# TEST REPORT

## Report Number. : R14381848-E2

| | | |
|---|---|---|
| **Applicant** | : | Ademco Inc<br>251 Little Falls Dr.<br>Wilmington, DE 19808-1674, U.S.A. |
| **Model** | : | PROOUTMV |
| **FCC ID** | : | CFS8DLPROINDMV |
| **IC** | : | 573F-PROINDMV |
| **EUT Description** | : | PROOUTMV Wireless Motion Detector |
| **Test Standard(s)** | : | FCC 47 CFR PART 15 SUBPART C:2022<br>ISED RSS-247 ISSUE 2: 2017<br>ISED RSS-GEN ISSUE 5 + A2:2021 |

**Date Of Issue:**
2022-12-08

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

CERT #0751.06

# REPORT REVISION HISTORY

| Rev. | Issue Date | Revisions | Revised By |
|---|---|---|---|
| V1 | 2022-10-19 | Initial Issue | Charles Moody |
| V2 | 2022-11-22 | Updated Measuring Equipment | Charles Moody |
| V3 | 2022-12-08 | Update Duty Cycle Testing and Measuring Equipment Information | Charles Moody |



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# TABLE OF CONTENTS





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# 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** Ademco Inc
251 Little Falls Dr.
Wilmington, DE 19808-1674, U.S.A.

**EUT DESCRIPTION:** PROOUTMV Wireless Motion Detector

**MODEL:** PROOUTMV

**SERIAL NUMBER:** 02183B01

**SAMPLE RECEIPT DATE:** 2022-06-29

**DATE TESTED:** 2022-08-12 TO 2022-10-06

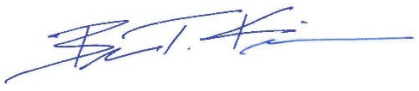
| APPLICABLE STANDARDS | |
|---|---|
| **STANDARD** | **TEST RESULTS** |
| CFR 47 Part 15 Subpart C | See section 2 |
| ISED RSS-247 Issue 2 | See section 2 |
| ISED RSS-GEN Issue 5 + A2 | See section 2 |

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

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

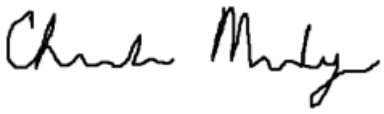
This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, or any agency of the U.S. government.

Approved & Released For
UL LLC Inc. By:



Brian Kiewra
Project Engineer
Consumer, Medical and IT Segment
UL LLC

Prepared By:



Charles Moody
Electrical Engineer
Consumer, Medical and IT Segment
UL LLC

# 2. TEST RESULTS SUMMARY

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

| FCC Clause | ISED Clause | Requirement | Result | Comment |
|---|---|---|---|---|
| See Comment | | Duty Cycle | Reporting purposes only | ANSI C63.10 Section 11.6. |
| - | RSS-GEN 6.7 | 99% OBW | Not Performed | Refer to Note 1 |
| 15.247 (a) (2) | RSS-247 5.2 (a) | 6dB BW | | |
| 15.247 (b) (3) | RSS-247 5.4 (d) | Output Power | | |
| See Comment | | Average power | | |
| 15.247 (e) | RSS-247 5.2 (b) | PSD | | |
| 15.247 (d) | RSS-247 5.5 | Conducted Spurious Emissions | | |
| 15.209, 15.205 | RSS-GEN 8.9, 8.10 | Radiated Emissions | Complies | None |
| 15.207 | RSS-Gen 8.8 | AC Mains Conducted Emissions | N/A | EUT is not AC powered and uses a battery |

Note 1: This test report covers a Class 2 Permissive Change to a device which has undergone a change to the original enclosure. This change includes the addition of a Hall sensor and a magnet as a tamper. For this report, only radiated emissions testing was performed.



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# 3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15: 2022, ANSI C63.10-2013, KDB 558074 D01 15.247 Meas Guidance v05r02, KDB 414788 D01 Radiated Test Site v01r01, RSS-GEN Issue 5 + A2, and RSS-247 Issue 2.

# 4. FACILITIES AND ACCREDITATION

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

| | Address | ISED CABID | ISED Company Number | FCC Registration |
|---|---|---|---|---|
| ☒ | Building<br>2800 Suite Perimeter Park Dr. Suite B<br>Morrisville, NC 27560, U.S.A | US0067 | 27265 | 825374 |

# 5. DECISION RULES AND MEASUREMENT UNCERTAINTY

## 5.1. METROLOGICAL TRACEABILITY

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

## 5.2. DECISION RULES

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

## 5.3. MEASUREMENT UNCERTAINTY

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

| PARAMETER | $U_{LAB}$ |
|---|---|
| All emissions, radiated | 6.01 dB |

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 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m



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# 6. EQUIPMENT UNDER TEST

## 6.1. EUT DESCRIPTION

The EUT is a battery-powered, wireless outdoor motion detector that communicates through the use of a 900 MHz radio. This report covers full radiated emissions testing of the 900 MHz radio.

## 6.2. MAXIMUM OUTPUT POWER

The purpose of this report is to cover a Class 2 Permissive Change to a device which has undergone a change to the enclosure. This change includes the addition of a Hall sensor and a magnet as a tamper. Only radiated emissions testing was performed. Therefore, power measurements are not covered in this report.

## 6.3. DESCRIPTION OF AVAILABLE ANTENNAS

The antenna(s) gain and type, as provided by the manufacturer' are as follows:

The radio utilizes a PCB, inverted F antenna, with a maximum gain of 2.15 dBi.

## 6.4. SOFTWARE AND FIRMWARE

The EUT MCU firmware version installed during testing was A00e.

The EUT MPU firmware version installed during testing was D00a.

## 6.5. WORST-CASE CONFIGURATION AND MODE

Radiated emissions below 30MHz, were performed with the EUT set to transmit at the channel with highest power spectral density from the original radio module manufacturer's report as worst-case scenario. This was done for both data rates, Wiselink Mode (38.672kbps), and Streaming Mode (300kbps).

Radiated emissions between 30MHz and 1000MHz, and 1GHz and 10GHz were performed with the EUT set to transmit at the max power setting on low, middle and high channels for both data rates.

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



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## 6.6. DESCRIPTION OF TEST SETUP

**SUPPORT EQUIPMENT**

| Support Equipment List | | | | |
|---|---|---|---|---|
| **Description** | **Manufacturer** | **Model** | **Serial Number** | **FCC ID** |
| Laptop | Lenovo | RTP0116PC0A2UQT | N/A | N/A |

**I/O CABLES**

| I/O Cable List | | | | | | |
|---|---|---|---|---|---|---|
| **Cable No.** | **Port** | **# of Identical Ports** | **Connector Type** | **Cable Type** | **Cable Length (m)** | **Remarks** |
| 1 | USB | 1 | 3-Pin | Shielded | <3m | Debug Cable |

**TEST SETUP**

The EUT was connected to the support laptop using the UART Debug cable prior to testing to configure the radio. However, for radiated emissions testing, the EUT was disconnected from all support equipment.

**SETUP DIAGRAMS**

Please refer to R14381848-EP1 for setup diagrams



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# 7. MEASUREMENT METHOD

On Time and Duty Cycle: ANSI C63.10 Subclause – 11.6

Radiated Emissions Restricted Frequency Bands: ANSI C63.10 Subclause -11.12.1

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



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# 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 – Chamber 1)

| Equip. ID | Description | Manufacturer | Model Number | Last Cal. | Next Cal. |
|---|---|---|---|---|---|
| | **1-10 GHz** | | | | |
| AT0072 | Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz | ETS Lindgren | 3117 | 2022-05-11 | 2023-05-11 |
| | **Gain-Loss Chains** | | | | |
| C1-SAC03 | Gain-loss string: 1-18GHz | Various | Various | 2022-05-05 | 2023-05-05 |
| | **Receiver & Software** | | | | |
| 197954 | Spectrum Analyzer | Rohde & Schwarz | ESW44 | 2022-04-14 | 2023-04-14 |
| SOFTEMI | EMI Software | UL | Version 9.5 (18 Oct 2021) | | |
| | **Additional Equipment used** | | | | |
| HI0096 | Environmental Meter | Fisher Scientific | 14-650-118 s/n 181562858 | 2022-09-26 | 2023-09-26 |



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

| Equip. ID | Description | Manufacturer/Brand | Model Number | Last Cal. | Next Cal. |
|---|---|---|---|---|---|
| | **30-1000 MHz** | | | | |
| **AT0073 | Hybrid Broadband Antenna | Sunol Sciences Corp. | JB3 | 2021-08-30 | 2022-08-30 |
| ***AT0074 | Hybrid Broadband Antenna | Sunol Sciences Corp. | JB3 | 2022-09-07 | 2023-09-07 |
| | **1-10 GHz** | | | | |
| 206211 | Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz | ETS Lindgren | 3117 | 2022-03-21 | 2023-03-21 |
| | **Gain-Loss Chains** | | | | |
| C2-SAC02 | Gain-loss string: 25-1000MHz | Various | Various | 2022-05-10 | 2023-05-10 |
| C2-SAC03 | Gain-loss string: 1-18GHz | Various | Various | 2022-05-10 | 2023-05-10 |
| | **Receiver & Software** | | | | |
| 197955 | Spectrum Analyzer | Rohde & Schwarz | ESW44 | 2022-03-08 | 2023-03-08 |
| SOFTEMI | EMI Software | UL | Version 9.5 (18 Oct 2021) | | |
| | **Additional Equipment used** | | | | |
| *200540 | Environmental Meter | Fisher Scientific | 15-077-963 (s/n 181474409) | 2021-09-27 | 2022-09-27 |
| HI0096 | Environmental Meter | Fisher Scientific | BRC17691 | 2022-09-26 | 2023-09-26 |
| HPF009 | 1GHz high-pass filter, 2W, $F_{high}$ =10GHz | Micro-Tronics | HPM17672 | 2022-02-17 | 2023-02-17 |
| BRF007 | 902-928MHz notch filter, 2W, $F_{high}$ =1.5GHz | Micro-Tronics | BRC17691 | 2022-05-27 | 2023-05-27 |

*NOTE: Testing on this environmental meter was performed on 2022-08-15, prior to calibration being out of date. All testing done on 2022-09-27 or later, was performed using Environmental Meter HI0096

**NOTE: Scan performed on this antenna (30-1000MHz, Streaming Mode: Low Channel) occurred on 2022-08-15. This occurred while AT0073 was still in calibration.

***NOTE: Scans performed on this antenna (30-1000MHz, Streaming Mode: Mid/High Channel, Wiselink Mode: Low/Mid/High Channel) occurred on 2022-10-04. This occurred while AT0074 was still in calibration.



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

| Equip. ID | Description | Manufacturer/Brand | Model Number | Last Cal. | Next Cal. |
|---|---|---|---|---|---|
| | **0.009-30MHz** | | | | |
| AT0079 | Active Loop Antenna | ETS-Lindgren | 6502 | 2022-09-12 | 2023-09-12 |
| | **1-10 GHz** | | | | |
| AT0067 | Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz | ETS Lindgren | 3117 | 2022-05-24 | 2023-05-24 |
| | **Gain-Loss Chains** | | | | |
| C4-SAC01 | Gain-loss string: 0.009-30MHz | Various | Various | 2022-05-20 | 2023-05-20 |
| C4-SAC03 | Gain-loss string: 1-18GHz | Various | Various | 2022-05-20 | 2023-05-20 |
| | **Receiver & Software** | | | | |
| 206496 | Spectrum Analyzer | Rohde & Schwarz | ESW44 | 2022-02-15 | 2023-02-15 |
| SOFTEMI | EMI Software | UL | Version 9.5 (18 Oct 2021) | | |
| | **Additional Equipment used** | | | | |
| 21642 | Environmental Meter | Fisher Scientific | 15-077-963 (s/n 210701692) | 2021-08-16 | 2023-08-16 |
| BRF007 | 902-928MHz notch filter, 2W, $F_{high}$ =1.5GHz | Micro-Tronics | BRC17691 | 2022-05-27 | 2023-05-27 |
| HPF009 | 1GHz high-pass filter, 2W, $F_{high}$ =10GHz | Micro-Tronics | HPM17672 | 2022-02-17 | 2023-02-17 |

# 9. ON TIME AND DUTY CYCLE

## LIMITS

None; for reporting purposes only.

## PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method.

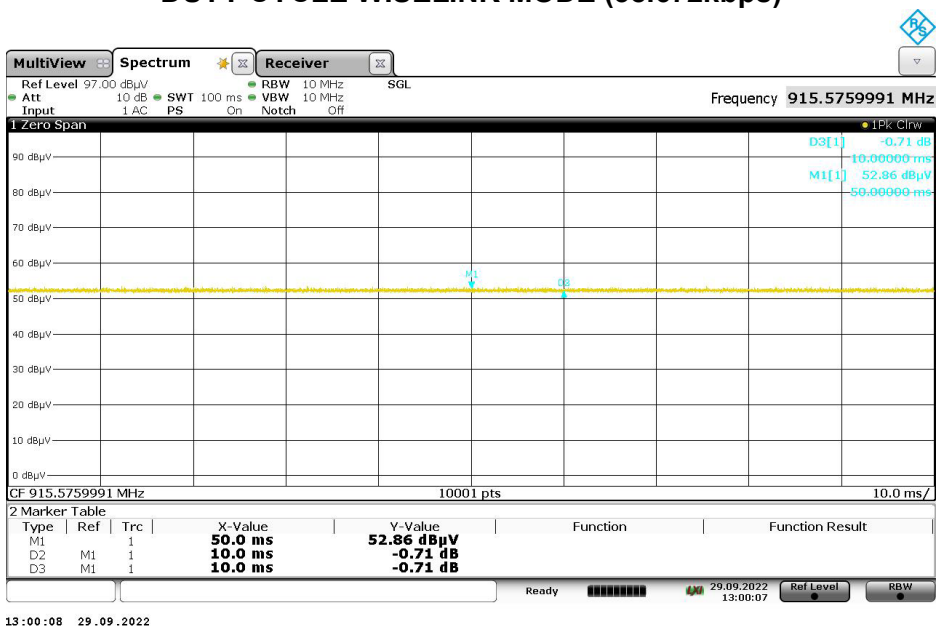
ANSI C63.10 Subclause 11.6

## 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) |
|---|---|---|---|---|---|---|
| **900 MHz Band** | | | | | | |
| Wiselink (38.672kbps) | 10.00 | 10.00 | 1.000 | 100.00% | 0.00 | 0.010 |
| Streaming (300kbps) | 10.000 | 10.000 | 1.000 | 100.00% | 0.00 | 0.010 |

## DUTY CYCLE PLOT

**DUTY CYCLE WISELINK MODE (38.672kbps)**




NOTE: Wiselink mode duty cycle was performed on 2022-09-29 in Chamber 1 and was tested by 88117/11993. See equipment list above for Chamber 1 equipment information.



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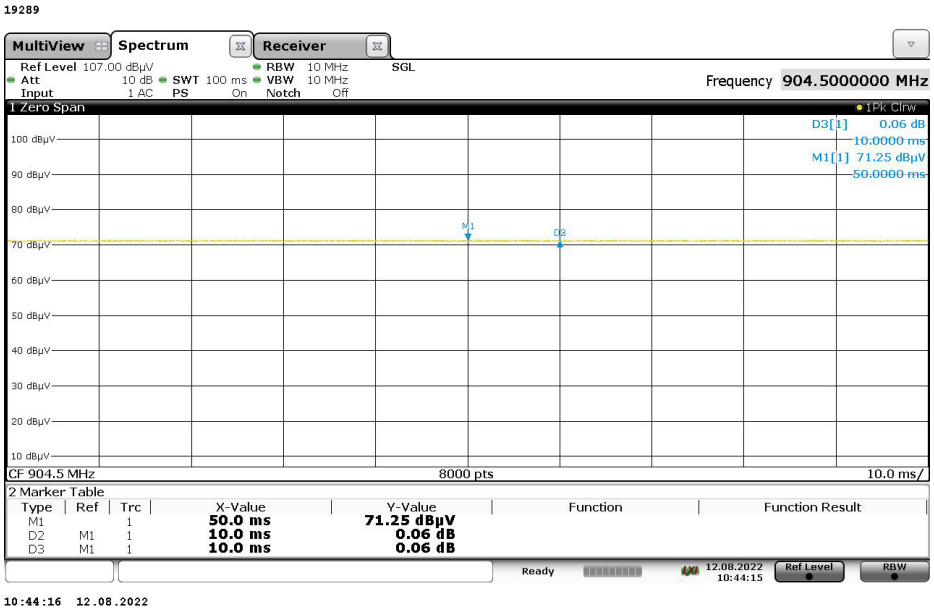
**DUTY CYCLE STREAMING MODE (300kbps)**




NOTE: Streaming mode duty cycle was performed on 2022-08-12 in Chamber 4 and was tested by: 85501/11993. See equipment list above for Chamber 4 equipment information.

# 10. RADIATED TEST RESULTS

## 10.1. LIMITS AND PROCEDURE

**LIMITS**

FCC §15.205 and §15.209

| Frequency Range (MHz) | Field Strength Limit (uA/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 |

RSS-GEN, Section 8.9 and 8.10.

| Frequency Range (MHz) | Field Strength Limit (uA/m) at 3 m | Field Strength Limit (dBuA/m) at 3 m |
|---|---|---|
| 0.009-0.490 | 6.37/F(kHz) @ 300 m | - |
| 0.490-1.705 | 63.7/F(kHz) @ 30 m | - |
| 1.705 - 30 | 0.08 @ 30m | - |
| **Frequency Range (MHz)** | **Field Strength Limit (uV/m) at 3 m** | **Field Strength Limit (dBuV/m) at 3 m** |
| 30 - 88 | 100 | 40 |
| 88 - 216 | 150 | 43.5 |
| 216 - 960 | 200 | 46 |
| Above 960 | 500 | 54 |

**TEST PROCEDURE**

The EUT is placed on a non-conducting table 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 3 MHz for peak measurements.



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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. Linear Voltage Averaging was used.

The spectrum from 30MHz to 1000MHz, and 1 GHz to 10GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band. Below 30MHz emissions, the channel with the highest power spectral density 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.



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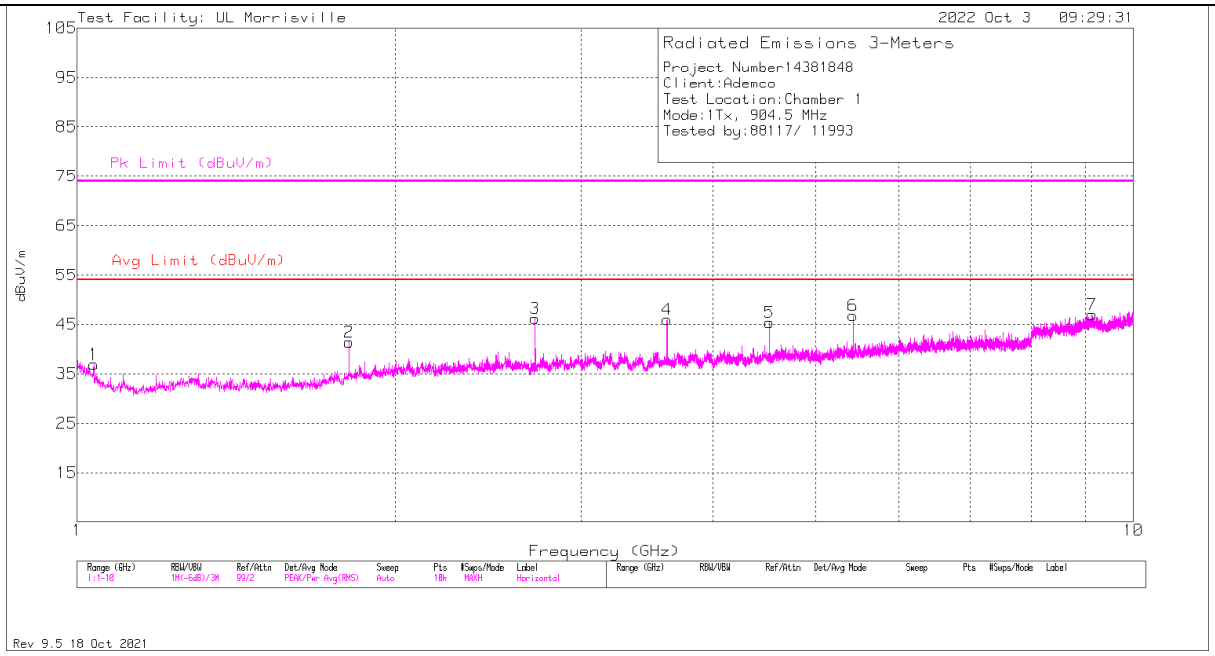
## 10.2. TRANSMITTER ABOVE 1 GHz

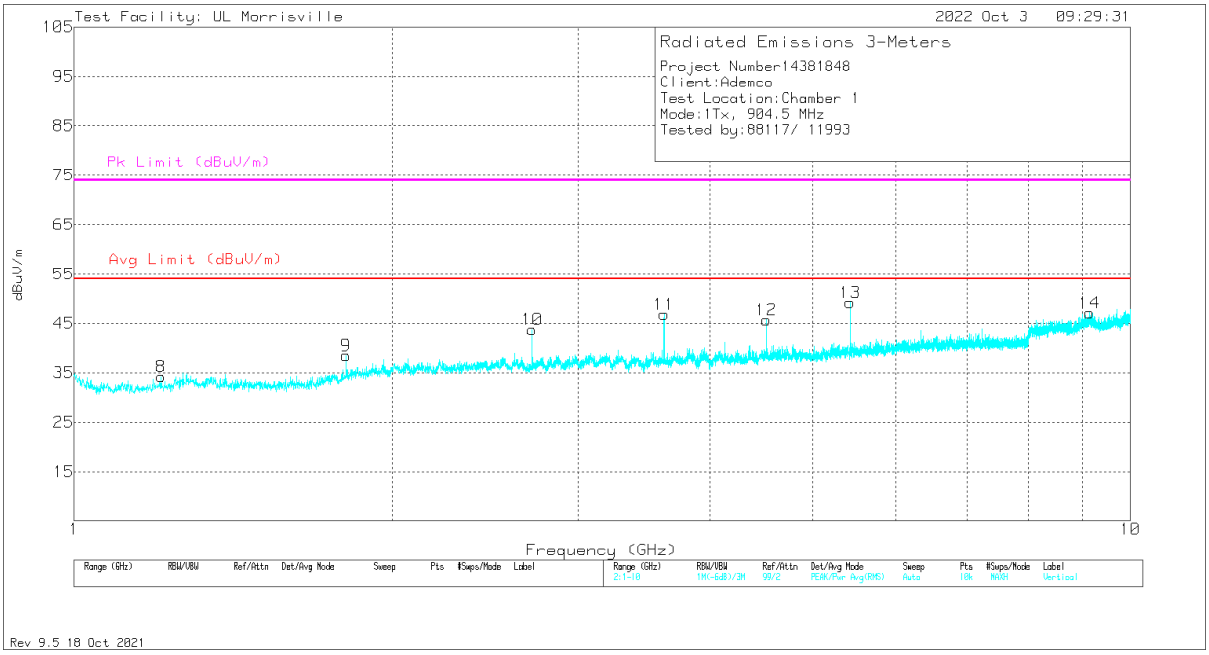
### 10.2.1. Wiselink Mode (38.672kbps)

**TX HARMONICS AND SPURIOUS EMISSIONS**

**LOW CHANNEL RESULTS**




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Gain/Loss (dB) | Filter (dB) | Corrected Reading dBuV/m | Avg Limit (dBuV/m) | Margin (dB) | Pk Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * ** 1.0369 | 43.91 | Pk | 27.1 | -35.6 | 1.5 | 36.91 | 54 | -17.09 | 74 | -37.09 | 0-360 | 100 | H |
| 2 | ** 1.8091 | 46.87 | Pk | 30.5 | -36.3 | .4 | 41.47 | 54 | -12.23 | 74 | -32.23 | 0-360 | 300 | H |
| 3 | * ** 2.7136 | 49.74 | Pk | 32.2 | -36.1 | .4 | 46.24 | 54 | -7.76 | 74 | -27.76 | 0-360 | 100 | H |
| 4 | * ** 3.6181 | 47.31 | Pk | 33.1 | -34.5 | .1 | 46.01 | 54 | -7.99 | 74 | -27.99 | 0-360 | 100 | H |
| 5 | * ** 4.5217 | 43.22 | Pk | 33.9 | -32.1 | .4 | 45.42 | 54 | -8.58 | 74 | -28.58 | 0-360 | 100 | H |
| 6 | * ** 5.4262 | 44.11 | Pk | 34.6 | -32.1 | .2 | 46.81 | 54 | -7.19 | 74 | -27.19 | 0-360 | 200 | H |
| 7 | * ** 9.1351 | 36.8 | Pk | 36.2 | -26.5 | .5 | 47 | 54 | -7 | 74 | -27 | 0-360 | 300 | H |
| 8 | * ** 1.2088 | 41.06 | Pk | 28.5 | -35.9 | .6 | 34.26 | 54 | -19.74 | 74 | -39.74 | 0-360 | 400 | V |
| 9 | ** 1.8091 | 43.87 | Pk | 30.5 | -36.3 | .4 | 38.47 | 54 | -15.53 | 74 | -35.53 | 0-360 | 200 | V |
| 10 | * ** 2.7136 | 47.26 | Pk | 32.2 | -36.1 | .4 | 43.76 | 54 | -10.24 | 74 | -30.24 | 0-360 | 400 | V |
| 11 | * ** 3.6181 | 48.16 | Pk | 33.1 | -34.5 | .1 | 46.86 | 54 | -7.14 | 74 | -27.14 | 0-360 | 400 | V |
| 12 | * ** 4.5226 | 43.56 | Pk | 33.9 | -32.1 | .4 | 45.76 | 54 | -8.24 | 74 | -28.24 | 0-360 | 200 | V |
| 13 | * ** 5.42694 | 49.51 | PK2 | 34.6 | -32.1 | .2 | 52.21 | - | - | 74 | -21.79 | 256 | 217 | V |
|  | * ** 5.42767 | 42.82 | ADV | 34.6 | -32.1 | .2 | 45.52 | 54 | -8.48 | - | - | 256 | 217 | V |
| 14 | * ** 9.1486 | 37.2 | Pk | 36.2 | -26.6 | .4 | 47.2 | 54 | -6.8 | 74 | -26.8 | 0-360 | 200 | 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



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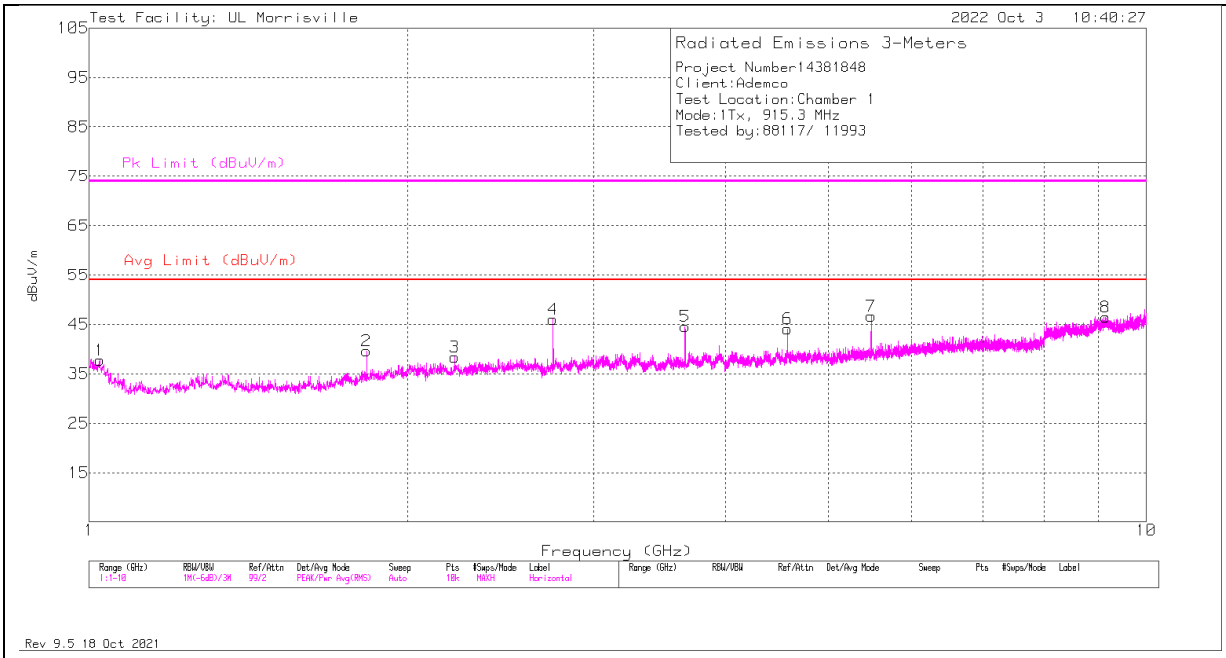
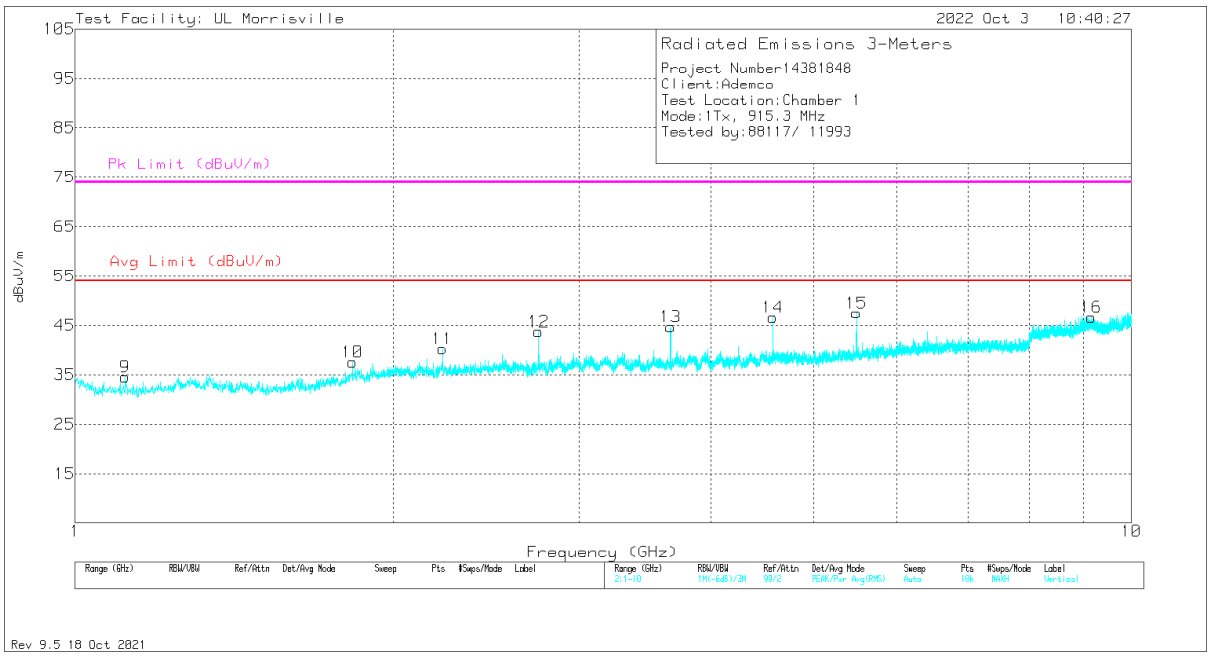
## MID CHANNEL RESULTS




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Gain/Loss (dB) | Filter (dB) | Corrected Reading dBuV/m | Avg Limit (dBuV/m) | Margin (dB) | Pk Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * ** 1.0234 | 44.08 | Pk | 27.3 | -35.5 | 1.9 | 37.78 | 54 | -16.22 | 74 | -36.22 | 0-360 | 100 | H |
| 2 | ** 1.8298 | 44.54 | Pk | 30.8 | -36.2 | .5 | 39.64 | 54 | -14.36 | 74 | -34.36 | 0-360 | 100 | H |
| 3 | * ** 2.2168 | 42.11 | Pk | 32 | -36 | .3 | 38.41 | 54 | -15.59 | 74 | -35.59 | 0-360 | 200 | H |
| 4 | * ** 2.746 | 49.15 | Pk | 32.4 | -36 | .5 | 46.05 | 54 | -7.95 | 74 | -27.95 | 0-360 | 100 | H |
| 5 | * ** 3.6604 | 45.17 | Pk | 33.2 | -34.3 | .5 | 44.57 | 54 | -9.43 | 74 | -29.43 | 0-360 | 100 | H |
| 6 | * ** 4.5757 | 42.22 | Pk | 34.1 | -32.4 | .2 | 44.12 | 54 | -9.88 | 74 | -29.88 | 0-360 | 300 | H |
| 8 | * ** 9.1504 | 36.49 | Pk | 36.2 | -26.6 | .4 | 46.49 | 54 | -7.51 | 74 | -27.51 | 0-360 | 100 | H |
| 9 | * ** 1.1152 | 41.5 | Pk | 27.8 | -35.6 | .9 | 34.6 | 54 | -19.4 | 74 | -39.4 | 0-360 | 200 | V |
| 10 | ** 1.8307 | 42.4 | Pk | 30.8 | -36.1 | .5 | 37.6 | 54 | -16.4 | 74 | -36.4 | 0-360 | 200 | V |
| 11 | * ** 2.2276 | 43.99 | Pk | 32 | -36.1 | .4 | 40.29 | 54 | -13.71 | 74 | -33.71 | 0-360 | 400 | V |
| 12 | * ** 2.746 | 46.83 | Pk | 32.4 | -36 | .5 | 43.73 | 54 | -10.27 | 74 | -30.27 | 0-360 | 400 | V |
| 13 | * ** 3.6613 | 45.31 | Pk | 33.2 | -34.3 | .5 | 44.71 | 54 | -9.29 | 74 | -29.29 | 0-360 | 400 | V |
| 14 | * ** 4.5766 | 44.74 | Pk | 34.1 | -32.4 | .2 | 46.64 | 54 | -7.36 | 74 | -27.36 | 0-360 | 200 | V |
| 16 | * ** 9.1639 | 36.8 | Pk | 36.2 | -26.7 | .4 | 46.7 | 54 | -7.3 | 74 | -27.3 | 0-360 | 400 | V |
| 7 | 5.491 | 43.61 | Pk | 34.6 | -31.9 | .4 | 46.71 | - | - | - | - | 0-360 | 200 | H |
| 15 | 5.4919 | 44.52 | Pk | 34.6 | -31.9 | .3 | 47.52 | - | - | - | - | 0-360 | 400 | V |

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



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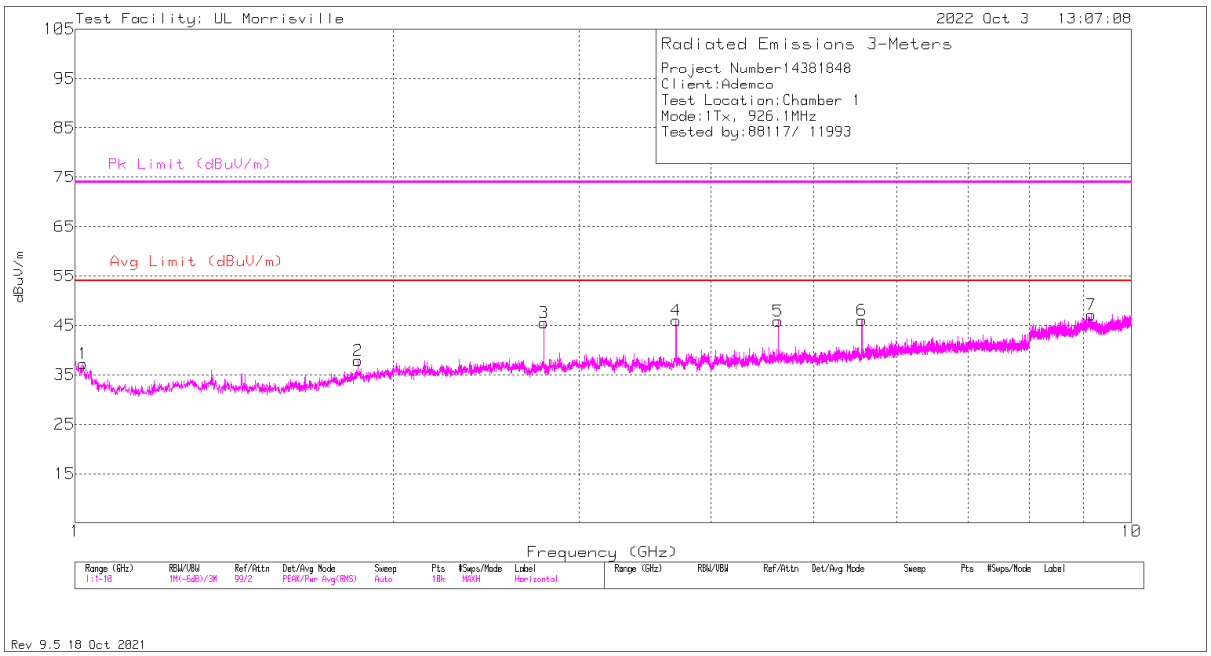
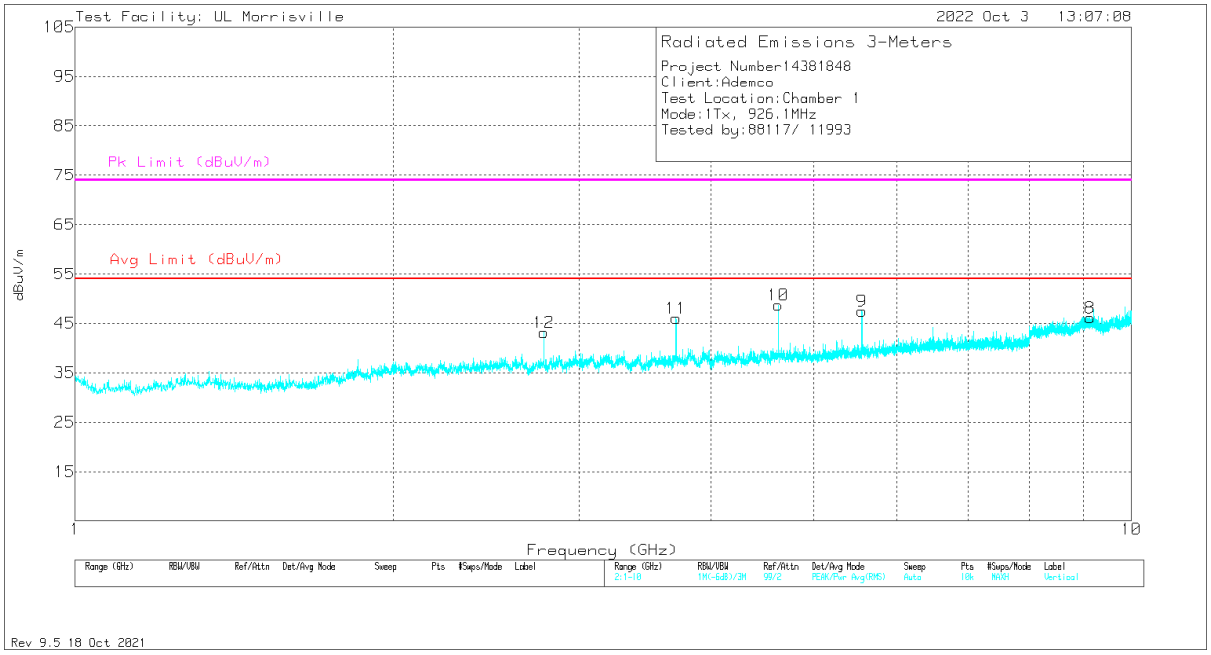
## HIGH CHANNEL RESULTS




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Gain/Loss (dB) | Filter (dB) | Corrected Reading dBuV/m | Avg Limit (dBuV/m) | Margin (dB) | Pk Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * ** 1.0171 | 43.28 | Pk | 27.4 | -35.5 | 2.1 | 37.28 | 54 | -16.72 | 74 | -36.72 | 0-360 | 100 | H |
| 2 | ** 1.8523 | 42.69 | Pk | 31.1 | -36.3 | .4 | 37.89 | 54 | -16.11 | 74 | -36.11 | 0-360 | 100 | H |
| 3 | * ** 2.7784 | 48.43 | Pk | 32.5 | -35.9 | .5 | 45.53 | 54 | -8.47 | 74 | -28.47 | 0-360 | 100 | H |
| 4 | * ** 3.7045 | 46.03 | Pk | 33.3 | -33.9 | .6 | 46.03 | 54 | -7.97 | 74 | -27.97 | 0-360 | 100 | H |
| 5 | * ** 4.6297 | 43.71 | Pk | 34.1 | -32.4 | .5 | 45.91 | 54 | -8.09 | 74 | -28.09 | 0-360 | 300 | H |
| 7 | * ** 9.1603 | 37.36 | Pk | 36.2 | -26.8 | .4 | 47.16 | 54 | -6.84 | 74 | -26.84 | 0-360 | 100 | H |
| 8 | * ** 9.1351 | 35.92 | Pk | 36.2 | -26.5 | .5 | 46.12 | 54 | -7.88 | 74 | -27.88 | 0-360 | 300 | V |
| 10 | * ** 4.63033 | 47.56 | PK2 | 34.1 | -32.4 | .5 | 49.76 | - | - | 74 | -24.24 | 122 | 202 | V |
|  | * ** 4.63 | 39.7 | ADV | 34.1 | -32.4 | .5 | 41.9 | 54 | -12.1 | - | - | 122 | 202 | V |
| 11 | * ** 3.7045 | 46.04 | Pk | 33.3 | -33.9 | .6 | 46.04 | 54 | -7.96 | 74 | -27.96 | 0-360 | 400 | V |
| 12 | * ** 2.7775 | 46.07 | Pk | 32.5 | -35.9 | .5 | 43.17 | 54 | -10.83 | 74 | -30.83 | 0-360 | 400 | V |
| 9 | 5.5558 | 44.28 | Pk | 34.7 | -31.7 | .2 | 47.48 | - | - | - | - | 0-360 | 200 | V |
| 6 | 5.5576 | 42.77 | Pk | 34.7 | -31.6 | .2 | 46.07 | - | - | - | - | 0-360 | 200 | H |

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



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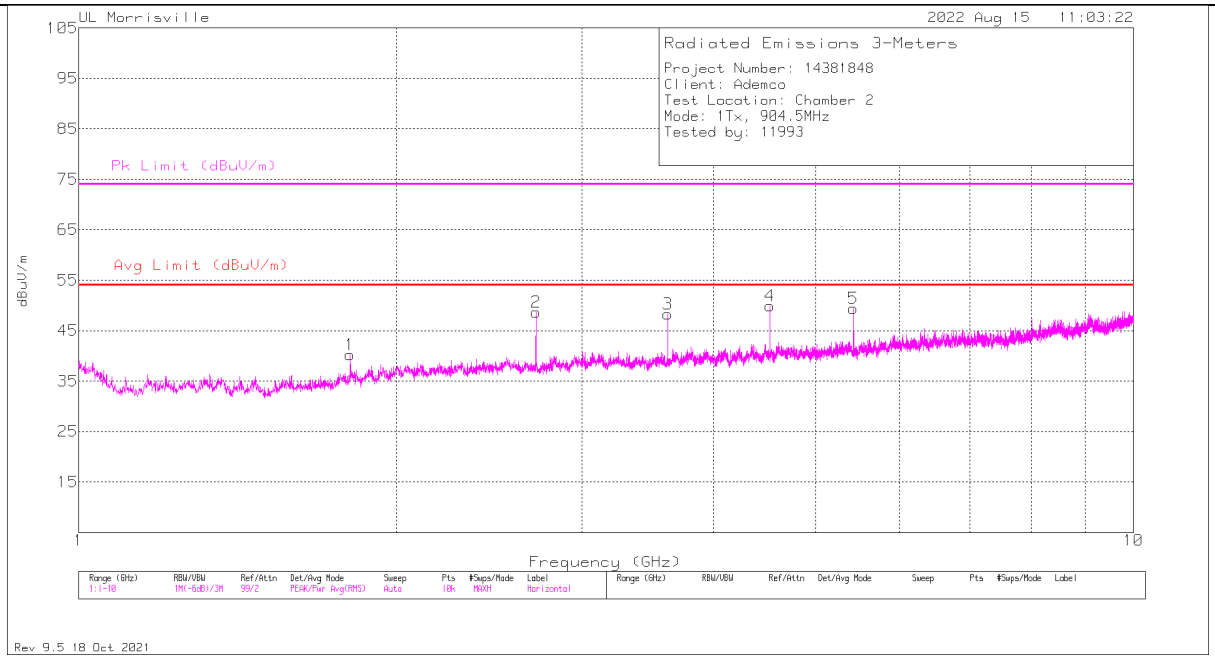
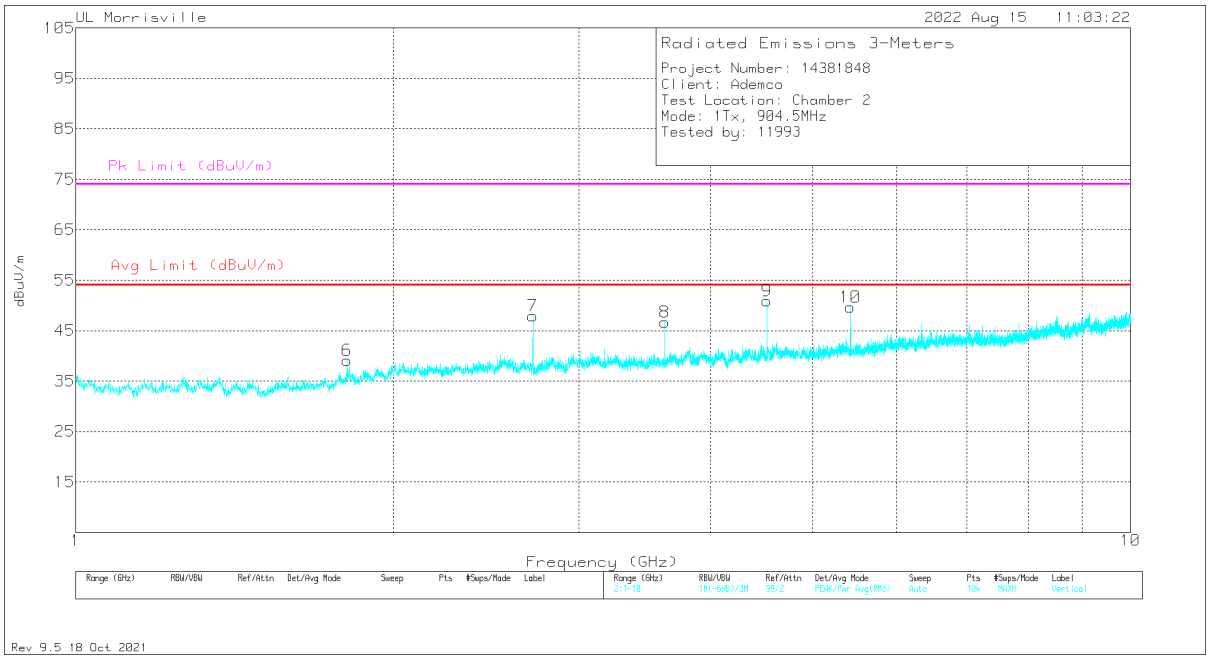
### 10.2.2. Streaming Mode (300kbps)

## TX HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL RESULTS




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 206211 (dB/m) | Gain/Loss (dB) | Filter (dB) | Corrected Reading dBuV/m | Avg Limit (dBuV/m) | Margin (dB) | Pk Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ** 1.8091 | 44.01 | Pk | 30 | -34.2 | .4 | 40.21 | 54 | -13.79 | 74 | -33.79 | 0-360 | 101 | H |
| 2 | * ** 2.71379 | 52.77 | PK2 | 31.7 | -34 | .4 | 50.87 | - | - | 74 | -23.13 | 242 | 108 | H |
| | * ** 2.71339 | 49.13 | ADV | 31.7 | -34 | .4 | 47.23 | 54 | -6.77 | - | - | 242 | 108 | H |
| 3 | * ** 3.61828 | 49.76 | PK2 | 33 | -33.2 | .1 | 49.66 | - | - | 74 | -24.34 | 160 | 119 | H |
| | * ** 3.6182 | 44.13 | ADV | 33 | -33.2 | .1 | 44.03 | 54 | -9.97 | - | - | 160 | 119 | H |
| 4 | * ** 4.52298 | 49.95 | PK2 | 34 | -32.1 | .4 | 52.25 | - | - | 74 | -21.75 | 98 | 302 | H |
| | * ** 4.52274 | 43.8 | ADV | 34 | -32.2 | .4 | 46 | 54 | -8 | - | - | 98 | 302 | H |
| 5 | * ** 5.42762 | 47.36 | PK2 | 34.4 | -30.8 | .2 | 51.16 | - | - | 74 | -22.84 | 116 | 343 | H |
| | * ** 5.42639 | 39.95 | ADV | 34.4 | -30.8 | .2 | 43.75 | 54 | -10.25 | - | - | 116 | 343 | H |
| 6 | ** 1.8091 | 42.88 | Pk | 30 | -34.2 | .4 | 39.08 | 54 | -14.92 | 74 | -34.92 | 0-360 | 200 | V |
| 7 | * ** 2.7127 | 49.67 | Pk | 31.7 | -33.9 | .4 | 47.87 | 54 | -6.13 | 74 | -26.13 | 0-360 | 400 | V |
| 8 | * ** 3.6172 | 46.81 | Pk | 33 | -33.2 | .1 | 46.71 | 54 | -7.29 | 74 | -27.29 | 0-360 | 300 | V |
| 9 | * ** 4.52303 | 49.85 | PK2 | 34 | -32.1 | .4 | 52.15 | - | - | 74 | -21.85 | 85 | 104 | V |
| | * ** 4.5227 | 43.74 | ADV | 34 | -32.2 | .4 | 45.94 | 54 | -8.06 | - | - | 85 | 104 | V |
| 10 | * ** 5.42632 | 48.58 | PK2 | 34.4 | -30.8 | .2 | 52.38 | - | - | 74 | -21.62 | 89 | 250 | V |
| | * ** 5.42646 | 41.7 | ADV | 34.4 | -30.8 | .2 | 45.5 | 54 | -8.5 | - | - | 89 | 250 | 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
ADV - Linear Voltage Average



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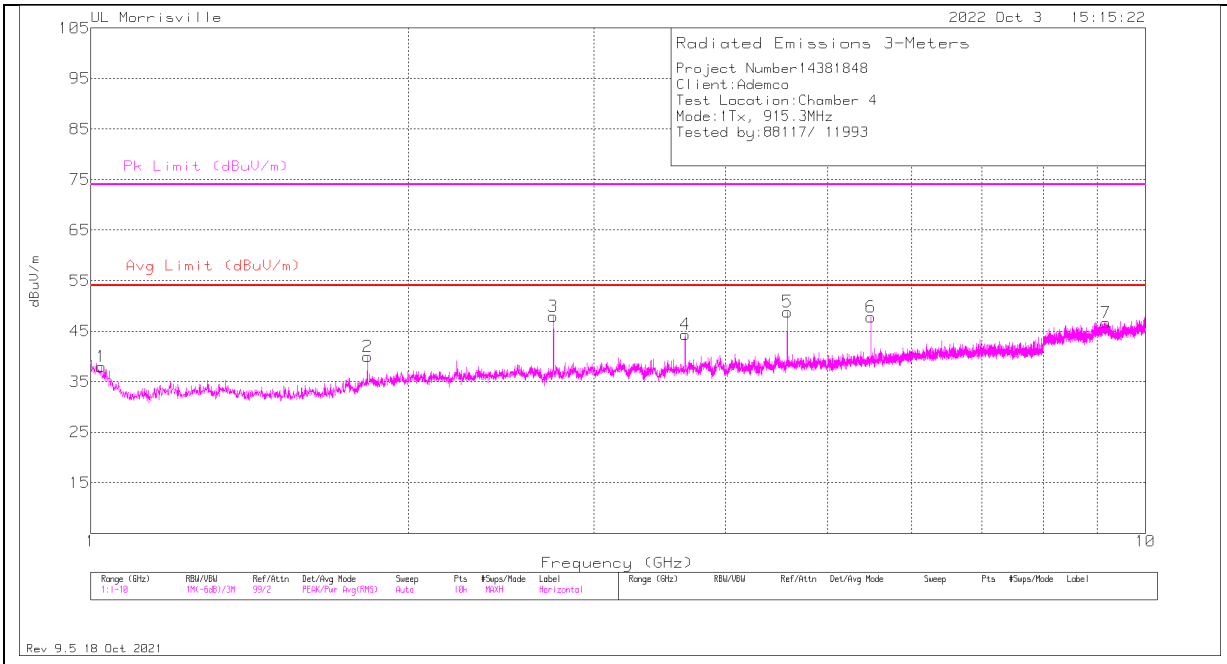
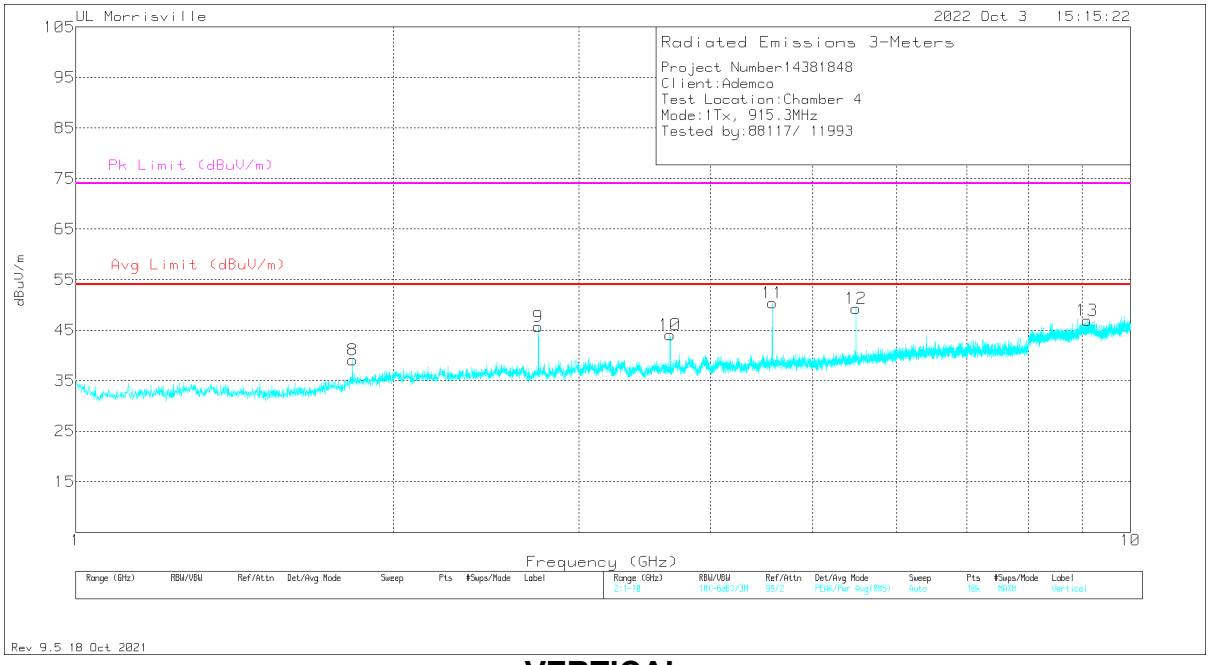
## MID CHANNEL RESULTS




**HORIZONTAL**




**VERTICAL**



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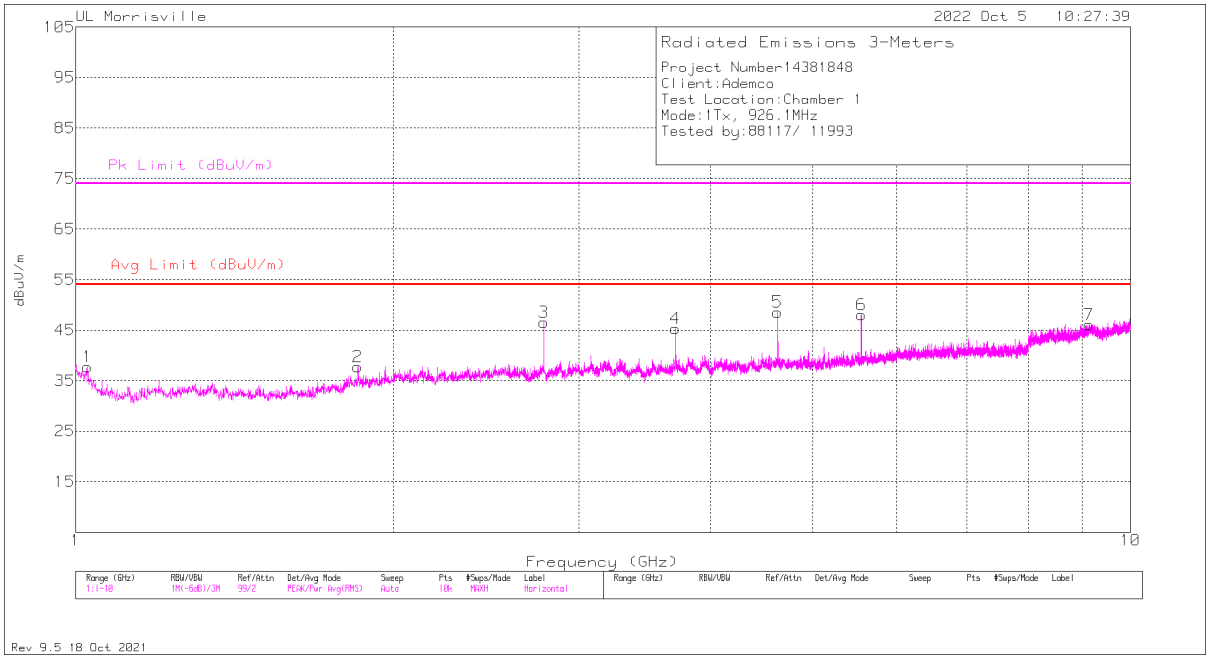
## RADIATED EMISSIONS

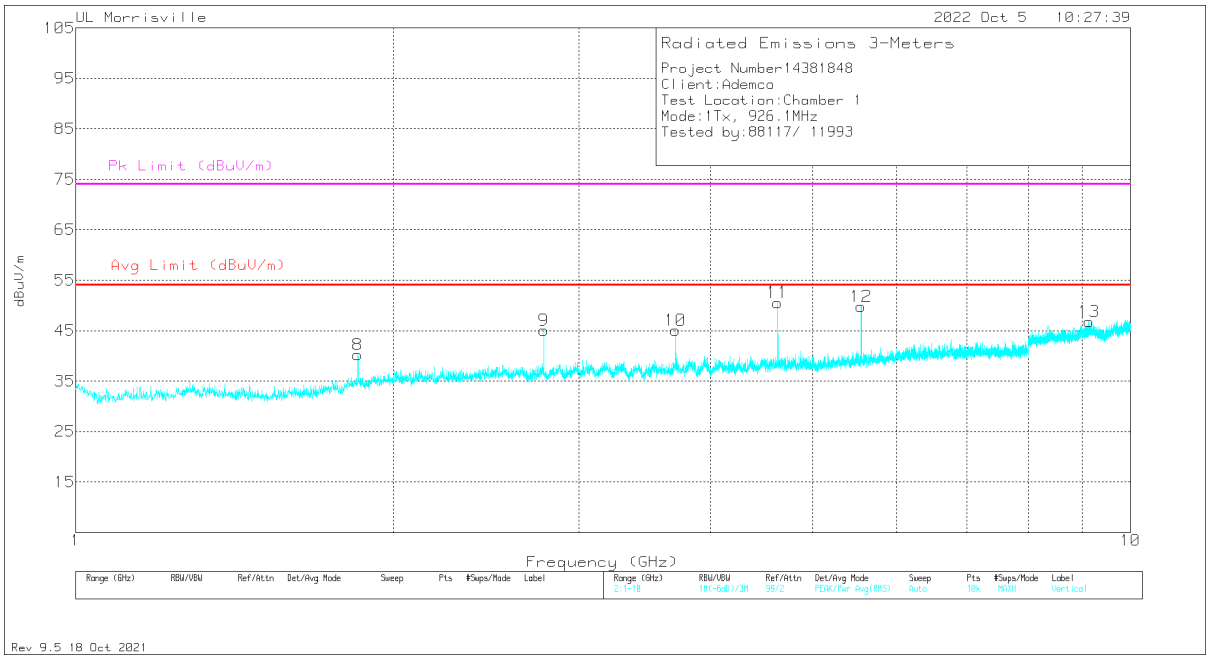
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Gain/Loss (dB) | Filter (dB) | Corrected Reading dBuV/m | Avg Limit (dBuV/m) | Margin (dB) | Pk Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * ** 1.0234 | 44.3 | Pk | 27.3 | -35.5 | 1.9 | 38 | 54 | -16 | 74 | -36 | 0-360 | 100 | H |
| 2 | ** 1.8307 | 44.74 | Pk | 30.8 | -36.1 | .5 | 39.94 | 54 | - 14.06 | 74 | -34.06 | 0-360 | 100 | H |
| 3 | * ** 2.746 | 51.01 | Pk | 32.4 | -36 | .5 | 47.91 | 54 | -6.09 | 74 | -26.09 | 0-360 | 100 | H |
| 4 | * ** 3.6613 | 44.98 | Pk | 33.2 | -34.3 | .5 | 44.38 | 54 | -9.62 | 74 | -29.62 | 0-360 | 100 | H |
| 5 | * ** 4.576 | 50.71 | PK2 | 34.1 | -32.4 | .2 | 52.61 | - | - | 74 | -21.39 | 90 | 100 | H |
|  | * ** 4.5768 | 44.65 | ADV | 34.1 | -32.4 | .2 | 46.55 | 54 | -7.45 | - | - | 90 | 100 | H |
| 7 | * ** 9.172 | 36.58 | Pk | 36.2 | -26.5 | .4 | 46.68 | 54 | -7.32 | 74 | -27.32 | 0-360 | 100 | H |
| 8 | ** 1.8298 | 43.95 | Pk | 30.8 | -36.2 | .5 | 39.05 | 54 | -14.95 | 74 | -34.95 | 0-360 | 200 | V |
| 9 | * ** 2.746 | 48.74 | Pk | 32.4 | -36 | .5 | 45.64 | 54 | -8.36 | 74 | -28.36 | 0-360 | 200 | V |
| 10 | * ** 3.6604 | 44.62 | Pk | 33.2 | -34.3 | .5 | 44.02 | 54 | -9.98 | 74 | -29.98 | 0-360 | 400 | V |
| 11 | * ** 4.57691 | 51.32 | PK2 | 34.1 | -32.4 | .2 | 53.22 | - | - | 74 | -20.78 | 241 | 244 | V |
|  | * ** 4.57621 | 45.54 | ADV | 34.1 | -32.4 | .2 | 47.44 | 54 | -6.56 | - | - | 241 | 244 | V |
| 13 | * ** 9.0928 | 36.72 | Pk | 36.2 | -26.6 | .6 | 46.92 | 54 | -7.08 | 74 | -27.08 | 0-360 | 200 | V |
| 12 | 5.491 | 46.18 | Pk | 34.6 | -31.9 | .4 | 49.28 | - | - | - | - | 0-360 | 200 | V |
| 6 | 5.4928 | 44.81 | Pk | 34.6 | -31.9 | .3 | 47.81 | - | - | - | - | 0-360 | 200 | H |

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

## HIGH CHANNEL RESULTS




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AT0067 (dB/m) | Gain/Loss (dB) | Filter (dB) | Corrected Reading dBuV/m | Avg Limit (dBuV/m) | Margin (dB) | Pk Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * ** 1.0261 | 44.19 | Pk | 27.2 | -35.5 | 1.8 | 37.69 | 54 | -16.31 | 74 | -36.31 | 0-360 | 100 | H |
| 2 | ** 1.8514 | 42.49 | Pk | 31.1 | -36.2 | .4 | 37.79 | 54 | -16.21 | 74 | -36.21 | 0-360 | 100 | H |
| 3 | * ** 2.7784 | 49.42 | Pk | 32.5 | -35.9 | .5 | 46.52 | 54 | -7.48 | 74 | -27.48 | 0-360 | 100 | H |
| 4 | * ** 3.7045 | 45.27 | Pk | 33.3 | -33.9 | .6 | 45.27 | 54 | -8.73 | 74 | -28.73 | 0-360 | 100 | H |
| 5 | * ** 4.63107 | 49.1 | PK2 | 34.1 | -32.4 | .5 | 51.3 | - | - | 74 | -22.7 | 266 | 391 | H |
|  | * ** 4.6308 | 42.74 | ADV | 34.1 | -32.4 | .5 | 44.94 | 54 | -9.06 | - | - | 266 | 391 | H |
| 7 | * ** 9.1369 | 35.84 | Pk | 36.2 | -26.4 | .4 | 46.04 | 54 | -7.96 | 74 | -27.96 | 0-360 | 200 | H |
| 8 | ** 1.8514 | 44.88 | Pk | 31.1 | -36.2 | .4 | 40.18 | - | - | - | - | 0-360 | 200 | V |
| 9 | * ** 2.7784 | 47.97 | Pk | 32.5 | -35.9 | .5 | 45.07 | 54 | -8.93 | 74 | -28.93 | 0-360 | 200 | V |
| 10 | * ** 3.7045 | 45.02 | Pk | 33.3 | -33.9 | .6 | 45.02 | 54 | -8.98 | 74 | -28.98 | 0-360 | 400 | V |
| 11 | * ** 4.63105 | 51.02 | PK2 | 34.1 | -32.4 | .5 | 53.22 | - | - | 74 | -20.78 | 244 | 237 | V |
|  | * ** 4.63083 | 44.67 | ADV | 34.1 | -32.4 | .5 | 46.87 | 54 | -7.13 | - | - | 244 | 237 | V |
| 13 | * ** 9.1414 | 36.61 | Pk | 36.2 | -26.4 | .4 | 46.81 | 54 | -7.19 | 74 | -27.19 | 0-360 | 400 | V |
| 12 | 5.5558 | 46.63 | Pk | 34.7 | -31.7 | .2 | 49.83 |  | - | - | - | 0-360 | 200 | V |
| 6 | 5.5567 | 44.83 | Pk | 34.7 | -31.7 | .2 | 48.03 |  | - | - | - | 0-360 | 200 | H |

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



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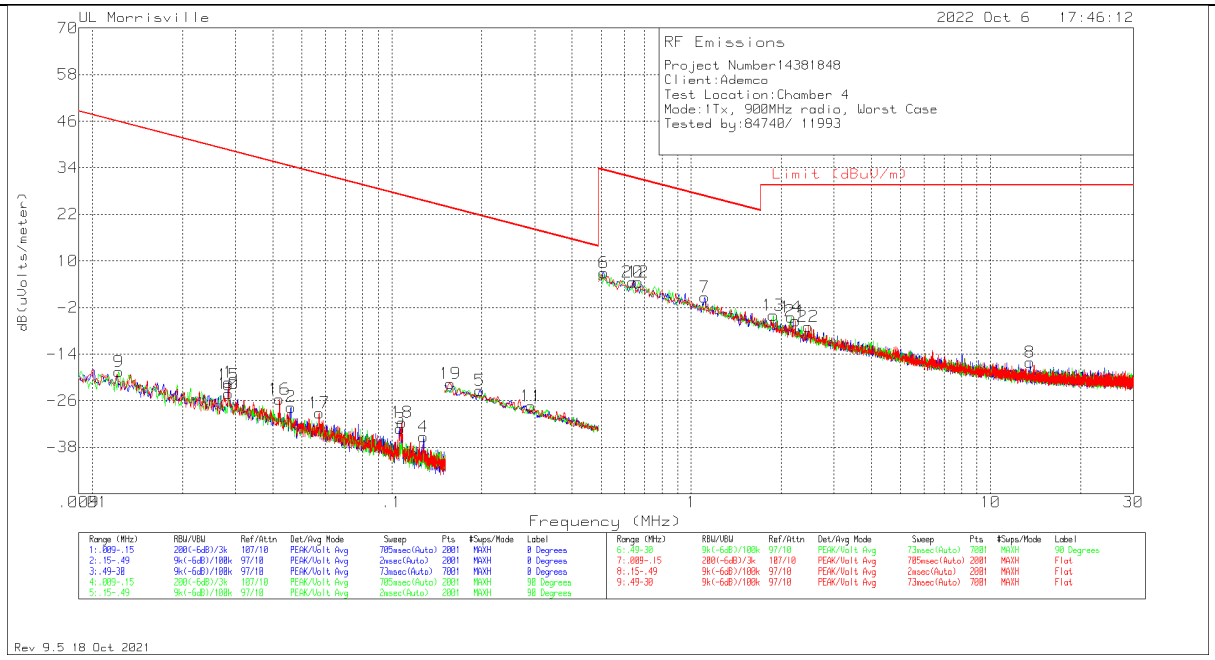
## 10.3. WORST CASE BELOW 30MHZ

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

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).

### 10.3.1. Wiselink Mode (38.672kbps)




**ANTENNA- THREE ORIENTATIONS – E FIELD**

## Below 30MHz Data E FIELD

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AT0079 (dB/m) | Gain/Loss (dB) | Dist. Corr. Factor (dB) | Corrected Reading dB(uVolts/meter) | QP/AV Limit (dBuV/m) | PK Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Loop Angle |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | .02853 | 45.27 | Pk | 13.5 | 0 | -80 | -21.23 | 38.5 | 58.5 | -59.73 | 0-360 | 400 | 0 degs |
| 2 | .04599 | 40.45 | Pk | 11.9 | 0 | -80 | -27.65 | 34.35 | 54.35 | -62 | 0-360 | 400 | 0 degs |
| 3 | .10684 | 35.65 | Pk | 11.1 | .1 | -80 | -33.15 | 27.03 | - | -60.18 | 0-360 | 400 | 0 degs |
| 4 | .12757 | 33.49 | Pk | 11.1 | .1 | -80 | -35.31 | 25.49 | 45.49 | -60.8 | 0-360 | 400 | 0 degs |
| 5 | .19701 | 45.4 | Pk | 11.1 | .1 | -80 | -23.4 | 21.71 | 41.71 | -45.11 | 0-360 | 400 | 0 degs |
| 6 | .51108 | 35.75 | Pk | 11.1 | .1 | -40 | 6.95 | 33.43 | - | -26.48 | 0-360 | 400 | 0 degs |
| 7 | 1.10975 | 29.12 | Pk | 11.4 | .2 | -40 | .72 | 26.7 | - | -25.98 | 0-360 | 400 | 0 degs |
| 8 | 13.5596 | 12.39 | Pk | 10.8 | .7 | -40 | -16.11 | 29.54 | - | -45.65 | 0-360 | 400 | 0 degs |
| 9 | .01227 | 44.08 | Pk | 17.4 | 0 | -80 | -18.52 | 45.83 | 65.83 | -64.35 | 0-360 | 400 | 90 degs |
| 10 | .02853 | 42.27 | Pk | 13.5 | 0 | -80 | -24.23 | 38.5 | 58.5 | -62.73 | 0-360 | 400 | 90 degs |
| 11 | .29263 | 41.5 | Pk | 11 | .1 | -80 | -27.4 | 18.28 | 38.28 | -45.68 | 0-360 | 400 | 90 degs |
| 12 | .66707 | 33.36 | Pk | 11.1 | .1 | -40 | 4.56 | 31.12 | - | -26.56 | 0-360 | 400 | 90 degs |
| 13 | 1.88128 | 24.41 | Pk | 11.4 | .2 | -40 | -3.99 | 29.54 | - | -33.53 | 0-360 | 400 | 90 degs |
| 14 | 2.15532 | 23.79 | Pk | 11.4 | .3 | -40 | -4.51 | 29.54 | - | -34.05 | 0-360 | 400 | 90 degs |
| 15 | .02853 | 44.62 | Pk | 13.5 | 0 | -80 | -21.88 | 38.5 | 58.5 | -60.38 | 0-360 | 400 | Flat |
| 16 | .04216 | 42.15 | Pk | 12.2 | 0 | -80 | -25.65 | 35.11 | 55.11 | -60.76 | 0-360 | 400 | Flat |
| 17 | .05714 | 39.07 | Pk | 11.7 | .1 | -80 | -29.13 | 32.47 | 52.47 | -61.6 | 0-360 | 400 | Flat |
| 18 | .10805 | 37.22 | Pk | 11.1 | .1 | -80 | -31.58 | 26.93 | - | -58.51 | 0-360 | 400 | Flat |
| 19 | .1568 | 47.19 | Pk | 11.1 | .1 | -80 | -21.61 | 23.7 | 43.7 | -45.31 | 0-360 | 400 | Flat |
| 20 | .63756 | 33.31 | Pk | 11.1 | .1 | -40 | 4.51 | 31.51 | - | -27 | 0-360 | 400 | Flat |
| 21 | 2.23121 | 22.8 | Pk | 11.4 | .3 | -40 | -5.5 | 29.54 | - | -35.04 | 0-360 | 400 | Flat |
| 22 | 2.45887 | 21.41 | Pk | 11.4 | .3 | -40 | -6.89 | 29.54 | - | -36.43 | 0-360 | 400 | Flat |

Pk - Peak detector



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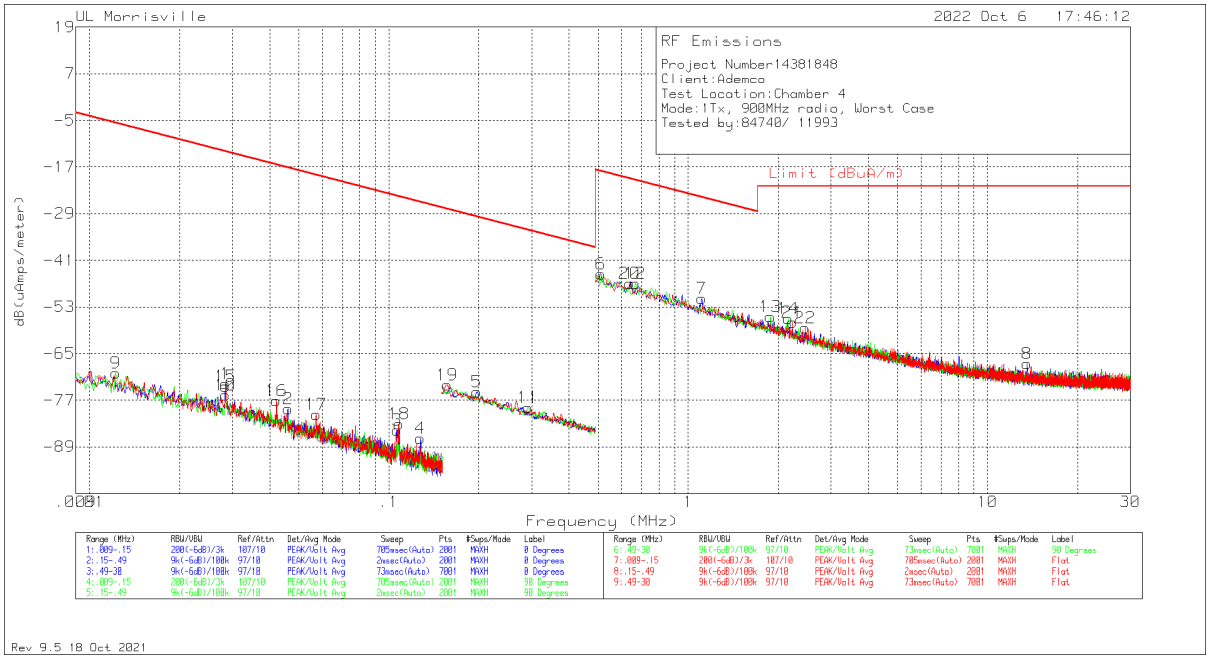


**ANTENNA- THREE ORIENTATIONS – H FIELD**

## Below 30MHz Data H FIELD

| Marker | Frequency (MHz) | Meter Reading (dBuA) | Det | AT0079 (dB/m) | Gain/Loss (dB) | Dist. Corr. Factor (dB) | Corrected Reading dB(uAmps/meter) | QP/AV Limit (dBuA/m) | PK Limit (dBuA/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Loop Angle |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | .02853 | 45.27 | Pk | -38 | 0 | -80 | -72.73 | -13 | 7 | -59.73 | 0-360 | 400 | 0 degs |
| 2 | .04599 | 40.45 | Pk | -39.6 | 0 | -80 | -79.15 | -17.15 | 2.85 | -62 | 0-360 | 400 | 0 degs |
| 3 | .10684 | 35.65 | Pk | -40.4 | .1 | -80 | -84.65 | -24.47 | - | -60.18 | 0-360 | 400 | 0 degs |
| 4 | .12757 | 33.49 | Pk | -40.4 | .1 | -80 | -86.81 | -26.01 | -6.01 | -60.8 | 0-360 | 400 | 0 degs |
| 5 | .19701 | 45.4 | Pk | -40.4 | .1 | -80 | -74.9 | -29.79 | -9.79 | -45.11 | 0-360 | 400 | 0 degs |
| 6 | .51108 | 35.75 | Pk | -40.4 | .1 | -40 | -44.55 | -18.07 | - | -26.48 | 0-360 | 400 | 0 degs |
| 7 | 1.10975 | 29.12 | Pk | -40.1 | .2 | -40 | -50.78 | -24.8 | - | -25.98 | 0-360 | 400 | 0 degs |
| 8 | 13.5596 | 12.39 | Pk | -40.7 | .7 | -40 | -67.61 | -21.96 | - | -45.65 | 0-360 | 400 | 0 degs |
| 9 | .01227 | 44.08 | Pk | -34.1 | 0 | -80 | -70.02 | -5.67 | 14.33 | -64.35 | 0-360 | 400 | 90 degs |
| 10 | .02853 | 42.27 | Pk | -38 | 0 | -80 | -75.73 | -13 | 7 | -62.73 | 0-360 | 400 | 90 degs |
| 11 | .29263 | 41.5 | Pk | -40.5 | .1 | -80 | -78.9 | -33.22 | -13.22 | -45.68 | 0-360 | 400 | 90 degs |
| 12 | .66707 | 33.36 | Pk | -40.4 | .1 | -40 | -46.94 | -20.38 | - | -26.56 | 0-360 | 400 | 90 degs |
| 13 | 1.88128 | 24.41 | Pk | -40.1 | .2 | -40 | -55.49 | -21.96 | - | -33.53 | 0-360 | 400 | 90 degs |
| 14 | 2.15532 | 23.79 | Pk | -40.1 | .3 | -40 | -56.01 | -21.96 | - | -34.05 | 0-360 | 400 | 90 degs |
| 15 | .02853 | 44.62 | Pk | -38 | 0 | -80 | -73.38 | -13 | 7 | -60.38 | 0-360 | 400 | Flat |
| 16 | .04216 | 42.15 | Pk | -39.3 | 0 | -80 | -77.15 | -16.39 | 3.61 | -60.76 | 0-360 | 400 | Flat |
| 17 | .05714 | 39.07 | Pk | -39.8 | .1 | -80 | -80.63 | -19.03 | 0.97 | -61.6 | 0-360 | 400 | Flat |
| 18 | .10805 | 37.22 | Pk | -40.4 | .1 | -80 | -83.08 | -24.57 | - | -58.51 | 0-360 | 400 | Flat |
| 19 | .1568 | 47.19 | Pk | -40.4 | .1 | -80 | -73.11 | -27.8 | -7.8 | -45.31 | 0-360 | 400 | Flat |
| 20 | .63756 | 33.31 | Pk | -40.4 | .1 | -40 | -46.99 | -19.99 | - | -27 | 0-360 | 400 | Flat |
| 21 | 2.23121 | 22.8 | Pk | -40.1 | .3 | -40 | -57 | -21.96 | - | -35.04 | 0-360 | 400 | Flat |
| 22 | 2.45887 | 21.41 | Pk | -40.1 | .3 | -40 | -58.39 | -21.96 | - | -36.43 | 0-360 | 400 | Flat |

Pk - Peak detector



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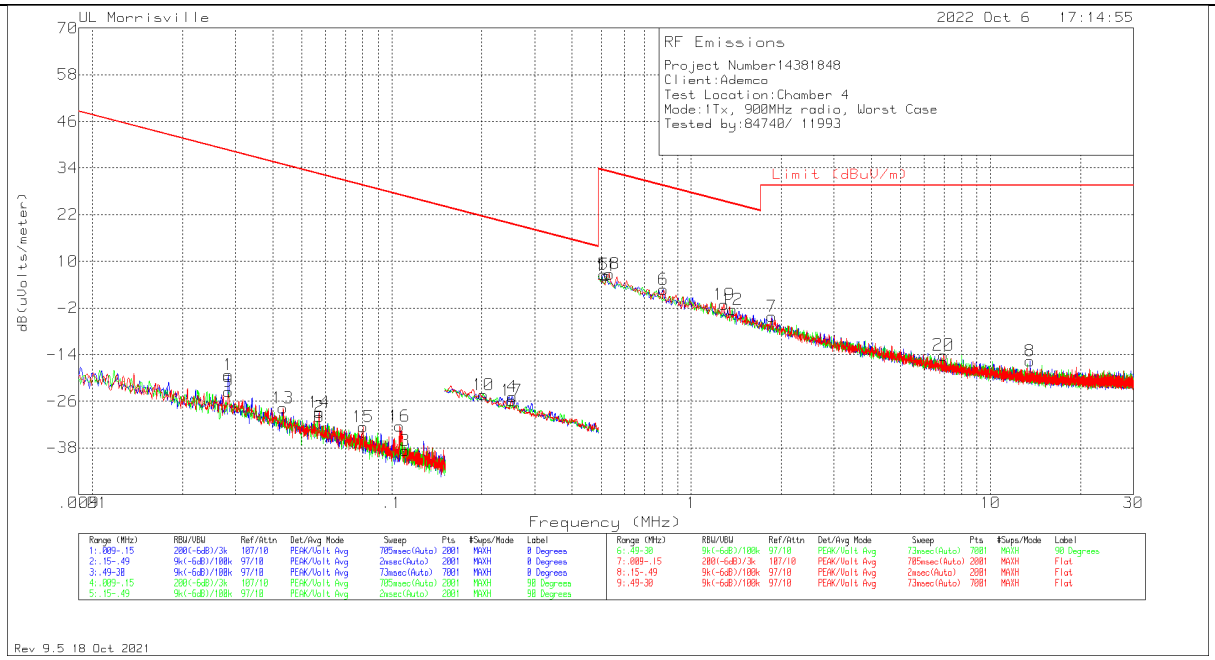
### 10.3.2. Streaming Mode (300kbps)




**ANTENNA- THREE ORIENTATIONS – E FIELD**

## Below 30MHz Data E FIELD

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AT0079 (dB/m) | Gain/Loss (dB) | Dist. Corr. Factor (dB) | Corrected Reading dB(uVolts/meter) | QP/AV Limit (dBuV/m) | PK Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Loop Angle |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | .02845 | 47.2 | Pk | 13.6 | 0 | -80 | -19.2 | 38.52 | 58.52 | -57.72 | 0-360 | 400 | 0 degs |
| 2 | .05721 | 38.24 | Pk | 11.7 | .1 | -80 | -29.96 | 32.46 | 52.46 | -62.42 | 0-360 | 400 | 0 degs |
| 3 | .1106 | 30.16 | Pk | 11.1 | .1 | -80 | -38.64 | 26.73 | 46.73 | -65.37 | 0-360 | 400 | 0 degs |
| 4 | .25226 | 44.05 | Pk | 11 | .1 | -80 | -24.85 | 19.57 | 39.57 | -44.42 | 0-360 | 400 | 0 degs |
| 5 | .51108 | 35.44 | Pk | 11.1 | .1 | -40 | 6.64 | 33.43 | - | -26.79 | 0-360 | 400 | 0 degs |
| 6 | .8062 | 31.47 | Pk | 11.1 | .2 | -40 | 2.77 | 29.48 | - | -26.71 | 0-360 | 400 | 0 degs |
| 7 | 1.8602 | 24.26 | Pk | 11.4 | .2 | -40 | -4.14 | 29.54 | - | -33.68 | 0-360 | 400 | 0 degs |
| 8 | 13.5596 | 12.84 | Pk | 10.8 | .7 | -40 | -15.66 | 29.54 | - | -45.2 | 0-360 | 400 | 0 degs |
| 9 | .02853 | 42.94 | Pk | 13.5 | 0 | -80 | -23.56 | 38.5 | 58.5 | -62.06 | 0-360 | 400 | 90 degs |
| 10 | .20253 | 44.48 | Pk | 11.1 | .1 | -80 | -24.32 | 21.47 | 41.47 | -45.79 | 0-360 | 400 | 90 degs |
| 11 | .51951 | 35.1 | Pk | 11.1 | .1 | -40 | 6.3 | 33.29 | - | -26.99 | 0-360 | 400 | 90 degs |
| 12 | 1.37114 | 26.02 | Pk | 11.4 | .2 | -40 | -2.38 | 24.86 | - | -27.24 | 0-360 | 400 | 90 degs |
| 13 | .04336 | 40.21 | Pk | 12.1 | 0 | -80 | -27.69 | 34.86 | 54.86 | -62.55 | 0-360 | 400 | Flat |
| 14 | .05714 | 39.27 | Pk | 11.7 | .1 | -80 | -28.93 | 32.47 | 52.47 | -61.4 | 0-360 | 400 | Flat |
| 15 | .08036 | 35.99 | Pk | 11.3 | .1 | -80 | -32.61 | 29.5 | 49.5 | -62.11 | 0-360 | 400 | Flat |
| 16 | .10634 | 36.44 | Pk | 11.1 | .1 | -80 | -32.36 | 27.07 | - | -59.43 | 0-360 | 400 | Flat |
| 17 | .25115 | 43.03 | Pk | 11 | .1 | -80 | -25.87 | 19.61 | 39.61 | -45.48 | 0-360 | 400 | Flat |
| 18 | .53216 | 35.52 | Pk | 11.1 | .1 | -40 | 6.72 | 33.08 | - | -26.36 | 0-360 | 400 | Flat |
| 19 | 1.28682 | 27.33 | Pk | 11.4 | .2 | -40 | -1.07 | 25.41 | - | -26.48 | 0-360 | 400 | Flat |
| 20 | 6.96999 | 14.3 | Pk | 11.1 | .5 | -40 | -14.1 | 29.54 | - | -43.64 | 0-360 | 400 | Flat |

Pk - Peak detector



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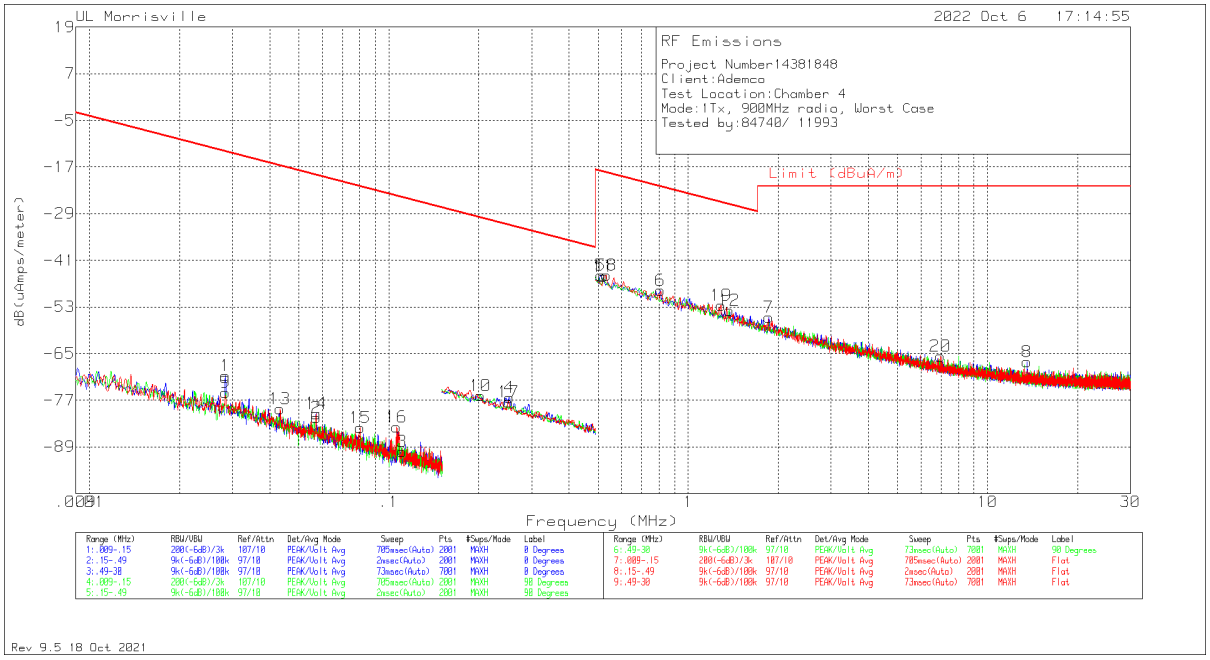


**ANTENNA- THREE ORIENTATIONS – H FIELD**

## Below 30MHz Data H FIELD

| Marker | Frequency (MHz) | Meter Reading (dBuA) | Det | AT0079 (dB/m) | Gain/Loss (dB) | Dist. Corr. Factor (dB) | Corrected Reading dB(uAmps/meter) | QP/AV Limit (dBuA/m) | PK Limit (dBuA/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Loop Angle |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | .02845 | 47.2 | Pk | -37.9 | 0 | -80 | -70.7 | -12.98 | 7.02 | -57.72 | 0-360 | 400 | 0 degs |
| 2 | .05721 | 38.24 | Pk | -39.8 | .1 | -80 | -81.46 | -19.04 | 0.96 | -62.42 | 0-360 | 400 | 0 degs |
| 3 | .1106 | 30.16 | Pk | -40.4 | .1 | -80 | -90.14 | -24.77 | -4.77 | -65.37 | 0-360 | 400 | 0 degs |
| 4 | .25226 | 44.05 | Pk | -40.5 | .1 | -80 | -76.35 | -31.93 | -11.93 | -44.42 | 0-360 | 400 | 0 degs |
| 5 | .51108 | 35.44 | Pk | -40.4 | .1 | -40 | -44.86 | -18.07 | - | -26.79 | 0-360 | 400 | 0 degs |
| 6 | .8062 | 31.47 | Pk | -40.4 | .2 | -40 | -48.73 | -22.02 | - | -26.71 | 0-360 | 400 | 0 degs |
| 7 | 1.8602 | 24.26 | Pk | -40.1 | .2 | -40 | -55.64 | -21.96 | - | -33.68 | 0-360 | 400 | 0 degs |
| 8 | 13.5596 | 12.84 | Pk | -40.7 | .7 | -40 | -67.16 | -21.96 | - | -45.2 | 0-360 | 400 | 0 degs |
| 9 | .02853 | 42.94 | Pk | -38 | 0 | -80 | -75.06 | -13 | 7 | -62.06 | 0-360 | 400 | 90 degs |
| 10 | .20253 | 44.48 | Pk | -40.4 | .1 | -80 | -75.82 | -30.03 | -10.03 | -45.79 | 0-360 | 400 | 90 degs |
| 11 | .51951 | 35.1 | Pk | -40.4 | .1 | -40 | -45.2 | -18.21 | - | -26.99 | 0-360 | 400 | 90 degs |
| 12 | 1.37114 | 26.02 | Pk | -40.1 | .2 | -40 | -53.88 | -26.64 | - | -27.24 | 0-360 | 400 | 90 degs |
| 13 | .04336 | 40.21 | Pk | -39.4 | 0 | -80 | -79.19 | -16.64 | 3.36 | -62.55 | 0-360 | 400 | Flat |
| 14 | .05714 | 39.27 | Pk | -39.8 | .1 | -80 | -80.43 | -19.03 | 0.97 | -61.4 | 0-360 | 400 | Flat |
| 15 | .08036 | 35.99 | Pk | -40.2 | .1 | -80 | -84.11 | -22 | -2 | -62.11 | 0-360 | 400 | Flat |
| 16 | .10634 | 36.44 | Pk | -40.4 | .1 | -80 | -83.86 | -24.43 | - | -59.43 | 0-360 | 400 | Flat |
| 17 | .25115 | 43.03 | Pk | -40.5 | .1 | -80 | -77.37 | -31.89 | -11.89 | -45.48 | 0-360 | 400 | Flat |
| 18 | .53216 | 35.52 | Pk | -40.4 | .1 | -40 | -44.78 | -18.42 | - | -26.36 | 0-360 | 400 | Flat |
| 19 | 1.28682 | 27.33 | Pk | -40.1 | .2 | -40 | -52.57 | -26.09 | - | -26.48 | 0-360 | 400 | Flat |
| 20 | 6.96999 | 14.3 | Pk | -40.4 | .5 | -40 | -65.6 | -21.96 | - | -43.64 | 0-360 | 400 | Flat |

Pk - Peak detector



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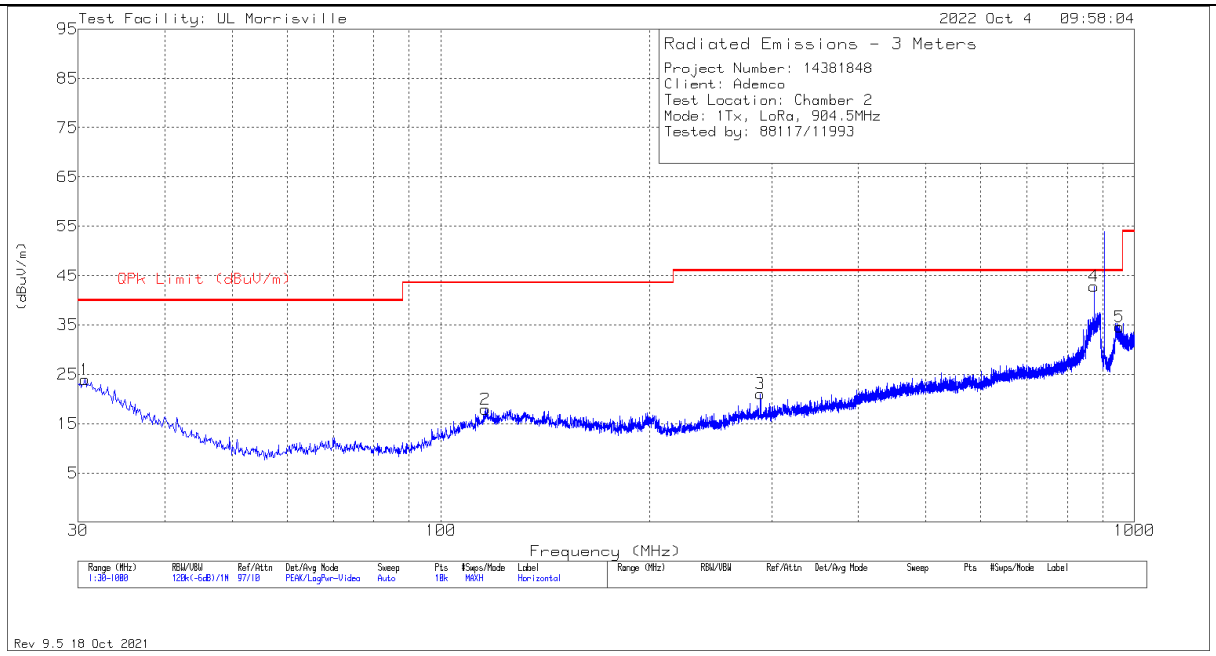
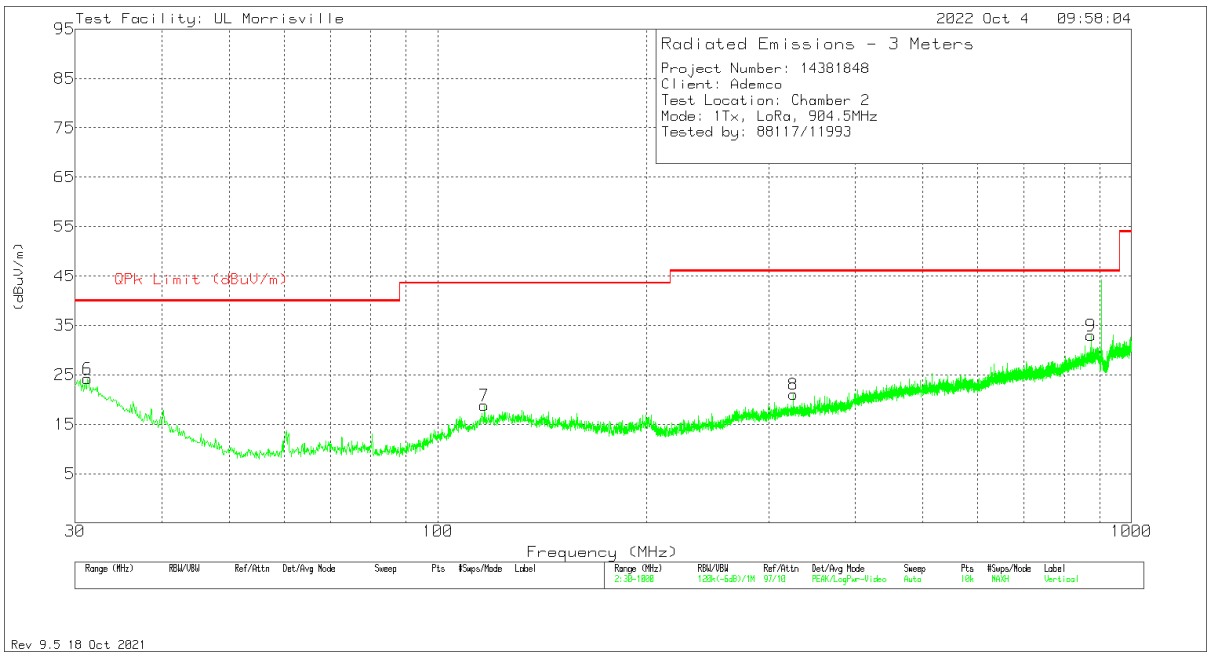
## 10.4. TRANSMITTER BELOW 1 GHZ

**TX SPURIOUS EMISSIONS 30 TO 1000 MHz Wiselink Mode (38.672kbps)**

**LOW CHANNEL RESULTS**




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AT0081 (dB/m) | Gain/Loss (dB) | Filter (dB) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | * ** 115.942 | 28.35 | Pk | 19.7 | -30.4 | .3 | 17.95 | 43.52 | -25.57 | 0-360 | 100 | H |
| 4 | ** 874.6067 | 36.78 | Qp | 28.5 | -25.8 | 1.2 | 40.68 | 46.02 | -5.34 | 345 | 102 | H |
| 5 | ** 951.888 | 28.85 | Pk | 29.4 | -24.8 | 1.2 | 34.65 | 46.02 | -11.37 | 0-360 | 100 | H |
| 7 | * ** 116.621 | 29.09 | Pk | 19.8 | -30.4 | .3 | 18.79 | 43.52 | -24.73 | 0-360 | 100 | V |
| 8 | * ** 325.656 | 29.17 | Pk | 20.4 | -28.9 | .4 | 21.07 | 46.02 | -24.95 | 0-360 | 200 | V |
| 9 | ** 874.676 | 29.05 | Pk | 28.5 | -25.8 | 1.2 | 32.95 | 46.02 | -13.07 | 0-360 | 100 | V |
| 1 | 30.679 | 28.96 | Pk | 26.6 | -31.7 | .1 | 23.96 | 40 | -16.04 | 0-360 | 300 | H |
| 6 | 31.261 | 29.67 | Pk | 26.2 | -31.8 | .1 | 24.17 | 40 | -15.83 | 0-360 | 100 | V |
| 3 | 288.893 | 30.14 | Pk | 19.7 | -29.2 | .4 | 21.04 | 46.02 | -24.98 | 0-360 | 300 | H |

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



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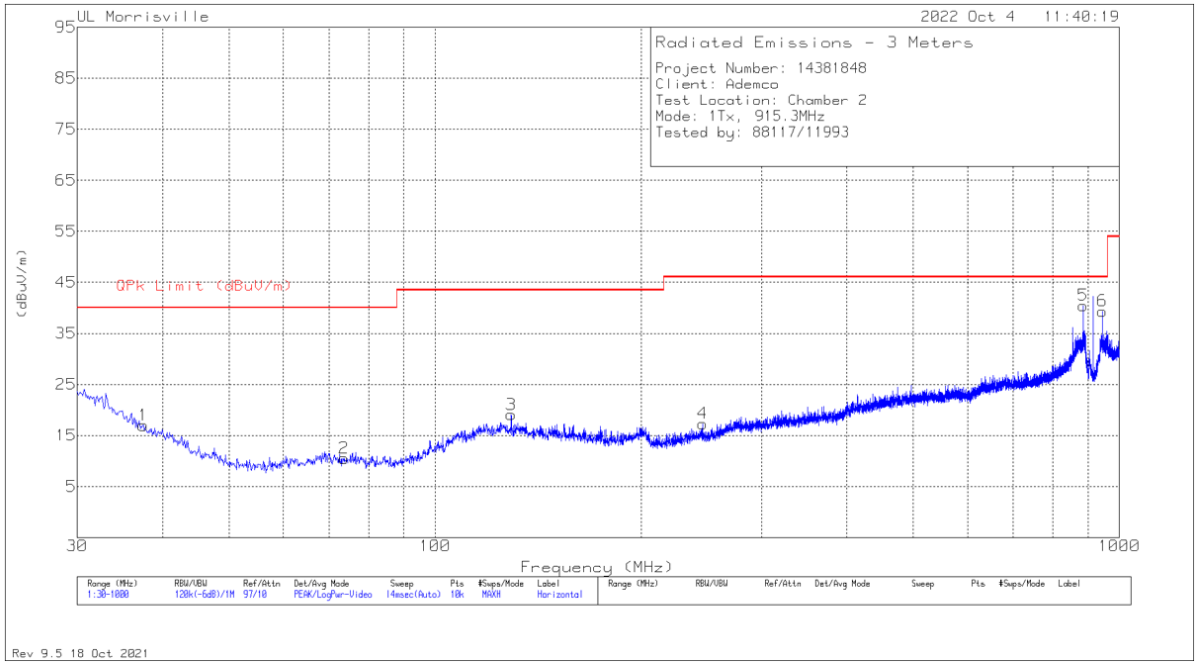
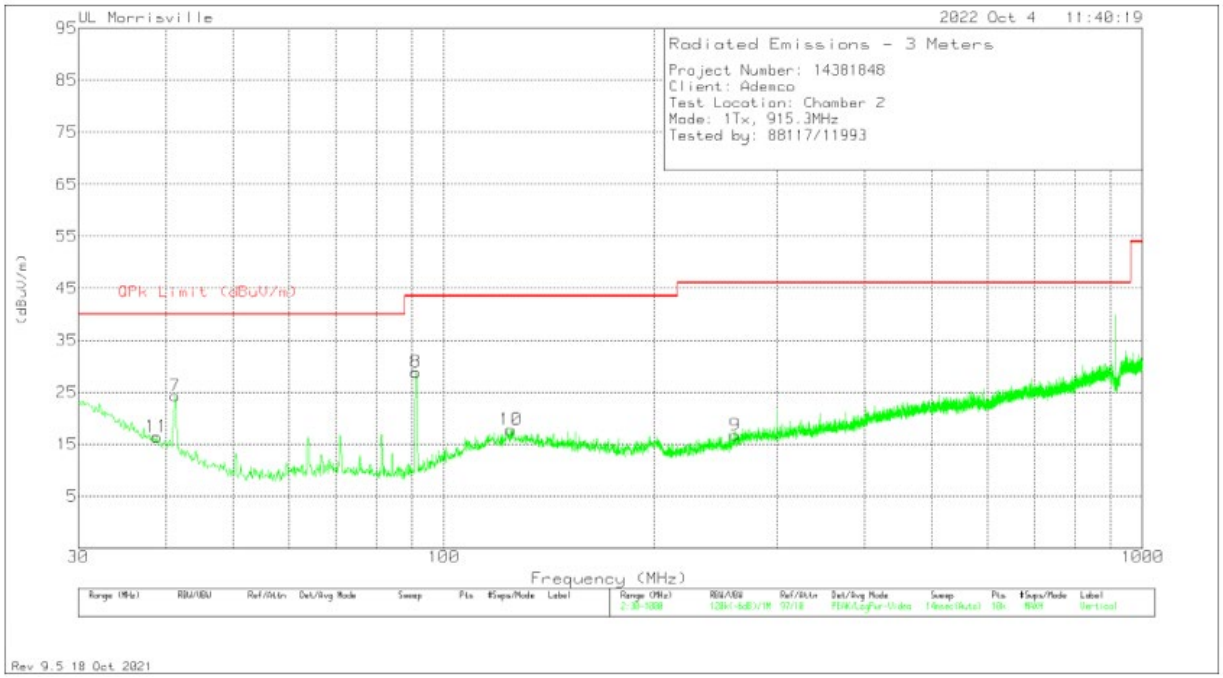
## MID CHANNEL RESULTS




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AT0081 (dB/m) | Gain/Loss (dB) | Filter (dB) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | * ** 73.65 | 27.14 | Pk | 14.3 | -31.1 | .2 | 10.54 | 40 | -29.46 | 0-360 | 100 | H |
| 3 | * ** 129.231 | 29.07 | Pk | 20.1 | -30.5 | .4 | 19.07 | 43.52 | -24.45 | 0-360 | 200 | H |
| 4 | * ** 246.116 | 28.03 | Pk | 18.1 | -29.3 | .5 | 17.33 | 46.02 | -28.69 | 0-360 | 100 | H |
| 5 | ** 885.4349 | 34.66 | Qp | 28.7 | -25.6 | 1.2 | 38.96 | 46.02 | -7.06 | 162 | 165 | H |
| 6 | ** 945.292 | 33.58 | Pk | 29.3 | -24.7 | 1.2 | 39.38 | 46.02 | -6.64 | 0-360 | 100 | H |
| 9 | * ** 261.248 | 27.16 | Pk | 18.6 | -29.4 | .4 | 16.76 | 46.02 | -29.26 | 0-360 | 200 | V |
| 10 | * ** 124.769 | 27.62 | Pk | 20.2 | -30.4 | .4 | 17.82 | 43.52 | -25.7 | 0-360 | 100 | V |
| 1 | 37.469 | 26.68 | Pk | 21.9 | -31.7 | .1 | 16.98 | 40 | -23.02 | 0-360 | 200 | H |
| 11 | 38.827 | 27.27 | Pk | 20.8 | -31.7 | .1 | 16.47 | 40 | -23.53 | 0-360 | 100 | V |
| 7 | 41.252 | 36.71 | Pk | 19 | -31.5 | .1 | 24.31 | 40 | -15.69 | 0-360 | 100 | V |
| 8 | 91.207 | 45.39 | Pk | 14.2 | -30.9 | .2 | 28.89 | 43.52 | -14.63 | 0-360 | 100 | V |

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



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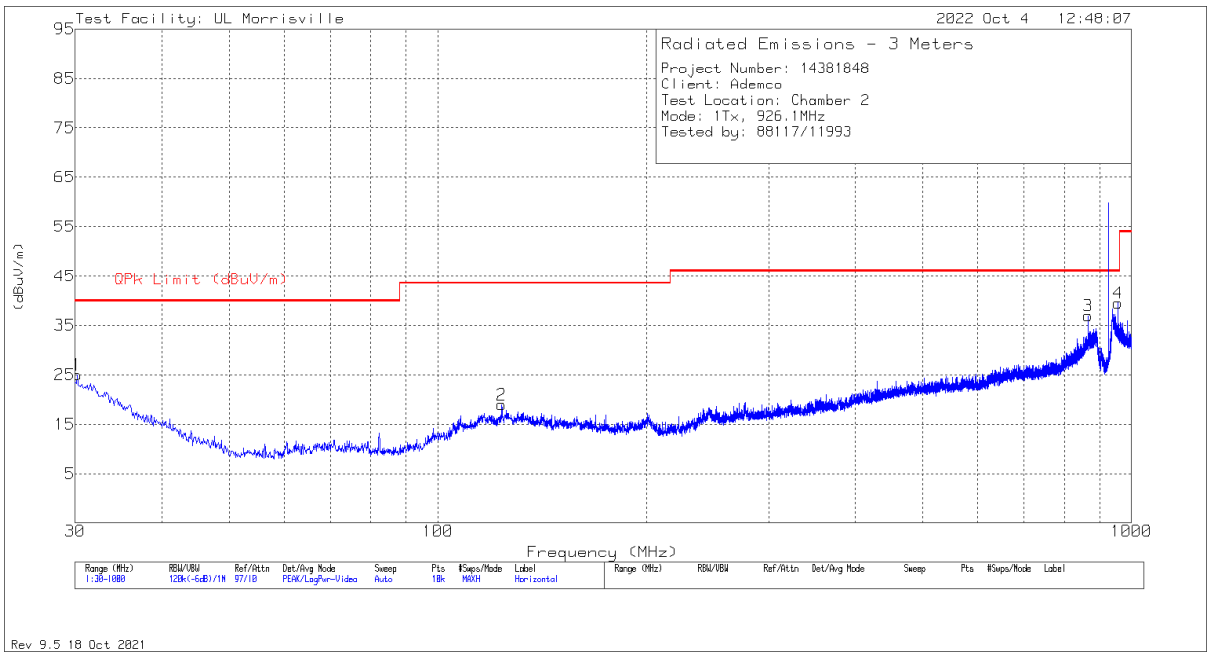
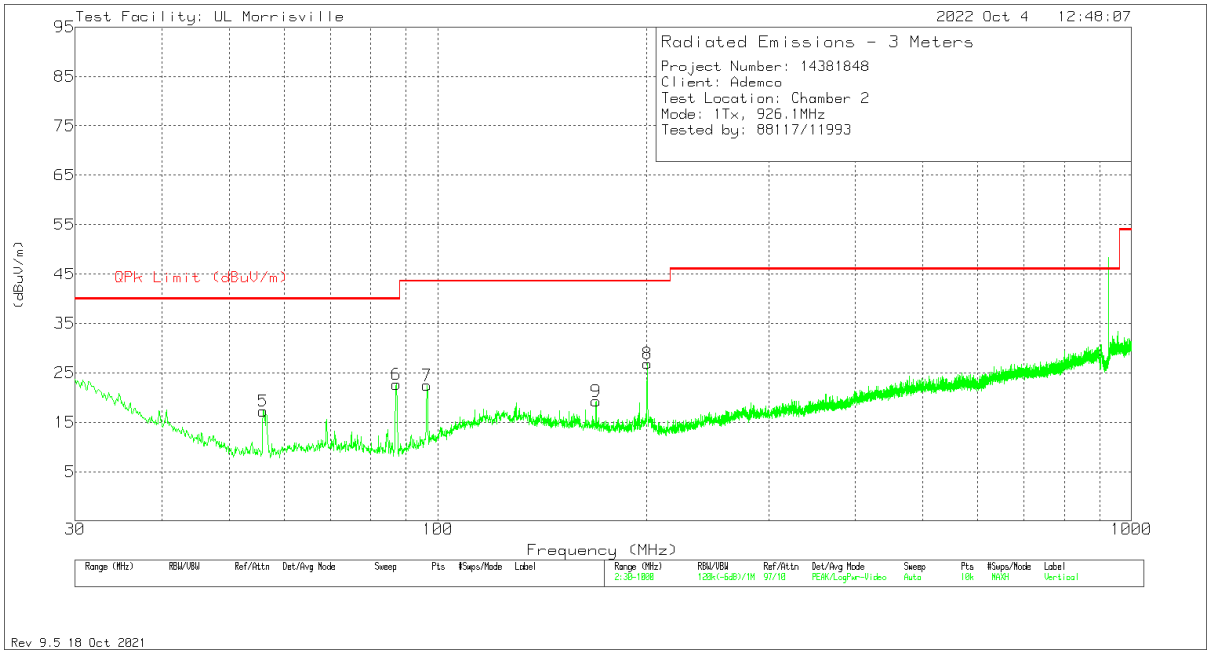
## HIGH CHANNEL RESULTS




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AT0081 (dB/m) | Gain/Loss (dB) | Filter (dB) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | * ** 123.605 | 28.85 | Pk | 20.2 | -30.5 | .4 | 18.95 | 43.52 | -24.57 | 0-360 | 300 | H |
| 3 | ** 866.043 | 33.25 | Pk | 28.5 | -25.8 | 1 | 36.95 | 46.02 | -9.07 | 0-360 | 100 | H |
| 4 | ** 956.253 | 33.47 | Pk | 29.6 | -24.6 | 1.1 | 39.57 | 46.02 | -6.45 | 0-360 | 100 | H |
| 9 | * ** 169.098 | 30.95 | Pk | 18.1 | -30.1 | .3 | 19.25 | 43.52 | -24.27 | 0-360 | 100 | V |
| 1 | 30.194 | 29.49 | Pk | 27.1 | -31.7 | .1 | 24.99 | 40 | -15.01 | 0-360 | 100 | H |
| 5 | 55.996 | 35.3 | Pk | 13.3 | -31.4 | .1 | 17.3 | 40 | -22.7 | 0-360 | 200 | V |
| 6 | 87.133 | 39.91 | Pk | 13.6 | -31 | .2 | 22.71 | 40 | -17.29 | 0-360 | 100 | V |
| 7 | 96.445 | 37.55 | Pk | 15.5 | -30.8 | .2 | 22.45 | 43.52 | -21.07 | 0-360 | 200 | V |
| 8 | 200.429 | 37.77 | Pk | 18.6 | -29.9 | .4 | 26.87 | 43.52 | -16.65 | 0-360 | 100 | V |

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



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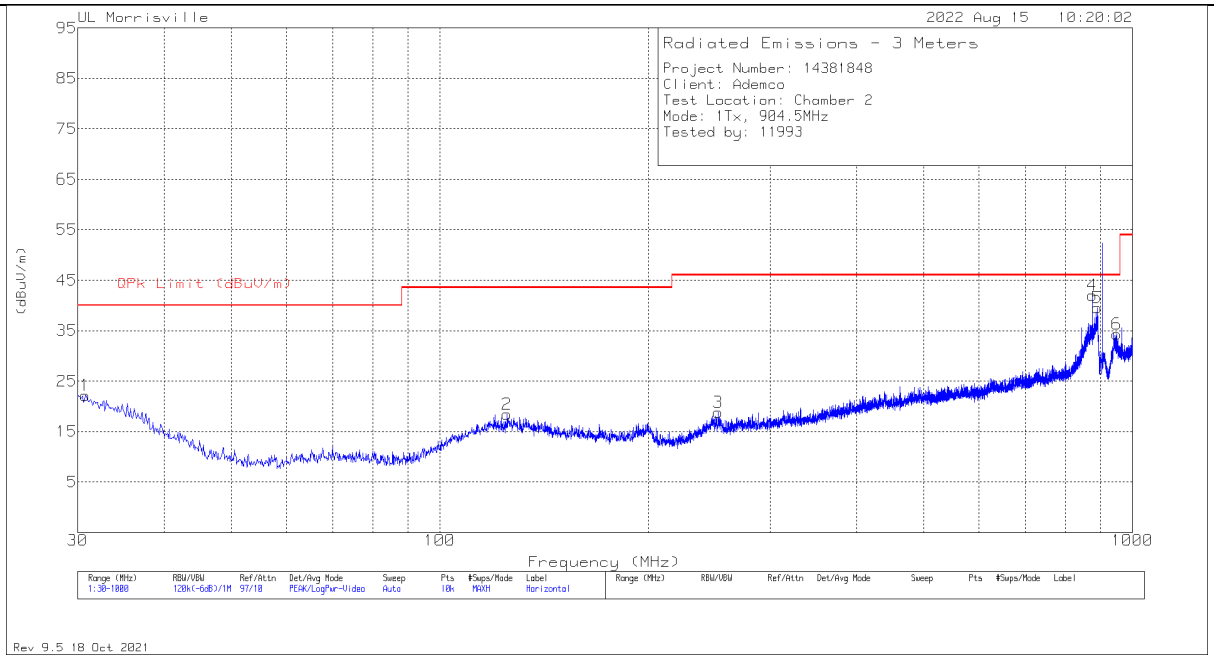
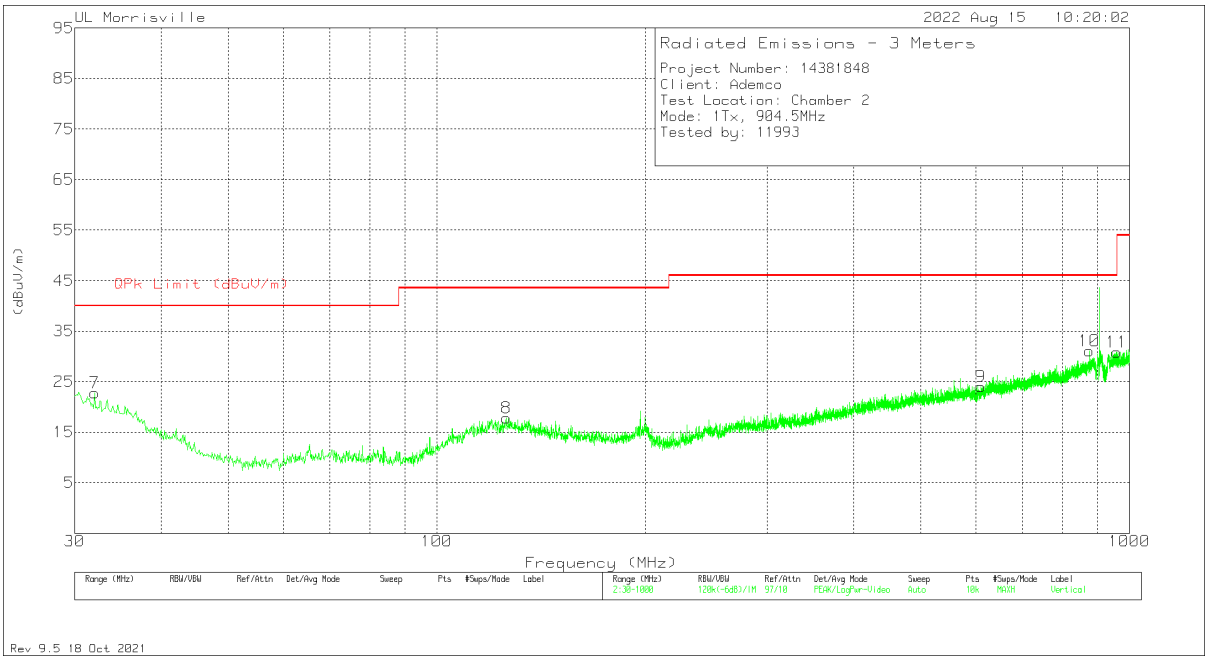
**TX SPURIOUS EMISSIONS 30 TO 1000 MHz Streaming Mode (300kbps)**

## LOW CHANNEL RESULTS




**HORIZONTAL**




**VERTICAL**

## RADIATED EMISSIONS

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AT0073 (dB/m) | Gain/Loss (dB) | Filter (dB) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | * ** 124.963 | 28.18 | Pk | 19.9 | -30.1 | .4 | 18.38 | 43.52 | -25.14 | 0-360 | 101 | H |
| 3 | * ** 252.324 | 29.72 | Pk | 17.6 | -28.9 | .4 | 18.82 | 46.02 | -27.2 | 0-360 | 101 | H |
| 4 | ** 874.6041 | 36.96 | Qp | 28.1 | -25.6 | 1.2 | 40.66 | 46.02 | -5.36 | 317 | 173 | H |
| 5 | ** 890.196 | 35.39 | Pk | 28.3 | -25.4 | 1.2 | 39.49 | 46.02 | -6.53 | 0-360 | 101 | H |
| 6 | ** 948.881 | 28.76 | Pk | 28.9 | -24.5 | 1.2 | 34.36 | 46.02 | -11.66 | 0-360 | 101 | H |
| 8 | * ** 126.03 | 27.62 | Pk | 19.9 | -30.1 | .4 | 17.82 | 43.52 | -25.7 | 0-360 | 101 | V |
| 9 | * ** 610.254 | 25.51 | Pk | 24.8 | -27 | .7 | 24.01 | 46.02 | -22.01 | 0-360 | 199 | V |
| 10 | ** 874.676 | 27.37 | Pk | 28.1 | -25.6 | 1.2 | 31.07 | 46.02 | -14.95 | 0-360 | 101 | V |
| 11 | ** 959.357 | 25.19 | Pk | 29.1 | -24.4 | 1 | 30.89 | 46.02 | -15.13 | 0-360 | 199 | V |
| 1 | 30.776 | 27.15 | Pk | 26.3 | -31.4 | .1 | 22.15 | - | - | 0-360 | 101 | H |
| 7 | 32.037 | 28.69 | Pk | 25.5 | -31.5 | .1 | 22.79 | - | - | 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
Qp - Quasi-Peak detector



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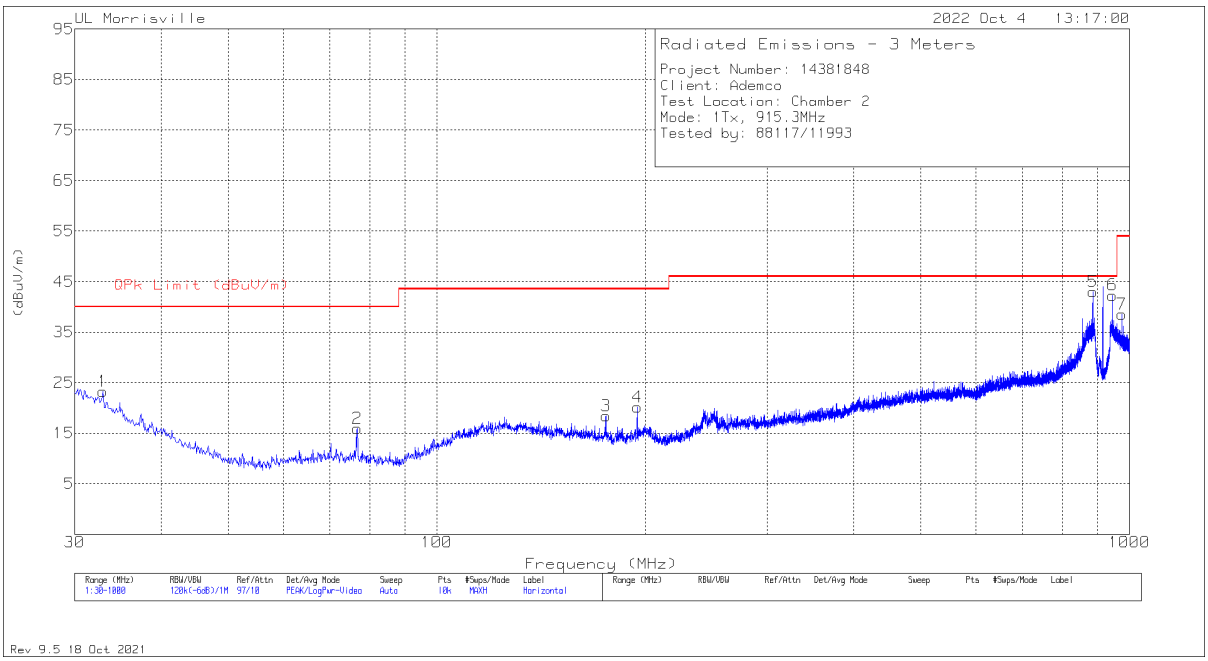
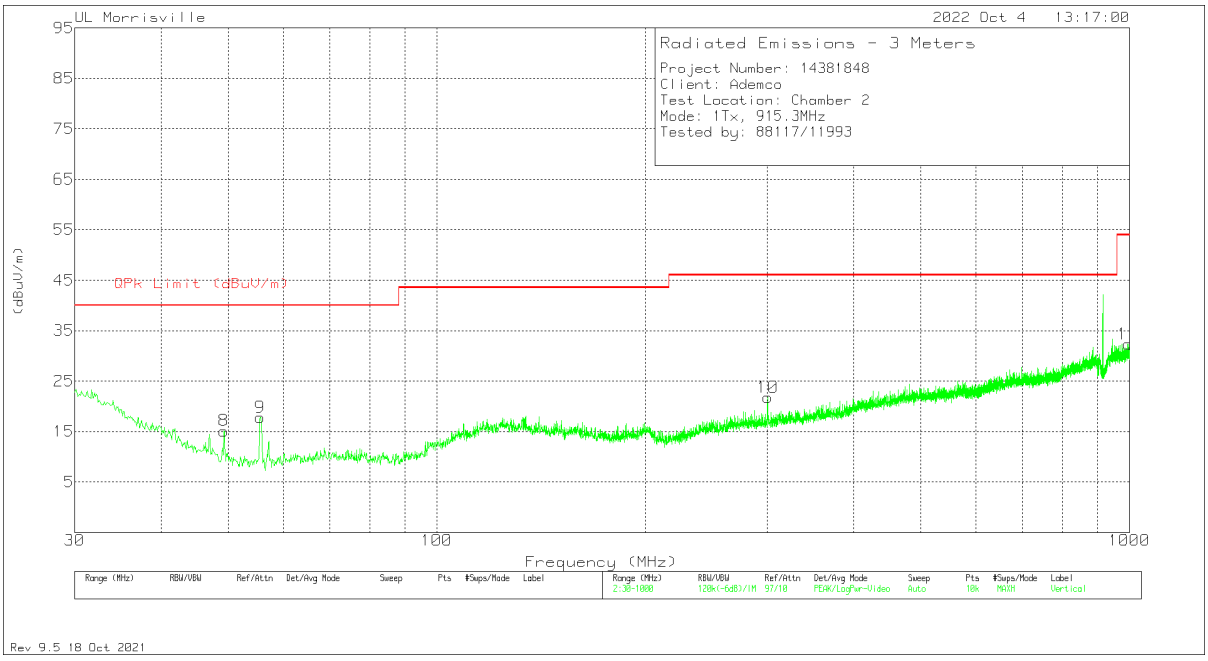
## MID CHANNEL RESULTS




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AT0081 (dB/m) | Gain/Loss (dB) | Filter (dB) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | ** 885.4162 | 36.26 | Qp | 28.7 | -25.6 | 1.2 | 40.56 | 46.02 | -5.46 | 159 | 162 | H |
| 6 | ** 945.1825 | 35.05 | Qp | 29.3 | -24.7 | 1.2 | 40.85 | 46.02 | -5.17 | 163 | 154 | H |
| 7 | * ** 975.265 | 32.57 | Pk | 29.6 | -24.5 | .9 | 38.57 | 53.97 | -15.4 | 0-360 | 100 | H |
| 11 | * ** 996.314 | 25.52 | Pk | 29.9 | -24.1 | 1 | 32.32 | 53.97 | -21.65 | 0-360 | 100 | V |
| 1 | 32.91 | 29.56 | Pk | 25.2 | -31.6 | .1 | 23.26 | 40 | -16.74 | 0-360 | 200 | H |
| 8 | 49.206 | 32.14 | Pk | 14.3 | -31.4 | .1 | 15.14 | 40 | -24.86 | 0-360 | 100 | V |
| 9 | 55.608 | 35.74 | Pk | 13.3 | -31.3 | .1 | 17.84 | 40 | -22.16 | 0-360 | 100 | V |
| 2 | 76.754 | 32.8 | Pk | 14.1 | -31.3 | .3 | 15.9 | 40 | -24.1 | 0-360 | 100 | H |
| 3 | 175.403 | 30.34 | Pk | 17.8 | -30 | .3 | 18.44 | 43.52 | -25.08 | 0-360 | 100 | H |
| 4 | 194.706 | 31.82 | Pk | 17.9 | -29.9 | .4 | 20.22 | 43.52 | -23.3 | 0-360 | 200 | H |
| 10 | 300.242 | 30.7 | Pk | 19.8 | -29.2 | .5 | 21.8 | 46.02 | -24.22 | 0-360 | 100 | V |

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



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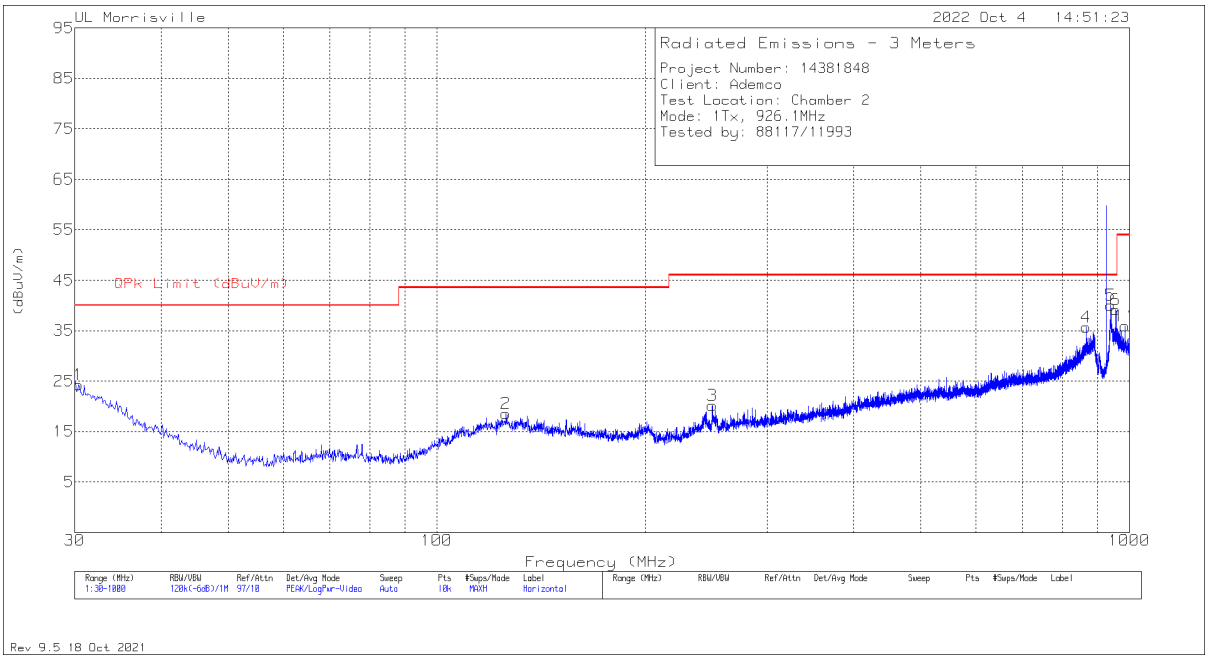
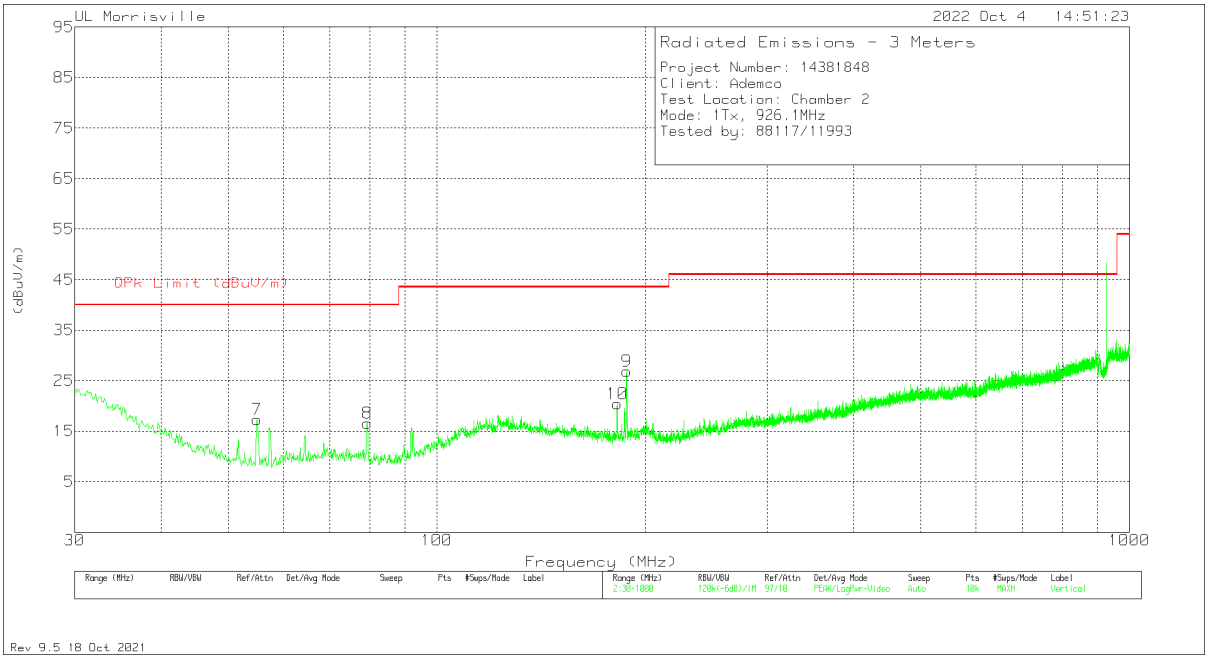
## HIGH CHANNEL RESULTS




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AT0081 (dB/m) | Gain/Loss (dB) | Filter (dB) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | * ** 125.739 | 28.41 | Pk | 20.2 | -30.4 | .4 | 18.61 | 43.52 | -24.91 | 0-360 | 100 | H |
| 3 | * ** 249.899 | 31.24 | Pk | 17.9 | -29.4 | .4 | 20.14 | 46.02 | -25.88 | 0-360 | 100 | H |
| 4 | ** 866.043 | 31.97 | Pk | 28.5 | -25.8 | 1 | 35.67 | 46.02 | -10.35 | 0-360 | 100 | H |
| 5 | ** 940.0756 | 28.77 | Qp | 29.2 | -24.9 | 1.2 | 34.27 | 46.02 | -11.75 | 186 | 151 | H |
| 6 | ** 956.059 | 33.07 | Pk | 29.6 | -24.6 | 1.1 | 39.17 | 46.02 | -6.85 | 0-360 | 100 | H |
| 11 | * ** 986.226 | 29.41 | Pk | 29.7 | -24.1 | .9 | 35.91 | 53.97 | -18.06 | 0-360 | 100 | H |
| 1 | 30.388 | 28.98 | Pk | 26.9 | -31.7 | .1 | 24.28 | 40 | -15.72 | 0-360 | 100 | H |
| 7 | 55.026 | 35.45 | Pk | 13.2 | -31.4 | .1 | 17.35 | 40 | -22.65 | 0-360 | 100 | V |
| 8 | 79.373 | 33.43 | Pk | 13.9 | -31.1 | .3 | 16.53 | 40 | -23.47 | 0-360 | 100 | V |
| 10 | 182.096 | 32.3 | Pk | 17.5 | -29.8 | .4 | 20.4 | 43.52 | -23.12 | 0-360 | 100 | V |
| 9 | 187.916 | 38.82 | Pk | 17.5 | -29.9 | .4 | 26.82 | 43.52 | -16.7 | 0-360 | 100 | V |

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



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# 11. SETUP PHOTOS

Please refer to R14381848-EP1 for setup photos.

# END OF TEST REPORT



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