



# **TEST REPORT**

**Report Number. :** R13335074-E7

**Applicant :** eero LLC  
660 3<sup>rd</sup> Street  
4<sup>th</sup> Floor  
San Francisco, CA 94107  
United States

**Model :** K010001

**FCC ID :** 2AEM4-30317

**IC :** 20631-30317

**EUT Description :** Wireless router for home and small office

**Test Standard(s) :** FCC 47 CFR PART 15 SUBPART C  
ISED RSS-247 ISSUE 2  
ISED RSS-GEN ISSUE 5

**Date Of Issue:**  
2020-09-23

**Prepared by:**  
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NVLAP Lab code: 200246-0

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## REPORT REVISION HISTORY

| Rev. | Issue Date | Revisions   | Revised By    |
|------|------------|---|---------------|
| V1   | 2020-08-10 | Initial Issue   | Niklas Haydon |
| V2   | 2020-09-11 | Updated duty cycle section                                      | Niklas Haydon |
| V3   | 2020-09-22 | Updated statement on simultaneous transmission and output power | Niklas Haydon |
| V4   | 2020-09-23 | Added statement in worst case section                           | Niklas Haydon |

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# 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** eero LLC  
660 3rd Street  
4th Floor  
San Francisco, CA 94107  
United States

**EUT DESCRIPTION:** Wireless router for home and small office

**MODEL:** K010001

**SERIAL NUMBER:** ZU12WF5, KA58-0400-4W00-00CG

**SAMPLE RECEIPT DATE:** 2020-06-02

**DATE TESTED:** 2020-06-26 to 2020-09-22

| APPLICABLE STANDARDS     |              |
|--------------------------|--------------|
| STANDARD                 | TEST RESULTS |
| CFR 47 Part 15 Subpart C | Complies     |
| ISED RSS-247 Issue 2     | Complies     |
| ISED RSS-GEN Issue 5     | Complies     |

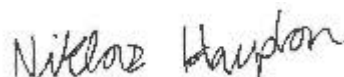
UL LLC tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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 NVLAP, NIST, or any agency of the U.S. government.

Approved & Released For  
UL Verification Services Inc. By:

Prepared By:



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## 2. TEST RESULTS SUMMARY

| FCC Clause     | ISED Clause       | Requirement                  | Result                  | Comment                              |
|----------------|-------------------|------------------------------|-------------------------|--------------------------------------|
| See Comment    |                   | Duty Cycle                   | Reporting purposes only | ANSI C63.10 Section 11.6.            |
| -              | RSS-GEN 6.7       | 99% OBW                      | Reporting purposes only | ANSI C63.10 Section 6.9.3.           |
| 15.247 (a) (2) | RSS-247 5.2 (a)   | 6dB BW                       | Compliant               | None.                                |
| 15.247 (b) (3) | RSS-247 5.4 (d)   | Output Power                 | Compliant               | None.                                |
| See Comment    |                   | Average power                | Reporting purposes only | Per ANSI C63.10, Section 11.9.2.3.2. |
| 15.247 (e)     | RSS-247 5.2 (b)   | PSD                          | Compliant               | None.                                |
| 15.247 (d)     | RSS-247 5.5       | Conducted Spurious Emissions | Compliant               | None.                                |
| 15.209, 15.205 | RSS-GEN 8.9, 8.10 | Radiated Emissions           | Compliant               | None.                                |
| 15.207         | RSS-Gen 8.8       | AC Mains Conducted Emissions | Compliant               | None.                                |

### 3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.10-2013, KDB 558074 D01 15.247 Meas Guidance v05r02, KDB 414788 D01 Radiated Test Site v01r01 RSS-GEN Issue 5, and RSS-247 Issue 2.

### 4. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 12 Laboratory Drive, Research Triangle Park, NC 27709, USA and 2800 Perimeter Park Dr., Suite B, Morrisville, NC 27560, USA. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

| 12 Laboratory Dr.                                 | 2800 Perimeter Park Dr.                           |
|---|---|
| <b>Site Code: 2180C</b>                           |   |
| <input type="checkbox"/> Chamber A RTP            | <input checked="" type="checkbox"/> North Chamber |
| <input checked="" type="checkbox"/> Chamber C RTP | <input type="checkbox"/> South Chamber            |

The above test sites and facilities are covered under FCC Test Firm Registration # 703469. Chambers above are covered under Industry Canada company address and respective code.

UL LLC (RTP) is accredited by NVLAP, Laboratory Code 200246-0



## 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                                | UNCERTAINTY                 |
|--|-----------------------------|
| Radio Frequency (Spectrum Analyzer)      | 141.2 Hz                    |
| Occupied Channel Bandwidth               | 2.00%                       |
| 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                  | 4.88 dB                     |
| Conducted Emissions (0.150-30MHz) - LISN | 3.07 dB                     |
| Temperature                              | 2.26°C                      |
| Humidity                                 | 6.79%                       |
| DC Supply voltages                       | 1.70%                       |
| Time                                     | 3.39%                       |

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

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## 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 wireless router for home and small office.

### 6.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

#### 2.4GHz BAND

| Frequency Range (MHz) | Mode             | Output Power (dBm) | Output Power (mW) |
|-----------------------|------------------|--------------------|-------------------|
| <b>2Tx</b>            |                  |                    |                   |
| 2412 - 2462           | 802.11b CDD      | 29.81              | 957.19            |
| 2412 - 2462           | 802.11g CDD      | 26.81              | 479.73            |
| 2412 - 2462           | 802.11n HT20 CDD | 26.63              | 460.26            |
| 2422 - 2452           | 802.11n HT40 CDD | 27.65              | 582.10            |

### 6.3. DESCRIPTION OF AVAILABLE ANTENNAS

| Frequency Range  | Max Gain (dBi) |
|------------------|----------------|
| 2.4 GHz wifi CH0 | 4.3            |
| 2.4 GHz wifi CH1 | 5.1            |

**NOTE:**

Antenna 1 = Chain 0 = ANT3 = CH0  
Antenna 2 = Chain 1 = ANT6 = CH1

### 6.4. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was eeroQSDK version builder@4162cb4b0759.  
The test utility software used during testing was QRCT v4.0.00163.0.

### 6.5. WORST-CASE CONFIGURATION AND MODE

Radiated emissions below 1GHz, above 18GHz, and power line conducted emission were performed with the EUT set to transmit at the channel and data rate with highest power spectral density across all data rates as worst-case scenario.

Band edge and radiated emissions between 1GHz and 18GHz were performed with the EUT set to transmit at the highest power on low, middle and high channels.

The conducted power was lowered after the radiated emissions was performed, therefore the radiated emissions data is considered worst case.

The EUT only operates in one orientation X, therefore, all final radiated testing was performed with the EUT in X orientation.

Worst-case data rates were:

802.11b mode: Short 2 Mbps  
802.11g mode: 6 Mbps  
802.11n HT20mode: MCS0  
802.11n HT40mode: MCS0

Simultaneous transmission of the following combinations was investigated and there were not any non-conformances found:

802.15.4 radio, 2.4 WLAN radio, and 5.8 WLAN radio  
BLE radio, 2.4 WLAN radio, and 5.8 WLAN radio

## 6.6. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

| Support Equipment List |              |                |               |        |
|------------------------|--------------|----------------|---------------|--------|
| Description            | Manufacturer | Model          | Serial Number | FCC ID |
| Laptop PC              | Dell         | Latitude E6430 | J29SNX1       | N/A    |
| Laptop PC              | Dell         | Latitude E5450 | HRR5N72       | N/A    |
| AC adapter (EUT)       | Foxlink      | C210001        | A019F0000171  | N/A    |
| AC adapter (EUT)       | RF Tech      | C210001        | A027A0000361  | N/A    |

### I/O CABLES

| I/O Cable List |       |                      |                 |            |                  |  |
|----------------|-------|----------------------|-----------------|------------|------------------|--|
| Cable No.      | Port  | # of Identical Ports | Connector Type  | Cable Type | Cable Length (m) | Remarks                                      |
| 1              | DC In | 1                    | USB-C           | Unshielded | 1.5              | Cable captured to AC power supply            |
| 2              | LAN   | 2                    | RJ45-unshielded | Unshielded | 15               | Includes 1.7m cable that accompanied the EUT |

### TEST SETUP

The EUT is connected to a test laptop during the tests. Test software exercised the radio card.

### SETUP DIAGRAMS

Please refer to R13335074-EP1 for setup diagrams.

## 7. MEASUREMENT METHOD

On Time and Duty Cycle: ANSI C63.10-2013 Section 11.6.

6 dB BW: ANSI C63.10 Subclause -11.8.1

Occupied BW (99%): ANSI C63.10-2013 Section 6.9.3

Output Power: ANSI C63.10 Subclause -11.9.1.3 Method PKPM1 Peak-reading power meter

Output Power: ANSI C63.10 Subclause -11.9.2.3.2 Method AVGPM-G (Measurement using a gated RF average-reading power meter)

PSD: ANSI C63.10 Subclause -11.10.2 Method PKPSD (peak PSD)

Emissions in non-restricted frequency bands: ANSI C63.10 Subclause -11.11 and 6.10.4

Emissions in restricted frequency bands: ANSI C63.10 Subclause -11.12.1 and 6.10.5

General Radiated Emissions: ANSI C63.10:2013 Sections 6.3 – 6.6

AC Power Line Conducted Emissions: ANSI C63.10-2013, Section 6.2.

## 8. TEST AND MEASUREMENT EQUIPMENT

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

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

| Equip. ID     | Description                      | Manufacturer         | Model Number | Last Cal.   | Next Cal.  |
|---------------|----------------------------------|----------------------|--------------|-------------|------------|
|               | <b>0.009-30MHz</b>               | <b>(Loop Ant.)</b>   |              |             |            |
| AT0079        | Active Loop Antenna              | ETS-Lindgren         | 6502         | 2019-08-08  | 2020-08-08 |
|               | <b>30-1000 MHz</b>               |                      |              |             |            |
| AT0073        | Hybrid Broadband Antenna         | Sunol Sciences Corp. | JB3          | 2019-008-08 | 2020-08-08 |
|               | <b>18-40 GHz</b>                 |                      |              |             |            |
| AT0076        | Horn Antenna, 18-26.5GHz         | ARA                  | MWH-1826/B   | 2019-11-07  | 2020-11-07 |
|               | <b>Gain-Loss Chains</b>          |                      |              |             |            |
| N-SAC01       | Gain-loss string: 0.009-30MHz    | Various              | Various      | 2020-04-24  | 2021-04-24 |
| N-SAC02       | Gain-loss string: 25-1000MHz     | Various              | Various      | 2020-04-24  | 2021-04-24 |
| N-SAC04       | Gain-loss string: 18-40GHz       | Various              | Various      | 2020-03-22  | 2021-03-22 |
|               | <b>Receiver &amp; Software</b>   |                      |              |             |            |
| SA0025        | Spectrum Analyzer                | Agilent              | N9030A       | 2020-03-17  | 2021-03-17 |
| SA0027        | Spectrum Analyzer                | Agilent              | N9030A       | 2020-06-10  | 2021-06-10 |
| SOFTEMI       | EMI Software                     | UL                   | Version 9.5  | NA          | NA         |
|               | <b>Additional Equipment used</b> |                      |              |             |            |
| s/n 181474341 | Environmental Meter              | Fisher Scientific    | 15-077-963   | 2018-07-27  | 2020-07-27 |
| s/n 200037635 | Environmental Meter              | Fisher Scientific    | 06-662-4     | 2020-1-22   | 2022-01-22 |

### Test Equipment Used - Antenna Port Conducted Measurement Equipment

| Equipment ID        | Description                               | Manufacturer          | Model Number                    | Last Cal.  | Next Cal.  |
|---------------------|---|-----------------------|---------------------------------|------------|------------|
| 72822               | Spectrum Analyzer                         | Agilent Technologies  | E4446A                          | 2020-01-02 | 2021-01-02 |
| PWM003              | RF Power Meter                            | Keysight Technologies | N1911A                          | 2019-08-23 | 2020-08-23 |
| PWS002              | Peak and Avg Power Sensor, 50MHz to 18GHz | Keysight Technologies | E1921A                          | 2019-08-23 | 2020-08-23 |
| PWM001              | RF Power Meter                            | Keysight Technologies | N1912A                          | 2020-07-17 | 2021-07-17 |
| PWS001              | Peak and Avg Power Sensor, 50MHz to 18GHz | Keysight Technologies | N1921A                          | 2020-05-27 | 2020-05-27 |
| SN 181562858        | Environmental Meter                       | Fisher Scientific     | 14-650-118                      | 2018-09-04 | 2020-09-04 |
| HI0090 SN 161016511 | Environmental Meter                       | Fisher Scientific     | 15-077-963                      | 2020-06-26 | 2021-06-26 |
| SOFTEMI             | EMC Software                              | UL                    | Version 2020.3.11 and 2020.4.17 | NA         | NA         |

Test Equipment Used - Radiated Disturbance Emissions (E-field) – Chamber C

| Equip. ID      | Description                      | Manufacturer    | Model Number | Last Cal.  | Next Cal.  |
|----------------|----------------------------------|-----------------|--------------|------------|------------|
|                | <b>30-1000 MHz</b>               |                 |              |            |            |
| AT0081         | Hybrid Broadband Antenna         | Sunar RF Motion | JB3          | 2019-11-20 | 2020-11-20 |
|                | <b>1-18 GHz</b>                  |                 |              |            |            |
| AT0062         | HORN Antenna                     | ETS-Lindgren    | 3117         | 2020-01-30 | 2021-01-30 |
|                | <b>Gain-Loss Chains</b>          |                 |              |            |            |
| C-SAC01        | Gain-loss string: 0.009-1000MHz  | Various         | Various      | 2020-03-03 | 2021-03-03 |
| C-SAC02        | Gain-loss string: 1-18GHz        | Various         | Various      | 2020-03-03 | 2021-03-03 |
| C-SAC02 Path 7 | Gain-loss string 1-7GHz          | Various         | Various      | 2020-04-03 | 2021-04-03 |
|                | <b>Receiver &amp; Software</b>   |                 |              |            |            |
| SA0018         | Spectrum Analyzer                | Agilent         | PXA (N9030A) | 2020-03-02 | 2021-03-02 |
| SOFTEMI        | EMI Software                     | UL              | Version 9.5  | NA         | NA         |
|                | <b>Additional Equipment used</b> |                 |              |            |            |
| HI0085         | Temp/Humid/Pressure Meter        | EXTECH          | SD700        | 2020-04-20 | 2021-04-30 |
| HPF012         | Filter                           | Micro-Tronics   | HPM18129     | 2020-02-19 | 2021-01-19 |

Test Equipment Used - Line-Conducted Emissions – Voltage (Morrisville – Conducted 1)

| Equipment ID       | Description   | Manufacturer        | Model Number              | Last Cal.  | Next Cal.  |
|--------------------|---|---------------------|---------------------------|------------|------------|
| CBL087             | Coax cable, RG223, N-male to BNC-male, 20-ft.                 | Pasternack          | PE3W06143-240             | 2020-03-26 | 2021-03-26 |
| s/n 181562858      | Environmental Meter   | Fisher Scientific   | 14-650-118                | 2018-09-04 | 2020-09-04 |
| HI0091             | Environmental Meter   | Fisher Scientific   | 14-650-118                | 2020-06-26 | 2021-06-26 |
| LISN003            | LISN, 50-ohm/50-uH, 2-conductor, 25A                          | Fischer Custom Com. | FCC-LISN-50-25-2-01-550V  | 2019-08-19 | 2020-08-19 |
| 75141 (PRE0101521) | EMI Test Receiver 9kHz-7GHz                                   | Rohde & Schwarz     | ESCI 7                    | 2019-08-20 | 2020-08-20 |
| ATA222             | Transient Limiter, 0.009-100MHz                               | Electro-Metrics     | EM-7600                   | 2020-03-26 | 2021-03-26 |
| PS215              | AC Power Source   | Elgar               | CW2501M (s/n 1523A02397)  | NA         | NA         |
| SOFTEMI            | EMI Software  | UL                  | Version 9.5               | NA         | NA         |
| CDECABLE001        | ANSI C63.4 1m extension cable.                                | UL                  | Per Annex B of ANSI C63.4 | 2019-07-10 | 2020-07-10 |
| CDECABLE001        | ANSI C63.4 1m extension cable.                                | UL                  | Per Annex B of ANSI C63.4 | 2020-08-08 | 2021-08-08 |
| LISN008            | LISN, 50-ohm/50-uH, 2-conductor, 25A (For support gear only.) | Solar Electronics   | 8012-50-R-24-BNC          | 2019-07-10 | 2020-07-10 |



Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville - South Chamber)

| Equip. ID     | Description                                       | Manufacturer         | Model Number | Last Cal.  | Next Cal.  |
|---------------|---|----------------------|--------------|------------|------------|
|               | <b>0.009-30MHz</b>                                | <b>(Loop Ant.)</b>   |              |            |            |
| AT0079        | Active Loop Antenna                               | ETS-Lindgren         | 6502         | 2019-08-08 | 2020-08-08 |
|               | <b>30-1000 MHz</b>                                |                      |              |            |            |
| AT0073        | Hybrid Broadband Antenna                          | Sunol Sciences Corp. | JB3          | 2019-08-08 | 2020-08-08 |
|               | <b>1-18 GHz</b>                                   |                      |              |            |            |
| AT0078        | Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz | ETS Lindgren         | 3117         | 2019-10-28 | 2020-10-28 |
|               | <b>Gain-Loss Chains</b>                           |                      |              |            |            |
| S-SAC01       | Gain-loss string: 0.009-30MHz                     | Various              | Various      | 2020-07-10 | 2021-07-10 |
| S-SAC02       | Gain-loss string: 25-1000MHz                      | Various              | Various      | 2020-07-10 | 2021-07-10 |
| S-SAC03       | Gain-loss string: 1-18GHz                         | Various              | Various      | 2020-05-15 | 2021-05-15 |
|               | <b>Receiver &amp; Software</b>                    |                      |              |            |            |
| 197954        | Spectrum Analyzer                                 | Rohde & Schwarz      | ESW44        | 2020-03-27 | 2021-03-27 |
| SOFTEMI       | EMI Software                                      | UL                   | Version 9.5  | NA         | NA         |
|               | <b>Additional Equipment used</b>                  |                      |              |            |            |
| s/n 181474409 | Environmental Meter                               | Fisher Scientific    | 15-077-963   | 2018-07-27 | 2020-07-27 |
| s/n 200037610 | Environmental Meter                               | Fisher Scientific    | 06-662-4     | 2020-1-22  | 2022-01-22 |

NOTES:

1. For equipment listed above that was calibrated during the testing period, please note the equipment was used for testing after calibration.
2. For equipment listed above that has a calibration due date during the testing period, the testing was completed before the equipment expiration date.
3. Exception to 1. and 2. CDECABLE001 testing was performed between characterization. CDECABLE001 was found to still be within specification.

## 9. ANTENNA PORT TEST RESULTS

### 9.1. ON TIME AND DUTY CYCLE

#### LIMITS

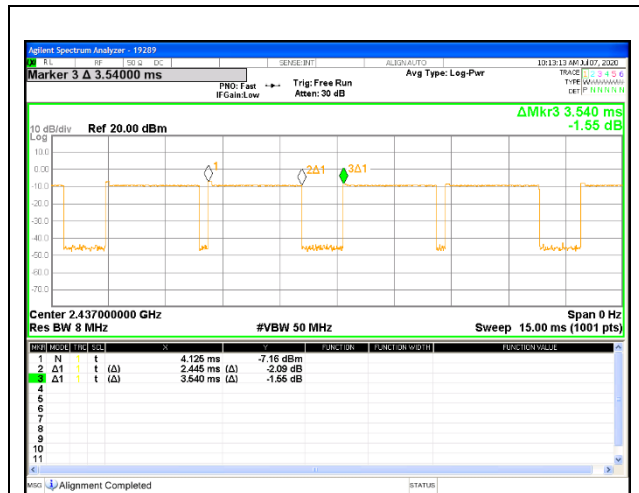
None; for reporting purposes only.

#### PROCEDURE

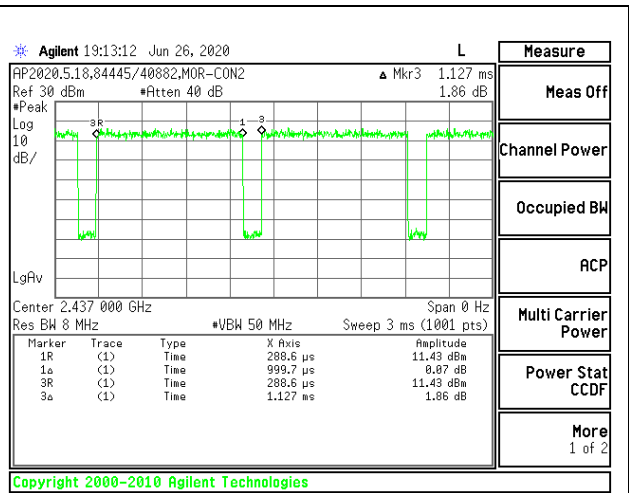
KDB 558074 Zero-Span Spectrum Analyzer Method.

#### ON TIME AND DUTY CYCLE RESULTS

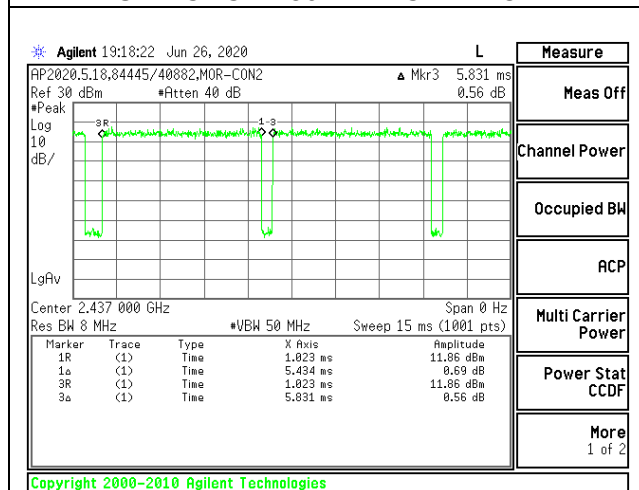
| Mode                  | ON Time<br>B<br>(msec) | Period<br>(msec) | Duty Cycle<br>x<br>(linear) | Duty Cycle<br>(%) | Duty Cycle<br>Correction<br>Factor<br>(dB) RMS | Duty Cycle<br>Correction<br>Factor<br>(dB) Voltage | 1/B<br>Minimum VBW<br>(kHz) |
|-----------------------|------------------------|------------------|-----------------------------|-------------------|--|--|-----------------------------|
| <b>2.4GHz Band</b>    |                        |                  |                             |                   |  |  |                             |
| 802.11b 2TX, CDD      | 2.445                  | 3.540            | 0.691                       | 69.07%            | 1.61   | 3.21   | 0.409                       |
| 802.11g 2TX, CDD      | 1.000                  | 1.127            | 0.887                       | 88.70%            | 0.52   | 1.04   | 1.000                       |
| 802.11n HT20 2TX, CDD | 5.434                  | 5.831            | 0.932                       | 93.19%            | 0.31   | 0.61   | 0.184                       |
| 802.11n HT40 2TX, CDD | 5.370                  | 5.655            | 0.950                       | 94.96%            | 0.22   | 0.45   | 0.186                       |



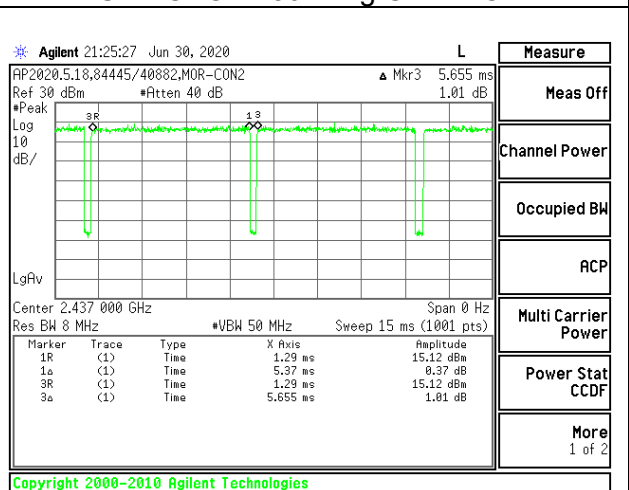
DUTY CYCLE 802.11b CDD MODE



DUTY CYCLE 802.11g CDD MODE



DUTY CYCLE 802.11n HT20 CDD MODE



DUTY CYCLE 802.11n HT40 CDD MODE

## **9.2. 99% BANDWIDTH**

### **LIMITS**

None; for reporting purposes only.

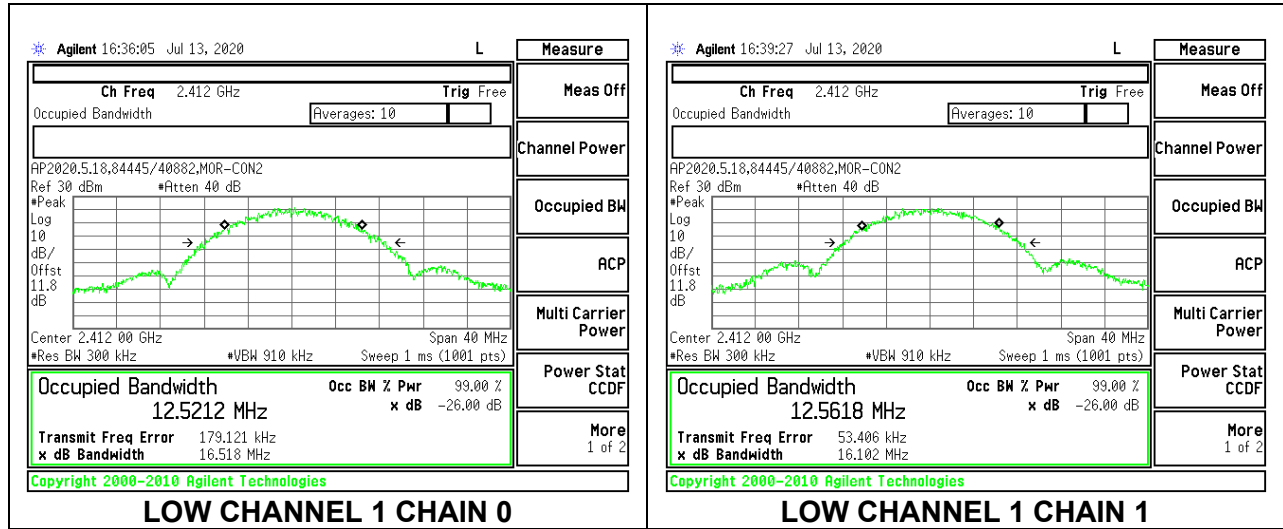
### **RESULTS**

### 9.2.1. 802.11b MODE

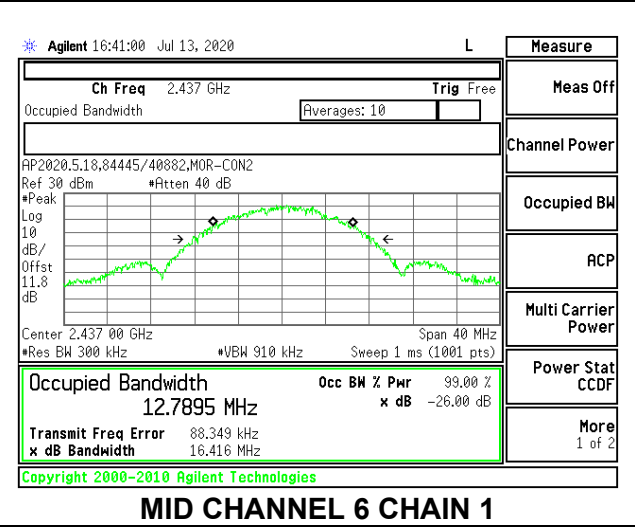
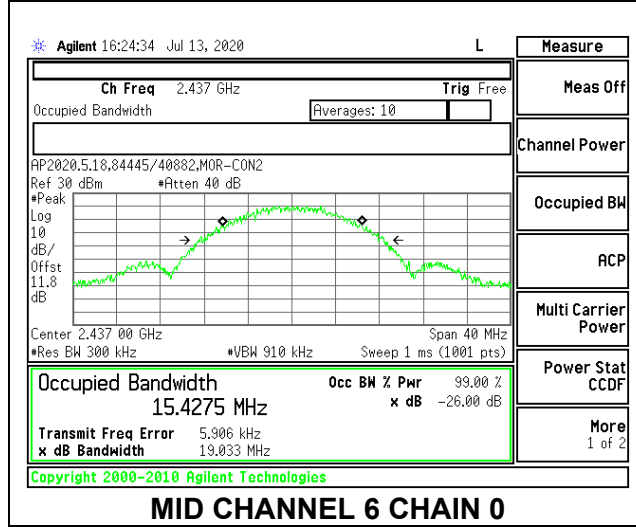
#### 2TX Antenna 1 + Antenna 2 CDD MODE

| Channel | Frequency (MHz) | 99% Bandwidth Antenna 1 (MHz) | 99% Bandwidth Antenna 2 (MHz) |
|---------|-----------------|-------------------------------|-------------------------------|
| Low 1   | 2412            | 12.5212                       | 12.5618                       |
| Mid 6   | 2437            | 15.4275                       | 12.7895                       |
| High 11 | 2462            | 12.5873                       | 12.2323                       |

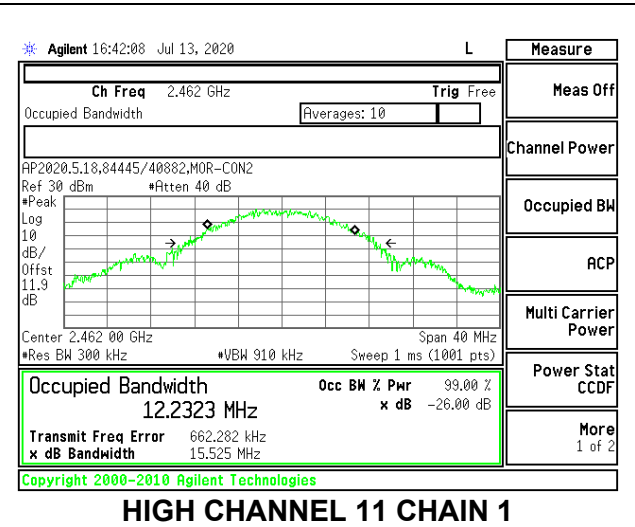
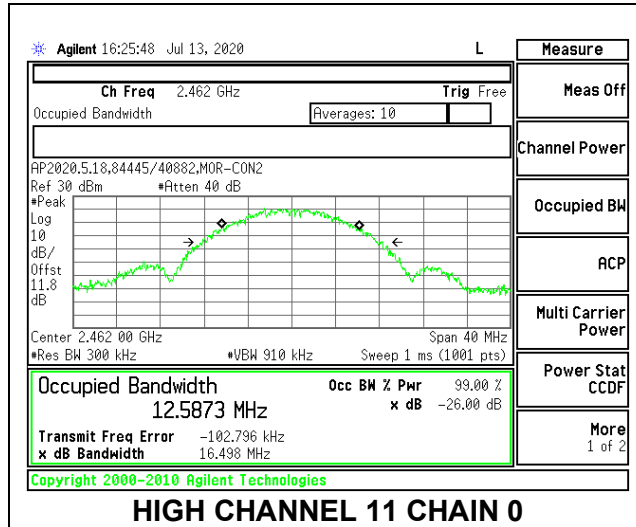
### LOW CHANNEL 1



### MID CHANNEL 6



### HIGH CHANNEL 11

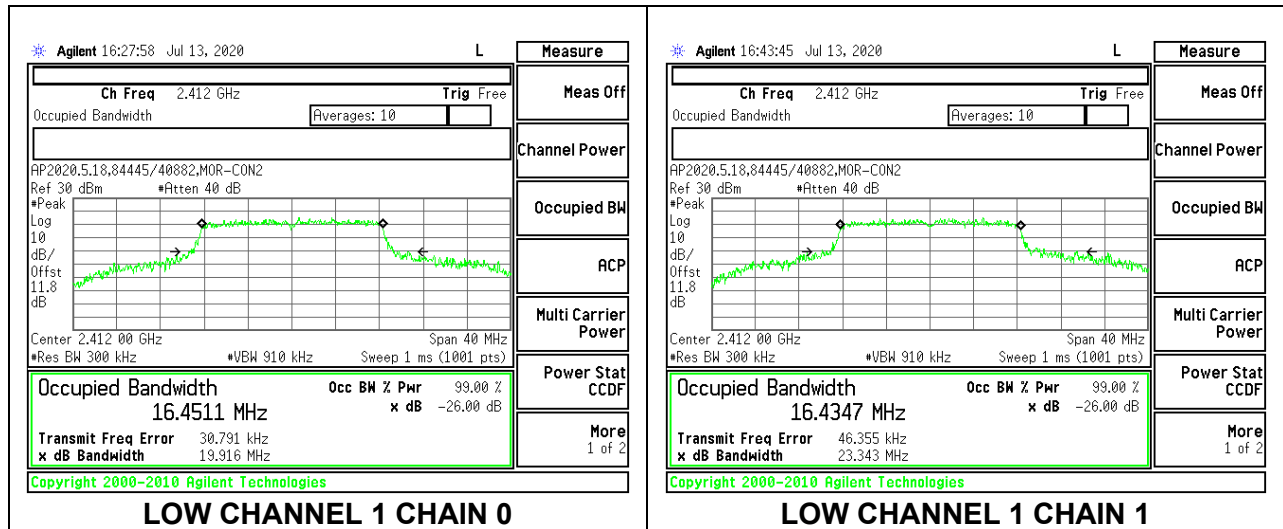


### 9.2.2. 802.11g MODE

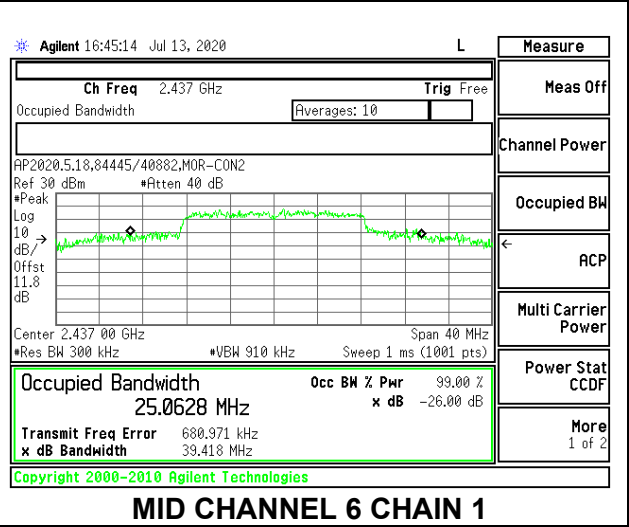
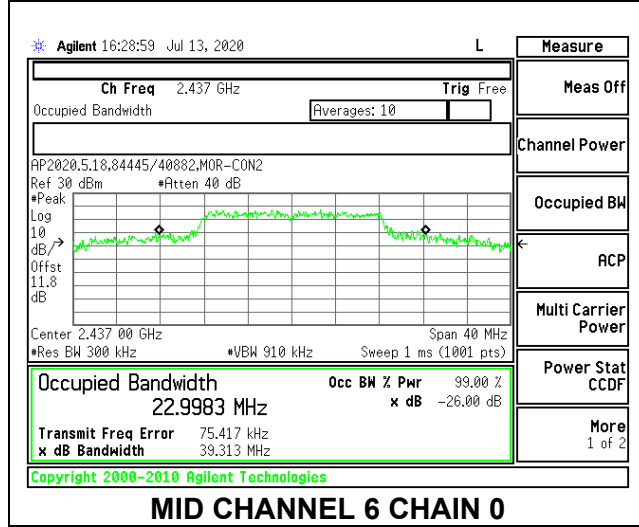
#### 2TX Antenna 1 + Antenna 2 CDD MODE

| Channel | Frequency (MHz) | 99% Bandwidth Antenna 1 (MHz) | 99% Bandwidth Antenna 2 (MHz) |
|---------|-----------------|-------------------------------|-------------------------------|
| Low 1   | 2412            | 16.4511                       | 16.4347                       |
| Mid 6   | 2437            | 22.9983                       | 25.0628                       |
| High 11 | 2462            | 19.3090                       | 19.1413                       |

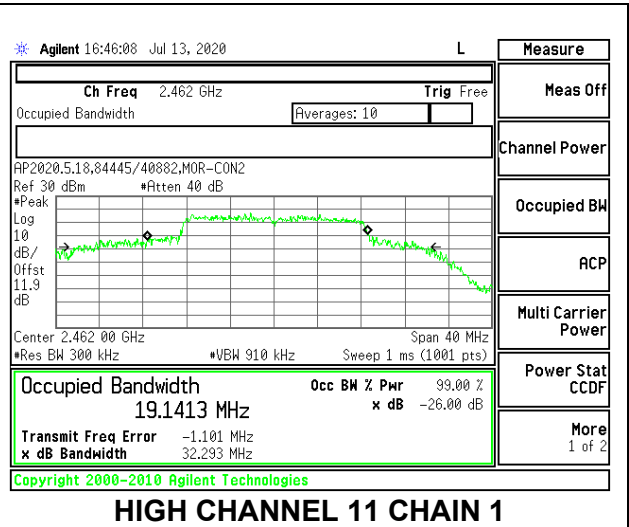
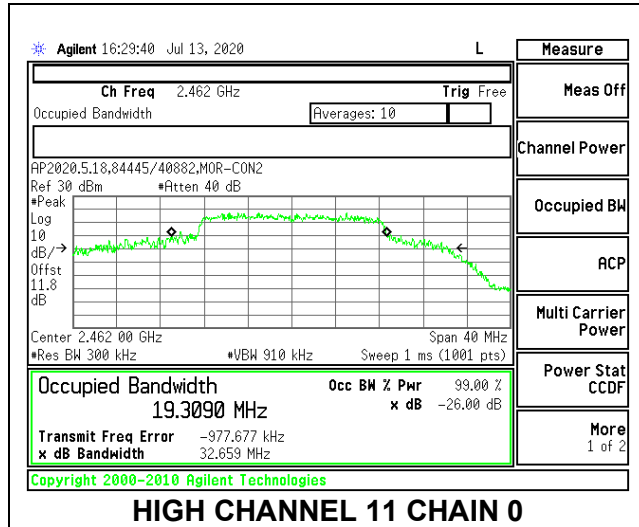
### LOW CHANNEL 1



### MID CHANNEL 6



### HIGH CHANNEL 11



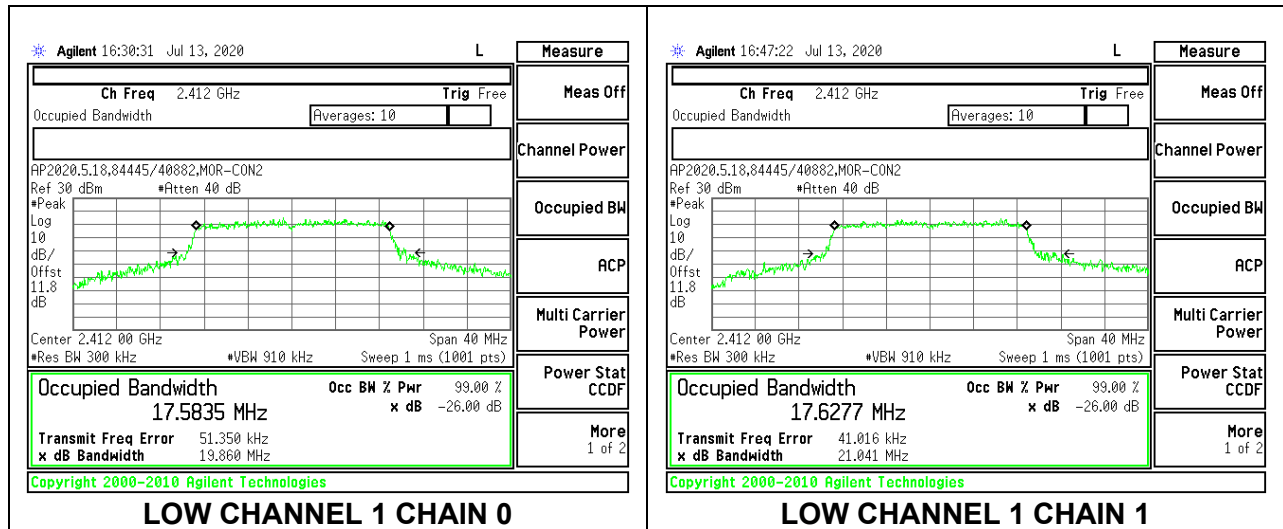


### 9.2.3. 802.11n HT20 MODE

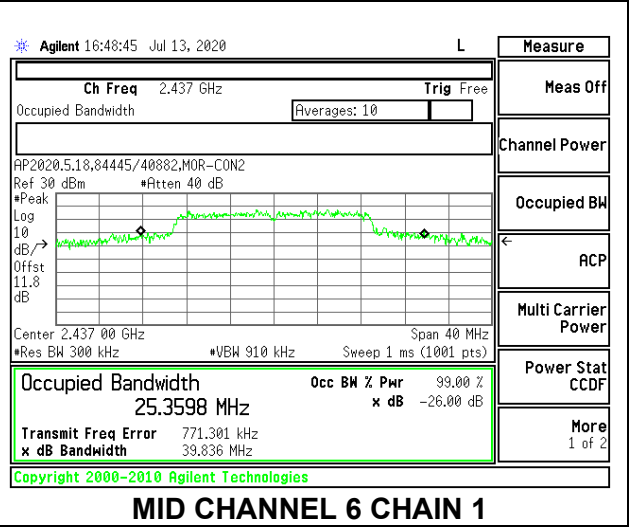
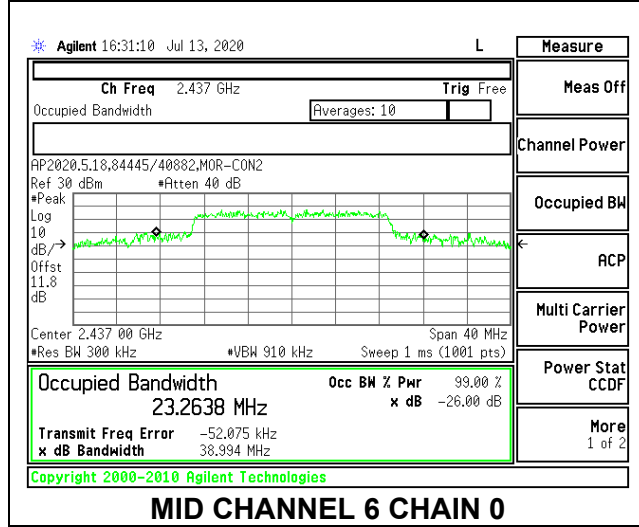
#### 2TX Antenna 1 + Antenna 2 CDD MODE

| Channel | Frequency (MHz) | 99% Bandwidth Antenna 1 (MHz) | 99% Bandwidth Antenna 2 (MHz) |
|---------|-----------------|-------------------------------|-------------------------------|
| Low 1   | 2412            | 17.5835                       | 17.6277                       |
| Mid 6   | 2437            | 23.2638                       | 25.3598                       |
| High 11 | 2462            | 19.7555                       | 20.3700                       |

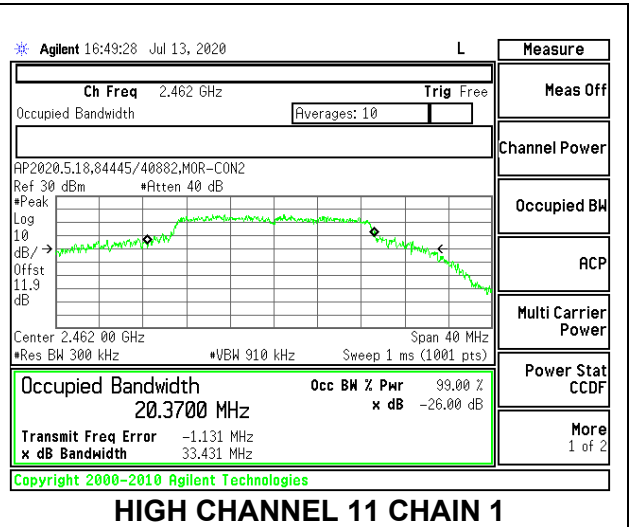
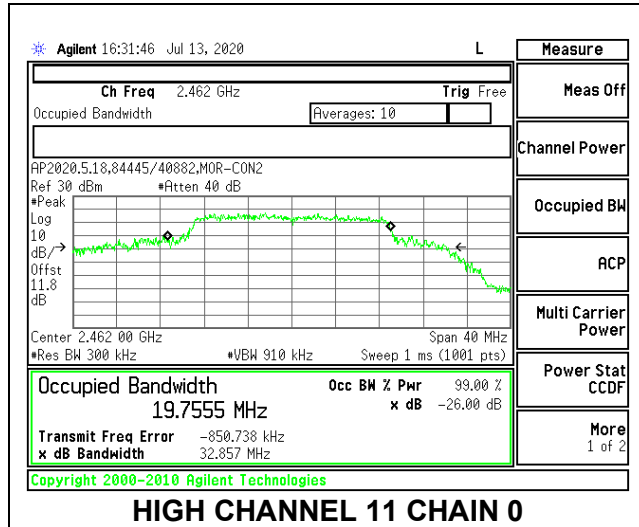
### LOW CHANNEL 1



### MID CHANNEL 6



### HIGH CHANNEL 11

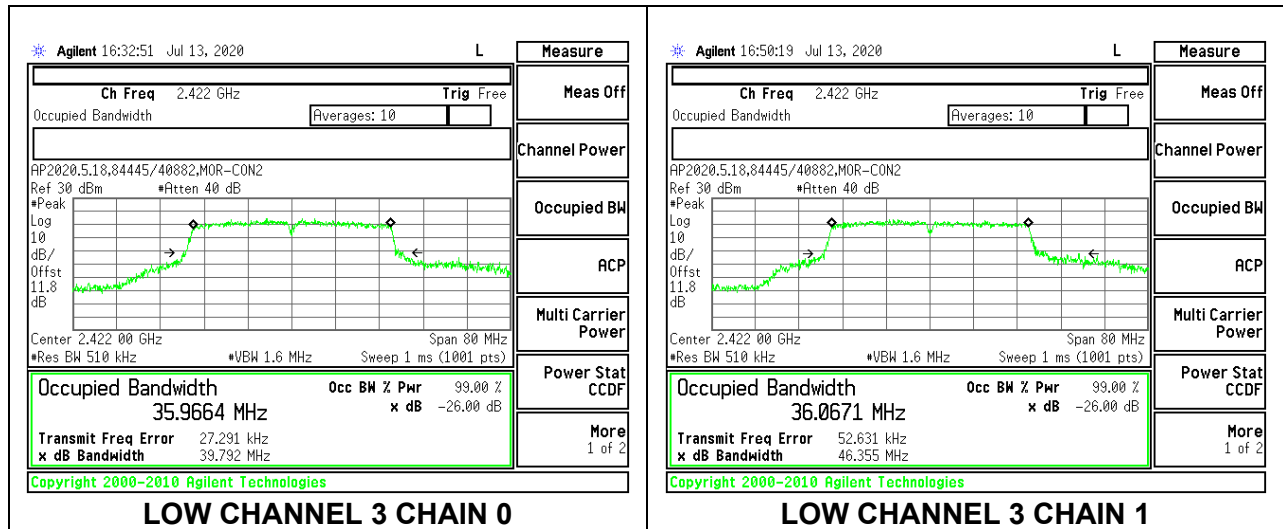


**9.2.4. 802.11n HT40 MODE**

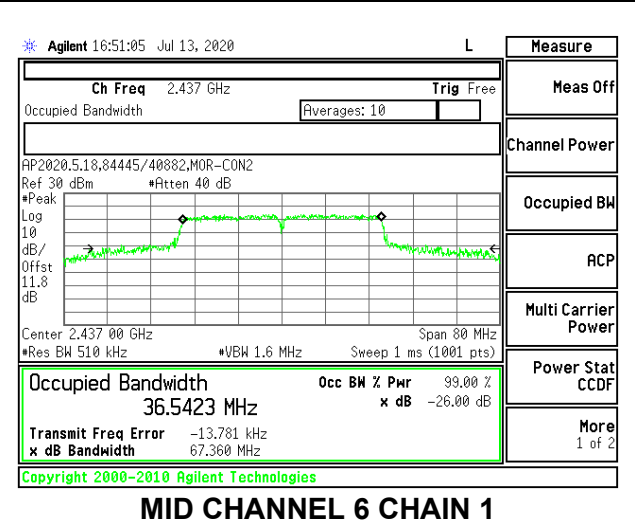
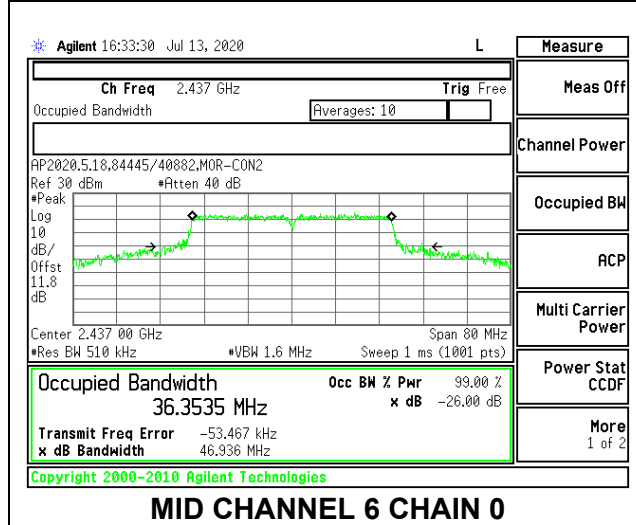
**2TX Antenna 1 + Antenna 2 CDD MODE**

| Channel | Frequency (MHz) | 99% Bandwidth Antenna 1 (MHz) | 99% Bandwidth Antenna 2 (MHz) |
|---------|-----------------|-------------------------------|-------------------------------|
| Low 3   | 2422            | 35.9664                       | 36.0671                       |
| Mid 6   | 2437            | 36.3535                       | 36.5423                       |
| High 9  | 2452            | 45.9190                       | 43.4078                       |

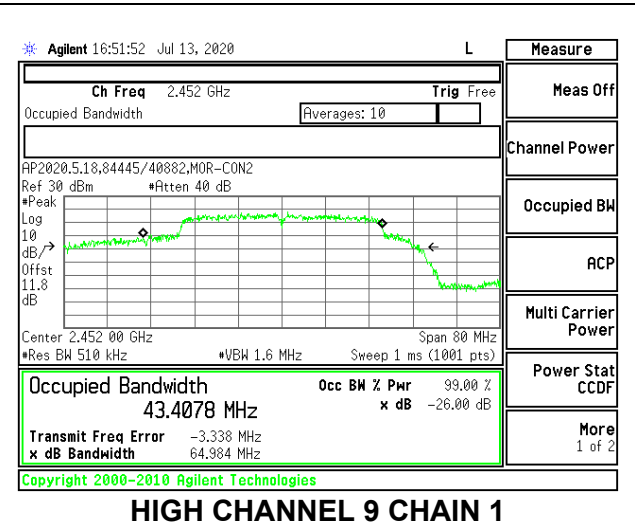
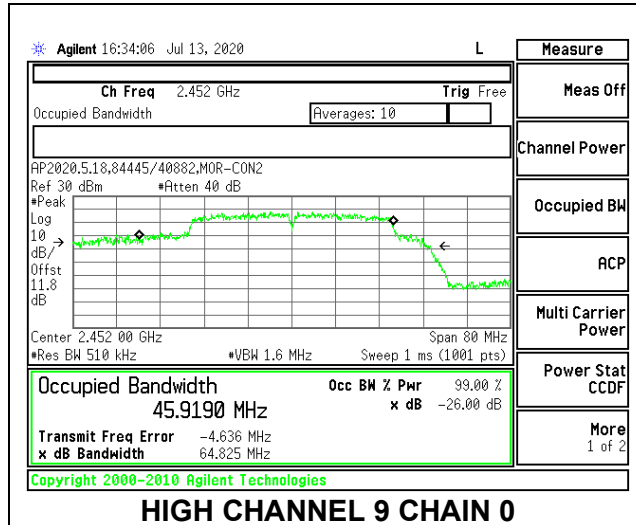
**LOW CHANNEL 3**



### MID CHANNEL 6



### HIGH CHANNEL 9



### **9.3. 6 dB BANDWIDTH**

#### **LIMITS**

FCC §15.247 (a) (2)  
RSS-247 5.2 (a)

The minimum 6 dB bandwidth shall be at least 500 kHz.

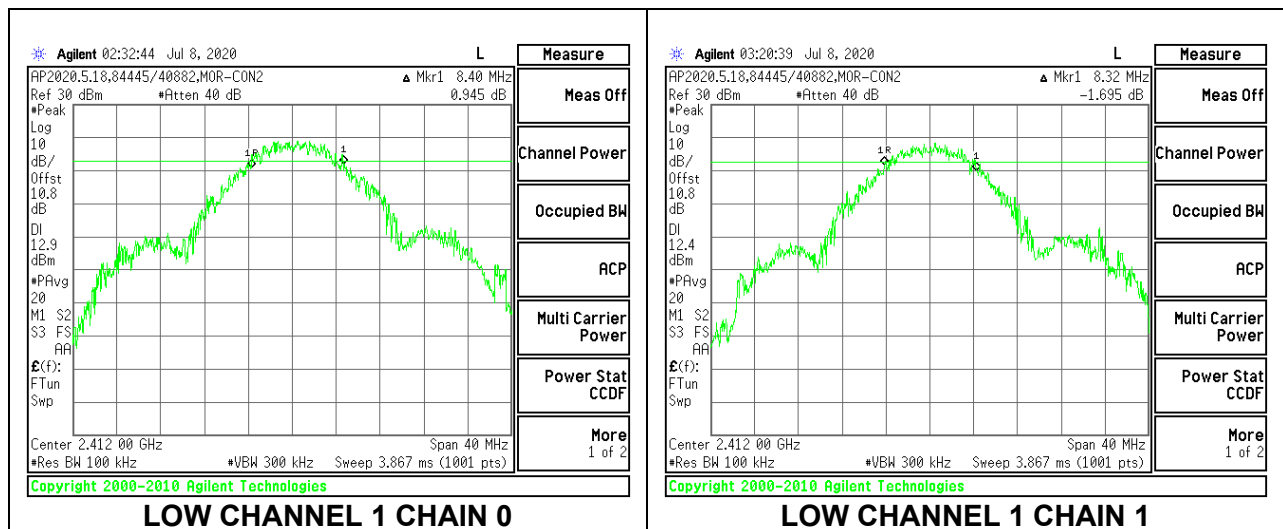
#### **RESULTS**

### 9.3.1. 802.11b MODE

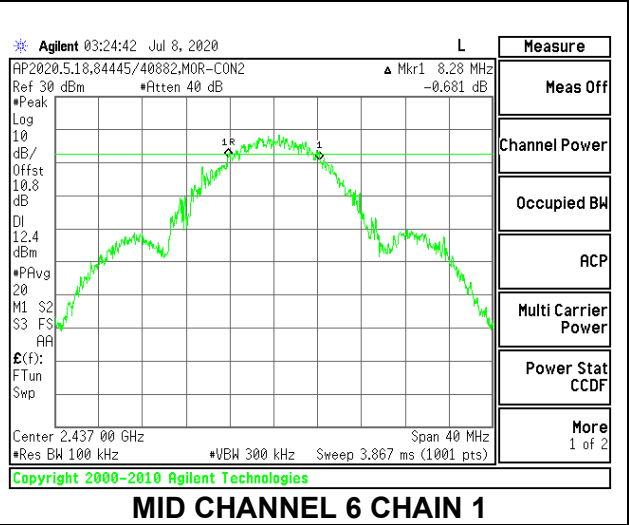
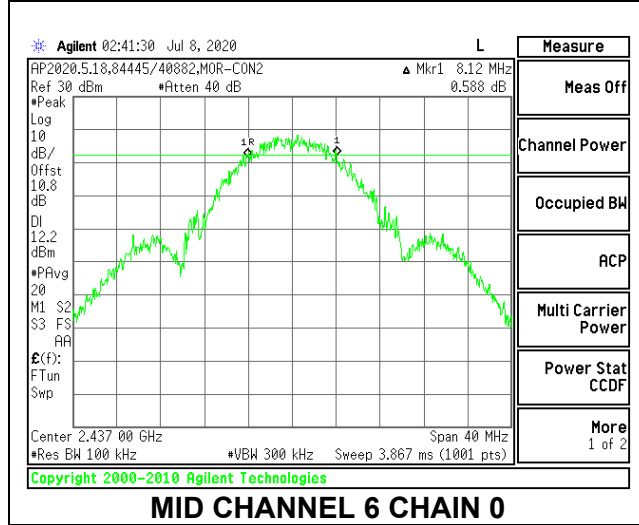
#### 2TX Antenna 1 + Antenna 2 CDD MODE

| Channel | Frequency (MHz) | 6 dB BW Antenna 1 (MHz) | 6 dB BW Antenna 2 (MHz) | Minimum Limit (MHz) |
|---------|-----------------|-------------------------|-------------------------|---------------------|
| Low 1   | 2412            | 8.4000                  | 8.3200                  | 0.5                 |
| Mid 6   | 2437            | 8.1200                  | 8.2800                  | 0.5                 |
| High 11 | 2462            | 8.3600                  | 6.8800                  | 0.5                 |

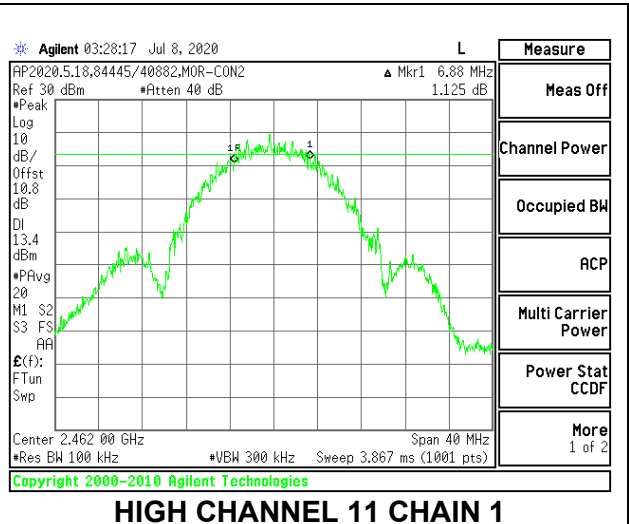
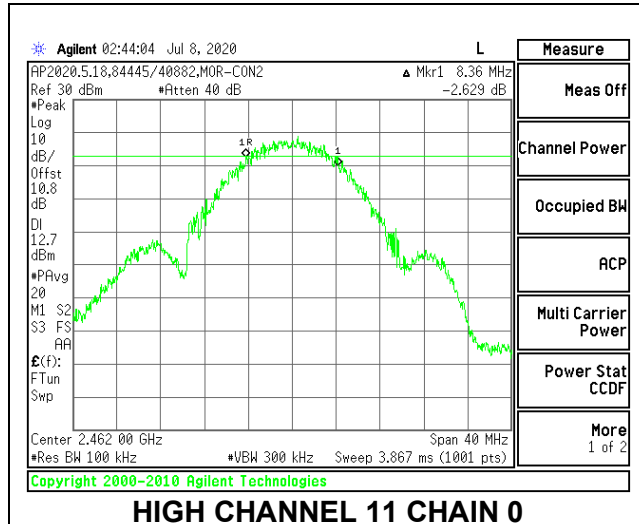
#### LOW CHANNEL 1



**MID CHANNEL 6**



**HIGH CHANNEL 11**

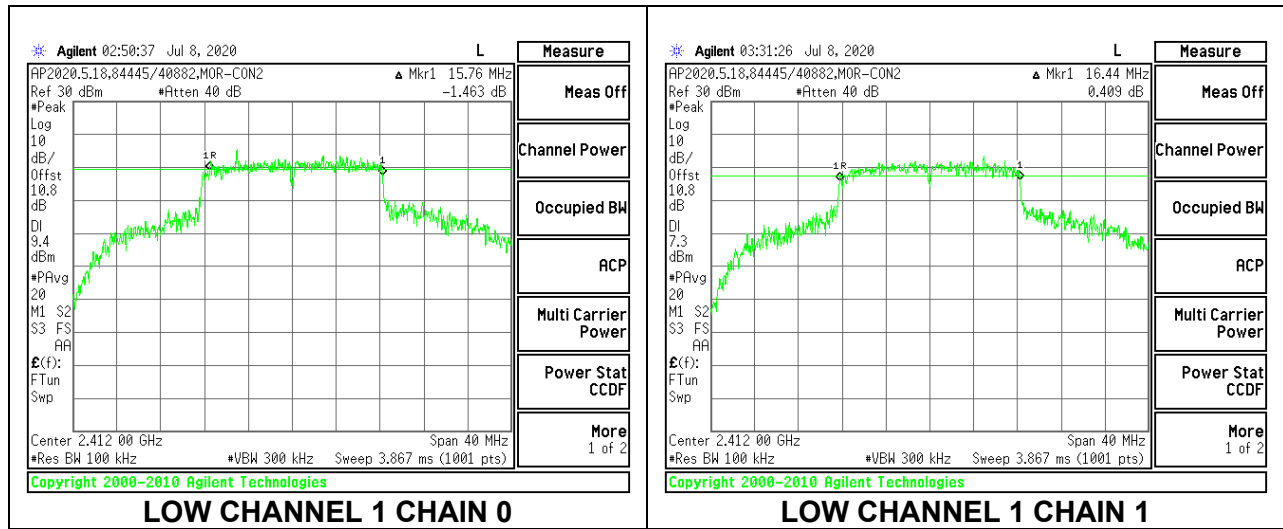


### 9.3.2. 802.11g MODE

#### 2TX Antenna 1 + Antenna 2 CDD MODE

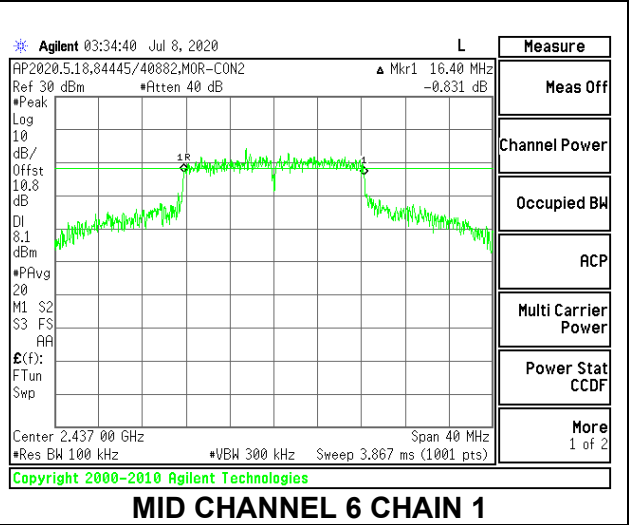
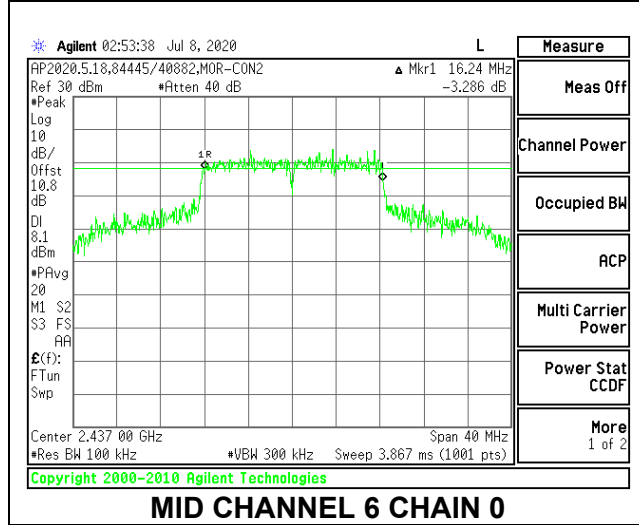
| Channel | Frequency (MHz) | 6 dB BW Antenna 1 (MHz) | 6 dB BW Antenna 2 (MHz) | Minimum Limit (MHz) |
|---------|-----------------|-------------------------|-------------------------|---------------------|
| Low 1   | 2412            | 15.7600                 | 16.4400                 | 0.5                 |
| Mid 6   | 2437            | 16.2400                 | 16.4000                 | 0.5                 |
| High 11 | 2462            | 16.4000                 | 16.5200                 | 0.5                 |

### LOW CHANNEL 1

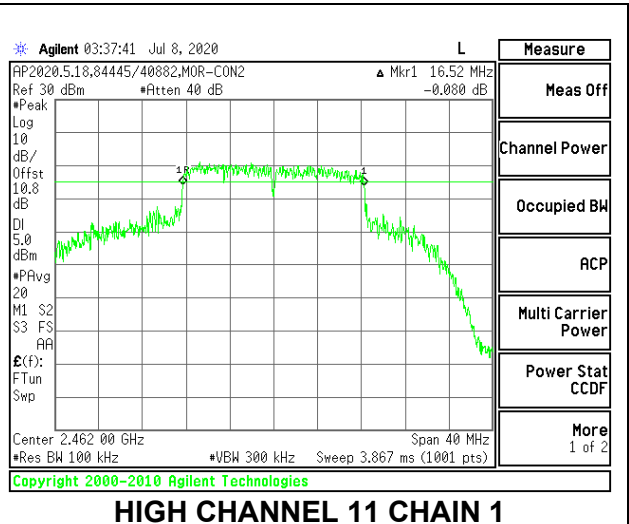
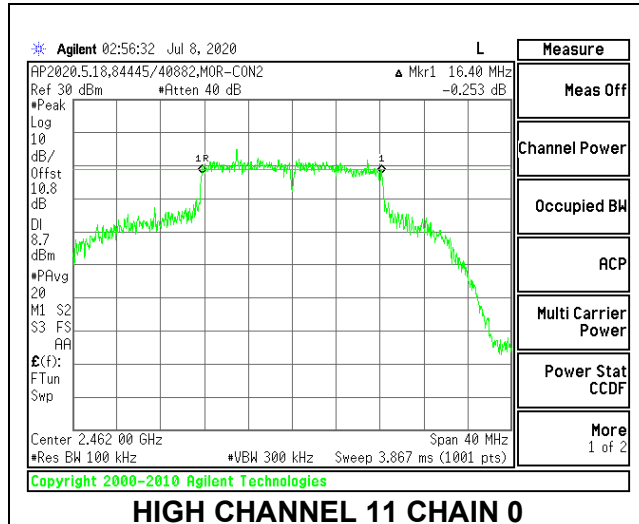




### MID CHANNEL 6



### HIGH CHANNEL 11

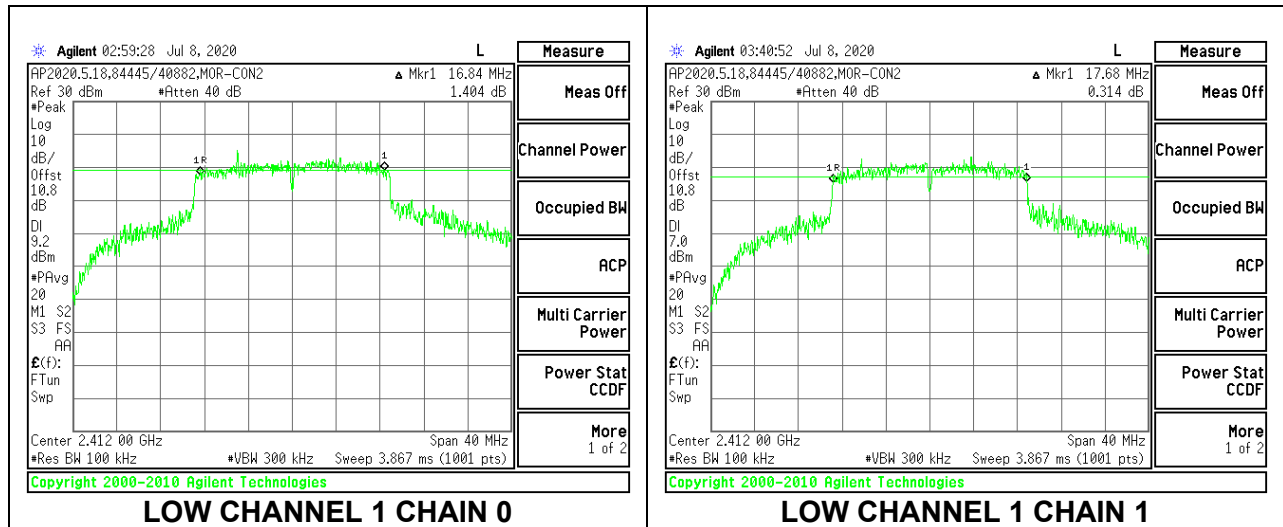


**9.3.3. 802.11n HT20 MODE**

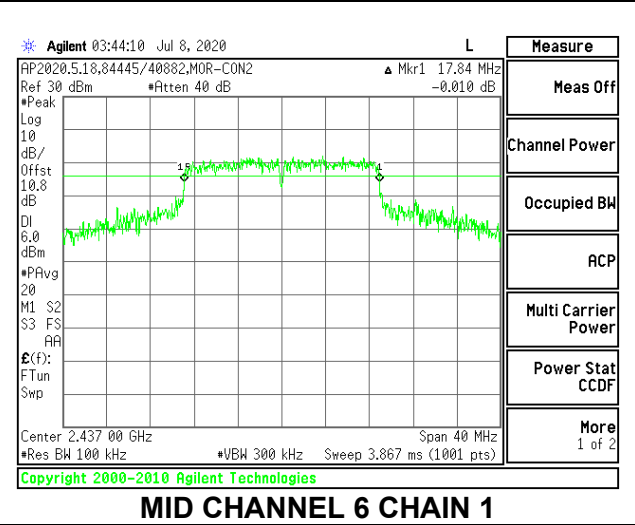
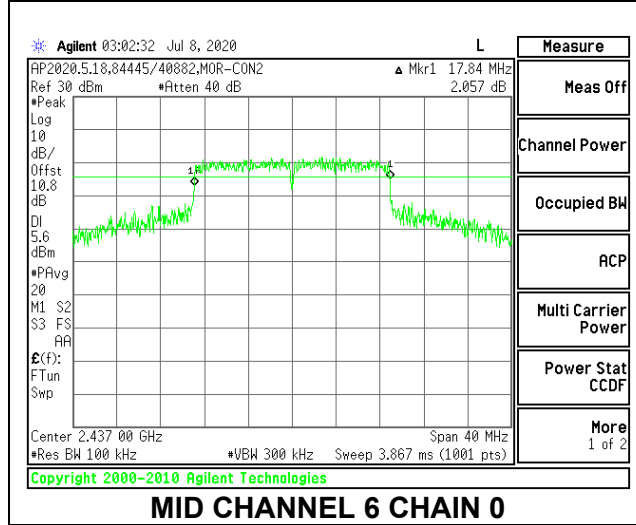
**2TX Antenna 1 + Antenna 2 CDD MODE**

| Channel | Frequency (MHz) | 6 dB BW Chain 0 (MHz) | 6 dB BW Chain 1 (MHz) | Minimum Limit (MHz) |
|---------|-----------------|-----------------------|-----------------------|---------------------|
| Low 1   | 2412            | 16.8400               | 17.6800               | 0.5                 |
| Mid 6   | 2437            | 17.8400               | 17.8400               | 0.5                 |
| High 11 | 2462            | 13.7600               | 17.7600               | 0.5                 |

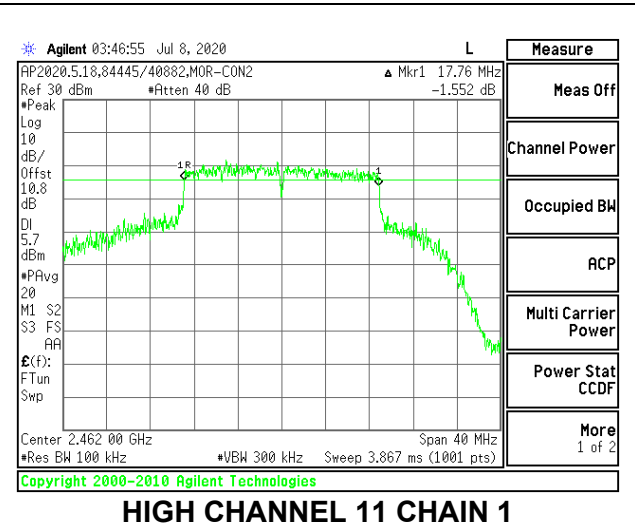
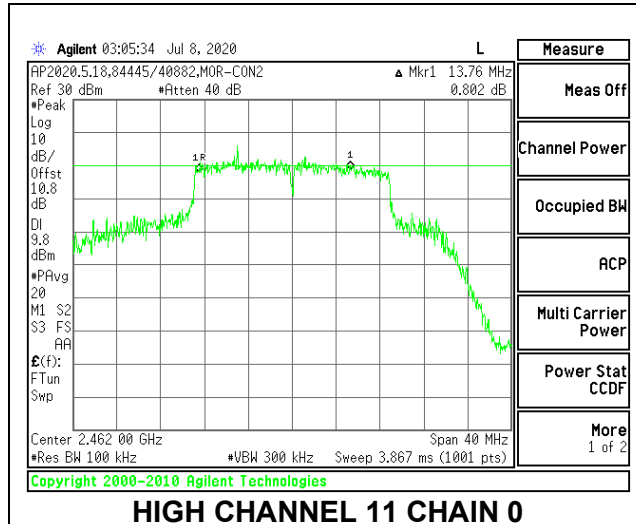
**LOW CHANNEL 1**



**MID CHANNEL 6**



**HIGH CHANNEL 11**

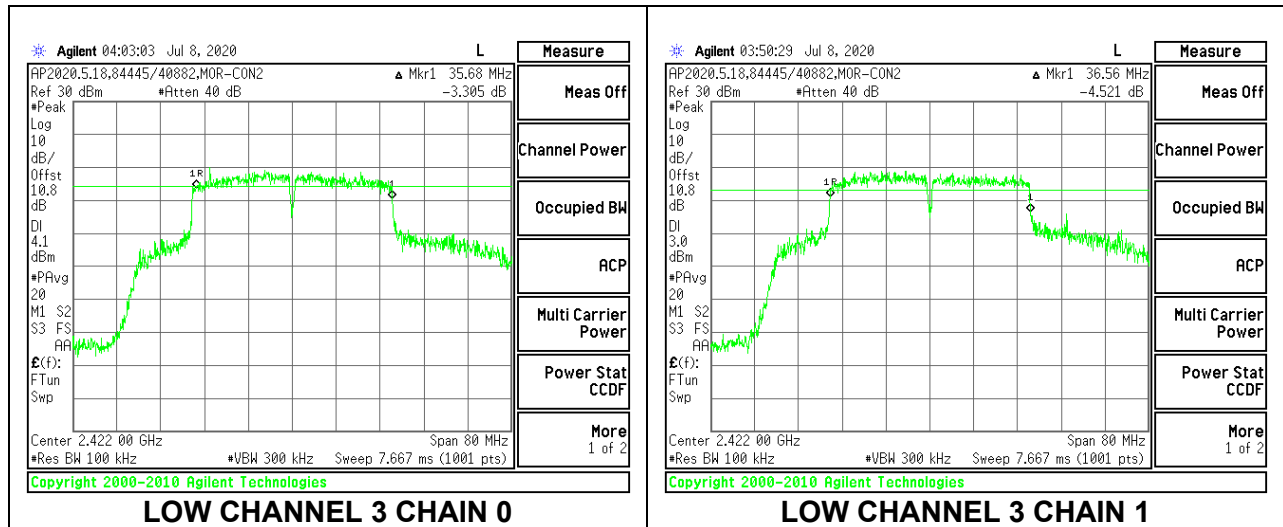


**9.3.4. 802.11n HT40 MODE**

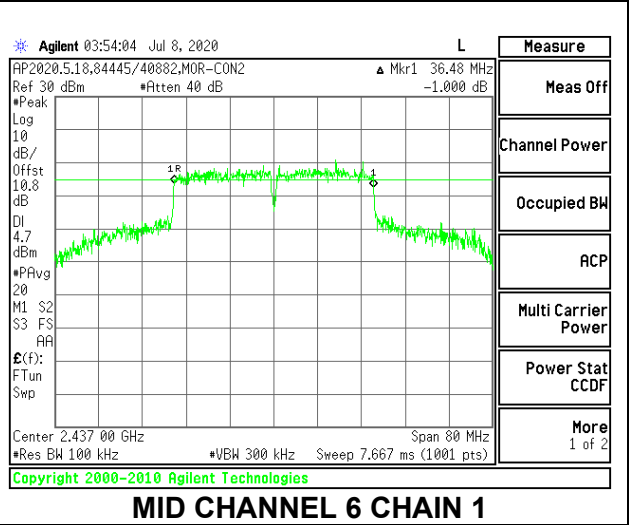
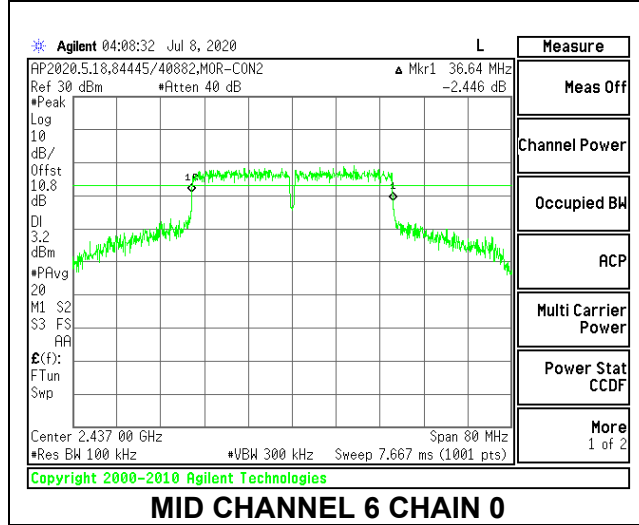
**2TX Antenna 1 + Antenna 2 CDD MODE**

| Channel | Frequency (MHz) | 6 dB BW Chain 0 (MHz) | 6 dB BW Chain 1 (MHz) | Minimum Limit (MHz) |
|---------|-----------------|-----------------------|-----------------------|---------------------|
| Low 3   | 2422            | 35.6800               | 36.5600               | 0.5                 |
| Mid 6   | 2437            | 36.6400               | 36.4800               | 0.5                 |
| High 9  | 2452            | 36.5600               | 36.5600               | 0.5                 |

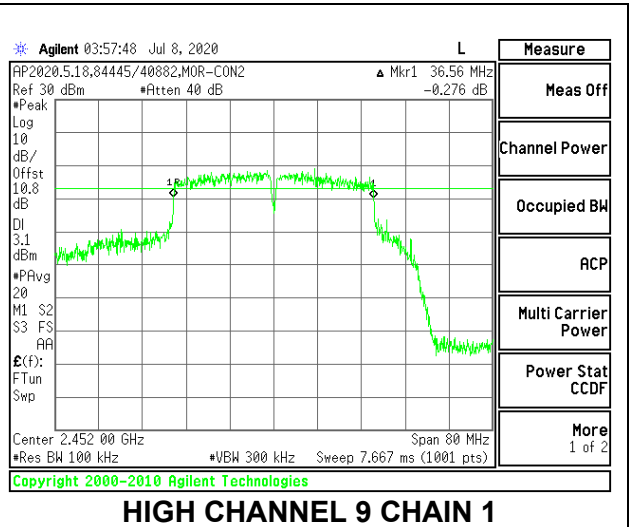
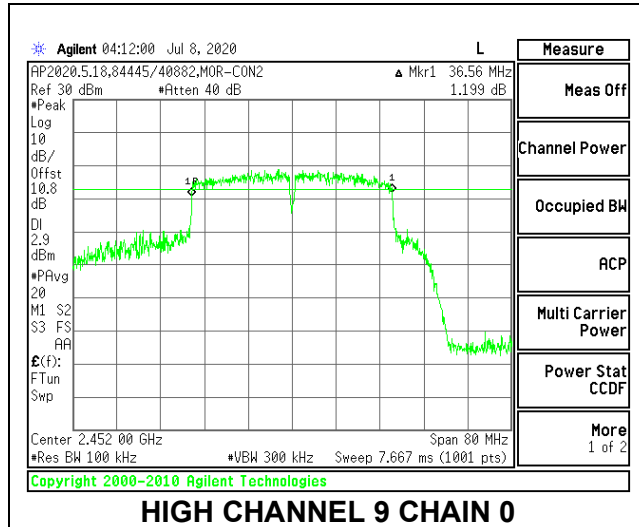
**LOW CHANNEL 3**



**MID CHANNEL 6**



**HIGH CHANNEL 9**



## 9.4. OUTPUT POWER

### LIMITS

FCC §15.247 (b) (3)  
RSS-247 5.4 (d)

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### TEST PROCEDURE

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 11.8 dB (including 10.54 dB pad and 1.26 dB cable) was entered as an offset in the power meter to allow for a gated average reading of power.

### 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:

|                       | <b>Antenna 3</b>      | <b>Antenna 6</b>      | <b>Uncorrelated Chains<br/>Directional</b> | <b>Correlated Chains<br/>Directional</b> |
|-----------------------|-----------------------|-----------------------|--|--|
| <b>Band<br/>(GHz)</b> | <b>Gain<br/>(dBi)</b> | <b>Gain<br/>(dBi)</b> | <b>Gain<br/>(dBi)</b>                      | <b>Gain<br/>(dBi)</b>                    |
| 2.4                   | 4.30                  | 5.10                  | 4.72                                       | 7.72                                     |

**RESULTS**

**9.4.1. 802.11b MODE**

**2TX Antenna 1 + Antenna 2 CDD MODE**

|                       |               |
|-----------------------|---------------|
| <b>Test Engineer:</b> | 84740 / 84445 |
| <b>Test Date:</b>     | 2020-07-10    |

**Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC/ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|-------------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | 4.72                         | 30.00                               | 36                             | 30.00                 |
| Mid 6   | 2437               | 4.72                         | 30.00                               | 36                             | 30.00                 |
| High 11 | 2462               | 4.72                         | 30.00                               | 36                             | 30.00                 |

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

**Results**

| Channel | Frequency<br>(MHz) | Antenna 1<br>Meas<br>Power<br>(dBm) | Antenna 2<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|----------------|
| Low 1   | 2412               | 26.60                               | 26.87                               | 29.75                             | 30.00                   | -0.25          |
| Mid 6   | 2437               | 26.46                               | 26.54                               | 29.51                             | 30.00                   | -0.49          |
| High 11 | 2462               | 26.86                               | 26.74                               | 29.81                             | 30.00                   | -0.19          |

**9.4.2. 802.11g MODE**

**2TX Antenna 1 + Antenna 2 CDD MODE**

|                       |                        |
|-----------------------|------------------------|
| <b>Test Engineer:</b> | 84445 / 40882          |
| <b>Test Date:</b>     | 2020-07-09, 2020-09-22 |

**Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC/ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|-------------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | 4.72                         | 30.00                               | 36                             | 30.00                 |
| Low 2   | 2417               | 4.72                         | 30.00                               | 36                             | 30.00                 |
| Low 3   | 2422               | 4.72                         | 30.00                               | 36                             | 30.00                 |
| Mid 6   | 2437               | 4.72                         | 30.00                               | 36                             | 30.00                 |
| High 11 | 2462               | 4.72                         | 30.00                               | 36                             | 30.00                 |

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

**Results**

| Channel | Frequency<br>(MHz) | Antenna 1<br>Meas<br>Power<br>(dBm) | Antenna 2<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|----------------|
| Low 1   | 2412               | 23.17                               | 22.98                               | 26.09                             | 30.00                   | -3.91          |
| Low 2   | 2417               | 23.90                               | 23.69                               | 26.81                             | 30.00                   | -3.19          |
| Low 3   | 2422               | 23.37                               | 23.22                               | 26.31                             | 30.00                   | -3.69          |
| Mid 6   | 2437               | 23.16                               | 23.31                               | 26.25                             | 30.00                   | -3.75          |
| High 11 | 2462               | 23.43                               | 23.31                               | 26.38                             | 30.00                   | -3.62          |



**9.4.3. 802.11n HT20 MODE**

**2TX Antenna 1 + Antenna 2 CDD MODE**

|                       |                        |
|-----------------------|------------------------|
| <b>Test Engineer:</b> | 84445 / 40882          |
| <b>Test Date:</b>     | 2020-07-09, 2020-09-22 |

**Limits**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC/ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|-------------------------------------|--------------------------------|-----------------------|
| Low 1   | 2412               | 4.72                         | 30.00                               | 36                             | 30.00                 |
| Low 2   | 2417               | 4.72                         | 30.00                               | 36                             | 30.00                 |
| Low 3   | 2422               | 4.72                         | 30.00                               | 36                             | 30.00                 |
| Mid 6   | 2437               | 4.72                         | 30.00                               | 36                             | 30.00                 |
| High 11 | 2462               | 4.72                         | 30.00                               | 36                             | 30.00                 |

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

**Results**

| Channel | Frequency<br>(MHz) | Antenna 1<br>Meas<br>Power<br>(dBm) | Antenna 2<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|----------------|
| Low 1   | 2412               | 22.72                               | 22.28                               | 25.52                             | 30.00                   | -4.48          |
| Low 2   | 2417               | 23.80                               | 23.44                               | 26.63                             | 30.00                   | -3.37          |
| Low 3   | 2422               | 23.29                               | 23.32                               | 26.32                             | 30.00                   | -3.68          |
| Mid 6   | 2437               | 23.22                               | 23.33                               | 26.29                             | 30.00                   | -3.71          |
| High 11 | 2462               | 23.32                               | 23.30                               | 26.32                             | 30.00                   | -3.68          |

### 9.4.4. 802.11n HT40 MODE

#### 2TX Antenna 1 + Antenna 2 CDD MODE

|                       |                        |
|-----------------------|------------------------|
| <b>Test Engineer:</b> | 84445 / 40882          |
| <b>Test Date:</b>     | 2020-07-09, 2020-09-22 |

#### Limits

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | FCC/ISED<br>Power<br>Limit<br>(dBm) | ISED<br>EIRP<br>Limit<br>(dBm) | Max<br>Power<br>(dBm) |
|---------|--------------------|------------------------------|-------------------------------------|--------------------------------|-----------------------|
| Low 3   | 2422               | 4.72                         | 30.00                               | 36                             | 30.00                 |
| Low 4   | 2427               | 4.72                         | 30.00                               | 36                             | 30.00                 |
| Mid 6   | 2437               | 4.72                         | 30.00                               | 36                             | 30.00                 |
| High 8  | 2447               | 4.72                         | 30.00                               | 36                             | 30.00                 |
| High 9  | 2452               | 4.72                         | 30.00                               | 36                             | 30.00                 |

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

#### Results

| Channel | Frequency<br>(MHz) | Antenna 1<br>Meas<br>Power<br>(dBm) | Antenna 2<br>Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Margin<br>(dB) |
|---------|--------------------|-------------------------------------|-------------------------------------|-----------------------------------|-------------------------|----------------|
| Low 3   | 2422               | 20.82                               | 20.86                               | 23.85                             | 30.00                   | -6.15          |
| Low 4   | 2427               | 22.59                               | 22.45                               | 25.53                             | 30.00                   | -4.47          |
| Low 5   | 2432               | 23.14                               | 23.14                               | 26.15                             | 30.00                   | -3.85          |
| Mid 6   | 2437               | 23.86                               | 23.68                               | 26.78                             | 30.00                   | -3.22          |
| High 7  | 2442               | 24.67                               | 24.61                               | 27.65                             | 30.00                   | -2.35          |
| High 8  | 2447               | 22.89                               | 22.70                               | 25.81                             | 30.00                   | -4.19          |
| High 9  | 2452               | 22.77                               | 22.55                               | 25.67                             | 30.00                   | -4.33          |

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## **9.5. POWER SPECTRAL DENSITY**

### **LIMITS**

FCC §15.247 (e)  
RSS-247 (5.2) (b)

The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

### **RESULTS**

### 9.5.1. 802.11b MODE

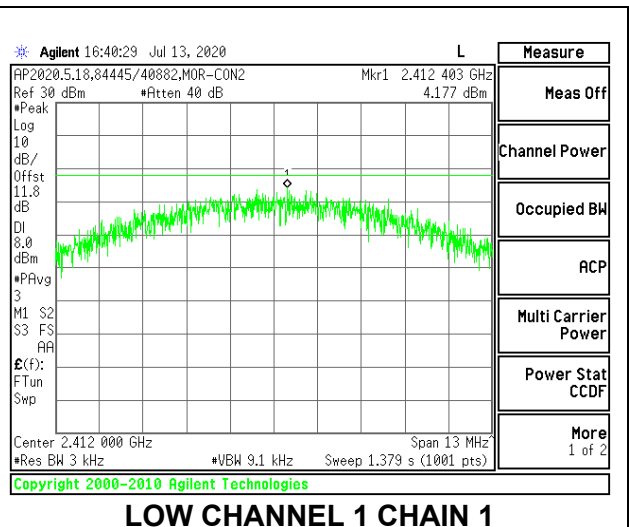
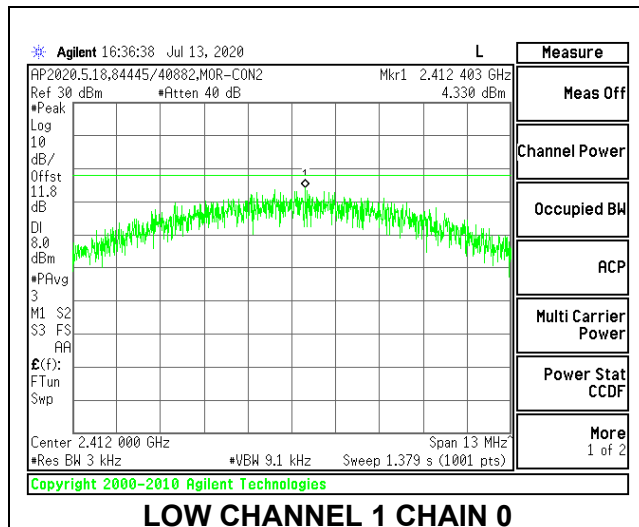
#### 2TX Antenna 1 + Antenna 2 CDD MODE

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

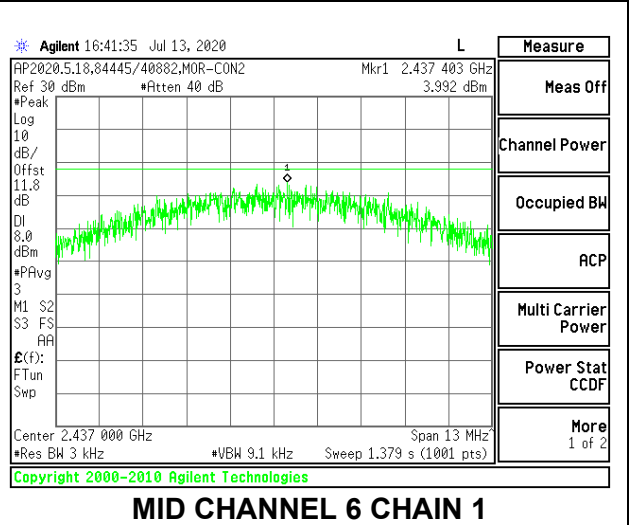
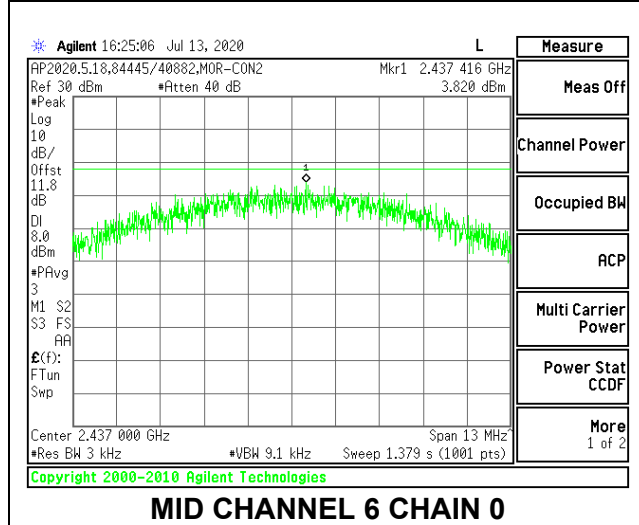
#### PSD Results

| Channel | Frequency (MHz) | Chain 0 Meas (dBm/3kHz) | Chain 1 Meas (dBm/3kHz) | Total Corr'd PSD (dBm/3kHz) | Limit (dBm/3kHz) | Margin (dB) |
|---------|-----------------|-------------------------|-------------------------|-----------------------------|------------------|-------------|
| Low 1   | 2412            | 4.33                    | 4.18                    | 7.26                        | 8.0              | -0.74       |
| Mid 6   | 2437            | 3.82                    | 3.99                    | 6.92                        | 8.0              | -1.08       |
| High 11 | 2462            | 4.17                    | 4.16                    | 7.18                        | 8.0              | -0.82       |

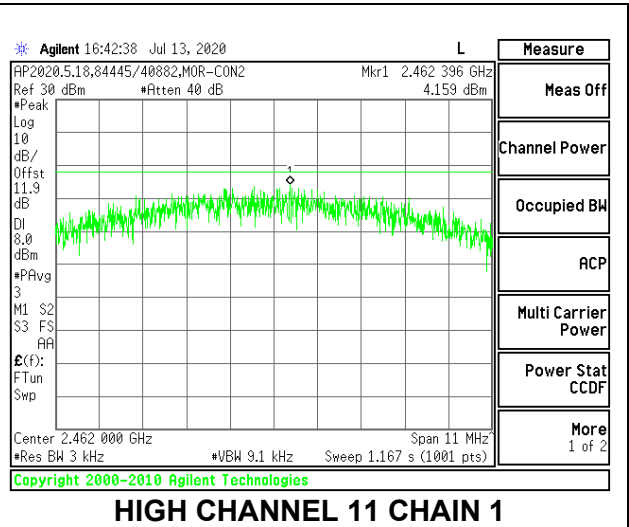
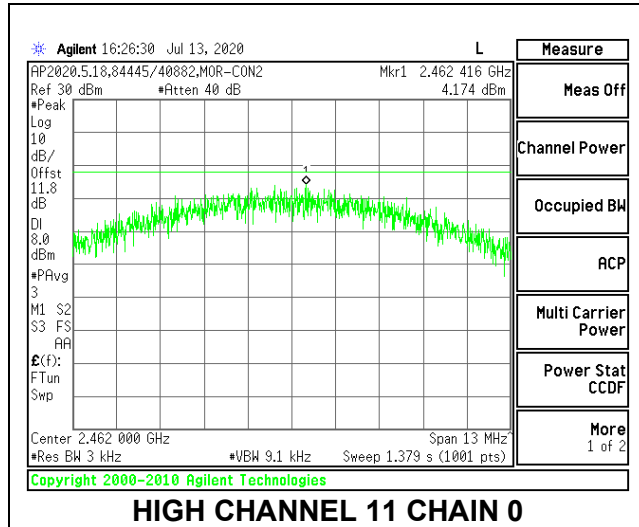
### LOW CHANNEL 1



**MID CHANNEL 6**



**HIGH CHANNEL 11**



### 9.5.2. 802.11g MODE

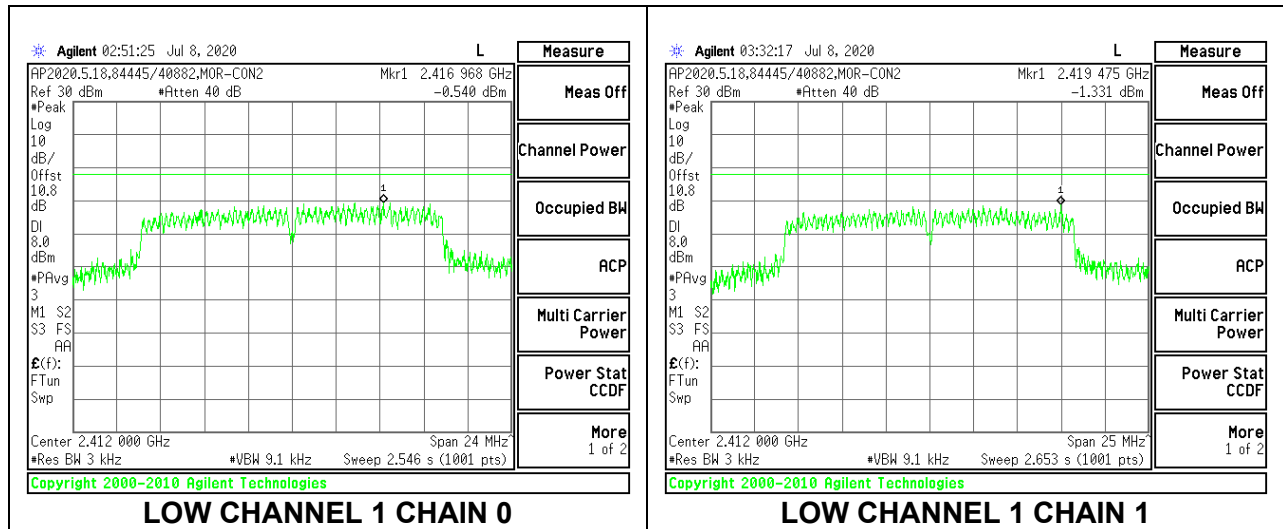
#### 2TX Antenna 1 + Antenna 2 CDD MODE

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

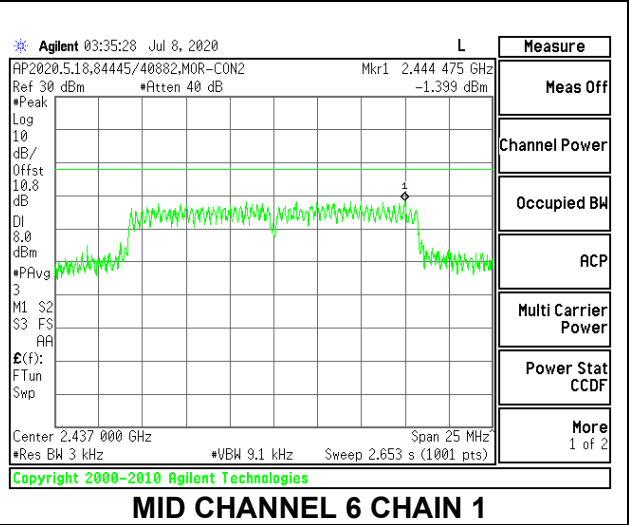
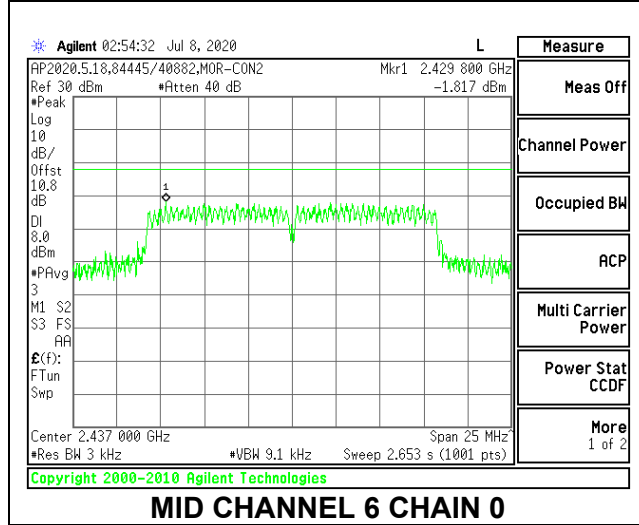
#### PSD Results

| Channel | Frequency (MHz) | Chain 0 Meas (dBm/3kHz) | Chain 1 Meas (dBm/3kHz) | Total Corr'd PSD (dBm/3kHz) | Limit (dBm/3kHz) | Margin (dB) |
|---------|-----------------|-------------------------|-------------------------|-----------------------------|------------------|-------------|
| Low 1   | 2412            | -0.54                   | -1.33                   | 2.09                        | 8.0              | -5.9        |
| Mid 6   | 2437            | -1.82                   | -1.40                   | 1.41                        | 8.0              | -6.6        |
| High 11 | 2462            | -0.36                   | -2.12                   | 1.86                        | 8.0              | -6.1        |

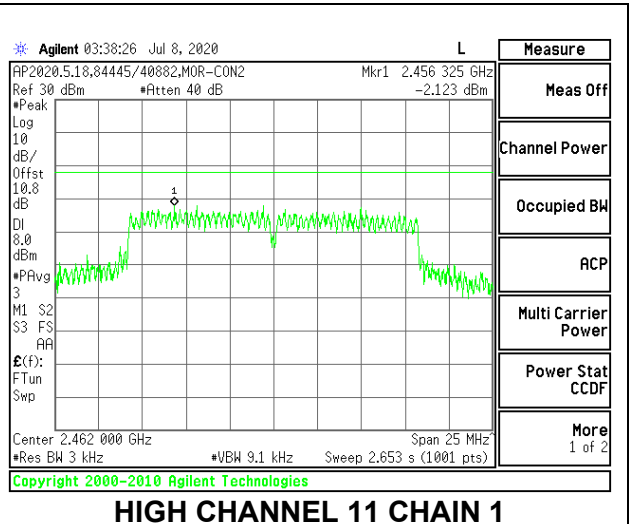
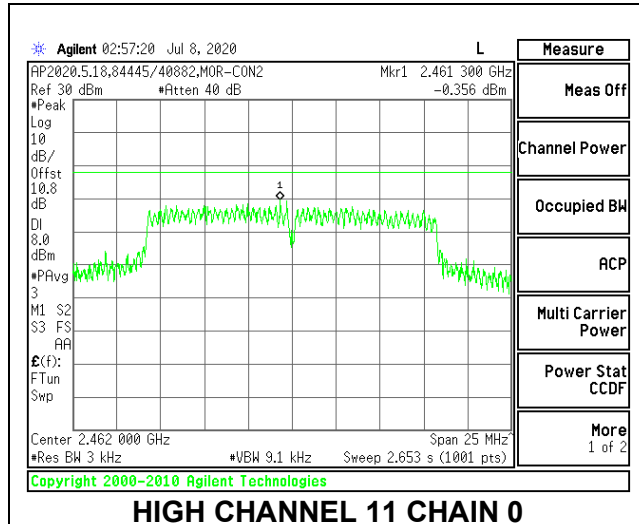
### LOW CHANNEL 1



**MID CHANNEL 6**



**HIGH CHANNEL 11**



**9.5.3. 802.11n HT20 MODE**

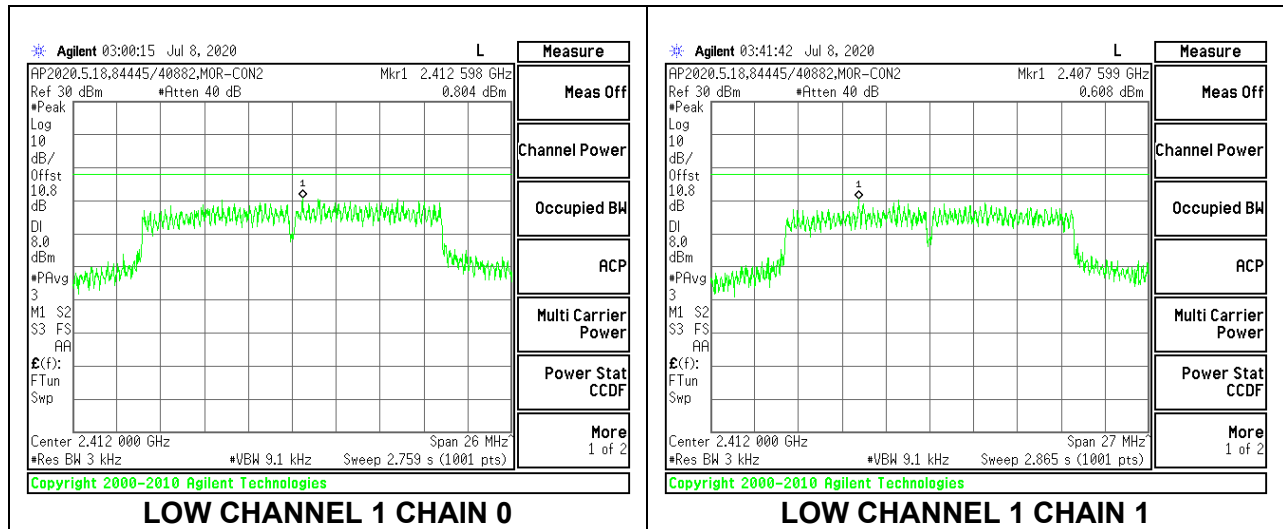
**2TX Antenna 1 + Antenna 2 CDD MODE**

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

**PSD Results**

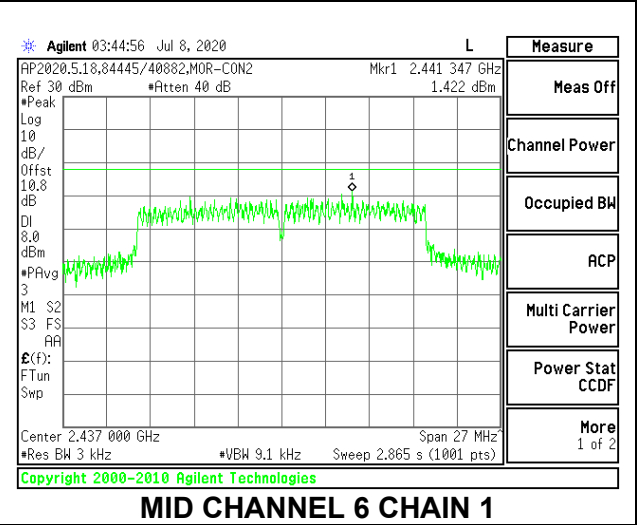
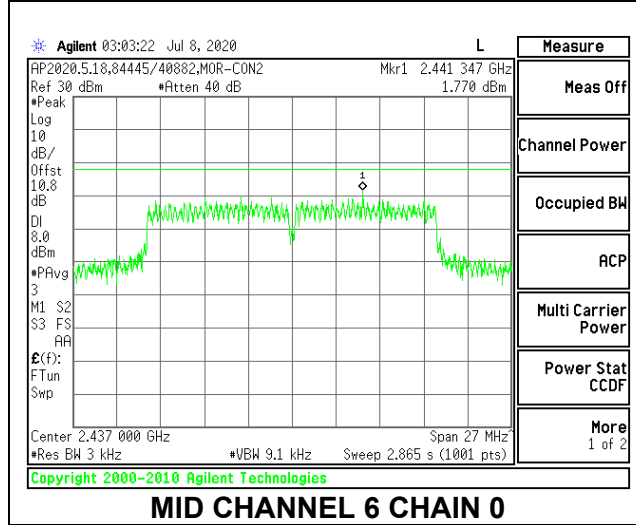
| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>(dBm/<br>3kHz) | Chain 1<br>Meas<br>(dBm/<br>3kHz) | Total<br>Corr'd<br>PSD<br>(dBm/<br>3kHz) | Limit<br>(dBm/<br>3kHz) | Margin<br>(dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|--|-------------------------|----------------|
| Low 1   | 2412               | 0.80                              | 0.61                              | 3.72                                     | 8.0                     | -4.3           |
| Mid 6   | 2437               | 1.77                              | 1.42                              | 4.61                                     | 8.0                     | -3.4           |
| High 11 | 2462               | -0.48                             | -1.33                             | 2.13                                     | 8.0                     | -5.9           |

**LOW CHANNEL 1**

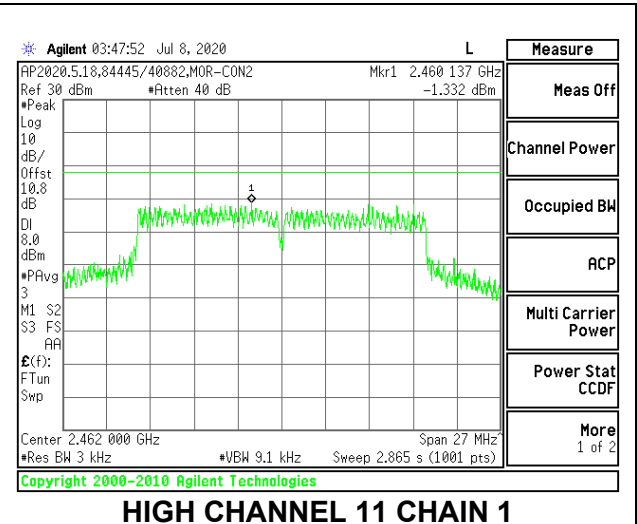
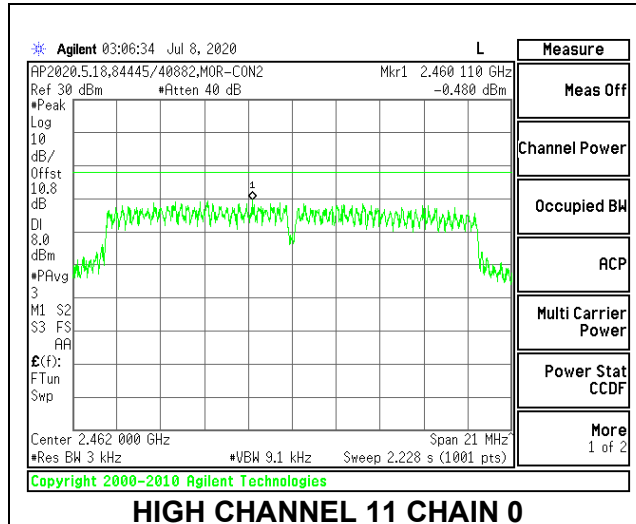




**MID CHANNEL 6**



**HIGH CHANNEL 11**



**9.5.4. 802.11n HT40 MODE**

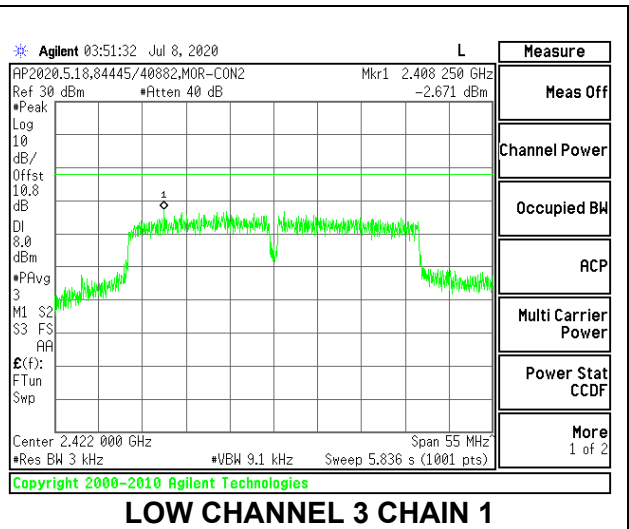
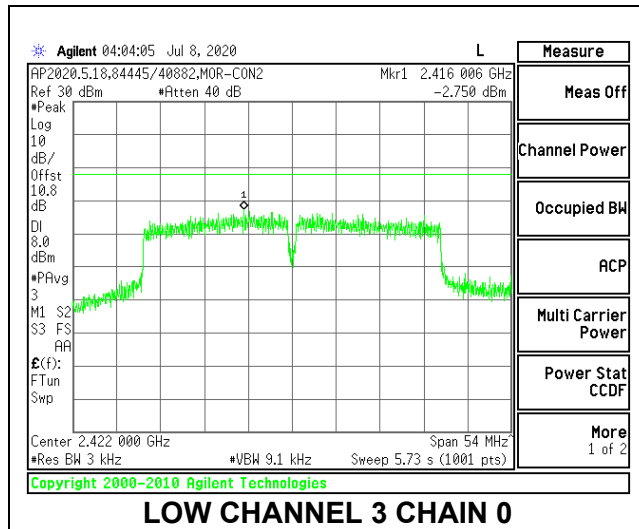
**2TX Antenna 1 + Antenna 2 CDD MODE**

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

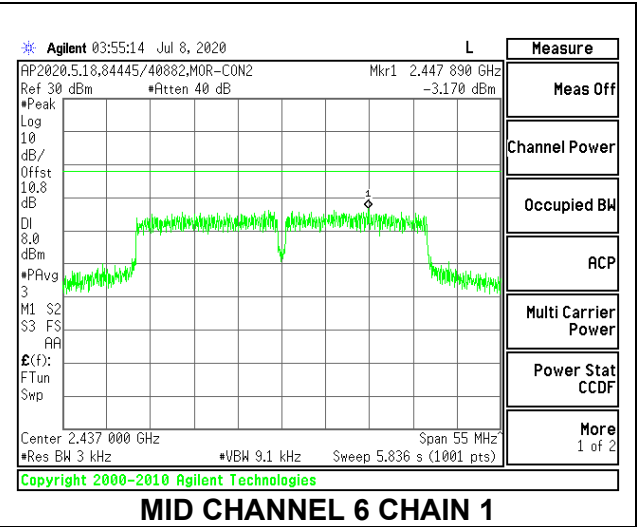
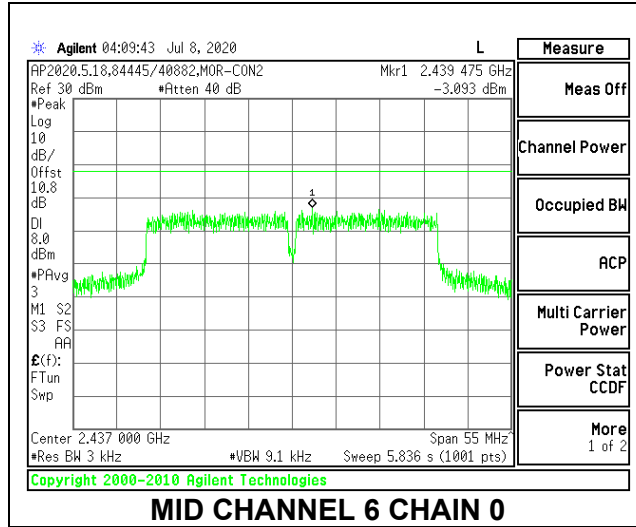
**PSD Results**

| Channel | Frequency<br>(MHz) | Chain 0<br>Meas<br>(dBm/<br>3kHz) | Chain 1<br>Meas<br>(dBm/<br>3kHz) | Total<br>Corr'd<br>PSD<br>(dBm/<br>3kHz) | Limit<br>(dBm/<br>3kHz) | Margin<br>(dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|--|-------------------------|----------------|
| Low 1   | 2412               | -2.75                             | -2.67                             | 0.30                                     | 8.0                     | -7.7           |
| Mid 6   | 2437               | -3.09                             | -3.17                             | -0.12                                    | 8.0                     | -8.1           |
| High 11 | 2462               | -2.77                             | -2.39                             | 0.44                                     | 8.0                     | -7.6           |

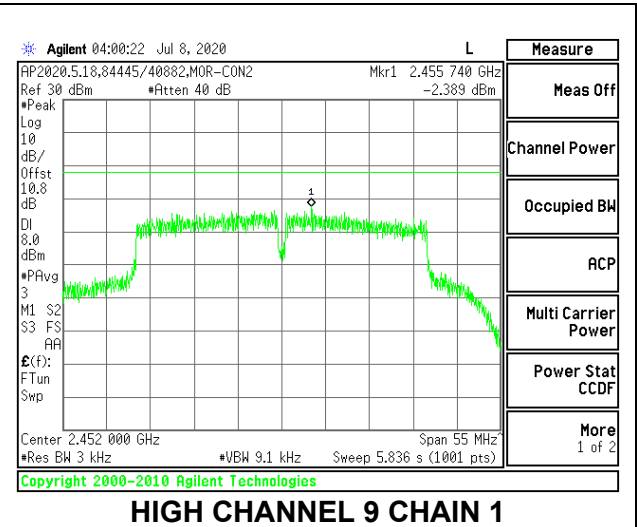
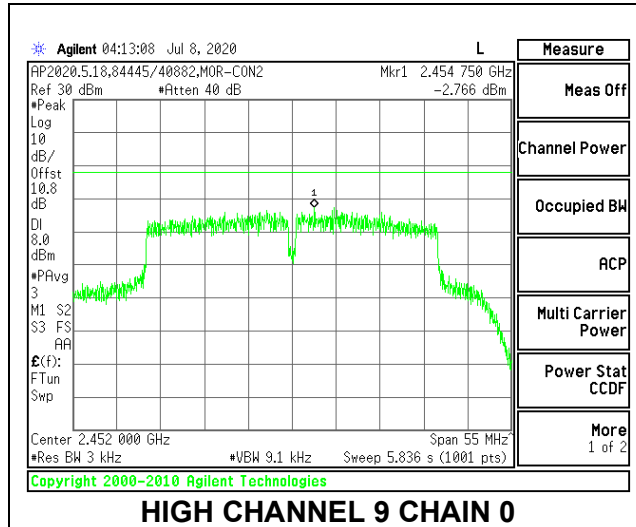
**LOW CHANNEL 3**



### MID CHANNEL 6



### HIGH CHANNEL 9



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## 9.6. CONDUCTED SPURIOUS EMISSIONS

### LIMITS

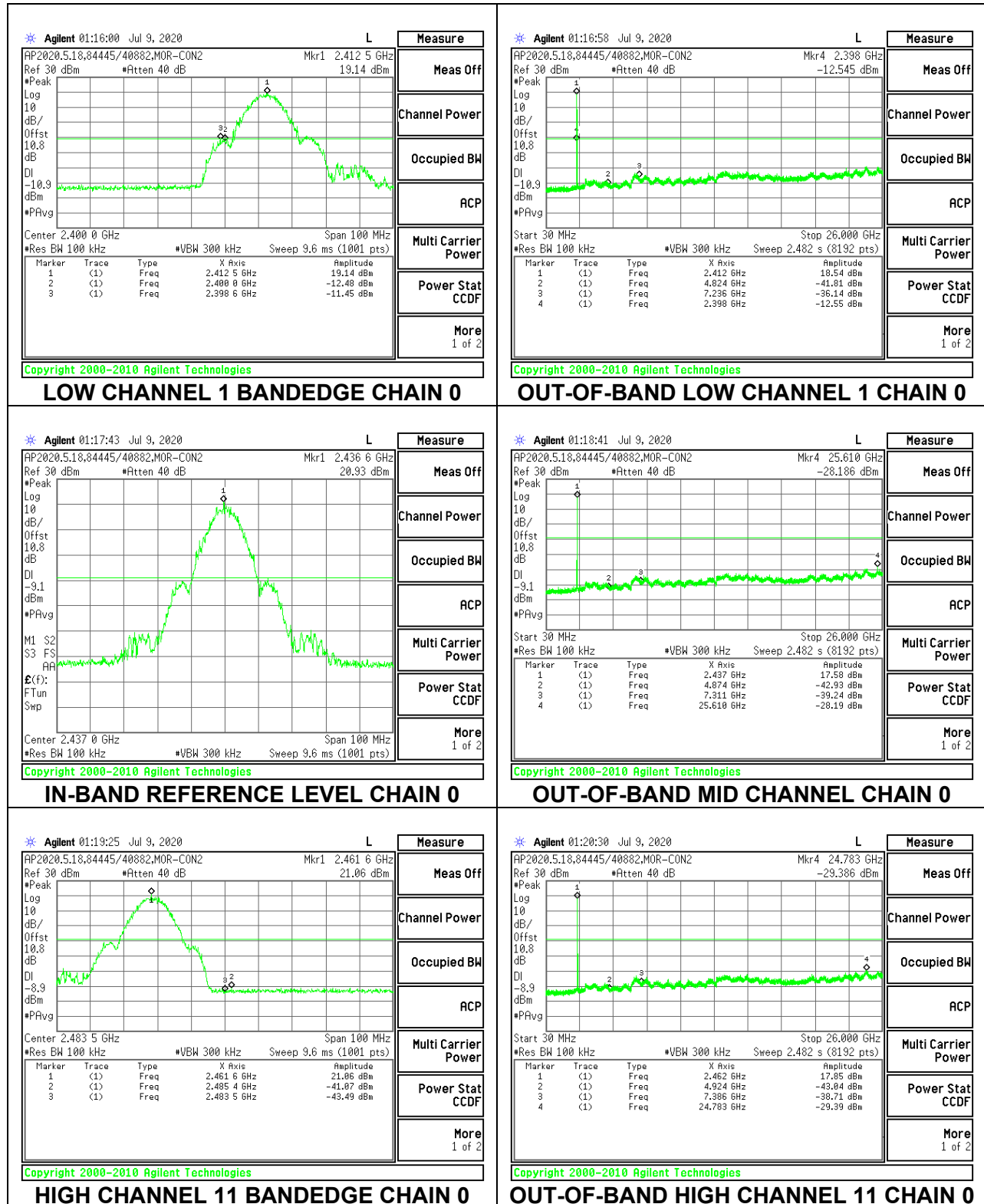
FCC §15.247 (d)  
RSS-247 5.5

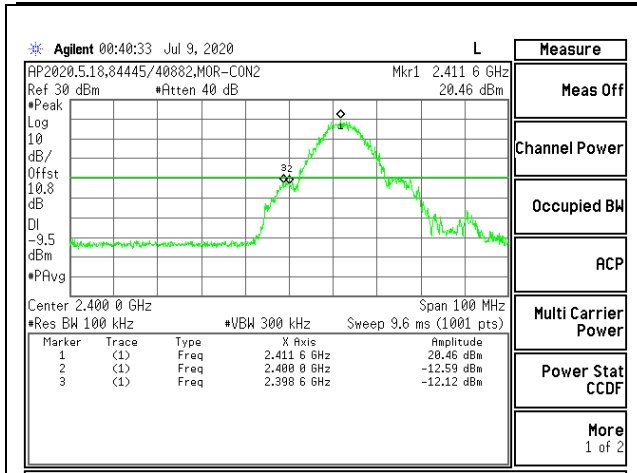
Output power was measured based on the use of peak measurement, therefore the required attenuation is 20 dB.

### RESULTS

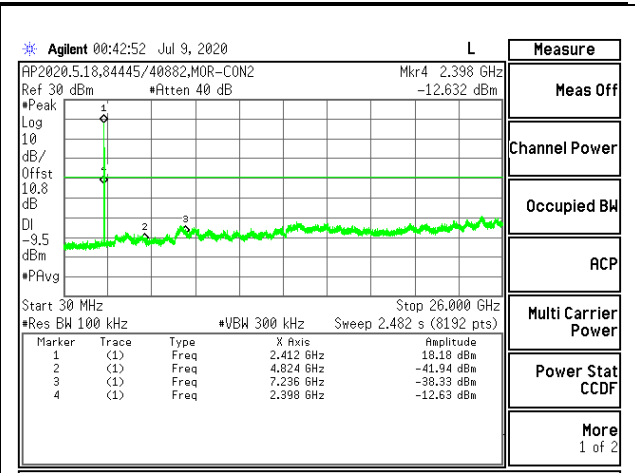
### 9.6.1. 802.11b MODE

#### 2TX Antenna 1 + Antenna 2 CDD MODE

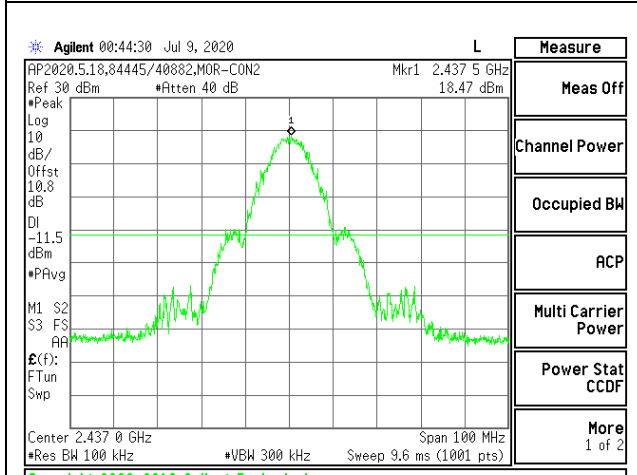




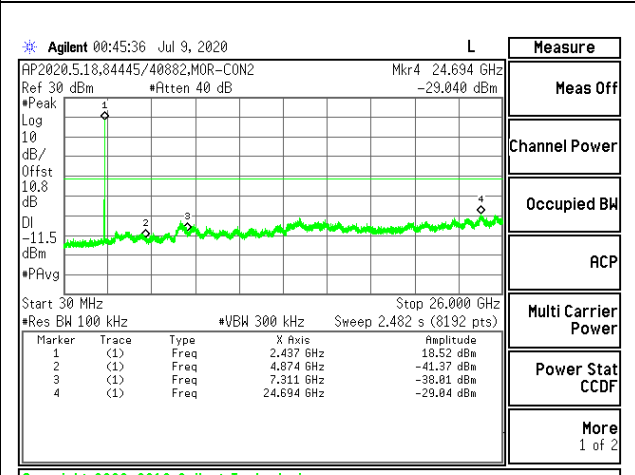
**LOW CHANNEL 1 BANDEDGE CHAIN 1**



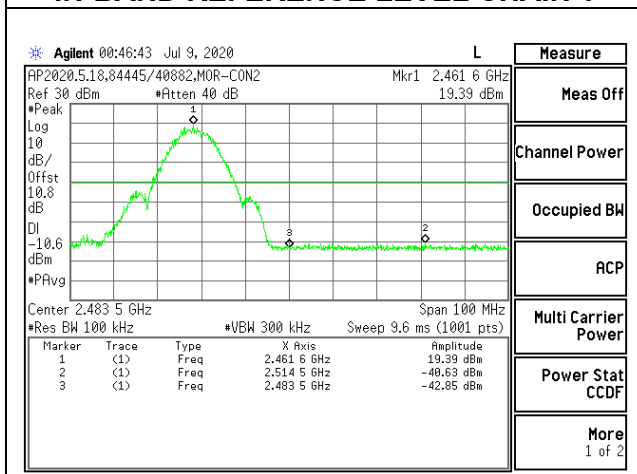
**OUT-OF-BAND LOW CHANNEL 1 CHAIN 1**



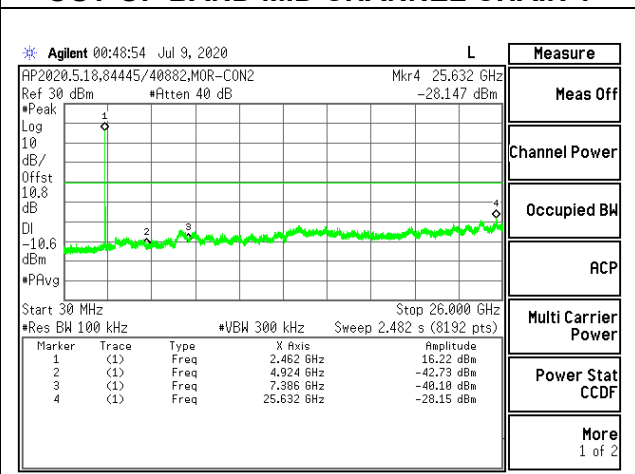
**IN-BAND REFERENCE LEVEL CHAIN 1**



**OUT-OF-BAND MID CHANNEL 1 CHAIN 1**



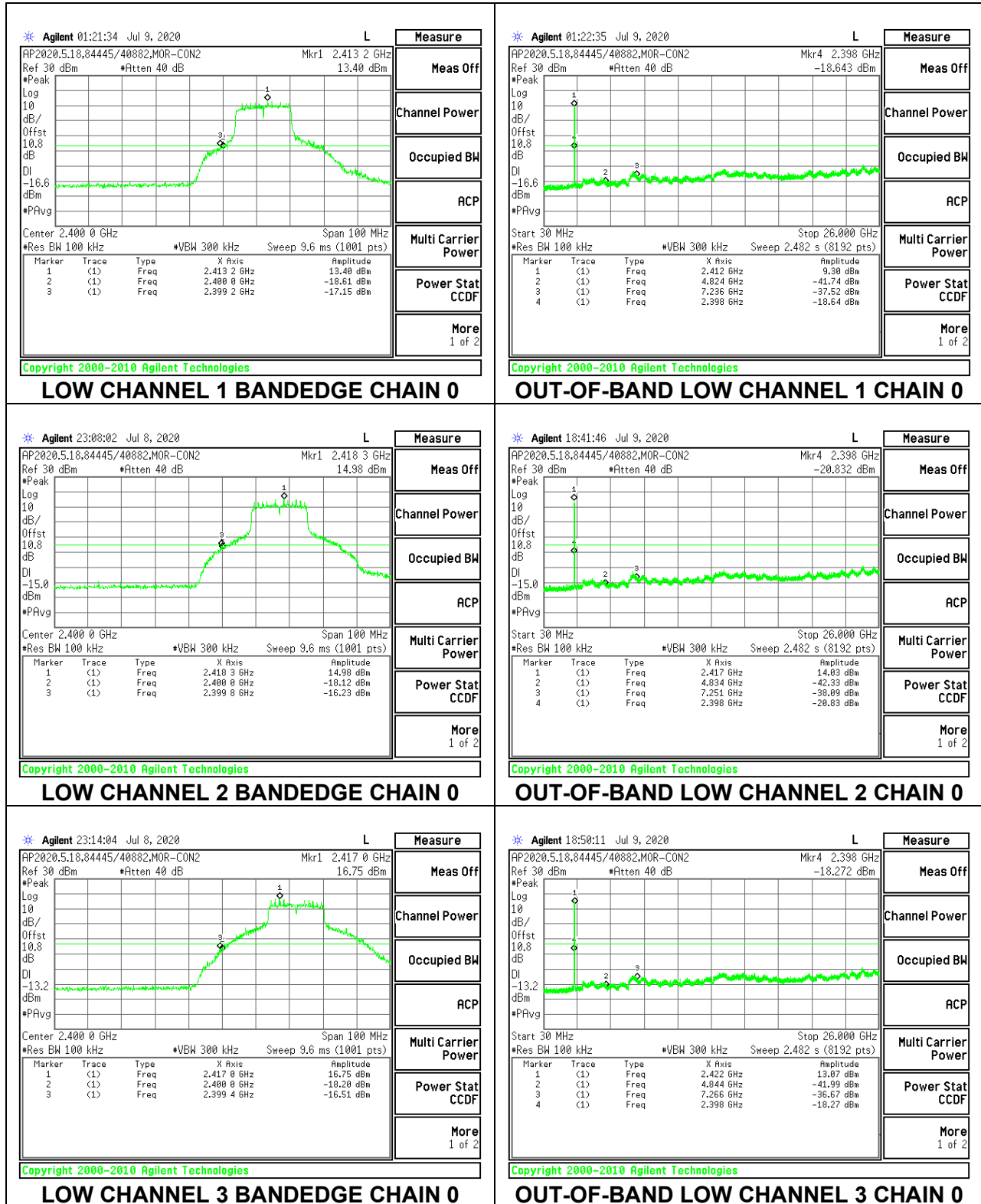
**HIGH CHANNEL 11 BANDEDGE CHAIN 1**

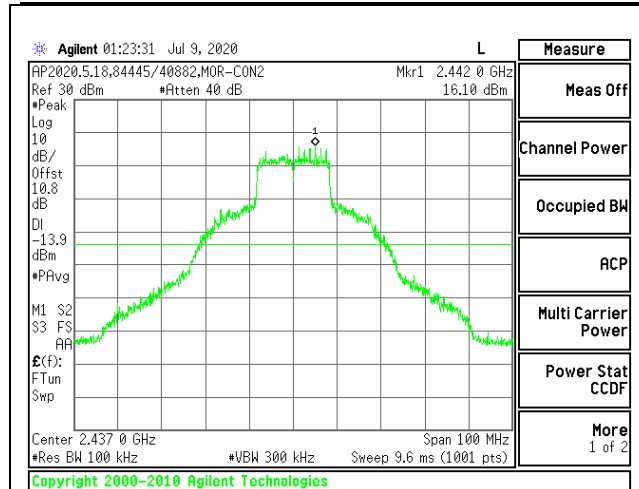


**OUT-OF-BAND HIGH CHANNEL 11 CHAIN 1**

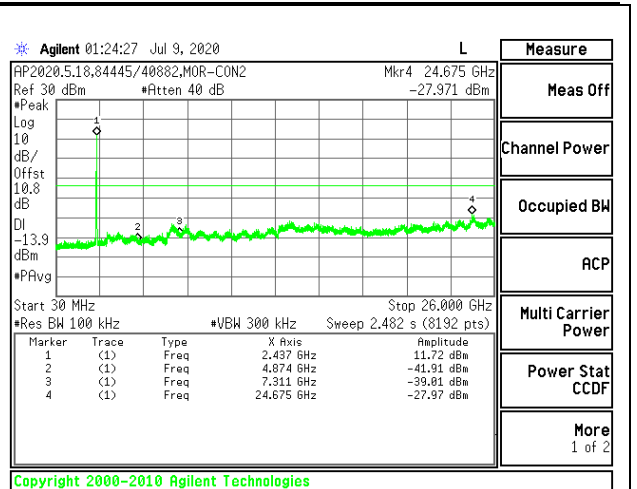
9.6.2. 802.11g MODE

2TX Antenna 1 + Antenna 2 CDD MODE

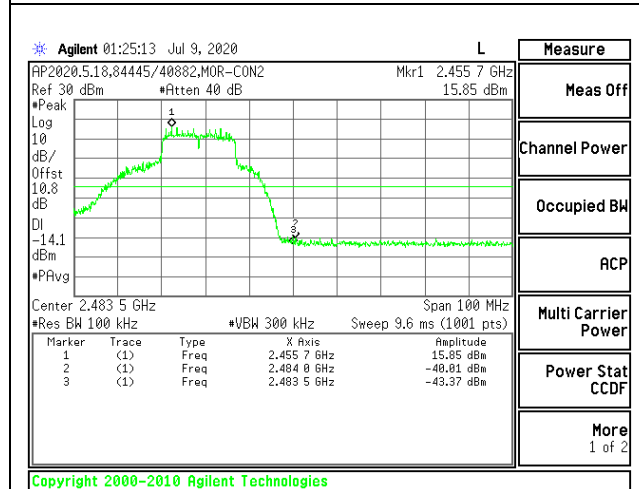




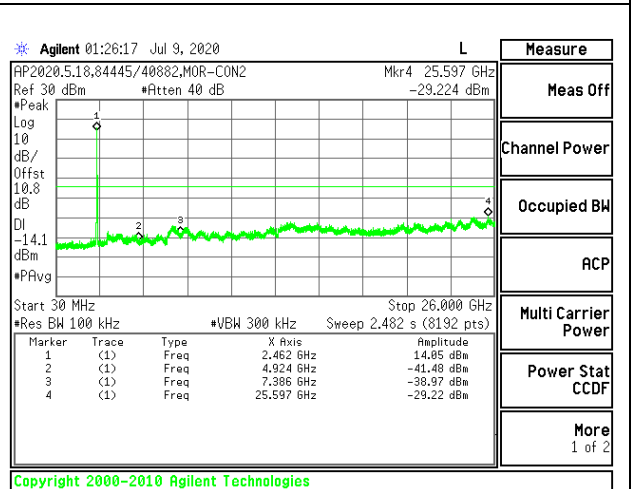
**IN-BAND REFERENCE LEVEL CHAIN 0**



**OUT-OF-BAND MID CHANNEL CHAIN 0**

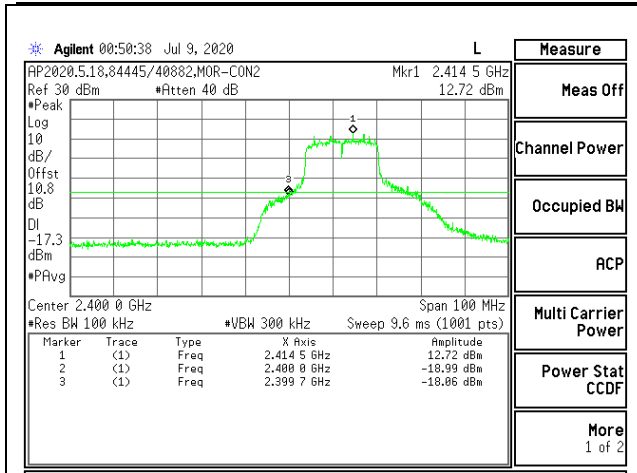


**HIGH CHANNEL 11 BANDEDGE CHAIN 0**

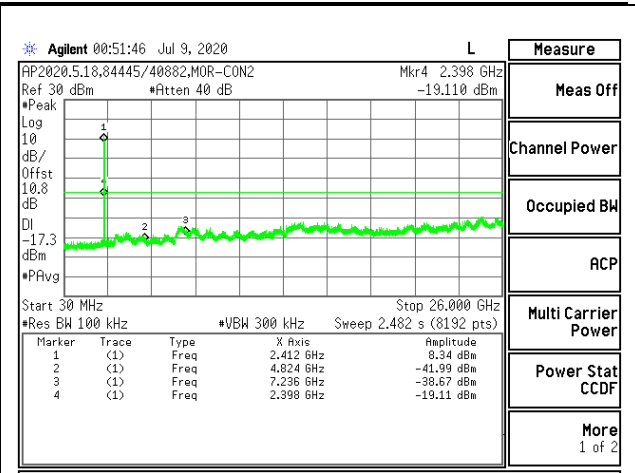


**OUT-OF-BAND HIGH CHANNEL 11 CHAIN 0**

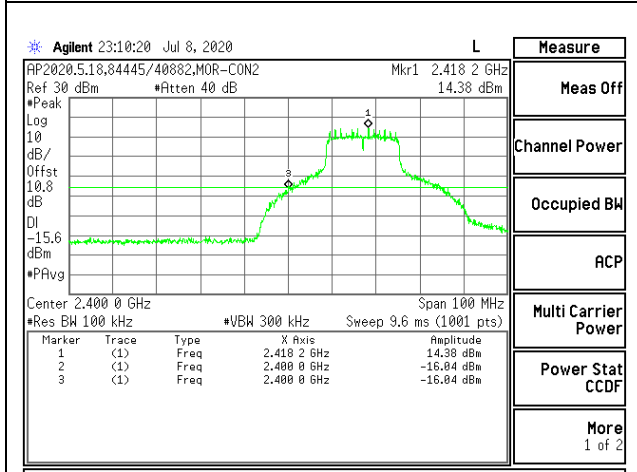




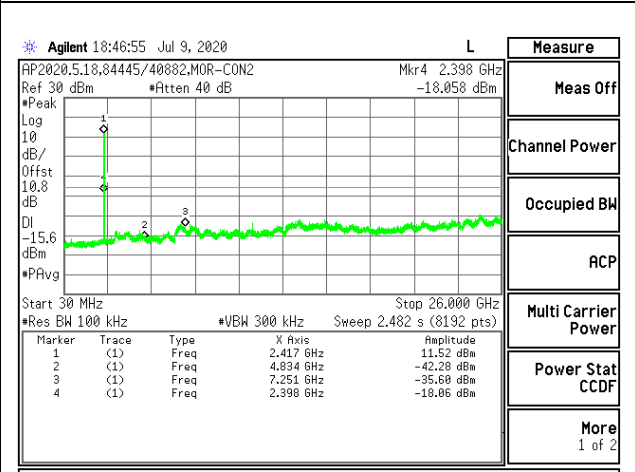
**LOW CHANNEL 1 BANDEDGE CHAIN 1**



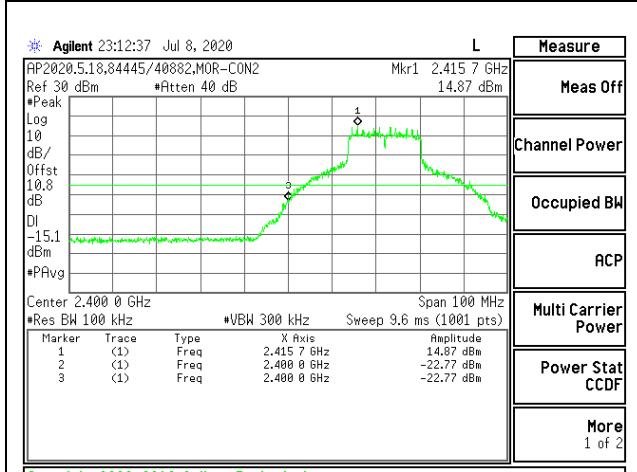
**OUT-OF-BAND LOW CHANNEL 1 CHAIN 1**



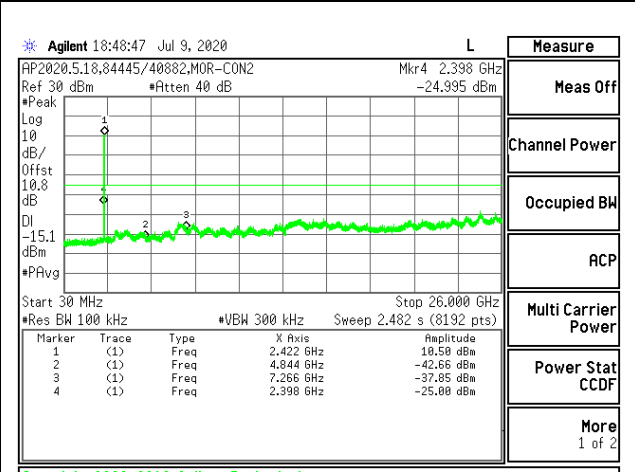
**LOW CHANNEL 2 BANDEDGE CHAIN 1**



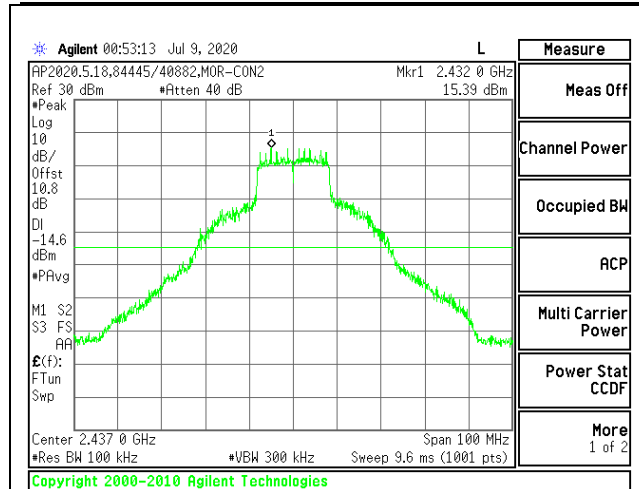
**OUT-OF-BAND LOW CHANNEL 2 CHAIN 1**



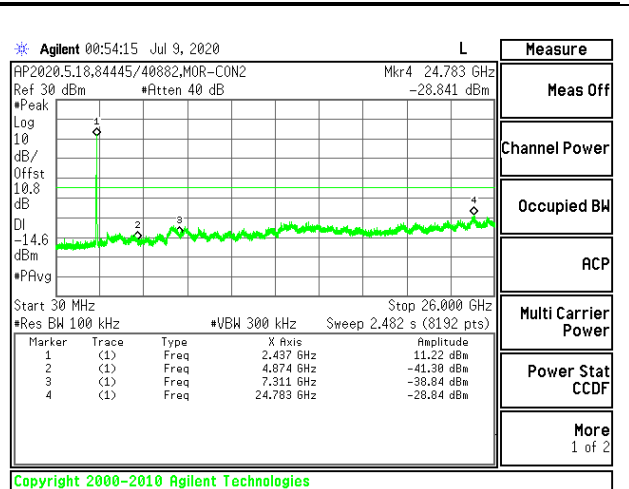
**LOW CHANNEL 3 BANDEDGE CHAIN 1**



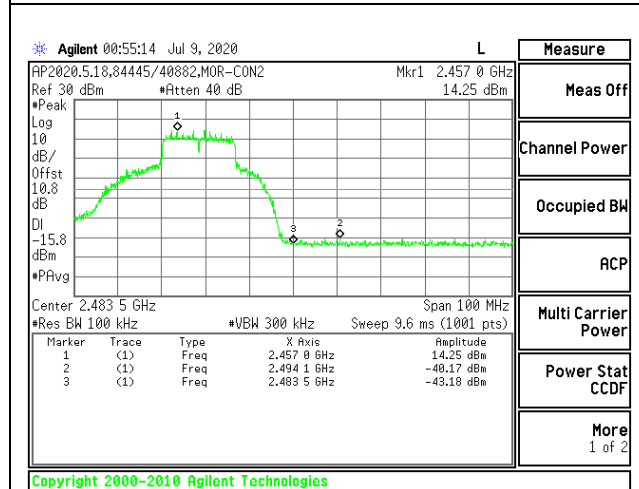
**OUT-OF-BAND LOW CHANNEL 3 CHAIN 1**



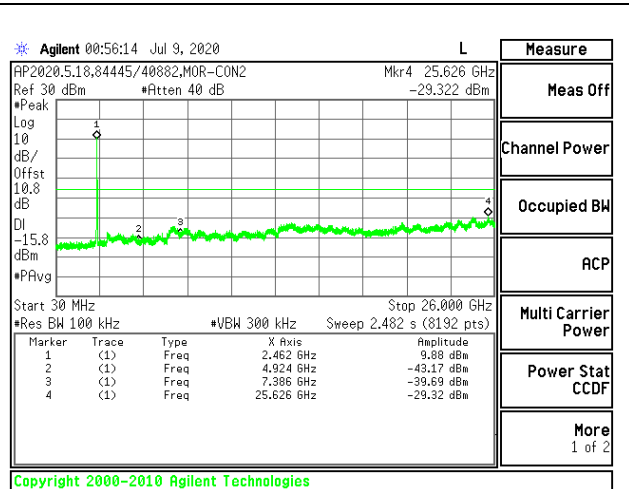
**IN-BAND REFERENCE LEVEL CHAIN 1**



**OUT-OF-BAND MID CHANNEL CHAIN 1**



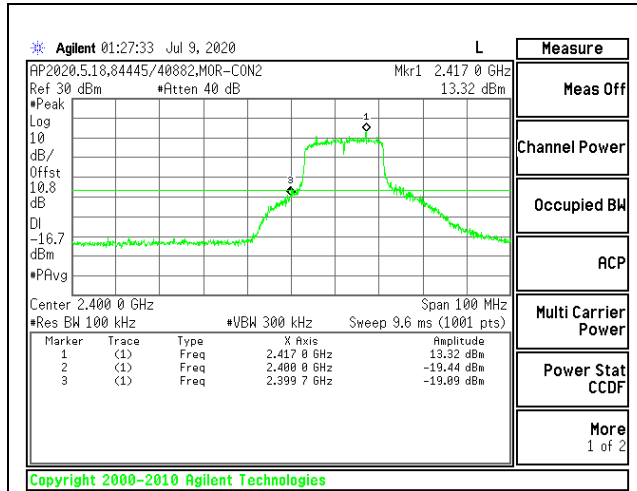
**HIGH CHANNEL 11 BANDEDGE CHAIN 1**



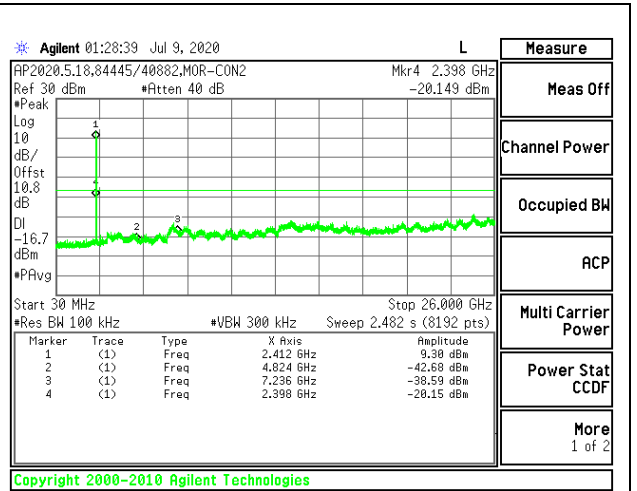
**OUT-OF-BAND HIGH CHANNEL 11 CHAIN 1**

9.6.3. 802.11n HT20 MODE

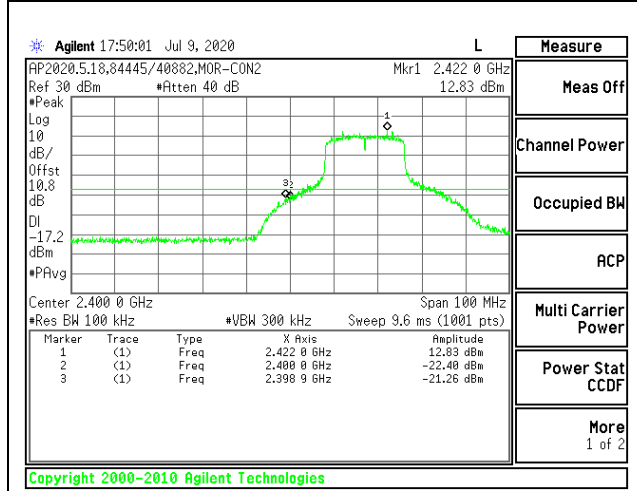
2TX Antenna 1 + Antenna 2 CDD MODE



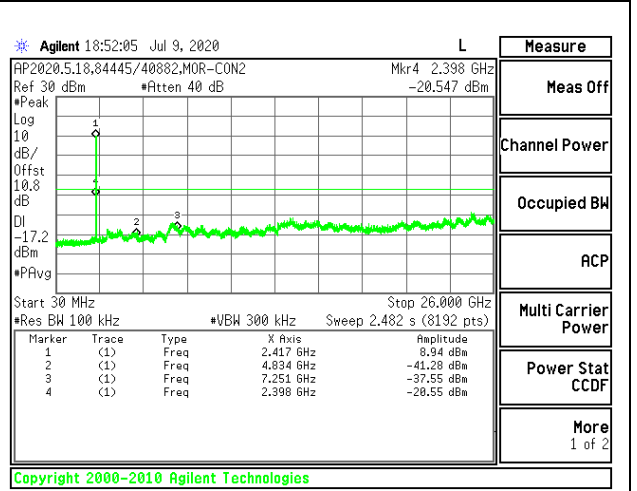
LOW CHANNEL 1 BANDEDGE CHAIN 0



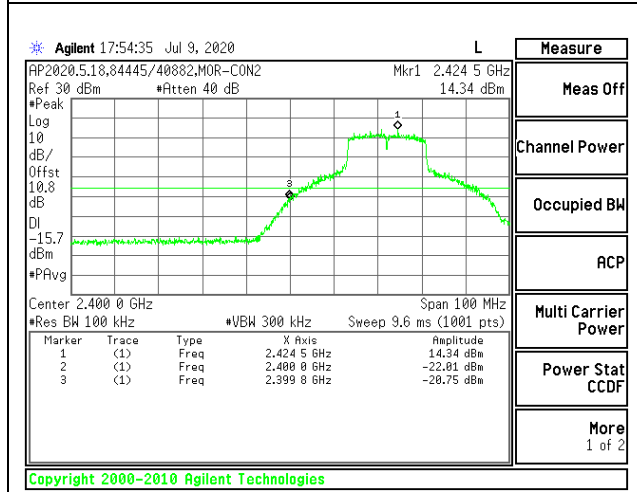
OUT-OF-BAND LOW CHANNEL 1 CHAIN 0



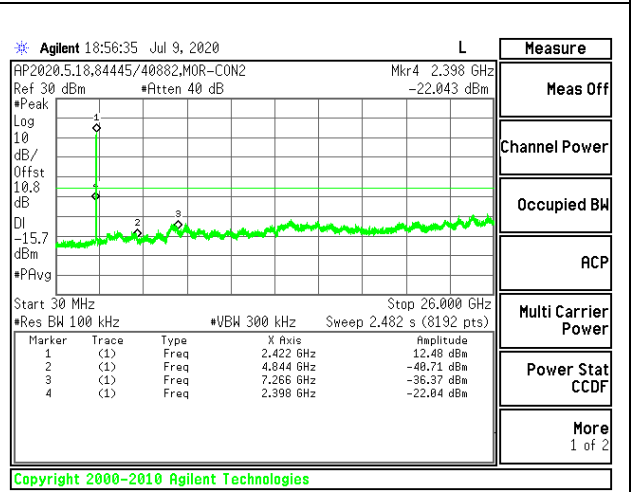
LOW CHANNEL 2 BANDEDGE CHAIN 0



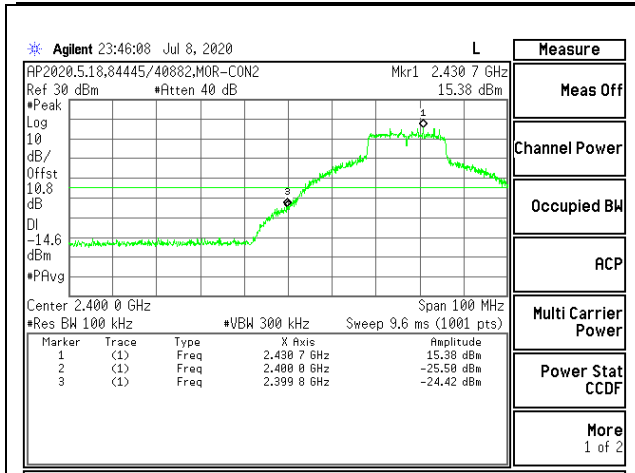
OUT-OF-BAND LOW CHANNEL 2 CHAIN 0



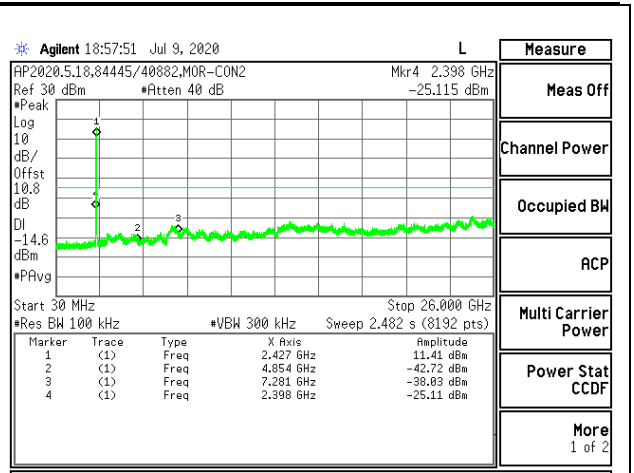
LOW CHANNEL 3 BANDEDGE CHAIN 0



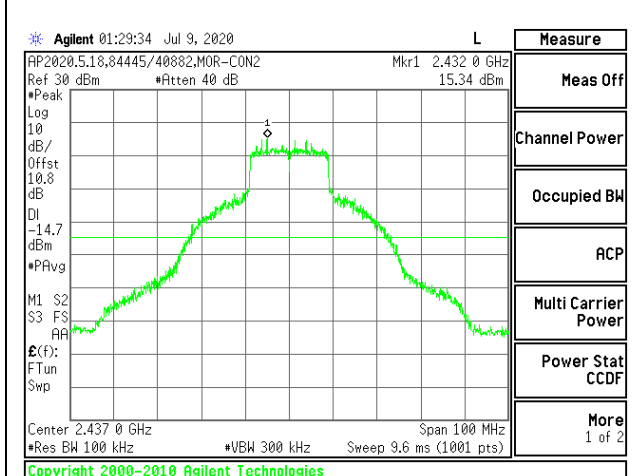
OUT-OF-BAND LOW CHANNEL 3 CHAIN 0



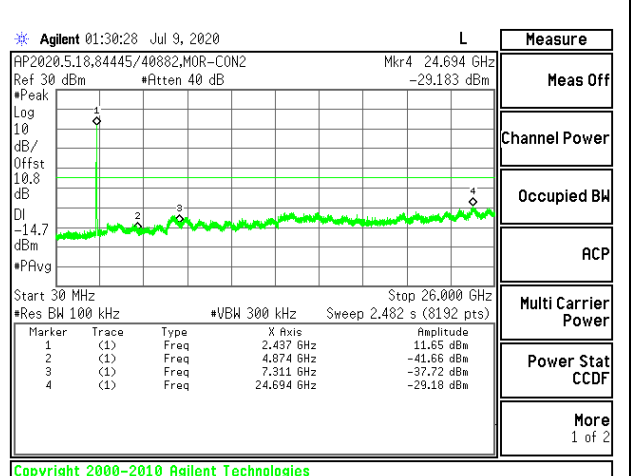
**LOW CHANNEL 4 BANDEDGE CHAIN 0**



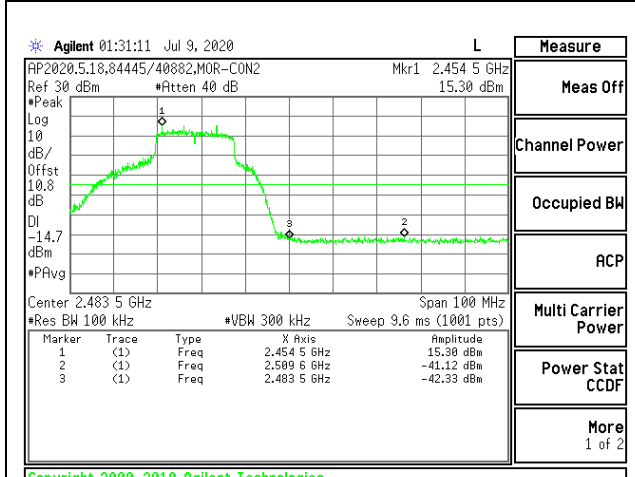
**OUT-OF-BAND LOW CHANNEL 4 CHAIN 0**



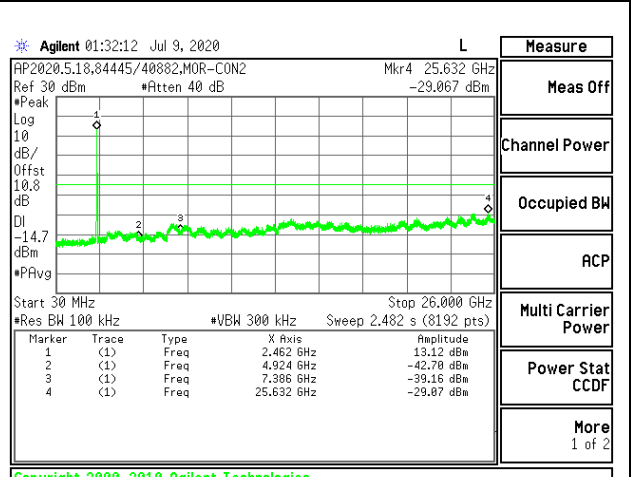
**IN-BAND REFERENCE LEVEL CHAIN 0**



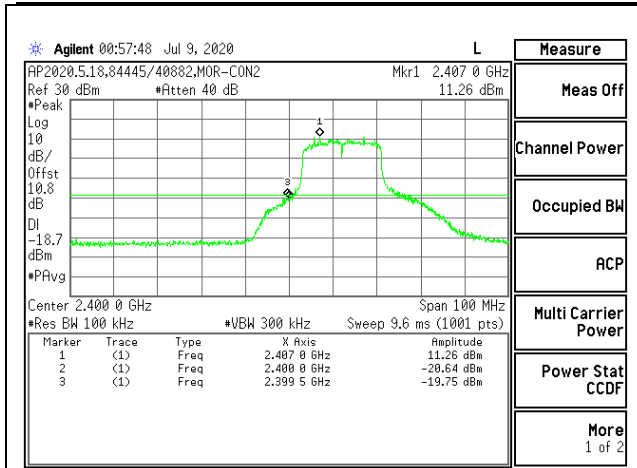
**OUT-OF-BAND MID CHANNEL CHAIN 0**



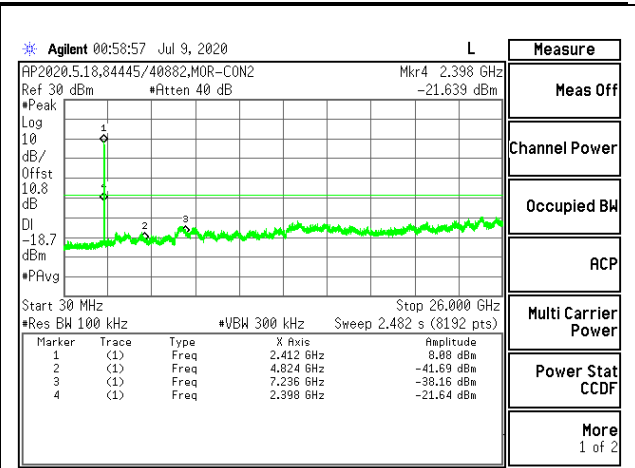
**HIGH CHANNEL 11 BANDEDGE CHAIN 0**



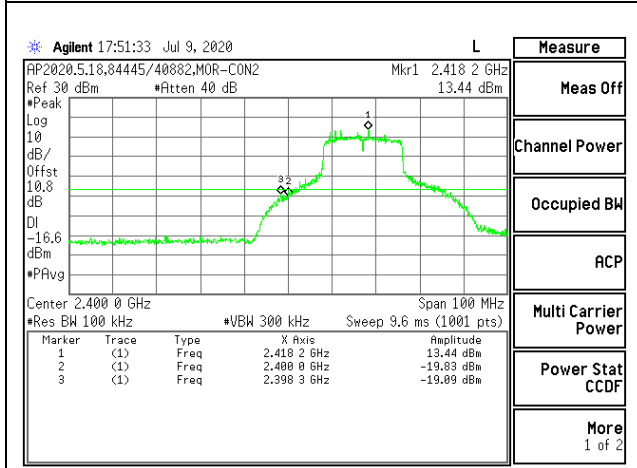
**OUT-OF-BAND HIGH CHANNEL 11 CHAIN 0**



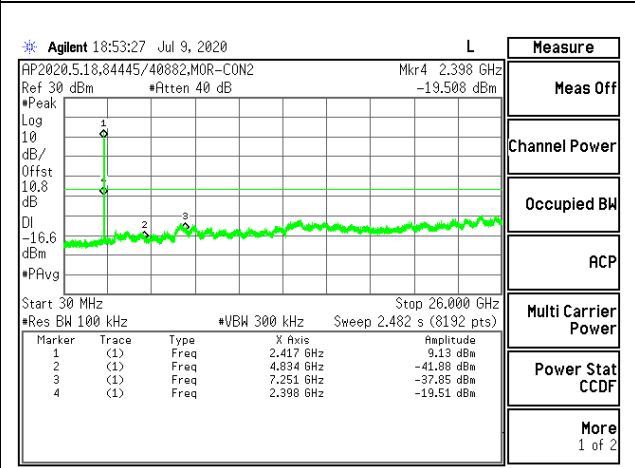
LOW CHANNEL 1 BANDEDGE CHAIN 1



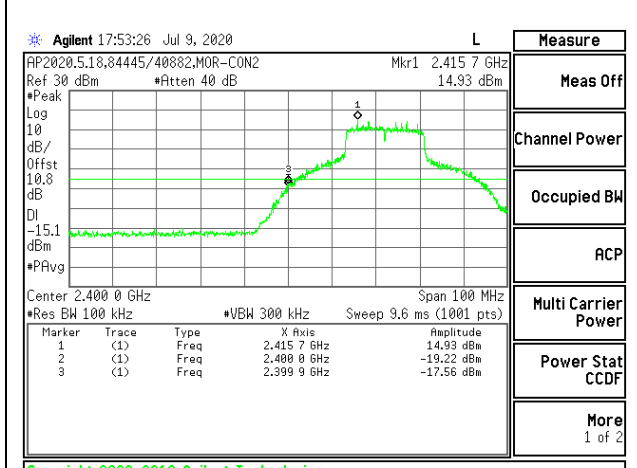
OUT-OF-BAND LOW CHANNEL 1 CHAIN 1



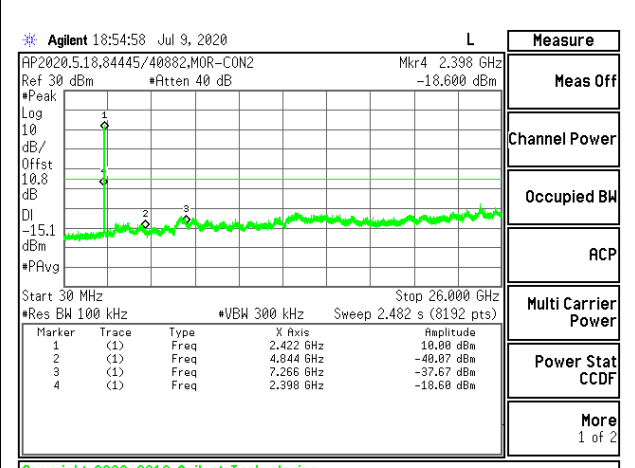
LOW CHANNEL 2 BANDEDGE CHAIN 0



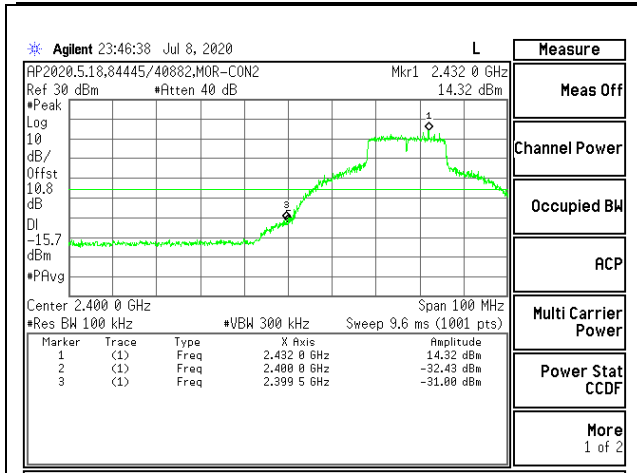
OUT-OF-BAND LOW CHANNEL 2 CHAIN 0



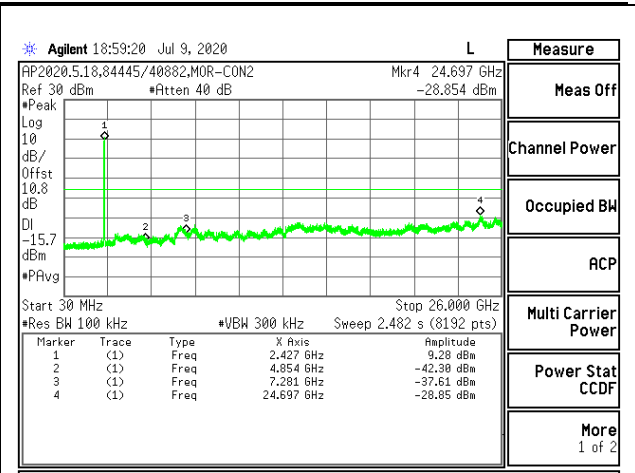
LOW CHANNEL 3 BANDEDGE CHAIN 0



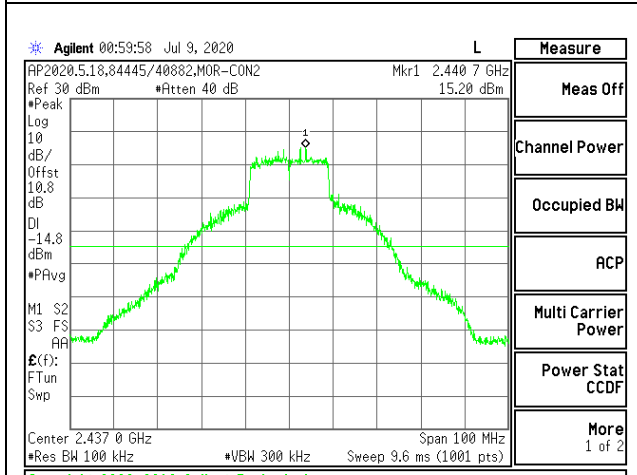
OUT-OF-BAND LOW CHANNEL 3 CHAIN 0



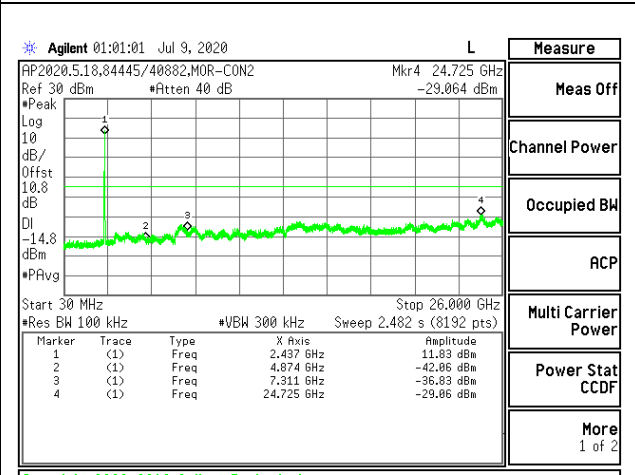
**LOW CHANNEL 4 BANDEDGE CHAIN 0**



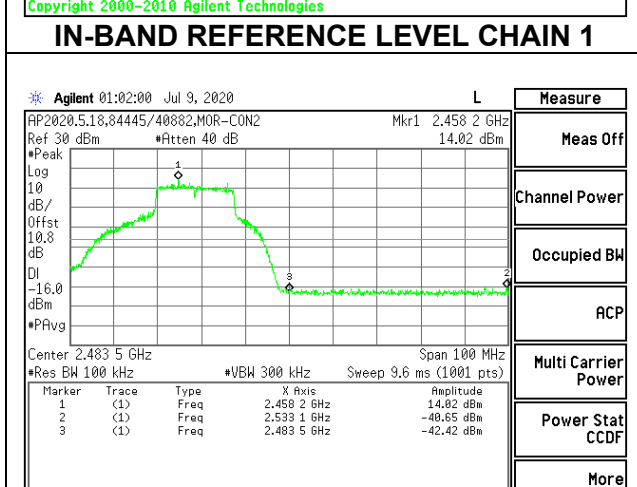
**OUT-OF-BAND LOW CHANNEL 4 CHAIN 0**



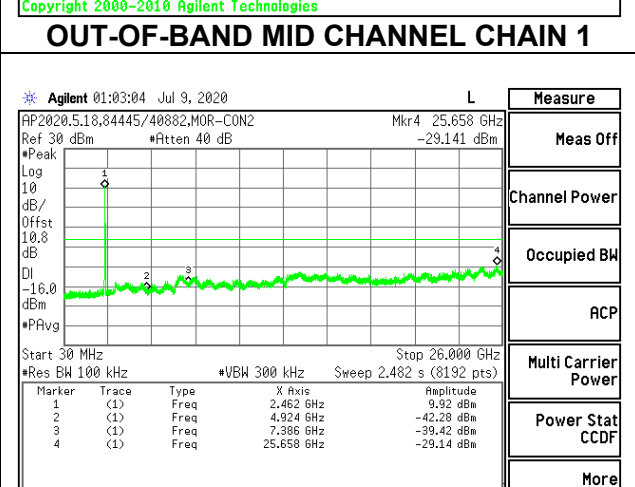
**IN-BAND REFERENCE LEVEL CHAIN 1**



**OUT-OF-BAND MID CHANNEL CHAIN 1**



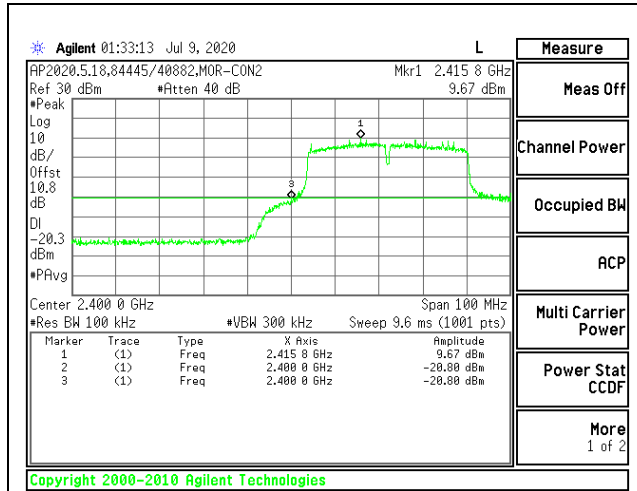
**HIGH CHANNEL 11 BANDEDGE CHAIN 1**



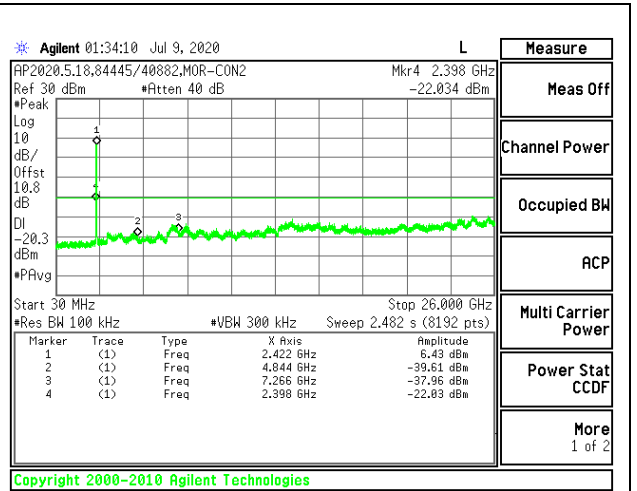
**OUT-OF-BAND HIGH CHANNEL 11 CHAIN 1**

**9.6.4. 802.11n HT40 MODE**

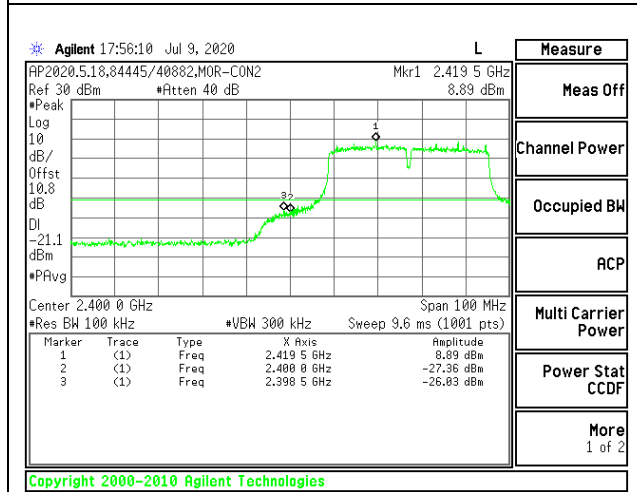
**2TX Antenna 1 + Antenna 2 CDD MODE**



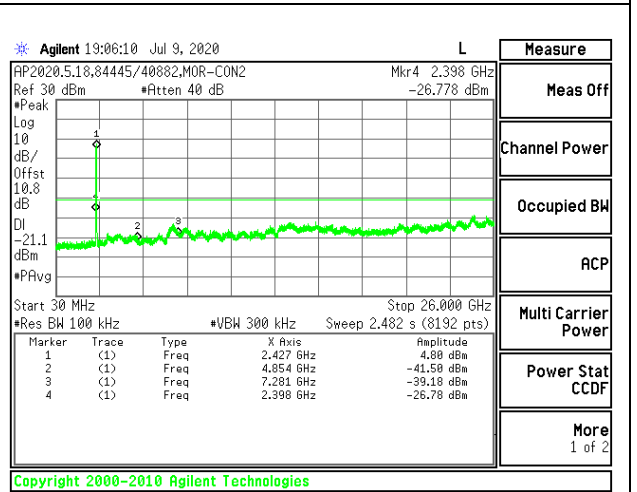
**LOW CHANNEL 3 BANDEDGE CHAIN 0**



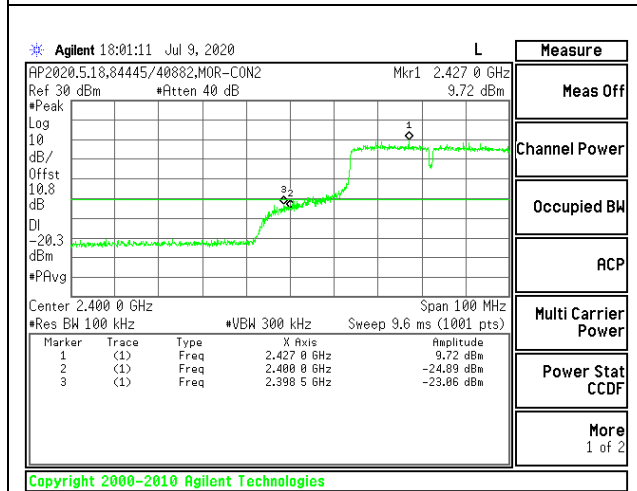
**OUT-OF-BAND LOW CHANNEL 3 CHAIN 0**



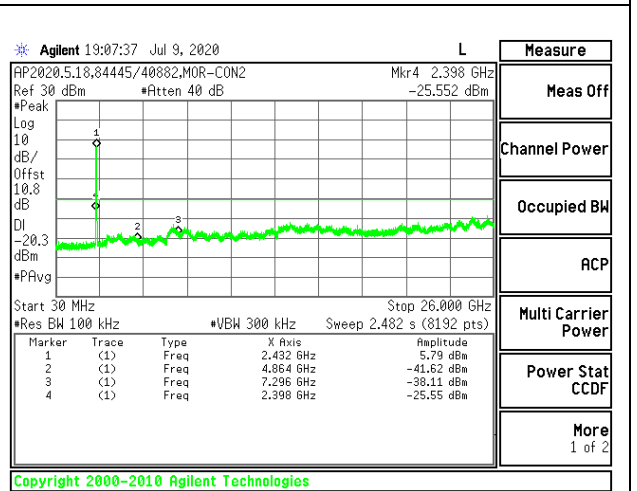
**LOW CHANNEL 4 BANDEDGE CHAIN 0**



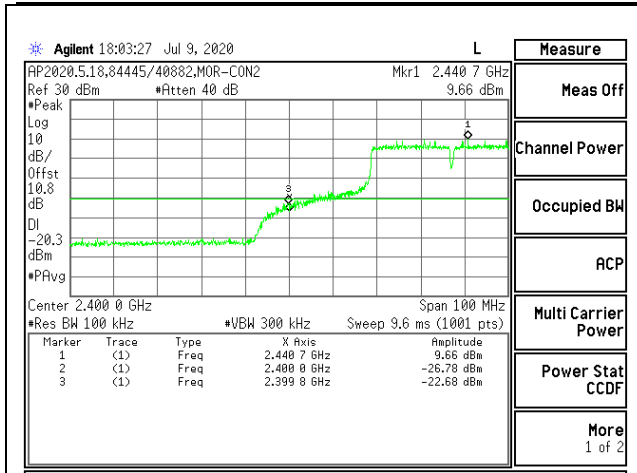
**OUT-OF-BAND LOW CHANNEL 4 CHAIN 0**



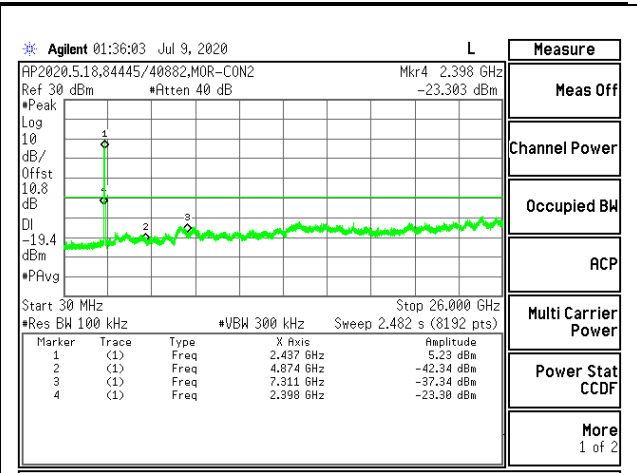
**LOW CHANNEL 5 BANDEDGE CHAIN 0**



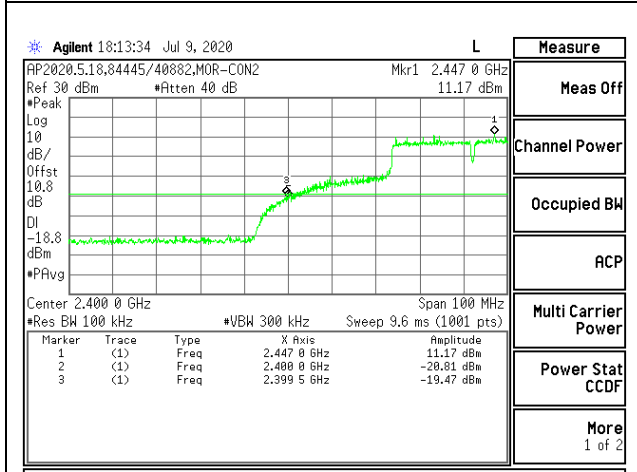
**OUT-OF-BAND LOW CHANNEL 5 CHAIN 0**



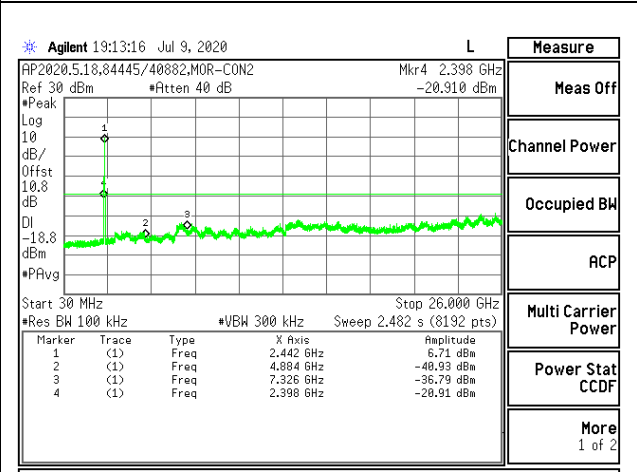
**IN-BAND REFERENCE LEVEL CHAIN 0**



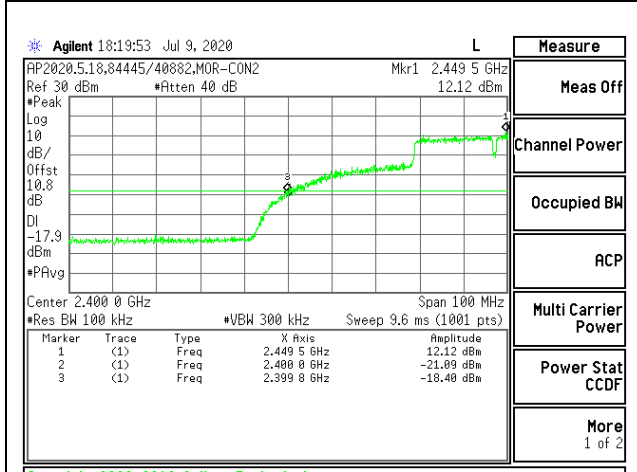
**OUT-OF-BAND MID CHANNEL CHAIN 0**



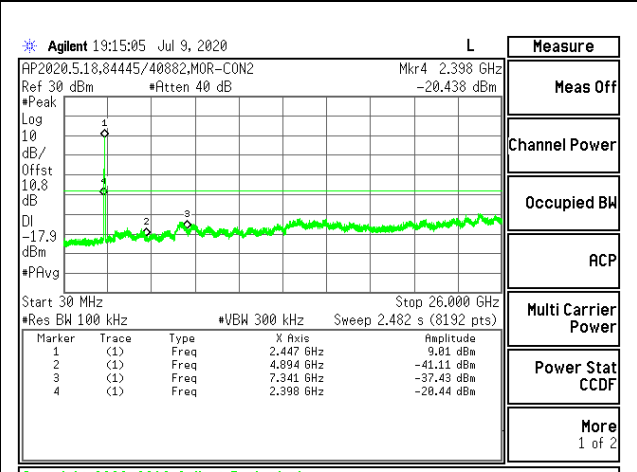
**LOW CHANNEL 7 BANDEDGE CHAIN 0**



**OUT-OF-BAND LOW CHANNEL 7 CHAIN 0**

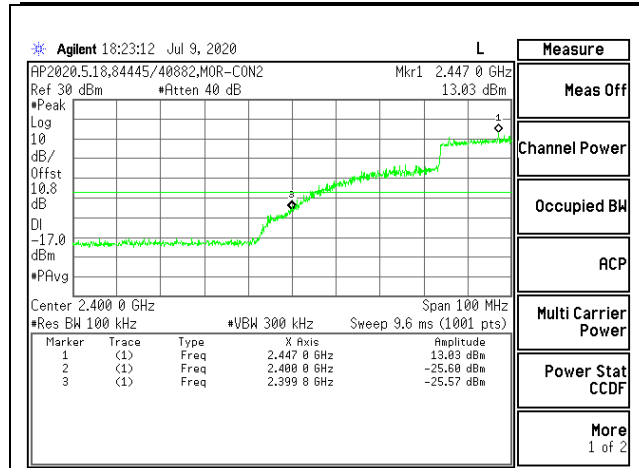


**HIGH CHANNEL 8 BANDEDGE CHAIN 0**

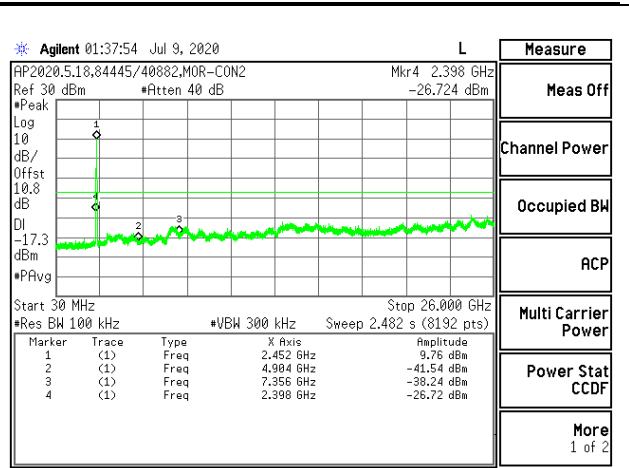


**OUT-OF-BAND HIGH CHANNEL 8 CHAIN 0**

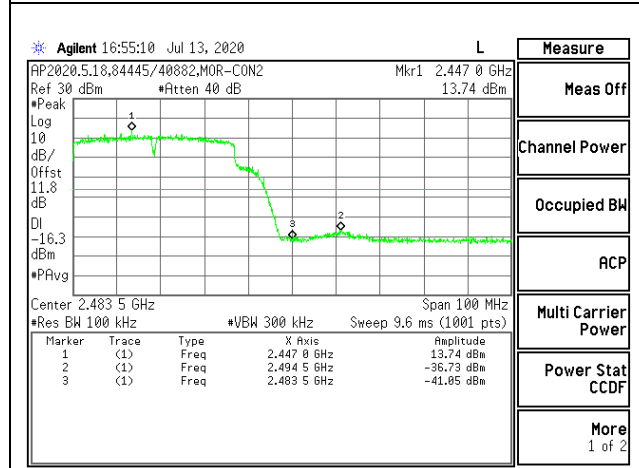




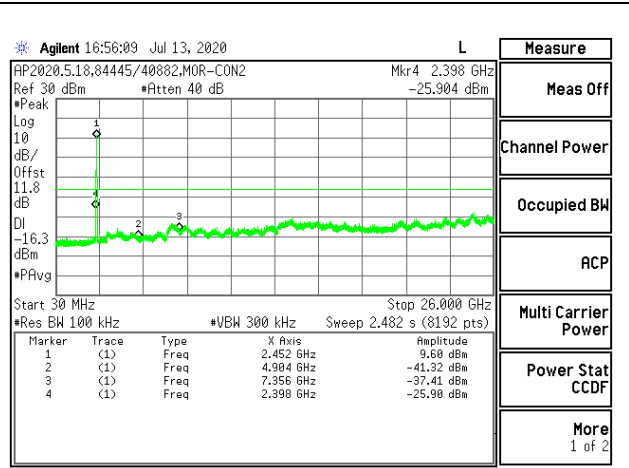
**LOW CHANNEL 9 BANDEDGE CHAIN 0**



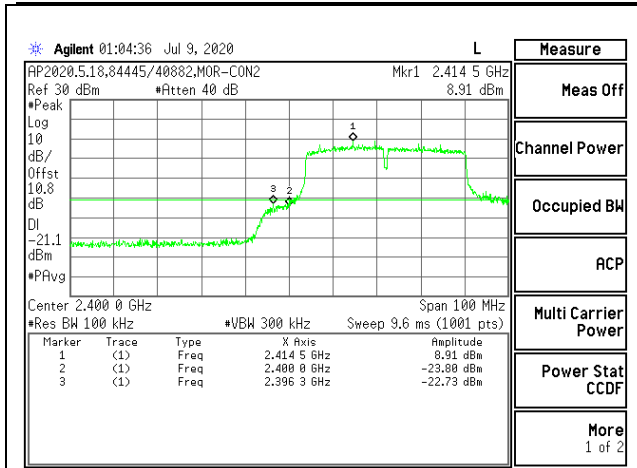
**OUT-OF-BAND LOW CHANNEL 9 CHAIN 0**



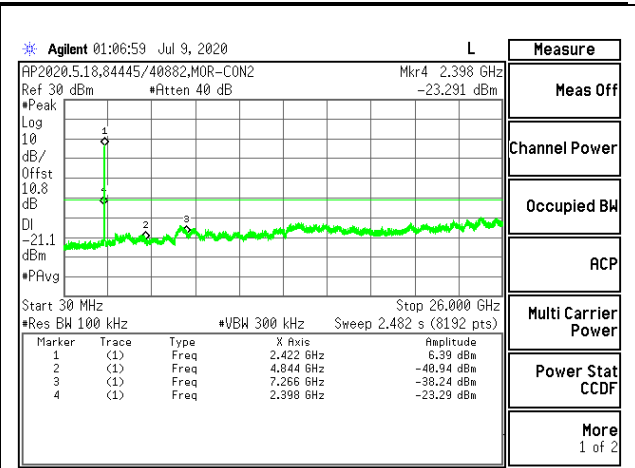
**HIGH CHANNEL 9 BANDEDGE CHAIN 0**



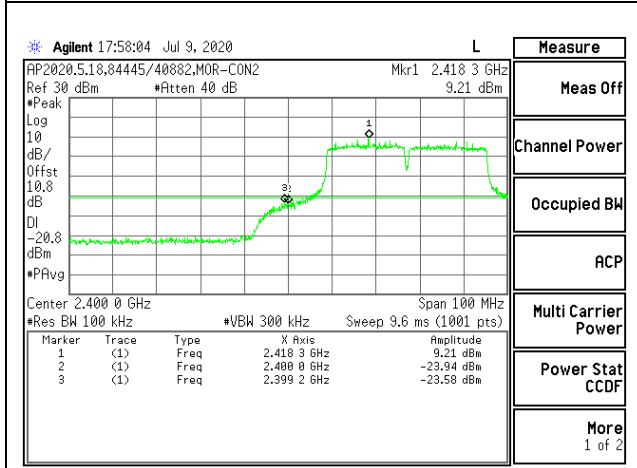
**OUT-OF-BAND HIGH CHANNEL 9 CHAIN 0**



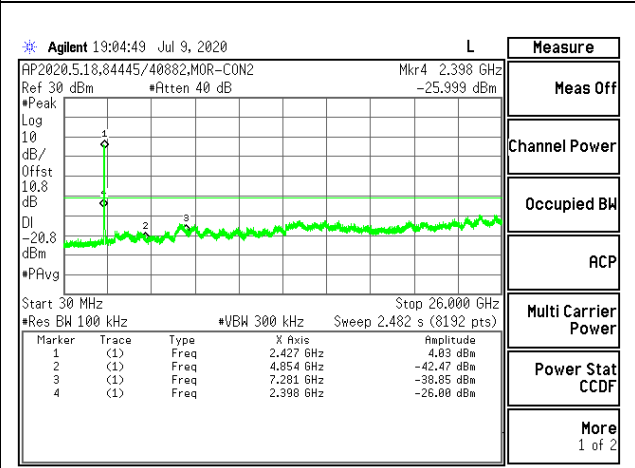
**LOW CHANNEL 3 BANDEDGE CHAIN 1**



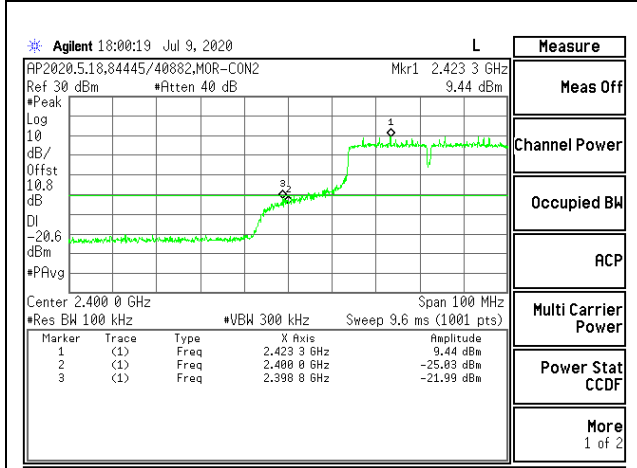
**OUT-OF-BAND LOW CHANNEL 3 CHAIN 1**



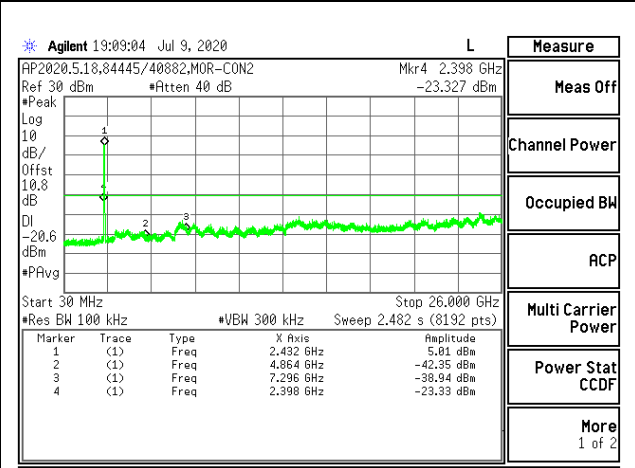
**LOW CHANNEL 4 BANDEDGE CHAIN 0**



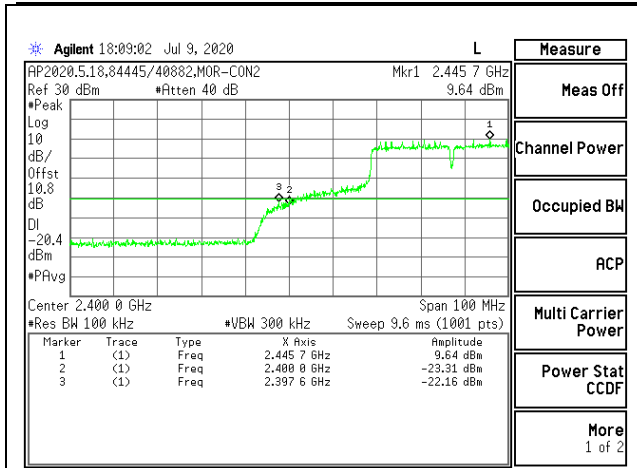
**OUT-OF-BAND LOW CHANNEL 4 CHAIN 0**



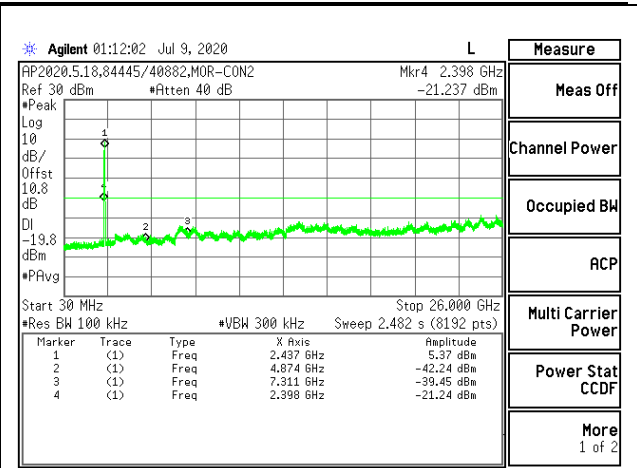
**LOW CHANNEL 5 BANDEDGE CHAIN 0**



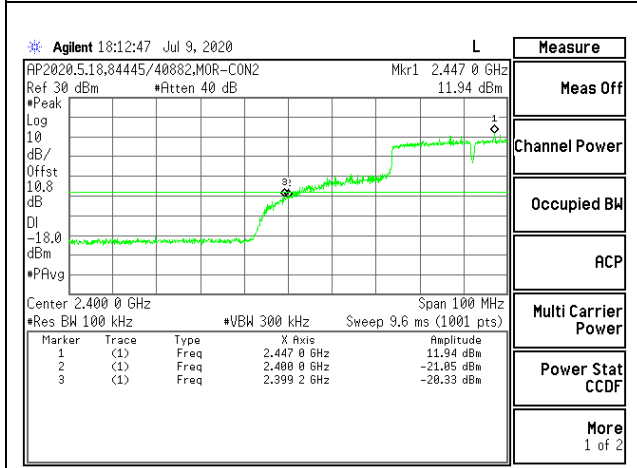
**OUT-OF-BAND LOW CHANNEL 5 CHAIN 0**



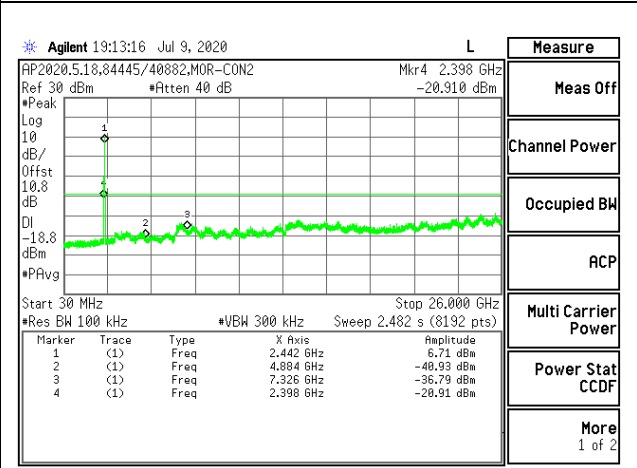
**IN-BAND REFERENCE LEVEL CHAIN 1**



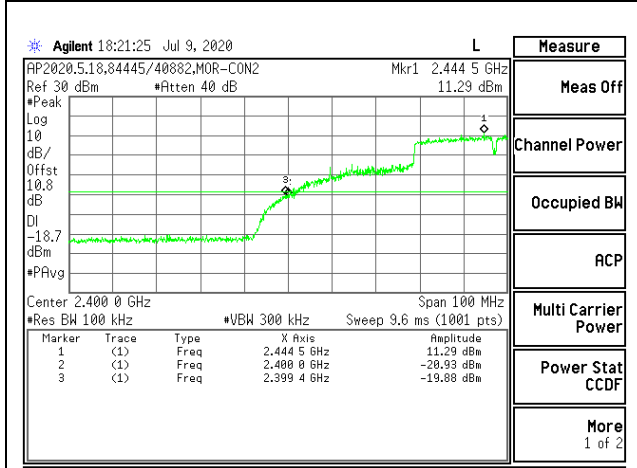
**OUT-OF-BAND MID CHANNEL CHAIN 1**



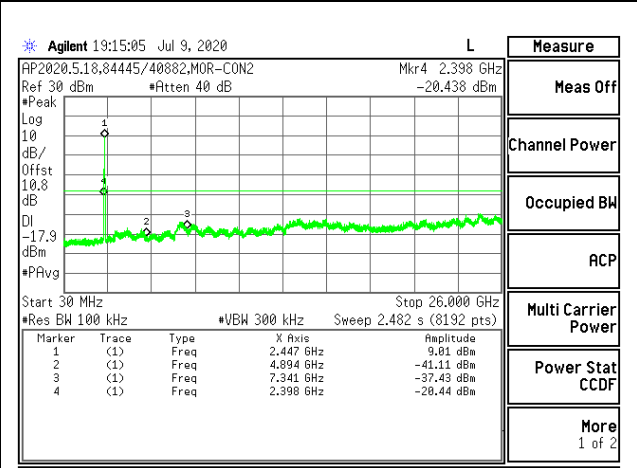
**LOW CHANNEL 7 BANDEDGE CHAIN 0**



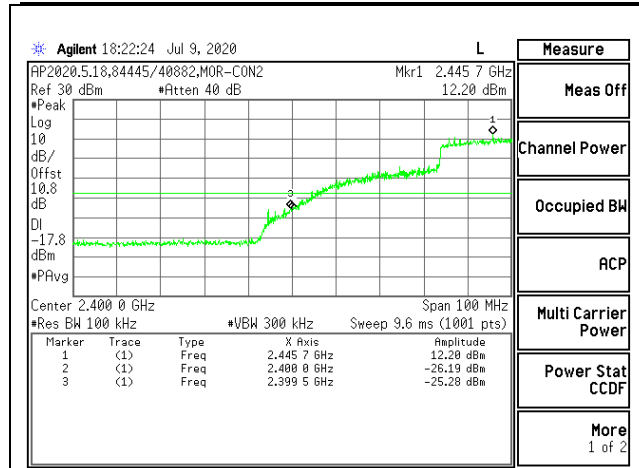
**OUT-OF-BAND LOW CHANNEL 7 CHAIN 0**



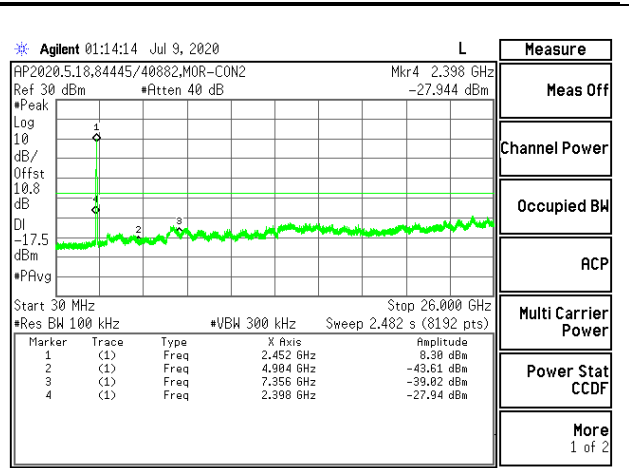
**HIGH CHANNEL 8 BANDEDGE CHAIN 0**



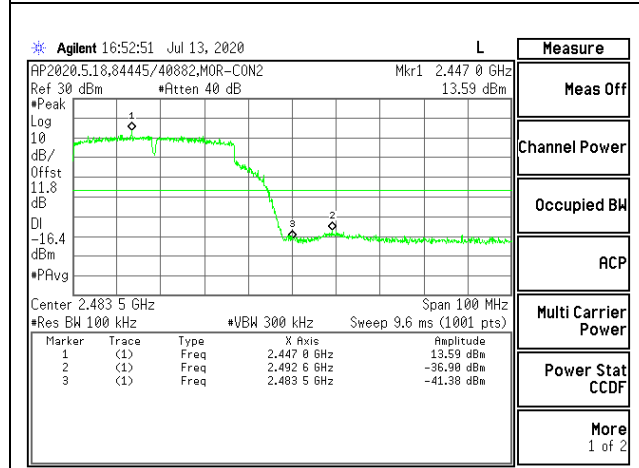
**OUT-OF-BAND HIGH CHANNEL 8 CHAIN 0**



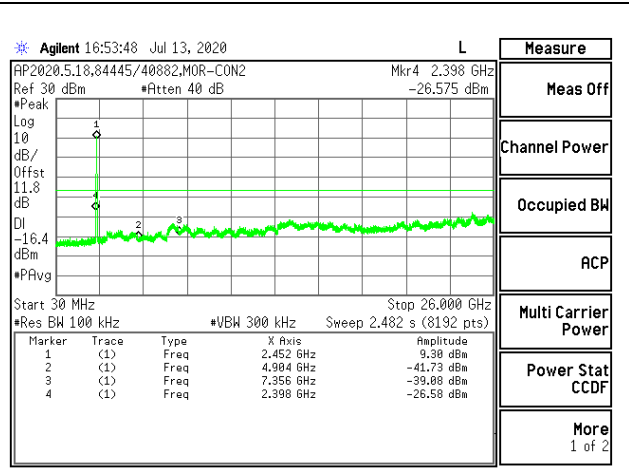
**LOW CHANNEL 9 BANDEDGE CHAIN 1**



**OUT-OF-BAND LOW CHANNEL 9 CHAIN 1**



**HIGH CHANNEL 9 BANDEDGE CHAIN 1**



**OUT-OF-BAND HIGH CHANNEL 9 CHAIN 1**

## 10. RADIATED TEST RESULTS

### LIMITS

FCC §15.205 and §15.209  
RSS-GEN, Section 8.9 and 8.10

| Frequency Range (MHz) | Field Strength Limit (uV/m) at 3 m | Field Strength Limit (dBuV/m) at 3 m |
|-----------------------|------------------------------------|--------------------------------------|
| 0.009-0.490           | 2400/F(kHz) @ 300 m                | -                                    |
| 0.490-1.705           | 24000/F(kHz) @ 30 m                | -                                    |
| 1.705 - 30            | 30 @ 30m                           | -                                    |
| 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 80 cm above the ground plane for measurement below 1GHz; 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 measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz 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 average measurements.

The spectrum from 1 GHz to 18 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band. Below 1GHz and above 18GHz emissions, the channel with the highest output power was tested.

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.

3D antenna use - For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel).

**KDB 414788 Open Field Site(OFS) and Chamber Correlation Justification**

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

OFS and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

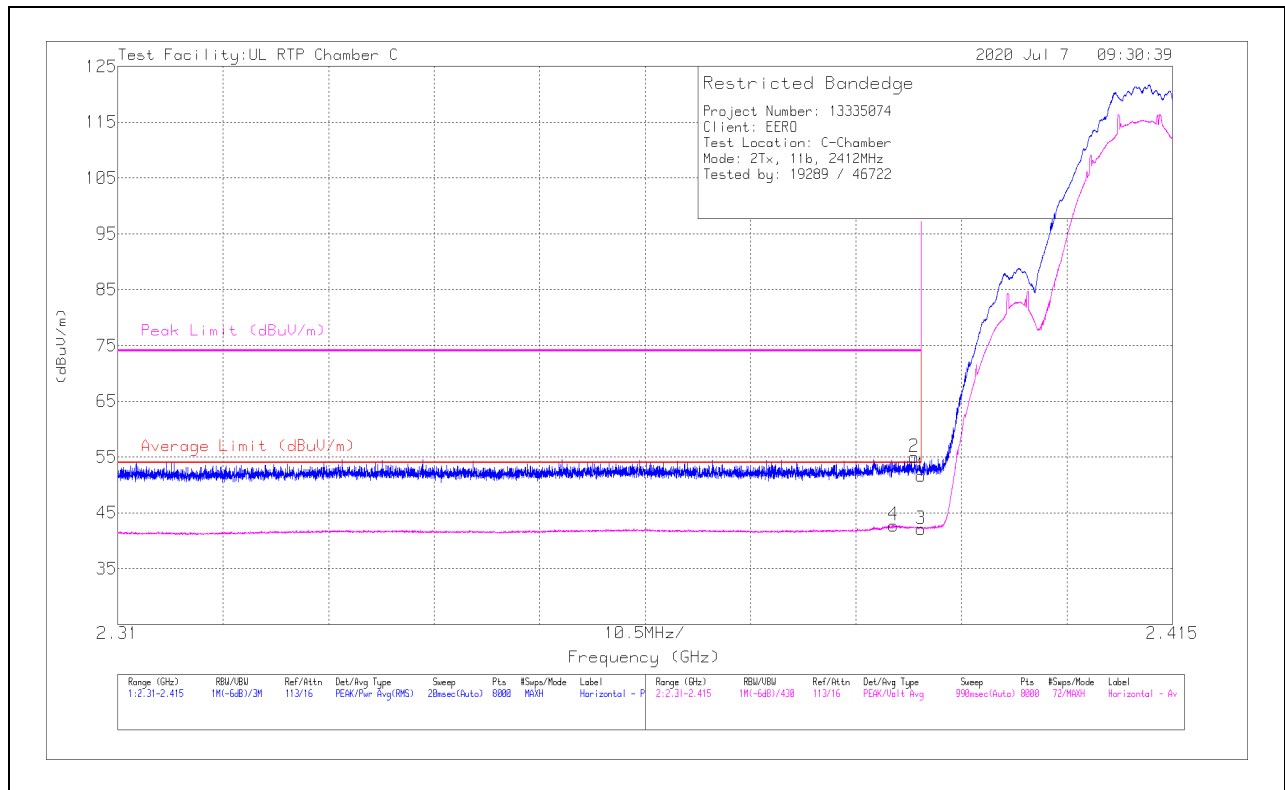
## 10.1. TRANSMITTER ABOVE 1 GHz

### 10.1.1. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND

#### 2TX Antenna 1 + Antenna 2 CDD MODE

#### BANDEDGE (LOW CHANNEL, CH 1)

#### HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AT0062 (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      | * ** 2.39       | 38.89                | Pk   | 32.1          | -19.3                  | 51.69                      | -                      | -           | 74                  | -22.31         | 117            | 224         | H        |
| 2      | * ** 2.3893     | 42.33                | Pk   | 32            | -19.3                  | 55.03                      | -                      | -           | 74                  | -18.97         | 117            | 224         | H        |
| 3      | * ** 2.39       | 29.35                | V1TV | 32.1          | -19.3                  | 42.15                      | 54                     | -11.85      | -                   | -              | 117            | 224         | H        |
| 4      | * ** 2.38723    | 30.08                | V1TV | 32            | -19.3                  | 42.78                      | 54                     | -11.22      | -                   | -              | 117            | 224         | H        |

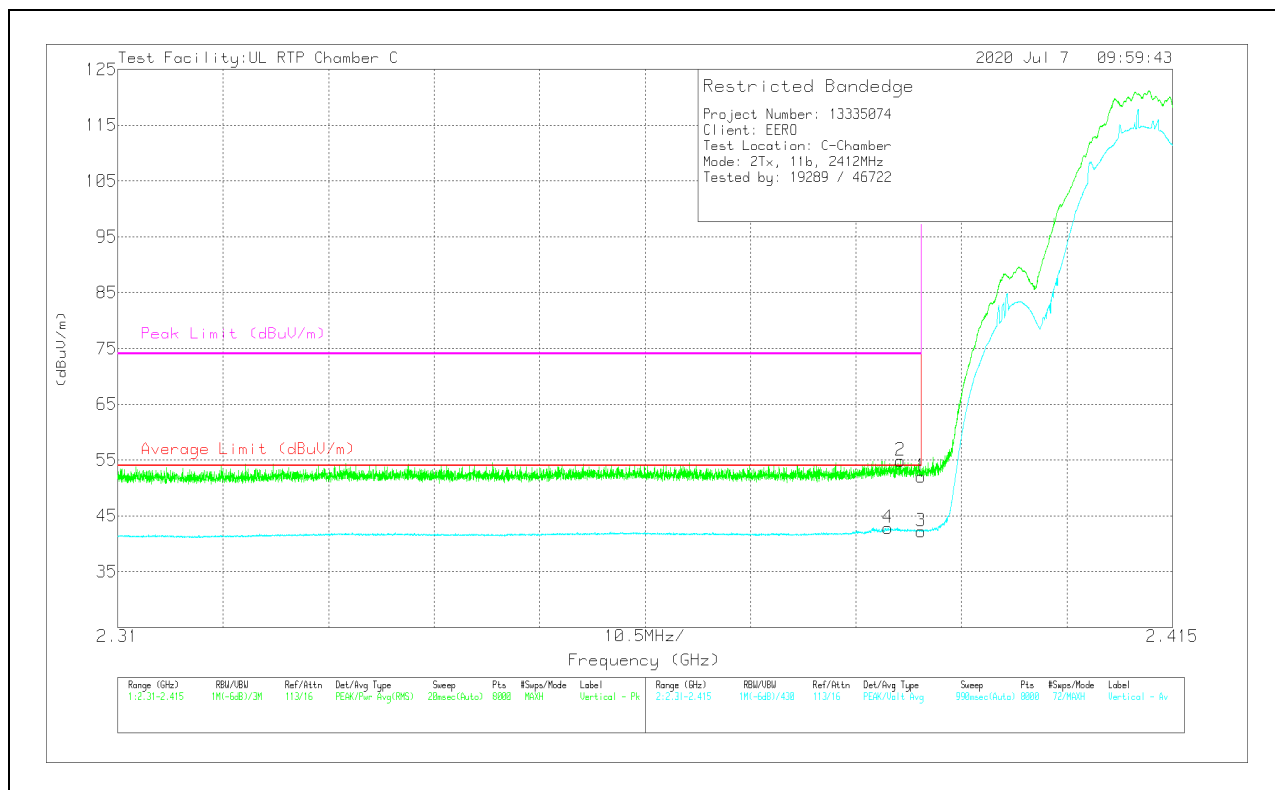
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

Pk - Peak detector

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

### VERTICAL RESULT



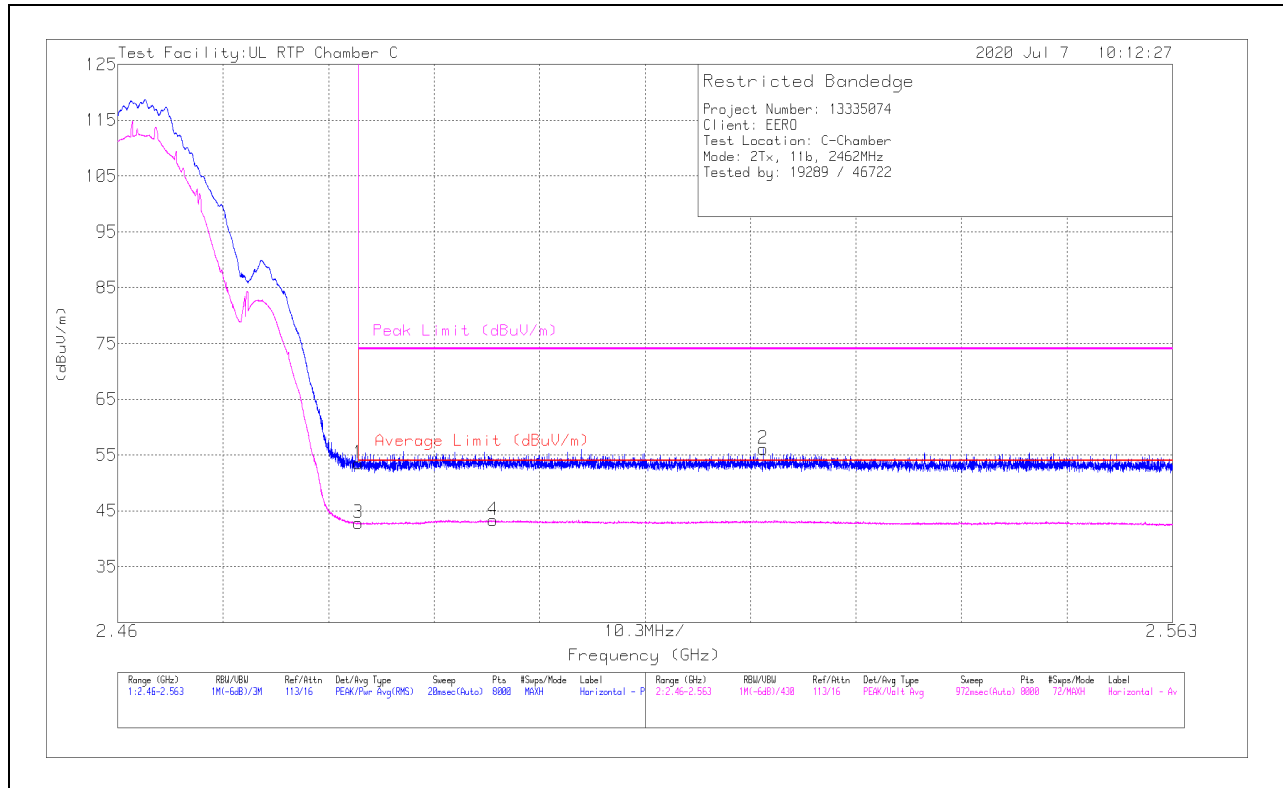
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AT0062 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * ** 2.39       | 39.27                | Pk   | 32.1          | -19.3                  | 52.07                      | -                      | -           | 74                  | -21.93         | 202            | 283         | V        |
| 2      | * ** 2.38795    | 42.22                | Pk   | 32            | -19.3                  | 54.92                      | -                      | -           | 74                  | -19.08         | 202            | 283         | V        |
| 3      | * ** 2.39       | 29.47                | V1TV | 32.1          | -19.3                  | 42.27                      | 54                     | -11.73      | -                   | -              | 202            | 283         | V        |
| 4      | * ** 2.38665    | 30.16                | V1TV | 32            | -19.3                  | 42.86                      | 54                     | -11.14      | -                   | -              | 202            | 283         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration



**BANDEDGE (HIGH CHANNEL, CH 11)**

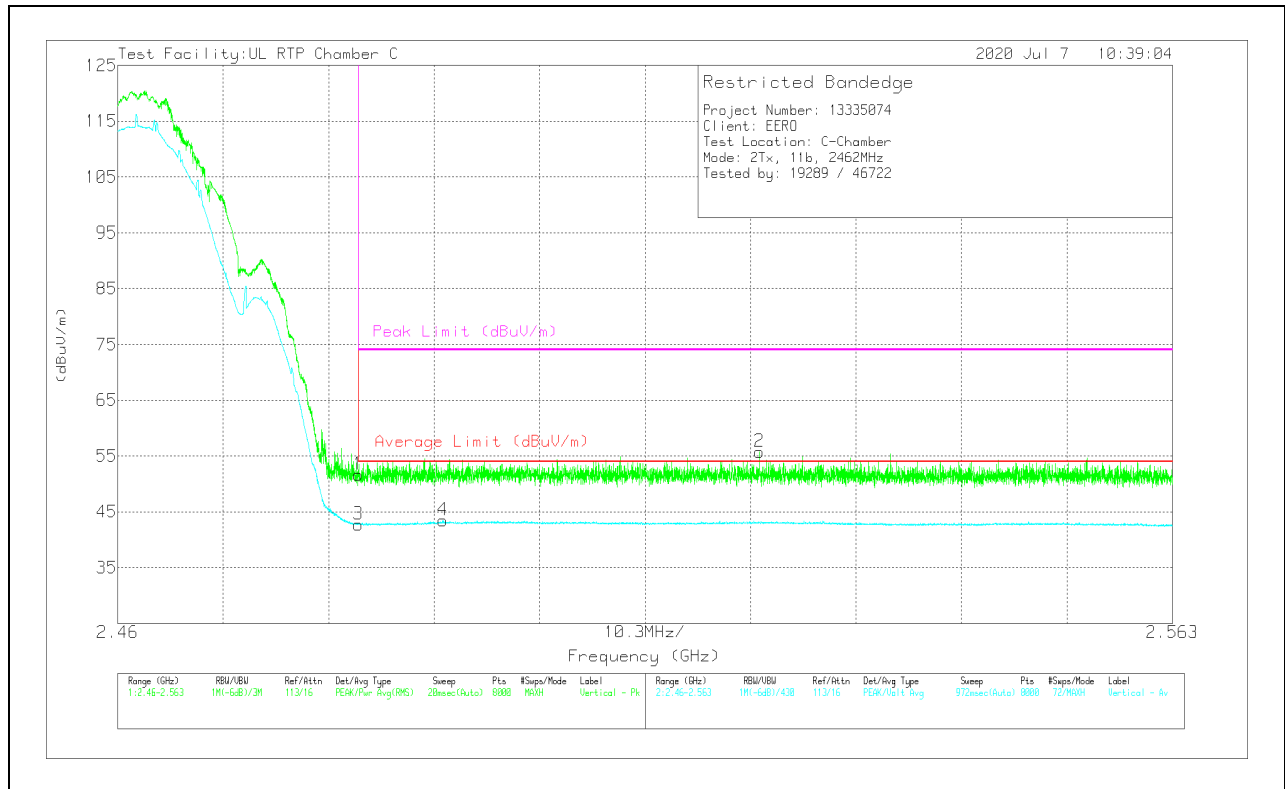
**HORIZONTAL RESULT**



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AT0062 (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      | *** 2.4835      | 40.17                | Pk   | 32.6          | -19.2                  | 53.57                      | -                      | -           | 74                  | -20.43         | 284            | 242         | H        |
| 2      | ** 2.52305      | 42.43                | Pk   | 32.6          | -18.9                  | 56.13                      | -                      | -           | 74                  | -17.87         | 284            | 242         | H        |
| 3      | *** 2.4835      | 29.39                | V1TV | 32.6          | -19.2                  | 42.79                      | 54                     | -11.21      | -                   | -              | 284            | 242         | H        |
| 4      | *** 2.49666     | 29.55                | V1TV | 32.7          | -18.9                  | 43.35                      | 54                     | -10.65      | -                   | -              | 284            | 242         | H        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

### VERTICAL RESULT

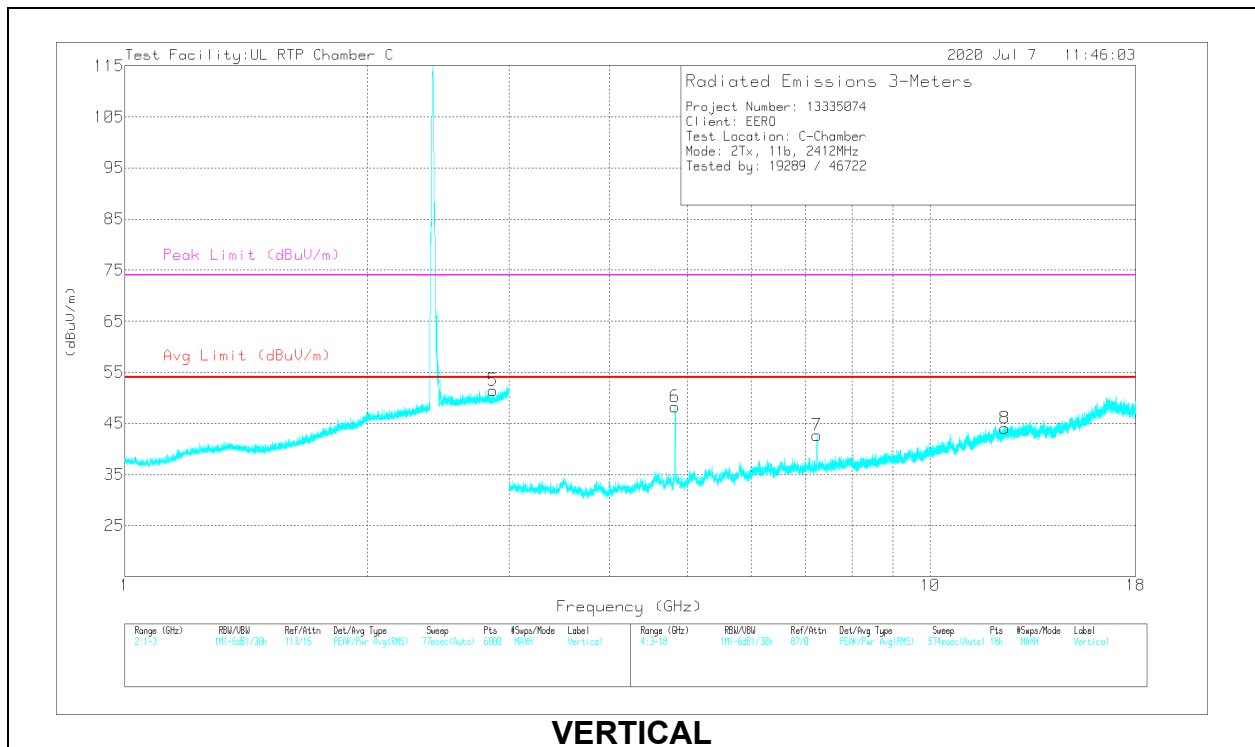
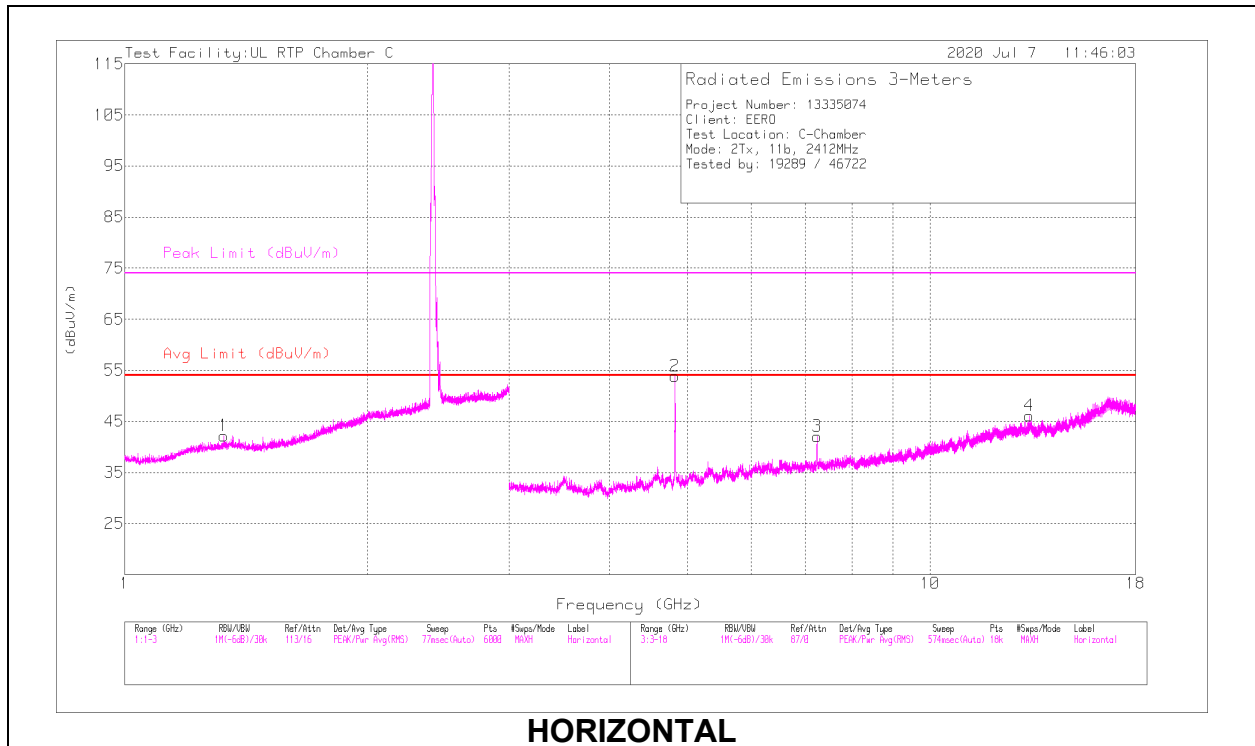


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AT0062 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | *** 2.4835      | 38.21                | Pk   | 32.6          | -19.2                  | 51.61                      | -                      | -           | 74                  | -22.39         | 212            | 336         | V        |
| 2      | ** 2.52267      | 42.05                | Pk   | 32.6          | -18.9                  | 55.75                      | -                      | -           | 74                  | -18.25         | 212            | 336         | V        |
| 3      | *** 2.4835      | 29.3                 | V1TV | 32.6          | -19.2                  | 42.7                       | 54                     | -11.3       | -                   | -              | 212            | 336         | V        |
| 4      | *** 2.49173     | 29.73                | V1TV | 32.7          | -19                    | 43.43                      | 54                     | -10.57      | -                   | -              | 212            | 336         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

**HARMONICS AND SPURIOUS EMISSIONS**

**LOW CHANNEL, CH 1 RESULTS**



**RADIATED EMISSIONS**

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AT0062 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | *** 1.32613     | 39.98                | PK2  | 28.7          | -21.3                  | 47.38                      | -                  | -           | 74                  | -26.62         | 85             | 202         | H        |
|        | *** 1.3275      | 27.31                | V1TV | 28.7          | -21.2                  | 34.81                      | 54                 | -19.19      | -                   | -              | 85             | 202         | H        |
| 5      | *** 2.86747     | 41.97                | PK2  | 32.4          | -18.4                  | 55.97                      | -                  | -           | 74                  | -18.03         | 239            | 170         | V        |
|        | *** 2.86778     | 29.06                | V1TV | 32.4          | -18.4                  | 43.06                      | 54                 | -10.94      | -                   | -              | 239            | 170         | V        |
| 2      | *** 4.82396     | 67.76                | PK2  | 34.1          | -49.6                  | 52.26                      | -                  | -           | 74                  | -21.74         | 114            | 214         | H        |
|        | *** 4.82388     | 56.01                | V1TV | 34.1          | -49.6                  | 40.51                      | 54                 | -13.49      | -                   | -              | 114            | 214         | H        |
| 4      | *** 13.28695    | 50.7                 | PK2  | 39.2          | -38.4                  | 51.5                       | -                  | -           | 74                  | -22.5          | 216            | 276         | H        |
|        | *** 13.28664    | 38.11                | V1TV | 39.2          | -38.4                  | 38.91                      | 54                 | -15.09      | -                   | -              | 216            | 276         | H        |
| 6      | *** 4.82383     | 68.65                | PK2  | 34.1          | -49.6                  | 53.15                      | -                  | -           | 74                  | -20.85         | 215            | 206         | V        |
|        | *** 4.82387     | 56.6                 | V1TV | 34.1          | -49.6                  | 41.1                       | 54                 | -12.9       | -                   | -              | 215            | 206         | V        |
| 8      | *** 12.38834    | 52.13                | PK2  | 39            | -40.5                  | 50.63                      | -                  | -           | 74                  | -23.37         | 99             | 364         | V        |
|        | *** 12.38631    | 40.12                | V1TV | 39            | -40.6                  | 38.52                      | 54                 | -15.48      | -                   | -              | 99             | 364         | V        |
| 7      | 7.2369          | 54.03                | Pk   | 35.7          | -47.1                  | 42.63                      | -                  | -           | -                   | -              | 0-360          | 199         | V        |
| 3      | 7.2419          | 53.35                | Pk   | 35.7          | -47                    | 42.05                      | -                  | -           | -                   | -              | 0-360          | 102         | H        |

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

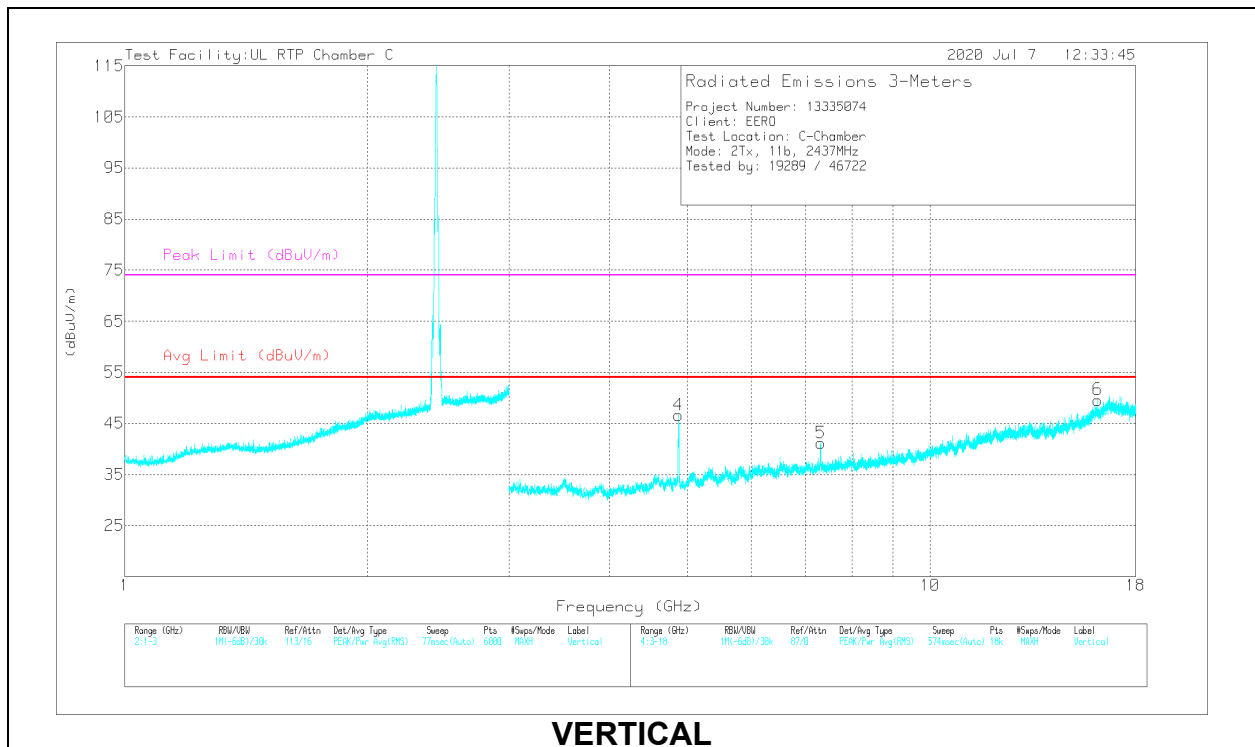
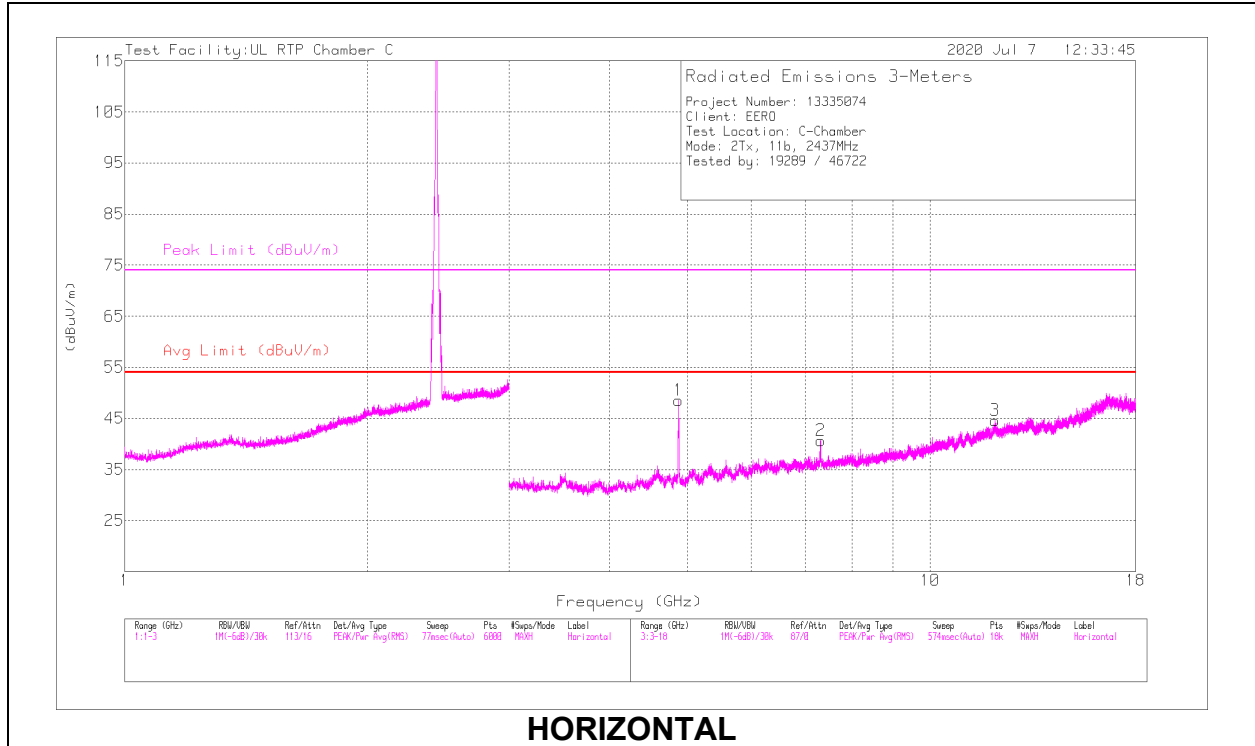
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - Maximum Peak

V1TV - U-NII: VB=1/Ton, Linear Voltage Average where: Ton is packet duration

Pk - Peak detector

### MID CHANNEL, CH 6 RESULTS

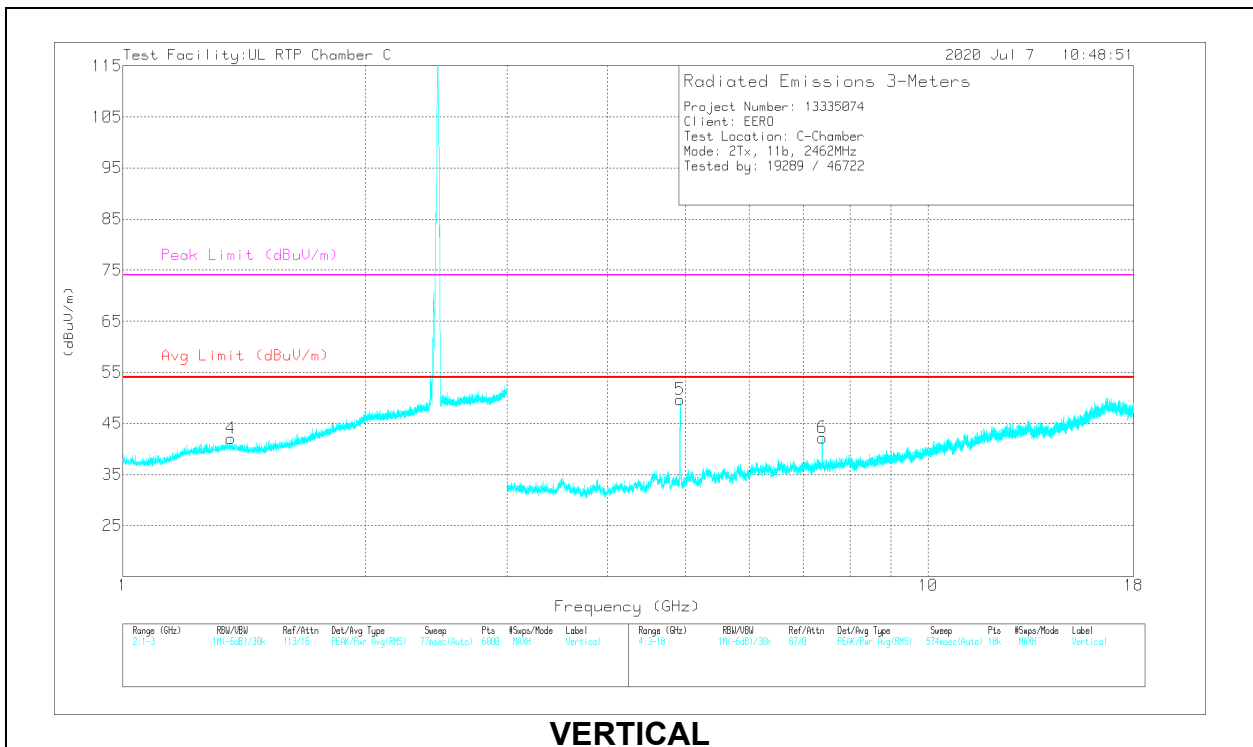
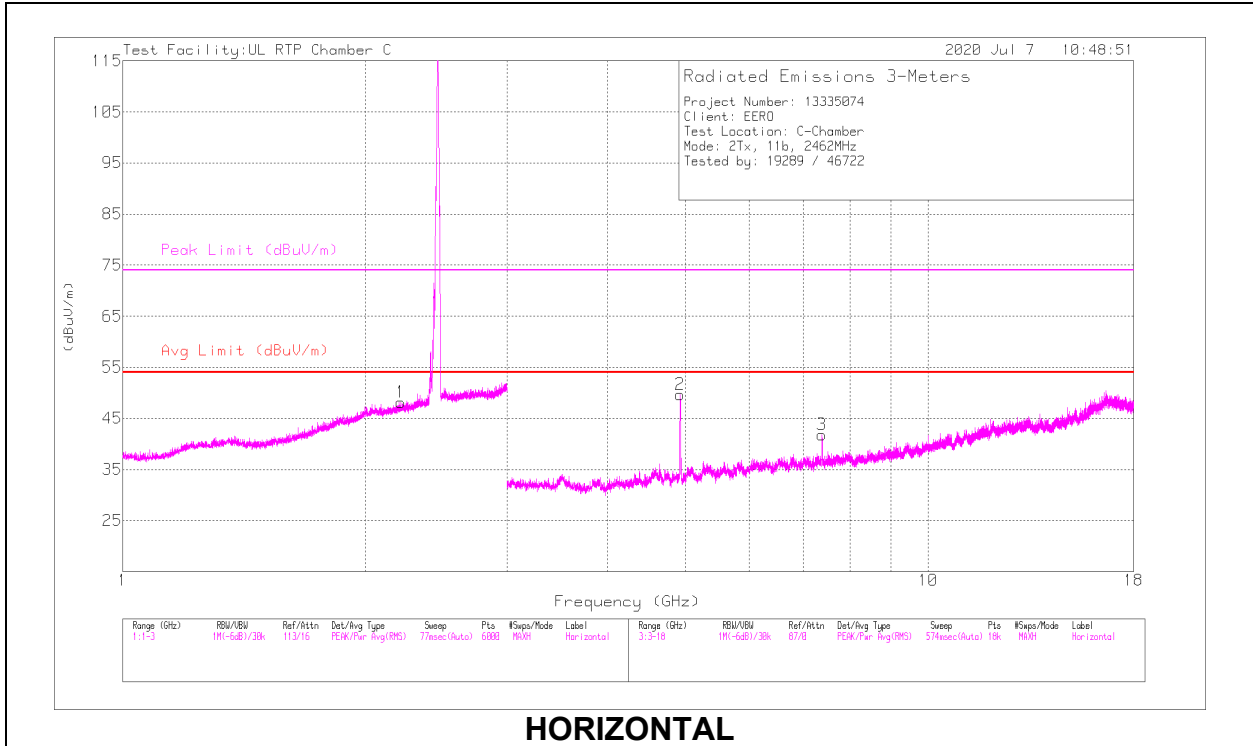


**RADIATED EMISSIONS**

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AT0062 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | *** 4.87387     | 66.1                 | PK2  | 34            | -48.9                  | 51.2                       | -                  | -           | 74                  | -22.8          | 338            | 230         | H        |
|        | *** 4.87384     | 54.22                | V1TV | 34            | -48.9                  | 39.32                      | 54                 | -14.68      | -                   | -              | 338            | 230         | H        |
| 2      | *** 7.31198     | 59.45                | PK2  | 35.7          | -46.9                  | 48.25                      | -                  | -           | 74                  | -25.75         | 88             | 265         | H        |
|        | *** 7.31173     | 46.53                | V1TV | 35.7          | -46.9                  | 35.33                      | 54                 | -18.67      | -                   | -              | 88             | 265         | H        |
| 3      | *** 12.03828    | 51.52                | PK2  | 38.8          | -39.3                  | 51.02                      | -                  | -           | 74                  | -22.98         | 131            | 397         | H        |
|        | *** 12.03615    | 39.63                | V1TV | 38.8          | -39.4                  | 39.03                      | 54                 | -14.97      | -                   | -              | 131            | 397         | H        |
| 4      | *** 4.87332     | 63.72                | PK2  | 34            | -48.9                  | 48.82                      | -                  | -           | 74                  | -25.18         | 349            | 396         | V        |
|        | *** 4.87379     | 51.85                | V1TV | 34            | -48.9                  | 36.95                      | 54                 | -17.05      | -                   | -              | 349            | 396         | V        |
| 5      | *** 7.3153      | 58.69                | PK2  | 35.7          | -47                    | 47.39                      | -                  | -           | 74                  | -26.61         | 125            | 398         | V        |
|        | *** 7.31614     | 48.84                | V1TV | 35.7          | -47                    | 37.54                      | 54                 | -16.46      | -                   | -              | 125            | 398         | V        |
| 6      | *** 16.14955    | 50.54                | PK2  | 41.3          | -37.1                  | 54.74                      | -                  | -           | 74                  | -19.26         | 282            | 242         | V        |
|        | *** 16.14933    | 38.65                | V1TV | 41.3          | -37.1                  | 42.85                      | 54                 | -11.15      | -                   | -              | 282            | 242         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 PK2 - Maximum Peak  
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration  
 Pk - Peak detector

### HIGH CHANNEL, CH 11 RESULTS



**RADIATED EMISSIONS**

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AT0062 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | *** 2.21601     | 42.03                | PK2  | 31.7          | -19.5                  | 54.23                      | -                  | -           | 74                  | -19.77         | 190            | 246         | H        |
|        | *** 2.21555     | 28.62                | V1TV | 31.7          | -19.5                  | 40.82                      | 54                 | -13.18      | -                   | -              | 190            | 246         | H        |
| 4      | *** 1.36299     | 40.43                | PK2  | 28.7          | -21.3                  | 47.83                      | -                  | -           | 74                  | -26.17         | 294            | 173         | V        |
|        | *** 1.36248     | 27.22                | V1TV | 28.7          | -21.3                  | 34.62                      | 54                 | -19.38      | -                   | -              | 294            | 173         | V        |
| 2      | *** 4.92392     | 71.56                | PK2  | 34            | -48.9                  | 56.66                      | -                  | -           | 74                  | -17.34         | 123            | 217         | H        |
|        | *** 4.92388     | 59.76                | V1TV | 34            | -48.9                  | 44.86                      | 54                 | -9.14       | -                   | -              | 123            | 217         | H        |
| 3      | *** 7.38633     | 59.75                | PK2  | 35.8          | -47.1                  | 48.45                      | -                  | -           | 74                  | -25.55         | 304            | 245         | H        |
|        | *** 7.38638     | 46.87                | V1TV | 35.8          | -47.1                  | 35.57                      | 54                 | -18.43      | -                   | -              | 304            | 245         | H        |
| 5      | *** 4.92395     | 70.61                | PK2  | 34            | -48.9                  | 55.71                      | -                  | -           | 74                  | -18.29         | 216            | 103         | V        |
|        | *** 4.92389     | 58.88                | V1TV | 34            | -48.9                  | 43.98                      | 54                 | -10.02      | -                   | -              | 216            | 103         | V        |
| 6      | *** 7.39297     | 56.82                | PK2  | 35.8          | -46.9                  | 45.72                      | -                  | -           | 74                  | -28.28         | 10             | 102         | V        |
|        | *** 7.39318     | 45.59                | V1TV | 35.8          | -46.9                  | 34.49                      | 54                 | -19.51      | -                   | -              | 10             | 102         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 PK2 - Maximum Peak  
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration  
 Pk - Peak detector

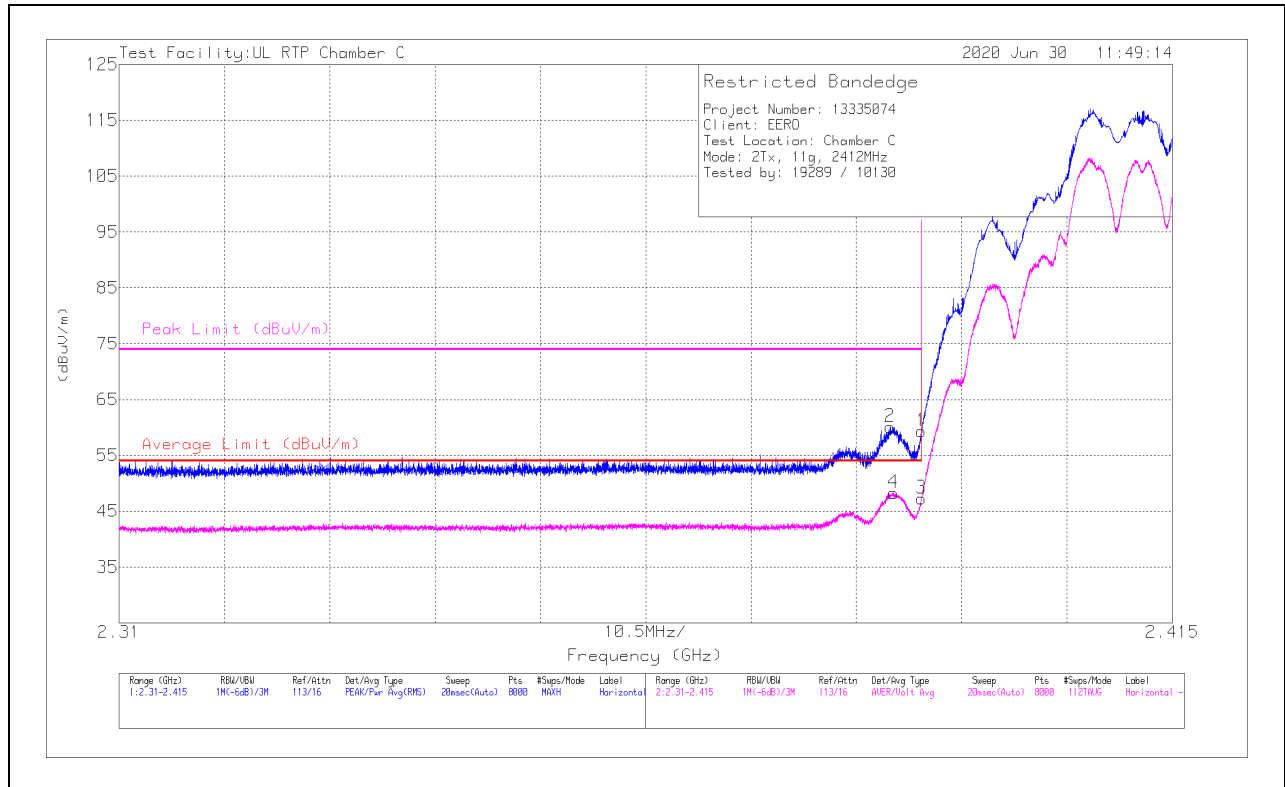


**10.1.2. TX ABOVE 1 GHz 802.11g MODE IN THE 2.4 GHz BAND**

**2TX Antenna 1 + Antenna 2 CDD MODE**

**BANDEDGE (LOW CHANNEL, CH 1)**

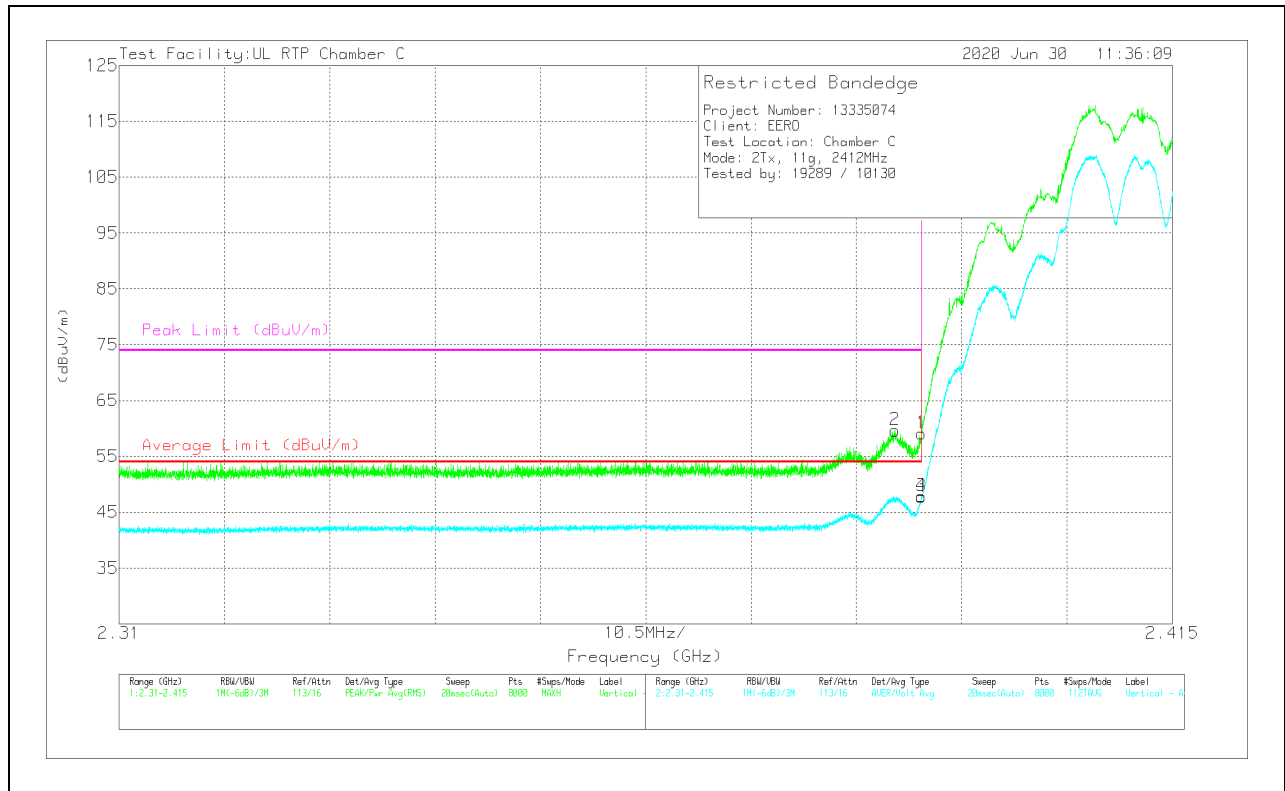
**HORIZONTAL RESULT**



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0062 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | *** 2.39        | 46.54                | Pk  | 32.1          | -19.3                  | 0            | 59.34                      | -                      | -           | 74                  | -14.66         | 38             | 248         | H        |
| 2      | *** 2.38687     | 47.41                | Pk  | 32            | -19.3                  | 0            | 60.11                      | -                      | -           | 74                  | -13.89         | 38             | 248         | H        |
| 3      | *** 2.39        | 33.46                | ADV | 32.1          | -19.3                  | 1.04         | 47.3                       | 54                     | -6.7        | -                   | -              | 38             | 248         | H        |
| 4      | *** 2.3872      | 34.55                | ADV | 32            | -19.3                  | 1.04         | 48.29                      | 54                     | -5.71       | -                   | -              | 38             | 248         | 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

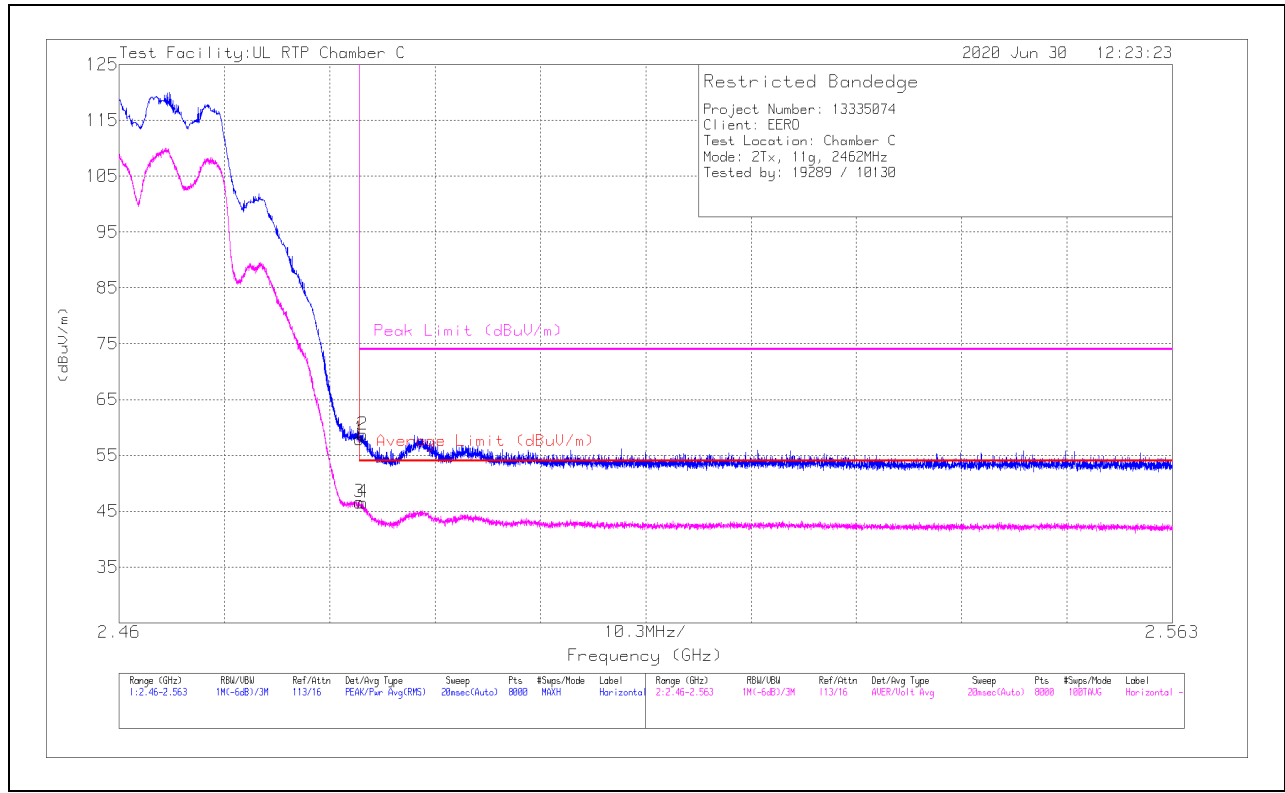


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0062 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * ** 2.39       | 46.27                | Pk  | 32.1          | -19.3                  | 0            | 59.07                      | -                      | -           | 74                  | -14.93         | 212            | 368         | V        |
| 2      | * ** 2.38736    | 46.95                | Pk  | 32            | -19.3                  | 0            | 59.65                      | -                      | -           | 74                  | -14.35         | 212            | 368         | V        |
| 3      | * ** 2.39       | 34.04                | ADV | 32.1          | -19.3                  | 1.04         | 47.88                      | 54                     | -6.12       | -                   | -              | 212            | 368         | V        |
| 4      | * ** 2.38998    | 33.96                | ADV | 32.1          | -19.3                  | 1.04         | 47.8                       | 54                     | -6.2        | -                   | -              | 212            | 368         | 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, CH 11)**

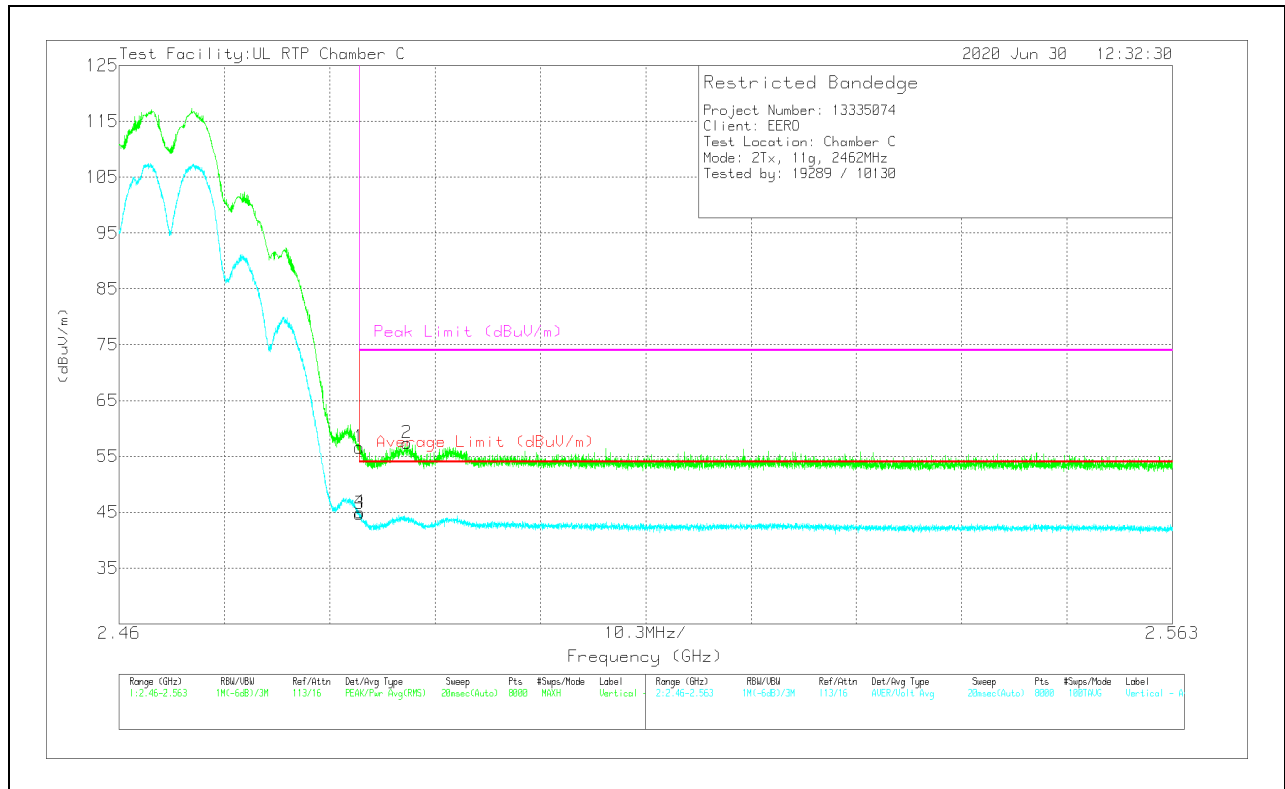
**HORIZONTAL RESULT**



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0062 (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      | *** 2.4835      | 44.56                | Pk  | 32.6          | -19.2                  | 57.96                      | -                      | -           | 74                  | -16.04         | 301            | 356         | H        |
| 2      | *** 2.48382     | 45.31                | Pk  | 32.6          | -19.2                  | 58.71                      | -                      | -           | 74                  | -15.29         | 301            | 356         | H        |
| 3      | *** 2.4835      | 33.22                | ADV | 32.6          | -19.2                  | 46.62                      | 54                     | -7.38       | -                   | -              | 301            | 356         | H        |
| 4      | *** 2.48387     | 33.18                | ADV | 32.6          | -19.2                  | 46.58                      | 54                     | -7.42       | -                   | -              | 301            | 356         | 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

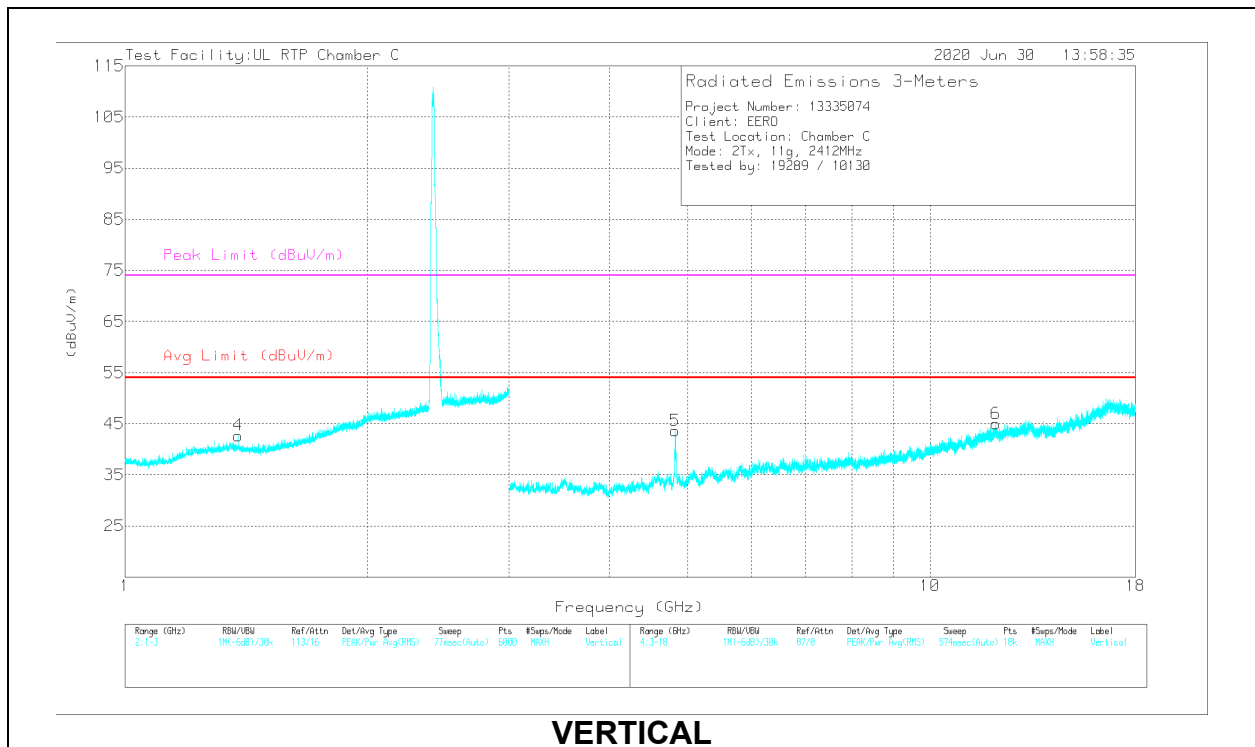
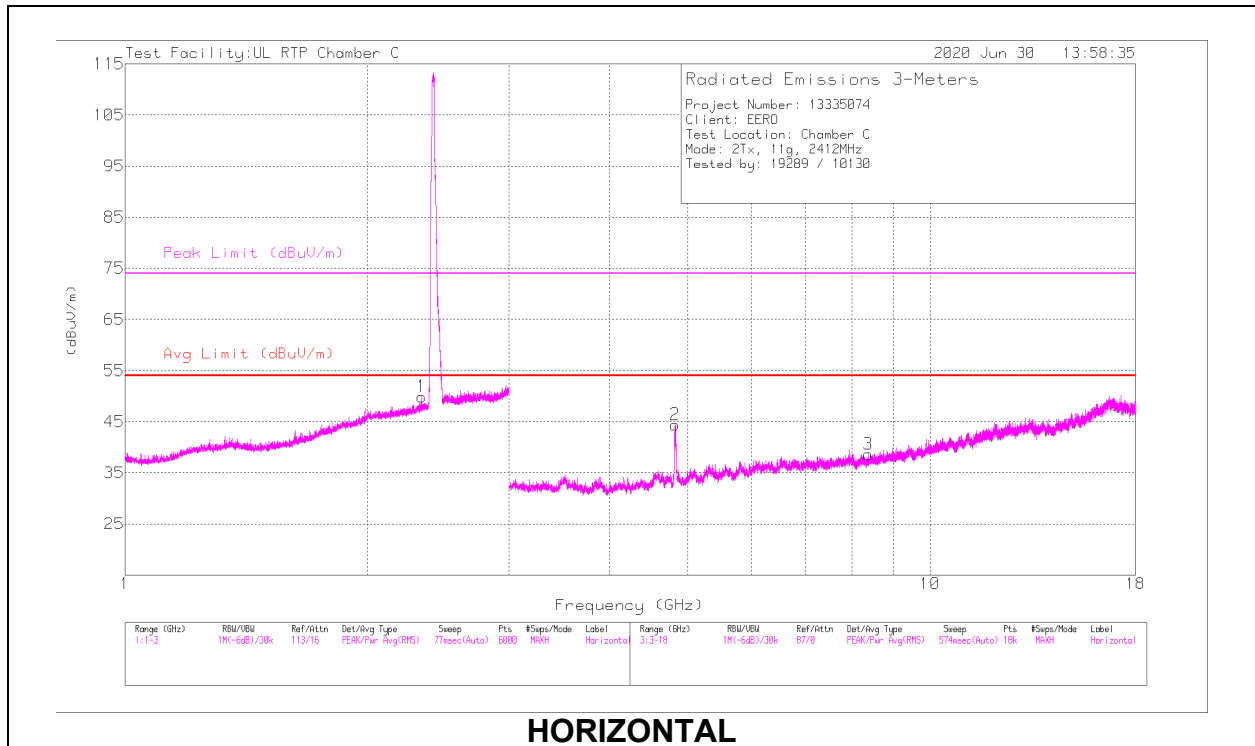


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0062 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | *** 2.4835      | 43.21                | Pk  | 32.6          | -19.2                  | 56.61                      | -                      | -           | 74                  | -17.39         | 22             | 357         | V        |
| 2      | *** 2.48815     | 43.87                | Pk  | 32.6          | -19.1                  | 57.37                      | -                      | -           | 74                  | -16.63         | 22             | 357         | V        |
| 3      | *** 2.4835      | 31.3                 | ADV | 32.6          | -19.2                  | 44.7                       | 54                     | -9.3        | -                   | -              | 22             | 357         | V        |
| 4      | *** 2.48357     | 31.53                | ADV | 32.6          | -19.2                  | 44.93                      | 54                     | -9.07       | -                   | -              | 22             | 357         | 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

**HARMONICS AND SPURIOUS EMISSIONS**

**LOW CHANNEL, CH 1 RESULTS**

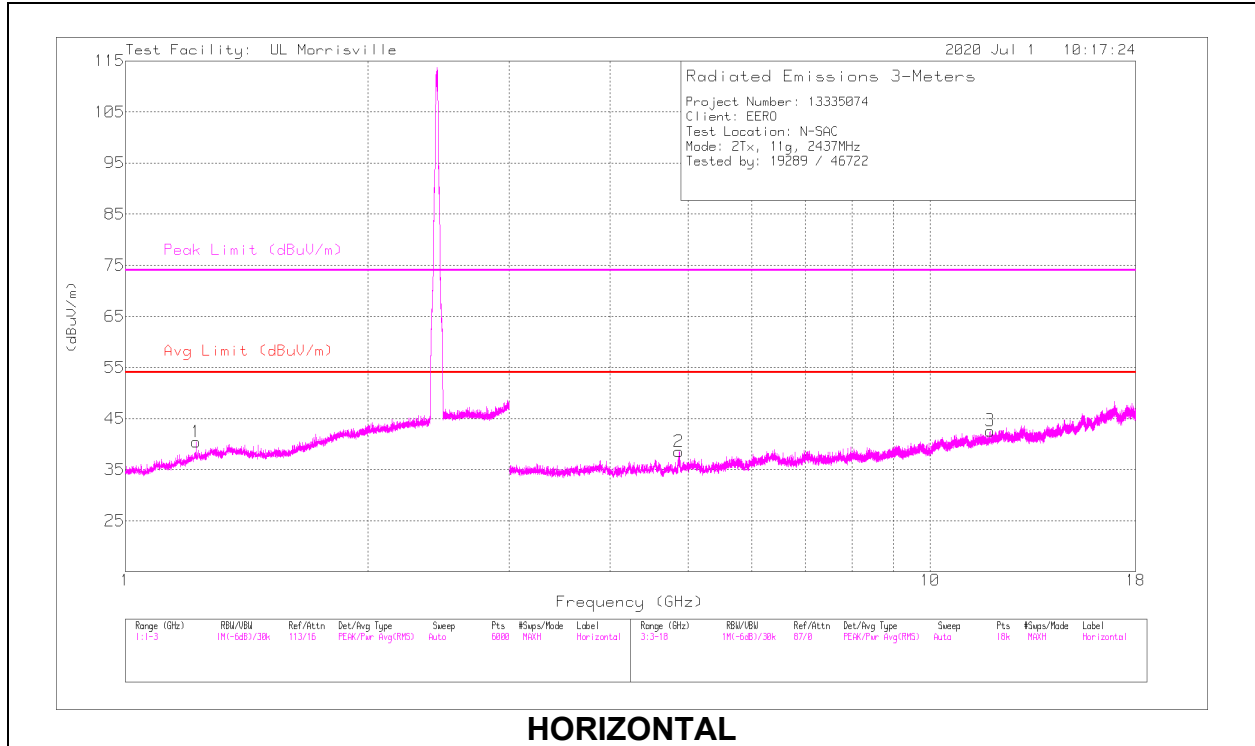


**RADIATED EMISSIONS**

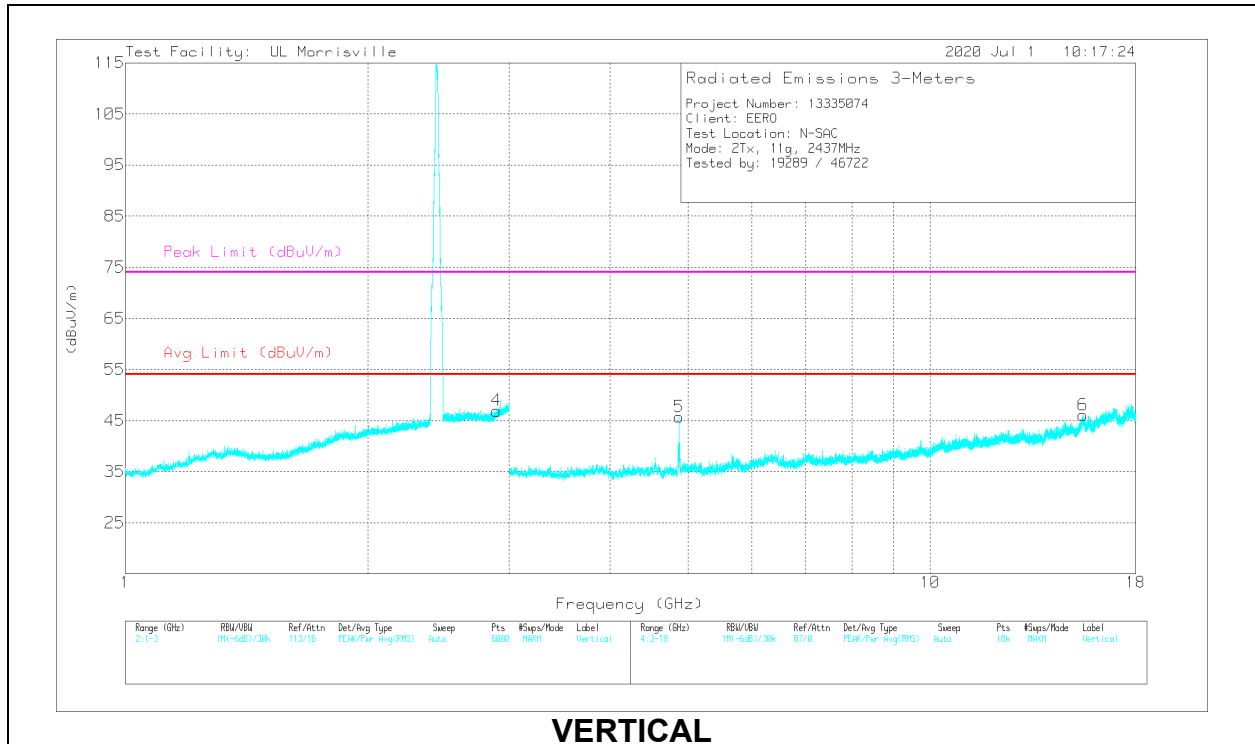
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0062 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | *** 2.33485     | 41.76                | PK2 | 31.9          | -19.3                  | 0            | 54.36                      | -                  | -           | 74                  | -19.64         | 52             | 107         | H        |
|        | *** 2.33337     | 28.42                | ADV | 31.9          | -19.3                  | 1.06         | 42.08                      | 54                 | -11.92      | -                   | -              | 52             | 107         | H        |
| 4      | *** 1.38083     | 40.14                | PK2 | 28.6          | -21.2                  | 0            | 47.54                      | -                  | -           | 74                  | -26.46         | 81             | 291         | V        |
|        | *** 1.38141     | 26.75                | ADV | 28.6          | -21.2                  | 1.06         | 35.21                      | 54                 | -18.79      | -                   | -              | 81             | 291         | V        |
| 2      | *** 4.82192     | 67.63                | PK2 | 34.1          | -49.5                  | 0            | 52.23                      | -                  | -           | 74                  | -21.77         | 24             | 252         | H        |
|        | *** 4.82207     | 55.59                | ADV | 34.1          | -49.5                  | 1.06         | 41.25                      | 54                 | -12.75      | -                   | -              | 24             | 252         | H        |
| 3      | *** 8.38267     | 54.8                 | PK2 | 35.8          | -45.8                  | 0            | 44.8                       | -                  | -           | 74                  | -29.2          | 127            | 238         | H        |
|        | *** 8.38403     | 41.81                | ADV | 35.8          | -45.8                  | 1.06         | 32.87                      | 54                 | -21.13      | -                   | -              | 127            | 238         | H        |
| 5      | *** 4.82235     | 64.6                 | PK2 | 34.1          | -49.5                  | 0            | 49.2                       | -                  | -           | 74                  | -24.8          | 214            | 240         | V        |
|        | *** 4.82271     | 52.25                | ADV | 34.1          | -49.5                  | 1.06         | 37.91                      | 54                 | -16.09      | -                   | -              | 214            | 240         | V        |
| 6      | *** 12.06705    | 51.49                | PK2 | 38.8          | -39.4                  | 0            | 50.89                      | -                  | -           | 74                  | -23.11         | 347            | 246         | V        |
|        | *** 12.06787    | 38.43                | ADV | 38.8          | -39.4                  | 1.06         | 38.89                      | 54                 | -15.11      | -                   | -              | 347            | 246         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 PK2 - Maximum Peak  
 ADV - Linear Voltage Average

### MID CHANNEL, CH 6 RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0072 dB(m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|--------------|------------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | *** 1.22284     | 41                   | PK2 | 28.8         | -25.1                  | 0            | 44.7                       | -                  | -           | 74                  | -29.3          | 237            | 287         | H        |
|        | *** 1.22274     | 28                   | ADV | 28.8         | -25.1                  | 1.04         | 32.74                      | 54                 | -21.26      | -                   | -              | 237            | 287         | H        |
| 4      | *** 2.89043     | 42.15                | PK2 | 32.5         | -22.5                  | 0            | 52.15                      | -                  | -           | 74                  | -21.85         | 189            | 169         | V        |
|        | *** 2.89233     | 29.29                | ADV | 32.5         | -22.5                  | 1.04         | 40.33                      | 54                 | -13.67      | -                   | -              | 189            | 169         | V        |
| 2      | *** 4.87258     | 44.88                | PK2 | 34.1         | -30.9                  | 0            | 48.08                      | -                  | -           | 74                  | -25.92         | 153            | 102         | H        |
|        | *** 4.87235     | 31.78                | ADV | 34.1         | -30.9                  | 1.04         | 36.02                      | 54                 | -17.98      | -                   | -              | 153            | 102         | H        |
| 3      | *** 11.88075    | 34.77                | PK2 | 38.6         | -25.1                  | 0            | 48.27                      | -                  | -           | 74                  | -25.73         | 281            | 191         | H        |
|        | *** 11.88216    | 22.18                | ADV | 38.6         | -25.2                  | 1.04         | 36.62                      | 54                 | -17.38      | -                   | -              | 281            | 191         | H        |
| 5      | *** 4.87196     | 47.63                | PK2 | 34.1         | -30.9                  | 0            | 50.83                      | -                  | -           | 74                  | -23.17         | 262            | 105         | V        |
|        | *** 4.87256     | 35.25                | ADV | 34.1         | -30.9                  | 1.04         | 39.49                      | 54                 | -14.51      | -                   | -              | 262            | 105         | V        |
| 6      | *** 15.48758    | 34.63                | PK2 | 40.2         | -23.1                  | 0            | 51.73                      | -                  | -           | 74                  | -22.27         | 345            | 140         | V        |
|        | *** 15.48727    | 22.68                | ADV | 40.2         | -23.1                  | 1.04         | 40.82                      | 54                 | -13.18      | -                   | -              | 345            | 140         | V        |

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

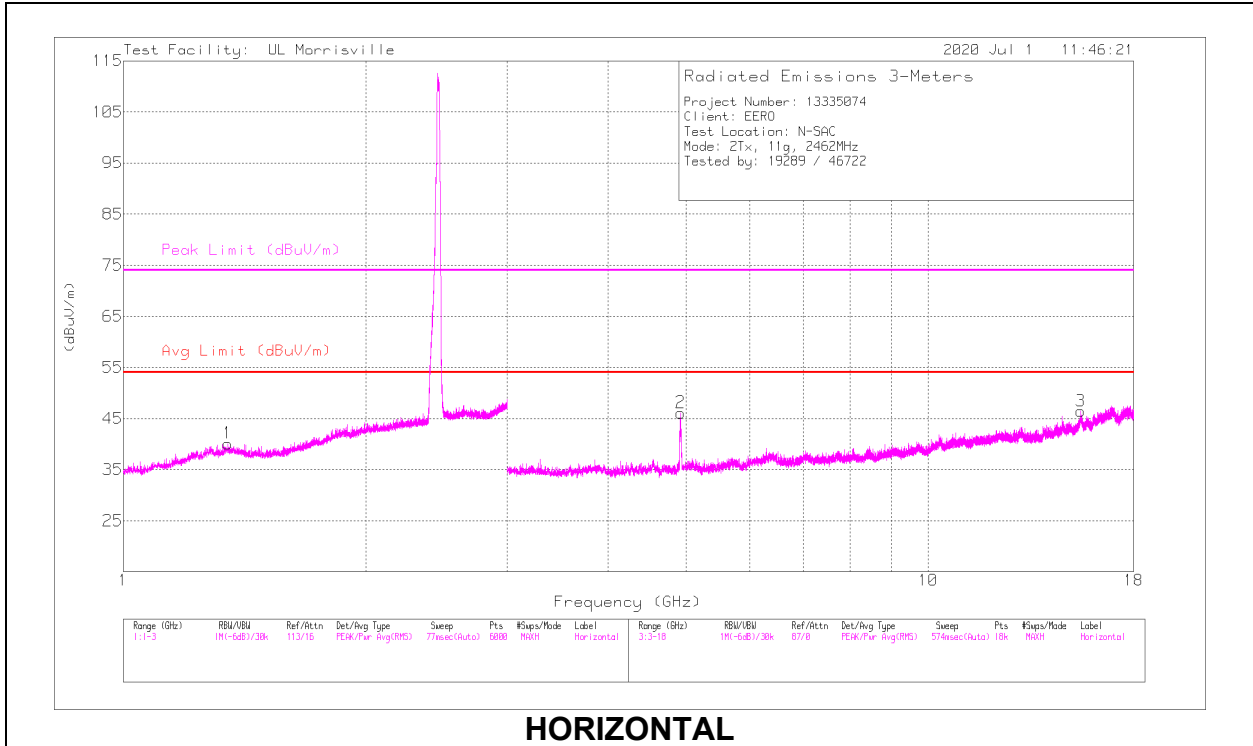
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - Maximum Peak

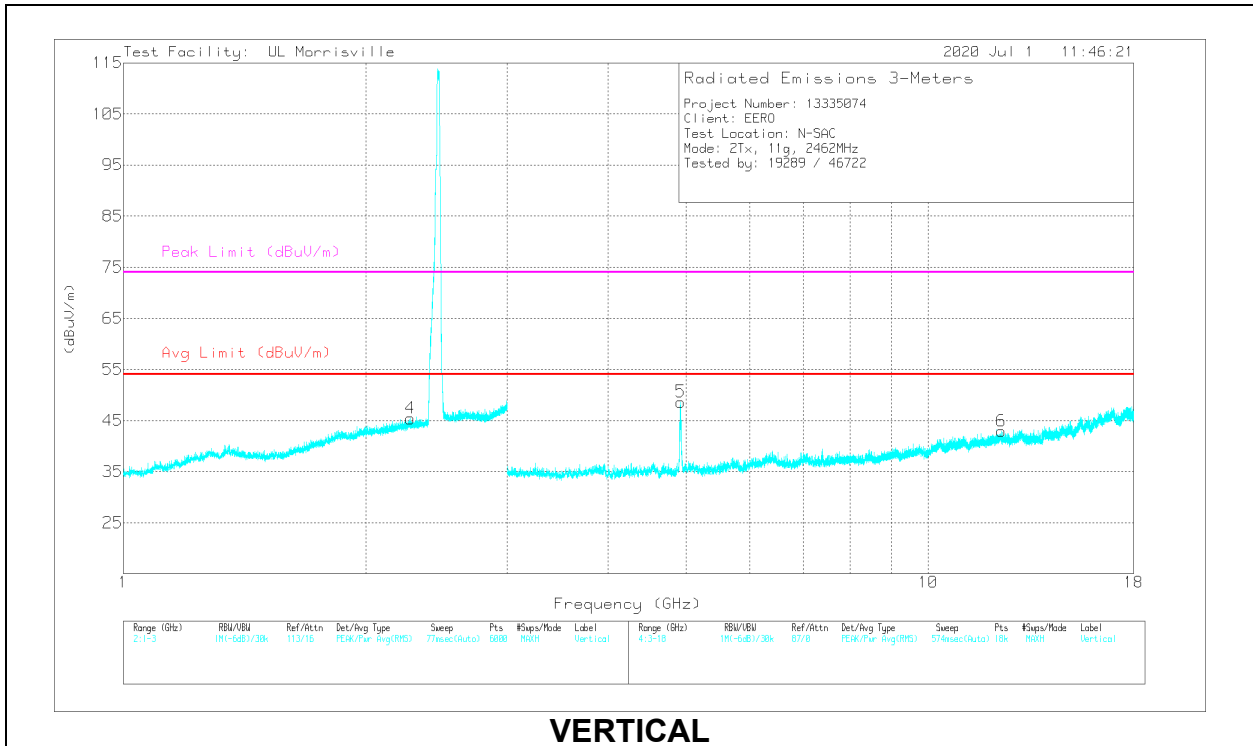
ADV - Linear Voltage Average



### HIGH CHANNEL, CH 11 RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0072 dB(m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|--------------|------------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | *** 1.34752     | 41.29                | PK2 | 29.4         | -24.6                  | 0            | 46.09                      | -                  | -           | 74                  | -27.91         | 307            | 276         | H        |
|        | *** 1.34741     | 28.01                | ADV | 29.4         | -24.6                  | 1.04         | 33.85                      | 54                 | -20.15      | -                   | -              | 307            | 276         | H        |
| 4      | *** 2.27359     | 42.34                | PK2 | 31.7         | -23.4                  | 0            | 50.64                      | -                  | -           | 74                  | -23.36         | 210            | 329         | V        |
|        | *** 2.27349     | 29.09                | ADV | 31.7         | -23.4                  | 1.04         | 38.43                      | 54                 | -15.57      | -                   | -              | 210            | 329         | V        |
| 2      | *** 4.93128     | 47.36                | PK2 | 34.1         | -31.2                  | 0            | 50.26                      | -                  | -           | 74                  | -23.74         | 23             | 307         | H        |
|        | *** 4.93111     | 34.72                | ADV | 34.1         | -31.2                  | 1.04         | 38.66                      | 54                 | -15.34      | -                   | -              | 23             | 307         | H        |
| 3      | *** 15.47821    | 35.5                 | PK2 | 40.2         | -23.1                  | 0            | 52.6                       | -                  | -           | 74                  | -21.4          | 71             | 315         | H        |
|        | *** 15.47845    | 22.39                | ADV | 40.2         | -23.1                  | 1.04         | 40.53                      | 54                 | -13.47      | -                   | -              | 71             | 315         | H        |
| 5      | *** 4.92752     | 51.48                | PK2 | 34.1         | -31.2                  | 0            | 54.38                      | -                  | -           | 74                  | -19.62         | 319            | 329         | V        |
|        | *** 4.92733     | 38.53                | ADV | 34.1         | -31.2                  | 1.04         | 42.47                      | 54                 | -11.53      | -                   | -              | 319            | 329         | V        |
| 6      | *** 12.3319     | 35.62                | PK2 | 38.9         | -25.4                  | 0            | 49.12                      | -                  | -           | 74                  | -24.88         | 274            | 248         | V        |
|        | *** 12.33313    | 22.61                | ADV | 38.9         | -25.5                  | 1.04         | 37.05                      | 54                 | -16.95      | -                   | -              | 274            | 248         | V        |

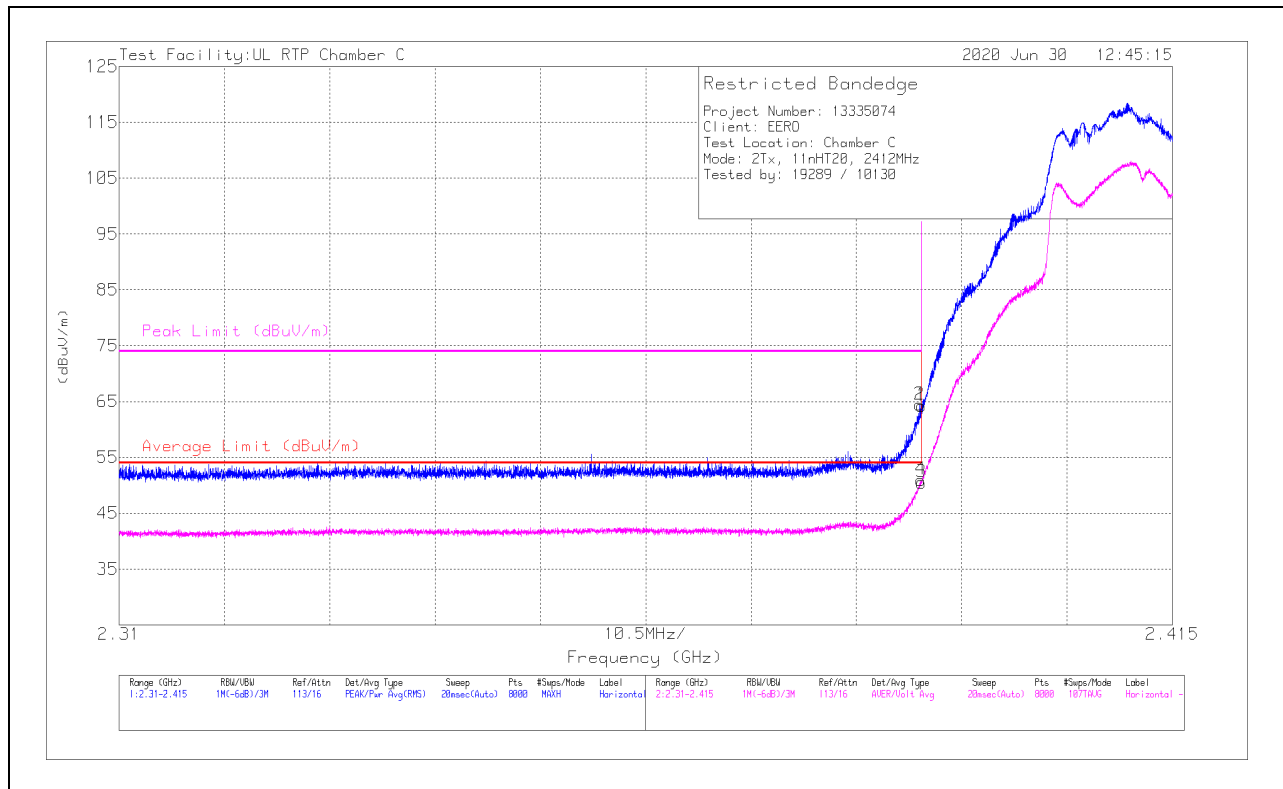
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 PK2 - Maximum Peak  
 ADV - Linear Voltage Average

**10.1.3. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 2.4 GHz BAND**

**2TX Antenna 1 + Antenna 2 CDD MODE**

**BANDEDGE (LOW CHANNEL, CH 1)**

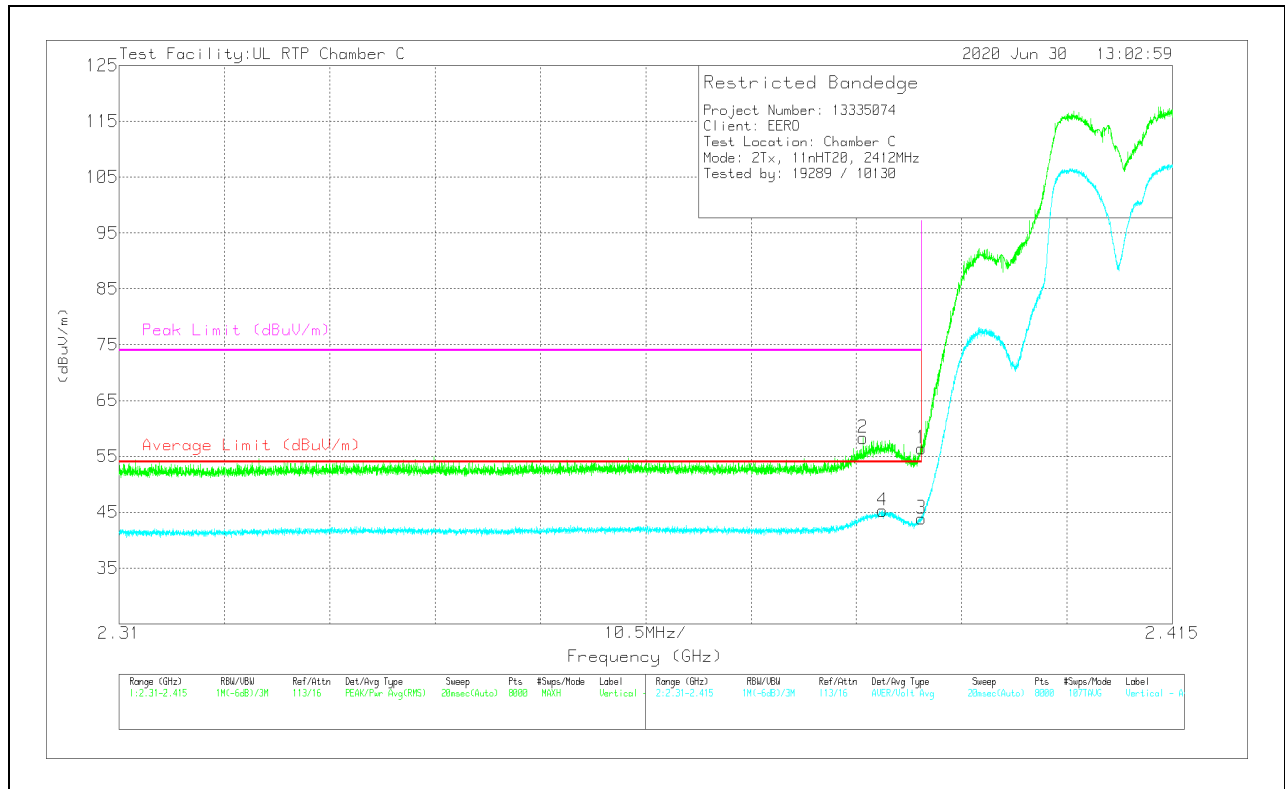
**HORIZONTAL RESULT**



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0062 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * * * 2.39      | 51.43                | Pk  | 32.1          | -19.3                  | 0            | 64.23                      | -                      | -           | 74                  | -9.77          | 108            | 275         | H        |
| 2      | * * * 2.3898    | 51.64                | Pk  | 32.1          | -19.3                  | 0            | 64.44                      | -                      | -           | 74                  | -9.56          | 108            | 275         | H        |
| 3      | * * * 2.39      | 37.1                 | ADV | 32.1          | -19.3                  | .61          | 50.51                      | 54                     | -3.49       | -                   | -              | 108            | 275         | H        |
| 4      | * * * 2.38993   | 37.57                | ADV | 32.1          | -19.3                  | .61          | 50.98                      | 54                     | -3.02       | -                   | -              | 108            | 275         | 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

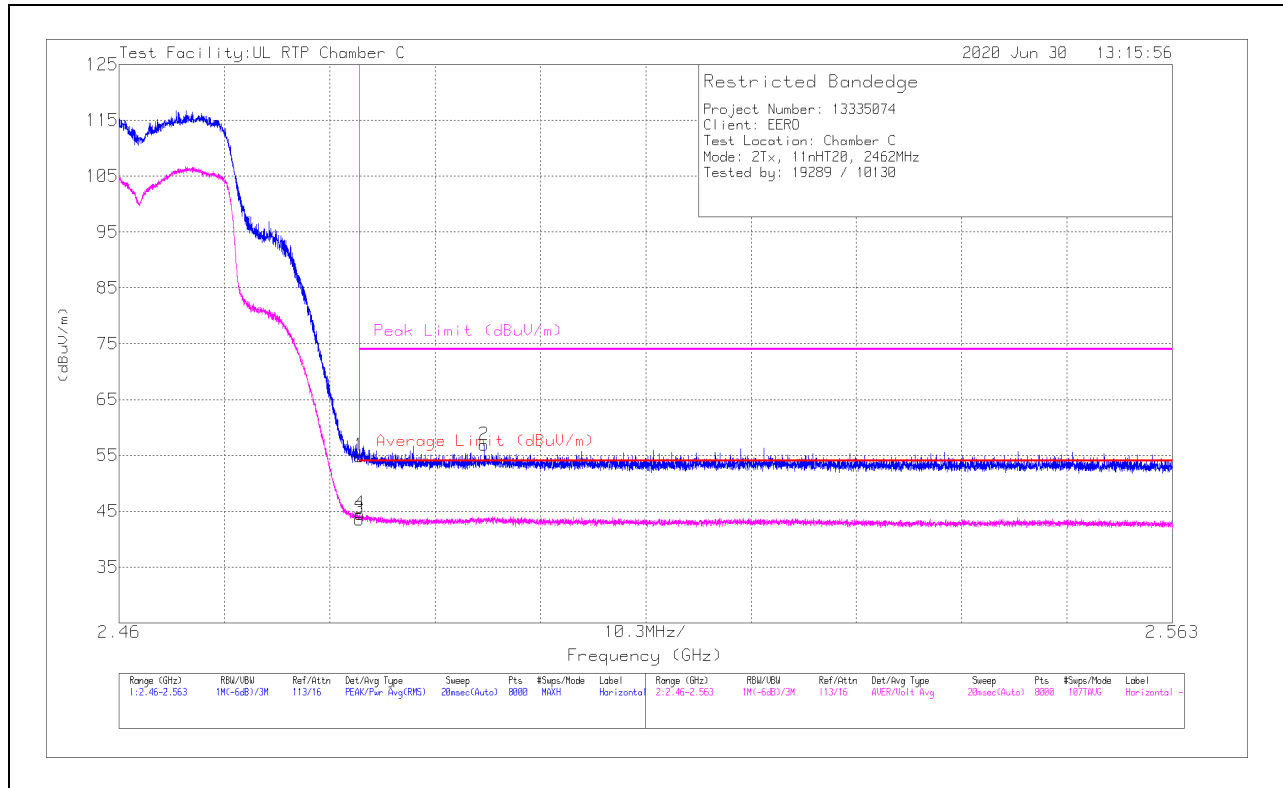


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0062 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * ** 2.39       | 43.63                | Pk  | 32.1          | -19.3                  | 0            | 56.43                      | -                      | -           | 74                  | -17.57         | 193            | 323         | V        |
| 2      | * ** 2.38414    | 45.72                | Pk  | 32            | -19.4                  | 0            | 58.32                      | -                      | -           | 74                  | -15.68         | 193            | 323         | V        |
| 3      | * ** 2.39       | 30.47                | ADV | 32.1          | -19.3                  | .61          | 43.88                      | 54                     | -10.12      | -                   | -              | 193            | 323         | V        |
| 4      | * ** 2.38608    | 32.08                | ADV | 32            | -19.4                  | .61          | 45.29                      | 54                     | -8.71       | -                   | -              | 193            | 323         | 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, CH 11)**

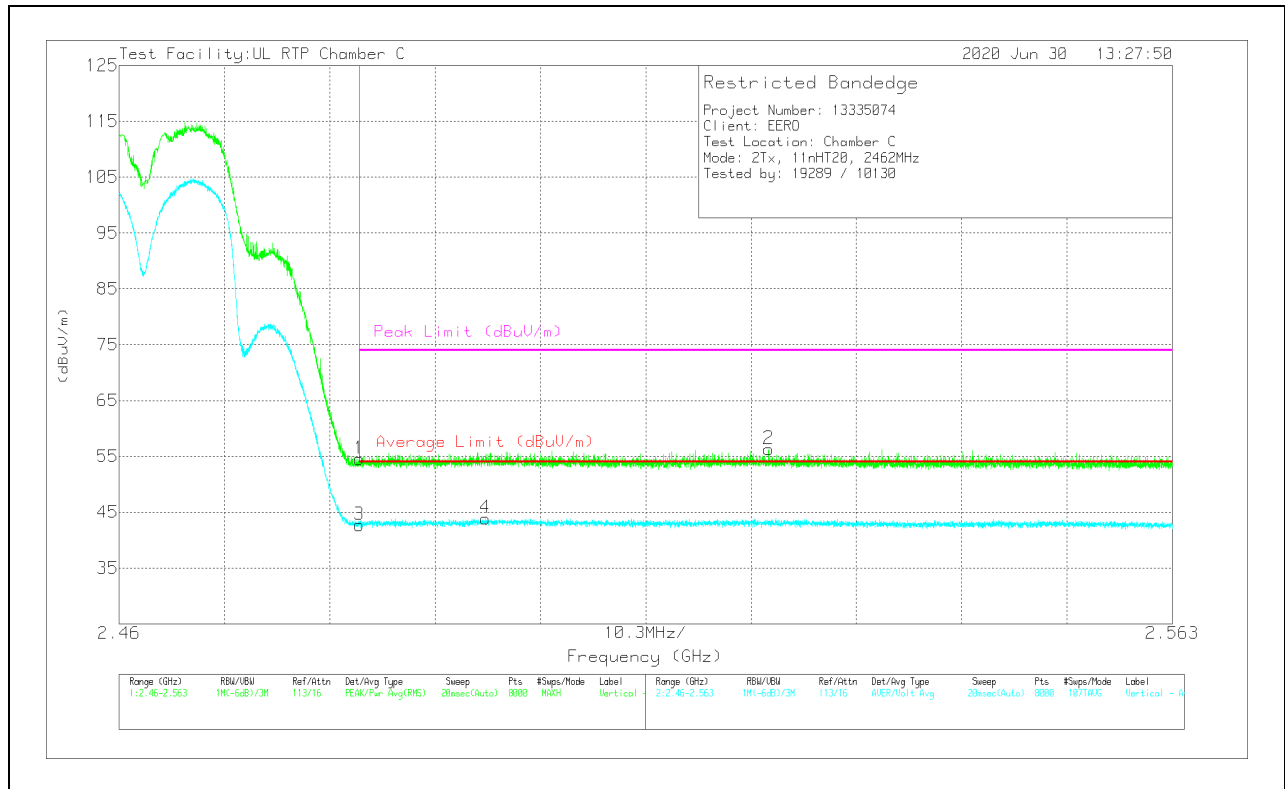
**HORIZONTAL RESULT**



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0062 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * ** 2.4835     | 41.49                | Pk  | 32.6          | -19.2                  | 0            | 54.89                      | -                      | -           | 74                  | -19.11         | 316            | 233         | H        |
| 2      | * ** 2.49571    | 43.09                | Pk  | 32.7          | -18.9                  | 0            | 56.89                      | -                      | -           | 74                  | -17.11         | 316            | 233         | H        |
| 3      | * ** 2.4835     | 29.57                | ADV | 32.6          | -19.2                  | .61          | 43.58                      | 54                     | -10.42      | -                   | -              | 316            | 233         | H        |
| 4      | * ** 2.48354    | 30.48                | ADV | 32.6          | -19.2                  | .61          | 44.49                      | 54                     | -9.51       | -                   | -              | 316            | 233         | 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

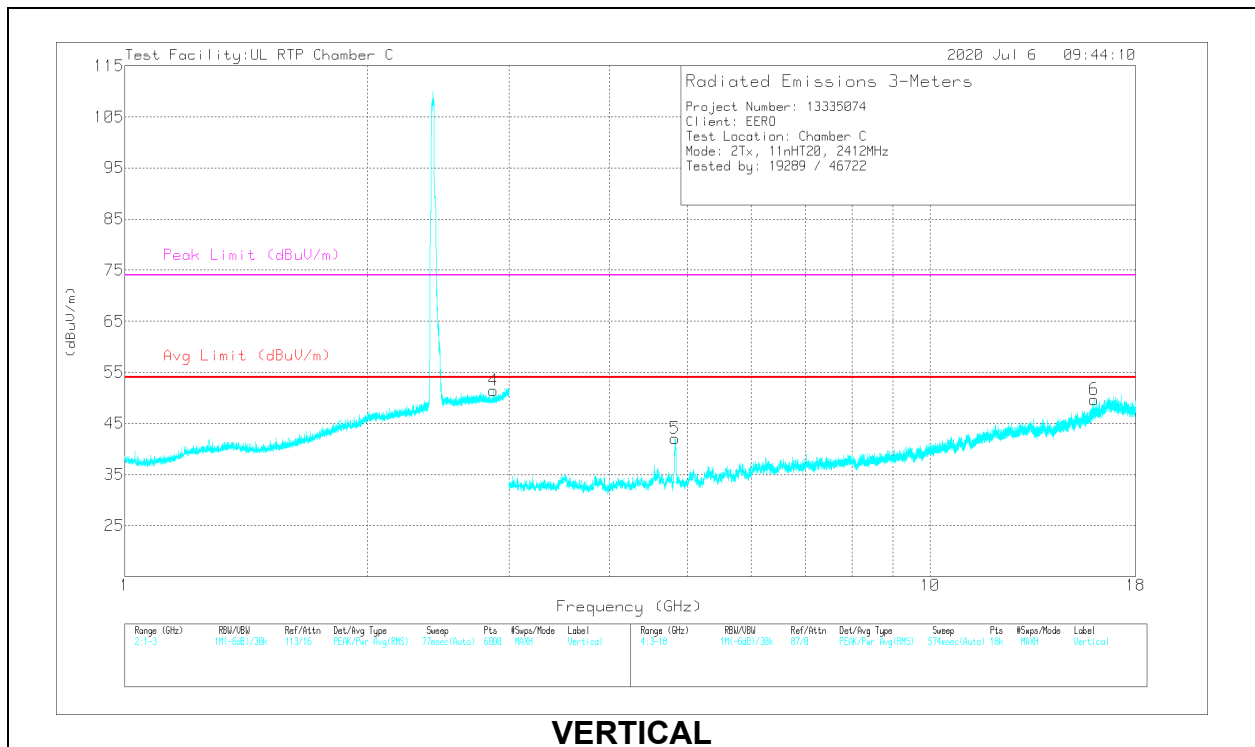
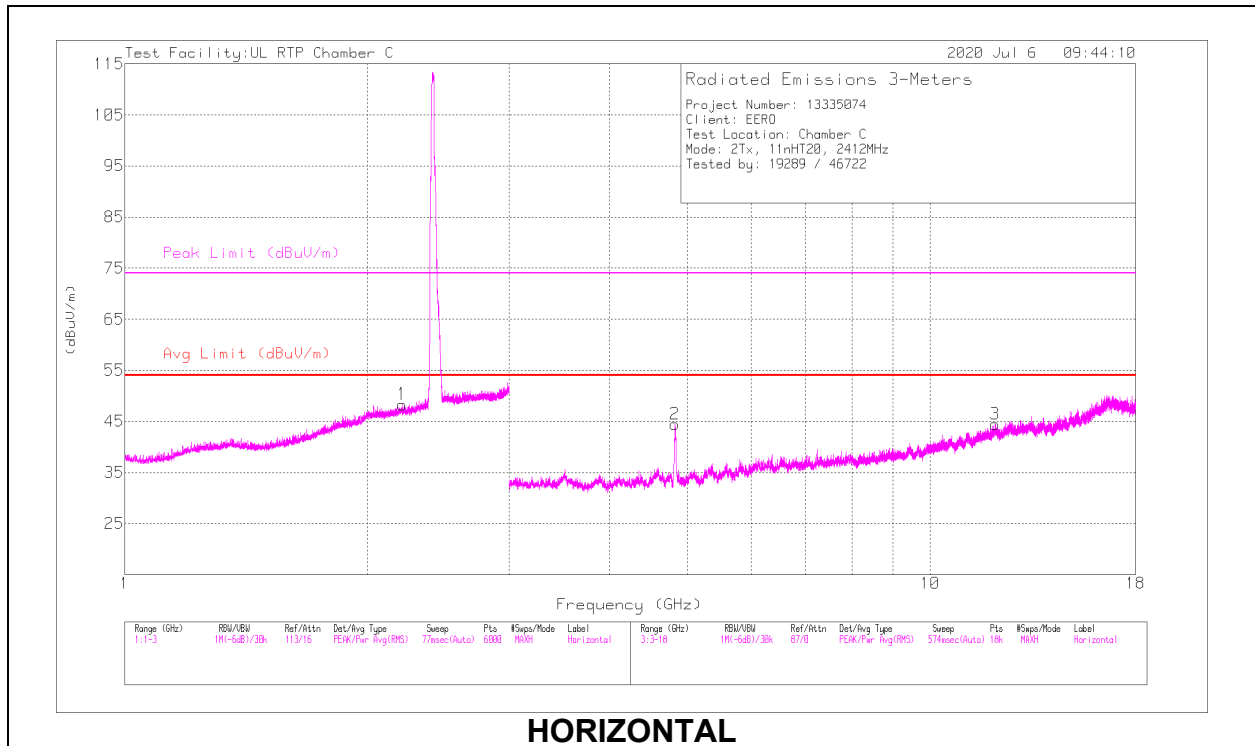


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0062 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * ** 2.4835     | 41.14                | Pk  | 32.6          | -19.2                  | 0            | 54.54                      | -                      | -           | 74                  | -19.46         | 168            | 335         | V        |
| 2      | ** 2.52352      | 42.62                | Pk  | 32.6          | -18.9                  | 0            | 56.32                      | -                      | -           | 74                  | -17.68         | 168            | 335         | V        |
| 3      | * ** 2.4835     | 28.72                | ADV | 32.6          | -19.2                  | .61          | 42.73                      | 54                     | -11.27      | -                   | -              | 168            | 335         | V        |
| 4      | * ** 2.4958     | 29.51                | ADV | 32.7          | -18.9                  | .61          | 43.92                      | 54                     | -10.08      | -                   | -              | 168            | 335         | 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

**HARMONICS AND SPURIOUS EMISSIONS**

**LOW CHANNEL, CH 1 RESULTS**



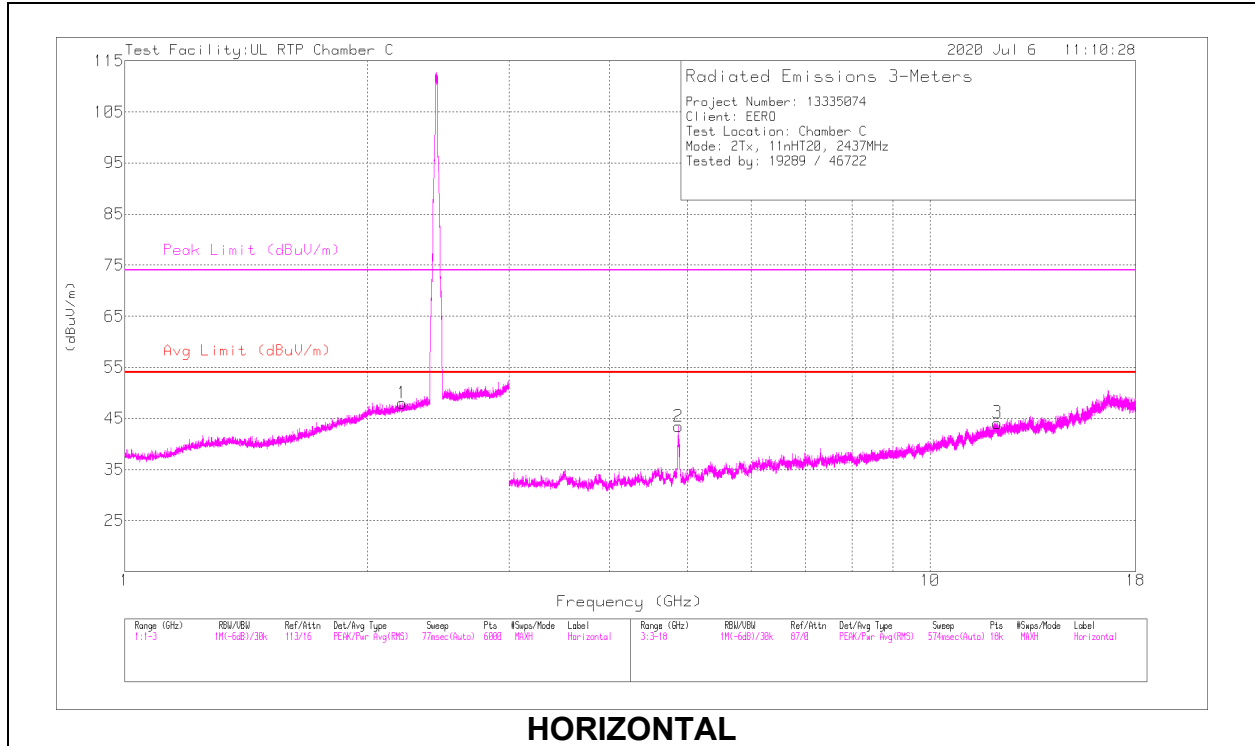
**RADIATED EMISSIONS**

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0062 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | *** 2.2102      | 41.13                | PK2 | 31.7          | -19.7                  | 0            | 53.13                      | -                  | -           | 74                  | -20.87         | 191            | 148         | H        |
|        | *** 2.20897     | 28.26                | ADV | 31.7          | -19.7                  | .61          | 40.87                      | 54                 | -13.13      | -                   | -              | 191            | 148         | H        |
| 4      | *** 2.87022     | 41.23                | PK2 | 32.5          | -18.3                  | 0            | 55.43                      | -                  | -           | 74                  | -18.57         | 347            | 164         | V        |
|        | *** 2.87189     | 28.64                | ADV | 32.5          | -18.3                  | .61          | 43.45                      | 54                 | -10.55      | -                   | -              | 347            | 164         | V        |
| 2      | *** 4.82067     | 67.34                | PK2 | 34.1          | -49.5                  | 0            | 51.94                      | -                  | -           | 74                  | -22.06         | 7              | 228         | H        |
|        | *** 4.82109     | 54.35                | ADV | 34.1          | -49.5                  | .61          | 39.56                      | 54                 | -14.44      | -                   | -              | 7              | 228         | H        |
| 3      | *** 12.05208    | 50.61                | PK2 | 38.8          | -39.4                  | 0            | 50.01                      | -                  | -           | 74                  | -23.99         | 200            | 191         | H        |
|        | *** 12.04878    | 38.36                | ADV | 38.8          | -39.5                  | .61          | 38.27                      | 54                 | -15.73      | -                   | -              | 200            | 191         | H        |
| 5      | *** 4.82104     | 66.3                 | PK2 | 34.1          | -49.5                  | 0            | 50.9                       | -                  | -           | 74                  | -23.1          | 219            | 158         | V        |
|        | *** 4.82171     | 53.61                | ADV | 34.1          | -49.5                  | .61          | 38.82                      | 54                 | -15.18      | -                   | -              | 219            | 158         | V        |
| 6      | *** 15.98763    | 50.32                | PK2 | 41.1          | -37                    | 0            | 54.42                      | -                  | -           | 74                  | -19.58         | 168            | 102         | V        |
|        | *** 15.98934    | 37.86                | ADV | 41.1          | -37.1                  | .61          | 42.47                      | 54                 | -11.53      | -                   | -              | 168            | 102         | V        |

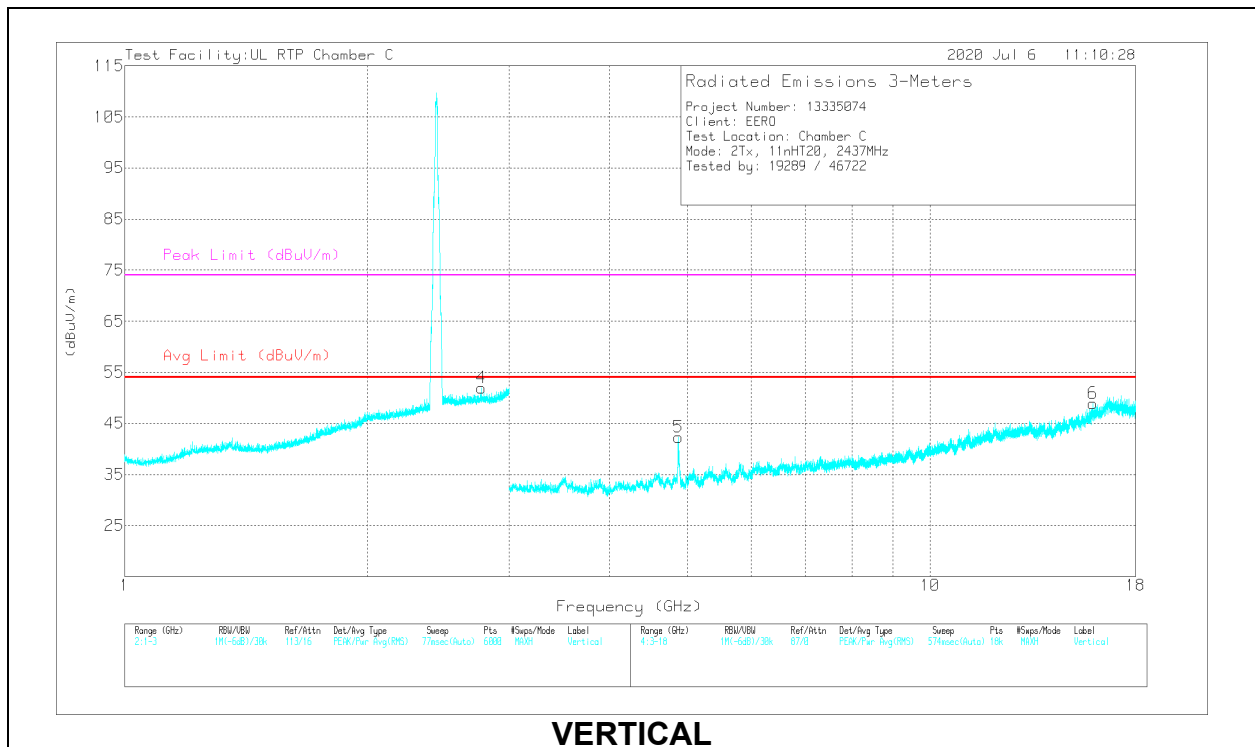
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 PK2 - Maximum Peak  
 ADV - Linear Voltage Average



### MID CHANNEL, CH 6 RESULTS



**HORIZONTAL**



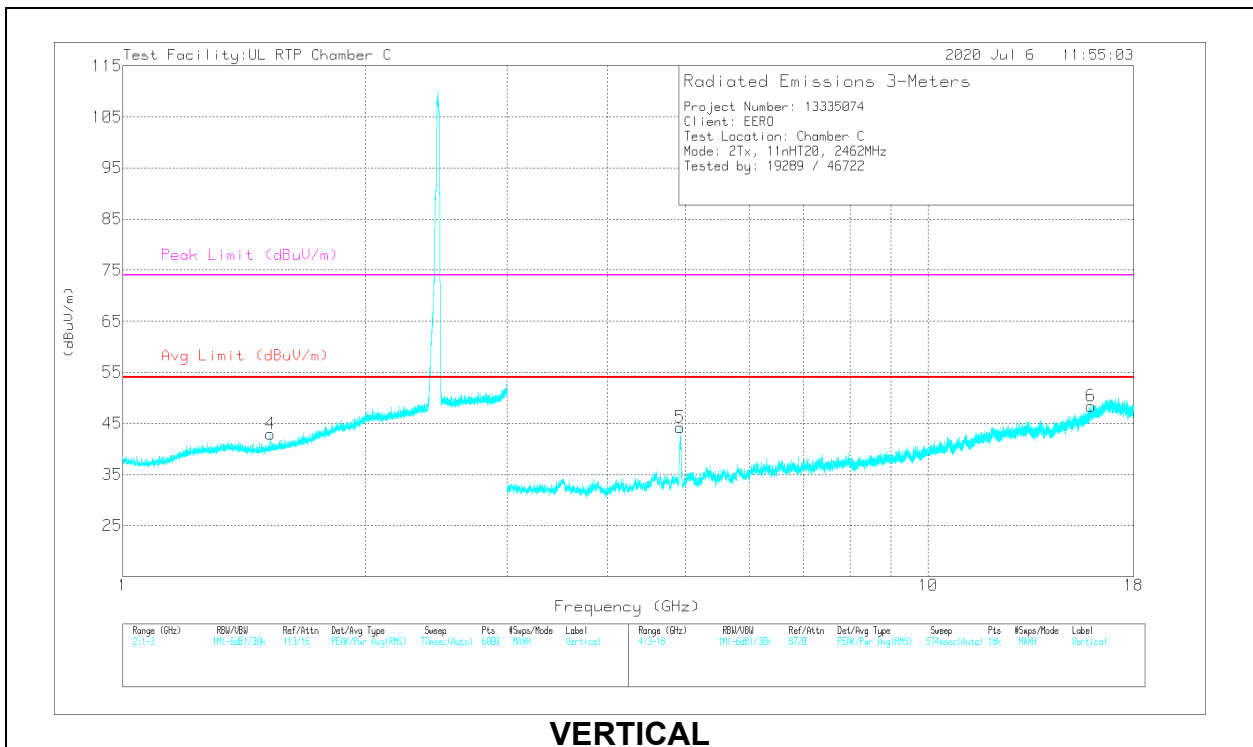
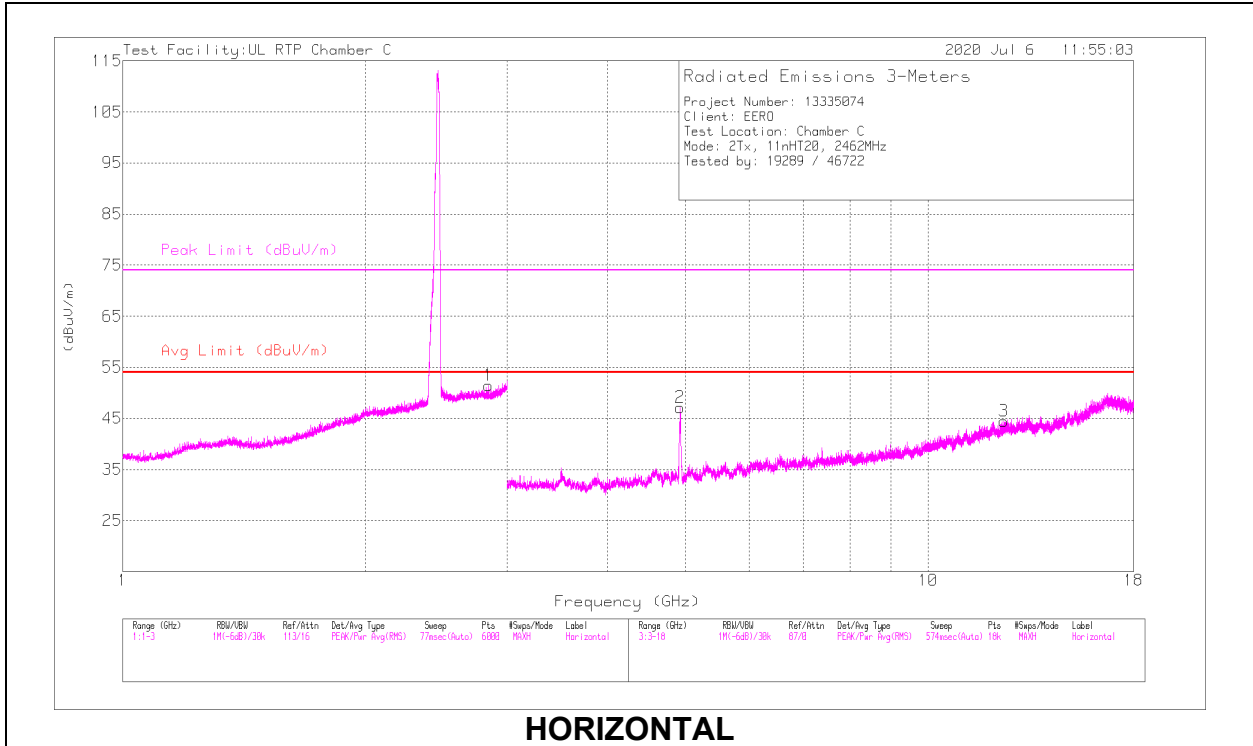
**VERTICAL**

**RADIATED EMISSIONS**

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0062 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | *** 2.20909     | 41.24                | PK2 | 31.7          | -19.7                  | 0            | 53.24                      | -                  | -           | 74                  | -20.76         | 18             | 306         | H        |
|        | *** 2.20829     | 28.22                | ADV | 31.7          | -19.7                  | .61          | 40.83                      | 54                 | -13.17      | -                   | -              | 18             | 306         | H        |
| 4      | *** 2.77061     | 41.95                | PK2 | 32.4          | -18.3                  | 0            | 56.05                      | -                  | -           | 74                  | -17.95         | 98             | 341         | V        |
|        | *** 2.77083     | 28.94                | ADV | 32.4          | -18.3                  | .61          | 43.65                      | 54                 | -10.35      | -                   | -              | 98             | 341         | V        |
| 2      | *** 4.87065     | 64.4                 | PK2 | 34            | -48.8                  | 0            | 49.6                       | -                  | -           | 74                  | -24.4          | 339            | 397         | H        |
|        | *** 4.87039     | 51.27                | ADV | 34            | -48.8                  | .61          | 37.08                      | 54                 | -16.92      | -                   | -              | 339            | 397         | H        |
| 3      | *** 12.12336    | 53.06                | PK2 | 38.9          | -41                    | 0            | 50.96                      | -                  | -           | 74                  | -23.04         | 60             | 399         | H        |
|        | *** 12.12336    | 39.88                | ADV | 38.9          | -41                    | .61          | 38.39                      | 54                 | -15.61      | -                   | -              | 60             | 399         | H        |
| 5      | *** 4.87291     | 61.53                | PK2 | 34            | -48.9                  | 0            | 46.63                      | -                  | -           | 74                  | -27.37         | 346            | 395         | V        |
|        | *** 4.87236     | 48.98                | ADV | 34            | -48.9                  | .61          | 34.69                      | 54                 | -19.31      | -                   | -              | 346            | 395         | V        |
| 6      | *** 15.92993    | 50.83                | PK2 | 41            | -37.2                  | 0            | 54.63                      | -                  | -           | 74                  | -19.37         | 157            | 146         | V        |
|        | *** 15.92907    | 38.11                | ADV | 41            | -37.2                  | .61          | 42.52                      | 54                 | -11.48      | -                   | -              | 157            | 146         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 PK2 - Maximum Peak  
 ADV - Linear Voltage Average

### HIGH CHANNEL, CH 11 RESULTS



**RADIATED EMISSIONS**

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0062 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | *** 2.84537     | 41.69                | PK2 | 32.4          | -18.2                  | 0            | 55.89                      | -                  | -           | 74                  | -18.11         | 273            | 191         | H        |
|        | *** 2.84528     | 28.65                | ADV | 32.4          | -18.2                  | .61          | 43.46                      | 54                 | -10.54      | -                   | -              | 273            | 191         | H        |
| 4      | *** 1.52448     | 40.6                 | PK2 | 28            | -20.9                  | 0            | 47.7                       | -                  | -           | 74                  | -26.3          | 169            | 247         | V        |
|        | *** 1.52462     | 27.08                | ADV | 28            | -20.9                  | .61          | 34.79                      | 54                 | -19.21      | -                   | -              | 169            | 247         | V        |
| 2      | *** 4.92095     | 68.9                 | PK2 | 34            | -48.9                  | 0            | 54                         | -                  | -           | 74                  | -20            | 332            | 261         | H        |
|        | *** 4.9201      | 56.13                | ADV | 34            | -48.9                  | .61          | 41.84                      | 54                 | -12.16      | -                   | -              | 332            | 261         | H        |
| 3      | *** 12.4141     | 52.09                | PK2 | 39            | -40.2                  | 0            | 50.89                      | -                  | -           | 74                  | -23.11         | 120            | 398         | H        |
|        | *** 12.41379    | 39.23                | ADV | 39            | -40.2                  | .61          | 38.64                      | 54                 | -15.36      | -                   | -              | 120            | 398         | H        |
| 5      | *** 4.92297     | 64.13                | PK2 | 34            | -48.9                  | 0            | 49.23                      | -                  | -           | 74                  | -24.77         | 347            | 394         | V        |
|        | *** 4.92276     | 51.25                | ADV | 34            | -48.9                  | .61          | 36.96                      | 54                 | -17.04      | -                   | -              | 347            | 394         | V        |
| 6      | *** 15.92509    | 50.76                | PK2 | 41            | -37.4                  | 0            | 54.36                      | -                  | -           | 74                  | -19.64         | 110            | 375         | V        |
|        | *** 15.92302    | 38.49                | ADV | 41            | -37.5                  | .61          | 42.6                       | 54                 | -11.4       | -                   | -              | 110            | 375         | V        |

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

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

PK2 - Maximum Peak

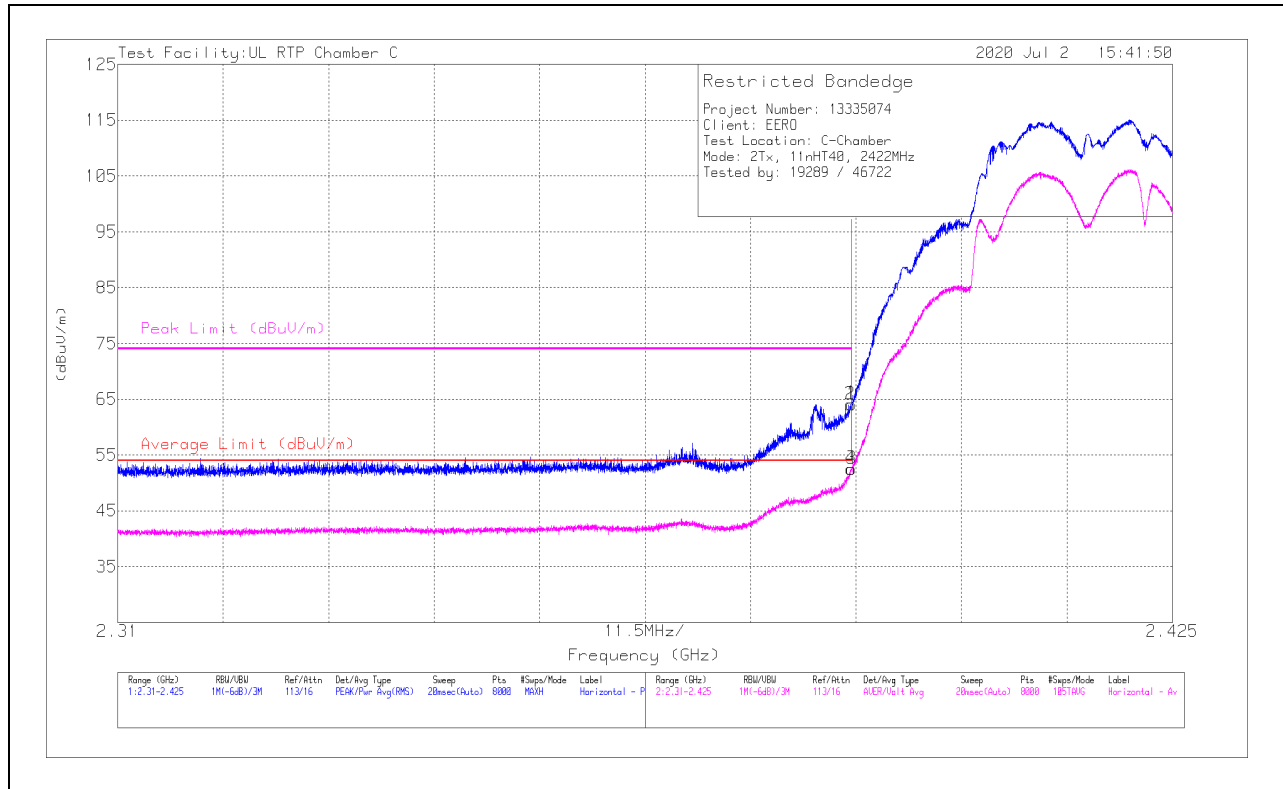
ADV - Linear Voltage Average

**10.1.4. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 2.4 GHz BAND**

**2TX Antenna 1 + Antenna 2 CDD MODE**

**BANDEDGE (LOW CHANNEL, CH 3)**

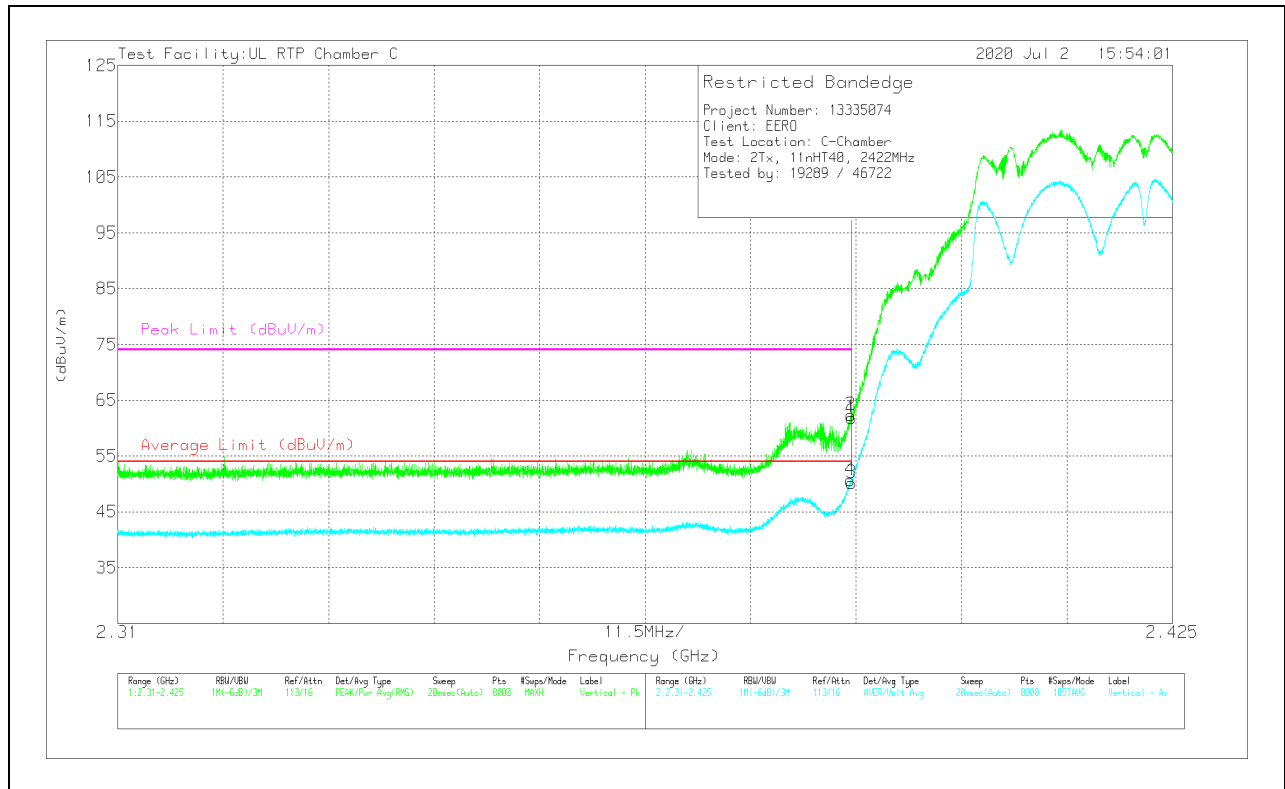
**HORIZONTAL RESULT**



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0062 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * ** 2.38999    | 51.33                | Pk  | 32.1          | -19.3                  | 0            | 64.13                      | -                      | -           | 74                  | -9.87          | 120            | 239         | H        |
| 2      | * ** 2.38985    | 51.25                | Pk  | 32.1          | -19.3                  | 0            | 64.05                      | -                      | -           | 74                  | -9.95          | 120            | 239         | H        |
| 3      | * ** 2.38999    | 39.26                | ADV | 32.1          | -19.3                  | .45          | 52.51                      | 54                     | -1.49       | -                   | -              | 120            | 239         | H        |
| 4      | * ** 2.38994    | 39.23                | ADV | 32.1          | -19.3                  | .45          | 52.48                      | 54                     | -1.52       | -                   | -              | 120            | 239         | 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

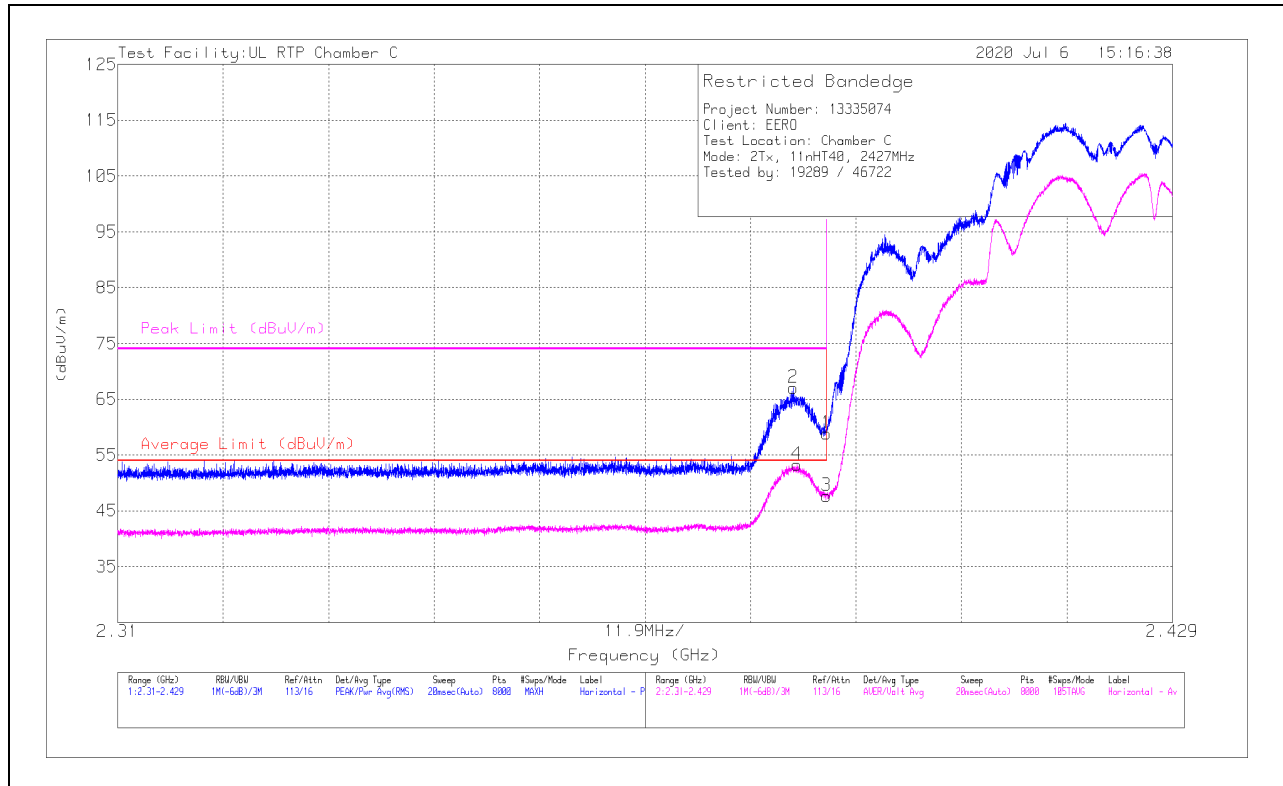


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0062 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * ** 2.38999    | 49.04                | Pk  | 32.1          | -19.3                  | 0            | 61.84                      | -                      | -           | 74                  | -12.16         | 211            | 277         | V        |
| 2      | * ** 2.38997    | 49.56                | Pk  | 32.1          | -19.3                  | 0            | 62.36                      | -                      | -           | 74                  | -11.64         | 211            | 277         | V        |
| 3      | * ** 2.38999    | 36.9                 | ADV | 32.1          | -19.3                  | .45          | 50.15                      | 54                     | -3.85       | -                   | -              | 211            | 277         | V        |
| 4      | * ** 2.38991    | 37.47                | ADV | 32.1          | -19.3                  | .45          | 50.72                      | 54                     | -3.28       | -                   | -              | 211            | 277         | 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 (LOW CHANNEL, CH 4)**

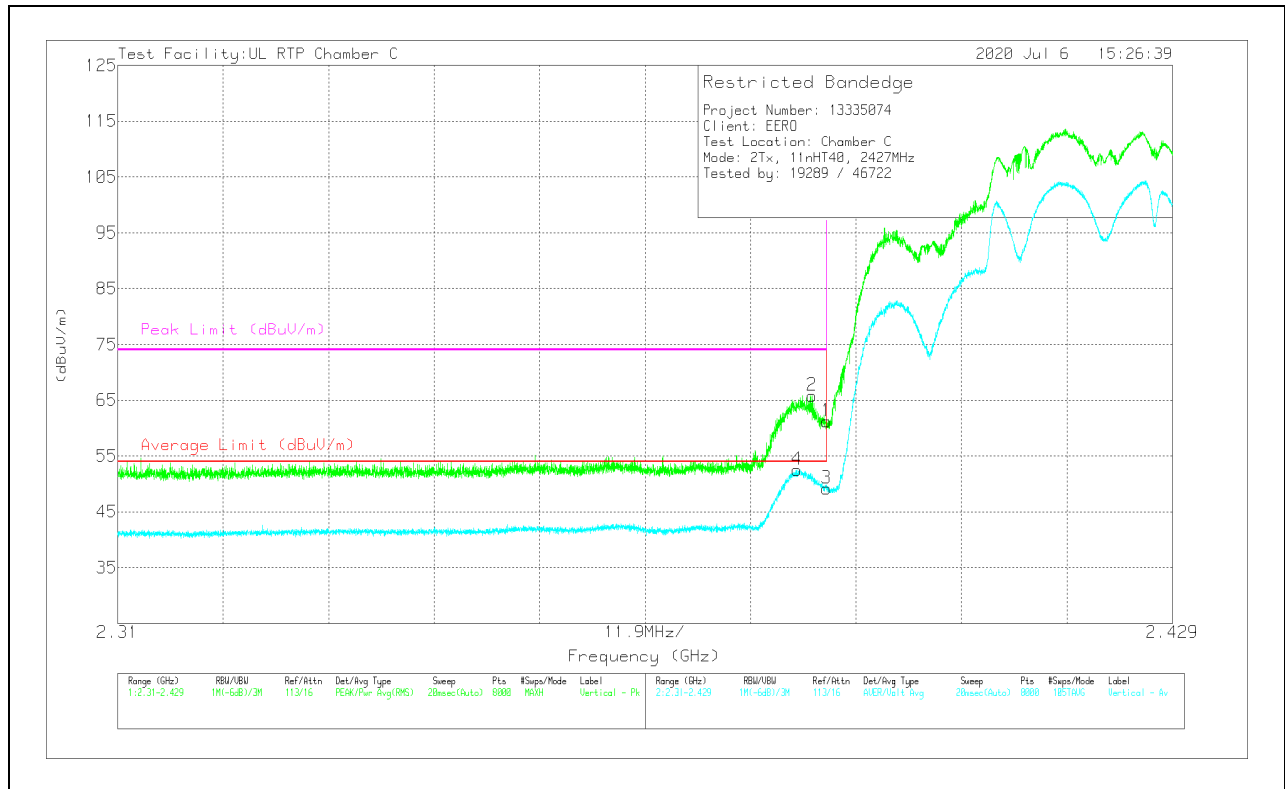
**HORIZONTAL RESULT**



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0062 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * ** 2.38999    | 46.05                | Pk  | 32.1          | -19.3                  | 0            | 58.85                      | -                      | -           | 74                  | -15.15         | 122            | 157         | H        |
| 2      | * ** 2.38623    | 54.44                | Pk  | 32            | -19.4                  | 0            | 67.04                      | -                      | -           | 74                  | -6.96          | 122            | 157         | H        |
| 3      | * ** 2.38999    | 34.45                | ADV | 32.1          | -19.3                  | .45          | 47.7                       | 54                     | -6.3        | -                   | -              | 122            | 157         | H        |
| 4      | * ** 2.38665    | 40.08                | ADV | 32            | -19.3                  | .45          | 53.23                      | 54                     | -7.7        | -                   | -              | 122            | 157         | 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



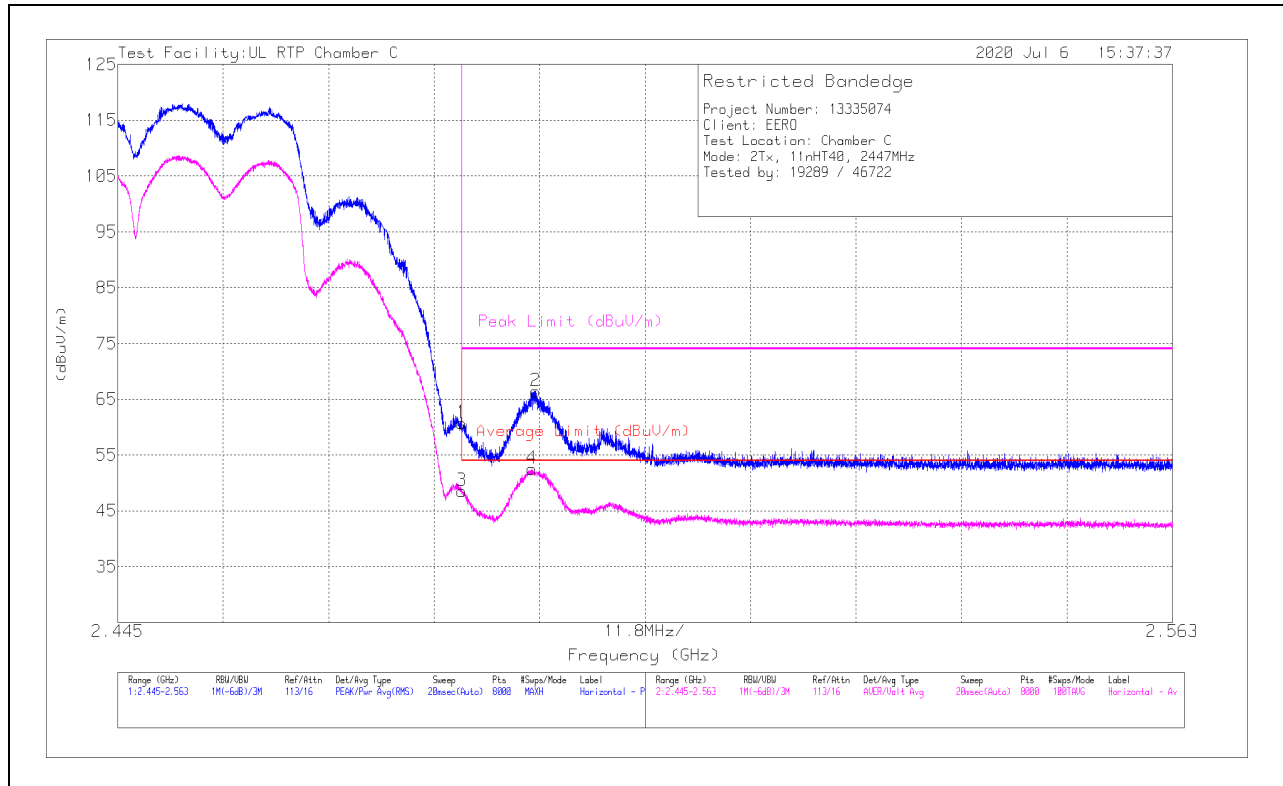
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0062 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * ** 2.38999    | 48.4                 | Pk  | 32.1          | -19.3                  | 0            | 61.2                       | -                      | -           | 74                  | -12.8          | 215            | 282         | V        |
| 2      | * ** 2.38836    | 53.14                | Pk  | 32            | -19.3                  | 0            | 65.84                      | -                      | -           | 74                  | -8.16          | 215            | 282         | V        |
| 3      | * ** 2.38999    | 35.94                | ADV | 32.1          | -19.3                  | .45          | 49.19                      | 54                     | -4.81       | -                   | -              | 215            | 282         | V        |
| 4      | * ** 2.38662    | 39.42                | ADV | 32            | -19.3                  | .45          | 52.57                      | 54                     | -1.43       | -                   | -              | 215            | 282         | 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, CH 8)**

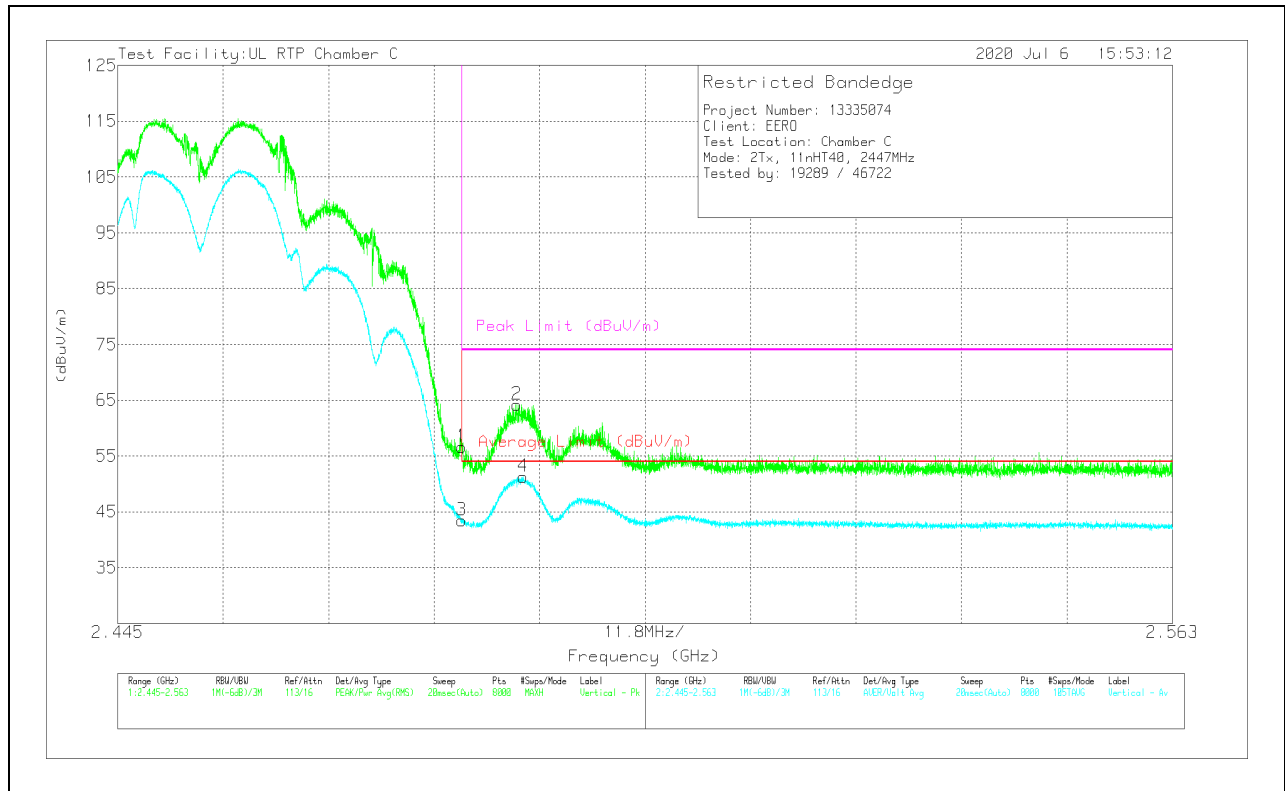
**HORIZONTAL RESULT**



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0062 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * ** 2.4835     | 47.31                | Pk  | 32.6          | -19.2                  | 0            | 60.71                      | -                      | -           | 74                  | -13.29         | 290            | 383         | H        |
| 2      | * ** 2.49175    | 52.78                | Pk  | 32.7          | -19                    | 0            | 66.48                      | -                      | -           | 74                  | -7.52          | 290            | 383         | H        |
| 3      | * ** 2.4835     | 34.67                | ADV | 32.6          | -19.2                  | .45          | 48.52                      | 54                     | -5.48       | -                   | -              | 290            | 383         | H        |
| 4      | * ** 2.49137    | 38.46                | ADV | 32.6          | -19                    | .45          | 52.51                      | 54                     | -1.49       | -                   | -              | 290            | 383         | 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

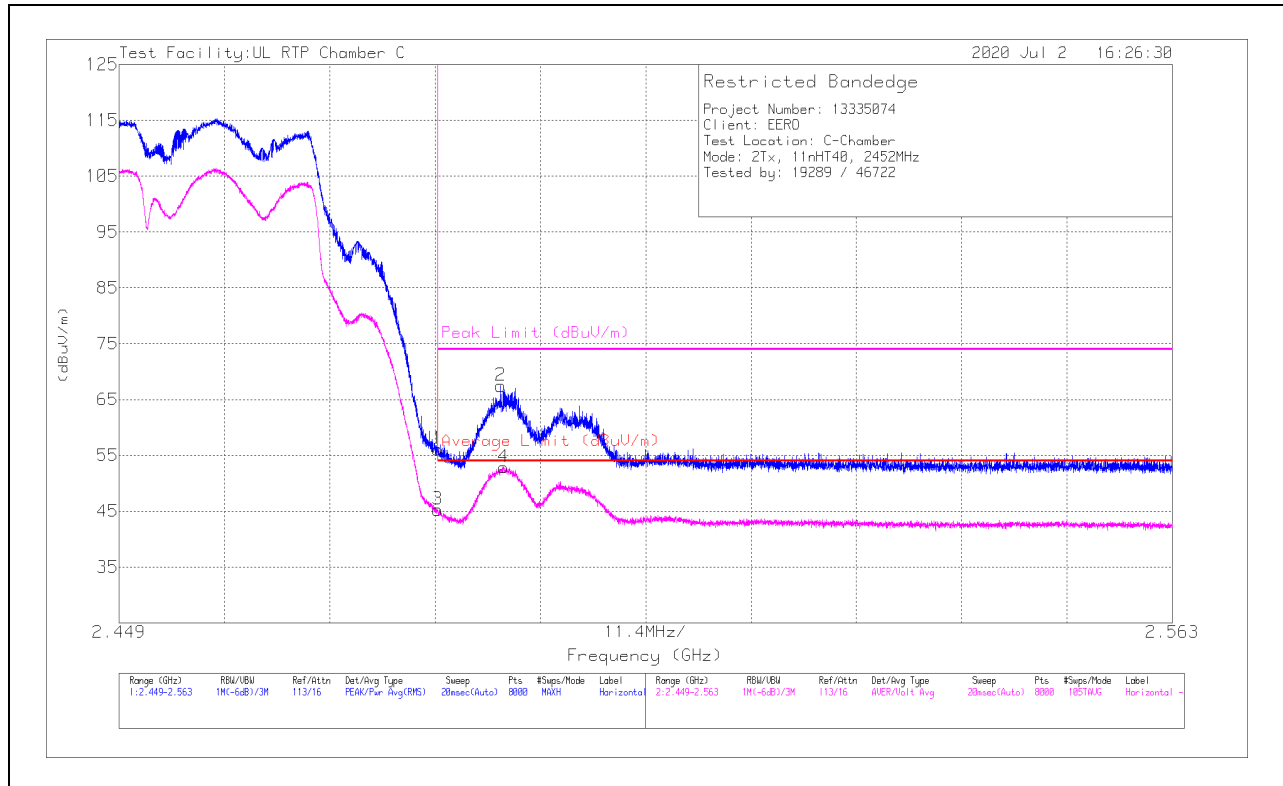


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0062 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * ** 2.4835     | 43.27                | Pk  | 32.6          | -19.2                  | 0            | 56.67                      | -                      | -           | 74                  | -17.33         | 192            | 376         | V        |
| 2      | * ** 2.48967    | 50.69                | Pk  | 32.6          | -19.1                  | 0            | 64.19                      | -                      | -           | 74                  | -9.81          | 192            | 376         | V        |
| 3      | * ** 2.4835     | 29.66                | ADV | 32.6          | -19.2                  | .45          | 43.51                      | 54                     | -10.49      | -                   | -              | 192            | 376         | V        |
| 4      | * ** 2.49035    | 37.37                | ADV | 32.6          | -19.1                  | .45          | 51.32                      | 54                     | -2.68       | -                   | -              | 192            | 376         | 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, CH 9)**

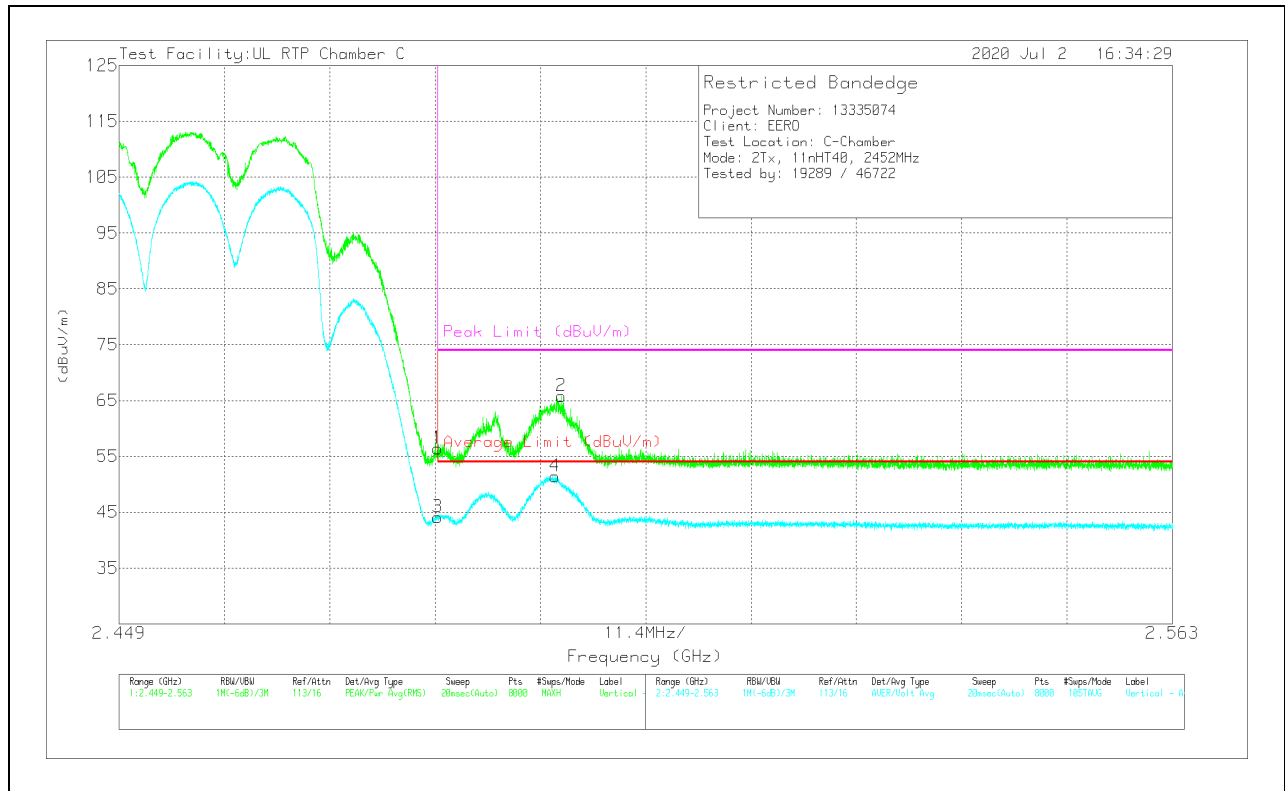
**HORIZONTAL RESULT**



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0062 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | *** 2.4835      | 42.71                | Pk  | 32.6          | -19.2                  | 0            | 56.11                      | -                      | -           | 74                  | -17.89         | 330            | 264         | H        |
| 2      | *** 2.4903      | 53.96                | Pk  | 32.6          | -19.1                  | 0            | 67.46                      | -                      | -           | 74                  | -6.54          | 330            | 264         | H        |
| 3      | *** 2.4835      | 31.43                | ADV | 32.6          | -19.2                  | .45          | 45.28                      | 54                     | -8.72       | -                   | -              | 330            | 264         | H        |
| 4      | *** 2.49062     | 38.93                | ADV | 32.6          | -19.1                  | .45          | 52.88                      | 54                     | -1.12       | -                   | -              | 330            | 264         | 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

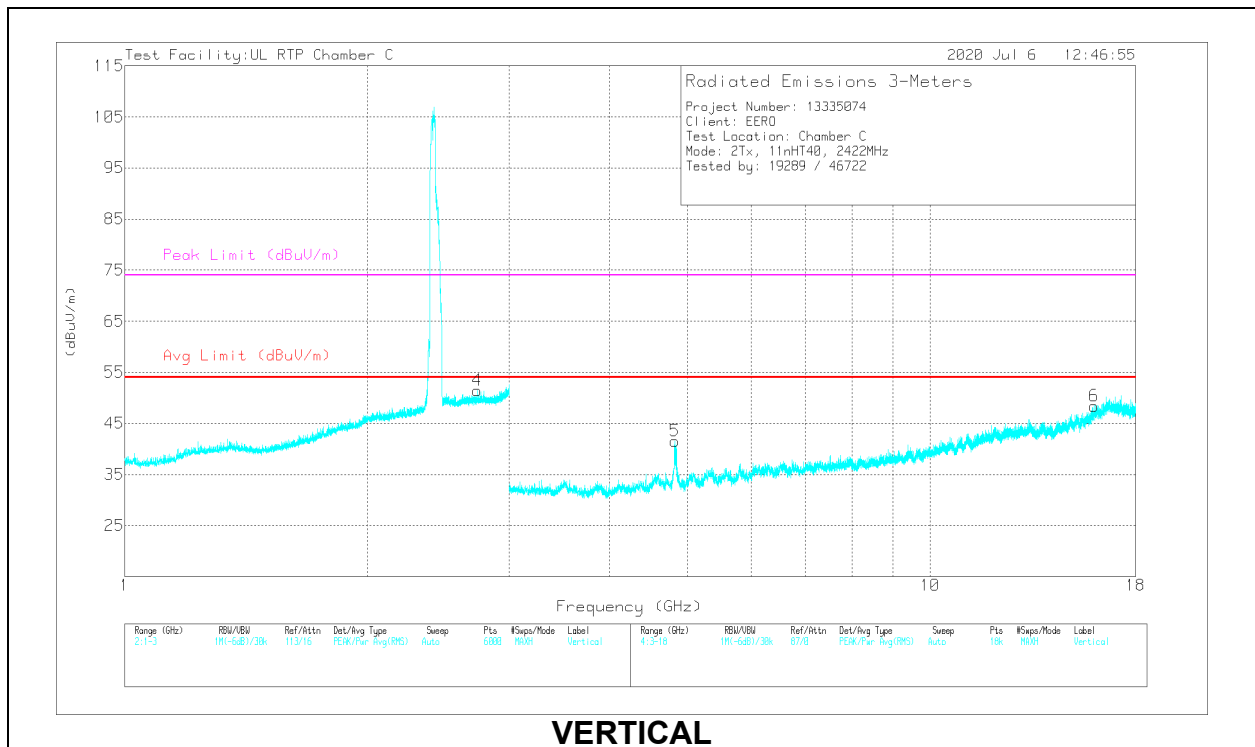
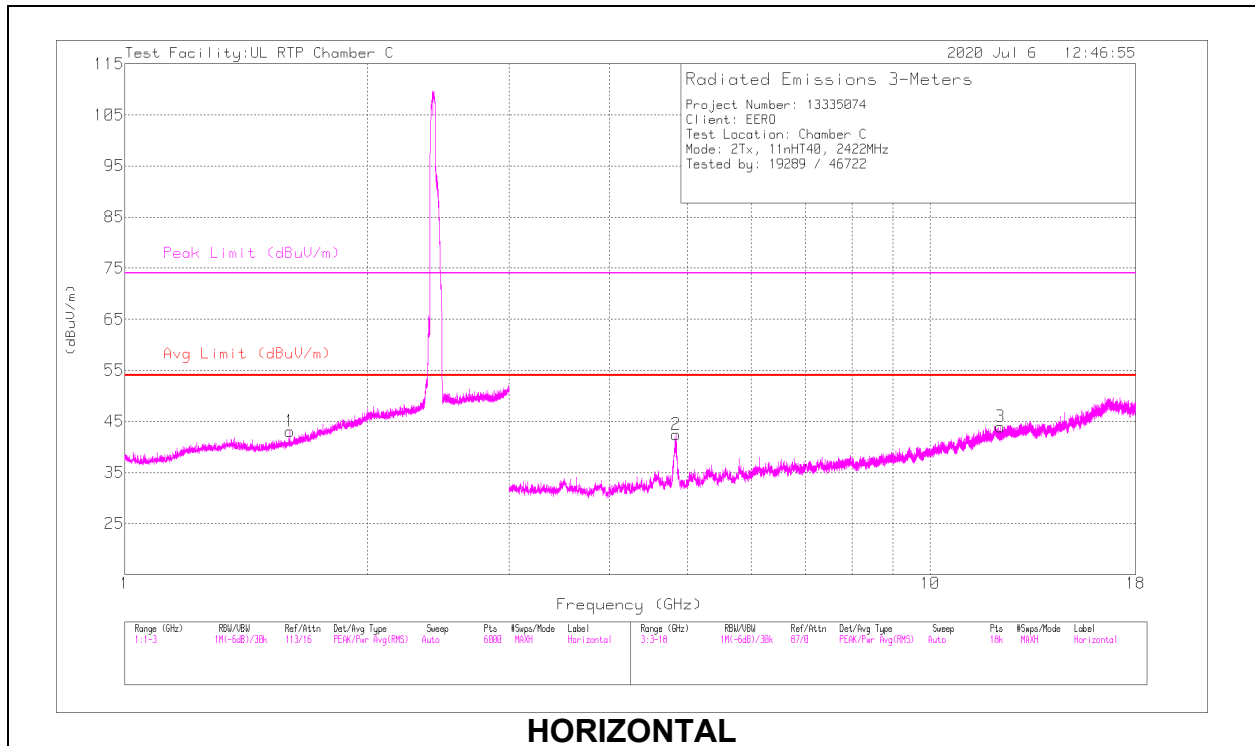


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0062 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | *** 2.4835      | 42.99                | Pk  | 32.6          | -19.2                  | 0            | 56.39                      | -                      | -           | 74                  | -17.61         | 172            | 263         | V        |
| 2      | *** 2.49687     | 51.96                | Pk  | 32.7          | -18.9                  | 0            | 65.76                      | -                      | -           | 74                  | -8.24          | 172            | 263         | V        |
| 3      | *** 2.4835      | 30.24                | ADV | 32.6          | -19.2                  | .45          | 44.09                      | 54                     | -9.91       | -                   | -              | 172            | 263         | V        |
| 4      | *** 2.49619     | 37.15                | ADV | 32.7          | -18.9                  | .45          | 51.4                       | 54                     | -2.6        | -                   | -              | 172            | 263         | 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

**HARMONICS AND SPURIOUS EMISSIONS**

**LOW CHANNEL, CH 3 RESULTS**

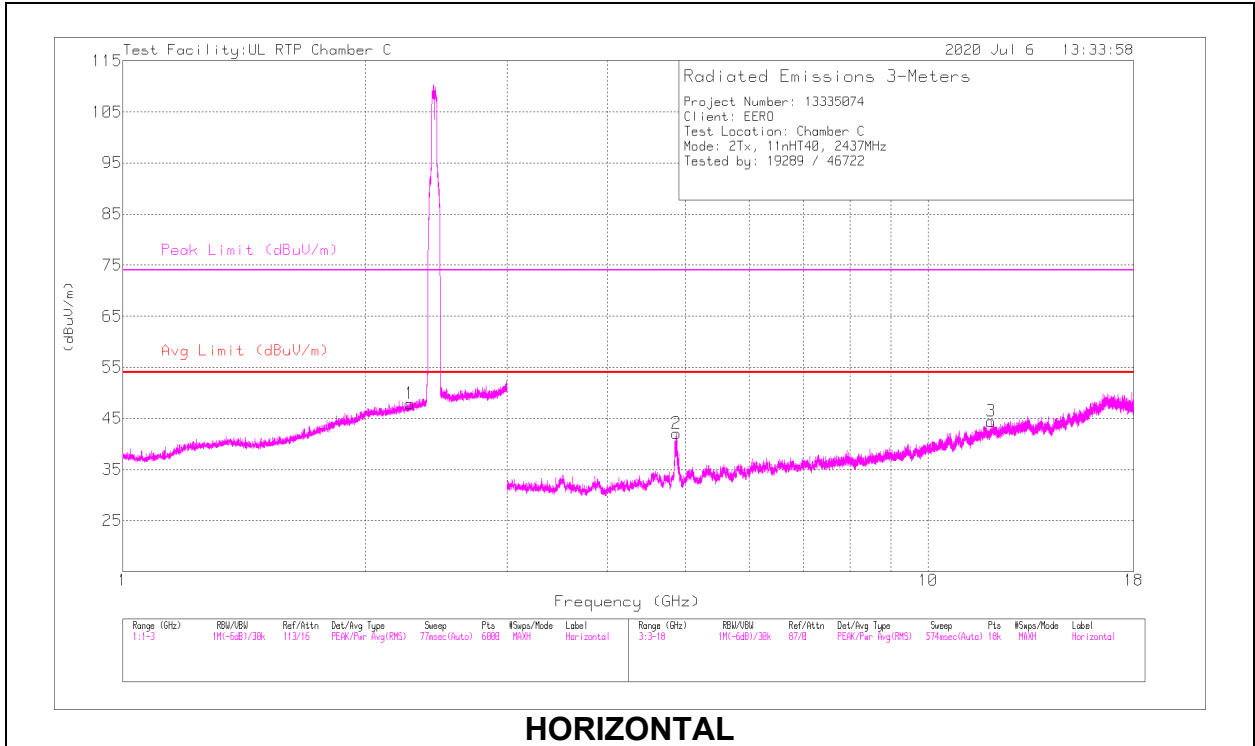


**RADIATED EMISSIONS**

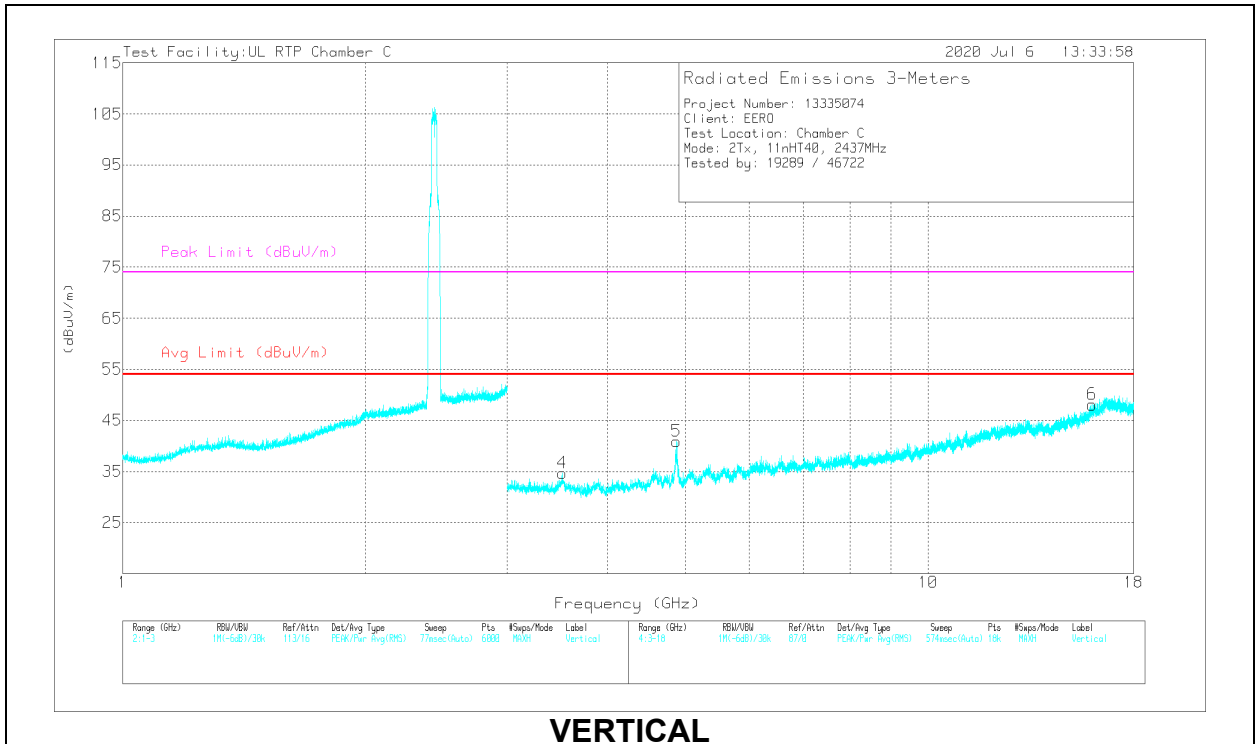
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0062 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | *** 1.60362     | 40.55                | PK2 | 28.3          | -20.7                  | 0            | 48.15                      | -                  | -           | 74                  | -25.85         | 259            | 230         | H        |
|        | *** 1.60153     | 27.22                | ADV | 28.2          | -20.6                  | .45          | 35.27                      | 54                 | -18.73      | -                   | -              | 259            | 230         | H        |
| 4      | *** 2.73935     | 42.61                | PK2 | 32.3          | -18.3                  | 0            | 56.61                      | -                  | -           | 74                  | -17.39         | 210            | 129         | V        |
|        | *** 2.74159     | 28.93                | ADV | 32.3          | -18.3                  | .45          | 43.38                      | 54                 | -10.62      | -                   | -              | 210            | 129         | V        |
| 2      | *** 4.84264     | 63.04                | PK2 | 34            | -49.2                  | 0            | 47.84                      | -                  | -           | 74                  | -26.16         | 314            | 102         | H        |
|        | *** 4.84166     | 50.2                 | ADV | 34            | -49.2                  | .45          | 35.45                      | 54                 | -18.55      | -                   | -              | 314            | 102         | H        |
| 3      | *** 12.22956    | 50.8                 | PK2 | 39            | -40.8                  | 0            | 49                         | -                  | -           | 74                  | -25            | 65             | 104         | H        |
|        | *** 12.22922    | 38.36                | ADV | 39            | -40.8                  | .45          | 37.01                      | 54                 | -16.99      | -                   | -              | 65             | 104         | H        |
| 5      | *** 4.82434     | 60.41                | PK2 | 34.1          | -49.6                  | 0            | 44.91                      | -                  | -           | 74                  | -29.09         | 220            | 102         | V        |
|        | *** 4.8239      | 46.83                | ADV | 34.1          | -49.6                  | .45          | 31.78                      | 54                 | -22.22      | -                   | -              | 220            | 102         | V        |
| 6      | *** 15.99177    | 51.09                | PK2 | 41.1          | -37.2                  | 0            | 54.99                      | -                  | -           | 74                  | -19.01         | 0              | 286         | V        |
|        | *** 15.99189    | 38.05                | ADV | 41.1          | -37.2                  | .45          | 42.4                       | 54                 | -11.6       | -                   | -              | 0              | 286         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 PK2 - Maximum Peak  
 ADV - Linear Voltage Average

### MID CHANNEL, CH 6 RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0062 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | *** 2.27179     | 41.59                | PK2 | 31.8          | -19.5                  | 0            | 53.89                      | -                  | -           | 74                  | -20.11         | 29             | 210         | H        |
|        | *** 2.27117     | 28.28                | ADV | 31.8          | -19.5                  | .45          | 41.03                      | 54                 | -12.97      | -                   | -              | 29             | 210         | H        |
| 2      | *** 4.87223     | 63.26                | PK2 | 34            | -48.9                  | 0            | 48.36                      | -                  | -           | 74                  | -25.64         | 321            | 103         | H        |
|        | *** 4.87211     | 49.41                | ADV | 34            | -48.9                  | .45          | 34.96                      | 54                 | -19.04      | -                   | -              | 321            | 103         | H        |
| 3      | *** 11.98187    | 52.51                | PK2 | 38.8          | -41                    | 0            | 50.31                      | -                  | -           | 74                  | -23.69         | 200            | 265         | H        |
|        | *** 11.9817     | 39.55                | ADV | 38.8          | -41                    | .45          | 37.8                       | 54                 | -16.2       | -                   | -              | 200            | 265         | H        |
| 4      | *** 3.51642     | 57.39                | PK2 | 33.7          | -48.9                  | 0            | 42.19                      | -                  | -           | 74                  | -31.81         | 195            | 398         | V        |
|        | *** 3.51699     | 43.94                | ADV | 33.7          | -49                    | .45          | 29.09                      | 54                 | -24.91      | -                   | -              | 195            | 398         | V        |
| 5      | *** 4.86932     | 63.19                | PK2 | 34            | -48.8                  | 0            | 48.39                      | -                  | -           | 74                  | -25.61         | 68             | 386         | V        |
|        | *** 4.86833     | 50.41                | ADV | 34            | -48.8                  | .45          | 36.06                      | 54                 | -17.94      | -                   | -              | 68             | 386         | V        |
| 6      | *** 15.98159    | 51                   | PK2 | 41.1          | -37.2                  | 0            | 54.9                       | -                  | -           | 74                  | -19.1          | 358            | 236         | V        |
|        | *** 15.98106    | 37.7                 | ADV | 41.1          | -37.2                  | .45          | 42.05                      | 54                 | -11.95      | -                   | -              | 358            | 236         | V        |

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

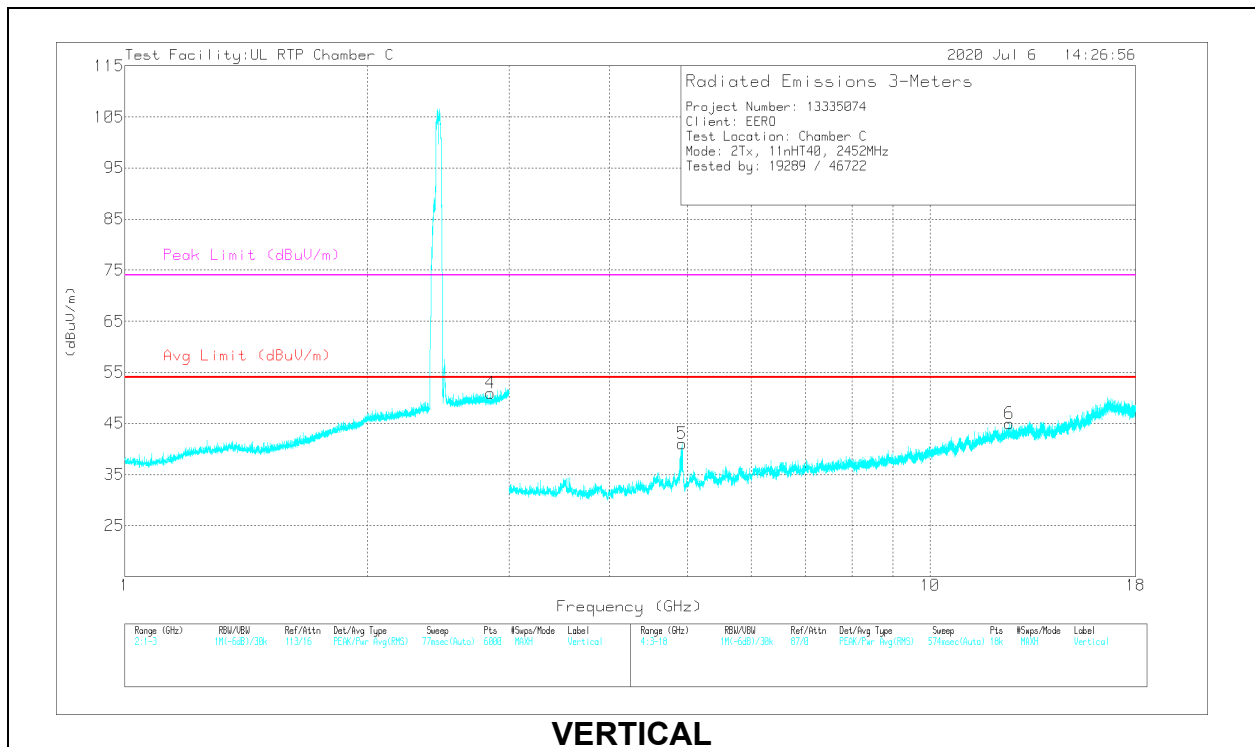
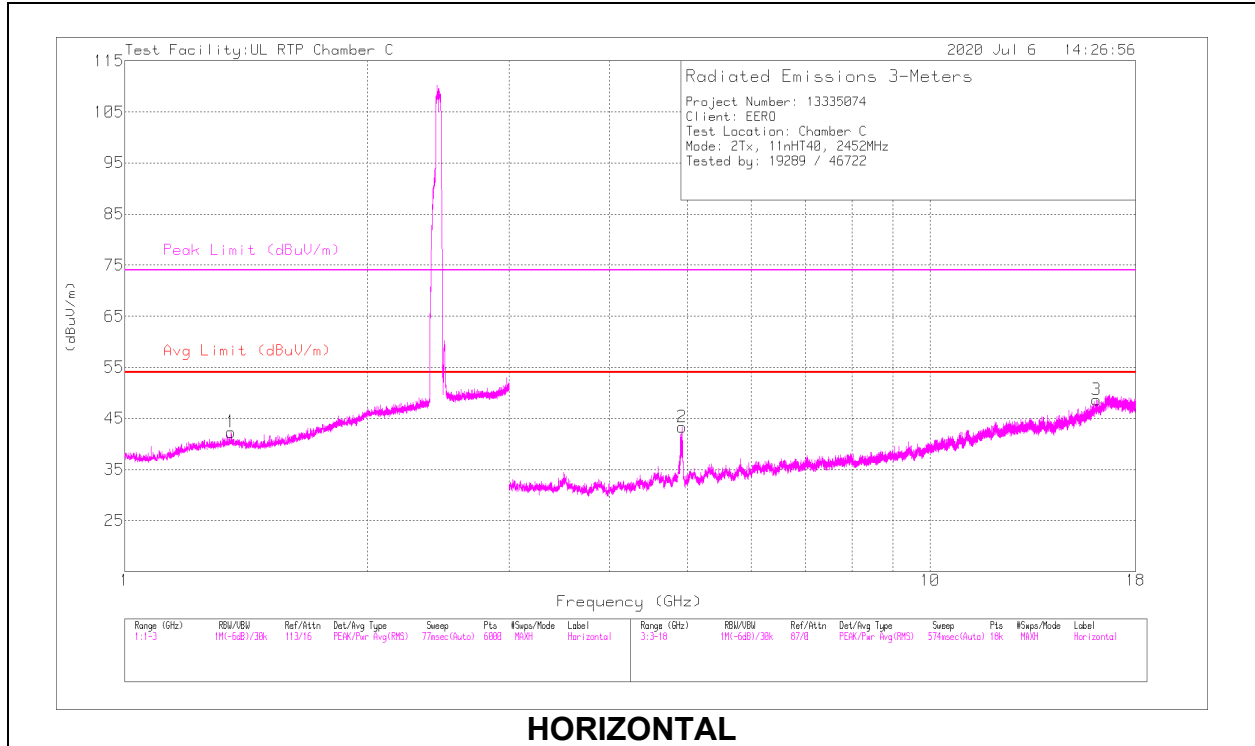
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - Maximum Peak

ADV - Linear Voltage Average



### HIGH CHANNEL, CH 9 RESULTS



**RADIATED EMISSIONS**

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0062 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | *** 1.35562     | 40.22                | PK2 | 28.8          | -21.2                  | 0            | 47.82                      | -                  | -           | 74                  | -26.18         | 359            | 108         | H        |
|        | *** 1.35552     | 26.83                | ADV | 28.8          | -21.2                  | .45          | 34.88                      | 54                 | -19.12      | -                   | -              | 359            | 108         | H        |
| 4      | *** 2.8439      | 41.7                 | PK2 | 32.4          | -18.3                  | 0            | 55.8                       | -                  | -           | 74                  | -18.2          | 270            | 345         | V        |
|        | *** 2.84405     | 28.63                | ADV | 32.4          | -18.3                  | .45          | 43.18                      | 54                 | -10.82      | -                   | -              | 270            | 345         | V        |
| 2      | *** 4.91986     | 64.69                | PK2 | 34            | -48.9                  | 0            | 49.79                      | -                  | -           | 74                  | -24.21         | 1              | 366         | H        |
|        | *** 4.91974     | 50.72                | ADV | 34            | -48.9                  | .45          | 36.27                      | 54                 | -17.73      | -                   | -              | 1              | 366         | H        |
| 3      | *** 16.09648    | 51.12                | PK2 | 41.3          | -37.3                  | 0            | 55.12                      | -                  | -           | 74                  | -18.88         | 223            | 318         | H        |
|        | *** 16.09697    | 38.38                | ADV | 41.3          | -37.4                  | .45          | 42.73                      | 54                 | -11.27      | -                   | -              | 223            | 318         | H        |
| 5      | *** 4.92003     | 63.41                | PK2 | 34            | -48.9                  | 0            | 48.51                      | -                  | -           | 74                  | -25.49         | 83             | 249         | V        |
|        | *** 4.91973     | 48.8                 | ADV | 34            | -48.9                  | .45          | 34.35                      | 54                 | -19.65      | -                   | -              | 83             | 249         | V        |
| 6      | *** 12.55335    | 52.26                | PK2 | 39.1          | -40.5                  | 0            | 50.86                      | -                  | -           | 74                  | -23.14         | 61             | 280         | V        |
|        | *** 12.5534     | 39.2                 | ADV | 39.1          | -40.5                  | .45          | 38.25                      | 54                 | -15.75      | -                   | -              | 61             | 280         | V        |

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

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

PK2 - Maximum Peak

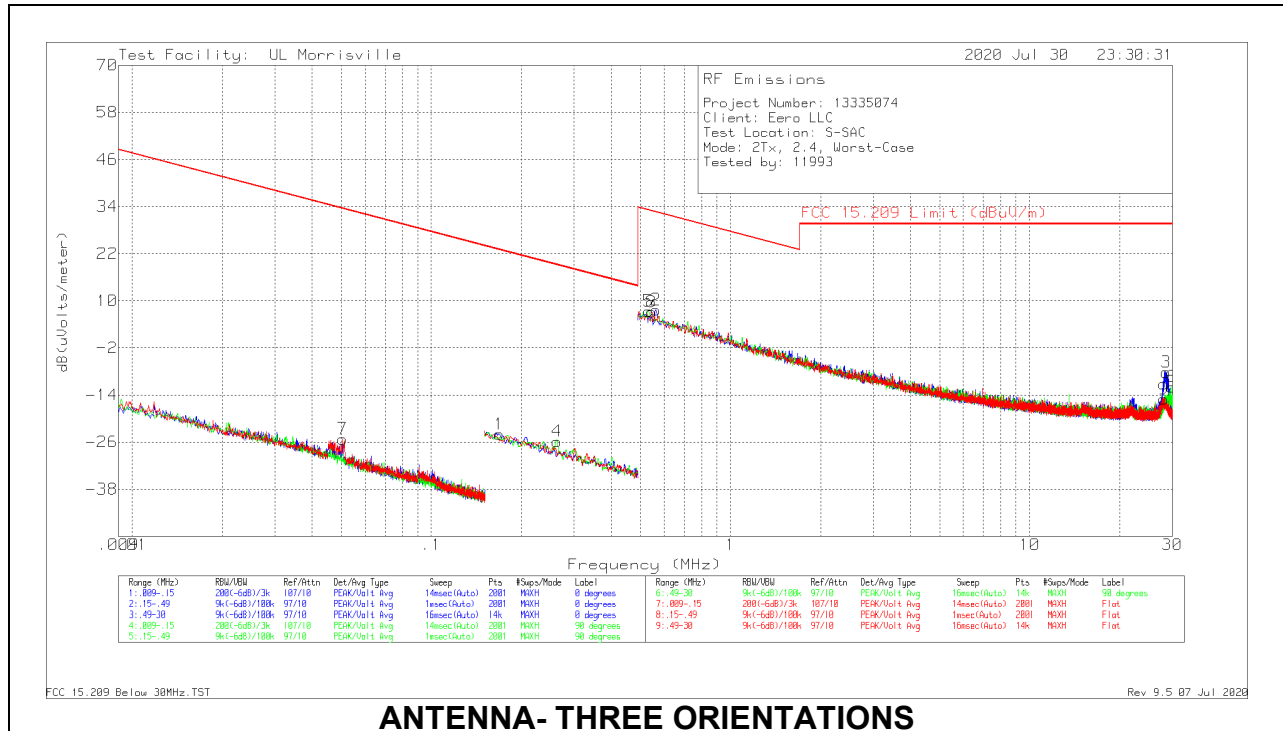
ADV - Linear Voltage Average

## 10.2. WORST CASE BELOW 30MHZ

Note for below 30 MHz scans: All measurements were made at a test distance of 3 m. The measured data was extrapolated from the test distance (3m) to the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz – 30 MHz) to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were  $40 \cdot \log(\text{test distance} / \text{specification distance})$ .

The below 30 MHz limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of  $377\Omega$ . For example, the measurement frequency 50.54 KHz resulted in a level of -25.2 dBuV/m, which is equivalent to  $-25.2 - 51.5 = -76.7$  dBuA/m, which has the same margin, -58.73 dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

### SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION)



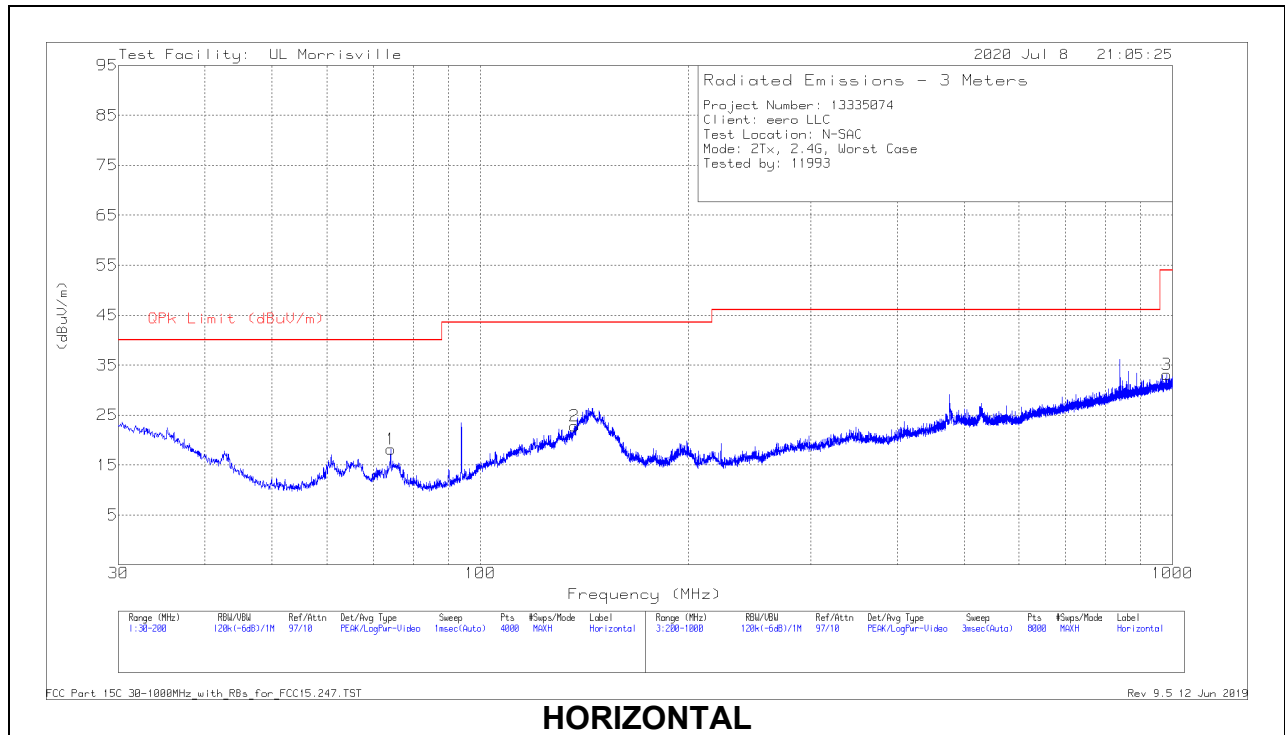
**Below 30MHz Data**

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AT0079 AF (dB/m) | Cbl (dB) | Dist. Corr. Factor (dB) | Corrected Reading dB(uVolts/meter) | FCC 15.209 Avg/QP Limit (dBuV/m) | FCC 15.209 Pk Limit (dBuV/m) | Worst-case Margin (dB) | Azimuth (Degs) |
|--------|-----------------|----------------------|-----|------------------|----------|-------------------------|------------------------------------|----------------------------------|------------------------------|------------------------|----------------|
| 7      | .05054          | 43.2                 | Pk  | 11.5             | .1       | -80                     | -25.2                              | 33.53                            | 53.53                        | -58.73                 | 0-360          |
| 1      | .16887          | 44.89                | Pk  | 11               | .1       | -80                     | -24.01                             | 23.05                            | 43.05                        | -47.06                 | 0-360          |
| 4      | .26356          | 43.08                | Pk  | 11               | .1       | -80                     | -25.82                             | 19.19                            | 39.19                        | -45.01                 | 0-360          |
| 5      | .53216          | 36.27                | Pk  | 11               | .1       | -40                     | 7.37                               | 33.08                            | -                            | -25.71                 | 0-360          |
| 8      | .54481          | 36.1                 | Pk  | 11               | .1       | -40                     | 7.2                                | 32.88                            | -                            | -25.68                 | 0-360          |
| 2      | .56378          | 36.59                | Pk  | 11               | .1       | -40                     | 7.69                               | 32.58                            | -                            | -24.89                 | 0-360          |
| 9      | 28.05737        | 15.58                | Pk  | 8.3              | 1.1      | -40                     | -15.02                             | 29.54                            | -                            | -44.56                 | 0-360          |
| 3      | 28.6044         | 22.46                | Pk  | 8.2              | 1.1      | -40                     | -8.24                              | 29.54                            | -                            | -37.78                 | 0-360          |
| 6      | 29.83968        | 18.98                | Pk  | 8                | 1.1      | -40                     | -11.92                             | 29.54                            | -                            | -41.46                 | 0-360          |

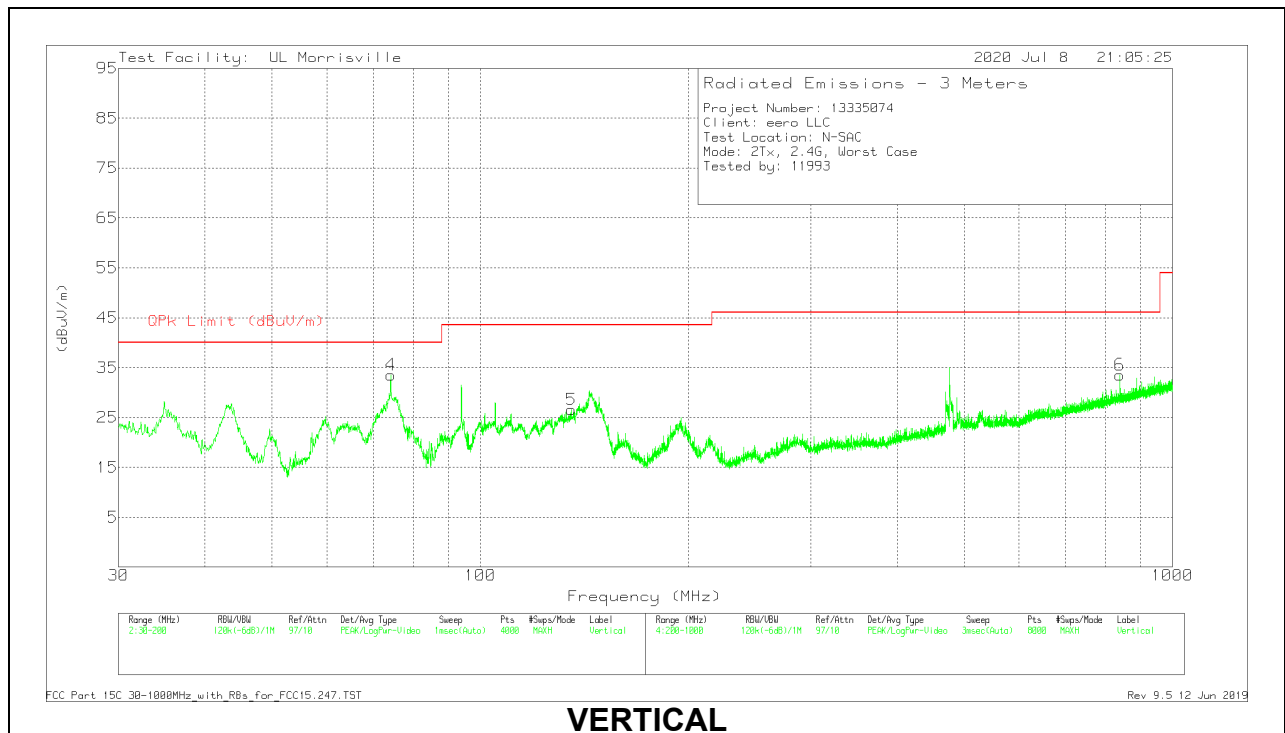
Pk - Peak detector

### 10.3. WORST CASE BELOW 1 GHZ

#### SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)



**HORIZONTAL**



**VERTICAL**

**Below 1GHz Data**

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AT0073 AF (dB/m) | Cbl/Amp (dB) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|------------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1      | * ** 74.254     | 35.24                | Pk  | 14               | -31.1        | 18.14                      | 40                 | -21.86      | 0-360          | 399         | H        |
| 2      | * ** 136.9152   | 34.05                | Pk  | 19.4             | -30.6        | 22.85                      | 43.52              | -20.67      | 0-360          | 399         | H        |
| 4      | * ** 74.254     | 50.65                | Pk  | 14               | -31.1        | 33.55                      | 40                 | -6.45       | 0-360          | 102         | V        |
| 5      | * ** 135.2997   | 37.68                | Pk  | 19.5             | -30.6        | 26.58                      | 43.52              | -16.94      | 0-360          | 102         | V        |
| 3      | * ** 980.7015   | 29.32                | Pk  | 29.1             | -25.3        | 33.12                      | 53.97              | -20.85      | 0-360          | 102         | H        |
| 6      | ** 839.9832     | 32.64                | Pk  | 27.8             | -26.9        | 33.54                      | 46.02              | -12.48      | 0-360          | 102         | V        |

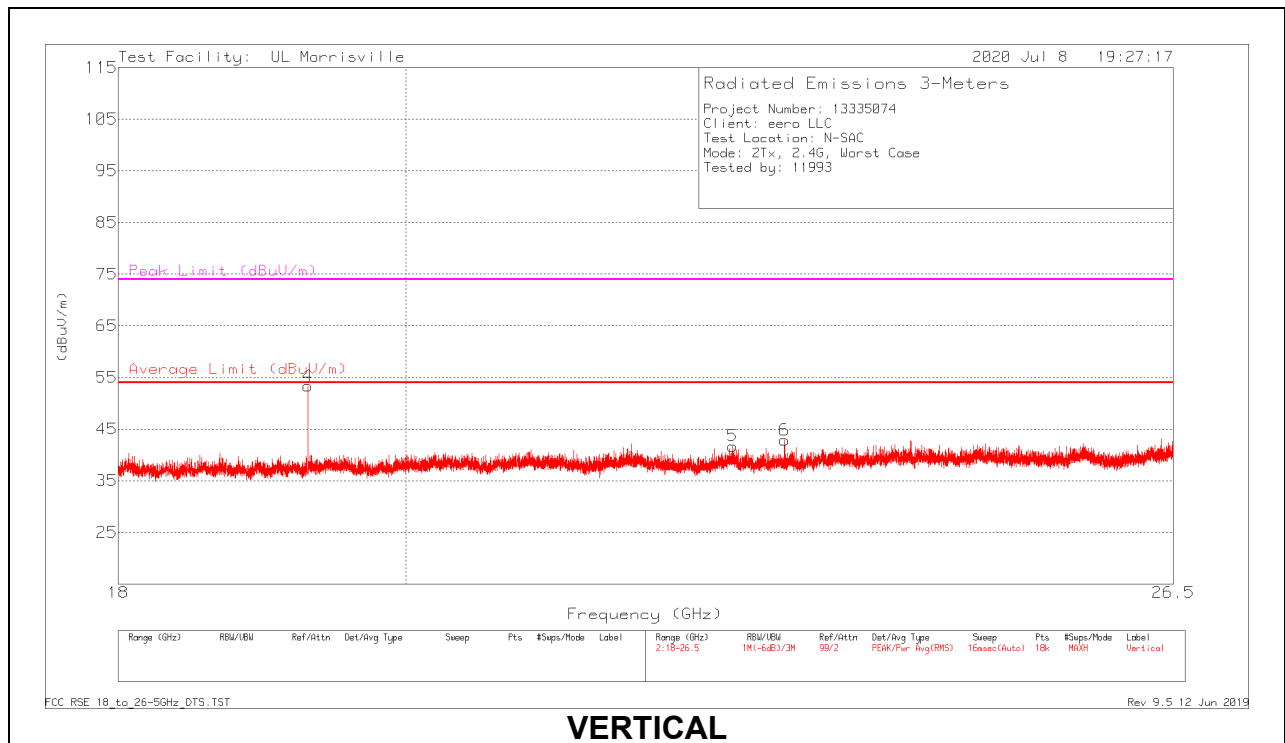
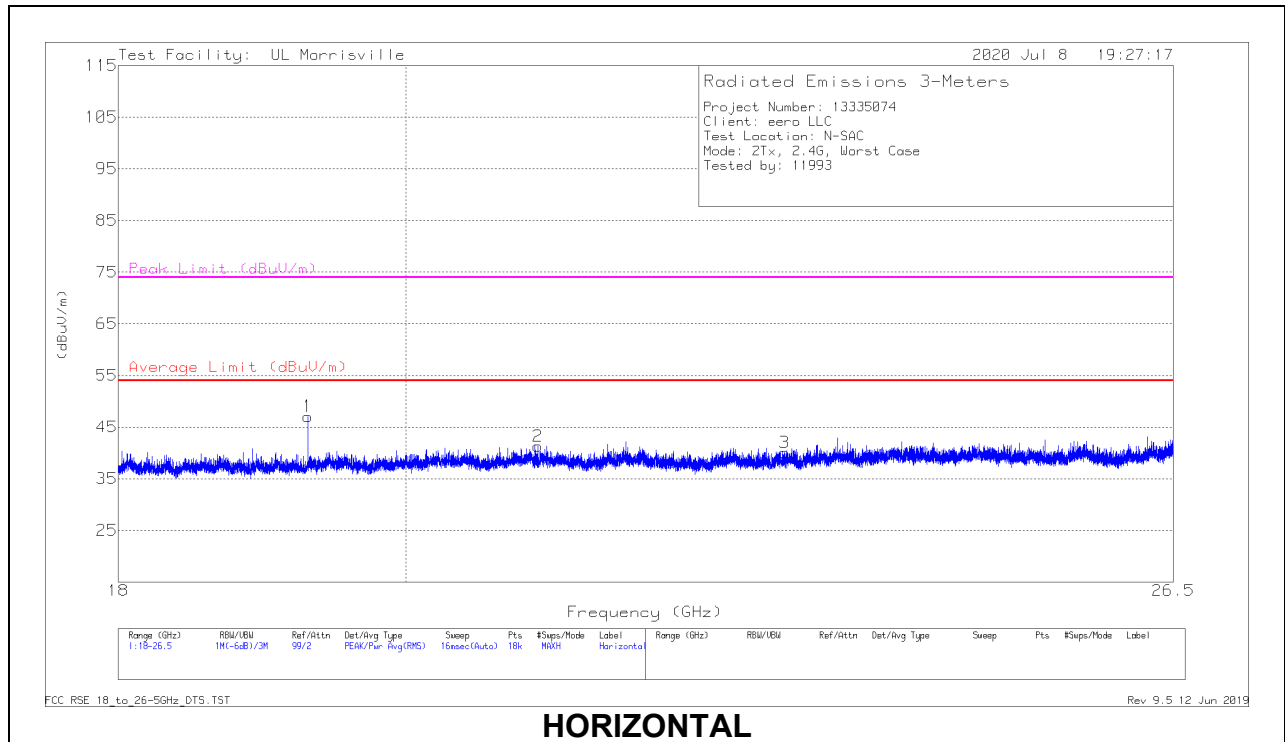
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

Pk - Peak detector

### 10.4. WORST CASE 18-26 GHZ

#### SPURIOUS EMISSIONS 18-26 GHz (WORST-CASE CONFIGURATION)



**18 – 26GHz DATA**

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AT0076 AF (dB/m) | Amp/Cbl (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|--------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | *** 19.29585    | 53.54                | Pk   | 32.9             | -39.4        | 47.04                      | 54                     | -6.96       | 74                  | -26.96      | 0-360          | 298         | H        |
| 2      | *** 20.99358    | 47.48                | Pk   | 33.2             | -39.4        | 41.28                      | 54                     | -12.72      | 74                  | -32.72      | 0-360          | 298         | H        |
| 3      | *** 22.97986    | 45.37                | Pk   | 33.7             | -39          | 40.07                      | 54                     | -13.93      | 74                  | -33.93      | 0-360          | 298         | H        |
| 4      | *** 19.29578    | 61.7                 | PK2  | 32.9             | -39.4        | 55.2                       | -                      | -           | 74                  | -18.8       | 286            | 398         | V        |
|        | *** 19.29582    | 59.85                | V1TV | 32.9             | -39.4        | 53.35                      | 54                     | -.65        | -                   | -           | 286            | 398         | V        |
| 5      | *** 22.54586    | 47.11                | Pk   | 33.5             | -38.9        | 41.71                      | 54                     | -12.29      | 74                  | -32.29      | 0-360          | 298         | V        |
| 6      | *** 22.97986    | 48.15                | Pk   | 33.7             | -39          | 42.85                      | 54                     | -11.15      | 74                  | -31.15      | 0-360          | 298         | V        |

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

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

Pk - Peak detector

PK2 - Maximum Peak

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration



## 11. AC POWER LINE CONDUCTED EMISSIONS

### LIMITS

FCC §15.207 (a)  
RSS-Gen 8.8

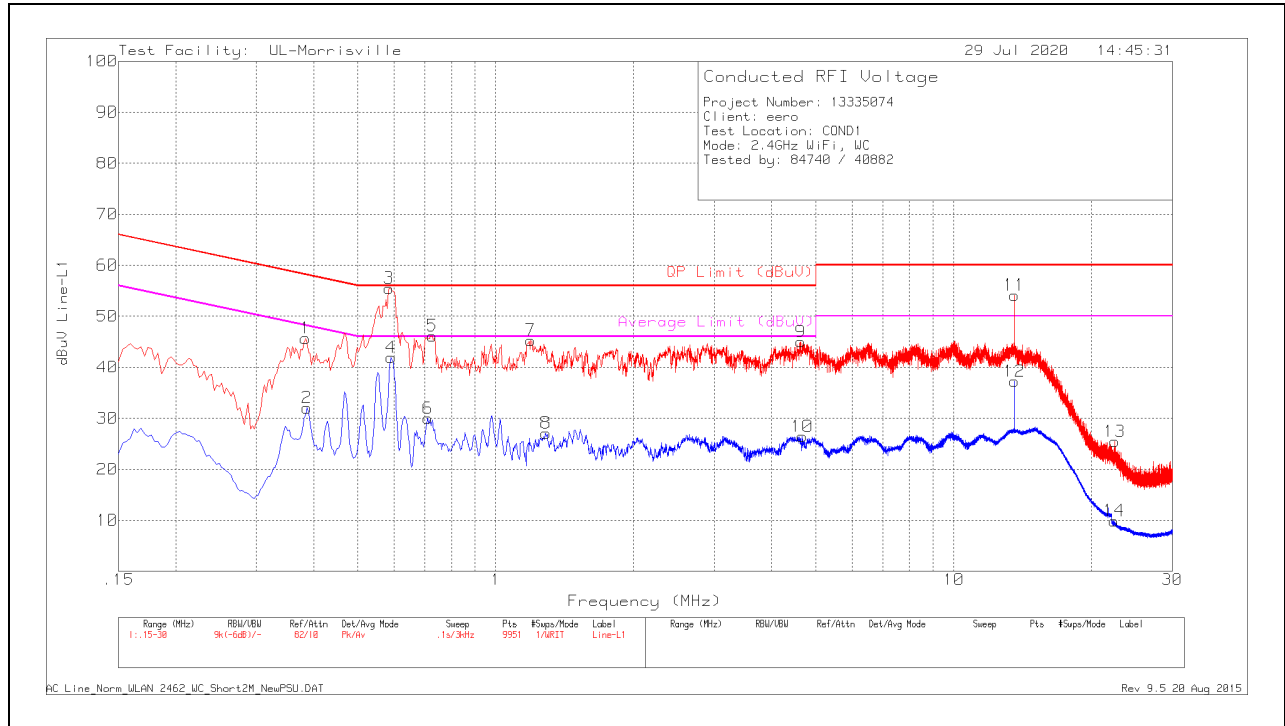
| Frequency of Emission (MHz) | Conducted Limit (dBuV) |           |
|-----------------------------|------------------------|-----------|
|                             | Quasi-peak             | Average   |
| 0.15-0.5                    | 66 to 56*              | 56 to 46* |
| 0.5-5                       | 56                     | 46        |
| 5-30                        | 60                     | 50        |

\* Decreases with the logarithm of the frequency.

### RESULTS

# 11.1. AC POWER LINE HOST

## LINE 1 RESULTS

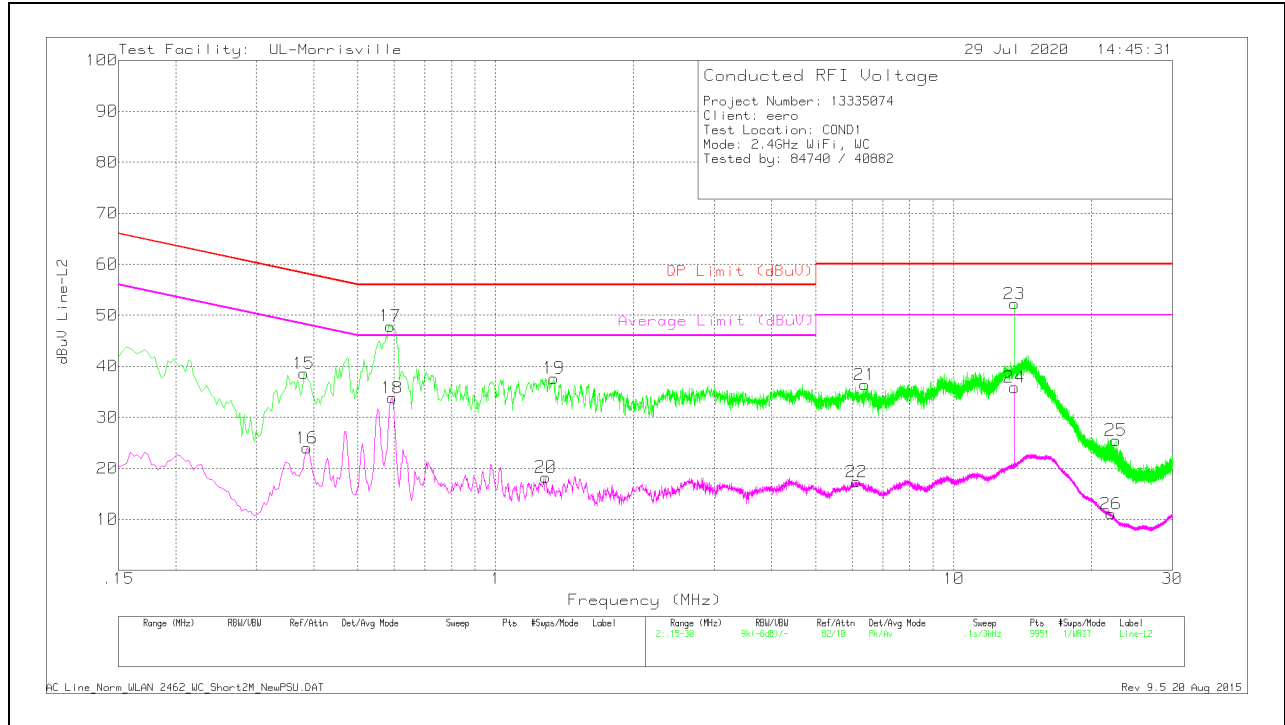


| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN VCF (dB) | Cbl/Limiter (dB) | Corrected Reading dBuV | QP Limit (dBuV) | Margin (dB) | Average Limit (dBuV) | Margin (dB) |
|--------|-----------------|----------------------|-----|---------------|------------------|------------------------|-----------------|-------------|----------------------|-------------|
| 1      | .384            | 35.89                | Pk  | .1            | 9.7              | 45.69                  | 58.19           | -12.5       | -                    | -           |
| 2      | .387            | 22.15                | Av  | .1            | 9.8              | 32.05                  | -               | -           | 48.13                | -16.08      |
| 3      | .5854           | 43.86                | Qp  | .1            | 9.8              | 53.76                  | 56              | -2.24       | -                    | -           |
| 4      | .58495          | 30.03                | Ca  | .1            | 9.8              | 39.93                  | -               | -           | 46                   | -6.07       |
| 5      | .726            | 36.37                | Pk  | 0             | 9.8              | 46.17                  | 56              | -9.83       | -                    | -           |
| 6      | .711            | 20.18                | Av  | 0             | 9.8              | 29.98                  | -               | -           | 46                   | -16.02      |
| 7      | 1.191           | 35.5                 | Pk  | 0             | 9.8              | 45.3                   | 56              | -10.7       | -                    | -           |
| 8      | 1.287           | 17.31                | Av  | 0             | 9.8              | 27.11                  | -               | -           | 46                   | -18.89      |
| 9      | 4.626           | 34.97                | Pk  | .1            | 9.9              | 44.97                  | 56              | -11.03      | -                    | -           |
| 10     | 4.668           | 16.47                | Av  | .1            | 9.9              | 26.47                  | -               | -           | 46                   | -19.53      |
| 11     | 13.5608         | 37.39                | Qp  | .1            | 10               | 47.49                  | 60              | -12.51      | -                    | -           |
| 12     | 13.56           | 27.14                | Av  | .1            | 10               | 37.24                  | -               | -           | 50                   | -12.76      |
| 13     | 22.458          | 15.15                | Pk  | .2            | 10.1             | 25.45                  | 60              | -34.55      | -                    | -           |
| 14     | 22.365          | -39                  | Av  | .2            | 10.1             | 9.91                   | -               | -           | 50                   | -40.09      |

Pk - Peak detector  
 Av - Average detection  
 Qp - Quasi-Peak detector  
 Ca - CISPR average detection

Note: Markers 11 and 12, 13.56MHz is an external NFC signal unrelated to the EUT.

### LINE 2 RESULTS



| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN VCF (dB) | Cbl/Limiter (dB) | Corrected Reading dBuV | QP Limit (dBuV) | Margin (dB) | Average Limit (dBuV) | Margin (dB) |
|--------|-----------------|----------------------|-----|---------------|------------------|------------------------|-----------------|-------------|----------------------|-------------|
| 15     | .381            | 28.72                | Pk  | .1            | 9.8              | 38.62                  | 58.26           | -19.64      | -                    | -           |
| 16     | .387            | 14.11                | Av  | .1            | 9.8              | 24.01                  | -               | -           | 48.13                | -24.12      |
| 17     | .588            | 38.1                 | Pk  | 0             | 9.8              | 47.9                   | 56              | -8.1        | -                    | -           |
| 18     | .594            | 23.99                | Av  | 0             | 9.8              | 33.79                  | -               | -           | 46                   | -12.21      |
| 19     | 1.338           | 27.88                | Pk  | 0             | 9.8              | 37.68                  | 56              | -18.32      | -                    | -           |
| 20     | 1.284           | 8.45                 | Av  | 0             | 9.8              | 18.25                  | -               | -           | 46                   | -27.75      |
| 21     | 6.384           | 26.4                 | Pk  | .1            | 9.9              | 36.4                   | 60              | -23.6       | -                    | -           |
| 22     | 6.126           | 7.38                 | Av  | .1            | 9.9              | 17.38                  | -               | -           | 50                   | -32.62      |
| 23     | 13.56           | 42.13                | Pk  | .1            | 10               | 52.23                  | 60              | -7.77       | -                    | -           |
| 24     | 13.56           | 25.76                | Av  | .1            | 10               | 35.86                  | -               | -           | 50                   | -14.14      |
| 25     | 22.566          | 15.2                 | Pk  | .2            | 10.1             | 25.5                   | 60              | -34.5       | -                    | -           |
| 26     | 22.041          | .75                  | Av  | .2            | 10.1             | 11.05                  | -               | -           | 50                   | -38.95      |

Pk - Peak detector  
 Av - Average detection

Note: Markers 23 and 24, 13.56MHz is an external NFC signal unrelated to the EUT.

## 12. SETUP PHOTOS

Please refer to R13335074-EP1 for setup photos.

**END OF TEST REPORT**