



CERTIFICATION TEST REPORT

Report Number. : R12922855-E6

Applicant : Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399
USA

Model : 1867

FCC ID : C3K1867

IC : 3048A-1867

EUT Description : Portable Computing Device

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

Date Of Issue:
2019-09-09

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REPORT REVISION HISTORY

Ver.	Issue Date	Revisions	Revised By
1	2019-08-29	Initial Issue	Brian T. Kiewra
2	2019-09-09	Added AC power adaptor to support equipment. Added "Intentionally Left Blank" to p. 16. Added model similiarity explanation to Section 5.5	Brian T. Kiewra

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399
USA

EUT DESCRIPTION: Portable Computing Device

MODEL: 1867

SERIAL NUMBER: See Section 5.4

DATE TESTED: 2019-08-01 to 2019-08-13

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

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

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

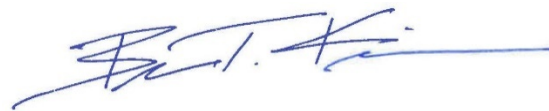
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Approved & Released
For UL LLC By:



Jeffrey Moser
Operations Leader
UL – Consumer Technology Division

Prepared By:



Brian T. Kiewra
Project Engineer
UL – Consumer Technology Division

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, FCC 14-30, FCC KDB 662911 D01 v02r01, FCC KDB 789033 D02 v02r01, ANSI C63.10-2013, FCC 06-96, RSS-GEN Issue 5, and RSS-247 Issue 2.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 12 Laboratory Drive, Research Triangle Park, NC 27709, USA and 2800 Perimeter Park Dr., Suite B, Morrisville, NC 27590, USA. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

12 Laboratory Dr.		2800 Perimeter Park Dr.	
Site Code: 2180C			
☐	Chamber A RTP	☒	North Chamber
☐	Chamber C RTP	☒	South Chamber

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

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. 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.
 $36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} = 46.6 \text{ dBuV}$

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
All emissions, radiated	5.17 dB
Temperature	2.26°C
Humidity	6.79%

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

5. EQUIPMENT UNDER TEST

5.1. EUT DESCRIPTION

The EUT is a Portable Computing Device that contains 802.11 a/ac/ax/b/g/n 20/40/80/160MHz 2x2 dual band and BT/BLE radios.

5.2. MAXIMUM OUTPUT POWER

Refer to Model 1868 (FCC ID: C3K1868, IC: 3048A-1868) report R12935938-E6 for output power.

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

Frequency Range (GHz)	Antenna Type	Peak Gain (dBi) Chain 0 (Right)	Peak Gain (dBi) Chain 1 (Left)
Model 1867			
2.4 to 2.48	PIFA	0.7	2.6
5.15 to 5.25		4.9	4.4
5.25 to 5.35		6.1	5.0
5.47 to 5.72		7.2	5.5
5.725 to 5.85		9.4	5.6
Model 1868			
2.4 to 2.48	PIFA	0.4	1.0
5.15 to 5.25		3.6	2.2
5.25 to 5.35		5.2	3.5
5.47 to 5.72		6.4	4.7
5.725 to 5.85		7.8	4.5

5.4. SOFTWARE AND FIRMWARE

EUT	Serial Number	Radio Test Tool Version	OS Version	BT Driver Version	WiFi Driver Version	EUT's Power Supply (s/n)
R-557-1867-FCC-RADIATED-08	006438792757	11.1916.0-09531	MTEOS 1.652.0	21.0.19157.20088	99.0.43.8	0D130P028D596
R-557-1867-FCC-RADIATED-09	006439692757	11.1916.0-09531	MTEOS 1.652.0	21.0.19157.20088	99.0.43.8	0D130P01H1596

5.5. WORST-CASE CONFIGURATION AND MODE

As model 1868 and model 1867 contain the same radio, antenna port conducted testing is covered in model 1868 (FCC ID: C3K1868, IC: 3048A-1868) report R12935938-E6. Radiated emissions below 1GHz, above 18GHz, and power line conducted emissions were performed in worst-case test report R12922855-E11 (FCC ID: C3K1867, IC: 3048A-1867).

Models 1867 and 1868 are electrically and RF equivalent as they use the same motherboard, radio module and on-board RF components. Both models share a common WiFi and BT power table. The radio-related firmware and driver versions are the same for the two models. The peak antenna gains are in the antenna gain section of the report. Antenna port conducted emissions measurements are done on model 1868 (FCC ID: C3K1868, IC: 3048A-1868) and the data is leveraged for model 1867 (FCC ID: C3K1867, IC: 3048A-1867). Highest antenna gain across the two models in each band has been considered while doing the conducted emissions measurements. Separate radiated & SAR measurements are done on each model.

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 EUT has one intended orientations, X; therefore, all final radiated testing was performed with the EUT in X orientation.

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

802.11a mode: 6 Mbps
802.11n HT20mode: MCS8
802.11n HT40mode: MCS8
802.11ac VHT80 mode: MCS0 (NSS=2)
802.11ac VHT160 mode: MCS0 (NSS=2)

All radios that can transmit simultaneously have been evaluated for radiated for all possible combinations of transmission and found to be in compliance.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
USB Hub	J5 Create	JCA374	AY2A1904000477 / AY6A1903004261	N/A
Earbuds	Sony	MDR-EX14AP	Non-Serialized	N/A
AC Adaptor	Microsoft	1706	0D130P01H1596	N/A
USB Flash Drive	Kingston	Data Traveler G4	Non-Serialized	N/A

I/O CABLES

I/O Cable List						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	Mains	1	12-pin	Mains	<3m	None
2	USB-A	1	USB-A	USB	<3m	None
3	USB-C	1	USB-C	USB	<3m	None
4	Aux	1	Aux	Aux	<3m	None

TEST SETUP

The test utility software was located on the EUT during the tests and was used to exercised the radios.

SETUP DIAGRAMS

Please refer to 12922855-EP1 for setup diagrams

6. TEST AND MEASUREMENT EQUIPMENT

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

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

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
1-18 GHz					
AT0067	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2019-03-22	2020-03-22
Gain-Loss Chains					
N-SAC03	Gain-loss string: 1-18GHz	Various	Various	2019-03-15	2020-03-15
Receiver & Software					
SA0026	Spectrum Analyzer	Agilent	N9030A	2019-03-19	2020-03-19
SOFTEMI	EMI Software	UL	Version 9.5	NA	NA
Additional Equipment used					
s/n 181474341	Environmental Meter	Fisher Scientific	15-077-963	2018-07-27	2020-07-27

NOTES:

1. For equipment listed above that was calibrated during the testing period, please note the equipment was used for testing after calibration.
2. For equipment listed above that has a calibration due date during the testing period, the testing was completed before the equipment expiration date.

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

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
1-18 GHz					
AT0072	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2019-04-22	2020-04-22
Gain-Loss Chains					
S-SAC03	Gain-loss string: 1-18GHz	Various	Various	2019-03-13	2020-03-13
Receiver & Software					
SA0025	Spectrum Analyzer	Agilent	N9030A	2019-02-28	2020-02-28
SOFTEMI	EMI Software	UL	Version 9.5	NA	NA
Additional Equipment used					
s/n 181474409	Environmental Meter	Fisher Scientific	15-077-963	2018-07-27	2020-07-27

NOTES:

1. For equipment listed above that was calibrated during the testing period, please note the equipment was used for testing after calibration.
2. For equipment listed above that has a calibration due date during the testing period, the testing was completed before the equipment expiration date.

7. MEASUREMENT METHOD

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

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

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

Use of IEEE 802.11 channels that straddle the UNII-2C and UNII-3 bands at 5725 MHz: KDB 789033 D02 v02r01, Section III

8. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209 - Restrictcd bands

FCC §15.407(b)(1-4) - Non-Restricted bands

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

RSS 247 Issue 2 Sections

6.2.1.2 (for 5150-5250 MHz band)

6.2.2.2 (for 5250-5350 MHz band)

6.2.3.2 (for 5470-5600 MHz and 5650-5725 MHz bands)

6.2.4.2 (for 5725-5850 MHz band)

NCC LP0002 §2.7 and §2.8

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

TEST PROCEDURE

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

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

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements. Detector used was RMS average detector.

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

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

Note: All frequencies were marked at the maximum emissions within the restricted band. This was due to the observed margins of the emissions to the non-restricted limit.

8.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

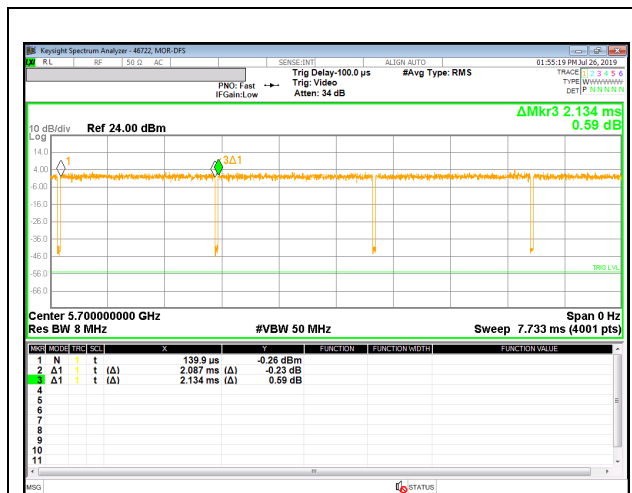
PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method.

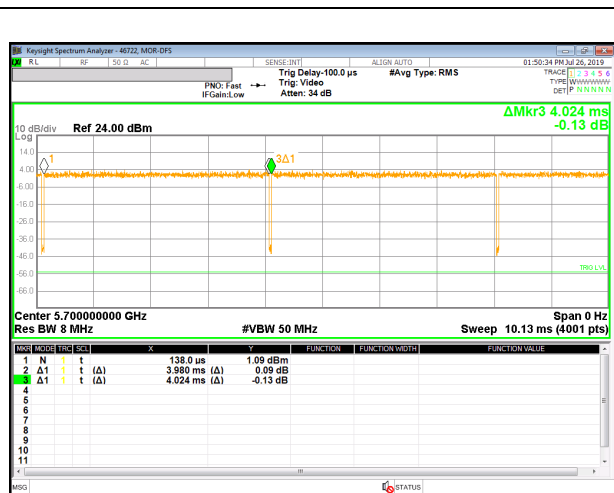
5.6 Band

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
802.11a CDD	2.087	2.134	0.978	97.80%	0.10	0.479
802.11n HT20 SDM	3.980	4.024	0.989	98.91%	0.00	0.010
802.11n HT40 SDM	3.975	4.024	0.988	98.78%	0.00	0.010
802.11ac VHT80 SDM	3.967	4.012	0.989	98.88%	0.00	0.010
802.11ac VHT160 SDM	2.784	2.829	0.984	98.41%	0.00	0.010

DUTY CYCLE PLOTS



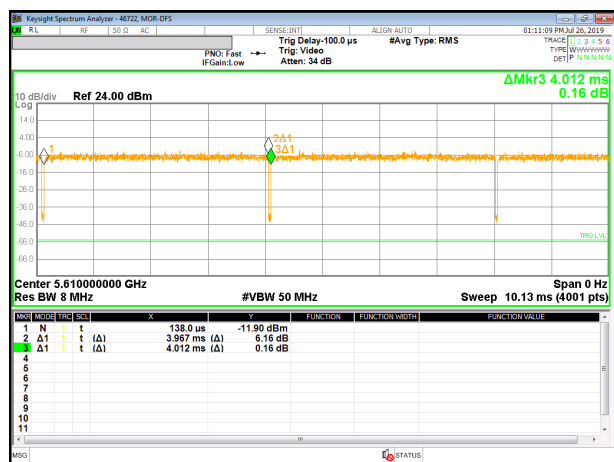
DUTY CYCLE 802.11a CDD MODE



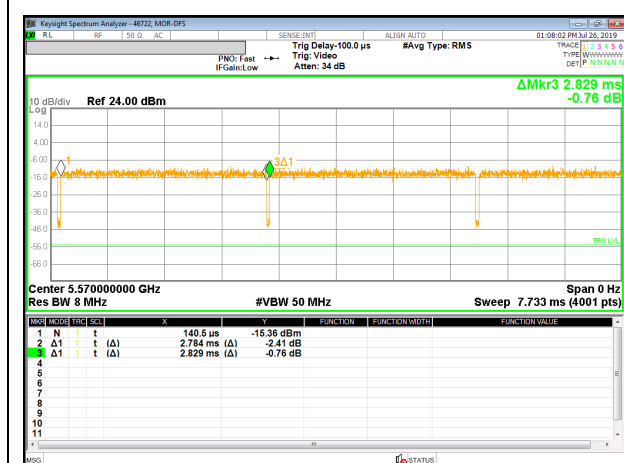
DUTY CYCLE 802.11n HT20 SDM MODE



DUTY CYCLE 802.11n HT40 SDM MODE



DUTY CYCLE 802.11ac VHT80 SDM MODE



DUTY CYCLE 802.11ac VHT160 SDM MODE

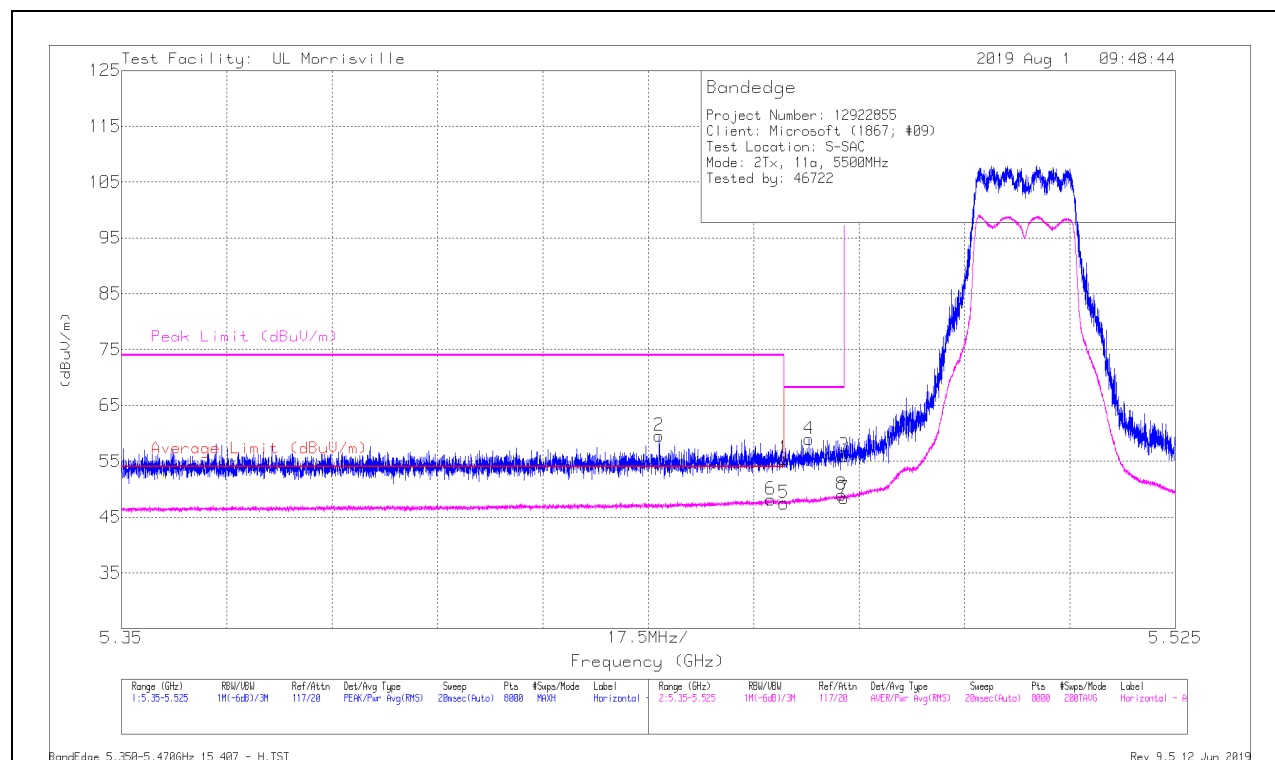
8.2. TRANSMITTER ABOVE 1 GHz

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

2TX Antenna 1 + Antenna 2 CDD MODE

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (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	*** 5.45998	44.35	Pk	34.5	-23.4	0	55.45	-	-	74	-18.55	19	370	H
2	*** 5.43928	48.42	Pk	34.5	-23.4	0	59.52	-	-	74	-14.48	19	370	H
5	*** 5.45998	36.26	RMS	34.5	-23.4	.1	47.46	54	-6.54	-	-	19	370	H
6	*** 5.45777	36.95	RMS	34.5	-23.4	.1	48.15	54	-5.85	-	-	19	370	H
4	5.46414	47.86	Pk	34.5	-23.4	0	58.96	-	-	68.2	-9.24	19	370	H
8	5.46954	37.85	RMS	34.5	-23.5	.1	48.95	-	-	-	-	19	370	H
3	5.46998	44.91	Pk	34.5	-23.5	0	55.91	-	-	68.2	-12.29	19	370	H
7	5.46998	37.27	RMS	34.5	-23.5	.1	48.37	-	-	-	-	19	370	H

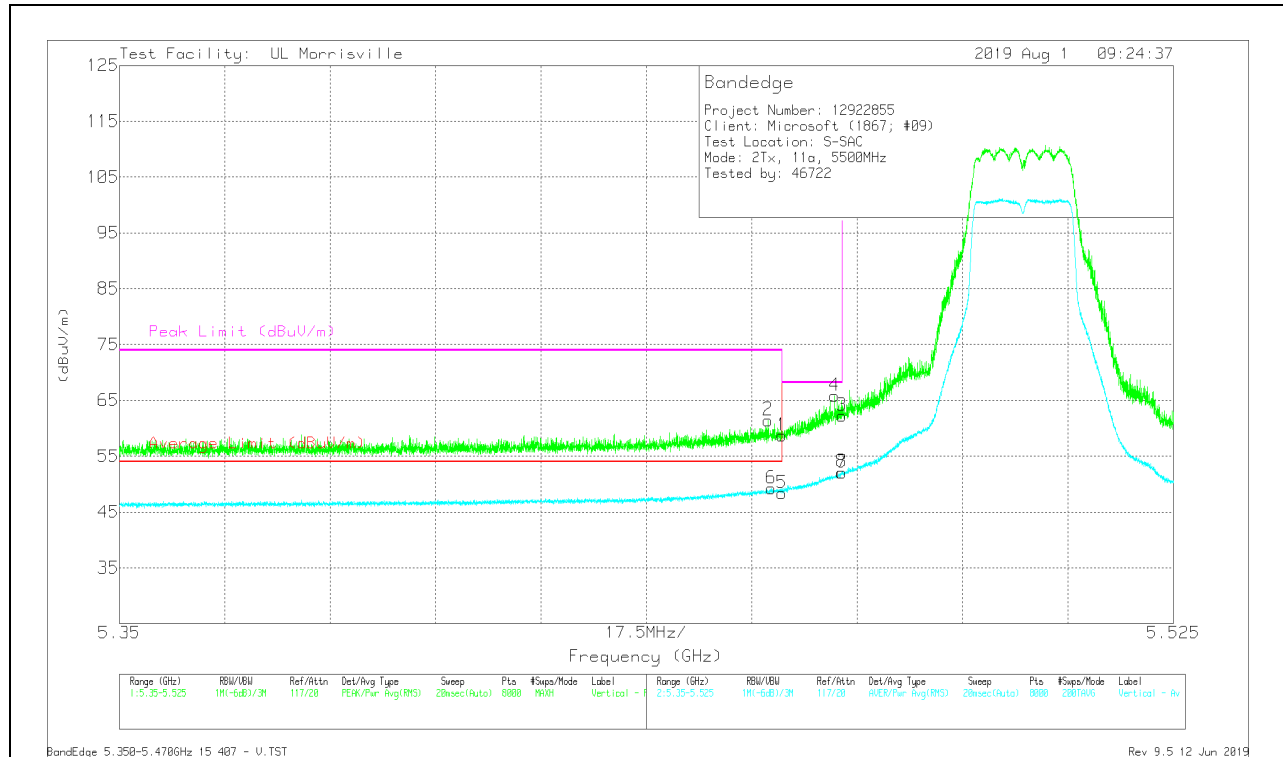
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (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	*** 5.45998	47.61	Pk	34.5	-23.4	0	58.71	-	-	74	-15.29	338	227	V
2	*** 5.45773	50.35	Pk	34.5	-23.4	0	61.45	-	-	74	-12.55	338	227	V
5	*** 5.45998	37.14	RMS	34.5	-23.4	.1	48.34	54	-5.66	-	-	338	227	V
6	*** 5.45821	38.02	RMS	34.5	-23.4	.1	49.22	54	-4.78	-	-	338	227	V
4	5.46873	54.79	Pk	34.5	-23.5	0	65.79	-	-	68.2	-2.41	338	227	V
8	5.46994	41.02	RMS	34.5	-23.5	.1	52.12	-	-	-	-	338	227	V
3	5.46998	51.28	Pk	34.5	-23.5	0	62.28	-	-	68.2	-5.92	338	227	V
7	5.46998	40.97	RMS	34.5	-23.5	.1	52.07	-	-	-	-	338	227	V

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

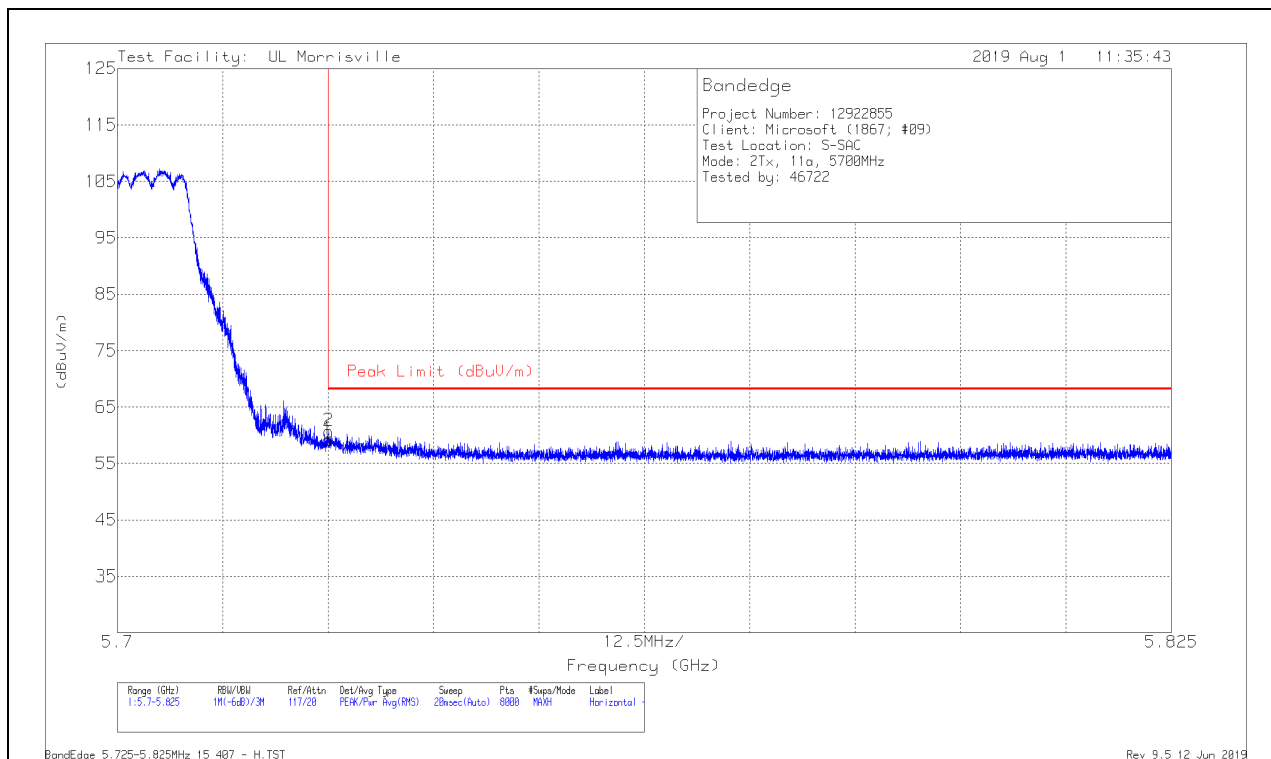
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

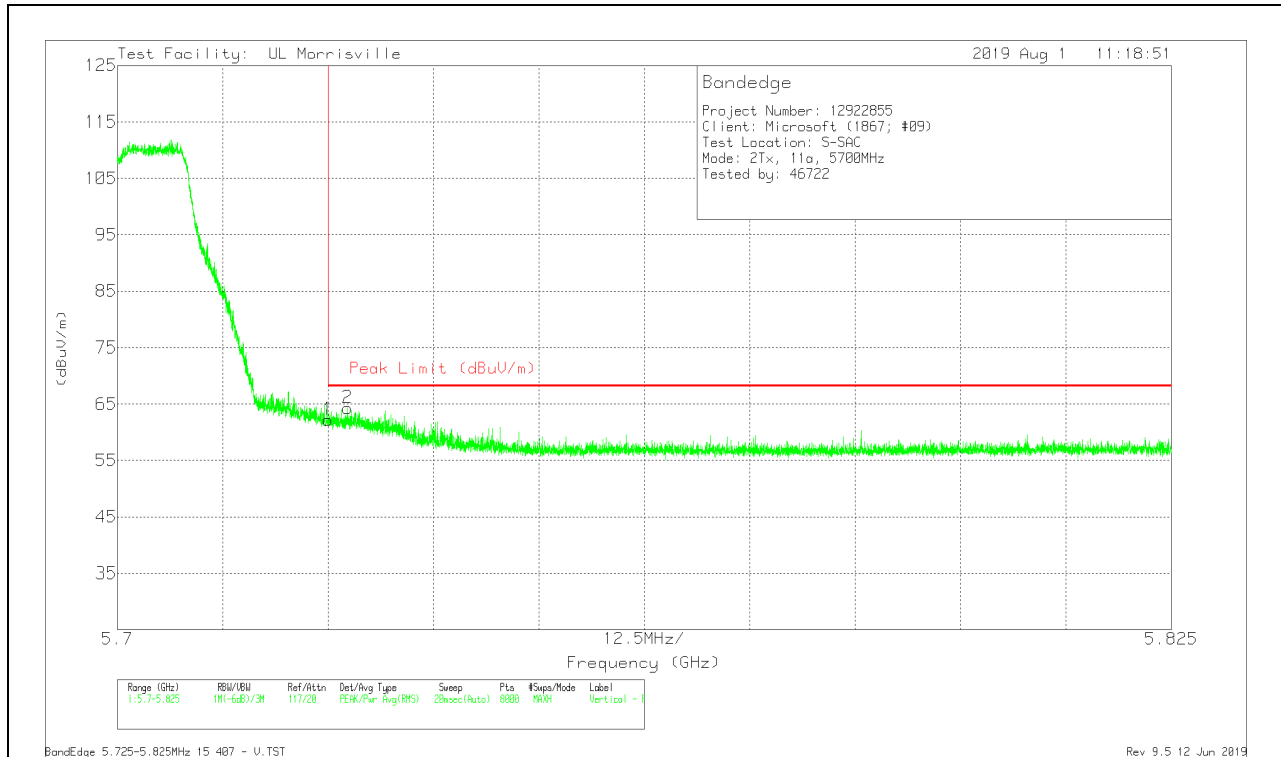
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	47.83	Pk	34.7	-23.3	0	59.23	68.2	-8.97	317	251	H
2	5.72507	49.3	Pk	34.7	-23.3	0	60.7	68.2	-7.5	317	251	H

Pk - Peak detector

VERTICAL RESULT

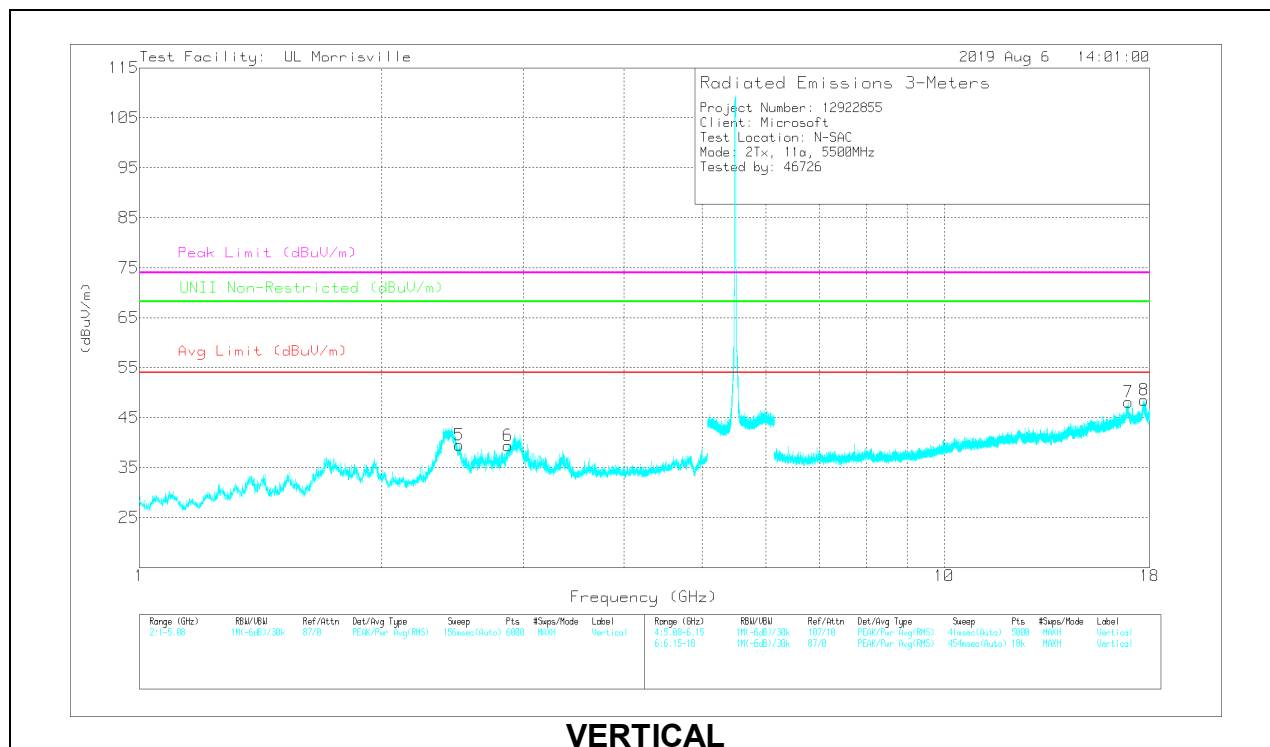
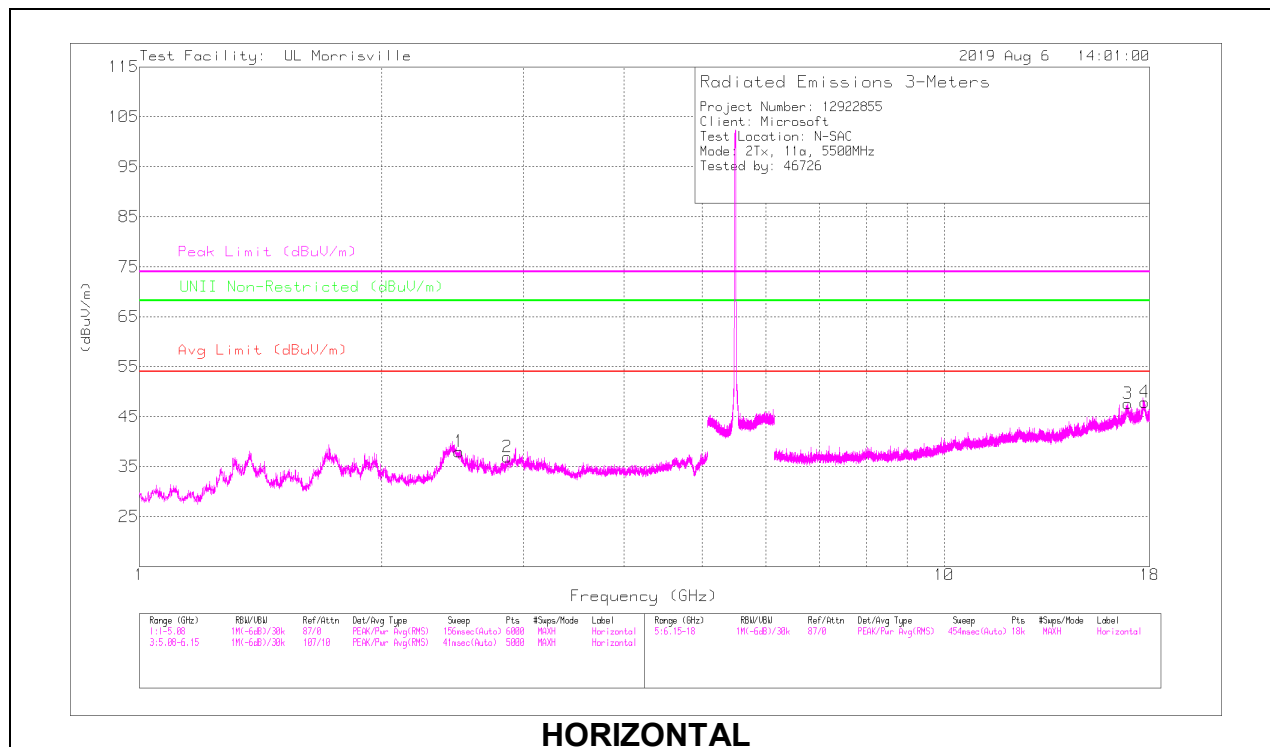


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	50.8	Pk	34.7	-23.3	0	62.2	68.2	-6	81	225	V
2	5.72727	52.78	Pk	34.7	-23.2	0	64.28	68.2	-3.92	81	225	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.49524	47.63	PK-U	32.5	-34.2	0	45.93	-	-	74	-28.07	-	-	281	227	H
	*** 2.49524	35.64	ADR	32.5	-34.2	0	34.04	54	-19.96	-	-	-	-	281	227	H
2	*** 2.86606	45.82	PK-U	32.5	-33.8	0	44.52	-	-	74	-29.48	-	-	295	213	H
	*** 2.86604	33.55	ADR	32.5	-33.8	0.1	32.35	54	-21.65	-	-	-	-	295	213	H
5	*** 2.48906	51.99	PK-U	32.4	-34.2	0	50.19	-	-	74	-23.81	-	-	15	236	V
	*** 2.48907	38.49	ADR	32.4	-34.2	0.1	36.79	54	-17.21	-	-	-	-	15	236	V
6	*** 2.87006	49.56	PK-U	32.5	-33.9	0	48.16	-	-	74	-25.84	-	-	34	234	V
	*** 2.87006	37.58	ADR	32.5	-33.9	0.1	36.28	54	-17.72	-	-	-	-	34	234	V
4	*** 17.7474	35	PK-U	41.1	-20.6	0	55.5	-	-	74	-18.5	-	-	128	389	H
	*** 17.74732	22.11	ADR	41.1	-20.6	0.1	42.71	54	-11.29	-	-	-	-	128	389	H
8	*** 17.7362	34.18	PK-U	41.1	-20.3	0	54.98	-	-	74	-19.02	-	-	246	195	V
	*** 17.73627	22.13	ADR	41.1	-20.3	0.1	43.03	54	-10.97	-	-	-	-	246	195	V
3	16.92047	36.62	PK-U	41.4	-23.4	0	54.62	-	-	-	-	68.2	-13.58	356	381	H
7	16.94052	36.13	PK-U	41.4	-23.9	0	53.63	-	-	-	-	68.2	-14.57	0	117	V

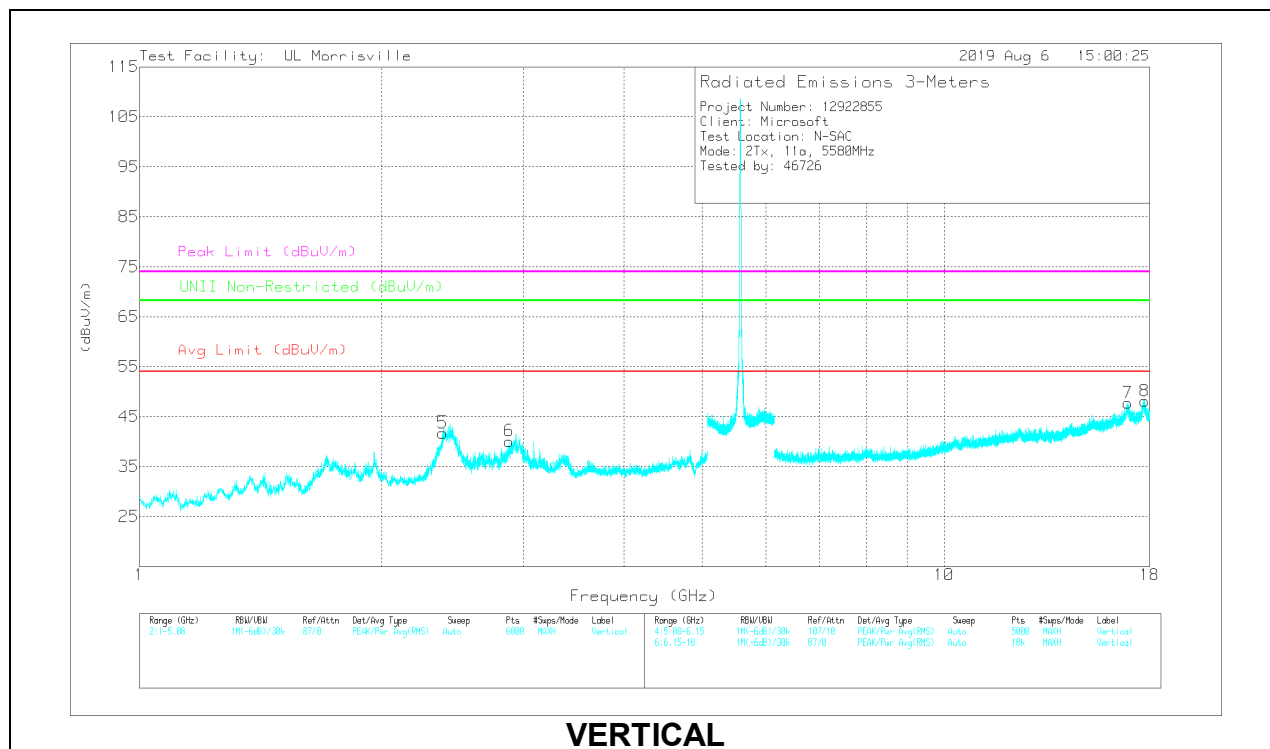
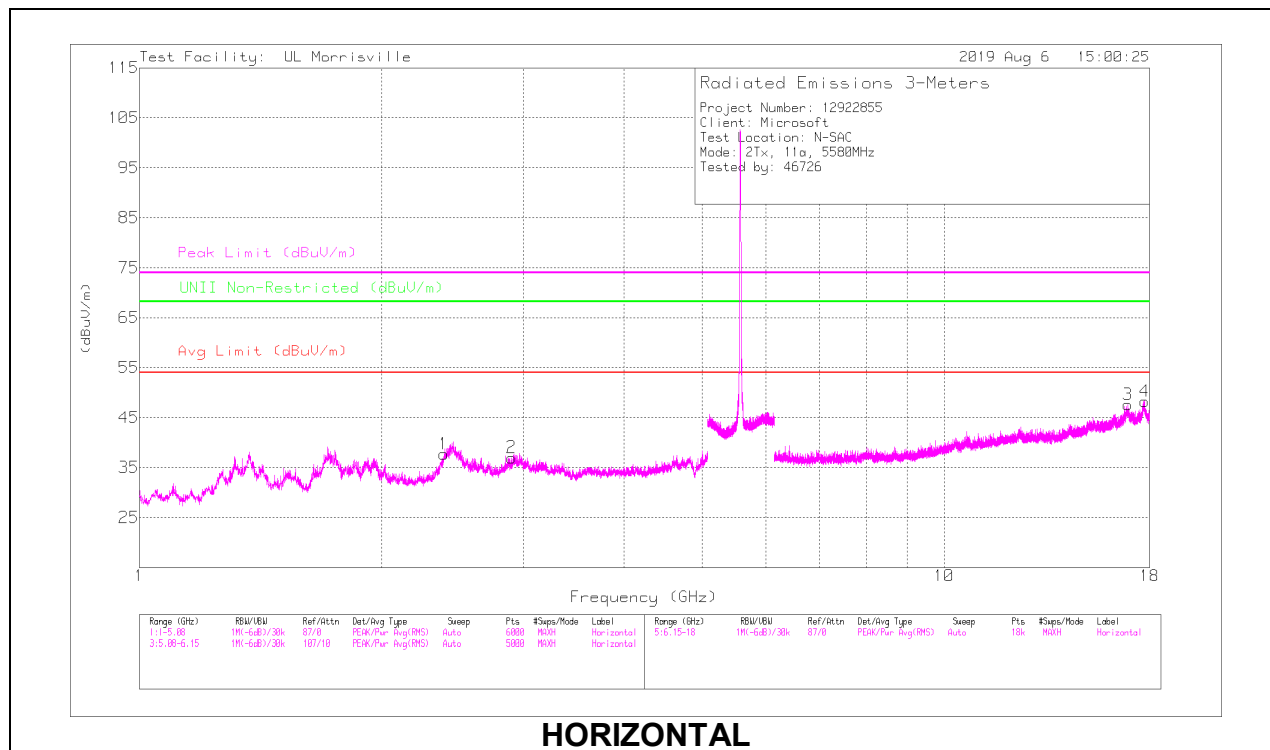
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38878	48.73	PK-U	32	-34.1	0	46.63	-	-	74	-27.37	-	-	119	260	H
	*** 2.38878	36.23	ADR	32	-34.1	.1	34.23	54	-19.77	-	-	-	-	119	260	H
2	*** 2.89772	46.08	PK-U	32.6	-33.7	0	44.98	-	-	74	-29.02	-	-	71	138	H
	*** 2.89771	34.13	ADR	32.6	-33.7	.1	33.13	54	-20.87	-	-	-	-	71	138	H
5	*** 2.3845	51.19	PK-U	32	-34	0	49.19	-	-	74	-24.81	-	-	34	216	V
	*** 2.38447	38.95	ADR	32	-34	.1	37.05	54	-16.95	-	-	-	-	34	216	V
6	*** 2.88177	49.56	PK-U	32.6	-33.8	0	48.36	-	-	74	-25.64	-	-	33	233	V
	*** 2.88176	37.5	ADR	32.6	-33.8	.1	36.4	54	-17.6	-	-	-	-	33	233	V
4	*** 17.75083	34.62	PK-U	41.1	-20.7	0	55.02	-	-	74	-18.98	-	-	122	130	H
	*** 17.75082	22.09	ADR	41.1	-20.7	.1	42.59	54	-11.41	-	-	-	-	122	130	H
8	*** 17.74198	34.36	PK-U	41.1	-20.4	0	55.06	-	-	74	-18.94	-	-	247	269	V
	*** 17.74198	22.3	ADR	41.1	-20.4	.1	43.1	54	-10.9	-	-	-	-	247	269	V
7	16.90649	36.29	PK-U	41.3	-22.9	0	54.69	-	-	-	-	68.2	-13.51	49	215	V
3	16.91143	35.85	PK-U	41.3	-23.1	0	54.05	-	-	-	-	68.2	-14.15	72	122	H

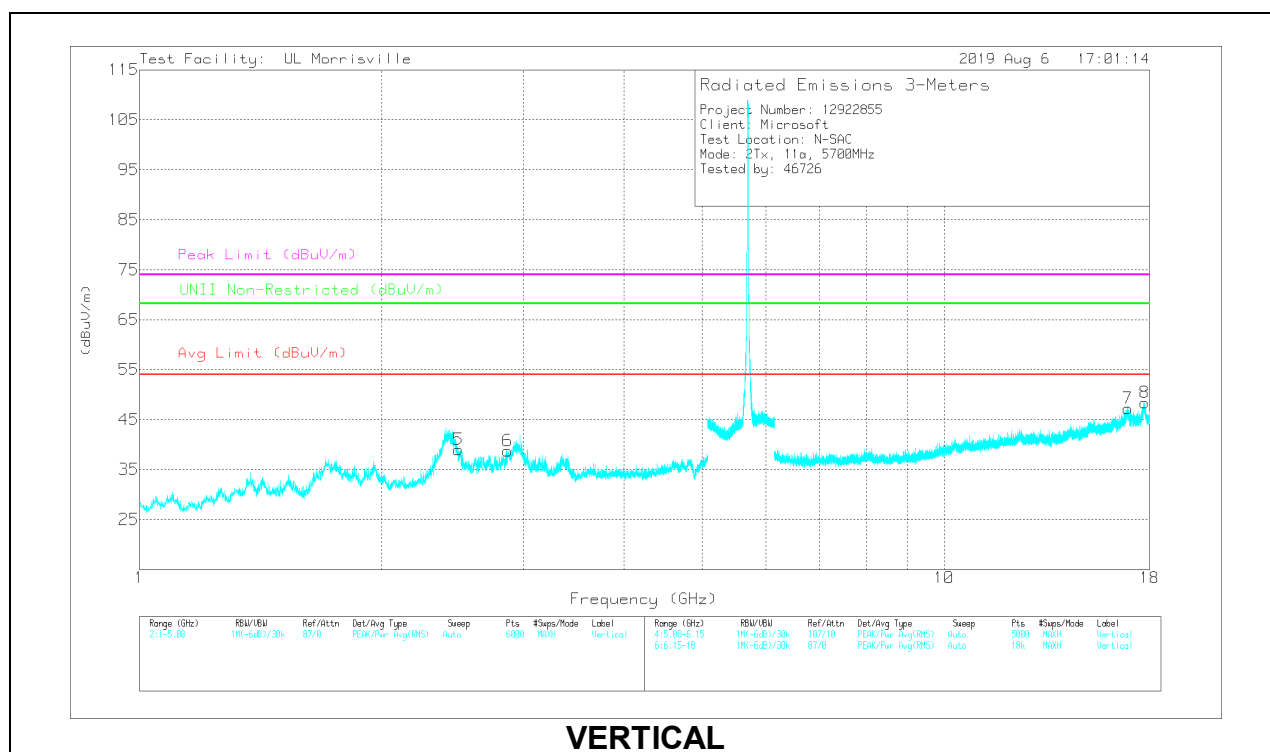
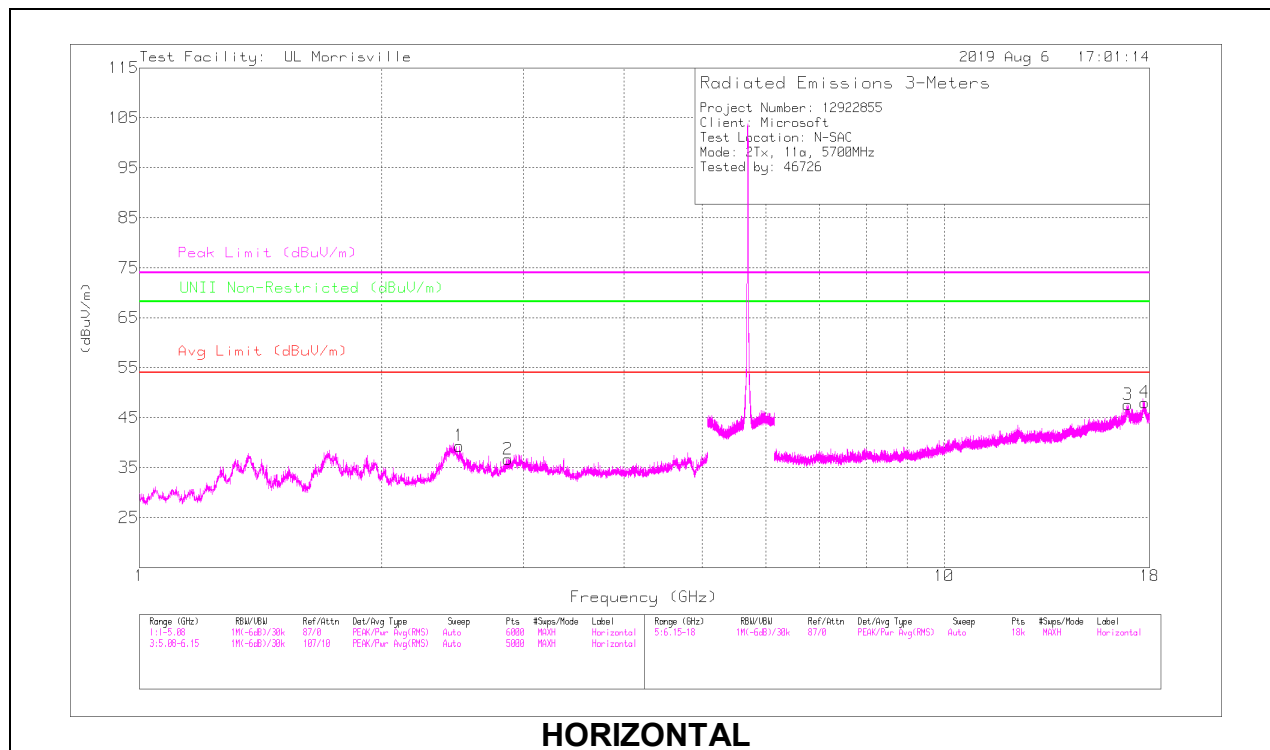
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.49607	48.66	PK-U	32.5	-34.2	0	46.96	-	-	74	-27.04	-	-	278	221	H
	*** 2.49604	36.14	ADR	32.5	-34.2	.1	34.54	54	-19.46	-	-	-	-	278	221	H
2	*** 2.87	46.63	PK-U	32.5	-33.9	0	45.23	-	-	74	-28.77	-	-	72	126	H
	*** 2.86998	34.65	ADR	32.5	-33.9	.1	33.35	54	-20.65	-	-	-	-	72	126	H
5	*** 2.48887	50.19	PK-U	32.4	-34.2	0	48.39	-	-	74	-25.61	-	-	25	246	V
	*** 2.48885	38.3	ADR	32.4	-34.2	.1	36.6	54	-17.4	-	-	-	-	25	246	V
6	*** 2.86412	48.56	PK-U	32.5	-33.8	0	47.26	-	-	74	-26.74	-	-	24	245	V
	*** 2.86418	36.76	ADR	32.5	-33.8	.1	35.56	54	-18.44	-	-	-	-	24	245	V
4	*** 17.73836	34.52	PK-U	41.1	-20.3	0	55.32	-	-	74	-18.68	-	-	49	251	H
	*** 17.73834	21.99	ADR	41.1	-20.3	.1	42.89	54	-11.11	-	-	-	-	49	251	H
8	*** 17.74556	34.24	PK-U	41.1	-20.5	0	54.84	-	-	74	-19.16	-	-	320	294	V
	*** 17.74553	22.12	ADR	41.1	-20.5	.1	42.82	54	-11.18	-	-	-	-	320	294	V
7	16.9078	36.41	PK-U	41.3	-22.9	0	54.81	-	-	-	-	68.2	-13.39	304	378	V
3	16.91708	35.89	PK-U	41.4	-23.3	0	53.99	-	-	-	-	68.2	-14.21	0	100	H

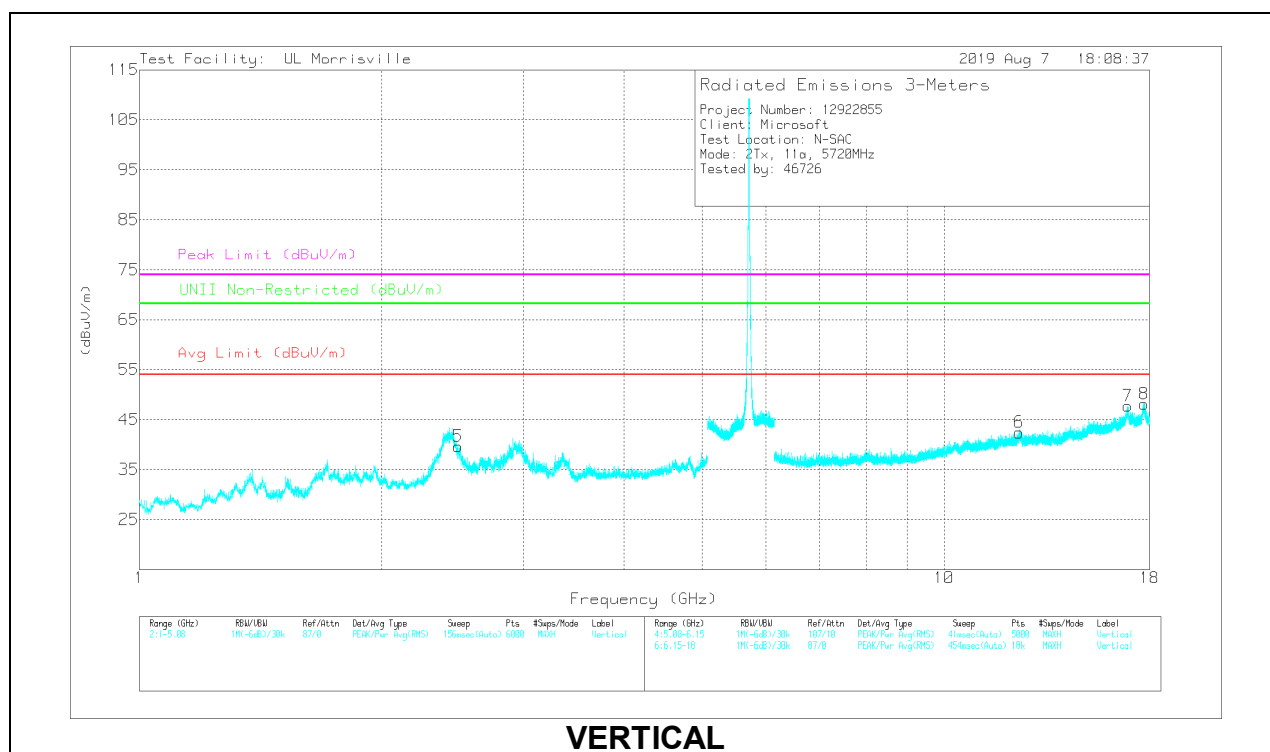
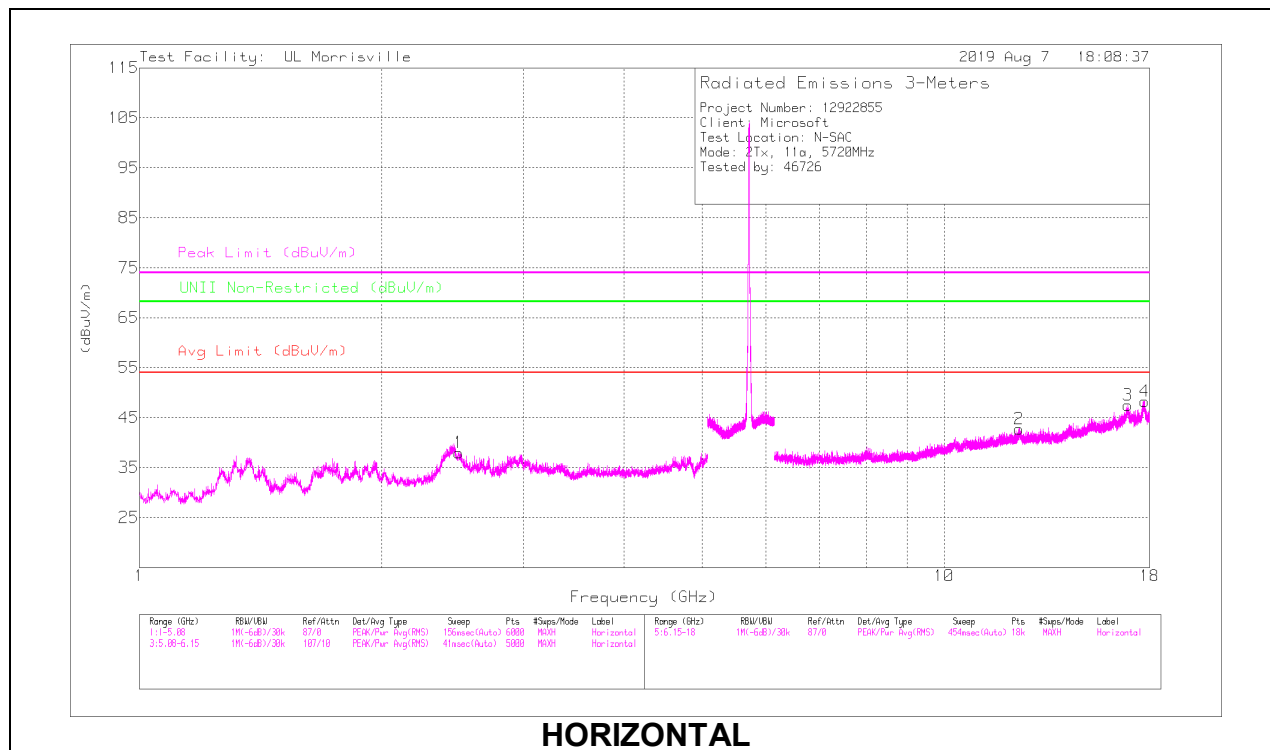
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

CHANNEL 144 RESULTS



RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.49469	47.86	PK-U	32.5	-34.2	0	46.16	-	-	74	-27.84	-	-	279	212	H
	*** 2.49466	35.88	ADR	32.5	-34.2	.1	34.28	54	-19.72	-	-	-	-	279	212	H
5	*** 2.49065	49.94	PK-U	32.4	-34.2	0	48.14	-	-	74	-25.86	-	-	21	267	V
	*** 2.49064	38.19	ADR	32.4	-34.2	.1	36.49	54	-17.51	-	-	-	-	21	267	V
2	*** 12.40542	34.94	PK-U	38.8	-24.9	0	48.84	-	-	74	-25.16	-	-	0	224	H
	*** 12.40541	23.21	ADR	38.8	-24.9	.1	37.21	54	-16.79	-	-	-	-	0	224	H
4	*** 17.73975	34.49	PK-U	41.1	-20.4	0	55.19	-	-	74	-18.81	-	-	46	270	H
	*** 17.73997	22.27	ADR	41.1	-20.4	.1	43.07	54	-10.93	-	-	-	-	46	270	H
6	*** 12.3865	35.18	PK-U	38.8	-25.2	0	48.78	-	-	74	-25.22	-	-	298	305	V
	*** 12.38653	23.24	ADR	38.8	-25.2	.1	36.94	54	-17.06	-	-	-	-	298	305	V
8	*** 17.73039	33.99	PK-U	41.1	-20.3	0	54.79	-	-	74	-19.21	-	-	11	331	V
	*** 17.73037	22.03	ADR	41.1	-20.3	.1	42.93	54	-11.07	-	-	-	-	11	331	V
7	16.90788	35.62	PK-U	41.3	-22.9	0	54.02	-	-	-	-	68.2	-14.18	76	231	V
3	16.91502	35.7	PK-U	41.4	-23.2	0	53.9	-	-	-	-	68.2	-14.3	356	214	H

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

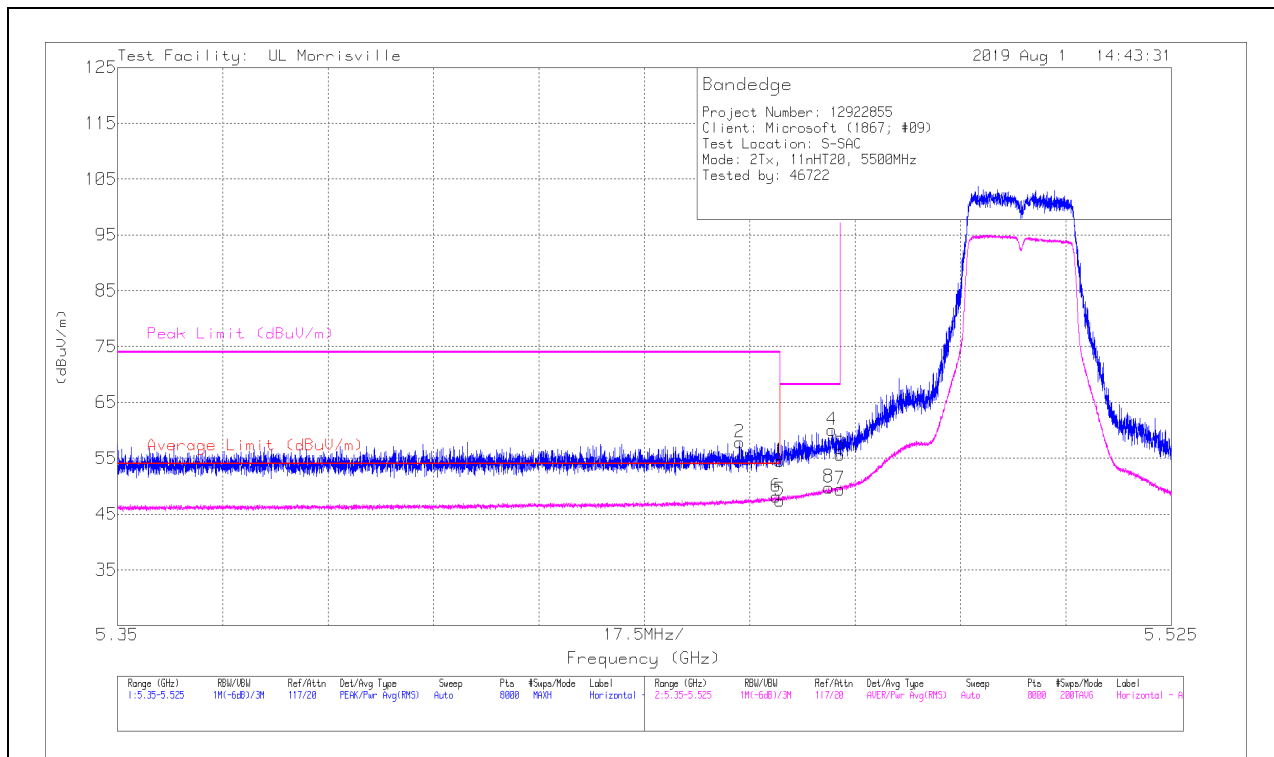
ADR - U-NII AD primary method, RMS average

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

2TX Antenna 1 + Antenna 2 SDM MODE

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (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	*** 5.45998	43.39	Pk	34.5	-23.4	0	54.49	-	-	74	-19.51	323	360	H
2	*** 5.45331	46.62	Pk	34.5	-23.3	0	57.82	-	-	74	-16.18	323	360	H
5	*** 5.45998	36.35	RMS	34.5	-23.4	0	47.45	54	-6.55	-	-	323	360	H
6	*** 5.45932	37.06	RMS	34.5	-23.4	0	48.16	54	-5.84	-	-	323	360	H
8	5.46808	38.78	RMS	34.5	-23.5	0	49.78	-	-	-	-	323	360	H
4	5.4686	49.08	Pk	34.5	-23.5	0	60.08	-	-	68.2	-8.12	323	360	H
3	5.46998	44.68	Pk	34.5	-23.5	0	55.68	-	-	68.2	-12.52	323	360	H
7	5.46998	38.44	RMS	34.5	-23.5	0	49.44	-	-	-	-	323	360	H

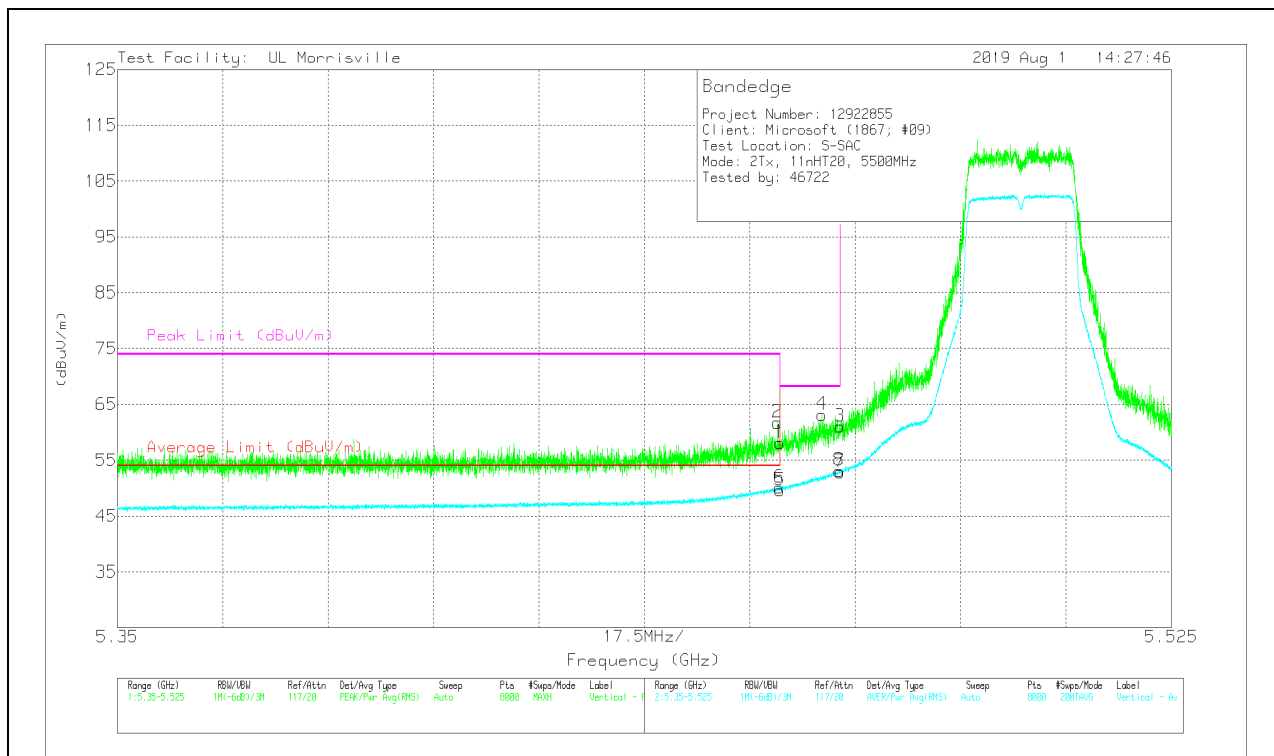
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (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	*** 5.45998	47.03	Pk	34.5	-23.4	0	58.13	-	-	74	-15.87	24	236	V
2	*** 5.45957	50.63	Pk	34.5	-23.4	0	61.73	-	-	74	-12.27	24	236	V
5	*** 5.45998	38.53	RMS	34.5	-23.4	0	49.63	54	-4.37	-	-	24	236	V
6	*** 5.45985	38.99	RMS	34.5	-23.4	0	50.09	54	-3.91	-	-	24	236	V
4	5.467	52.18	Pk	34.5	-23.5	0	63.18	-	-	68.2	-5.02	24	236	V
8	5.46983	42.11	RMS	34.5	-23.5	0	53.11	-	-	-	-	24	236	V
3	5.46998	50.04	Pk	34.5	-23.5	0	61.04	-	-	68.2	-7.16	24	236	V
7	5.46998	41.88	RMS	34.5	-23.5	0	52.88	-	-	-	-	24	236	V

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

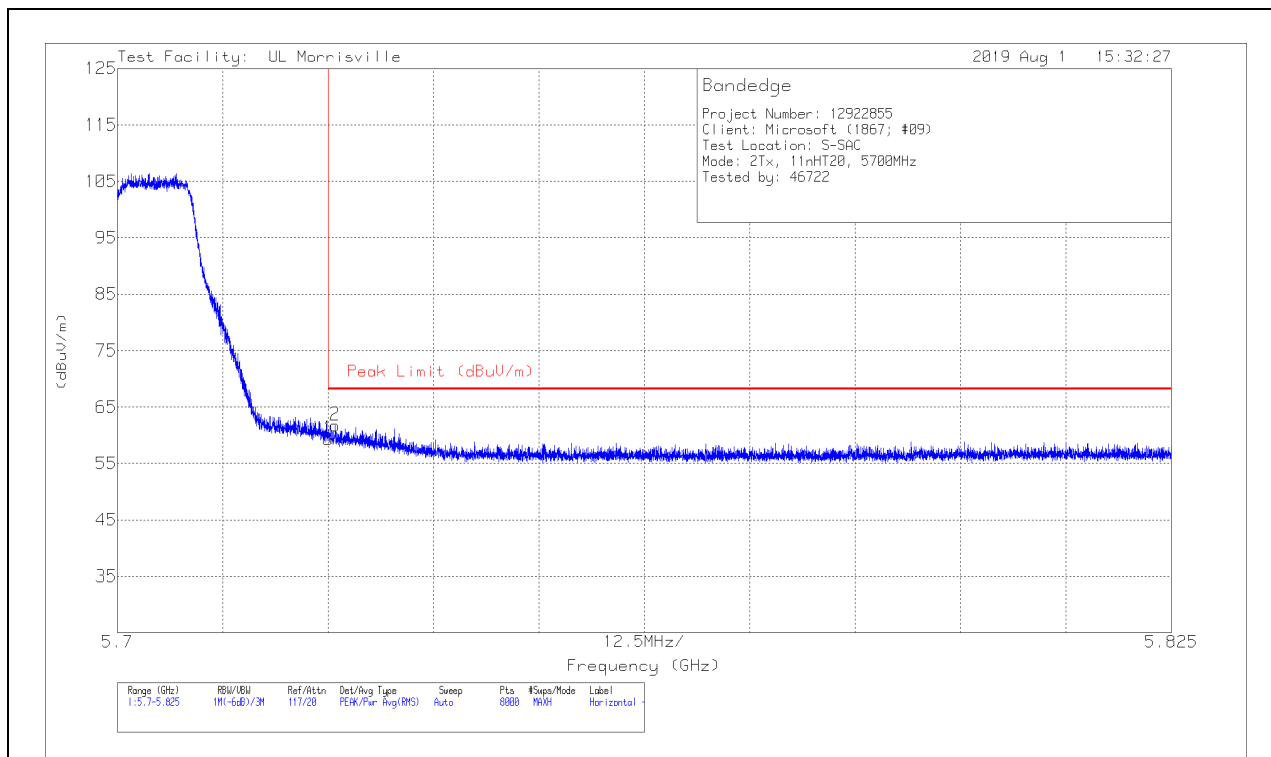
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



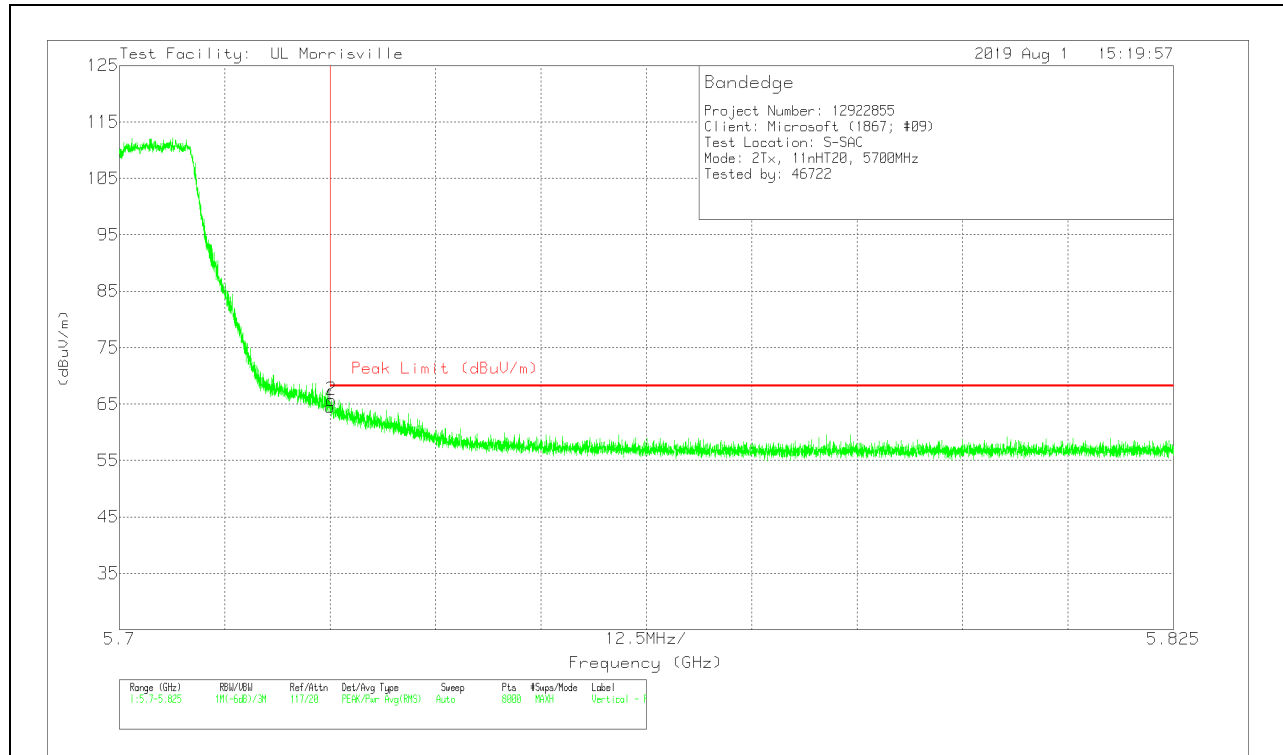
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	47.97	Pk	34.7	-23.3	0	59.37	68.2	-8.83	1	399	H
2	5.72583	50.38	Pk	34.7	-23.3	0	61.78	68.2	-6.42	1	399	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	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	53.1	Pk	34.7	-23.3	0	64.5	68.2	-3.7	347	208	V
2	5.72511	54.37	Pk	34.7	-23.3	0	65.77	68.2	-2.43	347	208	V

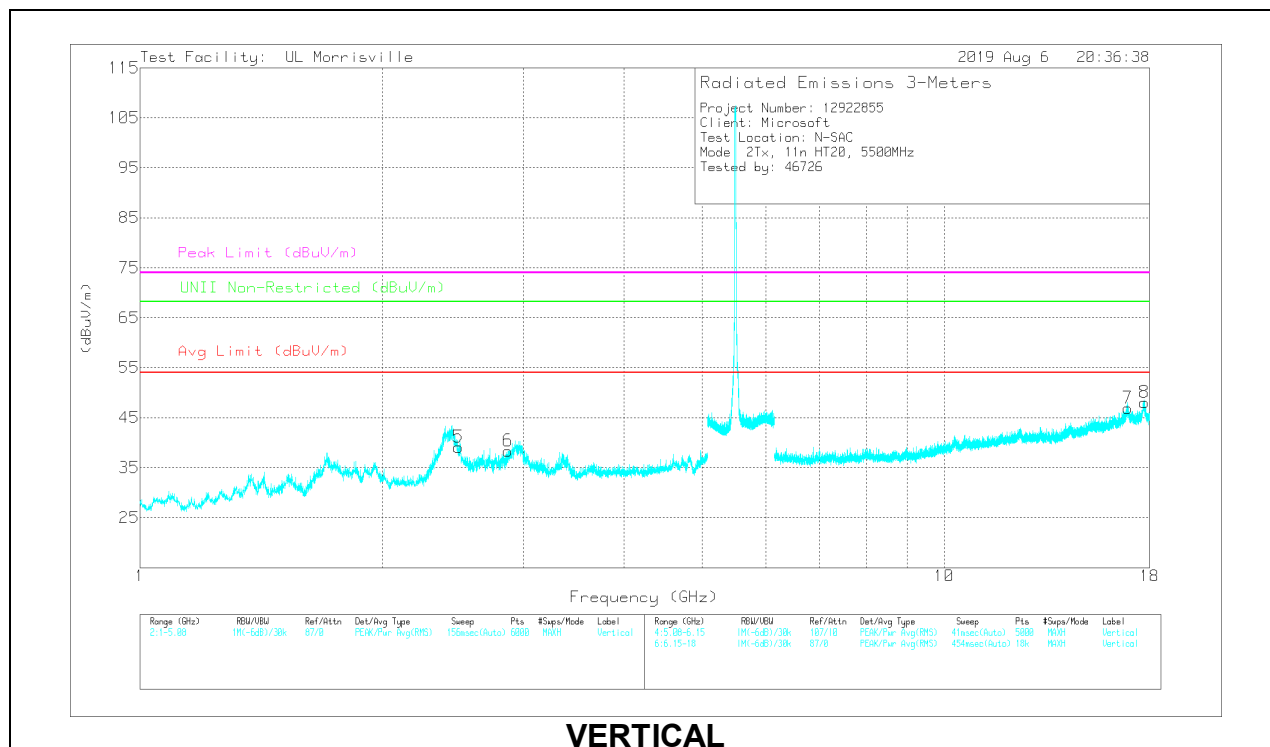
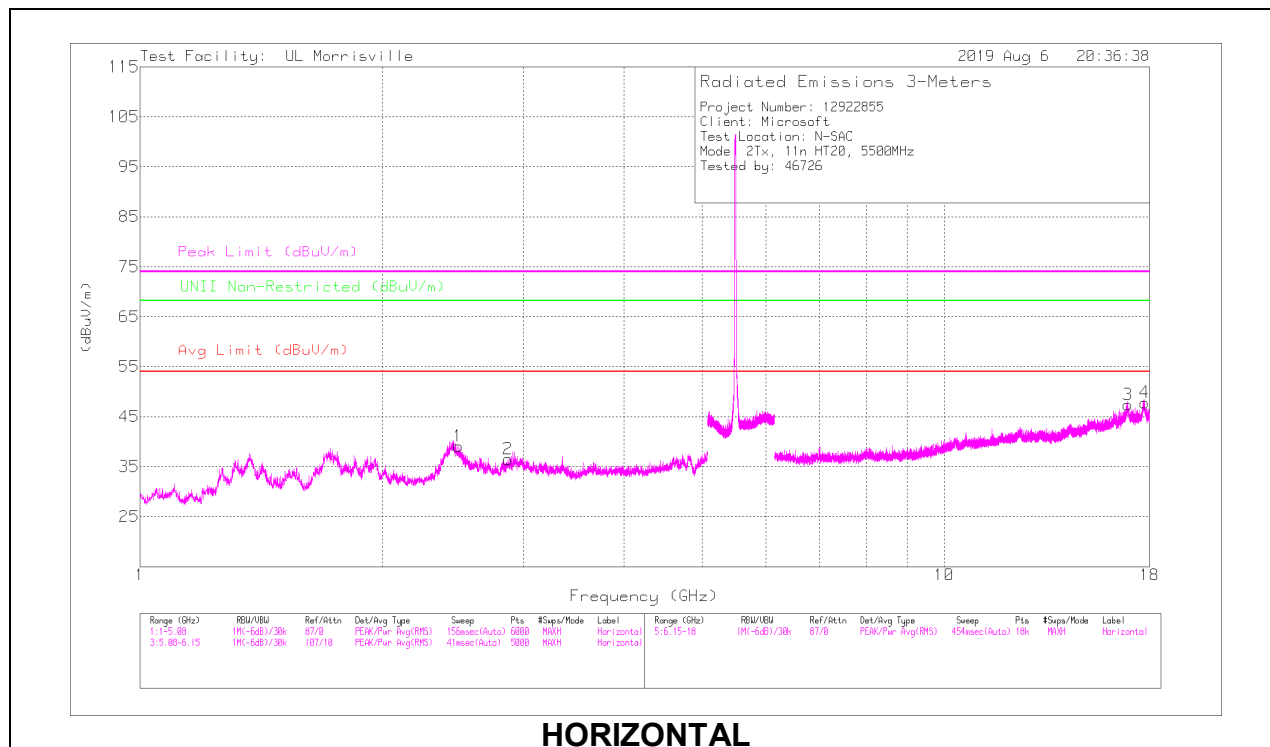
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.49494	49.08	PK-U	32.5	-34.2	47.38	-	-	74	-26.62	-	-	283	204	H
	* ** 2.49494	36.91	ADR	32.5	-34.2	35.21	54	-18.79	-	-	-	-	283	204	H
2	* ** 2.87002	45.87	PK-U	32.5	-33.9	44.47	-	-	74	-29.53	-	-	295	118	H
	* ** 2.87011	33.86	ADR	32.5	-33.9	32.46	54	-21.54	-	-	-	-	295	118	H
5	* ** 2.48996	51.51	PK-U	32.4	-34.2	49.71	-	-	74	-24.29	-	-	24	258	V
	* ** 2.48996	38.92	ADR	32.4	-34.2	37.12	54	-16.88	-	-	-	-	24	258	V
6	* ** 2.87155	50.01	PK-U	32.5	-33.9	48.61	-	-	74	-25.39	-	-	33	229	V
	* ** 2.87157	37.84	ADR	32.5	-33.9	36.44	54	-17.56	-	-	-	-	33	229	V
4	* ** 17.73267	34.41	PK-U	41.1	-20.3	55.21	-	-	74	-18.79	-	-	286	207	H
	* ** 17.73195	22.15	ADR	41.1	-20.3	42.95	54	-11.05	-	-	-	-	286	207	H
8	* ** 17.73781	34.24	PK-U	41.1	-20.3	55.04	-	-	74	-18.96	-	-	319	310	V
	* ** 17.73778	22.21	ADR	41.1	-20.3	43.01	54	-10.99	-	-	-	-	319	310	V
7	16.9097	36.56	PK-U	41.3	-23	54.86	-	-	-	-	68.2	-13.34	209	142	V
3	16.91019	36.03	PK-U	41.3	-23	54.33	-	-	-	-	68.2	-13.87	65	323	H

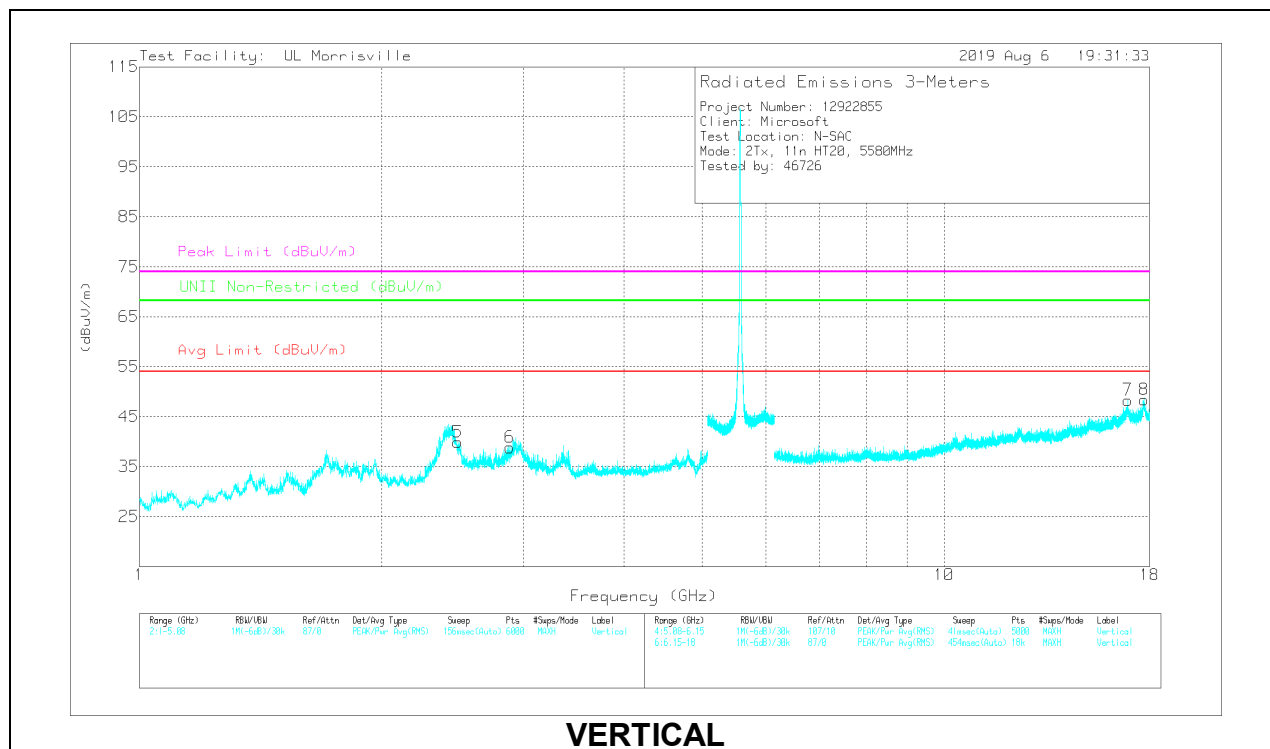
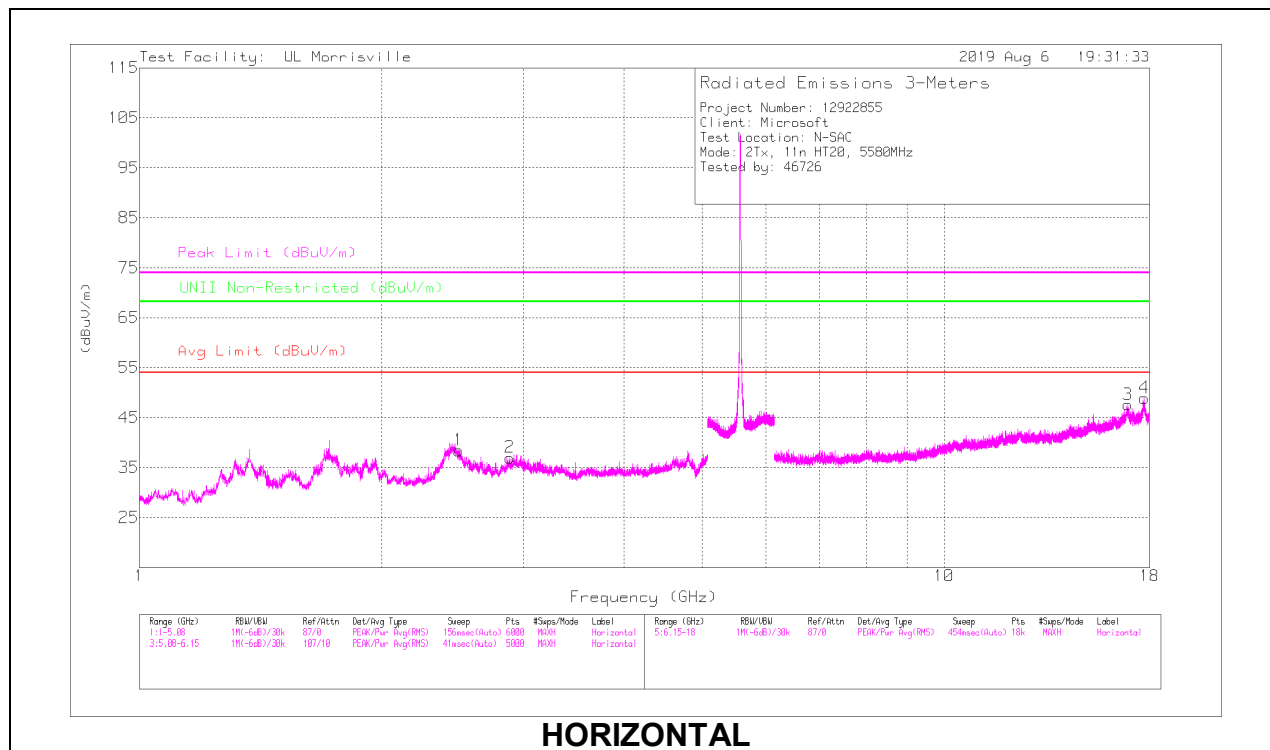
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.49759	48.9	PK-U	32.5	-34.2	47.2	-	-	74	-26.8	-	-	281	144	H
	* ** 2.49753	36.73	ADR	32.5	-34.2	35.03	54	-18.97	-	-	-	-	281	144	H
2	* ** 2.88208	41.99	PK-U	32.6	-33.8	40.79	-	-	74	-33.21	-	-	70	315	H
	* ** 2.88208	29.96	ADR	32.6	-33.8	28.76	54	-25.24	-	-	-	-	70	315	H
5	* ** 2.48491	51.17	PK-U	32.4	-34.2	49.37	-	-	74	-24.63	-	-	28	240	V
	* ** 2.48496	39.04	ADR	32.4	-34.2	37.24	54	-16.76	-	-	-	-	28	240	V
6	* ** 2.88811	48.61	PK-U	32.6	-33.8	47.41	-	-	74	-26.59	-	-	28	257	V
	* ** 2.88804	36.56	ADR	32.6	-33.8	35.36	54	-18.64	-	-	-	-	28	257	V
4	* ** 17.73602	33.97	PK-U	41.1	-20.3	54.77	-	-	74	-19.23	-	-	89	256	H
	* ** 17.73602	21.95	ADR	41.1	-20.3	42.75	54	-11.25	-	-	-	-	89	256	H
8	* ** 17.72151	34.37	PK-U	41.1	-20.5	54.97	-	-	74	-19.03	-	-	214	243	V
	* ** 17.72149	22.15	ADR	41.1	-20.5	42.75	54	-11.25	-	-	-	-	214	243	V
7	16.89957	36.23	PK-U	41.3	-22.9	54.63	-	-	-	-	68.2	-13.57	13	271	V
3	16.90537	35.49	PK-U	41.3	-22.8	53.99	-	-	-	-	68.2	-14.21	356	236	H

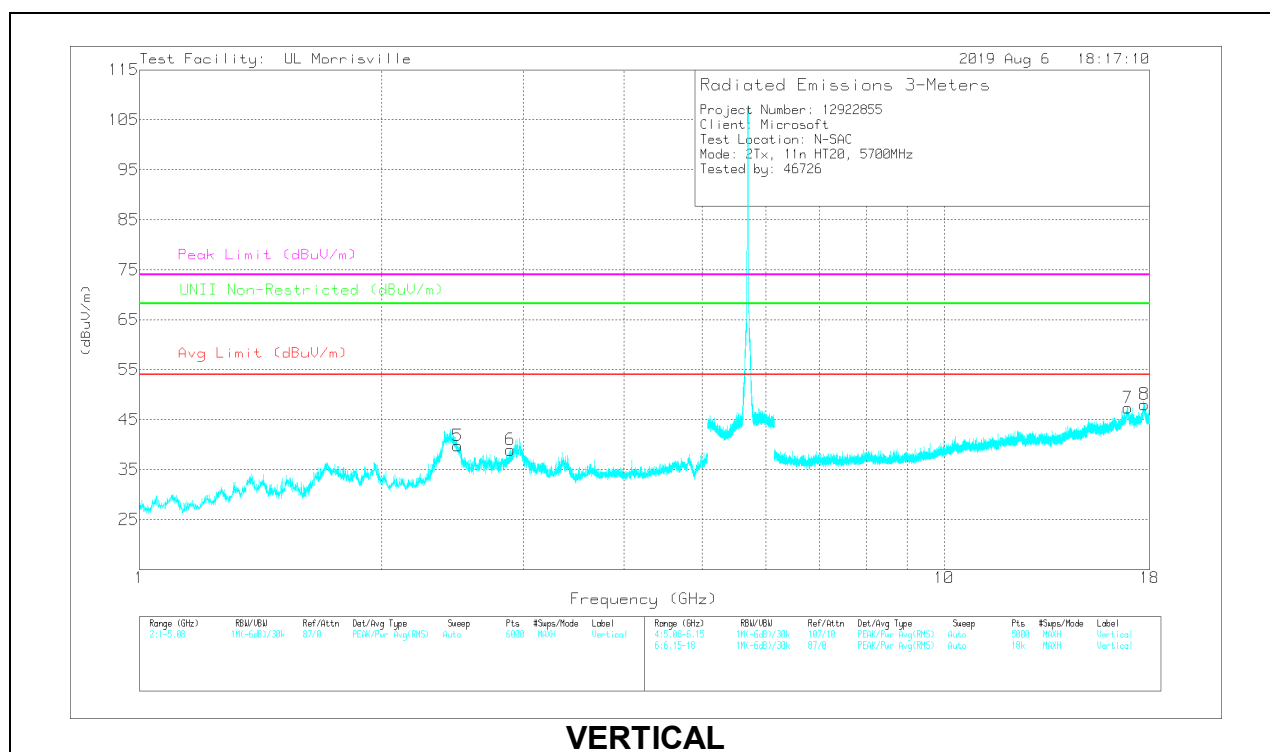
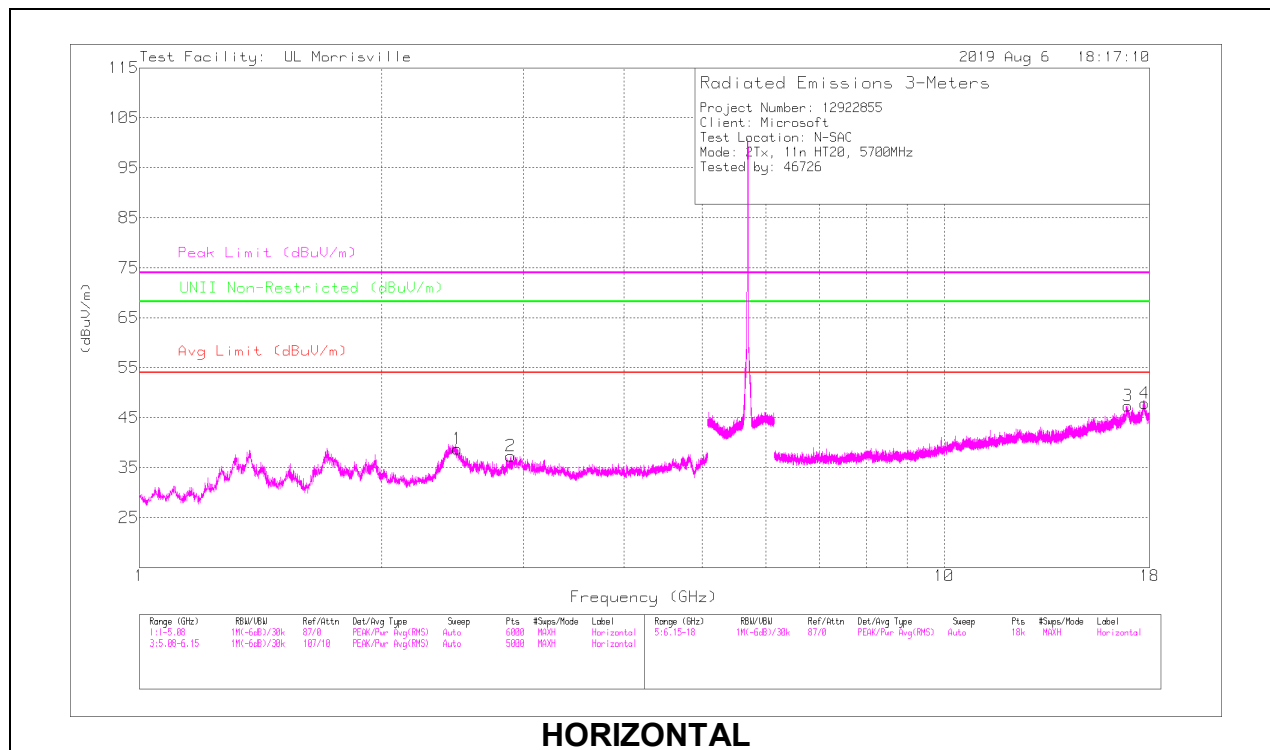
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.48809	48.76	PK-U	32.4	-34.2	46.96	-	-	74	-27.04	-	-	285	231	H
	* ** 2.48808	36.57	ADR	32.4	-34.2	34.77	54	-19.23	-	-	-	-	285	231	H
2	* ** 2.895	44.07	PK-U	32.6	-33.7	42.97	-	-	74	-31.03	-	-	110	116	H
	* ** 2.89499	32.11	ADR	32.6	-33.7	31.01	54	-22.99	-	-	-	-	110	116	H
5	* ** 2.48687	50.79	PK-U	32.4	-34.2	48.99	-	-	74	-25.01	-	-	19	237	V
	* ** 2.48691	38.84	ADR	32.4	-34.2	37.04	54	-16.96	-	-	-	-	19	237	V
6	* ** 2.88751	47.87	PK-U	32.6	-33.8	46.67	-	-	74	-27.33	-	-	29	220	V
	* ** 2.88752	36.3	ADR	32.6	-33.8	35.1	54	-18.9	-	-	-	-	29	220	V
4	* ** 17.74473	34.33	PK-U	41.1	-20.5	54.93	-	-	74	-19.07	-	-	86	197	H
	* ** 17.74471	22.14	ADR	41.1	-20.5	42.74	54	-11.26	-	-	-	-	86	197	H
8	* ** 17.73192	34.05	PK-U	41.1	-20.3	54.85	-	-	74	-19.15	-	-	148	132	V
	* ** 17.7319	21.85	ADR	41.1	-20.3	42.65	54	-11.35	-	-	-	-	148	132	V
3	16.91068	35.4	PK-U	41.3	-23	53.7	-	-	-	-	68.2	-14.5	216	352	H
7	16.92137	36.14	PK-U	41.4	-23.4	54.14	-	-	-	-	68.2	-14.06	144	227	V

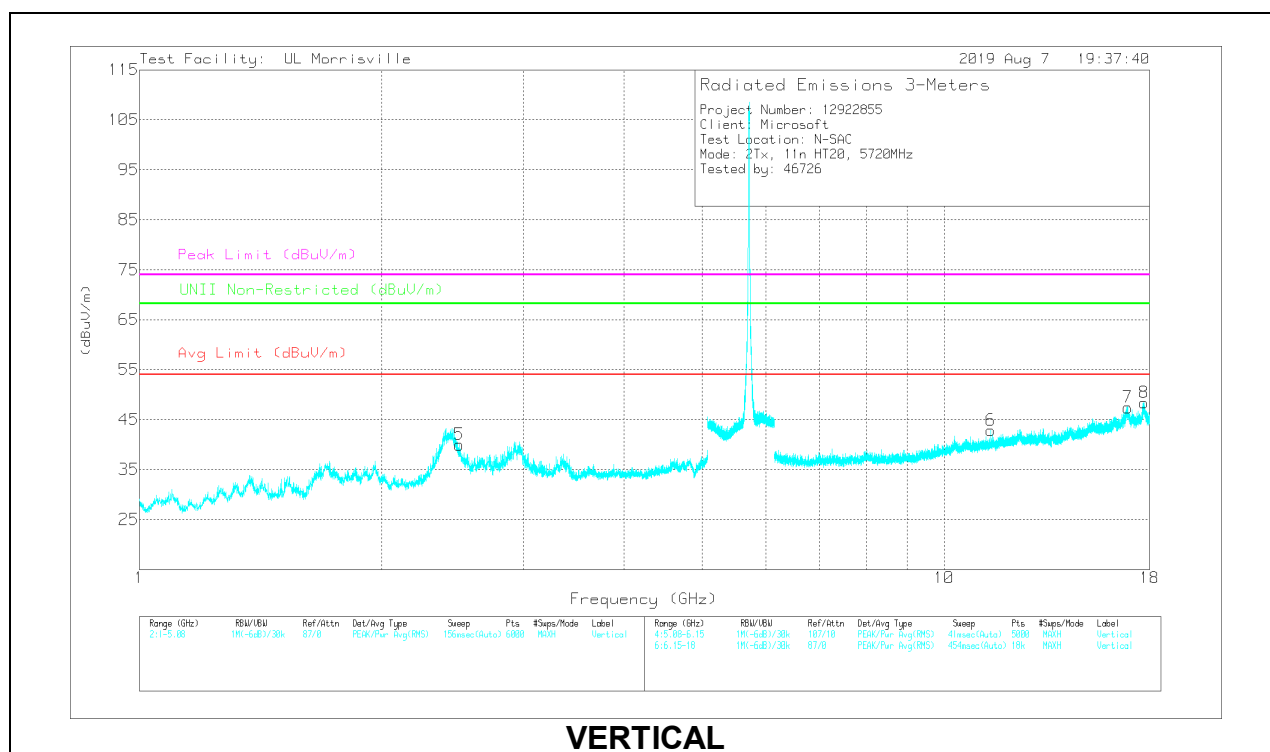
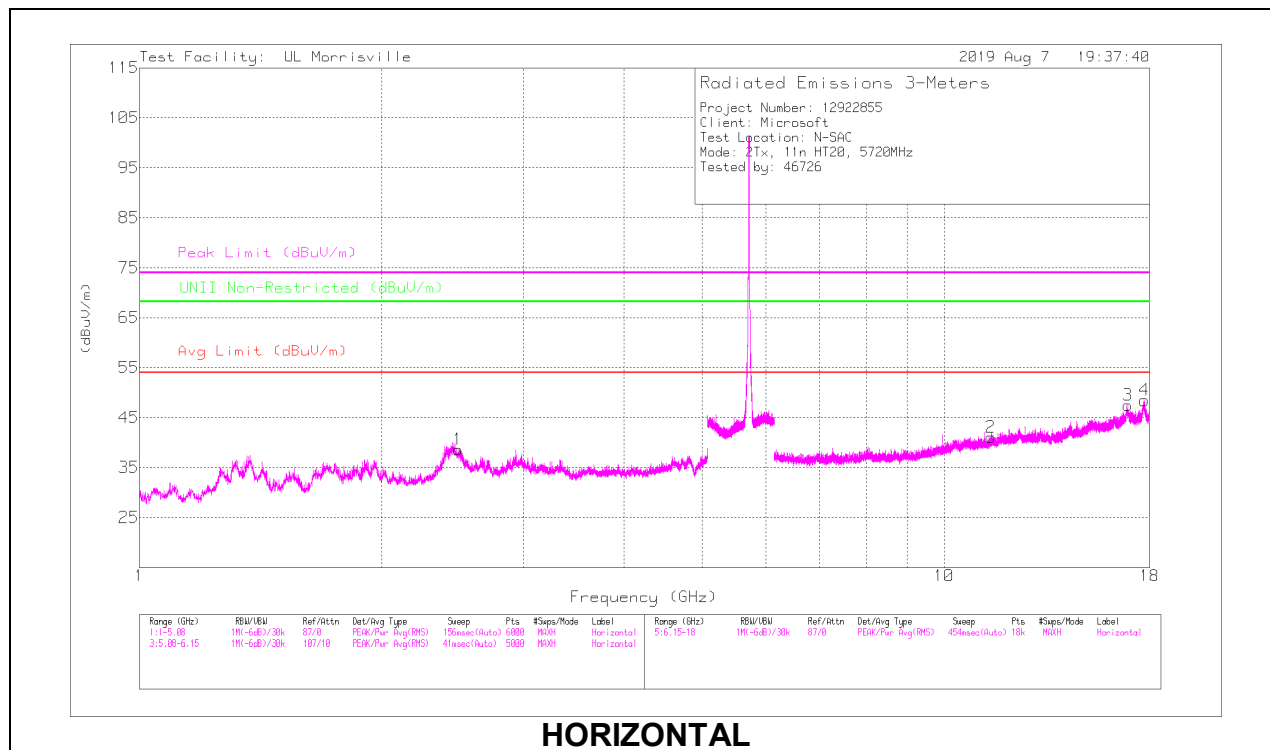
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

CHANNEL 144 RESULTS



RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.4958	48.05	PK-U	32.5	-34.2	46.35	-	-	74	-27.65	-	-	275	255	H
	* ** 2.49578	35.86	ADR	32.5	-34.2	34.16	54	-19.84	-	-	-	-	275	255	H
5	* ** 2.49601	51.46	PK-U	32.5	-34.2	49.76	-	-	74	-24.24	-	-	20	231	V
	* ** 2.49603	39.1	ADR	32.5	-34.2	37.4	54	-16.6	-	-	-	-	20	231	V
2	* ** 11.43129	39.46	PK-U	38.1	-25.8	51.76	-	-	74	-22.24	-	-	254	344	H
	* ** 11.43128	26.5	ADR	38.1	-25.8	38.8	54	-15.2	-	-	-	-	254	344	H
4	* ** 17.72964	34.48	PK-U	41.1	-20.3	55.28	-	-	74	-18.72	-	-	169	188	H
	* ** 17.72968	22.03	ADR	41.1	-20.3	42.83	54	-11.17	-	-	-	-	169	188	H
6	* ** 11.43712	37.16	PK-U	38.1	-25.7	49.56	-	-	74	-24.44	-	-	339	111	V
	* ** 11.4371	24.55	ADR	38.1	-25.7	36.95	54	-17.05	-	-	-	-	339	111	V
8	* ** 17.71352	34.04	PK-U	41.1	-20.8	54.34	-	-	74	-19.66	-	-	305	317	V
	* ** 17.71355	22.23	ADR	41.1	-20.8	42.53	54	-11.47	-	-	-	-	305	317	V
3	16.91092	36.16	PK-U	41.3	-23	54.46	-	-	-	-	68.2	-13.74	103	256	H
7	16.91469	36.49	PK-U	41.4	-23.2	54.69	-	-	-	-	68.2	-13.51	318	295	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

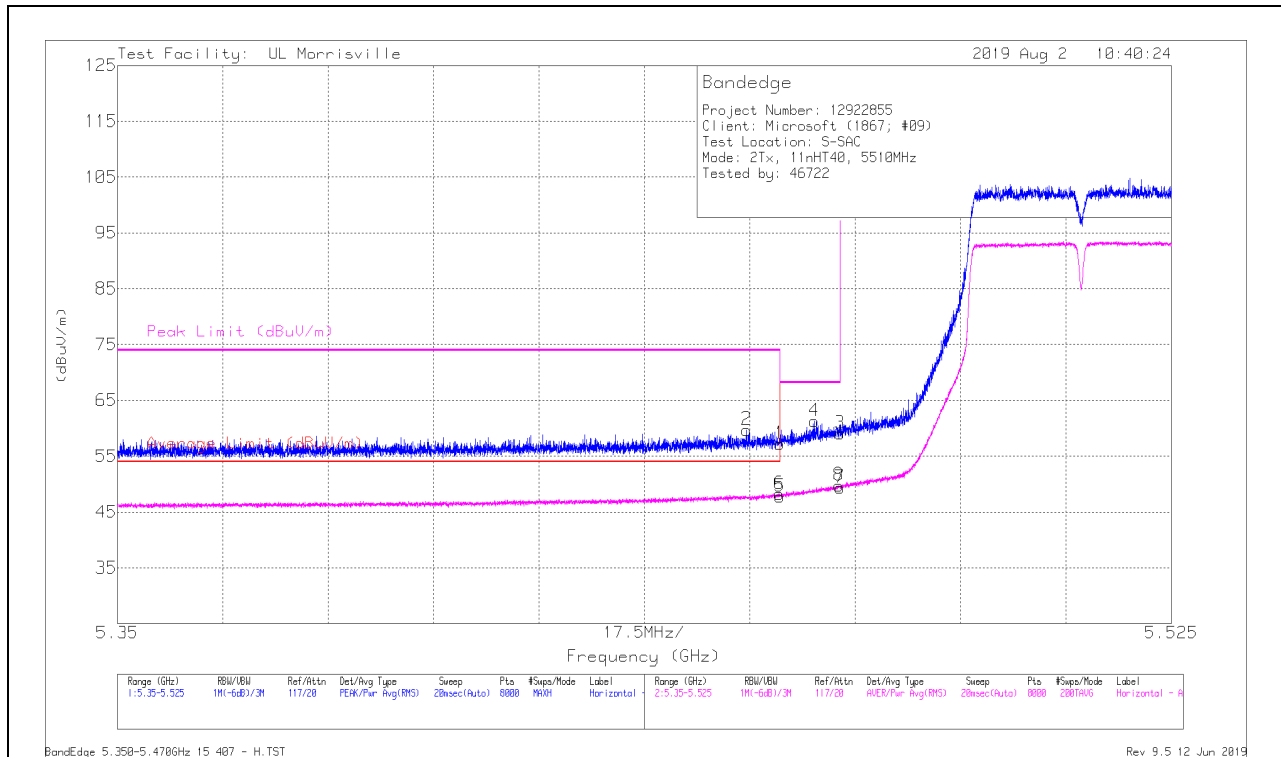
ADR - U-NII AD primary method, RMS average

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

2TX Antenna 1 + Antenna 2 SDM MODE

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (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	*** 5.45998	46.11	Pk	34.5	-23.4	0	57.21	-	-	74	-16.79	19	387	H
2	*** 5.45442	48.62	Pk	34.5	-23.4	0	59.72	-	-	74	-14.28	19	387	H
5	*** 5.45998	36.67	RMS	34.5	-23.4	0	47.77	54	-6.23	-	-	19	387	H
6	*** 5.45992	37.18	RMS	34.5	-23.4	0	48.28	54	-5.72	-	-	19	387	H
4	5.46574	50.31	Pk	34.5	-23.5	0	61.31	-	-	68.2	-6.89	19	387	H
8	5.46974	38.76	RMS	34.5	-23.5	0	49.76	-	-	-	-	19	387	H
3	5.46998	48.03	Pk	34.5	-23.5	0	59.03	-	-	68.2	-9.17	19	387	H
7	5.46998	38.39	RMS	34.5	-23.5	0	49.39	-	-	-	-	19	387	H

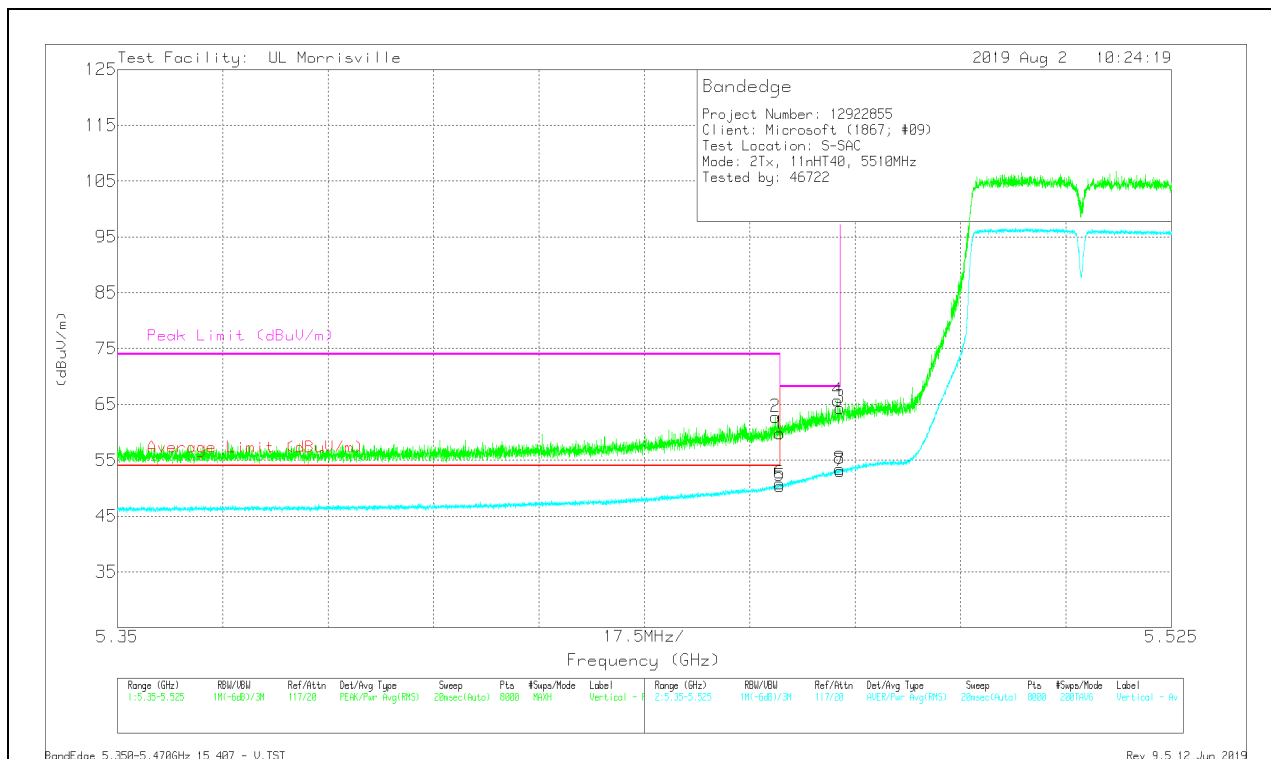
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (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	*** 5.45998	48.7	Pk	34.5	-23.4	0	59.8	-	-	74	-14.2	61	275	V
2	*** 5.45924	51.65	Pk	34.5	-23.4	0	62.75	-	-	74	-11.25	61	275	V
5	*** 5.45998	39.21	RMS	34.5	-23.4	0	50.31	54	-3.69	-	-	61	275	V
6	*** 5.45994	39.7	RMS	34.5	-23.4	0	50.8	54	-3.2	-	-	61	275	V
4	5.46959	54.72	Pk	34.5	-23.5	0	65.72	-	-	68.2	-2.48	61	275	V
8	5.46994	42.38	RMS	34.5	-23.5	0	53.38	-	-	-	-	61	275	V
3	5.46998	53.39	Pk	34.5	-23.5	0	64.39	-	-	68.2	-3.81	61	275	V
7	5.46998	42.05	RMS	34.5	-23.5	0	53.05	-	-	-	-	61	275	V

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

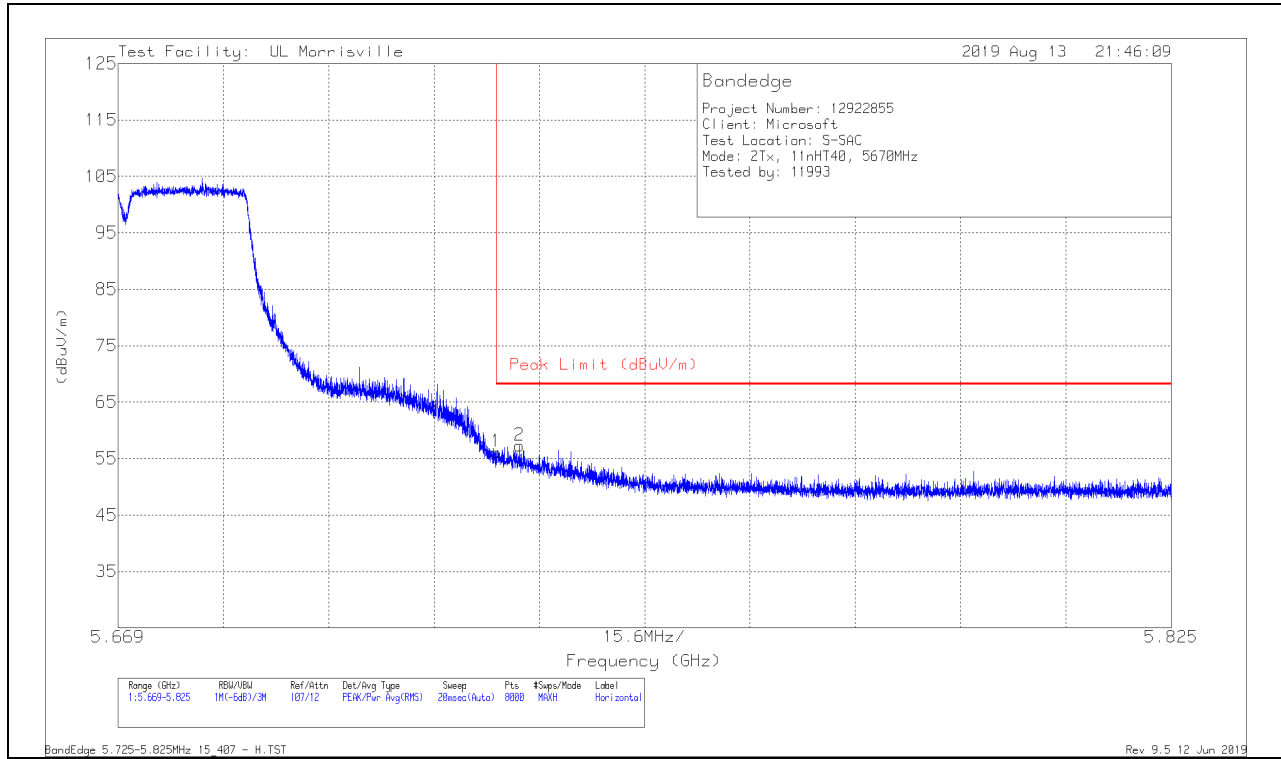
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

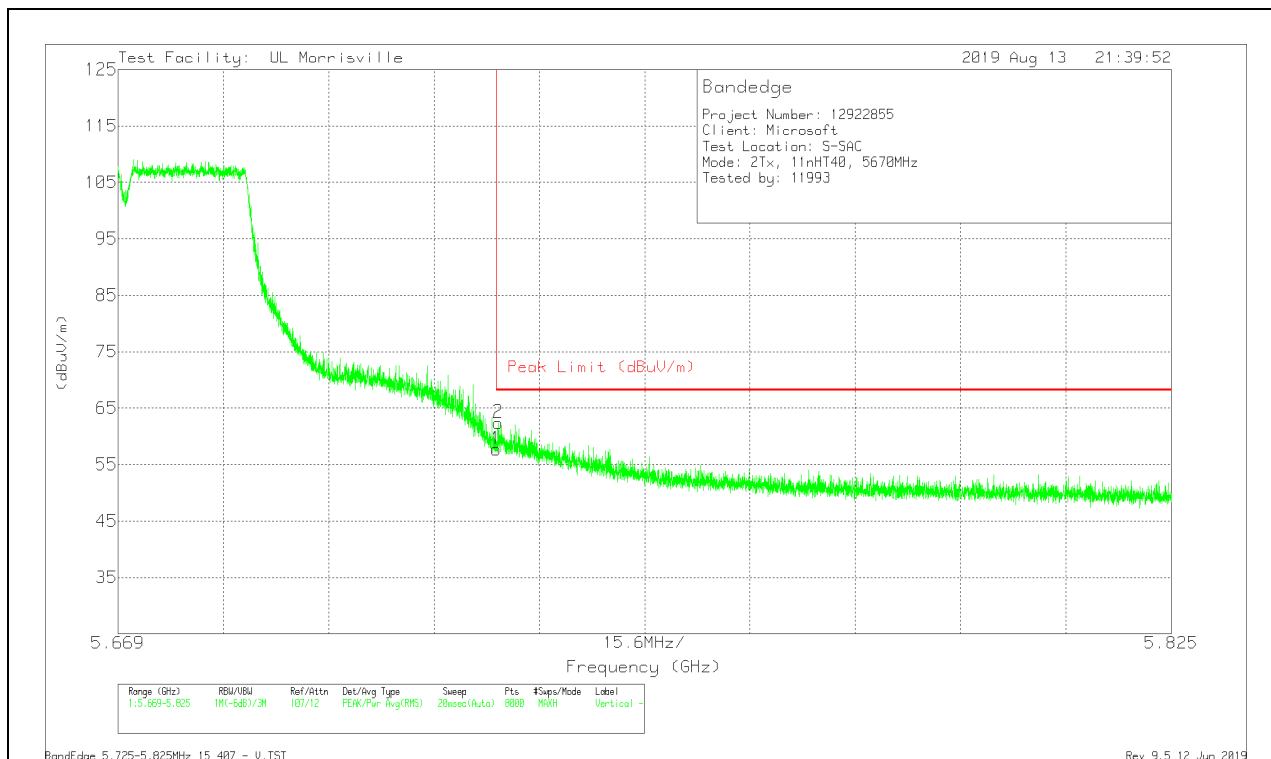
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72501	44.75	Pk	34.7	-23.3	56.15	68.2	-12.05	308	332	H
2	5.72848	45.81	Pk	34.7	-23.2	57.31	68.2	-10.89	308	332	H

Pk - Peak detector

VERTICAL RESULT

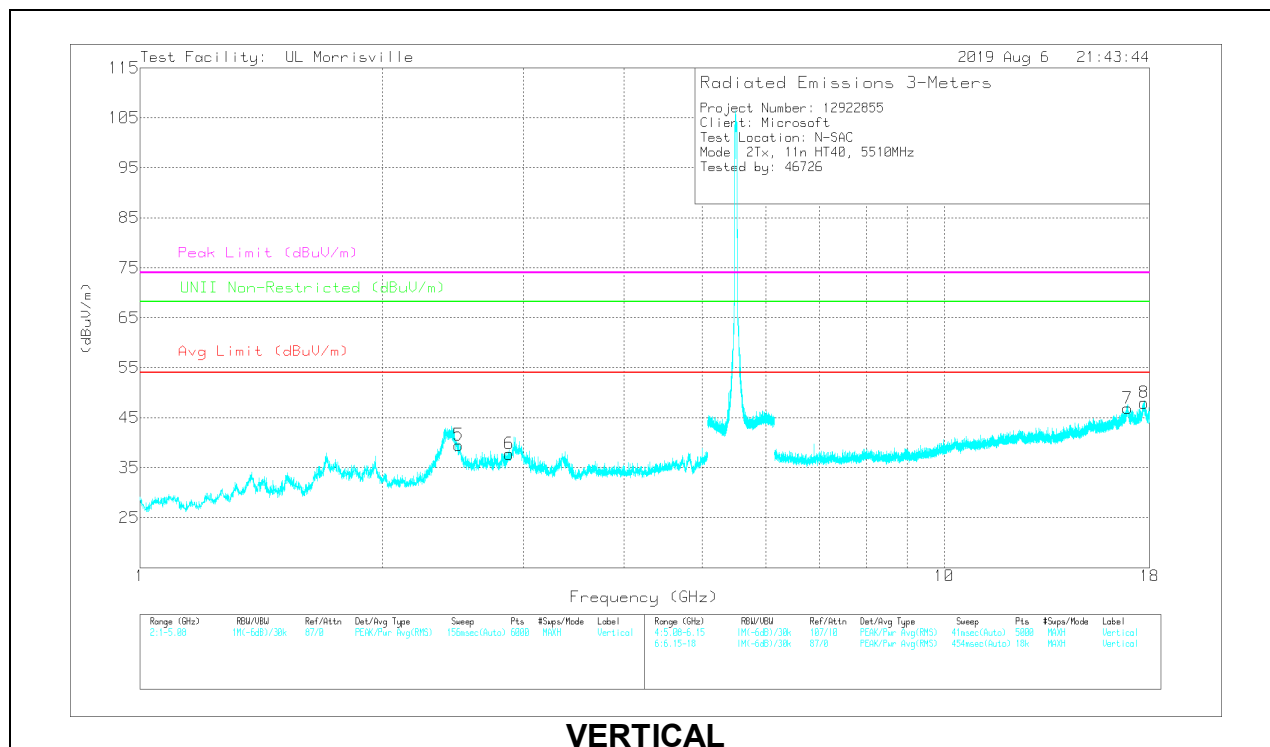
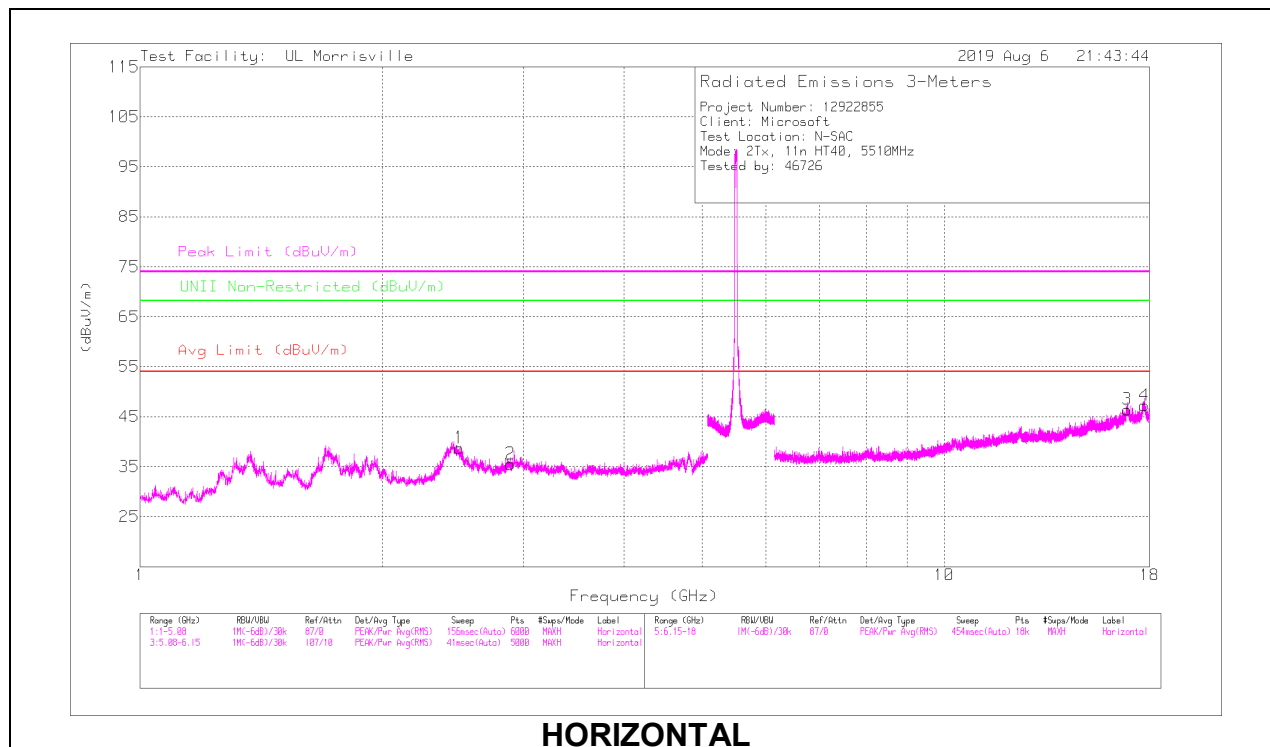


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72501	46.34	Pk	34.7	-23.3	57.74	68.2	-10.46	338	246	V
2	5.7253	51.02	Pk	34.7	-23.3	62.42	68.2	-5.78	338	246	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.48613	48.98	PK-U	32.4	-34.2	47.18	-	-	74	-26.82	-	-	283	172	H
	* ** 2.48611	37.07	ADR	32.4	-34.2	35.27	54	-18.73	-	-	-	-	283	172	H
2	* ** 2.88586	46.01	PK-U	32.6	-33.8	44.81	-	-	74	-29.19	-	-	72	145	H
	* ** 2.88587	34.3	ADR	32.6	-33.8	33.1	54	-20.9	-	-	-	-	72	145	H
5	* ** 2.4862	50.94	PK-U	32.4	-34.2	49.14	-	-	74	-24.86	-	-	27	239	V
	* ** 2.48625	38.91	ADR	32.4	-34.2	37.11	54	-16.89	-	-	-	-	27	239	V
6	* ** 2.88573	49.61	PK-U	32.6	-33.8	48.41	-	-	74	-25.59	-	-	35	209	V
	* ** 2.88586	37.01	ADR	32.6	-33.8	35.81	54	-18.19	-	-	-	-	35	209	V
4	* ** 17.73962	34.29	PK-U	41.1	-20.4	54.99	-	-	74	-19.01	-	-	290	381	H
	* ** 17.73962	22.21	ADR	41.1	-20.4	42.91	54	-11.09	-	-	-	-	290	381	H
8	* ** 17.73159	34.67	PK-U	41.1	-20.3	55.47	-	-	74	-18.53	-	-	133	153	V
	* ** 17.73154	22.02	ADR	41.1	-20.3	42.82	54	-11.18	-	-	-	-	133	153	V
3	16.88049	35.25	PK-U	41.3	-23.2	53.35	-	-	-	-	68.2	-14.85	6	357	H
7	16.90299	35.77	PK-U	41.3	-22.9	54.17	-	-	-	-	68.2	-14.03	213	217	V

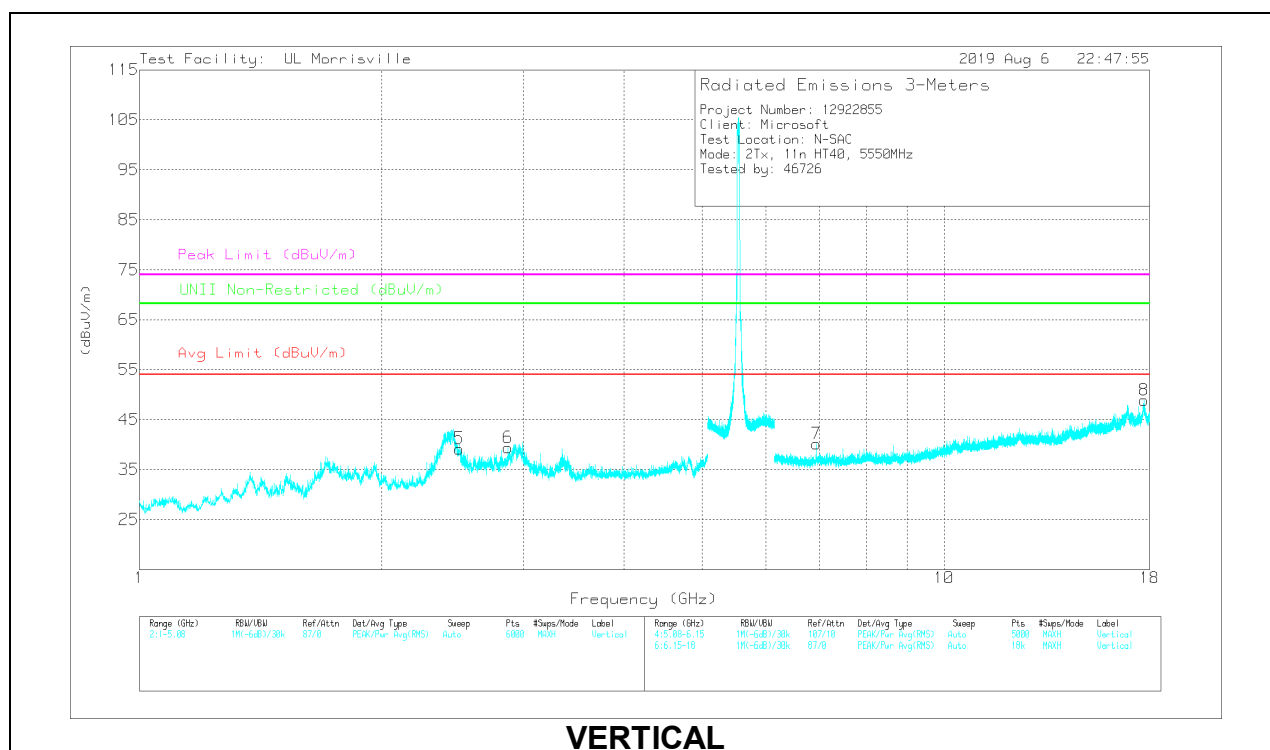
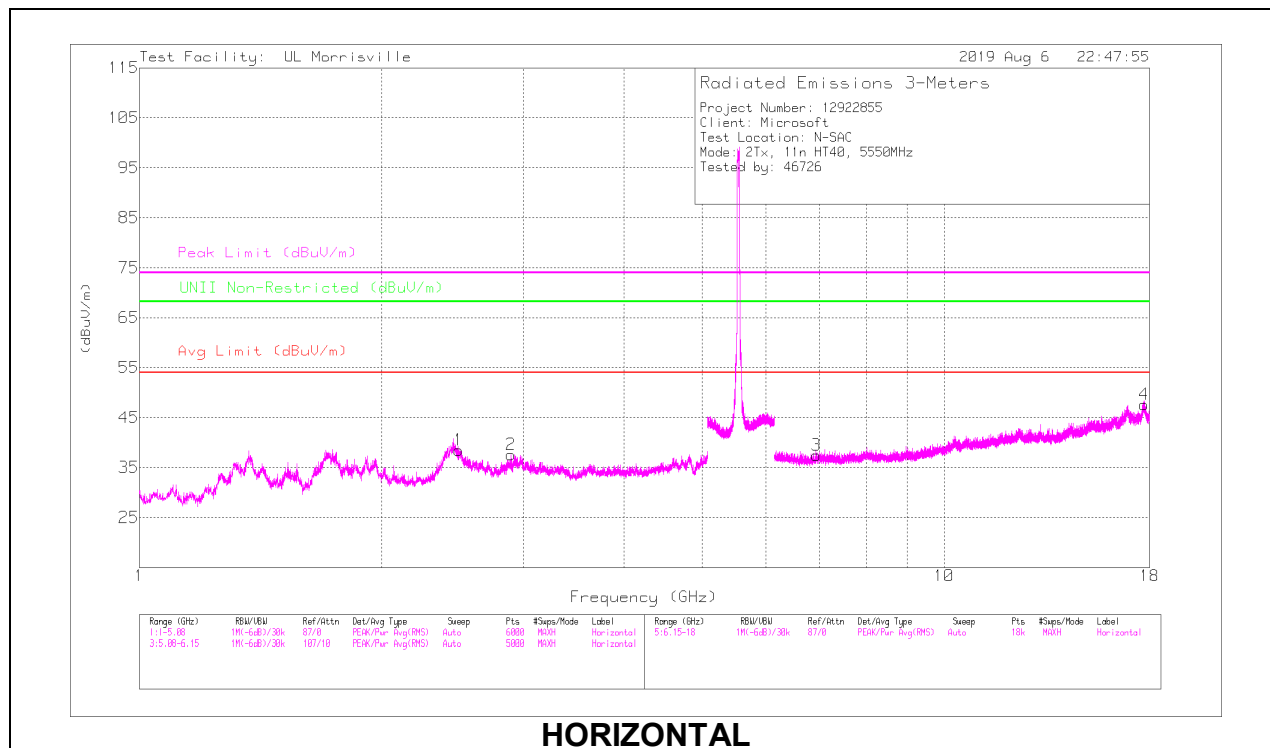
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.48646	48.8	PK-U	32.4	-34.2	47	-	-	74	-27	-	-	285	208	H
	* ** 2.48651	36.58	ADR	32.4	-34.2	34.78	54	-19.22	-	-	-	-	285	208	H
2	* ** 2.8883	45.51	PK-U	32.6	-33.8	44.31	-	-	74	-29.69	-	-	297	110	H
	* ** 2.8883	33.77	ADR	32.6	-33.8	32.57	54	-21.43	-	-	-	-	297	110	H
5	* ** 2.49777	50.65	PK-U	32.5	-34.2	48.95	-	-	74	-25.05	-	-	31	237	V
	* ** 2.49776	38.61	ADR	32.5	-34.2	36.91	54	-17.09	-	-	-	-	31	237	V
6	* ** 2.87143	49.18	PK-U	32.5	-33.9	47.78	-	-	74	-26.22	-	-	33	203	V
	* ** 2.87142	36.76	ADR	32.5	-33.9	35.36	54	-18.64	-	-	-	-	33	203	V
4	* ** 17.74686	33.89	PK-U	41.1	-20.5	54.49	-	-	74	-19.51	-	-	282	256	H
	* ** 17.74683	21.96	ADR	41.1	-20.5	42.56	54	-11.44	-	-	-	-	282	256	H
8	* ** 17.72141	33.79	PK-U	41.1	-20.5	54.39	-	-	74	-19.61	-	-	113	251	V
	* ** 17.72141	21.99	ADR	41.1	-20.5	42.59	54	-11.41	-	-	-	-	113	251	V
7	6.93757	40.8	PK-U	35.6	-29.4	47	-	-	-	-	68.2	-21.2	266	215	V
3	6.93891	38.88	PK-U	35.6	-29.4	45.08	-	-	-	-	68.2	-23.12	85	299	H

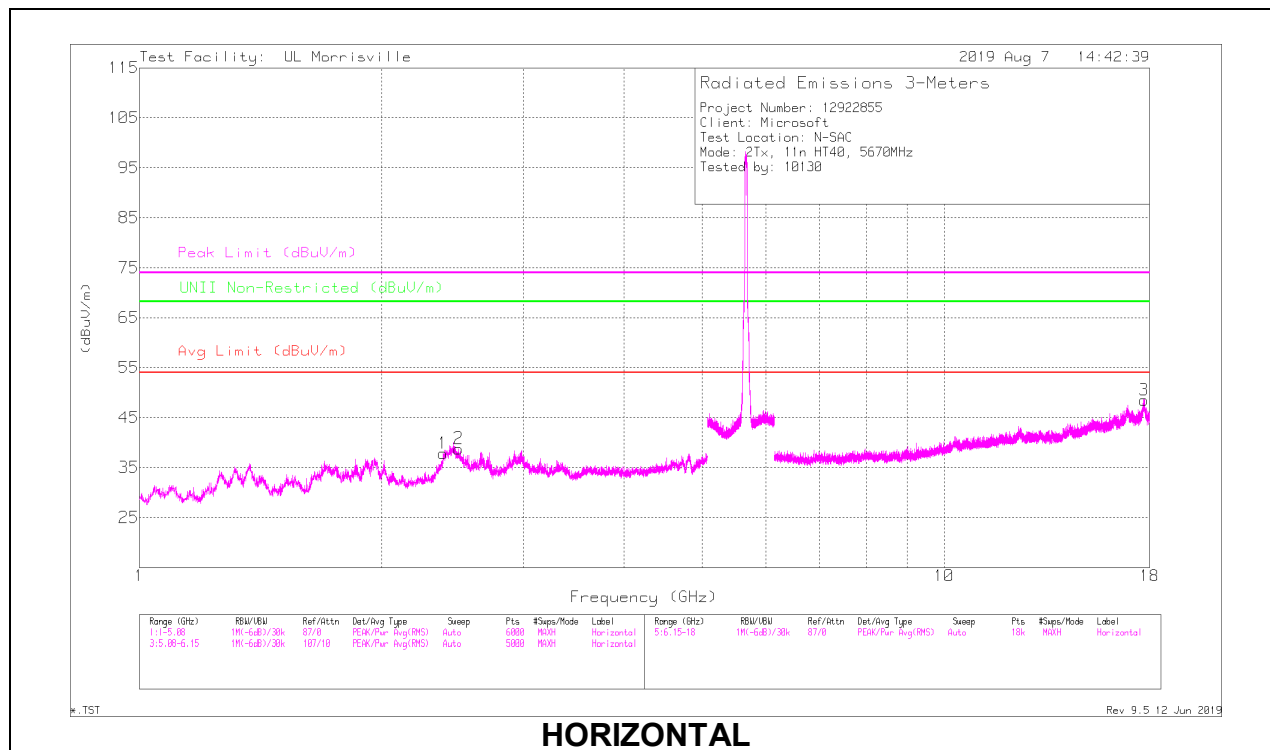
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

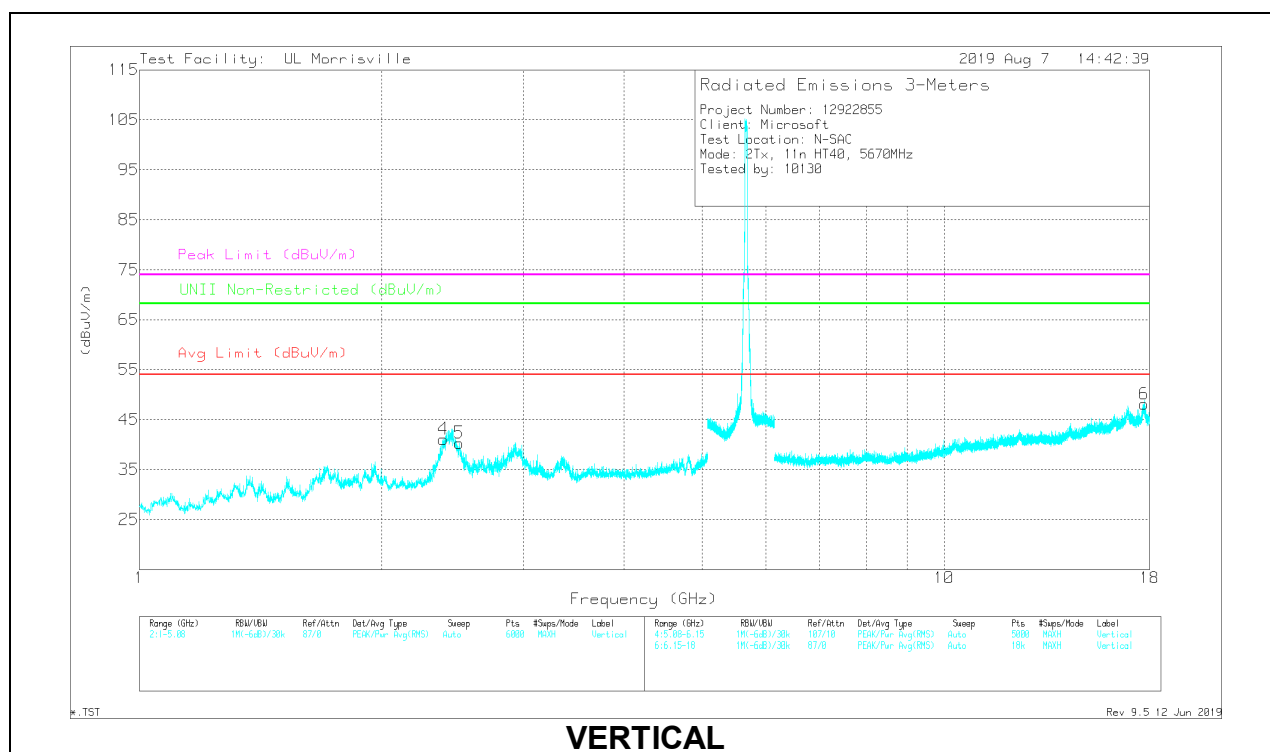
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.38364	47.91	PK-U	32	-34	0	45.91	-	-	74	-28.09	-	-	78	103	H
	* ** 2.38645	36.32	ADR	32	-34.1	0	34.22	54	-19.78	-	-	-	-	78	103	H
2	* ** 2.49377	48.85	PK-U	32.5	-34.2	0	47.15	-	-	74	-26.85	-	-	312	140	H
	* ** 2.49414	36.74	ADR	32.5	-34.2	0	35.04	54	-18.96	-	-	-	-	312	140	H
4	* ** 2.38685	51.5	PK-U	32	-34.1	0	49.4	-	-	74	-24.6	-	-	31	212	V
	* ** 2.3863	39.87	ADR	32	-34.1	0	37.77	54	-16.23	-	-	-	-	31	212	V
5	* ** 2.49883	50.52	PK-U	32.5	-34.2	0	48.82	-	-	74	-25.18	-	-	25	241	V
	* ** 2.4963	38.38	ADR	32.5	-34.2	0	36.68	54	-17.32	-	-	-	-	25	241	V
3	* ** 17.71767	33.56	PK-U	41.1	-20.6	0	54.06	-	-	74	-19.94	-	-	240	350	H
	* ** 17.71614	22.03	ADR	41.1	-20.7	0	42.43	54	-11.57	-	-	-	-	240	350	H
6	* ** 17.72315	33.54	PK-U	41.1	-20.4	0	54.24	-	-	74	-19.76	-	-	261	199	V
	* ** 17.71953	21.99	ADR	41.1	-20.6	0	42.49	54	-11.51	-	-	-	-	261	199	V

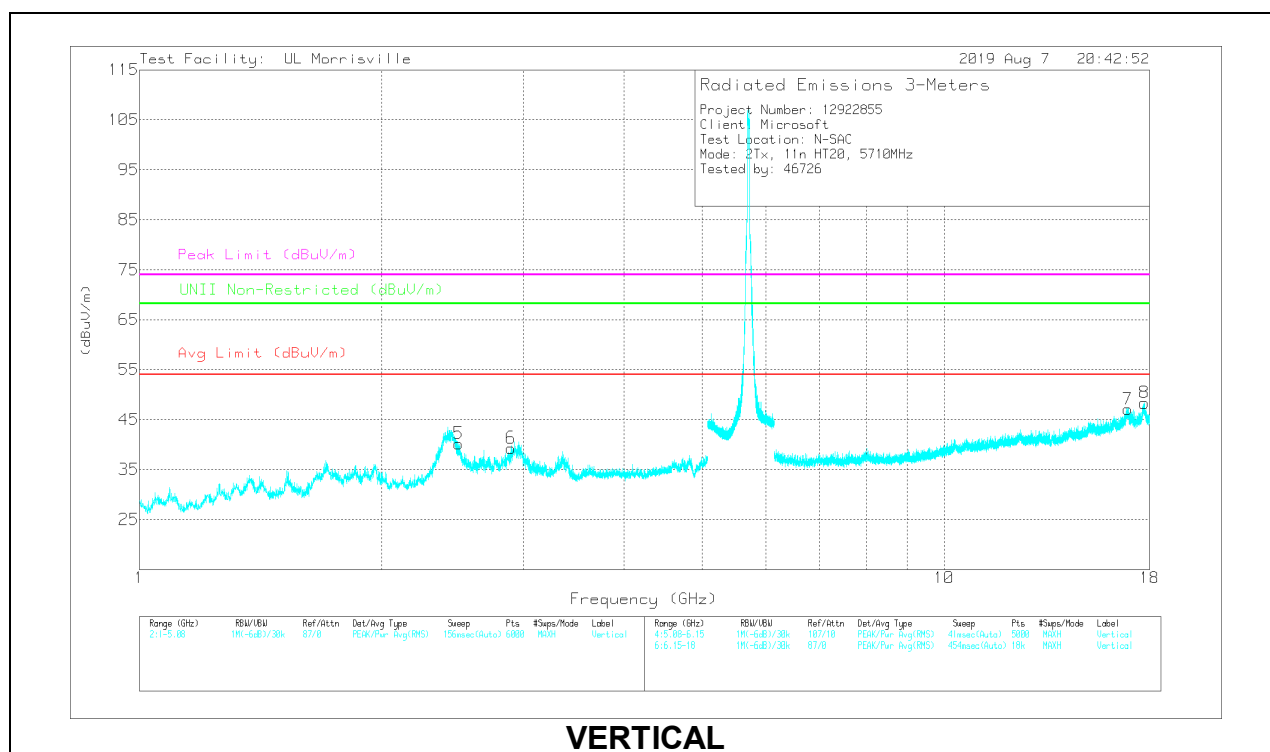
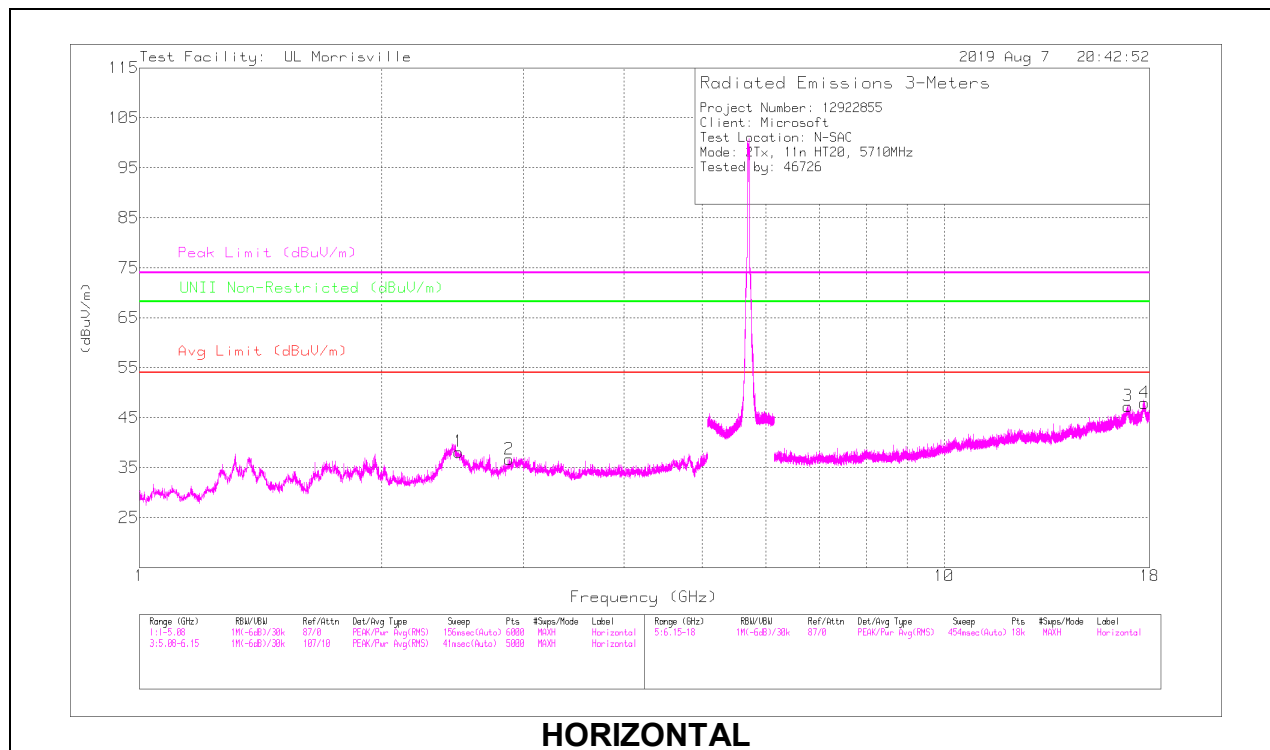
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

CHANNEL 142 RESULTS



RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.48986	48.55	PK-U	32.4	-34.2	46.75	-	-	74	-27.25	-	-	277	228	H
	* ** 2.48989	36.2	ADR	32.4	-34.2	34.4	54	-19.6	-	-	-	-	277	228	H
2	* ** 2.87109	45.84	PK-U	32.5	-33.9	44.44	-	-	74	-29.56	-	-	94	201	H
	* ** 2.87108	33.68	ADR	32.5	-33.9	32.28	54	-21.72	-	-	-	-	94	201	H
5	* ** 2.49581	51.55	PK-U	32.5	-34.2	49.85	-	-	74	-24.15	-	-	23	255	V
	* ** 2.49585	39.36	ADR	32.5	-34.2	37.66	54	-16.34	-	-	-	-	23	255	V
6	* ** 2.89744	49.12	PK-U	32.6	-33.7	48.02	-	-	74	-25.98	-	-	30	225	V
	* ** 2.89747	37.36	ADR	32.6	-33.7	36.26	54	-17.74	-	-	-	-	30	225	V
4	* ** 17.73482	34.27	PK-U	41.1	-20.3	55.07	-	-	74	-18.93	-	-	356	106	H
	* ** 17.73499	21.75	ADR	41.1	-20.3	42.55	54	-11.45	-	-	-	-	356	106	H
8	* ** 17.73472	33.68	PK-U	41.1	-20.3	54.48	-	-	74	-19.52	-	-	0	109	V
	* ** 17.73468	21.79	ADR	41.1	-20.3	42.59	54	-11.41	-	-	-	-	0	109	V
7	16.90907	35.59	PK-U	41.3	-23	53.89	-	-	-	-	68.2	-14.31	69	354	V
3	16.91601	36.15	PK-U	41.4	-23.2	54.35	-	-	-	-	68.2	-13.85	2	202	H

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

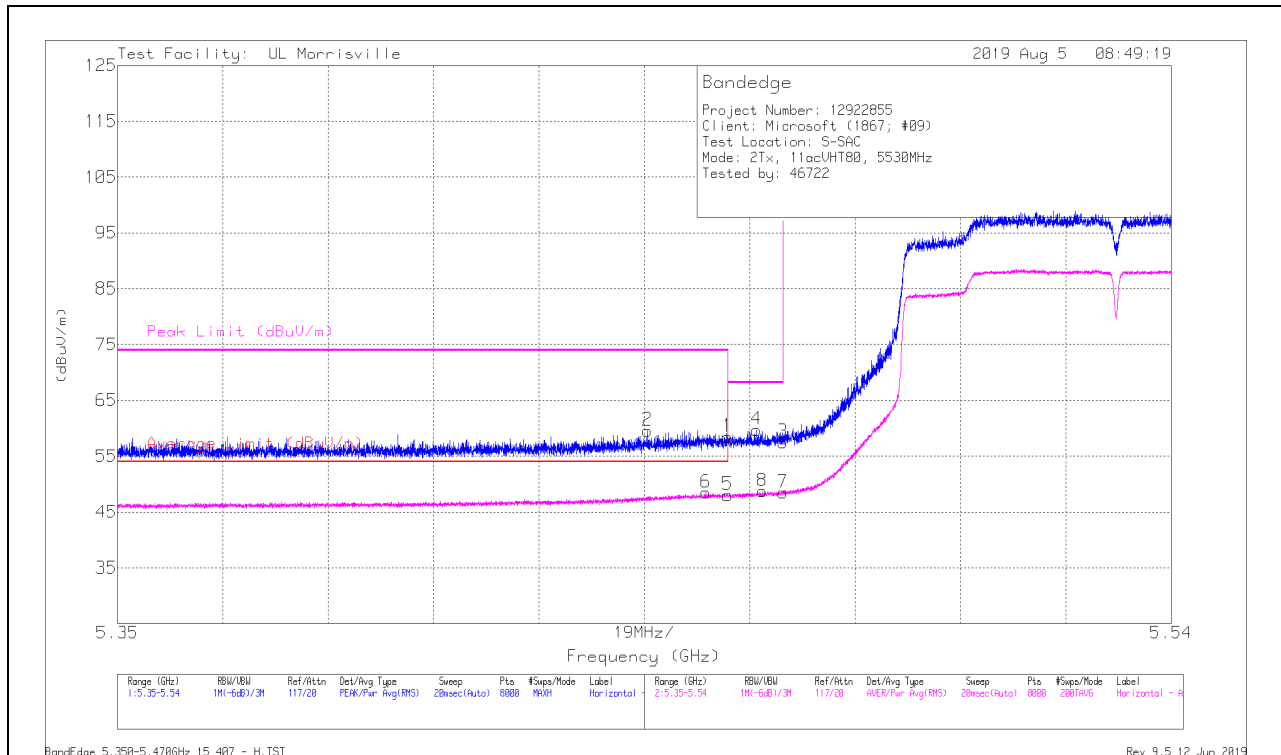
ADR - U-NII AD primary method, RMS average

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

2TX Antenna 1 + Antenna 2 SDM MODE

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.45998	47.4	Pk	34.5	-23.4	58.5	-	-	74	-15.5	329	213	H
2	* ** 5.44558	48.51	Pk	34.5	-23.4	59.61	-	-	74	-14.39	329	213	H
5	* ** 5.45998	36.96	RMS	34.5	-23.4	48.06	54	-5.94	-	-	329	213	H
6	* ** 5.45611	37.37	RMS	34.5	-23.4	48.47	54	-5.53	-	-	329	213	H
4	5.46525	48.65	Pk	34.5	-23.4	59.75	-	-	68.2	-8.45	329	213	H
8	5.46627	37.71	RMS	34.5	-23.5	48.71	-	-	-	-	329	213	H
3	5.46998	46.51	Pk	34.5	-23.5	57.51	-	-	68.2	-10.69	329	213	H
7	5.46998	37.51	RMS	34.5	-23.5	48.51	-	-	-	-	329	213	H

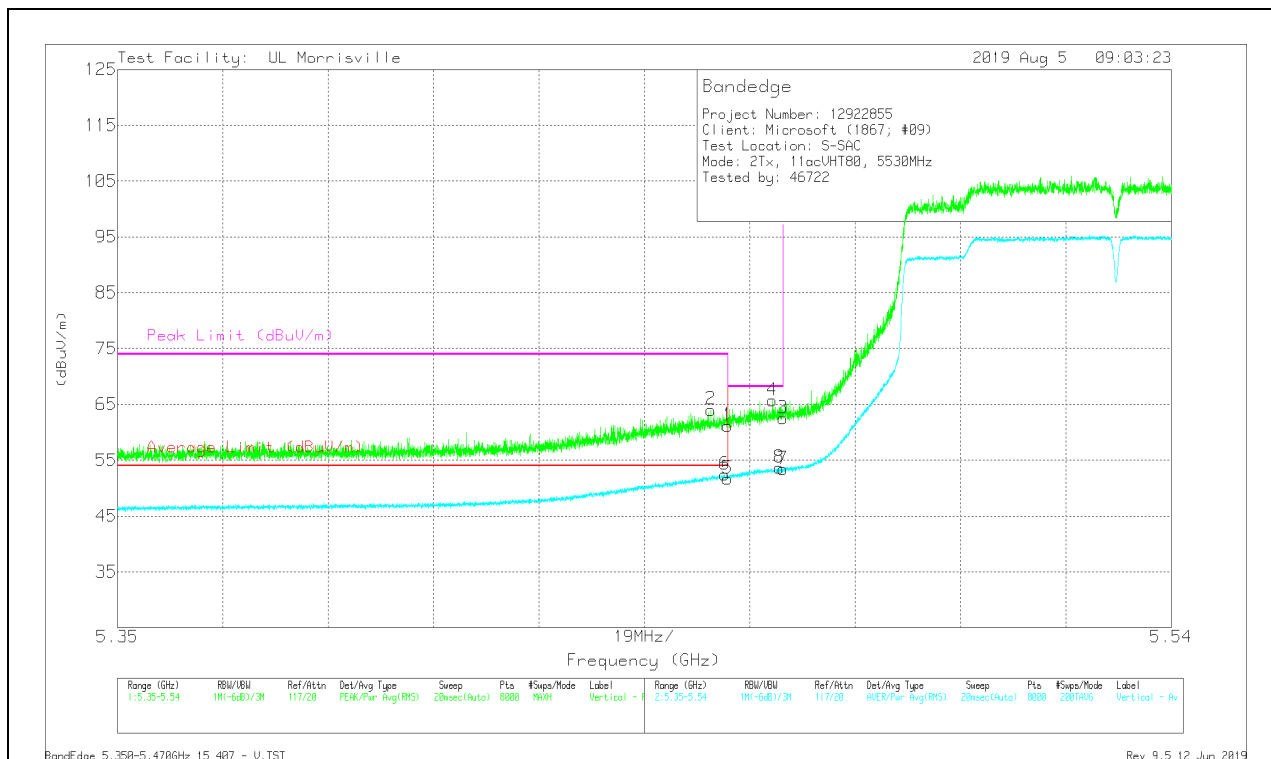
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.45998	50.09	Pk	34.5	-23.4	61.19	-	-	74	-12.81	6	214	V
2	*** 5.45696	52.95	Pk	34.5	-23.4	64.05	-	-	74	-9.95	6	214	V
5	*** 5.45998	40.57	RMS	34.5	-23.4	51.67	54	-2.33	-	-	6	214	V
6	*** 5.4595	41.34	RMS	34.5	-23.4	52.44	54	-1.56	-	-	6	214	V
4	5.4681	54.73	Pk	34.5	-23.5	65.73	-	-	68.2	-2.47	6	214	V
8	5.46926	42.69	RMS	34.5	-23.5	53.69	-	-	-	-	6	214	V
3	5.46998	51.52	Pk	34.5	-23.5	62.52	-	-	68.2	-5.68	6	214	V
7	5.46998	42.38	RMS	34.5	-23.5	53.38	-	-	-	-	6	214	V

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

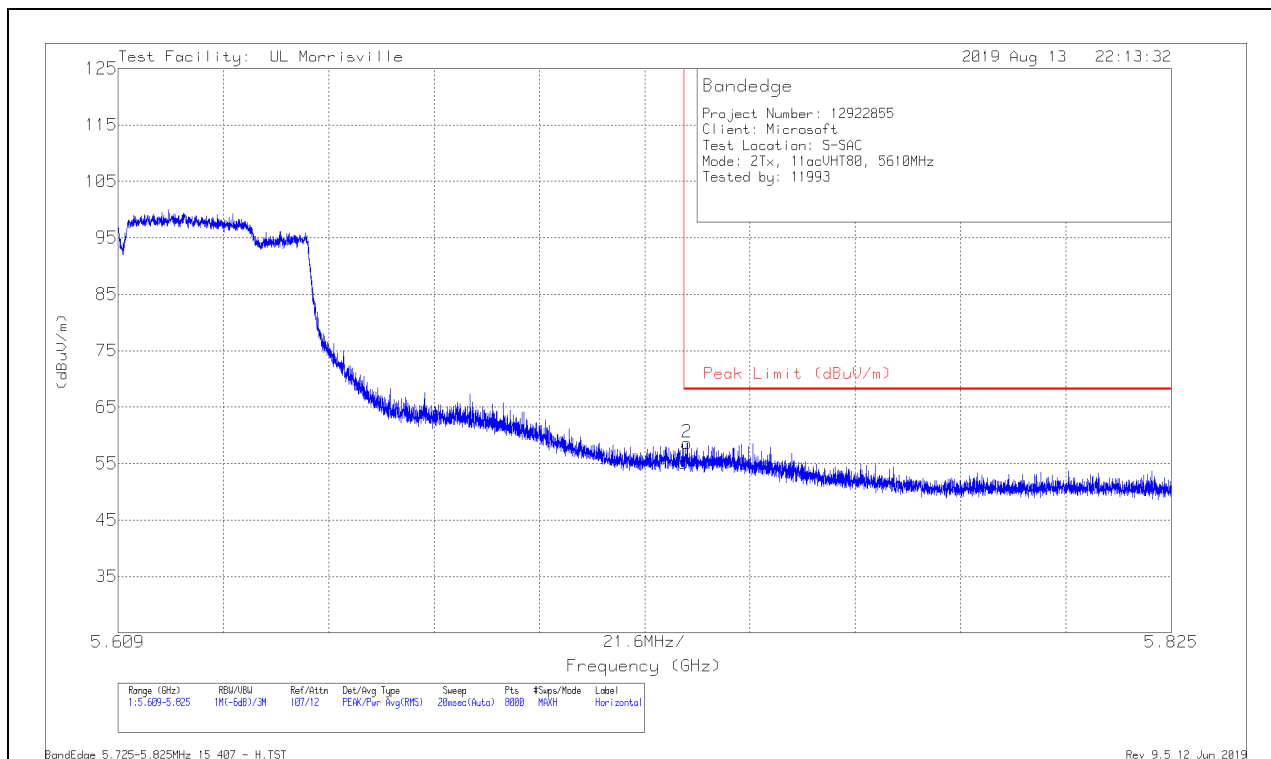
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

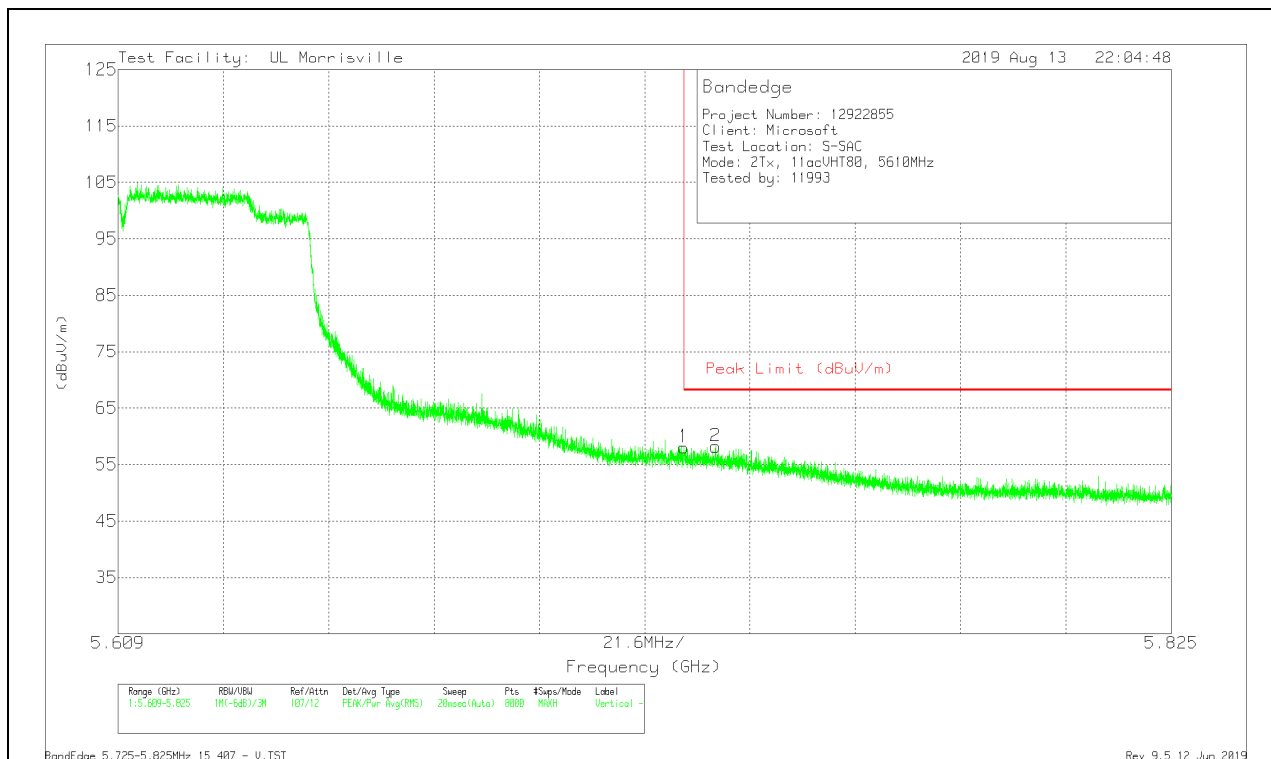
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72501	43.8	Pk	34.7	-23.3	55.2	68.2	-13	300	371	H
2	5.72573	47.28	Pk	34.7	-23.3	58.68	68.2	-9.52	300	371	H

Pk - Peak detector

VERTICAL RESULT

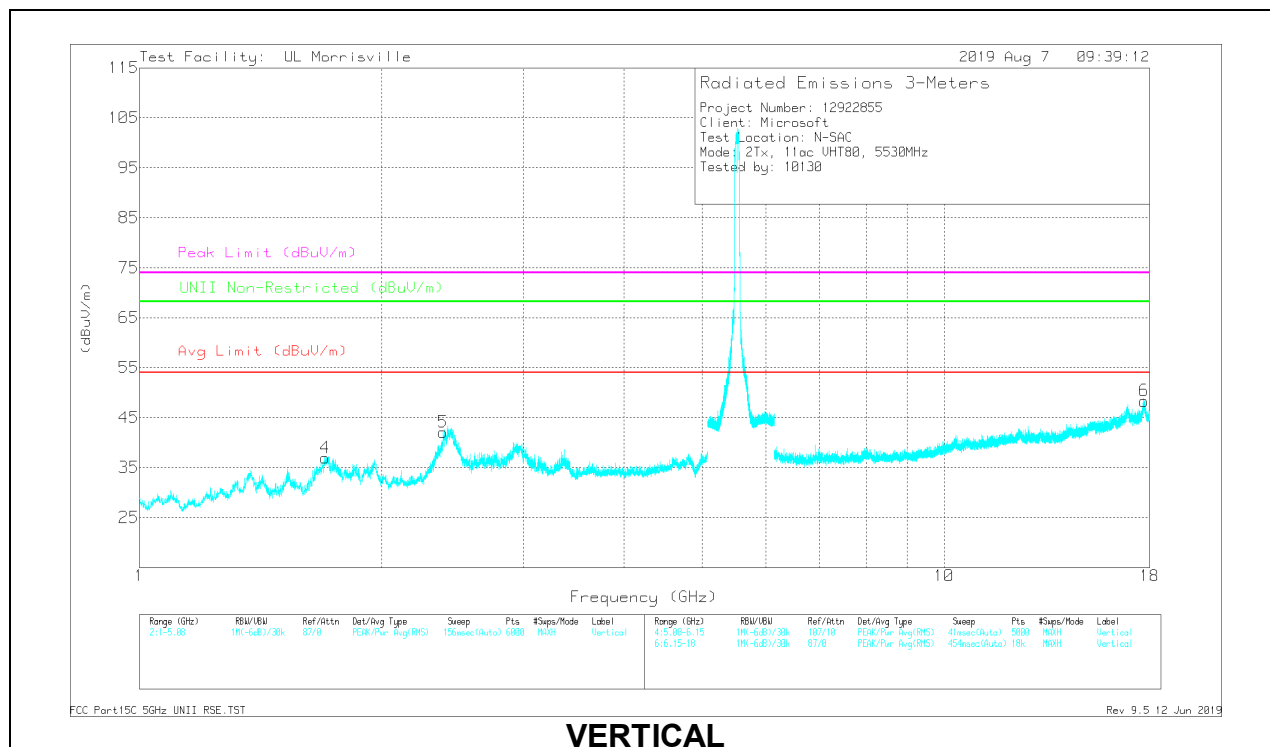
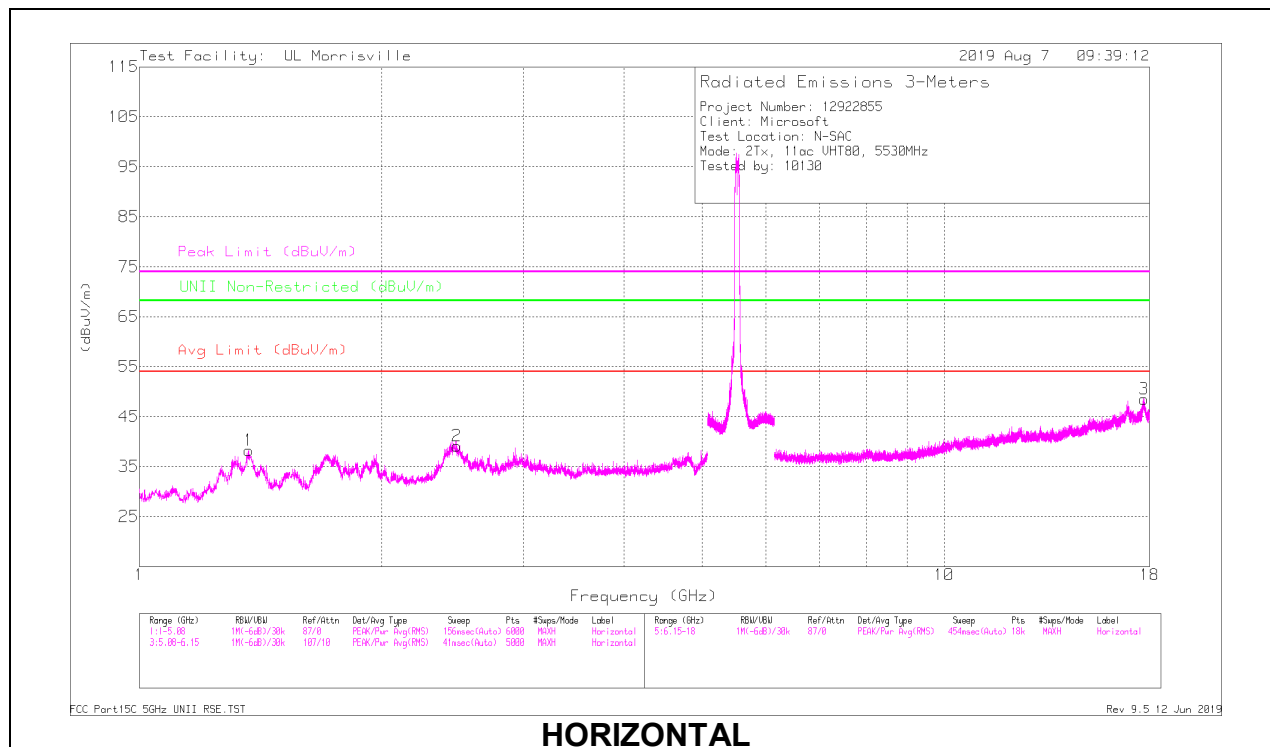


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72501	46.67	Pk	34.7	-23.3	58.07	68.2	-10.13	328	333	V
2	5.73154	46.83	Pk	34.7	-23.3	58.23	68.2	-9.97	328	333	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.36459	53.45	PK-U	29.5	-36	0	46.95	-	-	74	-27.05	-	-	266	132	H
	*** 1.36934	42.02	ADR	29.4	-36	0	35.42	54	-18.58	-	-	-	-	266	132	H
2	*** 2.49756	49.26	PK-U	32.5	-34.2	0	47.56	-	-	74	-26.44	-	-	278	174	H
	*** 2.49817	36.16	ADR	32.5	-34.2	0	34.46	54	-19.54	-	-	-	-	278	174	H
3	*** 17.71755	33.34	PK-U	41.1	-20.6	0	53.84	-	-	74	-20.16	-	-	141	102	H
	*** 17.7184	22	ADR	41.1	-20.6	0	42.5	54	-11.5	-	-	-	-	141	102	H
4	*** 1.70233	44.07	PK-U	29.1	-35.3	0	37.87	-	-	74	-36.13	-	-	278	198	V
	*** 1.70077	32.6	ADR	29	-35.3	0	26.3	54	-27.7	-	-	-	-	278	198	V
5	*** 2.38817	52.83	PK-U	32	-34.1	0	50.73	-	-	74	-23.27	-	-	26	211	V
	*** 2.38877	40.89	ADR	32	-34.1	0	38.79	54	-15.21	-	-	-	-	26	211	V
6	*** 17.7245	34.2	PK-U	41.1	-20.4	0	54.9	-	-	74	-19.1	-	-	101	311	V
	*** 17.72477	22.03	ADR	41.1	-20.4	0	42.73	54	-11.27	-	-	-	-	101	311	V

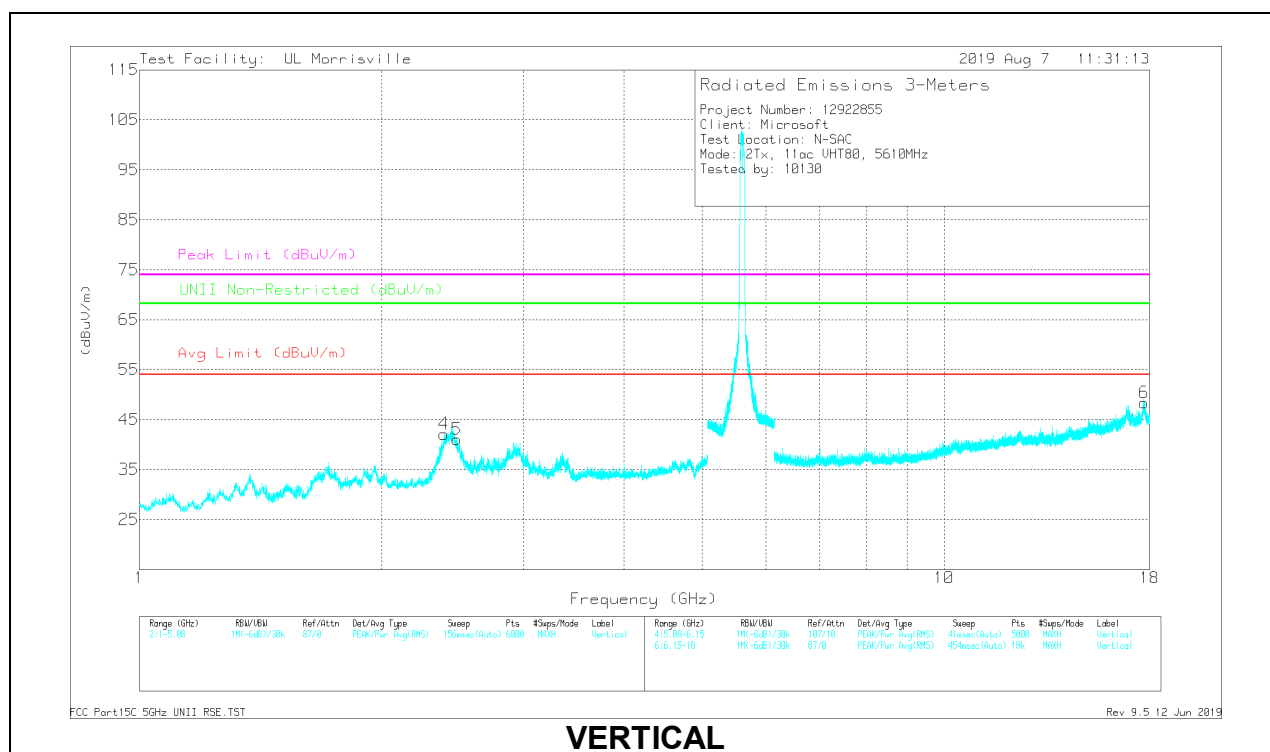
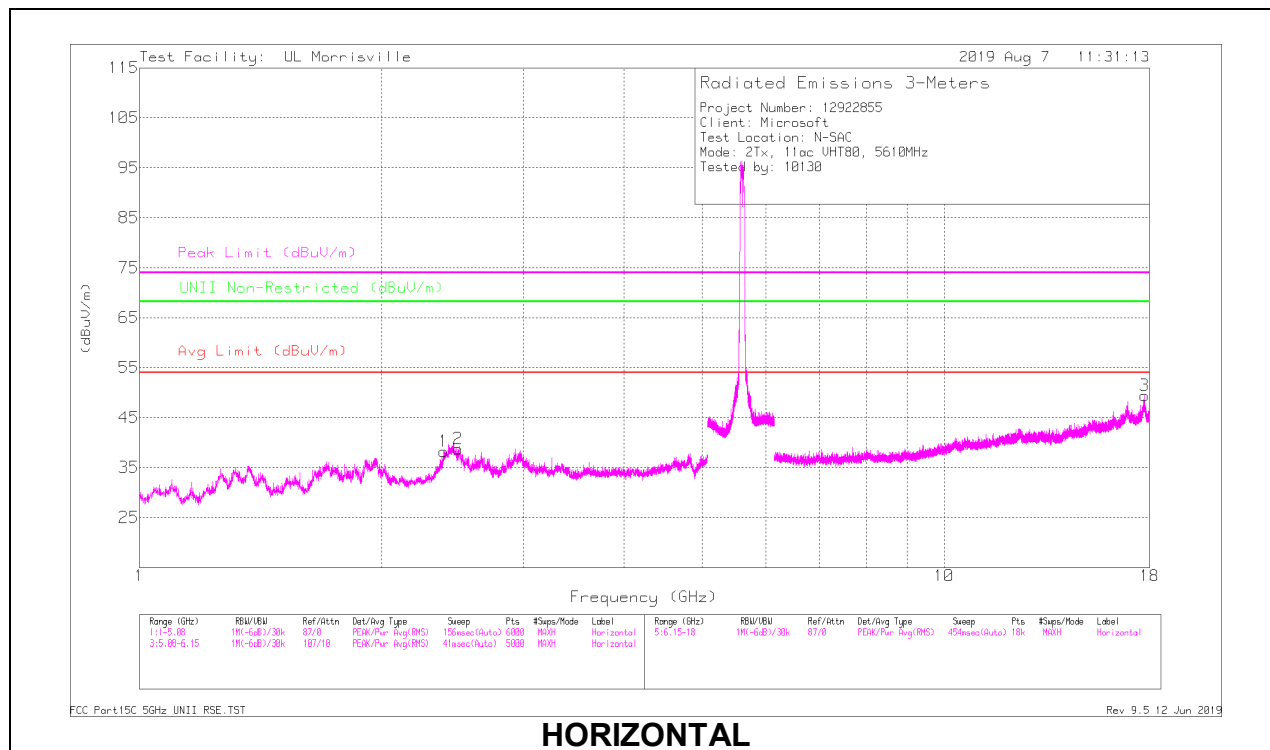
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38812	47.38	PK-U	32	-34.1	0	45.28	-	-	74	-28.72	-	-	240	220	H
	*** 2.38956	34.88	ADR	32	-34.1	0	32.78	54	-21.22	-	-	-	-	240	220	H
2	*** 2.48968	49.27	PK-U	32.4	-34.2	0	47.47	-	-	74	-26.53	-	-	310	123	H
	*** 2.4878	36.63	ADR	32.4	-34.2	0	34.83	54	-19.17	-	-	-	-	310	123	H
4	*** 2.38976	51.31	PK-U	32	-34.1	0	49.21	-	-	74	-24.79	-	-	20	224	V
	*** 2.3899	39.11	ADR	32	-34.1	0	37.01	54	-16.99	-	-	-	-	20	224	V
5	*** 2.4948	51.63	PK-U	32.5	-34.2	0	49.93	-	-	74	-24.07	-	-	27	234	V
	*** 2.48746	39.08	ADR	32.4	-34.2	0	37.28	54	-16.72	-	-	-	-	27	234	V
3	*** 17.7418	33.65	PK-U	41.1	-20.4	0	54.35	-	-	74	-19.65	-	-	114	367	H
	*** 17.74094	22.02	ADR	41.1	-20.4	0	42.72	54	-11.28	-	-	-	-	114	367	H
6	*** 17.71884	33.25	PK-U	41.1	-20.6	0	53.75	-	-	74	-20.25	-	-	48	284	V
	*** 17.7178	22.01	ADR	41.1	-20.6	0	42.51	54	-11.49	-	-	-	-	48	284	V

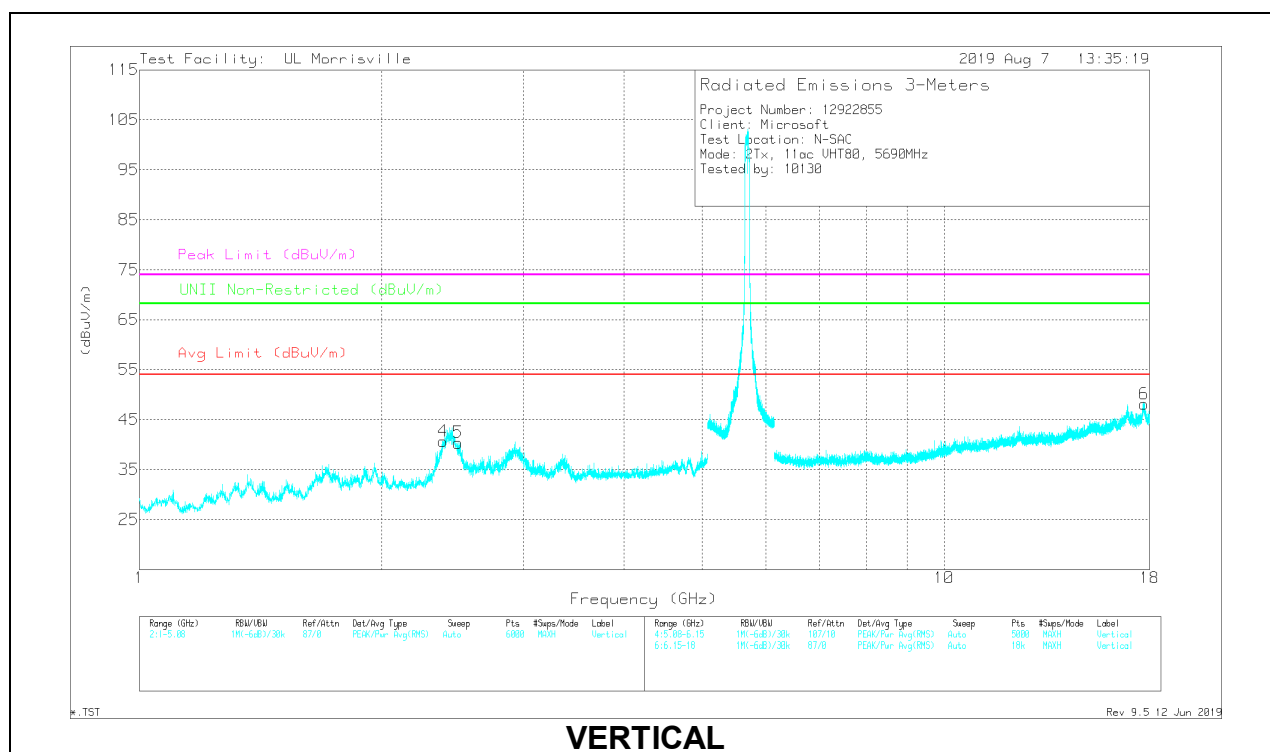
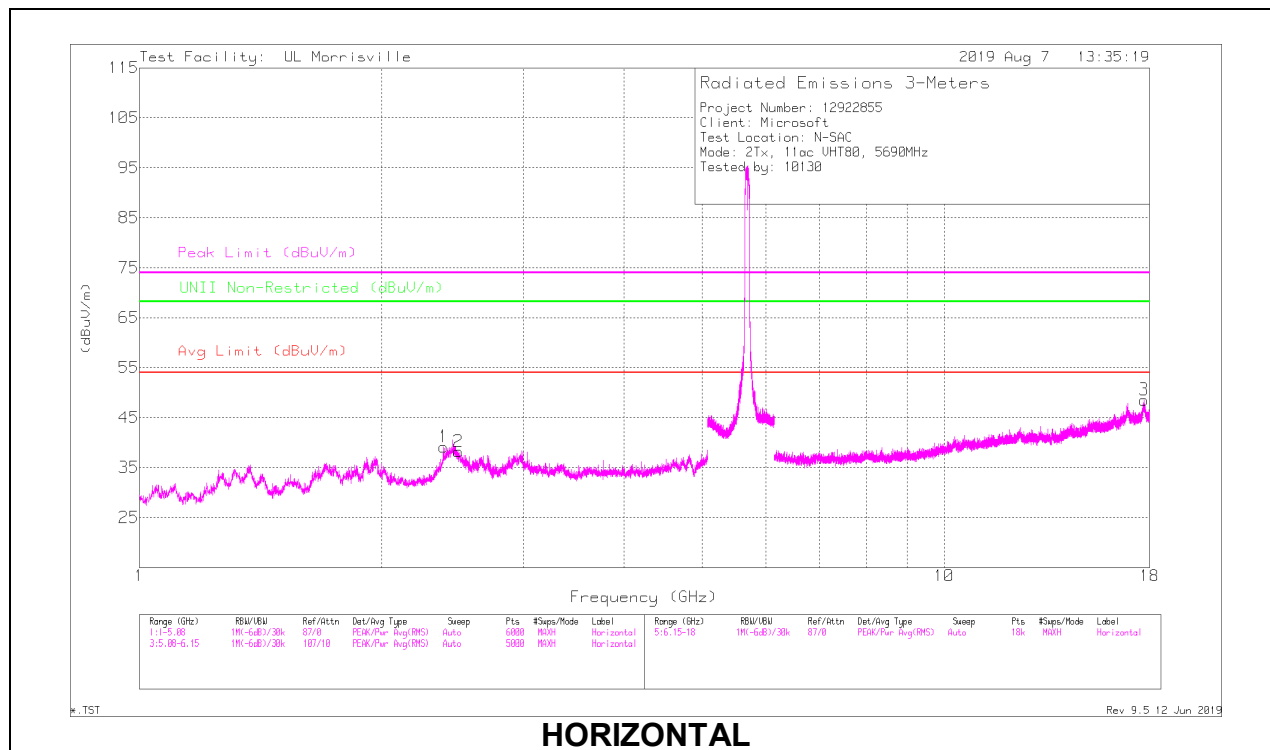
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

CHANNEL 138 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38877	48.13	PK-U	32	-34.1	0	46.03	-	-	74	-27.97	-	-	76	115	H
	*** 2.38926	36.03	ADR	32	-34.1	0	33.93	54	-20.07	-	-	-	-	76	115	H
2	*** 2.48936	48.99	PK-U	32.4	-34.2	0	47.19	-	-	74	-26.81	-	-	312	150	H
	*** 2.48895	37	ADR	32.4	-34.2	0	35.2	54	-18.8	-	-	-	-	312	150	H
4	*** 2.38318	50.73	PK-U	32	-34	0	48.73	-	-	74	-25.27	-	-	19	220	V
	*** 2.38396	38.75	ADR	32	-34	0	36.75	54	-17.25	-	-	-	-	19	220	V
5	*** 2.49078	50.37	PK-U	32.4	-34.2	0	48.57	-	-	74	-25.43	-	-	26	202	V
	*** 2.48786	38.47	ADR	32.4	-34.2	0	36.67	54	-17.33	-	-	-	-	26	202	V
3	*** 17.73211	33.07	PK-U	41.1	-20.3	0	53.87	-	-	74	-20.13	-	-	278	365	H
	*** 17.72876	22.13	ADR	41.1	-20.3	0	42.93	54	-11.07	-	-	-	-	278	365	H
6	*** 17.72938	33.61	PK-U	41.1	-20.3	0	54.41	-	-	74	-19.59	-	-	174	214	V
	*** 17.72833	22.29	ADR	41.1	-20.3	0	43.09	54	-10.91	-	-	-	-	174	214	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

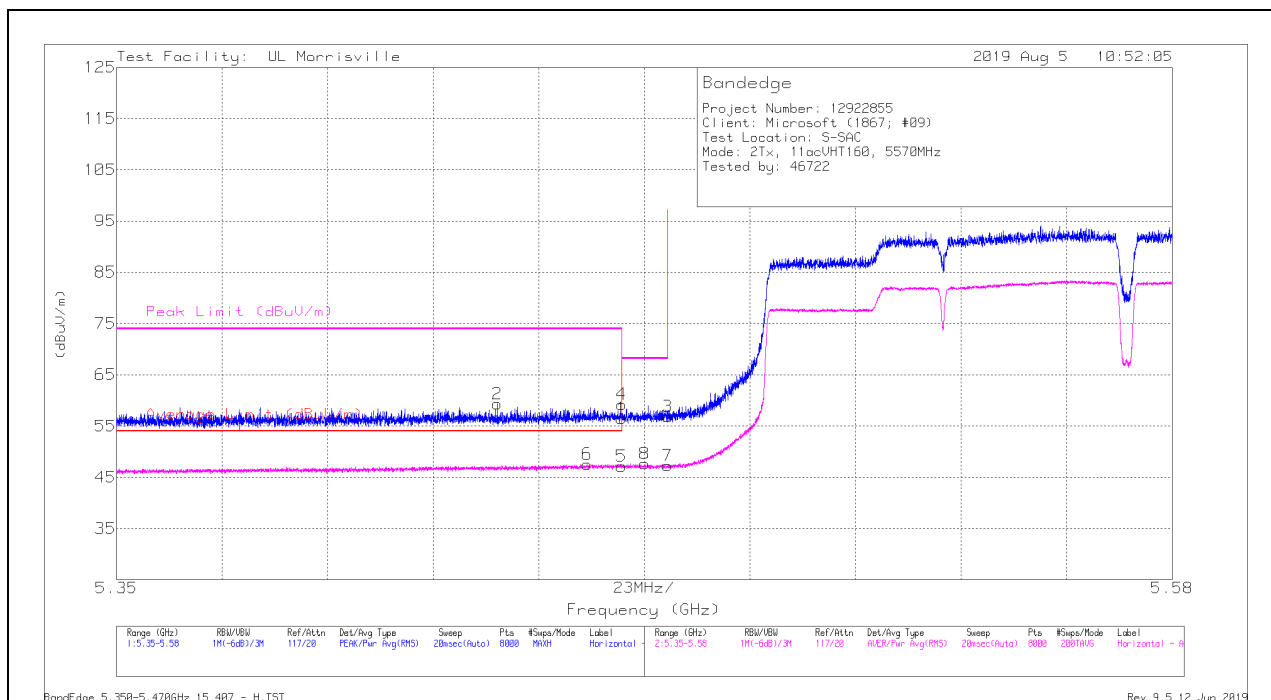
ADR - U-NII AD primary method, RMS average

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

2TX Antenna 1 + Antenna 2 SDM MODE

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



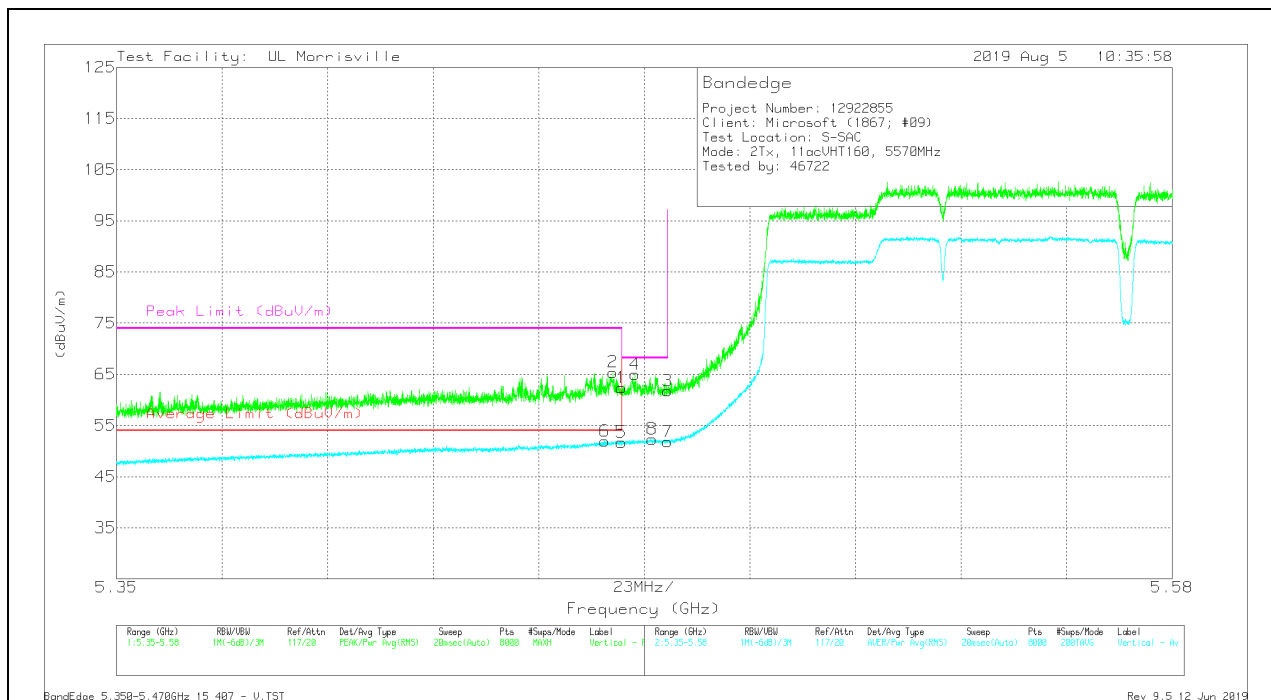
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.45998	45.35	Pk	34.5	-23.4	56.45	-	-	74	-17.55	334	185	H
2	* ** 5.43296	48.2	Pk	34.5	-23.4	59.3	-	-	74	-14.7	334	185	H
5	* ** 5.45998	36.07	RMS	34.5	-23.4	47.17	54	-6.83	-	-	334	185	H
6	* ** 5.45251	36.36	RMS	34.5	-23.3	47.56	54	-6.44	-	-	334	185	H
4	5.46004	48.14	Pk	34.5	-23.4	59.24	-	-	68.2	-8.96	334	185	H
8	5.46505	36.53	RMS	34.5	-23.4	47.63	-	-	-	-	334	185	H
3	5.46999	45.83	Pk	34.5	-23.5	56.83	-	-	68.2	-11.37	334	185	H
7	5.46999	36.3	RMS	34.5	-23.5	47.3	-	-	-	-	334	185	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	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.45998	51.26	Pk	34.5	-23.4	62.36	-	-	74	-11.64	10	213	V
2	*** 5.45814	54.3	Pk	34.5	-23.4	65.4	-	-	74	-8.6	10	213	V
5	*** 5.45998	40.64	RMS	34.5	-23.4	51.74	54	-2.26	-	-	10	213	V
6	*** 5.45636	40.86	RMS	34.5	-23.4	51.96	54	-2.04	-	-	10	213	V
4	5.46297	53.89	Pk	34.5	-23.4	64.99	-	-	68.2	-3.21	10	213	V
8	5.46668	41.36	RMS	34.5	-23.5	52.36	-	-	-	-	10	213	V
3	5.46999	50.78	Pk	34.5	-23.5	61.78	-	-	68.2	-6.42	10	213	V
7	5.46999	40.78	RMS	34.5	-23.5	51.78	-	-	-	-	10	213	V

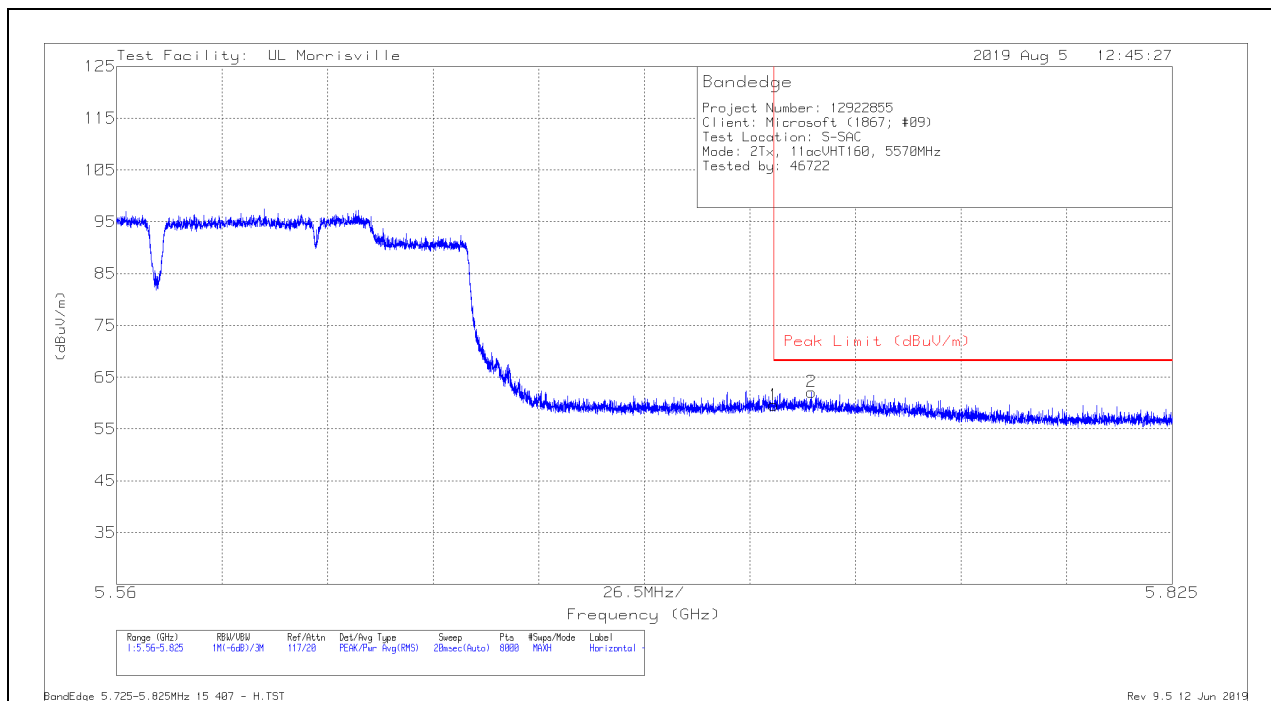
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

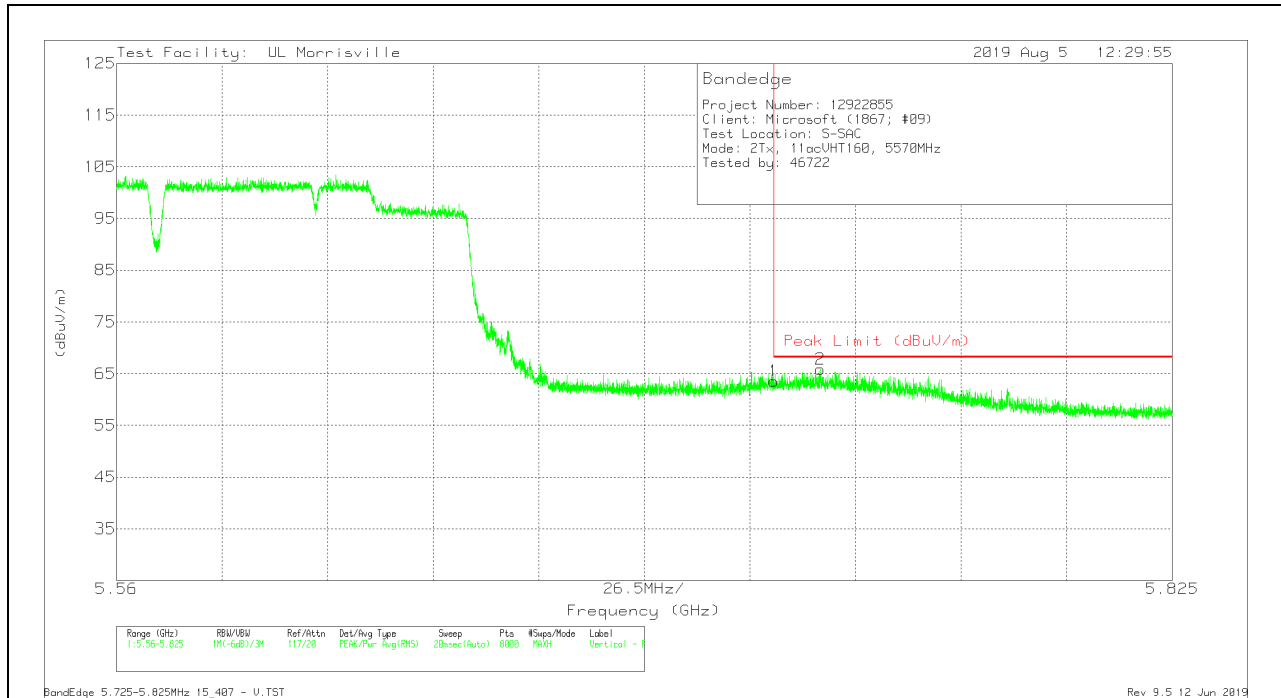
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72502	48.21	Pk	34.7	-23.3	59.61	68.2	-8.59	317	262	H
2	5.73442	50.75	Pk	34.7	-23.3	62.15	68.2	-6.05	317	262	H

Pk - Peak detector

VERTICAL RESULT

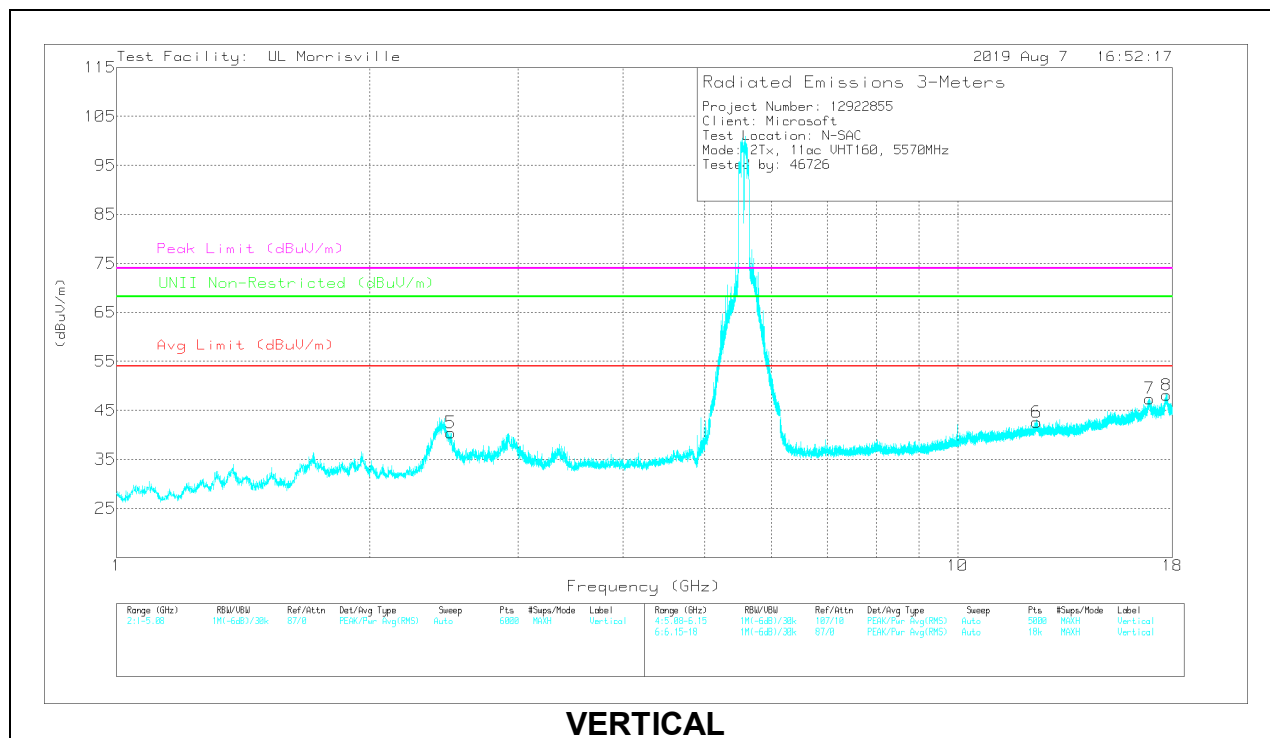
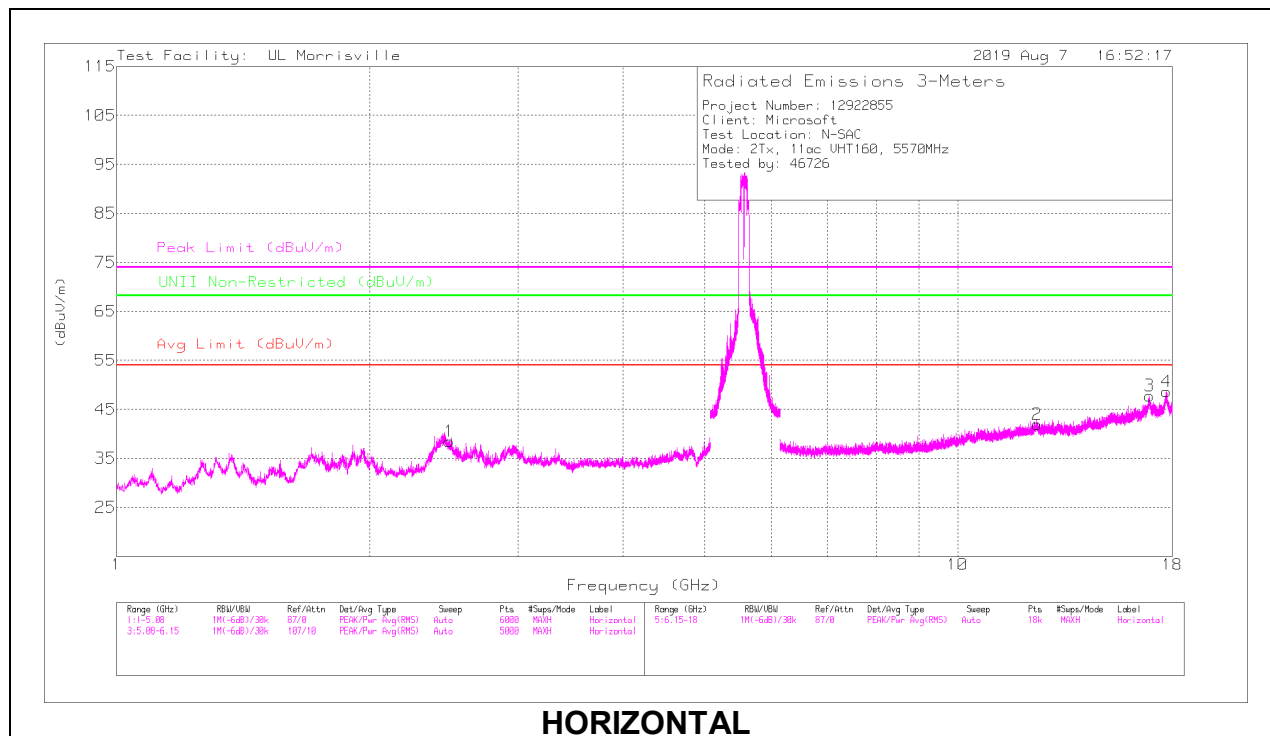


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72502	52.16	Pk	34.7	-23.3	63.56	68.2	-4.64	21	244	V
2	5.73658	54.46	Pk	34.7	-23.3	65.86	68.2	-2.34	21	244	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.48402	47.93	PK-U	32.4	-34.2	46.13	-	-	74	-27.87	-	-	309	184	H
	* ** 2.48404	35.56	ADR	32.4	-34.2	33.76	54	-20.24	-	-	-	-	309	184	H
5	* ** 2.49516	51.14	PK-U	32.5	-34.2	49.44	-	-	74	-24.56	-	-	14	266	V
	* ** 2.49514	38.52	ADR	32.5	-34.2	36.82	54	-17.18	-	-	-	-	14	266	V
2	* ** 12.43892	35.21	PK-U	38.8	-25.1	48.91	-	-	74	-25.09	-	-	348	267	H
	* ** 12.43889	23.12	ADR	38.8	-25.1	36.82	54	-17.18	-	-	-	-	348	267	H
4	* ** 17.72743	34.19	PK-U	41.1	-20.3	54.99	-	-	74	-19.01	-	-	66	291	H
	* ** 17.7273	22.08	ADR	41.1	-20.3	42.88	54	-11.12	-	-	-	-	66	291	H
6	* ** 12.42491	35.48	PK-U	38.8	-24.9	49.38	-	-	74	-24.62	-	-	294	141	V
	* ** 12.42484	23.06	ADR	38.8	-24.9	36.96	54	-17.04	-	-	-	-	294	141	V
8	* ** 17.71775	34.72	PK-U	41.1	-20.6	55.22	-	-	74	-18.78	-	-	9	210	V
	* ** 17.71773	22.14	ADR	41.1	-20.6	42.64	54	-11.36	-	-	-	-	9	210	V
7	16.90622	35.65	PK-U	41.3	-22.9	54.05	-	-	-	-	68.2	-14.15	230	100	V
3	16.91415	35.83	PK-U	41.4	-23.2	54.03	-	-	-	-	68.2	-14.17	223	375	H

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

8.3. WORST-CASE BELOW 1GHz AND ABOVE 18 GHz

Radiated emissions below 1GHz, above 18GHz, and power line conducted emissions were performed in worst-case test report R12922855-E11 (FCC ID: C3K1867, IC: 3048A-1867)

9. AC LINE CONDUCTED EMISSIONS

Radiated emissions below 1GHz, above 18GHz, and power line conducted emissions were performed in worst-case test report R12922855-E11 (FCC ID: C3K1867, IC: 3048A-1867)

10. SETUP PHOTOS

Please refer to 12922855-EP1 for setup photos

END OF TEST REPORT