



# TEST REPORT

**Report Number:** R13658158-E1

**Applicant :** Ademco Inc.  
2 Corporate Center Dr.  
Melville, NY, 11747, USA

**Model :** SIXCTA  
HVIN: RF6CT

**FCC ID :** CFS8DLRF6C

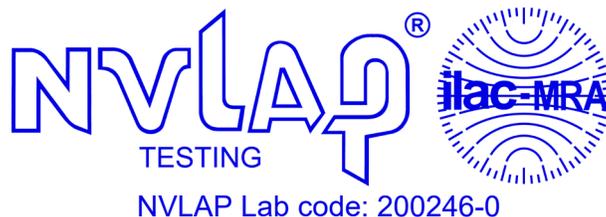
**IC :** 573F-RF6CT

**EUT Description :** Temperature Sensor

**Test Standard(s) :** FCC 47 CFR PART 15 SUBPART C: 2020  
ISED RSS-247 ISSUE 2: 2017  
ISED RSS-GEN ISSUE 5 + Amendment 1: 2019

**Date Of Issue:**  
2022-04-05

**Prepared by:**  
UL LLC  
12 Laboratory Dr.  
Research Triangle Park, NC 27709 U.S.A.  
TEL: (919) 549-1400



## REPORT REVISION HISTORY

| Rev. | Issue Date | Revisions  | Revised By      |
|------|------------|--|-----------------|
| V1   | 2021-01-28 | Initial Issue  | Cristian Melara |
| V2   | 2022-03-28 | Addressed TCB Feedback:<br>-Updated Test dates<br>-Updated Antenna Gains<br>-Clarified WC Orientation Setup<br>-Added Max Power section.<br>-Added Duty Cycle Clarification<br>-Corrected Radiated Data. | Noah Bennett    |
| V3   | 2022-04-05 | -Updated ANT2 Cond. Power data   | Noah Bennett    |

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# 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** Ademco Inc.  
2 Corporate Center Dr.  
Melville, NY, 11747, USA

**EUT DESCRIPTION:** Temperature sensor

**MODEL:** SIXCTA  
HVIN: RF6CT

**SERIAL NUMBER:** 08439027

**SAMPLE RECEIPT DATE:** 2020-01-04

**DATE TESTED:** 2021-01-07 to 2021-01-11; 2022-04-05

| APPLICABLE STANDARDS                     |              |
|--|--------------|
| STANDARD                                 | TEST RESULTS |
| CFR 47 Part 15 Subpart C: 2020           | Complies     |
| ISED RSS-247 Issue 2: 2017               | Complies     |
| ISED RSS-GEN Issue 5 + Amendment 1: 2019 | 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 LLC. By:



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Brian Kiewra  
Project Engineer  
Consumer Technology Division  
UL LLC

Prepared By:



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Cristian Melara  
Engineer  
Consumer Technology Division  
UL LLC

## 2. TEST RESULTS SUMMARY

| FCC Clause                 | ISED Clause                    | Requirement         | Result                  | Comment                        |
|----------------------------|--------------------------------|---------------------|-------------------------|--------------------------------|
| See Comment                |                                | Duty Cycle          | Reporting purposes only | Per ANSI C63.10, Section 12.2. |
| See Comment<br>15.407 (e)  | RSS-GEN 6.7                    | 26dB BW/99% OBW     | See comment             | See Note 1.                    |
| 15.407 (a) (1-4), (h) (1)  | RSS-247 6.2.4.1                | 6 dB BW             |                         |                                |
| 15.407 (a) (1-3, 5)        | RSS-247 6.2                    | Output Power<br>PSD |                         |                                |
| 15.209, 15.205, 15.407 (b) | RSS-GEN 8.9, 8.10, RSS-247 6.2 | Radiated Emissions  | Compliant               | None                           |

Note 1: This report contains data provided by the applicant which can impact the validity of results. UL LLC is only responsible for the validity of results after the integration of the data provided by the customer. This report covers radiated emissions for a C2PC due to a non-radio circuitry change. The remaining test results can be found in the original filing report which is the responsibility of the manufacturer to provide upon request.

### 3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15: 2020, ANSI C63.10-2013, KDB 558074 D01 15.247 Meas Guidance v05r02, KDB 414788 D01 Radiated Test Site v01r01, RSS-GEN Issue 5+ Amendment 1: 2019, and RSS-247 Issue 2: 2017.

### 4. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 12 Laboratory Drive, Research Triangle Park, North Carolina, USA and 2800 Perimeter Park Dr., Suite B, Morrisville, North Carolina, 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 Suite Perimeter Park Dr.                     |
|--|---|
| <b>ISED Site Code: 2180C</b>           |   |
| <input type="checkbox"/> Chamber A RTP | <input type="checkbox"/> North Chamber            |
| <input type="checkbox"/> Chamber C RTP | <input checked="" 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) (CABID US00067) 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                | 1.22%                       |
| RF output power, conducted                | 1.3 dB (PK)<br>0.45 dB (AV) |
| RF output power, radiated (SAC) < 180 MHz | 6.18 dB                     |
| RF output power, radiated (SAC) >=180 MHz | 3.23 dB                     |
| Power Spectral Density, conducted         | 2.47 dB                     |
| Unwanted Emissions, conducted             | 1.94 dB                     |
| All emissions, radiated                   | 6.01 dB                     |
| Conducted Emissions (0.150-30MHz) - LISN  | 3.40 dB                     |
| Temperature                               | 0.57°C                      |
| Humidity                                  | 3.39%                       |
| DC Supply voltages                        | 1.70%                       |
| Time                                      | 3.39%                       |

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

## 5.4. SAMPLE CALCULATION

### **RADIATED EMISSIONS**

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable

Loss (dB) – Preamp Gain (dB)

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

### **MAINS CONDUCTED EMISSIONS**

Where relevant, the following sample calculation is provided:

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

LISN Insertion Loss.

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

## 6. EQUIPMENT UNDER TEST

### 6.1. EUT DESCRIPTION

The EUT is a battery powered RF6 temperature sensor that contains a 2.4GHz IEEE 802.15.4 radio.

### 6.2. MAXIMUM OUTPUT POWER

Spot check power measurements were completed and the EUT has a maximum output power as below:

| Antenna | Zigbee Channel | Avg Power | Peak Power |
|---------|----------------|-----------|------------|
| 1       | 2405           | 19.39     | 19.50      |
|         | 2445           | 17.73     | 17.87      |
|         | 2475           | 16.5      | 16.65      |
| 2       | 2405           | 18.47     | 18.60      |
|         | 2445           | 17.19     | 17.33      |
|         | 2475           | 15.64     | 15.83      |

### 6.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes two PIFA antennas for diversity, with Antenna 1 gain of 2.6dBi and Antenna 2 gain to 4.8dBi.

### 6.4. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was V5.1.3.

The test utility software version used during testing was v0.2.0.

### 6.5. WORST-CASE CONFIGURATION AND MODE

Radiated emissions below 1GHz and above 18GHz were performed with the EUT set to transmit at the channel and antenna with highest output power as worst-case scenario, which has been determined based up the original filing module report.

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 fundamental of the EUT was investigated in three orthogonal orientations X,Y,Z, it was determined that X orientation was worst-case orientation for both Antenna 1 and Antenna 2; therefore, all final radiated testing was performed with the EUT in X orientation.

## 7. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

| Support Equipment List |                    |       |               |        |
|------------------------|--------------------|-------|---------------|--------|
| Description            | Manufacturer/Brand | Model | Serial Number | FCC ID |
| None                   |                    |       |               |        |

### I/O CABLES

| I/O Cable List |      |                      |                |            |                  |         |
|----------------|------|----------------------|----------------|------------|------------------|---------|
| Cable No       | Port | # of identical ports | Connector Type | Cable Type | Cable Length (m) | Remarks |
| None           |      |                      |                |            |                  |         |

### SETUP DIAGRAMS

Please refer to R13658158-EP1 for setup diagrams

## 8. MEASUREMENT METHOD

Duty Cycle: ANSI C63.10 Subclause -11.6

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

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

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

KDB 558074 D01 15.247 Meas Guidance v05r02 FAQ #3

## 9. TEST AND MEASUREMENT EQUIPMENT

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

### Test Equipment Used - Wireless Conducted Measurement Equipment

| Equip. ID            | Description             | Manufacturer         | Model Number      | Last Cal.  | Next Cal.  |
|----------------------|-------------------------|----------------------|-------------------|------------|------------|
|                      | <b>Conducted Room 2</b> |                      |                   |            |            |
| T177<br>(PRE0079253) | Spectrum Analyzer       | Agilent Technologies | E4446A            | 2020-04-30 | 2021-04-30 |
| SOFTEMI              | Antenna Port Software   | UL                   | Version 2020.12.3 | NA         | NA         |

### 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                     | 2020-08-20 | 2021-08-20 |
|           | <b>30-1000 MHz</b>                                |                      |                          |            |            |
| AT0081    | Hybrid Broadband Antenna                          | Sunol Sciences Corp. | JB3                      | 2019-11-20 | 2020-11-20 |
|           | <b>1-18 GHz</b>                                   |                      |                          |            |            |
| AT0067    | Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz | ETS Lindgren         | 3117                     | 2020-04-28 | 2021-04-28 |
|           | <b>Gain-Loss Chains</b>                           |                      |                          |            |            |
| S-SAC01   | Gain-loss string:<br>0.009-30MHz                  | Various              | Various                  | 2020-07-10 | 2021-07-10 |
| S-SAC02   | Gain-loss string:<br>25-1000MHz                   | Various              | Various                  | 2020-07-10 | 2021-07-10 |
| S-SAC03   | Gain-loss string:<br>1-18GHz                      | Various              | Various                  | 2020-07-06 | 2021-07-06 |
| S-SAC04   | Gain-loss string:<br>18-40GHz                     | Various              | Various                  | 2020-07-07 | 2021-07-07 |
|           | <b>Receiver &amp; Software</b>                    |                      |                          |            |            |
| SA0025    | Spectrum Analyzer                                 | Agilent              | N9030A                   | 2020-03-17 | 2021-03-17 |
| SOFTEMI   | EMI Software                                      | UL                   | Version 9.5 (2020-08-18) |            |            |

## 10. ANTENNA PORT TEST RESULTS

### 10.1. ON TIME AND DUTY CYCLE

#### LIMITS

None; for reporting purposes only.

#### PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method.

#### 10.1.1. Antenna 1

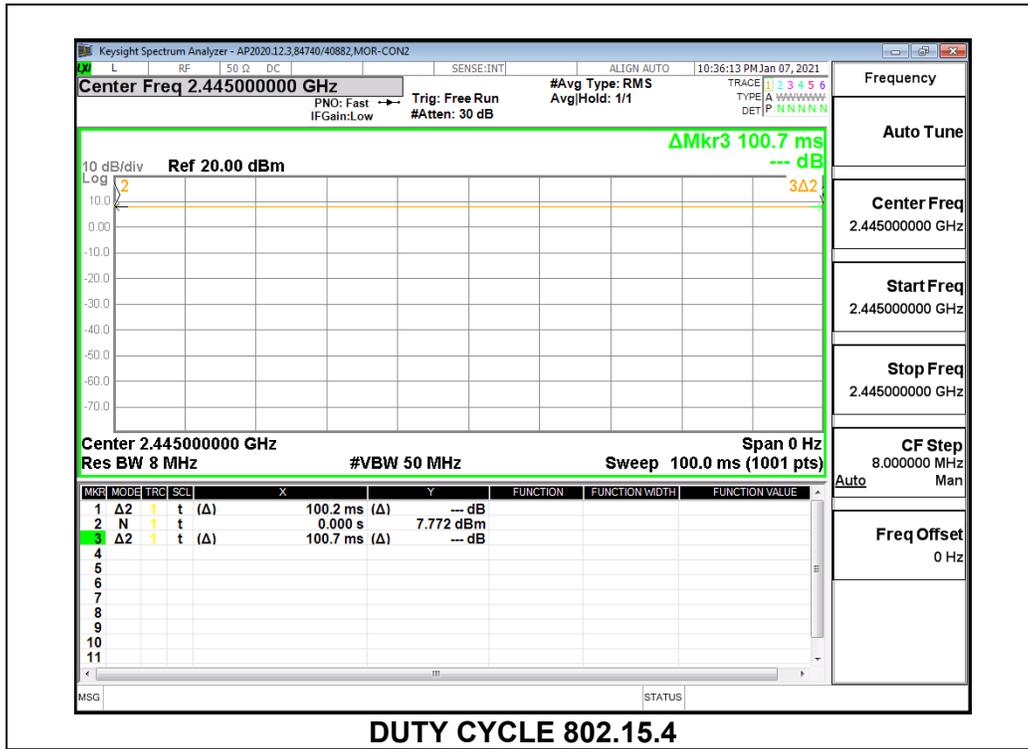
#### ON TIME AND DUTY CYCLE RESULTS

| Mode               | ON Time<br>B<br>(msec) | Period<br>(msec) | Duty Cycle<br>x<br>(linear) | Duty<br>Cycle<br>(%) | Duty Cycle<br>Correction Factor<br>(dB) | 1/B<br>Minimum VBW<br>(kHz) |
|--------------------|------------------------|------------------|-----------------------------|----------------------|---|-----------------------------|
| <b>2.4GHz Band</b> |                        |                  |                             |                      |   |                             |
| 802.15.4           | 100.2                  | 100.7            | 0.995                       | 99.50%               | 0.00                                    | 0.010                       |

\*Note: Duty Cycle of 99.50% was obtained via a Factory Test Mode installed on the device for testing purposes only. The Real-Life Duty Cycle will be protocol limited to 6.976% from the original filing per KDB 558074 D01 15.247 Meas Guidance v05r02 Q&A#3. Option A was used. to derive the duty cycle correction factor used in this report. A duty cycle correction factor of -23.1dB was applied to radiated PK data to obtain an average measurement. See calculation below.

Duty Cycle Correction Factor =  $20 \cdot \log(\text{DC}) = 20 \cdot \log(0.06976) = -23.1\text{dB}$

DUTY CYCLE PLOTS



### 10.1.2. Antenna 2

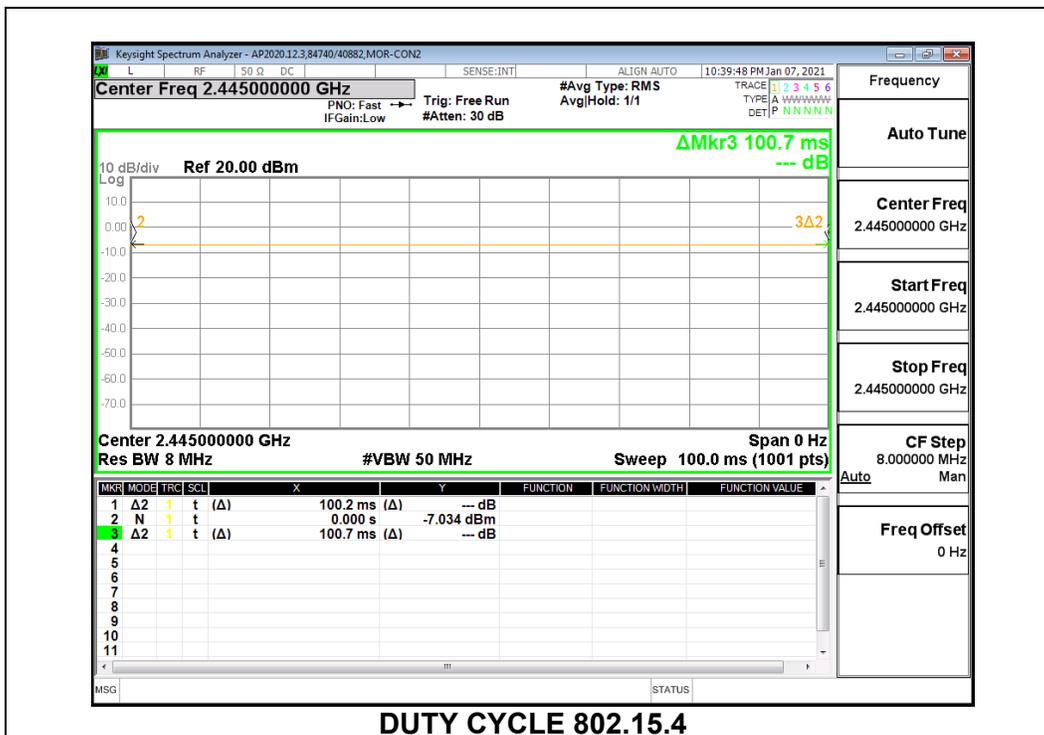
#### ON TIME AND DUTY CYCLE RESULTS

| Mode               | ON Time B (msec) | Period (msec) | Duty Cycle x (linear) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | 1/B Minimum VBW (kHz) |
|--------------------|------------------|---------------|-----------------------|----------------|-----------------------------------|-----------------------|
| <b>2.4GHz Band</b> |                  |               |                       |                |                                   |                       |
| 802.15.4           | 100.2            | 100.7         | 0.995                 | 99.50%         | 0.00                              | 0.010                 |

\*Note: Duty Cycle of 99.50% was obtained via a Factory Test Mode installed on the device for testing purposes only. The Real-Life Duty Cycle will be protocol limited to 6.976% from the original filing per KDB 558074 D01 15.247 Meas Guidance v05r02 Q&A#3. Option A was used. to derive the duty cycle correction factor used in this report. A duty cycle correction factor of -23.1dB was applied to radiated PK data to obtain an average measurement. See calculation below.

Duty Cycle Correction Factor =  $20 \cdot \log(\text{DC}) = 20 \cdot \log(0.06976) = -23.1\text{dB}$

#### DUTY CYCLE PLOTS



## 11. RADIATED TEST RESULTS

### 11.1. LIMITS AND PROCEDURE

#### 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 in the 30-1000MHz range, 9kHz for peak and/or quasi-peak detection measurements in the 0.15-30MHz range and 200Hz for peak and/or quasi-peak detection measurements in the 9 to 150kHz range. Peak detection is used unless otherwise noted as quasi-peak or average (9-90kHz and 110-490kHz).

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 linear voltage 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).

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.

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

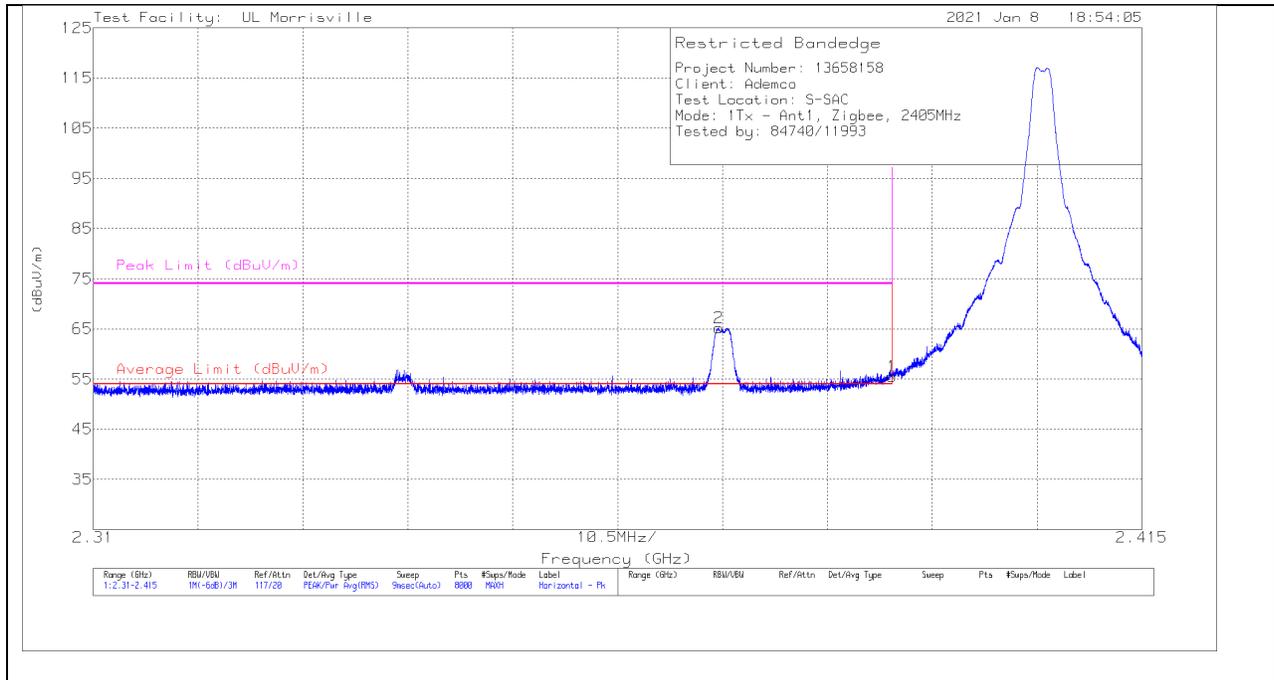
OFS and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

## 11.2. TRANSMITTER ABOVE 1 GHz

### 11.2.1. Antenna 1

#### BANDEDGE (LOW CHANNEL)

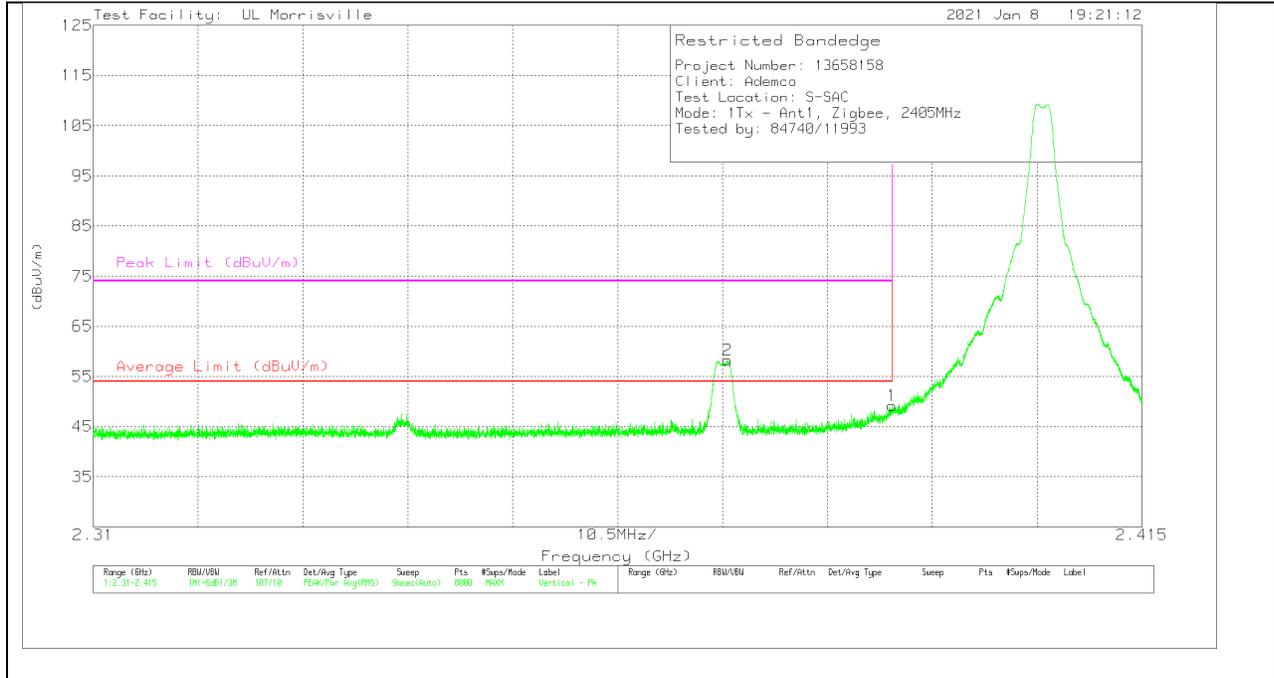
#### HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Fitr/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       | 47.42                | Pk  | 32.1          | -24                   | 0            | 55.52                      | -                      | -           | 74                  | -18.48         | 5              | 113         | H        |
|        | * ** 2.39       | 47.42                | Pk  | 32.1          | -24                   | -23.1        | 32.42                      | 54                     | -21.58      | -                   | -              | 5              | 113         | H        |
| 2      | * ** 2.37264    | 56.88                | Pk  | 32.2          | -23.9                 | 0            | 65.18                      | -                      | -           | 74                  | -8.82          | 5              | 113         | H        |
|        | * ** 2.37264    | 56.88                | Pk  | 32.2          | -23.9                 | -23.1        | 42.08                      | 54                     | -11.92      | -                   | -              | 5              | 113         | H        |

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

### VERTICAL RESULT

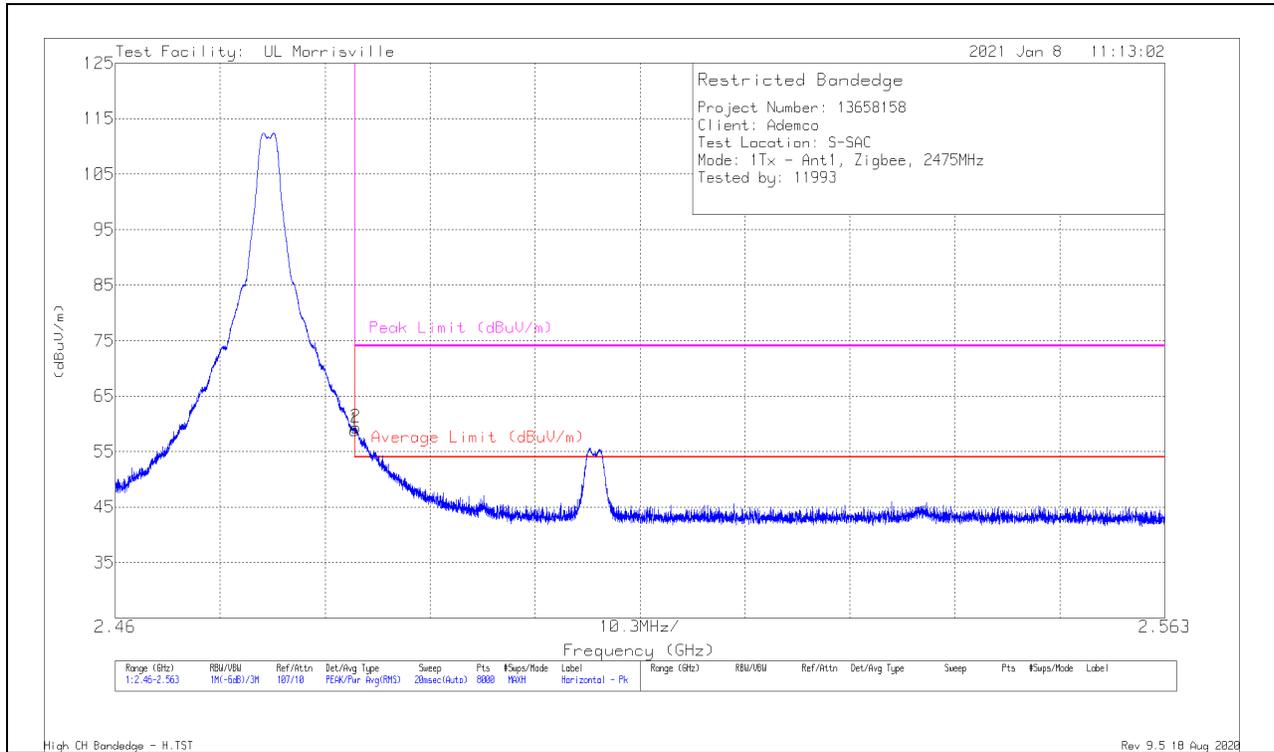


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | *** 2.39        | 41.02                | Pk  | 32.1          | -24                    | 0            | 49.12                      | -                      | -           | 74                  | -24.88         | 335            | 350         | V        |
|        | *** 2.39        | 41.02                | Pk  | 32.1          | -24                    | -23.1        | 26.02                      | 54                     | -27.98      | -                   | -              | 335            | 350         | V        |
| 2      | *** 2.3735      | 49.96                | Pk  | 32.2          | -23.9                  | 0            | 58.26                      | -                      | -           | 74                  | -15.74         | 335            | 350         | V        |
|        | *** 2.3735      | 49.96                | Pk  | 32.2          | -23.9                  | -23.1        | 35.16                      | 54                     | -18.84      | -                   | -              | 335            | 350         | V        |

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

**BANDEDGE (HIGH CHANNEL)**

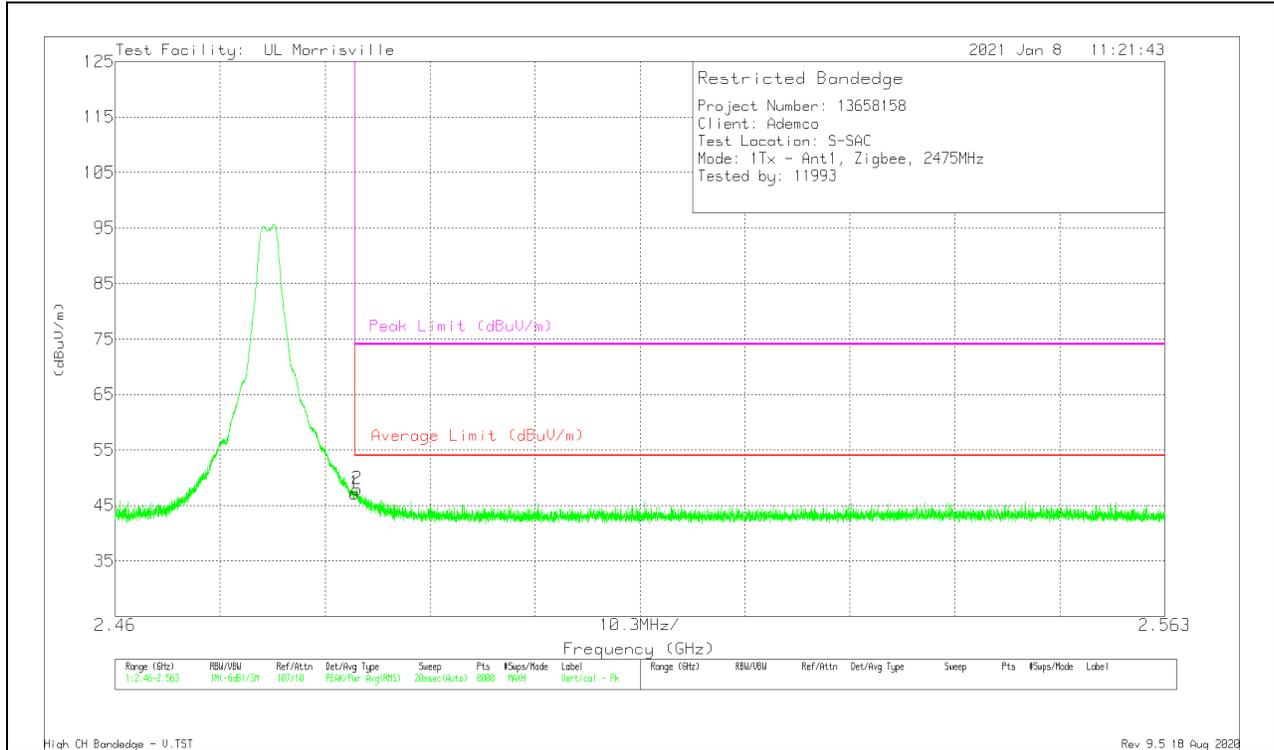
**HORIZONTAL RESULT**



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (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     | 50.9                 | Pk  | 32.4          | -24.4                  | 0            | 58.9                       | -                      | -           | 74                  | -15.1          | 349            | 149         | H        |
|        | * ** 2.4835     | 50.9                 | Pk  | 32.4          | -24.4                  | -23.1        | 35.8                       | 54                     | -18.2       | -                   | -              | 349            | 149         | H        |
| 2      | * ** 2.4836     | 51.38                | Pk  | 32.4          | -24.4                  | 0            | 59.38                      | -                      | -           | 74                  | -14.62         | 349            | 149         | H        |
|        | * ** 2.4836     | 51.38                | Pk  | 32.4          | -24.4                  | -23.1        | 36.28                      | 54                     | -17.72      | -                   | -              | 349            | 149         | H        |

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

### VERTICAL RESULT

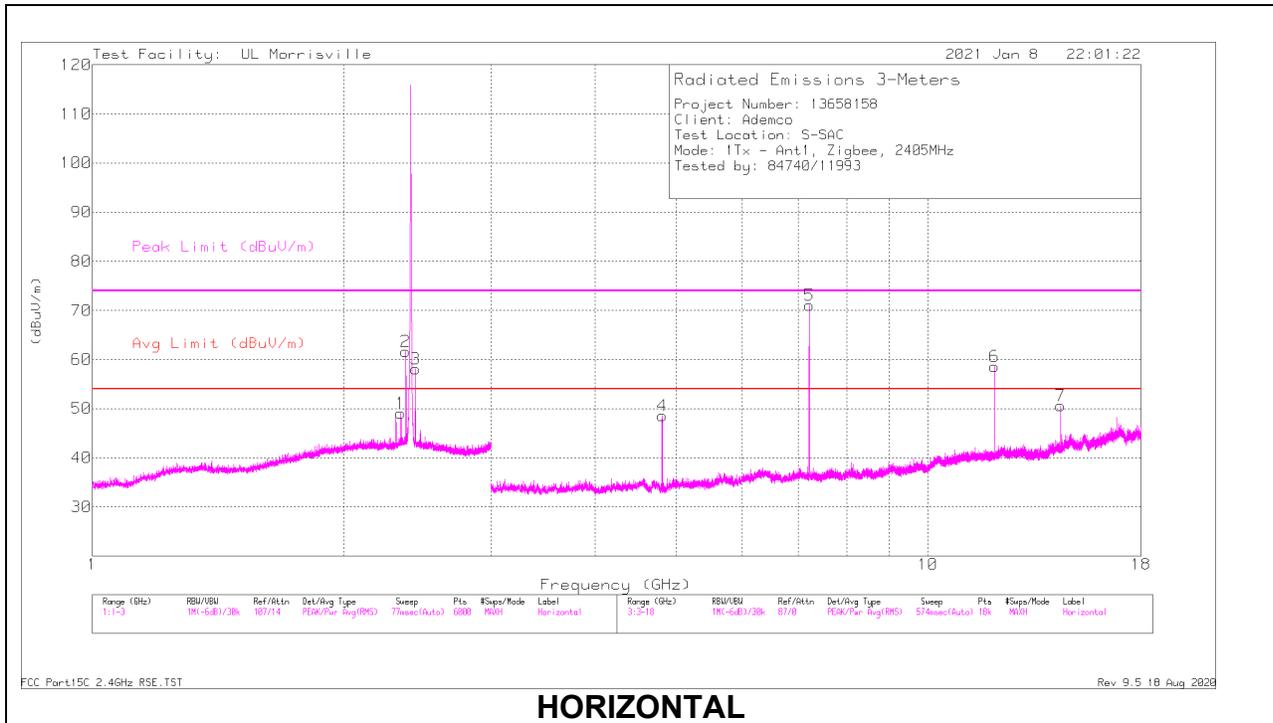


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * ** 2.4835     | 39.23                | Pk  | 32.4          | -24.4                  | 0            | 47.23                      | -                      | -           | 74                  | -26.77         | 22             | 362         | V        |
|        | * ** 2.4835     | 39.23                | Pk  | 32.4          | -24.4                  | -23.1        | 24.13                      | 54                     | -29.87      | -                   | -              | 22             | 362         | V        |
| 2      | * ** 2.48372    | 39.95                | Pk  | 32.4          | -24.4                  | 0            | 47.95                      | -                      | -           | 74                  | -26.05         | 22             | 362         | V        |
|        | * ** 2.48372    | 39.95                | Pk  | 32.4          | -24.4                  | -23.1        | 24.85                      | 54                     | -29.15      | -                   | -              | 22             | 362         | V        |

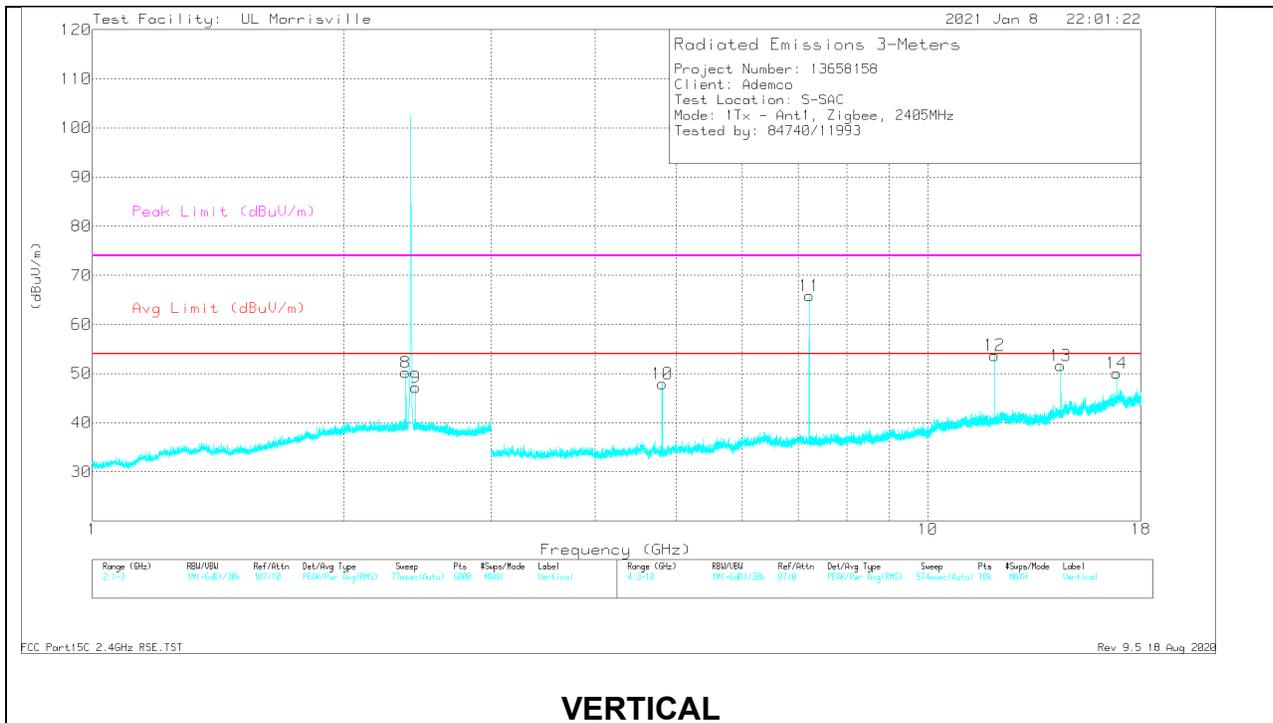
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector

# HARMONICS AND SPURIOUS EMISSIONS

## LOW CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (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      | ** 2.34159      | 45.68                | PK2 | 32.2          | -23.8                  | 0            | 54.08                      | -                  | -           | 74                  | -19.92         | 13             | 216         | H        |
|        | ** 2.34159      | 45.68                | PK2 | 32.2          | -23.8                  | -23.1        | 30.98                      | 54                 | -23.02      | -                   | -              | 13             | 216         | H        |
| 2      | ** 2.37351      | 56.64                | PK2 | 32.2          | -23.9                  | 0            | 64.94                      | -                  | -           | 74                  | -9.06          | 7              | 142         | H        |
|        | ** 2.37351      | 56.64                | PK2 | 32.2          | -23.9                  | -23.1        | 41.84                      | 54                 | -12.16      | -                   | -              | 7              | 142         | H        |
| 8      | ** 2.37258      | 50.75                | PK2 | 32.2          | -23.9                  | 0            | 59.05                      | -                  | -           | 74                  | -14.95         | 312            | 350         | V        |
|        | ** 2.37258      | 50.75                | PK2 | 32.2          | -23.9                  | -23.1        | 35.95                      | 54                 | -18.05      | -                   | -              | 312            | 350         | V        |
| 4      | ** 4.81089      | 48.58                | PK2 | 34            | -30.8                  | 0            | 51.78                      | -                  | -           | 74                  | -22.22         | 57             | 111         | H        |
|        | ** 4.81089      | 48.58                | PK2 | 34            | -30.8                  | -23.1        | 28.68                      | 54                 | -25.32      | -                   | -              | 57             | 111         | H        |
| 6      | ** 12.02752     | 47.76                | PK2 | 38.7          | -24                    | 0            | 62.46                      | -                  | -           | 74                  | -11.54         | 106            | 101         | H        |
|        | ** 12.02752     | 47.76                | PK2 | 38.7          | -24                    | -23.1        | 39.36                      | 54                 | -14.64      | -                   | -              | 106            | 101         | H        |
| 10     | ** 4.81096      | 49.04                | PK2 | 34            | -30.8                  | 0            | 52.24                      | -                  | -           | 74                  | -21.76         | 318            | 115         | V        |
|        | ** 4.81096      | 49.04                | PK2 | 34            | -30.8                  | -23.1        | 29.14                      | 54                 | -24.86      | -                   | -              | 318            | 115         | V        |
| 12     | ** 12.02754     | 44.44                | PK2 | 38.7          | -24                    | 0            | 59.14                      | -                  | -           | 74                  | -14.86         | 143            | 108         | V        |
|        | ** 12.02754     | 44.44                | PK2 | 38.7          | -24                    | -23.1        | 36.04                      | 54                 | -17.96      | -                   | -              | 143            | 108         | V        |
| 9      | 2.43691         | 38.95                | Pk  | 32.4          | -24.2                  | 0            | 47.15                      | -                  | -           | -                   | -              | 0-360          | 101         | V        |
| 3      | 2.43724         | 49.87                | Pk  | 32.4          | -24.2                  | 0            | 58.07                      | -                  | -           | -                   | -              | 0-360          | 101         | H        |
| 5      | 7.21607         | 63.32                | Pk  | 35.6          | -27.9                  | 0            | 71.02                      | -                  | -           | -                   | -              | 0-360          | 101         | H        |
| 11     | 7.21607         | 58.12                | Pk  | 35.6          | -27.9                  | 0            | 65.82                      | -                  | -           | -                   | -              | 0-360          | 101         | V        |
| 13     | 14.42731        | 37.06                | Pk  | 39.4          | -24.9                  | 0            | 51.56                      | -                  | -           | -                   | -              | 0-360          | 101         | V        |
| 7      | 14.43314        | 36.05                | Pk  | 39.4          | -24.9                  | 0            | 50.55                      | -                  | -           | -                   | -              | 0-360          | 101         | H        |
| 14     | 16.83911        | 31.62                | Pk  | 41.9          | -23.4                  | 0            | 50.12                      | -                  | -           | -                   | -              | 0-360          | 101         | V        |

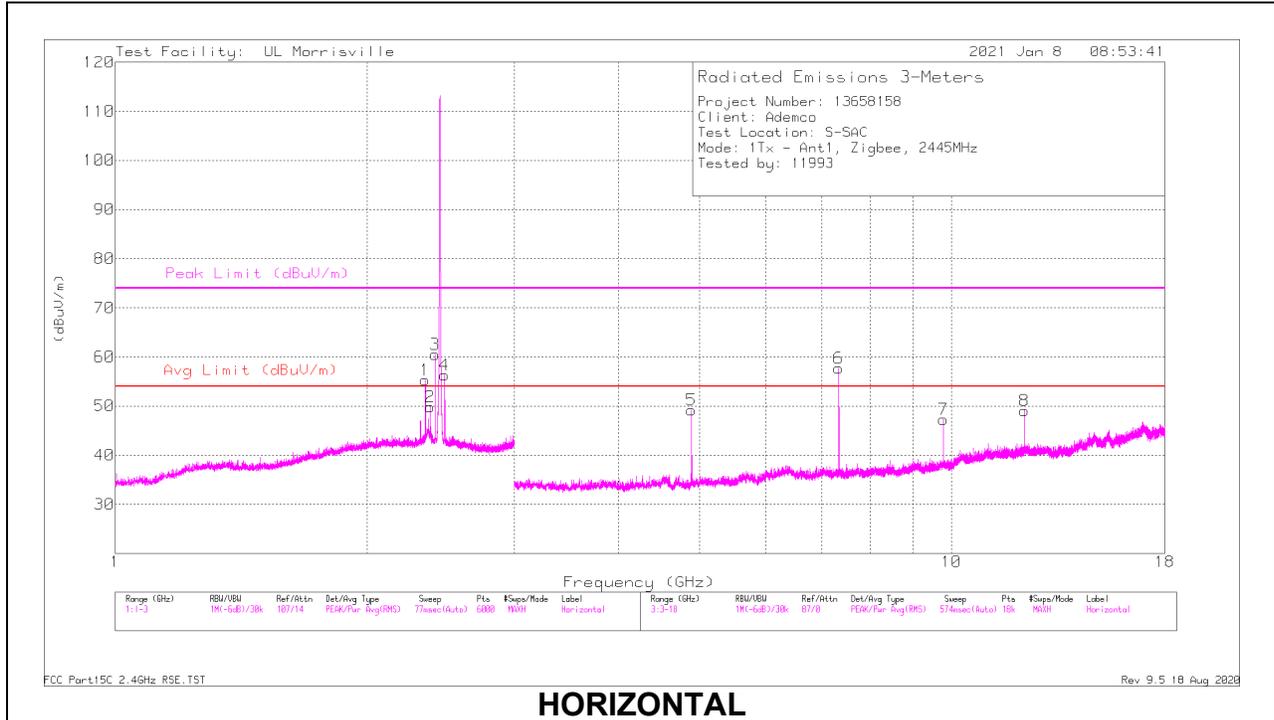
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - Maximum Peak

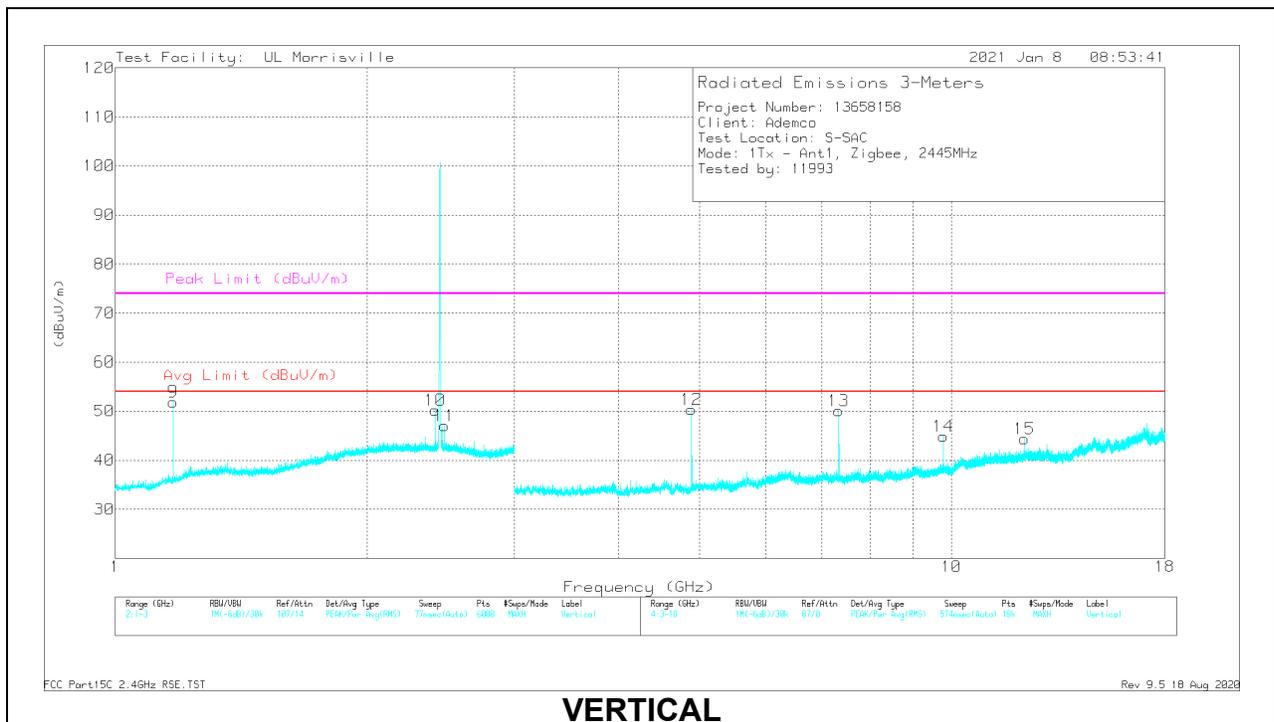
Pk - Peak detector



### MID CHANNEL RESULTS



### HORIZONTAL

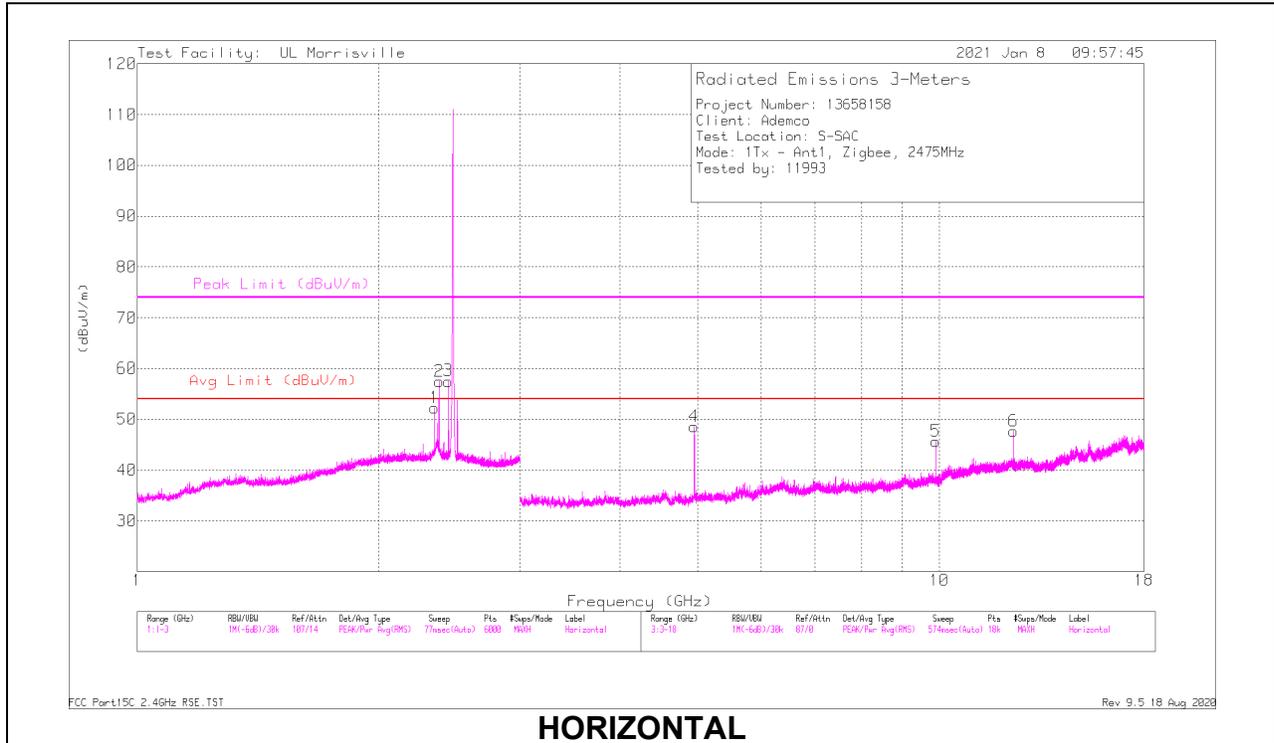


### VERTICAL

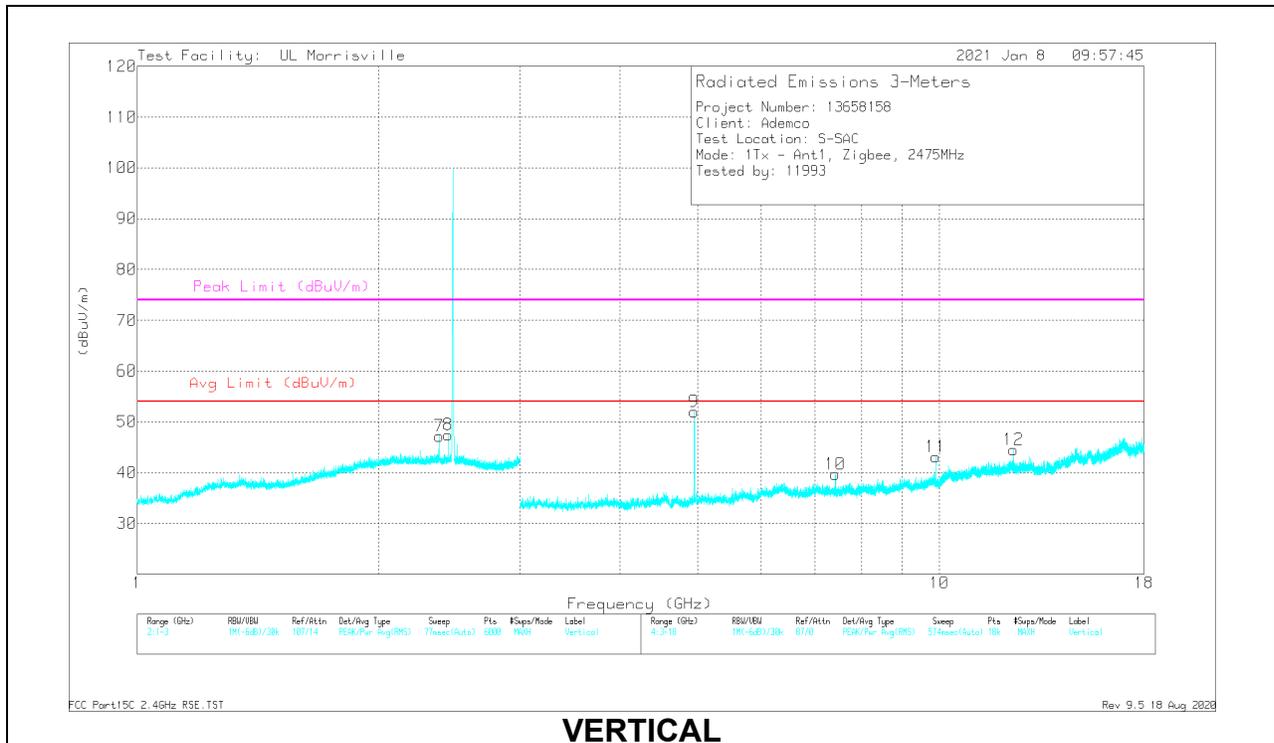
**RADIATED EMISSIONS**

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (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      | *** 2.34945     | 51.16                | PK2 | 32.2          | -23.9                  | 0            | 59.46                      | -                  | -           | 74                  | -14.54         | 359            | 165         | H        |
|        | *** 2.34945     | 51.16                | PK2 | 32.2          | -23.9                  | -23.1        | 36.36                      | 54                 | -17.64      | -                   | -              | 359            | 165         | H        |
| 2      | *** 2.38099     | 46.85                | PK2 | 32.2          | -23.9                  | 0            | 55.15                      | -                  | -           | 74                  | -18.85         | 6              | 114         | H        |
|        | *** 2.38099     | 46.85                | PK2 | 32.2          | -23.9                  | -23.1        | 32.05                      | 54                 | -21.95      | -                   | -              | 6              | 114         | H        |
| 9      | *** 1.1759      | 38.42                | PK2 | 28.4          | -23.8                  | 0            | 43.02                      | -                  | -           | 74                  | -30.98         | 6              | 251         | V        |
|        | *** 1.1759      | 38.42                | PK2 | 28.4          | -23.8                  | -23.1        | 19.92                      | 54                 | -34.08      | -                   | -              | 6              | 251         | V        |
| 5      | *** 4.8891      | 50.27                | PK2 | 34            | -30.9                  | 0            | 53.37                      | -                  | -           | 74                  | -20.63         | 53             | 101         | H        |
|        | *** 4.8891      | 50.27                | PK2 | 34            | -30.9                  | -23.1        | 30.27                      | 54                 | -23.73      | -                   | -              | 53             | 101         | H        |
| 6      | *** 7.33359     | 53.22                | PK2 | 35.6          | -27.3                  | 0            | 61.52                      | -                  | -           | 74                  | -12.48         | 1              | 116         | H        |
|        | *** 7.33359     | 53.22                | PK2 | 35.6          | -27.3                  | -23.1        | 38.42                      | 54                 | -15.58      | -                   | -              | 1              | 116         | H        |
| 8      | *** 12.22733    | 39.67                | PK2 | 38.8          | -24.3                  | 0            | 54.17                      | -                  | -           | 74                  | -19.83         | 111            | 101         | H        |
|        | *** 12.22733    | 39.67                | PK2 | 38.8          | -24.3                  | -23.1        | 31.07                      | 54                 | -22.93      | -                   | -              | 111            | 101         | H        |
| 12     | *** 4.89122     | 51.03                | PK2 | 34            | -30.9                  | 0            | 54.13                      | -                  | -           | 74                  | -19.87         | 306            | 111         | V        |
|        | *** 4.89122     | 51.03                | PK2 | 34            | -30.9                  | -23.1        | 31.03                      | 54                 | -22.97      | -                   | -              | 306            | 111         | V        |
| 13     | *** 7.33348     | 46.71                | PK2 | 35.6          | -27.3                  | 0            | 55.01                      | -                  | -           | 74                  | -18.99         | 300            | 101         | V        |
|        | *** 7.33348     | 46.71                | PK2 | 35.6          | -27.3                  | -23.1        | 31.91                      | 54                 | -22.09      | -                   | -              | 300            | 101         | V        |
| 15     | *** 12.22733    | 37.42                | PK2 | 38.8          | -24.3                  | 0            | 51.92                      | -                  | -           | 74                  | -22.08         | 138            | 115         | V        |
|        | *** 12.22733    | 37.42                | PK2 | 38.8          | -24.3                  | -23.1        | 28.82                      | 54                 | -25.18      | -                   | -              | 138            | 115         | V        |
| 3      | 2.4129          | 52.43                | Pk  | 32.2          | -24.1                  | 0            | 60.53                      | -                  | -           | -                   | -              | 0-360          | 101         | H        |
| 10     | 2.4129          | 42.09                | Pk  | 32.2          | -24.1                  | 0            | 50.19                      | -                  | -           | -                   | -              | 0-360          | 101         | V        |
| 4      | 2.47691         | 48.47                | Pk  | 32.4          | -24.5                  | 0            | 56.37                      | -                  | -           | -                   | -              | 0-360          | 200         | H        |
| 11     | 2.47725         | 39.16                | Pk  | 32.4          | -24.5                  | 0            | 47.06                      | -                  | -           | -                   | -              | 0-360          | 101         | V        |
| 7      | 9.77788         | 36.44                | Pk  | 36.8          | -25.9                  | 0            | 47.34                      | -                  | -           | -                   | -              | 0-360          | 101         | H        |
| 14     | 9.78205         | 33.95                | Pk  | 36.8          | -25.9                  | 0            | 44.85                      | -                  | -           | -                   | -              | 0-360          | 101         | V        |

### HIGH CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (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      | *** 2.34761     | 48.94                | PK2 | 32.2          | -23.9                  | 0            | 57.24                      | -                  | -           | 74                  | -16.76         | 0              | 165         | H        |
|        | ** 2.34761      | 48.94                | PK2 | 32.2          | -23.9                  | -23.1        | 34.14                      | 54                 | -19.86      | -                   | -              | 0              | 165         | H        |
| 2      | *** 2.37863     | 52.85                | PK2 | 32.2          | -23.9                  | 0            | 61.15                      | -                  | -           | 74                  | -12.85         | 358            | 161         | H        |
|        | ** 2.37863      | 52.85                | PK2 | 32.2          | -23.9                  | -23.1        | 38.05                      | 54                 | -15.95      | -                   | -              | 358            | 161         | H        |
| 7      | *** 2.37851     | 47.7                 | PK2 | 32.2          | -23.9                  | 0            | 56                         | -                  | -           | 74                  | -18            | 316            | 344         | V        |
|        | ** 2.37851      | 47.7                 | PK2 | 32.2          | -23.9                  | -23.1        | 32.9                       | 54                 | -21.1       | -                   | -              | 316            | 344         | V        |
| 4      | *** 4.95109     | 50.5                 | PK2 | 33.9          | -31                    | 0            | 53.4                       | -                  | -           | 74                  | -20.6          | 55             | 103         | H        |
|        | ** 4.95109      | 50.5                 | PK2 | 33.9          | -31                    | -23.1        | 30.3                       | 54                 | -23.7       | -                   | -              | 55             | 103         | H        |
| 6      | *** 12.37756    | 39.29                | PK2 | 38.9          | -24.1                  | 0            | 54.09                      | -                  | -           | 74                  | -19.91         | 102            | 114         | H        |
|        | ** 12.37756     | 39.29                | PK2 | 38.9          | -24.1                  | -23.1        | 30.99                      | 54                 | -23.01      | -                   | -              | 102            | 114         | H        |
| 9      | *** 4.95115     | 52.83                | PK2 | 33.9          | -31                    | 0            | 55.73                      | -                  | -           | 74                  | -18.27         | 309            | 115         | V        |
|        | ** 4.95115      | 52.83                | PK2 | 33.9          | -31                    | -23.1        | 32.63                      | 54                 | -21.37      | -                   | -              | 309            | 115         | V        |
| 10     | *** 7.42376     | 39.82                | PK2 | 35.6          | -27.7                  | 0            | 47.72                      | -                  | -           | 74                  | -26.28         | 299            | 101         | V        |
|        | ** 7.42376      | 39.82                | PK2 | 35.6          | -27.7                  | -23.1        | 24.62                      | 54                 | -29.38      | -                   | -              | 299            | 101         | V        |
| 12     | *** 12.37278    | 38.02                | PK2 | 38.9          | -24                    | 0            | 52.92                      | -                  | -           | 74                  | -21.08         | 143            | 111         | V        |
|        | ** 12.37278     | 38.02                | PK2 | 38.9          | -24                    | -23.1        | 29.82                      | 54                 | -24.18      | -                   | -              | 143            | 111         | V        |
| 8      | 2.44324         | 39.18                | Pk  | 32.5          | -24.2                  | 0            | 47.48                      | -                  | -           | -                   | -              | 0-360          | 101         | V        |
| 3      | 2.44357         | 49.22                | Pk  | 32.5          | -24.2                  | 0            | 57.52                      | -                  | -           | -                   | -              | 0-360          | 101         | H        |
| 11     | 9.89789         | 32.07                | Pk  | 36.9          | -25.8                  | 0            | 43.17                      | -                  | -           | -                   | -              | 0-360          | 101         | V        |
| 5      | 9.90122         | 34.59                | Pk  | 36.9          | -25.8                  | 0            | 45.69                      | -                  | -           | -                   | -              | 0-360          | 101         | H        |

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

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

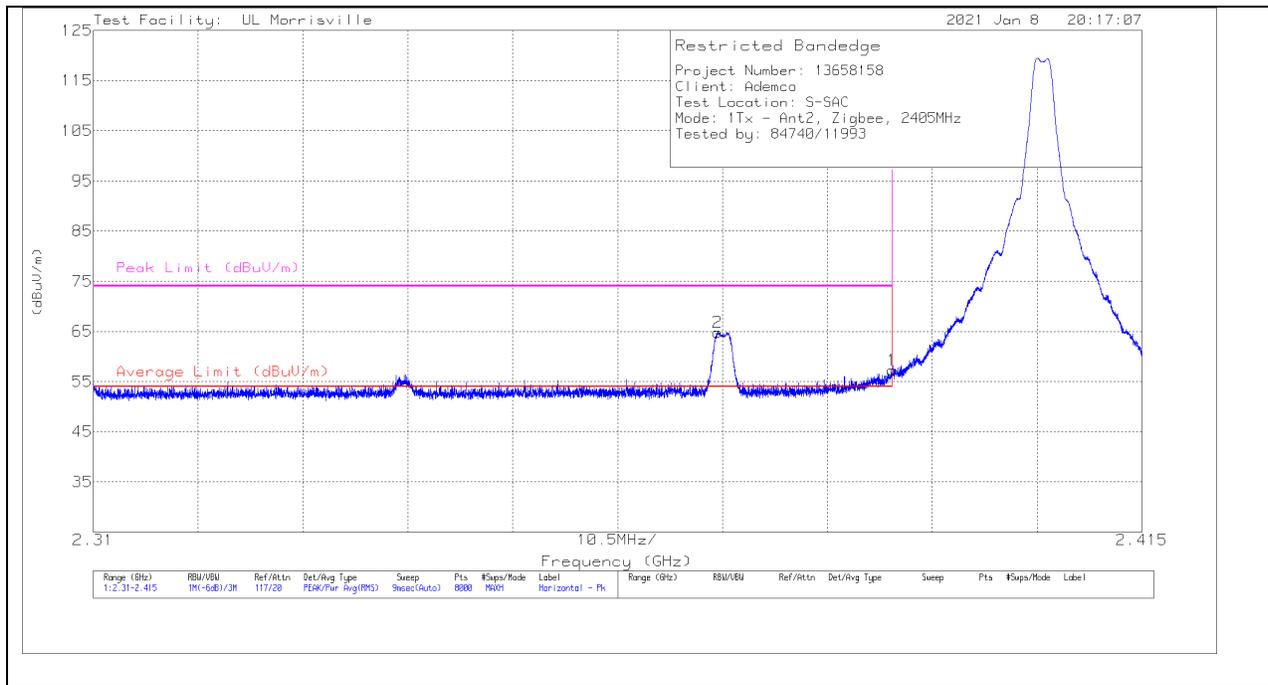
PK2 - Maximum Peak

Pk - Peak detector

**11.2.2. Antenna 2**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**



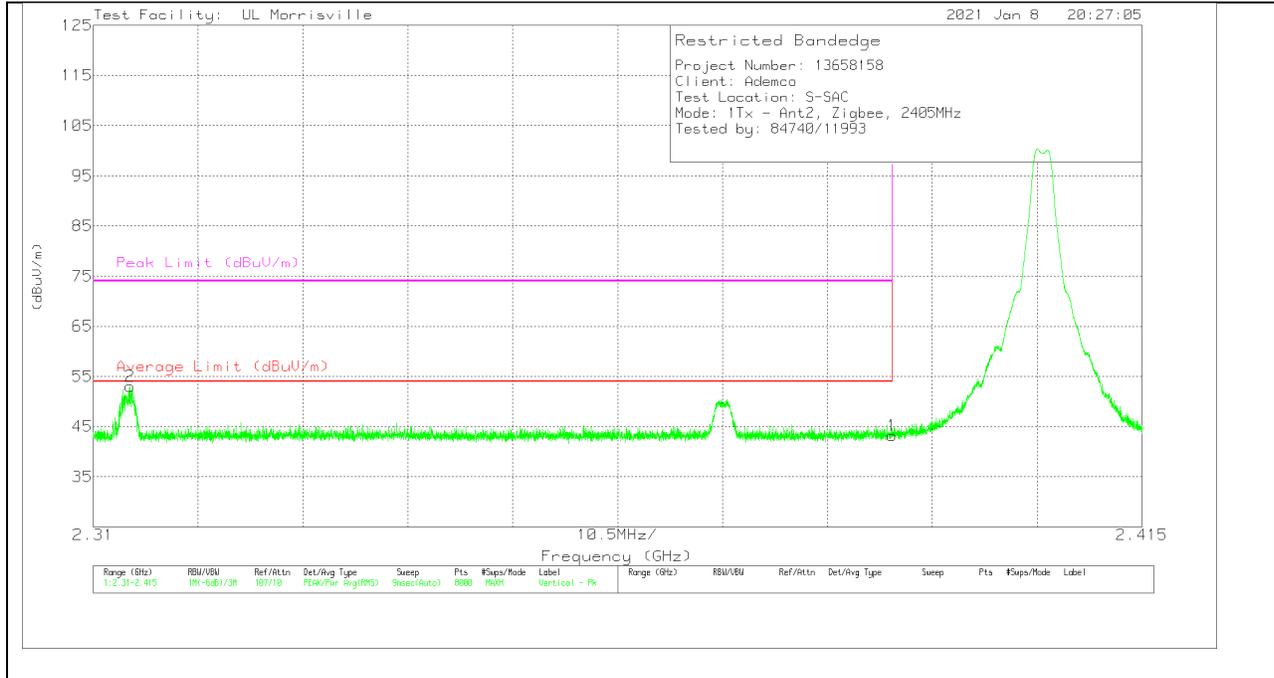
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Fitr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|-----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | *** 2.39        | 49.15                | Pk  | 32.1          | -24                   | 0            | 57.25                      | -                      | -           | 74                  | -16.75         | 261            | 119         | H        |
|        | *** 2.39        | 49.15                | Pk  | 32.1          | -24                   | -23.1        | 34.15                      | 54                     | -19.85      | -                   | -              | 261            | 119         | H        |
| 2      | *** 2.37252     | 56.54                | Pk  | 32.2          | -23.9                 | 0            | 64.84                      | -                      | -           | 74                  | -9.16          | 261            | 119         | H        |
|        | *** 2.37252     | 56.54                | Pk  | 32.2          | -23.9                 | -23.1        | 41.74                      | 54                     | -12.26      | -                   | -              | 261            | 119         | H        |

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

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

Pk - Peak detector

### VERTICAL RESULT

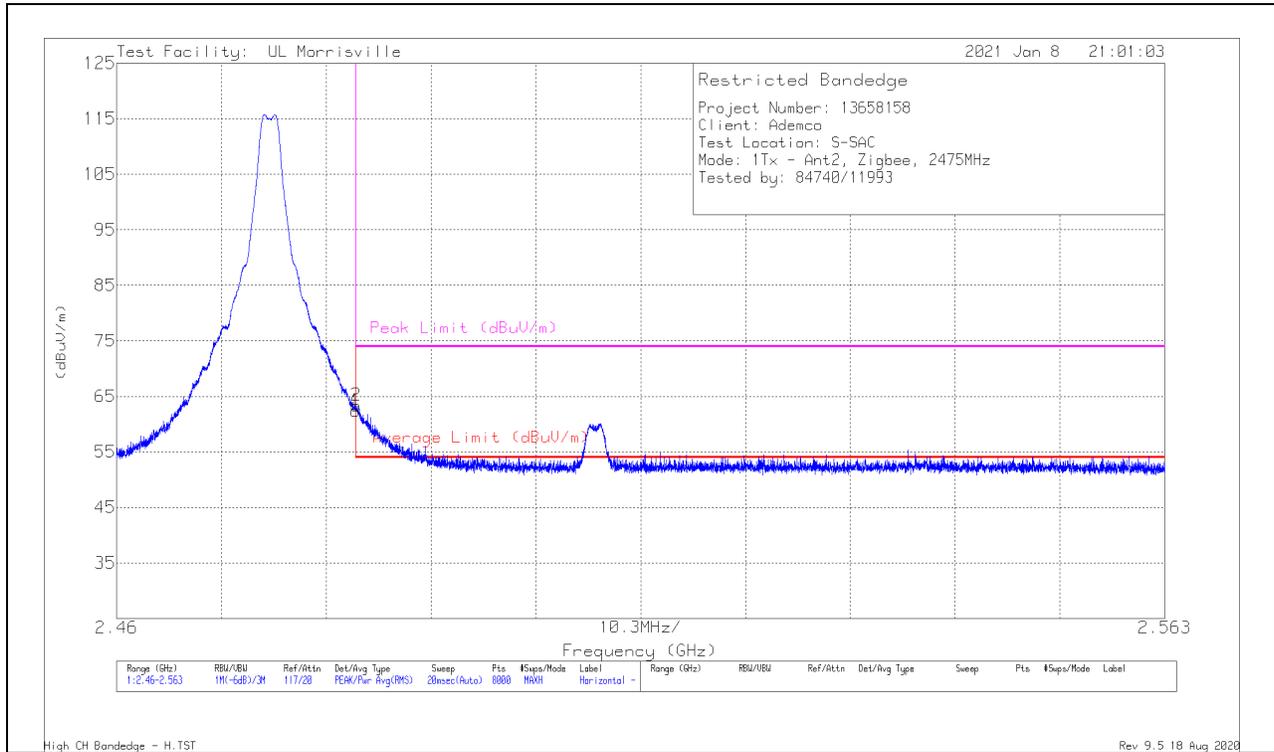


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|-----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | *** 2.39        | 35.16                | Pk  | 32.1          | -24                   | 0            | 43.26                      | -                      | -           | 74                  | -30.74         | 39             | 157         | V        |
|        | ** 2.39         | 35.16                | Pk  | 32.1          | -24                   | -23.1        | 20.16                      | 54                     | -2.94       | -                   | -              | 39             | 157         | V        |
| 2      | *** 2.31365     | 44.63                | Pk  | 32            | -23.6                 | 0            | 53.03                      | -                      | -           | 74                  | -20.97         | 39             | 157         | V        |
|        | ** 2.31365      | 44.63                | Pk  | 32            | -23.6                 | -23.1        | 29.93                      | 54                     | -24.07      | -                   | -              | 39             | 157         | V        |

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

**BANDEDGE (HIGH CHANNEL)**

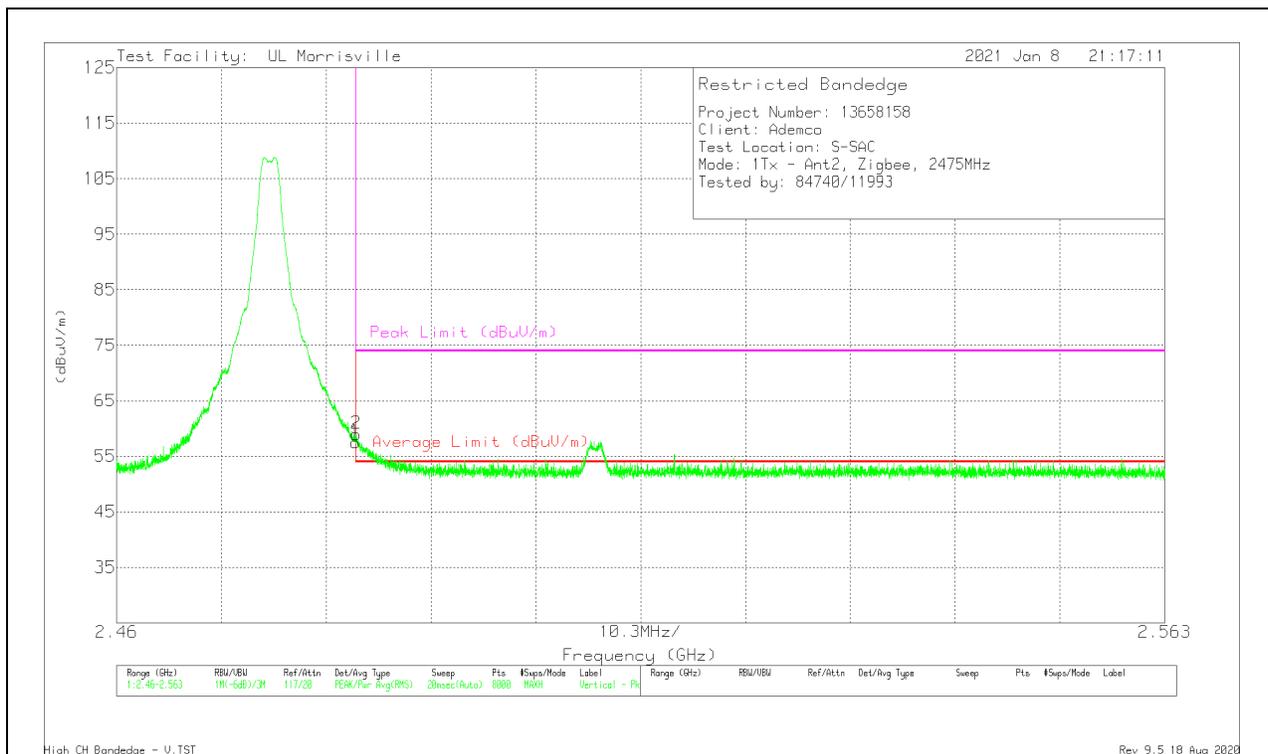
**HORIZONTAL RESULT**



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Fitr/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     | 54.38                | Pk  | 32.4          | -24.4                 | 0            | 62.38                      | -                      | -           | 74                  | -11.62         | 259            | 101         | H        |
|        | * ** 2.4835     | 54.38                | Pk  | 32.4          | -24.4                 | -23.1        | 39.28                      | 54                     | -14.72      | -                   | -              | 259            | 101         | H        |
| 2      | * ** 2.48354    | 55.35                | Pk  | 32.4          | -24.4                 | 0            | 63.35                      | -                      | -           | 74                  | -10.65         | 259            | 101         | H        |
|        | * ** 2.48354    | 55.35                | Pk  | 32.4          | -24.4                 | -23.1        | 40.25                      | 54                     | -13.75      | -                   | -              | 259            | 101         | H        |

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

### VERTICAL RESULT

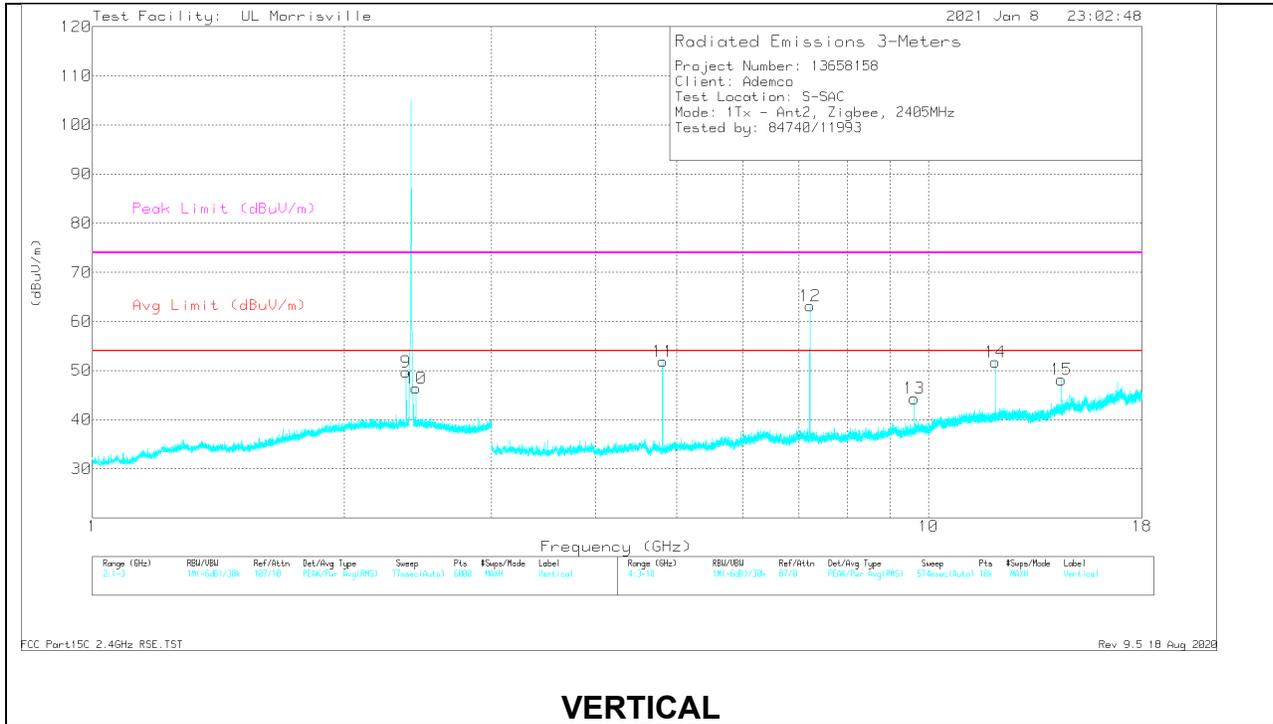
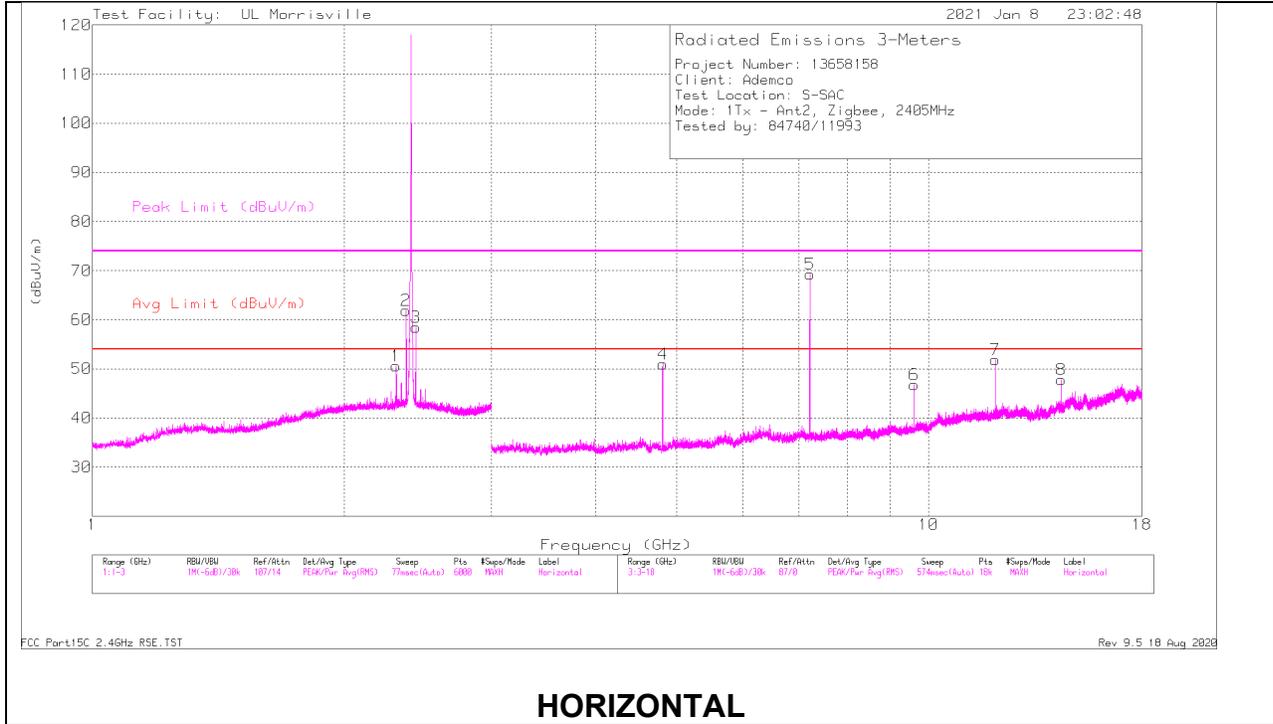


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * ** 2.4835     | 49.52                | Pk  | 32.4          | -24.4                  | 0            | 57.52                      | -                      | -           | 74                  | -16.48         | 337            | 318         | V        |
|        | * ** 2.4835     | 49.52                | Pk  | 32.4          | -24.4                  | -23.1        | 34.42                      | 54                     | -19.58      | -                   | -              | 337            | 318         | V        |
| 2      | * ** 2.48353    | 51.02                | Pk  | 32.4          | -24.4                  | 0            | 59.02                      | -                      | -           | 74                  | -14.98         | 337            | 318         | V        |
|        | * ** 2.48353    | 51.02                | Pk  | 32.4          | -24.4                  | -23.1        | 35.92                      | 54                     | -18.08      | -                   | -              | 337            | 318         | V        |

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

# HARMONICS AND SPURIOUS EMISSIONS

## LOW CHANNEL RESULTS



**RADIATED EMISSIONS**

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (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 |
|--------|-----------------|----------------------|-----|---------------|------------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 2      | *** 2.37349     | 56.16                | PK2 | 32.2          | -23.9                  | 0            | 64.46                      | -                  | -           | 74                  | -9.54          | 261            | 139         | H        |
|        | *** 2.37349     | 56.16                | PK2 | 32.2          | -23.9                  | -23.1        | 41.36                      | 54                 | -12.64      | -                   | -              | 261            | 139         | H        |
| 9      | *** 2.37254     | 51.55                | PK2 | 32.2          | -23.9                  | 0            | 59.85                      | -                  | -           | 74                  | -14.15         | 294            | 349         | V        |
|        | *** 2.37254     | 51.55                | PK2 | 32.2          | -23.9                  | -23.1        | 36.75                      | 54                 | -17.25      | -                   | -              | 294            | 349         | V        |
| 4      | *** 4.80914     | 51.79                | PK2 | 34            | -30.8                  | 0            | 54.99                      | -                  | -           | 74                  | -19.01         | 303            | 117         | H        |
|        | *** 4.80914     | 51.79                | PK2 | 34            | -30.8                  | -23.1        | 31.89                      | 54                 | -22.11      | -                   | -              | 303            | 117         | H        |
| 7      | *** 12.02781    | 42.72                | PK2 | 38.7          | -24                    | 0            | 57.42                      | -                  | -           | 74                  | -16.58         | 73             | 104         | H        |
|        | *** 12.02781    | 42.72                | PK2 | 38.7          | -24                    | -23.1        | 32.32                      | 54                 | -19.68      | -                   | -              | 73             | 104         | H        |
| 11     | *** 4.80904     | 51.89                | PK2 | 34            | -30.9                  | 0            | 54.99                      | -                  | -           | 74                  | -19.01         | 313            | 101         | V        |
|        | *** 4.80904     | 51.89                | PK2 | 34            | -30.9                  | -23.1        | 31.89                      | 54                 | -22.11      | -                   | -              | 313            | 101         | V        |
| 14     | *** 12.02247    | 41.21                | PK2 | 38.7          | -24.1                  | 0            | 55.81                      | -                  | -           | 74                  | -18.19         | 187            | 104         | V        |
|        | *** 12.02247    | 41.21                | PK2 | 38.7          | -24.1                  | -23.1        | 32.72                      | 54                 | -21.29      | -                   | -              | 187            | 104         | V        |
| 1      | 2.30922         | 42.21                | Pk  | 32            | -23.6                  | 0            | 50.61                      | -                  | -           | -                   | -              | 0-360          | 101         | H        |
| 10     | 2.43691         | 38.26                | Pk  | 32.4          | -24.2                  | 0            | 46.46                      | -                  | -           | -                   | -              | 0-360          | 200         | V        |
| 3      | 2.43724         | 50.23                | Pk  | 32.4          | -24.2                  | 0            | 58.43                      | -                  | -           | -                   | -              | 0-360          | 101         | H        |
| 5      | 7.21607         | 61.61                | Pk  | 35.6          | -27.9                  | 0            | 69.31                      | -                  | -           | -                   | -              | 0-360          | 101         | H        |
| 12     | 7.21607         | 55.41                | Pk  | 35.6          | -27.9                  | 0            | 63.11                      | -                  | -           | -                   | -              | 0-360          | 101         | V        |
| 13     | 9.6212          | 34.02                | Pk  | 36.6          | -26.3                  | 0            | 44.32                      | -                  | -           | -                   | -              | 0-360          | 101         | V        |
| 6      | 9.62204         | 36.41                | Pk  | 36.6          | -26.2                  | 0            | 46.81                      | -                  | -           | -                   | -              | 0-360          | 101         | H        |
| 8      | 14.42731        | 33.29                | Pk  | 39.4          | -24.9                  | 0            | 47.79                      | -                  | -           | -                   | -              | 0-360          | 101         | H        |
| 15     | 14.42731        | 33.63                | Pk  | 39.4          | -24.9                  | 0            | 48.13                      | -                  | -           | -                   | -              | 0-360          | 101         | V        |

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

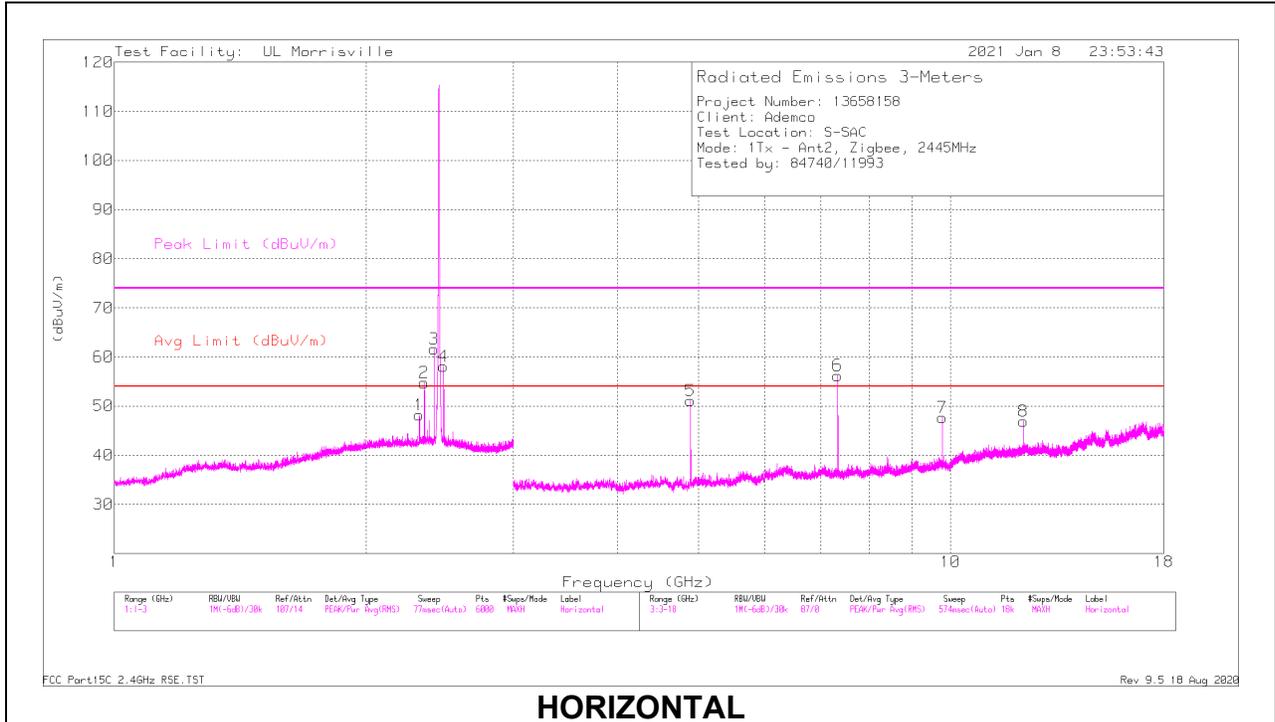
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - Maximum Peak

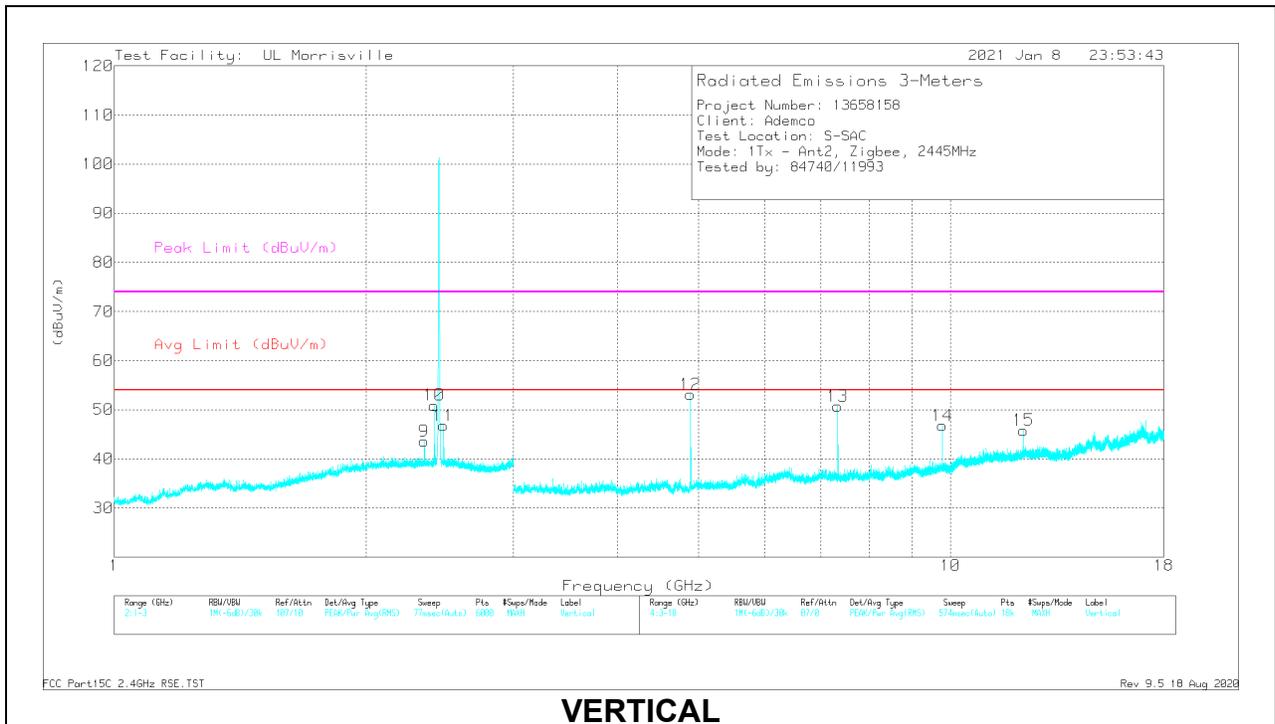
Pk - Peak detector



### MID CHANNEL RESULTS



### HORIZONTAL



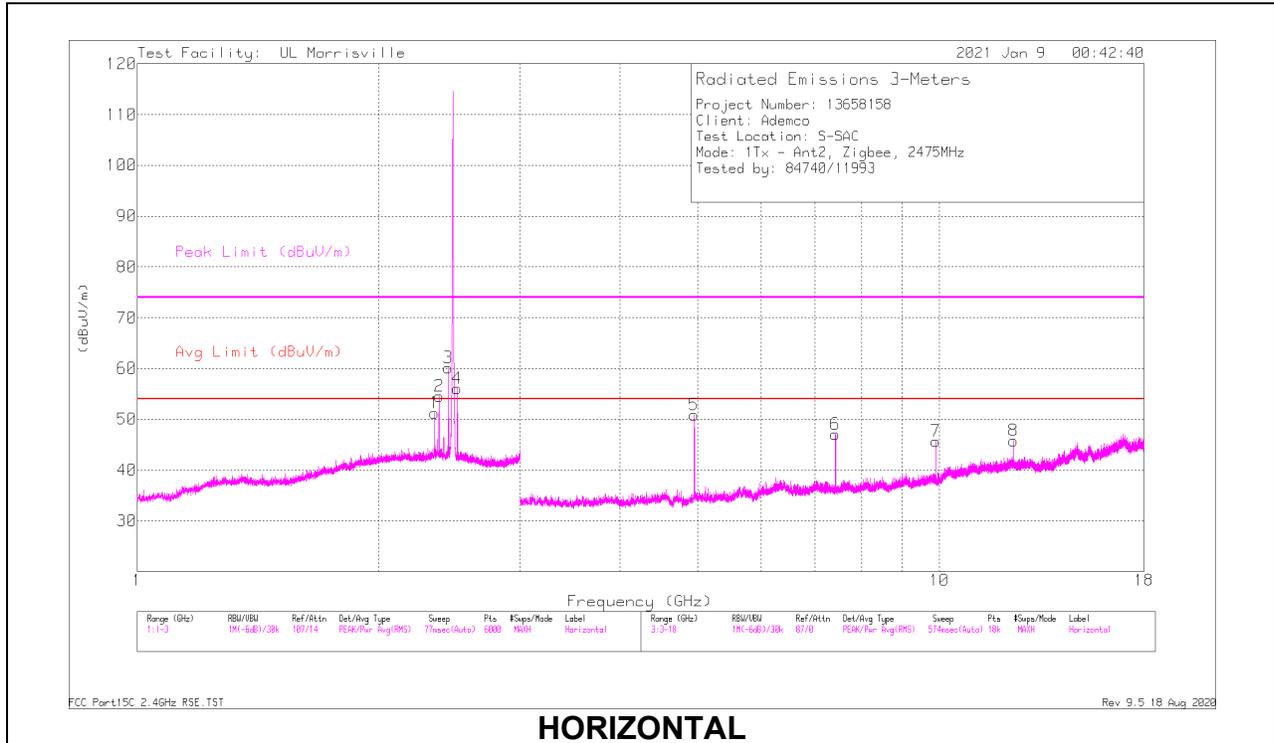
### VERTICAL

**RADIATED EMISSIONS**

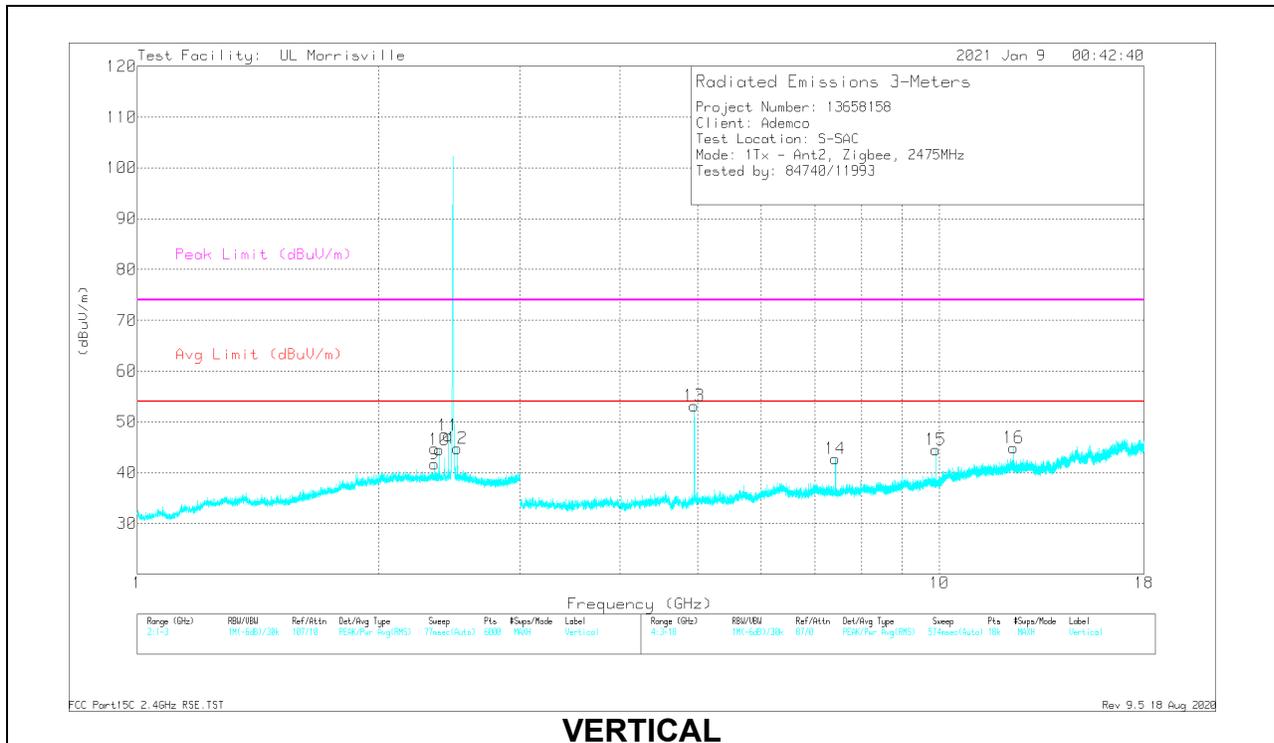
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | *** 2.3174      | 45.6                 | PK2 | 32            | -23.7                  | 0            | 53.9                       | -                  | -           | 74                  | -20.1          | 256            | 123         | H        |
|        | *** 2.3174      | 45.6                 | PK2 | 32            | -23.7                  | -23.1        | 30.8                       | 54                 | -23.2       | -                   | -              | 256            | 123         | H        |
| 2      | *** 2.3486      | 49.87                | PK2 | 32.2          | -23.9                  | 0            | 58.17                      | -                  | -           | 74                  | -15.83         | 257            | 143         | H        |
|        | *** 2.3486      | 49.87                | PK2 | 32.2          | -23.9                  | -23.1        | 35.07                      | 54                 | -18.93      | -                   | -              | 257            | 143         | H        |
| 9      | *** 2.34952     | 42.87                | PK2 | 32.2          | -23.9                  | 0            | 51.17                      | -                  | -           | 74                  | -22.83         | 276            | 355         | V        |
|        | *** 2.34952     | 42.87                | PK2 | 32.2          | -23.9                  | -23.1        | 28.07                      | 54                 | -25.93      | -                   | -              | 276            | 355         | V        |
| 5      | *** 4.89113     | 51.78                | PK2 | 34            | -30.9                  | 0            | 54.88                      | -                  | -           | 74                  | -19.12         | 4              | 101         | H        |
|        | *** 4.89113     | 51.78                | PK2 | 34            | -30.9                  | -23.1        | 31.78                      | 54                 | -22.22      | -                   | -              | 4              | 101         | H        |
| 6      | *** 7.33359     | 51.83                | PK2 | 35.6          | -27.3                  | 0            | 60.13                      | -                  | -           | 74                  | -13.87         | 10             | 101         | H        |
|        | *** 7.33359     | 51.83                | PK2 | 35.6          | -27.3                  | -23.1        | 37.03                      | 54                 | -16.97      | -                   | -              | 10             | 101         | H        |
| 8      | *** 12.22263    | 39.31                | PK2 | 38.8          | -24.2                  | 0            | 53.91                      | -                  | -           | 74                  | -20.09         | 105            | 115         | H        |
|        | *** 12.22263    | 39.31                | PK2 | 38.8          | -24.2                  | -23.1        | 30.81                      | 54                 | -23.19      | -                   | -              | 105            | 115         | H        |
| 12     | *** 4.89108     | 53.11                | PK2 | 34            | -30.9                  | 0            | 56.21                      | -                  | -           | 74                  | -17.79         | 313            | 102         | V        |
|        | *** 4.89108     | 53.11                | PK2 | 34            | -30.9                  | -23.1        | 33.11                      | 54                 | -20.89      | -                   | -              | 313            | 102         | V        |
| 13     | *** 7.33365     | 46.93                | PK2 | 35.6          | -27.3                  | 0            | 55.23                      | -                  | -           | 74                  | -18.77         | 20             | 102         | V        |
|        | *** 7.33365     | 46.93                | PK2 | 35.6          | -27.3                  | -23.1        | 32.13                      | 54                 | -21.87      | -                   | -              | 20             | 102         | V        |
| 15     | *** 12.22757    | 38.2                 | PK2 | 38.8          | -24.3                  | 0            | 52.7                       | -                  | -           | 74                  | -21.3          | 150            | 110         | V        |
|        | *** 12.22757    | 38.2                 | PK2 | 38.8          | -24.3                  | -23.1        | 29.6                       | 54                 | -24.4       | -                   | -              | 150            | 110         | V        |
| 3      | 2.41324         | 53.59                | Pk  | 32.2          | -24.1                  | 0            | 61.69                      | -                  | -           | -                   | -              | 0-360          | 101         | H        |
| 10     | 2.41324         | 42.82                | Pk  | 32.2          | -24.1                  | 0            | 50.92                      | -                  | -           | -                   | -              | 0-360          | 101         | V        |
| 4      | 2.47725         | 50.23                | Pk  | 32.4          | -24.5                  | 0            | 58.13                      | -                  | -           | -                   | -              | 0-360          | 199         | H        |
| 11     | 2.47725         | 38.86                | Pk  | 32.4          | -24.5                  | 0            | 46.76                      | -                  | -           | -                   | -              | 0-360          | 101         | V        |
| 7      | 9.78121         | 36.78                | Pk  | 36.8          | -25.9                  | 0            | 47.68                      | -                  | -           | -                   | -              | 0-360          | 101         | H        |
| 14     | 9.78121         | 35.95                | Pk  | 36.8          | -25.9                  | 0            | 46.85                      | -                  | -           | -                   | -              | 0-360          | 101         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 PK2 - KDB558074 Method: Maximum Peak  
 Pk - Peak detector

### HIGH CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (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      | *** 2.34659     | 47.34                | PK2 | 32.2          | -23.9                  | 0            | 55.64                      | -                  | -           | 74                  | -18.36         | 261            | 142         | H        |
|        | *** 2.34659     | 47.34                | PK2 | 32.2          | -23.9                  | -23.1        | 32.54                      | 54                 | -21.46      | -                   | -              | 261            | 142         | H        |
| 2      | *** 2.37855     | 50.87                | PK2 | 32.2          | -23.9                  | 0            | 59.17                      | -                  | -           | 74                  | -14.83         | 262            | 139         | H        |
|        | *** 2.37855     | 50.87                | PK2 | 32.2          | -23.9                  | -23.1        | 36.07                      | 54                 | -17.93      | -                   | -              | 262            | 139         | H        |
| 4      | ** 2.50652      | 52.62                | PK2 | 32.4          | -24.7                  | 0            | 60.32                      | -                  | -           | 74                  | -13.68         | 259            | 111         | H        |
|        | ** 2.50652      | 52.62                | PK2 | 32.4          | -24.7                  | -23.1        | 37.22                      | 54                 | -16.78      | -                   | -              | 259            | 111         | H        |
| 9      | *** 2.34681     | 42.44                | PK2 | 32.2          | -23.9                  | 0            | 50.74                      | -                  | -           | 74                  | -23.26         | 284            | 361         | V        |
|        | *** 2.34681     | 42.44                | PK2 | 32.2          | -23.9                  | -23.1        | 27.64                      | 54                 | -26.36      | -                   | -              | 284            | 361         | V        |
| 10     | *** 2.37959     | 46.62                | PK2 | 32.2          | -23.9                  | 0            | 54.92                      | -                  | -           | 74                  | -19.08         | 310            | 351         | V        |
|        | *** 2.37959     | 46.62                | PK2 | 32.2          | -23.9                  | -23.1        | 31.82                      | 54                 | -22.18      | -                   | -              | 310            | 351         | V        |
| 12     | ** 2.50648      | 47.17                | PK2 | 32.4          | -24.7                  | 0            | 54.87                      | -                  | -           | 74                  | -19.13         | 325            | 397         | V        |
|        | ** 2.50648      | 47.17                | PK2 | 32.4          | -24.7                  | -23.1        | 31.77                      | 54                 | -22.23      | -                   | -              | 325            | 397         | V        |
| 5      | *** 4.95109     | 52                   | PK2 | 33.9          | -31                    | 0            | 54.9                       | -                  | -           | 74                  | -19.1          | 5              | 118         | H        |
|        | *** 4.95109     | 52                   | PK2 | 33.9          | -31                    | -23.1        | 31.8                       | 54                 | -22.20      | -                   | -              | 5              | 118         | H        |
| 6      | *** 7.42374     | 44.31                | PK2 | 35.6          | -27.7                  | 0            | 52.21                      | -                  | -           | 74                  | -21.79         | 17             | 103         | H        |
|        | *** 7.42374     | 44.31                | PK2 | 35.6          | -27.7                  | -23.1        | 29.11                      | 54                 | -24.89      | -                   | -              | 17             | 103         | H        |
| 8      | *** 12.37774    | 37.64                | PK2 | 38.9          | -24.1                  | 0            | 52.44                      | -                  | -           | 74                  | -21.56         | 108            | 107         | H        |
|        | *** 12.37774    | 37.64                | PK2 | 38.9          | -24.1                  | -23.1        | 29.34                      | 54                 | -24.66      | -                   | -              | 108            | 107         | H        |
| 13     | *** 4.95112     | 53.92                | PK2 | 33.9          | -31                    | 0            | 56.82                      | -                  | -           | 74                  | -17.18         | 308            | 102         | V        |
|        | *** 4.95112     | 53.92                | PK2 | 33.9          | -31                    | -23.1        | 33.72                      | 54                 | -20.28      | -                   | -              | 308            | 102         | V        |
| 14     | *** 7.42355     | 40.96                | PK2 | 35.6          | -27.7                  | 0            | 48.86                      | -                  | -           | 74                  | -25.14         | 22             | 102         | V        |
|        | *** 7.42355     | 40.96                | PK2 | 35.6          | -27.7                  | -23.1        | 25.76                      | 54                 | -28.24      | -                   | -              | 22             | 102         | V        |
| 16     | *** 12.37777    | 35.85                | PK2 | 38.9          | -24.1                  | 0            | 50.65                      | -                  | -           | 74                  | -23.35         | 185            | 103         | V        |
|        | *** 12.37777    | 35.85                | PK2 | 38.9          | -24.1                  | -23.1        | 27.55                      | 54                 | -26.45      | -                   | -              | 185            | 103         | V        |
| 11     | 2.44291         | 39.03                | Pk  | 32.5          | -24.2                  | 0            | 47.33                      | -                  | -           | -                   | -              | 0-360          | 101         | V        |
| 3      | 2.44324         | 51.87                | Pk  | 32.5          | -24.2                  | 0            | 60.17                      | -                  | -           | -                   | -              | 0-360          | 101         | H        |
| 15     | 9.89789         | 33.36                | Pk  | 36.9          | -25.8                  | 0            | 44.46                      | -                  | -           | -                   | -              | 0-360          | 101         | V        |
| 7      | 9.90205         | 34.57                | Pk  | 36.9          | -25.8                  | 0            | 45.67                      | -                  | -           | -                   | -              | 0-360          | 101         | H        |

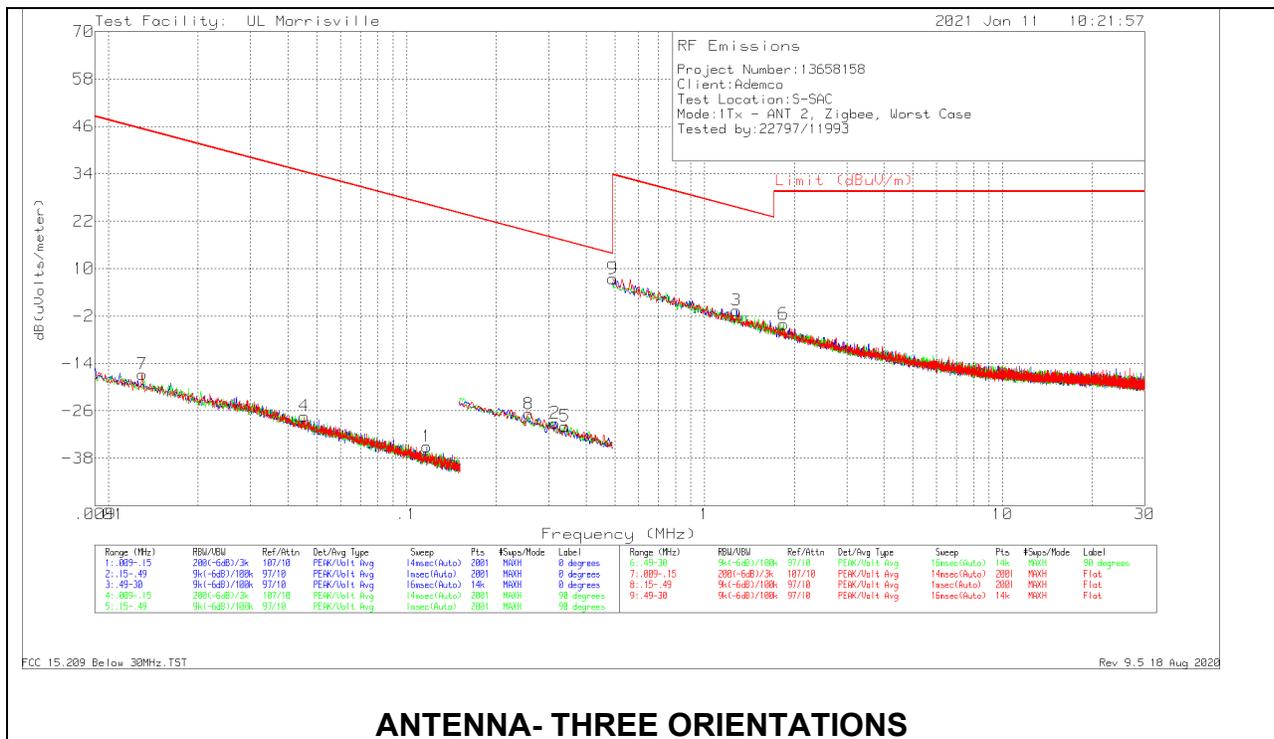
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 PK2 - Maximum Peak  
 Pk - Peak detector

### 11.3. WORST CASE BELOW 30MHZ

Note: 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\*Log (test distance / 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 377Ω. For example, the measurement frequency 12.98kHz resulted in a level of -16.68 dBuV/m, which is equivalent to  $-16.68-51.5 = -68.18$  dBuA/m, which has the same margin, -62.02 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)



#### ANTENNA- THREE ORIENTATIONS

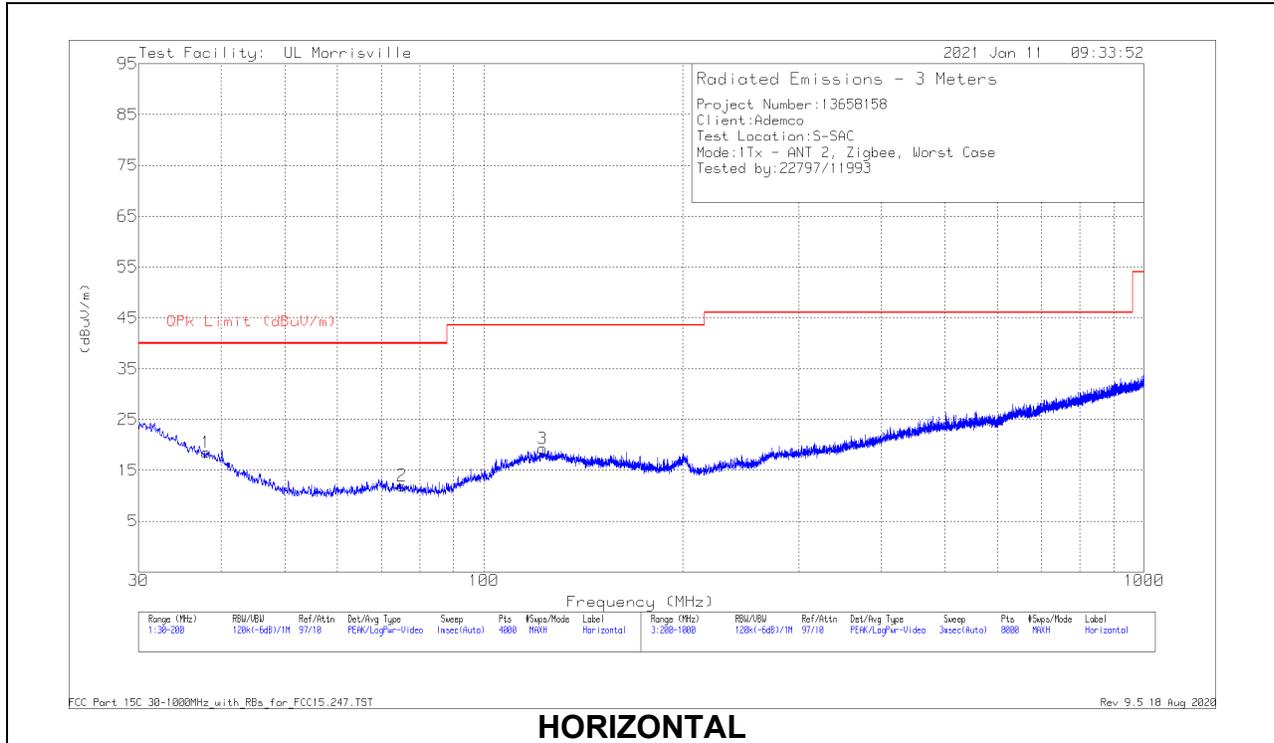
**Below 30MHz Data**

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AT0079 (dB/m) | Cbl (dB) | Dist. Corr. Factor (dB) | Corrected Reading dB(uVolts/meter) | FCC 15.209 Qp/Avg Limit (dBuV/m) | FCC 15.209 Pk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) |
|--------|-----------------|----------------------|-----|---------------|----------|-------------------------|------------------------------------|----------------------------------|------------------------------|-------------|----------------|
| 7      | .01298          | 46.52                | Pk  | 16.7          | .1       | -80                     | -16.68                             | 45.34                            | 65.34                        | -62.02      | 0-360          |
| 4      | .04542          | 40.72                | Pk  | 11.9          | .1       | -80                     | -27.28                             | 34.46                            | 64.46                        | -61.74      | 0-360          |
| 1      | .11685          | 33.97                | Pk  | 10.9          | .1       | -80                     | -35.03                             | 26.25                            | 46.25                        | -61.28      | 0-360          |
| 8      | .25736          | 42.47                | Pk  | 10.7          | .1       | -80                     | -26.73                             | 19.39                            | 39.39                        | -46.12      | 0-360          |
| 2      | .31507          | 40.12                | Pk  | 10.7          | .1       | -80                     | -29.08                             | 17.64                            | 37.64                        | -46.72      | 0-360          |
| 5      | .34049          | 39.37                | Pk  | 10.7          | .1       | -80                     | -29.83                             | 16.96                            | 36.96                        | -46.79      | 0-360          |
| 9      | .49211          | 36.59                | Pk  | 10.8          | .1       | -40                     | 7.49                               | 33.76                            | -                            | -26.27      | 0-360          |
| 3      | 1.2805          | 28.27                | Pk  | 11            | .2       | -40                     | -.53                               | 25.46                            | -                            | -25.99      | 0-360          |
| 6      | 1.84123         | 24.67                | Pk  | 11.1          | .2       | -40                     | -4.03                              | 29.54                            | -                            | -33.57      | 0-360          |

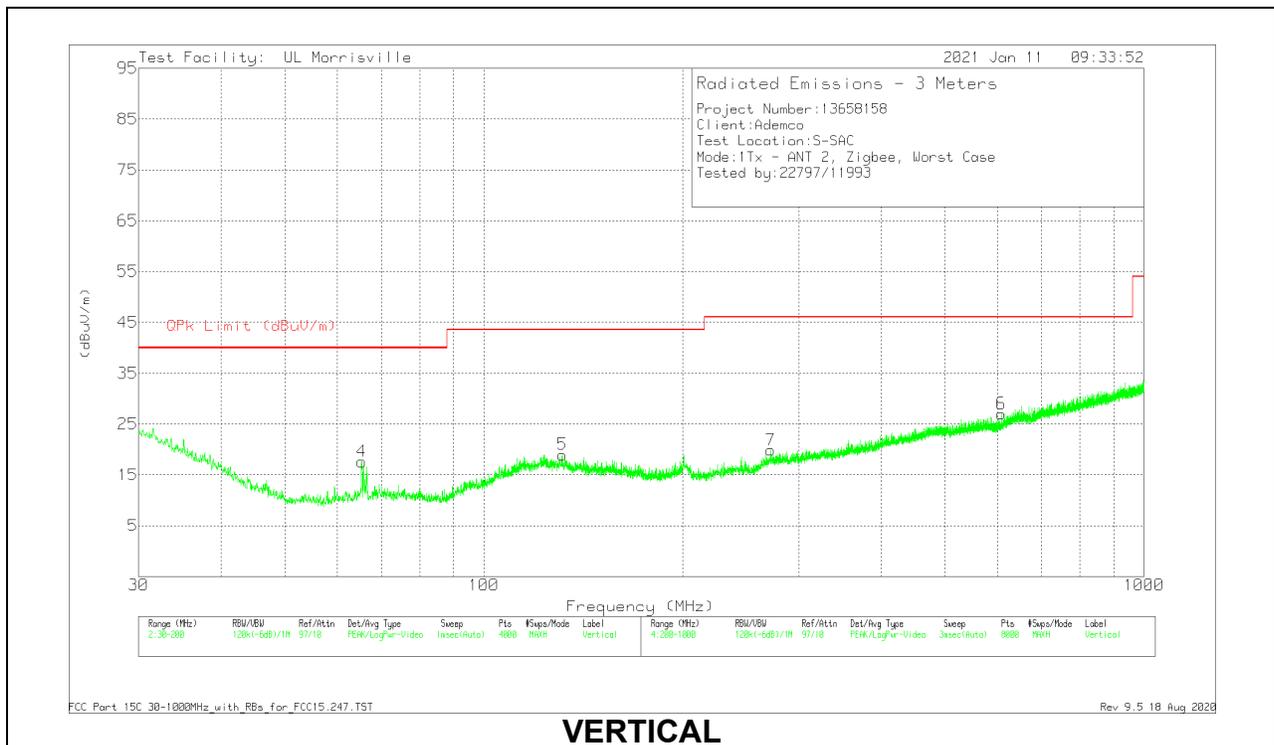
Pk - Peak detector

### 11.4. 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 | AT0075 AF (dB/m) | Amp/Cbl (dB) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|------------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1      | * ** 37.9921    | 28.61                | Pk  | 21.3             | -31.4        | 18.51                      | 40                 | -21.49      | 0-360          | 299         | H        |
| 2      | * ** 75.1892    | 28.55                | Pk  | 14.3             | -30.9        | 11.95                      | 40                 | -28.05      | 0-360          | 400         | H        |
| 3      | * ** 122.7165   | 29.46                | Pk  | 20.1             | -30.3        | 19.26                      | 43.52              | -24.26      | 0-360          | 200         | H        |
| 5      | * ** 131.6013   | 29.35                | Pk  | 19.8             | -30.2        | 18.95                      | 43.52              | -24.57      | 0-360          | 101         | V        |
| 6      | * ** 608.2531   | 29.81                | Pk  | 24.7             | -27.5        | 27.01                      | 46.02              | -19.01      | 0-360          | 200         | V        |
| 7      | * ** 272.0094   | 29.58                | Pk  | 19.3             | -29          | 19.88                      | 46.02              | -26.14      | 0-360          | 200         | V        |
| 4      | 65.3266         | 34.51                | Pk  | 14.1             | -31          | 17.61                      | 40                 | -22.39      | 0-360          | 101         | V        |

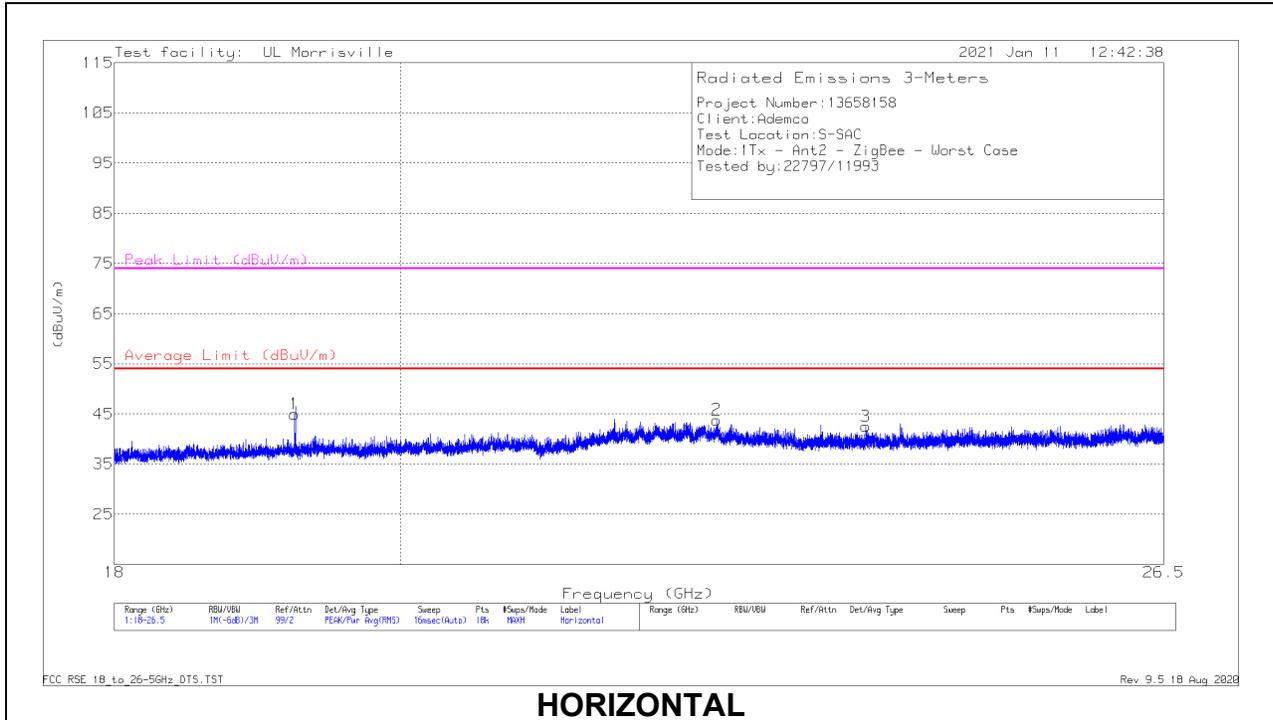
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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

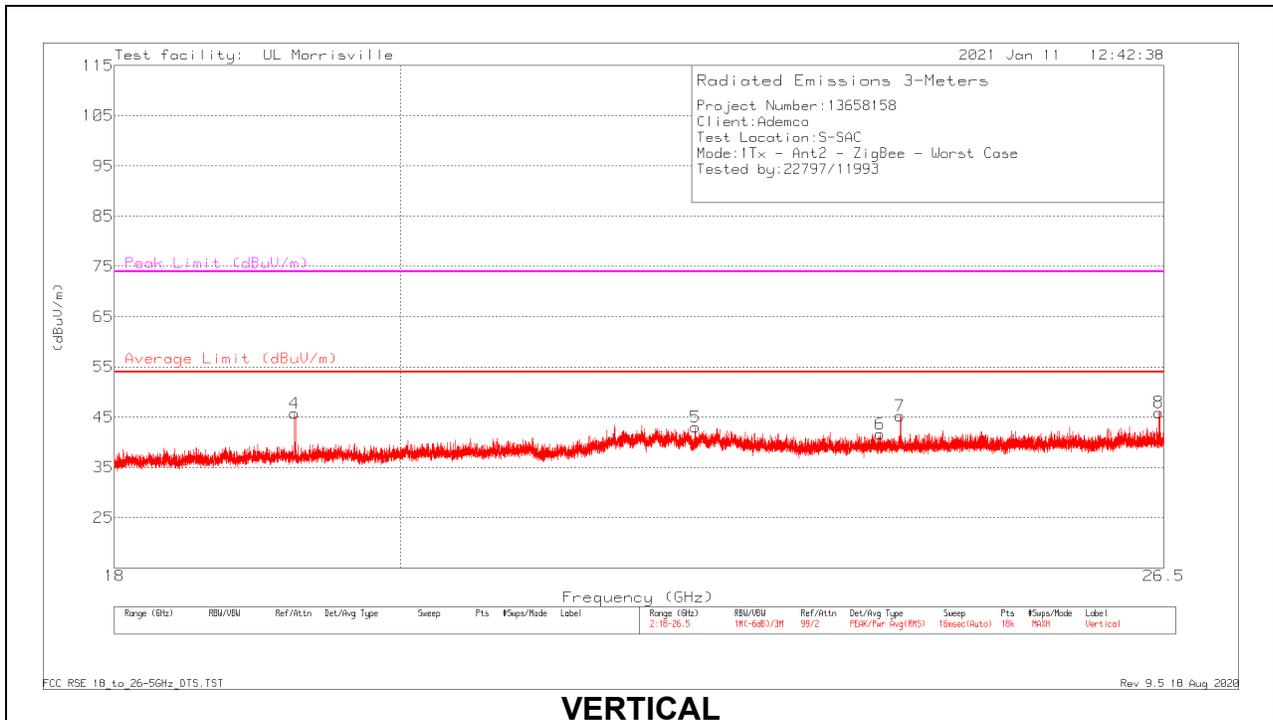
Pk - Peak detector

### 11.5. WORST CASE 18-26GHz

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



**HORIZONTAL**



**VERTICAL**

**18 – 26 GHz Data**

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0063 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      | * ** 19.23682   | 50.65                | Pk  | 33.4             | -39.1        | 44.95                      | 54                     | -9.05       | 74                  | -29.05      | 0-360          | 101         | H        |
| 2      | * ** 22.47361   | 46.23                | Pk  | 36.5             | -38.9        | 43.83                      | 54                     | -10.17      | 74                  | -30.17      | 0-360          | 150         | H        |
| 3      | * ** 23.74348   | 46.33                | Pk  | 34.8             | -38.6        | 42.53                      | 54                     | -11.47      | 74                  | -31.47      | 0-360          | 150         | H        |
| 4      | * ** 19.23611   | 51.48                | Pk  | 33.4             | -39.1        | 45.78                      | 54                     | -8.22       | 74                  | -28.22      | 0-360          | 101         | V        |
| 5      | * ** 22.29651   | 45.9                 | Pk  | 36.5             | -39.4        | 43                         | 54                     | -11         | 74                  | -31         | 0-360          | 101         | V        |
| 6      | * ** 23.86721   | 45.27                | Pk  | 34.9             | -38.5        | 41.67                      | 54                     | -12.33      | 74                  | -32.33      | 0-360          | 101         | V        |
| 7      | 24.04666        | 48.72                | Pk  | 34.9             | -38.4        | 45.22                      | 54                     | -8.78       | 74                  | -28.78      | 0-360          | 101         | V        |
| 8      | 26.45088        | 47.74                | Pk  | 35.6             | -37.4        | 45.94                      | 54                     | -8.06       | 74                  | -28.06      | 0-360          | 101         | V        |

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

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

Pk - Peak detector

## 12. SETUP PHOTOS

Please refer to R13658158-EP1 for setup photos

**END OF TEST REPORT**