



CERTIFICATION TEST REPORT

Report Number. : R12922855-E7

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

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

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 model similarity explanation to Section 5.5	Brian T. Kiewra

TABLE OF CONTENTS

REPORT REVISION HISTORY	2
TABLE OF CONTENTS	3
1. ATTESTATION OF TEST RESULTS	4
2. TEST METHODOLOGY	5
3. FACILITIES AND ACCREDITATION	5
4. CALIBRATION AND UNCERTAINTY	6
4.1. MEASURING INSTRUMENT CALIBRATION	6
4.2. SAMPLE CALCULATION	6
4.3. MEASUREMENT UNCERTAINTY	6
5. EQUIPMENT UNDER TEST	7
5.1. EUT DESCRIPTION	7
5.2. MAXIMUM OUTPUT POWER	7
5.3. DESCRIPTION OF AVAILABLE ANTENNAS	7
5.4. SOFTWARE AND FIRMWARE	7
5.5. WORST-CASE CONFIGURATION AND MODE	8
5.6. DESCRIPTION OF TEST SETUP	9
6. TEST AND MEASUREMENT EQUIPMENT	10
7. MEASUREMENT METHOD	12
8. RADIATED TEST RESULTS	13
8.1. ON TIME AND DUTY CYCLE	14
8.2. TRANSMITTER ABOVE 1 GHz	16
8.2.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.8 GHz BAND	16
8.2.2. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.8 GHz BAND	26
8.2.3. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.8 GHz BAND	36
8.2.4. TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.8 GHz BAND	44
8.3. WORST-CASE BELOW 1GHz AND ABOVE 18 GHz	49
9. AC LINE CONDUCTED EMISSIONS	50
10. SETUP PHOTOS	50
END OF TEST REPORT	50

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 2019-08-20

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.

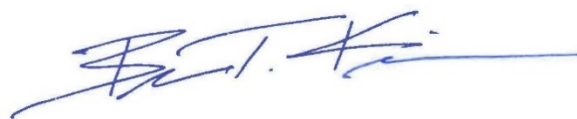
This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document. This report must not be used by the client to claim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

Approved & Released
For UL LLC By:



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-E7 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-E7. 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.

8. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209 - Restricteds bands
FCC §15.407(b)(1-4) - Non-Restricteds 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.

5.8 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	2.086	2.132	0.978	97.84%	0.09	0.479
802.11n HT20 SDM	3.979	4.026	0.988	98.83%	0.00	0.010
802.11n HT40 SDM	3.981	4.030	0.988	98.78%	0.00	0.010
802.11ac VHT80 SDM	3.965	4.012	0.988	98.83%	0.00	0.010

DUTY CYCLE PLOTS



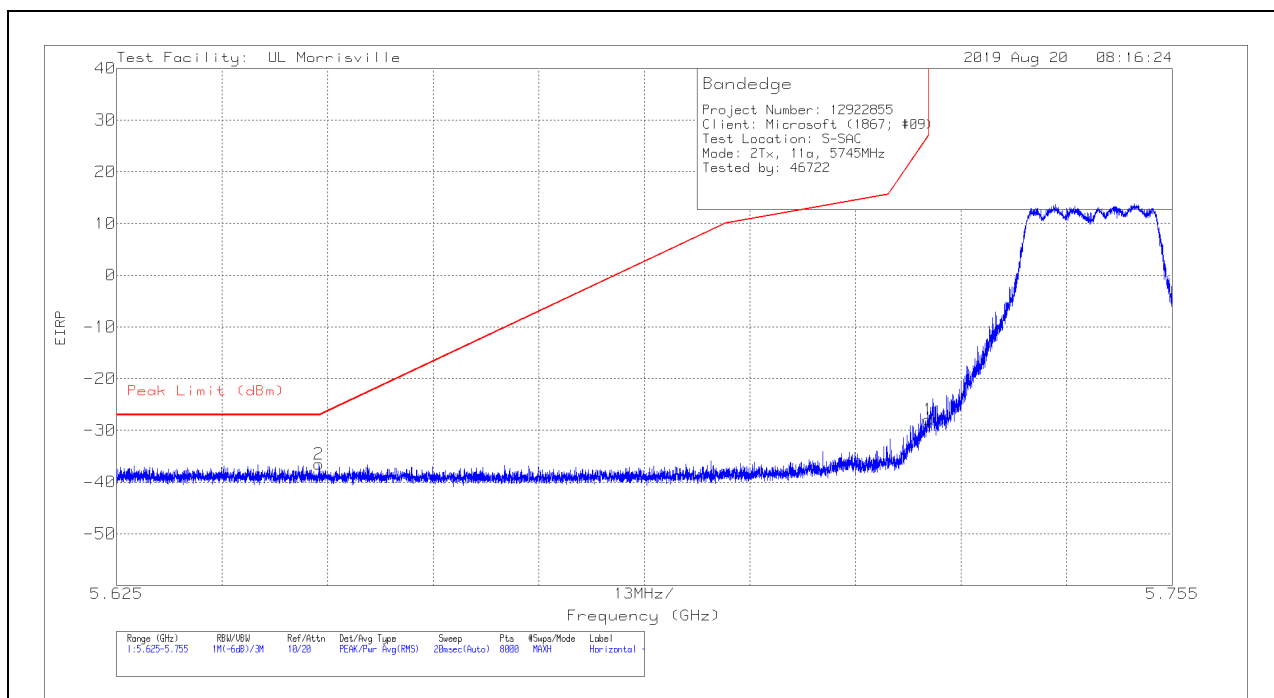
8.2. TRANSMITTER ABOVE 1 GHz

8.2.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.8 GHz BAND

2TX Antenna 1 + Antenna 2 CDD MODE

BANDEDGE (LOW CHANNEL)

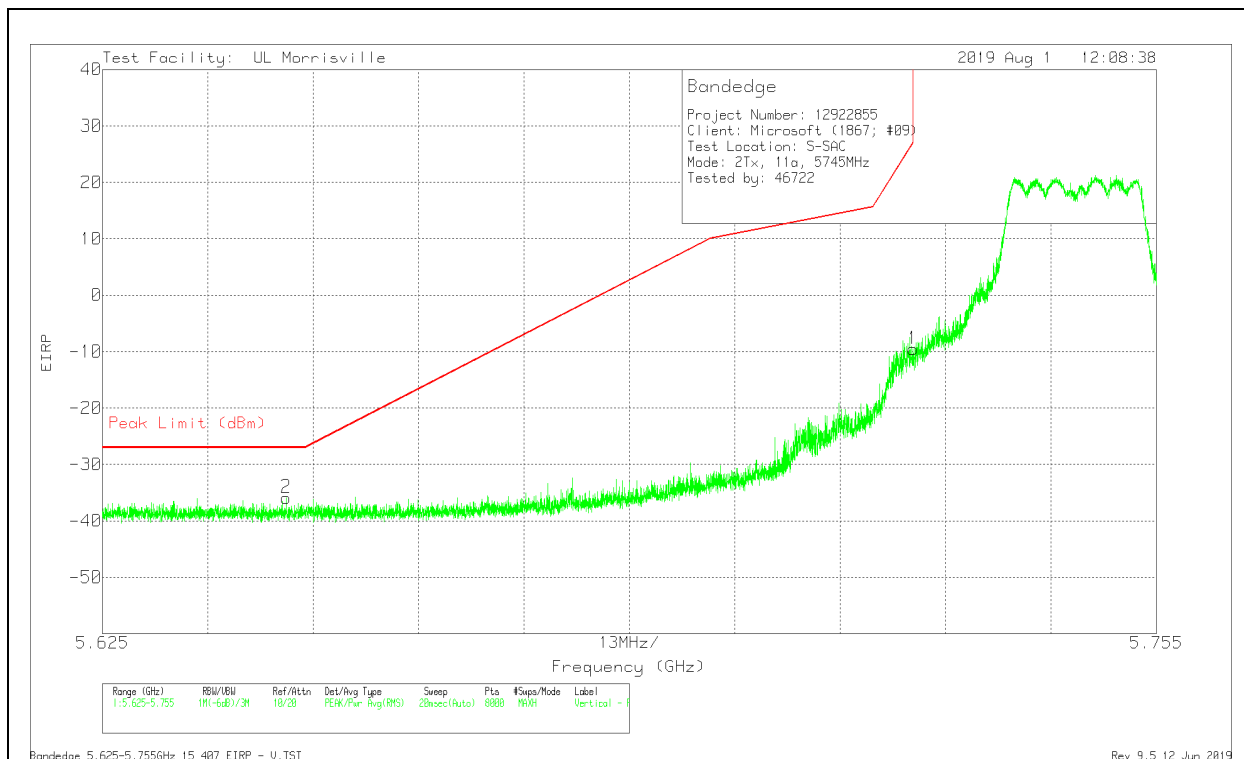
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64993	-59.86	Pk	34.7	-23.2	11.8	0	-36.56	-27	-9.56	324	377	H
1	5.725	-51.1	Pk	34.7	-23.3	11.8	0	-27.9	27	-54.9	324	377	H

Pk - Peak detector

VERTICAL RESULT

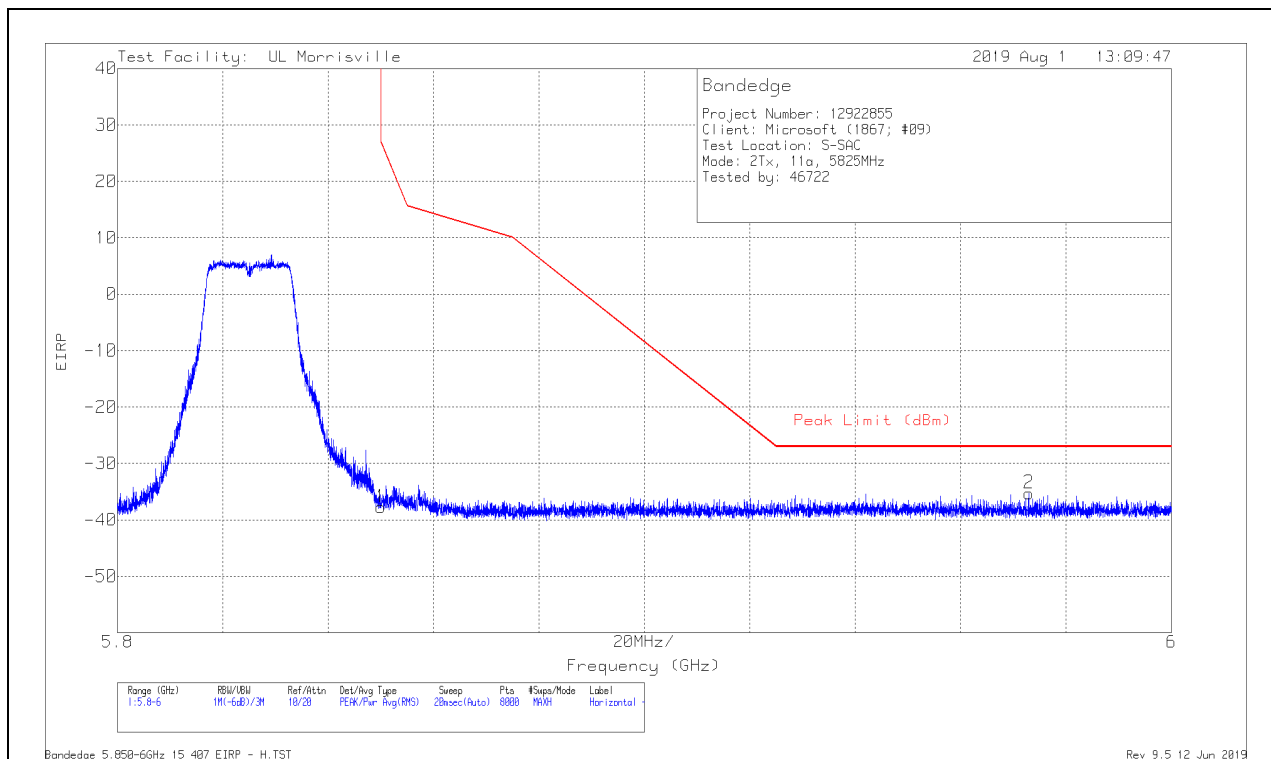


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64764	-59.18	Pk	34.7	-23.2	11.8	-35.88	-27	-8.88	354	214	V
1	5.725	-32.74	Pk	34.7	-23.3	11.8	-9.54	27	-36.54	354	214	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

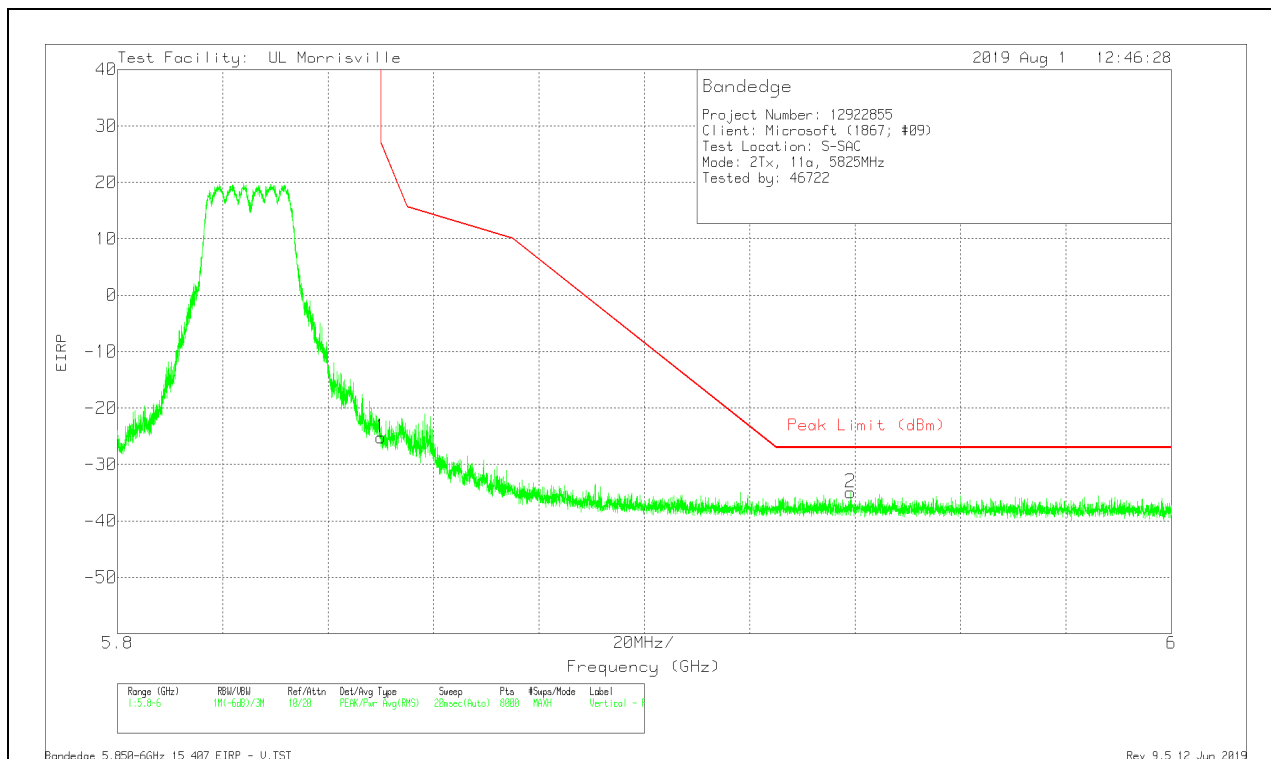
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85001	-61.22	Pk	34.8	-23.1	11.8	-37.72	26.99	-64.71	344	349	H
2	5.97297	-59.17	Pk	35	-22.9	11.8	-35.27	-27	-8.27	344	349	H

Pk - Peak detector

VERTICAL RESULT

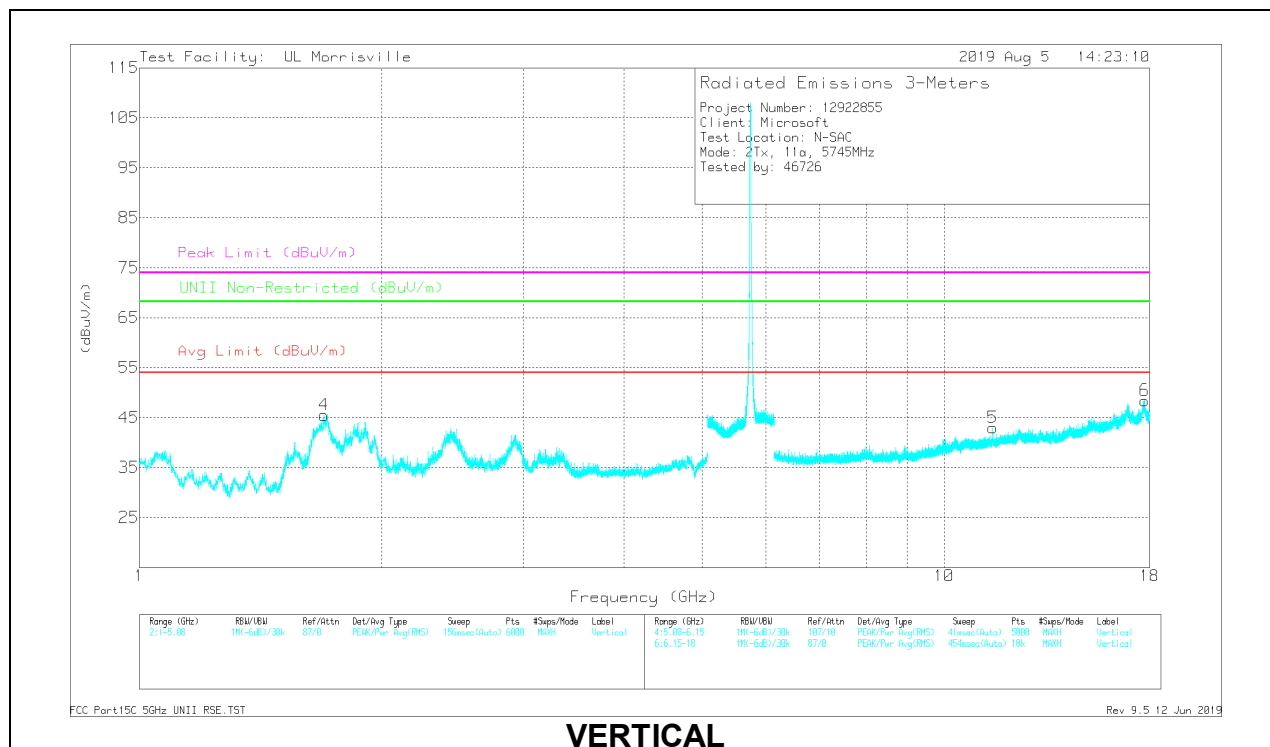
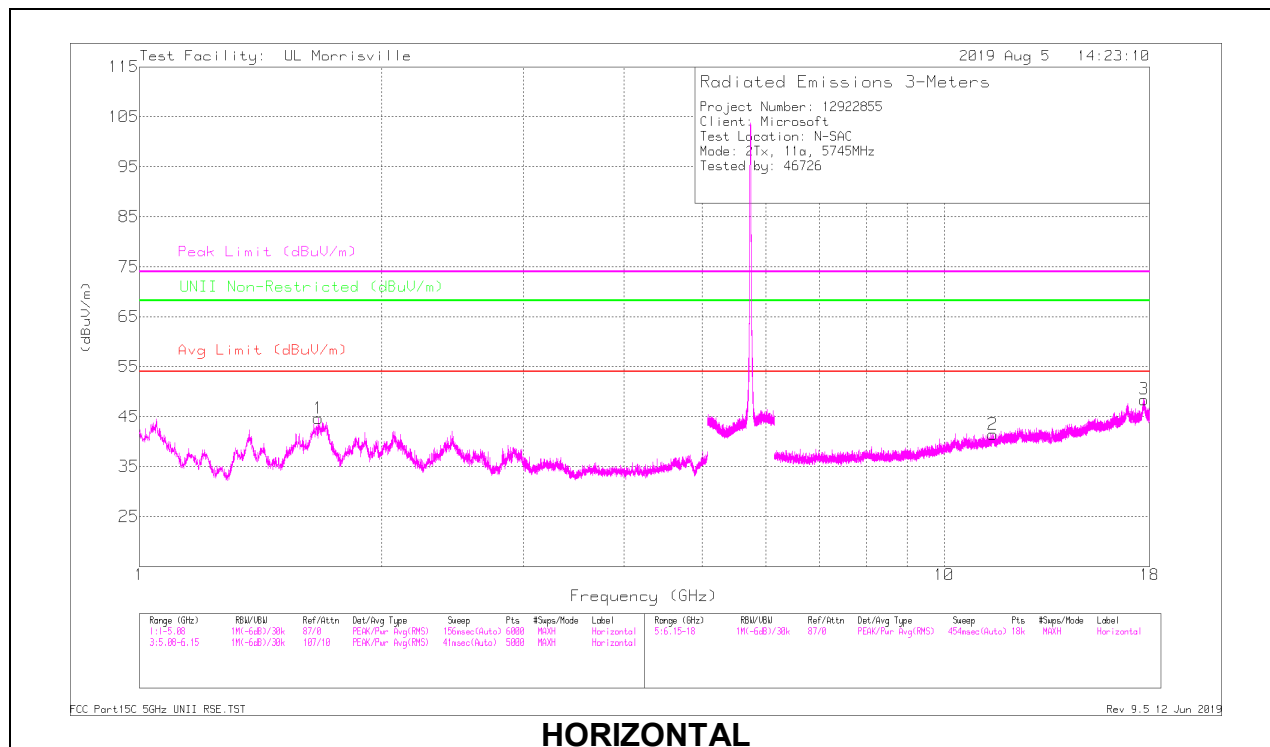


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85001	-48.67	Pk	34.8	-23.1	11.8	-25.17	26.99	-52.16	0	260	V
2	5.93909	-58.81	Pk	34.9	-22.8	11.8	-34.91	-27	-7.91	0	260	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	*** 1.66508	58.85	PK-U	28.7	-35.4	0	52.15	-	-	74	-21.85	-	-	289	218	H
	*** 1.66509	46.8	ADR	28.7	-35.4	.09	40.19	54	-13.81	-	-	-	-	289	218	H
4	*** 1.69627	60.01	PK-U	29	-35.3	0	53.71	-	-	74	-20.29	-	-	25	207	V
	*** 1.69628	48.15	ADR	29	-35.3	.09	41.94	54	-12.06	-	-	-	-	25	207	V
2	*** 11.48967	41.41	PK-U	38.1	-25.3	0	54.21	-	-	74	-19.79	-	-	260	342	H
	*** 11.48966	29.28	ADR	38.1	-25.3	.09	42.17	54	-11.83	-	-	-	-	260	342	H
3	*** 17.71446	34.43	PK-U	41.1	-20.8	0	54.73	-	-	74	-19.27	-	-	226	314	H
	*** 17.71463	22.32	ADR	41.1	-20.8	.09	42.71	54	-11.29	-	-	-	-	226	314	H
5	*** 11.48967	38.32	PK-U	38.1	-25.3	0	51.12	-	-	74	-22.88	-	-	273	336	V
	*** 11.48964	25.61	ADR	38.1	-25.3	.09	38.5	54	-15.5	-	-	-	-	273	336	V
6	*** 17.73941	34.61	PK-U	41.1	-20.4	0	55.31	-	-	74	-18.69	-	-	307	305	V
	*** 17.73941	22.17	ADR	41.1	-20.4	.09	42.96	54	-11.04	-	-	-	-	307	305	V

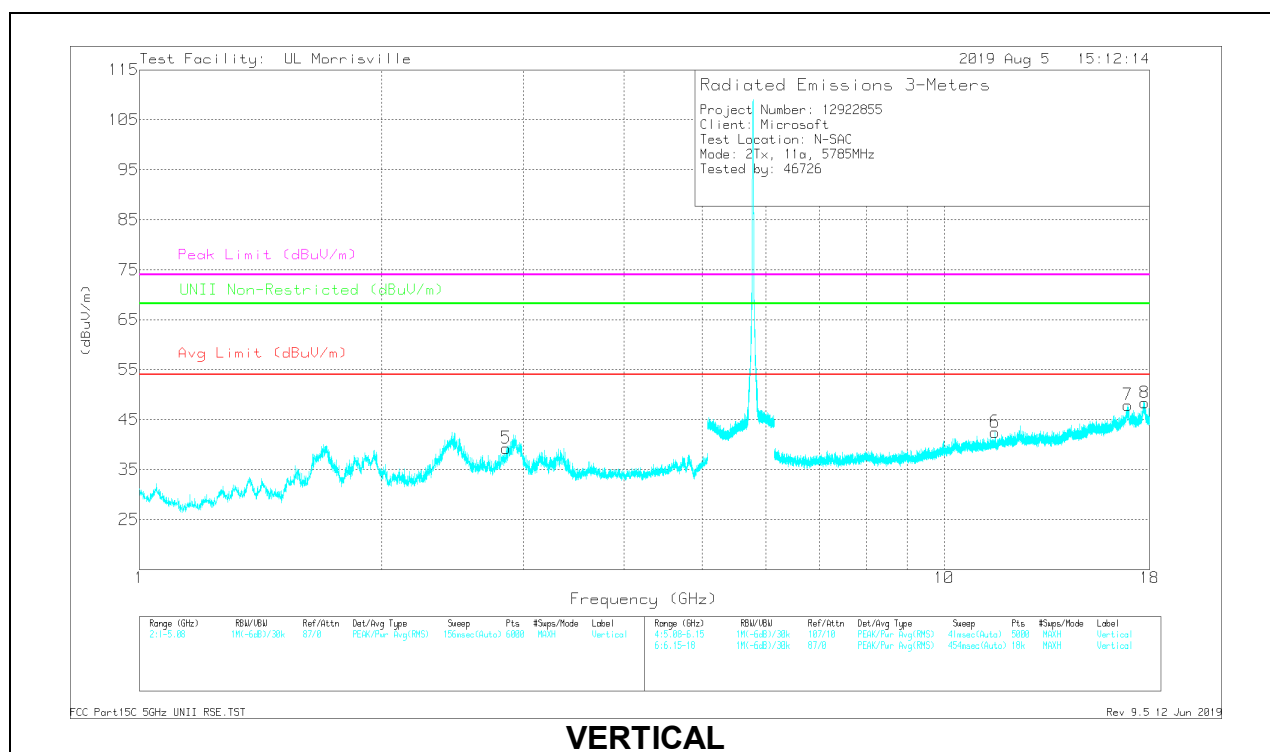
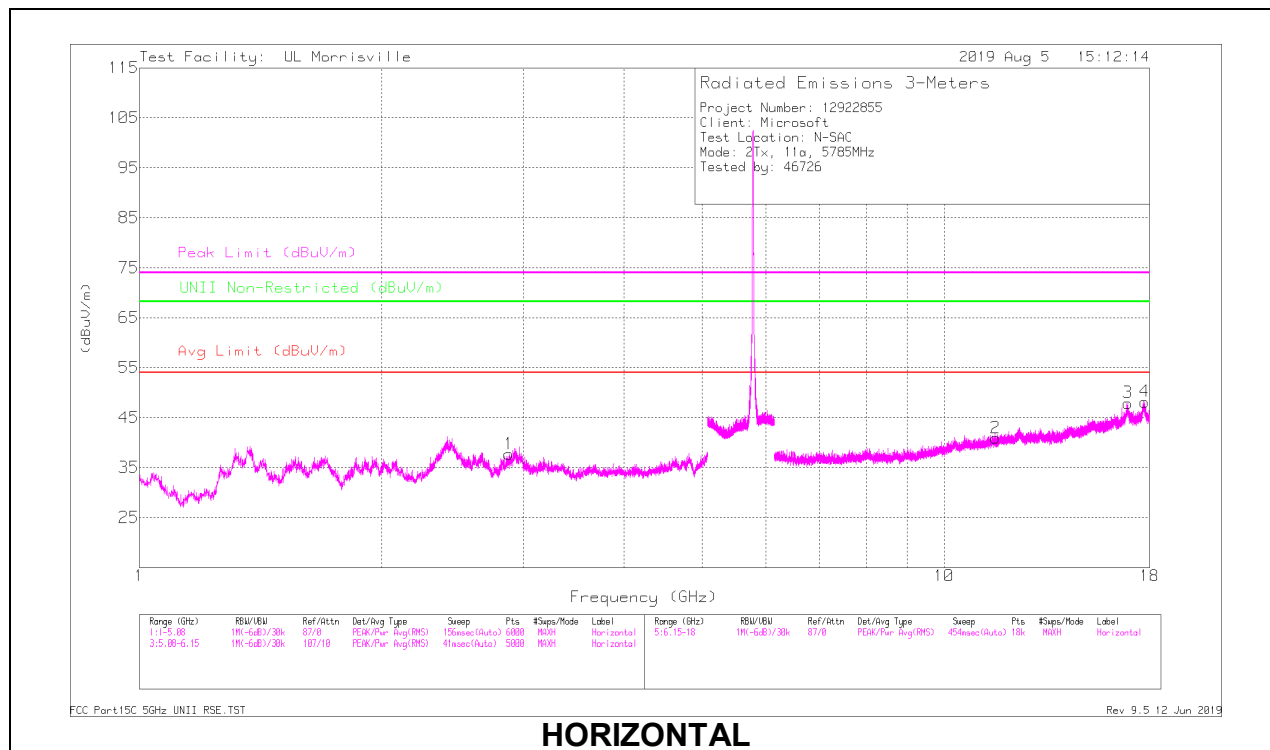
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - 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	*** 2.87097	46.5	PK-U	32.5	-33.9	0	45.1	-	-	74	-28.9	-	-	305	114	H
	*** 2.87098	34.81	ADR	32.5	-33.9	.09	33.5	54	-20.5	-	-	-	-	305	114	H
5	*** 2.85344	50.11	PK-U	32.4	-33.9	0	48.61	-	-	74	-25.39	-	-	33	206	V
	*** 2.85347	37.48	ADR	32.4	-33.9	.09	36.07	54	-17.93	-	-	-	-	33	206	V
2	*** 11.57135	42.49	PK-U	38.2	-26.3	0	54.39	-	-	74	-19.61	-	-	259	353	H
	*** 11.5713	30.4	ADR	38.2	-26.3	.09	42.39	54	-11.61	-	-	-	-	259	353	H
4	*** 17.73854	34.19	PK-U	41.1	-20.3	0	54.99	-	-	74	-19.01	-	-	189	328	H
	*** 17.73829	22.1	ADR	41.1	-20.3	.09	42.99	54	-11.01	-	-	-	-	189	328	H
6	*** 11.57096	38.11	PK-U	38.2	-26.3	0	50.01	-	-	74	-23.99	-	-	284	129	V
	*** 11.57096	25.43	ADR	38.2	-26.3	.09	37.42	54	-16.58	-	-	-	-	284	129	V
8	*** 17.73954	34.47	PK-U	41.1	-20.4	0	55.17	-	-	74	-18.83	-	-	142	105	V
	*** 17.73976	22.14	ADR	41.1	-20.4	.09	42.93	54	-11.07	-	-	-	-	142	105	V
3	16.90439	35.75	PK-U	41.3	-22.9	0	54.15	-	-	-	-	68.2	-14.05	56	239	H
7	16.92854	35.77	PK-U	41.4	-23.7	0	53.47	-	-	-	-	68.2	-14.73	77	266	V

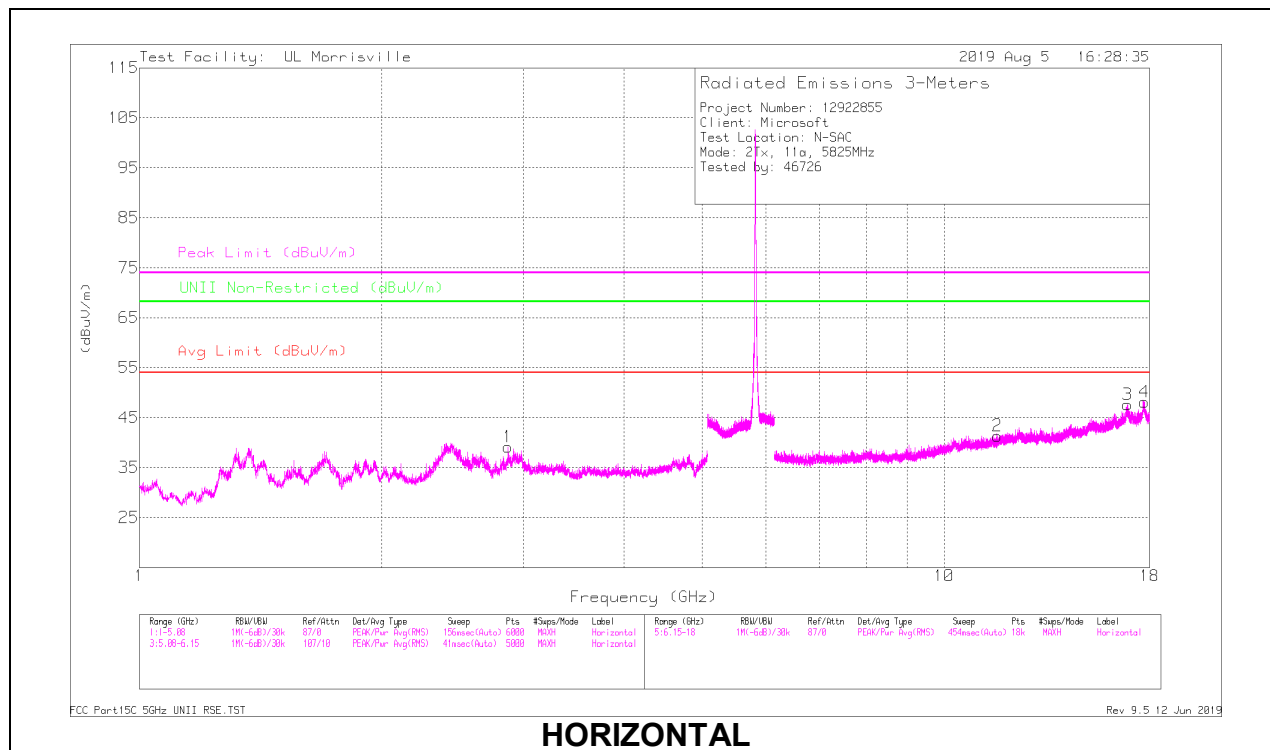
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

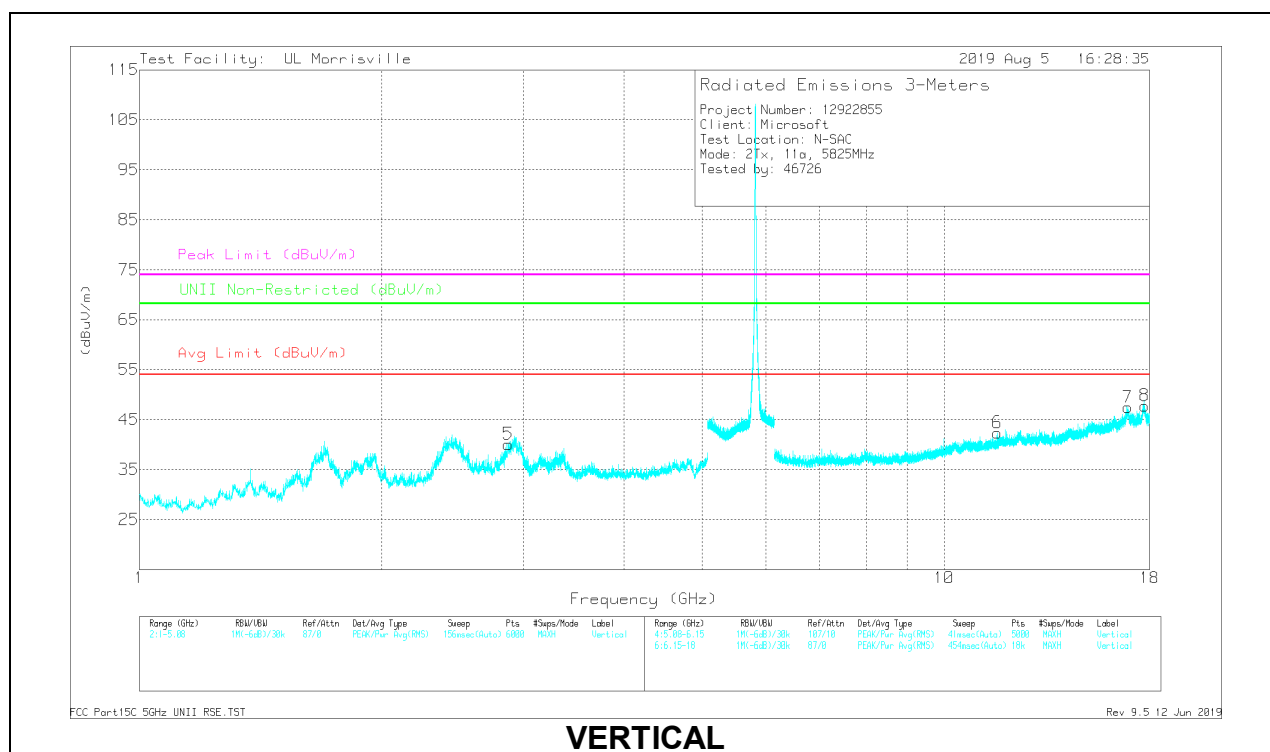
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

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	*** 2.87047	45.9	PK-U	32.5	-33.9	0	44.5	-	-	74	-29.5	-	-	304	175	H
	*** 2.87053	33.9	ADR	32.5	-33.9	.09	32.59	54	-21.41	-	-	-	-	304	175	H
5	*** 2.88628	49.59	PK-U	32.6	-33.8	0	48.39	-	-	74	-25.61	-	-	43	206	V
	*** 2.8863	37.99	ADR	32.6	-33.8	.09	36.88	54	-17.12	-	-	-	-	43	206	V
2	*** 11.64873	42.89	PK-U	38.4	-26.3	0	54.99	-	-	74	-19.01	-	-	252	323	H
	*** 11.64875	30.08	ADR	38.4	-26.3	.09	42.27	54	-11.73	-	-	-	-	252	323	H
4	*** 17.72541	34.16	PK-U	41.1	-20.4	0	54.86	-	-	74	-19.14	-	-	66	282	H
	*** 17.72545	22.06	ADR	41.1	-20.4	.09	42.85	54	-11.15	-	-	-	-	66	282	H
6	*** 11.6494	38.07	PK-U	38.4	-26.3	0	50.17	-	-	74	-23.83	-	-	347	280	V
	*** 11.64936	25.66	ADR	38.4	-26.3	.09	37.85	54	-16.15	-	-	-	-	347	280	V
8	*** 17.76613	35.13	PK-U	41.1	-21.3	0	54.93	-	-	74	-19.07	-	-	314	313	V
	*** 17.76606	21.84	ADR	41.1	-21.3	.09	41.73	54	-12.27	-	-	-	-	314	313	V
3	16.90822	36.54	PK-U	41.3	-22.9	0	54.94	-	-	-	-	68.2	-13.26	282	152	H
7	16.91317	36.21	PK-U	41.4	-23.1	0	54.51	-	-	-	-	68.2	-13.69	90	201	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

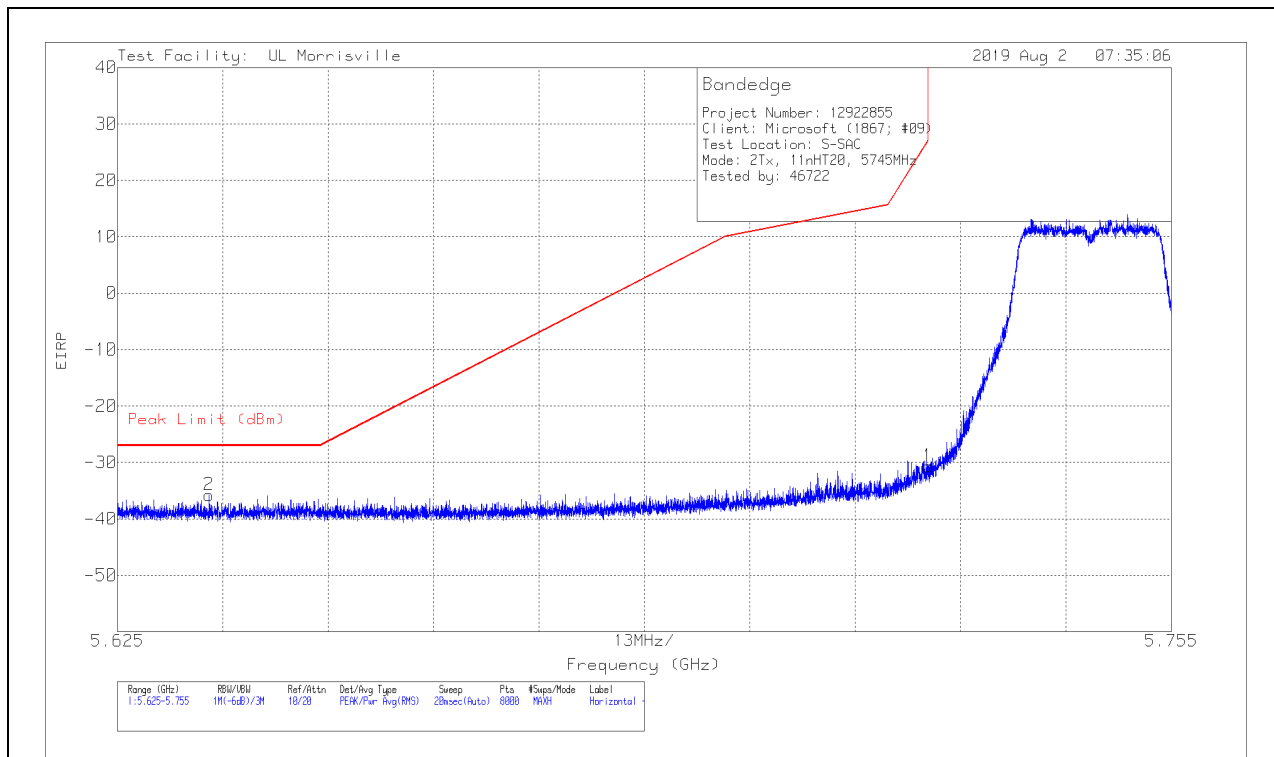
ADR - U-NII AD primary method, RMS average

8.2.2. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.8 GHz BAND

2TX Antenna 1 + Antenna 2 SDM MODE

BANDEDGE (LOW CHANNEL)

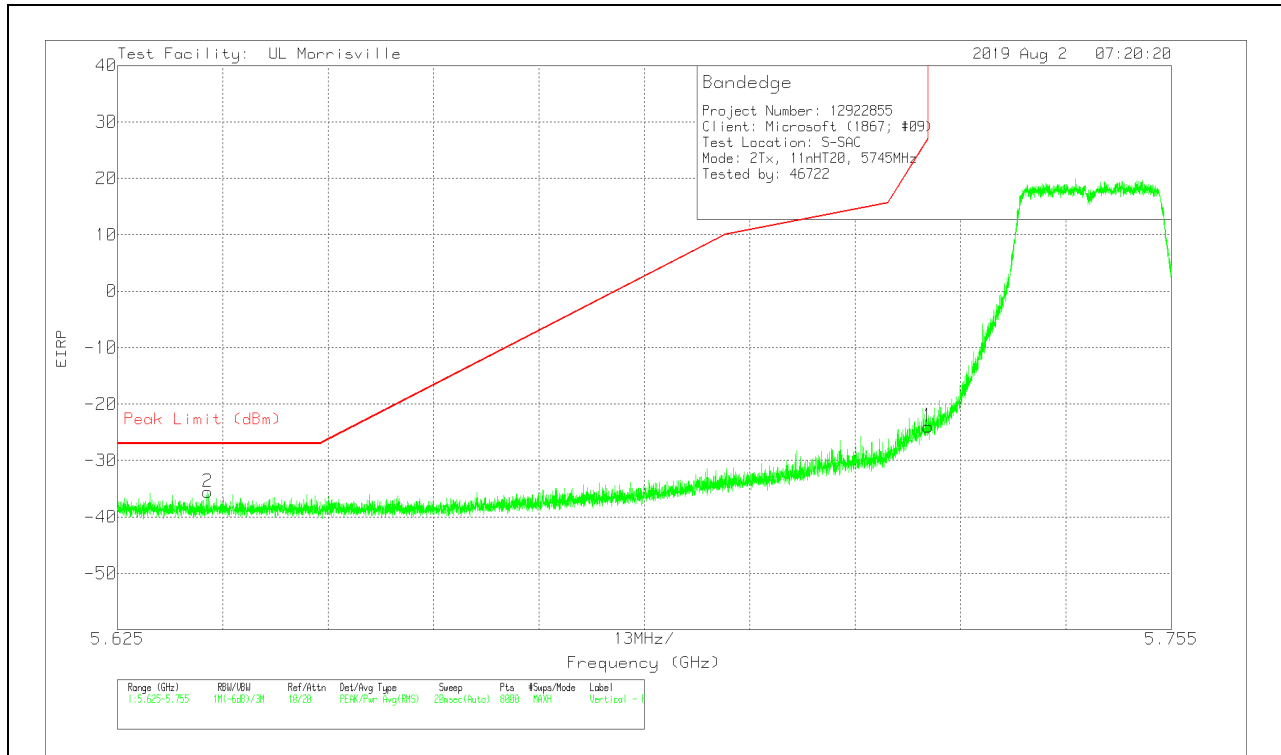
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.6363	-58.88	Pk	34.7	-23.4	11.8	-35.78	-27	-8.78	22	370	H
1	5.725	-53.91	Pk	34.7	-23.3	11.8	-30.71	27	-57.71	22	370	H

Pk - Peak detector

VERTICAL RESULT

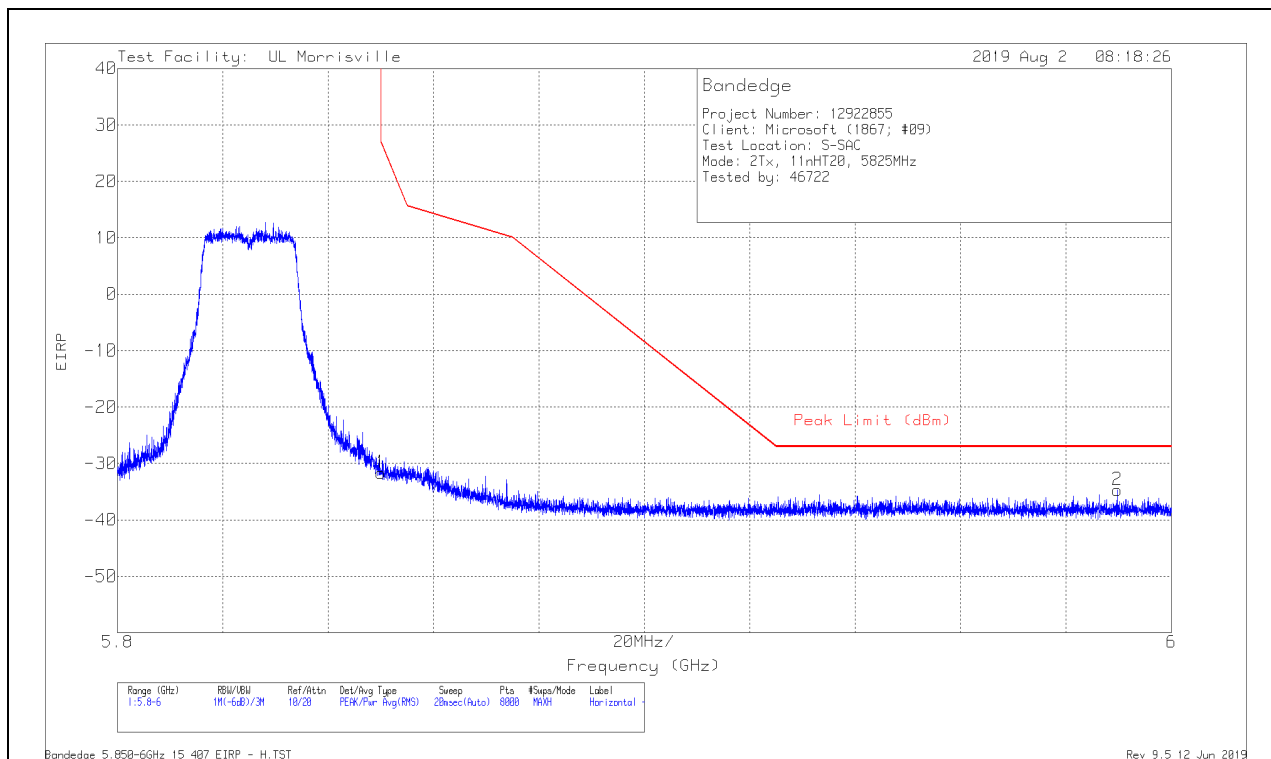


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.63615	-58.66	Pk	34.7	-23.4	11.8	-35.56	-27	-8.56	359	254	V
1	5.725	-47.15	Pk	34.7	-23.3	11.8	-23.95	27	-50.95	359	254	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

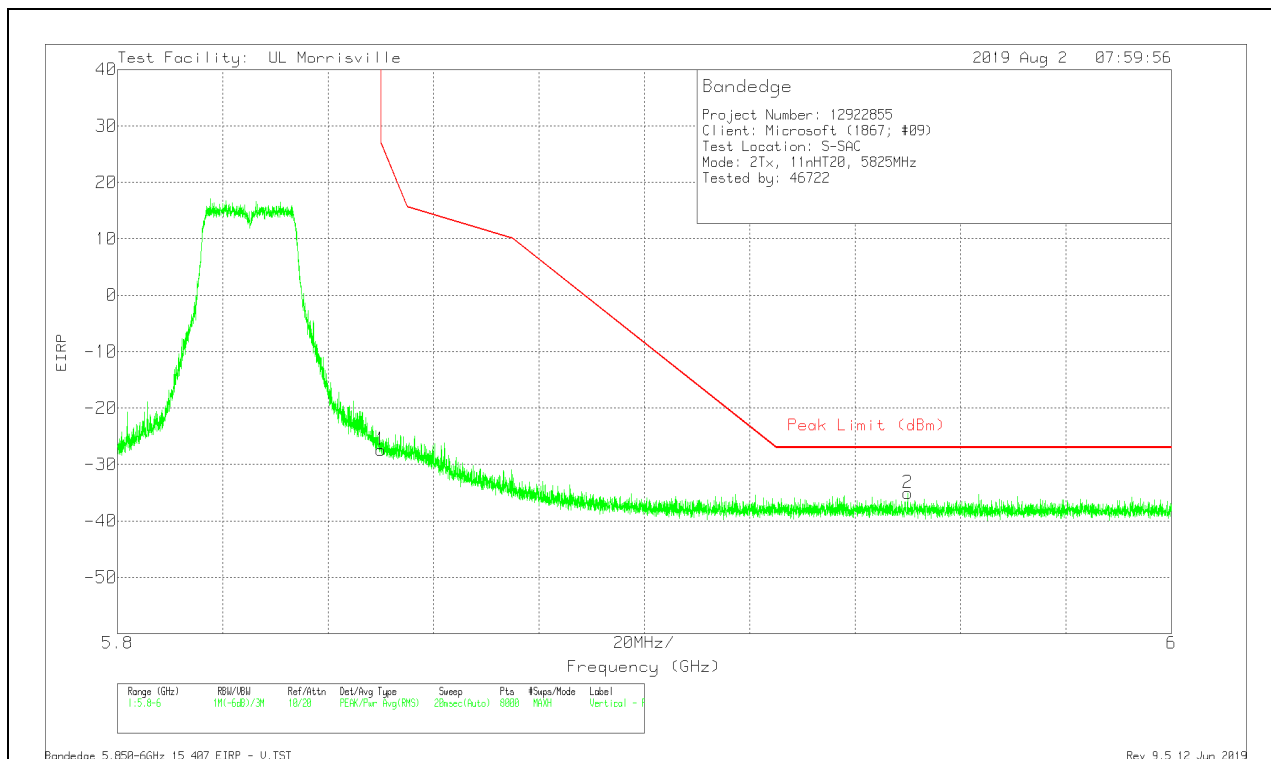
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85001	-55.17	Pk	34.8	-23.1	11.8	-31.67	26.99	-58.66	11	375	H
2	5.9897	-58.63	Pk	35	-22.9	11.8	-34.73	-27	-7.73	11	375	H

Pk - Peak detector

VERTICAL RESULT

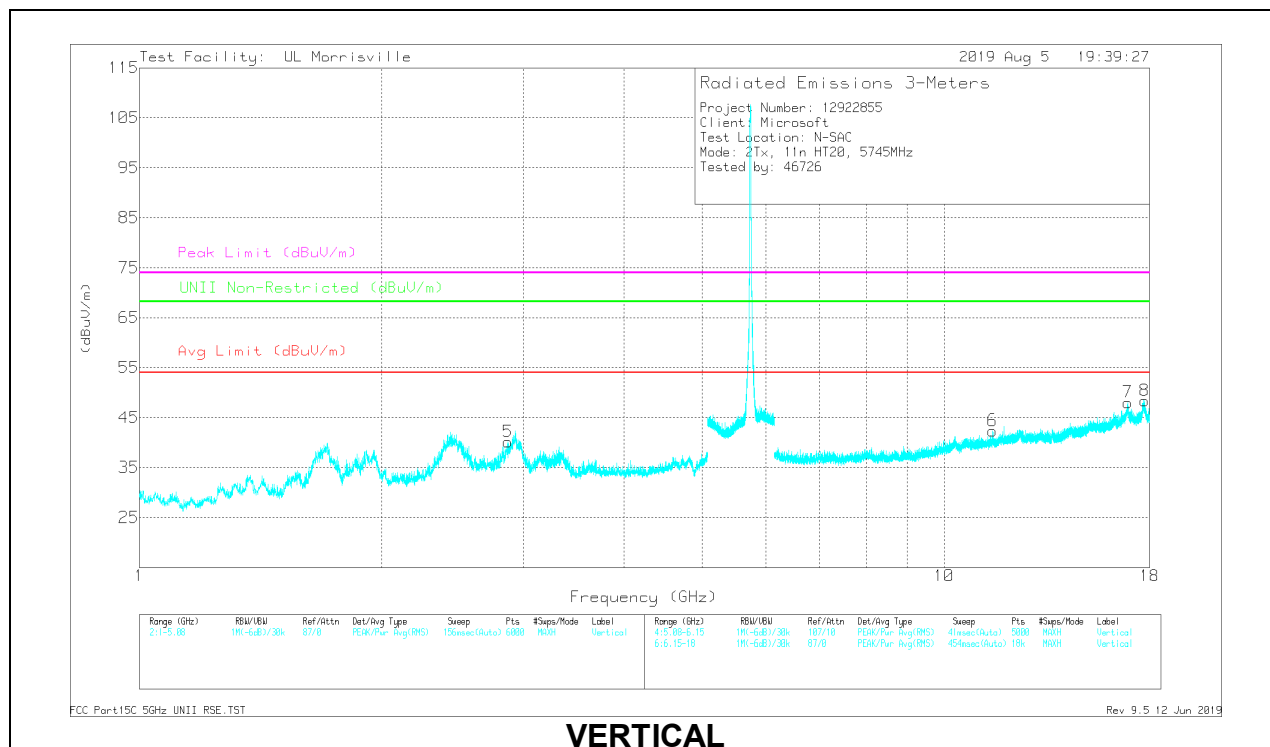
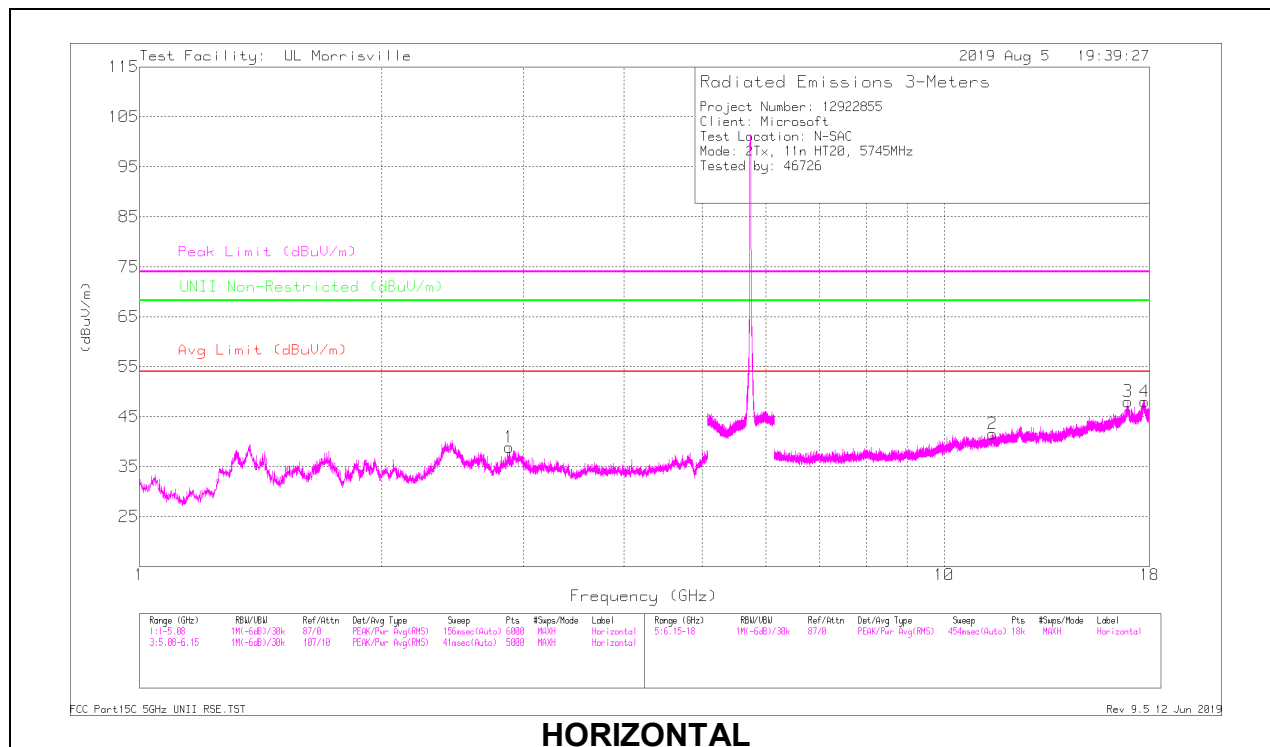


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85001	-50.9	Pk	34.8	-23.1	11.8	-27.4	26.99	-54.39	93	213	V
2	5.94994	-59.05	Pk	34.9	-22.7	11.8	-35.05	-27	-8.05	93	213	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	* ** 2.87102	48.73	PK-U	32.5	-33.9	47.33	-	-	74	-26.67	-	-	301	103	H
	* ** 2.87091	35.61	ADR	32.5	-33.9	34.21	54	-19.79	-	-	-	-	301	103	H
5	* ** 2.88893	50.09	PK-U	32.6	-33.8	48.89	-	-	74	-25.11	-	-	36	227	V
	* ** 2.88882	37.91	ADR	32.6	-33.8	36.71	54	-17.29	-	-	-	-	36	227	V
2	* ** 11.49112	40.94	PK-U	38.2	-25.3	53.84	-	-	74	-20.16	-	-	260	342	H
	* ** 11.49115	28.32	ADR	38.2	-25.3	41.22	54	-12.78	-	-	-	-	260	342	H
4	* ** 17.73857	34.23	PK-U	41.1	-20.3	55.03	-	-	74	-18.97	-	-	245	173	H
	* ** 17.73858	22.05	ADR	41.1	-20.3	42.85	54	-11.15	-	-	-	-	245	173	H
6	* ** 11.48914	37.2	PK-U	38.1	-25.3	50	-	-	74	-24	-	-	285	284	V
	* ** 11.48912	25.07	ADR	38.1	-25.3	37.87	54	-16.13	-	-	-	-	285	284	V
8	* ** 17.75454	34.13	PK-U	41.1	-20.8	54.43	-	-	74	-19.57	-	-	78	210	V
	* ** 17.75454	22.02	ADR	41.1	-20.8	42.32	54	-11.68	-	-	-	-	78	210	V
7	16.91211	36.46	PK-U	41.4	-23.1	54.76	-	-	-	-	68.2	-13.44	354	284	V
3	16.92203	35.77	PK-U	41.4	-23.5	53.67	-	-	-	-	68.2	-14.53	115	134	H

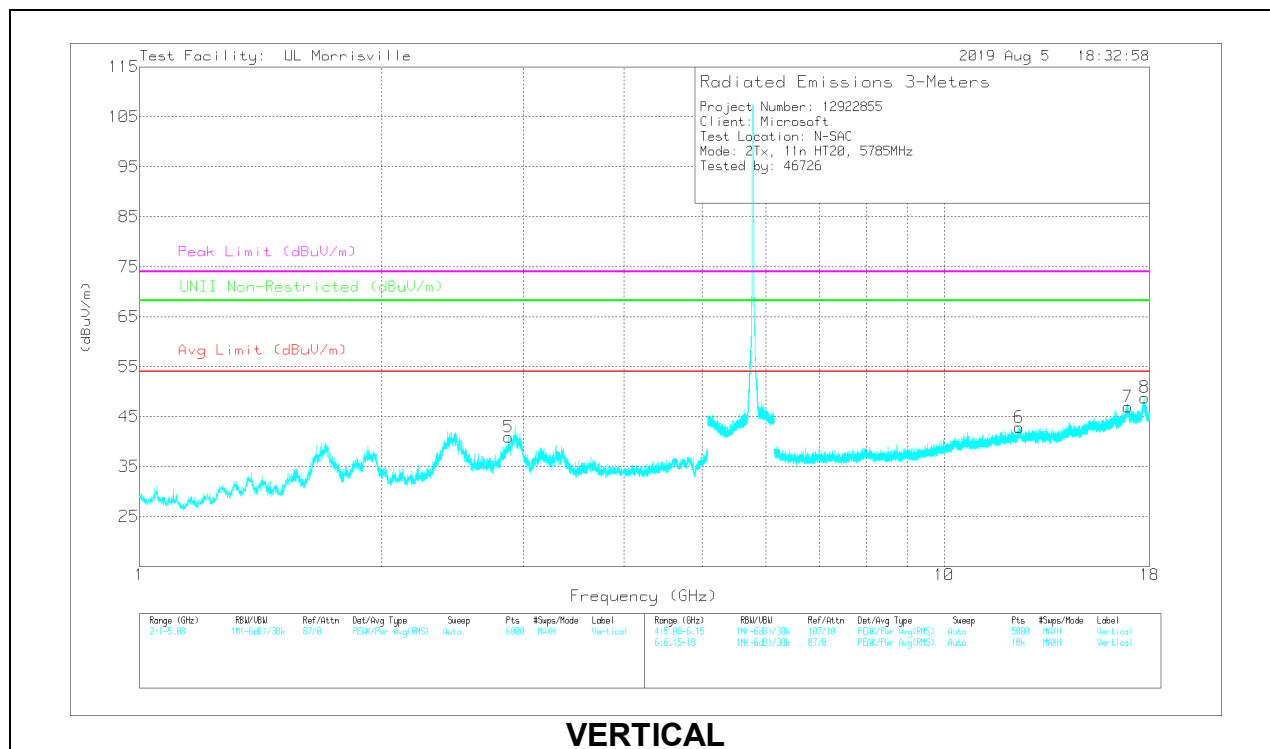
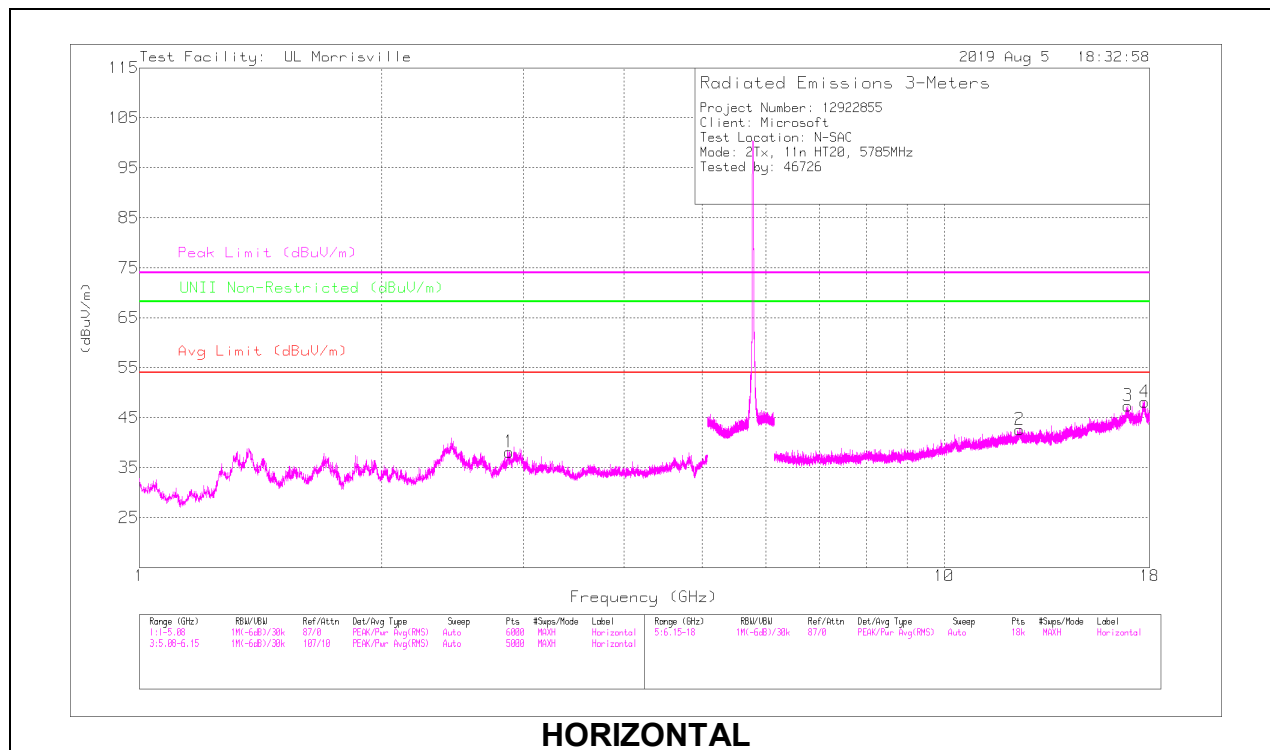
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - 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	* ** 2.88008	47.79	PK-U	32.6	-33.8	46.59	-	-	74	-27.41	-	-	302	103	H
	* ** 2.88009	35.51	ADR	32.6	-33.8	34.31	54	-19.69	-	-	-	-	302	103	H
5	* ** 2.87141	50.56	PK-U	32.5	-33.9	49.16	-	-	74	-24.84	-	-	36	227	V
	* ** 2.87137	38.48	ADR	32.5	-33.9	37.08	54	-16.92	-	-	-	-	36	227	V
2	* ** 12.40199	35.15	PK-U	38.8	-24.9	49.05	-	-	74	-24.95	-	-	225	190	H
	* ** 12.40216	23.25	ADR	38.8	-24.9	37.15	54	-16.85	-	-	-	-	225	190	H
4	* ** 17.74177	34.26	PK-U	41.1	-20.4	54.96	-	-	74	-19.04	-	-	214	137	H
	* ** 17.74177	22.03	ADR	41.1	-20.4	42.73	54	-11.27	-	-	-	-	214	137	H
6	* ** 12.39542	36.04	PK-U	38.8	-25	49.84	-	-	74	-24.16	-	-	78	168	V
	* ** 12.39543	23.32	ADR	38.8	-25	37.12	54	-16.88	-	-	-	-	78	168	V
8	* ** 17.73784	34.26	PK-U	41.1	-20.3	55.06	-	-	74	-18.94	-	-	199	254	V
	* ** 17.73784	22.08	ADR	41.1	-20.3	42.88	54	-11.12	-	-	-	-	199	254	V
7	16.90853	35.79	PK-U	41.3	-22.9	54.19	-	-	-	-	68.2	-14.01	229	176	V
3	16.92671	35.77	PK-U	41.4	-23.7	53.47	-	-	-	-	68.2	-14.73	109	327	H

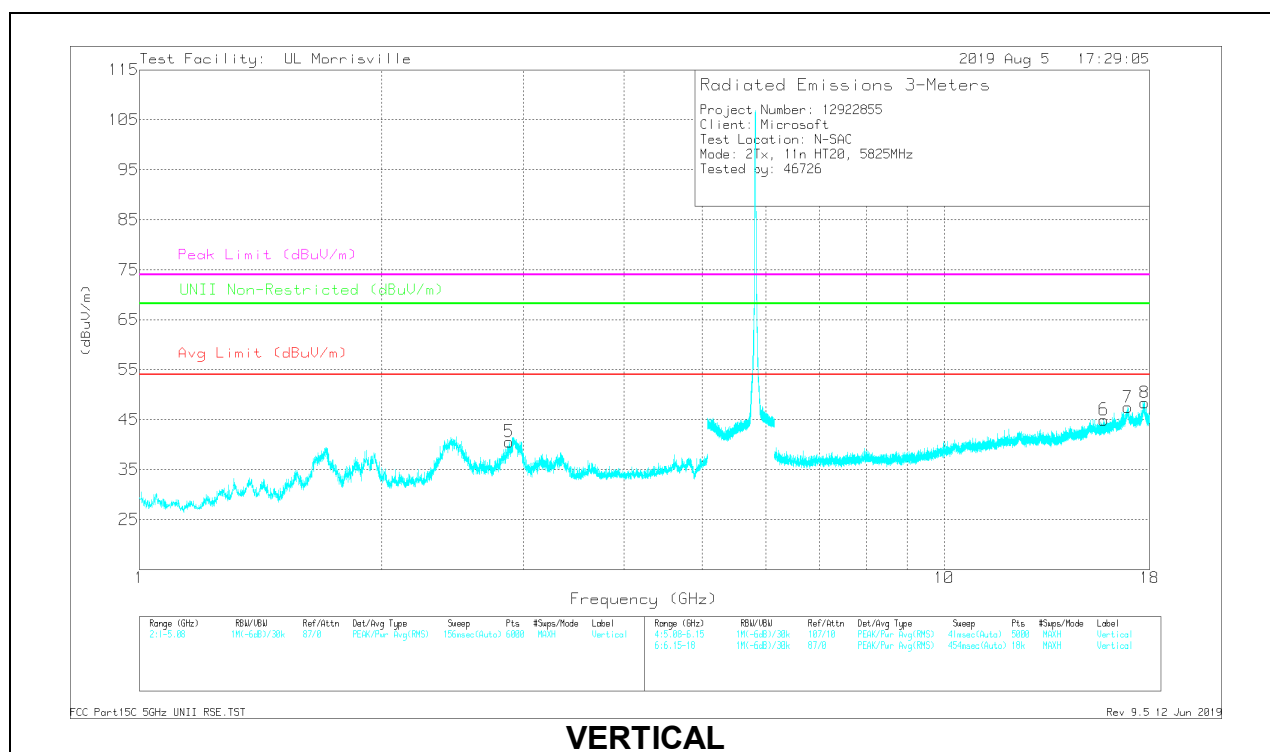
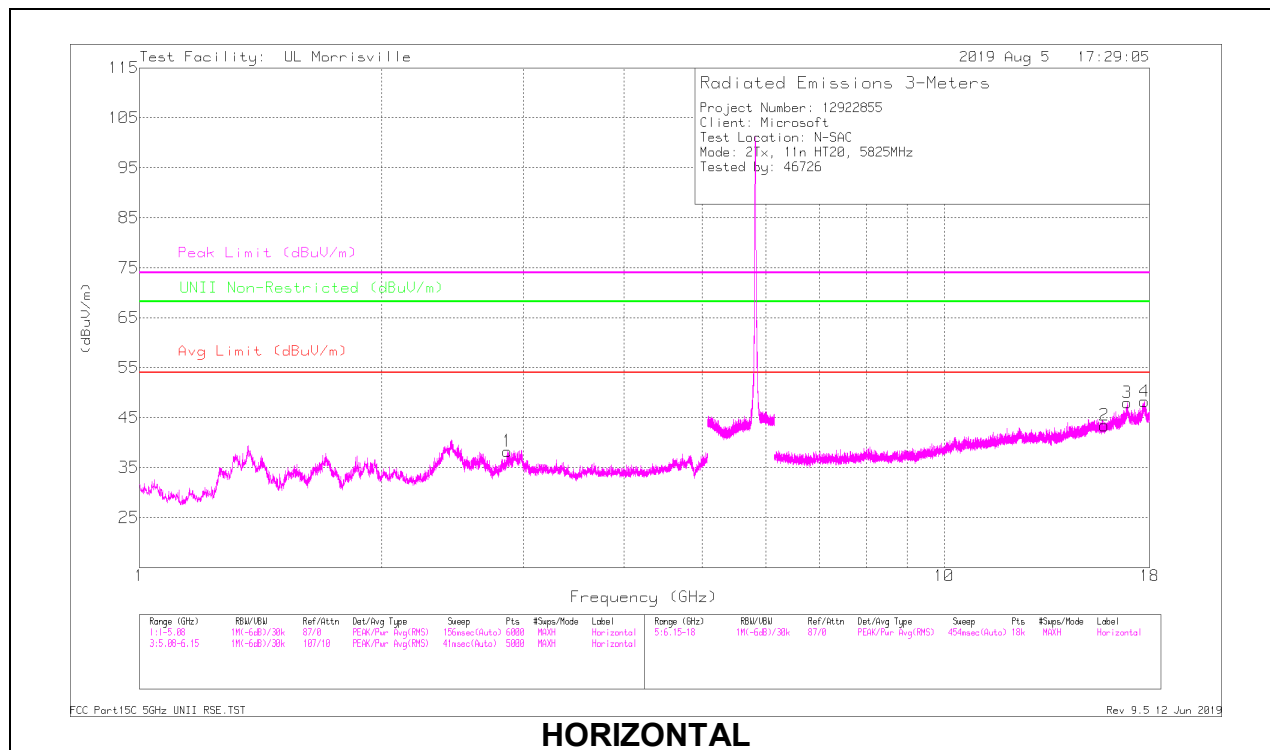
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - 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	* ** 2.87659	47.77	PK-U	32.6	-33.8	46.57	-	-	74	-27.43	-	-	302	104	H
	* ** 2.87654	35.41	ADR	32.6	-33.8	34.21	54	-19.79	-	-	-	-	302	104	H
5	* ** 2.8907	41.9	PK-U	32.6	-33.8	40.7	-	-	74	-33.3	-	-	38	313	V
	* ** 2.89071	30.03	ADR	32.6	-33.8	28.83	54	-25.17	-	-	-	-	38	313	V
2	* ** 15.8278	35.74	PK-U	40.2	-25.6	50.34	-	-	74	-23.66	-	-	134	368	H
	* ** 15.8277	23.83	ADR	40.2	-25.6	38.43	54	-15.57	-	-	-	-	134	368	H
4	* ** 17.73454	34.15	PK-U	41.1	-20.3	54.95	-	-	74	-19.05	-	-	301	368	H
	* ** 17.73443	21.9	ADR	41.1	-20.3	42.7	54	-11.3	-	-	-	-	301	368	H
6	* ** 15.80703	35.96	PK-U	40.2	-25.5	50.66	-	-	74	-23.34	-	-	61	266	V
	* ** 15.807	23.99	ADR	40.2	-25.5	38.69	54	-15.31	-	-	-	-	61	266	V
8	* ** 17.75664	34.48	PK-U	41.1	-20.9	54.68	-	-	74	-19.32	-	-	74	174	V
	* ** 17.75658	22.01	ADR	41.1	-20.9	42.21	54	-11.79	-	-	-	-	74	174	V
3	16.89983	36.22	PK-U	41.3	-22.9	54.62	-	-	-	-	68.2	-13.58	85	256	H
7	16.91673	35.81	PK-U	41.4	-23.3	53.91	-	-	-	-	68.2	-14.29	152	324	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

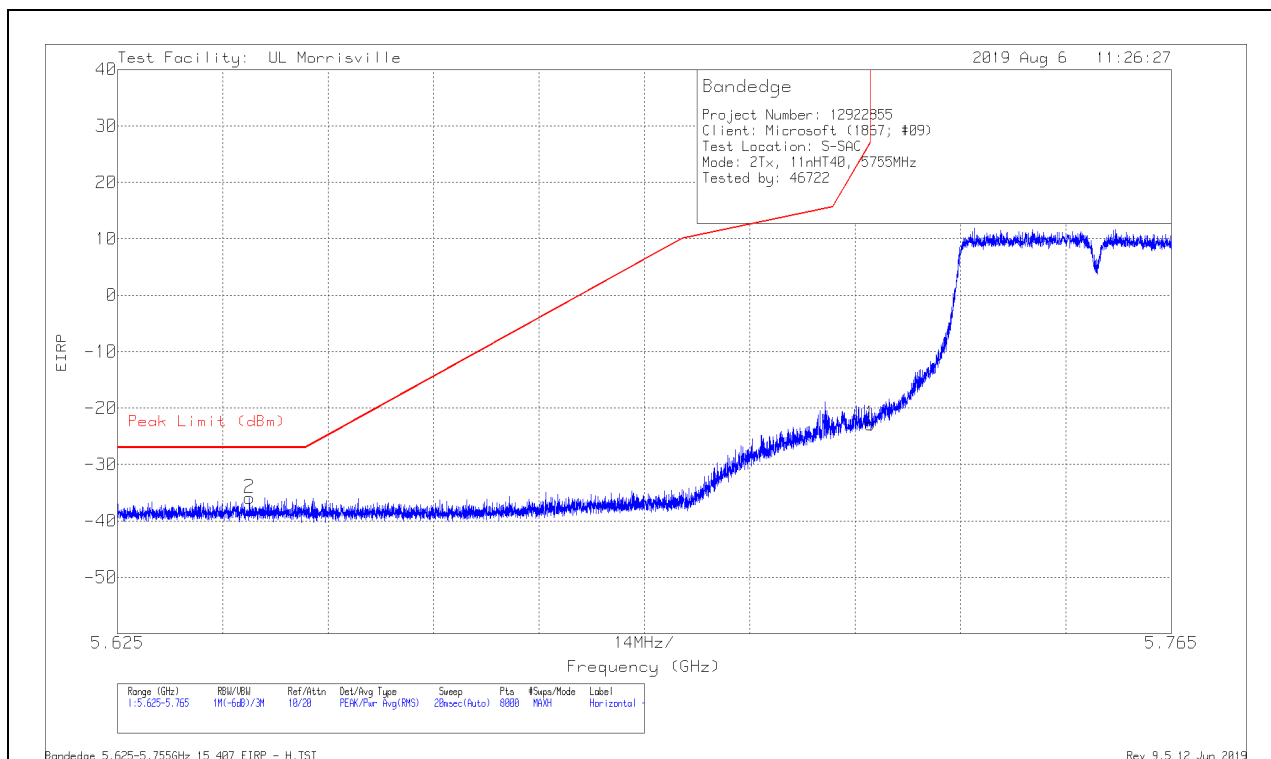
ADR - U-NII AD primary method, RMS average

8.2.3. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.8 GHz BAND

2TX Antenna 1 + Antenna 2 SDM MODE

BANDEDGE (LOW CHANNEL)

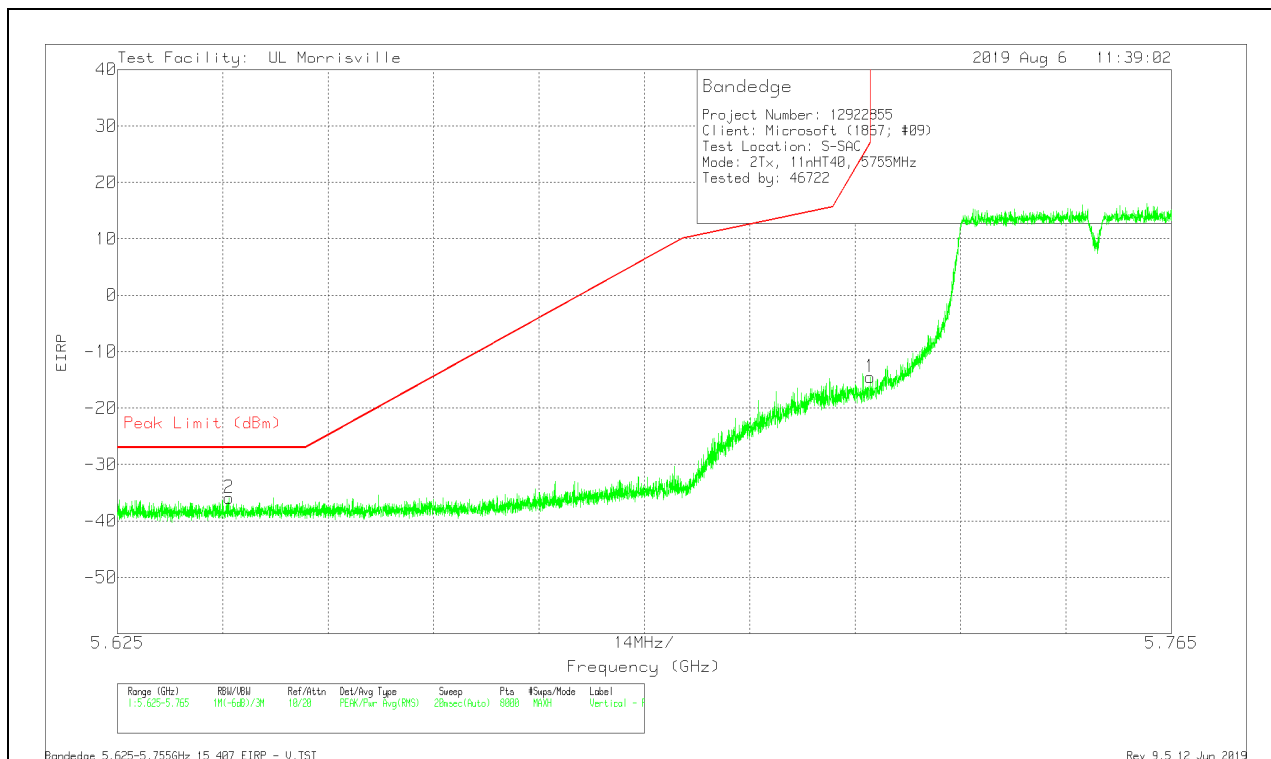
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64252	-59.06	Pk	34.7	-23.3	11.8	-35.86	-27	-8.86	66	389	H
1	5.72499	-46.04	Pk	34.7	-23.3	11.8	-22.84	26.97	-49.81	66	389	H

Pk - Peak detector

VERTICAL RESULT

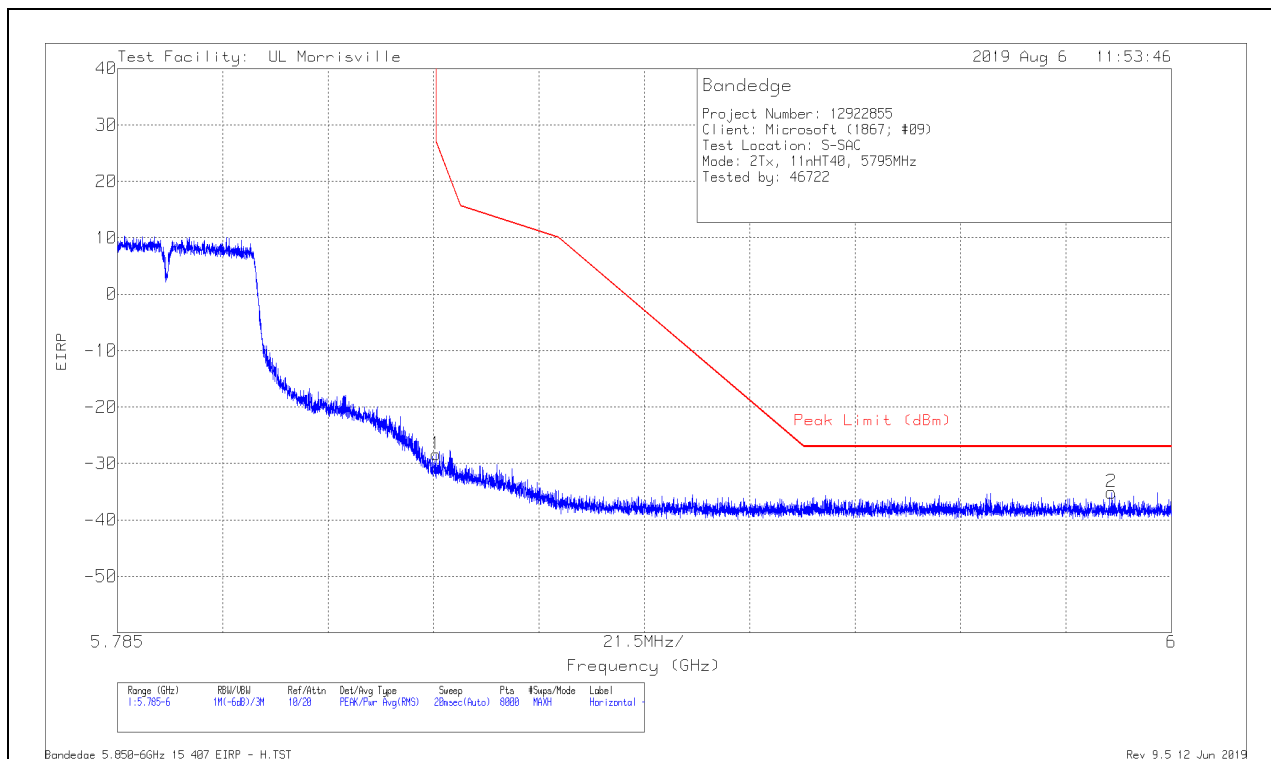


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.63979	-59.09	Pk	34.7	-23.3	11.8	-35.89	-27	-8.89	350	244	V
1	5.72499	-37.72	Pk	34.7	-23.3	11.8	-14.52	26.97	-41.49	350	244	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

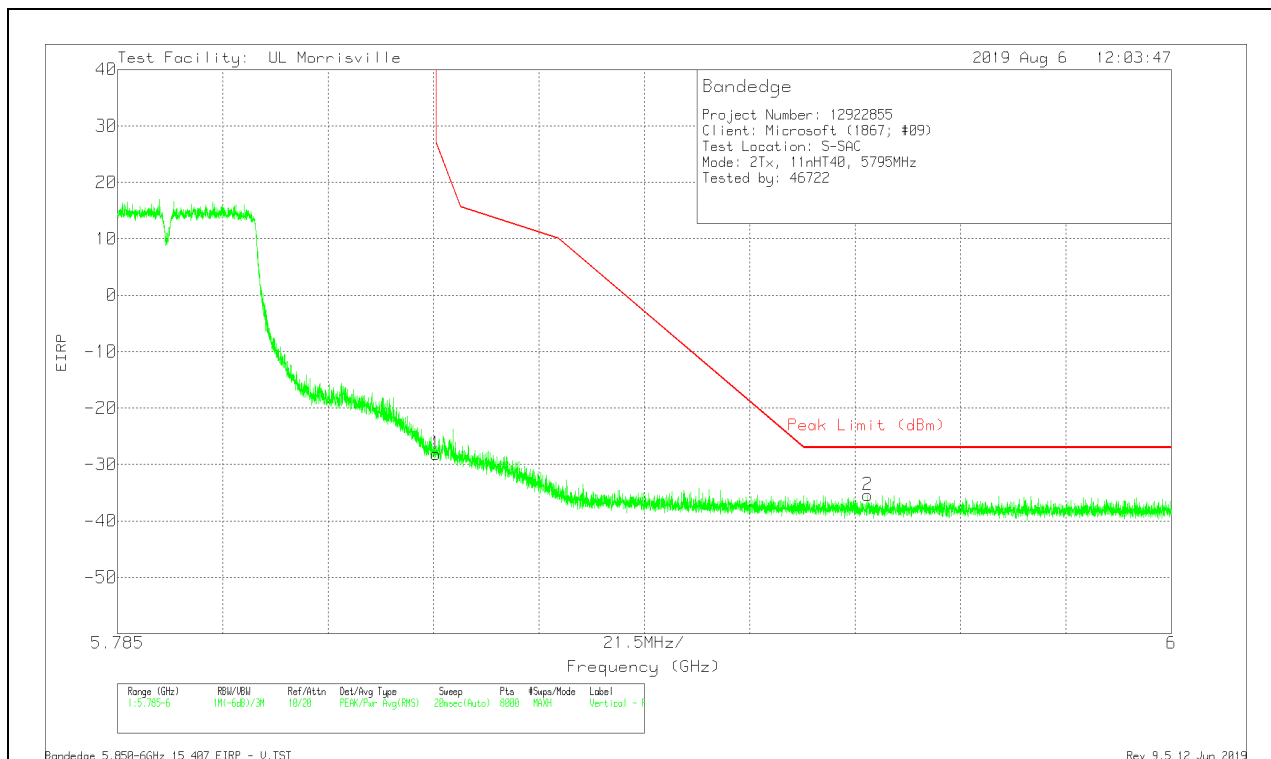
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-51.9	Pk	34.8	-23.1	11.8	-28.4	26.96	-55.36	18	284	H
2	5.98777	-59.02	Pk	35	-22.9	11.8	-35.12	-27	-8.12	18	284	H

Pk - Peak detector

VERTICAL RESULT

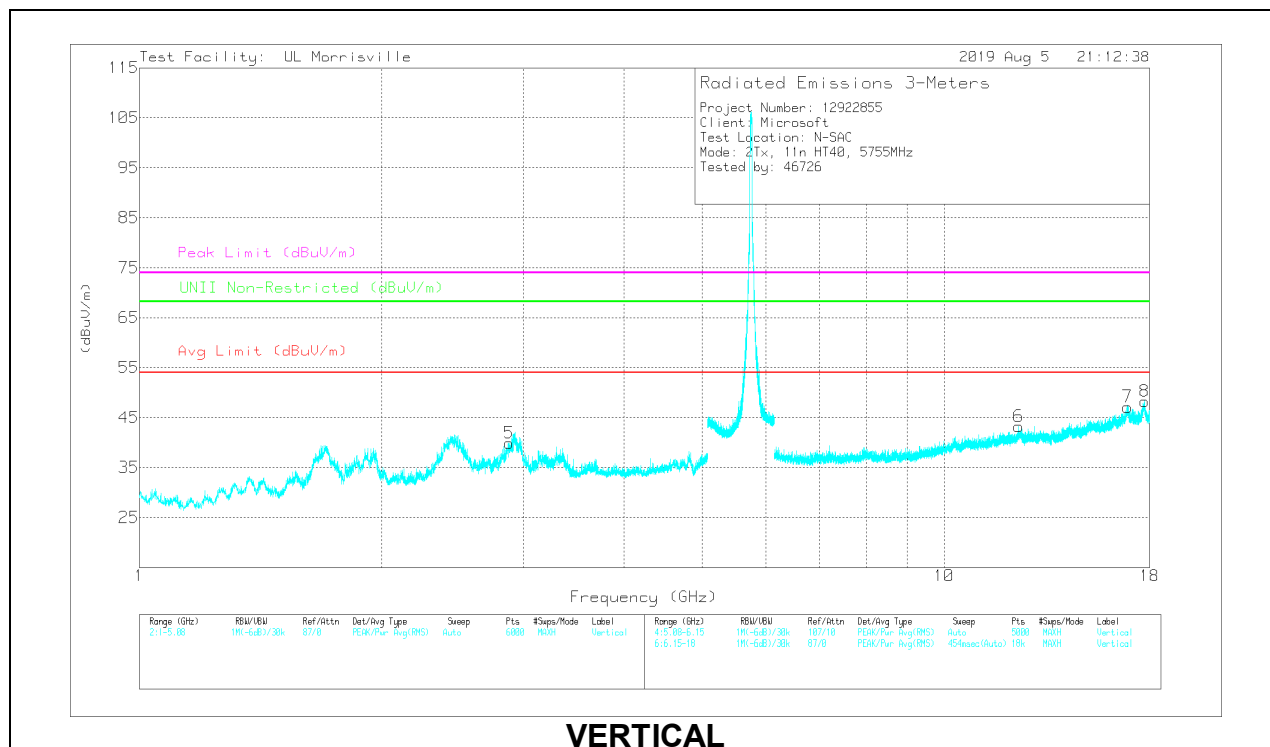
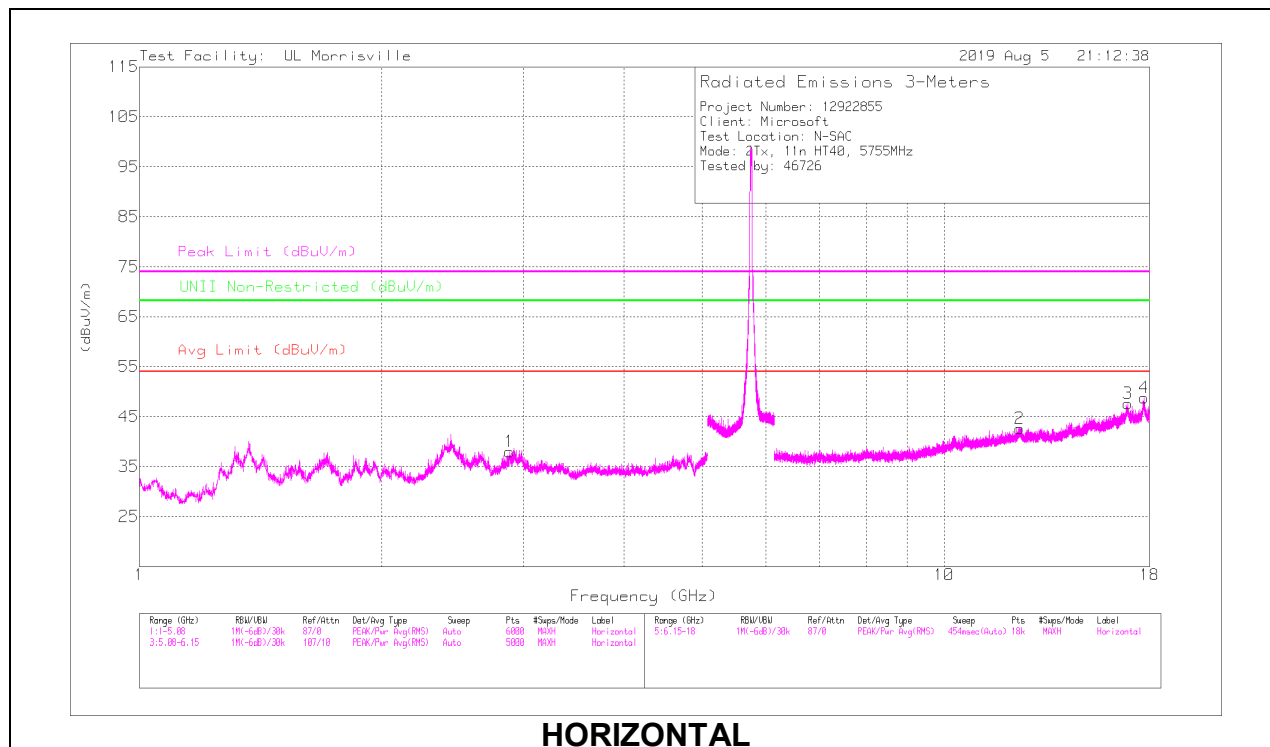


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-51.63	Pk	34.8	-23.1	11.8	-28.13	26.96	-55.09	346	213	V
2	5.93804	-59.35	Pk	34.9	-22.8	11.8	-35.45	-27	-8.45	346	213	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	* ** 2.87252	48.18	PK-U	32.5	-33.9	46.78	-	-	74	-27.22	-	-	301	105	H
	* ** 2.87258	35.57	ADR	32.5	-33.9	34.17	54	-19.83	-	-	-	-	301	105	H
5	* ** 2.8841	50.37	PK-U	32.6	-33.8	49.17	-	-	74	-24.83	-	-	31	204	V
	* ** 2.88412	37.62	ADR	32.6	-33.8	36.42	54	-17.58	-	-	-	-	31	204	V
2	* ** 12.41408	35.18	PK-U	38.8	-24.8	49.18	-	-	74	-24.82	-	-	320	187	H
	* ** 12.41416	23.14	ADR	38.8	-24.8	37.14	54	-16.86	-	-	-	-	320	187	H
4	* ** 17.72186	34.99	PK-U	41.1	-20.5	55.59	-	-	74	-18.41	-	-	360	238	H
	* ** 17.72182	21.92	ADR	41.1	-20.5	42.52	54	-11.48	-	-	-	-	360	238	H
6	* ** 12.37699	35.84	PK-U	38.8	-25.4	49.24	-	-	74	-24.76	-	-	234	102	V
	* ** 12.377	23.33	ADR	38.8	-25.4	36.73	54	-17.27	-	-	-	-	234	102	V
8	* ** 17.75755	34.4	PK-U	41.1	-20.9	54.6	-	-	74	-19.4	-	-	122	393	V
	* ** 17.75757	21.97	ADR	41.1	-20.9	42.17	54	-11.83	-	-	-	-	122	393	V
7	16.90234	35.85	PK-U	41.3	-22.9	54.25	-	-	-	-	68.2	-13.95	265	211	V
3	16.90354	35.44	PK-U	41.3	-22.9	53.84	-	-	-	-	68.2	-14.36	271	291	H

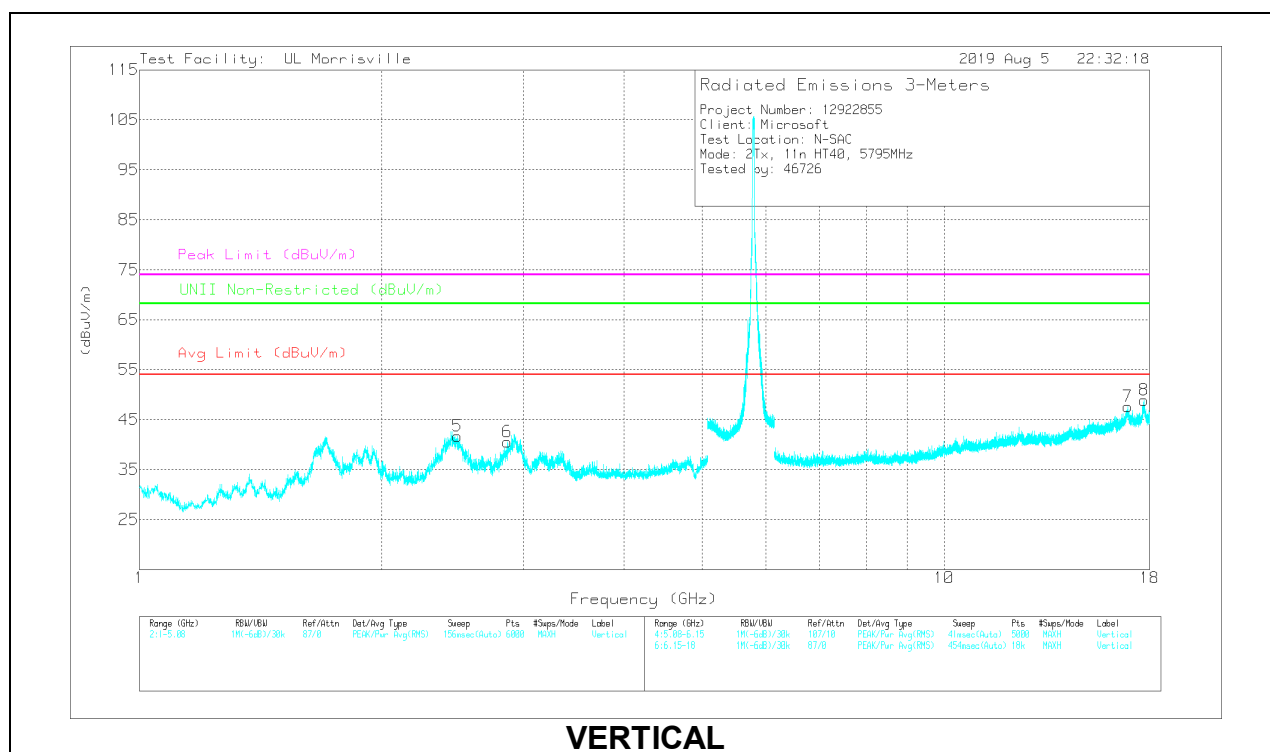
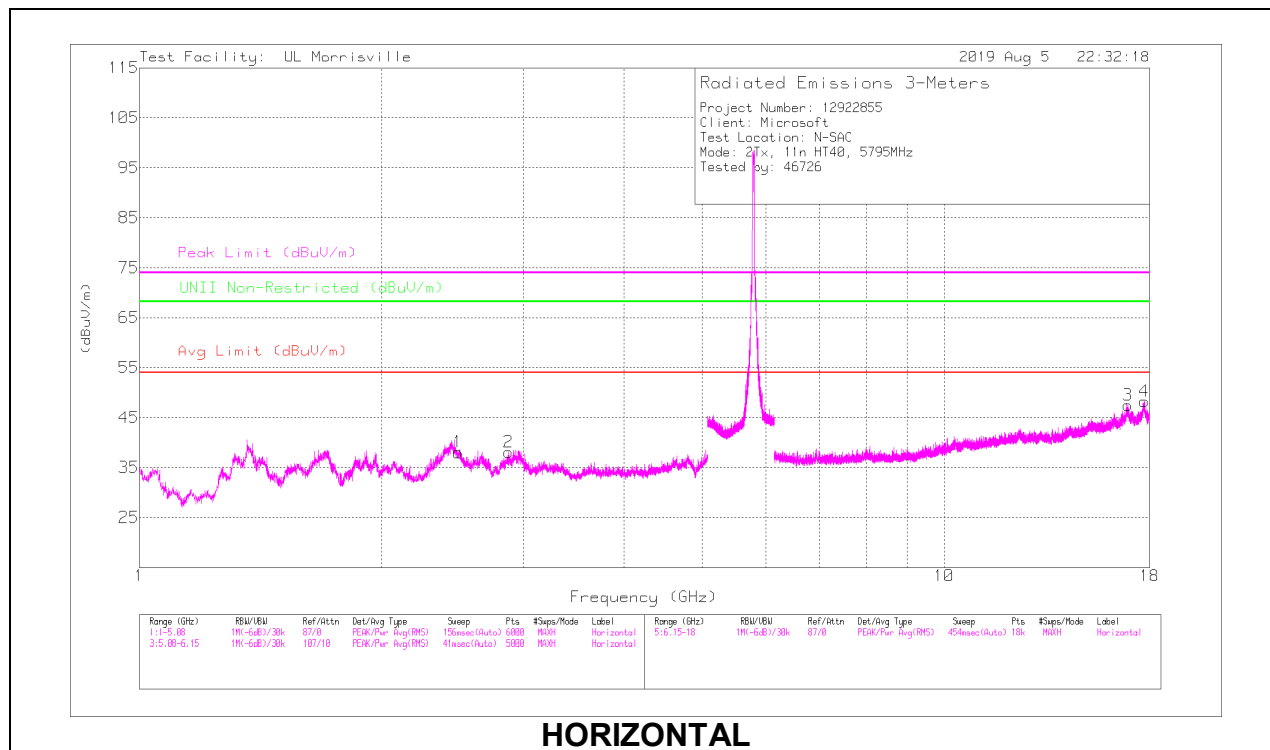
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - 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	* ** 2.49016	46.29	PK-U	32.4	-34.2	44.49	-	-	74	-29.51	-	-	344	109	H
	* ** 2.49015	34.32	ADR	32.4	-34.2	32.52	54	-21.48	-	-	-	-	344	109	H
2	* ** 2.86755	47.69	PK-U	32.5	-33.9	46.29	-	-	74	-27.71	-	-	297	103	H
	* ** 2.86758	35.6	ADR	32.5	-33.9	34.2	54	-19.8	-	-	-	-	297	103	H
5	* ** 2.4849	51.61	PK-U	32.4	-34.2	49.81	-	-	74	-24.19	-	-	27	230	V
	* ** 2.4849	39.83	ADR	32.4	-34.2	38.03	54	-15.97	-	-	-	-	27	230	V
6	* ** 2.88319	50.81	PK-U	32.6	-33.8	49.61	-	-	74	-24.39	-	-	36	225	V
	* ** 2.88327	38.71	ADR	32.6	-33.8	37.51	54	-16.49	-	-	-	-	36	225	V
4	* ** 17.73163	34.16	PK-U	41.1	-20.3	54.96	-	-	74	-19.04	-	-	16	244	H
	* ** 17.73162	22.06	ADR	41.1	-20.3	42.86	54	-11.14	-	-	-	-	16	244	H
8	* ** 17.71135	34.12	PK-U	41.1	-20.9	54.32	-	-	74	-19.68	-	-	213	118	V
	* ** 17.71132	22.17	ADR	41.1	-20.9	42.37	54	-11.63	-	-	-	-	213	118	V
3	16.91325	35.75	PK-U	41.4	-23.1	54.05	-	-	-	-	68.2	-14.15	25	102	H
7	16.91454	37.37	PK-U	41.4	-23.2	55.57	-	-	-	-	68.2	-12.63	302	134	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

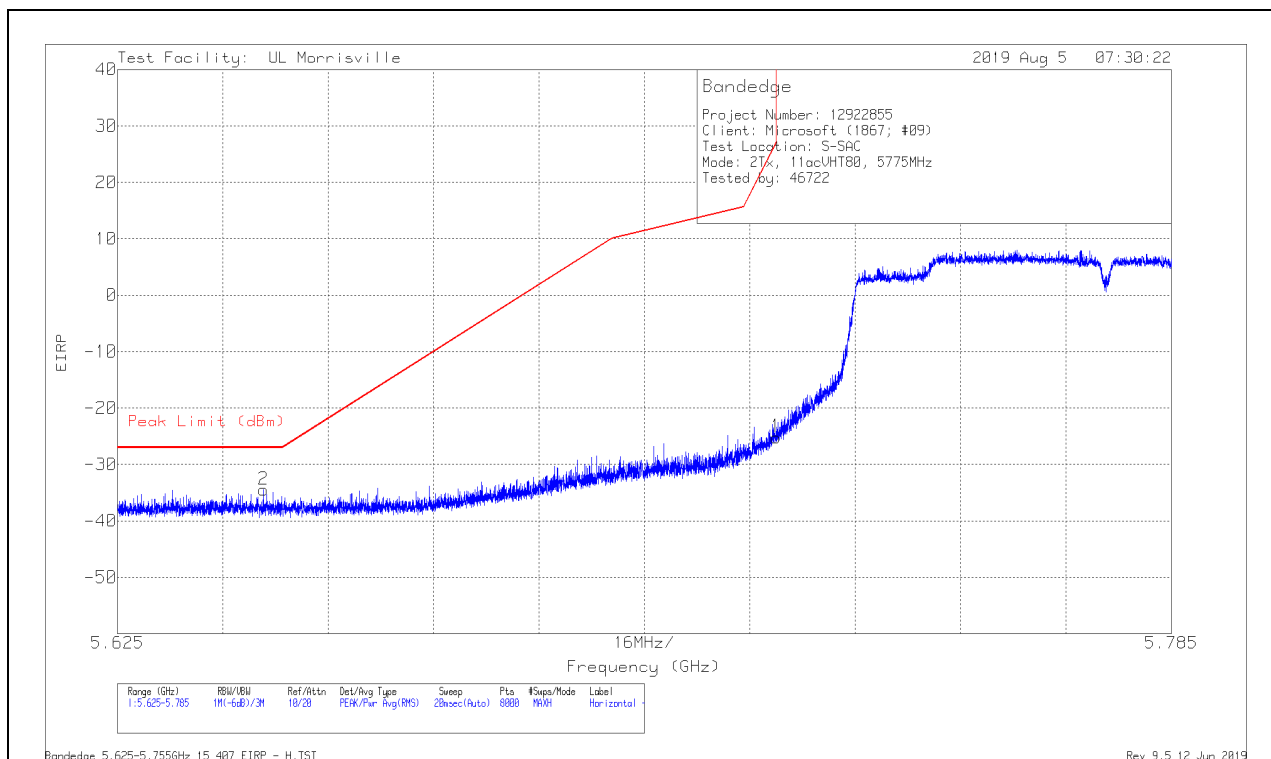
ADR - U-NII AD primary method, RMS average

8.2.4. TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

2TX Antenna 1 + Antenna 2 SDM MODE

BANDEDGE (CHANNEL 155 LOW EDGE)

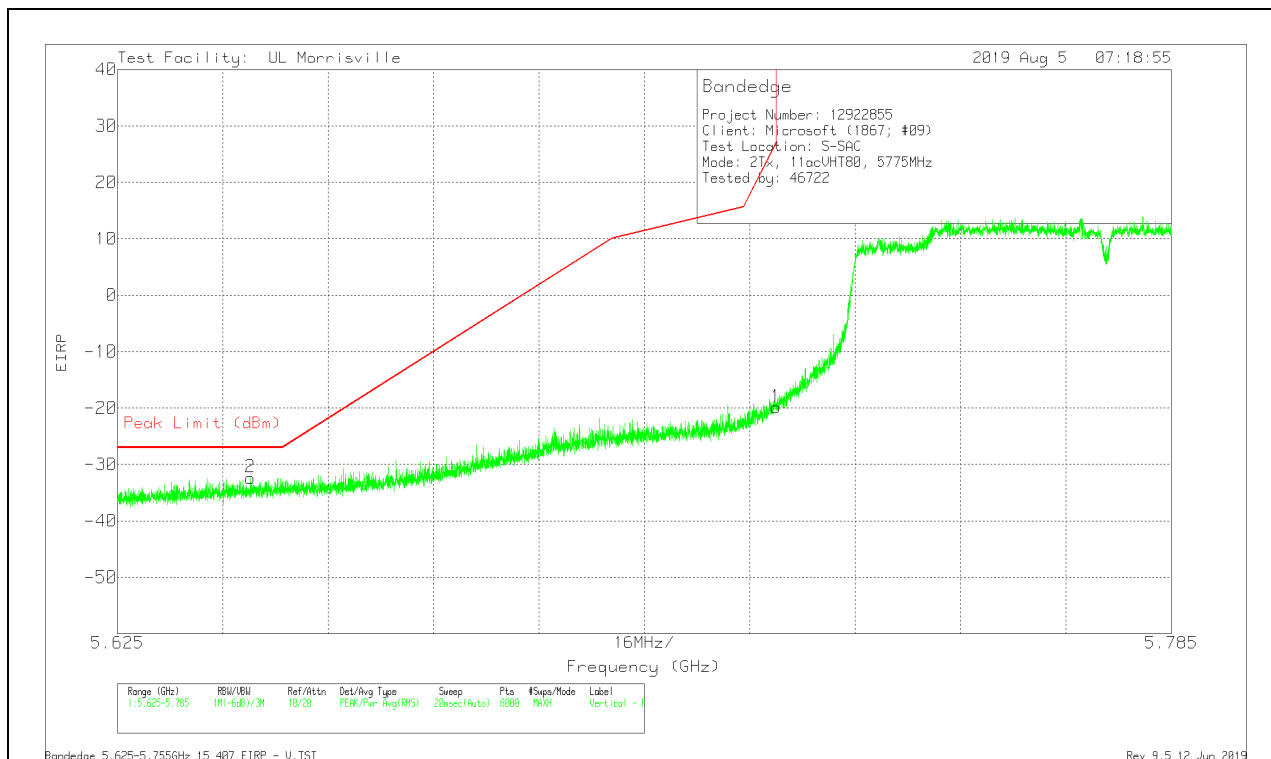
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64716	-57.78	Pk	34.7	-23.2	11.8	-34.48	-27	-7.48	319	380	H
1	5.725	-48.38	Pk	34.7	-23.3	11.8	-25.18	26.99	-52.17	319	380	H

Pk - Peak detector

VERTICAL RESULT

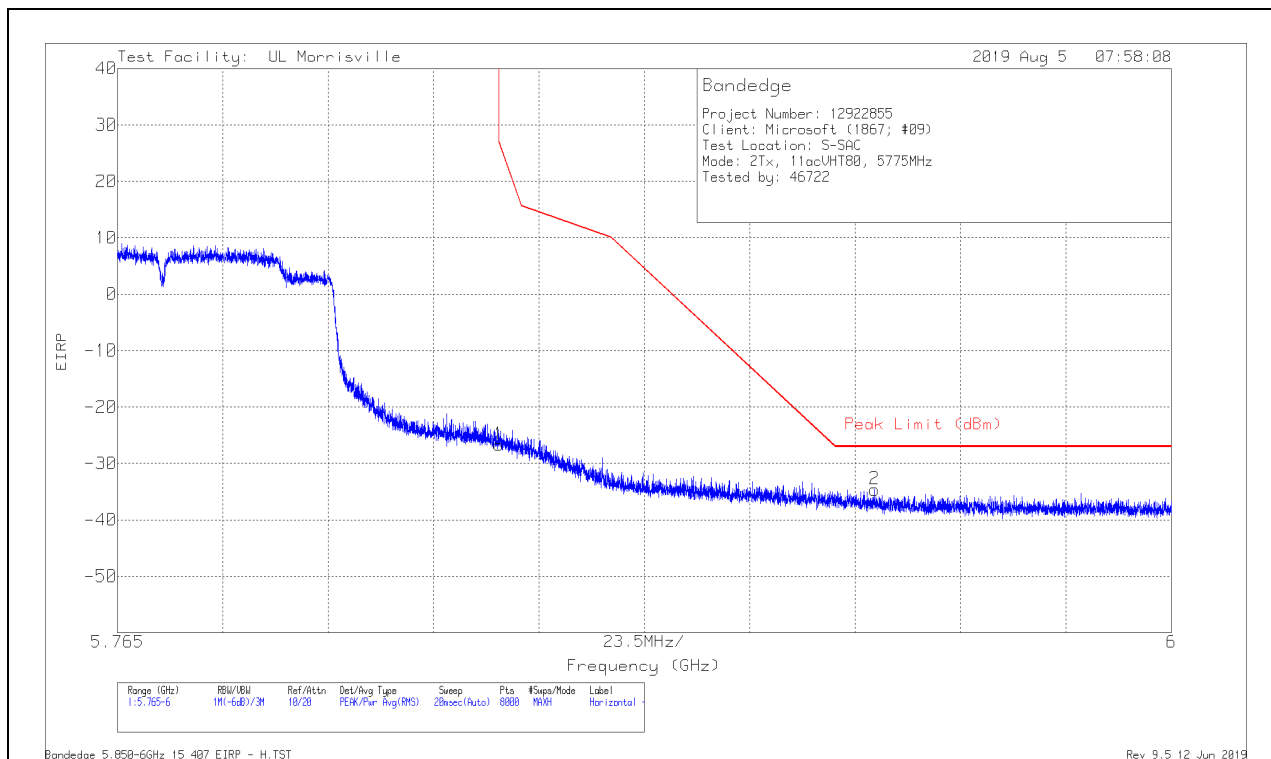


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.6452	-55.63	Pk	34.7	-23.2	11.8	-32.33	-27	-5.33	344	241	V
1	5.725	-43.08	Pk	34.7	-23.3	11.8	-19.88	26.99	-46.87	344	241	V

Pk - Peak detector

BANDEDGE (CHANNEL 155 HIGH EDGE)

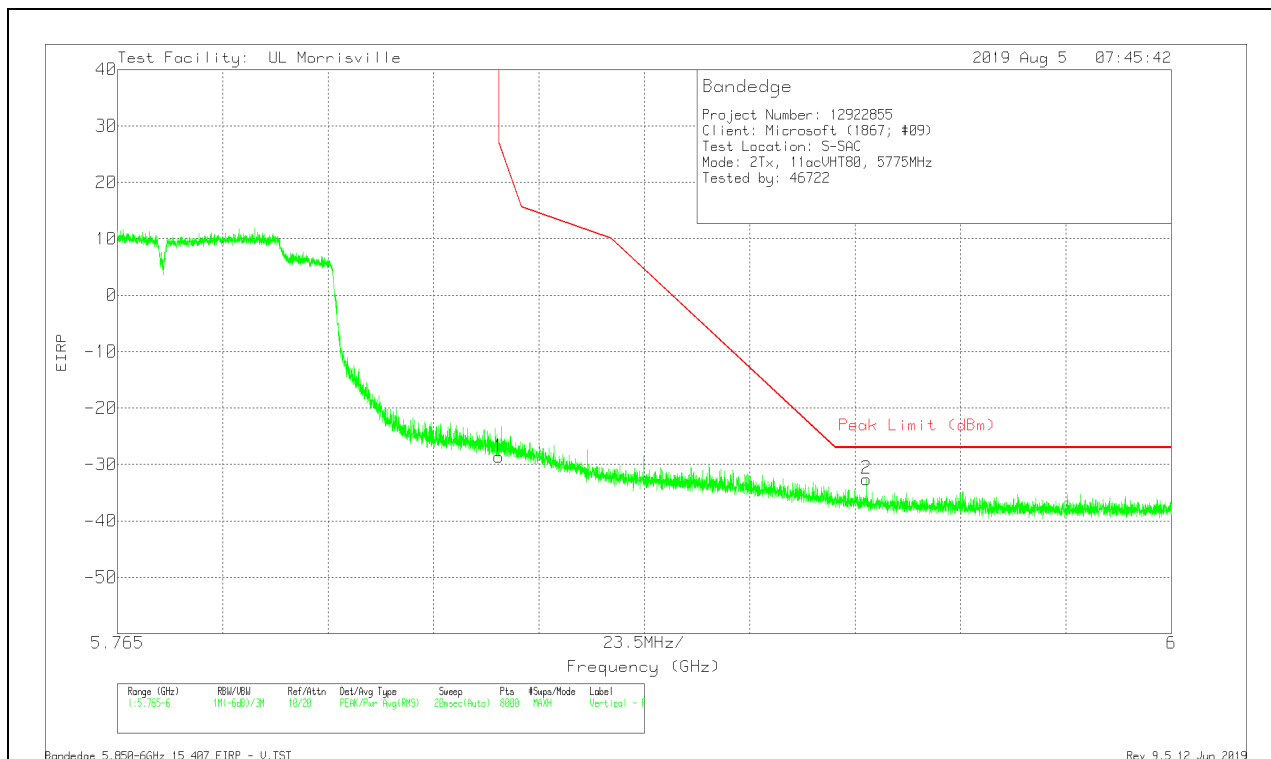
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-50.17	Pk	34.8	-23.1	11.8	-26.67	26.95	-53.62	5	401	H
2	5.93384	-58.53	Pk	34.9	-22.8	11.8	-34.63	-27	-7.63	5	401	H

Pk - Peak detector

VERTICAL RESULT

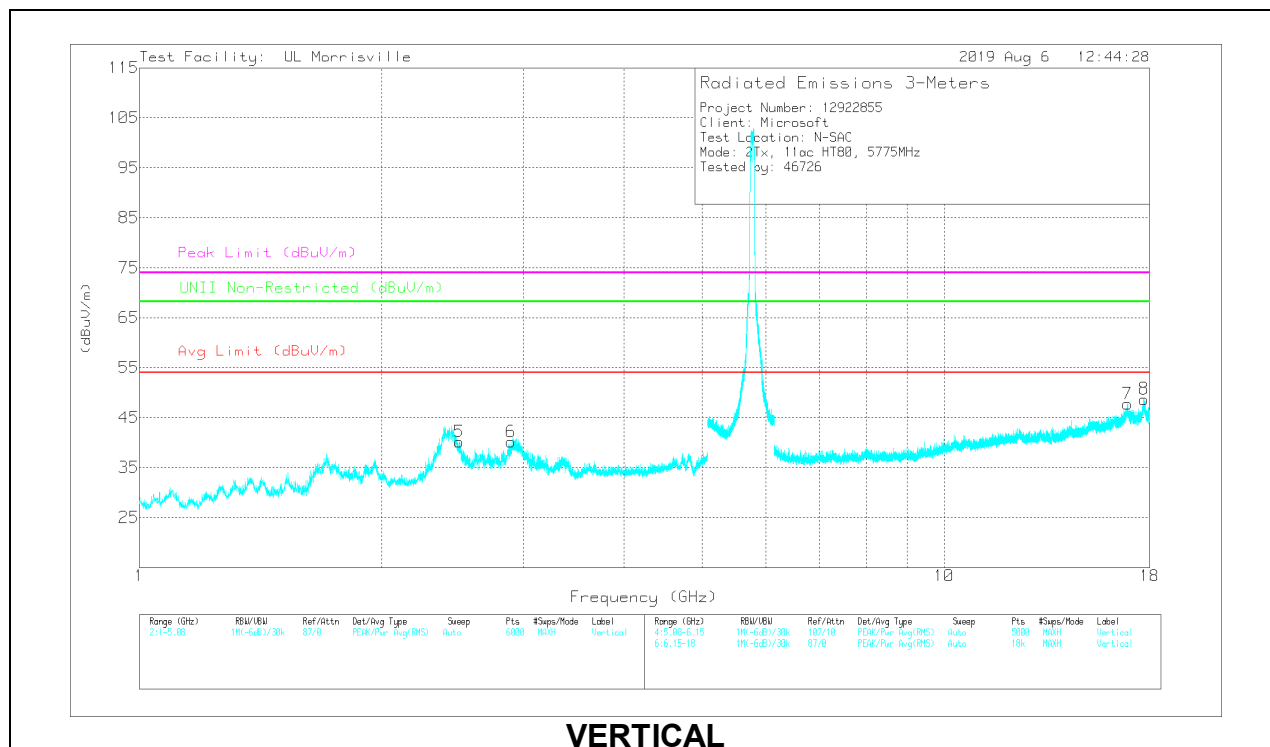
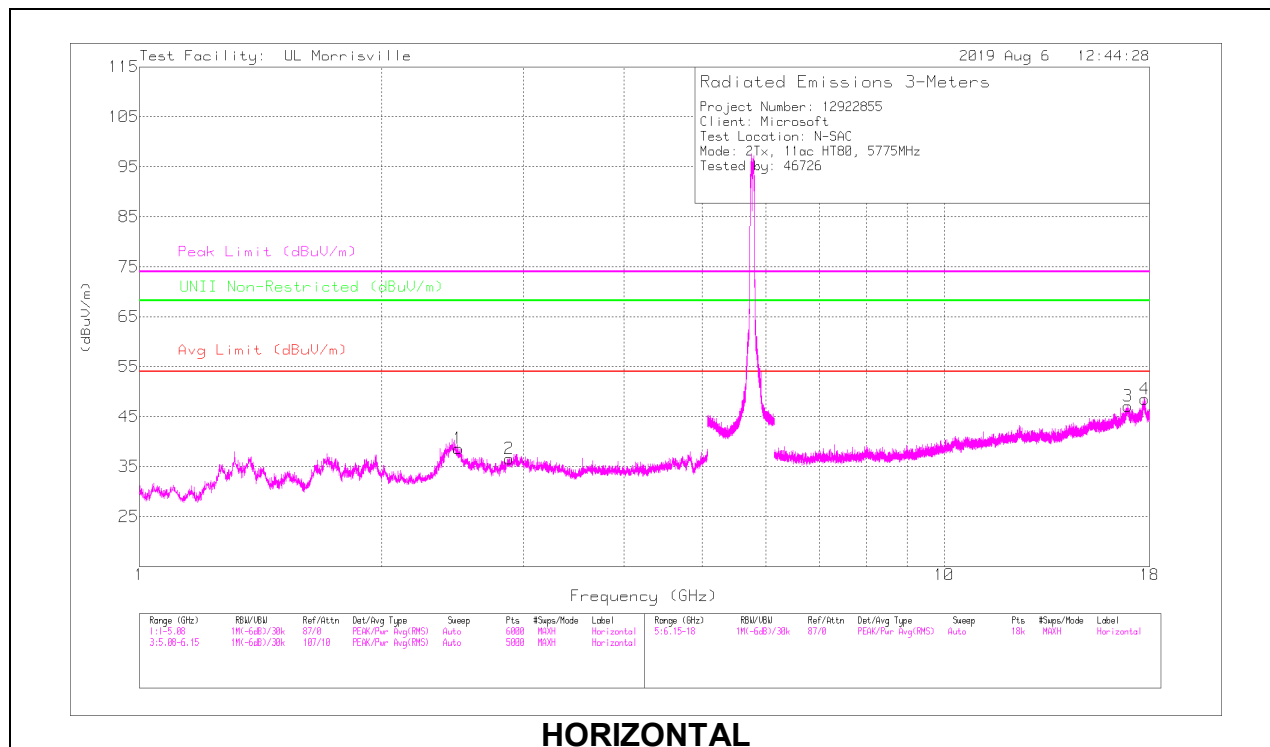


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-52.14	Pk	34.8	-23.1	11.8	-28.64	26.95	-55.59	338	219	V
2	5.93196	-56.47	Pk	34.9	-22.8	11.8	-32.57	-27	-5.57	338	219	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

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	* ** 2.48724	48.06	PK-U	32.4	-34.2	46.26	-	-	74	-27.74	-	-	286	228	H
	* ** 2.48721	36.31	ADR	32.4	-34.2	34.51	54	-19.49	-	-	-	-	286	228	H
2	* ** 2.87747	46.5	PK-U	32.6	-33.8	45.3	-	-	74	-28.7	-	-	70	146	H
	* ** 2.87751	34.32	ADR	32.6	-33.8	33.12	54	-20.88	-	-	-	-	70	146	H
5	* ** 2.49705	50.52	PK-U	32.5	-34.2	48.82	-	-	74	-25.18	-	-	30	206	V
	* ** 2.49704	38.38	ADR	32.5	-34.2	36.68	54	-17.32	-	-	-	-	30	206	V
6	* ** 2.89541	49.04	PK-U	32.6	-33.7	47.94	-	-	74	-26.06	-	-	32	219	V
	* ** 2.89541	37.54	ADR	32.6	-33.7	36.44	54	-17.56	-	-	-	-	32	219	V
4	* ** 17.75659	34.18	PK-U	41.1	-20.9	54.38	-	-	74	-19.62	-	-	50	325	H
	* ** 17.75649	21.98	ADR	41.1	-20.9	42.18	54	-11.82	-	-	-	-	50	325	H
8	* ** 17.73189	34.46	PK-U	41.1	-20.3	55.26	-	-	74	-18.74	-	-	336	208	V
	* ** 17.73178	22.49	ADR	41.1	-20.3	43.29	54	-10.71	-	-	-	-	336	208	V
7	16.90338	35.94	PK-U	41.3	-22.9	54.34	-	-	-	-	68.2	-13.86	241	204	V
3	16.91536	35.88	PK-U	41.4	-23.2	54.08	-	-	-	-	68.2	-14.12	149	197	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