

# TEST REPORT

**Report No.:** 8429EU011208W4

**Applicant:** GuangZhou MengBian Technology Co., Ltd.

**Address:** Unit L3A01-4, No. 31-6, Xicha Road, Baiyun District,  
Guangzhou City, Guangdong Province, 510000 China

**Product Name:** AI Stickee Printer

**Model No.:** SP01 (refer to clause 2.4)

**Trademark:** Munbyn

**FCC ID:** 2BU8Y-SP01

**Test Standard(s):** 47 CFR Part 15E

**Test Result:** Pass

**Date of Receipt:** Mar. 12, 2026

**Test Date:** Mar. 13, 2026 - Jun. 09, 2026

**Date of Issue:** Jun. 29, 2026

**ISSUED BY:**

SHENZHEN EU TESTING LABORATORY LIMITED



**Prepared by:**



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**Reviewed and Approved by:**



Sally Zhang/ Manager

### Revision Record

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|                |               |             |        |
|                |               |             |        |



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## 2 General Information

### 2.1 Applicant Information

|           |                                                                                                       |
|-----------|-------------------------------------------------------------------------------------------------------|
| Applicant | GuangZhou MengBian Technology Co., Ltd.                                                               |
| Address   | Unit L3A01-4, No. 31-6, Xicha Road, Baiyun District, Guangzhou City, Guangdong Province, 510000 China |

### 2.2 Manufacturer Information

|              |                                                                                                       |
|--------------|-------------------------------------------------------------------------------------------------------|
| Manufacturer | GuangZhou MengBian Technology Co., Ltd.                                                               |
| Address      | Unit L3A01-4, No. 31-6, Xicha Road, Baiyun District, Guangzhou City, Guangdong Province, 510000 China |

### 2.3 Factory Information

|         |                                                                                                       |
|---------|-------------------------------------------------------------------------------------------------------|
| Factory | GuangZhou MengBian Technology Co., Ltd.                                                               |
| Address | Unit L3A01-4, No. 31-6, Xicha Road, Baiyun District, Guangzhou City, Guangdong Province, 510000 China |

### 2.4 General Description of E.U.T.

|                                      |                                                                                                                                                                                   |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name                         | AI Stickee Printer                                                                                                                                                                |
| Model No. Under Test                 | SP01                                                                                                                                                                              |
| List Model No.                       | SP01s, SP01c, SP02, SP02 Pro, SP02 Max                                                                                                                                            |
| Description of Model differentiation | All models are same with electrical parameters and internal circuit structure, but only differ in appearance color and model name.<br>(this information provided by the customer) |
| Rating(s)                            | Input: 9.0V === 2.0A (Adapter Input: 100-240V~, 50/60Hz, 1.5A; Output: 9.0V === 2.0A, 18.0W)                                                                                      |
| Adapter                              | Model No.: ABT020090DUS<br>Input: 100-240V~, 50/60Hz, 1.5A<br>Output: 9.0V === 2.0A, 18.0W<br>Manufacturer: Guangdong ABT Industrial Co., Ltd.                                    |
| Product Type                         | <input checked="" type="checkbox"/> Mobile<br><input type="checkbox"/> Portable<br><input type="checkbox"/> Fix Location                                                          |
| Test Sample No.                      | 8429EU011208W-1/2(Normal), 8429EU011208W-2/2(Engineering)                                                                                                                         |
| Hardware Version                     | SP01_V2.00                                                                                                                                                                        |
| Software Version                     | v1.0.0.1                                                                                                                                                                          |
| Remark                               | For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.                                                                 |

## 2.5 Technical Information of E.U.T.

|                                   |                                                                                                                                                                                 |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network and Wireless Connectivity | Bluetooth (BDR+EDR+BLE)<br>WiFi 2.4G: 802.11b, 802.11g, 802.11n(HT20/40), 802.11ax(HEW20)<br>WiFi 5G: 802.11a, 802.11n(HT20/40), 802.11ac(VHT20), 802.11ax (HEW20)<br>U-NII-1/3 |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

The requirement for the following technical information of the EUT was tested in this report:

|                     |                                                                                                                                                                                                             |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Technology          | WiFi 5G                                                                                                                                                                                                     |
| Operation Mode      | a, n(HT20/40), ac(VHT20), ax(HEW20)                                                                                                                                                                         |
| Operating Frequency | U-NII-1: 5150 MHz to 5250 MHz<br>U-NII-3: 5725 MHz to 5850 MHz                                                                                                                                              |
| Modulation Type     | 802.11a: OFDM(BPSK, QPSK, 16QAM, 64QAM);<br>802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM);<br>802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM);<br>802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM). |
| Number of Channels  | 802.11a/n(HT20)/ac(VHT20)/ax(HWE20):<br>U-NII Band 1: 4;<br>U-NII Band 3: 5;<br>802.11n(HT40)):<br>U-NII Band 1: 2;<br>U-NII Band 3: 2;                                                                     |
| Antenna Type        | FPC Antenna                                                                                                                                                                                                 |
| Antenna Gain(Peak)  | 6.44 dBi                                                                                                                                                                                                    |
| Remark              | The above information are declared by the applicant, EU-LAB is not responsible for the information accuracy provided by the applicant.                                                                      |

All channels were listed on the following table:

| U-NII-1    |                 |            |                 |
|------------|-----------------|------------|-----------------|
| Bandwidth: | 20MHz           | Bandwidth: | 40MHz           |
| Channel    | Frequency (MHz) | Channel    | Frequency (MHz) |
| 36         | 5180            | 38         | 5190            |
| 40         | 5200            | 46         | 5230            |
| 44         | 5220            | /          | /               |
| 48         | 5240            | /          | /               |
| U-NII-3    |                 |            |                 |
| Bandwidth: | 20MHz           | Bandwidth: | 40MHz           |
| Channel    | Frequency (MHz) | Channel    | Frequency (MHz) |
| 149        | 5745            | 151        | 5755            |
| 153        | 5765            | 159        | 5795            |
| 157        | 5785            | /          | /               |
| 161        | 5805            | /          | /               |
| 165        | 5825            | /          | /               |

| 802.11ax RU configuration table |              |       |       |        |        |        |
|---------------------------------|--------------|-------|-------|--------|--------|--------|
| Mode                            | Full RU (SU) | RU_26 | RU_52 | RU_106 | RU_242 | RU_484 |
| 802.11ax(HEW20)                 | √            | --    | --    | --     | --     | --     |



### 3 Test Summary

#### 3.1 Test Standard

The tests were performed according to following standards:

**47 CFR Part 15E:** Unlicensed National Information Infrastructure Devices

Remark:

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the emission/immunity should be checked to ensure compliance has been maintained.

#### 3.2 Test Verdict

| Test Items                                | Standard        | Method                                                                     | Requirement                                                                                                                                                 | Results |
|-------------------------------------------|-----------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Antenna requirement                       | 47 CFR Part 15E | ---                                                                        | Part 15.203                                                                                                                                                 | Pass    |
| Conducted Emission at AC power line       | 47 CFR Part 15E | ANSI C63.10-2020+Cor.1-2023 section 6.2                                    | 47 CFR Part 15.207(a)                                                                                                                                       | Pass    |
| Duty Cycle                                | 47 CFR Part 15E | ANSI C63.10-2020+Cor.1-2023 section 12.2 (b)                               | ---                                                                                                                                                         | Pass    |
| Emission bandwidth and occupied bandwidth | 47 CFR Part 15E | ANSI C63.10-2020+Cor.1-2023, section 6.9 & 12.5 KDB 789033 D02, Clause C.2 | U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.<br>47 CFR Part 15.407(e)                                                                       | Pass    |
| Maximum conducted output power            | 47 CFR Part 15E | ANSI C63.10-2020+Cor.1-2023, section 12.4                                  | 47 CFR Part 15.407(a)(1)(i)<br>47 CFR Part 15.407(a)(1)(ii)<br>47 CFR Part 15.407(a)(1)(iii)<br>47 CFR Part 15.407(a)(1)(iv)<br>47 CFR Part 15.407(a)(3)(i) | Pass    |
| Power spectral density                    | 47 CFR Part 15E | ANSI C63.10-2020+Cor.1-2023, section 12.6                                  | 47 CFR Part 15.407(a)(1)(i)<br>47 CFR Part 15.407(a)(1)(ii)<br>47 CFR Part 15.407(a)(1)(iii)<br>47 CFR Part 15.407(a)(1)(iv)<br>47 CFR Part 15.407(a)(3)(i) | Pass    |
| Frequency stability                       | 47 CFR Part 15E | ANSI C63.10-2020+Cor.1-2023, section 6.8                                   | 47 CFR Part 15.407(g)                                                                                                                                       | Pass    |
| Band edge emissions (Conducted)           | 47 CFR Part 15E | ANSI C63.10-2020+Cor.1-2023, section 12.7.4, 12.7.6, 12.7.7                | 47 CFR Part 15.407(b)(1)<br>47 CFR Part 15.407(b)(4)<br>47 CFR Part                                                                                         | Pass    |

|                                                                               |                 |                                                                   |                                                                                            |      |
|-------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------|
|                                                                               |                 |                                                                   | 15.407(b)(10)                                                                              |      |
| Band edge emissions<br>(Radiated)                                             | 47 CFR Part 15E | ANSI C63.10-2020+Cor.1-2023,<br>section 12.7.4,<br>12.7.6, 12.7.7 | 47 CFR Part<br>15.407(b)(1)<br>47 CFR Part<br>15.407(b)(4)<br>47 CFR Part<br>15.407(b)(10) | Pass |
| Undesirable emission<br>limits (below 1GHz)                                   | 47 CFR Part 15E | ANSI C63.10-2020+Cor.1-2023,<br>section 12.7.4,<br>12.7.5         | 47 CFR Part<br>15.407(b)(9)                                                                | Pass |
| Undesirable emission<br>limits (above 1GHz)                                   | 47 CFR Part 15E | ANSI C63.10-2020+Cor.1-2023,<br>section 12.7.4,<br>12.7.6, 12.7.7 | 47 CFR Part<br>15.407(b)(1)<br>47 CFR Part<br>15.407(b)(4)<br>47 CFR Part<br>15.407(b)(10) | Pass |
| <b>Note:</b><br>(1) "N/A" denotes test is not applicable in this Test Report. |                 |                                                                   |                                                                                            |      |

### 3.3 Test Laboratory

|                               |                                                                                                                        |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Test Laboratory               | Shenzhen EU Testing Laboratory Limited                                                                                 |
| Address                       | 101, Building B1, Fuqiao Fourth Area, Qiaotou Community, Fuhai Subdistrict, Baoan District, Shenzhen, Guangdong, China |
| Designation Number            | CN1368                                                                                                                 |
| Test Firm Registration Number | 952583                                                                                                                 |

## 4 Test Configuration

### 4.1 Test Environment

During the measurement, the normal environmental conditions were within the listed ranges:

|                            |                         |                          |
|----------------------------|-------------------------|--------------------------|
| Relative Humidity          | 30% to 60%              |                          |
| Atmospheric Pressure       | 86 kPa to 106 kPa       |                          |
| Temperature                | NT (Normal Temperature) | +15℃ to +35℃             |
| Working Voltage of the EUT | NV (Normal Voltage)     | 120VAC, 60Hz for adapter |

### 4.2 Test Equipment

| Conducted Emission at AC power line |                 |          |           |            |              |
|-------------------------------------|-----------------|----------|-----------|------------|--------------|
| Equipment                           | Manufacturer    | Model No | Serial No | Cal Date   | Cal Due Date |
| Test Software                       | Farad           | EZ-EMC   | EE-014    | /          | /            |
| EMI Test Receiver                   | Rohde & Schwarz | ESCI     | EE-005    | 2026-01-07 | 2027-01-06   |
| L.I.S.N. Artificial Mains Network   | Rohde & Schwarz | ENV216   | EE-004    | 2026-01-07 | 2027-01-06   |

| Frequency stability<br>Band edge emissions (Conducted)<br>Duty Cycle<br>Emission bandwidth and occupied bandwidth<br>Maximum conducted output power<br>Power spectral density |                 |              |           |            |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------|-----------|------------|--------------|
| Equipment                                                                                                                                                                     | Manufacturer    | Model No     | Serial No | Cal Date   | Cal Due Date |
| MXA Signal Analyzer                                                                                                                                                           | Agilent         | N9020A       | EE-011    | 2026-01-07 | 2027-01-06   |
| MXG RF Vector Signal Generator                                                                                                                                                | Agilent         | N5182A       | EE-012    | 2026-01-07 | 2027-01-06   |
| MIMO Power Measurement Module                                                                                                                                                 | TSTPASS         | TSPS 2023R   | EE-016    | 2026-01-07 | 2027-01-06   |
| Wideband Radio Communication Tester                                                                                                                                           | ROHDE & SCHWARZ | CMW500       | EE-402    | 2026-02-13 | 2027-02-12   |
| MXG RF Analog Signal Generator                                                                                                                                                | Agilent         | N5181A       | EE-406    | 2026-02-13 | 2027-02-12   |
| Power Meter                                                                                                                                                                   | Anritsu         | ML2495A      | EE-416    | 2026-02-13 | 2027-02-12   |
| Constant Temperature Humidity Chamber                                                                                                                                         | Guangxin        | GXP-401      | ES-002    | 2025-07-29 | 2026-07-28   |
| RF Test Software                                                                                                                                                              | TSTPASS         | TS32893 V2.0 | EE-017    | /          | /            |

| <b>Band edge emissions (Radiated)</b>           |                     |                 |                  |                 |                     |
|-------------------------------------------------|---------------------|-----------------|------------------|-----------------|---------------------|
| <b>Undesirable emission limits (above 1GHz)</b> |                     |                 |                  |                 |                     |
| <b>Equipment</b>                                | <b>Manufacturer</b> | <b>Model No</b> | <b>Serial No</b> | <b>Cal Date</b> | <b>Cal Due Date</b> |
| EMI Test Receiver                               | ROHDE & SCHWARZ     | ESPI            | EE-006           | 2026-01-07      | 2027-01-06          |
| Double Ridged Horn Antenna                      | A-INFOMW            | LB-10180-NF     | EE-008           | 2026-01-11      | 2029-01-10          |
| Pre-amplifier                                   | Agilent             | 8449B           | EE-010           | 2026-01-07      | 2027-01-06          |
| MXG RF Vector Signal Generator                  | Agilent             | N5182A          | EE-012           | 2026-01-07      | 2027-01-06          |
| DRG Horn Antenna                                | SCHWARZBECK         | BBHA 9170       | EE-410           | 2026-02-13      | 2027-02-12          |
| Loop Antenna                                    | TESEQ               | HLA6121         | EE-403           | 2026-02-13      | 2027-02-12          |
| Pre-amplifier                                   | SKET                | LNPA-1840-50    | EE-411           | 2026-02-13      | 2027-02-12          |
| Test Software                                   | Farad               | EZ-EMC          | EE-015           | /               | /                   |

| <b>Undesirable emission limits (below 1GHz)</b> |                     |                 |                  |                 |                     |
|-------------------------------------------------|---------------------|-----------------|------------------|-----------------|---------------------|
| <b>Equipment</b>                                | <b>Manufacturer</b> | <b>Model No</b> | <b>Serial No</b> | <b>Cal Date</b> | <b>Cal Due Date</b> |
| EMI Test Receiver                               | ROHDE & SCHWARZ     | ESPI            | EE-006           | 2026-01-07      | 2027-01-06          |
| Bilog Broadband Antenna                         | SCHWARZBECK         | VULB 9163       | EE-007           | 2026-01-13      | 2029-01-12          |
| Pre-amplifier                                   | Agilent             | 8447D           | EE-009           | 2026-01-07      | 2027-01-06          |
| MXA Signal Analyzer                             | Agilent             | N9020A          | EE-011           | 2026-01-07      | 2027-01-06          |
| Test Software                                   | Farad               | EZ-EMC          | EE-015           | /               | /                   |

### 4.3 Description of Support Unit

| No. | Title   | Manufacturer        | Model No.           | Serial No. |
|-----|---------|---------------------|---------------------|------------|
| 1   | Adapter | refer to clause 2.4 | refer to clause 2.4 | --         |

### 4.4 Test Mode

| No. | Test Modes           | Description                                        |
|-----|----------------------|----------------------------------------------------|
| TM1 | 802.11a Mode         | Keep the EUT in 802.11a transmitting mode.         |
| TM2 | 802.11n(HT20) Mode   | Keep the EUT in 802.11n(HT20) transmitting mode.   |
| TM3 | 802.11n(HT40) Mode   | Keep the EUT in 802.11n(HT40)transmitting mode.    |
| TM4 | 802.11ac(VHT20) Mode | Keep the EUT in 802.11ac(VHT20) transmitting mode. |
| TM5 | 802.11ax(HEW20) Mode | Keep the EUT in 802.11ax(HEW20) transmitting mode. |

### 4.5 Description of Calculation

#### 4.5.1 Field Strength Calculation

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

$$FS \text{ (dBuV/m)} = RA \text{ (dBuV)} + AF \text{ (dB/m)} + CL \text{ (dB)} - AG \text{ (dB)}$$

|                           |                                            |
|---------------------------|--------------------------------------------|
| Where FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| RA = Reading Amplitude    | AG = Amplifier Gain                        |
| AF = Antenna Factor       |                                            |

#### 4.5.2 Disturbance Calculation

The AC mains conducted disturbance is calculated by adding the 10dB Pulse Limiter and Cable Factor and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$CD \text{ (dBuV)} = RA \text{ (dBuV)} + PL \text{ (dB)} + CL \text{ (dB)}$$

|                                  |                                            |
|----------------------------------|--------------------------------------------|
| Where CD = Conducted Disturbance | CL = Cable Attenuation Factor (Cable Loss) |
| RA = Reading Amplitude           | PL = 10 dB Pulse Limiter Factor            |

#### 4.6 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

| Test Item                         | Measurement Uncertainty                              |
|-----------------------------------|------------------------------------------------------|
| Conducted Emission                | 2.64 dB                                              |
| Time of Occupancy (Dwell Time)    | 1.8 %                                                |
| Occupied Channel Bandwidth        | 70 kHz                                               |
| RF output power, conducted        | 1.04 dB                                              |
| Power Spectral Density, conducted | 0.91 dB                                              |
| Unwanted Emissions, conducted     | 2.72 dB                                              |
| Radiated Emission (1GHz- 18GHz)   | Ur = 3.50 dB (Horizontal)<br>Ur = 3.50 dB (Vertical) |
| Radiated Emission (9kHz- 30MHz)   | Ur = 2.50 dB                                         |
| Radiated Emission (30MHz- 1GHz)   | Ur = 2.70 dB (Horizontal)<br>Ur = 2.70 dB (Vertical) |
| Radiated Emission (18GHz- 40GHz)  | Ur = 5.15 dB (Horizontal)<br>Ur = 5.24 dB (Vertical) |

#### 4.7 Deviation from Standards

None

#### 4.8 Abnormalities from Standard Condition

None

## 5 Evaluation Results (Evaluation)

### 5.1 Antenna requirement

#### 5.1.1 Test Specification

|                   |                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. |
| Test Method:      | ---                                                                                                                                                                                                                                                                                                                                                                                 |

#### 5.1.2 Test Data

**PASS.**

The Antenna Anti-Replacement as following method:

| Protected Method                        | Description                            |
|-----------------------------------------|----------------------------------------|
| The antenna is embedded in the product. | An embedded-in antenna-design is used. |

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

## 6 Radio Spectrum Matter Test Results (RF)

## 6.1 Conducted Emission at AC power line

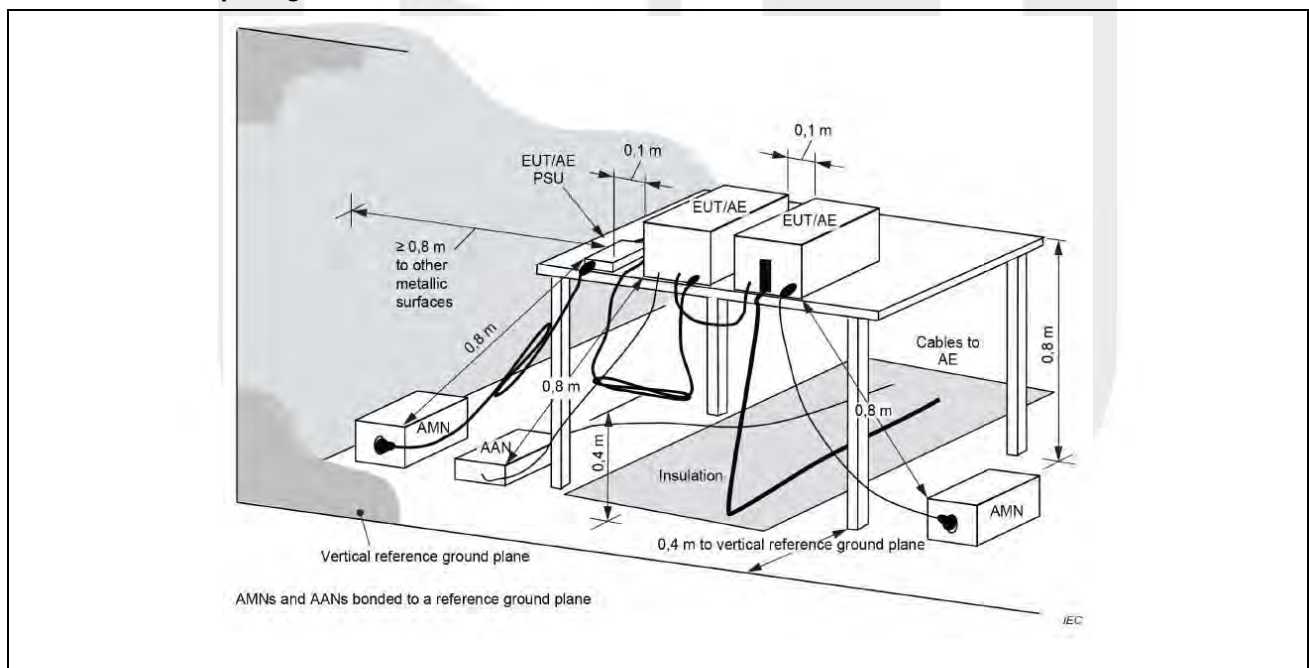
### 6.1.1 Test Specification

|                   |                                                 |                        |           |
|-------------------|-------------------------------------------------|------------------------|-----------|
| Test Requirement: | 47 CFR Part 15.207(a)                           |                        |           |
| Test Limit:       | Frequency of emission (MHz)                     | Conducted limit (dBµV) |           |
|                   |                                                 | Quasi-peak             | Average   |
|                   | 0.15-0.5                                        | 66 to 56*              | 56 to 46* |
|                   | 0.5-5                                           | 56                     | 46        |
|                   | 5-30                                            | 60                     | 50        |
|                   | *Decreases with the logarithm of the frequency. |                        |           |
| Test Method:      | ANSI C63.10-2020+Cor.1-2023 section 6.2         |                        |           |

### 6.1.2 E.U.T. Operation

|                  |                         |
|------------------|-------------------------|
| Pre test mode:   | TM1, TM2, TM3, TM4, TM5 |
| Final test mode: | TM1, TM2, TM3, TM4, TM5 |

### 6.1.3 Test Setup Diagram



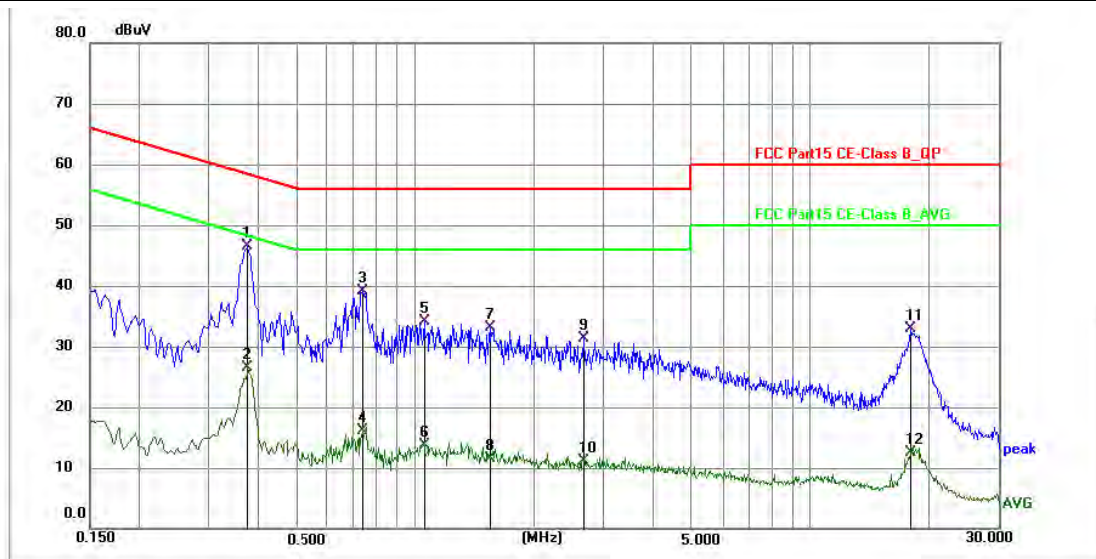
### 6.1.4 Test Data

**PASS.**

Only the worst case data was showed in the report, please to see the following pages.

## Conducted Emission at AC power line Test Data

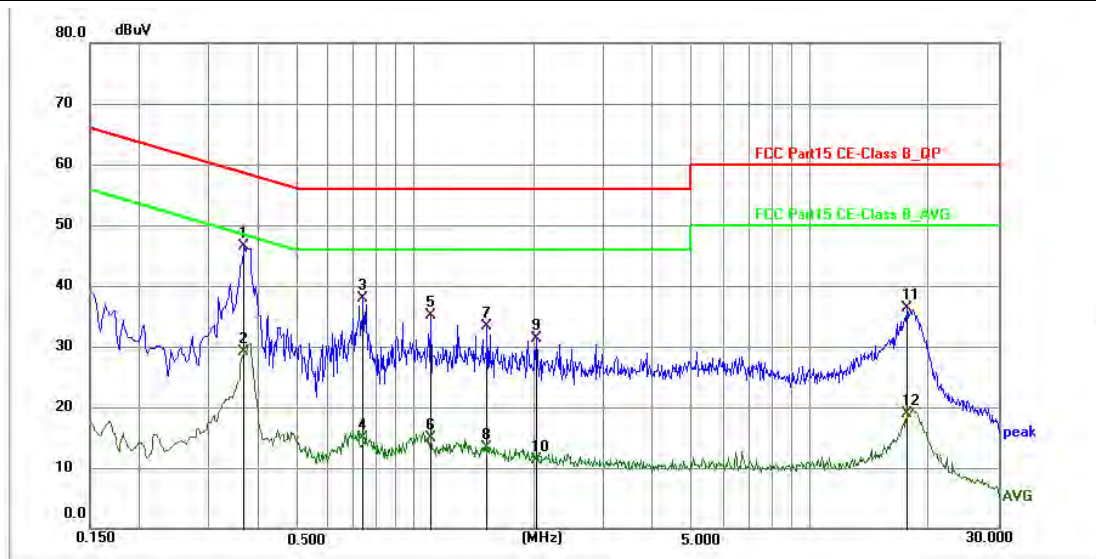
TM1 / Line: Line / Band: 5150-5250 MHz / BW: 20 / CH: L



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1 * | 0.3751          | 36.41          | 10.01       | 46.42        | 58.39        | -11.97      | QP       | P   |        |
| 2   | 0.3751          | 16.49          | 10.01       | 26.50        | 48.39        | -21.89      | AVG      | P   |        |
| 3   | 0.7391          | 29.05          | 10.04       | 39.09        | 56.00        | -16.91      | QP       | P   |        |
| 4   | 0.7391          | 6.11           | 10.04       | 16.15        | 46.00        | -29.85      | AVG      | P   |        |
| 5   | 1.0541          | 24.03          | 10.04       | 34.07        | 56.00        | -21.93      | QP       | P   |        |
| 6   | 1.0541          | 3.66           | 10.04       | 13.70        | 46.00        | -32.30      | AVG      | P   |        |
| 7   | 1.5518          | 23.07          | 10.03       | 33.10        | 56.00        | -22.90      | QP       | P   |        |
| 8   | 1.5518          | 1.56           | 10.03       | 11.59        | 46.00        | -34.41      | AVG      | P   |        |
| 9   | 2.6641          | 21.19          | 10.05       | 31.24        | 56.00        | -24.76      | QP       | P   |        |
| 10  | 2.6641          | 1.10           | 10.05       | 11.15        | 46.00        | -34.85      | AVG      | P   |        |
| 11  | 17.9441         | 22.81          | 10.03       | 32.84        | 60.00        | -27.16      | QP       | P   |        |
| 12  | 17.9441         | 2.43           | 10.03       | 12.46        | 50.00        | -37.54      | AVG      | P   |        |

### Conducted Emission at AC power line Test Data

TM1 / Line: Neutral / Band: 5150-5250 MHz / BW: 20 / CH: L



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1 * | 0.3660          | 36.43          | 10.04       | 46.47        | 58.59        | -12.12      | QP       | P   |        |
| 2   | 0.3660          | 19.07          | 10.04       | 29.11        | 48.59        | -19.48      | AVG      | P   |        |
| 3   | 0.7395          | 27.79          | 10.06       | 37.85        | 56.00        | -18.15      | QP       | P   |        |
| 4   | 0.7395          | 4.92           | 10.06       | 14.98        | 46.00        | -31.02      | AVG      | P   |        |
| 5   | 1.0950          | 25.09          | 10.06       | 35.15        | 56.00        | -20.85      | QP       | P   |        |
| 6   | 1.0950          | 4.78           | 10.06       | 14.84        | 46.00        | -31.16      | AVG      | P   |        |
| 7   | 1.5270          | 23.25          | 10.07       | 33.32        | 56.00        | -22.68      | QP       | P   |        |
| 8   | 1.5270          | 3.20           | 10.07       | 13.27        | 46.00        | -32.73      | AVG      | P   |        |
| 9   | 2.0264          | 21.18          | 10.07       | 31.25        | 56.00        | -24.75      | QP       | P   |        |
| 10  | 2.0264          | 1.18           | 10.07       | 11.25        | 46.00        | -34.75      | AVG      | P   |        |
| 11  | 17.5964         | 26.28          | 10.04       | 36.32        | 60.00        | -23.68      | QP       | P   |        |
| 12  | 17.5964         | 8.88           | 10.04       | 18.92        | 50.00        | -31.08      | AVG      | P   |        |

## 6.2 Duty Cycle

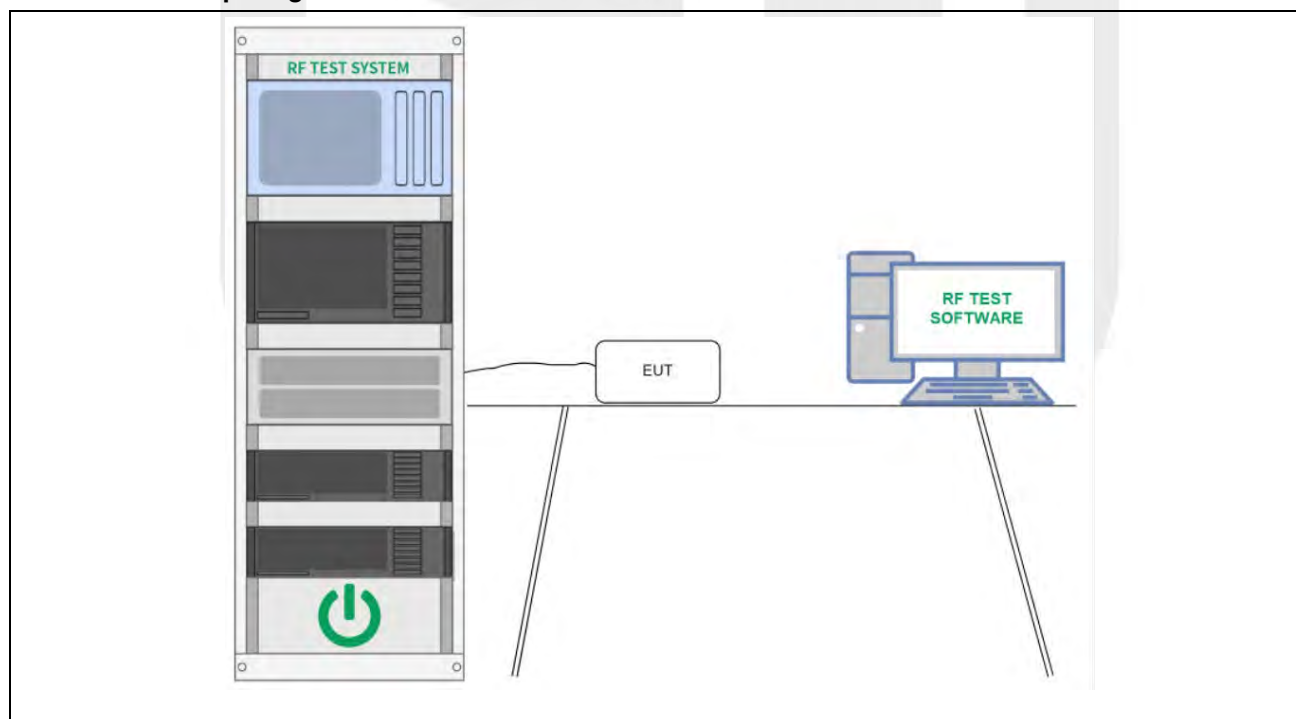
### 6.2.1 Test Specification

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | All measurements are to be performed with the EUT transmitting at 100% duty cycle at its maximum power control level; however, if 100% duty cycle cannot be achieved, measurements of duty cycle, $x$ , and maximum-power transmission duration, $T$ , are required for each tested mode of operation.                                                                                                                                                 |
| Test Limit:       | No limits, only for report use.                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Test Method:      | ANSI C63.10-2020+Cor.1-2023 section 12.2 (b)                                                                                                                                                                                                                                                                                                                                                                                                           |
| Procedure:        | i) Set the center frequency of the instrument to the center frequency of the transmission.<br>ii) Set RBW $\geq$ EBW if possible; otherwise, set RBW to the largest available value.<br>iii) Set VBW $\geq$ RBW.<br>iv) Set detector = peak.<br>v) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ , where $T$ is defined in item a1) of 12.2, and the number of sweep points across duration $T$ exceeds 100. |

### 6.2.2 E.U.T. Operation

|                  |                         |
|------------------|-------------------------|
| Pre test mode:   | TM1, TM2, TM3, TM4, TM5 |
| Final test mode: | TM1, TM2, TM3, TM4, TM5 |

### 6.2.3 Test Setup Diagram



### 6.2.4 Test Data

**PASS.**

Please refer to Annex D for details.

### 6.3 Emission bandwidth and occupied bandwidth

#### 6.3.1 Test Specification

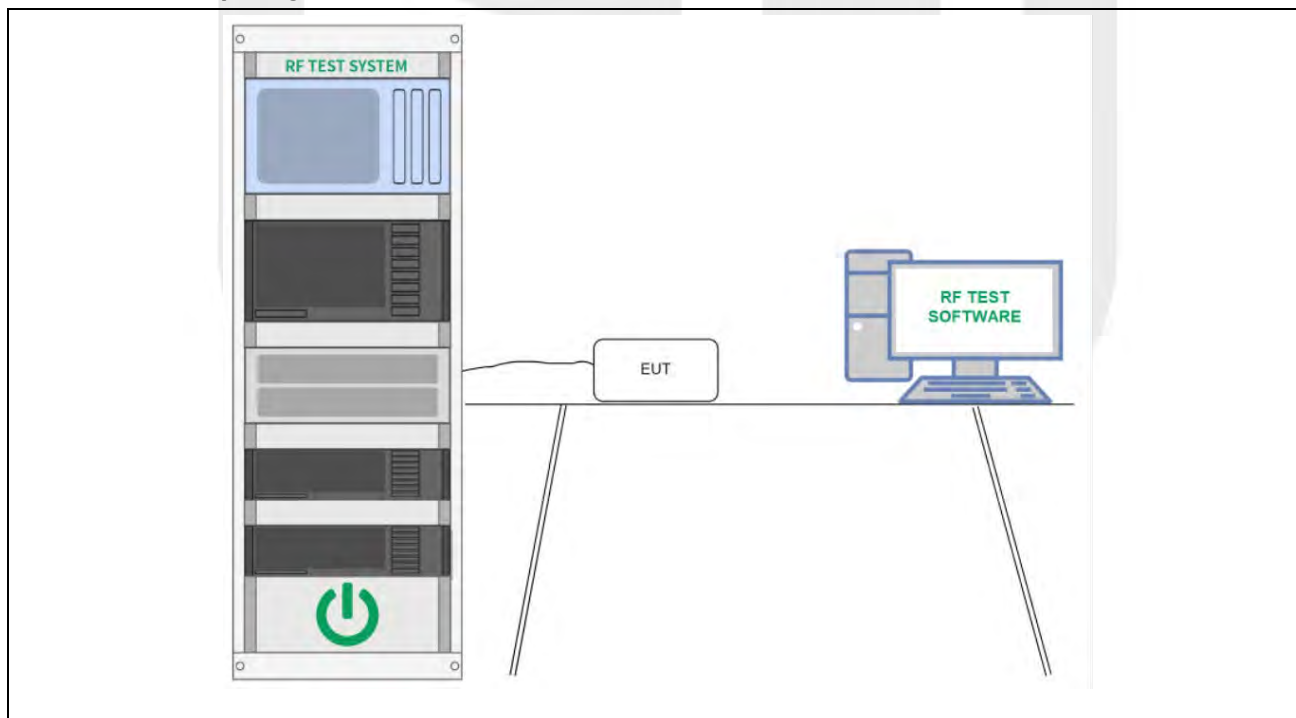
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.<br>U-NII 3, U-NII 4: 47 CFR Part 15.407(e)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Test Limit:       | U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.<br>U-NII 3, U-NII 4: Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Test Method:      | ANSI C63.10-2020+Cor.1-2023, section 6.9 & 12.5<br>KDB 789033 D02, Clause C.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Procedure:        | <p>Emission bandwidth:</p> <ol style="list-style-type: none"> <li>Set RBW = shall be in the range of 1% to 5% of the emission bandwidth.</li> <li>Set the VBW &gt; RBW.</li> <li>Detector = peak.</li> <li>Trace mode = max hold.</li> <li>Measure the maximum width of the emission that is 26 dB down from the peak of the emission.</li> </ol> <p>Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is in the range of 1% to 5%.</p> <p>Occupied bandwidth:</p> <ol style="list-style-type: none"> <li>The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.</li> <li>The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.</li> <li>Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than <math>[10 \log (OBW/RBW)]</math> below the reference level. Specific guidance is given in 4.1.5.2.</li> <li>Step a) through step c) might require iteration to adjust within the specified range.</li> <li>Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.</li> <li>Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.</li> <li>If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the</li> </ol> |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.</p> <p>h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).</p> <p>6 dB emission bandwidth:</p> <p>a) Set RBW = 100 kHz.</p> <p>b) Set the video bandwidth (VBW) <math>\geq 3 \times</math> RBW.</p> <p>c) Detector = Peak.</p> <p>d) Trace mode = max hold.</p> <p>e) Sweep = auto couple.</p> <p>f) Allow the trace to stabilize.</p> <p>g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.</p> |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 6.3.2 E.U.T. Operation

|                  |                         |
|------------------|-------------------------|
| Pre test mode:   | TM1, TM2, TM3, TM4, TM5 |
| Final test mode: | TM1, TM2, TM3, TM4, TM5 |

### 6.3.3 Test Setup Diagram



### 6.3.4 Test Data

**PASS.**

Please refer to Annex D for details.

## 6.4 Maximum conducted output power

### 6.4.1 Test Specification

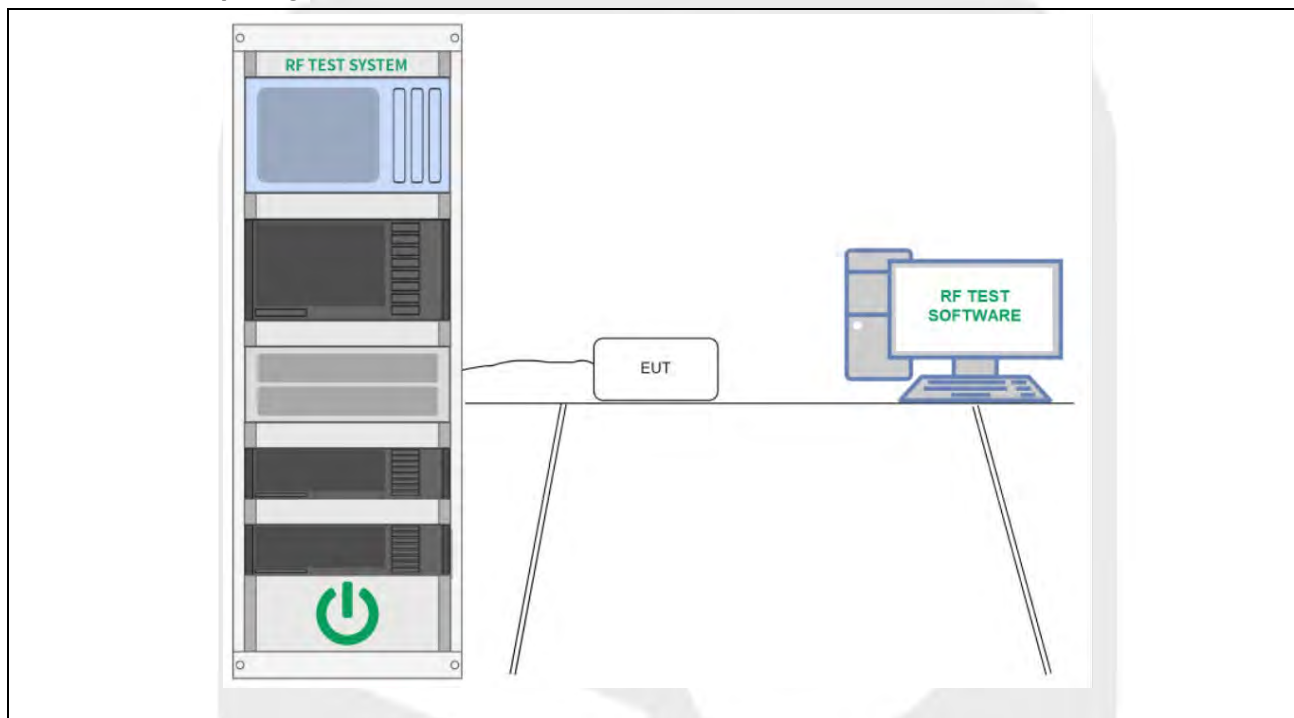
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR Part 15.407(a)(1)(i)<br>47 CFR Part 15.407(a)(1)(ii)<br>47 CFR Part 15.407(a)(1)(iii)<br>47 CFR Part 15.407(a)(1)(iv)<br>47 CFR Part 15.407(a)(3)(i)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Test Limit:       | <p>For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.<br/> If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power 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).</p> <p>For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.<br/> If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p> <p>For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.<br/> 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.<br/> 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 is required for each 1 dB of antenna gain in excess of 23 dBi.<br/> 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.</p> <p>For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi.<br/> If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p> <p>For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.<br/> If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.<br/> However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. 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</p> |

|              |                                                                                                                                                                        |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              | installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations. |
| Test Method: | ANSI C63.10-2020+Cor.1-2023, section 12.4                                                                                                                              |
| Procedure:   | Refer to ANSI C63.10-2020+Cor.1-2023 section 12.4                                                                                                                      |

#### 6.4.2 E.U.T. Operation

|                  |                         |
|------------------|-------------------------|
| Pre test mode:   | TM1, TM2, TM3, TM4, TM5 |
| Final test mode: | TM1, TM2, TM3, TM4, TM5 |

#### 6.4.3 Test Setup Diagram



#### 6.4.4 Test Data

**PASS.**

Please refer to Annex D for details.

## 6.5 Power spectral density

### 6.5.1 Test Specification

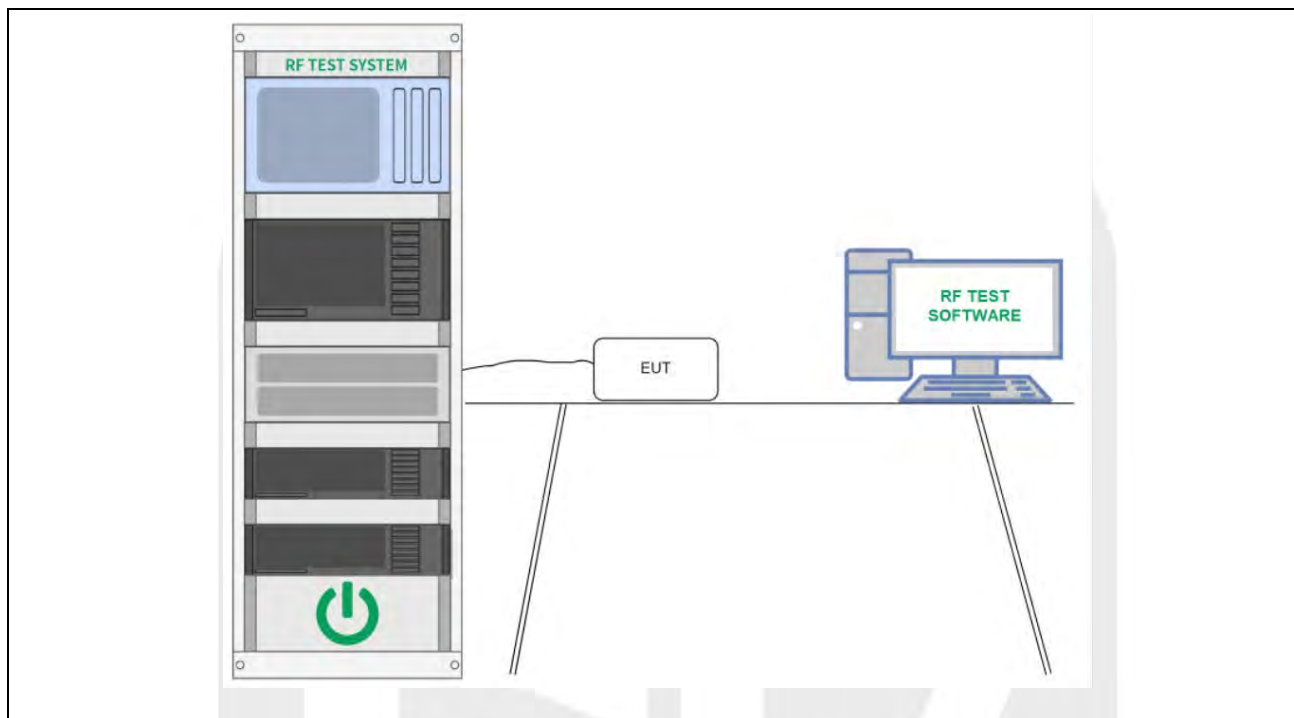
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR Part 15.407(a)(1)(i)<br>47 CFR Part 15.407(a)(1)(ii)<br>47 CFR Part 15.407(a)(1)(iii)<br>47 CFR Part 15.407(a)(1)(iv)<br>47 CFR Part 15.407(a)(3)(i)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Test Limit:       | <p>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, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p> <p>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, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p> <p>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.</p> <p>Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the 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 power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi.</p> <p>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.</p> <p>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.</p> <p>If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p> <p>For the band 5.725-5.850 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.</p> <p>If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power.</p> <p>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.</p> |
| Test Method:      | ANSI C63.10-2020+Cor.1-2023, section 12.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

|            |                                                    |
|------------|----------------------------------------------------|
| Procedure: | Refer to ANSI C63.10-2020+Cor.1-2023, section 12.6 |
|------------|----------------------------------------------------|

## 6.5.2 E.U.T. Operation

|                  |                         |
|------------------|-------------------------|
| Pre test mode:   | TM1, TM2, TM3, TM4, TM5 |
| Final test mode: | TM1, TM2, TM3, TM4, TM5 |

## 6.5.3 Test Setup Diagram



## 6.5.4 Test Data

**PASS.**

Please refer to Annex D for details.

## 6.6 Frequency stability

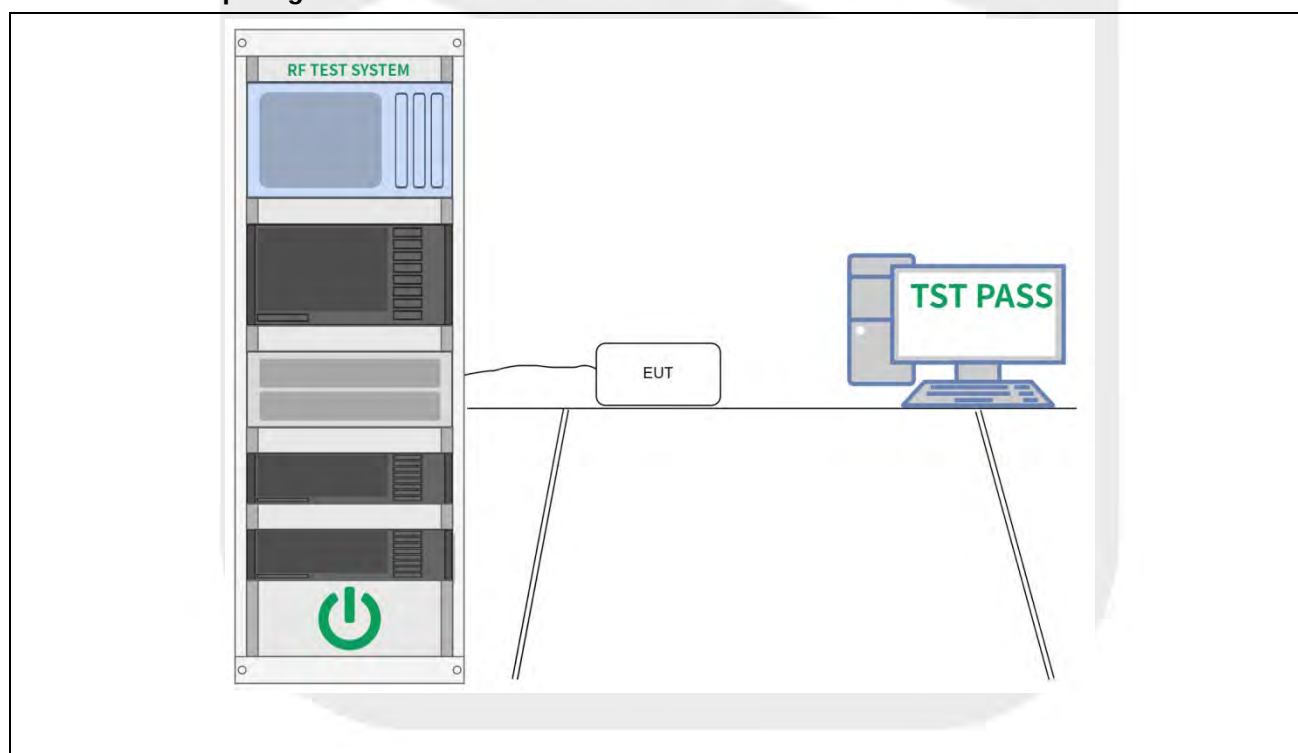
### 6.6.1 Test Specification

|                   |                                                                                                                                                                                                                             |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR Part 15.407(g)                                                                                                                                                                                                       |
| Test Limit:       | Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual. |
| Test Method:      | ANSI C63.10-2020+Cor.1-2023, section 6.8                                                                                                                                                                                    |
| Procedure:        | Refer to ANSI C63.10-2020+Cor.1-2023 section 6.8                                                                                                                                                                            |

### 6.6.2 E.U.T. Operation

|                  |                         |
|------------------|-------------------------|
| Pre test mode:   | TM1, TM2, TM3, TM4, TM5 |
| Final test mode: | TM1, TM2, TM3, TM4, TM5 |

### 6.6.3 Test Setup Diagram



### 6.6.4 Test Data

**PASS.**

Please refer to Annex D for details.

## 6.7 Band edge emissions (Conducted)

### 6.7.1 Test Specification

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                     |               |                  |  |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------|------------------|--|
| Test Requirement: | 47 CFR Part 15.407(b)(1)<br>47 CFR Part 15.407(b)(4)<br>47 CFR Part 15.407(b)(10)                                                                                                                                                                                                                                                                                                                                                                                                                 |                     |               |                  |  |
| Test Limit:       | For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.                                                                                                                                                                                                                                                                                                                                                |                     |               |                  |  |
|                   | For transmitters operating solely in the 5.725-5.850 GHz band:<br>All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. |                     |               |                  |  |
|                   | MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MHz                 | MHz           | GHz              |  |
|                   | 0.090-0.110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 16.42-16.423        | 399.9-410     | 4.5-5.15         |  |
|                   | <sup>1</sup> 0.495-0.505                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 16.69475-16.69525   | 608-614       | 5.35-5.46        |  |
|                   | 2.1735-2.1905                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 16.80425-16.80475   | 960-1240      | 7.25-7.75        |  |
|                   | 4.125-4.128                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 25.5-25.67          | 1300-1427     | 8.025-8.5        |  |
|                   | 4.17725-4.17775                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 37.5-38.25          | 1435-1626.5   | 9.0-9.2          |  |
|                   | 4.20725-4.20775                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 73-74.6             | 1645.5-1646.5 | 9.3-9.5          |  |
|                   | 6.215-6.218                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 74.8-75.2           | 1660-1710     | 10.6-12.7        |  |
|                   | 6.26775-6.26825                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 108-121.94          | 1718.8-1722.2 | 13.25-13.4       |  |
|                   | 6.31175-6.31225                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 123-138             | 2200-2300     | 14.47-14.5       |  |
|                   | 8.291-8.294                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 149.9-150.05        | 2310-2390     | 15.35-16.2       |  |
|                   | 8.362-8.366                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 156.52475-156.52525 | 2483.5-2500   | 17.7-21.4        |  |
|                   | 8.37625-8.38675                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 156.7-156.9         | 2690-2900     | 22.01-23.12      |  |
|                   | 8.41425-8.41475                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 162.0125-167.17     | 3260-3267     | 23.6-24.0        |  |
|                   | 12.29-12.293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 167.72-173.2        | 3332-3339     | 31.2-31.8        |  |
|                   | 12.51975-12.52025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 240-285             | 3345.8-3358   | 36.43-36.5       |  |
|                   | 12.57675-12.57725                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 322-335.4           | 3600-4400     | ( <sup>2</sup> ) |  |
|                   | 13.36-13.41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |               |                  |  |
|                   | <sup>1</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.                                                                                                                                                                                                                                                                                                                                                                                                               |                     |               |                  |  |
|                   | <sup>2</sup> Above 38.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     |               |                  |  |
|                   | The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in § 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in § 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in § 15.209 shall be demonstrated                                                                                                  |                     |               |                  |  |

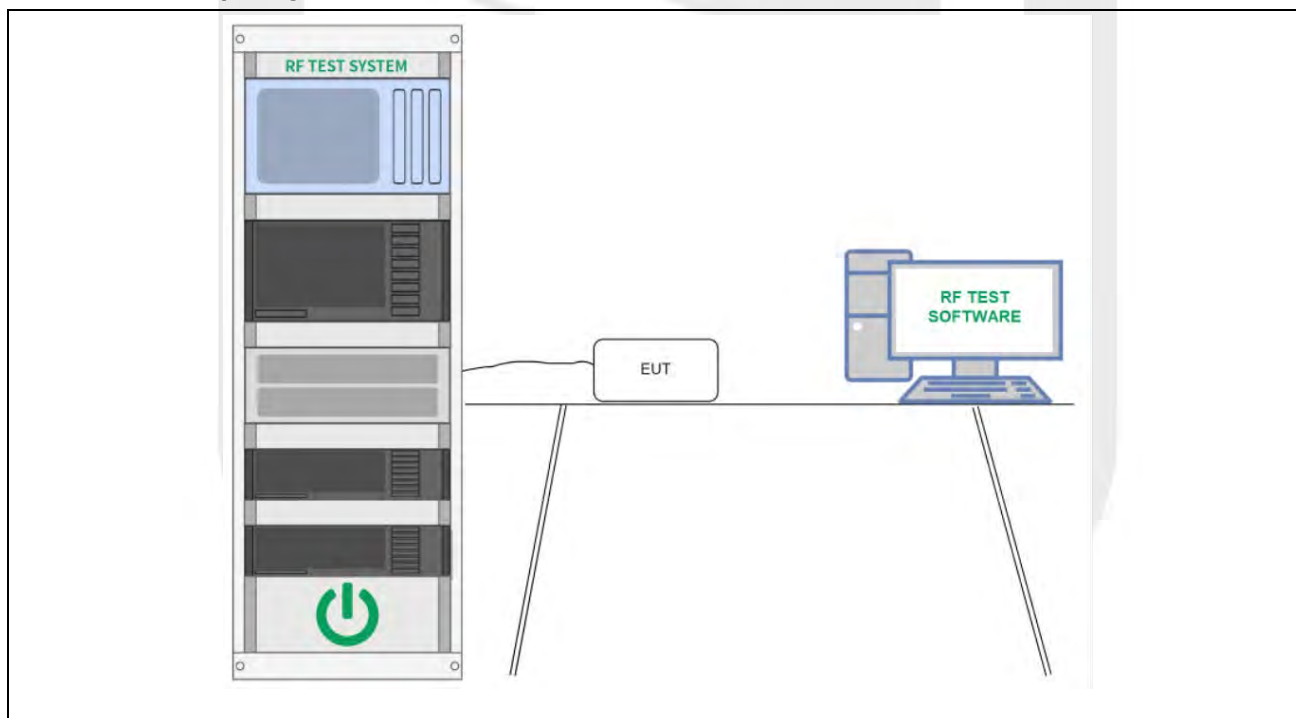
|                 | <p>based on the average value of the measured emissions. The provisions in § 15.35 apply to these measurements.</p> <p>Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:</p> <table><tr><th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr><tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr><tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr><tr><td>1.705-30.0</td><td>30</td><td>30</td></tr><tr><td>30-88</td><td>100 **</td><td>3</td></tr><tr><td>88-216</td><td>150 **</td><td>3</td></tr><tr><td>216-960</td><td>200 **</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>3</td></tr></table> <p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p>                                                                                                                                                                                                                                                                                                                              | Frequency (MHz)               | Field strength (microvolts/meter) | Measurement distance (meters) | 0.009-0.490 | 2400/F(kHz) | 300 | 0.490-1.705 | 24000/F(kHz) | 30 | 1.705-30.0 | 30 | 30 | 30-88 | 100 ** | 3 | 88-216 | 150 ** | 3 | 216-960 | 200 ** | 3 | Above 960 | 500 | 3 |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------|-------------------------------|-------------|-------------|-----|-------------|--------------|----|------------|----|----|-------|--------|---|--------|--------|---|---------|--------|---|-----------|-----|---|
| Frequency (MHz) | Field strength (microvolts/meter)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Measurement distance (meters) |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 0.009-0.490     | 2400/F(kHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 300                           |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 0.490-1.705     | 24000/F(kHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 30                            |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 1.705-30.0      | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 30                            |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 30-88           | 100 **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3                             |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 88-216          | 150 **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3                             |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 216-960         | 200 **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3                             |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| Above 960       | 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3                             |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| Test Method:    | ANSI C63.10-2020+Cor.1-2023, section 12.7.4, 12.7.6, 12.7.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                               |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| Procedure:      | <p>Above 1GHz:</p> <p>a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.</p> <p>g. Test the EUT in the lowest channel, the middle channel, the Highest channel.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>Remark:</p> <p>1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor</p> |                               |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.</p> <p>3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.</p> <p>4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.</p> |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 6.7.2 E.U.T. Operation

|                  |                         |
|------------------|-------------------------|
| Pre test mode:   | TM1, TM2, TM3, TM4, TM5 |
| Final test mode: | TM1, TM2, TM3, TM4, TM5 |

#### 6.7.3 Test Setup Diagram



#### 6.7.4 Test Data

**PASS.**

Please refer to Annex D for details.

## 6.8 Band edge emissions (Radiated)

### 6.8.1 Test Specification

| Test Requirement:        | 47 CFR Part 15.407(b)(1)<br>47 CFR Part 15.407(b)(4)<br>47 CFR Part 15.407(b)(10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |                  |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-----|-----|-----|-----|-------------|--------------|-----------|----------|--------------------------|-------------------|---------|-----------|---------------|-------------------|----------|-----------|-------------|------------|-----------|-----------|-----------------|------------|-------------|---------|-----------------|---------|---------------|---------|-------------|-----------|-----------|-----------|-----------------|------------|---------------|------------|-----------------|---------|-----------|------------|-------------|--------------|-----------|------------|-------------|---------------------|-------------|-----------|-----------------|-------------|-----------|-------------|-----------------|-----------------|-----------|-----------|--------------|--------------|-----------|-----------|-------------------|---------|-------------|------------|-------------------|-----------|-----------|------------------|-------------|--|--|--|
| Test Limit:              | <p>For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>For transmitters operating solely in the 5.725-5.850 GHz band:<br/> All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p> <table border="1"> <thead> <tr> <th>MHz</th><th>MHz</th><th>MHz</th><th>GHz</th></tr> </thead> <tbody> <tr> <td>0.090-0.110</td><td>16.42-16.423</td><td>399.9-410</td><td>4.5-5.15</td></tr> <tr> <td><sup>1</sup> 0.495-0.505</td><td>16.69475-16.69525</td><td>608-614</td><td>5.35-5.46</td></tr> <tr> <td>2.1735-2.1905</td><td>16.80425-16.80475</td><td>960-1240</td><td>7.25-7.75</td></tr> <tr> <td>4.125-4.128</td><td>25.5-25.67</td><td>1300-1427</td><td>8.025-8.5</td></tr> <tr> <td>4.17725-4.17775</td><td>37.5-38.25</td><td>1435-1626.5</td><td>9.0-9.2</td></tr> <tr> <td>4.20725-4.20775</td><td>73-74.6</td><td>1645.5-1646.5</td><td>9.3-9.5</td></tr> <tr> <td>6.215-6.218</td><td>74.8-75.2</td><td>1660-1710</td><td>10.6-12.7</td></tr> <tr> <td>6.26775-6.26825</td><td>108-121.94</td><td>1718.8-1722.2</td><td>13.25-13.4</td></tr> <tr> <td>6.31175-6.31225</td><td>123-138</td><td>2200-2300</td><td>14.47-14.5</td></tr> <tr> <td>8.291-8.294</td><td>149.9-150.05</td><td>2310-2390</td><td>15.35-16.2</td></tr> <tr> <td>8.362-8.366</td><td>156.52475-156.52525</td><td>2483.5-2500</td><td>17.7-21.4</td></tr> <tr> <td>8.37625-8.38675</td><td>156.7-156.9</td><td>2690-2900</td><td>22.01-23.12</td></tr> <tr> <td>8.41425-8.41475</td><td>162.0125-167.17</td><td>3260-3267</td><td>23.6-24.0</td></tr> <tr> <td>12.29-12.293</td><td>167.72-173.2</td><td>3332-3339</td><td>31.2-31.8</td></tr> <tr> <td>12.51975-12.52025</td><td>240-285</td><td>3345.8-3358</td><td>36.43-36.5</td></tr> <tr> <td>12.57675-12.57725</td><td>322-335.4</td><td>3600-4400</td><td>(<sup>2</sup>)</td></tr> <tr> <td>13.36-13.41</td><td></td><td></td><td></td></tr> </tbody> </table> <p><sup>1</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.</p> <p><sup>2</sup> Above 38.6</p> <p>The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in § 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in § 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in § 15.209 shall be demonstrated</p> |               |                  | MHz | MHz | MHz | GHz | 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 | <sup>1</sup> 0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 | 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 | 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 | 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 | 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 | 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 | 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25-13.4 | 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 | 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 | 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 | 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 | 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 | 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 | 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 | 12.57675-12.57725 | 322-335.4 | 3600-4400 | ( <sup>2</sup> ) | 13.36-13.41 |  |  |  |
| MHz                      | MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | MHz           | GHz              |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 0.090-0.110              | 16.42-16.423                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 399.9-410     | 4.5-5.15         |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| <sup>1</sup> 0.495-0.505 | 16.69475-16.69525                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 608-614       | 5.35-5.46        |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 2.1735-2.1905            | 16.80425-16.80475                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 960-1240      | 7.25-7.75        |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 4.125-4.128              | 25.5-25.67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1300-1427     | 8.025-8.5        |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 4.17725-4.17775          | 37.5-38.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1435-1626.5   | 9.0-9.2          |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 4.20725-4.20775          | 73-74.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1645.5-1646.5 | 9.3-9.5          |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 6.215-6.218              | 74.8-75.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1660-1710     | 10.6-12.7        |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 6.26775-6.26825          | 108-121.94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1718.8-1722.2 | 13.25-13.4       |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 6.31175-6.31225          | 123-138                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2200-2300     | 14.47-14.5       |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 8.291-8.294              | 149.9-150.05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2310-2390     | 15.35-16.2       |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 8.362-8.366              | 156.52475-156.52525                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2483.5-2500   | 17.7-21.4        |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 8.37625-8.38675          | 156.7-156.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2690-2900     | 22.01-23.12      |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 8.41425-8.41475          | 162.0125-167.17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3260-3267     | 23.6-24.0        |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 12.29-12.293             | 167.72-173.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3332-3339     | 31.2-31.8        |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 12.51975-12.52025        | 240-285                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3345.8-3358   | 36.43-36.5       |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 12.57675-12.57725        | 322-335.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3600-4400     | ( <sup>2</sup> ) |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 13.36-13.41              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |               |                  |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |

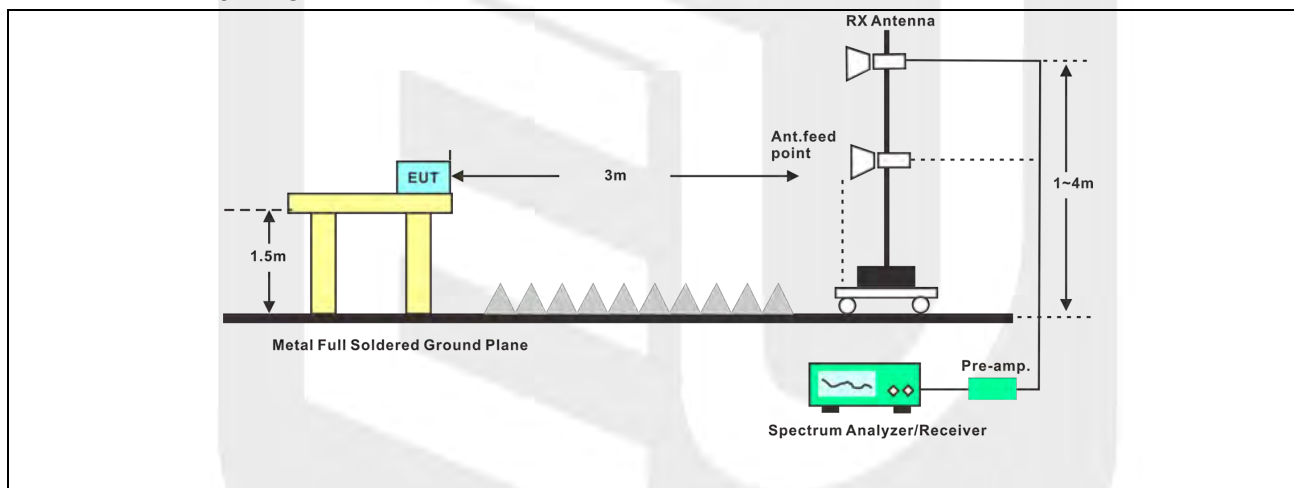
|                 | <p>based on the average value of the measured emissions. The provisions in § 15.35 apply to these measurements.</p> <p>Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:</p> <table><tr><th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr><tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr><tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr><tr><td>1.705-30.0</td><td>30</td><td>30</td></tr><tr><td>30-88</td><td>100 **</td><td>3</td></tr><tr><td>88-216</td><td>150 **</td><td>3</td></tr><tr><td>216-960</td><td>200 **</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>3</td></tr></table> <p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p>                                                                                                                                                                                                                                                                                                                              | Frequency (MHz)               | Field strength (microvolts/meter) | Measurement distance (meters) | 0.009-0.490 | 2400/F(kHz) | 300 | 0.490-1.705 | 24000/F(kHz) | 30 | 1.705-30.0 | 30 | 30 | 30-88 | 100 ** | 3 | 88-216 | 150 ** | 3 | 216-960 | 200 ** | 3 | Above 960 | 500 | 3 |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------|-------------------------------|-------------|-------------|-----|-------------|--------------|----|------------|----|----|-------|--------|---|--------|--------|---|---------|--------|---|-----------|-----|---|
| Frequency (MHz) | Field strength (microvolts/meter)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Measurement distance (meters) |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 0.009-0.490     | 2400/F(kHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 300                           |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 0.490-1.705     | 24000/F(kHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 30                            |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 1.705-30.0      | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 30                            |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 30-88           | 100 **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3                             |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 88-216          | 150 **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3                             |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 216-960         | 200 **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3                             |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| Above 960       | 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3                             |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| Test Method:    | ANSI C63.10-2020+Cor.1-2023, section 12.7.4, 12.7.6, 12.7.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                               |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| Procedure:      | <p>Above 1GHz:</p> <p>a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.</p> <p>g. Test the EUT in the lowest channel, the middle channel, the Highest channel.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>Remark:</p> <p>1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor</p> |                               |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.</p> <p>3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.</p> <p>4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.</p> |
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## 6.8.2 E.U.T. Operation

|                  |                         |
|------------------|-------------------------|
| Pre test mode:   | TM1, TM2, TM3, TM4, TM5 |
| Final test mode: | TM1, TM2, TM3, TM4, TM5 |

## 6.8.3 Test Setup Diagram



## 6.8.4 Test Data

PASS.

Please refer to the following pages.

**Band Edge Emissions Test Data:**
**U-NII-1:**

| Test Mode: 802.11a |                 |                |               |                         | CH Low: 5180 MHz |             |               |        |
|--------------------|-----------------|----------------|---------------|-------------------------|------------------|-------------|---------------|--------|
| Pol.               | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)   | Margin (dB) | Detector Type | Result |
| H                  | 5150.00         | 47.52          | 5.79          | 53.31                   | 68.23            | -14.93      | PK            | PASS   |
| H                  | 5350.00         | 44.39          | 6.45          | 50.84                   | 68.23            | -17.40      | PK            | PASS   |
| V                  | 5150.00         | 49.27          | 5.79          | 55.06                   | 68.23            | -13.18      | PK            | PASS   |
| V                  | 5350.00         | 44.85          | 6.45          | 51.30                   | 68.23            | -16.94      | PK            | PASS   |
| H                  | 5150.00         | 36.31          | 5.79          | 42.10                   | 54.00            | -11.90      | AV            | PASS   |
| H                  | 5350.00         | 33.54          | 6.45          | 39.99                   | 54.00            | -14.01      | AV            | PASS   |
| V                  | 5150.00         | 35.34          | 5.79          | 41.13                   | 54.00            | -12.88      | AV            | PASS   |
| V                  | 5350.00         | 31.12          | 6.45          | 37.57                   | 54.00            | -16.44      | AV            | PASS   |

| Test Mode: 802.11a |                 |                |               |                         | CH High: 5240 MHz |             |               |        |
|--------------------|-----------------|----------------|---------------|-------------------------|-------------------|-------------|---------------|--------|
| Pol.               | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)    | Margin (dB) | Detector Type | Result |
| H                  | 5150.00         | 47.29          | 5.79          | 53.08                   | 68.23             | -15.15      | PK            | PASS   |
| H                  | 5350.00         | 46.00          | 6.45          | 52.45                   | 68.23             | -15.79      | PK            | PASS   |
| V                  | 5150.00         | 48.67          | 5.79          | 54.46                   | 68.23             | -13.77      | PK            | PASS   |
| V                  | 5350.00         | 44.26          | 6.45          | 50.71                   | 68.23             | -17.53      | PK            | PASS   |
| H                  | 5150.00         | 34.17          | 5.79          | 39.96                   | 54.00             | -14.05      | AV            | PASS   |
| H                  | 5350.00         | 32.68          | 6.45          | 39.13                   | 54.00             | -14.87      | AV            | PASS   |
| V                  | 5150.00         | 35.77          | 5.79          | 41.56                   | 54.00             | -12.44      | AV            | PASS   |
| V                  | 5350.00         | 33.80          | 6.45          | 40.25                   | 54.00             | -13.75      | AV            | PASS   |

**Remark:**

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

**Band Edge Emissions Test Data:**
**U-NII-1:**

| Test Mode: 802.11n(HT20) |                 |                |               |                         | CH Low: 5180 MHz |             |               |        |
|--------------------------|-----------------|----------------|---------------|-------------------------|------------------|-------------|---------------|--------|
| Pol.                     | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)   | Margin (dB) | Detector Type | Result |
| H                        | 5150.00         | 48.18          | 5.79          | 53.97                   | 68.23            | -14.27      | PK            | PASS   |
| H                        | 5350.00         | 45.15          | 6.45          | 51.60                   | 68.23            | -16.63      | PK            | PASS   |
| V                        | 5150.00         | 48.26          | 5.79          | 54.05                   | 68.23            | -14.18      | PK            | PASS   |
| V                        | 5350.00         | 45.33          | 6.45          | 51.78                   | 68.23            | -16.46      | PK            | PASS   |
| H                        | 5150.00         | 36.02          | 5.79          | 41.81                   | 54.00            | -12.19      | AV            | PASS   |
| H                        | 5350.00         | 32.55          | 6.45          | 39.00                   | 54.00            | -15.00      | AV            | PASS   |
| V                        | 5150.00         | 35.12          | 5.79          | 40.91                   | 54.00            | -13.10      | AV            | PASS   |
| V                        | 5350.00         | 31.71          | 6.45          | 38.16                   | 54.00            | -15.84      | AV            | PASS   |

| Test Mode: 802.11n(HT20) |                 |                |               |                         | CH High: 5240 MHz |             |               |        |
|--------------------------|-----------------|----------------|---------------|-------------------------|-------------------|-------------|---------------|--------|
| Pol.                     | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)    | Margin (dB) | Detector Type | Result |
| H                        | 5150.00         | 48.28          | 5.79          | 54.07                   | 68.23             | -14.17      | PK            | PASS   |
| H                        | 5350.00         | 44.26          | 6.45          | 50.71                   | 68.23             | -17.53      | PK            | PASS   |
| V                        | 5150.00         | 47.21          | 5.79          | 53.00                   | 68.23             | -15.24      | PK            | PASS   |
| V                        | 5350.00         | 46.30          | 6.45          | 52.75                   | 68.23             | -15.48      | PK            | PASS   |
| H                        | 5150.00         | 35.10          | 5.79          | 40.89                   | 54.00             | -13.11      | AV            | PASS   |
| H                        | 5350.00         | 32.27          | 6.45          | 38.72                   | 54.00             | -15.28      | AV            | PASS   |
| V                        | 5150.00         | 35.71          | 5.79          | 41.50                   | 54.00             | -12.51      | AV            | PASS   |
| V                        | 5350.00         | 32.54          | 6.45          | 38.99                   | 54.00             | -15.01      | AV            | PASS   |

**Remark:**

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

**Band Edge Emissions Test Data:**
**U-NII-1:**

| Test Mode: 802.11n(HT40) |                 |                |               |                         | CH Low: 5190 MHz |             |               |        |
|--------------------------|-----------------|----------------|---------------|-------------------------|------------------|-------------|---------------|--------|
| Pol.                     | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)   | Margin (dB) | Detector Type | Result |
| H                        | 5150.00         | 48.26          | 5.79          | 54.05                   | 68.23            | -14.19      | PK            | PASS   |
| H                        | 5350.00         | 44.88          | 6.45          | 51.33                   | 68.23            | -16.91      | PK            | PASS   |
| V                        | 5150.00         | 49.86          | 5.79          | 55.65                   | 68.23            | -12.58      | PK            | PASS   |
| V                        | 5350.00         | 46.89          | 6.45          | 53.34                   | 68.23            | -14.90      | PK            | PASS   |
| H                        | 5150.00         | 34.48          | 5.79          | 40.27                   | 54.00            | -13.74      | AV            | PASS   |
| H                        | 5350.00         | 31.54          | 6.45          | 37.99                   | 54.00            | -16.01      | AV            | PASS   |
| V                        | 5150.00         | 36.84          | 5.79          | 42.63                   | 54.00            | -11.38      | AV            | PASS   |
| V                        | 5350.00         | 33.79          | 6.45          | 40.24                   | 54.00            | -13.76      | AV            | PASS   |

| Test Mode: 802.11n(HT40) |                 |                |               |                         | CH High: 5230 MHz |             |               |        |
|--------------------------|-----------------|----------------|---------------|-------------------------|-------------------|-------------|---------------|--------|
| Pol.                     | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)    | Margin (dB) | Detector Type | Result |
| H                        | 5150.00         | 48.08          | 5.79          | 53.87                   | 68.23             | -14.36      | PK            | PASS   |
| H                        | 5350.00         | 44.75          | 6.45          | 51.20                   | 68.23             | -17.04      | PK            | PASS   |
| V                        | 5150.00         | 47.49          | 5.79          | 53.28                   | 68.23             | -14.96      | PK            | PASS   |
| V                        | 5350.00         | 46.08          | 6.45          | 52.53                   | 68.23             | -15.70      | PK            | PASS   |
| H                        | 5150.00         | 35.70          | 5.79          | 41.49                   | 54.00             | -12.51      | AV            | PASS   |
| H                        | 5350.00         | 33.24          | 6.45          | 39.69                   | 54.00             | -14.31      | AV            | PASS   |
| V                        | 5150.00         | 35.68          | 5.79          | 41.47                   | 54.00             | -12.54      | AV            | PASS   |
| V                        | 5350.00         | 33.63          | 6.45          | 40.08                   | 54.00             | -13.93      | AV            | PASS   |

**Remark:**

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

**Band Edge Emissions Test Data:**
**U-NII-1:**

| Test Mode: 802.11ac(VHT20) |                 |                |               |                         | CH Low: 5180 MHz |             |               |        |
|----------------------------|-----------------|----------------|---------------|-------------------------|------------------|-------------|---------------|--------|
| Pol.                       | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)   | Margin (dB) | Detector Type | Result |
| H                          | 5150.00         | 49.83          | 5.79          | 55.62                   | 68.23            | -12.62      | PK            | PASS   |
| H                          | 5350.00         | 45.60          | 6.45          | 52.05                   | 68.23            | -16.19      | PK            | PASS   |
| V                          | 5150.00         | 47.22          | 5.79          | 53.01                   | 68.23            | -15.22      | PK            | PASS   |
| V                          | 5350.00         | 44.77          | 6.45          | 51.22                   | 68.23            | -17.01      | PK            | PASS   |
| H                          | 5150.00         | 35.07          | 5.79          | 40.86                   | 54.00            | -13.14      | AV            | PASS   |
| H                          | 5350.00         | 32.42          | 6.45          | 38.87                   | 54.00            | -15.14      | AV            | PASS   |
| V                          | 5150.00         | 35.60          | 5.79          | 41.39                   | 54.00            | -12.61      | AV            | PASS   |
| V                          | 5350.00         | 33.71          | 6.45          | 40.16                   | 54.00            | -13.84      | AV            | PASS   |

| Test Mode: 802.11ac(VHT20) |                 |                |               |                         | CH High: 5240 MHz |             |               |        |
|----------------------------|-----------------|----------------|---------------|-------------------------|-------------------|-------------|---------------|--------|
| Pol.                       | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)    | Margin (dB) | Detector Type | Result |
| H                          | 5150.00         | 49.60          | 5.79          | 55.39                   | 68.23             | -12.85      | PK            | PASS   |
| H                          | 5350.00         | 44.58          | 6.45          | 51.03                   | 68.23             | -17.20      | PK            | PASS   |
| V                          | 5150.00         | 47.36          | 5.79          | 53.15                   | 68.23             | -15.08      | PK            | PASS   |
| V                          | 5350.00         | 45.84          | 6.45          | 52.29                   | 68.23             | -15.94      | PK            | PASS   |
| H                          | 5150.00         | 34.04          | 5.79          | 39.83                   | 54.00             | -14.18      | AV            | PASS   |
| H                          | 5350.00         | 32.79          | 6.45          | 39.24                   | 54.00             | -14.77      | AV            | PASS   |
| V                          | 5150.00         | 34.88          | 5.79          | 40.67                   | 54.00             | -13.34      | AV            | PASS   |
| V                          | 5350.00         | 33.14          | 6.45          | 39.59                   | 54.00             | -14.41      | AV            | PASS   |

**Remark:**

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

**Band Edge Emissions Test Data:**
**U-NII-1:**

| Test Mode: 802.11ax(HEW20) |                 |                |               |                         | CH Low: 5180 MHz |             |               |        |
|----------------------------|-----------------|----------------|---------------|-------------------------|------------------|-------------|---------------|--------|
| Pol.                       | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)   | Margin (dB) | Detector Type | Result |
| H                          | 5150.00         | 48.36          | 5.79          | 54.15                   | 68.23            | -14.08      | PK            | PASS   |
| H                          | 5350.00         | 45.63          | 6.45          | 52.08                   | 68.23            | -16.15      | PK            | PASS   |
| V                          | 5150.00         | 48.30          | 5.79          | 54.09                   | 68.23            | -14.15      | PK            | PASS   |
| V                          | 5350.00         | 46.41          | 6.45          | 52.86                   | 68.23            | -15.37      | PK            | PASS   |
| H                          | 5150.00         | 36.15          | 5.79          | 41.94                   | 54.00            | -12.07      | AV            | PASS   |
| H                          | 5350.00         | 31.06          | 6.45          | 37.51                   | 54.00            | -16.49      | AV            | PASS   |
| V                          | 5150.00         | 36.90          | 5.79          | 42.69                   | 54.00            | -11.32      | AV            | PASS   |
| V                          | 5350.00         | 33.72          | 6.45          | 40.17                   | 54.00            | -13.84      | AV            | PASS   |

| Test Mode: 802.11ax(HEW20) |                 |                |               |                         | CH High: 5240 MHz |             |               |        |
|----------------------------|-----------------|----------------|---------------|-------------------------|-------------------|-------------|---------------|--------|
| Pol.                       | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)    | Margin (dB) | Detector Type | Result |
| H                          | 5150.00         | 47.97          | 5.79          | 53.76                   | 68.23             | -14.47      | PK            | PASS   |
| H                          | 5350.00         | 44.87          | 6.45          | 51.32                   | 68.23             | -16.91      | PK            | PASS   |
| V                          | 5150.00         | 49.74          | 5.79          | 55.53                   | 68.23             | -12.70      | PK            | PASS   |
| V                          | 5350.00         | 46.68          | 6.45          | 53.13                   | 68.23             | -15.11      | PK            | PASS   |
| H                          | 5150.00         | 34.87          | 5.79          | 40.66                   | 54.00             | -13.34      | AV            | PASS   |
| H                          | 5350.00         | 31.27          | 6.45          | 37.72                   | 54.00             | -16.29      | AV            | PASS   |
| V                          | 5150.00         | 36.37          | 5.79          | 42.16                   | 54.00             | -11.84      | AV            | PASS   |
| V                          | 5350.00         | 31.19          | 6.45          | 37.64                   | 54.00             | -16.37      | AV            | PASS   |

**Remark:**

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

**Band Edge Emissions Test Data:**
**U-NII-3:**

| Test Mode: 802.11a |                 |                |               |                         | CH Low: 5745 MHz |             |               |        |
|--------------------|-----------------|----------------|---------------|-------------------------|------------------|-------------|---------------|--------|
| Pol.               | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)   | Margin (dB) | Detector Type | Result |
| H                  | 5650.00         | 45.34          | 7.55          | 52.89                   | 68.23            | -15.35      | PK            | PASS   |
| H                  | 5700.00         | 48.28          | 7.56          | 55.84                   | 105.23           | -49.40      | PK            | PASS   |
| H                  | 5720.00         | 49.57          | 7.59          | 57.16                   | 110.83           | -53.68      | PK            | PASS   |
| H                  | 5725.00         | 52.94          | 7.68          | 60.62                   | 122.23           | -61.61      | PK            | PASS   |
| V                  | 5650.00         | 46.42          | 7.55          | 53.97                   | 68.23            | -14.27      | PK            | PASS   |
| V                  | 5700.00         | 47.38          | 7.56          | 54.94                   | 105.23           | -50.30      | PK            | PASS   |
| V                  | 5720.00         | 50.39          | 7.59          | 57.98                   | 110.83           | -52.85      | PK            | PASS   |
| V                  | 5725.00         | 52.69          | 7.68          | 60.37                   | 122.23           | -61.86      | PK            | PASS   |
| H                  | 5650.00         | 28.63          | 7.55          | 36.18                   | 54.00            | -17.82      | AV            | PASS   |
| H                  | 5700.00         | 33.01          | 7.56          | 40.57                   | 54.00            | -13.44      | AV            | PASS   |
| H                  | 5720.00         | 35.45          | 7.59          | 43.04                   | 54.00            | -10.96      | AV            | PASS   |
| H                  | 5725.00         | 37.54          | 7.68          | 45.22                   | 54.00            | -8.79       | AV            | PASS   |
| V                  | 5650.00         | 31.46          | 7.55          | 39.01                   | 54.00            | -15.00      | AV            | PASS   |
| V                  | 5700.00         | 33.79          | 7.56          | 41.35                   | 54.00            | -12.65      | AV            | PASS   |
| V                  | 5720.00         | 34.10          | 7.59          | 41.69                   | 54.00            | -12.32      | AV            | PASS   |
| V                  | 5725.00         | 37.22          | 7.68          | 44.90                   | 54.00            | -9.11       | AV            | PASS   |

**Remark:**

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

**Band Edge Emissions Test Data:**
**U-NII-3:**

| Test Mode: 802.11a |                 |                |               |                         | CH High: 5825 MHz |             |               |        |
|--------------------|-----------------|----------------|---------------|-------------------------|-------------------|-------------|---------------|--------|
| Pol.               | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)    | Margin (dB) | Detector Type | Result |
| H                  | 5850.00         | 50.14          | 7.55          | 57.69                   | 122.23            | -64.55      | PK            | PASS   |
| H                  | 5855.00         | 48.63          | 7.56          | 56.19                   | 110.83            | -54.64      | PK            | PASS   |
| H                  | 5875.00         | 48.50          | 7.59          | 56.09                   | 105.23            | -49.15      | PK            | PASS   |
| H                  | 5925.00         | 44.85          | 7.68          | 52.53                   | 68.23             | -15.71      | PK            | PASS   |
| V                  | 5850.00         | 51.01          | 7.55          | 58.56                   | 122.23            | -63.67      | PK            | PASS   |
| V                  | 5855.00         | 49.33          | 7.56          | 56.89                   | 110.83            | -53.94      | PK            | PASS   |
| V                  | 5875.00         | 45.40          | 7.59          | 52.99                   | 105.23            | -52.24      | PK            | PASS   |
| V                  | 5925.00         | 43.77          | 7.68          | 51.45                   | 68.23             | -16.78      | PK            | PASS   |
| H                  | 5850.00         | 34.08          | 7.55          | 41.63                   | 54.00             | -12.38      | AV            | PASS   |
| H                  | 5855.00         | 35.51          | 7.56          | 43.07                   | 54.00             | -10.94      | AV            | PASS   |
| H                  | 5875.00         | 30.72          | 7.59          | 38.31                   | 54.00             | -15.70      | AV            | PASS   |
| H                  | 5925.00         | 28.72          | 7.68          | 36.40                   | 54.00             | -17.61      | AV            | PASS   |
| V                  | 5850.00         | 36.94          | 7.55          | 44.49                   | 54.00             | -9.52       | AV            | PASS   |
| V                  | 5855.00         | 32.24          | 7.56          | 39.80                   | 54.00             | -14.20      | AV            | PASS   |
| V                  | 5875.00         | 30.34          | 7.59          | 37.93                   | 54.00             | -16.08      | AV            | PASS   |
| V                  | 5925.00         | 28.23          | 7.68          | 35.91                   | 54.00             | -18.10      | AV            | PASS   |

**Remark:**

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

**Band Edge Emissions Test Data:**
**U-NII-3:**

| Test Mode: 802.11n(HT20) |                 |                |               |                         | CH Low: 5745 MHz |             |               |        |
|--------------------------|-----------------|----------------|---------------|-------------------------|------------------|-------------|---------------|--------|
| Pol.                     | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)   | Margin (dB) | Detector Type | Result |
| H                        | 5650.00         | 46.80          | 7.55          | 54.35                   | 68.23            | -13.89      | PK            | PASS   |
| H                        | 5700.00         | 48.87          | 7.56          | 56.43                   | 105.23           | -48.81      | PK            | PASS   |
| H                        | 5720.00         | 49.07          | 7.59          | 56.66                   | 110.83           | -54.18      | PK            | PASS   |
| H                        | 5725.00         | 50.46          | 7.68          | 58.14                   | 122.23           | -64.10      | PK            | PASS   |
| V                        | 5650.00         | 44.94          | 7.55          | 52.49                   | 68.23            | -15.74      | PK            | PASS   |
| V                        | 5700.00         | 48.21          | 7.56          | 55.77                   | 105.23           | -49.46      | PK            | PASS   |
| V                        | 5720.00         | 48.79          | 7.59          | 56.38                   | 110.83           | -54.45      | PK            | PASS   |
| V                        | 5725.00         | 50.39          | 7.68          | 58.07                   | 122.23           | -64.17      | PK            | PASS   |
| H                        | 5650.00         | 31.43          | 7.55          | 38.98                   | 54.00            | -15.02      | AV            | PASS   |
| H                        | 5700.00         | 31.01          | 7.56          | 38.57                   | 54.00            | -15.44      | AV            | PASS   |
| H                        | 5720.00         | 32.58          | 7.59          | 40.17                   | 54.00            | -13.84      | AV            | PASS   |
| H                        | 5725.00         | 36.54          | 7.68          | 44.22                   | 54.00            | -9.79       | AV            | PASS   |
| V                        | 5650.00         | 30.04          | 7.55          | 37.59                   | 54.00            | -16.41      | AV            | PASS   |
| V                        | 5700.00         | 32.71          | 7.56          | 40.27                   | 54.00            | -13.73      | AV            | PASS   |
| V                        | 5720.00         | 35.86          | 7.59          | 43.45                   | 54.00            | -10.56      | AV            | PASS   |
| V                        | 5725.00         | 37.50          | 7.68          | 45.18                   | 54.00            | -8.82       | AV            | PASS   |

**Remark:**

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

**Band Edge Emissions Test Data:**
**U-NII-3:**

| Test Mode: 802.11n(HT20) |                 |                |               |                         | CH High: 5825 MHz |             |               |        |
|--------------------------|-----------------|----------------|---------------|-------------------------|-------------------|-------------|---------------|--------|
| Pol.                     | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)    | Margin (dB) | Detector Type | Result |
| H                        | 5850.00         | 49.16          | 7.55          | 56.71                   | 122.23            | -65.53      | PK            | PASS   |
| H                        | 5855.00         | 50.60          | 7.56          | 58.16                   | 110.83            | -52.68      | PK            | PASS   |
| H                        | 5875.00         | 45.22          | 7.59          | 52.81                   | 105.23            | -52.42      | PK            | PASS   |
| H                        | 5925.00         | 46.20          | 7.68          | 53.88                   | 68.23             | -14.35      | PK            | PASS   |
| V                        | 5850.00         | 52.26          | 7.55          | 59.81                   | 122.23            | -62.43      | PK            | PASS   |
| V                        | 5855.00         | 48.56          | 7.56          | 56.12                   | 110.83            | -54.72      | PK            | PASS   |
| V                        | 5875.00         | 47.99          | 7.59          | 55.58                   | 105.23            | -49.66      | PK            | PASS   |
| V                        | 5925.00         | 46.55          | 7.68          | 54.23                   | 68.23             | -14.01      | PK            | PASS   |
| H                        | 5850.00         | 36.35          | 7.55          | 43.90                   | 54.00             | -10.11      | AV            | PASS   |
| H                        | 5855.00         | 32.16          | 7.56          | 39.72                   | 54.00             | -14.28      | AV            | PASS   |
| H                        | 5875.00         | 33.99          | 7.59          | 41.58                   | 54.00             | -12.42      | AV            | PASS   |
| H                        | 5925.00         | 29.85          | 7.68          | 37.53                   | 54.00             | -16.48      | AV            | PASS   |
| V                        | 5850.00         | 34.49          | 7.55          | 42.04                   | 54.00             | -11.96      | AV            | PASS   |
| V                        | 5855.00         | 32.38          | 7.56          | 39.94                   | 54.00             | -14.07      | AV            | PASS   |
| V                        | 5875.00         | 33.64          | 7.59          | 41.23                   | 54.00             | -12.78      | AV            | PASS   |
| V                        | 5925.00         | 28.01          | 7.68          | 35.69                   | 54.00             | -18.32      | AV            | PASS   |

**Remark:**

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

**Band Edge Emissions Test Data:**
**U-NII-3:**

| Test Mode: 802.11n(HT40) |                 |                |               |                         | CH Low: 5755 MHz |             |               |        |
|--------------------------|-----------------|----------------|---------------|-------------------------|------------------|-------------|---------------|--------|
| Pol.                     | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)   | Margin (dB) | Detector Type | Result |
| H                        | 5650.00         | 46.65          | 7.55          | 54.20                   | 68.23            | -14.03      | PK            | PASS   |
| H                        | 5700.00         | 45.63          | 7.56          | 53.19                   | 105.23           | -52.05      | PK            | PASS   |
| H                        | 5720.00         | 47.40          | 7.59          | 54.99                   | 110.83           | -55.85      | PK            | PASS   |
| H                        | 5725.00         | 49.01          | 7.68          | 56.69                   | 122.23           | -65.54      | PK            | PASS   |
| V                        | 5650.00         | 45.89          | 7.55          | 53.44                   | 68.23            | -14.80      | PK            | PASS   |
| V                        | 5700.00         | 46.09          | 7.56          | 53.65                   | 105.23           | -51.58      | PK            | PASS   |
| V                        | 5720.00         | 49.60          | 7.59          | 57.19                   | 110.83           | -53.65      | PK            | PASS   |
| V                        | 5725.00         | 49.68          | 7.68          | 57.36                   | 122.23           | -64.88      | PK            | PASS   |
| H                        | 5650.00         | 30.96          | 7.55          | 38.51                   | 54.00            | -15.50      | AV            | PASS   |
| H                        | 5700.00         | 31.85          | 7.56          | 39.41                   | 54.00            | -14.60      | AV            | PASS   |
| H                        | 5720.00         | 32.40          | 7.59          | 39.99                   | 54.00            | -14.01      | AV            | PASS   |
| H                        | 5725.00         | 37.98          | 7.68          | 45.66                   | 54.00            | -8.35       | AV            | PASS   |
| V                        | 5650.00         | 31.39          | 7.55          | 38.94                   | 54.00            | -15.06      | AV            | PASS   |
| V                        | 5700.00         | 30.71          | 7.56          | 38.27                   | 54.00            | -15.74      | AV            | PASS   |
| V                        | 5720.00         | 34.03          | 7.59          | 41.62                   | 54.00            | -12.39      | AV            | PASS   |
| V                        | 5725.00         | 36.08          | 7.68          | 43.76                   | 54.00            | -10.25      | AV            | PASS   |

**Remark:**

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

**Band Edge Emissions Test Data:**
**U-NII-3:**

| Test Mode: 802.11n(HT40) |                 |                |               |                         | CH High: 5795 MHz |             |               |        |
|--------------------------|-----------------|----------------|---------------|-------------------------|-------------------|-------------|---------------|--------|
| Pol.                     | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)    | Margin (dB) | Detector Type | Result |
| H                        | 5850.00         | 51.89          | 7.55          | 59.44                   | 122.23            | -62.79      | PK            | PASS   |
| H                        | 5855.00         | 48.40          | 7.56          | 55.96                   | 110.83            | -54.87      | PK            | PASS   |
| H                        | 5875.00         | 47.22          | 7.59          | 54.81                   | 105.23            | -50.43      | PK            | PASS   |
| H                        | 5925.00         | 46.13          | 7.68          | 53.81                   | 68.23             | -14.42      | PK            | PASS   |
| V                        | 5850.00         | 49.22          | 7.55          | 56.77                   | 122.23            | -65.47      | PK            | PASS   |
| V                        | 5855.00         | 50.60          | 7.56          | 58.16                   | 110.83            | -52.68      | PK            | PASS   |
| V                        | 5875.00         | 48.05          | 7.59          | 55.64                   | 105.23            | -49.60      | PK            | PASS   |
| V                        | 5925.00         | 43.23          | 7.68          | 50.91                   | 68.23             | -17.33      | PK            | PASS   |
| H                        | 5850.00         | 37.60          | 7.55          | 45.15                   | 54.00             | -8.86       | AV            | PASS   |
| H                        | 5855.00         | 35.36          | 7.56          | 42.92                   | 54.00             | -11.09      | AV            | PASS   |
| H                        | 5875.00         | 31.50          | 7.59          | 39.09                   | 54.00             | -14.92      | AV            | PASS   |
| H                        | 5925.00         | 28.91          | 7.68          | 36.59                   | 54.00             | -17.42      | AV            | PASS   |
| V                        | 5850.00         | 34.14          | 7.55          | 41.69                   | 54.00             | -12.32      | AV            | PASS   |
| V                        | 5855.00         | 33.09          | 7.56          | 40.65                   | 54.00             | -13.35      | AV            | PASS   |
| V                        | 5875.00         | 32.65          | 7.59          | 40.24                   | 54.00             | -13.77      | AV            | PASS   |
| V                        | 5925.00         | 28.55          | 7.68          | 36.23                   | 54.00             | -17.77      | AV            | PASS   |

**Remark:**

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

**Band Edge Emissions Test Data:**
**U-NII-3:**

| Test Mode: 802.11ac(VHT20) |                 |                |               |                         | CH Low: 5745 MHz |             |               |        |
|----------------------------|-----------------|----------------|---------------|-------------------------|------------------|-------------|---------------|--------|
| Pol.                       | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)   | Margin (dB) | Detector Type | Result |
| H                          | 5650.00         | 44.72          | 7.55          | 52.27                   | 68.23            | -15.97      | PK            | PASS   |
| H                          | 5700.00         | 48.90          | 7.56          | 56.46                   | 105.23           | -48.77      | PK            | PASS   |
| H                          | 5720.00         | 49.22          | 7.59          | 56.81                   | 110.83           | -54.03      | PK            | PASS   |
| H                          | 5725.00         | 50.68          | 7.68          | 58.36                   | 122.23           | -63.88      | PK            | PASS   |
| V                          | 5650.00         | 43.55          | 7.55          | 51.10                   | 68.23            | -17.14      | PK            | PASS   |
| V                          | 5700.00         | 48.11          | 7.56          | 55.67                   | 105.23           | -49.57      | PK            | PASS   |
| V                          | 5720.00         | 48.56          | 7.59          | 56.15                   | 110.83           | -54.68      | PK            | PASS   |
| V                          | 5725.00         | 51.95          | 7.68          | 59.63                   | 122.23           | -62.61      | PK            | PASS   |
| H                          | 5650.00         | 29.10          | 7.55          | 36.65                   | 54.00            | -17.35      | AV            | PASS   |
| H                          | 5700.00         | 31.53          | 7.56          | 39.09                   | 54.00            | -14.92      | AV            | PASS   |
| H                          | 5720.00         | 32.42          | 7.59          | 40.01                   | 54.00            | -14.00      | AV            | PASS   |
| H                          | 5725.00         | 36.76          | 7.68          | 44.44                   | 54.00            | -9.57       | AV            | PASS   |
| V                          | 5650.00         | 31.46          | 7.55          | 39.01                   | 54.00            | -15.00      | AV            | PASS   |
| V                          | 5700.00         | 33.87          | 7.56          | 41.43                   | 54.00            | -12.57      | AV            | PASS   |
| V                          | 5720.00         | 35.65          | 7.59          | 43.24                   | 54.00            | -10.77      | AV            | PASS   |
| V                          | 5725.00         | 35.75          | 7.68          | 43.43                   | 54.00            | -10.58      | AV            | PASS   |

**Remark:**

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

**Band Edge Emissions Test Data:**
**U-NII-3:**

| Test Mode: 802.11ac(VHT20) |                 |                |               |                         | CH High: 5825 MHz |             |               |        |
|----------------------------|-----------------|----------------|---------------|-------------------------|-------------------|-------------|---------------|--------|
| Pol.                       | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)    | Margin (dB) | Detector Type | Result |
| H                          | 5850.00         | 49.13          | 7.55          | 56.68                   | 122.23            | -65.56      | PK            | PASS   |
| H                          | 5855.00         | 50.37          | 7.56          | 57.93                   | 110.83            | -52.90      | PK            | PASS   |
| H                          | 5875.00         | 47.43          | 7.59          | 55.02                   | 105.23            | -50.21      | PK            | PASS   |
| H                          | 5925.00         | 43.99          | 7.68          | 51.67                   | 68.23             | -16.57      | PK            | PASS   |
| V                          | 5850.00         | 49.18          | 7.55          | 56.73                   | 122.23            | -65.51      | PK            | PASS   |
| V                          | 5855.00         | 47.45          | 7.56          | 55.01                   | 110.83            | -55.83      | PK            | PASS   |
| V                          | 5875.00         | 48.63          | 7.59          | 56.22                   | 105.23            | -49.01      | PK            | PASS   |
| V                          | 5925.00         | 44.82          | 7.68          | 52.50                   | 68.23             | -15.73      | PK            | PASS   |
| H                          | 5850.00         | 35.48          | 7.55          | 43.03                   | 54.00             | -10.97      | AV            | PASS   |
| H                          | 5855.00         | 33.19          | 7.56          | 40.75                   | 54.00             | -13.26      | AV            | PASS   |
| H                          | 5875.00         | 31.93          | 7.59          | 39.52                   | 54.00             | -14.48      | AV            | PASS   |
| H                          | 5925.00         | 29.29          | 7.68          | 36.97                   | 54.00             | -17.03      | AV            | PASS   |
| V                          | 5850.00         | 34.89          | 7.55          | 42.44                   | 54.00             | -11.56      | AV            | PASS   |
| V                          | 5855.00         | 32.48          | 7.56          | 40.04                   | 54.00             | -13.97      | AV            | PASS   |
| V                          | 5875.00         | 31.91          | 7.59          | 39.50                   | 54.00             | -14.51      | AV            | PASS   |
| V                          | 5925.00         | 28.13          | 7.68          | 35.81                   | 54.00             | -18.19      | AV            | PASS   |

**Remark:**

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

**Band Edge Emissions Test Data:**
**U-NII-3:**

| Test Mode: 802.11ax(HEW20) |                 |                |               |                         | CH Low: 5745 MHz |             |               |        |
|----------------------------|-----------------|----------------|---------------|-------------------------|------------------|-------------|---------------|--------|
| Pol.                       | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)   | Margin (dB) | Detector Type | Result |
| H                          | 5650.00         | 44.99          | 7.55          | 52.54                   | 68.23            | -15.70      | PK            | PASS   |
| H                          | 5700.00         | 48.02          | 7.56          | 55.58                   | 105.23           | -49.66      | PK            | PASS   |
| H                          | 5720.00         | 48.56          | 7.59          | 56.15                   | 110.83           | -54.69      | PK            | PASS   |
| H                          | 5725.00         | 51.22          | 7.68          | 58.90                   | 122.23           | -63.33      | PK            | PASS   |
| V                          | 5650.00         | 45.76          | 7.55          | 53.31                   | 68.23            | -14.92      | PK            | PASS   |
| V                          | 5700.00         | 47.31          | 7.56          | 54.87                   | 105.23           | -50.36      | PK            | PASS   |
| V                          | 5720.00         | 50.82          | 7.59          | 58.41                   | 110.83           | -52.43      | PK            | PASS   |
| V                          | 5725.00         | 52.50          | 7.68          | 60.18                   | 122.23           | -62.06      | PK            | PASS   |
| H                          | 5650.00         | 29.22          | 7.55          | 36.77                   | 54.00            | -17.23      | AV            | PASS   |
| H                          | 5700.00         | 33.24          | 7.56          | 40.80                   | 54.00            | -13.21      | AV            | PASS   |
| H                          | 5720.00         | 32.99          | 7.59          | 40.58                   | 54.00            | -13.43      | AV            | PASS   |
| H                          | 5725.00         | 37.42          | 7.68          | 45.10                   | 54.00            | -8.91       | AV            | PASS   |
| V                          | 5650.00         | 30.40          | 7.55          | 37.95                   | 54.00            | -16.05      | AV            | PASS   |
| V                          | 5700.00         | 30.28          | 7.56          | 37.84                   | 54.00            | -16.16      | AV            | PASS   |
| V                          | 5720.00         | 34.85          | 7.59          | 42.44                   | 54.00            | -11.57      | AV            | PASS   |
| V                          | 5725.00         | 34.84          | 7.68          | 42.52                   | 54.00            | -11.48      | AV            | PASS   |

**Remark:**

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

**Band Edge Emissions Test Data:**
**U-NII-3:**

| Test Mode: 802.11ax(HEW20) |                 |                |               |                         | CH High: 5825 MHz |             |               |        |
|----------------------------|-----------------|----------------|---------------|-------------------------|-------------------|-------------|---------------|--------|
| Pol.                       | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)    | Margin (dB) | Detector Type | Result |
| H                          | 5850.00         | 51.31          | 7.55          | 58.86                   | 122.23            | -63.37      | PK            | PASS   |
| H                          | 5855.00         | 50.32          | 7.56          | 57.88                   | 110.83            | -52.96      | PK            | PASS   |
| H                          | 5875.00         | 48.04          | 7.59          | 55.63                   | 105.23            | -49.60      | PK            | PASS   |
| H                          | 5925.00         | 45.85          | 7.68          | 53.53                   | 68.23             | -14.70      | PK            | PASS   |
| V                          | 5850.00         | 52.58          | 7.55          | 60.13                   | 122.23            | -62.10      | PK            | PASS   |
| V                          | 5855.00         | 48.38          | 7.56          | 55.94                   | 110.83            | -54.89      | PK            | PASS   |
| V                          | 5875.00         | 48.94          | 7.59          | 56.53                   | 105.23            | -48.70      | PK            | PASS   |
| V                          | 5925.00         | 44.60          | 7.68          | 52.28                   | 68.23             | -15.95      | PK            | PASS   |
| H                          | 5850.00         | 35.23          | 7.55          | 42.78                   | 54.00             | -11.22      | AV            | PASS   |
| H                          | 5855.00         | 34.64          | 7.56          | 42.20                   | 54.00             | -11.81      | AV            | PASS   |
| H                          | 5875.00         | 31.61          | 7.59          | 39.20                   | 54.00             | -14.80      | AV            | PASS   |
| H                          | 5925.00         | 28.59          | 7.68          | 36.27                   | 54.00             | -17.74      | AV            | PASS   |
| V                          | 5850.00         | 34.37          | 7.55          | 41.92                   | 54.00             | -12.08      | AV            | PASS   |
| V                          | 5855.00         | 34.34          | 7.56          | 41.90                   | 54.00             | -12.10      | AV            | PASS   |
| V                          | 5875.00         | 32.16          | 7.59          | 39.75                   | 54.00             | -14.26      | AV            | PASS   |
| V                          | 5925.00         | 31.44          | 7.68          | 39.12                   | 54.00             | -14.88      | AV            | PASS   |

**Remark:**

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

## 6.9 Undesirable emission limits (below 1GHz)

### 6.9.1 Test Specification

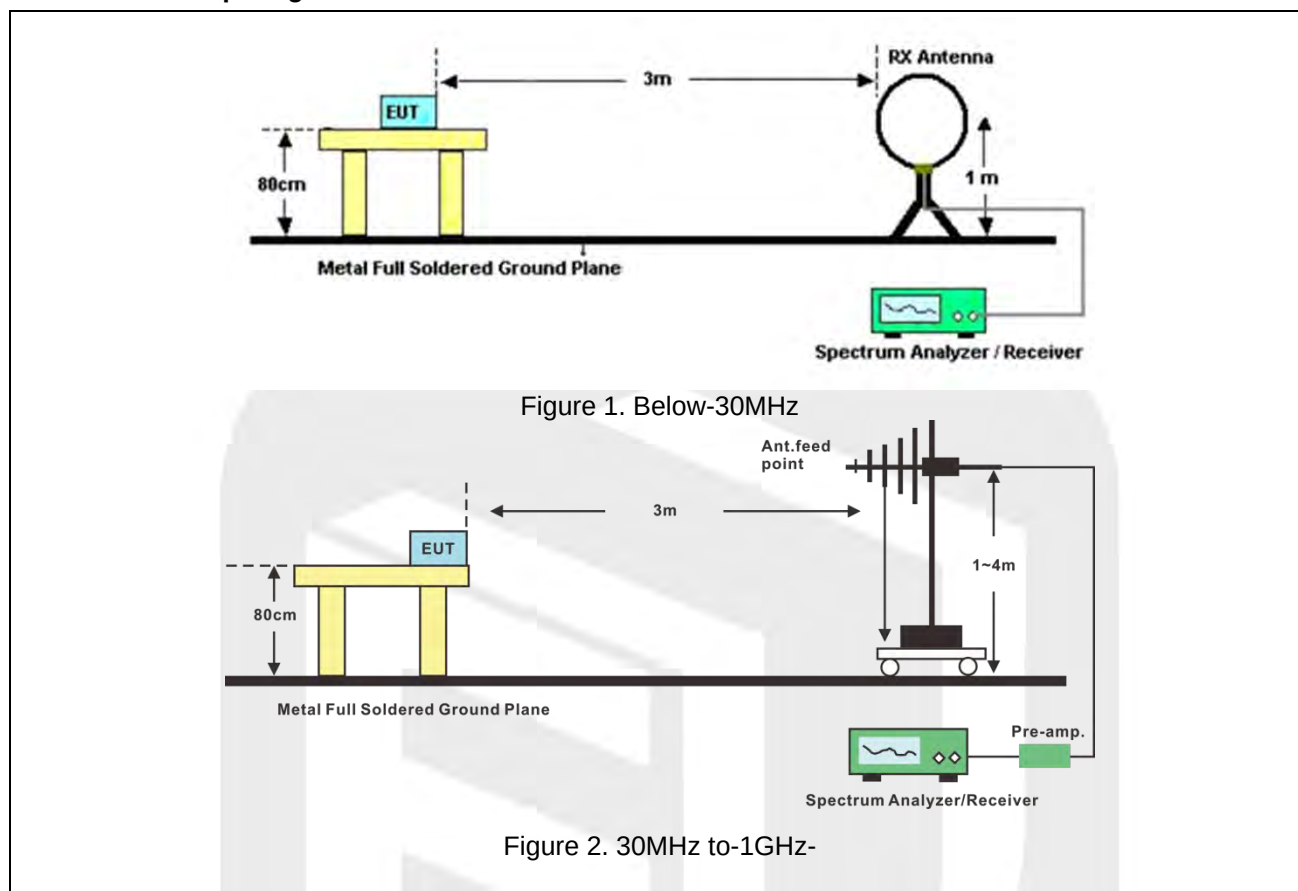
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|
| Test Requirement:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 47 CFR Part 15.407(b)(9)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                   |                               |
| Test Limit:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                   |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Frequency (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Field strength (microvolts/meter) | Measurement distance (meters) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.009-0.490                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2400/F(kHz)                       | 300                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.490-1.705                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 24000/F(kHz)                      | 30                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.705-30.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 30                                | 30                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 30-88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 100 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 88-216                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 150 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 216-960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 200 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Above 960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 500                               | 3                             |
| <p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges.</p> <p>The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |                               |
| Test Method:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ANSI C63.10-2020+Cor.1-2023, section 12.7.4, 12.7.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                   |                               |
| Procedure:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <p>Below 1GHz:</p> <p>a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.</p> <p>g. Test the EUT in the lowest channel, the middle channel, the Highest channel.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for</p> |                                   |                               |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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|  | <p>Transmitting mode, and found the X axis positioning which it is the worst case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>Remark:</p> <ol style="list-style-type: none"> <li>1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor</li> <li>2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.</li> <li>3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.</li> </ol> <p>Above 1GHz:</p> <ol style="list-style-type: none"> <li>a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.</li> <li>g. Test the EUT in the lowest channel, the middle channel, the Highest channel.</li> <li>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.</li> <li>i. Repeat above procedures until all frequencies measured was complete.</li> </ol> <p>Remark:</p> <ol style="list-style-type: none"> <li>1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor</li> <li>2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.</li> <li>3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.</li> <li>4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.</li> </ol> |
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## 6.9.2 E.U.T. Operation

|                  |                         |
|------------------|-------------------------|
| Pre test mode:   | TM1, TM2, TM3, TM4, TM5 |
| Final test mode: | TM1, TM2, TM3, TM4, TM5 |

### 6.9.3 Test Setup Diagram



### 6.9.4 Test Data

**PASS.**

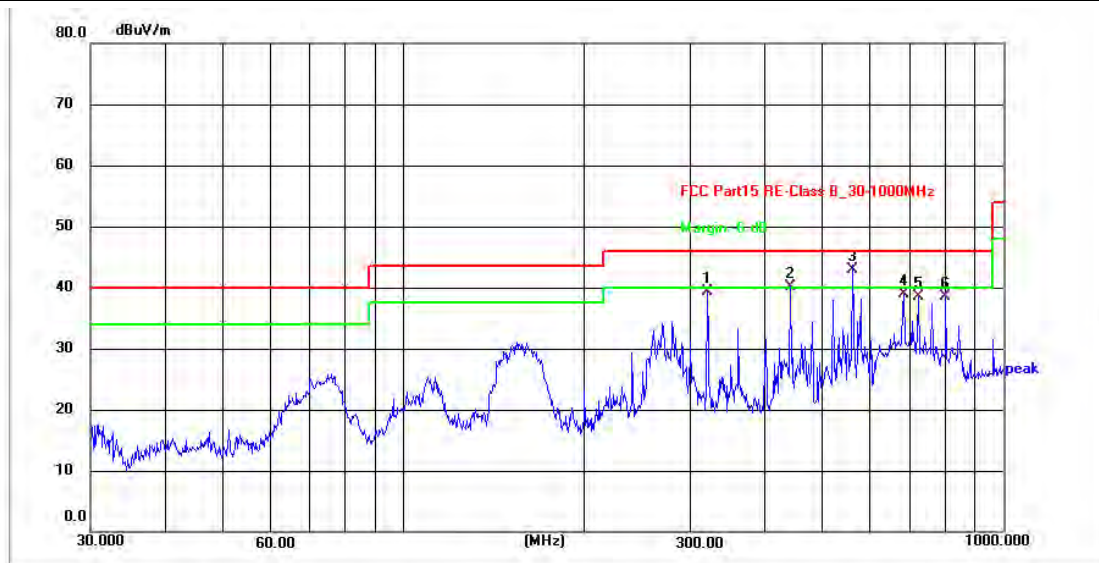
Please to see the following pages.

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

For test of 30MHz-1GHz, during the test, pre-scan all modes, and found the U-NII-1 / 802.11a is worse case, the report only record this mode.

### Undesirable emission limits (below 1GHz) Test Data

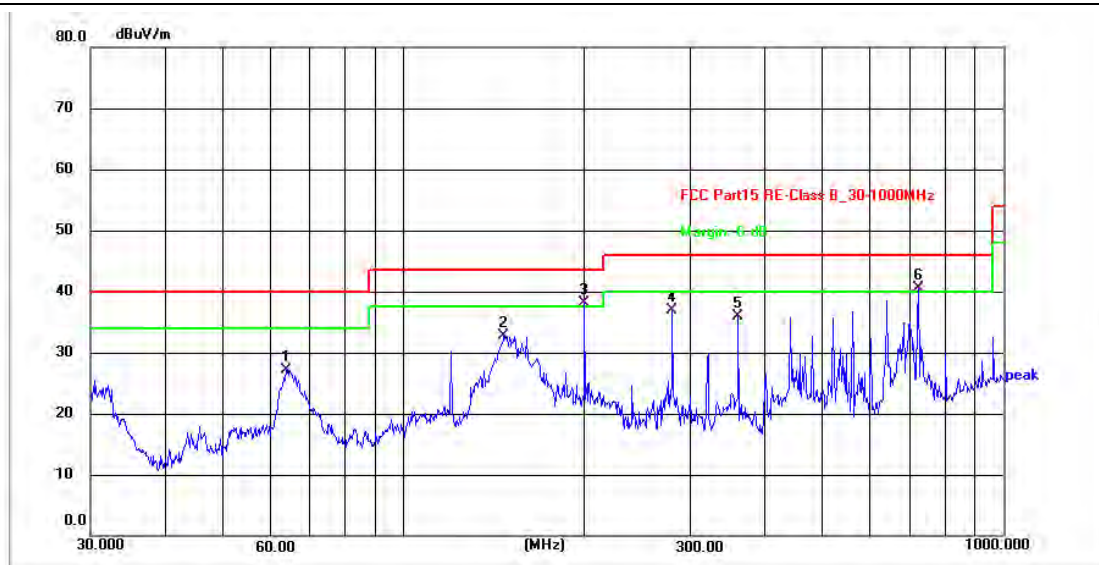
TM1 / Polarization: Horizontal / Band: 5150-5250 MHz / BW: 20 / CH: L



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1   | 319.9370        | 50.92          | -11.56        | 39.36          | 46.00          | -6.64       | QP       | P   |        |
| 2   | 440.1961        | 49.45          | -9.29         | 40.16          | 46.00          | -5.84       | QP       | P   |        |
| 3 * | 560.6928        | 50.03          | -7.13         | 42.90          | 46.00          | -3.10       | QP       | P   |        |
| 4   | 682.3482        | 44.23          | -5.42         | 38.81          | 46.00          | -7.19       | QP       | P   |        |
| 5   | 721.7258        | 43.49          | -4.98         | 38.51          | 46.00          | -7.49       | QP       | P   |        |
| 6   | 801.7862        | 42.37          | -3.94         | 38.43          | 46.00          | -7.57       | QP       | P   |        |

### Undesirable emission limits (below 1GHz) Test Data

TM1 / Polarization: Vertical / Band: 5150-5250 MHz / BW: 20 / CH: L



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1   | 63.5356         | 43.06          | -15.97        | 27.09          | 40.00          | -12.91      | QP       | P   |        |
| 2   | 146.8874        | 51.21          | -18.51        | 32.70          | 43.50          | -10.80      | QP       | P   |        |
| 3 * | 199.9855        | 53.25          | -15.06        | 38.19          | 43.50          | -5.31       | QP       | P   |        |
| 4   | 280.0237        | 49.46          | -12.56        | 36.90          | 46.00          | -9.10       | QP       | P   |        |
| 5   | 360.4476        | 46.61          | -10.72        | 35.89          | 46.00          | -10.11      | QP       | P   |        |
| 6 ! | 721.7258        | 45.35          | -4.88         | 40.47          | 46.00          | -5.53       | QP       | P   |        |

## 6.10 Undesirable emission limits (above 1GHz)

### 6.10.1 Test Specification

| Test Requirement:        | 47 CFR Part 15.407(b)(1)<br>47 CFR Part 15.407(b)(4)<br>47 CFR Part 15.407(b)(10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |                  |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-----|-----|-----|-----|-------------|--------------|-----------|----------|--------------------------|-------------------|---------|-----------|---------------|-------------------|----------|-----------|-------------|------------|-----------|-----------|-----------------|------------|-------------|---------|-----------------|---------|---------------|---------|-------------|-----------|-----------|-----------|-----------------|------------|---------------|------------|-----------------|---------|-----------|------------|-------------|--------------|-----------|------------|-------------|---------------------|-------------|-----------|-----------------|-------------|-----------|-------------|-----------------|-----------------|-----------|-----------|--------------|--------------|-----------|-----------|-------------------|---------|-------------|------------|-------------------|-----------|-----------|------------------|-------------|--|--|--|
| Test Limit:              | <p>For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>For transmitters operating solely in the 5.725-5.850 GHz band:<br/> All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p> <table border="1"> <thead> <tr> <th>MHz</th><th>MHz</th><th>MHz</th><th>GHz</th></tr> </thead> <tbody> <tr> <td>0.090-0.110</td><td>16.42-16.423</td><td>399.9-410</td><td>4.5-5.15</td></tr> <tr> <td><sup>1</sup> 0.495-0.505</td><td>16.69475-16.69525</td><td>608-614</td><td>5.35-5.46</td></tr> <tr> <td>2.1735-2.1905</td><td>16.80425-16.80475</td><td>960-1240</td><td>7.25-7.75</td></tr> <tr> <td>4.125-4.128</td><td>25.5-25.67</td><td>1300-1427</td><td>8.025-8.5</td></tr> <tr> <td>4.17725-4.17775</td><td>37.5-38.25</td><td>1435-1626.5</td><td>9.0-9.2</td></tr> <tr> <td>4.20725-4.20775</td><td>73-74.6</td><td>1645.5-1646.5</td><td>9.3-9.5</td></tr> <tr> <td>6.215-6.218</td><td>74.8-75.2</td><td>1660-1710</td><td>10.6-12.7</td></tr> <tr> <td>6.26775-6.26825</td><td>108-121.94</td><td>1718.8-1722.2</td><td>13.25-13.4</td></tr> <tr> <td>6.31175-6.31225</td><td>123-138</td><td>2200-2300</td><td>14.47-14.5</td></tr> <tr> <td>8.291-8.294</td><td>149.9-150.05</td><td>2310-2390</td><td>15.35-16.2</td></tr> <tr> <td>8.362-8.366</td><td>156.52475-156.52525</td><td>2483.5-2500</td><td>17.7-21.4</td></tr> <tr> <td>8.37625-8.38675</td><td>156.7-156.9</td><td>2690-2900</td><td>22.01-23.12</td></tr> <tr> <td>8.41425-8.41475</td><td>162.0125-167.17</td><td>3260-3267</td><td>23.6-24.0</td></tr> <tr> <td>12.29-12.293</td><td>167.72-173.2</td><td>3332-3339</td><td>31.2-31.8</td></tr> <tr> <td>12.51975-12.52025</td><td>240-285</td><td>3345.8-3358</td><td>36.43-36.5</td></tr> <tr> <td>12.57675-12.57725</td><td>322-335.4</td><td>3600-4400</td><td>(<sup>2</sup>)</td></tr> <tr> <td>13.36-13.41</td><td></td><td></td><td></td></tr> </tbody> </table> <p><sup>1</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.</p> <p><sup>2</sup> Above 38.6</p> <p>The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in § 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in § 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in § 15.209 shall be demonstrated</p> |               |                  | MHz | MHz | MHz | GHz | 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 | <sup>1</sup> 0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 | 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 | 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 | 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 | 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 | 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 | 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25-13.4 | 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 | 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 | 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 | 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 | 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 | 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 | 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 | 12.57675-12.57725 | 322-335.4 | 3600-4400 | ( <sup>2</sup> ) | 13.36-13.41 |  |  |  |
| MHz                      | MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | MHz           | GHz              |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 0.090-0.110              | 16.42-16.423                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 399.9-410     | 4.5-5.15         |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| <sup>1</sup> 0.495-0.505 | 16.69475-16.69525                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 608-614       | 5.35-5.46        |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 2.1735-2.1905            | 16.80425-16.80475                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 960-1240      | 7.25-7.75        |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 4.125-4.128              | 25.5-25.67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1300-1427     | 8.025-8.5        |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 4.17725-4.17775          | 37.5-38.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1435-1626.5   | 9.0-9.2          |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 4.20725-4.20775          | 73-74.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1645.5-1646.5 | 9.3-9.5          |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 6.215-6.218              | 74.8-75.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1660-1710     | 10.6-12.7        |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 6.26775-6.26825          | 108-121.94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1718.8-1722.2 | 13.25-13.4       |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 6.31175-6.31225          | 123-138                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2200-2300     | 14.47-14.5       |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 8.291-8.294              | 149.9-150.05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2310-2390     | 15.35-16.2       |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 8.362-8.366              | 156.52475-156.52525                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2483.5-2500   | 17.7-21.4        |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 8.37625-8.38675          | 156.7-156.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2690-2900     | 22.01-23.12      |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 8.41425-8.41475          | 162.0125-167.17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3260-3267     | 23.6-24.0        |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 12.29-12.293             | 167.72-173.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3332-3339     | 31.2-31.8        |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 12.51975-12.52025        | 240-285                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3345.8-3358   | 36.43-36.5       |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 12.57675-12.57725        | 322-335.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3600-4400     | ( <sup>2</sup> ) |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 13.36-13.41              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |               |                  |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |

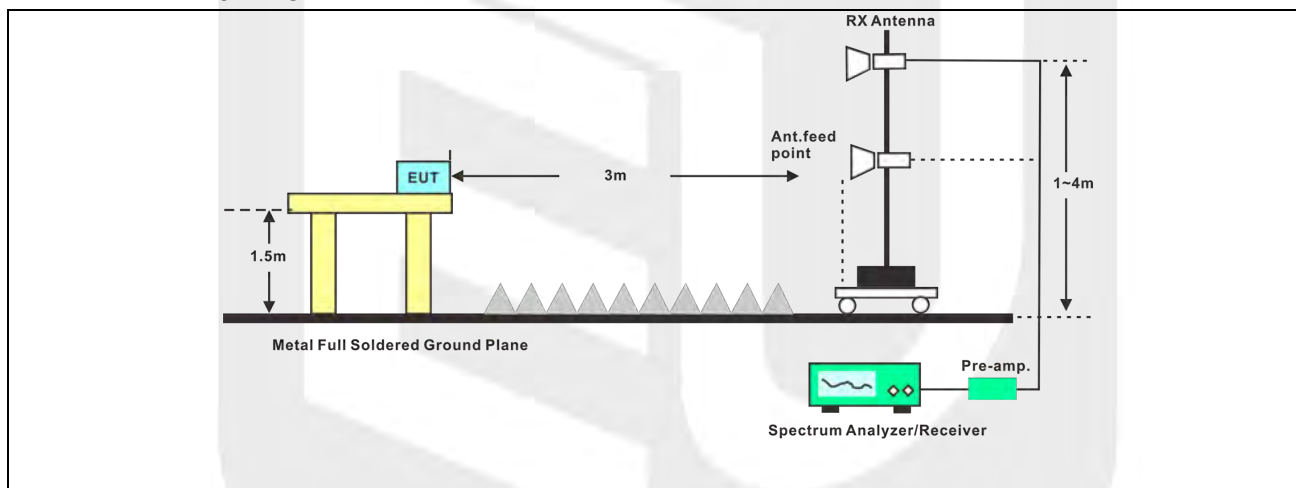
|                 | <p>based on the average value of the measured emissions. The provisions in § 15.35 apply to these measurements.</p> <p>Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:</p> <table><tr><th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr><tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr><tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr><tr><td>1.705-30.0</td><td>30</td><td>30</td></tr><tr><td>30-88</td><td>100 **</td><td>3</td></tr><tr><td>88-216</td><td>150 **</td><td>3</td></tr><tr><td>216-960</td><td>200 **</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>3</td></tr></table> <p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p>                                                                                                                                                                                                                                                                                                                              | Frequency (MHz)               | Field strength (microvolts/meter) | Measurement distance (meters) | 0.009-0.490 | 2400/F(kHz) | 300 | 0.490-1.705 | 24000/F(kHz) | 30 | 1.705-30.0 | 30 | 30 | 30-88 | 100 ** | 3 | 88-216 | 150 ** | 3 | 216-960 | 200 ** | 3 | Above 960 | 500 | 3 |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------|-------------------------------|-------------|-------------|-----|-------------|--------------|----|------------|----|----|-------|--------|---|--------|--------|---|---------|--------|---|-----------|-----|---|
| Frequency (MHz) | Field strength (microvolts/meter)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Measurement distance (meters) |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 0.009-0.490     | 2400/F(kHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 300                           |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 0.490-1.705     | 24000/F(kHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 30                            |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 1.705-30.0      | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 30                            |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 30-88           | 100 **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3                             |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 88-216          | 150 **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3                             |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 216-960         | 200 **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3                             |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| Above 960       | 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3                             |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| Test Method:    | ANSI C63.10-2020+Cor.1-2023, section 12.7.4, 12.7.6, 12.7.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                               |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| Procedure:      | <p>Above 1GHz:</p> <p>a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.</p> <p>g. Test the EUT in the lowest channel, the middle channel, the Highest channel.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>Remark:</p> <p>1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor</p> |                               |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.</p> <p>3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.</p> <p>4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.</p> |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 6.10.2 E.U.T. Operation

|                  |                         |
|------------------|-------------------------|
| Pre test mode:   | TM1, TM2, TM3, TM4, TM5 |
| Final test mode: | TM1, TM2, TM3, TM4, TM5 |

#### 6.10.3 Test Setup Diagram



#### 6.10.4 Test Data

**PASS.**

Please to see the following pages.

For test of 1GHz-40GHz, during the test, pre-scan all modes, and found the U-NII-1 / 802.11n(HT20) & U-NII-3 / 802.11n(HT20) is worse case, the report only record this mode.

The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

**Radiated Spurious Emission (1GHz-40GHz)**

| Test Mode: 802.11n(HT20) |                 |                |               |                         | CH Low: 5180 MHz |             |               |        |
|--------------------------|-----------------|----------------|---------------|-------------------------|------------------|-------------|---------------|--------|
| Pol.                     | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)   | Margin (dB) | Detector Type | Result |
| V                        | 3201.79         | 46.70          | 0.01          | 46.70                   | 68.23            | -21.53      | PK            | PASS   |
| V                        | 7504.12         | 40.77          | 9.83          | 50.60                   | 68.23            | -17.63      | PK            | PASS   |
| V                        | 9510.29         | 35.17          | 13.18         | 48.34                   | 68.23            | -19.89      | PK            | PASS   |
| V                        | 10360.75        | 42.16          | 13.79         | 55.95                   | 68.23            | -12.28      | PK            | PASS   |
| V                        | 14004.65        | 35.78          | 17.34         | 53.11                   | 68.23            | -15.12      | PK            | PASS   |
| V                        | 15542.00        | *              | *             | *                       | 68.23            | *           | PK            | PASS   |
| H                        | 3202.00         | 45.31          | -0.86         | 44.45                   | 68.23            | -23.78      | PK            | PASS   |
| H                        | 7502.50         | 40.39          | 9.83          | 50.22                   | 68.23            | -18.01      | PK            | PASS   |
| H                        | 9502.25         | 37.05          | 13.15         | 50.20                   | 68.23            | -18.03      | PK            | PASS   |
| H                        | 10362.50        | 42.62          | 13.79         | 56.41                   | 68.23            | -11.82      | PK            | PASS   |
| H                        | 14014.58        | 37.78          | 17.35         | 55.13                   | 68.23            | -13.10      | PK            | PASS   |
| H                        | 15541.25        | *              | *             | *                       | 68.23            | *           | PK            | PASS   |
| V                        | 3201.79         | 32.31          | 0.01          | 32.31                   | 54.00            | -21.69      | AV            | PASS   |
| V                        | 7504.12         | 29.93          | 9.83          | 39.77                   | 54.00            | -14.23      | AV            | PASS   |
| V                        | 9510.29         | 22.04          | 13.18         | 35.21                   | 54.00            | -18.79      | AV            | PASS   |
| V                        | 10360.75        | 30.07          | 13.79         | 43.86                   | 54.00            | -10.14      | AV            | PASS   |
| V                        | 14004.65        | 22.53          | 17.34         | 39.87                   | 54.00            | -14.13      | AV            | PASS   |
| V                        | 15542.00        | *              | *             | *                       | 54.00            | *           | AV            | PASS   |
| H                        | 3202.00         | 33.59          | -0.86         | 32.72                   | 54.00            | -21.28      | AV            | PASS   |
| H                        | 7502.50         | 28.46          | 9.83          | 38.29                   | 54.00            | -15.71      | AV            | PASS   |
| H                        | 9502.25         | 22.10          | 13.15         | 35.24                   | 54.00            | -18.76      | AV            | PASS   |
| H                        | 10362.50        | 30.92          | 13.79         | 44.71                   | 54.00            | -9.29       | AV            | PASS   |
| H                        | 14014.58        | 23.30          | 17.35         | 40.65                   | 54.00            | -13.35      | AV            | PASS   |
| H                        | 15541.25        | *              | *             | *                       | 54.00            | *           | AV            | PASS   |

Remark:

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.
2. "\*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

**Radiated Spurious Emission (1GHz-40GHz)**

| Test Mode: 802.11n(HT20) |                 |                |               |                         | CH Middle: 5200 MHz |             |               |        |
|--------------------------|-----------------|----------------|---------------|-------------------------|---------------------|-------------|---------------|--------|
| Pol.                     | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)      | Margin (dB) | Detector Type | Result |
| V                        | 3411.47         | 47.51          | -0.09         | 47.42                   | 68.23               | -20.81      | PK            | PASS   |
| V                        | 8017.31         | 40.12          | 10.37         | 50.48                   | 68.23               | -17.75      | PK            | PASS   |
| V                        | 9707.33         | 35.94          | 13.20         | 49.14                   | 68.23               | -19.09      | PK            | PASS   |
| V                        | 10400.25        | 42.81          | 13.91         | 56.72                   | 68.23               | -11.51      | PK            | PASS   |
| V                        | 14319.03        | 37.93          | 17.46         | 55.39                   | 68.23               | -12.84      | PK            | PASS   |
| V                        | 15600.75        | *              | *             | *                       | 68.23               | *           | PK            | PASS   |
| H                        | 3410.04         | 47.66          | -0.10         | 47.56                   | 68.23               | -20.67      | PK            | PASS   |
| H                        | 8004.75         | 42.46          | 10.33         | 52.79                   | 68.23               | -15.44      | PK            | PASS   |
| H                        | 9708.30         | 37.01          | 13.20         | 50.21                   | 68.23               | -18.02      | PK            | PASS   |
| H                        | 10401.75        | 44.82          | 13.91         | 58.73                   | 68.23               | -9.50       | PK            | PASS   |
| H                        | 14313.32        | 36.72          | 17.45         | 54.17                   | 68.23               | -14.06      | PK            | PASS   |
| H                        | 15600.75        | *              | *             | *                       | 68.23               | *           | PK            | PASS   |
| V                        | 3411.47         | 33.06          | -0.09         | 32.97                   | 54.00               | -21.03      | AV            | PASS   |
| V                        | 8017.31         | 28.66          | 10.37         | 39.02                   | 54.00               | -14.98      | AV            | PASS   |
| V                        | 9707.33         | 22.30          | 13.20         | 35.50                   | 54.00               | -18.50      | AV            | PASS   |
| V                        | 10400.25        | 31.21          | 13.91         | 45.12                   | 54.00               | -8.88       | AV            | PASS   |
| V                        | 14319.03        | 22.75          | 17.46         | 40.21                   | 54.00               | -13.79      | AV            | PASS   |
| V                        | 15600.75        | *              | *             | *                       | 54.00               | *           | AV            | PASS   |
| H                        | 3410.04         | 32.03          | -0.10         | 31.93                   | 54.00               | -22.07      | AV            | PASS   |
| H                        | 8004.75         | 29.07          | 10.33         | 39.41                   | 54.00               | -14.59      | AV            | PASS   |
| H                        | 9708.30         | 22.11          | 13.20         | 35.31                   | 54.00               | -18.69      | AV            | PASS   |
| H                        | 10401.75        | 31.34          | 13.91         | 45.25                   | 54.00               | -8.75       | AV            | PASS   |
| H                        | 14313.32        | 22.71          | 17.45         | 40.16                   | 54.00               | -13.84      | AV            | PASS   |
| H                        | 15600.75        | *              | *             | *                       | 54.00               | *           | AV            | PASS   |

Remark:

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.
2. "\*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

**Radiated Spurious Emission (1GHz-40GHz)**

| Test Mode: 802.11n(HT20) |                 |                |               |                         | CH High: 5240 MHz |             |               |        |
|--------------------------|-----------------|----------------|---------------|-------------------------|-------------------|-------------|---------------|--------|
| Pol.                     | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)    | Margin (dB) | Detector Type | Result |
| V                        | 3711.33         | 47.88          | 1.10          | 48.98                   | 68.23             | -19.25      | PK            | PASS   |
| V                        | 8210.89         | 42.35          | 10.88         | 53.23                   | 68.23             | -15.00      | PK            | PASS   |
| V                        | 9815.34         | 37.53          | 13.23         | 50.77                   | 68.23             | -17.46      | PK            | PASS   |
| V                        | 10482.25        | 42.74          | 13.96         | 56.70                   | 68.23             | -11.53      | PK            | PASS   |
| V                        | 14702.59        | 37.71          | 17.57         | 55.28                   | 68.23             | -12.95      | PK            | PASS   |
| V                        | 15721.00        | *              | *             | *                       | 68.23             | *           | PK            | PASS   |
| H                        | 3708.26         | 46.64          | 1.10          | 47.74                   | 68.23             | -20.49      | PK            | PASS   |
| H                        | 8204.39         | 41.36          | 10.86         | 52.22                   | 68.23             | -16.01      | PK            | PASS   |
| H                        | 9809.59         | 35.43          | 13.23         | 48.67                   | 68.23             | -19.56      | PK            | PASS   |
| H                        | 10482.50        | 43.18          | 13.96         | 57.14                   | 68.23             | -11.09      | PK            | PASS   |
| H                        | 14713.33        | 37.48          | 17.59         | 55.07                   | 68.23             | -13.16      | PK            | PASS   |
| H                        | 15721.00        | *              | *             | *                       | 68.23             | *           | PK            | PASS   |
| V                        | 3711.33         | 32.55          | 1.10          | 33.65                   | 54.00             | -20.35      | AV            | PASS   |
| V                        | 8210.89         | 30.16          | 10.88         | 41.03                   | 54.00             | -12.97      | AV            | PASS   |
| V                        | 9815.34         | 24.23          | 13.23         | 37.47                   | 54.00             | -16.53      | AV            | PASS   |
| V                        | 10482.25        | 30.29          | 13.96         | 44.25                   | 54.00             | -9.75       | AV            | PASS   |
| V                        | 14702.59        | 24.50          | 17.57         | 42.06                   | 54.00             | -11.94      | AV            | PASS   |
| V                        | 15721.00        | *              | *             | *                       | 54.00             | *           | AV            | PASS   |
| H                        | 3708.26         | 32.84          | 1.10          | 33.93                   | 54.00             | -20.07      | AV            | PASS   |
| H                        | 8204.39         | 29.92          | 10.86         | 40.78                   | 54.00             | -13.22      | AV            | PASS   |
| H                        | 9809.59         | 23.74          | 13.23         | 36.98                   | 54.00             | -17.02      | AV            | PASS   |
| H                        | 10482.50        | 31.20          | 13.96         | 45.16                   | 54.00             | -8.84       | AV            | PASS   |
| H                        | 14713.33        | 22.15          | 17.59         | 39.74                   | 54.00             | -14.26      | AV            | PASS   |
| H                        | 15721.00        | *              | *             | *                       | 54.00             | *           | AV            | PASS   |

Remark:

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.
2. "\*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

**Radiated Spurious Emission (1GHz-40GHz)**

| Test Mode: 802.11n(HT20) |                 |                |               |                         | CH Low: 5745 MHz |             |               |        |
|--------------------------|-----------------|----------------|---------------|-------------------------|------------------|-------------|---------------|--------|
| Pol.                     | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)   | Margin (dB) | Detector Type | Result |
| V                        | 3214.96         | 46.58          | -0.82         | 45.76                   | 68.23            | -22.47      | PK            | PASS   |
| V                        | 7501.25         | 40.22          | 9.83          | 50.05                   | 68.23            | -18.18      | PK            | PASS   |
| V                        | 9516.81         | 37.24          | 13.20         | 50.44                   | 68.23            | -17.79      | PK            | PASS   |
| V                        | 11492.50        | 43.68          | 15.22         | 58.90                   | 68.23            | -9.33       | PK            | PASS   |
| V                        | 14020.03        | 36.33          | 17.36         | 53.69                   | 68.23            | -14.54      | PK            | PASS   |
| V                        | 17236.50        | *              | *             | *                       | 68.23            | *           | PK            | PASS   |
| H                        | 3201.50         | 45.42          | -0.86         | 44.56                   | 68.23            | -23.67      | PK            | PASS   |
| H                        | 7501.75         | 42.09          | 9.83          | 51.92                   | 68.23            | -16.31      | PK            | PASS   |
| H                        | 9501.25         | 36.53          | 13.14         | 49.67                   | 68.23            | -18.56      | PK            | PASS   |
| H                        | 11491.25        | 43.85          | 15.22         | 59.07                   | 68.23            | -9.16       | PK            | PASS   |
| H                        | 14005.35        | 36.08          | 17.34         | 53.42                   | 68.23            | -14.81      | PK            | PASS   |
| H                        | 17235.75        | *              | *             | *                       | 68.23            | *           | PK            | PASS   |
| V                        | 3214.96         | 34.66          | -0.82         | 33.84                   | 54.00            | -20.16      | AV            | PASS   |
| V                        | 7501.25         | 30.91          | 9.83          | 40.74                   | 54.00            | -13.26      | AV            | PASS   |
| V                        | 9516.81         | 22.28          | 13.20         | 35.48                   | 54.00            | -18.52      | AV            | PASS   |
| V                        | 11492.50        | 31.31          | 15.22         | 46.53                   | 54.00            | -7.47       | AV            | PASS   |
| V                        | 14020.03        | 23.56          | 17.36         | 40.92                   | 54.00            | -13.08      | AV            | PASS   |
| V                        | 17236.50        | *              | *             | *                       | 54.00            | *           | AV            | PASS   |
| H                        | 3201.50         | 34.63          | -0.86         | 33.77                   | 54.00            | -20.23      | AV            | PASS   |
| H                        | 7501.75         | 28.83          | 9.83          | 38.66                   | 54.00            | -15.34      | AV            | PASS   |
| H                        | 9501.25         | 24.57          | 13.14         | 37.71                   | 54.00            | -16.29      | AV            | PASS   |
| H                        | 11491.25        | 31.42          | 15.22         | 46.64                   | 54.00            | -7.36       | AV            | PASS   |
| H                        | 14005.35        | 24.86          | 17.34         | 42.20                   | 54.00            | -11.80      | AV            | PASS   |
| H                        | 17235.75        | *              | *             | *                       | 54.00            | *           | AV            | PASS   |

Remark:

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.
2. "\*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

**Radiated Spurious Emission (1GHz-40GHz)**

| Test Mode: 802.11n(HT20) |                 |                |               |                         | CH Middle: 5785 MHz |             |               |        |
|--------------------------|-----------------|----------------|---------------|-------------------------|---------------------|-------------|---------------|--------|
| Pol.                     | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)      | Margin (dB) | Detector Type | Result |
| V                        | 3413.30         | 45.98          | -0.09         | 45.89                   | 68.23               | -22.34      | PK            | PASS   |
| V                        | 8014.11         | 41.63          | 10.36         | 51.98                   | 68.23               | -16.25      | PK            | PASS   |
| V                        | 9710.73         | 37.05          | 13.20         | 50.26                   | 68.23               | -17.97      | PK            | PASS   |
| V                        | 11572.50        | 43.93          | 15.31         | 59.24                   | 68.23               | -8.99       | PK            | PASS   |
| V                        | 14316.53        | 36.19          | 17.46         | 53.64                   | 68.23               | -14.59      | PK            | PASS   |
| V                        | 17356.25        | *              | *             | *                       | 68.23               | *           | PK            | PASS   |
| H                        | 3407.00         | 45.50          | -0.11         | 45.39                   | 68.23               | -22.84      | PK            | PASS   |
| H                        | 8015.74         | 42.34          | 10.36         | 52.70                   | 68.23               | -15.53      | PK            | PASS   |
| H                        | 9701.34         | 35.93          | 13.20         | 49.13                   | 68.23               | -19.10      | PK            | PASS   |
| H                        | 11571.50        | 44.49          | 15.31         | 59.80                   | 68.23               | -8.43       | PK            | PASS   |
| H                        | 14303.92        | 37.16          | 17.44         | 54.59                   | 68.23               | -13.64      | PK            | PASS   |
| H                        | 17357.50        | *              | *             | *                       | 68.23               | *           | PK            | PASS   |
| V                        | 3413.30         | 32.08          | -0.09         | 31.99                   | 54.00               | -22.01      | AV            | PASS   |
| V                        | 8014.11         | 29.91          | 10.36         | 40.27                   | 54.00               | -13.73      | AV            | PASS   |
| V                        | 9710.73         | 24.55          | 13.20         | 37.75                   | 54.00               | -16.25      | AV            | PASS   |
| V                        | 11572.50        | 32.59          | 15.31         | 47.90                   | 54.00               | -6.10       | AV            | PASS   |
| V                        | 14316.53        | 22.40          | 17.46         | 39.86                   | 54.00               | -14.14      | AV            | PASS   |
| V                        | 17356.25        | *              | *             | *                       | 54.00               | *           | AV            | PASS   |
| H                        | 3407.00         | 33.67          | -0.11         | 33.56                   | 54.00               | -20.44      | AV            | PASS   |
| H                        | 8015.74         | 29.81          | 10.36         | 40.17                   | 54.00               | -13.83      | AV            | PASS   |
| H                        | 9701.34         | 22.20          | 13.20         | 35.40                   | 54.00               | -18.60      | AV            | PASS   |
| H                        | 11571.50        | 31.74          | 15.31         | 47.05                   | 54.00               | -6.95       | AV            | PASS   |
| H                        | 14303.92        | 22.60          | 17.44         | 40.04                   | 54.00               | -13.96      | AV            | PASS   |
| H                        | 17357.50        | *              | *             | *                       | 54.00               | *           | AV            | PASS   |

Remark:

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.
2. "\*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

**Radiated Spurious Emission (1GHz-40GHz)**

| Test Mode: 802.11n(HT20) |                 |                |               |                         | CH High: 5825MHz |             |               |        |
|--------------------------|-----------------|----------------|---------------|-------------------------|------------------|-------------|---------------|--------|
| Pol.                     | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)   | Margin (dB) | Detector Type | Result |
| V                        | 3709.97         | 47.00          | 1.10          | 48.10                   | 68.23            | -20.13      | PK            | PASS   |
| V                        | 8207.66         | 41.46          | 10.87         | 52.33                   | 68.23            | -15.90      | PK            | PASS   |
| V                        | 9802.29         | 36.00          | 13.23         | 49.23                   | 68.23            | -19.00      | PK            | PASS   |
| V                        | 11650.75        | 43.18          | 15.39         | 58.57                   | 68.23            | -9.66       | PK            | PASS   |
| V                        | 14706.70        | 36.79          | 17.57         | 54.37                   | 68.23            | -13.86      | PK            | PASS   |
| V                        | 17477.50        | *              | *             | *                       | 68.23            | *           | PK            | PASS   |
| H                        | 3711.73         | 46.45          | 1.10          | 47.55                   | 68.23            | -20.68      | PK            | PASS   |
| H                        | 8220.37         | 41.73          | 10.90         | 52.64                   | 68.23            | -15.59      | PK            | PASS   |
| H                        | 9805.41         | 36.39          | 13.23         | 49.62                   | 68.23            | -18.61      | PK            | PASS   |
| H                        | 11651.75        | 44.66          | 15.39         | 60.06                   | 68.23            | -8.17       | PK            | PASS   |
| H                        | 14706.99        | 36.80          | 17.57         | 54.38                   | 68.23            | -13.85      | PK            | PASS   |
| H                        | 17476.00        | *              | *             | *                       | 68.23            | *           | PK            | PASS   |
| V                        | 3709.97         | 32.88          | 1.10          | 33.98                   | 54.00            | -20.02      | AV            | PASS   |
| V                        | 8207.66         | 30.27          | 10.87         | 41.14                   | 54.00            | -12.86      | AV            | PASS   |
| V                        | 9802.29         | 24.41          | 13.23         | 37.64                   | 54.00            | -16.36      | AV            | PASS   |
| V                        | 11650.75        | 31.52          | 15.39         | 46.91                   | 54.00            | -7.09       | AV            | PASS   |
| V                        | 14706.70        | 24.34          | 17.57         | 41.91                   | 54.00            | -12.09      | AV            | PASS   |
| V                        | 17477.50        | *              | *             | *                       | 54.00            | *           | AV            | PASS   |
| H                        | 3711.73         | 32.23          | 1.10          | 33.34                   | 54.00            | -20.66      | AV            | PASS   |
| H                        | 8220.37         | 28.14          | 10.90         | 39.05                   | 54.00            | -14.95      | AV            | PASS   |
| H                        | 9805.41         | 22.84          | 13.23         | 36.07                   | 54.00            | -17.93      | AV            | PASS   |
| H                        | 11651.75        | 31.24          | 15.39         | 46.63                   | 54.00            | -7.37       | AV            | PASS   |
| H                        | 14706.99        | 24.24          | 17.57         | 41.81                   | 54.00            | -12.19      | AV            | PASS   |
| H                        | 17476.00        | *              | *             | *                       | 54.00            | *           | AV            | PASS   |

Remark:

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.
2. "\*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

## **ANNEX A TEST SETUP PHOTOS**

Please refer to the document "8429EU011208W1-ANNEX A.PDF"

## **ANNEX B EXTERNAL PHOTOS**

Please refer to the document "8429EU011208W1-ANNEX B.PDF"

## **ANNEX C INTERNAL PHOTOS**

Please refer to the document "8429EU011208W1-ANNEX C.PDF"



## ANNEX D TEST DATA

### 1. Duty Cycle

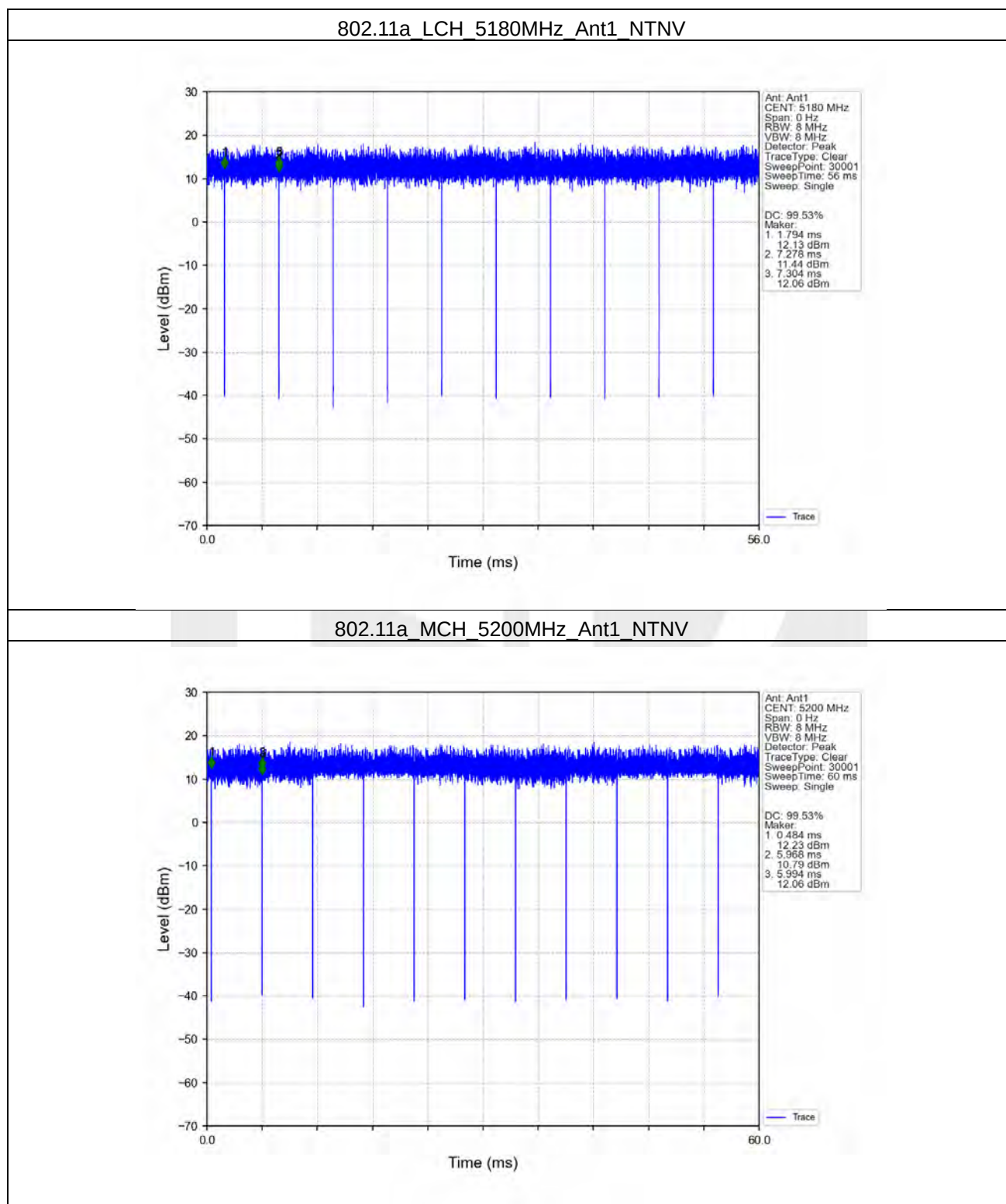
#### 1.1 Test Result

##### 1.1.1 Ant1

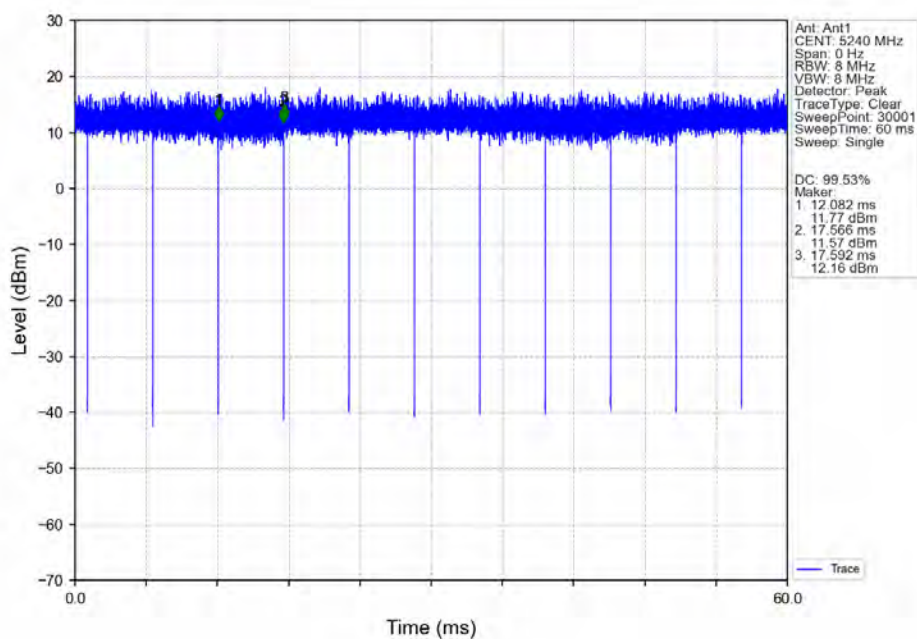
| Ant1             |         |                 |    |        |           |             |                |                                   |                       |
|------------------|---------|-----------------|----|--------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode             | TX Type | Frequency (MHz) | RU | RU Pos | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 802.11a          | SISO    | 5180            | /  | /      | 5.484     | 5.510       | 99.53          | 0.02                              | 0.00                  |
|                  |         | 5200            | /  | /      | 5.484     | 5.510       | 99.53          | 0.02                              | 0.04                  |
|                  |         | 5240            | /  | /      | 5.484     | 5.510       | 99.53          | 0.02                              | 0.04                  |
|                  |         | 5745            | /  | /      | 5.484     | 5.510       | 99.53          | 0.02                              | 0.00                  |
|                  |         | 5785            | /  | /      | 5.484     | 5.510       | 99.53          | 0.02                              | 0.03                  |
|                  |         | 5825            | /  | /      | 5.484     | 5.510       | 99.53          | 0.02                              | 0.04                  |
| 802.11n (HT20)   | SISO    | 5180            | /  | /      | 5.080     | 5.105       | 99.51          | 0.02                              | 0.00                  |
|                  |         | 5200            | /  | /      | 5.079     | 5.105       | 99.49          | 0.02                              | 0.00                  |
|                  |         | 5240            | /  | /      | 5.081     | 5.107       | 99.49          | 0.02                              | 0.04                  |
|                  |         | 5745            | /  | /      | 5.080     | 5.107       | 99.47          | 0.02                              | 0.04                  |
|                  |         | 5785            | /  | /      | 5.080     | 5.105       | 99.51          | 0.02                              | 0.00                  |
|                  |         | 5825            | /  | /      | 5.079     | 5.106       | 99.47          | 0.02                              | 0.04                  |
| 802.11n (HT40)   | SISO    | 5190            | /  | /      | 2.468     | 2.494       | 98.96          | 0.05                              | 0.03                  |
|                  |         | 5230            | /  | /      | 2.468     | 2.494       | 98.96          | 0.05                              | 0.03                  |
|                  |         | 5755            | /  | /      | 2.468     | 2.494       | 98.96          | 0.05                              | 0.03                  |
|                  |         | 5795            | /  | /      | 2.469     | 2.495       | 98.96          | 0.05                              | 0.03                  |
| 802.11ac (VHT20) | SISO    | 5180            | /  | /      | 5.094     | 5.119       | 99.51          | 0.02                              | 0.00                  |
|                  |         | 5200            | /  | /      | 5.093     | 5.119       | 99.49          | 0.02                              | 0.04                  |
|                  |         | 5240            | /  | /      | 5.092     | 5.118       | 99.49          | 0.02                              | 0.00                  |
|                  |         | 5745            | /  | /      | 5.093     | 5.120       | 99.47          | 0.02                              | 0.04                  |
|                  |         | 5785            | /  | /      | 5.092     | 5.119       | 99.47          | 0.02                              | 0.04                  |
|                  |         | 5825            | /  | /      | 5.094     | 5.120       | 99.49          | 0.02                              | 0.04                  |
| 802.11ax (HEW20) | SISO    | 5180            | SU | /      | 3.872     | 3.899       | 99.31          | 0.03                              | 0.04                  |
|                  |         | 5200            | SU | /      | 3.872     | 3.899       | 99.31          | 0.03                              | 0.03                  |
|                  |         | 5240            | SU | /      | 3.872     | 3.899       | 99.31          | 0.03                              | 0.04                  |
|                  |         | 5745            | SU | /      | 3.872     | 3.898       | 99.33          | 0.03                              | 0.03                  |
|                  |         | 5785            | SU | /      | 3.874     | 3.900       | 99.33          | 0.03                              | 0.03                  |
|                  |         | 5825            | SU | /      | 3.873     | 3.899       | 99.33          | 0.03                              | 0.04                  |

## 1.2 Test Graph

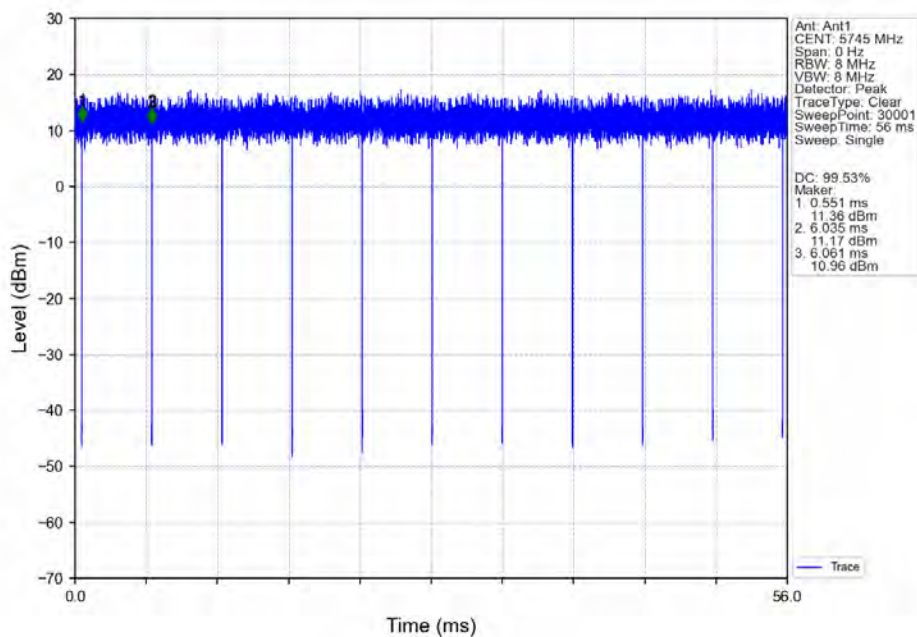
### 1.2.1 Ant1



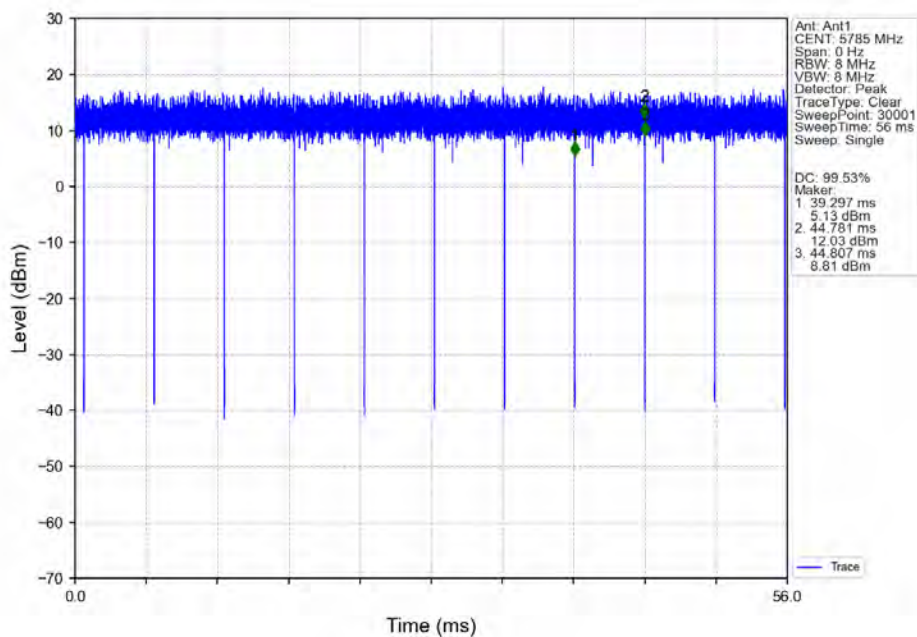
### 802.11a HCH 5240MHz Ant1 NTN



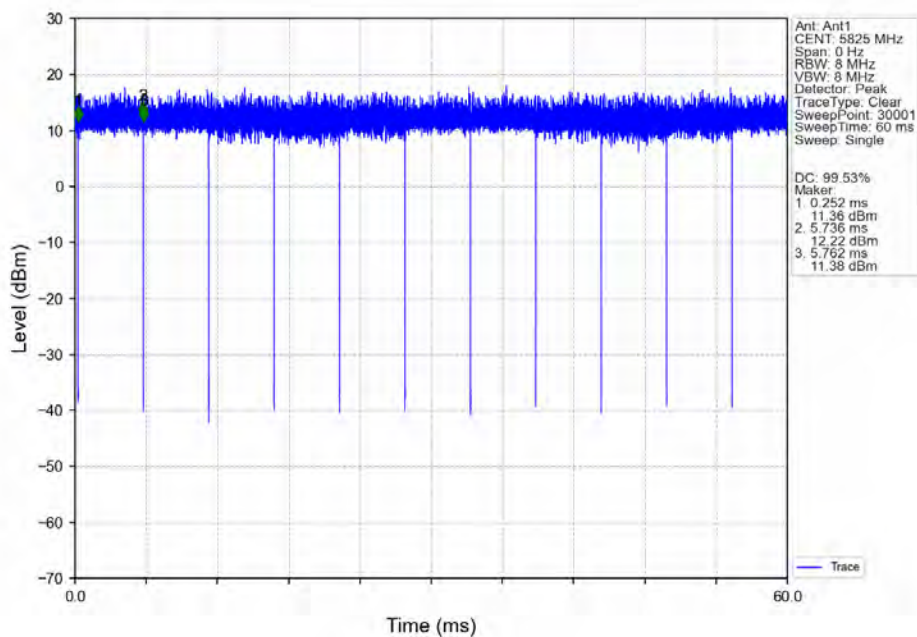
### 802.11a LCH 5745MHz Ant1 NTN



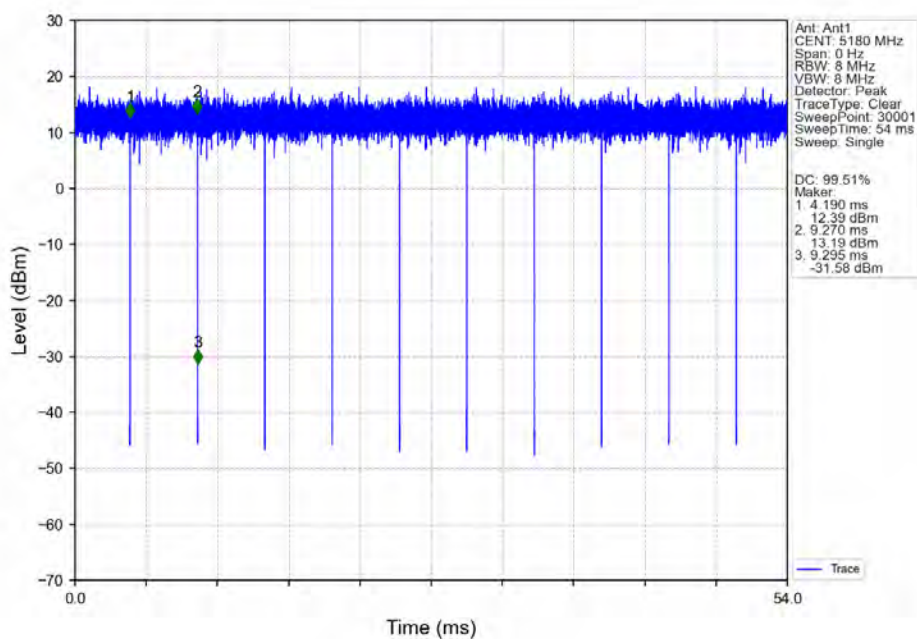
### 802.11a MCH\_5785MHz\_Ant1\_NTNV



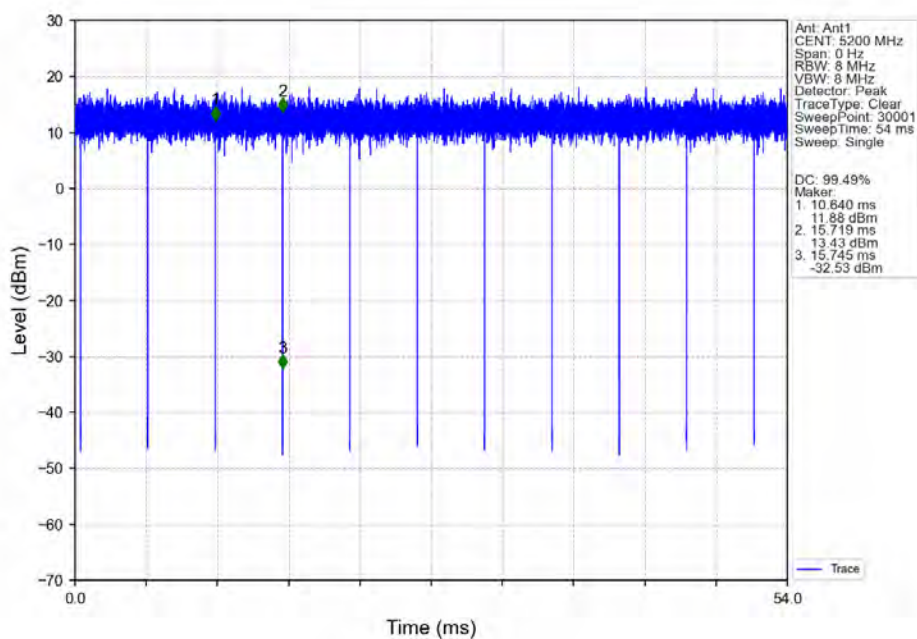
### 802.11a HCH\_5825MHz\_Ant1\_NTNV



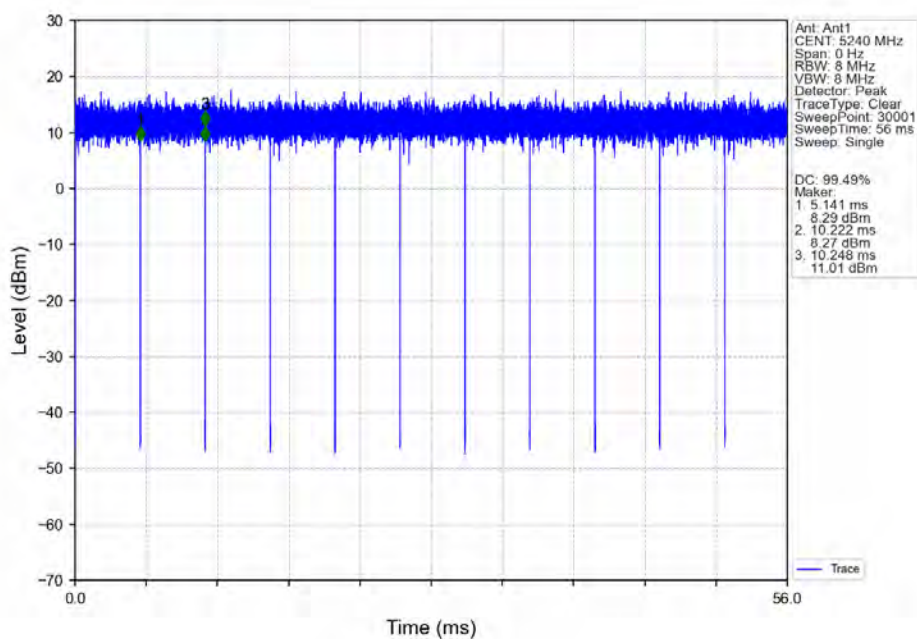
802.11n(HT20) LCH 5180MHz Ant1 NTN



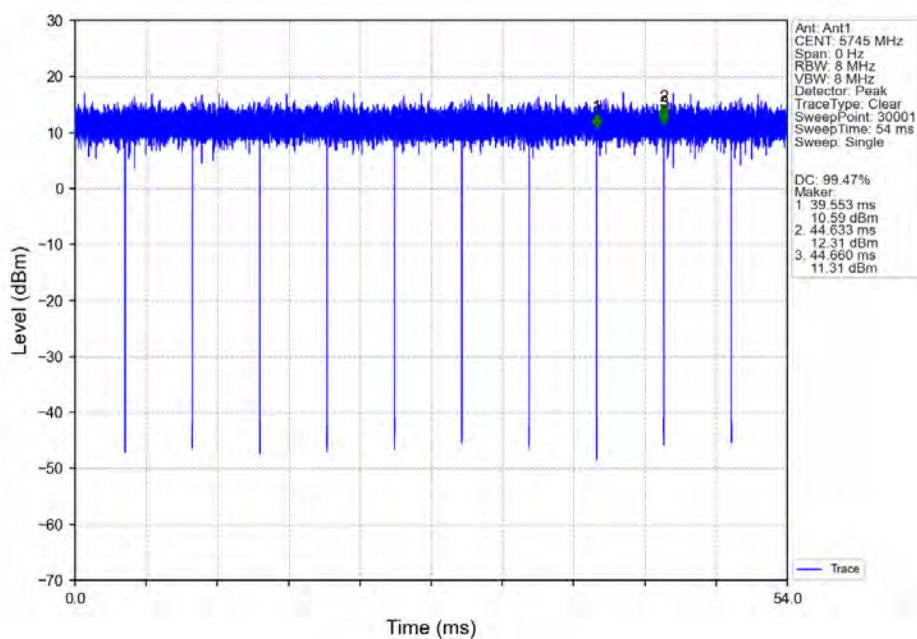
802.11n(HT20) MCH 5200MHz Ant1 NTN



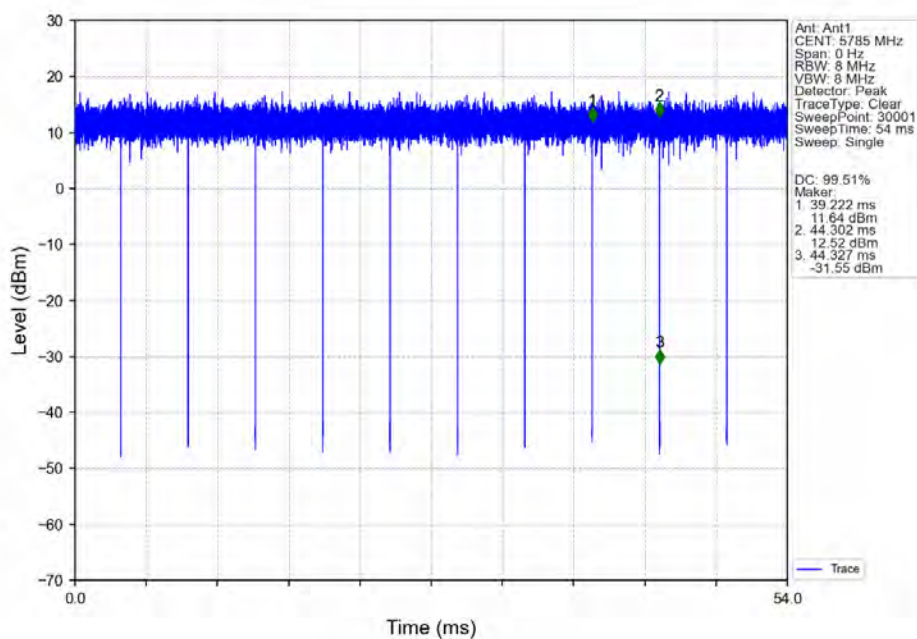
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



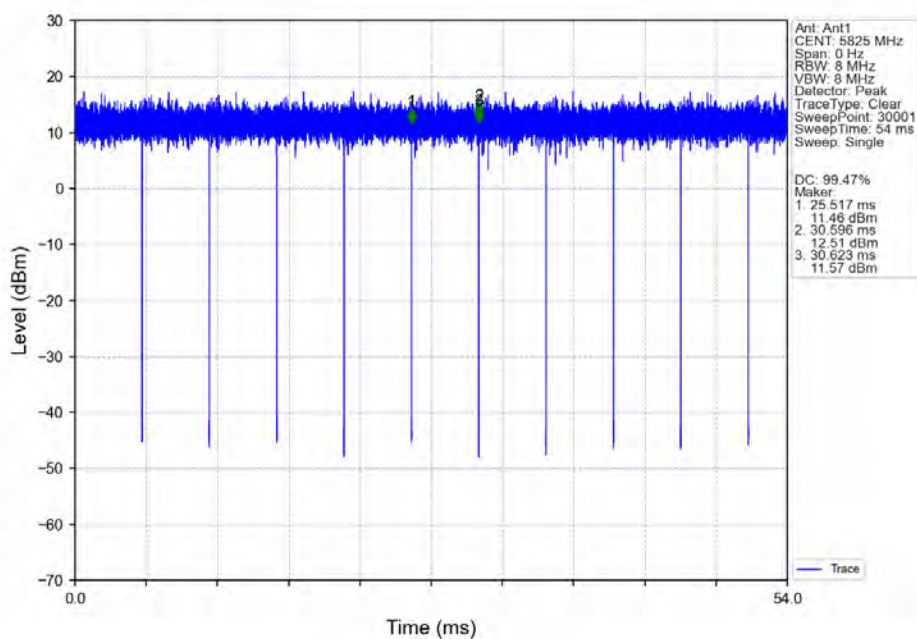
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



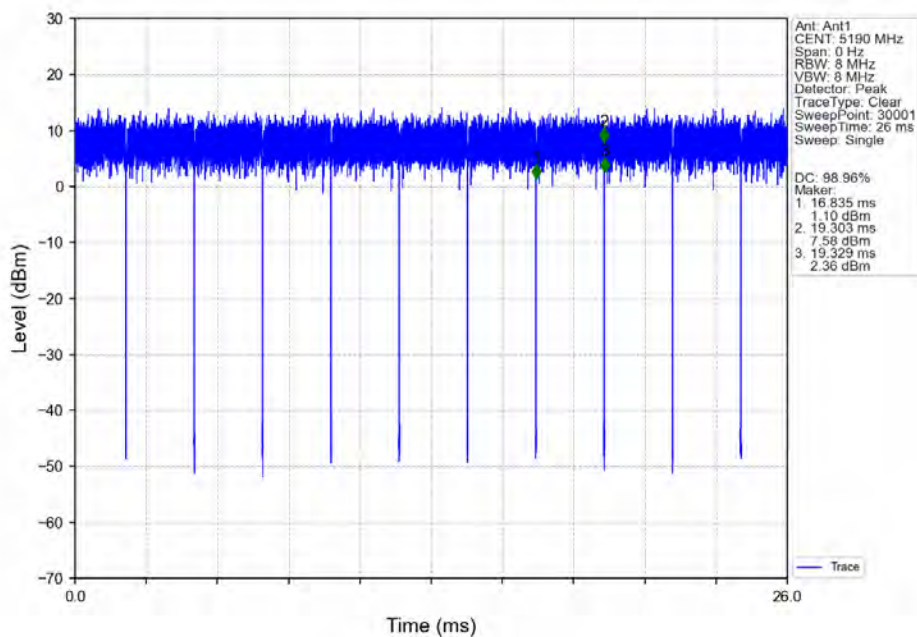
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



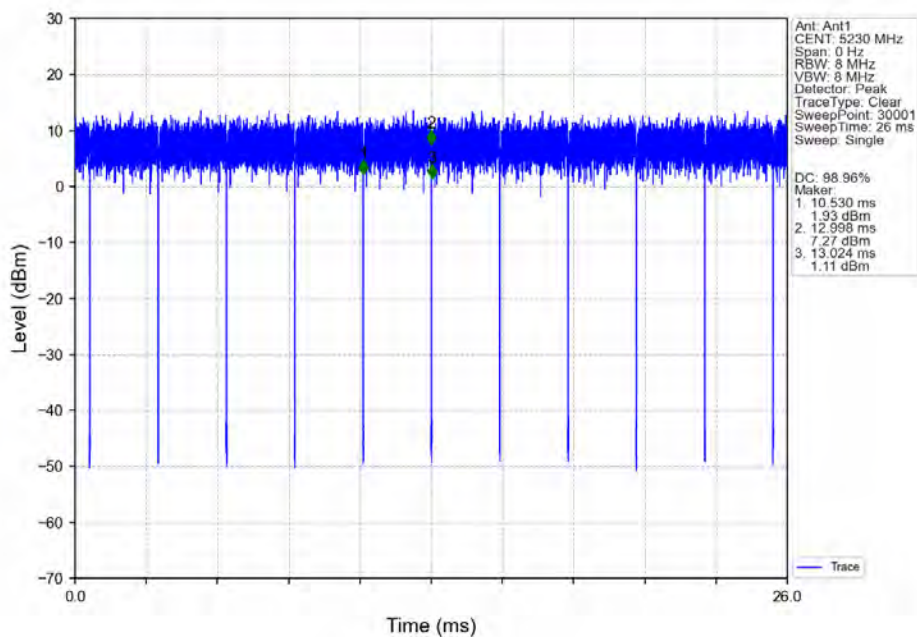
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



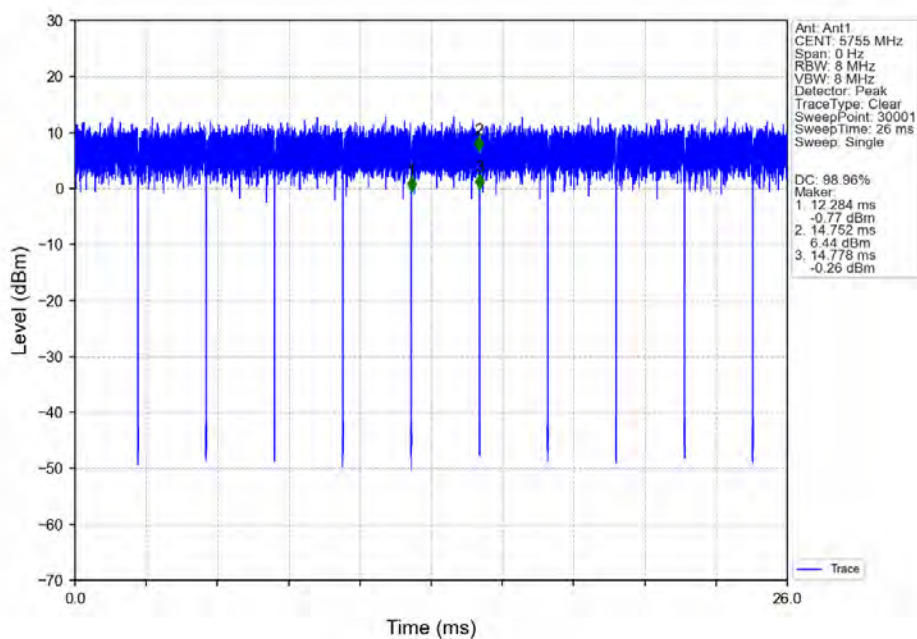
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



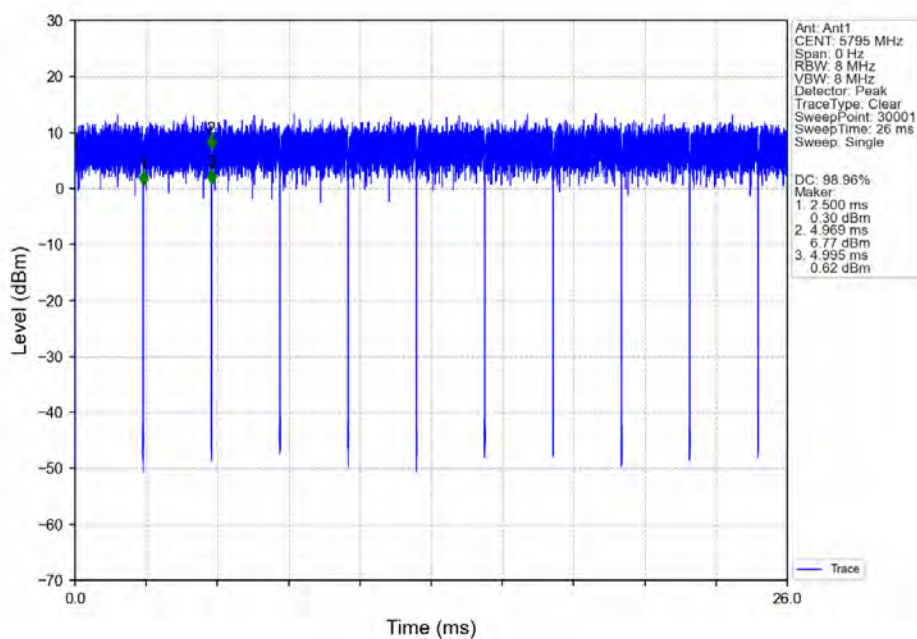
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



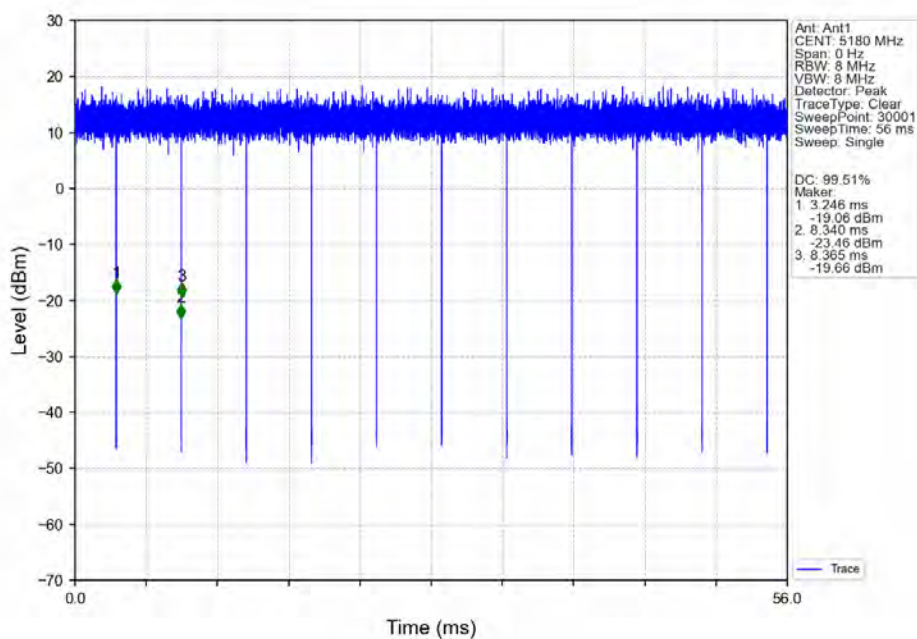
802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



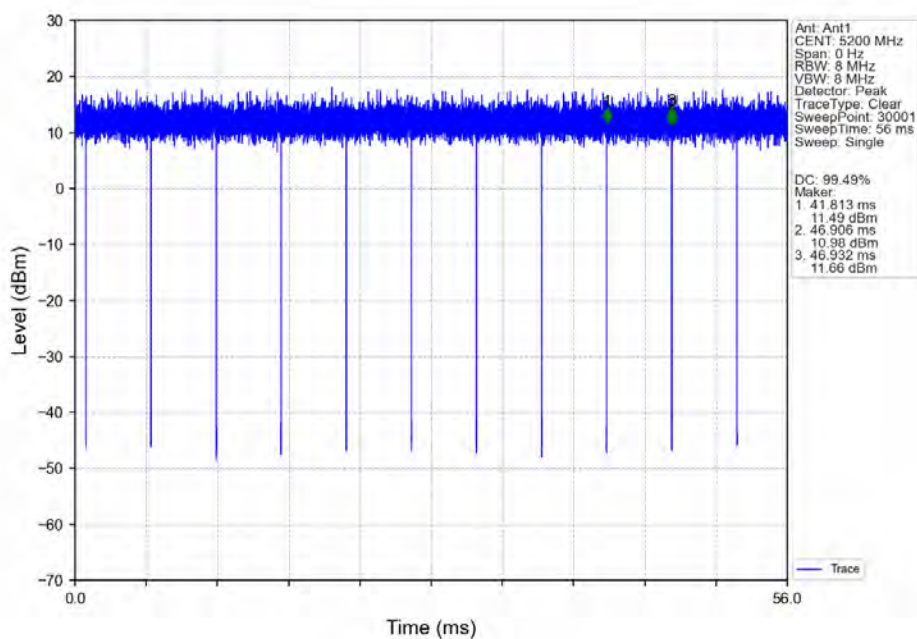
802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



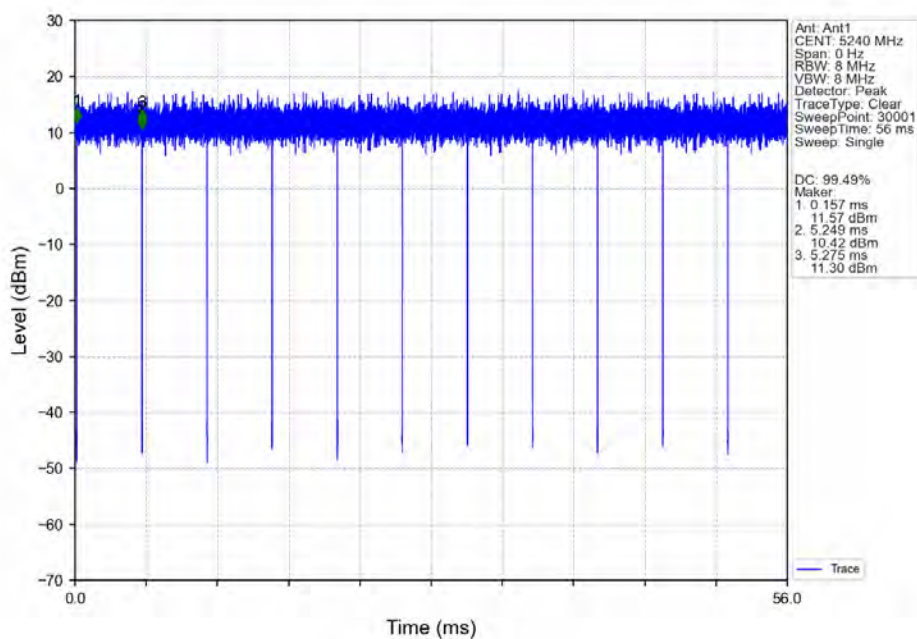
802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



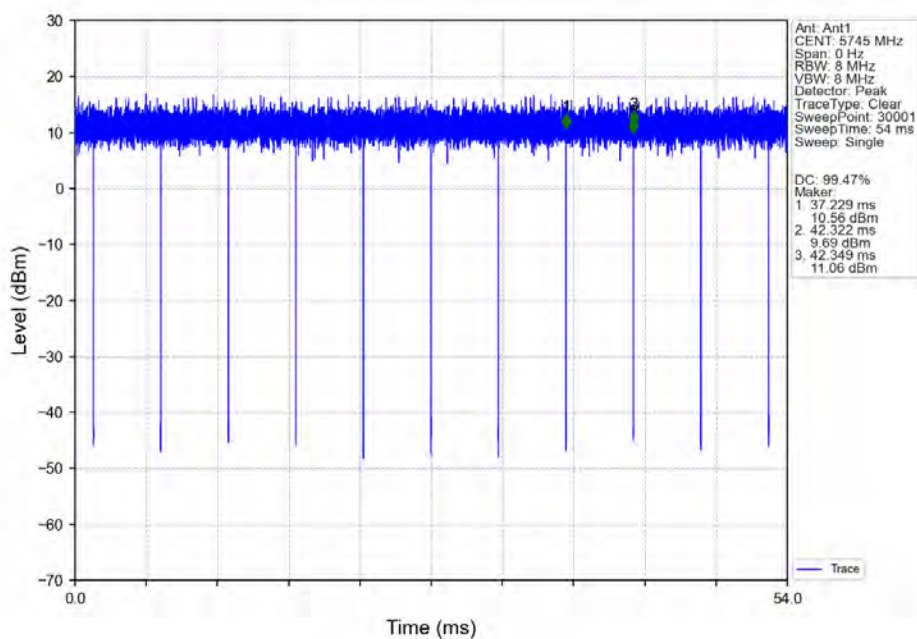
802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



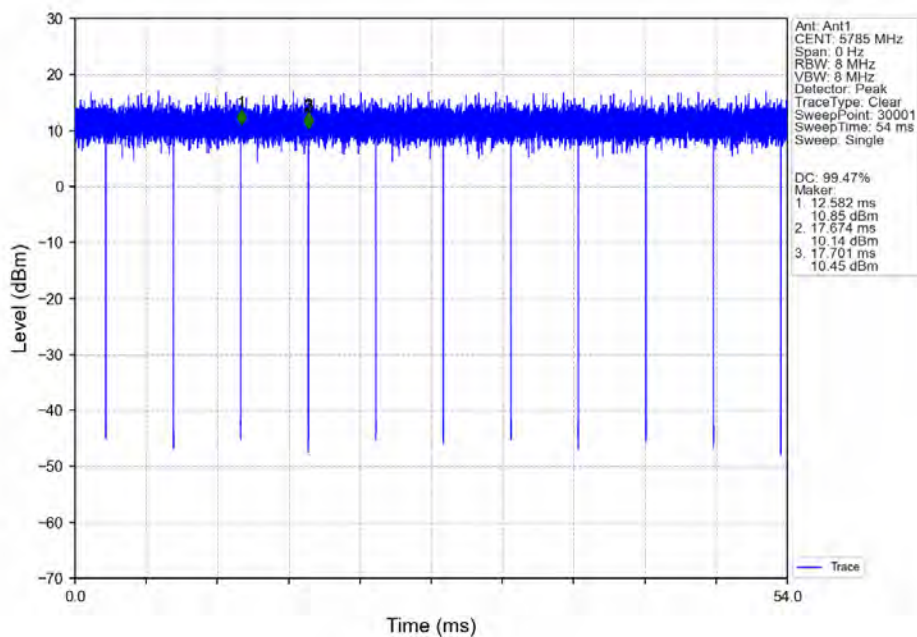
802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



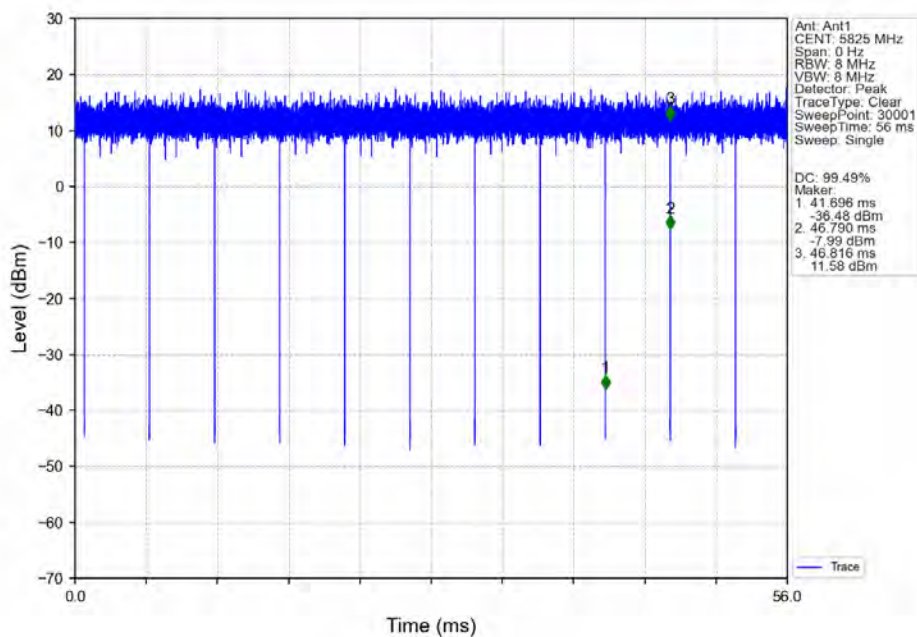
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



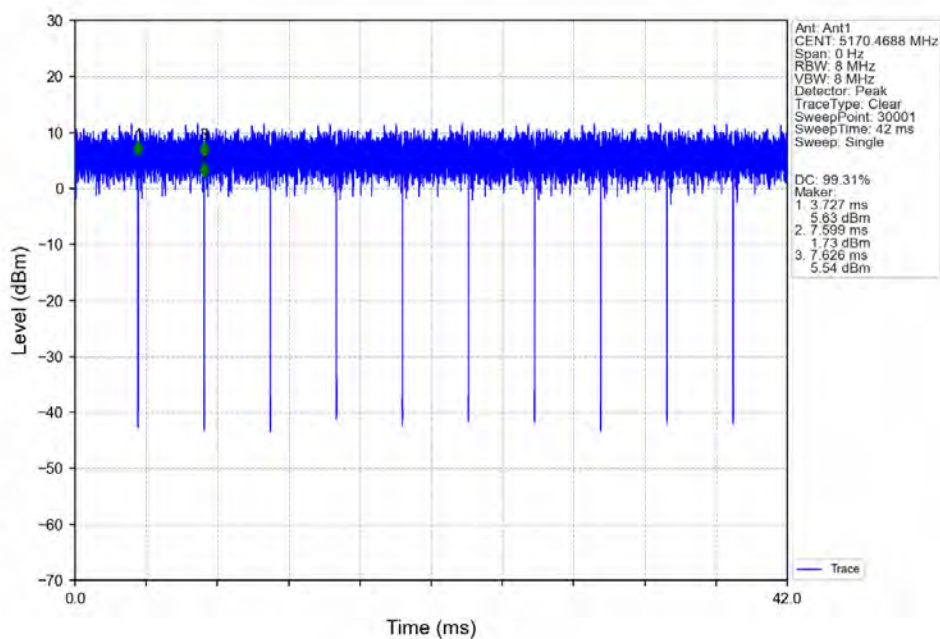
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



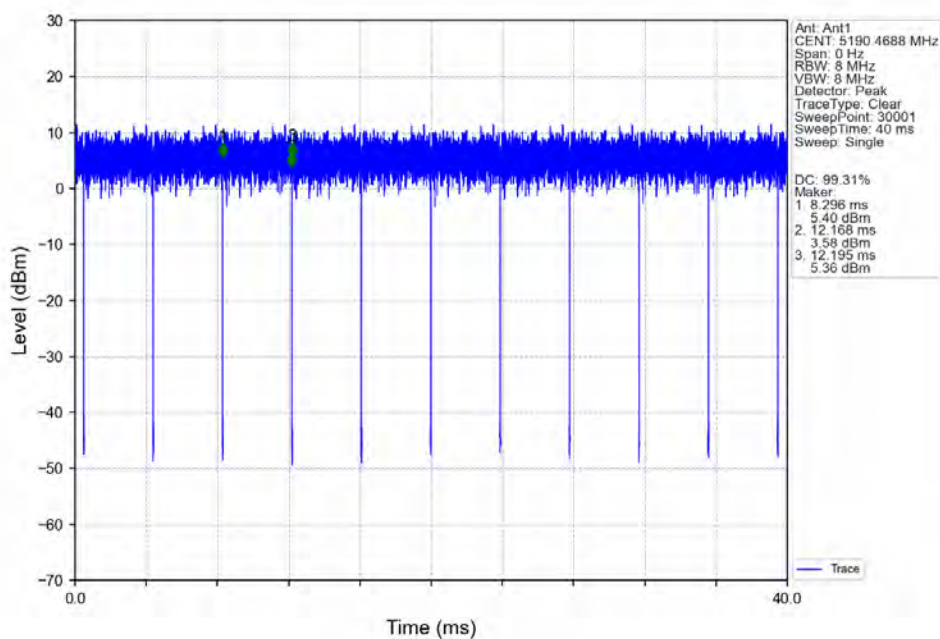
802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



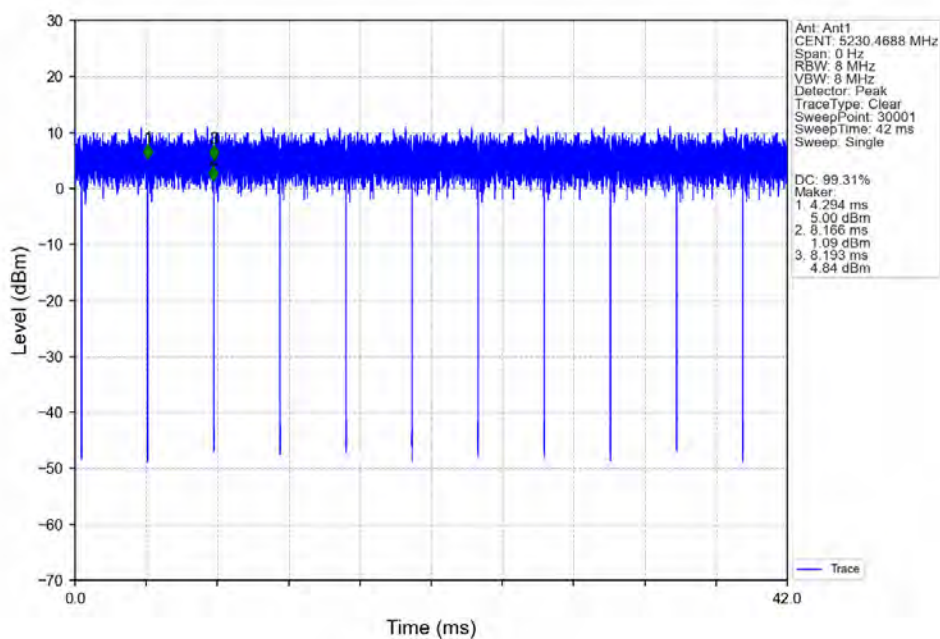
802.11ax(HEW20)\_LCH\_5180MHz\_SU / Ant1\_NTNV



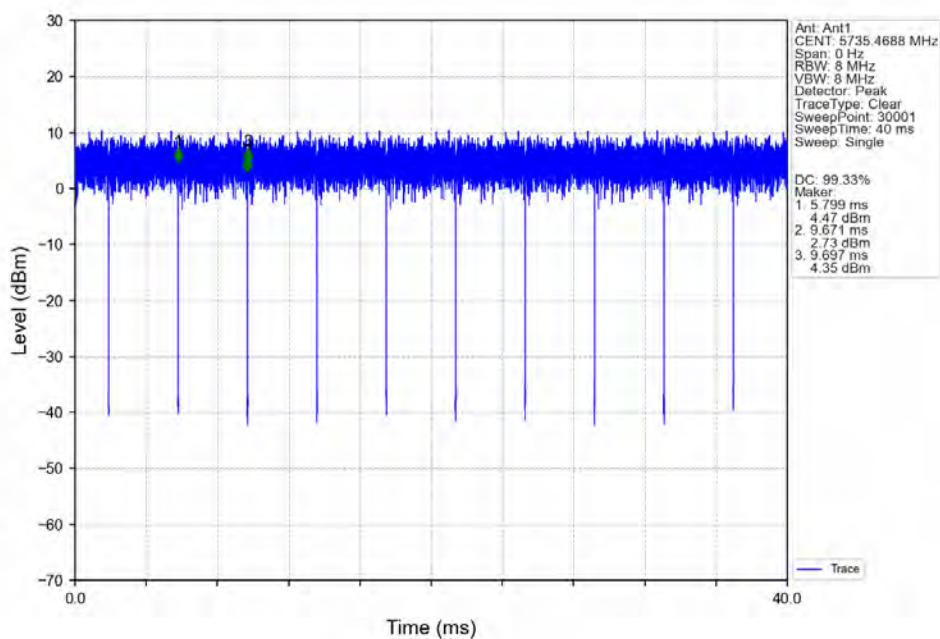
802.11ax(HEW20)\_MCH\_5200MHz\_SU / Ant1\_NTNV



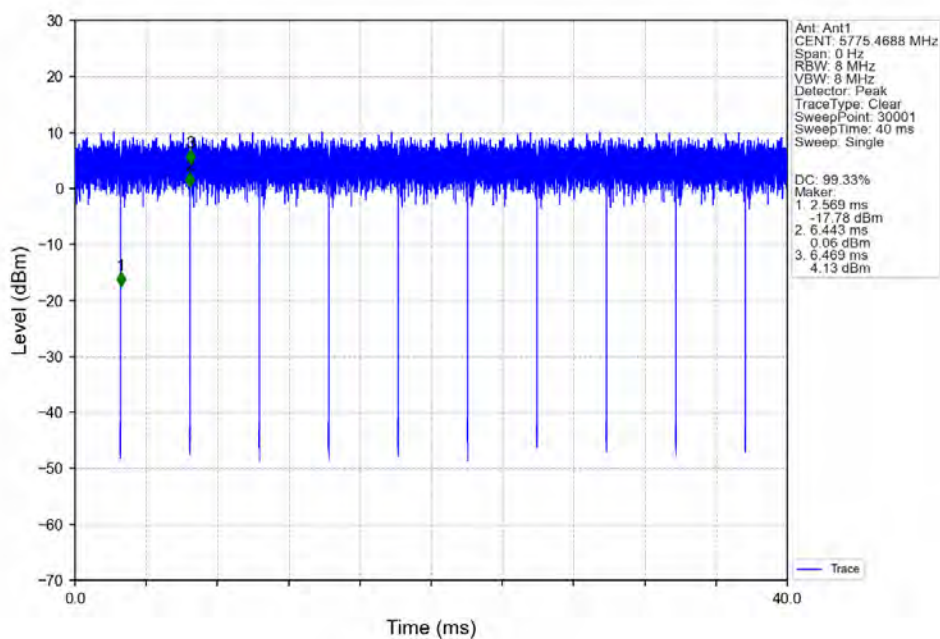
802.11ax(HEW20) HCH 5240MHz SU / Ant1 NTN



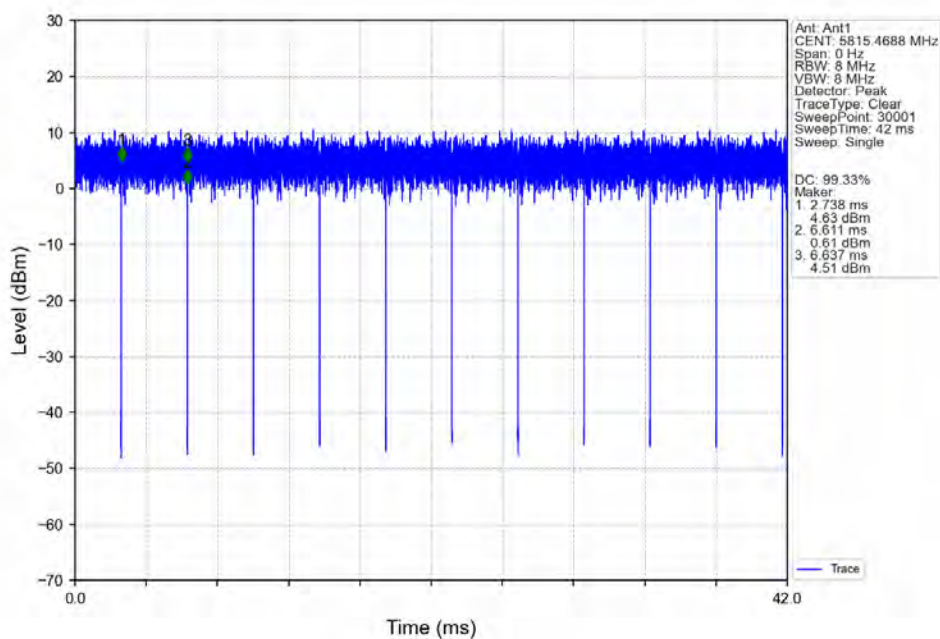
802.11ax(HEW20) LCH 5745MHz SU / Ant1 NTN



802.11ax(HEW20) MCH\_5785MHz\_SU / Ant1\_NTNV



802.11ax(HEW20) HCH\_5825MHz\_SU / Ant1\_NTNV



## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

| Mode             | TX Type | Frequency (MHz) | RU | RU Pos | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|------------------|---------|-----------------|----|--------|-----|------------------------------|-------|---------|
|                  |         |                 |    |        |     | Result                       | Limit |         |
| 802.11a          | SISO    | 5180            | /  | /      | 1   | 16.437                       | /     | Pass    |
|                  |         | 5200            | /  | /      | 1   | 16.425                       | /     | Pass    |
|                  |         | 5240            | /  | /      | 1   | 16.419                       | /     | Pass    |
|                  |         | 5745            | /  | /      | 1   | 16.430                       | /     | Pass    |
|                  |         | 5785            | /  | /      | 1   | 16.412                       | /     | Pass    |
|                  |         | 5825            | /  | /      | 1   | 16.424                       | /     | Pass    |
| 802.11n (HT20)   | SISO    | 5180            | /  | /      | 1   | 17.565                       | /     | Pass    |
|                  |         | 5200            | /  | /      | 1   | 17.573                       | /     | Pass    |
|                  |         | 5240            | /  | /      | 1   | 17.576                       | /     | Pass    |
|                  |         | 5745            | /  | /      | 1   | 17.566                       | /     | Pass    |
|                  |         | 5785            | /  | /      | 1   | 17.559                       | /     | Pass    |
|                  |         | 5825            | /  | /      | 1   | 17.581                       | /     | Pass    |
| 802.11n (HT40)   | SISO    | 5190            | /  | /      | 1   | 36.112                       | /     | Pass    |
|                  |         | 5230            | /  | /      | 1   | 36.093                       | /     | Pass    |
|                  |         | 5755            | /  | /      | 1   | 36.152                       | /     | Pass    |
|                  |         | 5795            | /  | /      | 1   | 36.124                       | /     | Pass    |
| 802.11ac (VHT20) | SISO    | 5180            | /  | /      | 1   | 17.564                       | /     | Pass    |
|                  |         | 5200            | /  | /      | 1   | 17.571                       | /     | Pass    |
|                  |         | 5240            | /  | /      | 1   | 17.600                       | /     | Pass    |
|                  |         | 5745            | /  | /      | 1   | 17.553                       | /     | Pass    |
|                  |         | 5785            | /  | /      | 1   | 17.585                       | /     | Pass    |
|                  |         | 5825            | /  | /      | 1   | 17.544                       | /     | Pass    |
| 802.11ax (HEW20) | SISO    | 5180            | SU | /      | 1   | 18.828                       | /     | Pass    |
|                  |         | 5200            | SU | /      | 1   | 18.821                       | /     | Pass    |
|                  |         | 5240            | SU | /      | 1   | 18.870                       | /     | Pass    |
|                  |         | 5745            | SU | /      | 1   | 18.826                       | /     | Pass    |
|                  |         | 5785            | SU | /      | 1   | 18.821                       | /     | Pass    |
|                  |         | 5825            | SU | /      | 1   | 18.830                       | /     | Pass    |

### 2.1.2 26dB BW

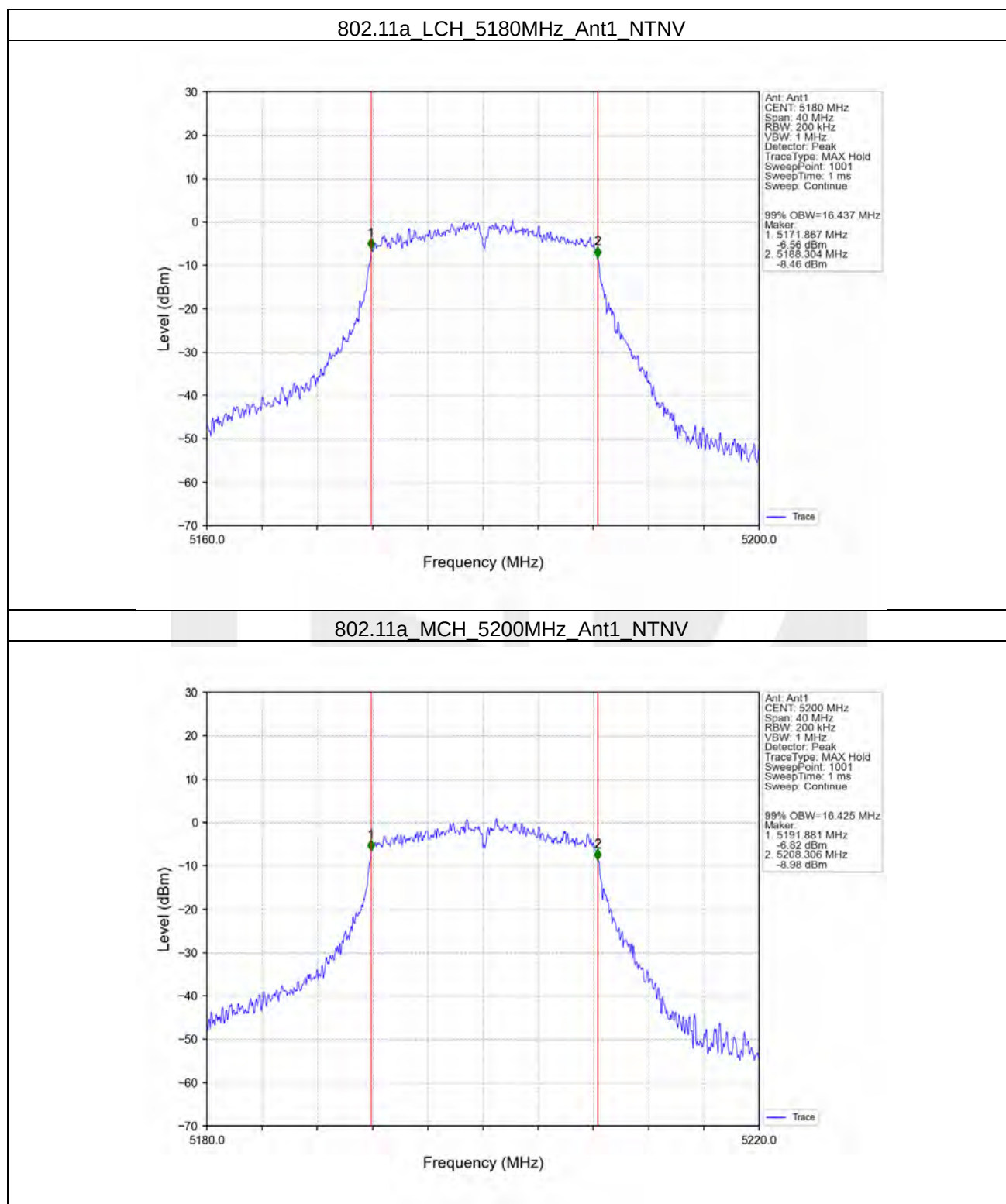
| Mode             | TX Type | Frequency (MHz) | RU | RU Pos | ANT | 26dB Bandwidth (MHz) |       | Verdict |
|------------------|---------|-----------------|----|--------|-----|----------------------|-------|---------|
|                  |         |                 |    |        |     | Result               | Limit |         |
| 802.11a          | SISO    | 5180            | /  | /      | 1   | 19.870               | /     | Pass    |
|                  |         | 5200            | /  | /      | 1   | 19.807               | /     | Pass    |
|                  |         | 5240            | /  | /      | 1   | 20.501               | /     | Pass    |
| 802.11n (HT20)   | SISO    | 5180            | /  | /      | 1   | 21.147               | /     | Pass    |
|                  |         | 5200            | /  | /      | 1   | 21.027               | /     | Pass    |
|                  |         | 5240            | /  | /      | 1   | 21.548               | /     | Pass    |
| 802.11n (HT40)   | SISO    | 5190            | /  | /      | 1   | 41.042               | /     | Pass    |
|                  |         | 5230            | /  | /      | 1   | 41.113               | /     | Pass    |
| 802.11ac (VHT20) | SISO    | 5180            | /  | /      | 1   | 20.969               | /     | Pass    |
|                  |         | 5200            | /  | /      | 1   | 21.337               | /     | Pass    |
|                  |         | 5240            | /  | /      | 1   | 21.053               | /     | Pass    |
| 802.11ax (HEW20) | SISO    | 5180            | SU | /      | 1   | 21.150               | /     | Pass    |
|                  |         | 5200            | SU | /      | 1   | 20.871               | /     | Pass    |
|                  |         | 5240            | SU | /      | 1   | 21.310               | /     | Pass    |

### 2.1.3 6dB BW

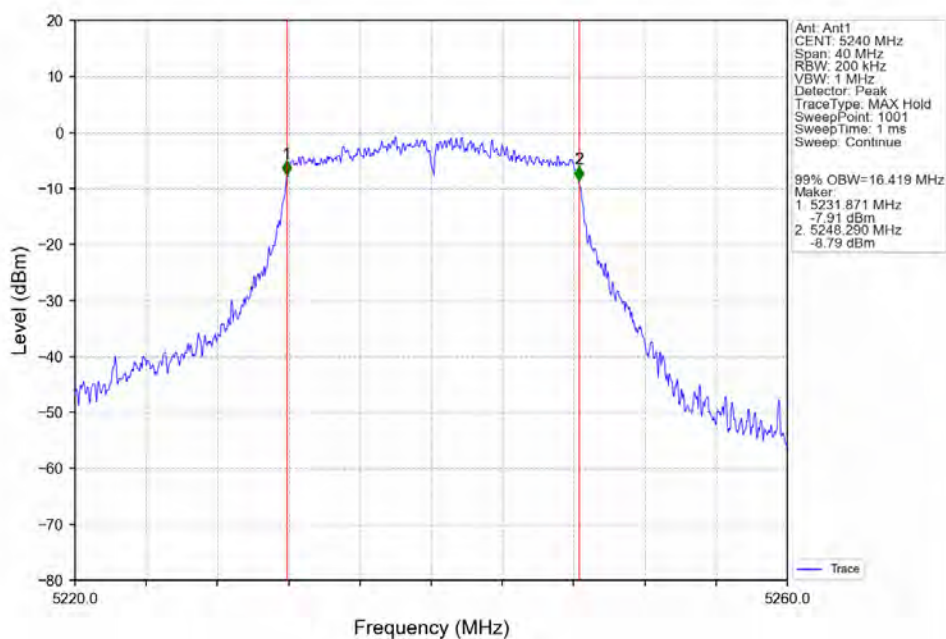
| Mode             | TX Type | Frequency (MHz) | RU | RU Pos | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|------------------|---------|-----------------|----|--------|-----|---------------------|------------|---------|
|                  |         |                 |    |        |     | Result              | Limit      |         |
| 802.11a          | SISO    | 5745            | /  | /      | 1   | 15.821              | $\geq 0.5$ | Pass    |
|                  |         | 5785            | /  | /      | 1   | 16.362              | $\geq 0.5$ | Pass    |
|                  |         | 5825            | /  | /      | 1   | 14.925              | $\geq 0.5$ | Pass    |
| 802.11n (HT20)   | SISO    | 5745            | /  | /      | 1   | 16.325              | $\geq 0.5$ | Pass    |
|                  |         | 5785            | /  | /      | 1   | 17.598              | $\geq 0.5$ | Pass    |
|                  |         | 5825            | /  | /      | 1   | 15.982              | $\geq 0.5$ | Pass    |
| 802.11n (HT40)   | SISO    | 5755            | /  | /      | 1   | 33.849              | $\geq 0.5$ | Pass    |
|                  |         | 5795            | /  | /      | 1   | 35.108              | $\geq 0.5$ | Pass    |
| 802.11ac (VHT20) | SISO    | 5745            | /  | /      | 1   | 15.473              | $\geq 0.5$ | Pass    |
|                  |         | 5785            | /  | /      | 1   | 17.279              | $\geq 0.5$ | Pass    |
|                  |         | 5825            | /  | /      | 1   | 15.851              | $\geq 0.5$ | Pass    |
| 802.11ax (HEW20) | SISO    | 5745            | SU | /      | 1   | 18.298              | $\geq 0.5$ | Pass    |
|                  |         | 5785            | SU | /      | 1   | 18.362              | $\geq 0.5$ | Pass    |
|                  |         | 5825            | SU | /      | 1   | 16.450              | $\geq 0.5$ | Pass    |

## 2.2 Test Graph

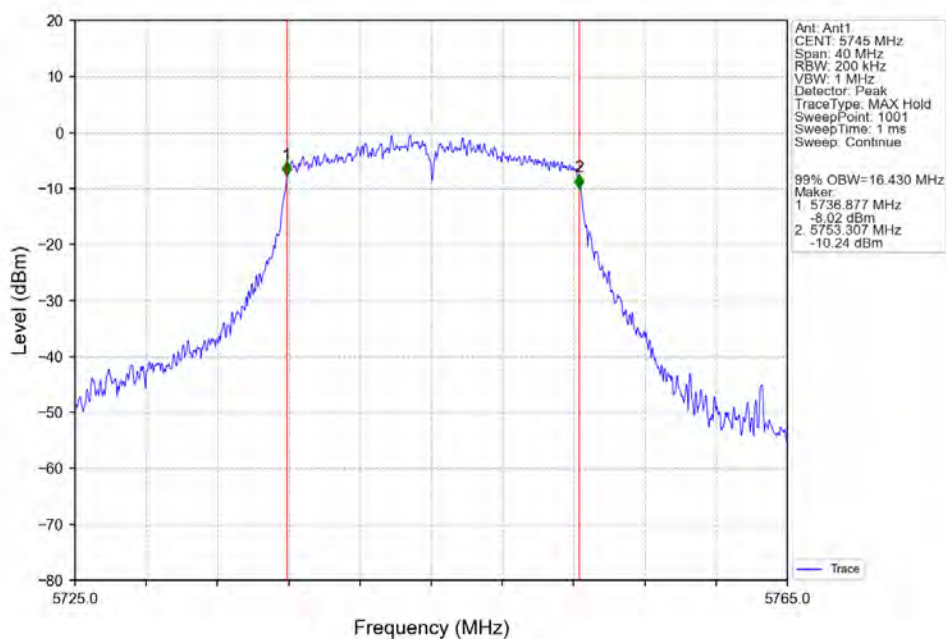
### 2.2.1 OBW



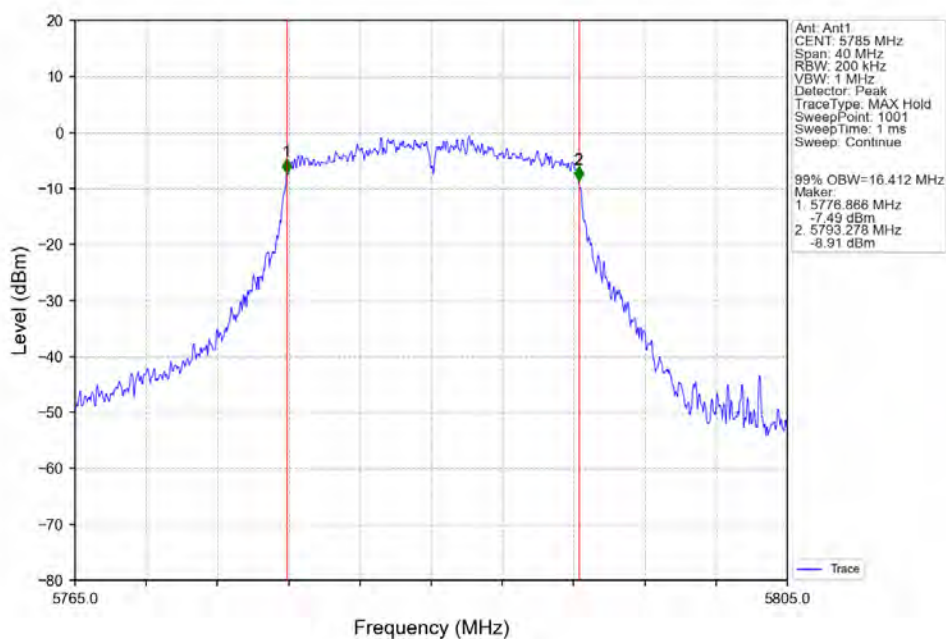
802.11a HCH 5240MHz Ant1 NTN



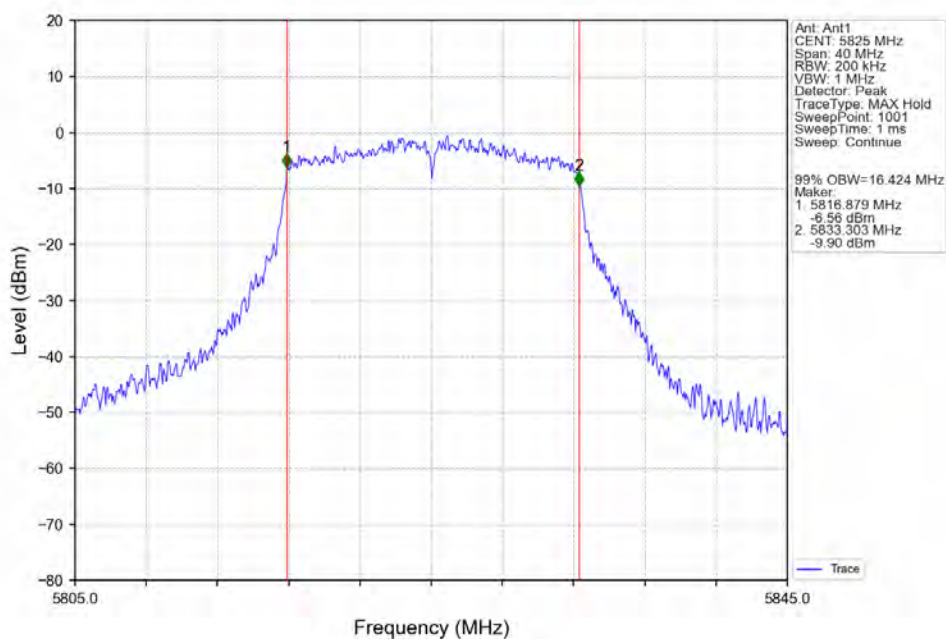
802.11a LCH 5745MHz Ant1 NTN



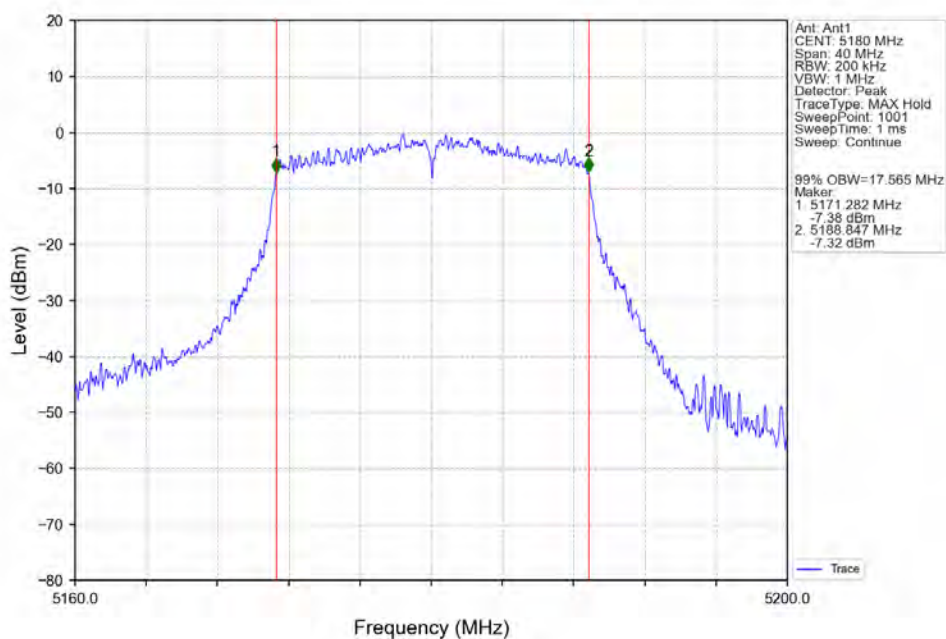
802.11a MCH 5785MHz Ant1 NTN



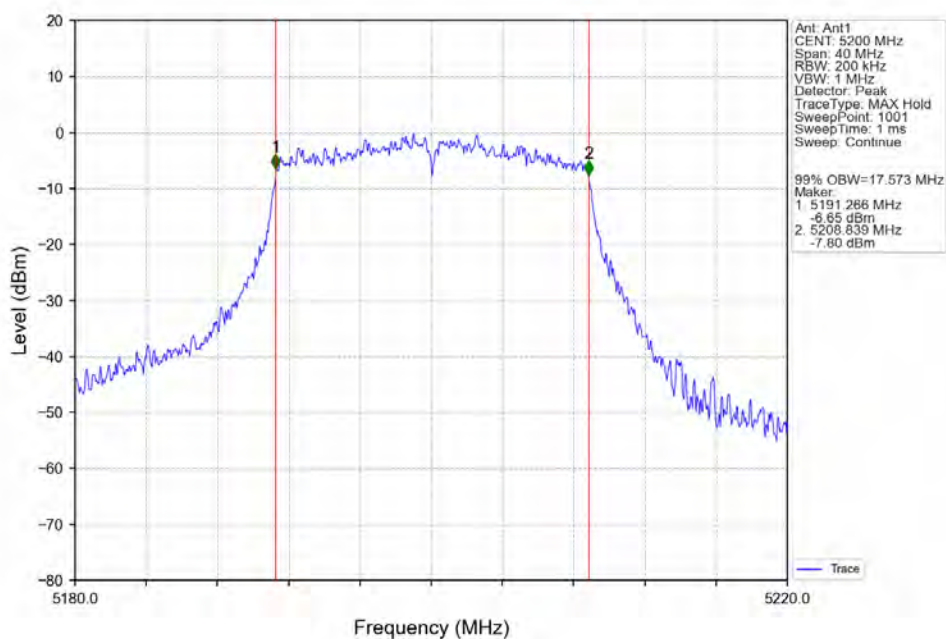
802.11a HCH 5825MHz Ant1 NTN



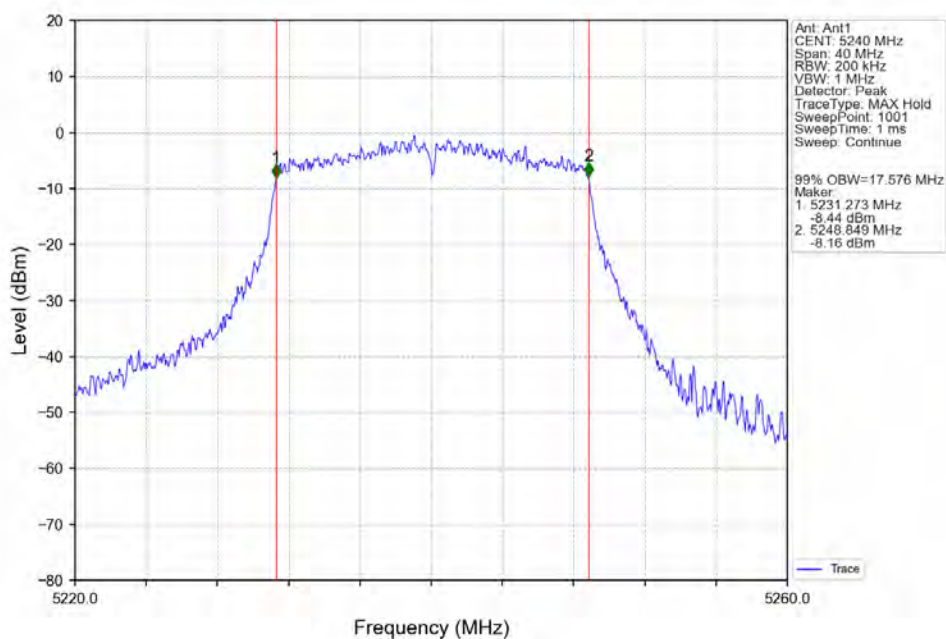
802.11n(HT20) LCH 5180MHz Ant1\_NTNV



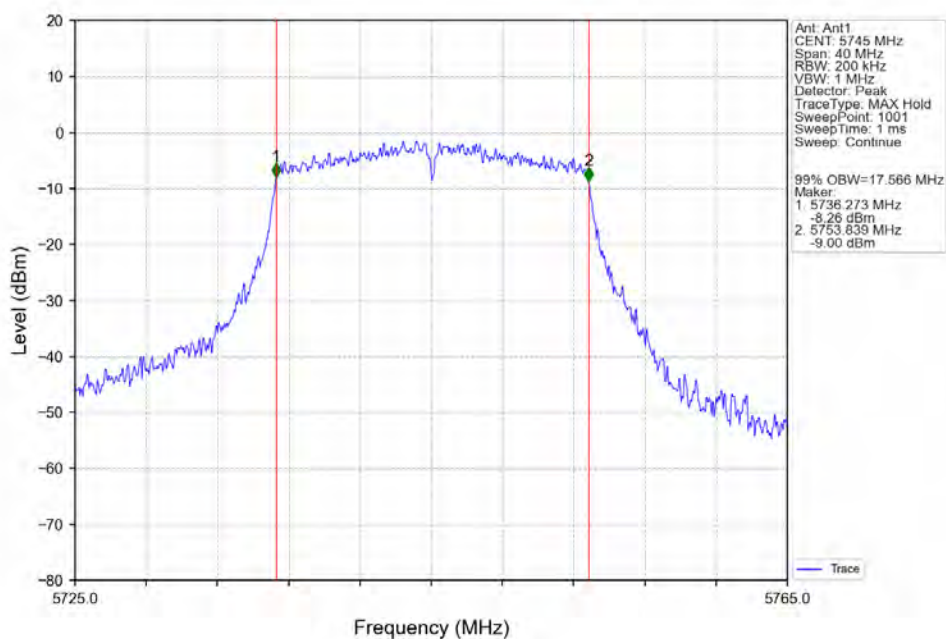
802.11n(HT20) MCH 5200MHz Ant1\_NTNV



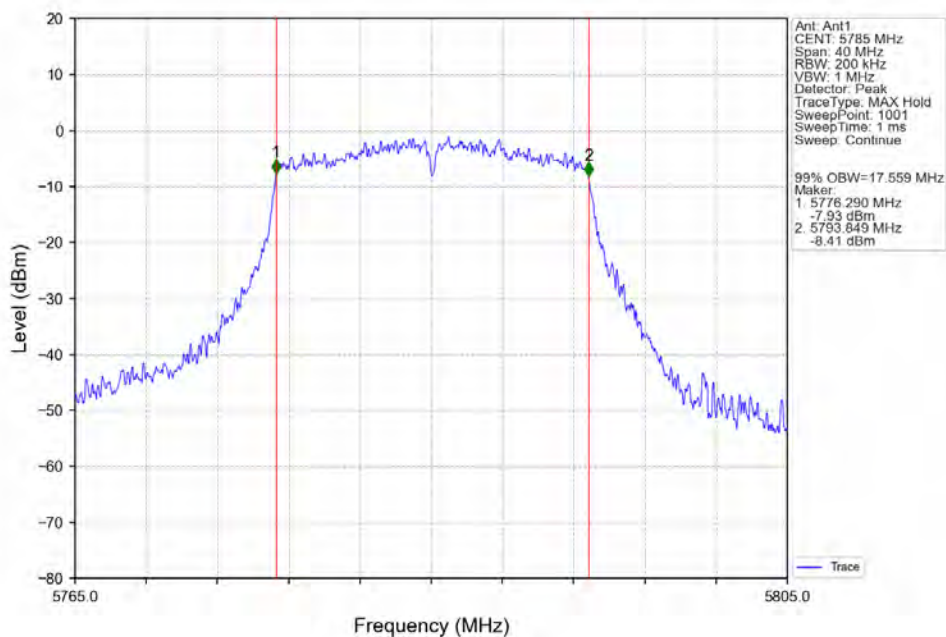
802.11n(HT20) HCH 5240MHz Ant1\_NTNV



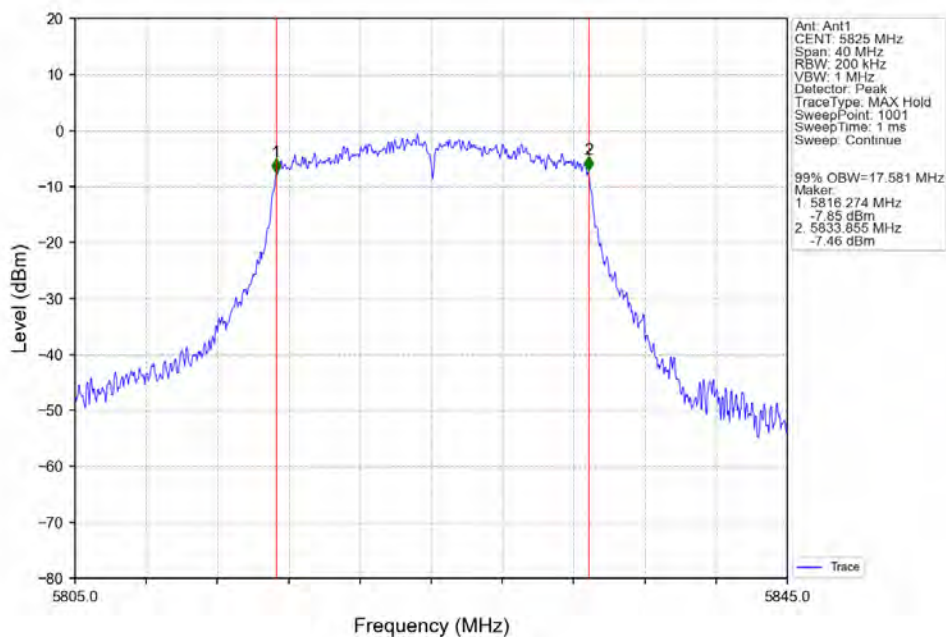
802.11n(HT20) LCH 5745MHz Ant1\_NTNV



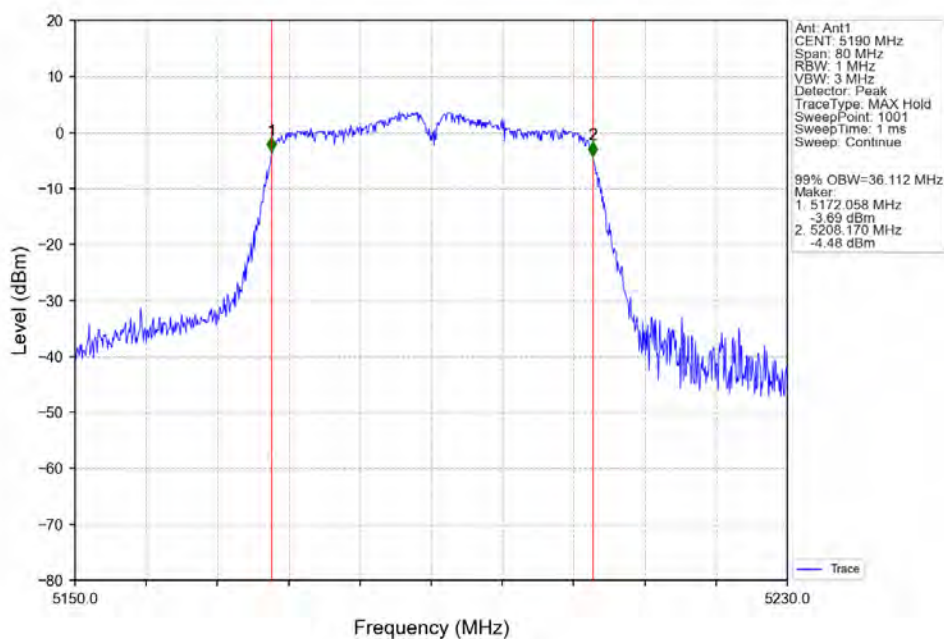
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



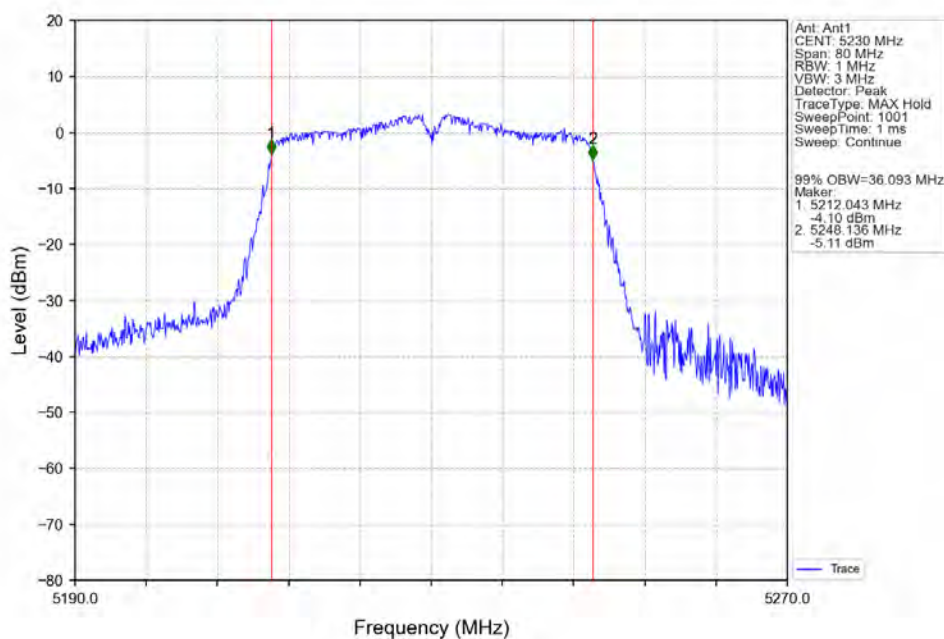
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



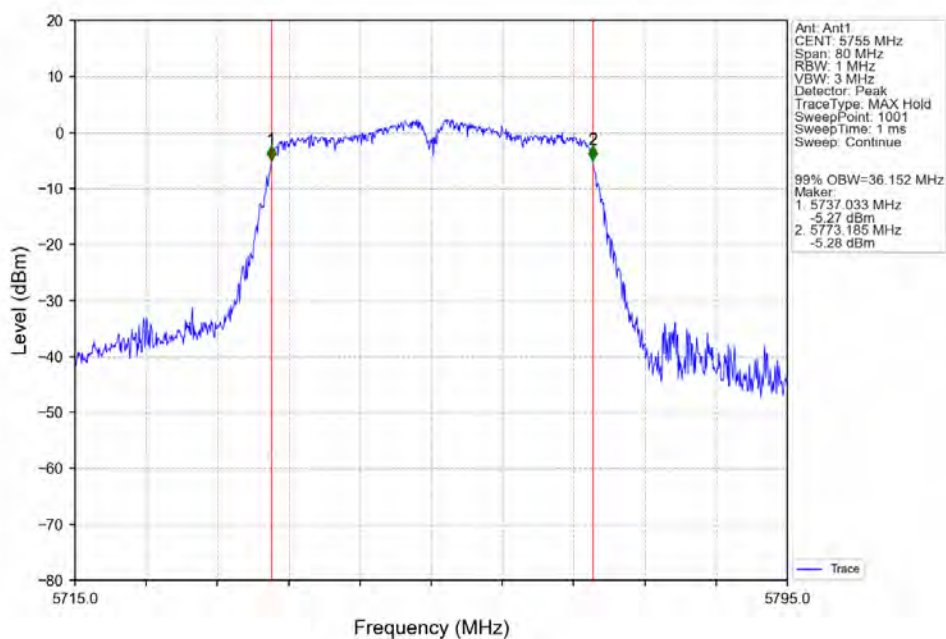
802.11n(HT40) LCH 5190MHz Ant1\_NTNV



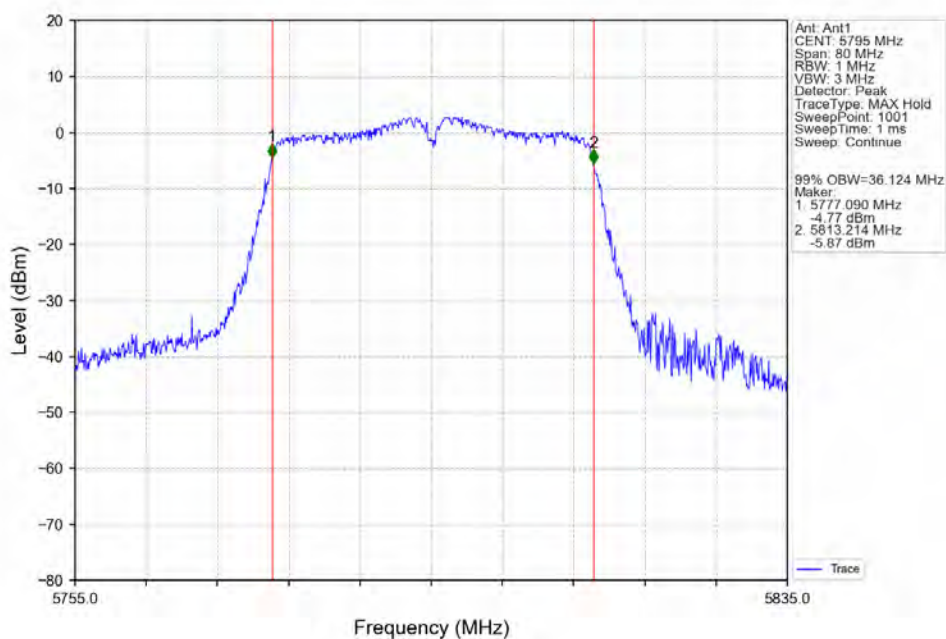
802.11n(HT40) HCH 5230MHz Ant1\_NTNV



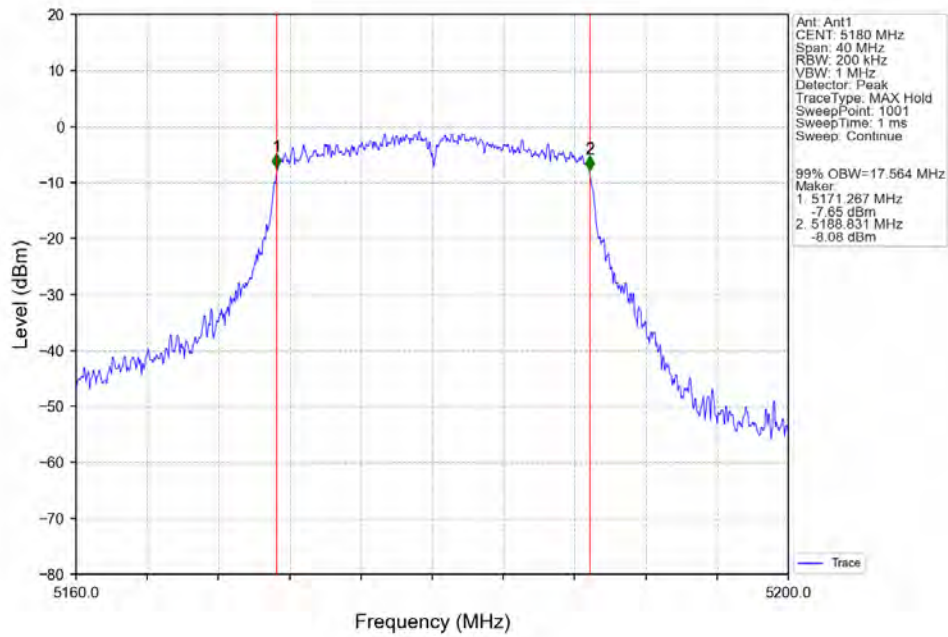
802.11n(HT40) LCH 5755MHz Ant1\_NTNV



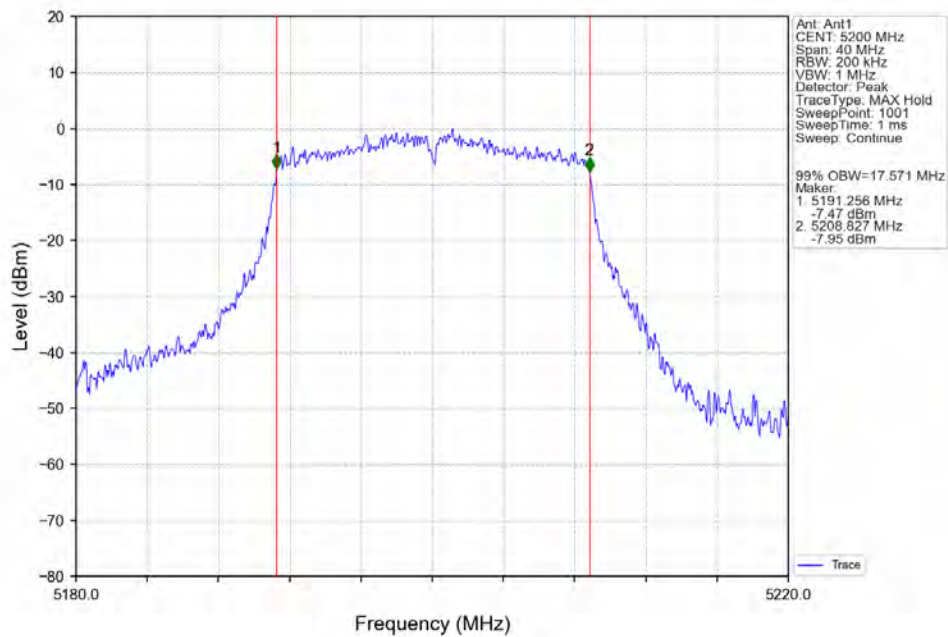
802.11n(HT40) HCH 5795MHz Ant1\_NTNV



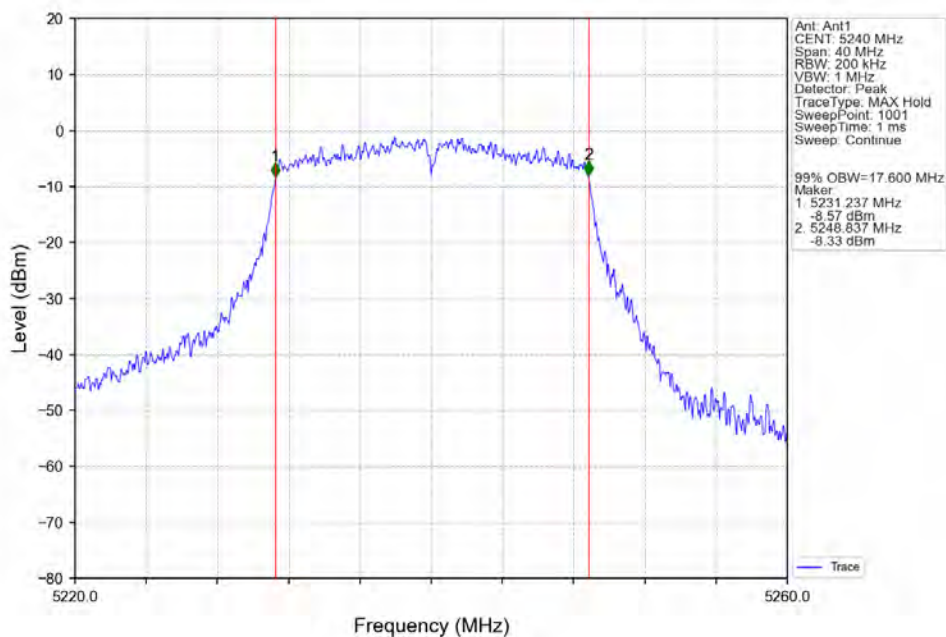
802.11ac(VHT20) LCH 5180MHz Ant1 NTN



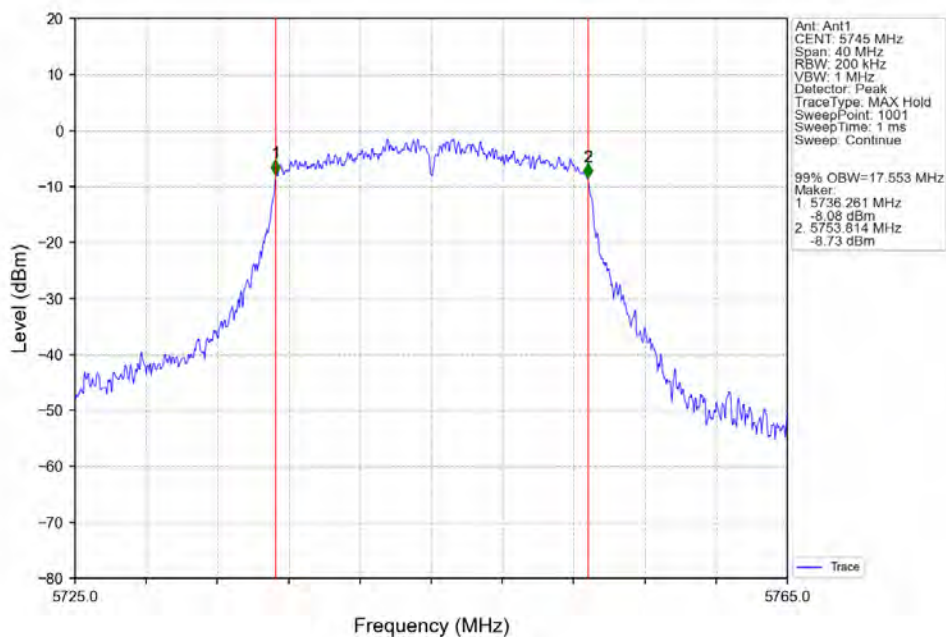
802.11ac(VHT20) MCH 5200MHz Ant1 NTN



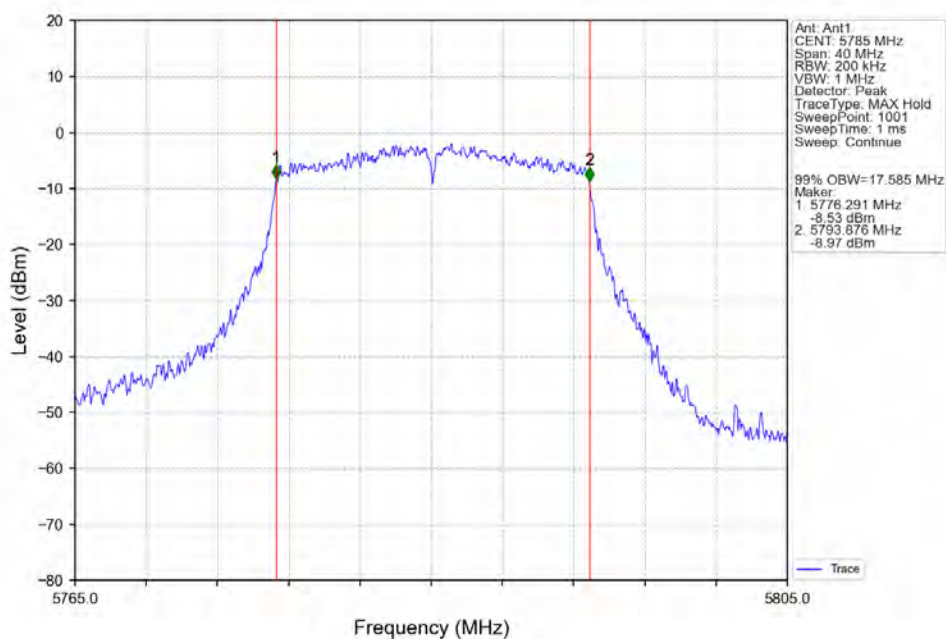
802.11ac(VHT20) HCH 5240MHz Ant1\_NTNV



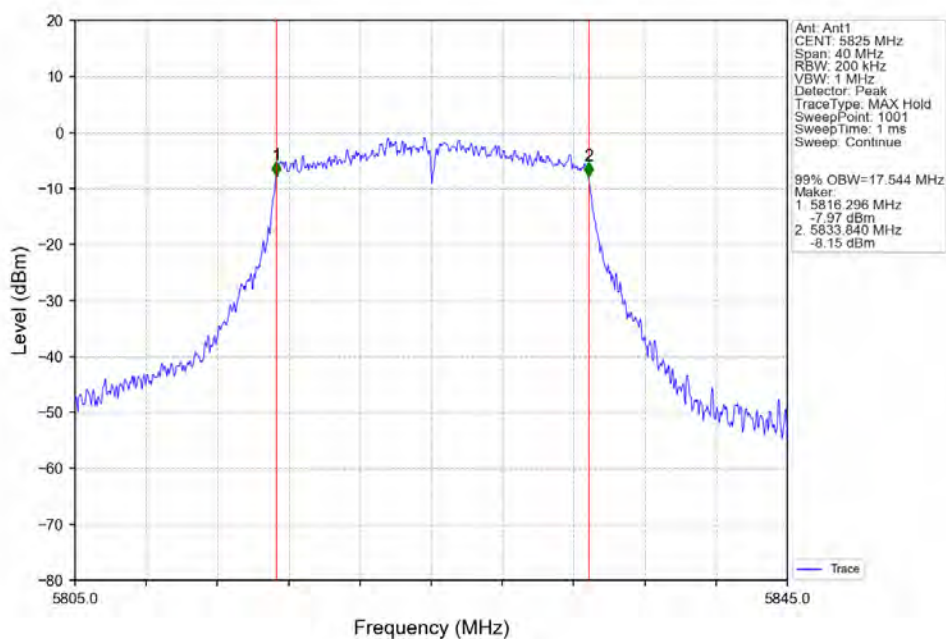
802.11ac(VHT20) LCH 5745MHz Ant1\_NTNV



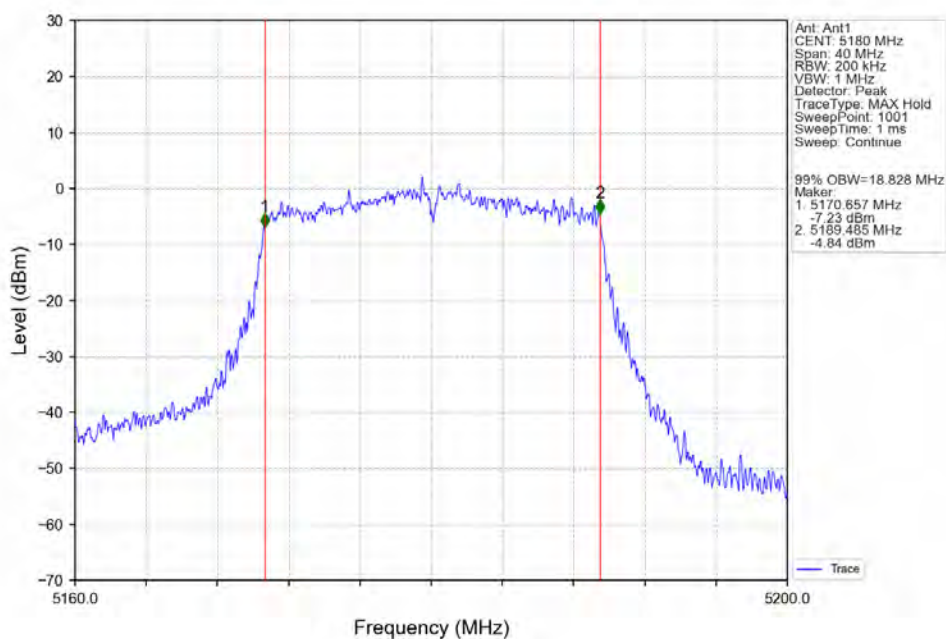
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



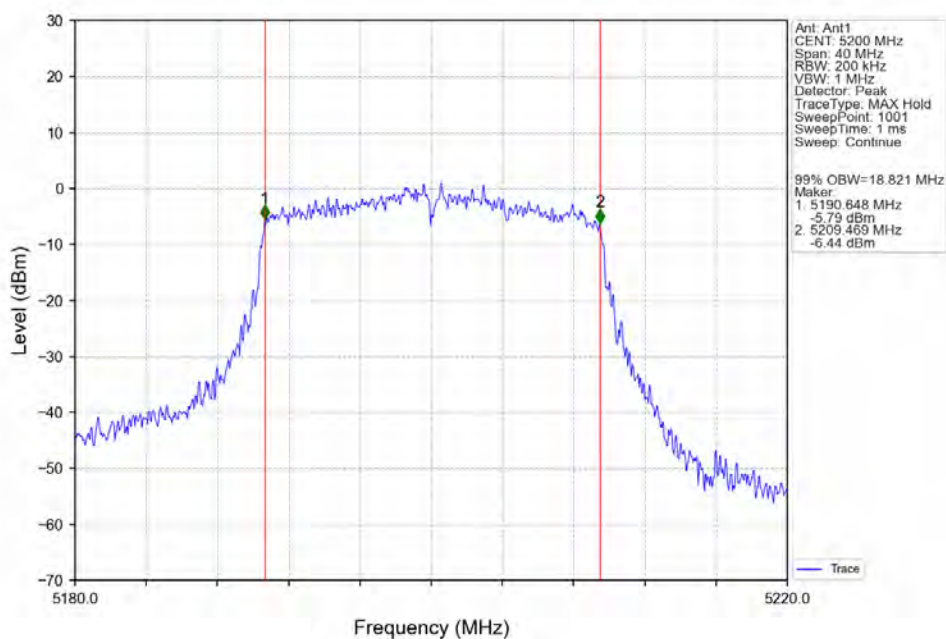
802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



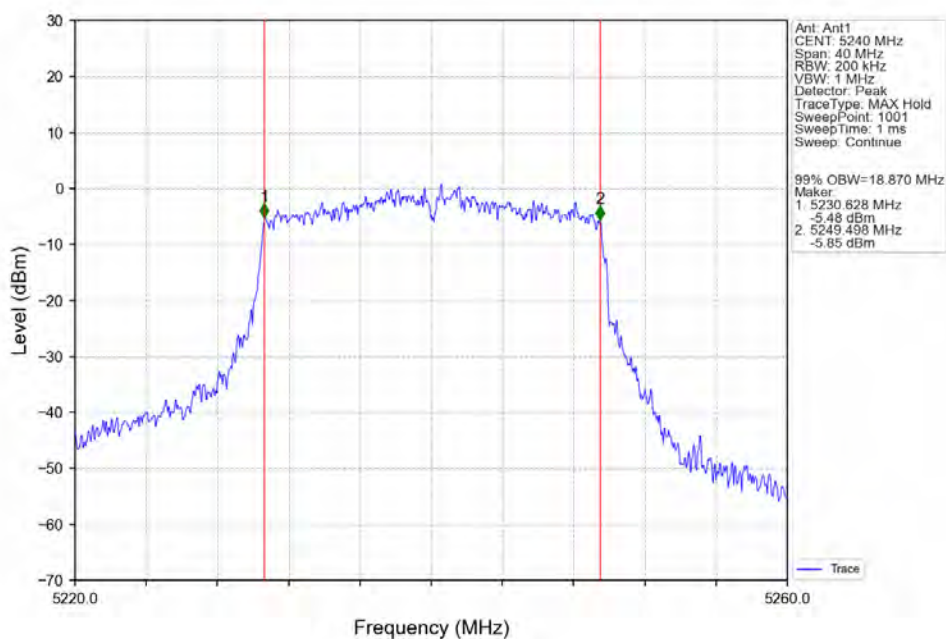
802.11ax(HEW20) LCH 5180MHz SU / Ant1 NTVN



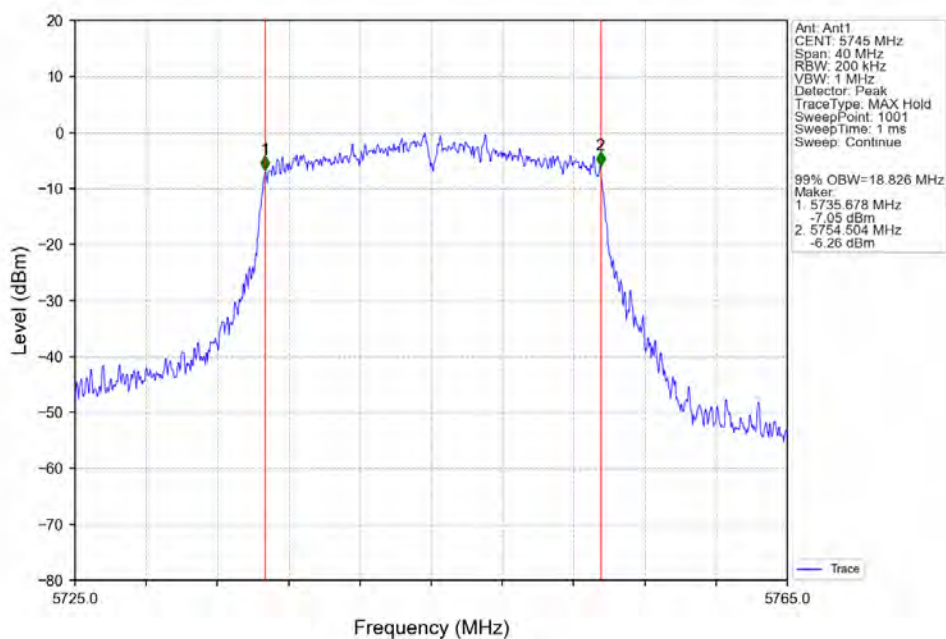
802.11ax(HEW20) MCH 5200MHz SU / Ant1 NTVN



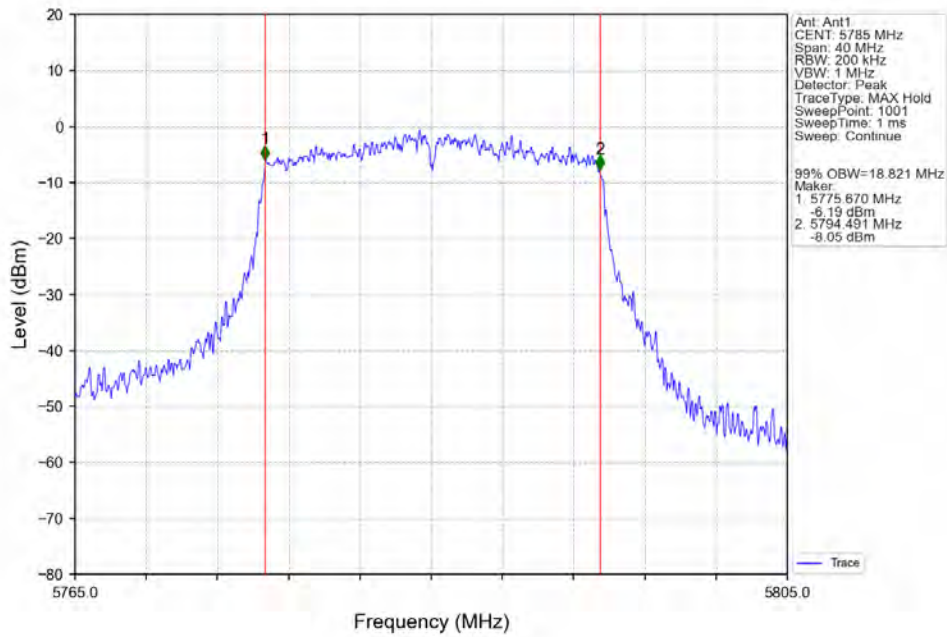
802.11ax(HEW20) HCH 5240MHz SU / Ant1 NTVN



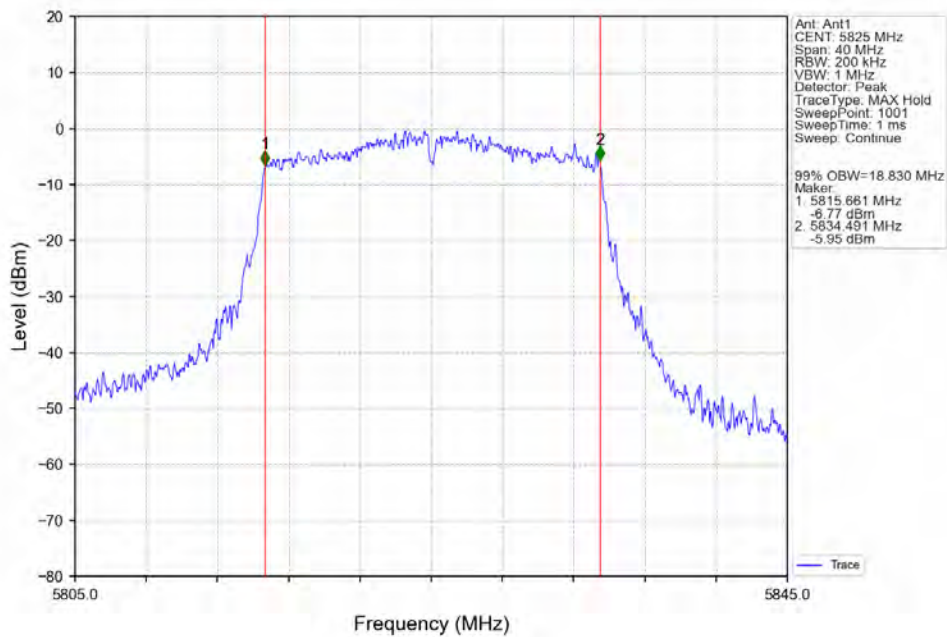
802.11ax(HEW20) LCH 5745MHz SU / Ant1 NTVN



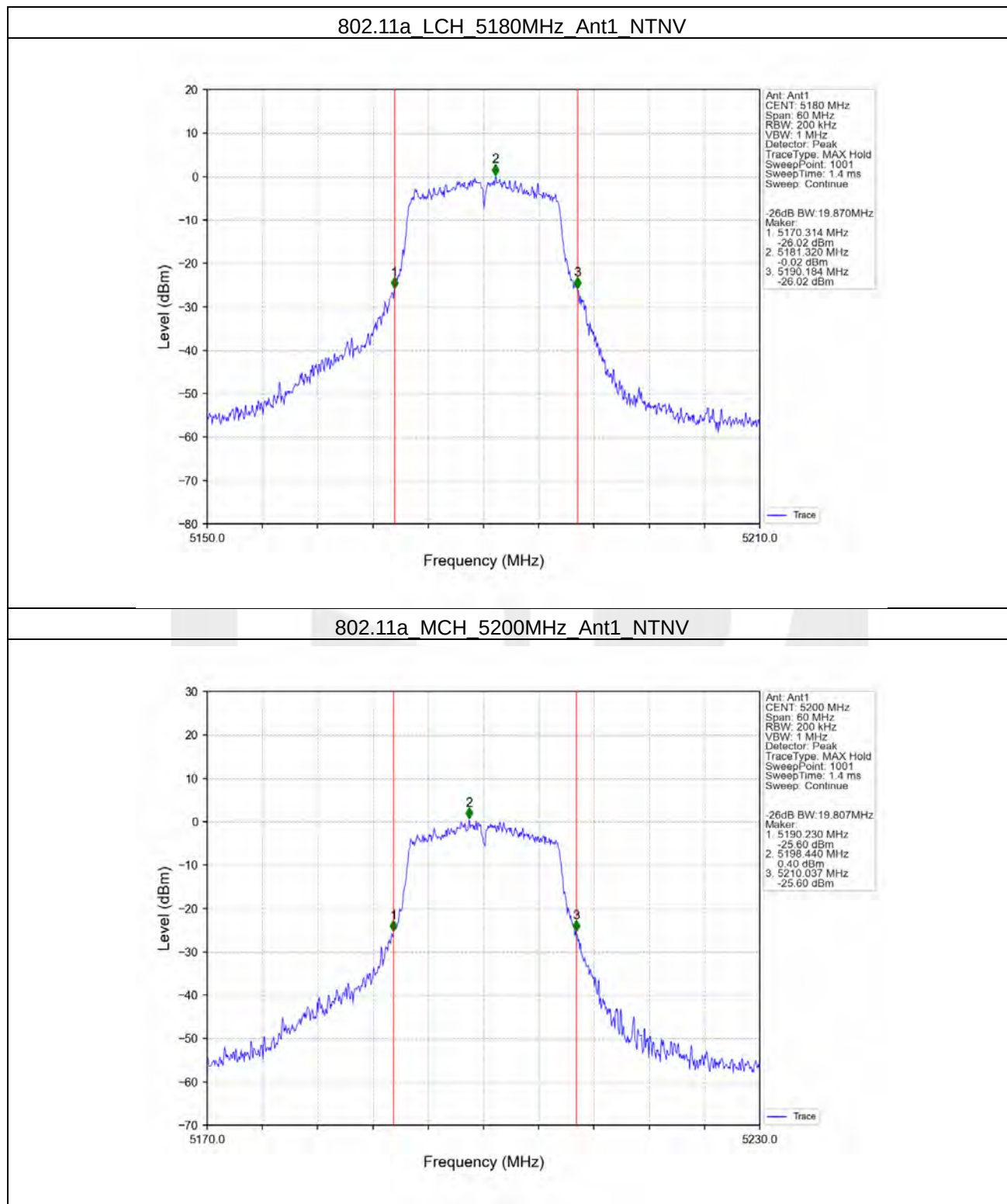
802.11ax(HEW20) MCH 5785MHz SU / Ant1 NTN



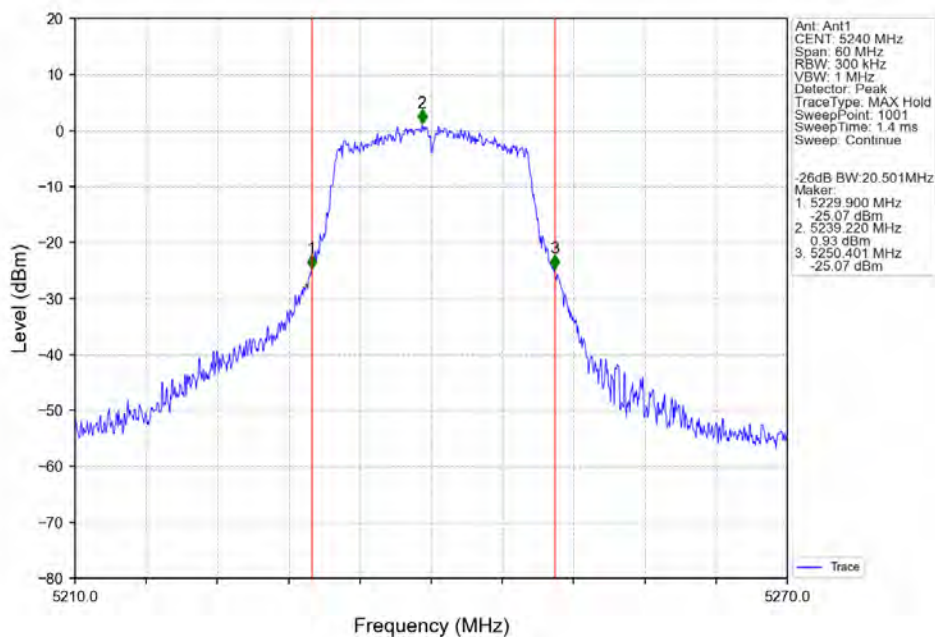
802.11ax(HEW20) HCH 5825MHz SU / Ant1 NTN



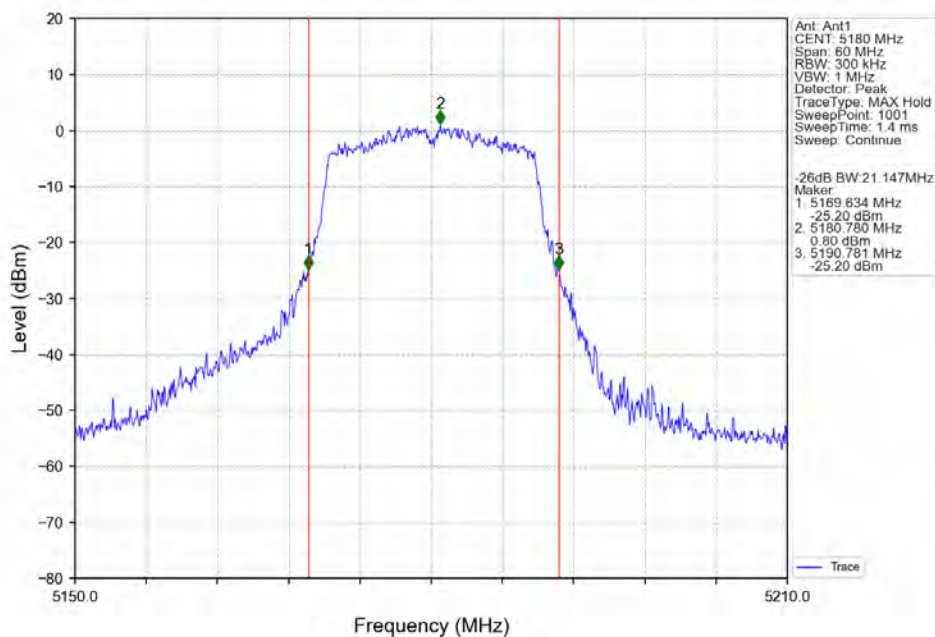
## 2.2.2 26dB BW



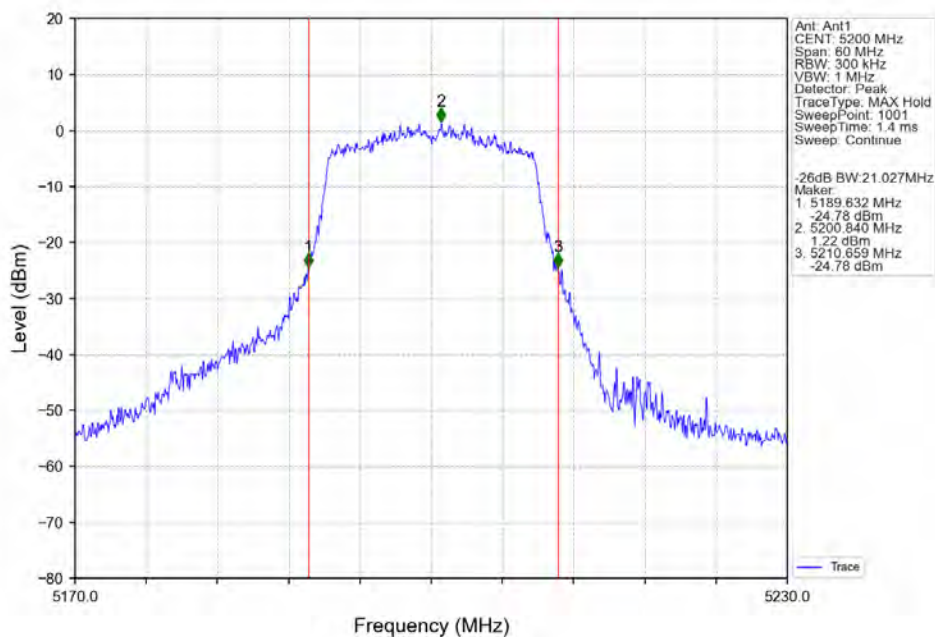
802.11a HCH 5240MHz Ant1\_NTNV



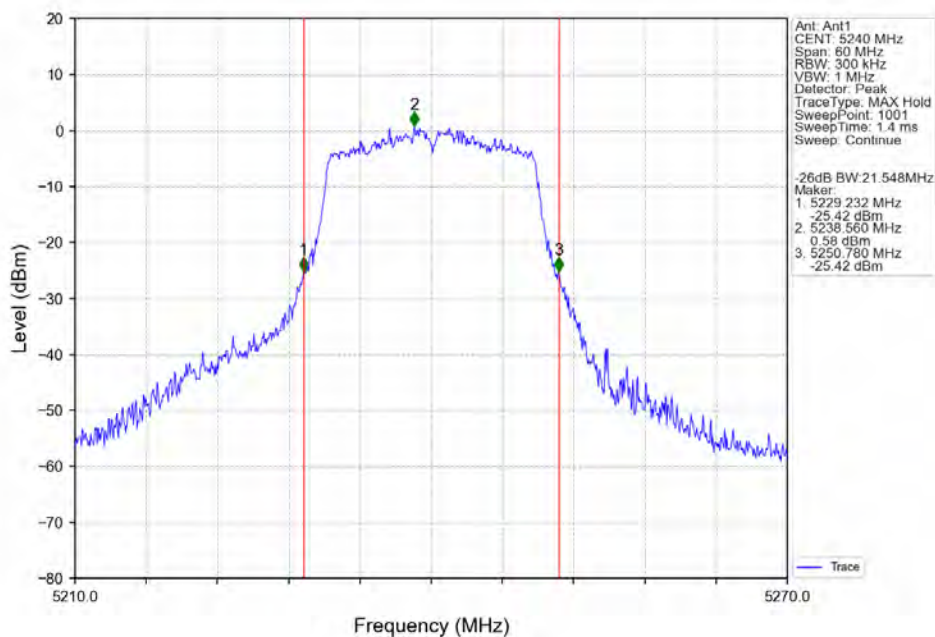
802.11n(HT20) LCH 5180MHz Ant1\_NTNV



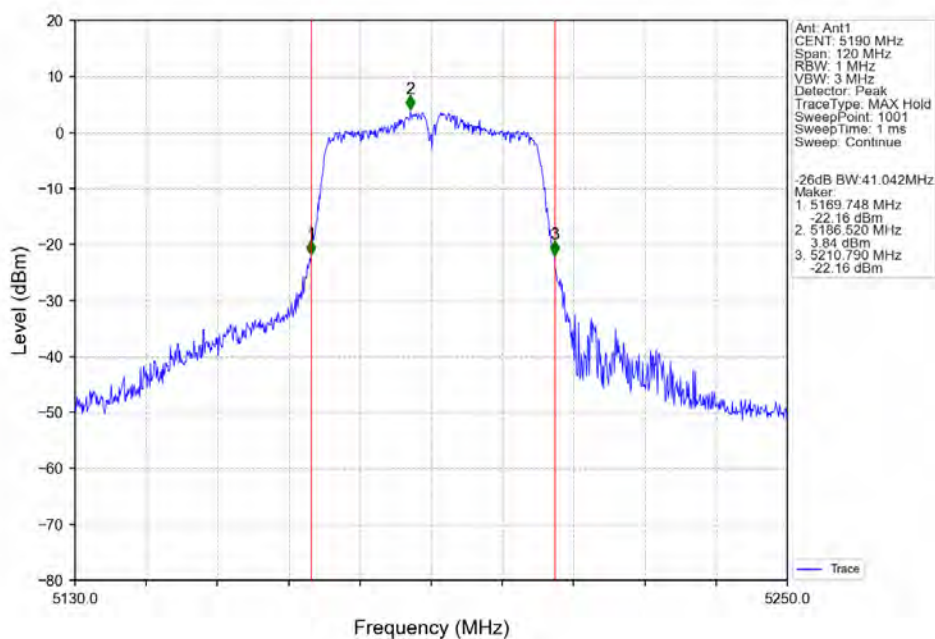
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



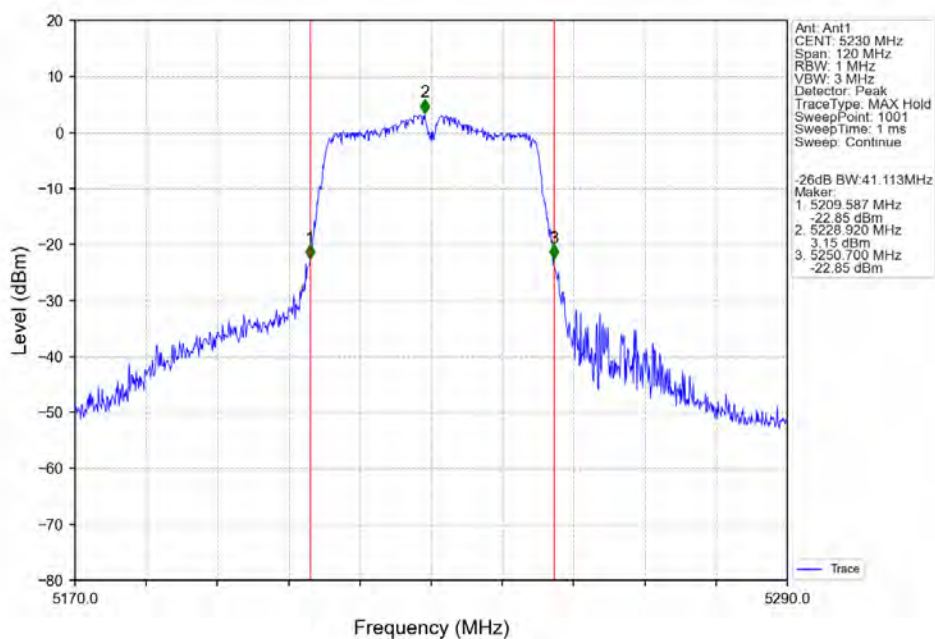
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



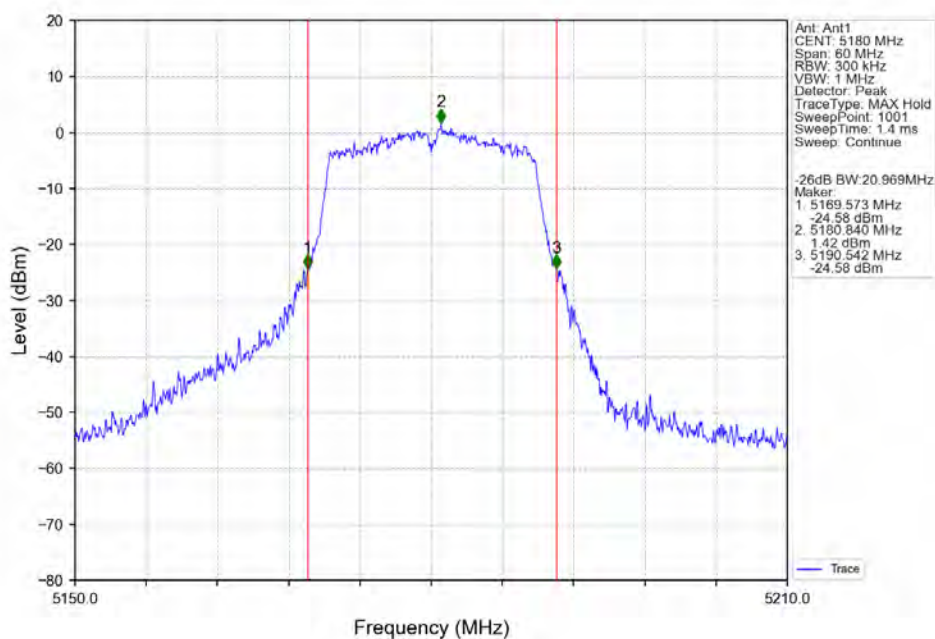
802.11n(HT40) LCH 5190MHz Ant1\_NTNV



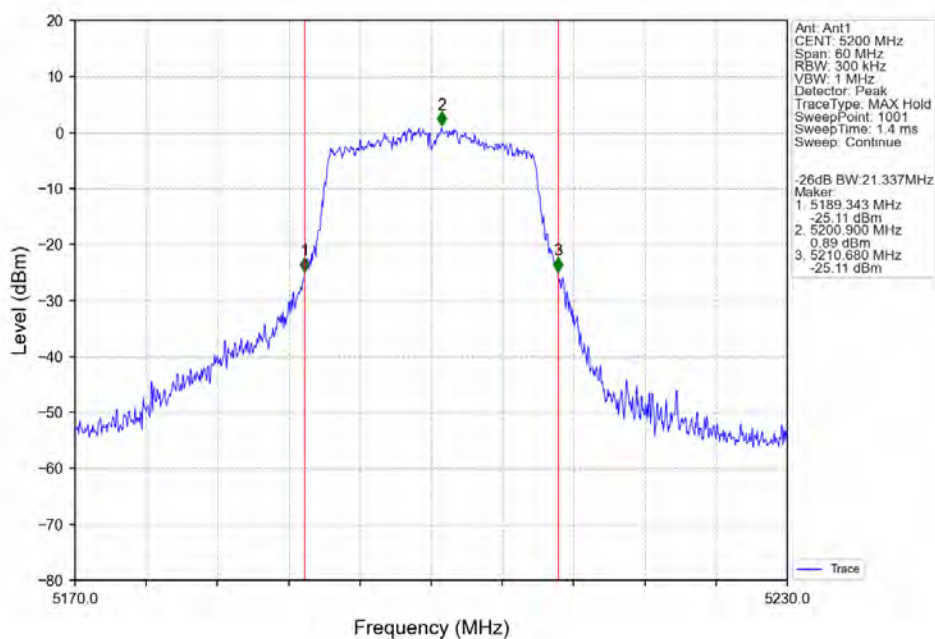
802.11n(HT40) HCH 5230MHz Ant1\_NTNV



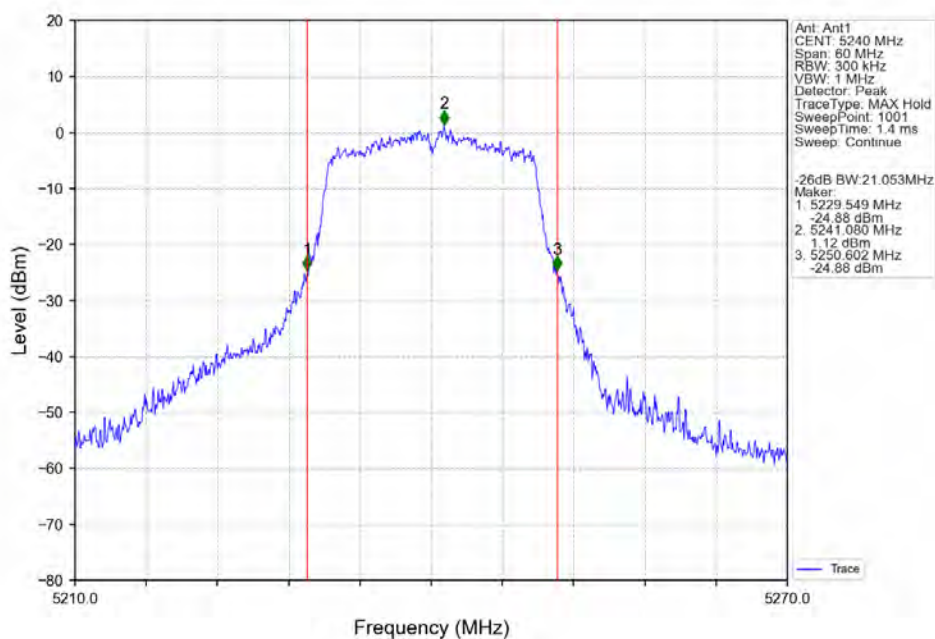
802.11ac(VHT20) LCH 5180MHz Ant1 NTN



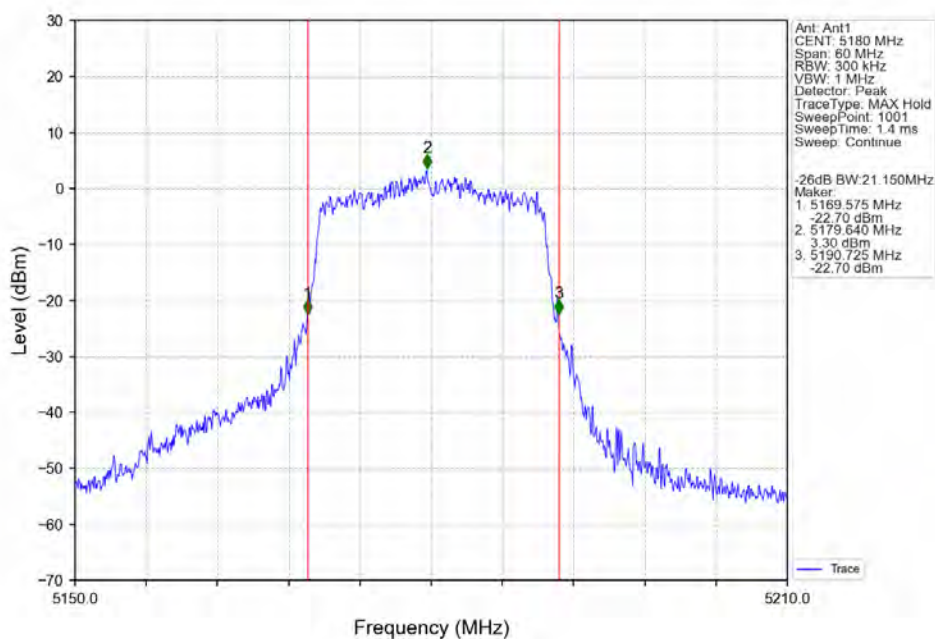
802.11ac(VHT20) MCH 5200MHz Ant1 NTN



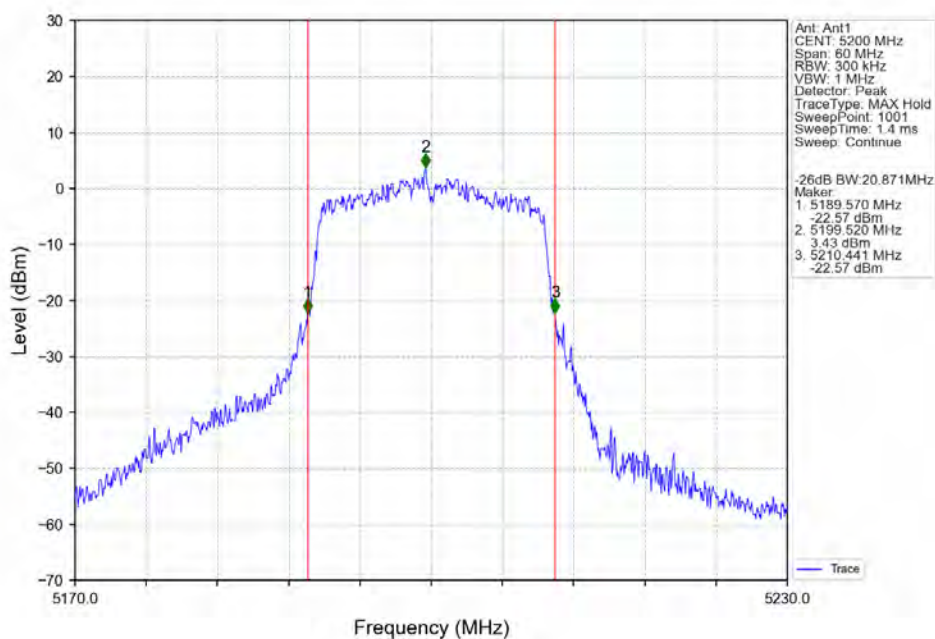
802.11ac(VHT20) HCH 5240MHz Ant1 NTN



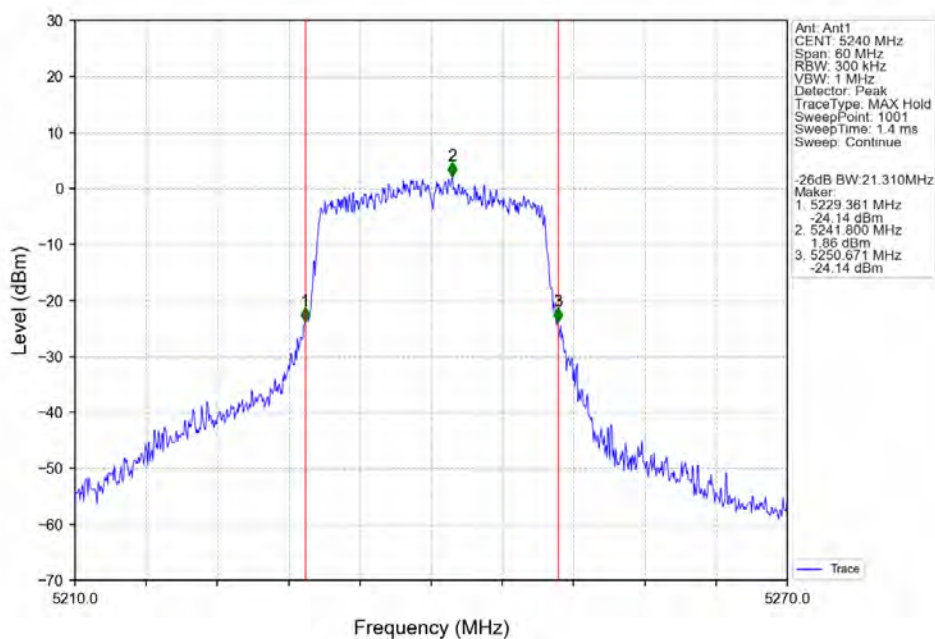
802.11ax(HEW20) LCH 5180MHz SU / Ant1 NTN



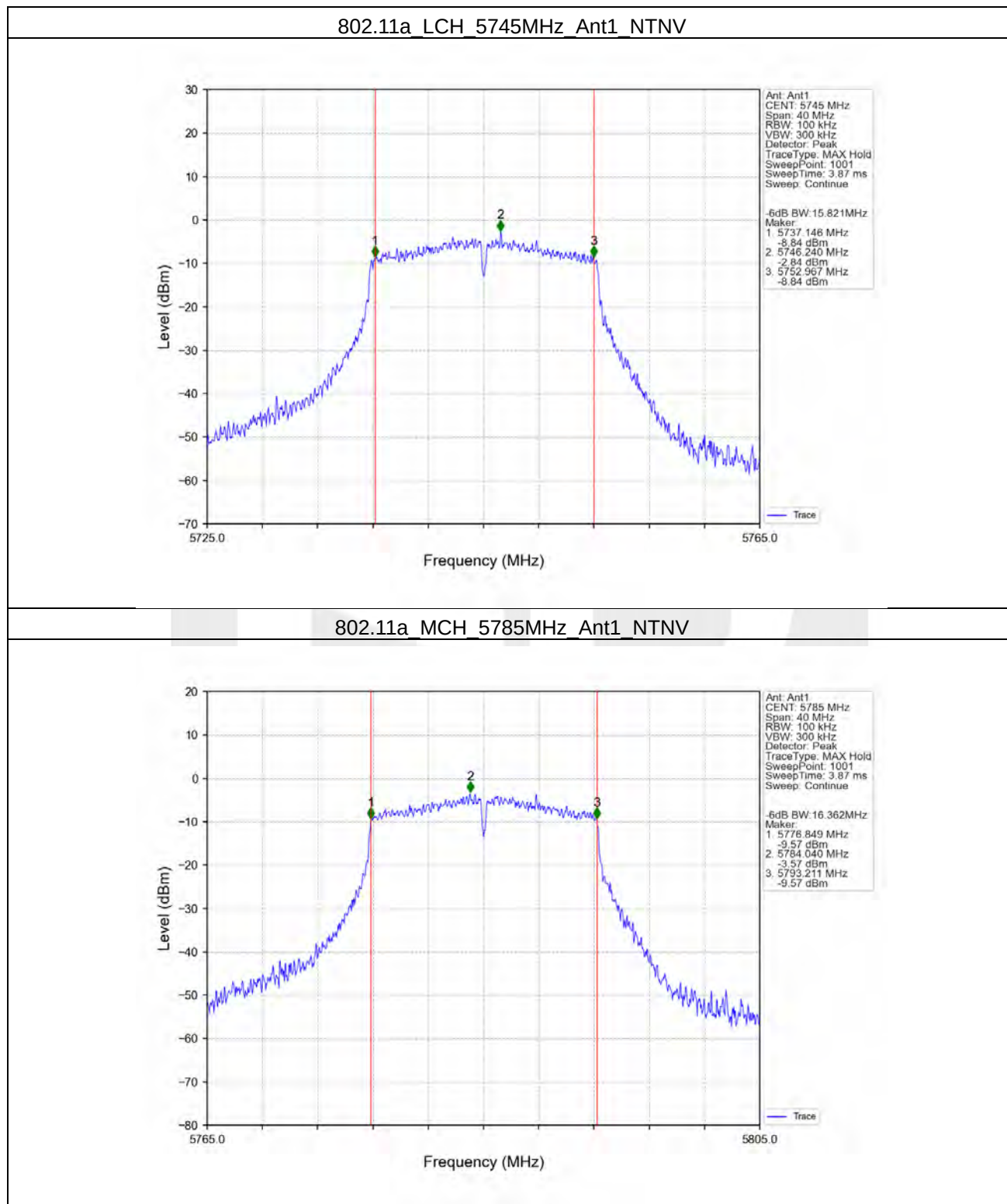
802.11ax(HEW20) MCH 5200MHz SU / Ant1 NTN



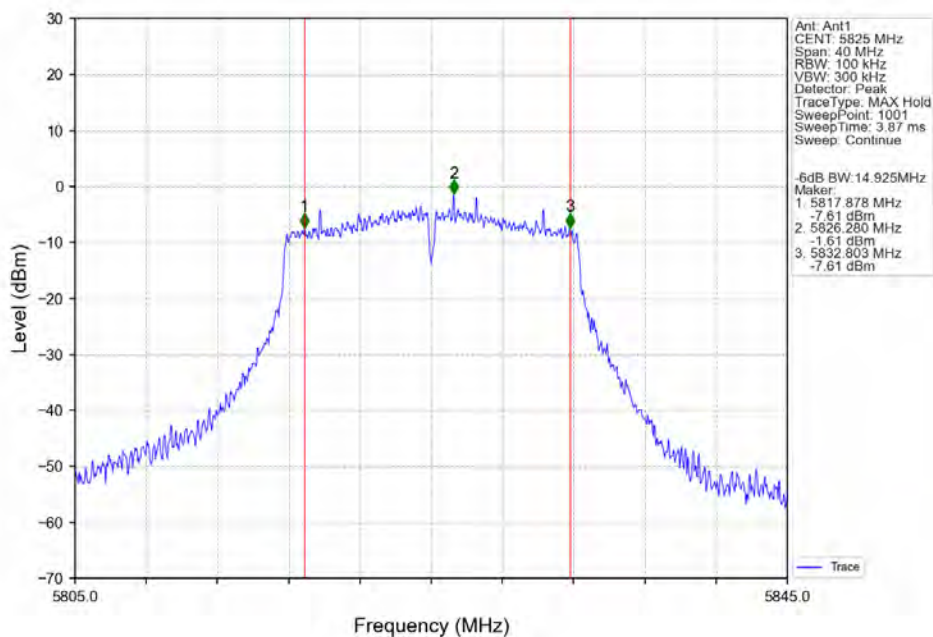
802.11ax(HEW20) HCH 5240MHz SU / Ant1 NTN



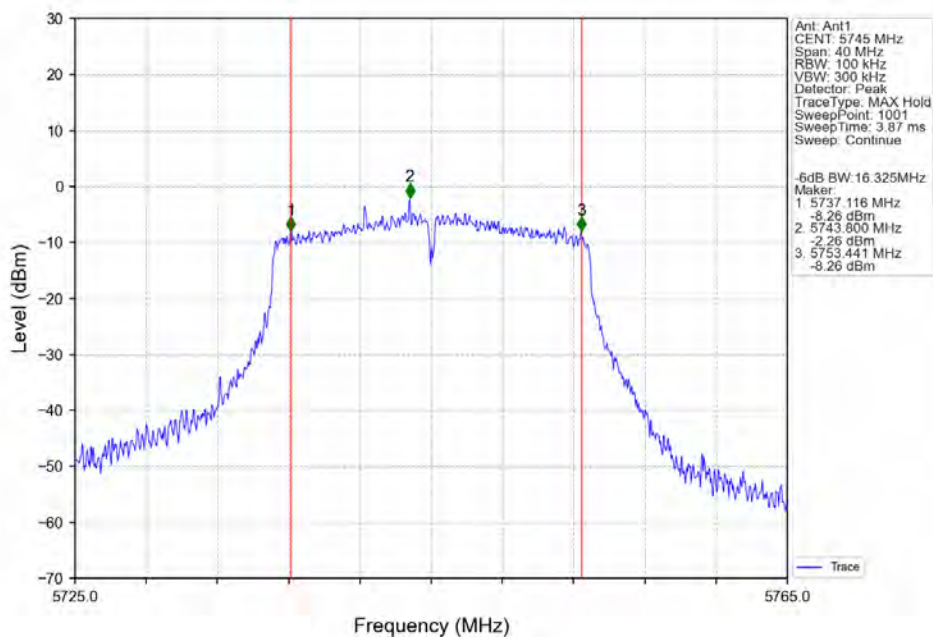
### 2.2.3 6dB BW



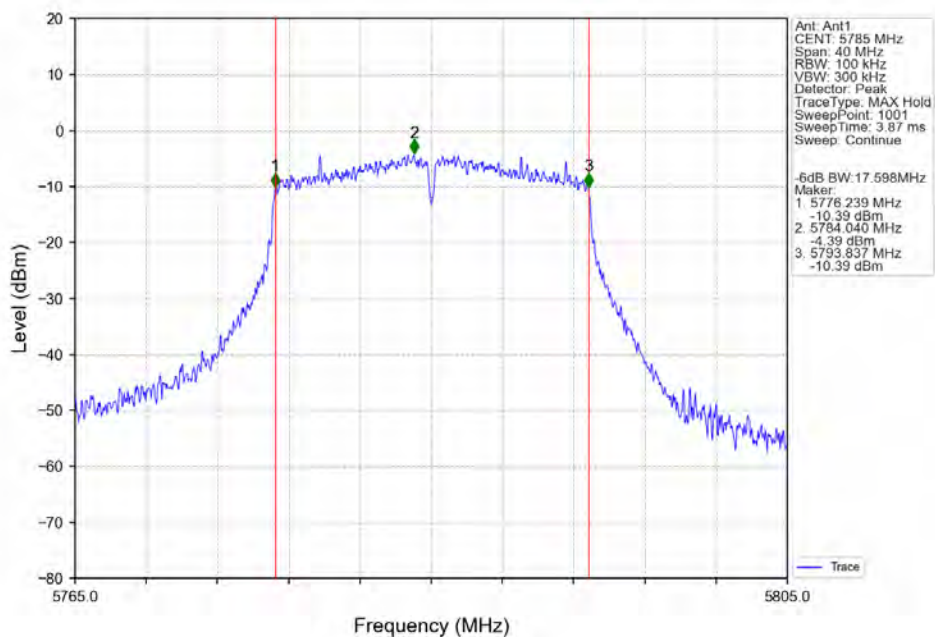
802.11a HCH 5825MHz Ant1 NTNV



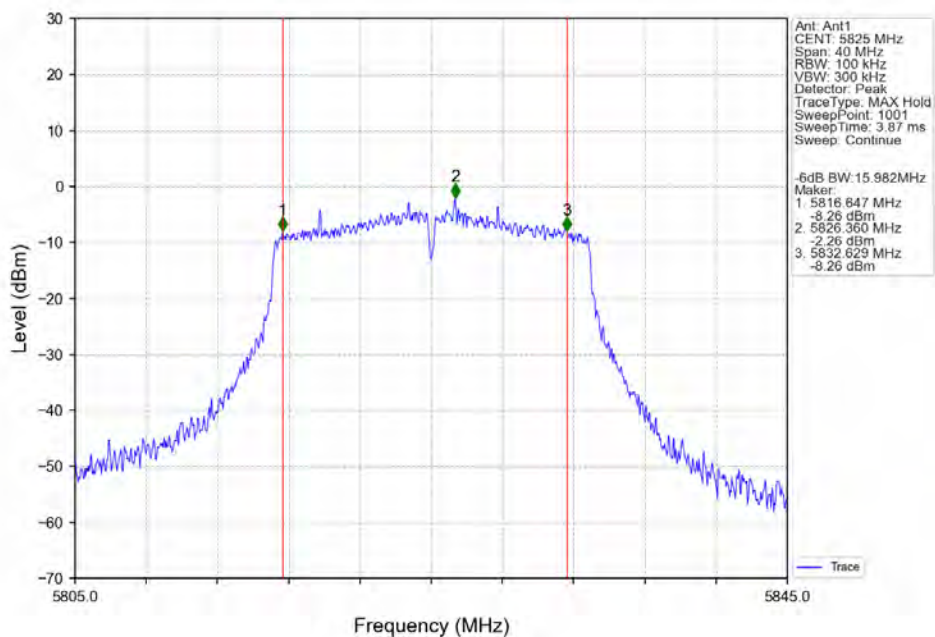
802.11n(HT20) LCH 5745MHz Ant1 NTNV



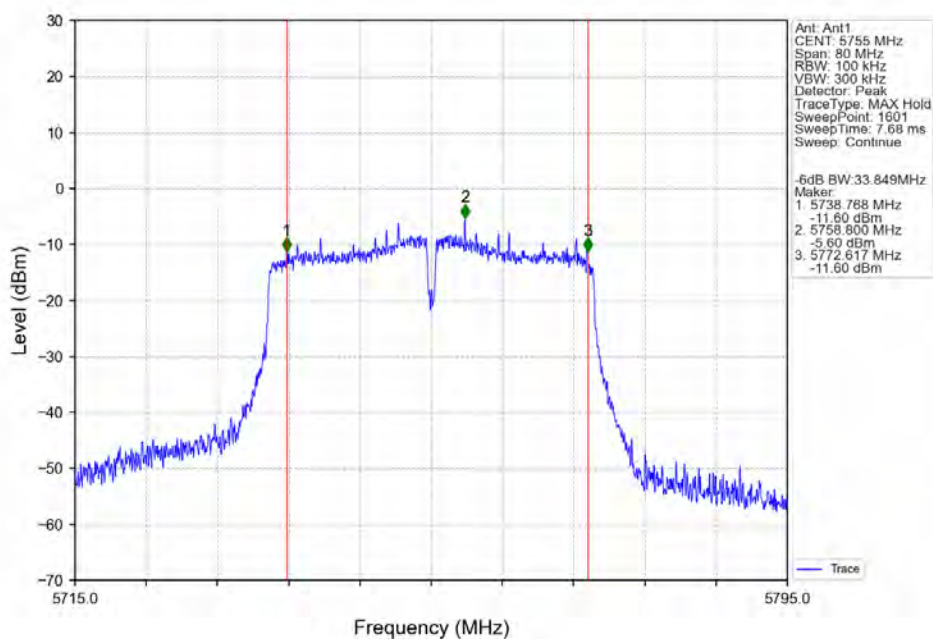
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



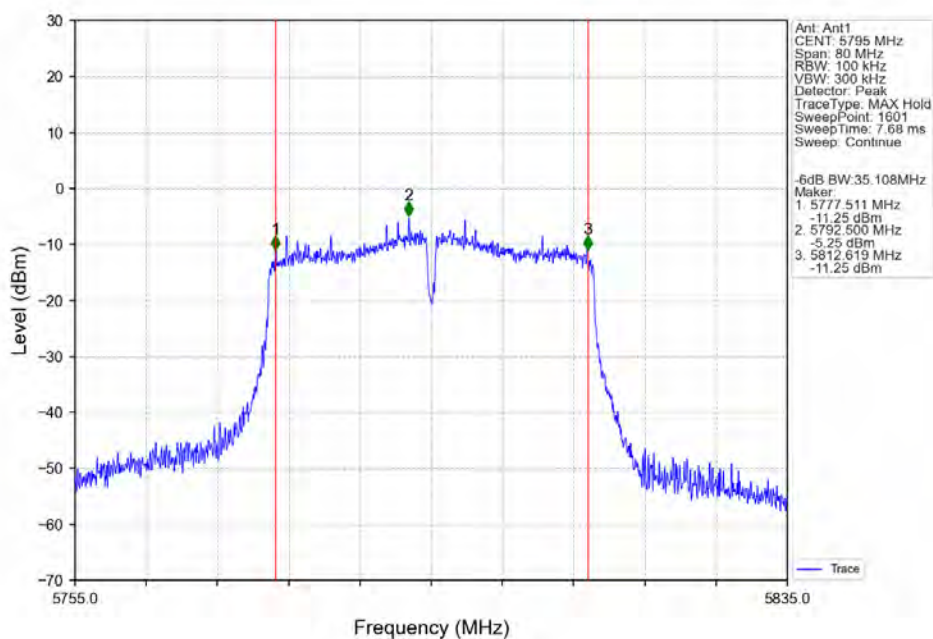
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



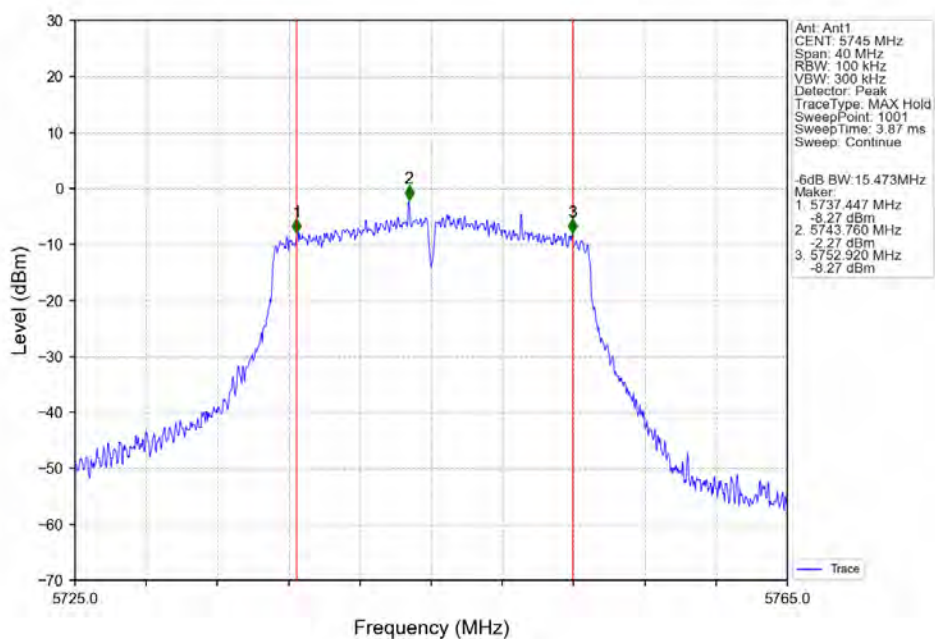
802.11n(HT40) LCH 5755MHz Ant1\_NTNV



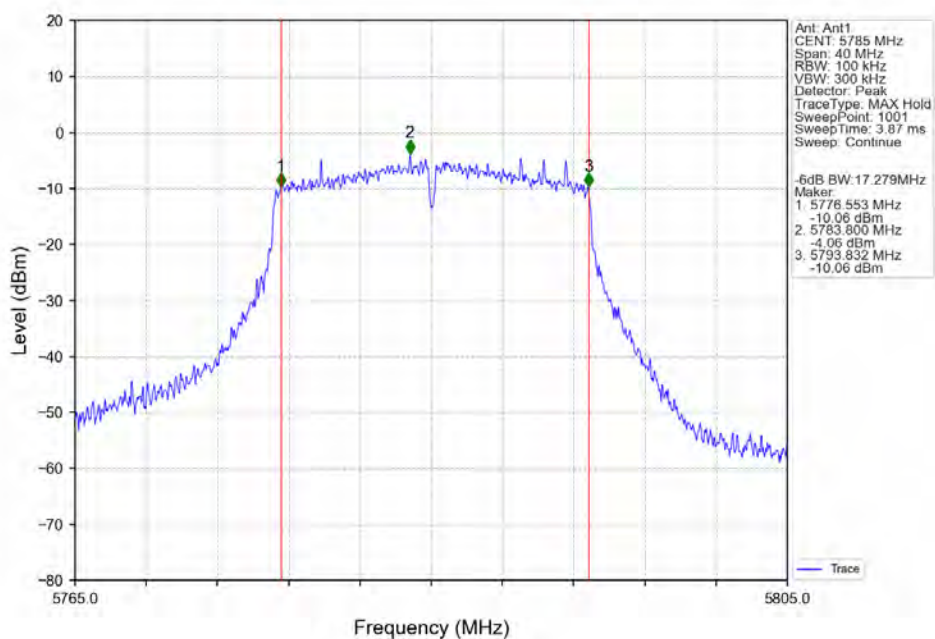
802.11n(HT40) HCH 5795MHz Ant1\_NTNV



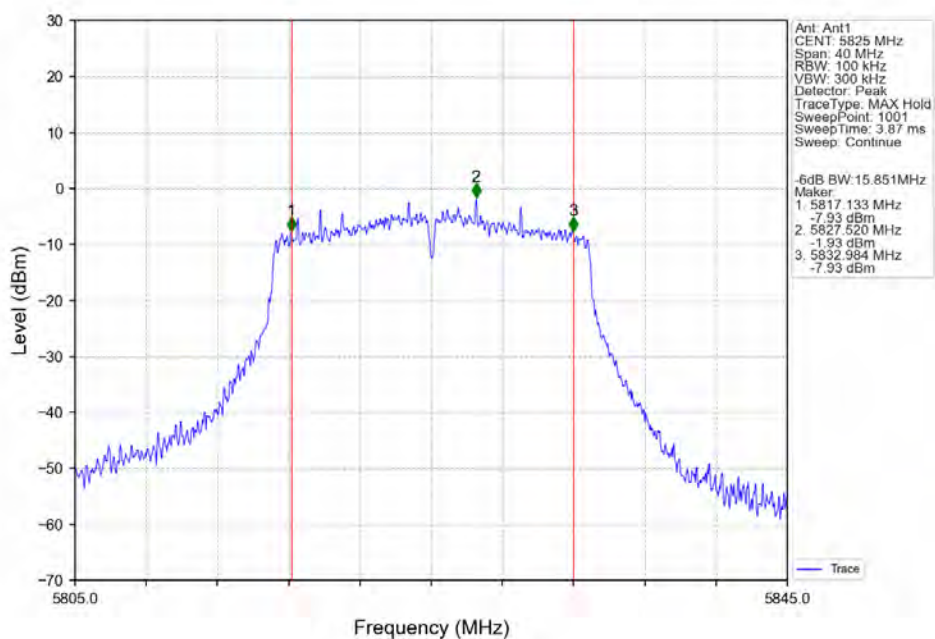
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



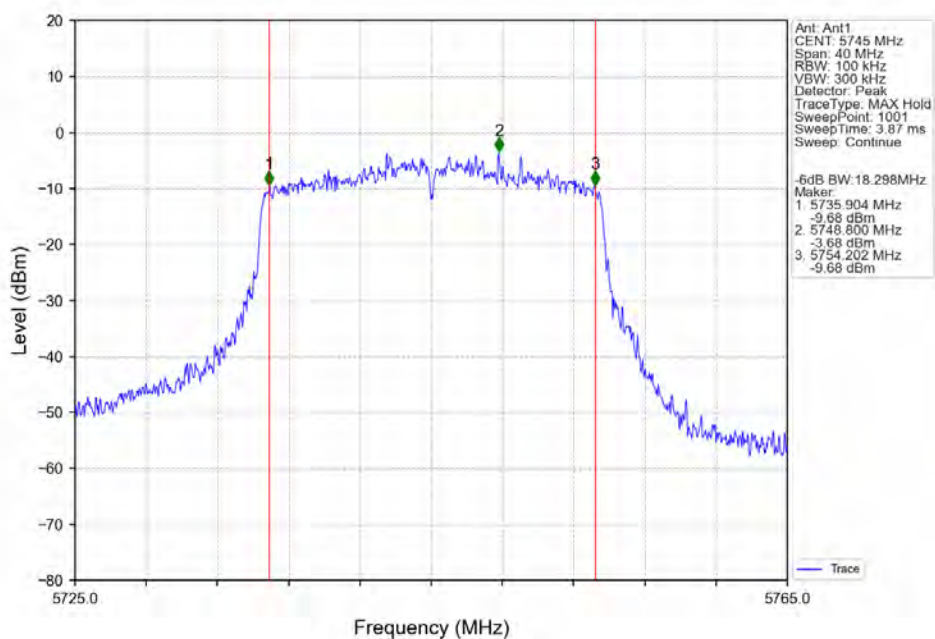
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



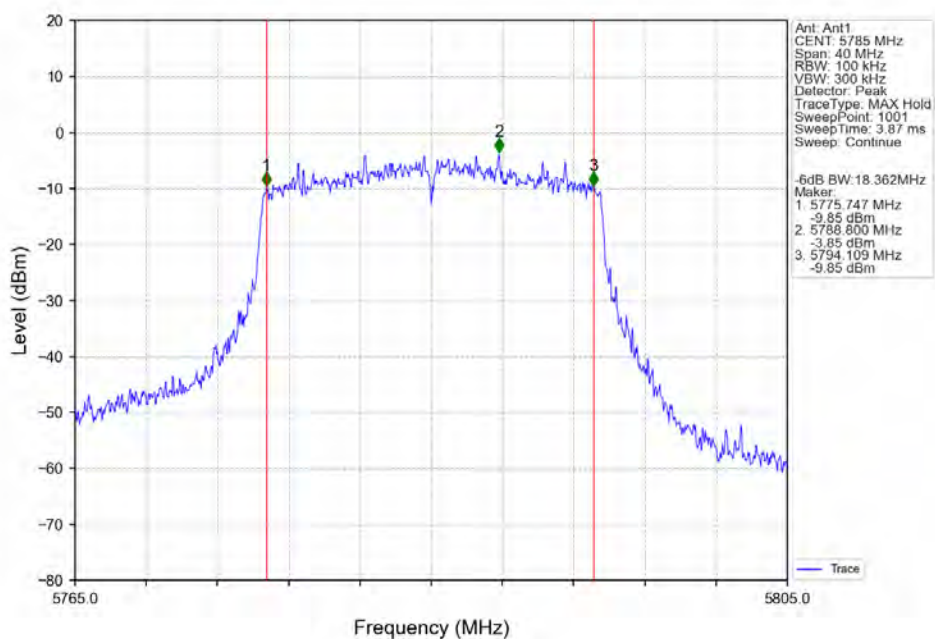
802.11ac(VHT20) HCH 5825MHz Ant1 NTN



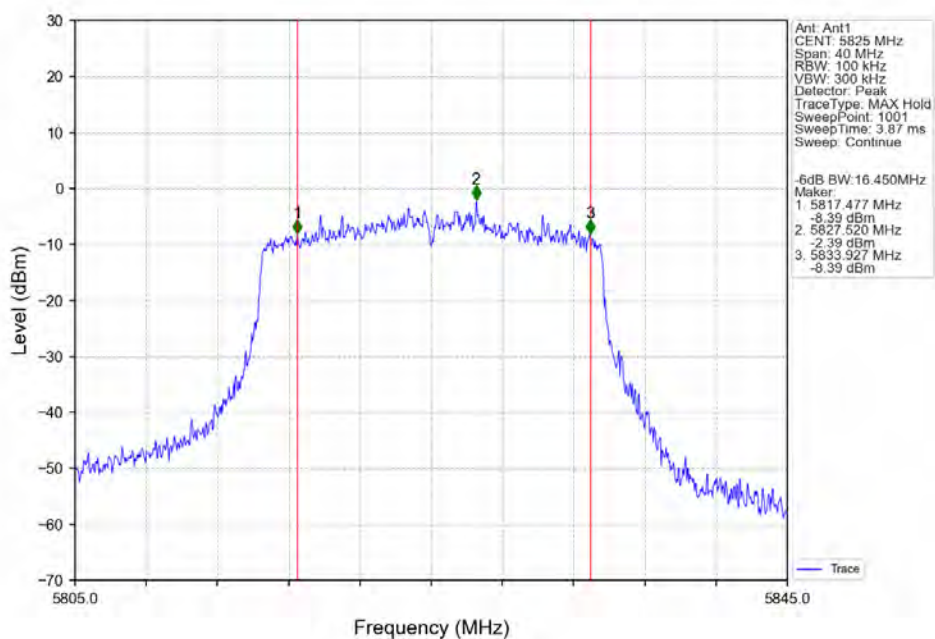
802.11ax(HEW20) LCH 5745MHz SU / Ant1 NTN



802.11ax(HEW20) MCH\_5785MHz\_SU / Ant1\_NTNV



802.11ax(HEW20) HCH\_5825MHz\_SU / Ant1\_NTNV



### 3. Maximum Conducted Output Power

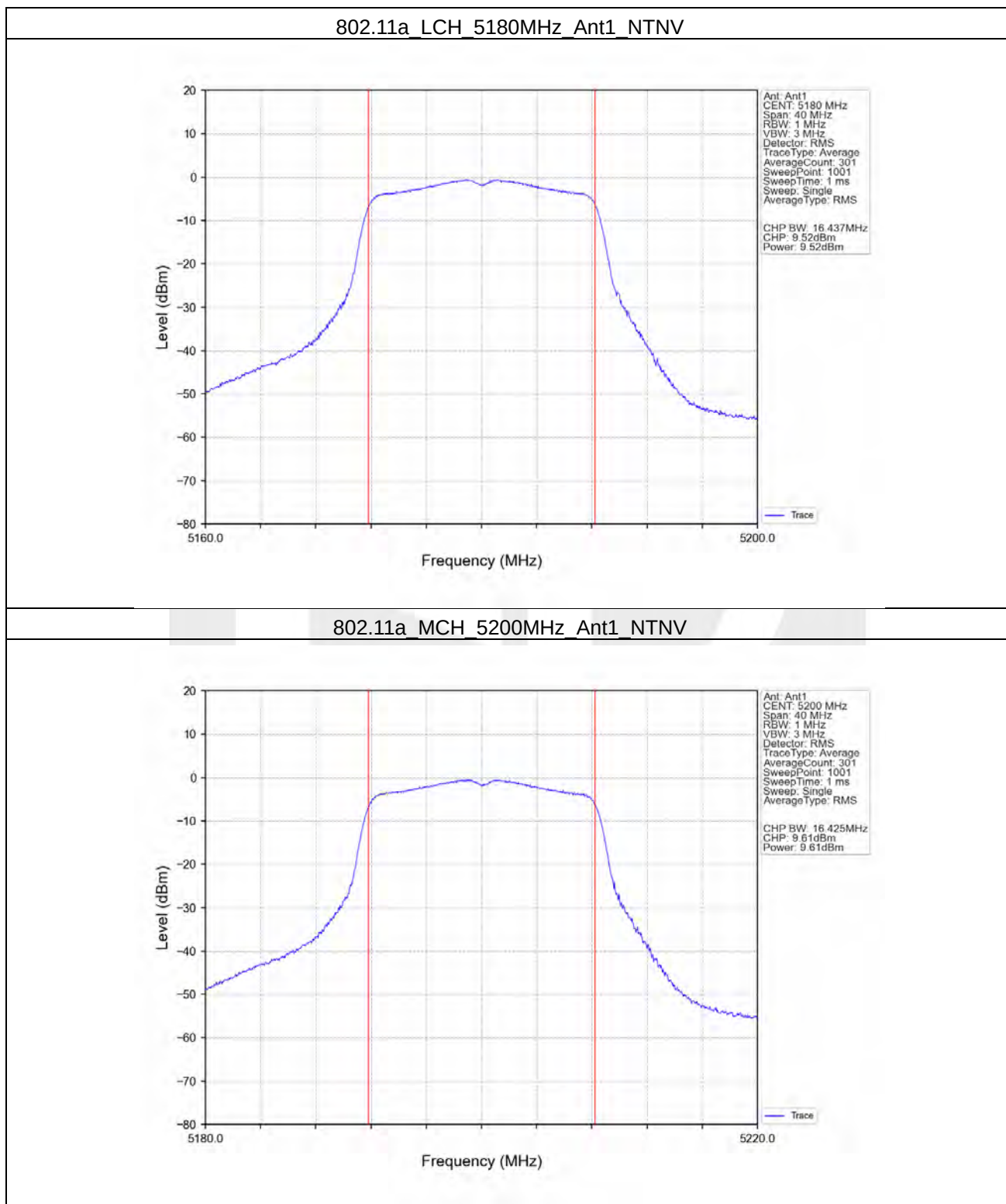
#### 3.1 Test Result

##### 3.1.1 Power

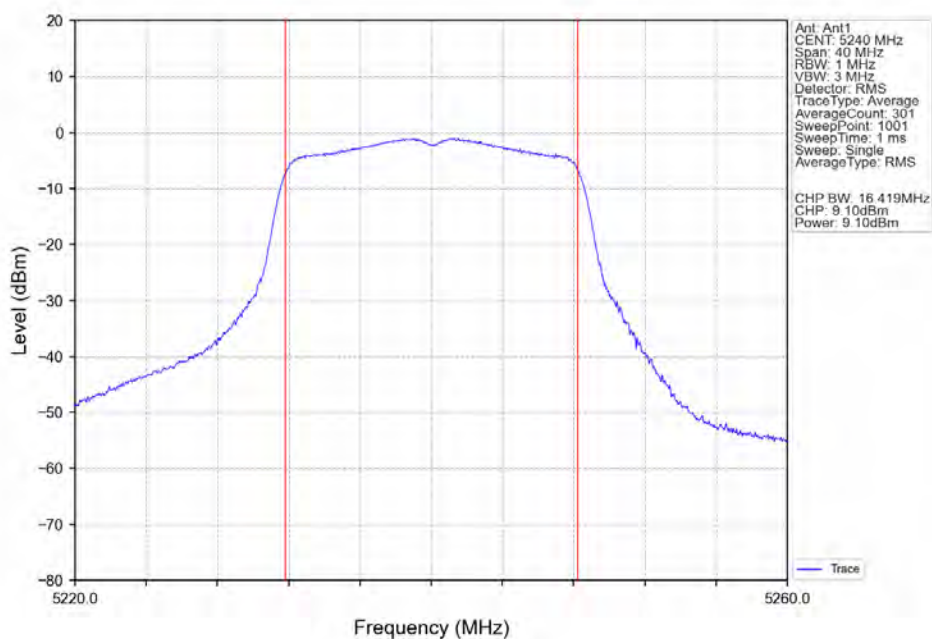
| Mode                                                                         | TX Type | Frequency (MHz) | RU | RU Pos | Maximum Average Conducted Output Power (dBm) |         | Verdict |
|------------------------------------------------------------------------------|---------|-----------------|----|--------|----------------------------------------------|---------|---------|
|                                                                              |         |                 |    |        | ANT1                                         | Limit   |         |
| 802.11a                                                                      | SISO    | 5180            | /  | /      | 9.52                                         | <=23.54 | Pass    |
|                                                                              |         | 5200            | /  | /      | 9.61                                         | <=23.54 | Pass    |
|                                                                              |         | 5240            | /  | /      | 9.10                                         | <=23.54 | Pass    |
|                                                                              |         | 5745            | /  | /      | 8.59                                         | <=29.56 | Pass    |
|                                                                              |         | 5785            | /  | /      | 8.89                                         | <=29.56 | Pass    |
|                                                                              |         | 5825            | /  | /      | 8.91                                         | <=29.56 | Pass    |
| 802.11n (HT20)                                                               | SISO    | 5180            | /  | /      | 9.24                                         | <=23.54 | Pass    |
|                                                                              |         | 5200            | /  | /      | 9.23                                         | <=23.54 | Pass    |
|                                                                              |         | 5240            | /  | /      | 8.76                                         | <=23.54 | Pass    |
|                                                                              |         | 5745            | /  | /      | 8.37                                         | <=29.56 | Pass    |
|                                                                              |         | 5785            | /  | /      | 8.67                                         | <=29.56 | Pass    |
|                                                                              |         | 5825            | /  | /      | 8.87                                         | <=29.56 | Pass    |
| 802.11n (HT40)                                                               | SISO    | 5190            | /  | /      | 8.58                                         | <=23.54 | Pass    |
|                                                                              |         | 5230            | /  | /      | 8.27                                         | <=23.54 | Pass    |
|                                                                              |         | 5755            | /  | /      | 7.39                                         | <=29.56 | Pass    |
|                                                                              |         | 5795            | /  | /      | 7.88                                         | <=29.56 | Pass    |
| 802.11ac (VHT20)                                                             | SISO    | 5180            | /  | /      | 9.25                                         | <=23.54 | Pass    |
|                                                                              |         | 5200            | /  | /      | 9.29                                         | <=23.54 | Pass    |
|                                                                              |         | 5240            | /  | /      | 8.78                                         | <=23.54 | Pass    |
|                                                                              |         | 5745            | /  | /      | 8.23                                         | <=29.56 | Pass    |
|                                                                              |         | 5785            | /  | /      | 8.29                                         | <=29.56 | Pass    |
|                                                                              |         | 5825            | /  | /      | 8.85                                         | <=29.56 | Pass    |
| 802.11ax (HEW20)                                                             | SISO    | 5180            | SU | /      | 9.30                                         | <=23.54 | Pass    |
|                                                                              |         | 5200            | SU | /      | 9.04                                         | <=23.54 | Pass    |
|                                                                              |         | 5240            | SU | /      | 8.84                                         | <=23.54 | Pass    |
|                                                                              |         | 5745            | SU | /      | 8.12                                         | <=29.56 | Pass    |
|                                                                              |         | 5785            | SU | /      | 7.97                                         | <=29.56 | Pass    |
|                                                                              |         | 5825            | SU | /      | 8.40                                         | <=29.56 | Pass    |
| Note1: Antenna Gain:<br>- Band: 1 Ant1: 6.44dBi;<br>- Band: 3 Ant1: 6.44dBi; |         |                 |    |        |                                              |         |         |

## 3.2 Test Graph

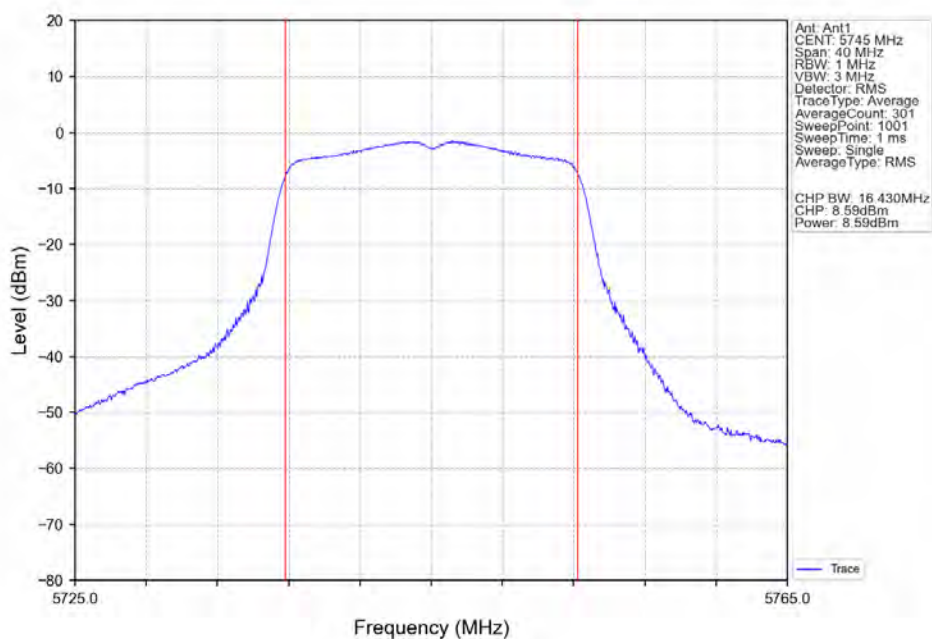
### 3.2.1 Power



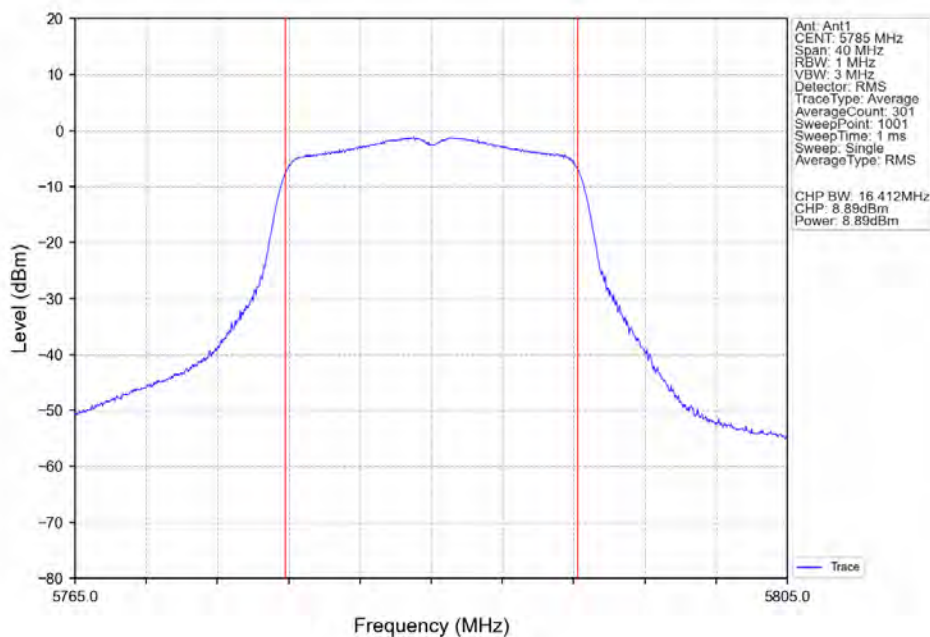
802.11a HCH 5240MHz Ant1 NTVN



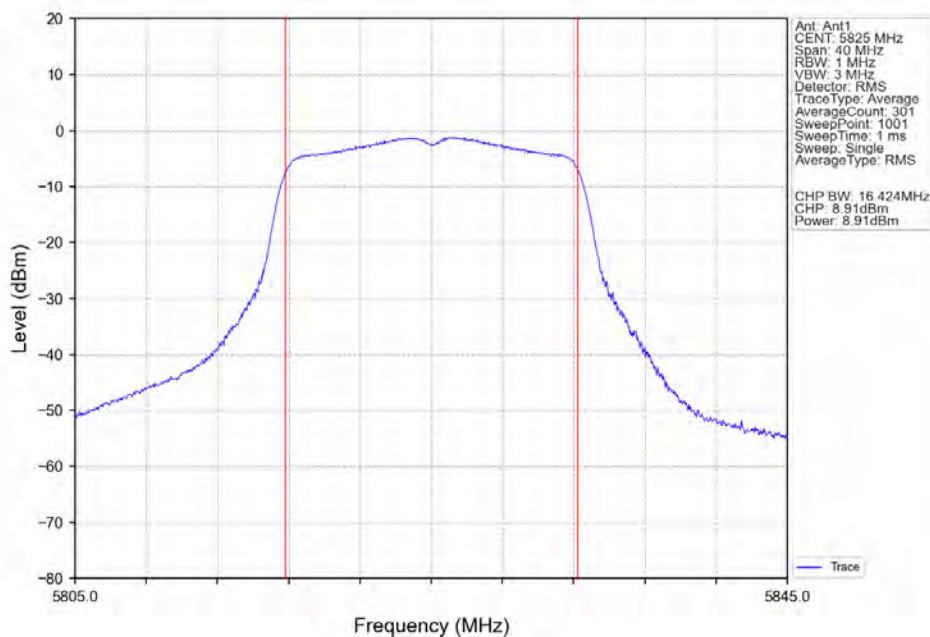
802.11a LCH 5745MHz Ant1 NTVN



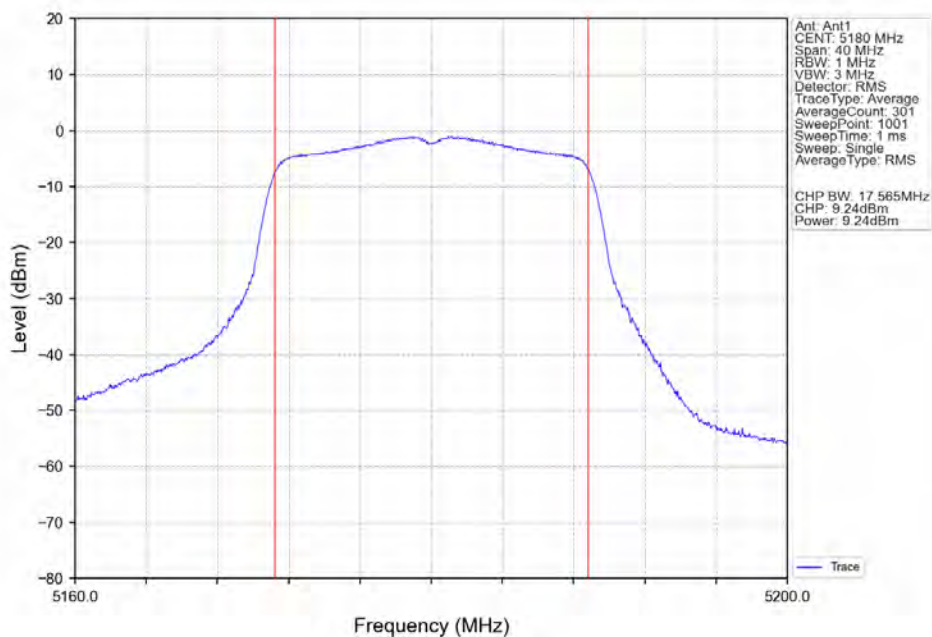
802.11a MCH 5785MHz Ant1 NTN



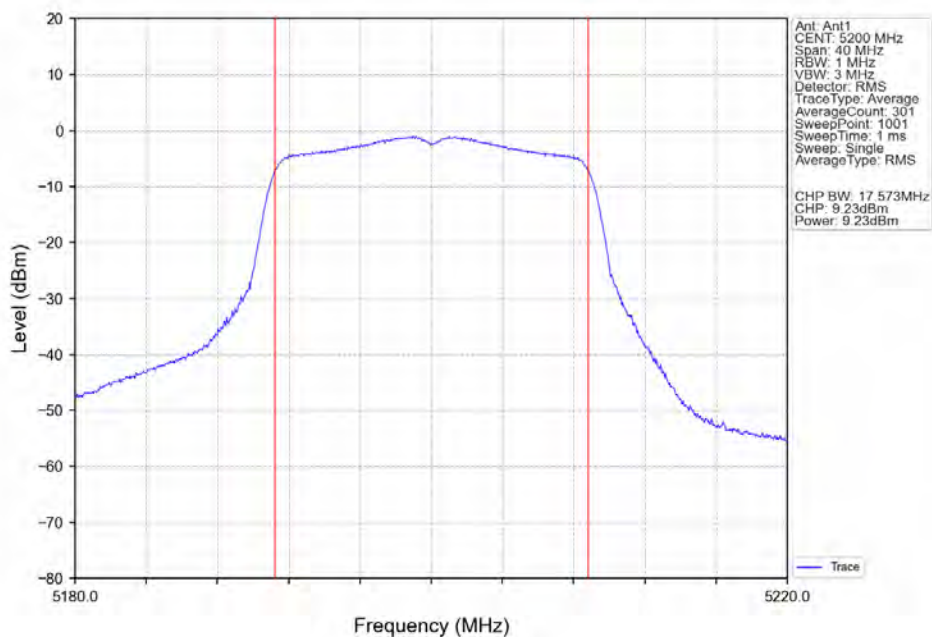
802.11a HCH 5825MHz Ant1 NTN



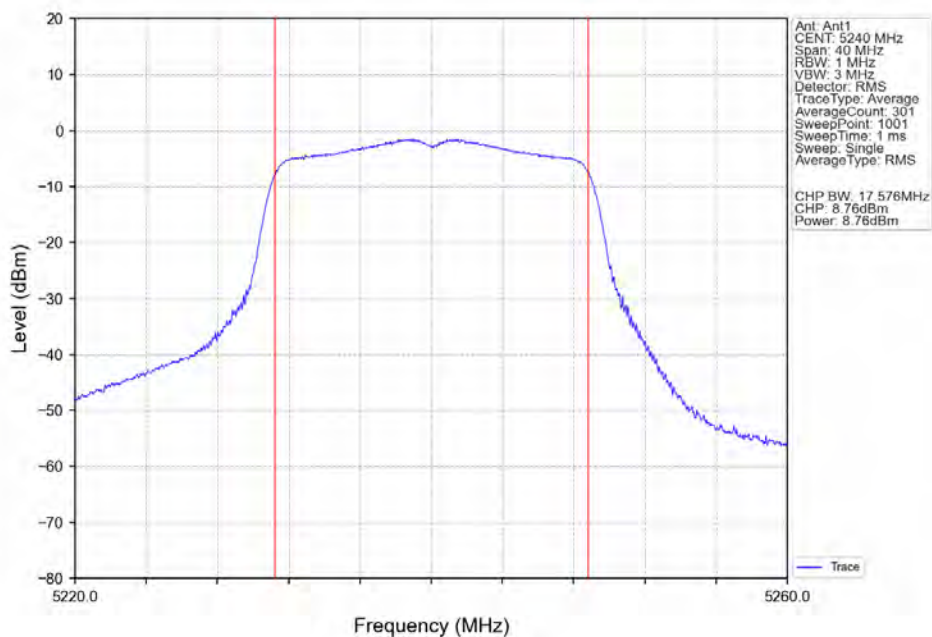
802.11n(HT20) LCH 5180MHz Ant1 NTNV



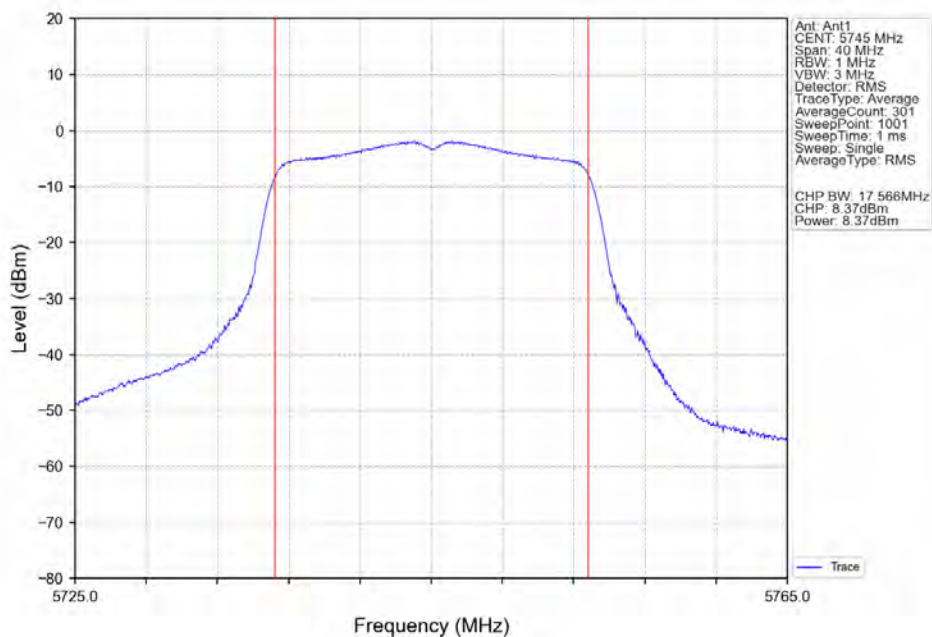
802.11n(HT20) MCH 5200MHz Ant1 NTNV



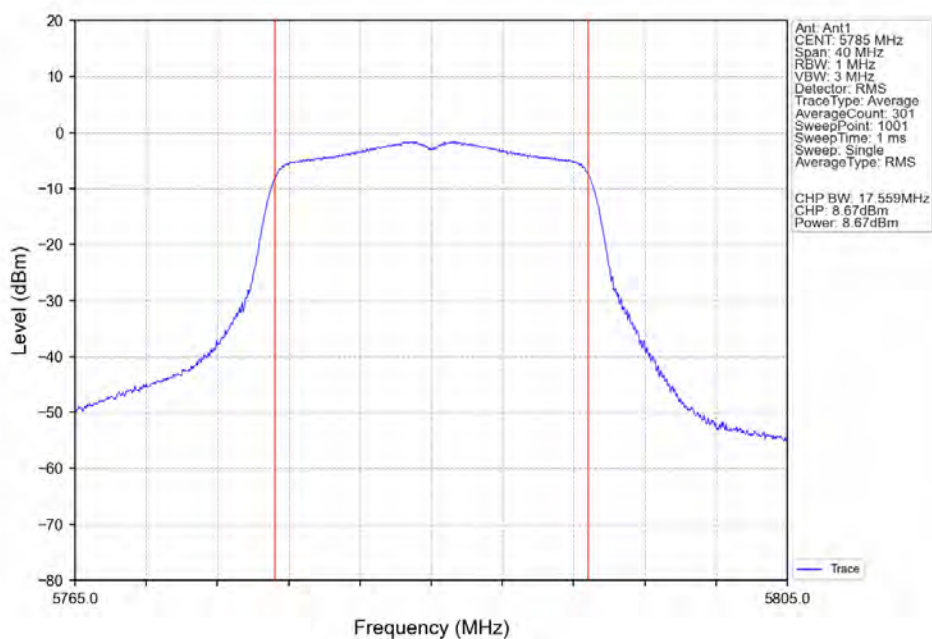
802.11n(HT20) HCH 5240MHz Ant1\_NTNV



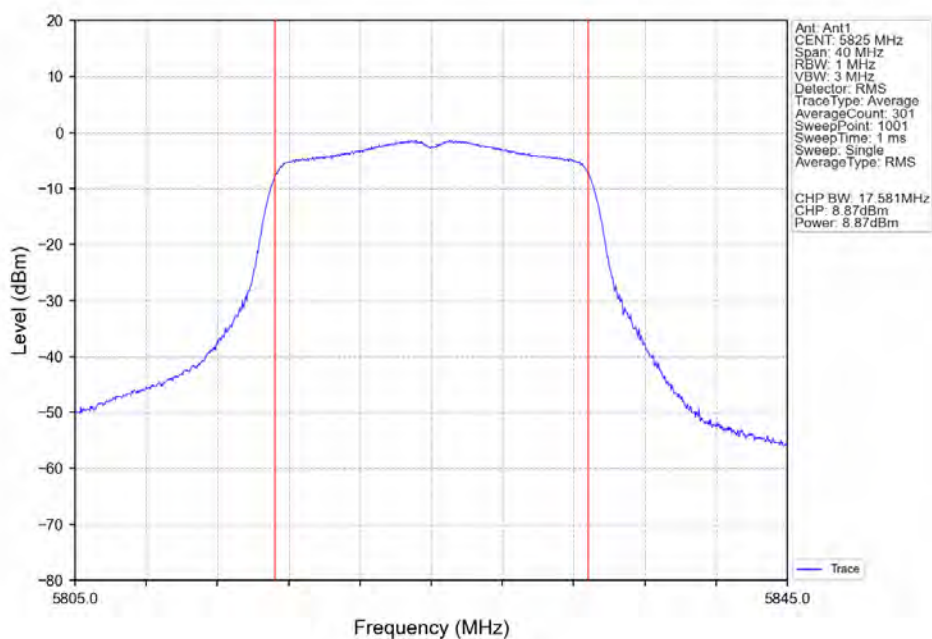
802.11n(HT20) LCH 5745MHz Ant1\_NTNV



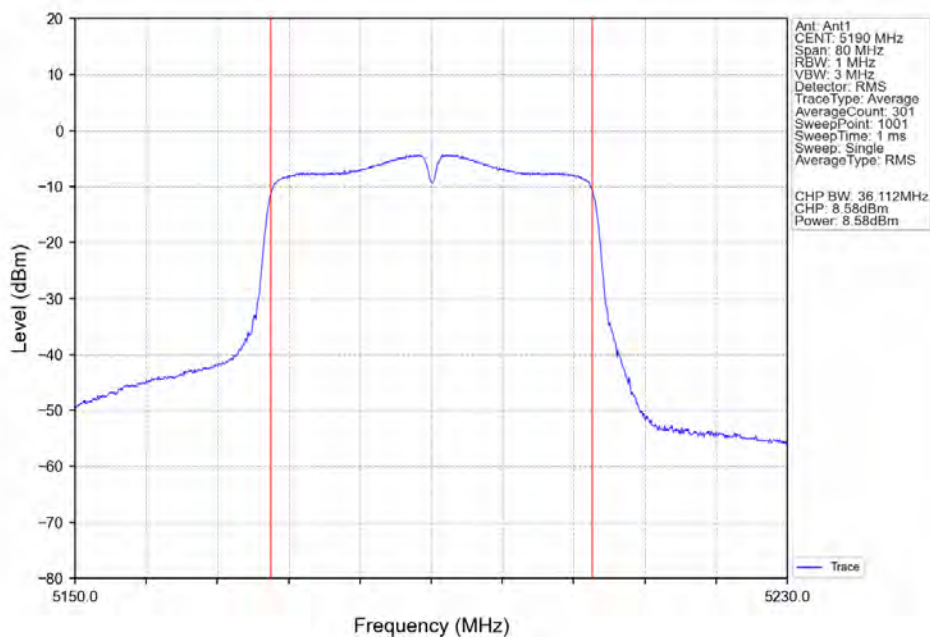
802.11n(HT20) MCH 5785MHz Ant1\_NTNV



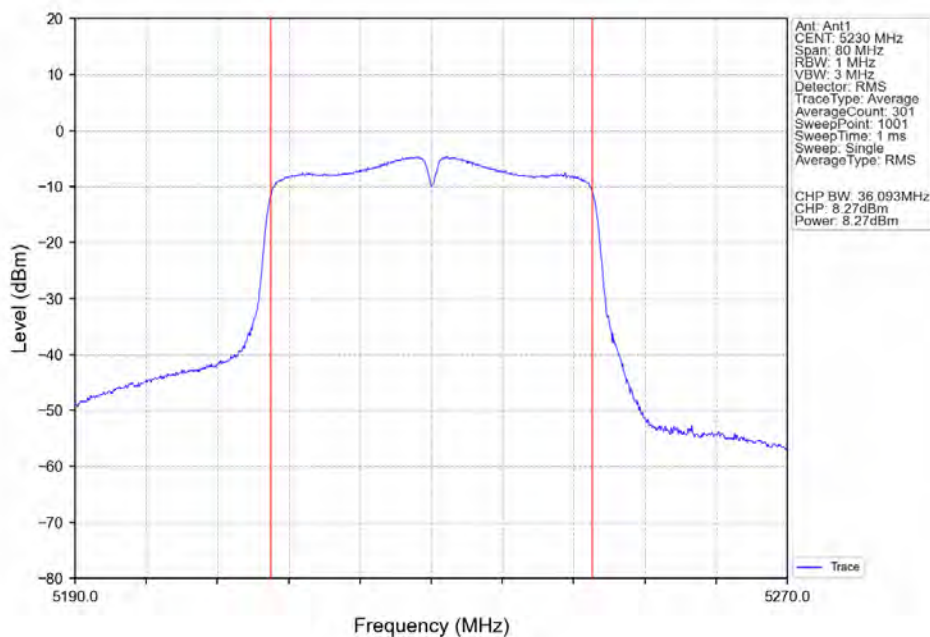
802.11n(HT20) HCH 5825MHz Ant1\_NTNV



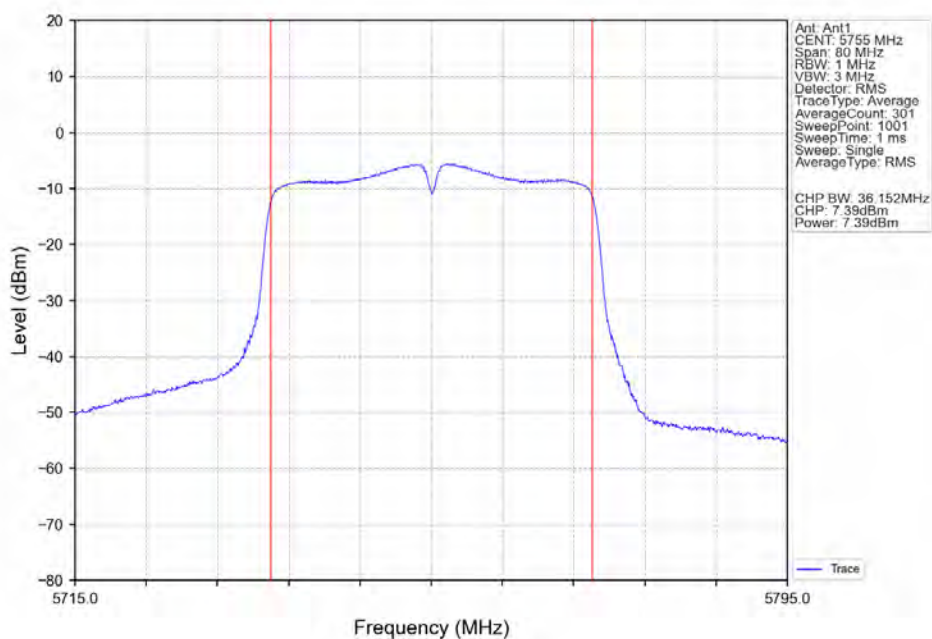
802.11n(HT40) LCH 5190MHz Ant1 NTN



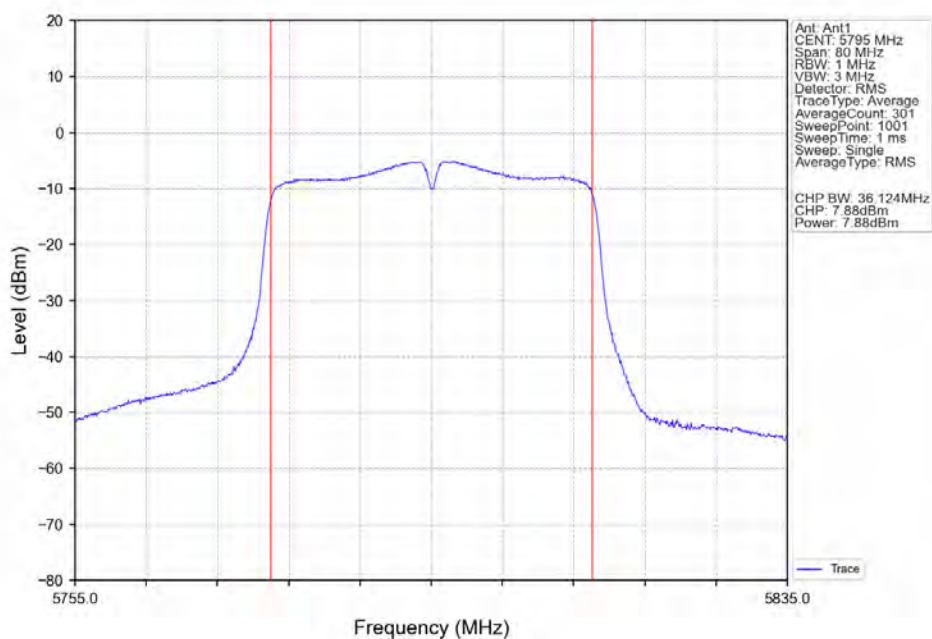
802.11n(HT40) HCH 5230MHz Ant1 NTN



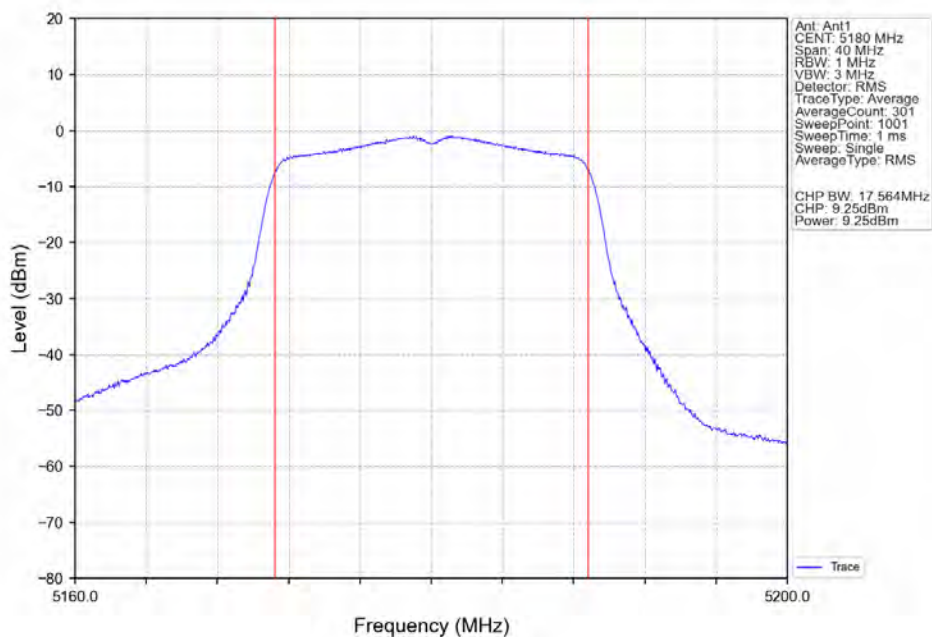
802.11n(HT40) LCH 5755MHz Ant1\_NTNV



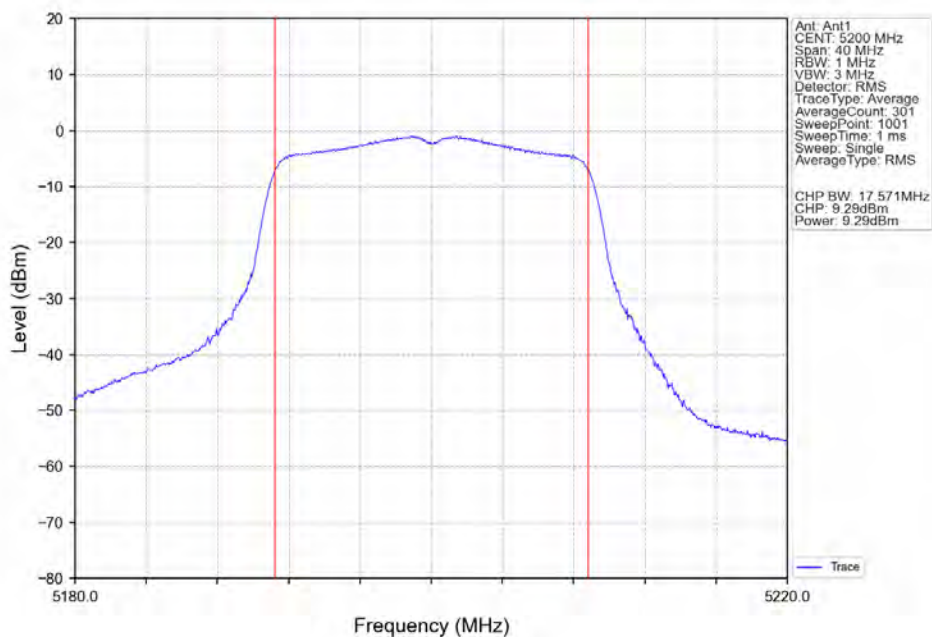
802.11n(HT40) HCH 5795MHz Ant1\_NTNV



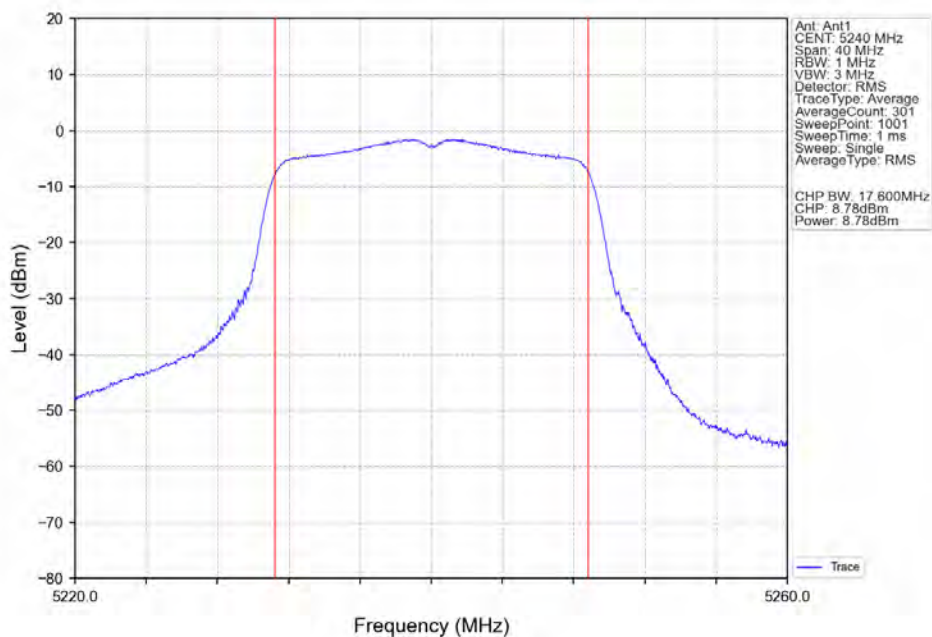
802.11ac(VHT20) LCH 5180MHz Ant1 NTN



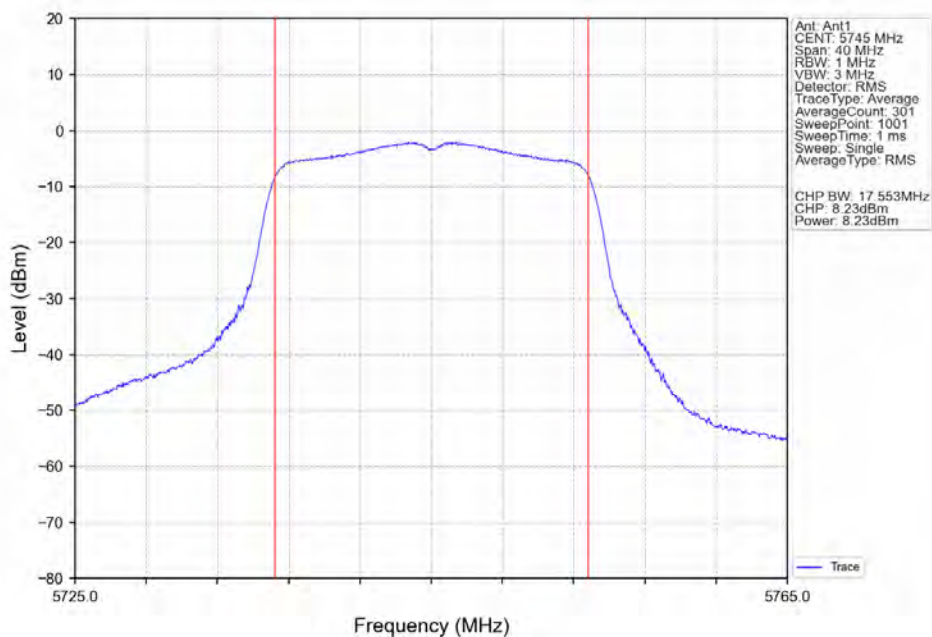
802.11ac(VHT20) MCH 5200MHz Ant1 NTN



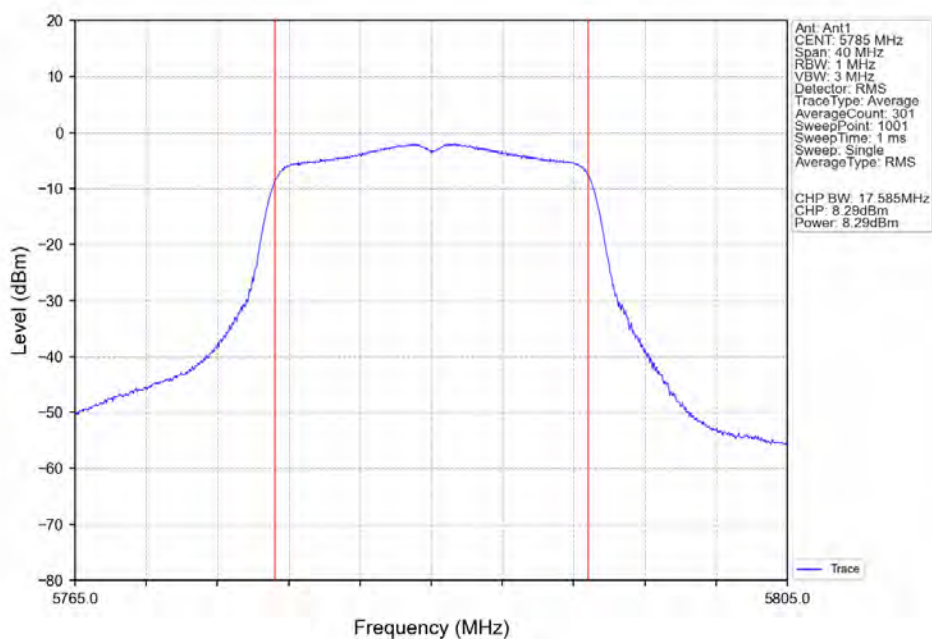
802.11ac(VHT20) HCH 5240MHz Ant1 NTN



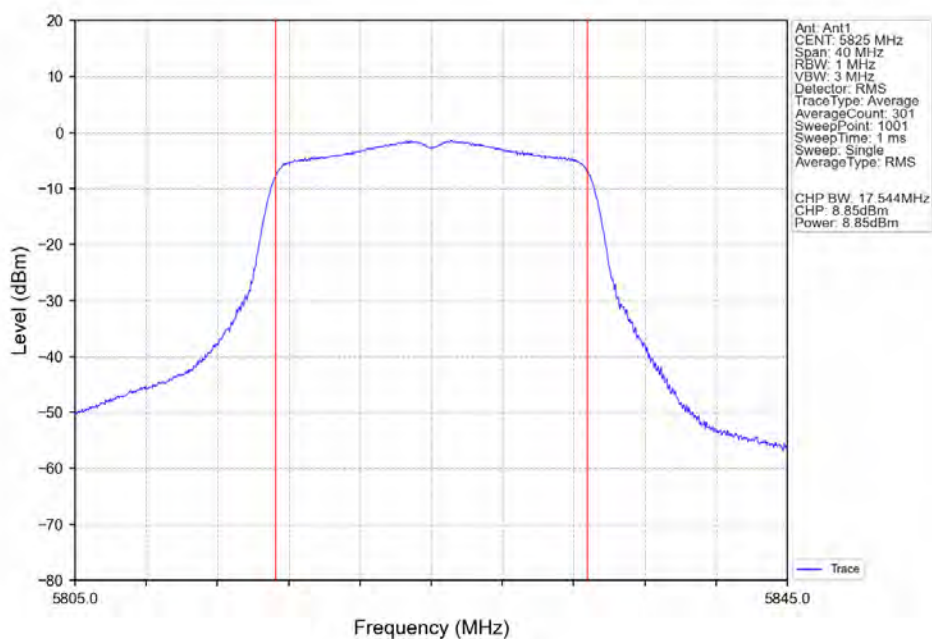
802.11ac(VHT20) LCH 5745MHz Ant1 NTN



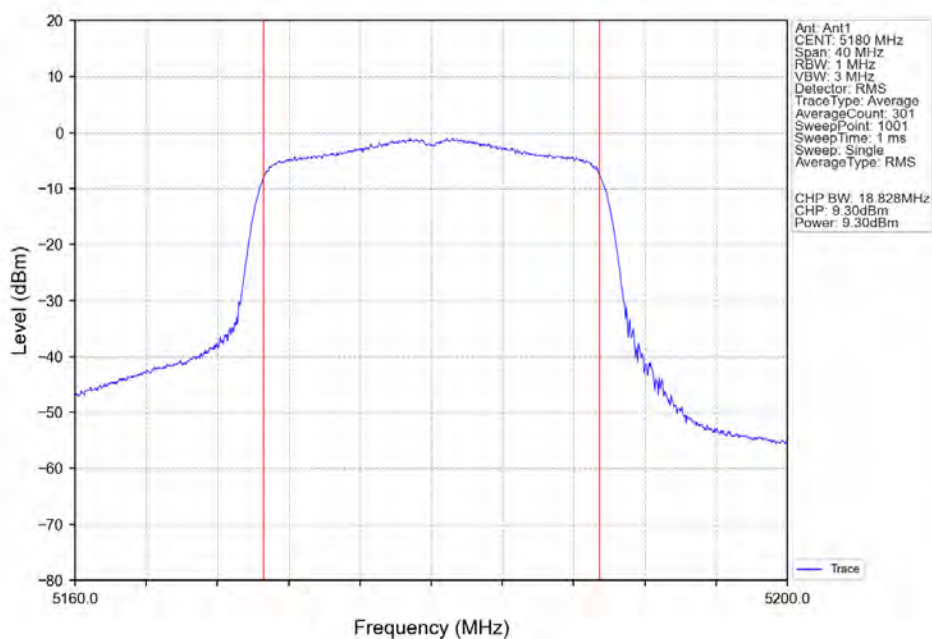
802.11ac(VHT20) MCH 5785MHz Ant1 NTN



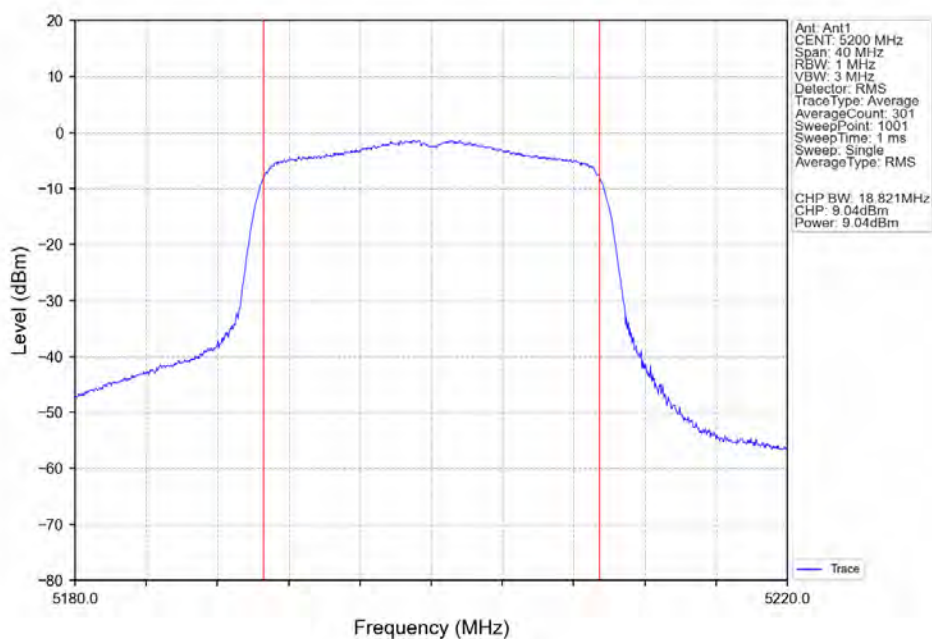
802.11ac(VHT20) HCH 5825MHz Ant1 NTN



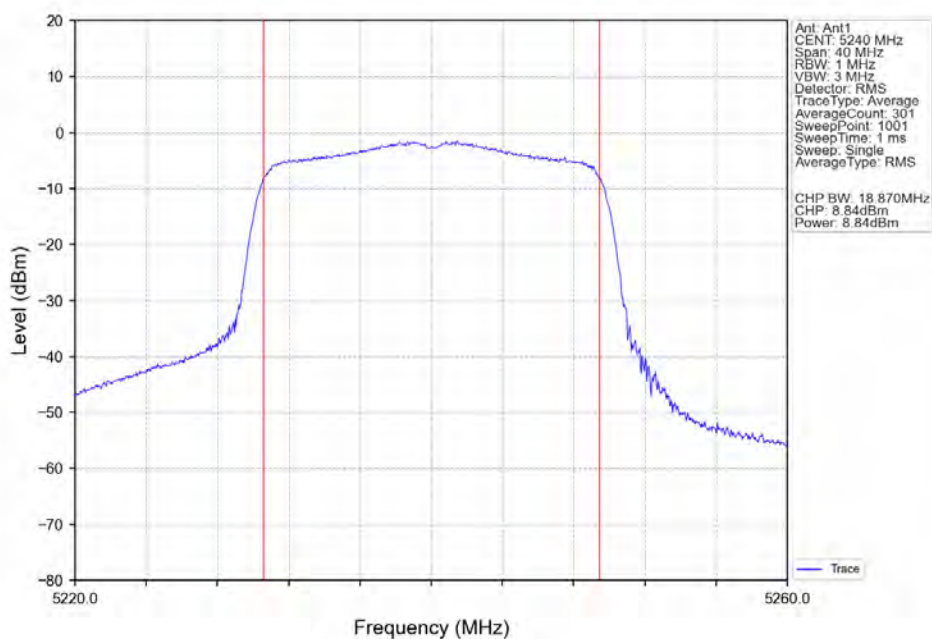
802.11ax(HEW20) LCH 5180MHz SU / Ant1 NTNV



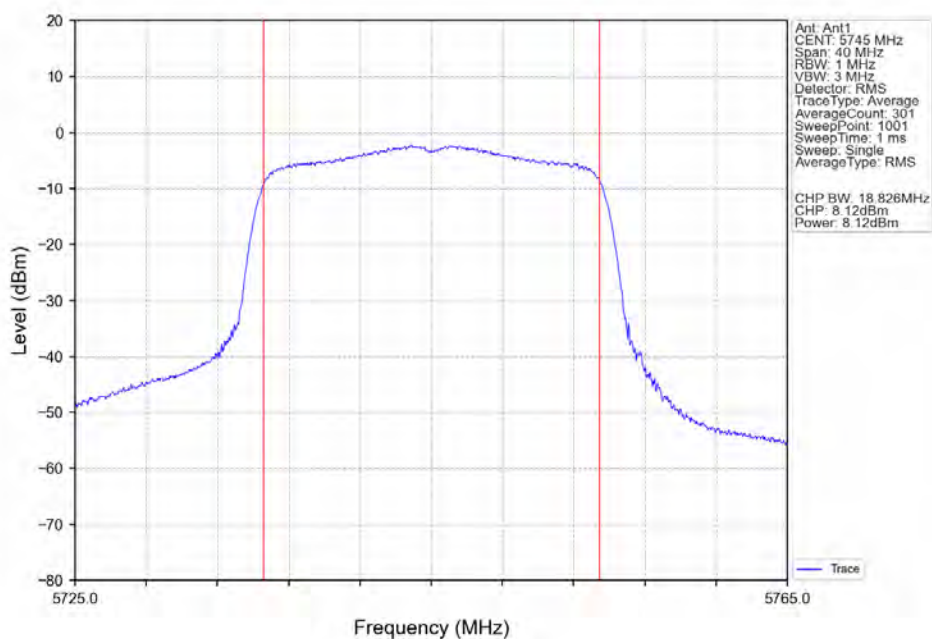
802.11ax(HEW20) MCH 5200MHz SU / Ant1 NTNV



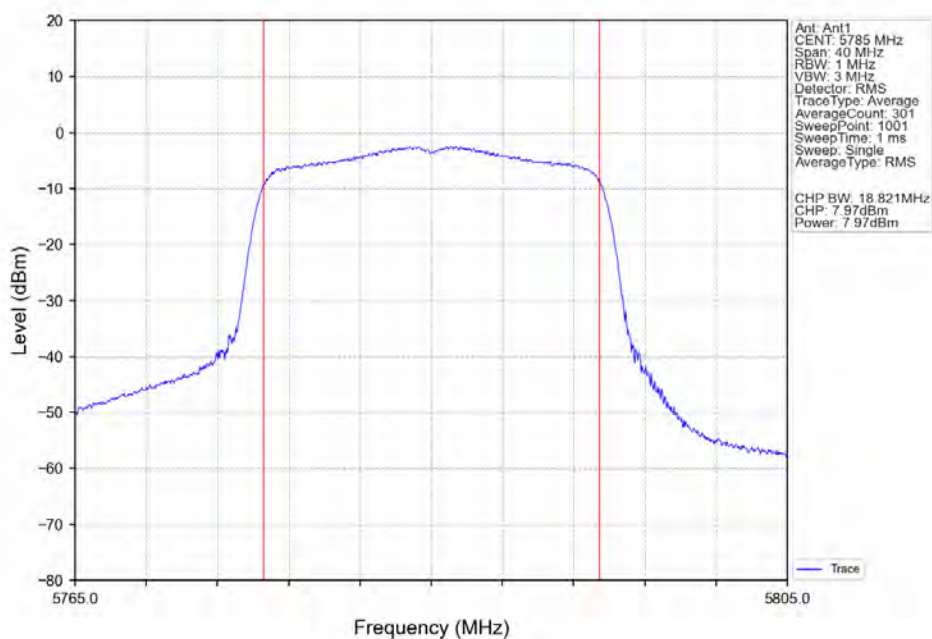
802.11ax(HEW20) HCH 5240MHz SU / Ant1 NTN



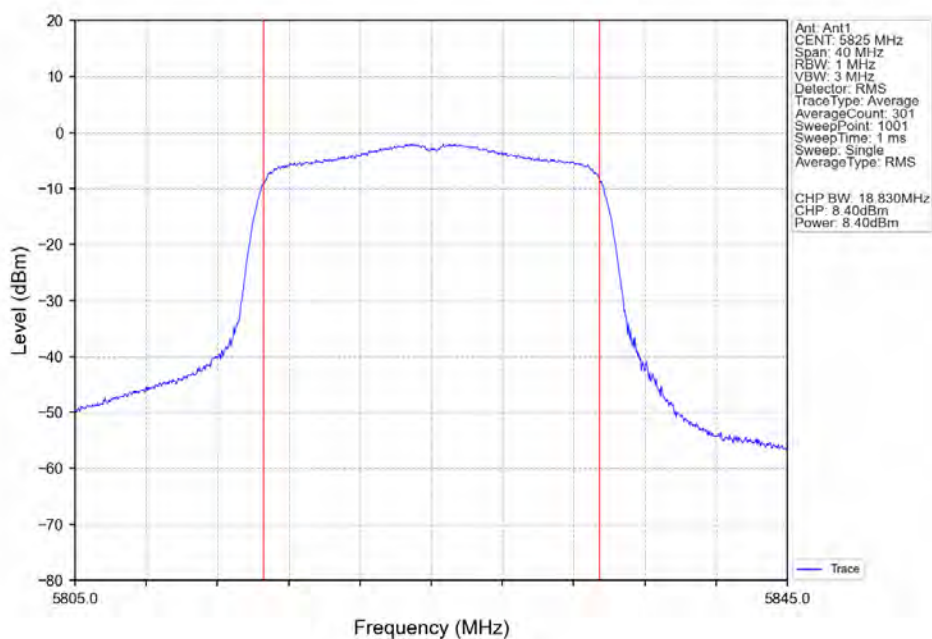
802.11ax(HEW20) LCH 5745MHz SU / Ant1 NTN



802.11ax(HEW20) MCH 5785MHz SU / Ant1 NTN



802.11ax(HEW20) HCH 5825MHz SU / Ant1 NTN



#### 4. Maximum Power Spectral Density

##### 4.1 Test Result

##### 4.1.1 PSD

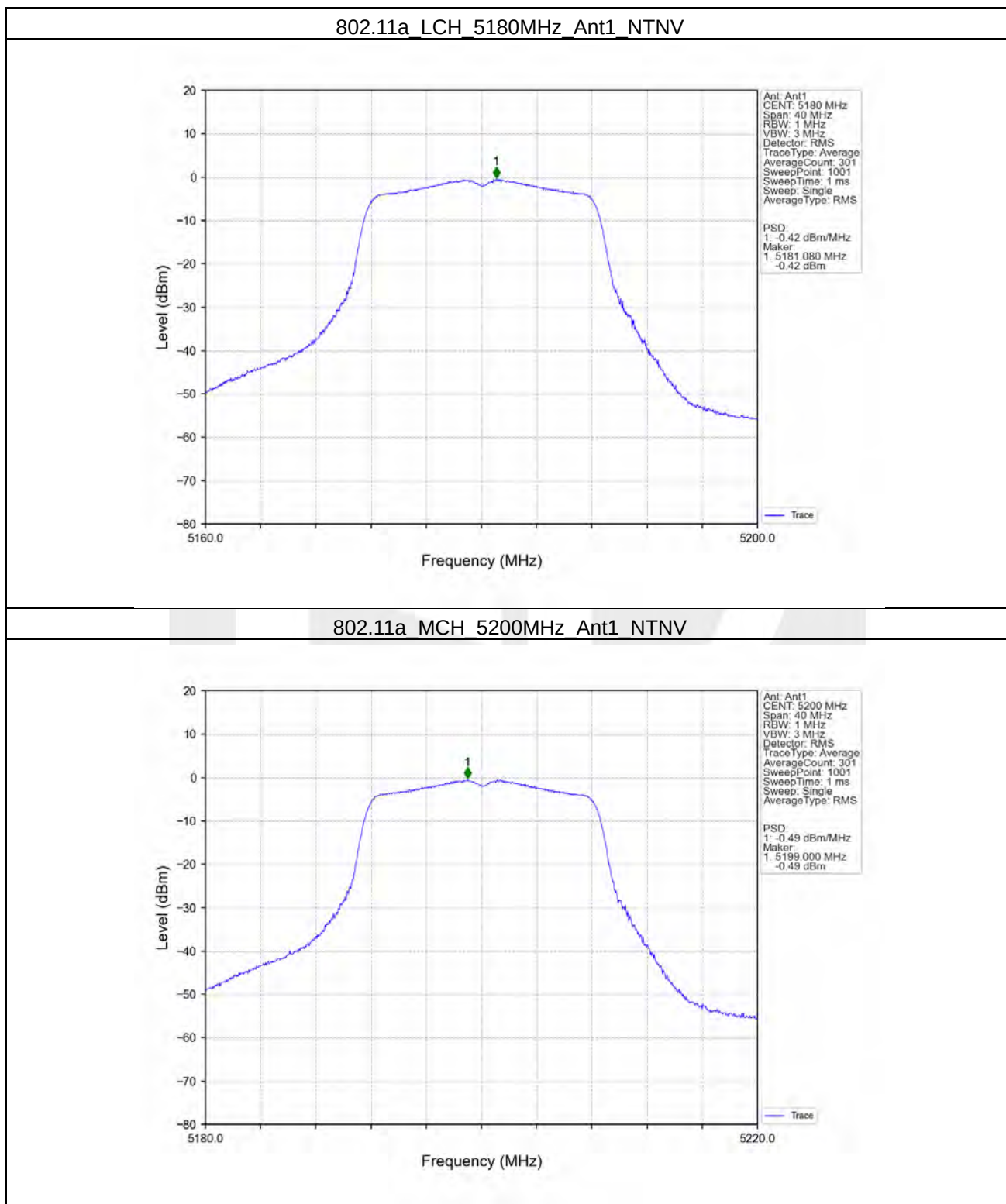
| Mode             | TX Type | Frequency (MHz) | RU | RU Pos | Maximum PSD (dBm/MHz) |         | Verdict |
|------------------|---------|-----------------|----|--------|-----------------------|---------|---------|
|                  |         |                 |    |        | ANT1                  | Limit   |         |
| 802.11a          | SISO    | 5180            | /  | /      | -0.42                 | <=10.56 | Pass    |
|                  |         | 5200            | /  | /      | -0.49                 | <=10.56 | Pass    |
|                  |         | 5240            | /  | /      | -0.93                 | <=10.56 | Pass    |
| 802.11n (HT20)   | SISO    | 5180            | /  | /      | -0.88                 | <=10.56 | Pass    |
|                  |         | 5200            | /  | /      | -0.94                 | <=10.56 | Pass    |
|                  |         | 5240            | /  | /      | -1.39                 | <=10.56 | Pass    |
| 802.11n (HT40)   | SISO    | 5190            | /  | /      | -4.25                 | <=10.56 | Pass    |
|                  |         | 5230            | /  | /      | -4.56                 | <=10.56 | Pass    |
| 802.11ac (VHT20) | SISO    | 5180            | /  | /      | -1.06                 | <=10.56 | Pass    |
|                  |         | 5200            | /  | /      | -0.95                 | <=10.56 | Pass    |
|                  |         | 5240            | /  | /      | -1.58                 | <=10.56 | Pass    |
| 802.11ax (HEW20) | SISO    | 5180            | SU | /      | -1.01                 | <=10.56 | Pass    |
|                  |         | 5200            | SU | /      | -1.36                 | <=10.56 | Pass    |
|                  |         | 5240            | SU | /      | -1.57                 | <=10.56 | Pass    |

#### 4.1.2 PSD-Band3

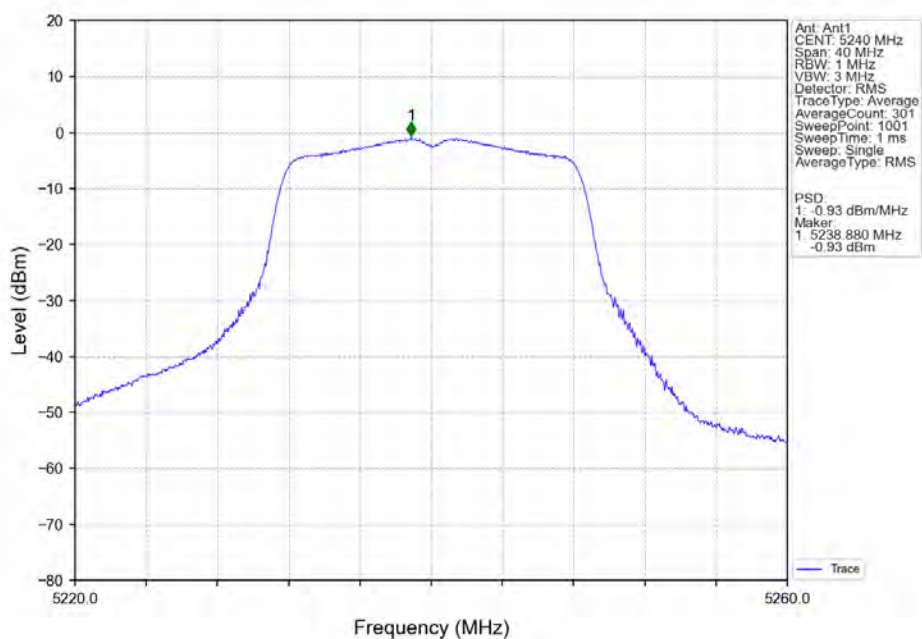
| Mode             | TX Type | Frequency (MHz) | RU | RU Pos | Maximum PSD (dBm/500kHz) |         | Verdict |
|------------------|---------|-----------------|----|--------|--------------------------|---------|---------|
|                  |         |                 |    |        | ANT1                     | Limit   |         |
| 802.11a          | SISO    | 5745            | /  | /      | -4.38                    | <=29.56 | Pass    |
|                  |         | 5785            | /  | /      | -3.90                    | <=29.56 | Pass    |
|                  |         | 5825            | /  | /      | -3.85                    | <=29.56 | Pass    |
| 802.11n (HT20)   | SISO    | 5745            | /  | /      | -4.75                    | <=29.56 | Pass    |
|                  |         | 5785            | /  | /      | -4.15                    | <=29.56 | Pass    |
|                  |         | 5825            | /  | /      | -4.18                    | <=29.56 | Pass    |
| 802.11n (HT40)   | SISO    | 5755            | /  | /      | -8.36                    | <=29.56 | Pass    |
|                  |         | 5795            | /  | /      | -7.88                    | <=29.56 | Pass    |
| 802.11ac (VHT20) | SISO    | 5745            | /  | /      | -4.93                    | <=29.56 | Pass    |
|                  |         | 5785            | /  | /      | -4.83                    | <=29.56 | Pass    |
|                  |         | 5825            | /  | /      | -4.30                    | <=29.56 | Pass    |
| 802.11ax (HEW20) | SISO    | 5745            | SU | /      | -5.01                    | <=29.56 | Pass    |
|                  |         | 5785            | SU | /      | -5.17                    | <=29.56 | Pass    |
|                  |         | 5825            | SU | /      | -4.84                    | <=29.56 | Pass    |

## 4.2 Test Graph

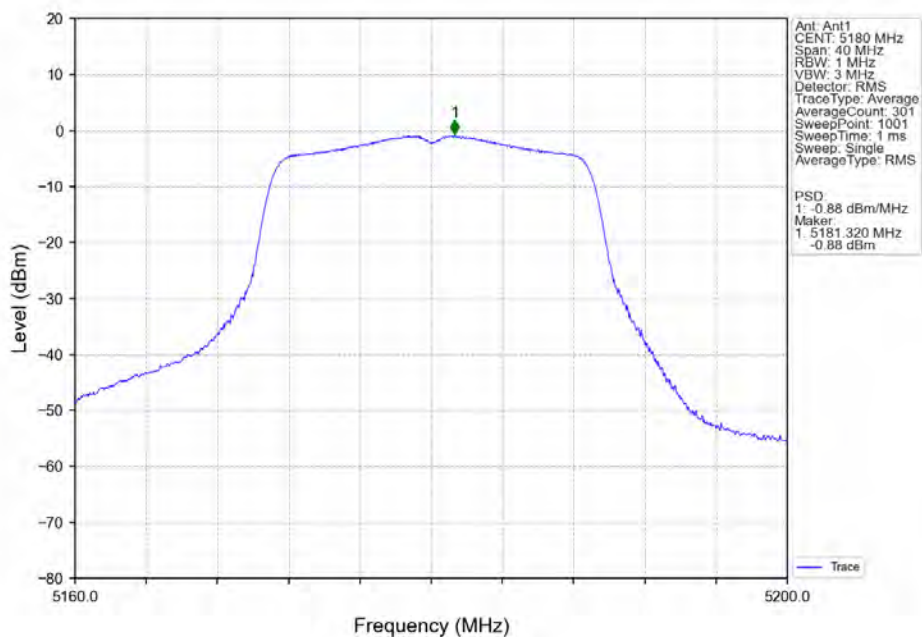
### 4.2.1 PSD



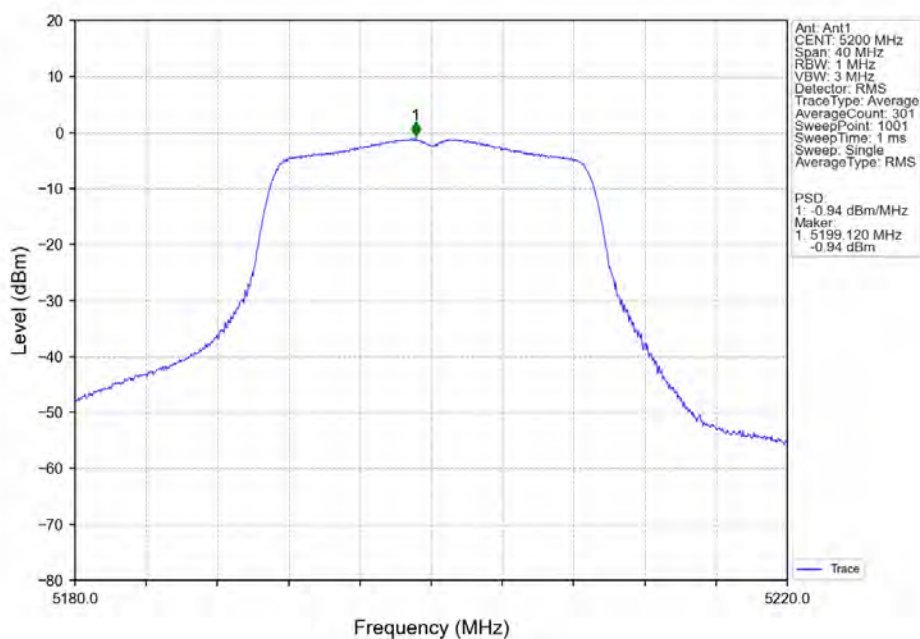
802.11a HCH 5240MHz Ant1 NTN



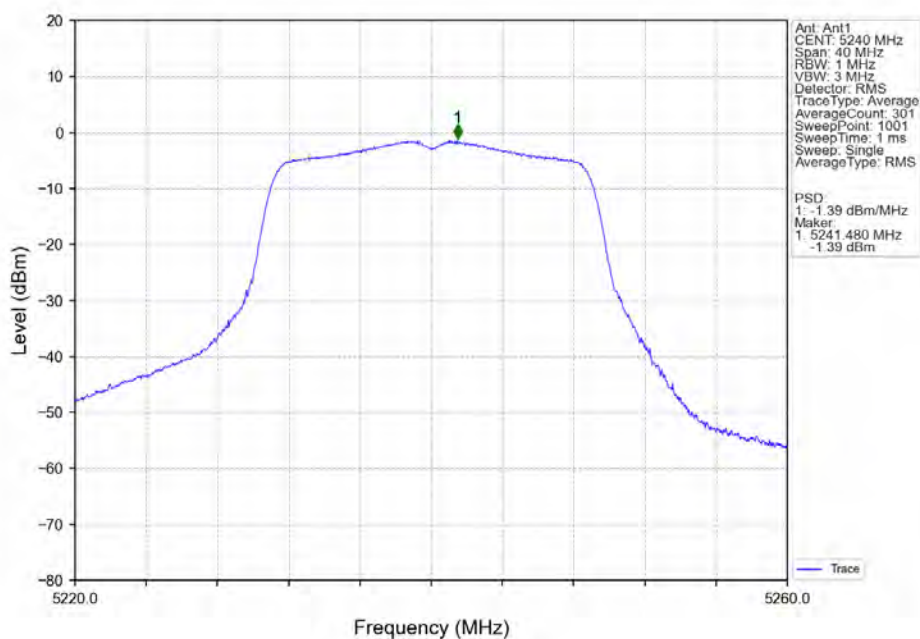
802.11n(HT20) LCH 5180MHz Ant1 NTN



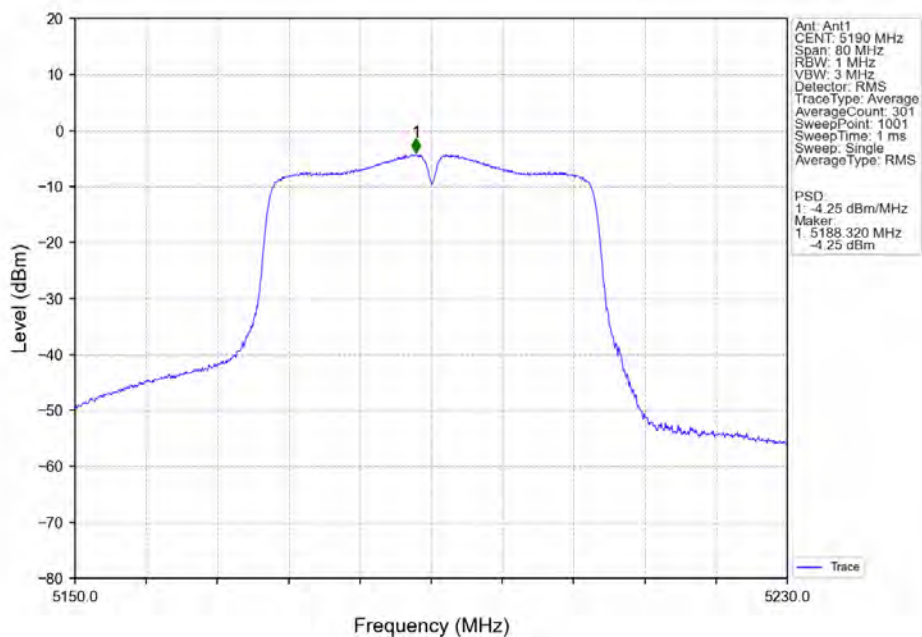
802.11n(HT20) MCH 5200MHz Ant1\_NTNV



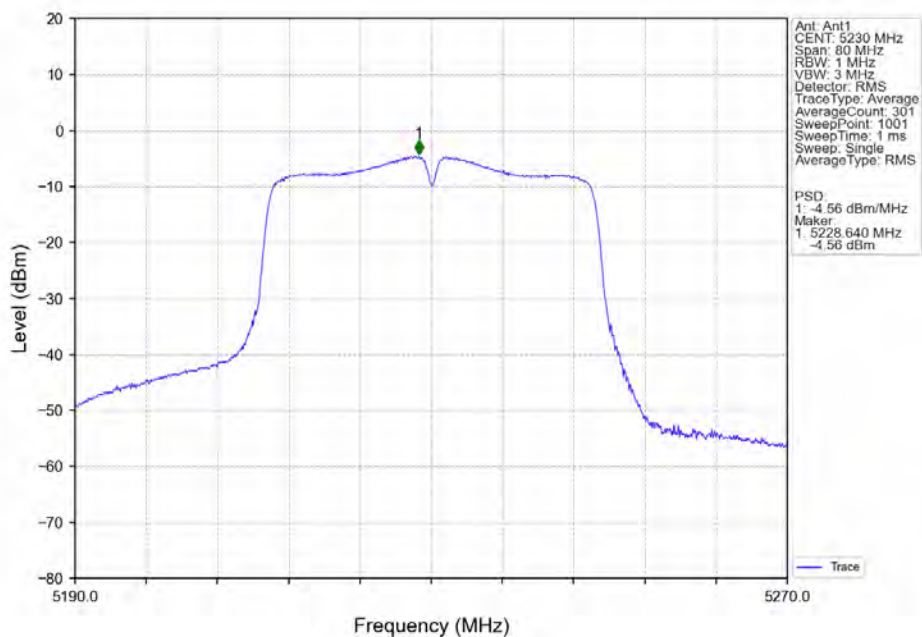
802.11n(HT20) HCH 5240MHz Ant1\_NTNV



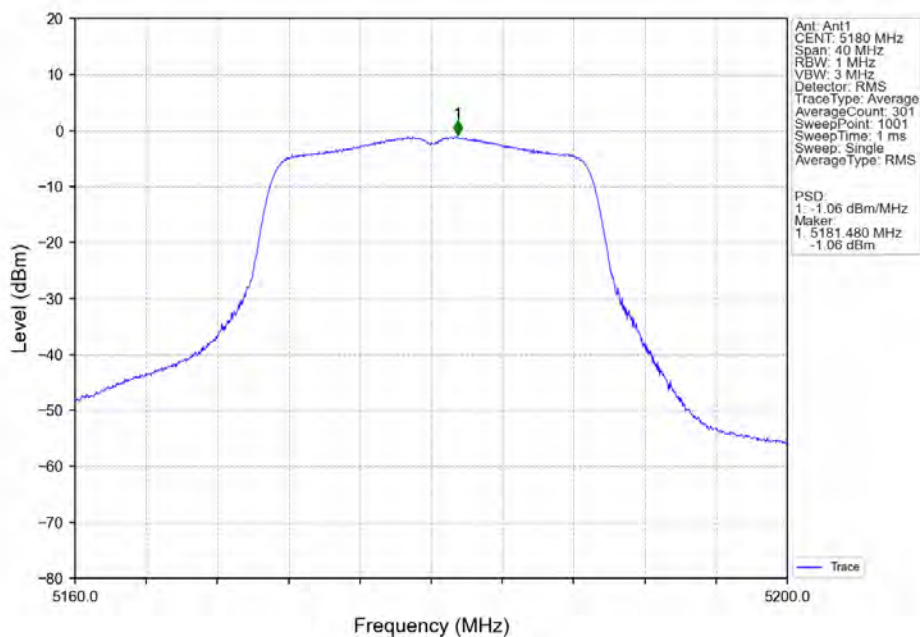
802.11n(HT40) LCH 5190MHz Ant1 NTN



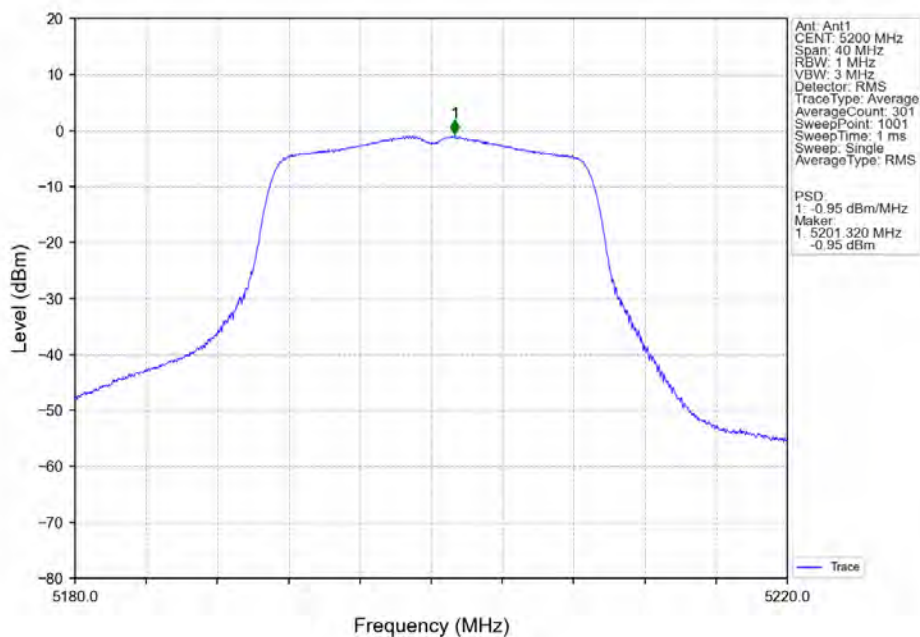
802.11n(HT40) HCH 5230MHz Ant1 NTN



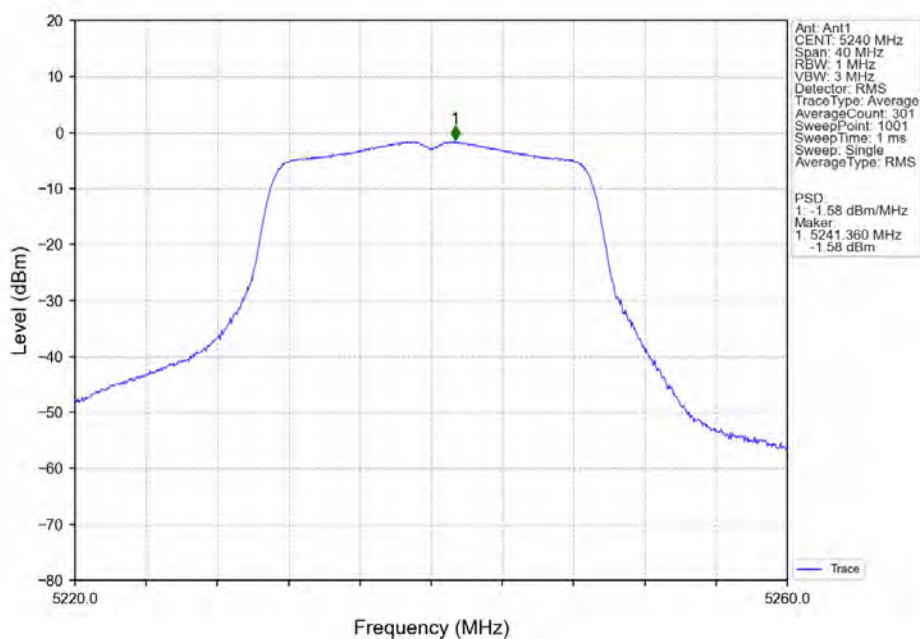
802.11ac(VHT20) LCH 5180MHz Ant1 NTN



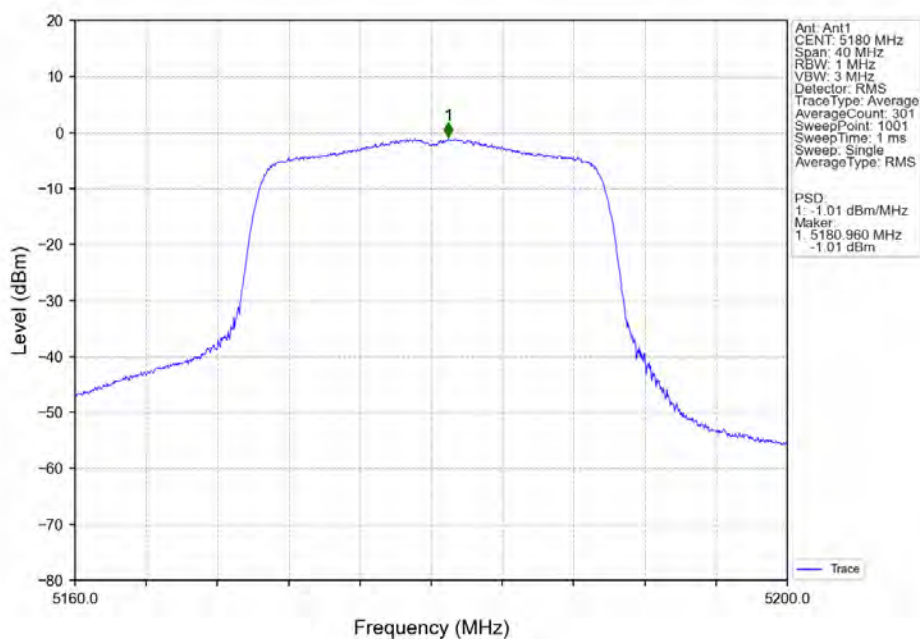
802.11ac(VHT20) MCH 5200MHz Ant1 NTN



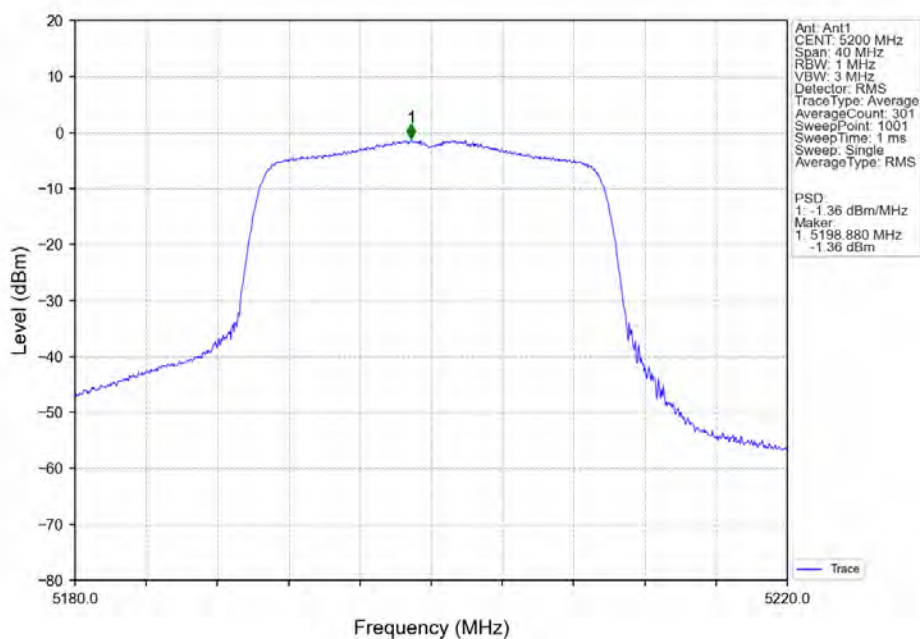
802.11ac(VHT20) HCH 5240MHz Ant1 NTN



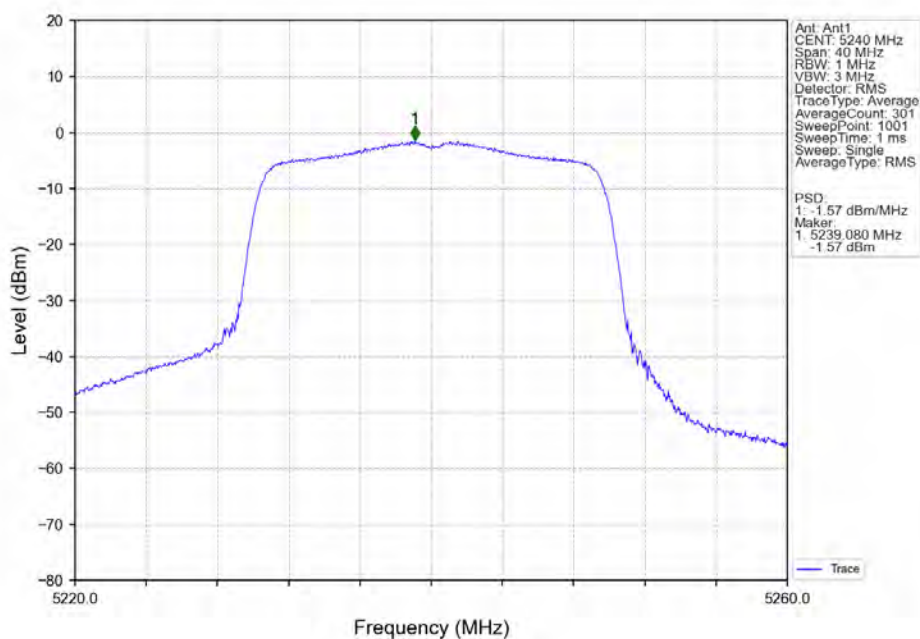
802.11ax(HEW20) LCH 5180MHz SU / Ant1 NTN



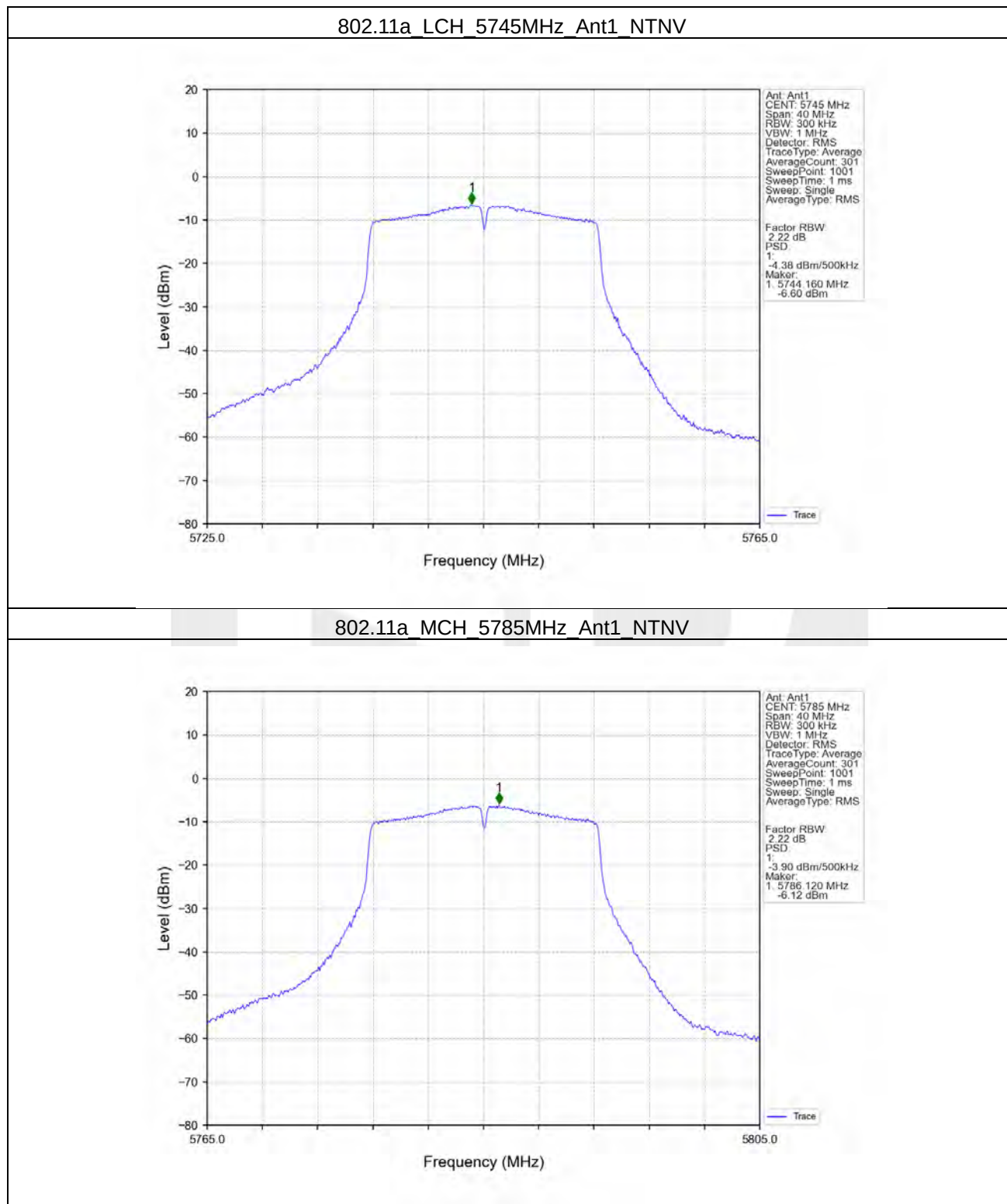
802.11ax(HEW20) MCH 5200MHz SU / Ant1 NTN



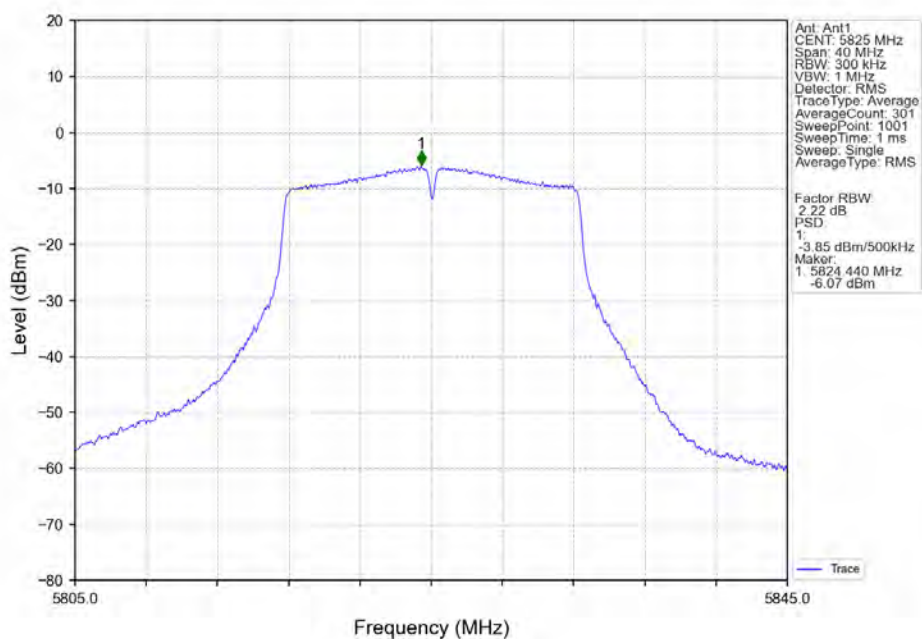
802.11ax(HEW20) HCH 5240MHz SU / Ant1 NTN



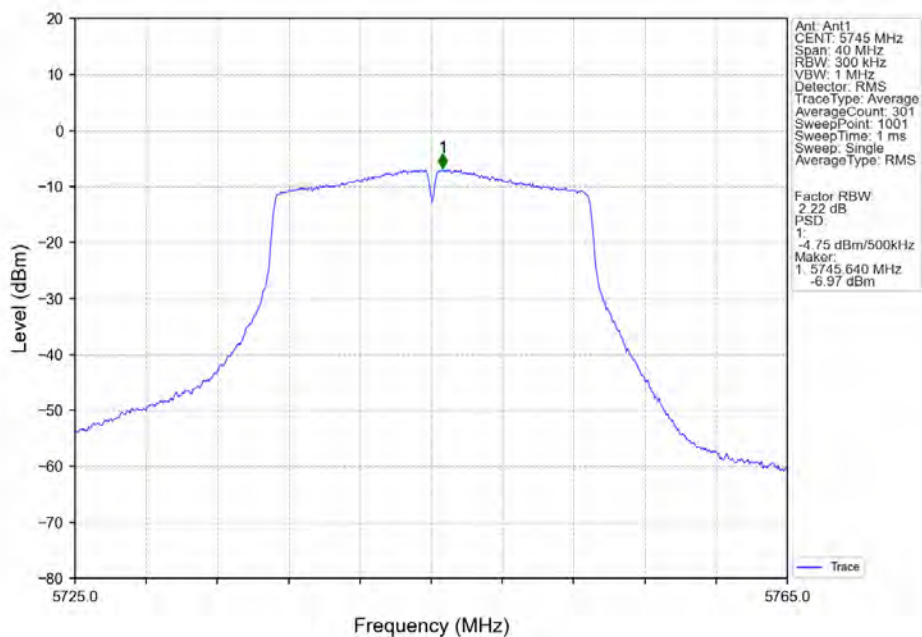
#### 4.2.2 PSD-Band3



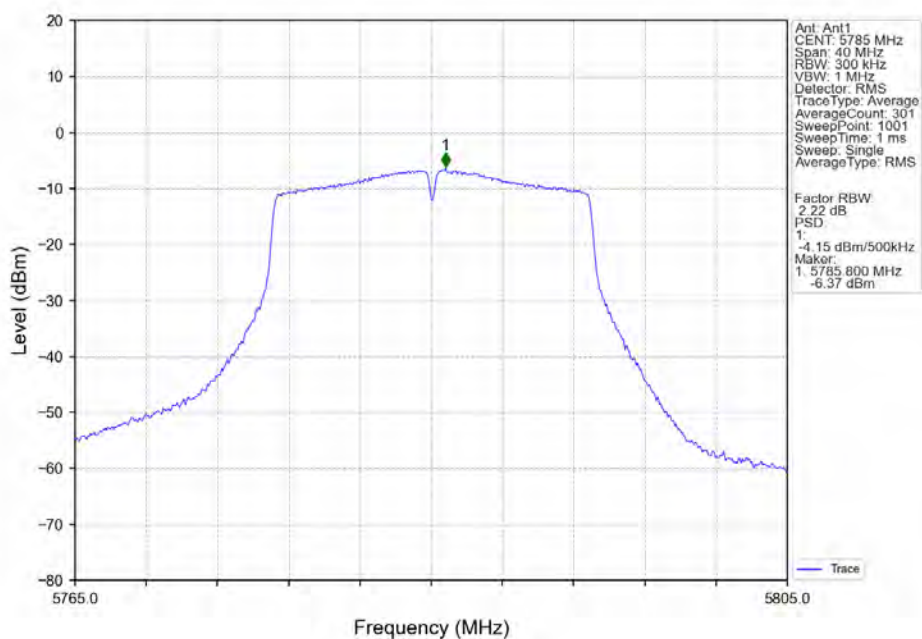
802.11a HCH 5825MHz Ant1 NTN



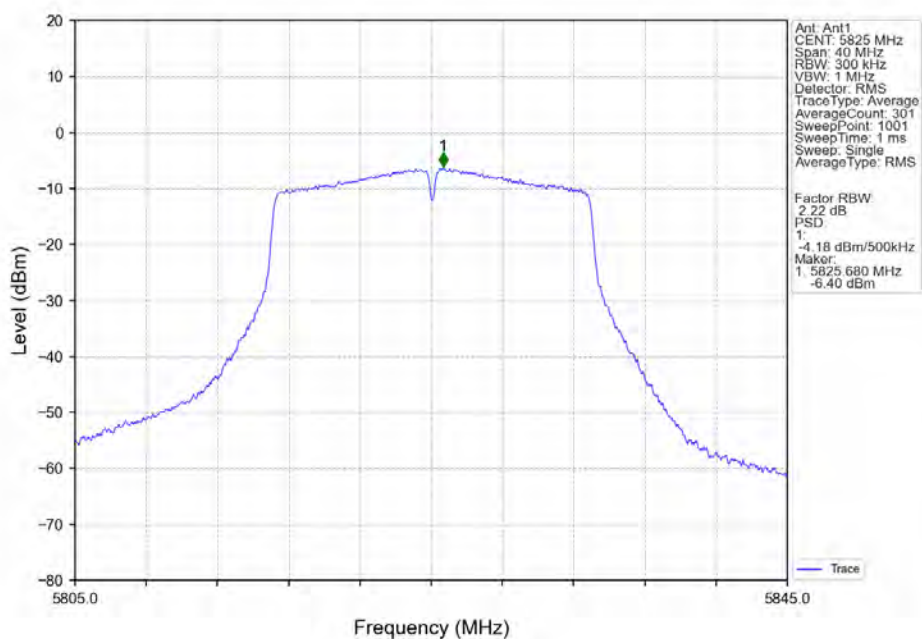
802.11n(HT20) LCH 5745MHz Ant1 NTN



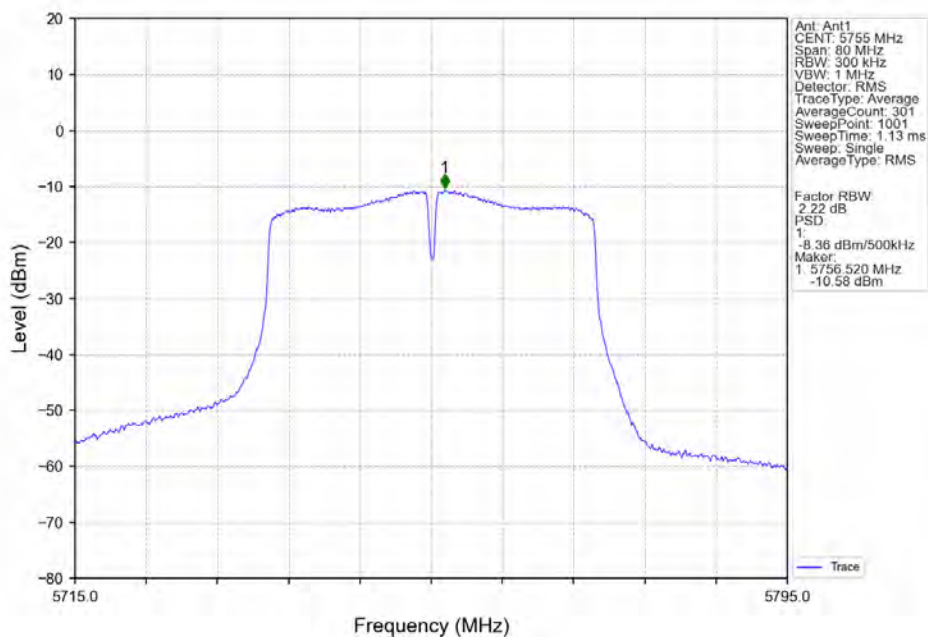
802.11n(HT20) MCH 5785MHz Ant1\_NTNV



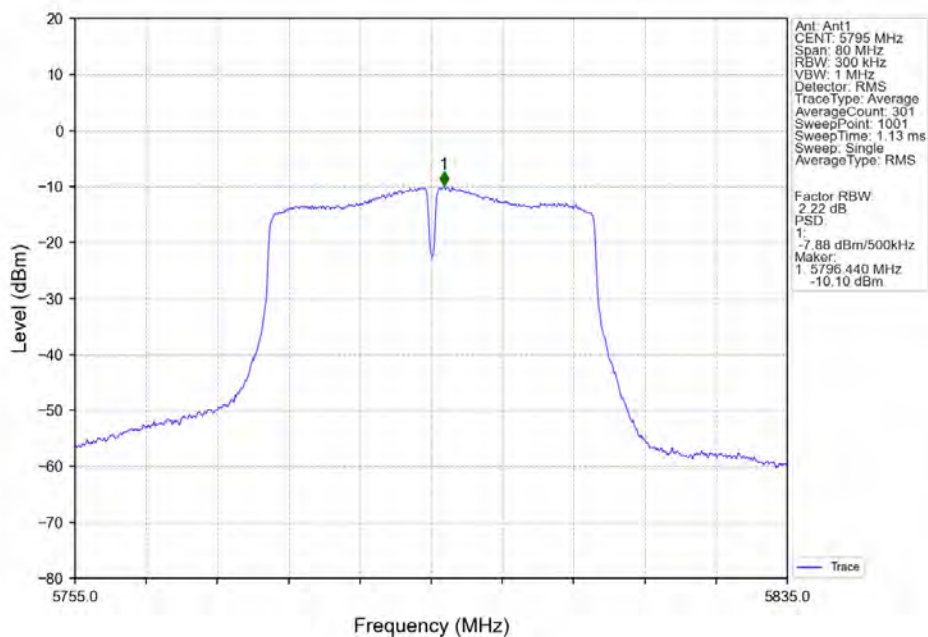
802.11n(HT20) HCH 5825MHz Ant1\_NTNV



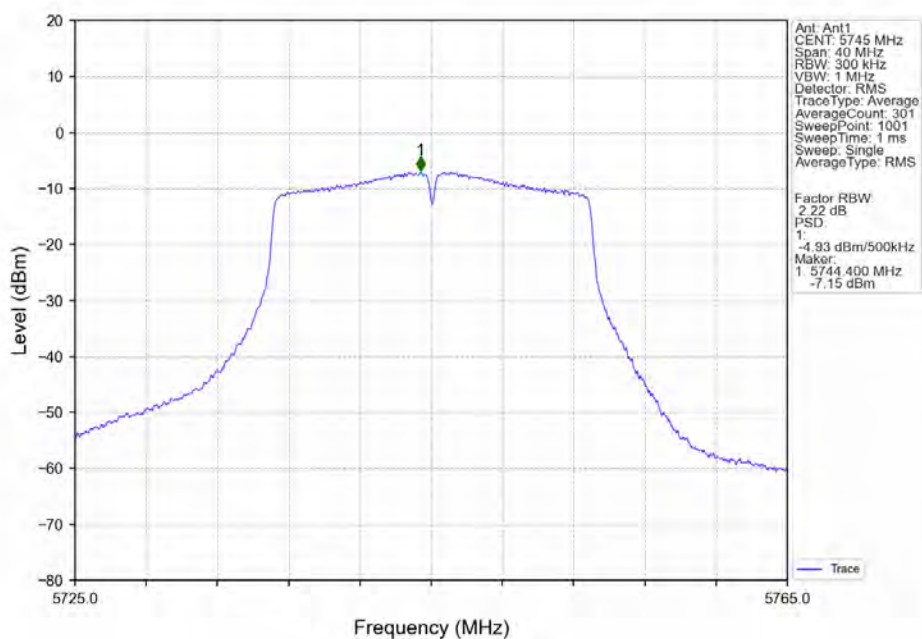
802.11n(HT40) LCH 5755MHz Ant1 NTN



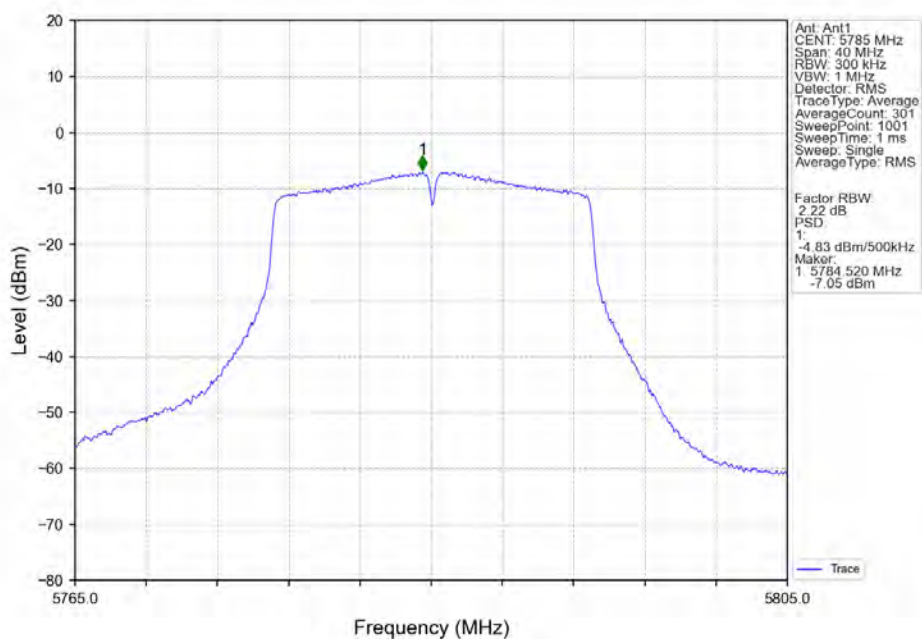
802.11n(HT40) HCH 5795MHz Ant1 NTN



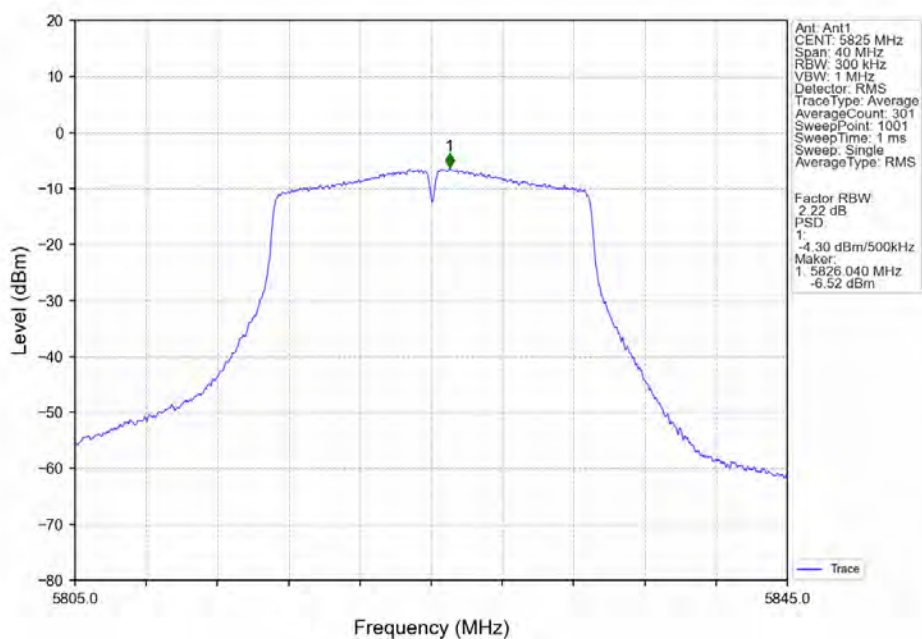
802.11ac(VHT20) LCH 5745MHz Ant1 NTN



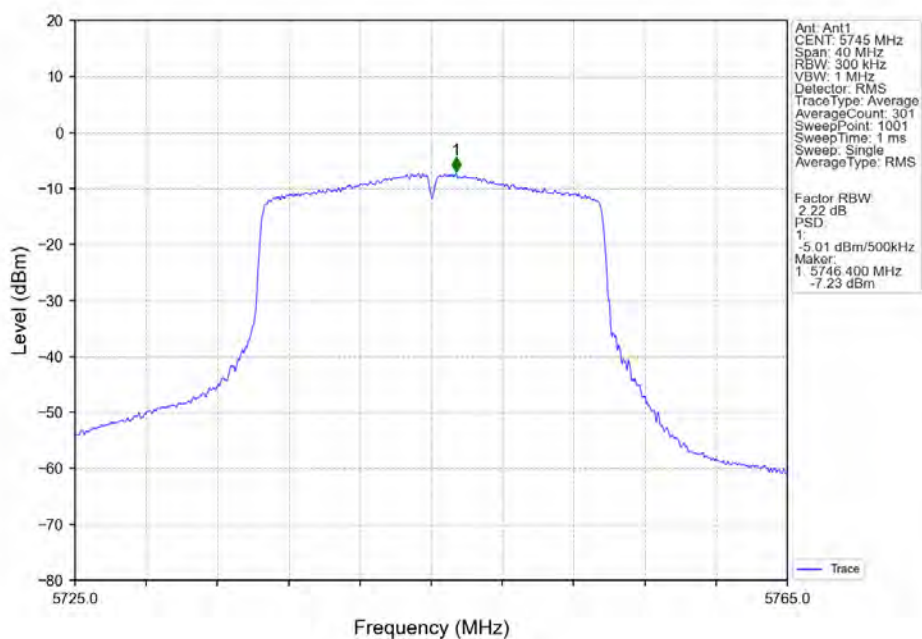
802.11ac(VHT20) MCH 5785MHz Ant1 NTN



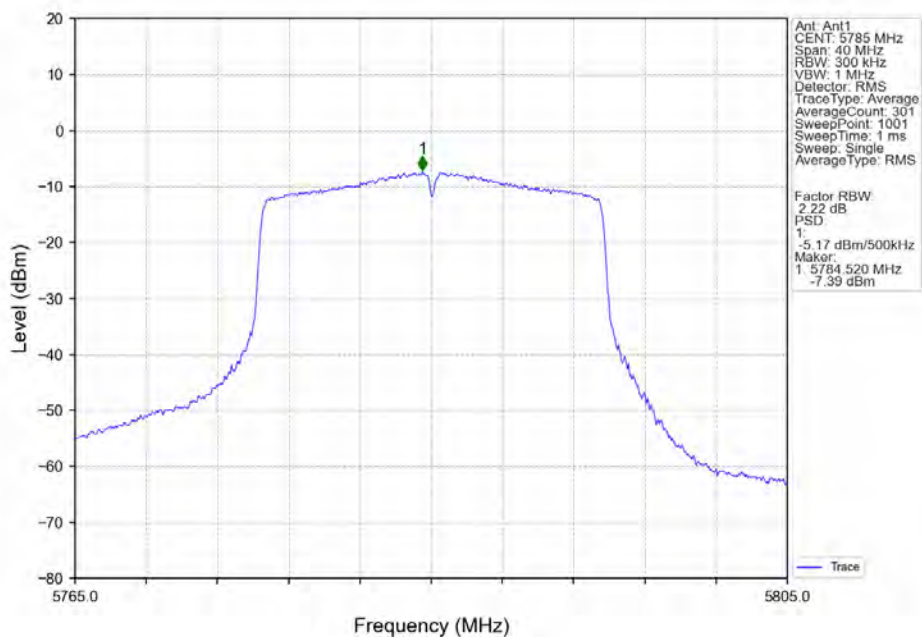
802.11ac(VHT20) HCH 5825MHz Ant1 NTN



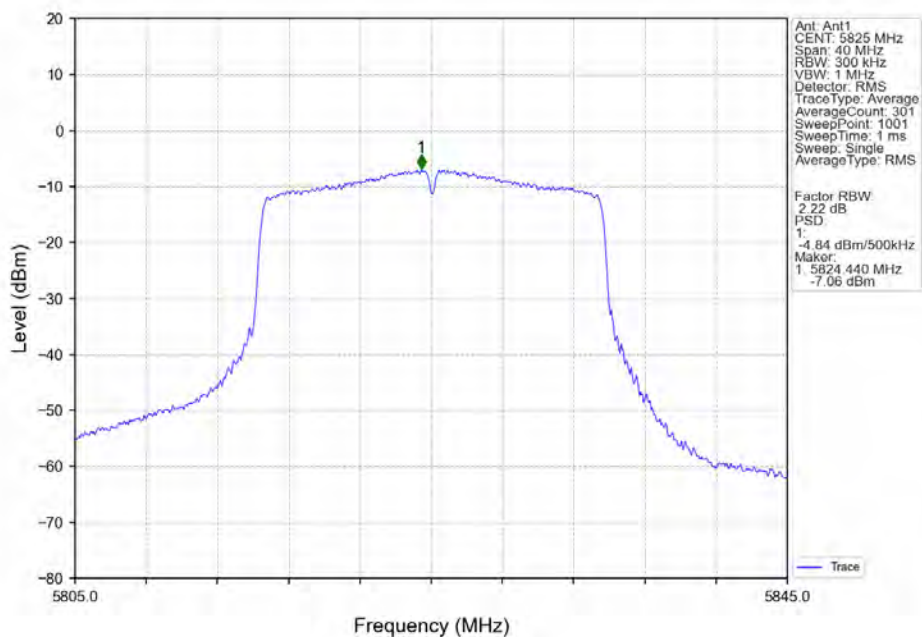
802.11ax(HEW20) LCH 5745MHz SU / Ant1 NTN



802.11ax(HEW20) MCH 5785MHz SU / Ant1 NTN



802.11ax(HEW20) HCH 5825MHz SU / Ant1 NTN



## 5. Unwanted Emissions In Restricted Frequency Bands

### 5.1 Test Result

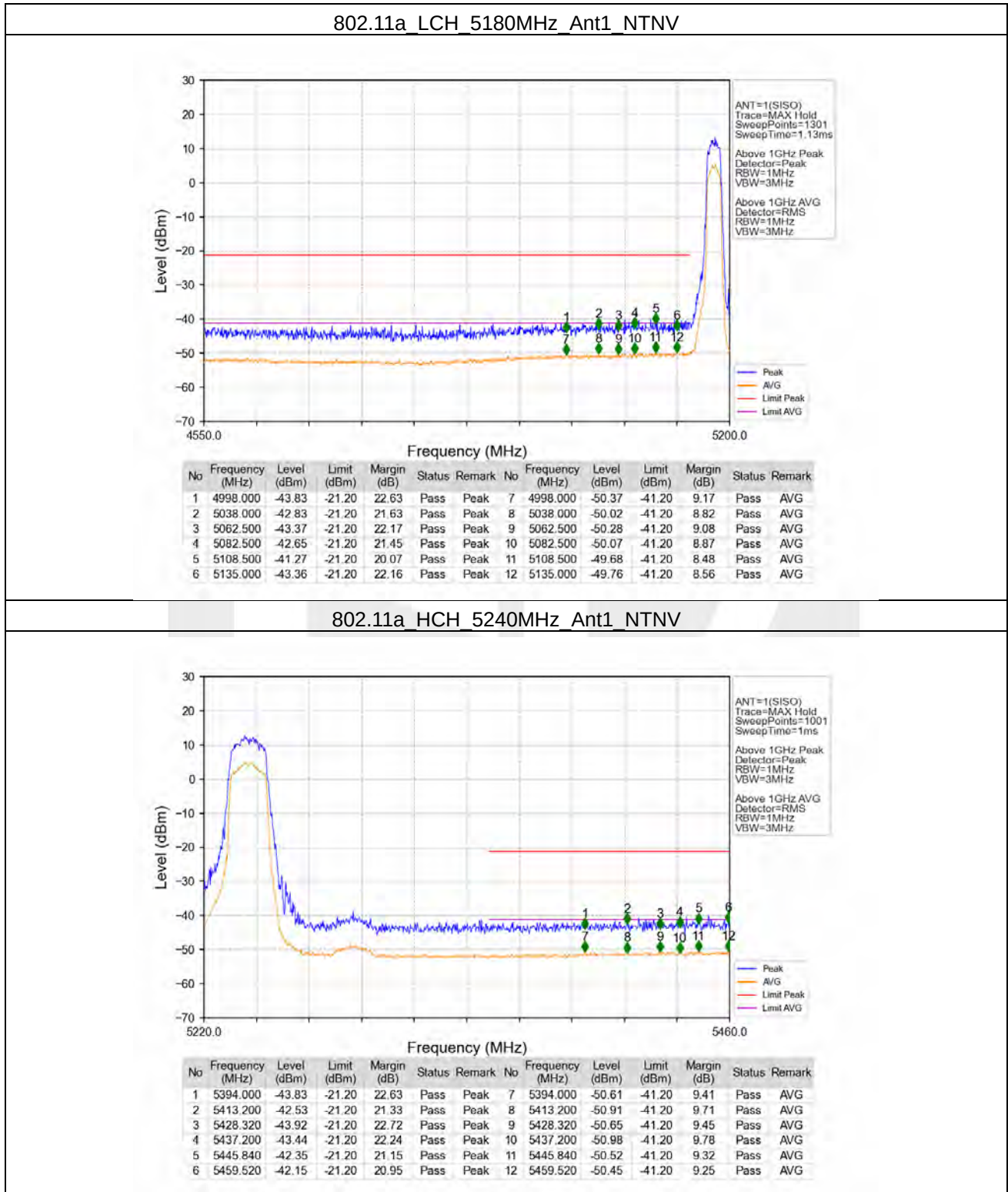
#### 5.1.1 CSE

| Mode             | TX Type | Frequency (MHz) | RU | RU Pos | ANT | Level of Unwanted Emissions (dBm) |       | Verdict |
|------------------|---------|-----------------|----|--------|-----|-----------------------------------|-------|---------|
|                  |         |                 |    |        |     | Result                            | Limit |         |
| 802.11a          | SISO    | 5180            | /  | /      | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5240            | /  | /      | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5745            | /  | /      | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5825            | /  | /      | 1   | Refer To Test Graph               |       | Pass    |
| 802.11n (HT20)   | SISO    | 5180            | /  | /      | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5240            | /  | /      | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5745            | /  | /      | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5825            | /  | /      | 1   | Refer To Test Graph               |       | Pass    |
| 802.11n (HT40)   | SISO    | 5190            | /  | /      | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5230            | /  | /      | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5755            | /  | /      | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5795            | /  | /      | 1   | Refer To Test Graph               |       | Pass    |
| 802.11ac (VHT20) | SISO    | 5180            | /  | /      | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5240            | /  | /      | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5745            | /  | /      | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5825            | /  | /      | 1   | Refer To Test Graph               |       | Pass    |
| 802.11ax (HEW20) | SISO    | 5180            | SU | /      | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5240            | SU | /      | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5745            | SU | /      | 1   | Refer To Test Graph               |       | Pass    |
|                  |         | 5825            | SU | /      | 1   | Refer To Test Graph               |       | Pass    |

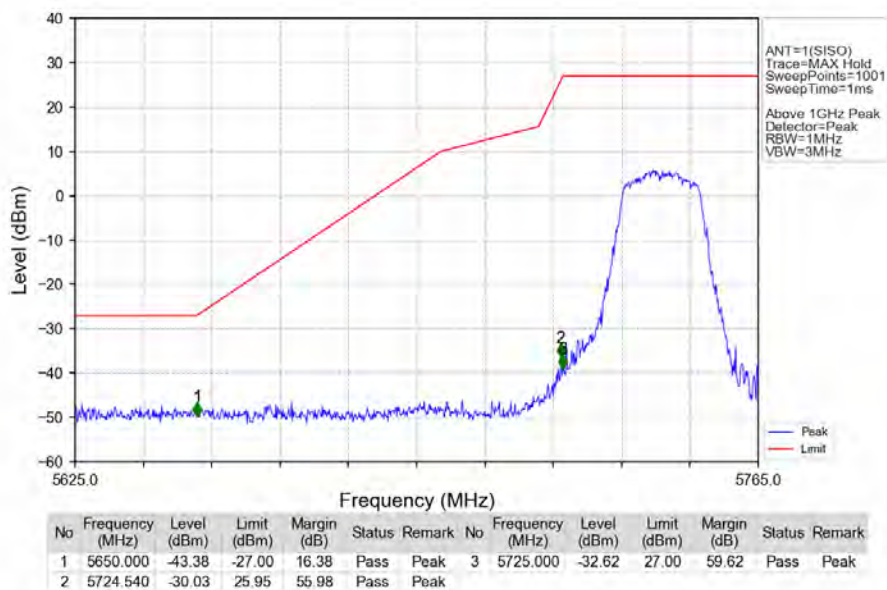
Note:  
1) EIRP[dBm]=E[dBuV/m]- 95.2, for d= 3 m;  
2) Level[dBm] results have calculated the antenna gain;  
3) Antenna gain= U-NII-1: 5150 MHz to 5250 MHz: 6.44 dBi and U-NII-3: 5725 MHz to 5850 MHz: 6.44 dBi

## 5.2 Test Graph

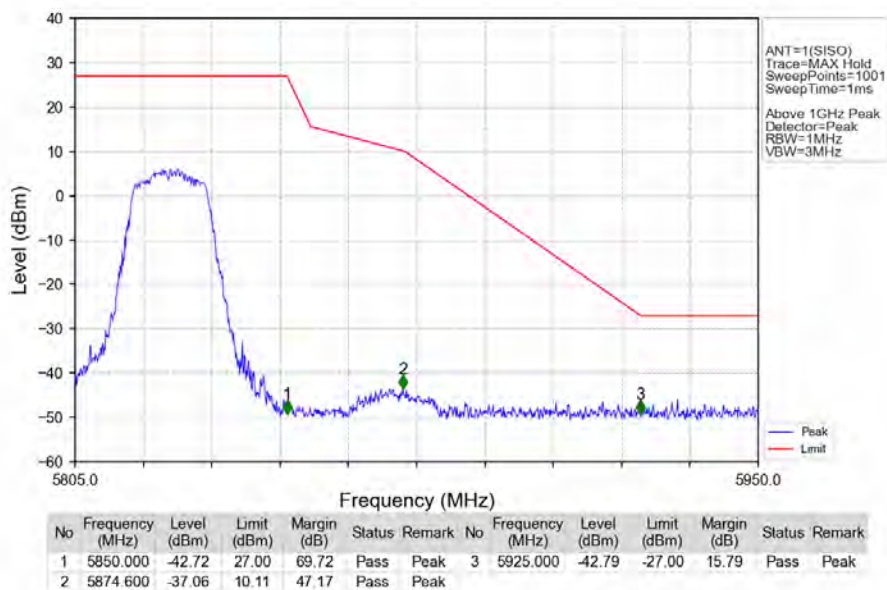
### 5.2.1 CSE



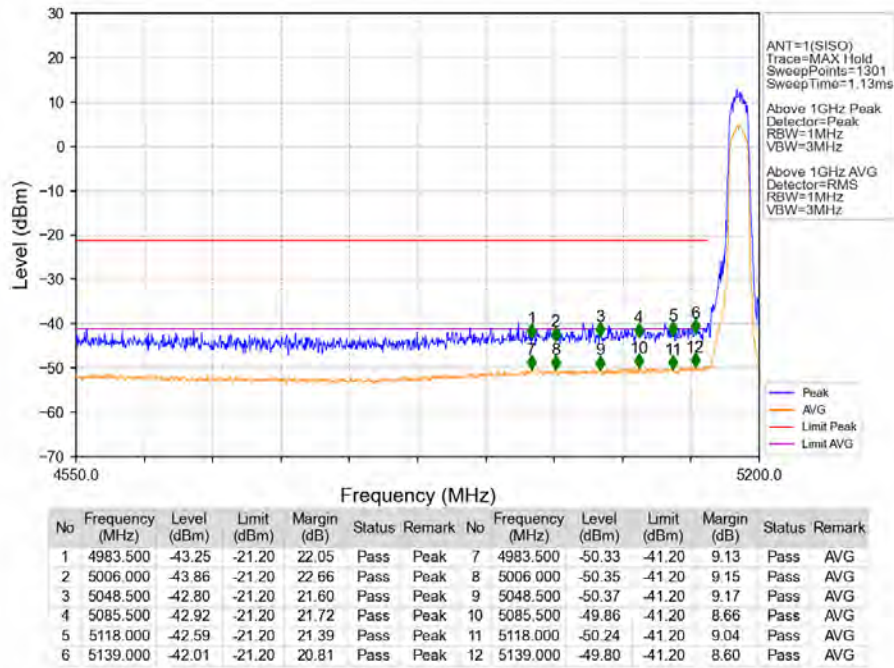
### 802.11a LCH 5745MHz Ant1 NTVN



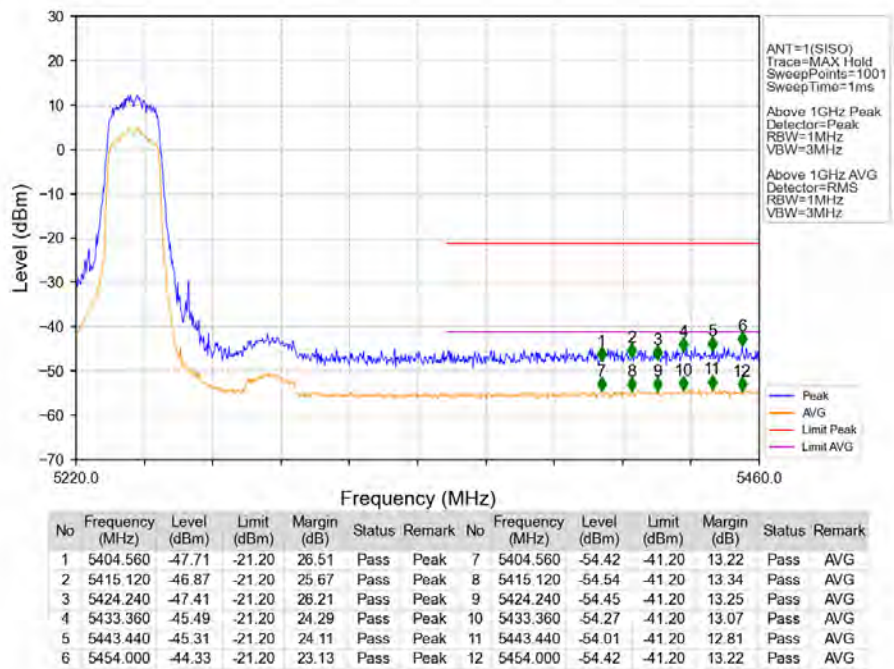
### 802.11a HCH 5825MHz Ant1 NTVN



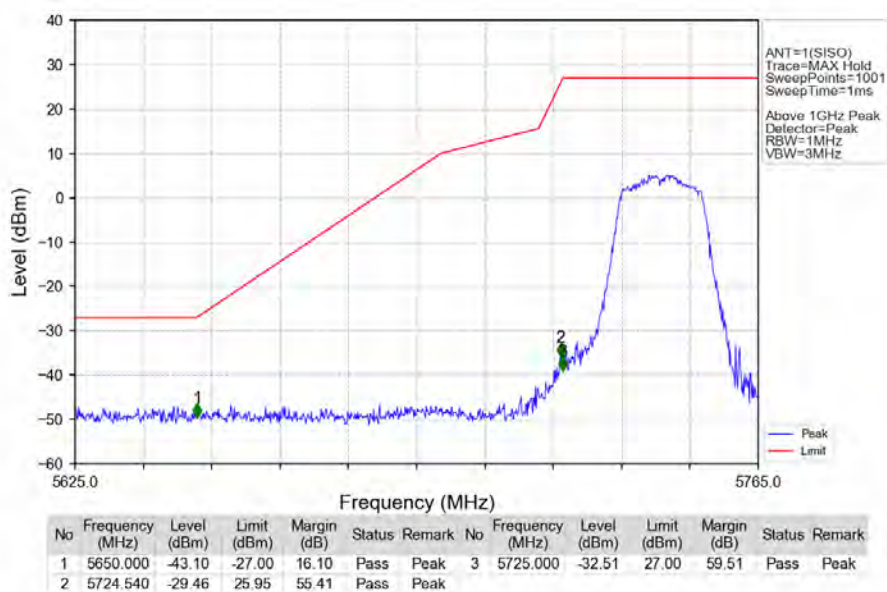
802.11n(HT20) LCH 5180MHz Ant1\_NTNV



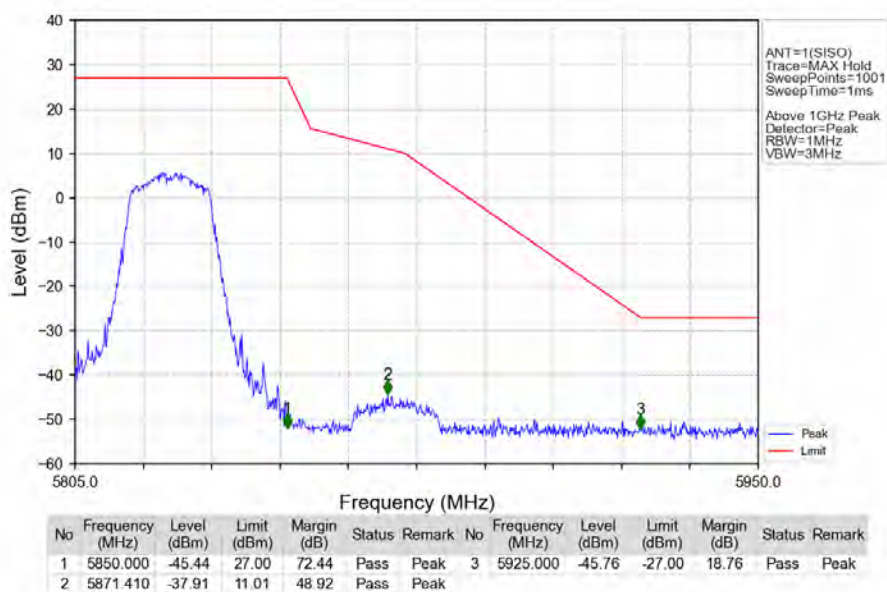
802.11n(HT20) HCH 5240MHz Ant1\_NTNV



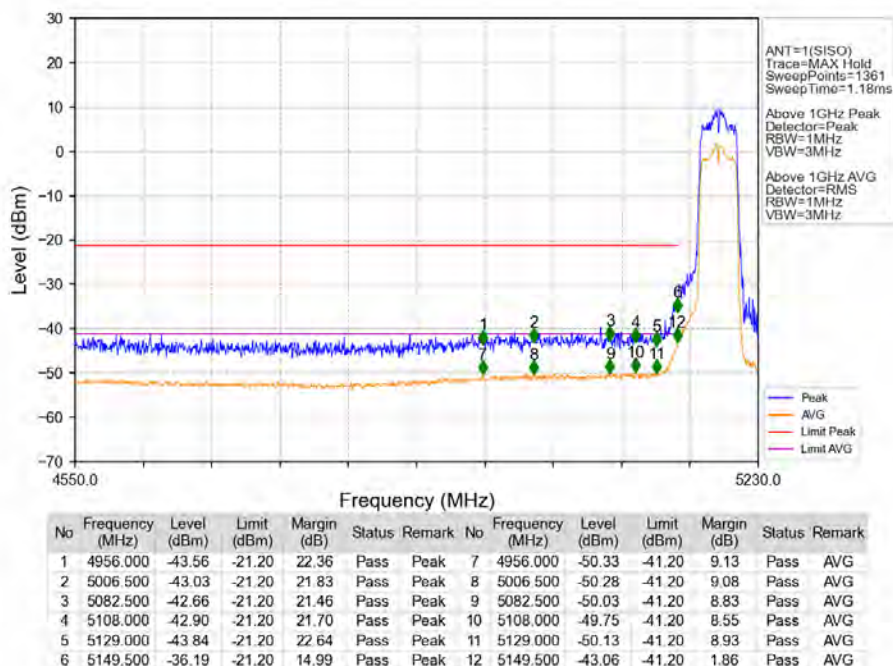
802.11n(HT20) LCH 5745MHz Ant1\_NTNV



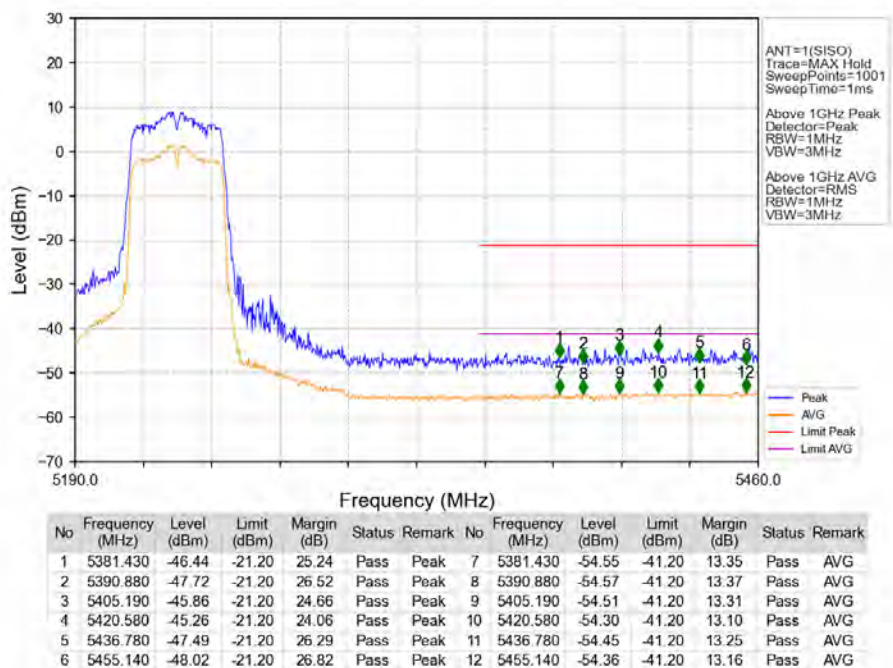
802.11n(HT20) HCH 5825MHz Ant1\_NTNV



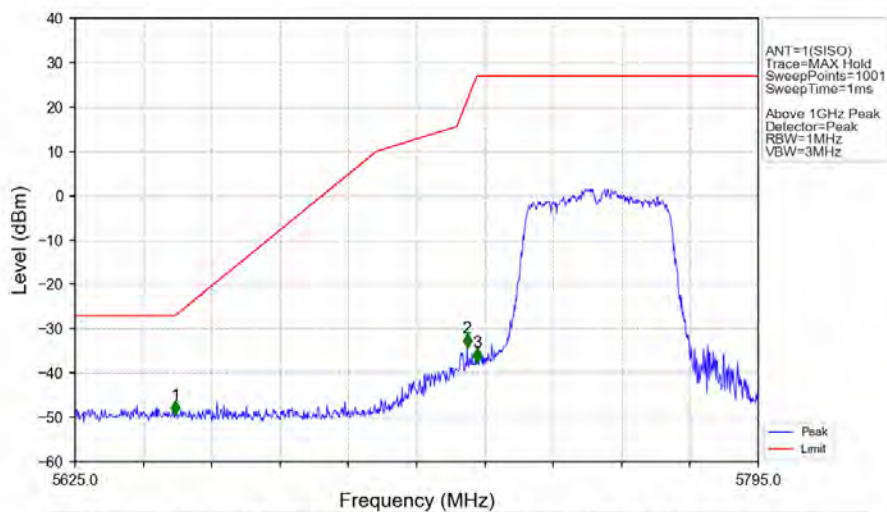
802.11n(HT40) LCH 5190MHz Ant1\_NTNV



802.11n(HT40) HCH 5230MHz Ant1\_NTNV

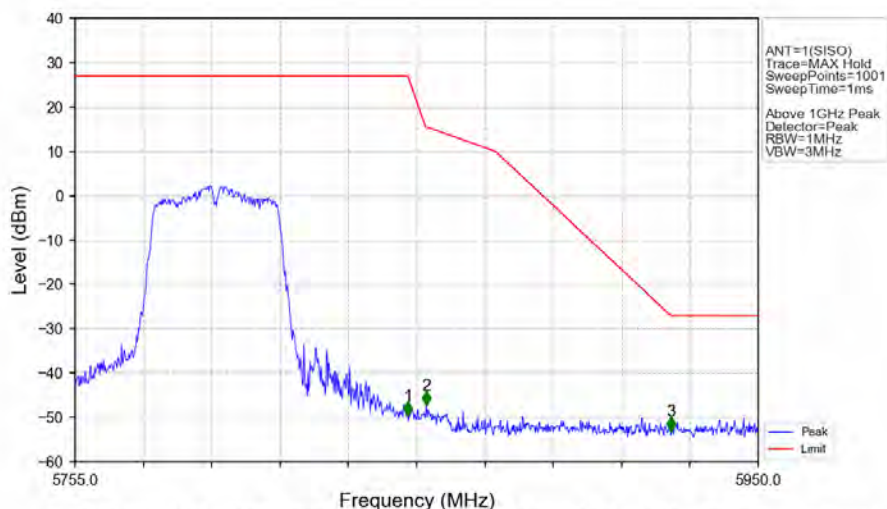


### 802.11n(HT40) LCH 5755MHz Ant1\_NTNV



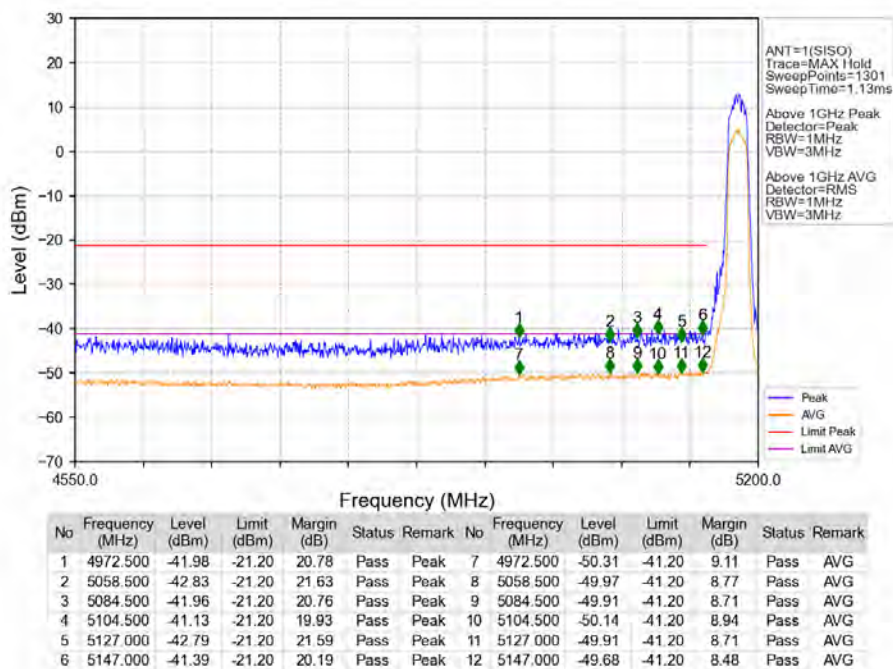
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 5650.000        | -42.90      | -27.00      | 15.90       | Pass   | Peak   | 3  | 5725.000        | -31.10      | 27.00       | 58.10       | Pass   | Peak   |
| 2  | 5722.580        | -27.88      | 21.48       | 49.36       | Pass   | Peak   |    |                 |             |             |             |        |        |

### 802.11n(HT40) HCH 5795MHz Ant1\_NTNV

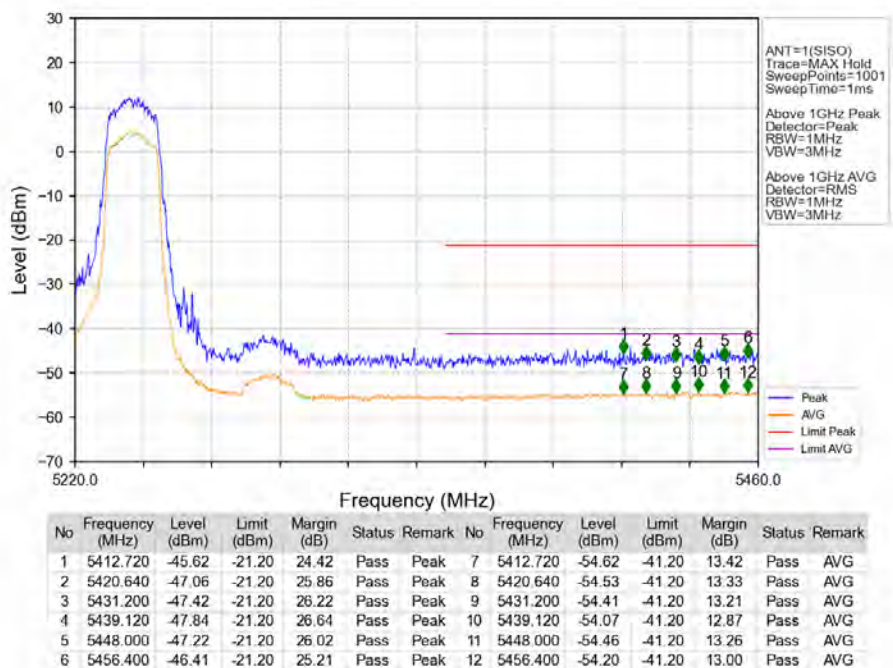


| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 5850.000        | -43.15      | 27.00       | 70.15       | Pass   | Peak   | 3  | 5925.000        | -46.56      | -27.00      | 19.56       | Pass   | Peak   |
| 2  | 5855.230        | -40.68      | 15.54       | 56.22       | Pass   | Peak   |    |                 |             |             |             |        |        |

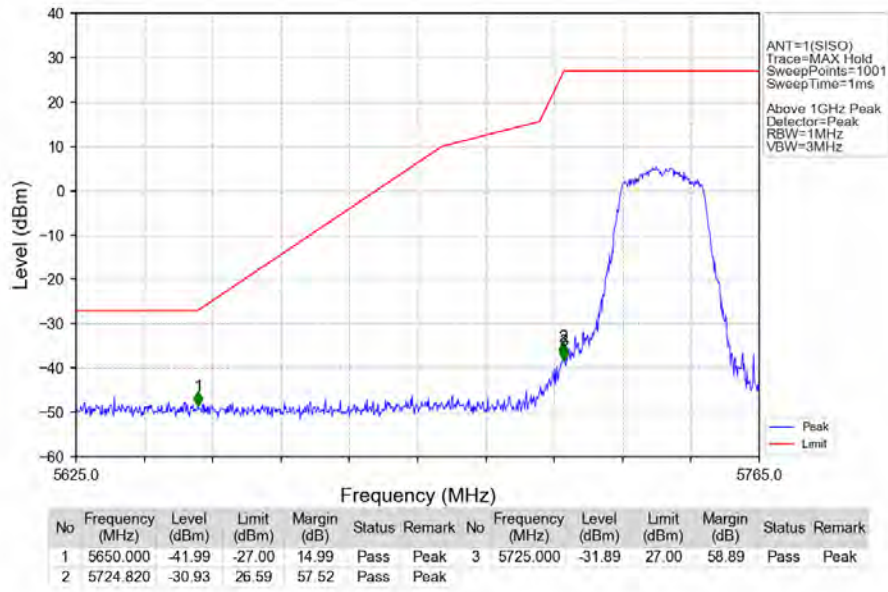
802.11ac(VHT20) LCH 5180MHz Ant1 NTN



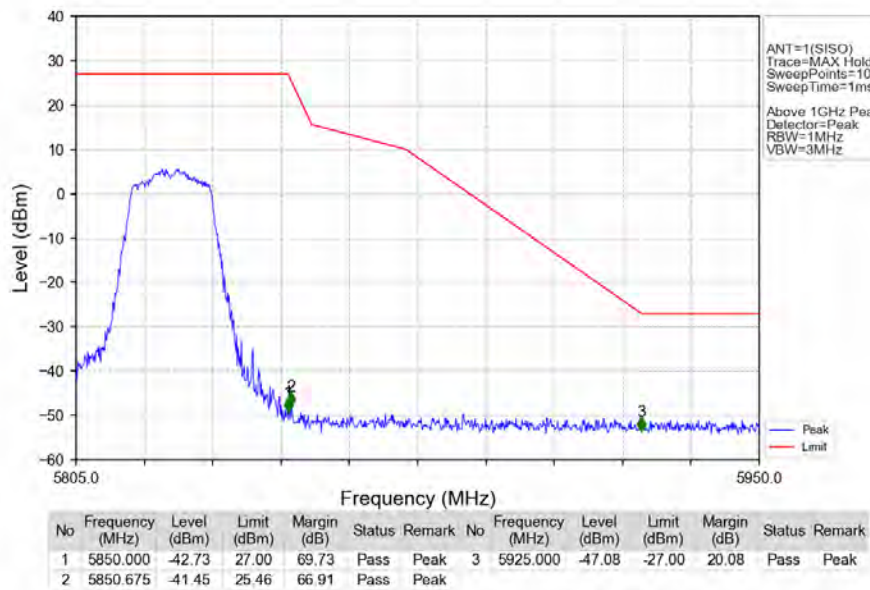
802.11ac(VHT20) HCH 5240MHz Ant1 NTN



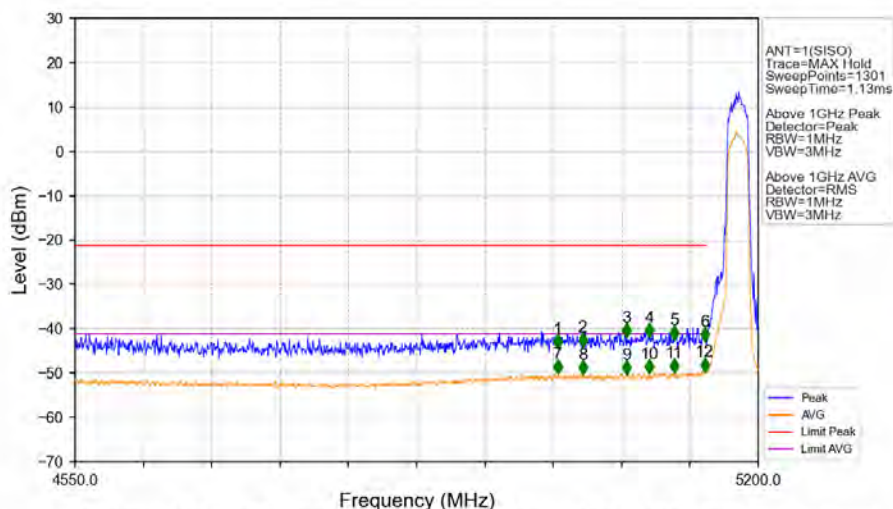
802.11ac(VHT20) LCH 5745MHz Ant1 NTN



802.11ac(VHT20) HCH 5825MHz Ant1 NTN

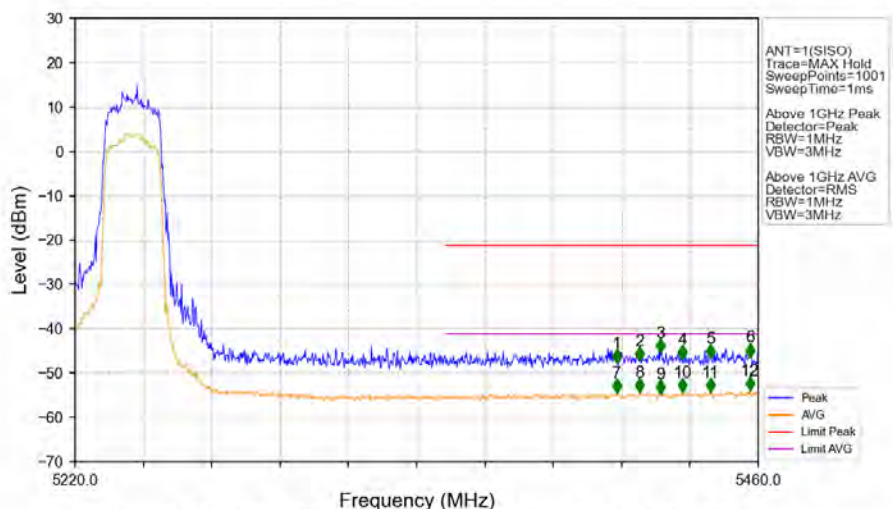


802.11ax(HEW20) LCH 5180MHz SU / Ant1 NTVN



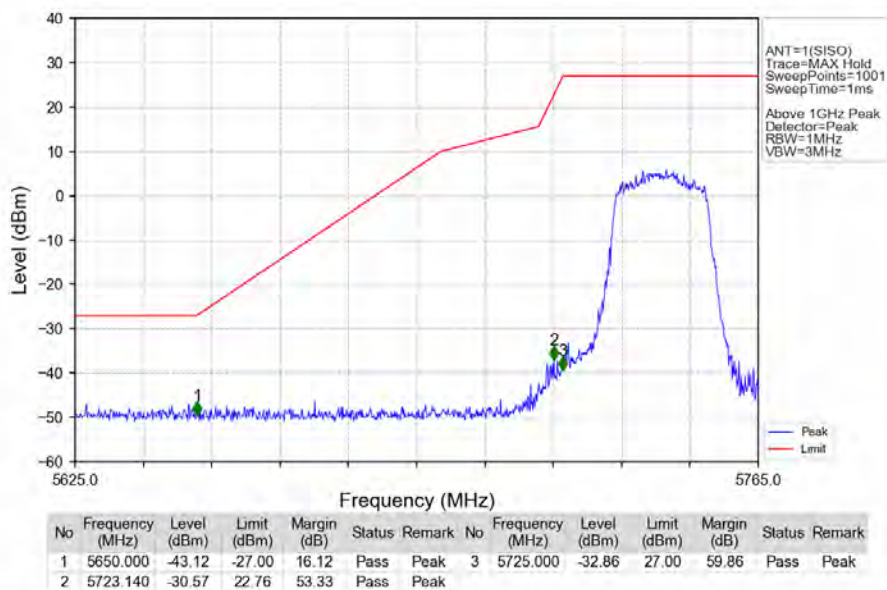
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 5009.500        | -44.44      | -21.20      | 23.24       | Pass   | Peak   | 7  | 5009.500        | -50.12      | -41.20      | 8.92        | Pass   | AVG    |
| 2  | 5033.000        | -44.15      | -21.20      | 22.95       | Pass   | Peak   | 8  | 5033.000        | -50.35      | -41.20      | 9.15        | Pass   | AVG    |
| 3  | 5075.000        | -41.95      | -21.20      | 20.75       | Pass   | Peak   | 9  | 5075.000        | -50.34      | -41.20      | 9.14        | Pass   | AVG    |
| 4  | 5096.500        | -41.96      | -21.20      | 20.76       | Pass   | Peak   | 10 | 5096.500        | -50.09      | -41.20      | 8.89        | Pass   | AVG    |
| 5  | 5120.000        | -42.43      | -21.20      | 21.23       | Pass   | Peak   | 11 | 5120.000        | -49.84      | -41.20      | 8.64        | Pass   | AVG    |
| 6  | 5149.000        | -42.81      | -21.20      | 21.61       | Pass   | Peak   | 12 | 5149.000        | -49.63      | -41.20      | 8.43        | Pass   | AVG    |

802.11ax(HEW20) HCH 5240MHz SU / Ant1 NTVN

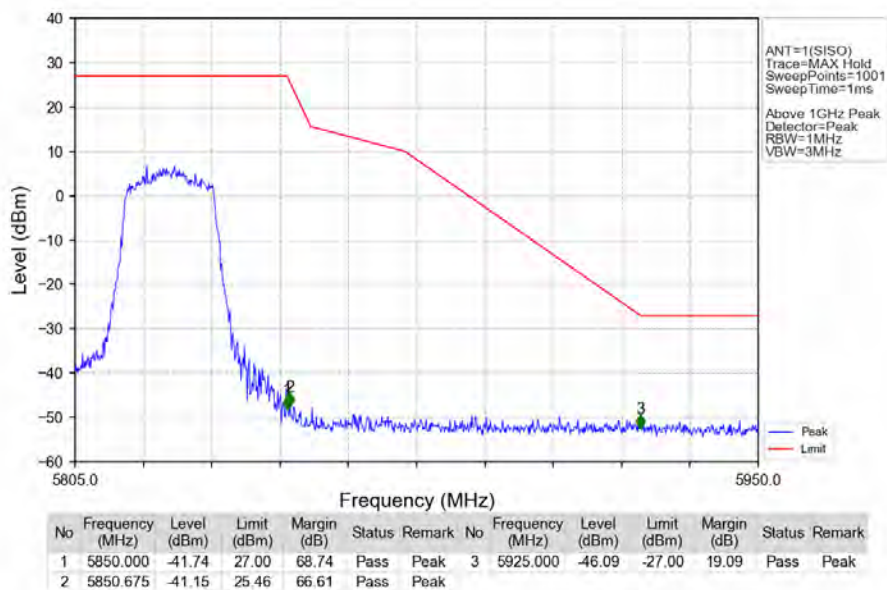


| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 5410.320        | -47.69      | -21.20      | 26.49       | Pass   | Peak   | 7  | 5410.320        | -54.45      | -41.20      | 13.25       | Pass   | AVG    |
| 2  | 5418.240        | -47.20      | -21.20      | 26.00       | Pass   | Peak   | 8  | 5418.240        | -54.37      | -41.20      | 13.17       | Pass   | AVG    |
| 3  | 5425.680        | -45.41      | -21.20      | 24.21       | Pass   | Peak   | 9  | 5425.680        | -54.58      | -41.20      | 13.38       | Pass   | AVG    |
| 4  | 5433.360        | -46.87      | -21.20      | 25.67       | Pass   | Peak   | 10 | 5433.360        | -54.21      | -41.20      | 13.01       | Pass   | AVG    |
| 5  | 5443.200        | -46.63      | -21.20      | 25.43       | Pass   | Peak   | 11 | 5443.200        | -54.25      | -41.20      | 13.05       | Pass   | AVG    |
| 6  | 5457.120        | -46.36      | -21.20      | 25.16       | Pass   | Peak   | 12 | 5457.120        | -53.92      | -41.20      | 12.72       | Pass   | AVG    |

802.11ax(HEW20) LCH 5745MHz SU / Ant1 NTN



802.11ax(HEW20) HCH 5825MHz SU / Ant1 NTN



## 6. Frequency Stability

### 6.1 Test Result

#### 6.1.1 Ant1

| Ant1         |         |                 |                  |         |                          |              |         |
|--------------|---------|-----------------|------------------|---------|--------------------------|--------------|---------|
| Mode         | TX Type | Frequency (MHz) | Temperature (°C) | Voltage | Measured Frequency (MHz) | Limit (MHz)  | Verdict |
| Carrier Wave | SISO    | 5180            | 20               | LV      | 5180.016                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | NV      | 5180.016                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | HV      | 5180.016                 | 5150 to 5250 | Pass    |
|              |         |                 | -30              | NV      | 5180.016                 | 5150 to 5250 | Pass    |
|              |         |                 | -20              | NV      | 5180.016                 | 5150 to 5250 | Pass    |
|              |         |                 | -10              | NV      | 5180.015                 | 5150 to 5250 | Pass    |
|              |         |                 | 0                | NV      | 5180.015                 | 5150 to 5250 | Pass    |
|              |         |                 | 10               | NV      | 5180.015                 | 5150 to 5250 | Pass    |
|              |         |                 | 30               | NV      | 5180.015                 | 5150 to 5250 | Pass    |
|              |         |                 | 40               | NV      | 5180.015                 | 5150 to 5250 | Pass    |
|              |         |                 | 50               | NV      | 5180.015                 | 5150 to 5250 | Pass    |
|              |         | 5200            | 20               | LV      | 5200.015                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | NV      | 5200.015                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | HV      | 5200.015                 | 5150 to 5250 | Pass    |
|              |         |                 | -30              | NV      | 5200.015                 | 5150 to 5250 | Pass    |
|              |         |                 | -20              | NV      | 5200.015                 | 5150 to 5250 | Pass    |
|              |         |                 | -10              | NV      | 5200.015                 | 5150 to 5250 | Pass    |
|              |         |                 | 0                | NV      | 5200.015                 | 5150 to 5250 | Pass    |
|              |         |                 | 10               | NV      | 5200.015                 | 5150 to 5250 | Pass    |
|              |         |                 | 30               | NV      | 5200.015                 | 5150 to 5250 | Pass    |
|              |         |                 | 40               | NV      | 5200.015                 | 5150 to 5250 | Pass    |
|              |         |                 | 50               | NV      | 5200.015                 | 5150 to 5250 | Pass    |
|              |         | 5240            | 20               | LV      | 5240.015                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | NV      | 5240.015                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | HV      | 5240.015                 | 5150 to 5250 | Pass    |
|              |         |                 | -30              | NV      | 5240.015                 | 5150 to 5250 | Pass    |
|              |         |                 | -20              | NV      | 5240.015                 | 5150 to 5250 | Pass    |
|              |         |                 | -10              | NV      | 5240.015                 | 5150 to 5250 | Pass    |
|              |         |                 | 0                | NV      | 5240.015                 | 5150 to 5250 | Pass    |
|              |         |                 | 10               | NV      | 5240.015                 | 5150 to 5250 | Pass    |
|              |         |                 | 30               | NV      | 5240.015                 | 5150 to 5250 | Pass    |
|              |         |                 | 40               | NV      | 5240.015                 | 5150 to 5250 | Pass    |
|              |         |                 | 50               | NV      | 5240.015                 | 5150 to 5250 | Pass    |
|              |         | 5745            | 20               | LV      | 5745.019                 | 5725 to 5850 | Pass    |

|  |  |      |     |    |          |              |      |
|--|--|------|-----|----|----------|--------------|------|
|  |  |      |     | NV | 5745.018 | 5725 to 5850 | Pass |
|  |  |      |     | HV | 5745.018 | 5725 to 5850 | Pass |
|  |  |      | -30 | NV | 5745.017 | 5725 to 5850 | Pass |
|  |  |      | -20 | NV | 5745.017 | 5725 to 5850 | Pass |
|  |  |      | -10 | NV | 5745.017 | 5725 to 5850 | Pass |
|  |  |      | 0   | NV | 5745.017 | 5725 to 5850 | Pass |
|  |  |      | 10  | NV | 5745.017 | 5725 to 5850 | Pass |
|  |  |      | 30  | NV | 5745.017 | 5725 to 5850 | Pass |
|  |  |      | 40  | NV | 5745.017 | 5725 to 5850 | Pass |
|  |  |      | 50  | NV | 5745.017 | 5725 to 5850 | Pass |
|  |  | 5785 | 20  | LV | 5785.020 | 5725 to 5850 | Pass |
|  |  |      |     | NV | 5785.019 | 5725 to 5850 | Pass |
|  |  |      |     | HV | 5785.019 | 5725 to 5850 | Pass |
|  |  |      | -30 | NV | 5785.019 | 5725 to 5850 | Pass |
|  |  |      | -20 | NV | 5785.019 | 5725 to 5850 | Pass |
|  |  |      | -10 | NV | 5785.019 | 5725 to 5850 | Pass |
|  |  |      | 0   | NV | 5785.019 | 5725 to 5850 | Pass |
|  |  |      | 10  | NV | 5785.019 | 5725 to 5850 | Pass |
|  |  |      | 30  | NV | 5785.019 | 5725 to 5850 | Pass |
|  |  |      | 40  | NV | 5785.019 | 5725 to 5850 | Pass |
|  |  |      | 50  | NV | 5785.019 | 5725 to 5850 | Pass |
|  |  | 5825 | 20  | LV | 5825.021 | 5725 to 5850 | Pass |
|  |  |      |     | NV | 5825.020 | 5725 to 5850 | Pass |
|  |  |      |     | HV | 5825.019 | 5725 to 5850 | Pass |
|  |  |      | -30 | NV | 5825.020 | 5725 to 5850 | Pass |
|  |  |      | -20 | NV | 5825.019 | 5725 to 5850 | Pass |
|  |  |      | -10 | NV | 5825.019 | 5725 to 5850 | Pass |
|  |  |      | 0   | NV | 5825.019 | 5725 to 5850 | Pass |
|  |  |      | 10  | NV | 5825.019 | 5725 to 5850 | Pass |
|  |  |      | 30  | NV | 5825.020 | 5725 to 5850 | Pass |
|  |  |      | 40  | NV | 5825.019 | 5725 to 5850 | Pass |
|  |  |      | 50  | NV | 5825.019 | 5725 to 5850 | Pass |
|  |  | 5190 | 20  | LV | 5190.018 | 5150 to 5250 | Pass |
|  |  |      |     | NV | 5190.018 | 5150 to 5250 | Pass |
|  |  |      |     | HV | 5190.018 | 5150 to 5250 | Pass |
|  |  |      | -30 | NV | 5190.017 | 5150 to 5250 | Pass |
|  |  |      | -20 | NV | 5190.017 | 5150 to 5250 | Pass |
|  |  |      | -10 | NV | 5190.018 | 5150 to 5250 | Pass |
|  |  |      | 0   | NV | 5190.017 | 5150 to 5250 | Pass |
|  |  |      | 10  | NV | 5190.017 | 5150 to 5250 | Pass |
|  |  |      | 30  | NV | 5190.017 | 5150 to 5250 | Pass |
|  |  |      | 40  | NV | 5190.017 | 5150 to 5250 | Pass |
|  |  |      | 50  | NV | 5190.017 | 5150 to 5250 | Pass |
|  |  | 5230 | 20  | LV | 5230.018 | 5150 to 5250 | Pass |

|  |  |      |     |    |          |              |      |
|--|--|------|-----|----|----------|--------------|------|
|  |  |      |     | NV | 5230.018 | 5150 to 5250 | Pass |
|  |  |      |     | HV | 5230.018 | 5150 to 5250 | Pass |
|  |  |      | -30 | NV | 5230.018 | 5150 to 5250 | Pass |
|  |  |      | -20 | NV | 5230.017 | 5150 to 5250 | Pass |
|  |  |      | -10 | NV | 5230.017 | 5150 to 5250 | Pass |
|  |  |      | 0   | NV | 5230.017 | 5150 to 5250 | Pass |
|  |  |      | 10  | NV | 5230.017 | 5150 to 5250 | Pass |
|  |  |      | 30  | NV | 5230.017 | 5150 to 5250 | Pass |
|  |  |      | 40  | NV | 5230.017 | 5150 to 5250 | Pass |
|  |  |      | 50  | NV | 5230.017 | 5150 to 5250 | Pass |
|  |  | 5755 | 20  | LV | 5755.020 | 5725 to 5850 | Pass |
|  |  |      |     | NV | 5755.019 | 5725 to 5850 | Pass |
|  |  |      |     | HV | 5755.019 | 5725 to 5850 | Pass |
|  |  |      | -30 | NV | 5755.018 | 5725 to 5850 | Pass |
|  |  |      | -20 | NV | 5755.018 | 5725 to 5850 | Pass |
|  |  |      | -10 | NV | 5755.018 | 5725 to 5850 | Pass |
|  |  |      | 0   | NV | 5755.018 | 5725 to 5850 | Pass |
|  |  |      | 10  | NV | 5755.018 | 5725 to 5850 | Pass |
|  |  |      | 30  | NV | 5755.018 | 5725 to 5850 | Pass |
|  |  |      | 40  | NV | 5755.018 | 5725 to 5850 | Pass |
|  |  |      | 50  | NV | 5755.018 | 5725 to 5850 | Pass |
|  |  | 5795 | 20  | LV | 5795.021 | 5725 to 5850 | Pass |
|  |  |      |     | NV | 5795.020 | 5725 to 5850 | Pass |
|  |  |      |     | HV | 5795.019 | 5725 to 5850 | Pass |
|  |  |      | -30 | NV | 5795.019 | 5725 to 5850 | Pass |
|  |  |      | -20 | NV | 5795.019 | 5725 to 5850 | Pass |
|  |  |      | -10 | NV | 5795.019 | 5725 to 5850 | Pass |
|  |  |      | 0   | NV | 5795.019 | 5725 to 5850 | Pass |
|  |  |      | 10  | NV | 5795.018 | 5725 to 5850 | Pass |
|  |  |      | 30  | NV | 5795.018 | 5725 to 5850 | Pass |
|  |  |      | 40  | NV | 5795.018 | 5725 to 5850 | Pass |
|  |  |      | 50  | NV | 5795.018 | 5725 to 5850 | Pass |

## STATEMENT

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.
3. For the report with CNAS mark or A2LA mark, the items marked with "☆" are not within the accredited scope.
4. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the "inspection and testing dedicated stamp" or test report stamp.
5. The test data and results are only valid for the tested samples provided by the customer.
6. This report shall not be partially reproduced without the written permission of the laboratory.
7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

--- End of Report ---