



# TEST REPORT

**Report Number:** R14176139-E5cV2

**Applicant :** Sony Corporation  
1-7-1 Konan Minato-ku  
Tokyo, 108-0076, Japan

**FCC ID :** PY7-83262V

**EUT Description :** GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac/ax, GPS, WPT & NFC

**Test Standard(s) :** FCC 47 CFR PART 15 SUBPART E

**Date Of Issue:**  
2022-03-25

**Prepared by:**  
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## REPORT REVISION HISTORY

| Rev. | Issue Date | Revisions  | Revised By |
|------|------------|--|------------|
| V1   | 2022-03-16 | Initial Issue  | B. Kiewra  |
| V2   | 2022-03-25 | Harmonized all antenna descriptors to read as chain 0 and chain 1. | B. Kiewra  |

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# 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** Sony Corporation  
1-7-1 Konan Minato-ku  
Tokyo, 108-0076, Japan

**EUT DESCRIPTION:** GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac/ax, GPS, WPT & NFC

**SERIAL NUMBER:** QV77002ZAQ, QV770028AQ, QV770019B8, QV77007QB8, QV77003RB8, QV770058B8

**SAMPLE RECEIPT DATE:** 2022-01-13

**DATE TESTED:** 2022-02-16 to 2022-03-16

| APPLICABLE STANDARDS     |                    |
|--------------------------|--------------------|
| STANDARD                 | TEST RESULTS       |
| CFR 47 Part 15 Subpart E | Refer to Section 2 |

UL LLC tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by a2La, NIST, or any agency of the U.S. government.

Approved & Released  
For UL LLC By:

Prepared By:



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Consumer Technology Division  
UL LLC



Brian Kiewra  
Project Engineer  
Consumer Technology Division  
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## 2. TEST RESULT SUMMARY

This report contains data provided by the applicant which can impact the validity of results. UL LLC is only responsible for the validity of results after the integration of the data provided by the customer.

| FCC Clause                     | Requirement                  | Result                  | Comment   |
|--------------------------------|------------------------------|-------------------------|---|
| See Comment                    | Duty Cycle                   | Reporting purposes only | Per ANSI C63.10, Section 12.2.                    |
| See Comment                    | 26dB BW                      |                         | Per ANSI C63.10 Section 6.9.2                     |
| 15.407 (a) (2), (h) (1)        | Output Power                 | Compliant               | None  |
| 15.407 (a) (2)                 | PSD                          |                         |   |
| 15.209, 15.205, 15.407 (b) (3) | Radiated Emissions           |                         |   |
| 15.207                         | AC Mains Conducted Emissions | See comment             | Results report in UL test report R14176139-E5fV1. |

## 3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with;

- FCC CFR 47 Part 2
- FCC CFR 47 Part 15,
- FCC KDB 662911 D01 v02r01,
- FCC KDB 789033 D02 v02r01,
- KDB 414788 D01 Radiated Test Site v01r01
- ANSI C63.10-2013

## 4. FACILITIES AND ACCREDITATION

UL LLC is accredited by A2LA, certification # 0751.06, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

|                                     | Address  | ISED CABID | ISED Company Number | FCC Registration |
|-------------------------------------|--|------------|---------------------|------------------|
| <input type="checkbox"/>            | Building:<br>12 Laboratory Dr<br>RTP, NC 27709, U.S.A                        | US0067     | 2180C               | 825374           |
| <input checked="" type="checkbox"/> | Building:<br>2800 Perimeter Park Dr. Suite B<br>Morrisville, NC 27560, U.S.A |            | 27265               |                  |

## 5. DECISION RULES AND MEASUREMENT UNCERTAINTY

### 5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

### 5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

### 5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| PARAMETER                                | U <sub>Lab</sub>            |
|--|-----------------------------|
| Radio Frequency (Spectrum Analyzer)      | 141.2 Hz                    |
| Occupied Channel Bandwidth               | 1.22%                       |
| RF output power, conducted               | 1.3 dB (PK)<br>0.45 dB (AV) |
| Power Spectral Density, conducted        | 2.47 dB                     |
| Unwanted Emissions, conducted            | 1.94 dB                     |
| All emissions, radiated                  | 6.01 dB                     |
| Conducted Emissions (0.150-30MHz) - LISN | 3.40 dB                     |
| Temperature                              | 0.57°C                      |
| Humidity                                 | 3.39%                       |
| DC Supply voltages                       | 1.70%                       |

Uncertainty figures are valid to a confidence level of 95%.

### 5.4. SAMPLE CALCULATION

#### RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)

$$36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$$

#### MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.

$$36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} = 46.6 \text{ dBuV}$$

## 6. EQUIPMENT UNDER TEST

### 6.1. EUT DESCRIPTION

The EUT is a GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac/ax, GPS, WPT & NFC. This test report covers 5.6 UNII Band non-802.11ax mode testing

### 6.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

| Frequency Range (MHz)    | Mode            | Output Power (dBm) | Output Power (mW) |
|--------------------------|-----------------|--------------------|-------------------|
| <b>5.6 GHz band, 2TX</b> |                 |                    |                   |
| 5500-5720                | 802.11a         | 13.56              | 22.70             |
| 5500-5720                | 802.11n HT20    | 13.51              | 22.44             |
| 5510-5710                | 802.11n HT40    | 13.58              | 22.80             |
| 5530-5690                | 802.11ac VHT80  | 13.34              | 21.58             |
| 5570                     | 802.11ac VHT160 | 13.20              | 20.89             |

### 6.3. DESCRIPTION OF AVAILABLE ANTENNAS

The antenna(s) gain and type, as provided by the manufacturer' are as follows:  
 The radio utilizes two loop antennas, with the following maximum gains:

| Chain | Frequency Range (MHz) | Maximum Gain (dBi) |
|-------|-----------------------|--------------------|
| 0     | 5500-5720             | -1                 |
| 1     | 5500-5720             | -7.6               |

|         | Theory of Operation    | Antenna                | Manufacturer Tolerance | Block Diagram          |
|---------|------------------------|------------------------|------------------------|------------------------|
| Chain 0 | WLAN Main/Bluetooth #1 | WLAN Main/Bluetooth #1 | Chain 0                | WLAN Main/Bluetooth #1 |
| Chain 1 | WLAN Sub/Bluetooth #2  | WLAN Sub/Bluetooth #2  | Chain 1                | WLAN Sub/Bluetooth #2  |

### 6.4. SOFTWARE AND FIRMWARE

The EUT software installed during testing was conducted: 0.364 and radiated: 0.428.

### 6.5. WORST-CASE CONFIGURATION AND MODE

The fundamental of the EUT was investigated in three orthogonal orientations X,Y,Z, it was determined that Z orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in Z orientation.



Band edge was performed with the EUT set to transmit on low and high channels. Radiated spurious and harmonic emissions between 1GHz and 18GHz were performed with the EUT set to transmit at the worst-case mode/channel based on power and PSD and can be found in report R14176139-E5dV2.

Radiated emissions below 1GHz, above 18GHz, and power line conducted emission were performed with the EUT set to transmit at the channel/mode with highest output power/PSD as worst-case scenario and can be found in report R14176139-E5fV2.

Worst-case data rates as provided by the client were:

- 802.11a mode: 6 Mbps
- 802.11n HT20mode: MCS0
- 802.11n HT40mode: MCS0
- 802.11ac VHT80 mode: MCS0 (Nss = 1)
- 802.11ac VHT160 mode: MCS0 (Nss = 1)

All testing performed in 2Tx mode (NSS=1), where power per chain is equivalent to the 1Tx power on each chain. This allows 2Tx testing to cover all 1Tx testing.

## 6.6. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

| Support Equipment List |              |                     |               |               |
|------------------------|--------------|---------------------|---------------|---------------|
| Description            | Manufacturer | Model               | Serial Number | FCC ID        |
| Laptop                 | HP           | 14-dk1003dx         | 5CG016B4XM    | TX2-RTL8821CE |
| Headphones             | Sony         | MDR-EX15AP          | NA            | NA            |
| Adapter                | Sony         | XQZ-UC11-010-236-21 | 1821W34209742 | NA            |
| Adapter                | Sony         | XQZ-UC11-010-236-21 | 1821W34209856 | NA            |
| USB Cable              | Sony         | XQZ-UC1             | NA            | NA            |

### I/O CABLES

| I/O Cable List |       |                      |                |              |                  |                           |
|----------------|-------|----------------------|----------------|--------------|------------------|---------------------------|
| Cable No.      | Port  | # of Identical Ports | Connector Type | Cable Type   | Cable Length (m) | Remarks                   |
| 1              | USB   | 1                    | USB-C          | Non-Shielded | <3m              | Connected to power supply |
| 2              | 3.5mm | 1                    | 3.5mm Audio    | Non-shielded | <1m              | Connected to headphones   |

### TEST SETUP

The EUT is setup as a standalone device. Test software exercised the radio card.

### SETUP DIAGRAMS

Please refer to R14176139-EP2 for setup diagrams

## 7. MEASUREMENT METHOD

On Time and Duty Cycle: KDB 789033 D02 v02r01, Section B.

26 dB Emission BW: KDB 789033 D02 v02r01, Section C.1

Conducted Output Power: KDB 789033 D02 v02r01, Section E.3.b (Method PM-G)

Power Spectral Density: KDB 789033 D02 v02r01, Section F

Unwanted emissions in restricted bands: KDB 789033 D02 v02r01, Sections G.3, G.5, and G.6.

Unwanted emissions in non-restricted bands: KDB 789033 D02 v02r01, Sections G.3 and G.5.

## 8. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

### Test Equipment Used - Wireless Conducted Measurement Equipment

| Equipment ID        | Description                              | Manufacturer           | Model Number                  | Last Cal.  | Next Cal.  |
|---------------------|--|------------------------|-------------------------------|------------|------------|
| SA0025              | Spectrum Analyzer                        | Keysight Technologies  | N9030A                        | 2021-04-01 | 2022-04-01 |
| PWM003              | RF Power Meter                           | Keysight Technologies  | N1911A                        | 2021-08-30 | 2022-08-30 |
| PWS006              | Peak and Avg Power Sensor, 50MHz to 6GHz | Keysight Technologies  | N1921a                        | 2021-12-17 | 2022-12-17 |
| HI0090              | Environmental Meter                      | Fisher Scientific      | 15-077-963                    | 2021-07-12 | 2022-07-12 |
| 76021               | DC Regulated Power Supply                | CircuitSpecialists.Com | CSI3005X5                     | NA         | NA         |
| SOFTEMI             | Antenna Port Software                    | UL                     | Version 2021.11.3, 2022.02.16 | NA         | NA         |
| MY61466084          | Power Supply                             | Keysight               | E3633A                        | NA         | NA         |
| MM0167 (PRE0126458) | True RMS Multimeter                      | Agilent                | U1232A                        | 2021-08-17 | 2023-08-17 |

### Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 4)

| Equipment ID                     | Description                                       | Manufacturer/Brand | Model Number              | Last Cal.  | Next Cal.  |
|----------------------------------|---|--------------------|---------------------------|------------|------------|
| <b>1-18 GHz</b>                  |   |                    |                           |            |            |
| 206211                           | Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz | ETS Lindgren       | 3117                      | 2021-03-11 | 2022-03-11 |
| AT0069                           | Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz | ETS Lindgren       | 3117                      | 2021-06-29 | 2022-06-29 |
| <b>Gain-Loss Chains</b>          |   |                    |                           |            |            |
| C4-SAC03                         | Gain-loss string: 1-18GHz                         | Various            | Various                   | 2021-05-07 | 2022-05-07 |
| <b>Receiver &amp; Software</b>   |   |                    |                           |            |            |
| SA0026                           | Spectrum Analyzer                                 | Agilent            | N9030A                    | 2021-07-16 | 2022-07-16 |
| 206496                           | Spectrum Analyzer                                 | Rohde & Schwarz    | ESW44                     | 2022-02-15 | 2023-02-15 |
| SOFTEMI                          | EMI Software                                      | UL                 | Version 9.5 (18 Oct 2021) |            |            |
| <b>Additional Equipment used</b> |   |                    |                           |            |            |
| MY61466084                       | Power Supply                                      | Keysight           | E3633A                    | NA         | NA         |
| 210642                           | Environmental Meter                               | Fisher Scientific  | 210701942                 | 2021-8-16  | 2023-08-16 |

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 2)

| Equipment ID                     | Description                                       | Manufacturer/Brand | Model Number              | Last Cal.  | Next Cal.  |
|----------------------------------|---|--------------------|---------------------------|------------|------------|
| <b>1-18 GHz</b>                  |   |                    |                           |            |            |
| AT0072                           | Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz | ETS Lindgren       | 3117                      | 2021-05-03 | 2022-05-03 |
| <b>Gain-Loss Chains</b>          |   |                    |                           |            |            |
| C2-SAC03                         | Gain-loss string: 1-18GHz                         | Various            | Various                   | 2021-07-09 | 2022-07-09 |
| <b>Receiver &amp; Software</b>   |   |                    |                           |            |            |
| 197955                           | Spectrum Analyzer                                 | Rohde & Schwarz    | ESW44                     | 2021-03-10 | 2022-03-10 |
| SOFTEMI                          | EMI Software                                      | UL                 | Version 9.5 (18 Oct 2021) |            |            |
| <b>Additional Equipment used</b> |   |                    |                           |            |            |
| s/n 181474409                    | Environmental Meter                               | Fisher Scientific  | 15-077-963                | 2021-09-27 | 2022-09-27 |
| MY61466084                       | Power Supply                                      | Keysight           | E3633A                    | NA         | NA         |

## 9. ANTENNA PORT TEST RESULTS

### 9.1. ON TIME AND DUTY CYCLE

#### LIMITS

None; for reporting purposes only.

#### PROCEDURE

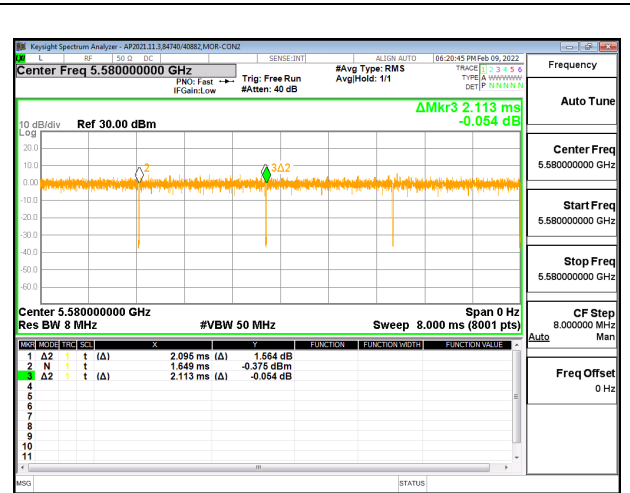
KDB 558074 Zero-Span Spectrum Analyzer Method.

#### ON TIME AND DUTY CYCLE RESULTS

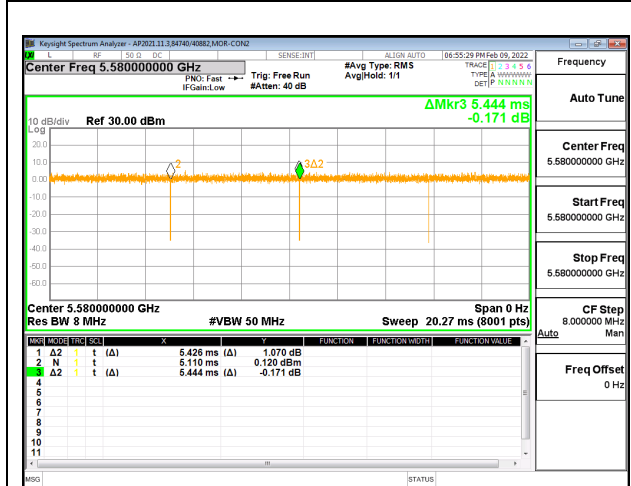
| Mode               | ON Time<br>B<br>(msec) | Period<br>(msec) | Duty Cycle<br>x<br>(linear) | Duty<br>Cycle<br>(%) | Duty Cycle<br>Correction Factor<br>(dB) | 1/B<br>Minimum VBW<br>(kHz) |
|--------------------|------------------------|------------------|-----------------------------|----------------------|---|-----------------------------|
| 802.11a C0         | 2.096                  | 2.113            | 0.992                       | 99.20                | 0.00                                    | 0.010                       |
| 802.11a C1         | 2.095                  | 2.113            | 0.991                       | 99.15                | 0.00                                    | 0.010                       |
| 802.11n HT20 C0    | 5.426                  | 5.444            | 0.997                       | 99.67                | 0.00                                    | 0.010                       |
| 802.11n HT20 C1    | 5.429                  | 5.447            | 0.997                       | 99.67                | 0.00                                    | 0.010                       |
| 802.11n HT40 C0    | 5.429                  | 5.444            | 0.997                       | 99.72                | 0.00                                    | 0.010                       |
| 802.11n HT40 C1    | 5.426                  | 5.444            | 0.997                       | 99.67                | 0.00                                    | 0.010                       |
| 802.11ac VHT80 C0  | 5.426                  | 5.444            | 0.997                       | 99.67                | 0.00                                    | 0.010                       |
| 802.11ac VHT80 C1  | 5.426                  | 5.444            | 0.997                       | 99.67                | 0.00                                    | 0.010                       |
| 802.11ac VHT160 C0 | 5.429                  | 5.444            | 0.997                       | 99.72                | 0.00                                    | 0.010                       |
| 802.11ac VHT160 C1 | 5.424                  | 5.444            | 0.996                       | 99.63                | 0.00                                    | 0.010                       |



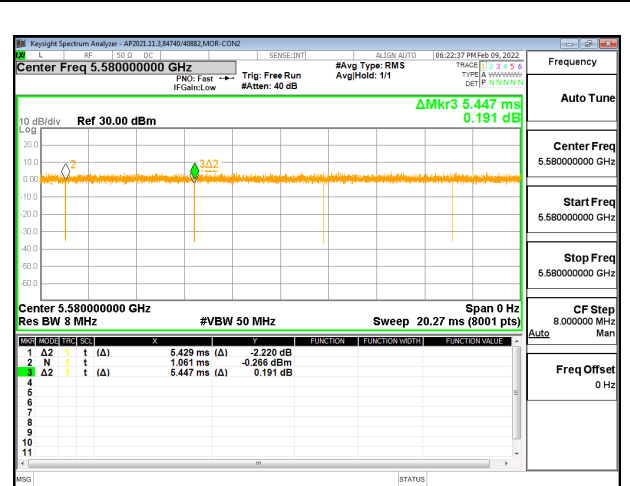
DUTY CYCLE 802.11a C0



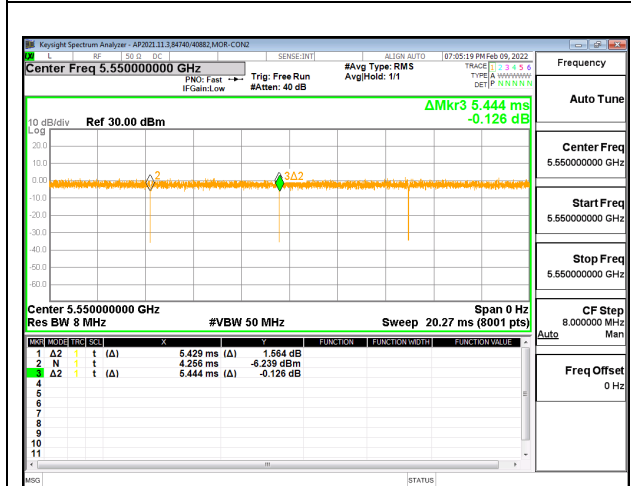
DUTY CYCLE 802.11a C1



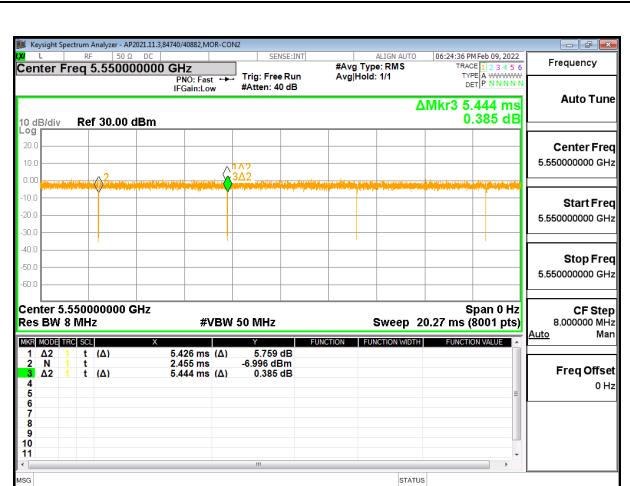
DUTY CYCLE 802.11n HT20 C0



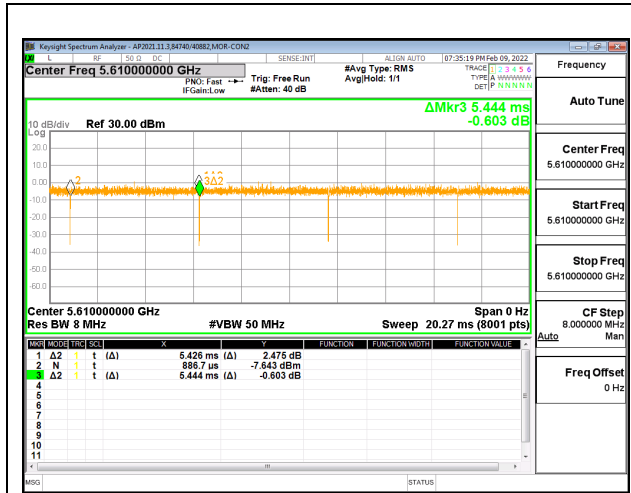
DUTY CYCLE 802.11n HT20 C1



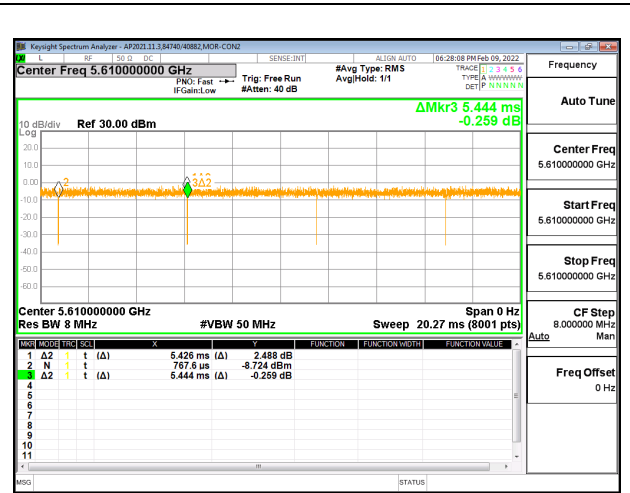
DUTY CYCLE 802.11n HT40 C0



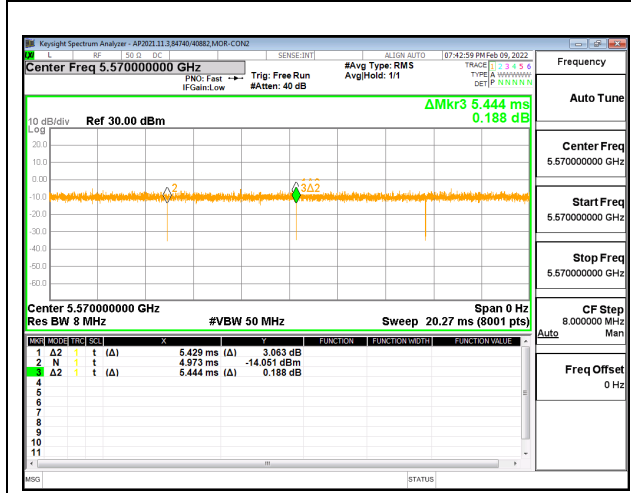
DUTY CYCLE 802.11n HT40 C1



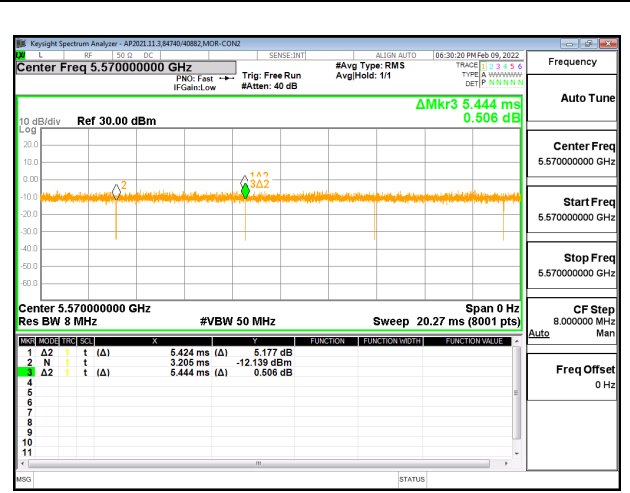
DUTY CYCLE 802.11ac VHT80 C0



DUTY CYCLE 802.11ac VHT80 C1



DUTY CYCLE 802.11ac VHT160 C0



DUTY CYCLE 802.11ac VHT160 C1

## 9.2. 26 dB BANDWIDTH

### LIMITS

None; for reporting purposes only.

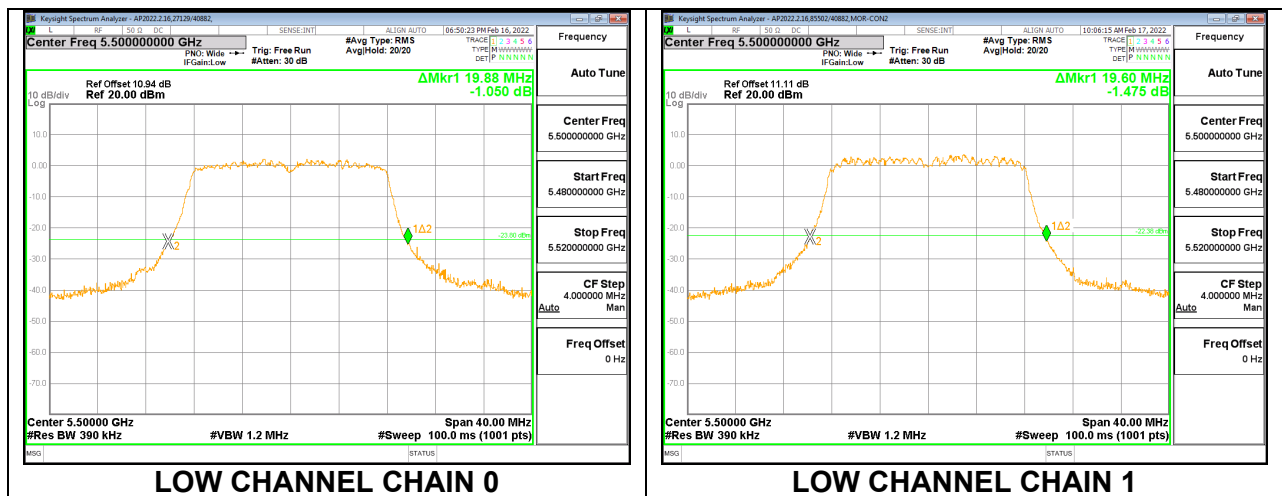
### RESULTS

#### 9.2.1. 802.11a MODE IN THE 5.6 GHz BAND

#### 2TX Chain 0 + Chain 1 CDD MODE

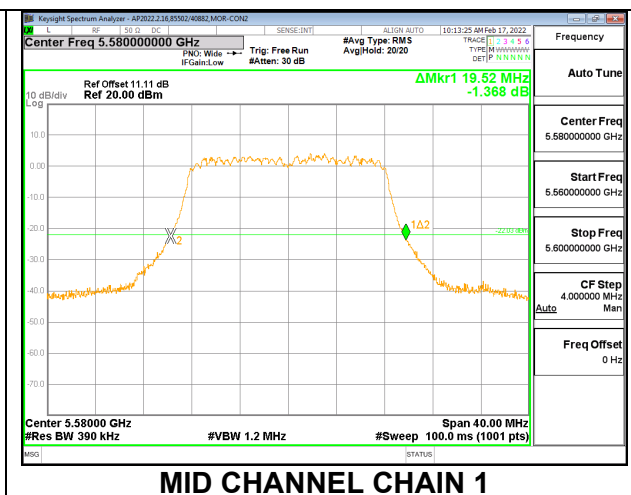
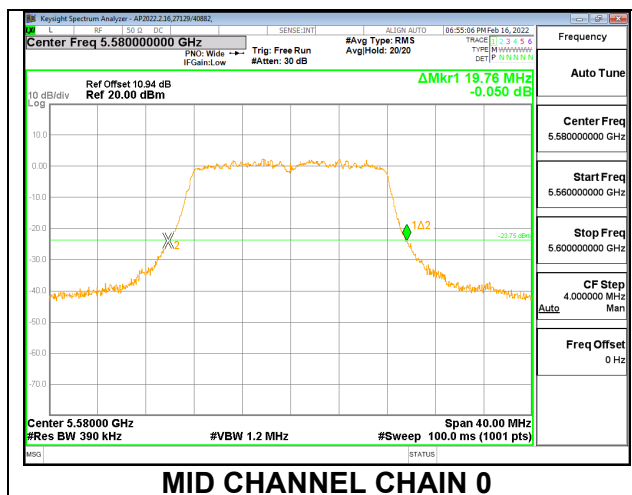
| Channel | Frequency<br>(MHz) | 26 dB Bandwidth<br>Chain 0<br>(MHz) | 26 dB Bandwidth<br>Chain 1<br>(MHz) |
|---------|--------------------|-------------------------------------|-------------------------------------|
| Low     | 5500               | 19.88                               | 19.60                               |
| Mid     | 5580               | 19.76                               | 19.52                               |
| High    | 5700               | 19.76                               | 19.56                               |
| 144     | 5720               | 15.08                               | 14.80                               |

### LOW CHANNEL

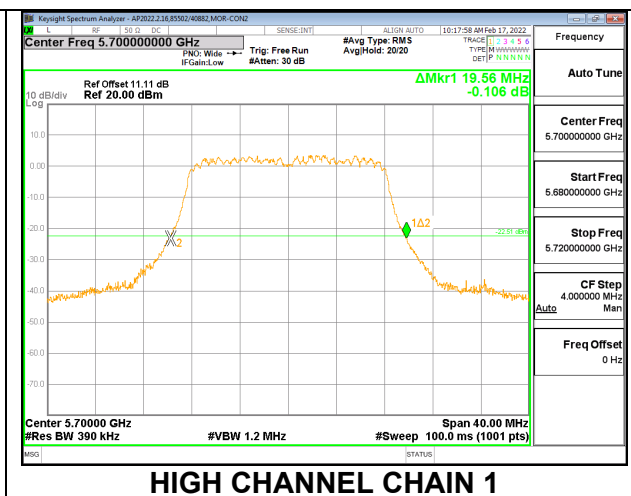
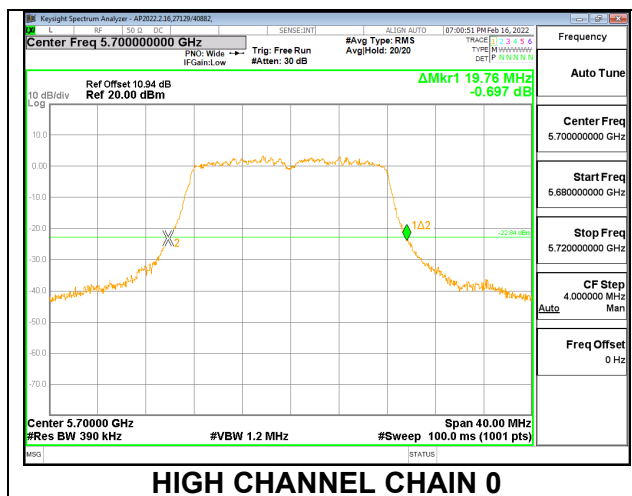




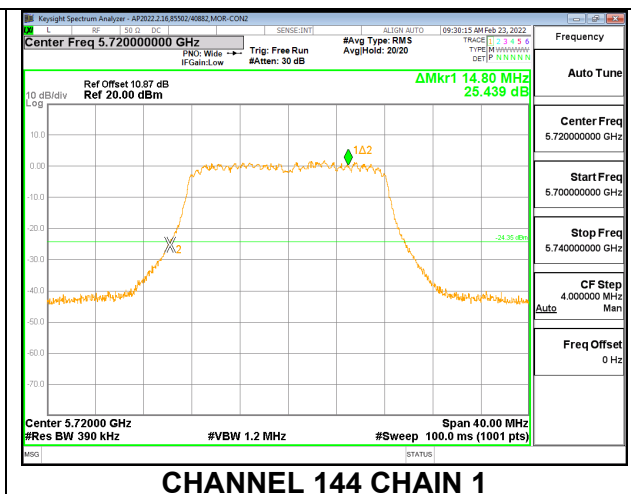
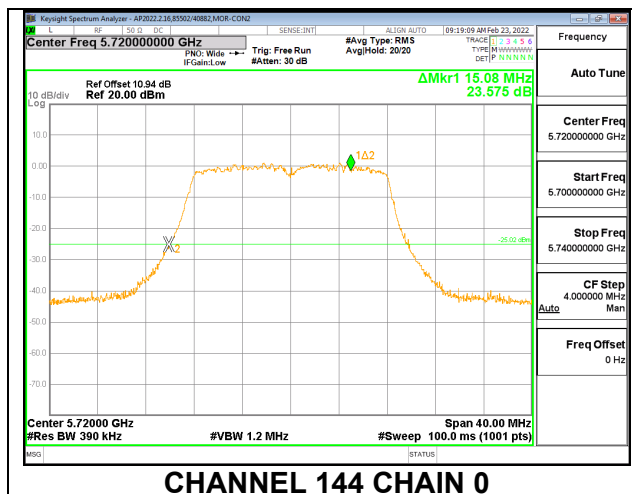
### MID CHANNEL



### HIGH CHANNEL



### CHANNEL 144

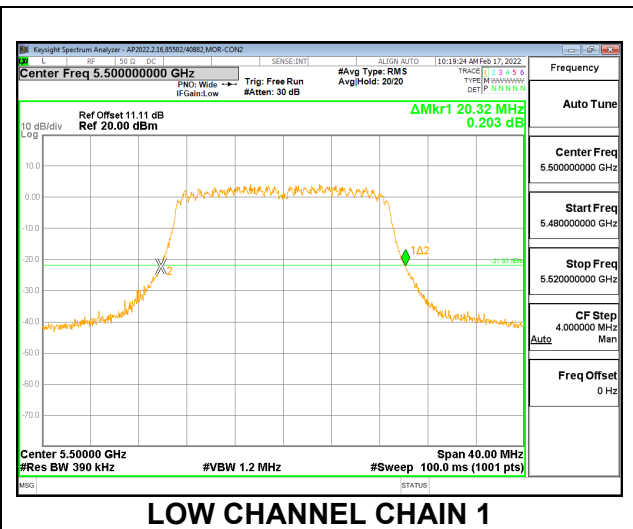
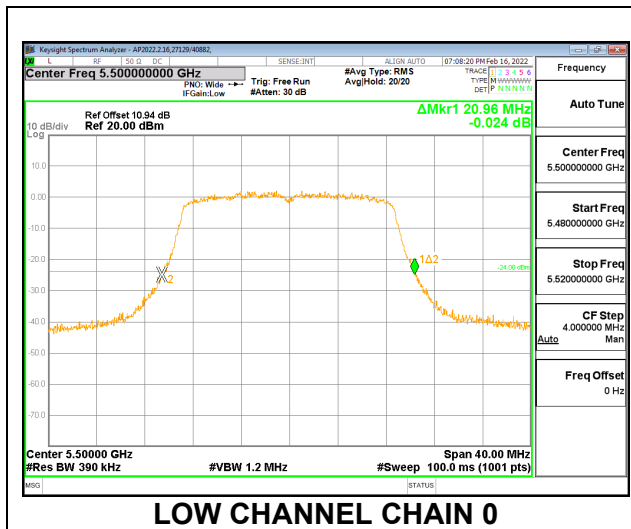


### 9.2.2. 802.11n HT20 MODE IN THE 5.6 GHz BAND

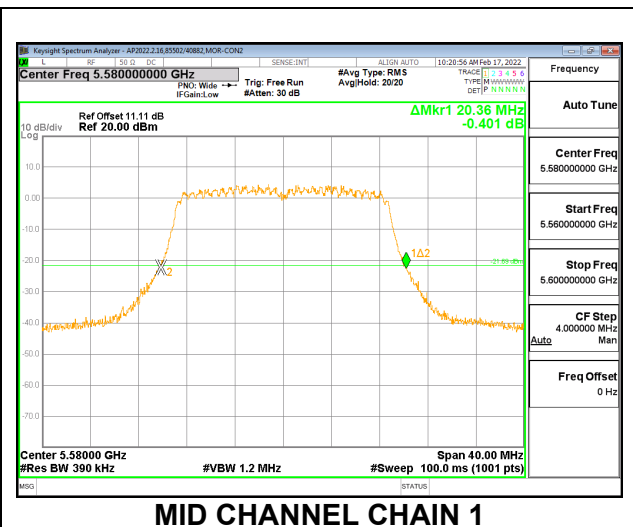
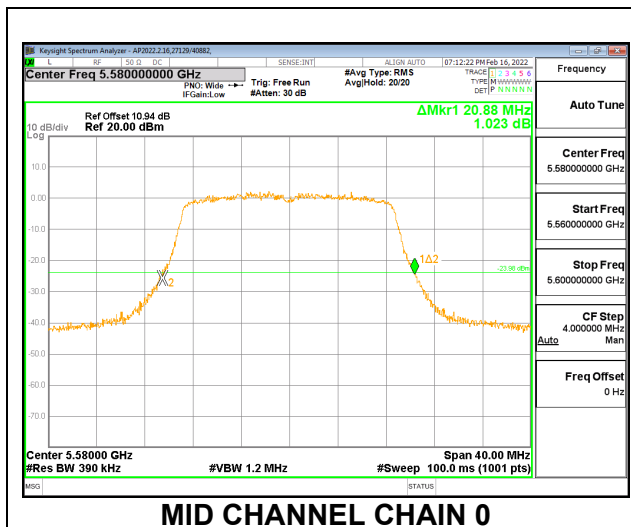
#### 2TX Chain 0 + Chain 1 CDD MODE

| Channel | Frequency (MHz) | 26 dB Bandwidth Chain 0 (MHz) | 26 dB Bandwidth Chain 1 (MHz) |
|---------|-----------------|-------------------------------|-------------------------------|
| Low     | 5500            | 20.96                         | 20.32                         |
| Mid     | 5580            | 20.88                         | 20.36                         |
| High    | 5700            | 21.00                         | 20.28                         |
| 144     | 5720            | 15.48                         | 15.32                         |

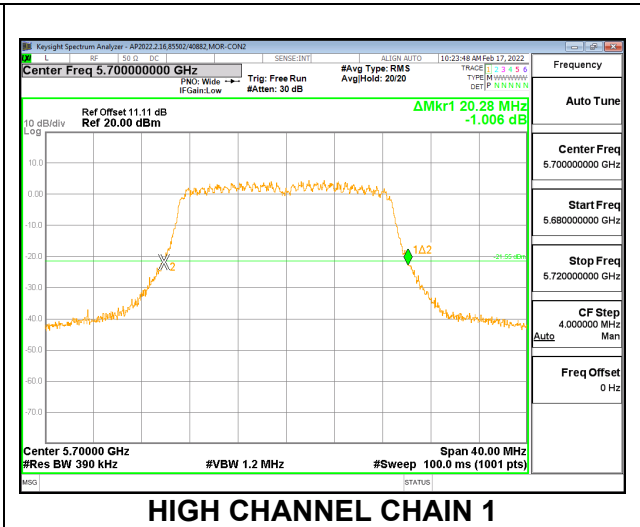
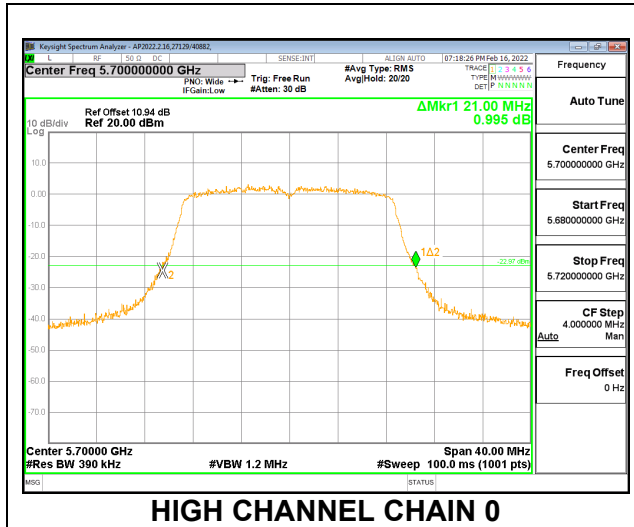
#### LOW CHANNEL



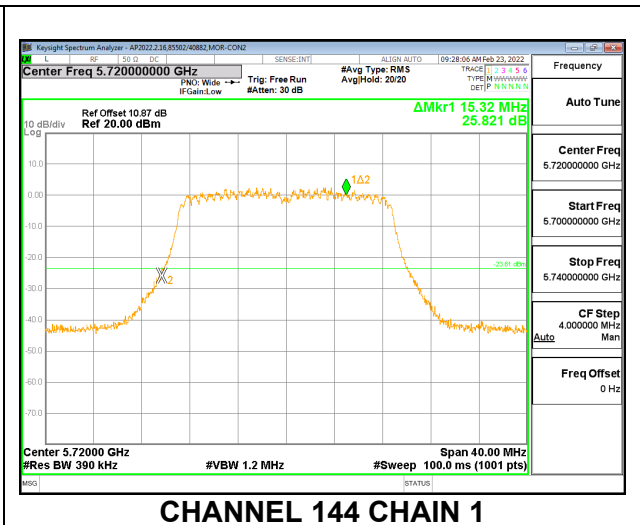
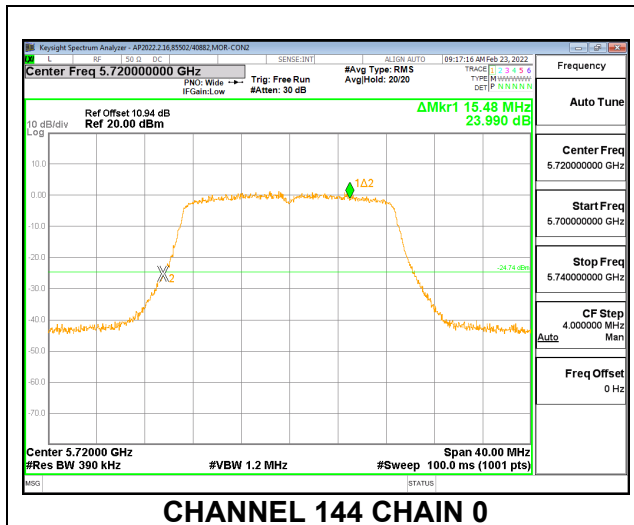
#### MID CHANNEL



### HIGH CHANNEL



### CHANNEL 144

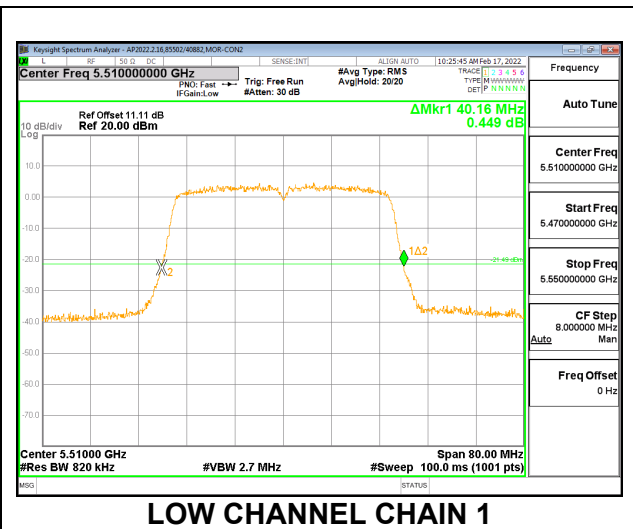
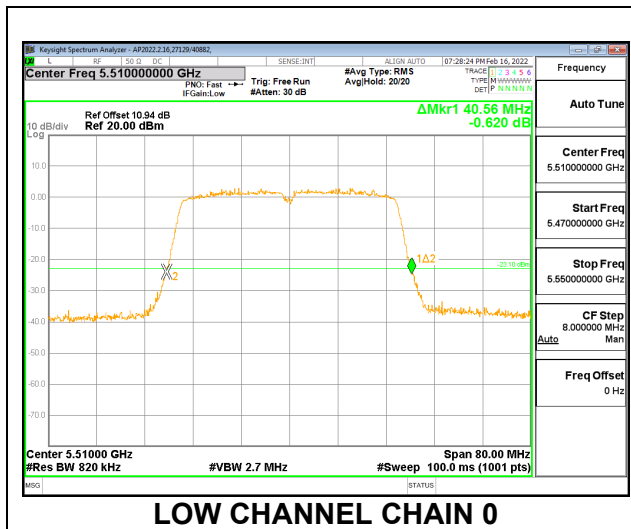


### 9.2.3. 802.11n HT40 MODE IN THE 5.6 GHz BAND

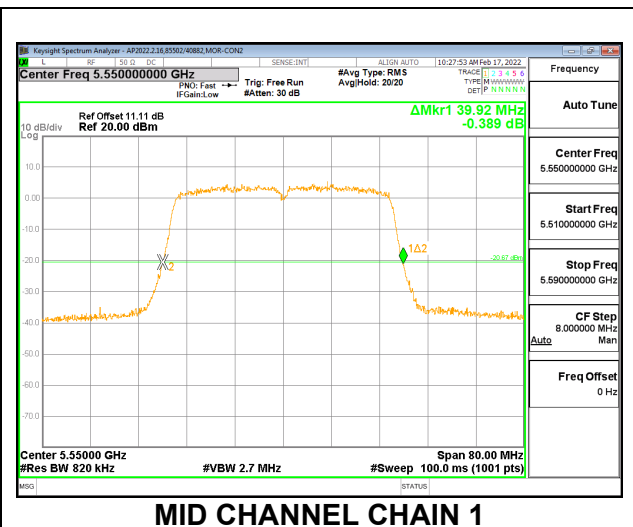
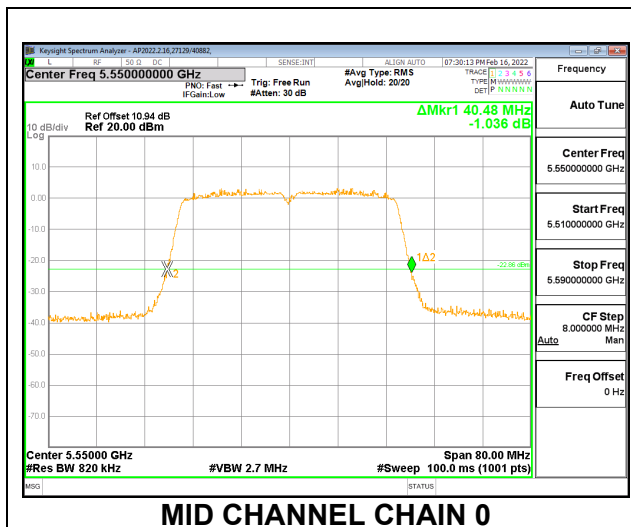
#### 2TX Chain 0 + Chain 1 CDD MODE

| Channel | Frequency (MHz) | 26 dB Bandwidth Chain 0 (MHz) | 26 dB Bandwidth Chain 1 (MHz) |
|---------|-----------------|-------------------------------|-------------------------------|
| Low     | 5510            | 40.56                         | 40.16                         |
| Mid     | 5550            | 40.48                         | 39.92                         |
| High    | 5670            | 40.56                         | 40.00                         |
| 142     | 5710            | 35.32                         | 35.00                         |

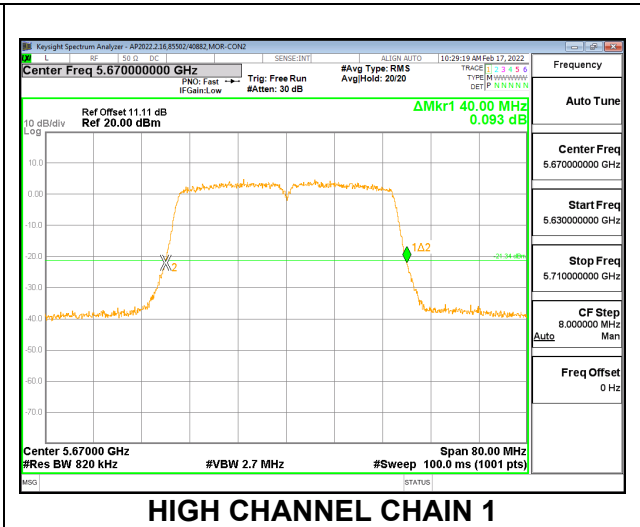
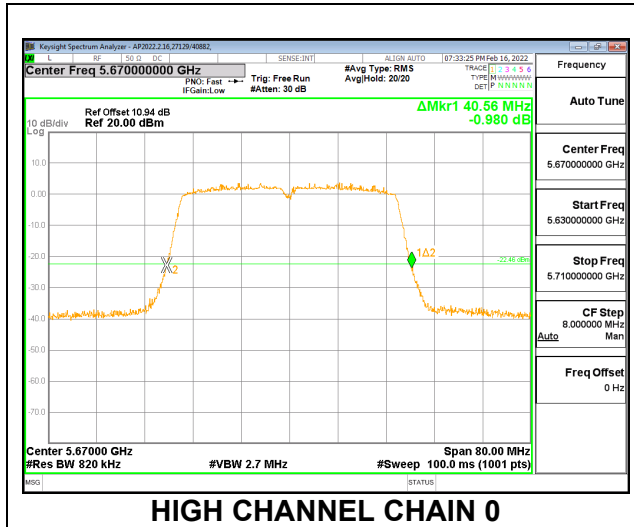
#### LOW CHANNEL



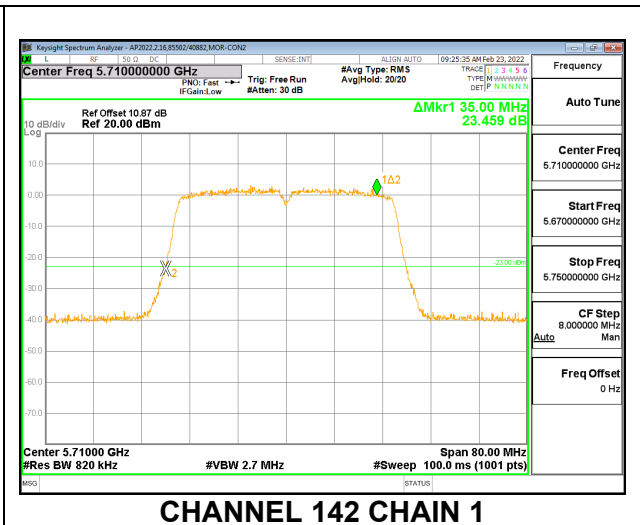
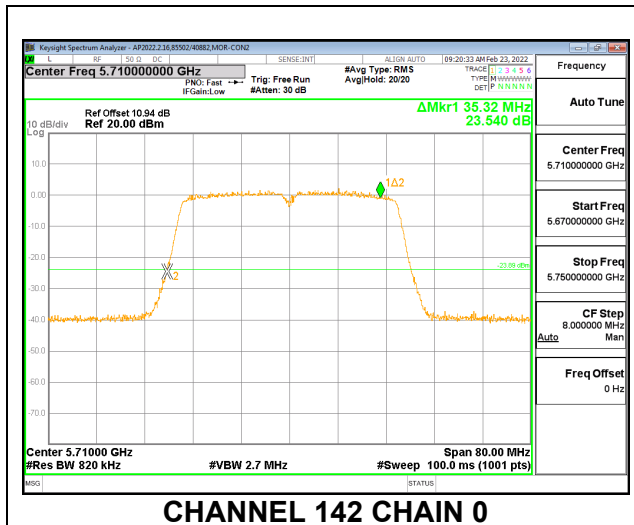
#### MID CHANNEL



### HIGH CHANNEL



### CHANNEL 142

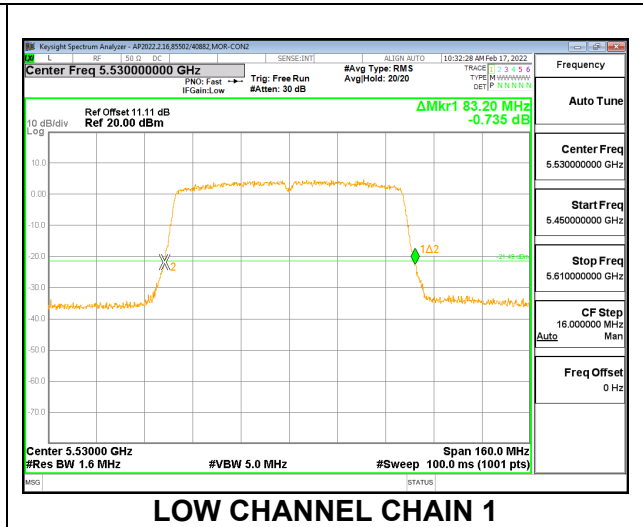
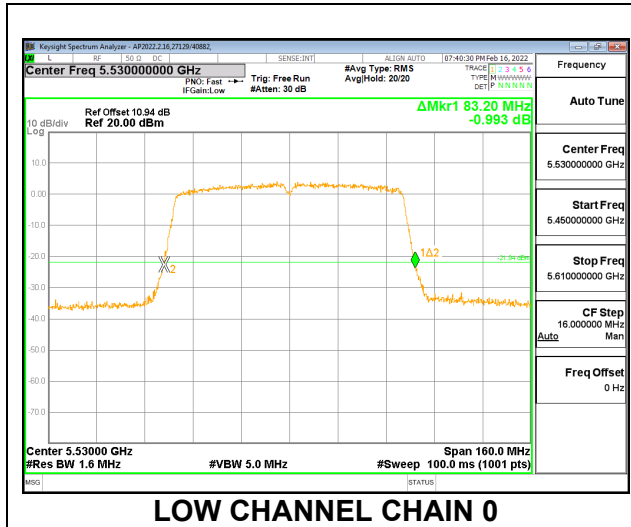


### 9.2.4. 802.11ac VHT80 MODE IN THE 5.6 GHz BAND

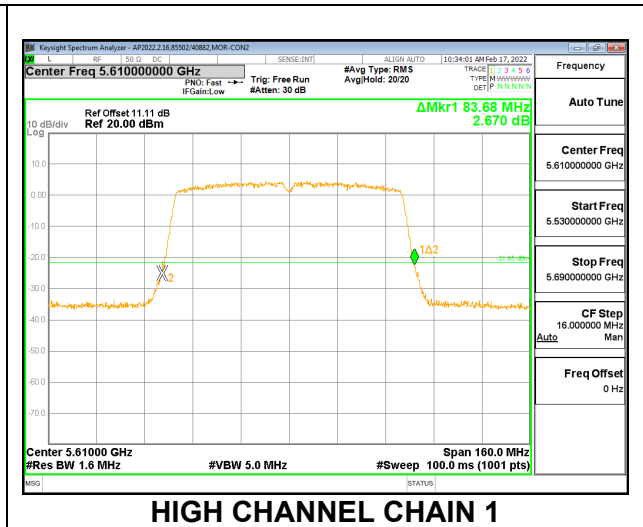
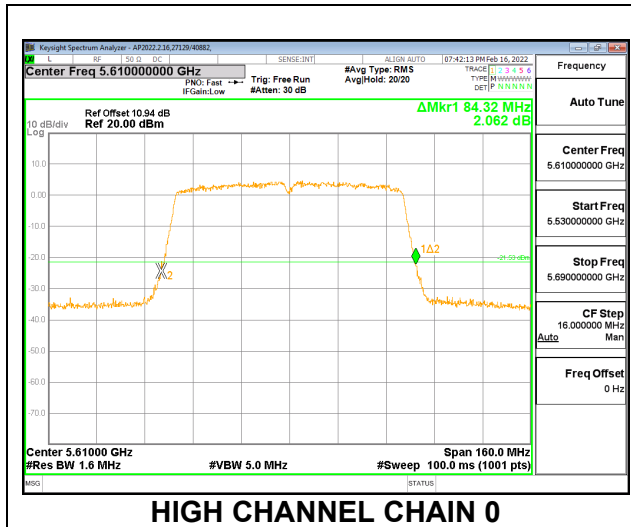
#### 2TX Chain 0 + Chain 1 CDD MODE

| Channel | Frequency (MHz) | 26 dB Bandwidth Chain 0 (MHz) | 26 dB Bandwidth Chain 1 (MHz) |
|---------|-----------------|-------------------------------|-------------------------------|
| Low     | 5530            | 83.20                         | 83.20                         |
| High    | 5610            | 84.32                         | 83.68                         |
| 138     | 5690            | 76.76                         | 76.44                         |

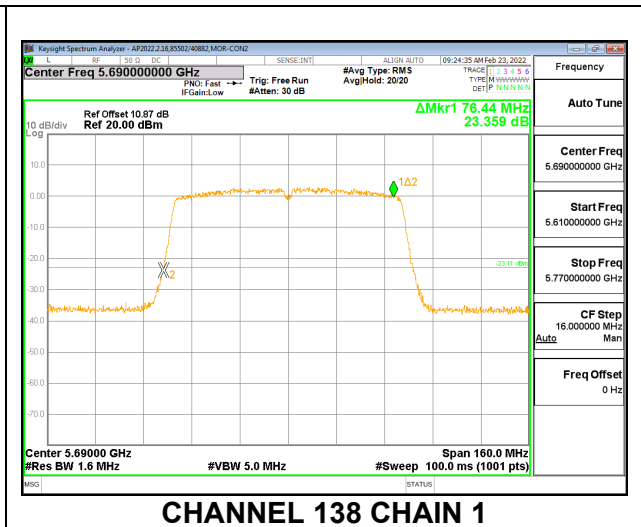
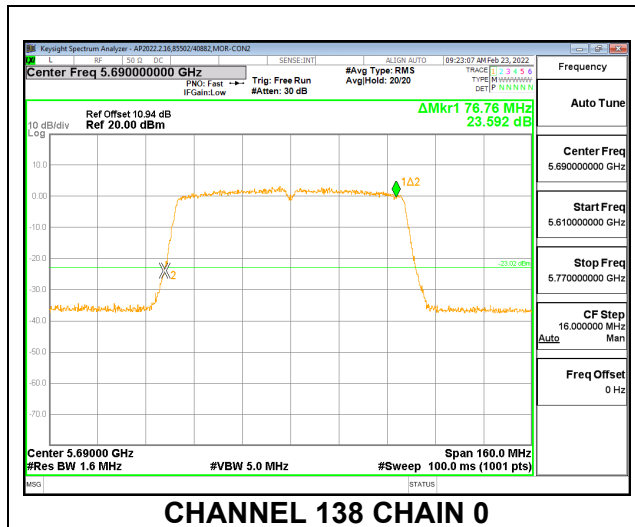
#### LOW CHANNEL



#### HIGH CHANNEL



### CHANNEL 138

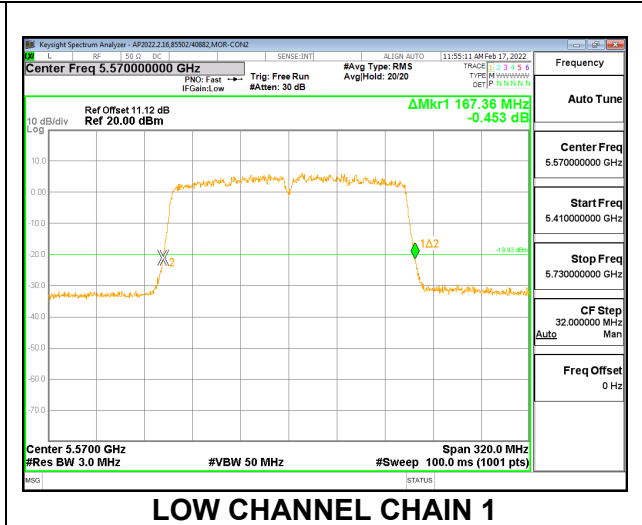
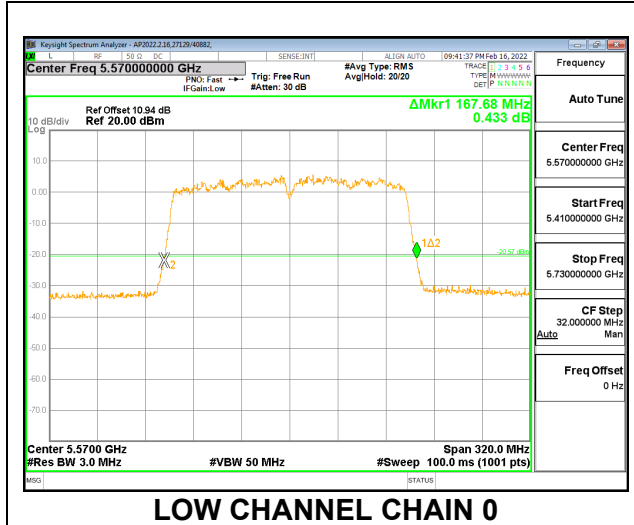


### 9.2.5. 802.11ac VHT160 MODE IN THE 5.6 GHz BAND

#### 2TX Chain 0 + Chain 1 CDD MODE

| Channel | Frequency<br>(MHz) | 26 dB Bandwidth<br>Chain 0<br>(MHz) | 26 dB Bandwidth<br>Chain 1<br>(MHz) |
|---------|--------------------|-------------------------------------|-------------------------------------|
| Low     | 5570               | 167.68                              | 167.36                              |

#### LOW CHANNEL





### 9.3. OUTPUT POWER AND PSD

#### LIMITS

#### **FCC §15.407**

##### **Bands 5.25-5.35 GHz and 5.47-5.725 GHz**

The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### TEST PROCEDURE

The measurement method used for output power is KDB 789033 D02 v02r01, Section E.3.b (Method PM-G).

The measurement method used for power spectral density is KDB 789033 D02 v02r01, Section F

The power output was measured on the EUT antenna port using SMA cable with 10dB attenuator connected to a power meter via wideband average power sensor. Gated average output power was read directly from power meter.

#### DIRECTIONAL ANTENNA GAIN

For 2 TX:

Tx chains are uncorrelated for power and correlated for PSD due to the device supporting CDD in all MIMO modes. The directional gains are as follows:

| Band (GHz) | Chain 0 Antenna Gain (dBi) | Chain 1 Antenna Gain (dBi) | Uncorrelated Chains Directional Gain (dBi) | Correlated Chains Directional Gain (dBi) |
|------------|----------------------------|----------------------------|--|--|
| 5.6        | -1                         | -7.6                       | -3.15                                      | -0.68                                    |

**RESULTS**

**9.3.1. 802.11a MODE IN THE 5.6 GHz BAND**

**2TX Chain 0 + Chain 1 CDD MODE (FCC)**

|                       |                           |
|-----------------------|---------------------------|
| <b>Test Engineer:</b> | 85502/40882               |
| <b>Test Date:</b>     | 2022-02-15 and 2022-02-17 |

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/<br>1MHz) |
|---------|--------------------|-----------------------------|---|---|-------------------------|--------------------------------|
| Low     | 5500               | 19.60                       | -3.15                                     | -0.68                                   | 23.92                   | 11.00                          |
| Mid     | 5580               | 19.52                       | -3.15                                     | -0.68                                   | 23.90                   | 11.00                          |
| High    | 5700               | 19.56                       | -3.15                                     | -0.68                                   | 23.91                   | 11.00                          |
| 144     | 5720               | 14.80                       | -3.15                                     | -0.68                                   | 22.70                   | 11.00                          |

|                           |      |   |
|---------------------------|------|---|
| <b>Duty Cycle CF (dB)</b> | 0.00 | <b>Included in Calculations of Corr'd PSD</b> |
|---------------------------|------|---|

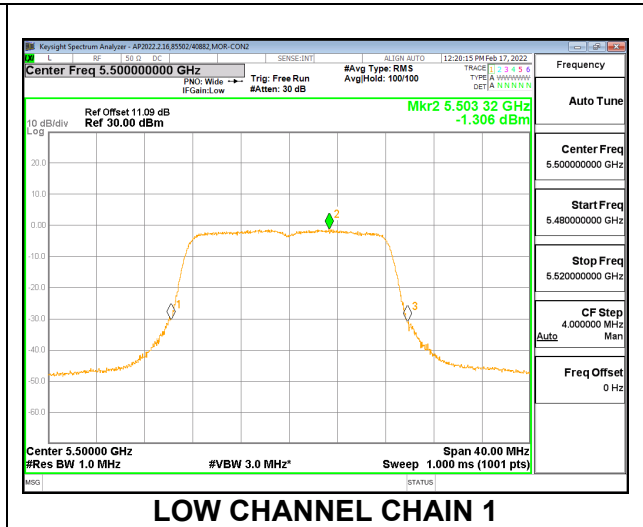
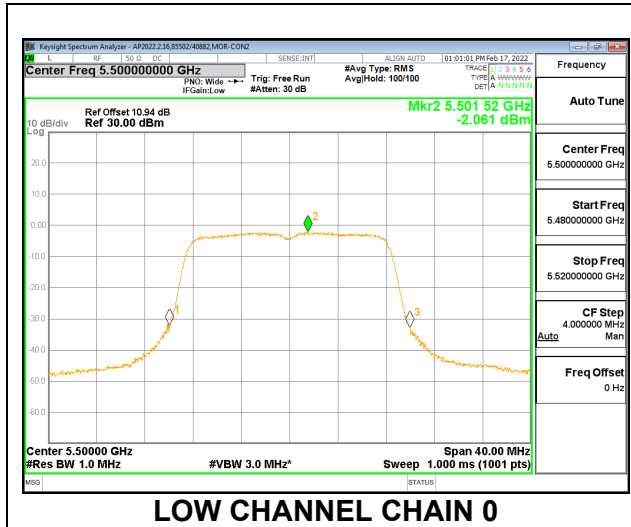
**Output Power Results**

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>Power<br>(dBm) | Chain 1<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5500               | 10.19                             | 10.89                             | 13.56                             | 23.92                   | -10.36                  |
| Mid     | 5580               | 9.95                              | 10.82                             | 13.42                             | 23.90                   | -10.49                  |
| High    | 5700               | 10.46                             | 10.26                             | 13.37                             | 23.91                   | -10.54                  |
| 144     | 5720               | 10.36                             | 10.16                             | 13.27                             | 22.70                   | -9.43                   |

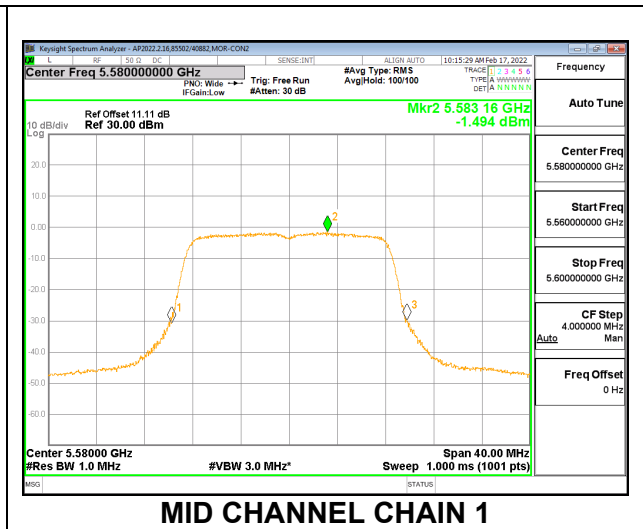
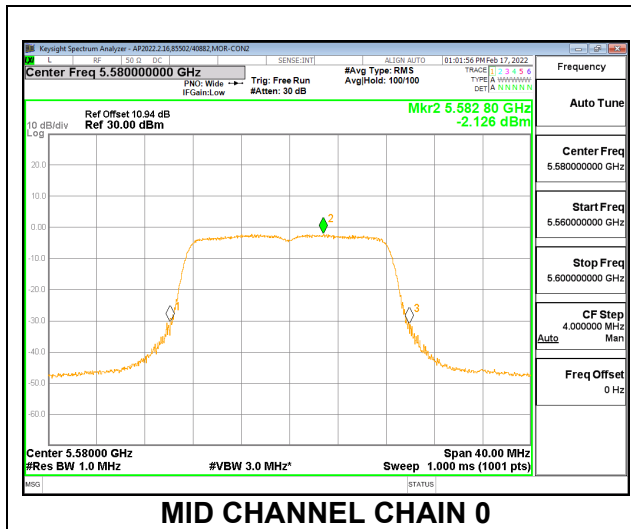
**PSD Results**

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>PSD<br>(dBm/<br>1MHz) | Chain 1<br>Meas<br>PSD<br>(dBm/<br>1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/<br>1MHz) | PSD<br>Limit<br>(dBm/<br>1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|--|--|--|--------------------------------|-----------------------|
| Low     | 5500               | -2.06                                    | -1.31                                    | 1.34                                     | 11.00                          | -9.66                 |
| Mid     | 5580               | -2.13                                    | -1.49                                    | 1.21                                     | 11.00                          | -9.79                 |
| High    | 5700               | -1.50                                    | -1.87                                    | 1.33                                     | 11.00                          | -9.67                 |
| 144     | 5720               | -1.43                                    | -1.64                                    | 1.48                                     | 11.00                          | -9.52                 |

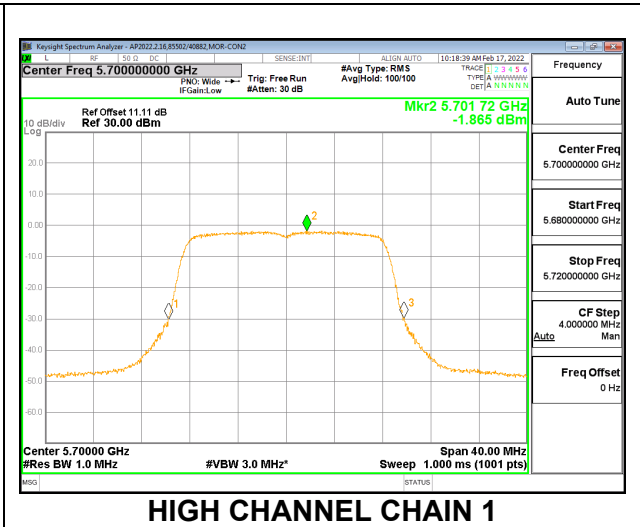
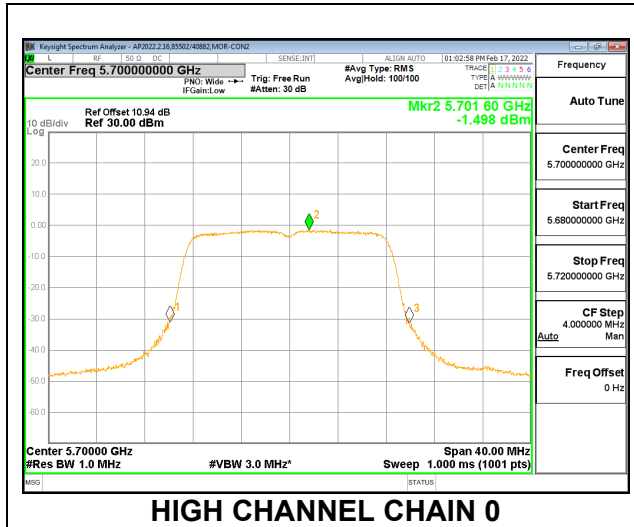
### LOW CHANNEL



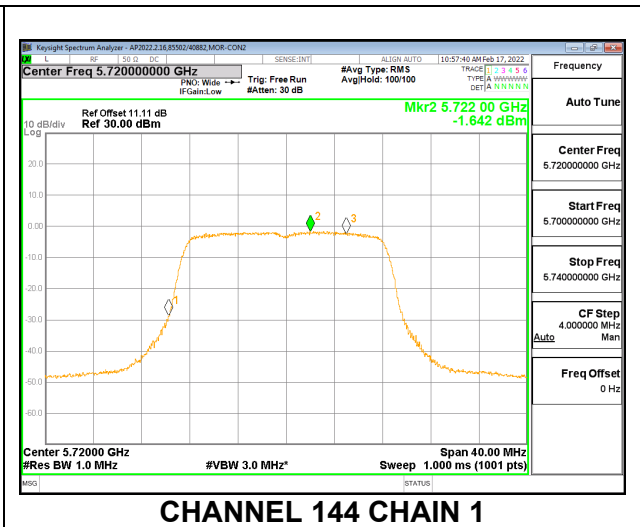
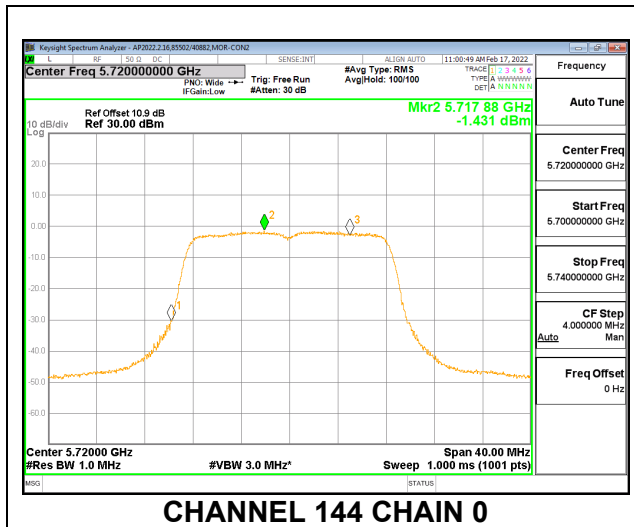
### MID CHANNEL



### HIGH CHANNEL



### CHANNEL 144



### 9.3.2. 802.11n HT20 MODE IN THE 5.6 GHz BAND

#### 2TX Chain 0 + Chain 1 CDD MODE (FCC)

|                       |                           |
|-----------------------|---------------------------|
| <b>Test Engineer:</b> | 85502/40882               |
| <b>Test Date:</b>     | 2022-02-15 and 2022-02-17 |

#### Bandwidth, Antenna Gain, and Limits

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/<br>1MHz) |
|---------|--------------------|-----------------------------|---|---|-------------------------|--------------------------------|
| Low     | 5500               | 20.32                       | -3.15                                     | -0.68                                   | 24.00                   | 11.00                          |
| Mid     | 5580               | 20.36                       | -3.15                                     | -0.68                                   | 24.00                   | 11.00                          |
| High    | 5700               | 20.28                       | -3.15                                     | -0.68                                   | 24.00                   | 11.00                          |
| 144     | 5720               | 15.32                       | -3.15                                     | -0.68                                   | 22.85                   | 11.00                          |

|                           |      |   |
|---------------------------|------|---|
| <b>Duty Cycle CF (dB)</b> | 0.00 | <b>Included in Calculations of Corr'd PSD</b> |
|---------------------------|------|---|

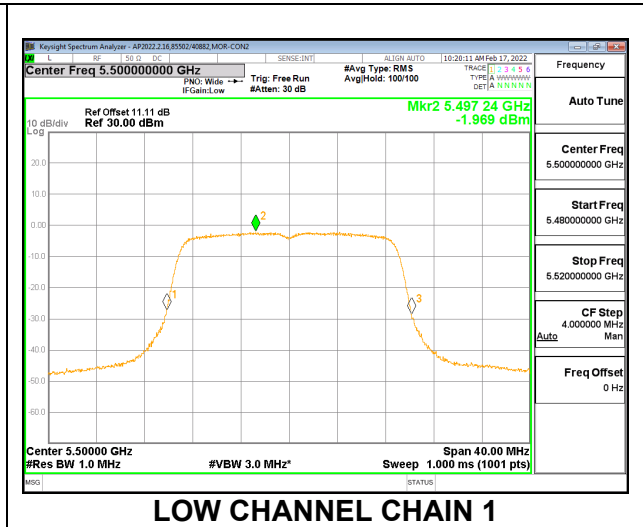
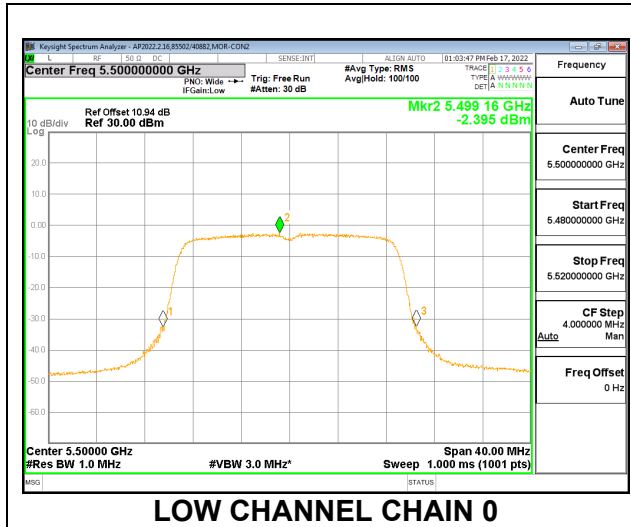
#### Output Power Results

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br><br>Power<br>(dBm) | Chain 1<br>Meas<br><br>Power<br>(dBm) | Total<br>Corr'd<br><br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------------|---------------------------------------|---------------------------------------|-------------------------|-------------------------|
| Low     | 5500               | 10.18                                 | 10.80                                 | 13.51                                 | 24.00                   | -10.49                  |
| Mid     | 5580               | 9.85                                  | 10.63                                 | 13.27                                 | 24.00                   | -10.73                  |
| High    | 5700               | 10.41                                 | 10.12                                 | 13.28                                 | 24.00                   | -10.72                  |
| 144     | 5720               | 10.31                                 | 9.98                                  | 13.16                                 | 22.85                   | -9.69                   |

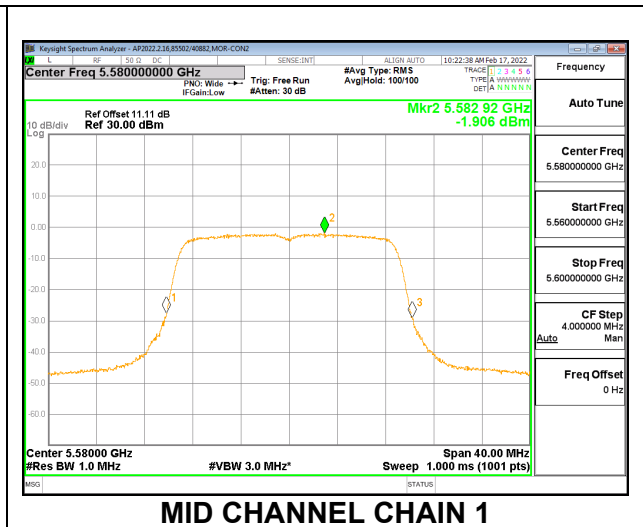
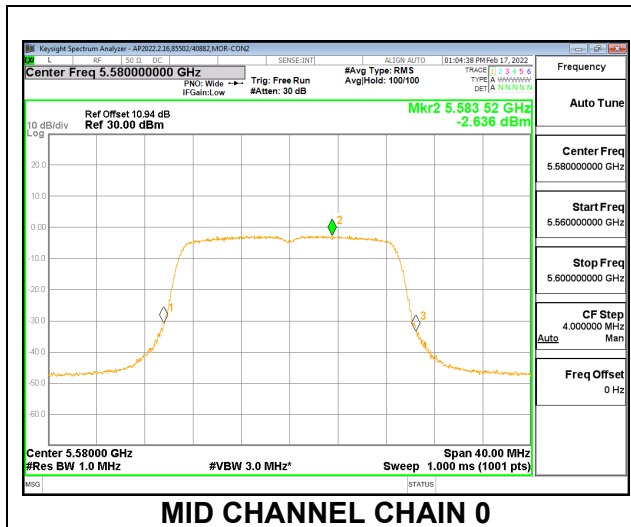
#### PSD Results

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br><br>PSD<br>(dBm/<br>1MHz) | Chain 1<br>Meas<br><br>PSD<br>(dBm/<br>1MHz) | Total<br>Corr'd<br><br>PSD<br>(dBm/<br>1MHz) | PSD<br>Limit<br>(dBm/<br>1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|--|--|--|--------------------------------|-----------------------|
| Low     | 5500               | -2.40  | -1.97  | 0.83   | 11.00                          | -10.17                |
| Mid     | 5580               | -2.64  | -1.91  | 0.75   | 11.00                          | -10.25                |
| High    | 5700               | -1.86  | -2.08  | 1.04   | 11.00                          | -9.96                 |
| 144     | 5720               | -2.04  | -1.91  | 1.04   | 11.00                          | -9.96                 |

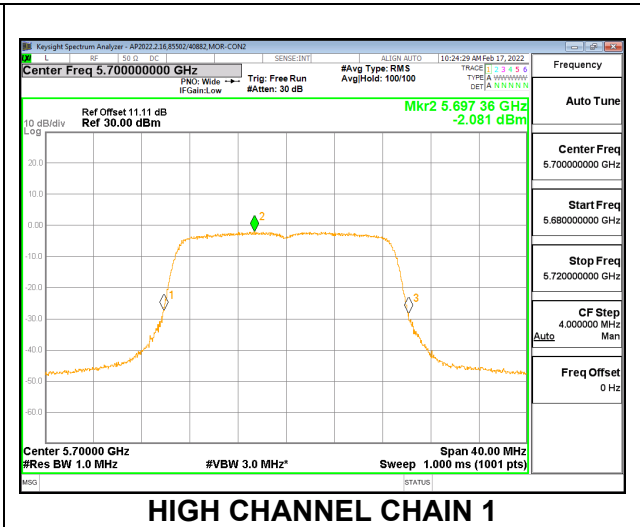
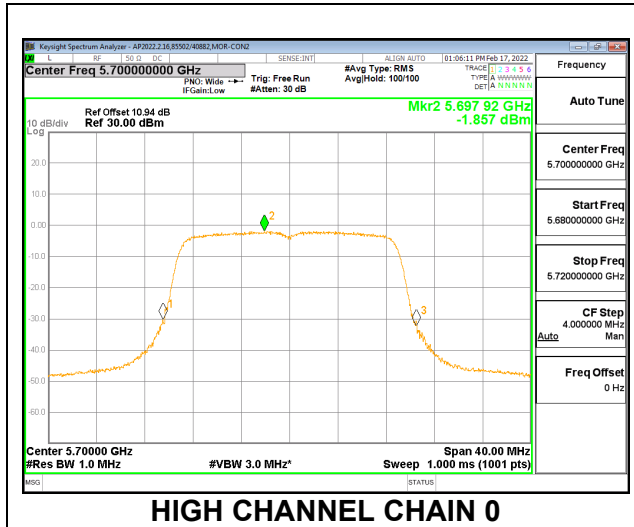
### LOW CHANNEL



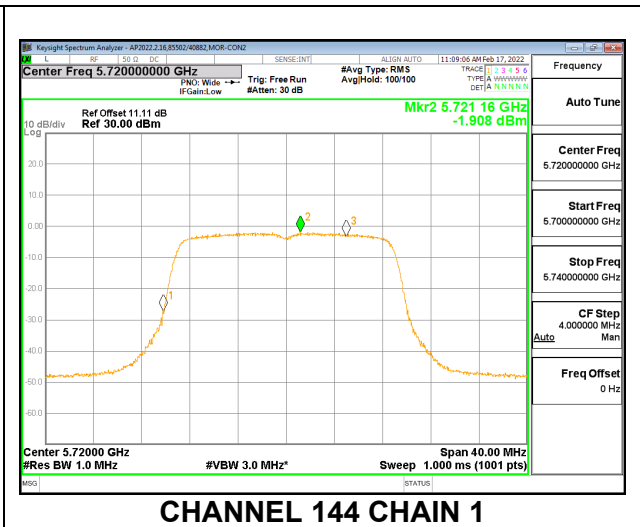
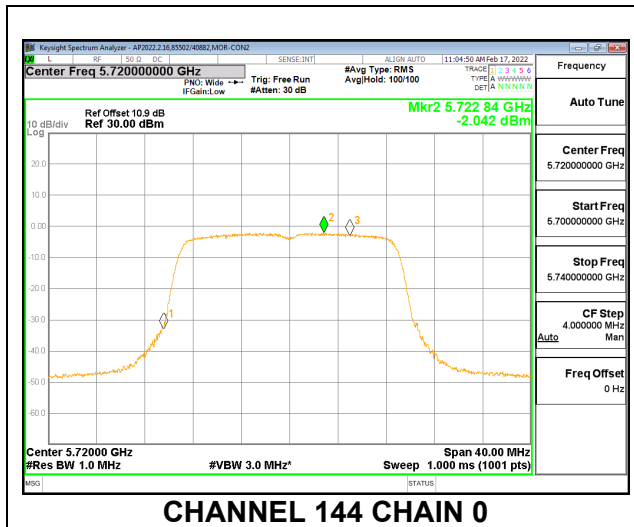
### MID CHANNEL



### HIGH CHANNEL



### CHANNEL 144



### 9.3.3. 802.11n HT40 MODE IN THE 5.6 GHz BAND

#### 2TX Chain 0 + Chain 1 CDD MODE (FCC)

|                       |                           |
|-----------------------|---------------------------|
| <b>Test Engineer:</b> | 85502/40882               |
| <b>Test Date:</b>     | 2022-02-15 and 2022-02-17 |

#### Bandwidth, Antenna Gain, and Limits

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/<br>1MHz) |
|---------|--------------------|-----------------------------|---|---|-------------------------|--------------------------------|
| Low     | 5510               | 40.16                       | -3.15                                     | -0.68                                   | 24.00                   | 11.00                          |
| Mid     | 5550               | 39.92                       | -3.15                                     | -0.68                                   | 24.00                   | 11.00                          |
| High    | 5670               | 40.00                       | -3.15                                     | -0.68                                   | 24.00                   | 11.00                          |
| 142     | 5710               | 35.00                       | -3.15                                     | -0.68                                   | 24.00                   | 11.00                          |

|                           |      |   |
|---------------------------|------|---|
| <b>Duty Cycle CF (dB)</b> | 0.00 | <b>Included in Calculations of Corr'd PSD</b> |
|---------------------------|------|---|

#### Output Power Results

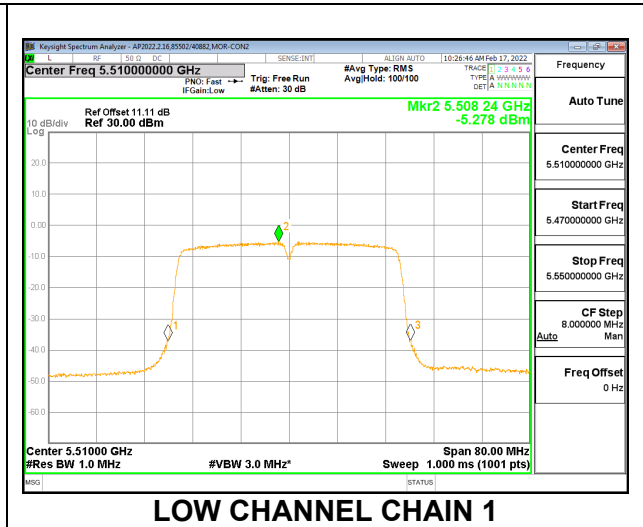
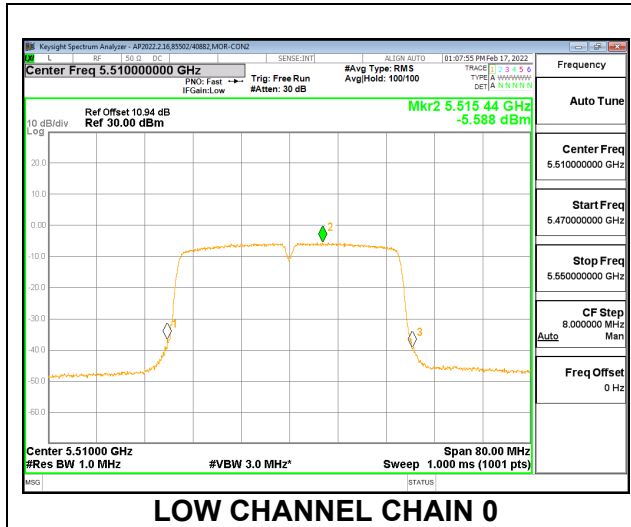
| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>Power<br>(dBm) | Chain 1<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5510               | 10.35                             | 10.77                             | 13.58                             | 24.00                   | -10.42                  |
| Mid     | 5550               | 10.53                             | 10.33                             | 13.44                             | 24.00                   | -10.56                  |
| High    | 5670               | 10.38                             | 10.16                             | 13.28                             | 24.00                   | -10.72                  |
| 142     | 5710               | 10.47                             | 10.15                             | 13.32                             | 24.00                   | -10.68                  |

#### PSD Results

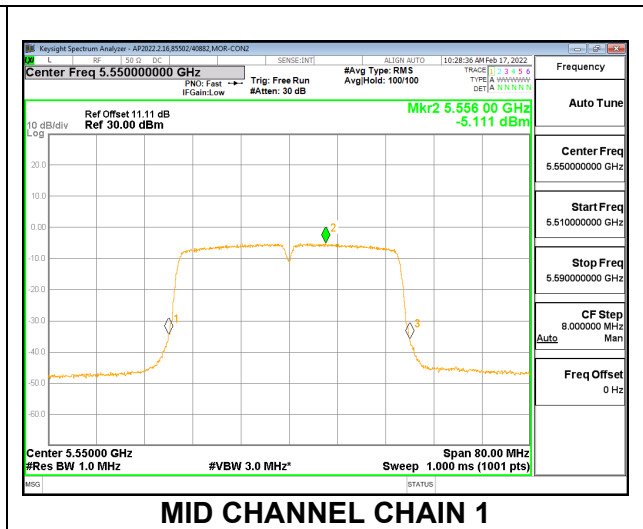
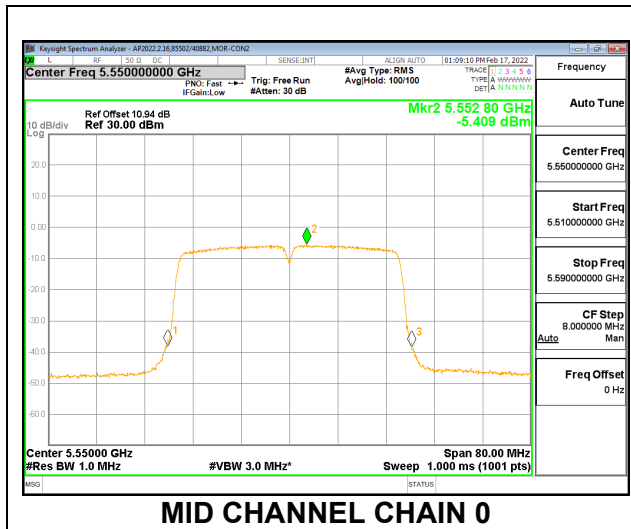
| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>PSD<br>(dBm/<br>1MHz) | Chain 1<br>Meas<br>PSD<br>(dBm/<br>1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/<br>1MHz) | PSD<br>Limit<br>(dBm/<br>1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|--|--|--|--------------------------------|-----------------------|
| Low     | 5510               | -5.59                                    | -5.28                                    | -2.42                                    | 11.00                          | -13.42                |
| Mid     | 5550               | -5.41                                    | -5.11                                    | -2.25                                    | 11.00                          | -13.25                |
| High    | 5670               | -5.24                                    | -5.15                                    | -2.19                                    | 11.00                          | -13.19                |
| 142     | 5710               | -4.90                                    | -5.18                                    | -2.03                                    | 11.00                          | -13.03                |



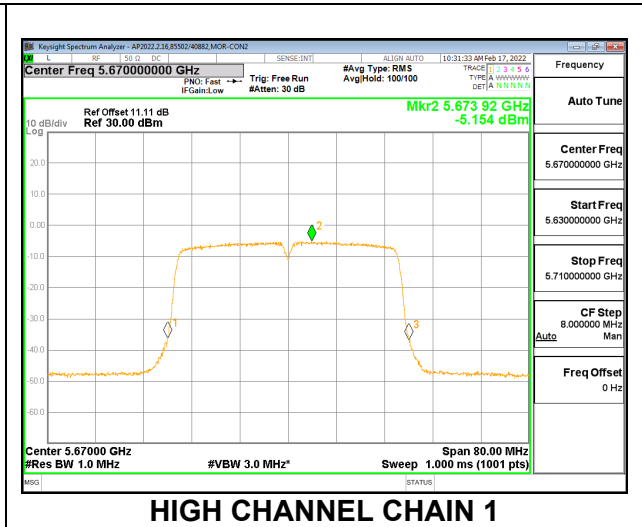
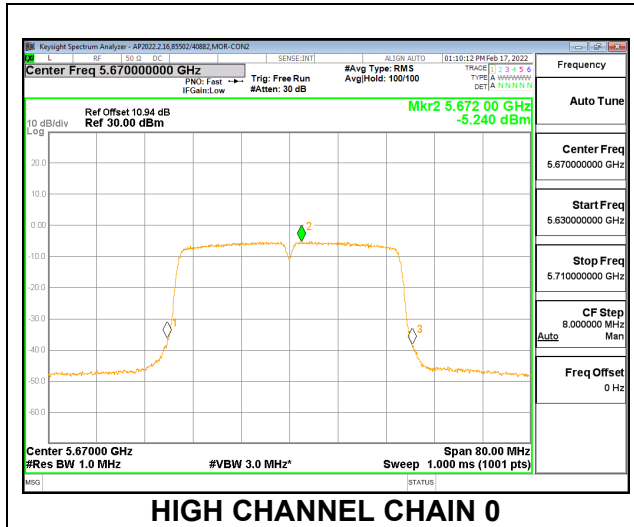
### LOW CHANNEL



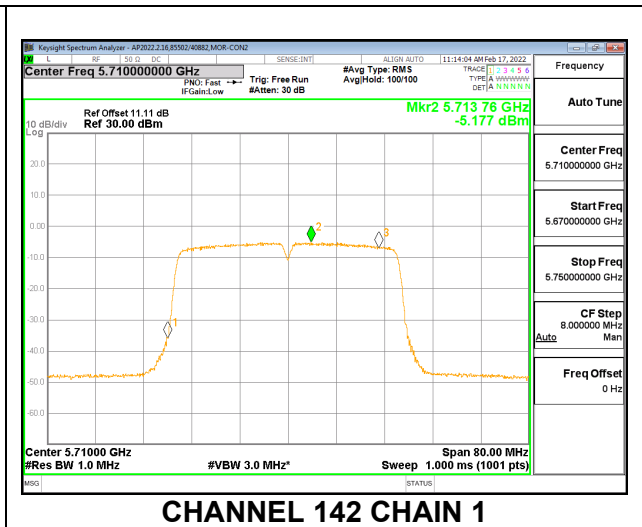
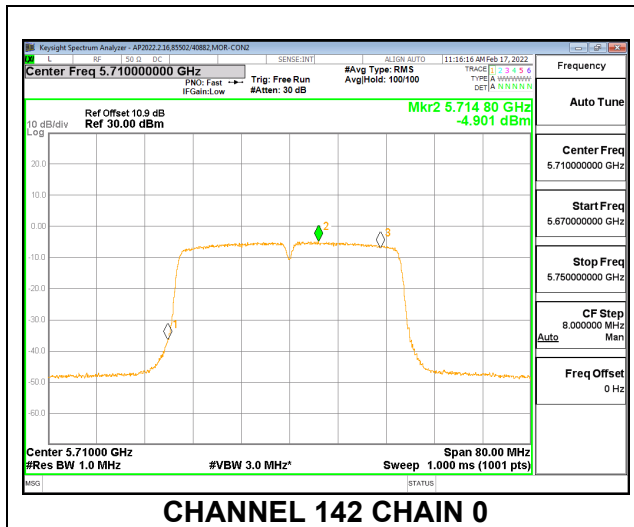
### MID CHANNEL



### HIGH CHANNEL



### CHANNEL 142



### 9.3.4. 802.11ac VHT80 MODE IN THE 5.6 GHz BAND

#### 2TX Chain 0 + Chain 1 CDD MODE (FCC)

|                       |                           |
|-----------------------|---------------------------|
| <b>Test Engineer:</b> | 85502/40882               |
| <b>Test Date:</b>     | 2022-02-15 and 2022-02-17 |

#### Bandwidth, Antenna Gain, and Limits

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/<br>1MHz) |
|---------|--------------------|-----------------------------|---|---|-------------------------|--------------------------------|
| Low     | 5530               | 83.20                       | -3.15                                     | -0.68                                   | 24.00                   | 11.00                          |
| High    | 5610               | 83.68                       | -3.15                                     | -0.68                                   | 24.00                   | 11.00                          |
| 138     | 5690               | 76.44                       | -3.15                                     | -0.68                                   | 24.00                   | 11.00                          |

|                           |      |   |
|---------------------------|------|---|
| <b>Duty Cycle CF (dB)</b> | 0.00 | <b>Included in Calculations of Corr'd PSD</b> |
|---------------------------|------|---|

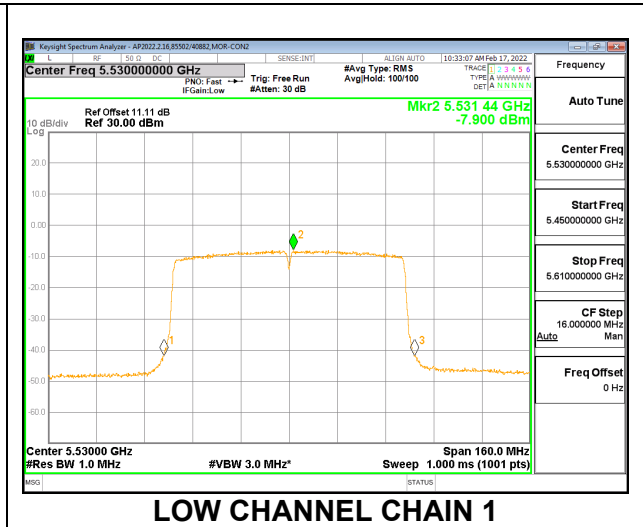
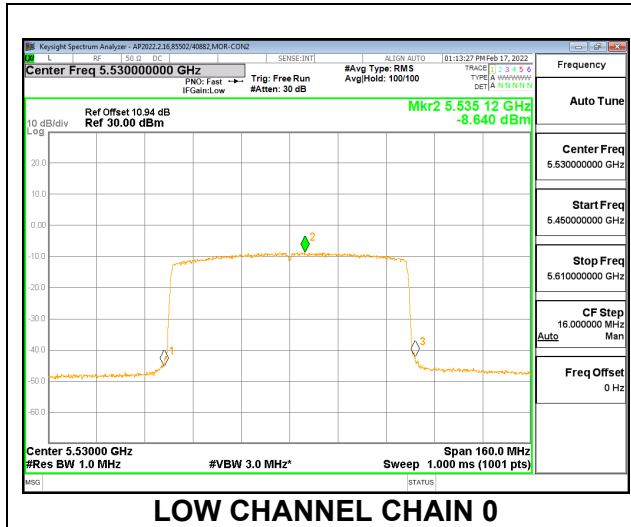
#### Output Power Results

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br><br>Power<br>(dBm) | Chain 1<br>Meas<br><br>Power<br>(dBm) | Total<br>Corr'd<br><br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|---------------------------------------|---------------------------------------|---------------------------------------|-------------------------|-------------------------|
| Low     | 5530               | 9.95                                  | 10.63                                 | 13.31                                 | 24.00                   | -10.69                  |
| High    | 5610               | 10.45                                 | 10.20                                 | 13.34                                 | 24.00                   | -10.66                  |
| 138     | 5690               | 10.42                                 | 10.00                                 | 13.23                                 | 24.00                   | -10.77                  |

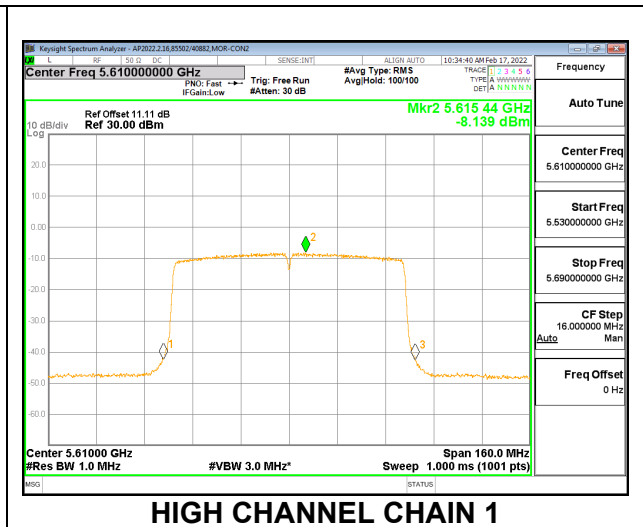
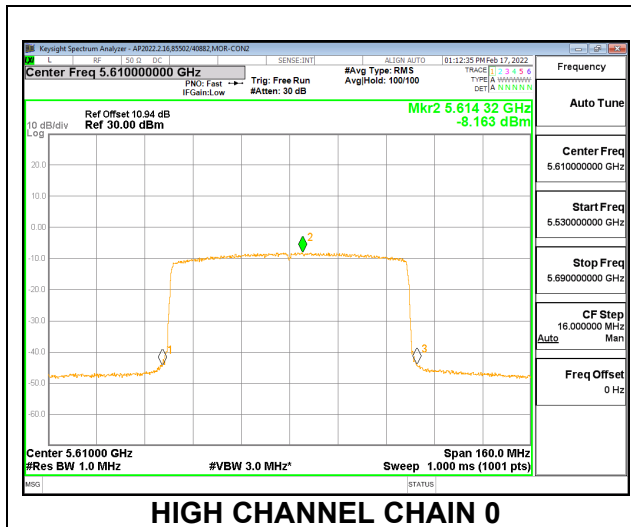
#### PSD Results

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br><br>PSD<br>(dBm/<br>1MHz) | Chain 1<br>Meas<br><br>PSD<br>(dBm/<br>1MHz) | Total<br>Corr'd<br><br>PSD<br>(dBm/<br>1MHz) | PSD<br>Limit<br>(dBm/<br>1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|--|--|--|--------------------------------|-----------------------|
| Low     | 5530               | -8.64  | -7.90  | -5.24  | 11.00                          | -16.24                |
| High    | 5610               | -8.16  | -8.14  | -5.14  | 11.00                          | -16.14                |
| 138     | 5690               | -8.24  | -8.09  | -5.15  | 11.00                          | -16.15                |

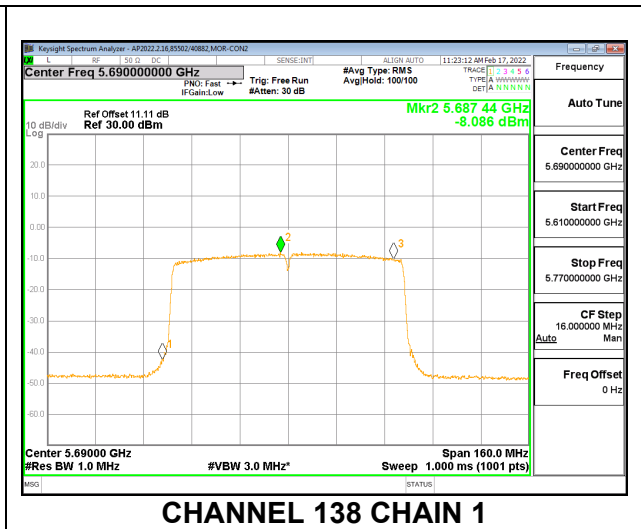
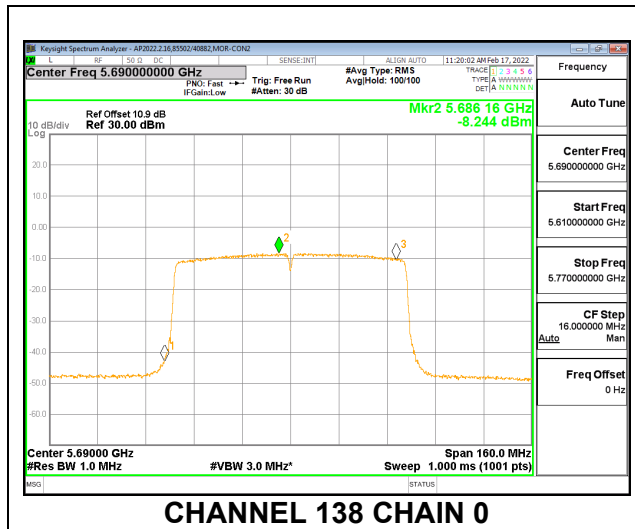
**LOW CHANNEL**



**HIGH CHANNEL**



### CHANNEL 138



### 9.3.5. 802.11ac VHT160 MODE IN THE 5.6 GHz BAND

#### 2TX Chain 0 + Chain 1 CDD MODE (FCC)

|                       |                           |
|-----------------------|---------------------------|
| <b>Test Engineer:</b> | 85502/40882               |
| <b>Test Date:</b>     | 2022-02-15 and 2022-02-17 |

#### Bandwidth, Antenna Gain, and Limits

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>for Power<br>(dBi) | Directional<br>Gain<br>for PSD<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/<br>1MHz) |
|---------|--------------------|-----------------------------|---|---|-------------------------|--------------------------------|
| Low     | 5570               | 167.36                      | -3.15                                     | -0.68                                   | 24.00                   | 11.00                          |

|                           |      |   |
|---------------------------|------|---|
| <b>Duty Cycle CF (dB)</b> | 0.00 | <b>Included in Calculations of Corr'd PSD</b> |
|---------------------------|------|---|

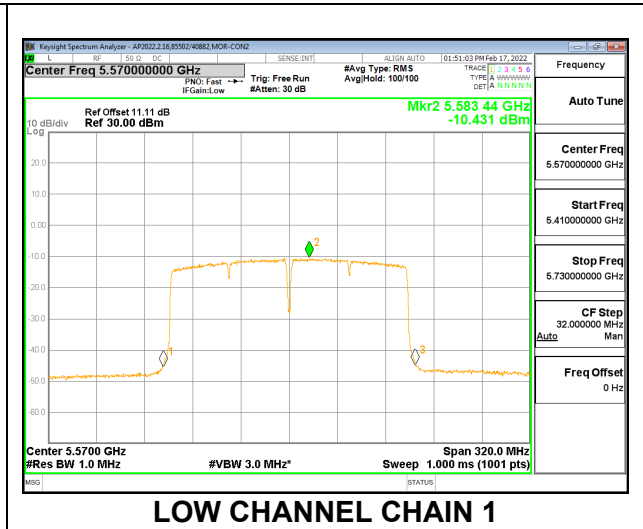
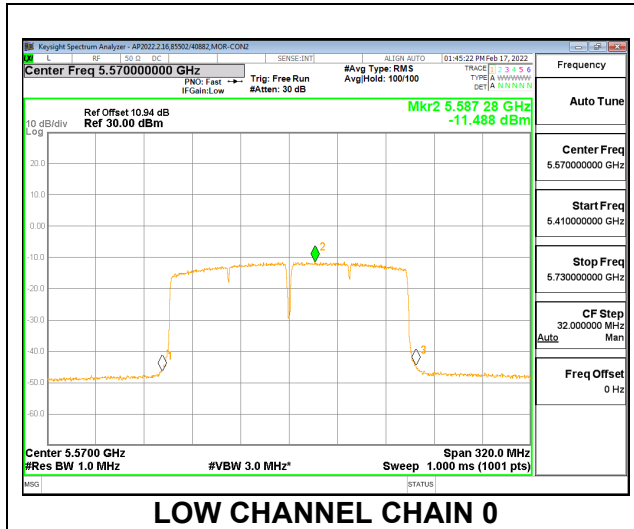
#### Output Power Results

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>Power<br>(dBm) | Chain 1<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5570               | 9.85                              | 10.50                             | 13.20                             | 24.00                   | -10.80                  |

#### PSD Results

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>PSD<br>(dBm/<br>1MHz) | Chain 1<br>Meas<br>PSD<br>(dBm/<br>1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/<br>1MHz) | PSD<br>Limit<br>(dBm/<br>1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|--|--|--|--------------------------------|-----------------------|
| Low     | 5530               | -11.49                                   | -10.43                                   | -7.92                                    | 11.00                          | -18.92                |

### LOW CHANNEL



## 10. RADIATED TEST RESULTS

### LIMITS

FCC §15.205 and §15.209 - Restricted bands  
FCC §15.407(b)(1-3) - Non-Restricted bands

#### After January 01, 2019 for Outside of the Restricted Bands Emissions

| Frequency Range (MHz) | Field Strength Limit (uV/m) at 3 m | Field Strength Limit (dBuV/m) at 3 m |
|-----------------------|------------------------------------|--------------------------------------|
| 30 - 88               | 100                                | 40                                   |
| 88 - 216              | 150                                | 43.5                                 |
| 216 - 960             | 200                                | 46                                   |
| Above 960             | 500                                | 54                                   |

### TEST PROCEDURE

The EUT is placed on a non-conducting table 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3MHz for peak measurements.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for linear voltage average measurements.

The spectrum from 1GHz to 18GHz is investigated with the transmitter set to transmit at the lowest, middle, and highest channels in the 5 GHz bands.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.



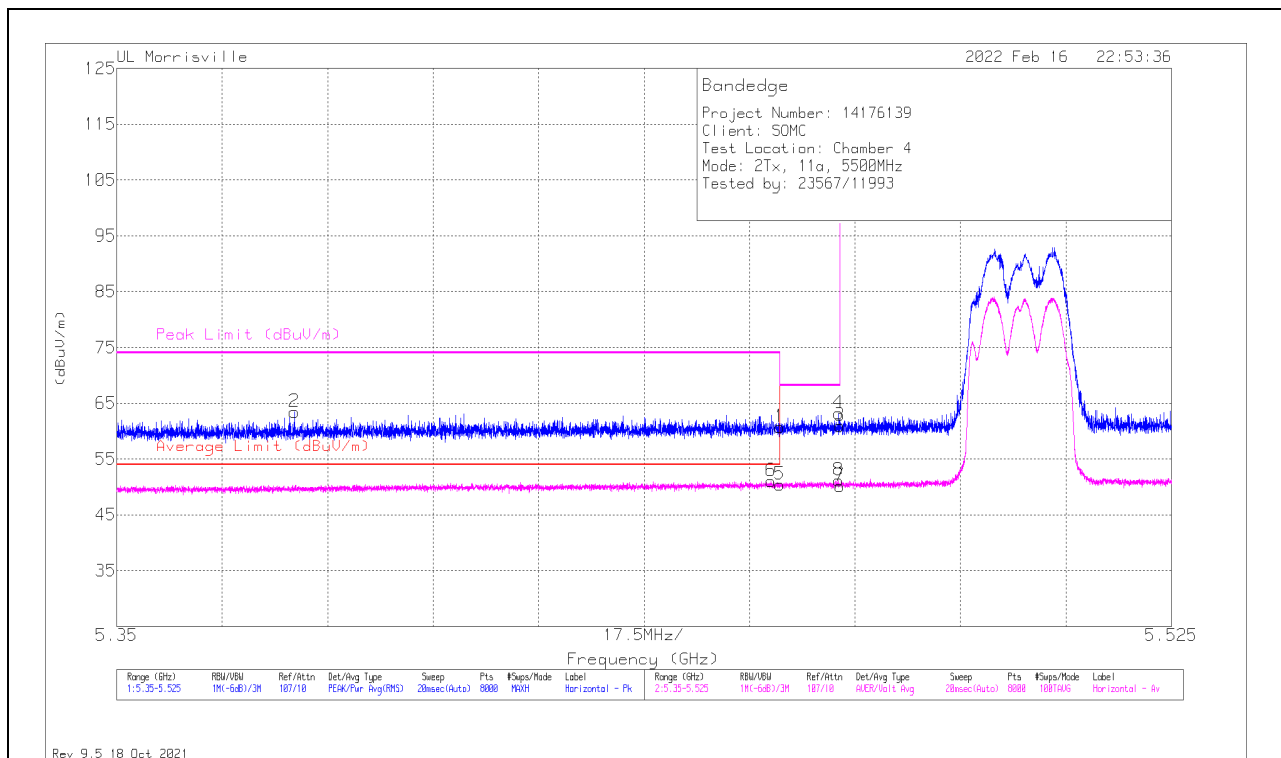
## 10.1. TRANSMITTER ABOVE 1 GHz

### 10.1.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.6 GHz BAND

#### 2TX Chain 0 + Chain 1 CDD MODE

#### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 206211 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | *** 5.45998     | 35.97                | Pk  | 34.4          | -9.7                   | 60.67                      | -                      | -           | 74                  | -13.33         | 65             | 103         | H        |
| 2      | *** 5.37947     | 39.07                | Pk  | 34.4          | -10                    | 63.47                      | -                      | -           | 74                  | -10.53         | 65             | 103         | H        |
| 5      | *** 5.45998     | 25.76                | ADV | 34.4          | -9.7                   | 50.46                      | 54                     | -3.54       | -                   | -              | 65             | 103         | H        |
| 6      | *** 5.45858     | 26.29                | ADV | 34.4          | -9.7                   | 50.99                      | 54                     | -3.01       | -                   | -              | 65             | 103         | H        |
| 4      | 5.4698          | 38.53                | Pk  | 34.4          | -9.7                   | 63.23                      | -                      | -           | 68.2                | -4.97          | 65             | 103         | H        |
| 8      | 5.4698          | 26.46                | ADV | 34.4          | -9.7                   | 51.16                      | -                      | -           | -                   | -              | 65             | 103         | H        |
| 3      | 5.46998         | 36.29                | Pk  | 34.4          | -9.7                   | 60.99                      | -                      | -           | 68.2                | -7.21          | 65             | 103         | H        |
| 7      | 5.46998         | 25.44                | ADV | 34.4          | -9.7                   | 50.14                      | -                      | -           | -                   | -              | 65             | 103         | H        |

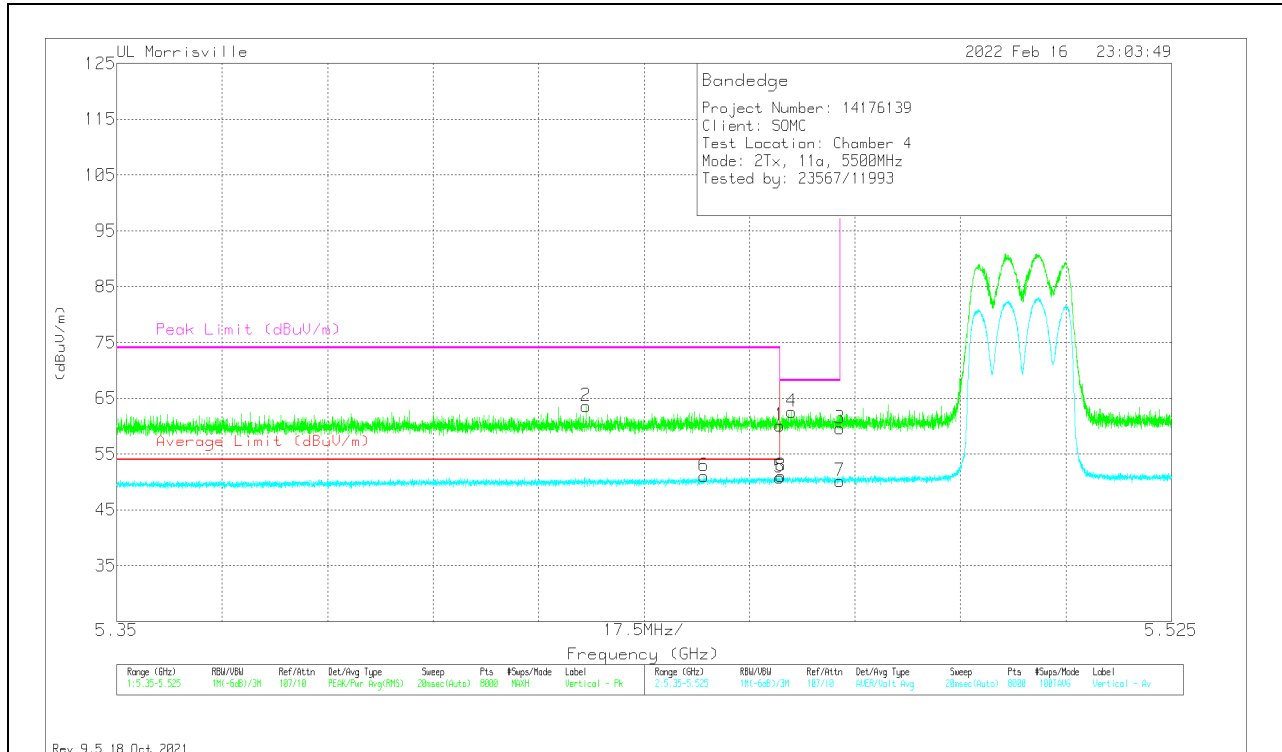
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

### VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 206211 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | *** 5.45998     | 35.35                | Pk  | 34.4          | -9.7                   | 60.05                      | -                      | -           | 74                  | -13.95         | 74             | 315         | V        |
| 2      | *** 5.42786     | 39.05                | Pk  | 34.4          | -9.9                   | 63.55                      | -                      | -           | 74                  | -10.45         | 74             | 315         | V        |
| 5      | *** 5.45998     | 26.1                 | ADV | 34.4          | -9.7                   | 50.8                       | 54                     | -3.2        | -                   | -              | 74             | 315         | V        |
| 6      | *** 5.44744     | 26.42                | ADV | 34.4          | -9.8                   | 51.02                      | 54                     | -2.98       | -                   | -              | 74             | 315         | V        |
| 8      | 5.46024         | 26.35                | ADV | 34.4          | -9.7                   | 51.05                      | -                      | -           | -                   | -              | 74             | 315         | V        |
| 4      | 5.46202         | 37.87                | Pk  | 34.4          | -9.7                   | 62.57                      | -                      | -           | 68.2                | -5.63          | 74             | 315         | V        |
| 3      | 5.46998         | 34.93                | Pk  | 34.4          | -9.7                   | 59.63                      | -                      | -           | 68.2                | -8.57          | 74             | 315         | V        |
| 7      | 5.46998         | 25.42                | ADV | 34.4          | -9.7                   | 50.12                      | -                      | -           | -                   | -              | 74             | 315         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

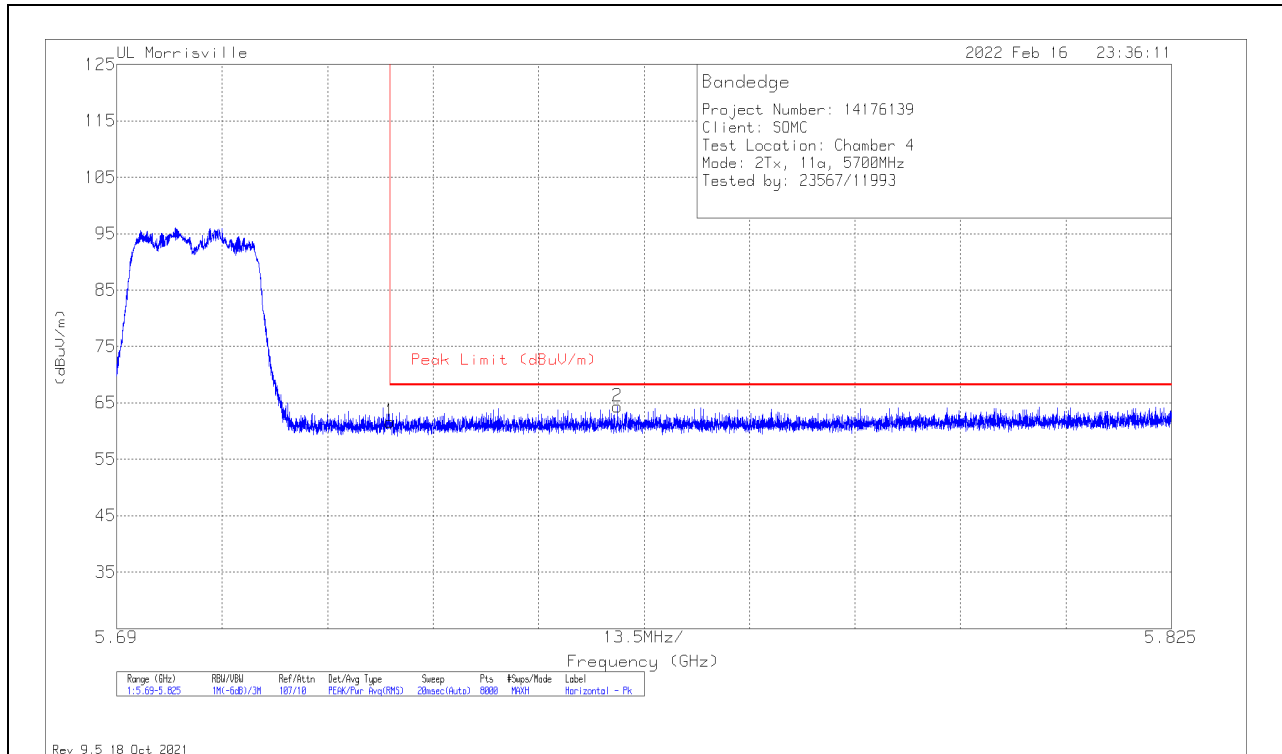
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

**BANDEDGE (HIGH CHANNEL)**

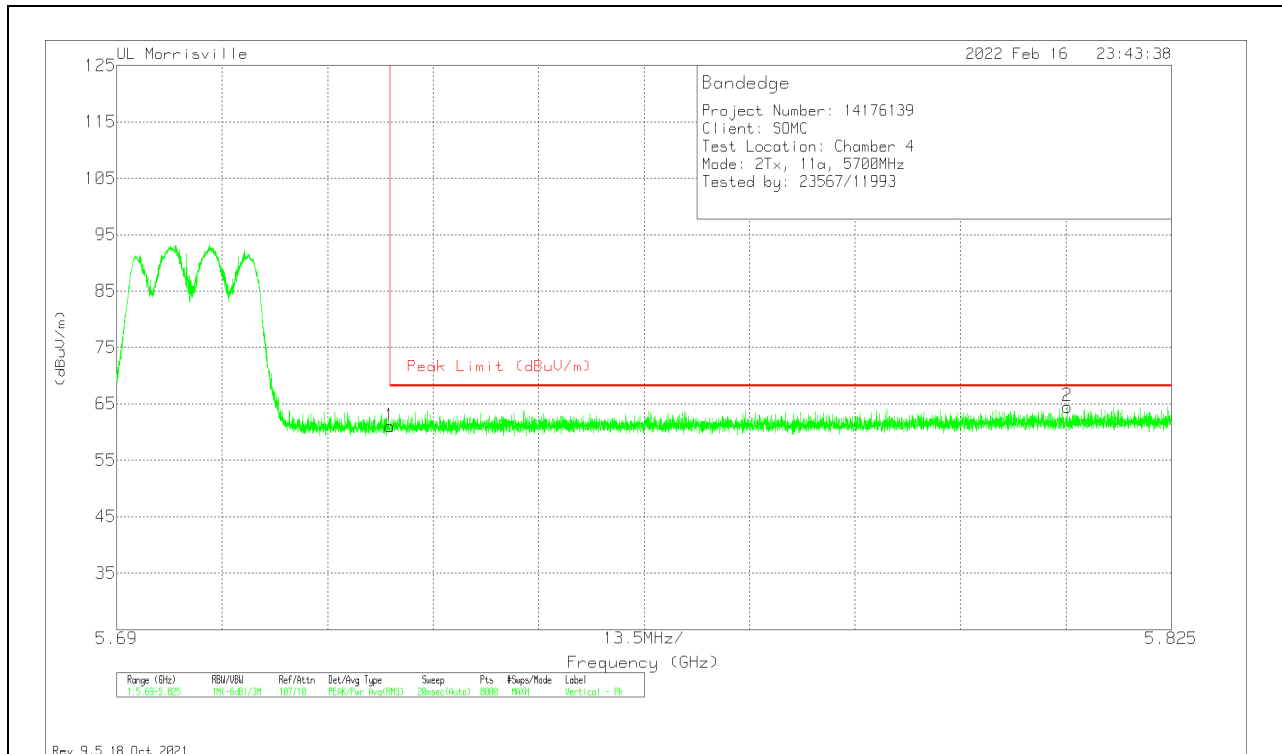
**HORIZONTAL RESULT**



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 206211 (dB/m) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|-----------------------|----------------------------|---------------------|----------------|----------------|-------------|----------|
| 1      | 5.725           | 36.58                | Pk  | 34.5          | -9.4                  | 61.68                      | 68.2                | -6.52          | 100            | 351         | H        |
| 2      | 5.7541          | 39.15                | Pk  | 34.5          | -9.3                  | 64.35                      | 68.2                | -3.85          | 100            | 351         | H        |

Pk - Peak detector

### VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 206211 (dB/m) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|-----------------------|----------------------------|---------------------|----------------|----------------|-------------|----------|
| 1      | 5.725           | 35.93                | Pk  | 34.5          | -9.4                  | 61.03                      | 68.2                | -7.17          | 350            | 374         | V        |
| 2      | 5.81168         | 39.25                | Pk  | 34.7          | -9.4                  | 64.55                      | 68.2                | -3.65          | 350            | 374         | V        |

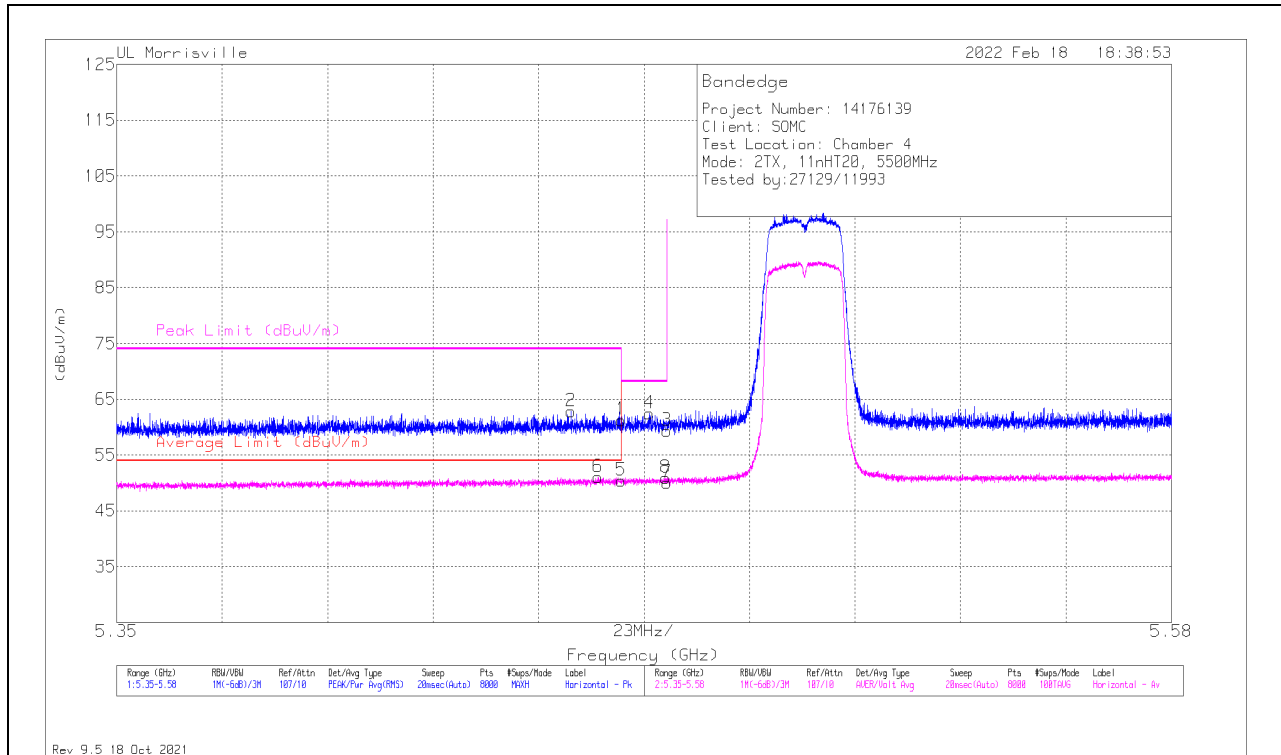
Pk - Peak detector

### 10.1.2. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.6 GHz BAND

#### 2TX Chain 0 + Chain 1 CDD MODE

#### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 206211 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | *** 5.45998     | 36.58                | Pk  | 34.4          | -9.7                   | 61.28                      | -                      | -           | 74                  | -12.72         | 91             | 143         | H        |
| 2      | *** 5.44912     | 38.19                | Pk  | 34.4          | -9.8                   | 62.79                      | -                      | -           | 74                  | -11.21         | 91             | 143         | H        |
| 5      | *** 5.45998     | 25.69                | ADV | 34.4          | -9.7                   | 50.39                      | 54                     | -3.61       | -                   | -              | 91             | 143         | H        |
| 6      | *** 5.45489     | 26.41                | ADV | 34.4          | -9.8                   | 51.01                      | 54                     | -2.99       | -                   | -              | 91             | 143         | H        |
| 4      | 5.46619         | 37.72                | Pk  | 34.4          | -9.7                   | 62.42                      | -                      | -           | 68.2                | -5.78          | 91             | 143         | H        |
| 8      | 5.4697          | 26.24                | ADV | 34.4          | -9.7                   | 50.94                      | -                      | -           | -                   | -              | 91             | 143         | H        |
| 3      | 5.46999         | 34.71                | Pk  | 34.4          | -9.7                   | 59.41                      | -                      | -           | 68.2                | -8.79          | 91             | 143         | H        |
| 7      | 5.46999         | 25.3                 | ADV | 34.4          | -9.7                   | 50                         | -                      | -           | -                   | -              | 91             | 143         | H        |

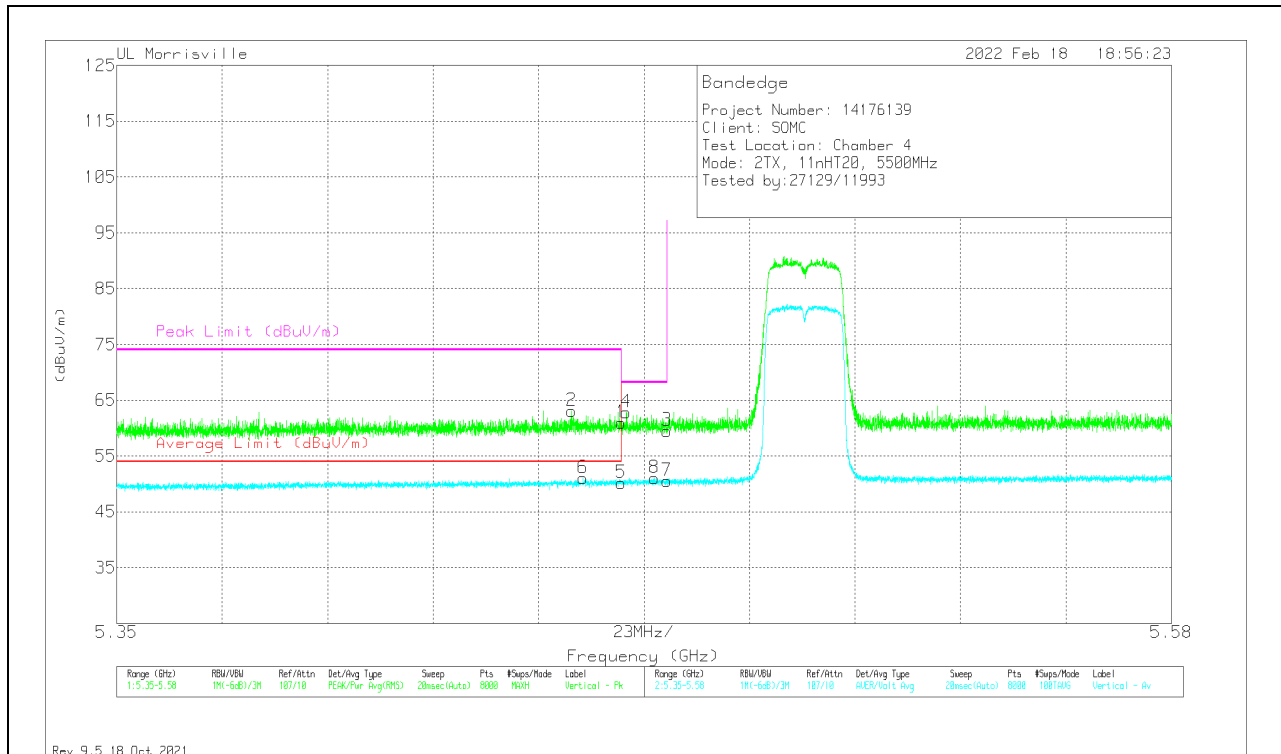
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

### VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 206211 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | *** 5.45998     | 36.26                | Pk  | 34.4          | -9.7                   | 60.96                      | -                      | -           | 74                  | -13.04         | 3              | 103         | V        |
| 2      | *** 5.44914     | 38.48                | Pk  | 34.4          | -9.8                   | 63.08                      | -                      | -           | 74                  | -10.92         | 3              | 103         | V        |
| 5      | *** 5.45998     | 25.43                | ADV | 34.4          | -9.7                   | 50.13                      | 54                     | -3.87       | -                   | -              | 3              | 103         | V        |
| 6      | *** 5.4517      | 26.42                | ADV | 34.4          | -9.8                   | 51.02                      | 54                     | -2.98       | -                   | -              | 3              | 103         | V        |
| 4      | 5.46113         | 38.11                | Pk  | 34.4          | -9.7                   | 62.81                      | -                      | -           | 68.2                | -5.39          | 3              | 103         | V        |
| 8      | 5.4672          | 26.36                | ADV | 34.4          | -9.7                   | 51.06                      | -                      | -           | -                   | -              | 3              | 103         | V        |
| 3      | 5.46999         | 34.84                | Pk  | 34.4          | -9.7                   | 59.54                      | -                      | -           | 68.2                | -8.66          | 3              | 103         | V        |
| 7      | 5.46999         | 25.84                | ADV | 34.4          | -9.7                   | 50.54                      | -                      | -           | -                   | -              | 3              | 103         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

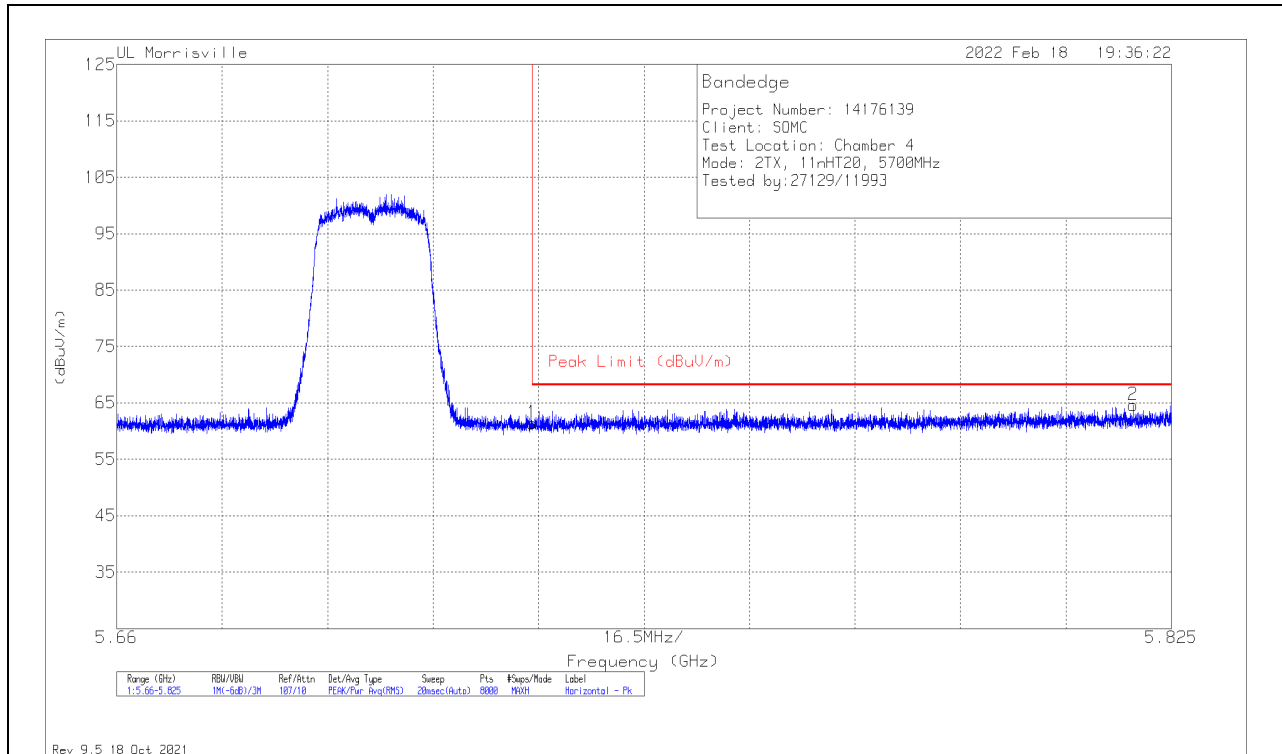
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

**BANDEDGE (HIGH CHANNEL)**

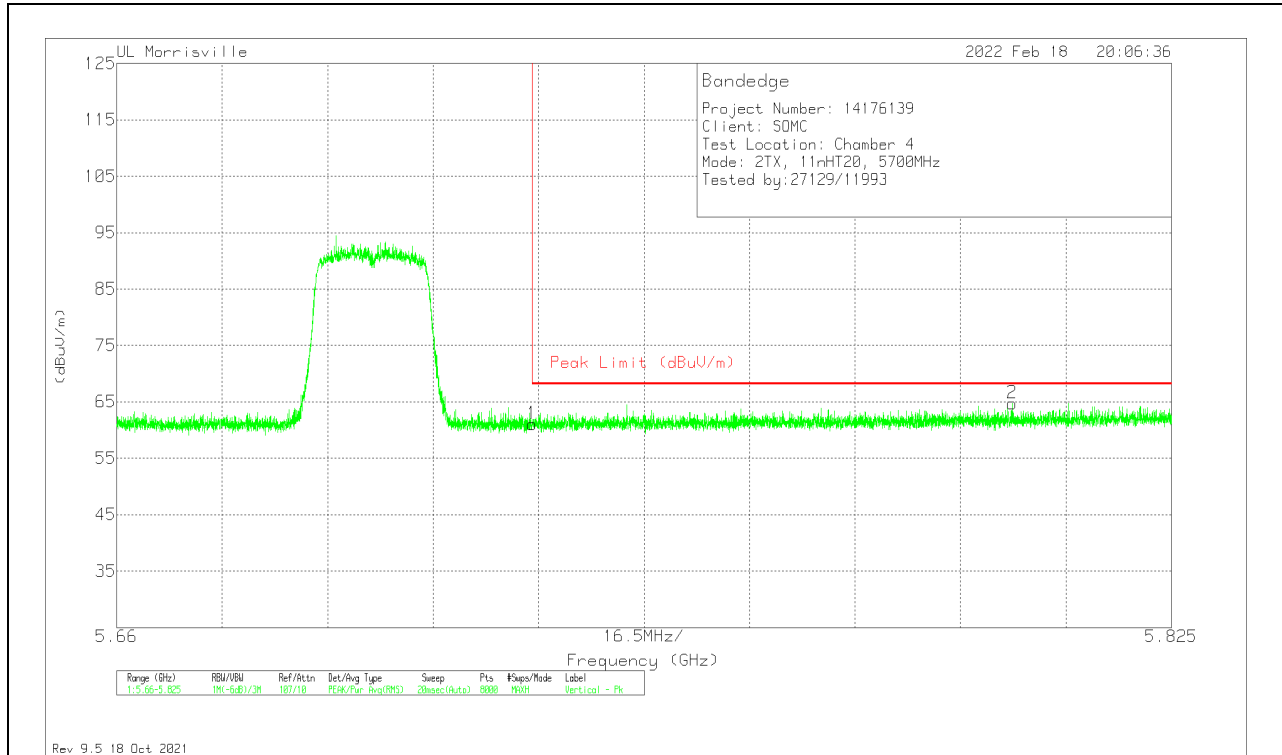
**HORIZONTAL RESULT**



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 206211 (dB/m) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|-----------------------|----------------------------|---------------------|----------------|----------------|-------------|----------|
| 1      | 5.72502         | 36.35                | Pk  | 34.5          | -9.4                  | 61.45                      | 68.2                | -6.75          | 79             | 100         | H        |
| 2      | 5.81902         | 39.28                | Pk  | 34.7          | -9.4                  | 64.58                      | 68.2                | -3.62          | 79             | 100         | H        |

Pk - Peak detector

### VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 206211 (dB/m) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|-----------------------|----------------------------|---------------------|----------------|----------------|-------------|----------|
| 1      | 5.72502         | 35.99                | Pk  | 34.5          | -9.4                  | 61.09                      | 68.2                | -7.11          | 10             | 307         | V        |
| 2      | 5.80011         | 39.47                | Pk  | 34.7          | -9.4                  | 64.77                      | 68.2                | -3.43          | 10             | 307         | V        |

Pk - Peak detector

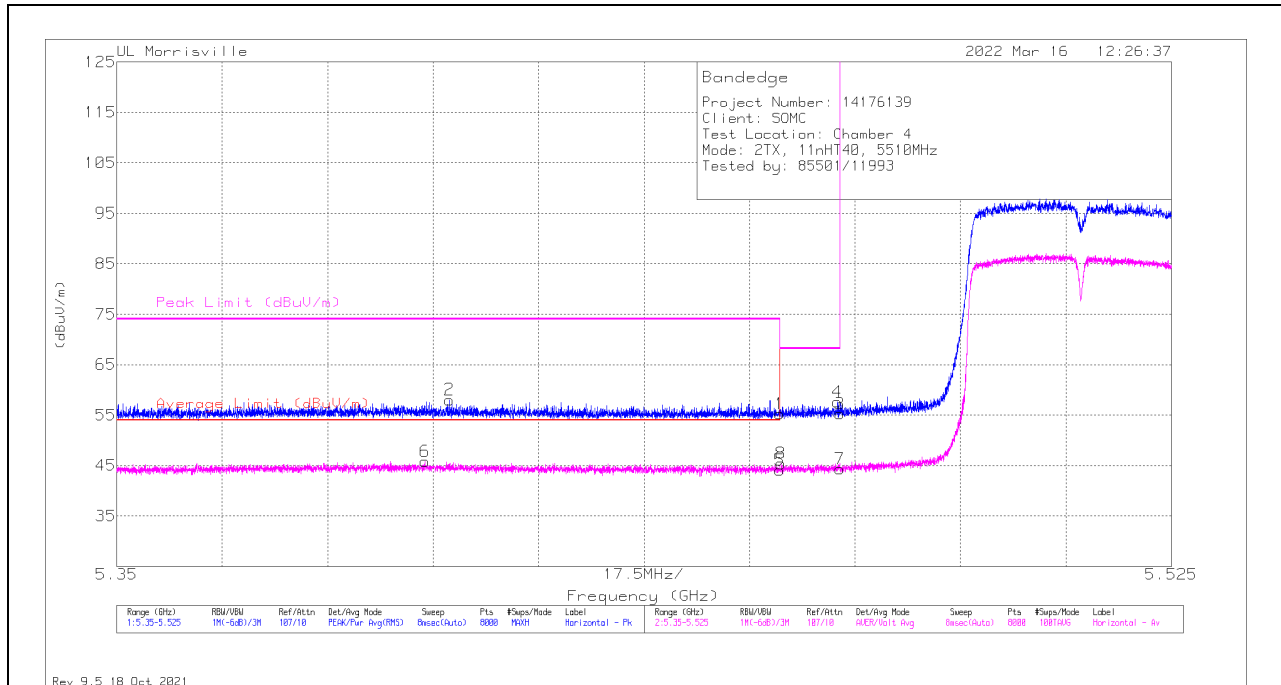


### 10.1.3. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.6 GHz BAND

#### 2TX Chain 0 + Chain 1 CDD MODE

#### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0069 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | *** 5.45998     | 30.57                | Pk  | 34.4          | -9.7                   | 55.27                      | -                      | -           | 74                  | -18.73         | 331            | 103         | H        |
| 2      | *** 5.4052      | 33.45                | Pk  | 34.4          | -9.8                   | 58.05                      | -                      | -           | 74                  | -15.95         | 331            | 103         | H        |
| 5      | *** 5.45998     | 19.39                | ADV | 34.4          | -9.7                   | 44.09                      | 54                     | -9.91       | -                   | -              | 331            | 103         | H        |
| 6      | *** 5.40113     | 21.26                | ADV | 34.4          | -9.8                   | 45.86                      | 54                     | -8.14       | -                   | -              | 331            | 103         | H        |
| 8      | 5.46022         | 20.69                | ADV | 34.4          | -9.7                   | 45.39                      | -                      | -           | -                   | -              | 331            | 103         | H        |
| 4      | 5.46954         | 32.9                 | Pk  | 34.4          | -9.7                   | 57.6                       | -                      | -           | 68.2                | -10.6          | 331            | 103         | H        |
| 3      | 5.46998         | 30.53                | Pk  | 34.4          | -9.7                   | 55.23                      | -                      | -           | 68.2                | -12.97         | 331            | 103         | H        |
| 7      | 5.46998         | 19.62                | ADV | 34.4          | -9.7                   | 44.32                      | -                      | -           | -                   | -              | 331            | 103         | H        |

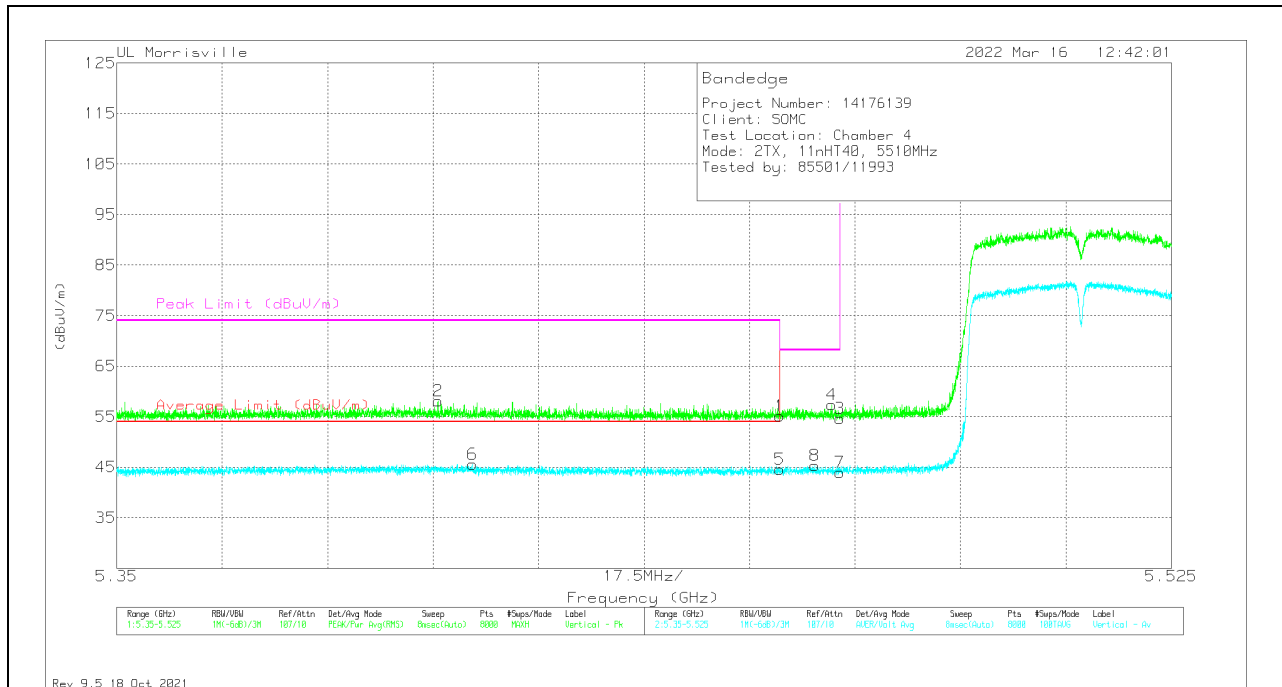
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

### VERTICAL RESULT

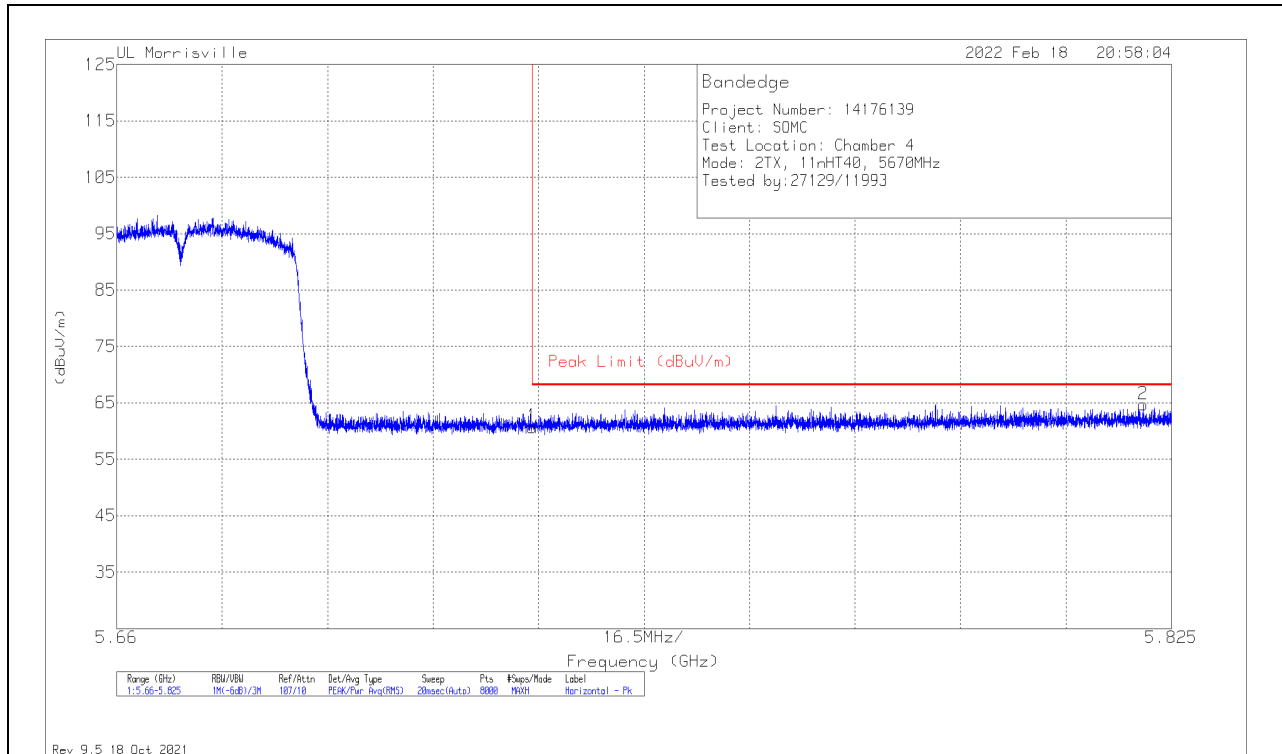


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0069 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | *** 5.45998     | 30.48                | Pk  | 34.4          | -9.7                   | 55.18                      | -                      | -           | 74                  | -18.82         | 349            | 100         | V        |
| 2      | *** 5.40329     | 33.46                | Pk  | 34.4          | -9.8                   | 58.06                      | -                      | -           | 74                  | -15.94         | 349            | 100         | V        |
| 5      | *** 5.45998     | 19.88                | ADV | 34.4          | -9.7                   | 44.58                      | 54                     | -9.42       | -                   | -              | 349            | 100         | V        |
| 6      | *** 5.40907     | 20.97                | ADV | 34.4          | -9.8                   | 45.57                      | 54                     | -8.43       | -                   | -              | 349            | 100         | V        |
| 8      | 5.46578         | 20.61                | ADV | 34.4          | -9.7                   | 45.31                      | -                      | -           | -                   | -              | 349            | 100         | V        |
| 4      | 5.46864         | 32.65                | Pk  | 34.4          | -9.7                   | 57.35                      | -                      | -           | 68.2                | -10.85         | 349            | 100         | V        |
| 3      | 5.46998         | 29.91                | Pk  | 34.4          | -9.7                   | 54.61                      | -                      | -           | 68.2                | -13.59         | 349            | 100         | V        |
| 7      | 5.46998         | 19.28                | ADV | 34.4          | -9.7                   | 43.98                      | -                      | -           | -                   | -              | 349            | 100         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 ADV - Linear Voltage Average

**BANDEDGE (HIGH CHANNEL)**

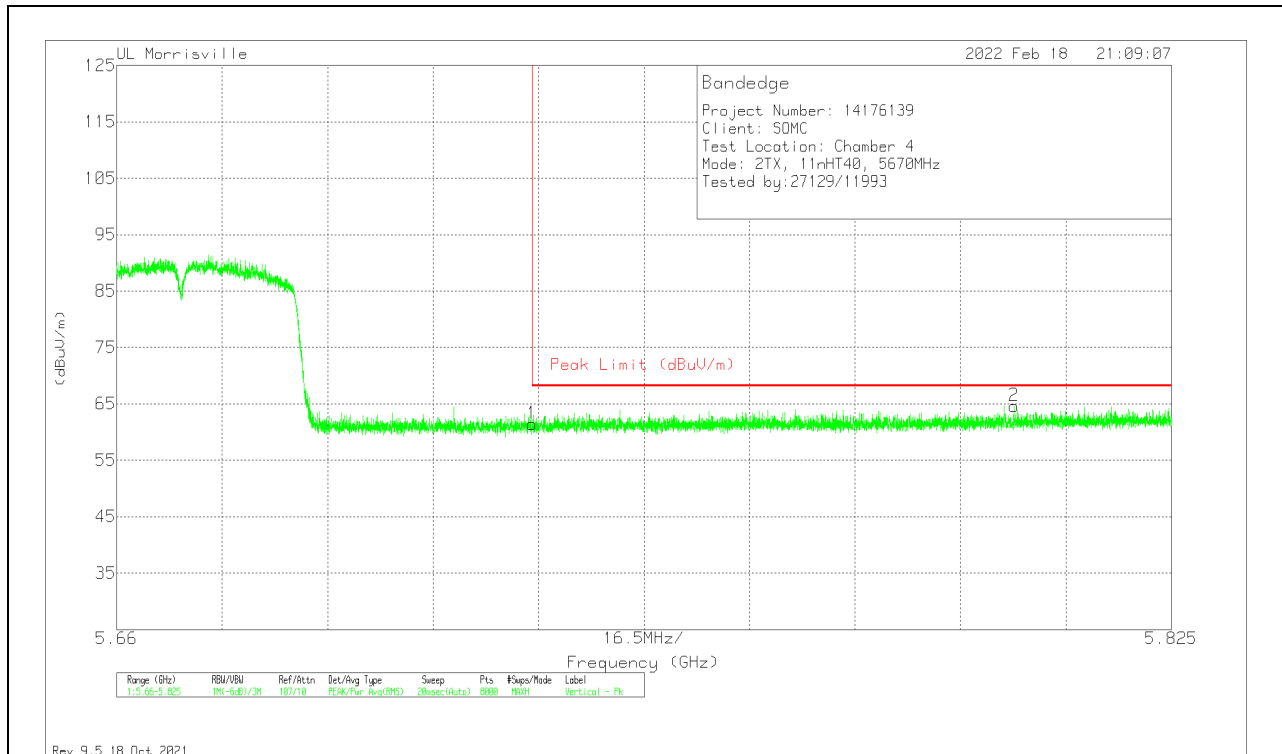
**HORIZONTAL RESULT**



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 206211 (dB/m) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|-----------------------|----------------------------|---------------------|----------------|----------------|-------------|----------|
| 1      | 5.72502         | 35.64                | Pk  | 34.5          | -9.4                  | 60.74                      | 68.2                | -7.46          | 89             | 136         | H        |
| 2      | 5.82063         | 39.47                | Pk  | 34.7          | -9.4                  | 64.77                      | 68.2                | -3.43          | 89             | 136         | H        |

Pk - Peak detector

### VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 206211 (dB/m) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|-----------------------|----------------------------|---------------------|----------------|----------------|-------------|----------|
| 1      | 5.72502         | 36.31                | Pk  | 34.5          | -9.4                  | 61.41                      | 68.2                | -6.79          | 17             | 296         | V        |
| 2      | 5.80035         | 39.3                 | Pk  | 34.7          | -9.4                  | 64.6                       | 68.2                | -3.6           | 17             | 296         | V        |

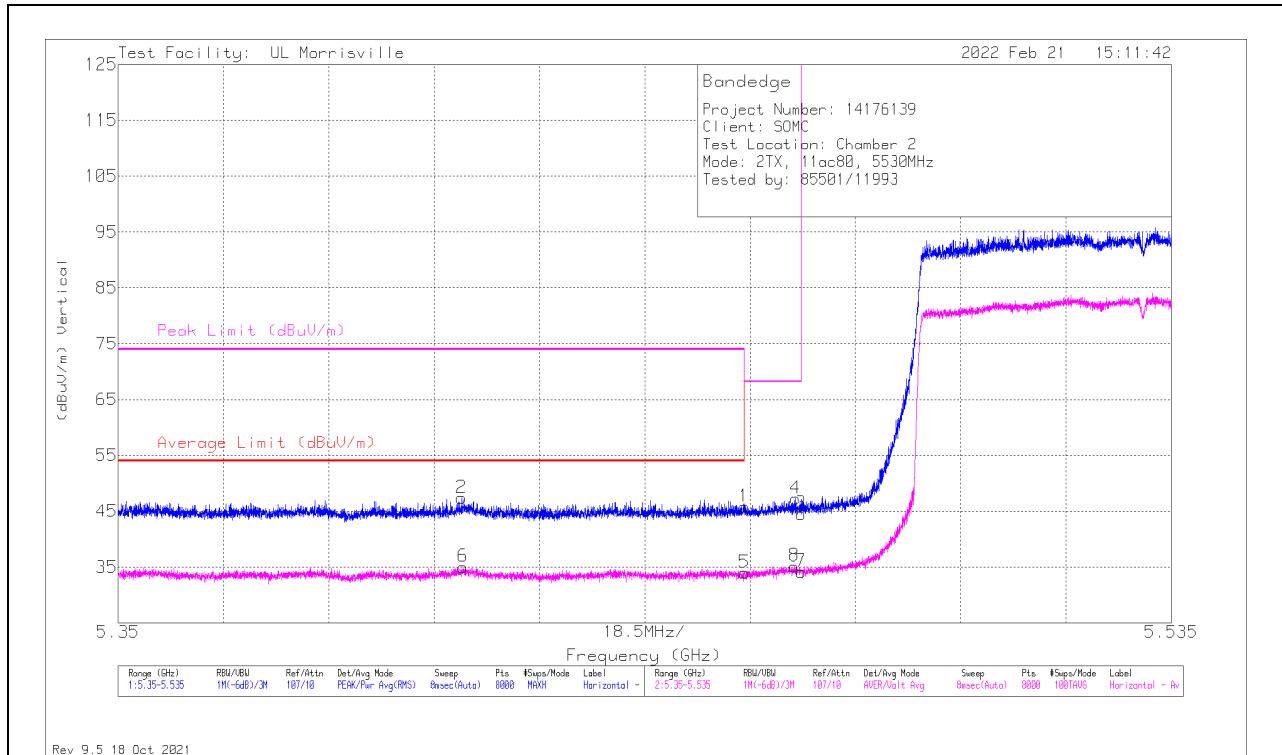
Pk - Peak detector

### 10.1.4. TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.6 GHz BAND

#### 2TX Chain 0 + Chain 1 CDD MODE

#### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0072 (dB/m) | Amp/Cbl/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * ** 5.46       | 34.51                | Pk  | 34.6          | -23.3            | 45.81                      | -                      | -           | 74                  | -28.19         | 89             | 155         | H        |
| 2      | * ** 5.41032    | 35.39                | Pk  | 34.5          | -22.5            | 47.39                      | -                      | -           | 74                  | -26.61         | 89             | 155         | H        |
| 5      | * ** 5.46       | 22.7                 | ADV | 34.6          | -23.3            | 34                         | 54                     | -20         | -                   | -              | 89             | 154         | H        |
| 6      | * ** 5.41055    | 23.03                | ADV | 34.5          | -22.5            | 35.03                      | 54                     | -18.97      | -                   | -              | 89             | 154         | H        |
| 8      | 5.46874         | 23.44                | ADV | 34.6          | -22.9            | 35.14                      | -                      | -           | -                   | -              | 89             | 154         | H        |
| 4      | 5.46895         | 35.57                | Pk  | 34.6          | -22.9            | 47.27                      | -                      | -           | 68.2                | -20.93         | 89             | 155         | H        |
| 3      | 5.46999         | 32.94                | Pk  | 34.6          | -23              | 44.54                      | -                      | -           | 68.2                | -23.66         | 89             | 155         | H        |
| 7      | 5.46999         | 22.54                | ADV | 34.6          | -23              | 34.14                      | -                      | -           | -                   | -              | 89             | 154         | H        |

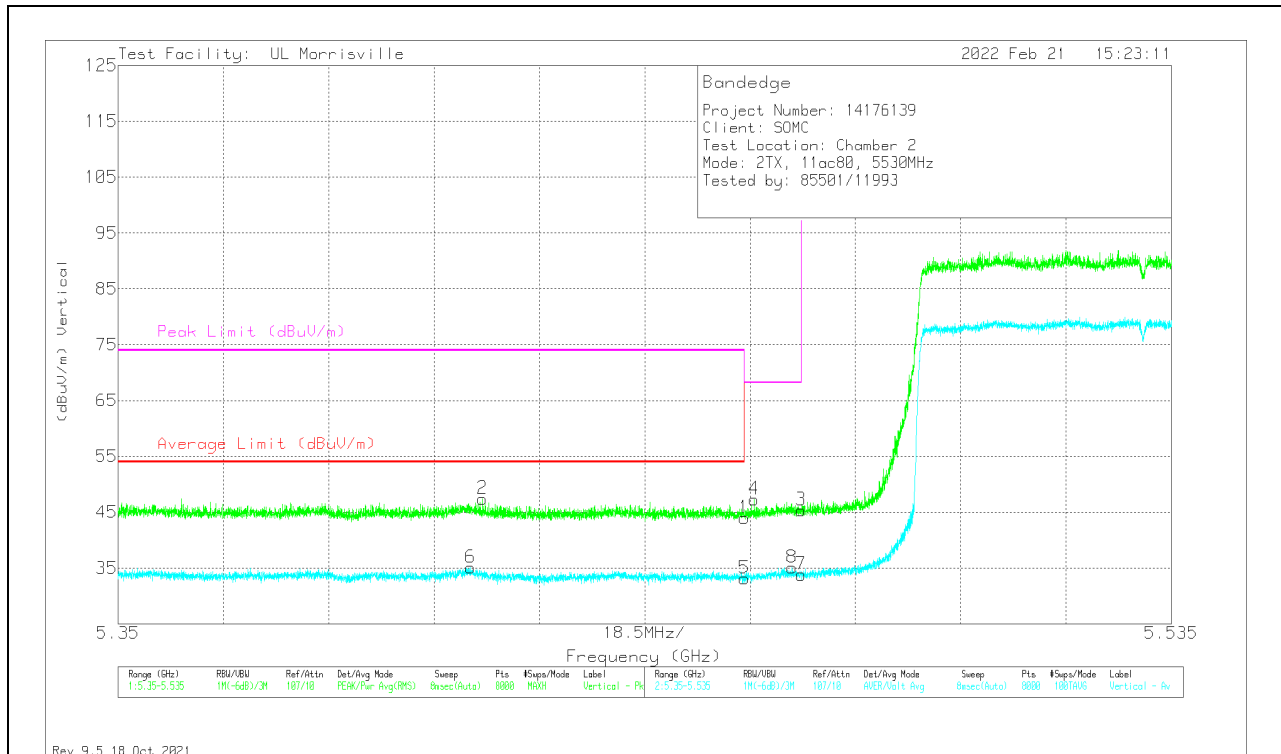
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

### VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0072 (dB/m) | Amp/Cbl/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * ** 5.46       | 32.67                | Pk  | 34.6          | -23.3            | 43.97                      | -                      | -           | 74                  | -30.03         | 7              | 278         | V        |
| 2      | * ** 5.41402    | 35.7                 | Pk  | 34.5          | -22.8            | 47.4                       | -                      | -           | 74                  | -26.6          | 7              | 278         | V        |
| 5      | * ** 5.46       | 21.83                | ADV | 34.6          | -23.3            | 33.13                      | 54                     | -20.87      | -                   | -              | 7              | 278         | V        |
| 6      | * ** 5.41194    | 22.98                | ADV | 34.5          | -22.4            | 35.08                      | 54                     | -18.92      | -                   | -              | 7              | 278         | V        |
| 4      | 5.46173         | 35.98                | Pk  | 34.6          | -23.3            | 47.28                      | -                      | -           | 68.2                | -20.92         | 7              | 278         | V        |
| 8      | 5.46837         | 23.38                | ADV | 34.6          | -22.9            | 35.08                      | -                      | -           | -                   | -              | 7              | 278         | V        |
| 3      | 5.46999         | 33.75                | Pk  | 34.6          | -23              | 45.35                      | -                      | -           | 68.2                | -22.85         | 7              | 278         | V        |
| 7      | 5.46999         | 22.24                | ADV | 34.6          | -23              | 33.84                      | -                      | -           | -                   | -              | 7              | 278         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

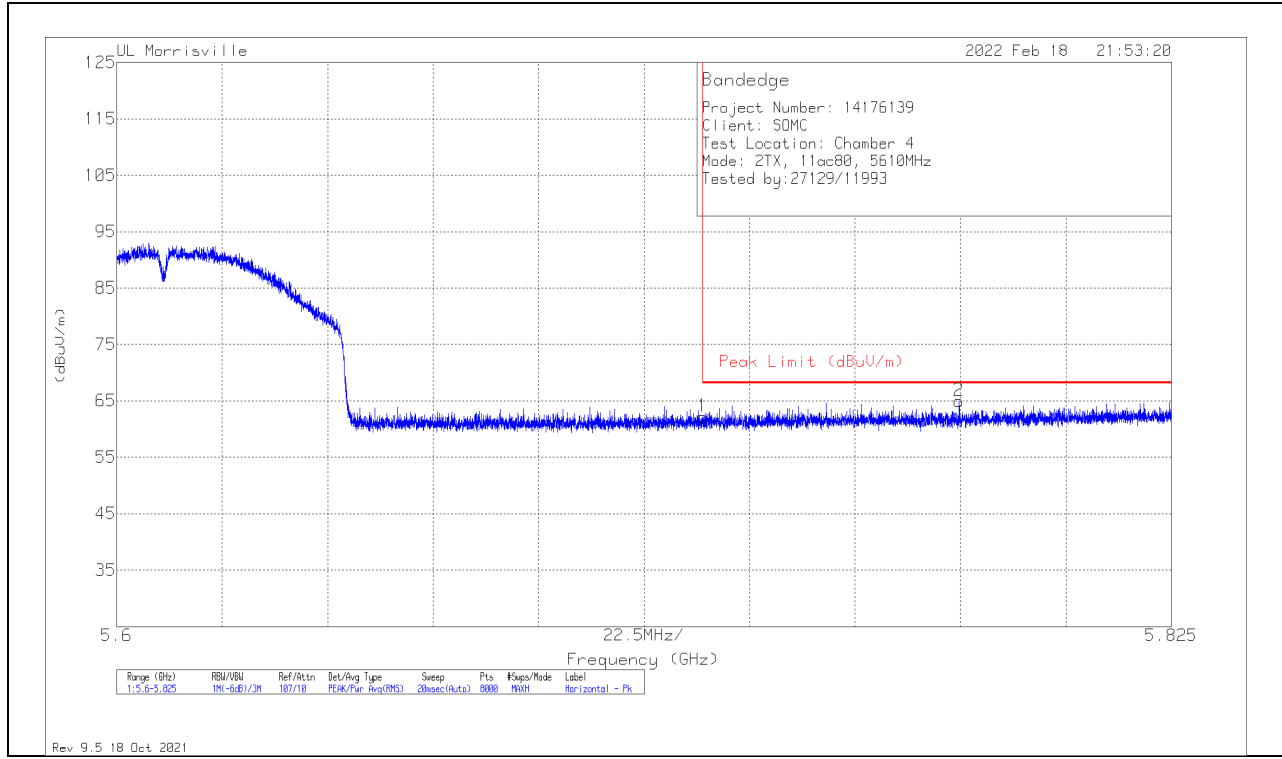
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

**BANDEDGE (HIGH CHANNEL)**

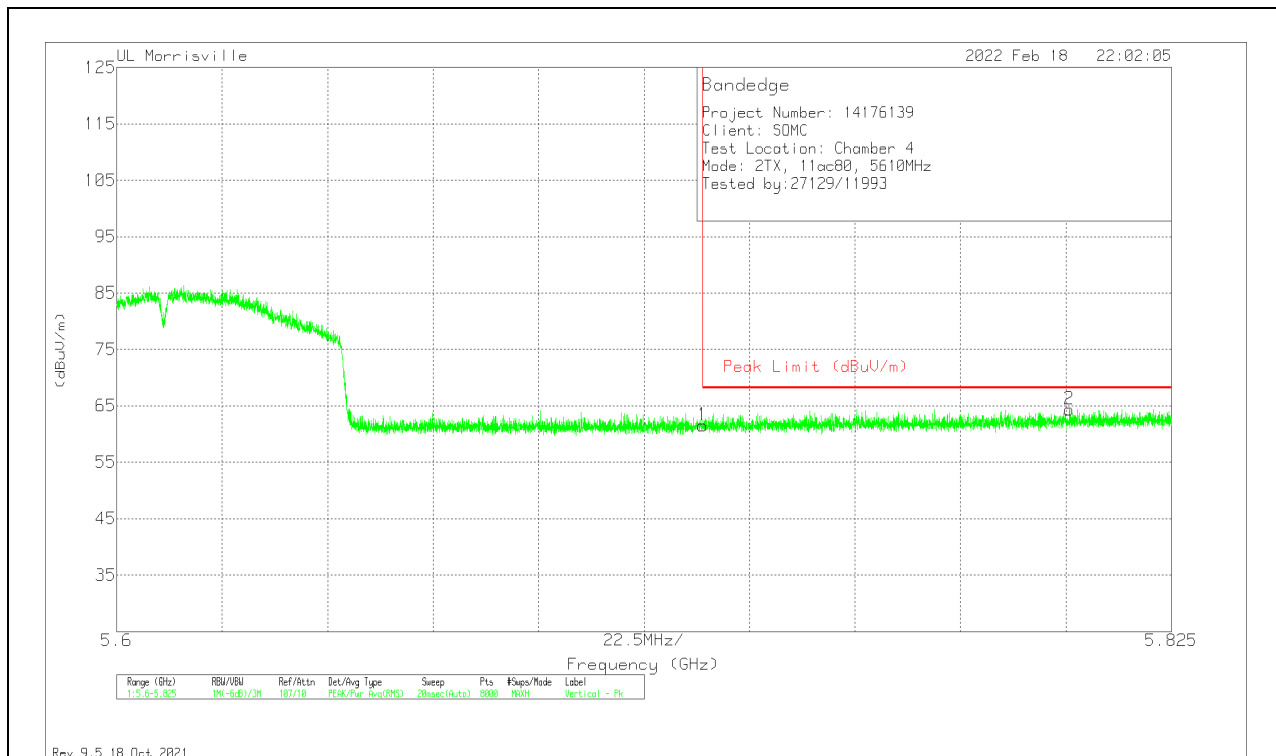
**HORIZONTAL RESULT**



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 206211 (dB/m) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|-----------------------|----------------------------|---------------------|----------------|----------------|-------------|----------|
| 1      | 5.72501         | 37.07                | Pk  | 34.5          | -9.4                  | 62.17                      | 68.2                | -6.03          | 86             | 321         | H        |
| 2      | 5.77966         | 39.73                | Pk  | 34.6          | -9.4                  | 64.93                      | 68.2                | -3.27          | 86             | 321         | H        |

Pk - Peak detector

### VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 206211 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|----------------------------|---------------------|----------------|----------------|-------------|----------|
| 1      | 5.72501         | 36.4                 | Pk  | 34.5          | -9.4                   | 61.5                       | 68.2                | -6.7           | 31             | 359         | V        |
| 2      | 5.80326         | 39.12                | Pk  | 34.7          | -9.4                   | 64.42                      | 68.2                | -3.78          | 31             | 359         | V        |

Pk - Peak detector

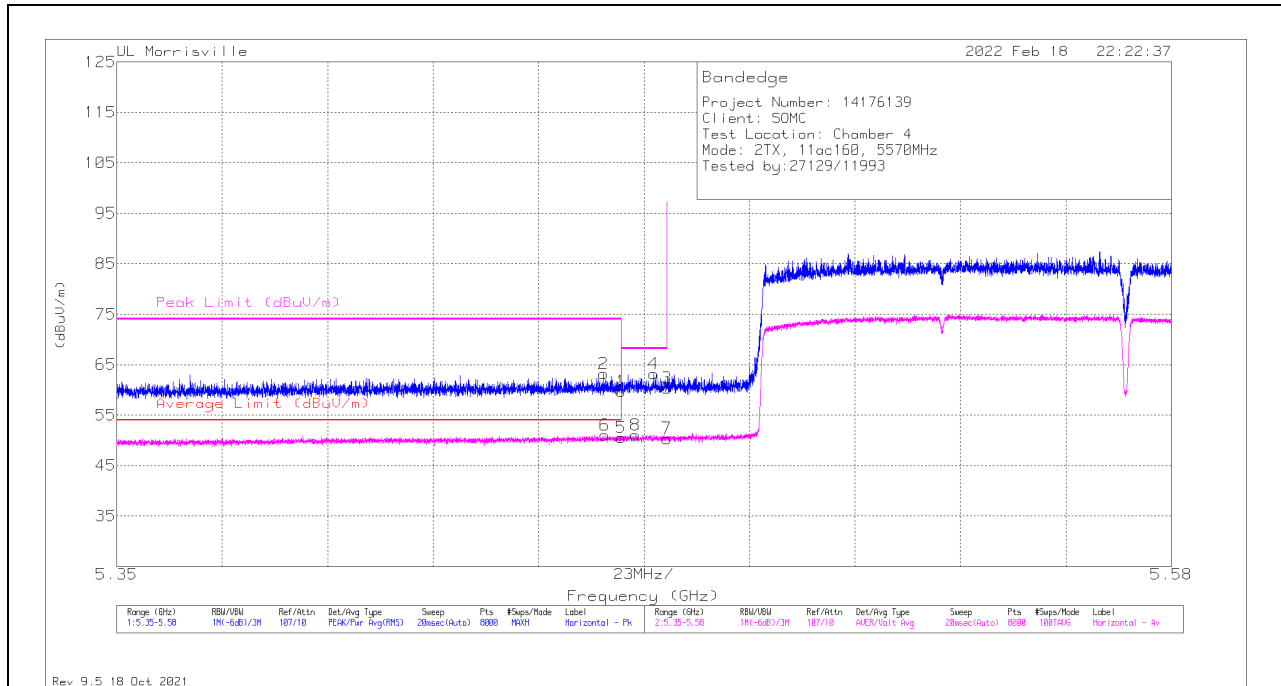


### 10.1.5. TX ABOVE 1 GHz 802.11ac VHT160 MODE IN THE 5.6 GHz BAND

#### 2TX Chain 0 + Chain 1 CDD MODE

#### BANDEDGE (LOW EDGE)

#### HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 206211 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | *** 5.45998     | 34.99                | Pk  | 34.4          | -9.7                   | 59.69                      | -                      | -           | 74                  | -14.31         | 76             | 398         | H        |
| 2      | *** 5.45619     | 38.55                | Pk  | 34.4          | -9.8                   | 63.15                      | -                      | -           | 74                  | -10.85         | 76             | 398         | H        |
| 5      | *** 5.45998     | 25.84                | ADV | 34.4          | -9.7                   | 50.54                      | 54                     | -3.46       | -                   | -              | 76             | 398         | H        |
| 6      | *** 5.45642     | 26.45                | ADV | 34.4          | -9.8                   | 51.05                      | 54                     | -2.95       | -                   | -              | 76             | 398         | H        |
| 8      | 5.4632          | 26.38                | ADV | 34.4          | -9.7                   | 51.08                      | -                      | -           | -                   | -              | 76             | 398         | H        |
| 4      | 5.46709         | 38.5                 | Pk  | 34.4          | -9.7                   | 63.2                       | -                      | -           | 68.2                | -5             | 76             | 398         | H        |
| 3      | 5.46999         | 35.64                | Pk  | 34.4          | -9.7                   | 60.34                      | -                      | -           | 68.2                | -7.86          | 76             | 398         | H        |
| 7      | 5.46999         | 25.65                | ADV | 34.4          | -9.7                   | 50.35                      | -                      | -           | -                   | -              | 76             | 398         | H        |

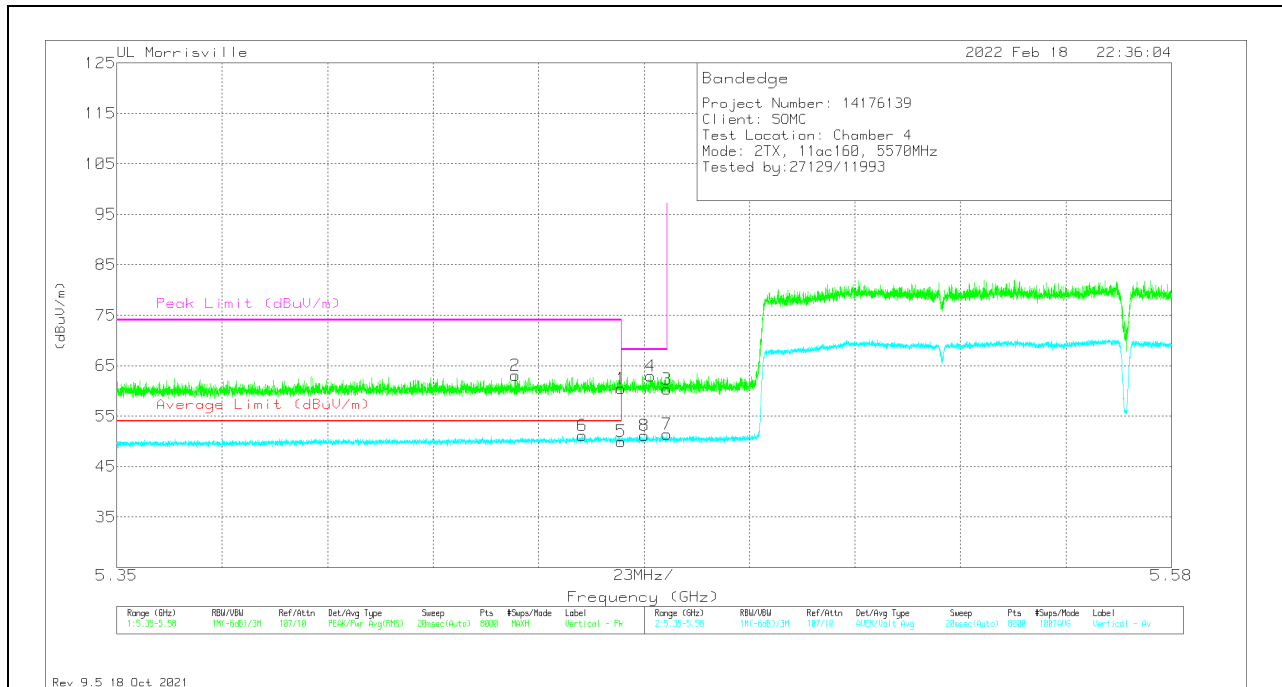
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

### VERTICAL RESULT

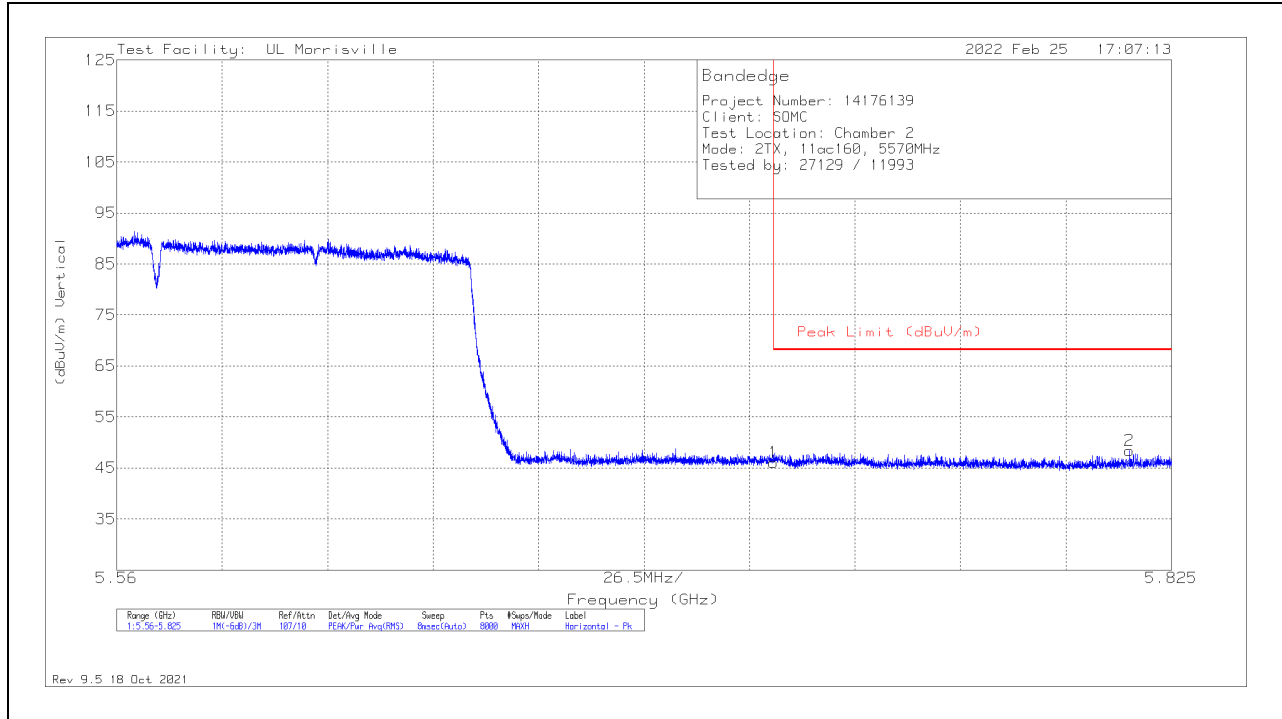


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 206211 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | *** 5.45998     | 35.78                | Pk  | 34.4          | -9.7                   | 60.48                      | -                      | -           | 74                  | -13.52         | 45             | 119         | V        |
| 2      | *** 5.43695     | 38.61                | Pk  | 34.4          | -9.9                   | 63.11                      | -                      | -           | 74                  | -10.89         | 45             | 119         | V        |
| 5      | *** 5.45998     | 25.28                | ADV | 34.4          | -9.7                   | 49.98                      | 54                     | -4.02       | -                   | -              | 45             | 119         | V        |
| 6      | *** 5.45156     | 26.54                | ADV | 34.4          | -9.8                   | 51.14                      | 54                     | -2.86       | -                   | -              | 45             | 119         | V        |
| 8      | 5.46507         | 26.44                | ADV | 34.4          | -9.7                   | 51.14                      | -                      | -           | -                   | -              | 45             | 119         | V        |
| 4      | 5.46642         | 38.26                | Pk  | 34.4          | -9.7                   | 62.96                      | -                      | -           | 68.2                | -5.24          | 45             | 119         | V        |
| 3      | 5.46999         | 35.65                | Pk  | 34.4          | -9.7                   | 60.35                      | -                      | -           | 68.2                | -7.85          | 45             | 119         | V        |
| 7      | 5.46999         | 26.67                | ADV | 34.4          | -9.7                   | 51.37                      | -                      | -           | -                   | -              | 45             | 119         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 ADV - Linear Voltage Average

**BANDEDGE (UPPER EDGE)**

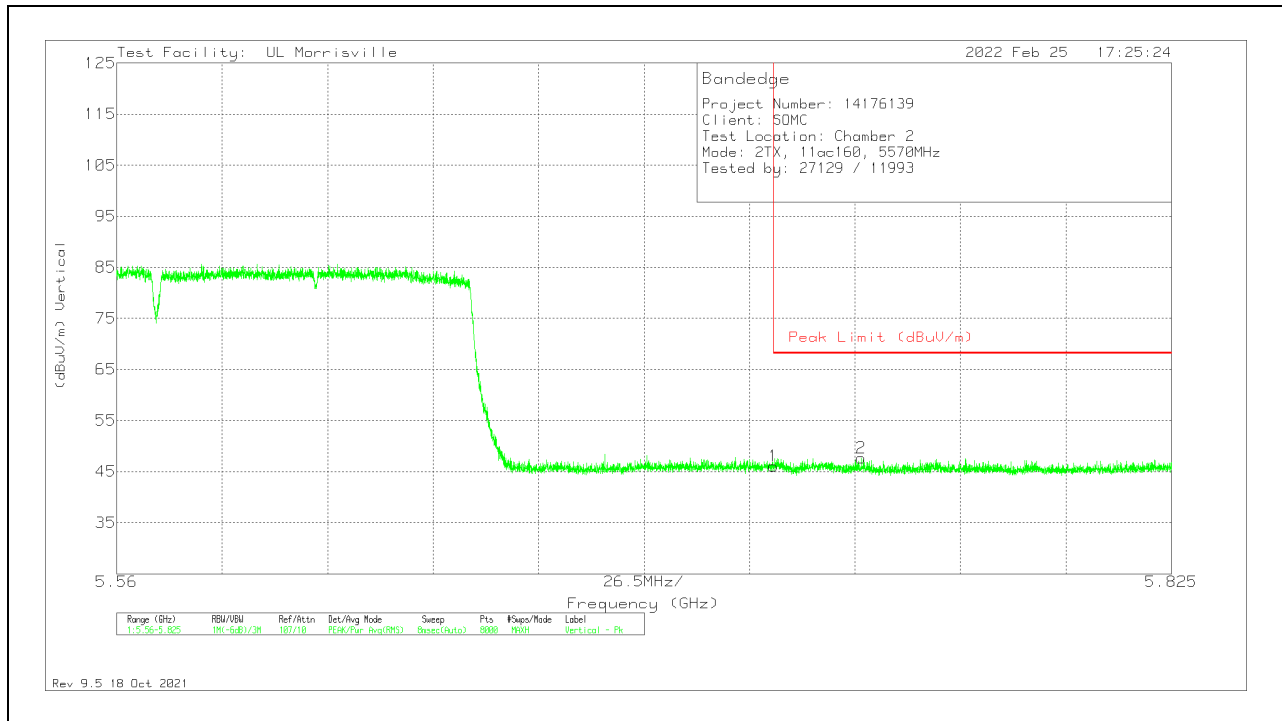
**HORIZONTAL RESULT**



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0072 (dB/m) | Amp/Cbl/Pad (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------|----------------------------|---------------------|----------------|----------------|-------------|----------|
| 1      | 5.72502         | 33.82                | Pk  | 34.8          | -22.6            | 46.02                      | 68.2                | -22.18         | 352            | 114         | H        |
| 2      | 5.81446         | 36.15                | Pk  | 35            | -22.8            | 48.35                      | 68.2                | -19.85         | 352            | 114         | H        |

Pk - Peak detector

### VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0072 (dB/m) | Amp/Cbl/Pad (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------|----------------------------|---------------------|----------------|----------------|-------------|----------|
| 1      | 5.72502         | 33.89                | Pk  | 34.8          | -22.6            | 46.09                      | 68.2                | -22.11         | 357            | 239         | V        |
| 2      | 5.74701         | 35.57                | Pk  | 34.9          | -22.8            | 47.67                      | 68.2                | -20.53         | 357            | 239         | V        |

ADV - Linear Voltage Average

## 11. SETUP PHOTOS

Please refer to R14176139-EP2 for setup photos

**END OF TEST REPORT**