



**FCC 47 CFR PART 15 SUBPART E
RSS 247 ISSUE 2
RSS GEN ISSUE 4**

CERTIFICATION TEST REPORT

FOR

MOBILE FAP 60, 10-PRINT FINGERPRINT CAPTURE DEVICE

MODEL: NOMAD 60 WIRELESS READER

**FCC ID: Q9Y7680
IC: 7944B-7680**

REPORT NUMBER: R12204358-E2

ISSUE DATE: 2018-07-11

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TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS	6
2. TEST METHODOLOGY	7
3. FACILITIES AND ACCREDITATION	7
4. CALIBRATION AND UNCERTAINTY	8
4.1. MEASURING INSTRUMENT CALIBRATION	8
4.2. SAMPLE CALCULATION	8
4.3. MEASUREMENT UNCERTAINTY	8
5. EQUIPMENT UNDER TEST	9
5.1. DESCRIPTION OF EUT	9
5.2. MODIFICATIONS	9
5.3. MAXIMUM OUTPUT POWER.....	9
5.4. DESCRIPTION OF AVAILABLE ANTENNAS	11
5.5. SOFTWARE AND FIRMWARE.....	11
5.6. WORST-CASE CONFIGURATION AND MODE.....	11
5.7. DESCRIPTION OF TEST SETUP.....	12
6. TEST AND MEASUREMENT EQUIPMENT	14
7. MEASUREMENT METHODS	17
8. ANTENNA PORT TEST RESULTS.....	18
8.1. ON TIME AND DUTY CYCLE.....	18
8.2. 802.11a MODE IN THE 5.2 GHz BAND.....	21
8.2.1. OUTPUT POWER.....	21
8.3. 802.11n HT20 MODE IN THE 5.2 GHz BAND	23
8.3.1. OUTPUT POWER.....	23
8.4. 802.11n HT40 MODE IN THE 5.2 GHz BAND	25
8.4.1. OUTPUT POWER.....	25
8.5. 802.11ac VHT80 MODE IN THE 5.2 GHz BAND	27
8.5.1. OUTPUT POWER.....	27
8.6. 802.11a MODE IN THE 5.3 GHz BAND.....	29
8.6.1. OUTPUT POWER.....	29
8.7. 802.11n HT20 MODE IN THE 5.3 GHz BAND	32
8.7.1. OUTPUT POWER.....	32
8.8. 802.11n HT40 MODE IN THE 5.3 GHz BAND	35
8.8.1. OUTPUT POWER.....	35
8.9. 802.11ac VHT80 MODE IN THE 5.3 GHz BAND	38

8.9.1.	OUTPUT POWER.....	38
8.10.	802.11a MODE IN THE 5.6 GHz BAND	40
8.10.1.	OUTPUT POWER.....	40
8.11.	802.11n HT20 MODE IN THE 5.6 GHz BAND.....	42
8.11.1.	OUTPUT POWER.....	42
8.12.	802.11n HT40 MODE IN THE 5.6 GHz BAND.....	44
8.12.1.	OUTPUT POWER.....	44
8.13.	802.11ac VHT80 MODE IN THE 5.6 GHz BAND.....	46
8.13.1.	OUTPUT POWER.....	46
8.14.	802.11a MODE IN THE 5.8 GHz BAND	48
8.14.1.	OUTPUT POWER.....	48
8.15.	802.11n HT20 MODE IN THE 5.8 GHz BAND.....	49
8.15.1.	OUTPUT POWER.....	49
8.16.	802.11n HT40 MODE IN THE 5.2 GHz BAND.....	50
8.16.1.	OUTPUT POWER.....	50
8.17.	802.11ac VHT80 MODE IN THE 5.8 GHz BAND.....	51
8.17.1.	OUTPUT POWER.....	51
9.	RADIATED TEST RESULTS.....	52
9.1.	LIMITS AND PROCEDURE.....	52
10.	TRANSMITTER ABOVE 1 GHz	53
10.1.	TX ABOVE 1 GHz 802.11a MODE IN THE 5.2 GHz BAND.....	53
10.2.	TX ABOVE 1 GHz 802.11nHT20 MODE IN THE 5.2 GHz BAND	60
10.3.	TX ABOVE 1 GHz 802.11nHT40 MODE IN THE 5.2 GHz BAND	65
10.4.	TX ABOVE 1 GHz 802.11acVHT80 MODE IN THE 5.2 GHz BAND	71
10.5.	TX ABOVE 1 GHz 802.11a MODE IN THE 5.3 GHz BAND.....	76
10.6.	TX ABOVE 1 GHz 802.11nHT20 MODE IN THE 5.3 GHz BAND	83
10.7.	TX ABOVE 1 GHz 802.11nHT40 MODE IN THE 5.3 GHz BAND	90
10.8.	TX ABOVE 1 GHz 802.11acVHT80 MODE IN THE 5.3 GHz BAND	96
10.9.	TX ABOVE 1 GHz 802.11a MODE IN THE 5.6 GHz BAND.....	101
10.10.	TX ABOVE 1 GHz 802.11nHT20 MODE IN THE 5.6 GHz BAND	108
10.11.	TX ABOVE 1 GHz 802.11nHT40 MODE IN THE 5.6 GHz BAND	115
10.12.	TX ABOVE 1 GHz 802.11acVHT80 MODE IN THE 5.6 GHz BAND	124
10.13.	TX ABOVE 1 GHz 802.11a MODE IN THE 5.8 GHz BAND.....	130
10.14.	TX ABOVE 1 GHz 802.11nHT20 MODE IN THE 5.8 GHz BAND	137
10.15.	TX ABOVE 1 GHz 802.11nHT40 MODE IN THE 5.8 GHz BAND	144
10.16.	TX ABOVE 1 GHz 802.11acVHT80 MODE IN THE 5.8 GHz BAND	150
10.17.	RADIATED WORST-CASE	155

11. AC POWER LINE CONDUCTED EMISSIONS	160
12. SETUP PHOTOS	163
END OF REPORT	170

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Cross Match Technologies, Inc.
3950 RCA Blvd, Suite 5001
Palm Beach Gardens, FL 33410, USA

EUT DESCRIPTION: Mobile FAP 60, 10-print fingerprint capture device

MODEL: Nomad 60 Wireless Reader

SERIAL NUMBER: ENB006, ENB013

DATE TESTED: 2018-04-19 to 2018-06-11

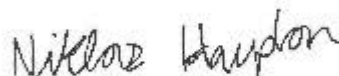
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart E	Complies
RSS 247 ISSUE 2	Complies
RSS GEN ISSUE 4	Complies

UL LLC tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL LLC based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. 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:

Prepared By:



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UL – Consumer Technology Division

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.10-2013, KDB558074 D01 v04, RSS-GEN Issue 4, RSS-247 Issue 2.

3. FACILITIES AND ACCREDITATION

Research Triangle Park, NC 27709, USA and 2800 Suite B, Perimeter Park Drive, Morrisville, NC 27560.

12 Laboratory Dr., RTP, NC 27709
☐ Chamber A
☐ Chamber C

2800 Suite B Perimeter Park Dr., Morrisville, NC 27560
☒ Chamber NORTH
☒ Chamber SOUTH

The onsite chambers are covered under ISED Canada company address code 2180C with site numbers 2180C -1 through 2180C-4, respectively.

UL LLC (RTP) is accredited by NVLAP, Laboratory Code 200246-0. The full scope of accreditation can be viewed at <http://www.nist.gov/nvlap/>

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

Where relevant, the following sample calculation is provided:

$$\begin{aligned}\text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamplifier Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m}\end{aligned}$$

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY	REQUIRED BY STANDARD
Occupied Channel Bandwidth	2.00%	±5 %
RF output power, conducted	1.3 dB	±1,5 dB
Power Spectral Density, conducted	2.47 dB	±3 dB
Unwanted Emissions, conducted	2.94 dB	±3 dB
All emissions, radiated	5.36 dB	±6 dB
Temperature	2.26 °C	±3 °C
Supply voltages	2.40%	±3 %
Time	3.39%	±5 %

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

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a mobile fap 60, 10-print fingerprint capture device that contains 802.11 a/ac/b/g/n and Bluetooth radios.

The Nomad 60 product uses the Silex SDMAC-2831S Bluetooth/WiFi module that has been certified by the FCC (FCC ID: N6C-SDMAC). Antenna port conducted emisisions tests except for power have been leveraged from from the Silex SDMAC-2831S Bluetooth/WiFi module in test report number: 11182619H-C-R1.

5.2. MODIFICATIONS

Modifications were made to address compliance issues with 30 to 1000 MHz worst case radiated emissions testing. AC power line conducted emissions and 30 to 1000 MHz worst case radiated emissions testing were performed after the modifications listed below were made:

A shield was added over microcontroller, associated memory and power supplies. A bypass capacitor was added to USB flex assembly near USB connector. A TDK ZCAT 1730-0730 ferrite was added to USB-C-to-USB-C cable (refer to set up photos section).

5.3. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
5180 - 5240	802.11a	10.6	11.48
5180 - 5240	802.11n HT20	9.64	9.20
5190 - 5230	802.11n HT40	10.32	10.76
5210	802.11ac VHT80	8.1	6.46
5260 - 5320	802.11a	10.43	11.04
5260 - 5320	802.11n HT20	11	12.59
5270 - 5310	802.11n HT40	10.14	10.33
5290	802.11ac VHT80	8.24	6.67
5500 - 5700	802.11a	9.1	8.13
5500 - 5700	802.11n HT20	8.75	7.50
5510 - 5670	802.11n HT40	9.2	8.32
5530 - 5610	802.11ac VHT80	9.05	8.04
5745 - 5825	802.11a	9.95	9.89
5745 - 5825	802.11n HT20	9.7	9.33
5755 - 5795	802.11n HT40	9.1	8.13
5775	802.11ac VHT80	9.95	9.89

5.4. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an SMD monopole antenna with a maximum gain of 4.5dBi.

5.5. SOFTWARE AND FIRMWARE

The firmware installed in the EUT was MfgTools-Nomad4_WIFI_Nightly_Image_04_02_2018.eng.

The EUT driver installed in the host support equipment was Nomad60 version 1.0.0.0.

The test utility software used during testing was QCA Radio Control Toolkit (QRCT) version 3.0.156.0.

5.6. WORST-CASE CONFIGURATION AND MODE

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

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

802.11a mode: 24 Mbps
802.11n HT20mode: MCS0
802.11n HT40mode: MCS0
802.11ac 80 mode: MCS0

The Nomad 60 Wireless Reader contains Silex Technologies Inc., model: SX-SDMAC (FCC ID: N6C-SDMAC, IC: 4908A-SDMAC). Cross Match Technoliges Inc. leverages antenna port conducted testing from the SX-SDMAC. Output power data is included due to lower power being declared then the SX-SDMAC.

5.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List			
Description	Manufacturer	Model	Serial Number
Laptop	HP	ProBook 4540s	CM000447
AC Adapter Type-C	PHIHONG	AQ15A-050A	P170900909A1

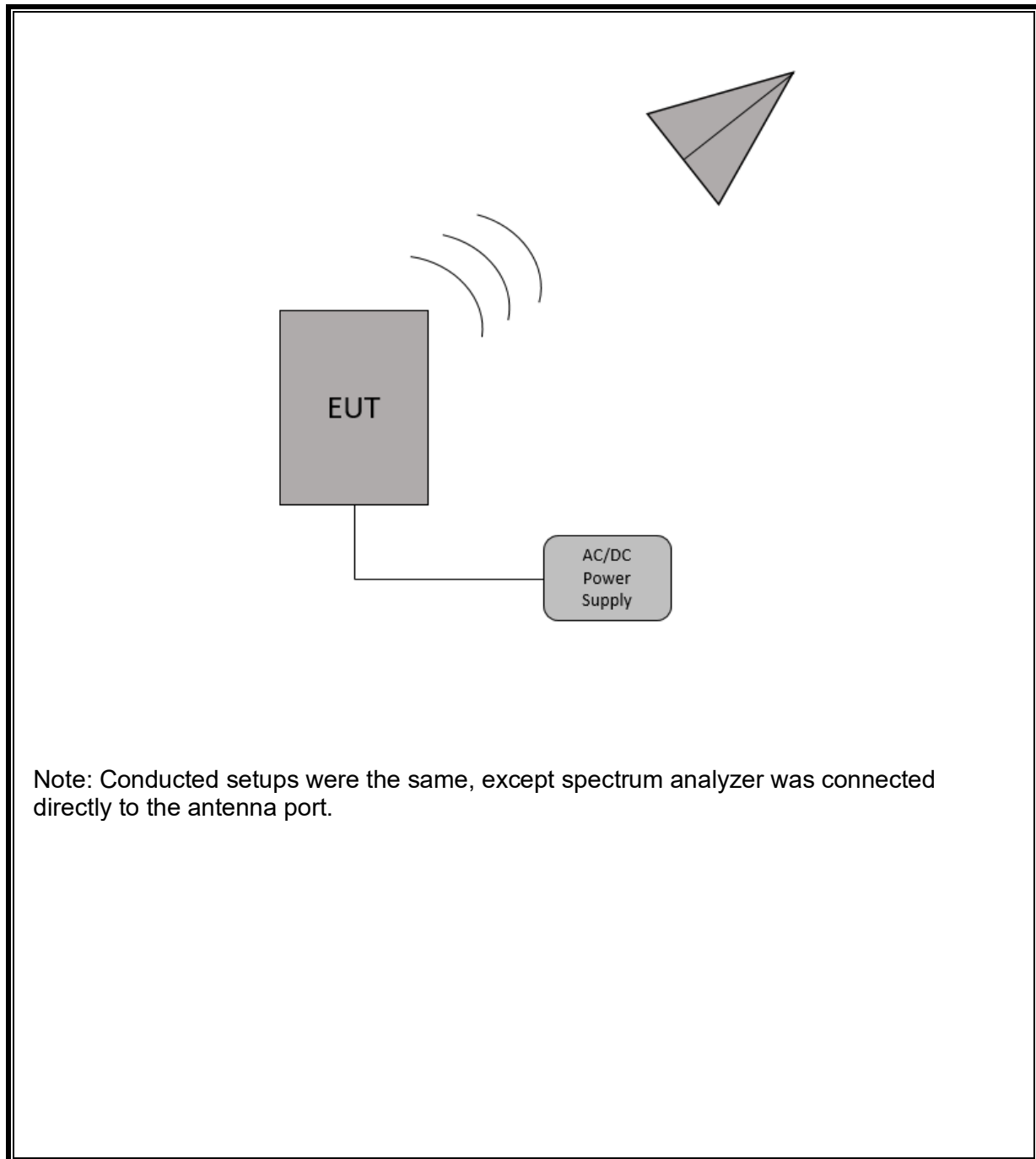
I/O CABLES

I/O Cable List						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	USB-C	1	24-pin USB-C	USB-C	<3m	None

TEST SETUP

The EUT was installed in a typical configuration. The customer provided test software to exercise the EUTs during test. Refer to the following diagram.

SETUP DIAGRAM FOR TESTS



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)

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
	0.009-30MHz	(Loop Ant.)			
AT0079 (In service 02/04/2018)	Active Loop Antenna	ETS-Lindgren	6502	2018-01-02	2019-01-02
	30-1000 MHz				
AT0073	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2017-07-18	2018-07-31
	1-18 GHz				
AT0067	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2018-03-26	2019-03-26
	Gain-Loss Chains				
N-SAC01	Gain-loss string: 0.009-30MHz	Various	Various	2017-09-15	2018-09-15
N-SAC02	Gain-loss string: 30-1000MHz	Various	Various	2017-06-11	2018-06-11
N-SAC03	Gain-loss string: 1-18GHz	Various	Various	2018-03-23	2019-03-23
	Receiver & Software				
SA0027	Spectrum Analyzer	Agilent	N9030A	2018-04-04	2019-04-04
SA00?? (18-40GHz RSE)	Spectrum Analyzer	Agilent	N9030A		
SOFTEMI	EMI Software	UL	Version 9.5	NA	NA
	Additional Equipment used				
s/n 161024690	Environmental Meter	Fisher Scientific	15-077-963	2016-12-21	2018-12-21

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

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
	1-18 GHz				
AT0078	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2017-09-26	2018-09-26
	18-40 GHz				
AT0076	Horn Antenna, 18-26.5GHz	ARA	MWH-1826/B	2017-10-10	2018-10-10
AT0077	Horn Antenna, 26-40GHz	ARA	MWH-2640/B	2017-10-10	2018-10-10
	Gain-Loss Chains				
S-SAC03	Gain-loss string: 1-18GHz	Various	Various	2018-03-20	2019-03-20
S-SAC04	Gain-loss string: 18-40GHz	Various	Various	2018-04-02	2019-04-02
	Receiver & Software				
SA0026	Spectrum Analyzer	Agilent	N9030A	2018-03-20	2019-03-20
SOFTEMI	EMI Software	UL	Version 9.5	NA	NA
	Additional Equipment used				
s/n 161024887	Environmental Meter	Fisher Scientific	15-077-963	2016-12-23	2018-12-23

Test Equipment Used – Conducted Emissions Test Equipment (Morrisville – CON2)

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
SA0020	Spectrum Analyser	Agilent	E4446A	2017-11-06	2018-11-06
PWM001	Power Meter	Keysight	N1911A	07/17/2017	07/17/2018
PWS001	Power Sensor	Keysight	N1921A	12/18/2017	12/18/2018
SN 161016511	Environmental Meter	Fisher Scientific	15-077-963	2016-12-21	2018-12-21

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

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
CBL076	Coax cable, RG223, N-male to BNC-male, 20-ft.	Pasternack	PE3476-240	2017-06-12	2018-06-12
s/n 160938893	Environmental Meter	Fisher Scientific	14-650-118	2016-11-02	2018-11-02
LISN003	LISN, 50-ohm/50-uH, 2-conductor, 25A	Fischer Custom Com.	FCC-LISN-50-25-2-01-550V	2017-08-22	2018-08-22
PRE0101521 (75141)	EMI Test Receiver 9kHz-7GHz	Rohde & Schwarz	ESCI 7	2017-08-23	2018-08-23
TL001	Transient Limiter, 0.009-30MHz	Com-Power	LIT-930A	2017-06-12	2018-06-12
PS215	AC Power Source	Elgar	CW2501M (s/n 1523A02397)	NA	NA
SOFTEMI	EMI Software	UL	Version 9.5	NA	NA

7. MEASUREMENT METHODS

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

26 dB Emission BW: KDB 789033 D02 v02r01, Section C.

99% Occupied BW: KDB 789033 D02 v02r01, Section D.

Conducted Output Power: KDB 789033 D02 v01r01, Section E.3.b (Method PM-G).

Power Spectral Density: KDB 789033 D02 v02r01, Section F.

Unwanted emissions in restricted bands: KDB 789033 D02 v02r01, Sections G.1, G.3, G.4, G.5, and G.6.

Unwanted emissions in non-restricted bands: KDB 789033 D02 v02r01, Sections G.1, G.3, G.4, 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

Line Conducted Emissions: ANSI C63.10:2013 Section 6.2

8. ANTENNA PORT TEST RESULTS

8.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

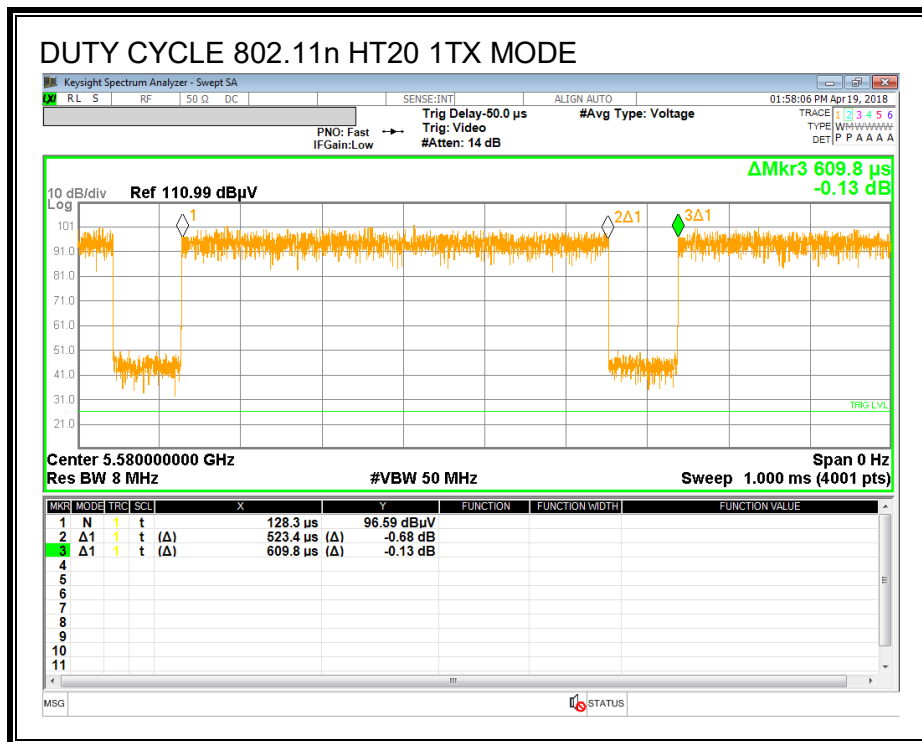
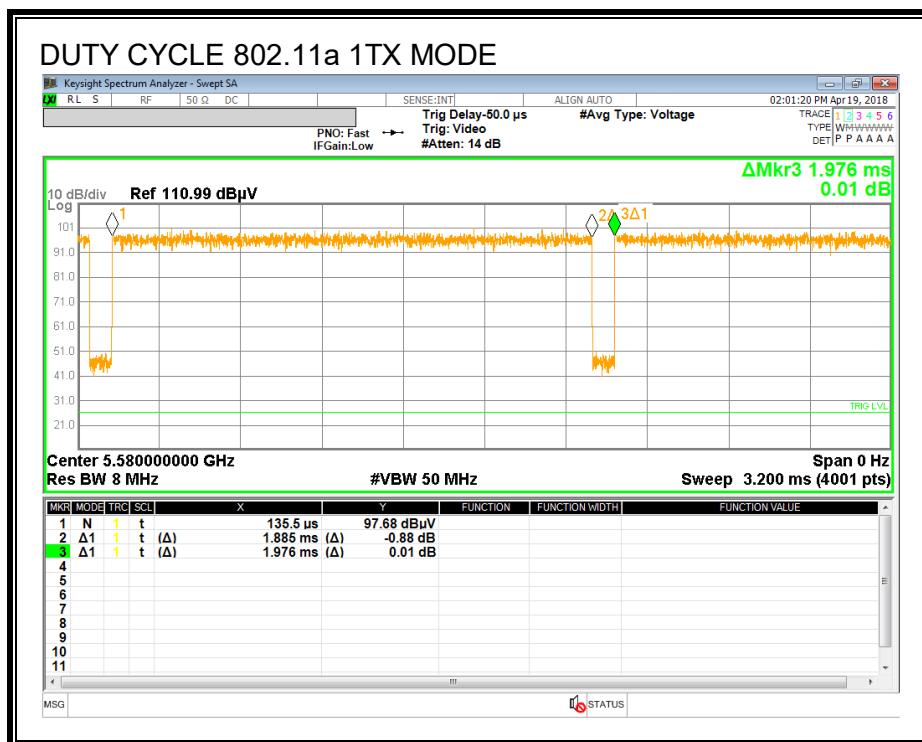
PROCEDURE

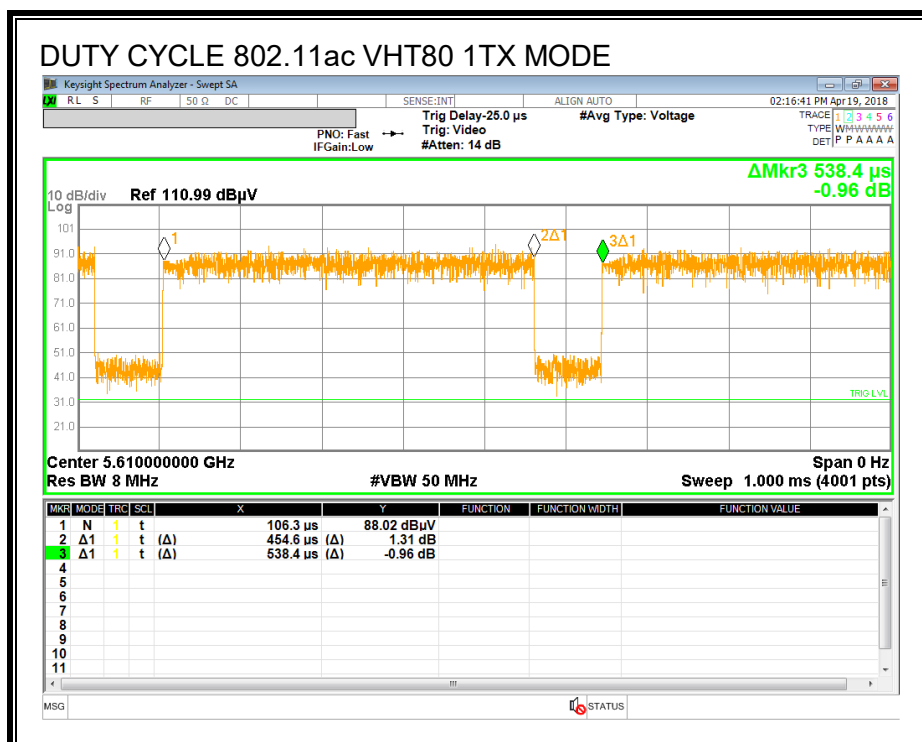
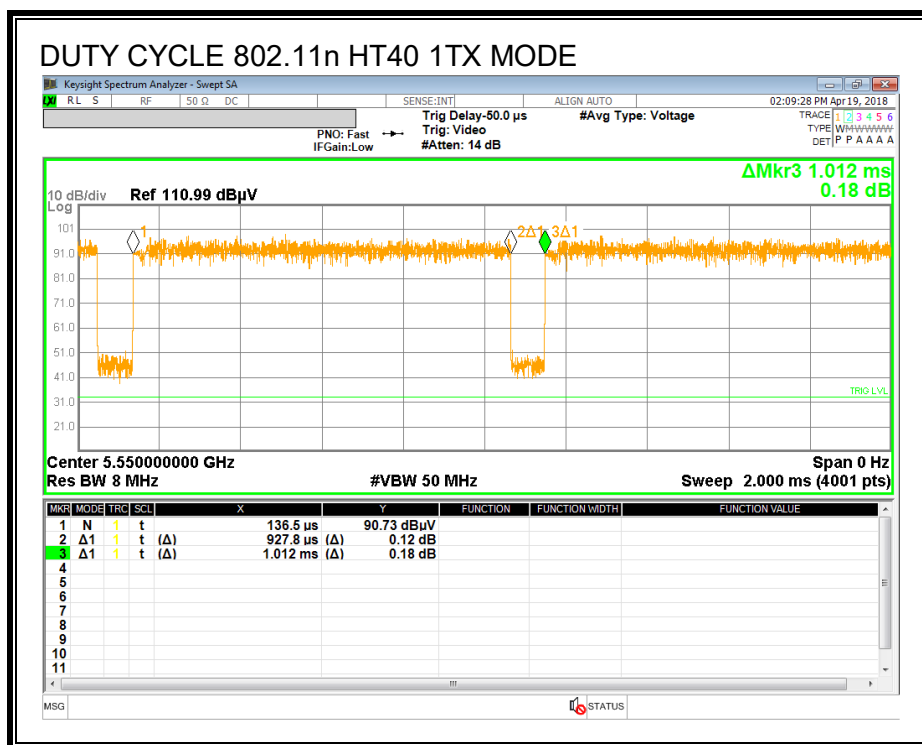
KDB 789033 Zero-Span Spectrum Analyzer Method.

ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
802.11a 1TX	1.885	1.976	0.954	95.39%	0.20	0.531
802.11n HT20 1TX	0.523	0.610	0.858	85.83%	0.66	1.911
802.11n HT40 1TX	0.928	1.012	0.917	91.68%	0.38	1.078
802.11ac VHT80 1TX	0.4546	0.5284	0.860	86.03%	0.65	2.200

DUTY CYCLE PLOTS





8.2. 802.11a MODE IN THE 5.2 GHz BAND

8.2.1. OUTPUT POWER

LIMITS

FCC §15.407 (a) (1)

(iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

ISED RSS 247 Issue 2, Clause 6.2.1.1

For other devices, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS (FCC)

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Power Limit (dBm)
Low	5180	4.50	24.00
Mid	5200	4.50	24.00
High	5240	4.50	24.00

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	9.43	9.43	24.00	-14.57
Mid	5200	9.67	9.67	24.00	-14.33
High	5240	10.60	10.60	24.00	-13.40

RESULTS (ISED)

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Ant Gain (dBi)	Occupied 99% BW (MHz)	EIRP Limit (dBm)
Low	5180	4.50	17.04	22.31
Mid	5200	4.50	17.08	22.33
High	5240	4.50	17.07	22.32

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Cond Power (dBm)	Total Corr'd EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
Low	5180	9.43	13.93	22.31	-8.38
Mid	5200	9.67	14.17	22.33	-8.16
High	5240	10.60	15.10	22.32	-7.22

Note: Power was performed as gated average.

TEST INFORMATION

Date: 2018-05-01

Tester: 46726/40882

8.3. 802.11n HT20 MODE IN THE 5.2 GHz BAND

8.3.1. OUTPUT POWER

LIMITS

FCC §15.407 (a) (1)

(iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

ISED RSS 247 Issue 2, Clause 6.2.1.1

For other devices, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS (FCC)

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Power Limit (dBm)
Low	5180	4.50	24.00
Mid	5200	4.50	24.00
High	5240	4.50	24.00

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	9.64	9.64	24.00	-14.36
Mid	5200	8.75	8.75	24.00	-15.25
High	5240	8.85	8.85	24.00	-15.15

RESULTS (ISED)

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Ant Gain (dBi)	Occupied 99% BW (MHz)	EIRP Limit (dBm)
Low	5180	4.50	17.50	22.43
Mid	5200	4.50	17.48	22.43
High	5240	4.50	17.49	22.43

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Cond Power (dBm)	Total Corr'd EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
Low	5180	9.64	14.14	22.43	-8.29
Mid	5200	8.75	13.25	22.43	-9.18
High	5240	8.85	13.35	22.43	-9.08

Note: Power was performed as gated average.

TEST INFORMATION

Date: 2018-05-01
Tester: 46726/40882

8.4. 802.11n HT40 MODE IN THE 5.2 GHz BAND

8.4.1. OUTPUT POWER

LIMITS

FCC §15.407 (a) (1)

(iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

ISED RSS 247 Issue 2, Clause 6.2.1.1

For other devices, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS (FCC)

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Power Limit (dBm)
Low	5190	4.50	24.00
High	5230	4.50	24.00

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	7.51	7.51	24.00	-16.49
High	5230	10.32	10.32	24.00	-13.68

RESULTS (ISED)

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Ant Gain (dBi)	Occupied 99% BW (MHz)	EIRP Limit (dBm)
Low	5190	4.50	35.88	23.00
High	5230	4.50	35.88	23.00

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Cond Power (dBm)	Total Corr'd EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
Low	5190	7.51	12.01	23.00	-10.99
High	5230	10.32	14.82	23.00	-8.18

Note: Power was performed as gated average.

TEST INFORMATION

Date: 2018-05-01

Tester: 46726/40882

8.5. 802.11ac VHT80 MODE IN THE 5.2 GHz BAND

8.5.1. OUTPUT POWER

LIMITS

FCC §15.407 (a) (1)

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

ISED RSS 247 Issue 2, Clause 6.2.1.1

For other devices, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS (FCC)

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Power Limit (dBm)
Mid	5210	4.50	24.00

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5210	8.10	8.10	24.00	-15.90

RESULTS (ISED)

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Ant Gain (dBi)	Occupied 99% BW (MHz)	EIRP Limit (dBm)	EIRP PSD Limit (dBm)
Mid	5210	4.50	75.07	23.00	10.00

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Cond Power (dBm)	Total Corr'd EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
Mid	5210	8.10	12.60	23.00	-10.40

Note: Power was performed as gated average.

TEST INFORMATION

Date: 2018-05-01
Tester: 46726/40882

8.6. 802.11a MODE IN THE 5.3 GHz BAND

8.6.1. OUTPUT POWER

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26-dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

ISED RSS-247 Issue 2 Section 6.2.2.1

Devices, other than devices installed in vehicles, shall comply with the following:

- a) The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log 10B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band;
- b) The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log 10B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain

RESULTS (FCC)

Bandwidth, Antenna Gain and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Power Limit (dBm)
Low	5260	21.71	4.50	24.00
Mid	5300	22.17	4.50	24.00
High	5320	21.85	4.50	24.00

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	10.28	10.28	24.00	-13.72
Mid	5300	10.43	10.43	24.00	-13.57
High	5320	8.76	8.76	24.00	-15.24

RESULTS (ISED CONDUCTED POWER)

Bandwidth and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Power Limit (dBm)
Low	5260	17.04	23.31
Mid	5300	17.00	23.31
High	5320	17.04	23.32

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	10.28	10.28	23.31	-13.03
Mid	5300	10.43	10.43	23.31	-12.88
High	5320	8.76	8.76	23.32	-14.56

RESULTS (ISED EIRP)

Bandwidth, Antenna Gain and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Ant Gain (dBi)	EIRP Limit (dBm)
Low	5260	17.04	4.50	29.31
Mid	5300	17.00	4.50	29.31
High	5320	17.04	4.50	29.32

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
Low	5260	10.28	14.78	29.31	-14.53
Mid	5300	10.43	14.93	29.31	-14.38
High	5320	8.76	13.26	29.32	-16.06

Note: Power was performed as gated average.

TEST INFORMATION

Date: 2018-05-01
Tester: 46726/40882

8.7. 802.11n HT20 MODE IN THE 5.3 GHz BAND

8.7.1. OUTPUT POWER

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26-dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

ISED RSS-247 Issue 2 Section 6.2.2.1

Devices, other than devices installed in vehicles, shall comply with the following:

- a) The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log 10B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band;
- b) The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log 10B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain

RESULTS (FCC)

Bandwidth, Antenna Gain and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Power Limit (dBm)
Low	5260	19.91	4.50	23.99
Mid	5300	19.70	4.50	23.94
High	5320	19.57	4.50	23.92

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	11.00	11.00	23.99	-12.99
Mid	5300	10.93	10.93	23.94	-13.01
High	5320	8.63	8.63	23.92	-15.29

RESULTS (ISED CONDUCTED POWER)

Bandwidth and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Power Limit (dBm)
Low	5260	17.46	23.42
Mid	5300	17.48	23.43
High	5320	17.49	23.43

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	11.00	11.00	23.42	-12.42
Mid	5300	10.93	10.93	23.43	-12.50
High	5320	8.63	8.63	23.43	-14.80

RESULTS (ISED EIRP)

Bandwidth, Antenna Gain and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Ant Gain (dBi)	EIRP Limit (dBm)
Low	5260	17.46	4.50	29.42
Mid	5300	17.48	4.50	29.43
High	5320	17.49	4.50	29.43

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
Low	5260	11.00	15.50	29.42	-13.92
Mid	5300	10.93	15.43	29.43	-14.00
High	5320	8.63	13.13	29.43	-16.30

Note: Power was performed as gated average.

TEST INFORMATION

Date: 2018-05-01
Tester: 46726/40882

8.8. 802.11n HT40 MODE IN THE 5.3 GHz BAND

8.8.1. OUTPUT POWER

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26-dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

ISED RSS-247 Issue 2 Section 6.2.2.1

Devices, other than devices installed in vehicles, shall comply with the following:

- a) The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log 10B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band;
- b) The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log 10B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)
Low	5270	40.09	4.50	24.00
High	5310	40.53	4.50	24.00

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5270	10.14	10.14	24.00	-13.86
High	5310	8.69	8.69	24.00	-15.31

RESULTS (ISED CONDUCTED POWER AND PSD)

Bandwidth and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Power Limit (dBm)
Low	5270	35.87	24.00
High	5310	35.89	24.00

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5270	10.14	10.14	24.00	-13.86
High	5310	8.69	8.69	24.00	-15.31

RESULTS (ISED EIRP)

Bandwidth, Antenna Gain and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Ant Gain (dBi)	EIRP Limit (dBm)
Low	5270	35.87	4.50	30.00
High	5310	35.89	4.50	30.00

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
Low	5270	10.14	14.64	30.00	-15.36
High	5310	8.69	13.19	30.00	-16.81

Note: Power was performed as gated average.

TEST INFORMATION

Date: 2018-05-01
Tester: 46726/40882

8.9. 802.11ac VHT80 MODE IN THE 5.3 GHz BAND

8.9.1. OUTPUT POWER

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26-dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

ISED RSS-247 Issue 2 Section 6.2.2.1

Devices, other than devices installed in vehicles, shall comply with the following:

- a) The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log 10B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band;
- b) The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log 10B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)
Mid	5290	82.26	4.50	24.00

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5290	8.24	8.24	24.00	-15.76

RESULTS (ISED CONDUCTED POWER)

Bandwidth and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Power Limit (dBm)
Mid	5290	75.02	24.00

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5290	8.24	8.24	24.00	-15.76

RESULTS (ISED EIRP)

Bandwidth, Antenna Gain and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Ant Gain (dBi)	EIRP Limit (dBm)
Mid	5290	75.02	4.50	30.00

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
Mid	5290	8.24	12.74	30.00	-17.26

Note: Power was performed as gated average.

TEST INFORMATION

Date: 2018-05-01
Tester: 46726/40882

8.10. 802.11a MODE IN THE 5.6 GHz BAND

8.10.1. OUTPUT POWER

LIMITS

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26-dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RSS-247 ISSUE 2 SECTION 6.2.3.1

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band. The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)
Low	5500	20.50	4.50	24.00
Mid	5580	21.80	4.50	24.00
High	5700	20.90	4.50	24.00

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	7.23	7.23	24.00	-16.77
Mid	5580	7.32	7.32	24.00	-16.68
High	5700	9.10	9.10	24.00	-14.90

RESULTS (ISED Conducted Power)

Bandwidth and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Power Limit (dBm)
Low	5500	17.08	23.32
Mid	5580	17.06	23.32
High	5700	17.06	23.32

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	7.23	7.23	23.32	-16.09
Mid	5580	7.32	7.32	23.32	-16.00
High	5700	9.10	9.10	23.32	-14.22

RESULTS (ISED EIRP)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Ant. Gain (dBi)	EIRP Limit (dBm)
Low	5500	17.08	4.50	29.32
Mid	5580	17.06	4.50	29.32
High	5700	17.06	4.50	29.32

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
Low	5500	7.23	11.73	29.32	-17.59
Mid	5580	7.32	11.82	29.32	-17.50
High	5700	9.10	13.60	29.32	-15.72

Note: Power was performed as gated average.

TEST INFORMATION

Date: 2018-05-01
Tester: 46726/40882

8.11. 802.11n HT20 MODE IN THE 5.6 GHz BAND

8.11.1. OUTPUT POWER

LIMITS

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26-dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RSS-247 ISSUE 2 SECTION 6.2.3.1

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band. The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)
Low	5500	19.90	4.50	23.99
Mid	5580	19.52	4.50	23.90
High	5700	19.43	4.50	23.89

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	7.16	7.16	23.99	-16.83
Mid	5580	7.36	7.36	23.90	-16.54
High	5700	8.75	8.75	23.89	-15.14

RESULTS (ISED Conducted Power)

Bandwidth and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Power Limit (dBm)
Low	5500	17.49	23.43
Mid	5580	17.51	23.43
High	5700	17.51	23.43

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	7.16	7.16	23.43	-16.27
Mid	5580	7.36	7.36	23.43	-16.07
High	5700	8.75	8.75	23.43	-14.68

RESULTS (ISED EIRP)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Ant. Gain (dBi)	EIRP Limit (dBm)
Low	5500	17.49	4.50	29.43
Mid	5580	17.51	4.50	29.43
High	5700	17.51	4.50	29.43

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
Low	5500	7.16	11.66	29.43	-17.77
Mid	5580	7.36	11.86	29.43	-17.57
High	5700	8.75	13.25	29.43	-16.18

Note: Power was performed as gated average.

TEST INFORMATION

Date: 2018-05-01
Tester: 46726/40882

8.12. 802.11n HT40 MODE IN THE 5.6 GHz BAND

8.12.1. OUTPUT POWER

LIMITS

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26-dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RSS-247 ISSUE 2 SECTION 6.2.3.1

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band. The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)
Low	5510	42.97	4.50	24.00
Mid	5550	39.98	4.50	24.00
High	5670	41.80	4.50	24.00

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5510	6.91	6.91	24.00	-17.09
Mid	5550	8.56	8.56	24.00	-15.44
High	5670	9.20	9.20	24.00	-14.80

RESULTS (ISED Conducted Power)

Bandwidth and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Power Limit (dBm)
Low	5510	35.89	24.00
Mid	5550	35.94	24.00
High	5670	35.92	24.00

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5510	6.91	6.91	24.00	-17.09
Mid	5550	8.56	8.56	24.00	-15.44
High	5670	9.20	9.20	24.00	-14.80

RESULTS (ISED EIRP)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Ant. Gain (dBi)	EIRP Limit (dBm)
Low	5510	35.89	4.50	30.00
Mid	5550	35.94	4.50	30.00
High	5670	35.92	4.50	30.00

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
Low	5510	6.91	11.41	30.00	-18.59
Mid	5550	8.56	13.06	30.00	-16.94
High	5670	9.20	13.70	30.00	-16.30

Note: Power was performed as gated average.

TEST INFORMATION

Date: 2018-05-01
Tester: 46726/40882

8.13. 802.11ac VHT80 MODE IN THE 5.6 GHz BAND

8.13.1. OUTPUT POWER

LIMITS

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26-dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RSS-247 ISSUE 2 SECTION 6.2.3.1

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band. The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)
Low	5530	82.02	4.50	24.00
Mid	5610	81.72	4.50	24.00

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	7.94	7.94	24.00	-16.06
Mid	5610	9.05	9.05	24.00	-14.95

RESULTS (ISED Conducted Power)

Bandwidth and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Power Limit (dBm)
Low	5530	75.16	24.00

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	7.94	7.94	24.00	-16.06

RESULTS (ISED EIRP)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Ant. Gain (dBi)	EIRP Limit (dBm)
Low	5530	75.16	4.50	30.00

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
Low	5530	7.94	12.44	30.00	-17.56

Note: Power was performed as gated average.

TEST INFORMATION

Date: 2018-05-01
Tester: 46726/40882

8.14. 802.11a MODE IN THE 5.8 GHz BAND

8.14.1. OUTPUT POWER

LIMITS

FCC §15.407 (a) (3)

RSS-247 Issue 2 Section 6.2.4.1

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Power Limit (dBm)
Low	5745	4.50	30.00
Mid	5785	4.50	30.00
High	5825	4.50	30.00

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	9.10	9.10	30.00	-20.90
Mid	5785	9.95	9.95	30.00	-20.05
High	5825	9.57	9.57	30.00	-20.43

Note: Power was performed as gated average.

TEST INFORMATION

Date: 2018-05-01

Tester: 46726/40882

8.15. 802.11n HT20 MODE IN THE 5.8 GHz BAND

8.15.1. OUTPUT POWER

LIMITS

FCC §15.407 (a) (3)

RSS-247 Issue 2 Section 6.2.4.1

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Power Limit (dBm)
Low	5745	4.50	30.00
Mid	5785	4.50	30.00
High	5825	4.50	30.00

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	9.39	9.39	30.00	-20.61
Mid	5785	9.70	9.70	30.00	-20.30
High	5825	9.57	9.57	30.00	-20.43

Note: Power was performed as gated average.

TEST INFORMATION

Date: 2018-05-01

Tester: 46726/40882

8.16. 802.11n HT40 MODE IN THE 5.2 GHz BAND

8.16.1. OUTPUT POWER

LIMITS

FCC §15.407 (a) (3)

RSS-247 Issue 2 Section 6.2.4.1

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)
Low	5755	4.50	30.00
High	5795	4.50	30.00

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5755	8.96	8.96	30.00	-21.04
High	5795	9.10	9.10	30.00	-20.90

Note: Power was performed as gated average.

TEST INFORMATION

Date: 2018-05-01

Tester: 46726/40882

8.17. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

8.17.1. OUTPUT POWER

LIMITS

FCC §15.407 (a) (3)

RSS-247 Issue 2 Section 6.2.4.1

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)
Mid	5775	4.50	30.00

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5775	9.95	9.95	30.00	-20.05

Note: Power was performed as gated average.

TEST INFORMATION

Date: 2018-05-01

Tester: 46726/40882

9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

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)

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1GHz measurements and 1.5 m above the ground plane for above 1GHz measurements. The antenna to EUT distance is 3 meters.

For measurements below 1 GHz the resolution bandwidth is set to 120 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements for the 30-1000 MHz range, 9 kHz for peak detection measurements or 9 kHz for quasi-peak detection measurements for the 0.15-30 MHz range and 200 Hz for peak detection measurements or 200 Hz for quasi-peak detection measurements for the 9 to 150 kHz range. Peak detection is used unless otherwise noted as quasi-peak.

For peak measurements above 1 GHz, the resolution bandwidth is set to 1 MHz and the video bandwidth is set to 3 MHz. For average measurements above 1GHz, the resolution bandwidth and video bandwidth are set as described in ANSI C63.10:2013 for the applicable measurement. The particular averaging method used for this test program was by RMS Averaging.

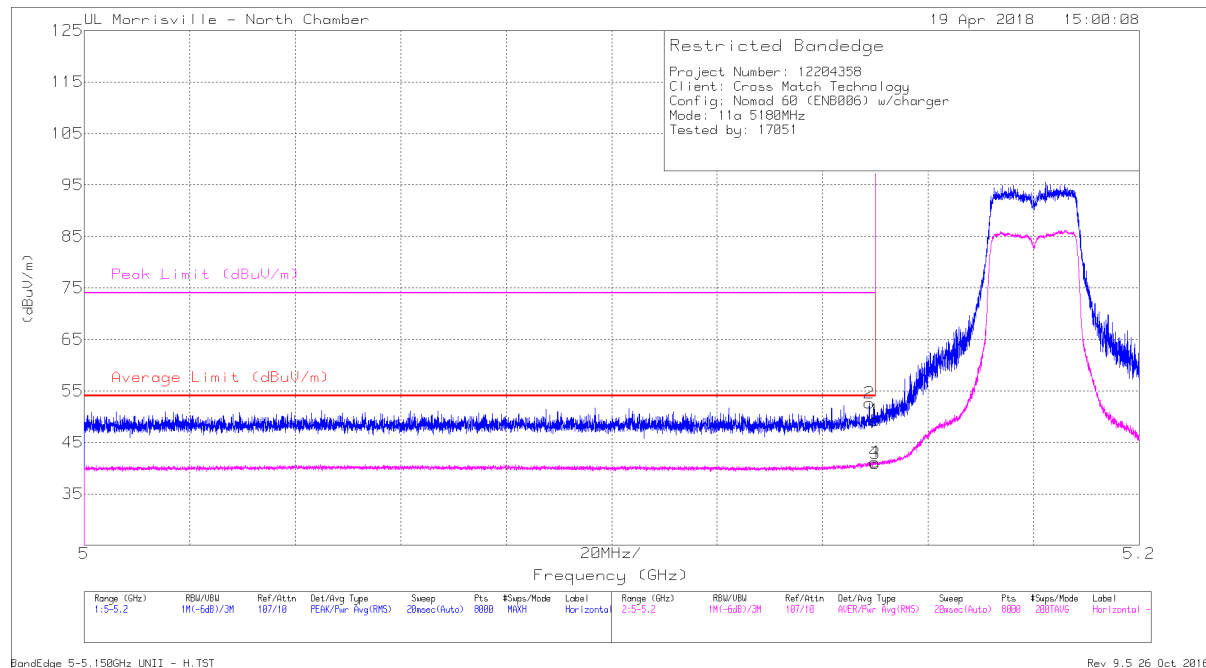
The spectrum from 1 to 18 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band. For below 1GHz and above 18 GHz, the worst-case channel was measured.

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.

10. TRANSMITTER ABOVE 1 GHz

10.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



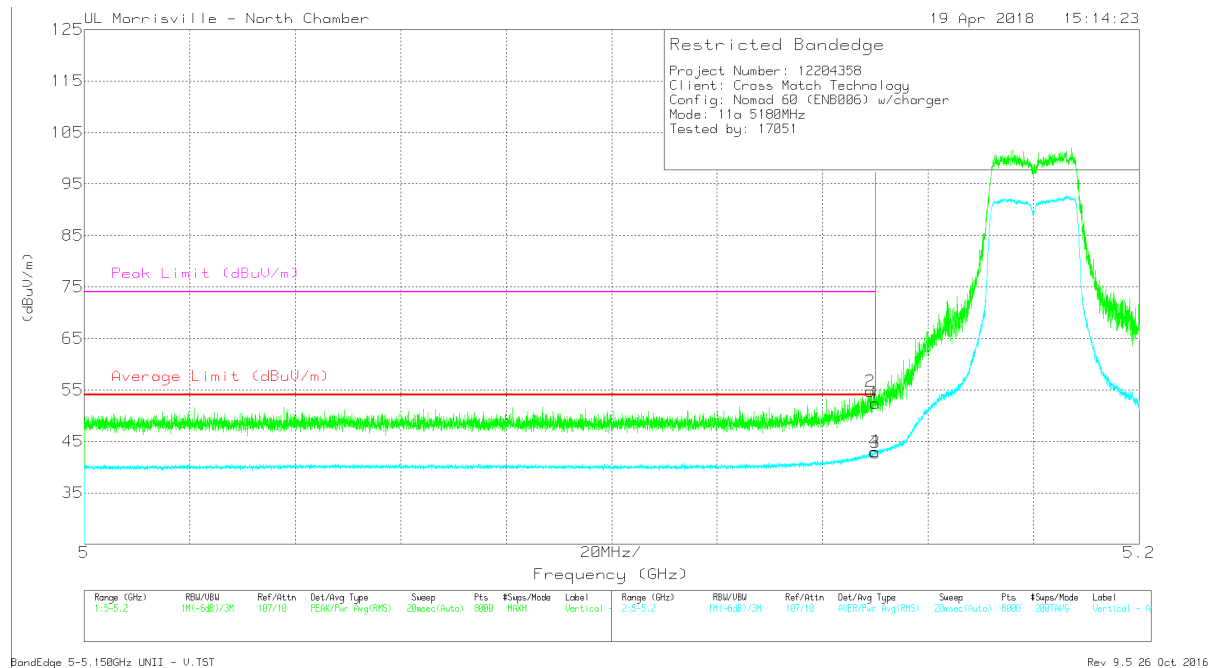
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	37.81	Pk	34.2	-22.7	0	49.31	-	-	74	-24.69	221	149	H
2	* 5.149	41.22	Pk	34.2	-22.8	0	52.62	-	-	74	-21.38	221	149	H
3	* 5.15	29.21	RMS	34.2	-22.7	.2	40.91	54	-13.09	-	-	221	149	H
4	* 5.15	29.47	RMS	34.2	-22.7	.2	41.17	54	-12.83	-	-	221	149	H

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

Pk - Peak detector

RMS - RMS detection

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



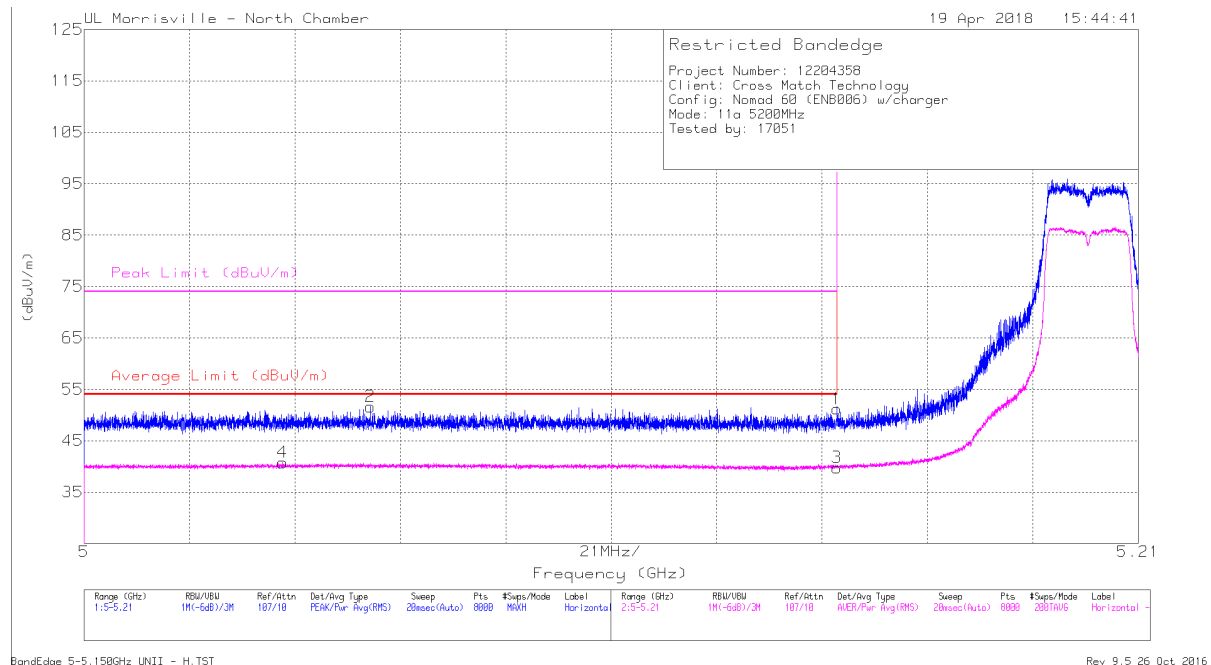
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	40.93	Pk	34.2	-22.7	0	52.43	-	-	74	-21.57	159	190	V
2	* 5.149	43.3	Pk	34.2	-22.8	0	54.7	-	-	74	-19.3	159	190	V
3	* 5.15	31.13	RMS	34.2	-22.7	.2	42.83	54	-11.17	-	-	159	190	V
4	* 5.15	31.32	RMS	34.2	-22.7	.2	43.02	54	-10.98	-	-	159	190	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



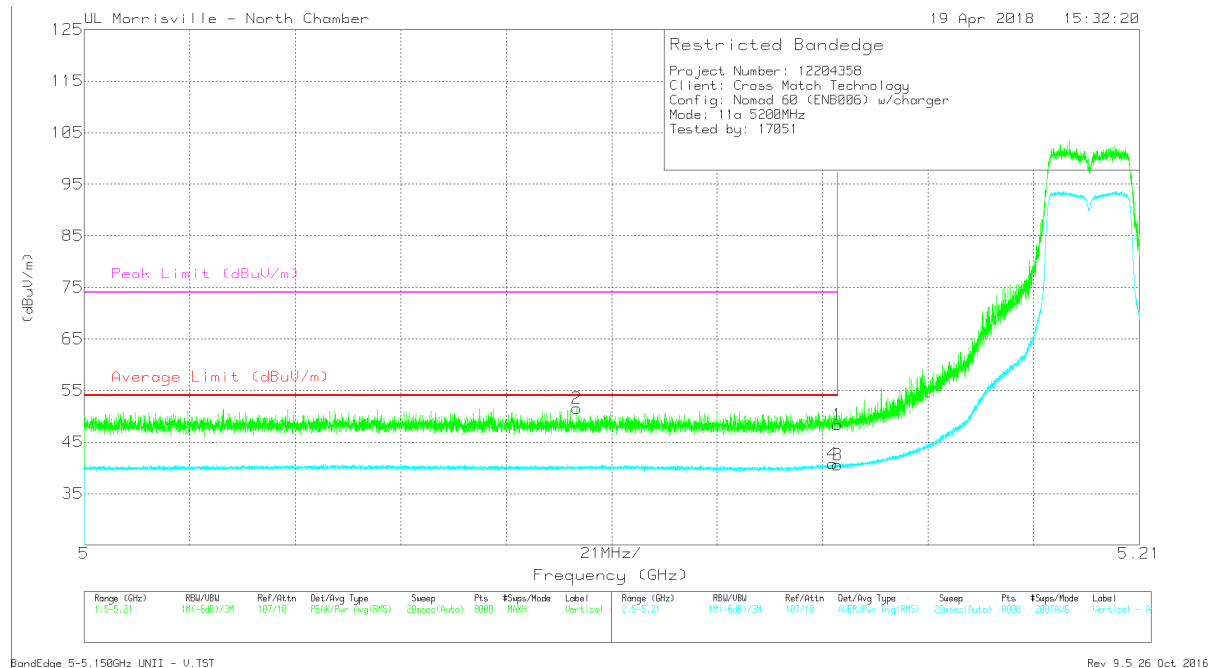
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	39.67	Pk	34.2	-22.7	0	51.17	-	-	74	-22.83	223	148	H
2	* 5.057	40.13	Pk	34	-22.5	0	51.63	-	-	74	-22.37	223	148	H
3	* 5.15	28.05	RMS	34.2	-22.7	.2	39.75	54	-14.25	-	-	223	148	H
4	* 5.04	28.95	RMS	34	-22.4	.2	40.75	54	-13.25	-	-	223	148	H

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, VERTICAL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (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	* 5.15	36.87	Pk	34.2	-22.7	0	48.37	-	-	74	-25.63	161	201	V
2	* 5.098	40.13	Pk	34.1	-22.7	0	51.53	-	-	74	-22.47	161	201	V
3	* 5.15	28.83	RMS	34.2	-22.7	.2	40.53	54	-13.47	-	-	161	201	V
4	* 5.149	29.21	RMS	34.2	-22.8	.2	40.81	54	-13.19	-	-	161	201	V

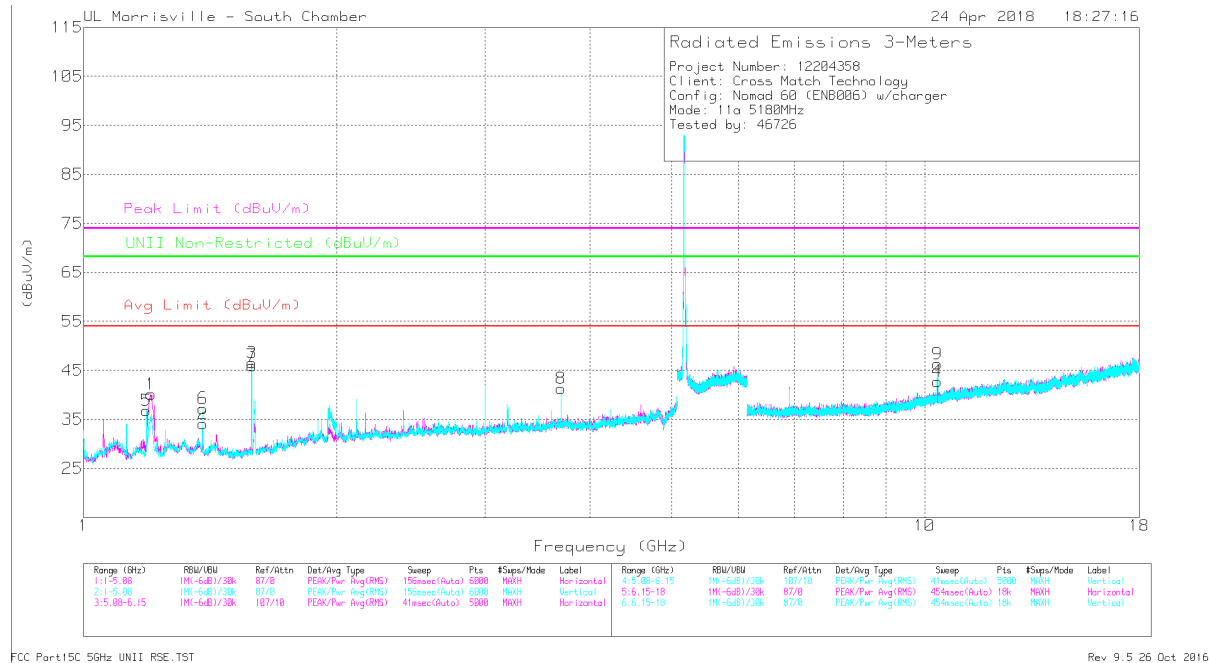
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



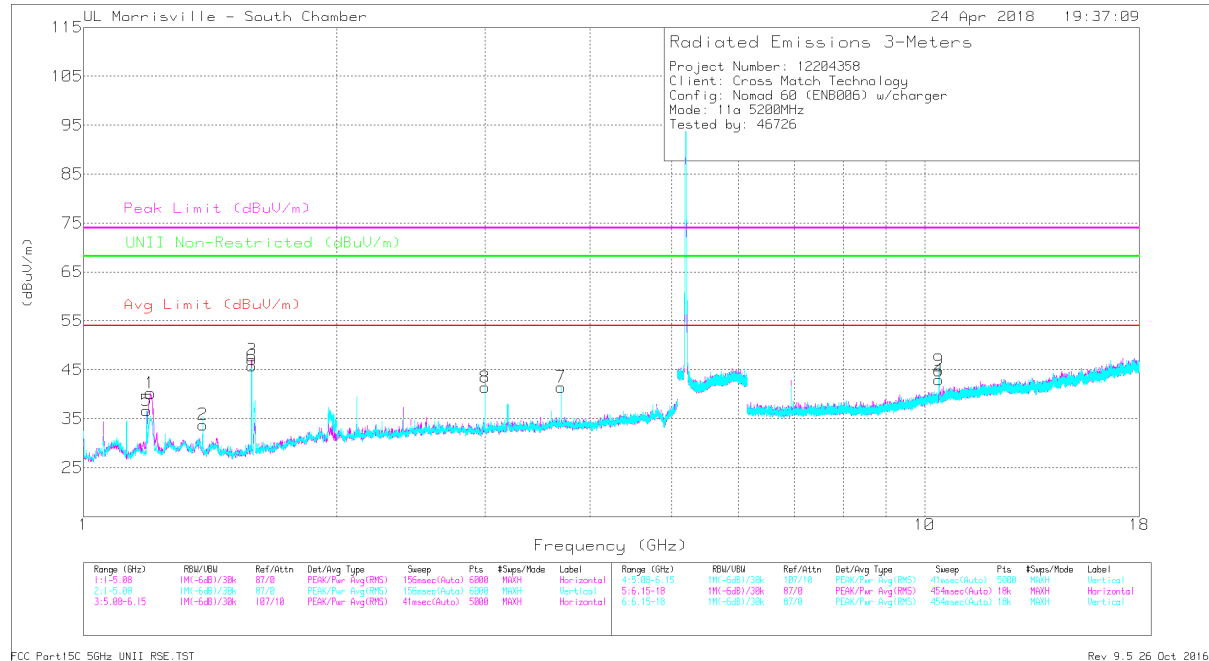
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.202	53.79	PK-U	28.5	-35.2	0	47.09	-	-	74	-26.91	-	-	233	200	H
	* 1.202	41.82	ADR	28.5	-35.2	.2	35.32	54	-18.68	-	-	-	-	233	200	H
2	* 1.386	47.21	PK-U	28.7	-34.8	0	41.11	-	-	74	-32.89	-	-	331	359	H
	* 1.386	41.43	ADR	28.7	-34.8	.2	35.53	54	-18.47	-	-	-	-	331	359	H
3	* 1.584	55.86	PK-U	28	-34.7	0	49.16	-	-	74	-24.84	-	-	278	153	H
	* 1.584	51.41	ADR	28	-34.7	.2	44.91	54	-9.09	-	-	-	-	278	153	H
5	* 1.188	48.37	PK-U	28.2	-35.2	0	41.37	-	-	74	-32.63	-	-	358	102	V
	* 1.188	42.39	ADR	28.2	-35.2	.2	35.59	54	-18.41	-	-	-	-	358	102	V
6	* 1.386	47.01	PK-U	28.7	-34.8	0	40.91	-	-	74	-33.09	-	-	252	102	V
	* 1.386	40.78	ADR	28.7	-34.8	.2	34.88	54	-19.12	-	-	-	-	252	102	V
7	* 1.584	54.93	PK-U	28	-34.7	0	48.23	-	-	74	-25.77	-	-	182	125	V
	* 1.584	50.29	ADR	28	-34.7	.2	43.79	54	-10.21	-	-	-	-	182	125	V
8	* 3.696	46.05	PK-U	33.3	-32.4	0	46.95	-	-	74	-27.05	-	-	218	175	V
	* 3.696	38.57	ADR	33.3	-32.4	.2	39.67	54	-14.33	-	-	-	-	218	175	V
4	10.36	38.52	PK-U	37.4	-25.3	0	50.62	-	-	-	-	68.2	-17.58	200	101	H
9	10.36	41.74	PK-U	37.4	-25.3	0	53.84	-	-	-	-	68.2	-14.36	218	109	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MIDDLE CHANNEL



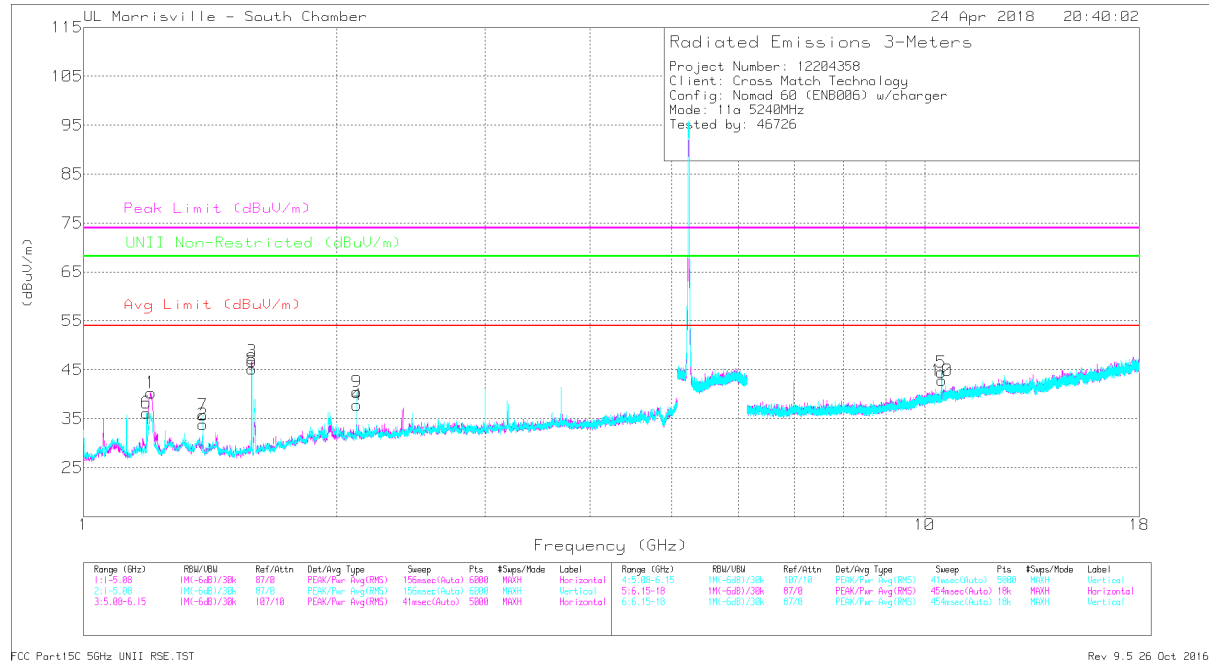
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.201	53.73	PK-U	28.5	-35.2	0	47.03	-	-	74	-26.97	-	-	264	158	H
	* 1.201	41.41	ADR	28.5	-35.2	.2	34.91	54	-19.09	-	-	-	-	264	158	H
2	* 1.386	46.32	PK-U	28.7	-34.8	0	40.22	-	-	74	-33.78	-	-	205	119	H
	* 1.386	39.77	ADR	28.7	-34.8	.2	33.87	54	-20.13	-	-	-	-	205	119	H
3	* 1.584	56.01	PK-U	28	-34.7	0	49.31	-	-	74	-24.69	-	-	272	157	H
	* 1.584	51.65	ADR	28	-34.7	.2	45.15	54	-8.85	-	-	-	-	272	157	H
5	* 1.188	48.25	PK-U	28.2	-35.2	0	41.25	-	-	74	-32.75	-	-	351	102	V
	* 1.188	42.7	ADR	28.2	-35.2	.2	35.9	54	-18.1	-	-	-	-	351	102	V
6	* 1.584	54.96	PK-U	28	-34.7	0	48.26	-	-	74	-25.74	-	-	182	131	V
	* 1.584	50.39	ADR	28	-34.7	.2	43.89	54	-10.11	-	-	-	-	182	131	V
7	* 3.696	45.09	PK-U	33.3	-32.4	0	45.99	-	-	74	-28.01	-	-	212	184	V
	* 3.696	36.85	ADR	33.3	-32.4	.2	37.95	54	-16.05	-	-	-	-	212	184	V
8	3	46.73	PK-U	32.5	-33.7	0	45.53	-	-	-	-	68.2	-22.67	232	200	V
9	10.399	40.8	PK-U	37.4	-25.4	0	52.8	-	-	-	-	68.2	-15.4	223	113	V
4	10.4	37.93	PK-U	37.4	-25.4	0	49.93	-	-	-	-	68.2	-18.27	218	129	H

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL



Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.203	54.26	PK-U	28.5	-35.2	0	47.56	-	-	74	-26.44	-	-	241	144	H
	* 1.203	42.16	ADR	28.5	-35.2	.2	35.66	54	-18.34	-	-	-	-	241	144	H
2	* 1.386	46.83	PK-U	28.7	-34.8	0	40.73	-	-	74	-33.27	-	-	206	114	H
	* 1.386	40.32	ADR	28.7	-34.8	.2	34.42	54	-19.58	-	-	-	-	206	114	H
3	* 1.584	56	PK-U	28	-34.7	0	49.3	-	-	74	-24.7	-	-	276	153	H
	* 1.584	51.51	ADR	28	-34.7	.2	45.01	54	-8.99	-	-	-	-	276	153	H
6	* 1.188	48.41	PK-U	28.2	-35.2	0	41.41	-	-	74	-32.59	-	-	353	102	V
	* 1.188	42.72	ADR	28.2	-35.2	.2	35.92	54	-18.08	-	-	-	-	353	102	V
7	* 1.386	46.81	PK-U	28.7	-34.8	0	40.71	-	-	74	-33.29	-	-	263	103	V
	* 1.386	40.87	ADR	28.7	-34.8	.2	34.97	54	-19.03	-	-	-	-	263	103	V
8	* 1.584	54.71	PK-U	28	-34.7	0	48.01	-	-	74	-25.99	-	-	177	192	V
	* 1.584	49.7	ADR	28	-34.7	.2	43.2	54	-10.8	-	-	-	-	177	192	V
4	2.112	47.05	PK-U	31.7	-34.5	0	44.25	-	-	-	-	68.2	-23.95	176	134	H
9	2.112	48.17	PK-U	31.7	-34.5	0	45.37	-	-	-	-	68.2	-22.83	198	127	V
5	10.472	40.32	PK-U	37.5	-25.5	0	52.32	-	-	-	-	68.2	-15.88	228	120	V
10	10.48	38.22	PK-U	37.5	-25.5	0	50.22	-	-	-	-	68.2	-17.98	200	192	H

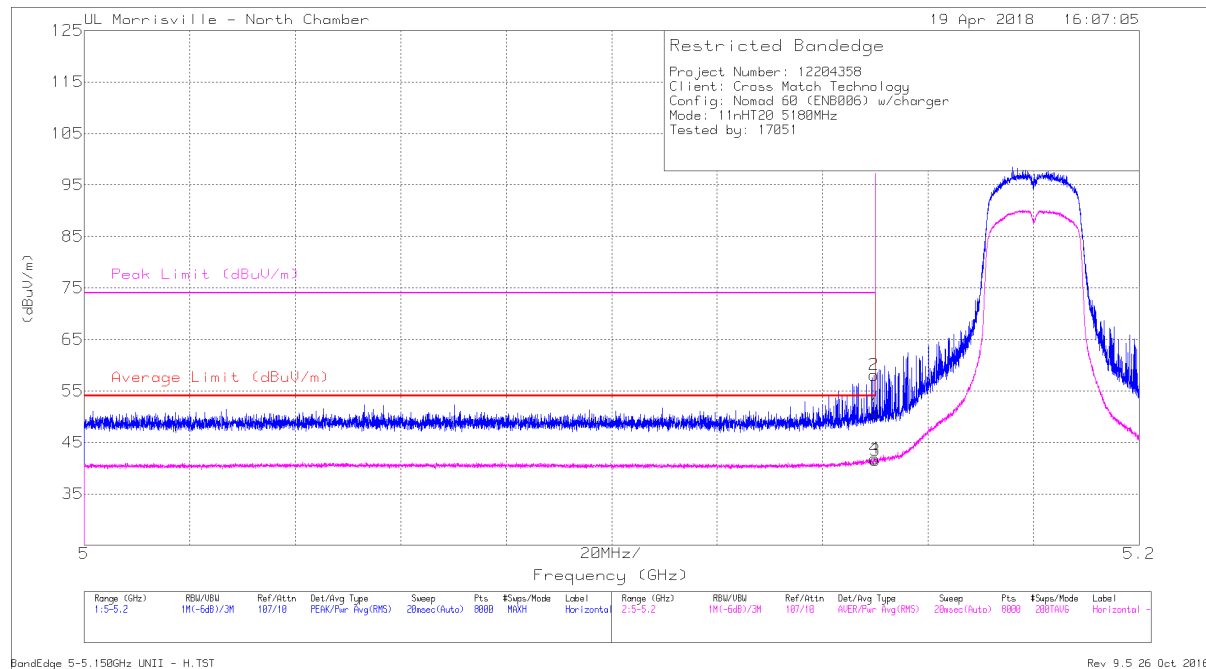
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.2. TX ABOVE 1 GHz 802.11nHT20 MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



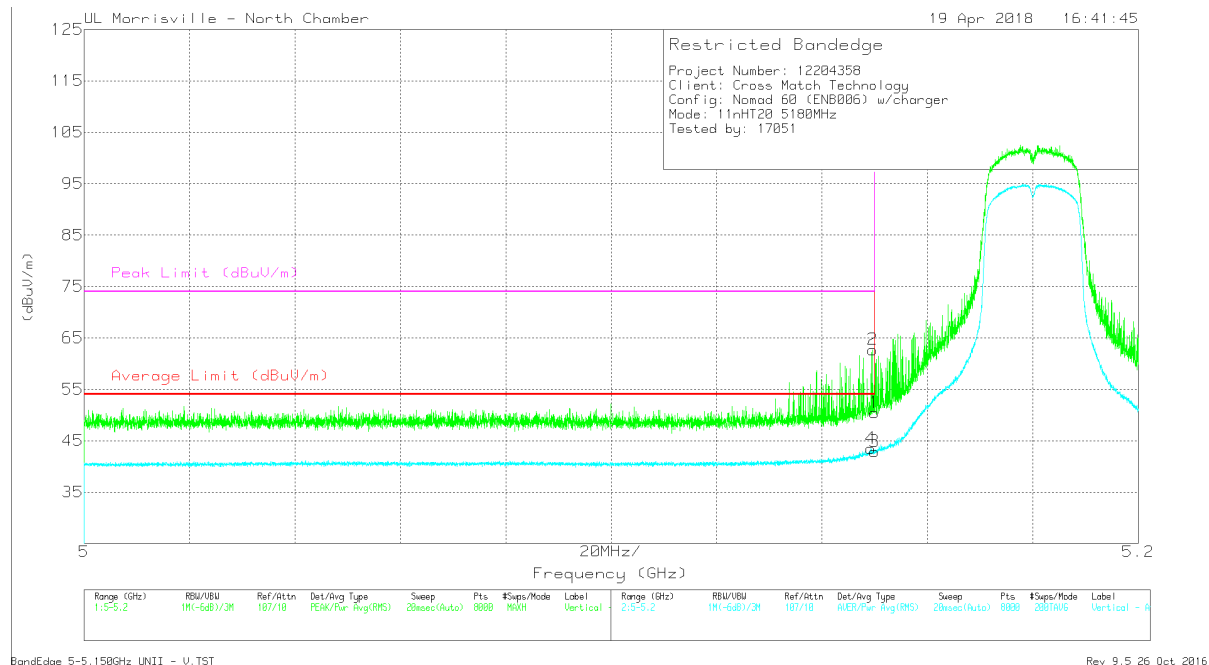
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	39.09	Pk	34.2	-22.7	0	50.59	-	-	74	-23.41	215	136	H
2	* 5.15	46.59	Pk	34.2	-22.7	0	58.09	-	-	74	-15.91	215	136	H
3	* 5.15	29.34	RMS	34.2	-22.7	.66	41.5	54	-12.5	-	-	215	136	H
4	* 5.15	29.7	RMS	34.2	-22.7	.66	41.86	54	-12.14	-	-	215	136	H

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

Pk - Peak detector

RMS - RMS detection

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (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	* 5.15	38.98	Pk	34.2	-22.7	0	50.48	-	-	74	-23.52	165	191	V
2	* 5.15	51.33	Pk	34.2	-22.8	0	62.73	-	-	74	-11.27	165	191	V
3	* 5.15	30.76	RMS	34.2	-22.7	.66	42.92	54	-11.08	-	-	165	191	V
4	* 5.149	31.44	RMS	34.2	-22.8	.66	43.5	54	-10.5	-	-	165	191	V

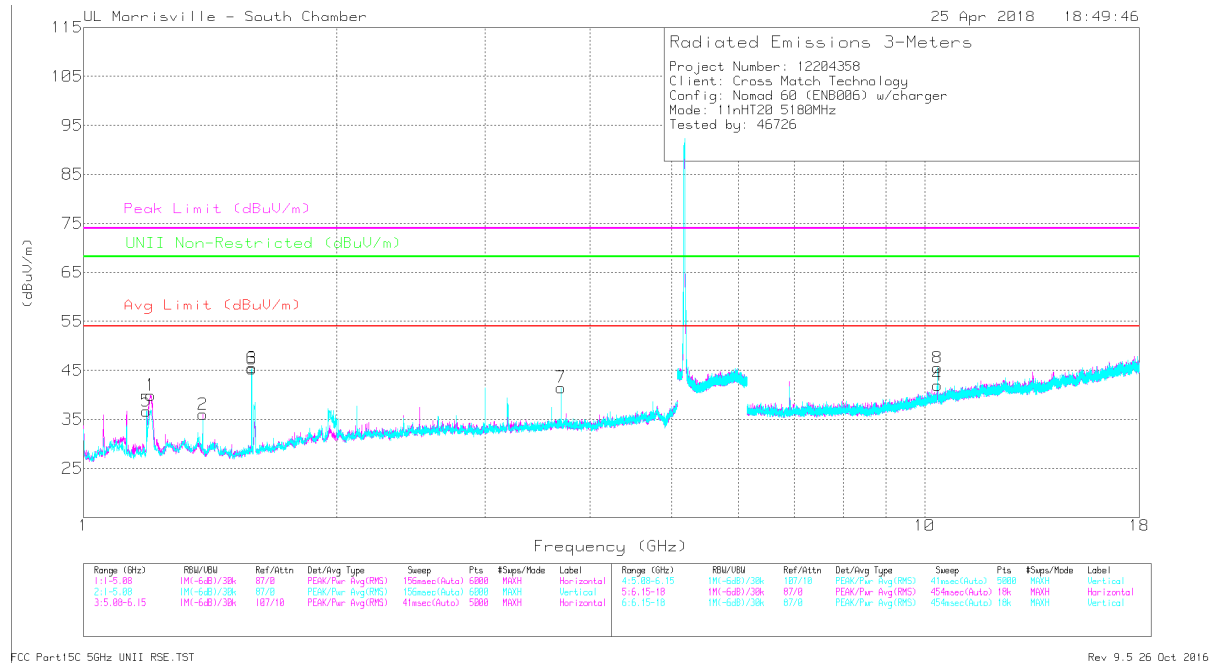
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



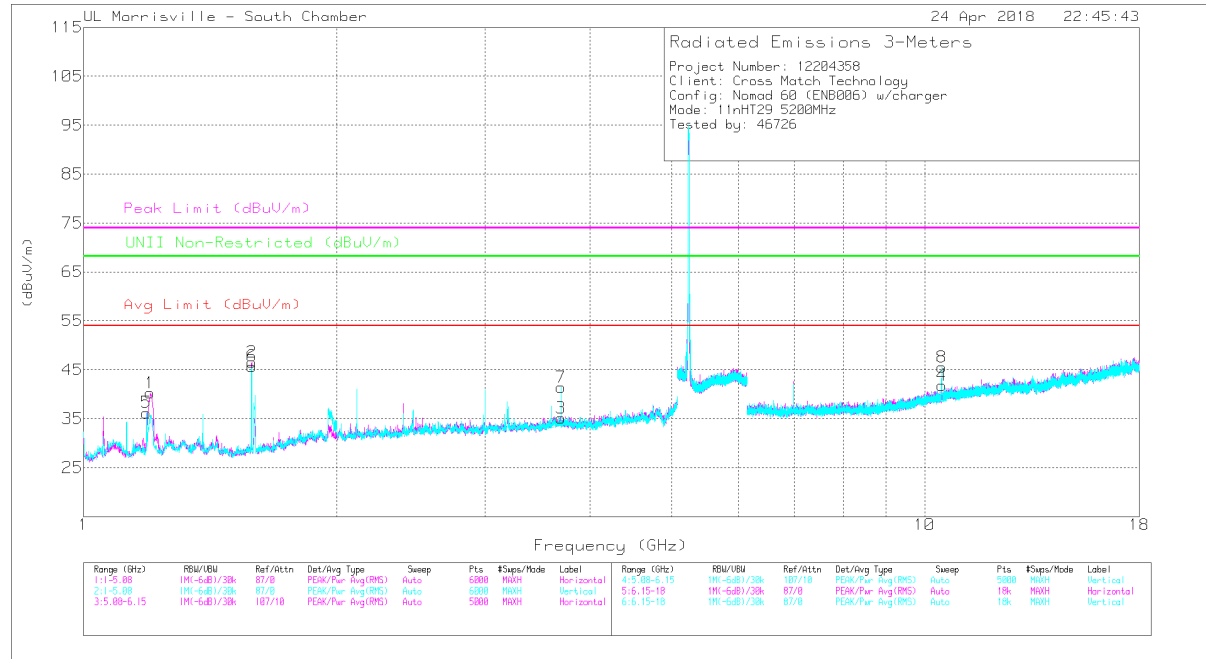
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.201	53.3	PK-U	28.5	-35.2	0	46.6	-	-	74	-27.4	-	-	256	105	H
	* 1.201	41.44	ADR	28.5	-35.2	.66	35.4	54	-18.6	-	-	-	-	256	105	H
2	* 1.386	46.4	PK-U	28.7	-34.8	0	40.3	-	-	74	-33.7	-	-	76	187	H
	* 1.386	39.83	ADR	28.7	-34.8	.66	34.39	54	-19.61	-	-	-	-	76	187	H
3	* 1.584	54.51	PK-U	28	-34.7	0	47.81	-	-	74	-26.19	-	-	163	106	H
	* 1.584	49.64	ADR	28	-34.7	.66	43.6	54	-10.4	-	-	-	-	163	106	H
5	* 1.188	47.13	PK-U	28.2	-35.2	0	40.13	-	-	74	-33.87	-	-	139	108	V
	* 1.188	41.46	ADR	28.2	-35.2	.66	35.12	54	-18.88	-	-	-	-	139	108	V
6	* 1.584	54.65	PK-U	28	-34.7	0	47.95	-	-	74	-26.05	-	-	162	124	V
	* 1.584	50.21	ADR	28	-34.7	.66	44.17	54	-9.83	-	-	-	-	162	124	V
7	* 3.696	45.71	PK-U	33.3	-32.4	0	46.61	-	-	74	-27.39	-	-	208	118	V
	* 3.696	37.27	ADR	33.3	-32.4	.66	38.83	54	-15.17	-	-	-	-	208	118	V
8	10.359	39.64	PK-U	37.4	-25.3	0	51.74	-	-	-	-	68.2	-16.46	227	134	V
4	10.36	37.3	PK-U	37.4	-25.3	0	49.4	-	-	-	-	68.2	-18.8	206	108	H

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL



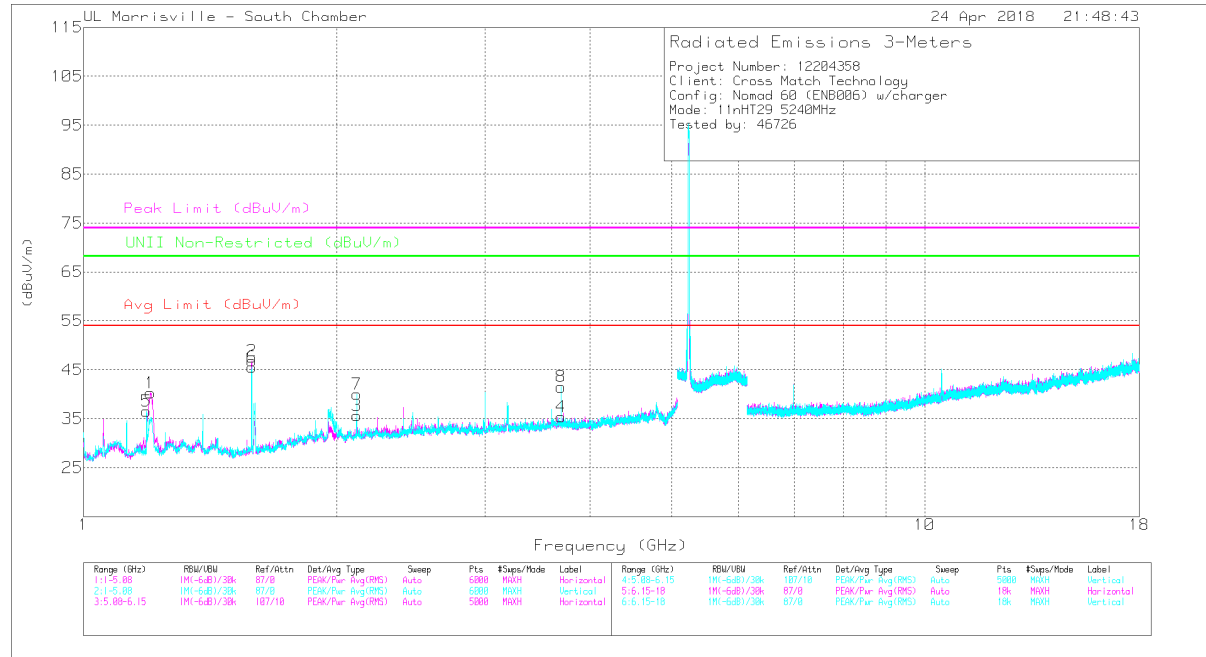
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.2	53.81	PK-U	28.5	-35.2	0	47.11	-	-	74	-26.89	-	-	238	135	H
	* 1.2	42.54	ADR	28.5	-35.2	.66	36.5	54	-17.5	-	-	-	-	238	135	H
2	* 1.584	56.11	PK-U	28	-34.7	0	49.41	-	-	74	-24.59	-	-	271	160	H
	* 1.584	51.65	ADR	28	-34.7	.66	45.61	54	-8.39	-	-	-	-	271	160	H
3	* 3.696	41.49	PK-U	33.3	-32.4	0	42.39	-	-	74	-31.61	-	-	235	104	H
	* 3.696	30.13	ADR	33.3	-32.4	.66	31.69	54	-22.31	-	-	-	-	235	104	H
5	* 1.188	48.41	PK-U	28.2	-35.2	0	41.41	-	-	74	-32.59	-	-	350	104	V
	* 1.188	42.66	ADR	28.2	-35.2	.66	36.32	54	-17.68	-	-	-	-	350	104	V
6	* 1.584	54.97	PK-U	28	-34.7	0	48.27	-	-	74	-25.73	-	-	181	130	V
	* 1.584	50.26	ADR	28	-34.7	.66	44.22	54	-9.78	-	-	-	-	181	130	V
7	* 3.696	45.88	PK-U	33.3	-32.4	0	46.78	-	-	74	-27.22	-	-	224	105	V
	* 3.696	37.8	ADR	33.3	-32.4	.66	39.36	54	-14.64	-	-	-	-	224	105	V
8	10.479	42.63	PK-U	37.5	-25.5	0	54.63	-	-	-	-	68.2	-13.57	231	142	V
4	10.48	38.7	PK-U	37.5	-25.5	0	50.7	-	-	-	-	68.2	-17.5	201	119	H

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL



Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.201	54.27	PK-U	28.5	-35.2	0	47.57	-	-	74	-26.43	-	-	269	103	H
	* 1.201	41.64	ADR	28.5	-35.2	.66	35.6	54	-18.4	-	-	-	-	269	103	H
2	* 1.584	56.18	PK-U	28	-34.7	0	49.48	-	-	74	-24.52	-	-	268	161	H
	* 1.584	51.79	ADR	28	-34.7	.66	45.75	54	-8.25	-	-	-	-	268	161	H
4	* 3.696	42.58	PK-U	33.3	-32.4	0	43.48	-	-	74	-30.52	-	-	318	268	H
	* 3.696	31.67	ADR	33.3	-32.4	.66	33.23	54	-20.77	-	-	-	-	318	268	H
5	* 1.188	48.12	PK-U	28.2	-35.2	0	41.12	-	-	74	-32.88	-	-	348	105	V
	* 1.188	42.64	ADR	28.2	-35.2	.66	36.3	54	-17.7	-	-	-	-	348	105	V
6	* 1.584	55.07	PK-U	28	-34.7	0	48.37	-	-	74	-25.63	-	-	181	133	V
	* 1.584	50.27	ADR	28	-34.7	.66	44.23	54	-9.77	-	-	-	-	181	133	V
8	* 3.696	46.36	PK-U	33.3	-32.4	0	47.26	-	-	74	-26.74	-	-	221	129	V
	* 3.696	38.49	ADR	33.3	-32.4	.66	40.05	54	-13.95	-	-	-	-	221	129	V
3	2.112	46.28	PK-U	31.7	-34.5	0	43.48	-	-	-	-	68.2	-24.72	250	182	H
7	2.112	48.25	PK-U	31.7	-34.5	0	45.45	-	-	-	-	68.2	-22.75	194	124	V

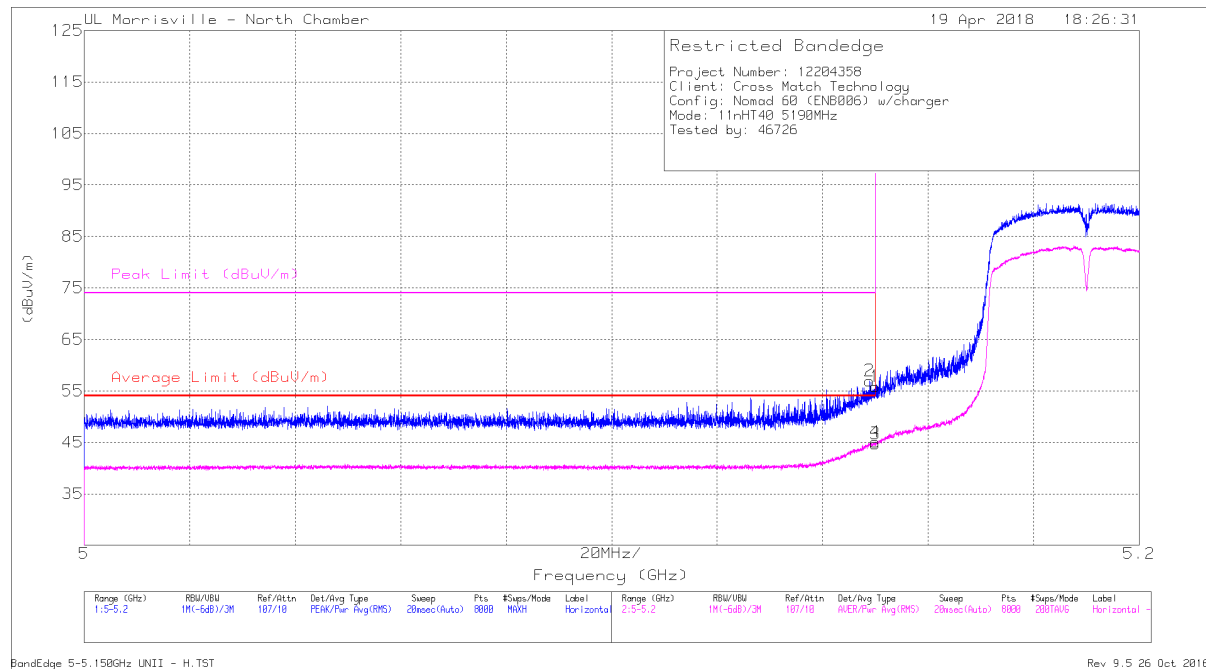
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.3. TX ABOVE 1 GHz 802.11nHT40 MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



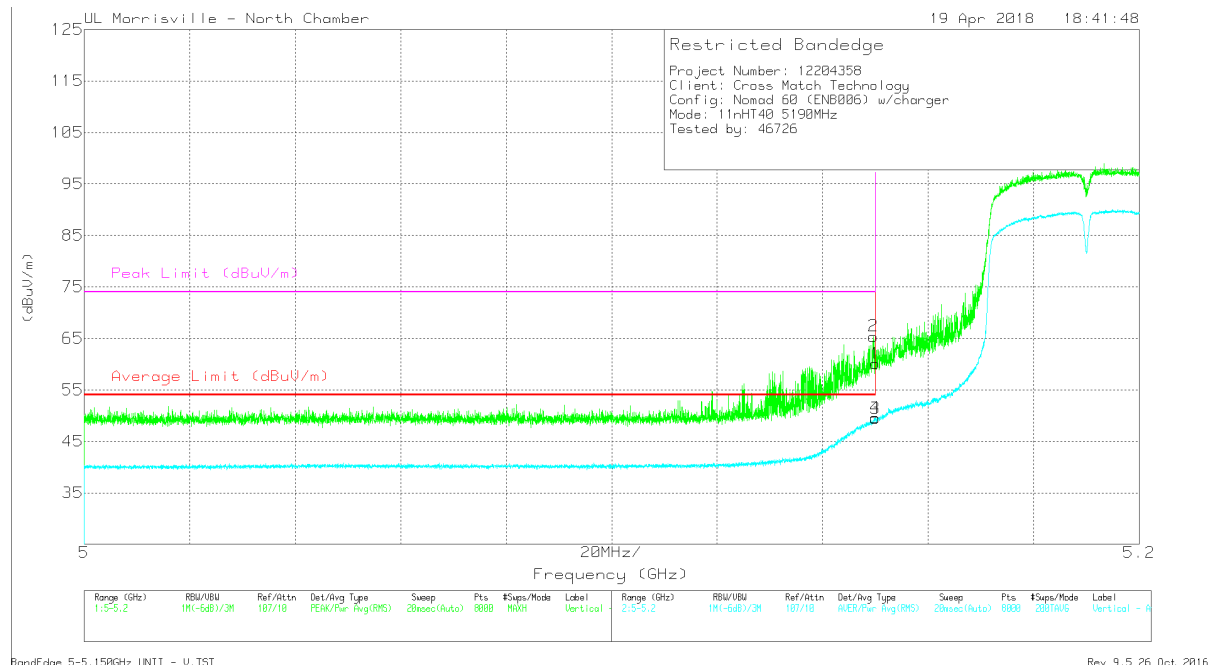
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	44.34	Pk	34.2	-22.7	0	55.84	-	-	74	-18.16	225	148	H
2	* 5.149	45.56	Pk	34.2	-22.8	0	56.96	-	-	74	-17.04	225	148	H
3	* 5.15	32.85	RMS	34.2	-22.7	.38	44.73	54	-9.27	-	-	225	148	H
4	* 5.15	33.2	RMS	34.2	-22.7	.38	45.08	54	-8.92	-	-	225	148	H

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

Pk - Peak detector

RMS - RMS detection

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



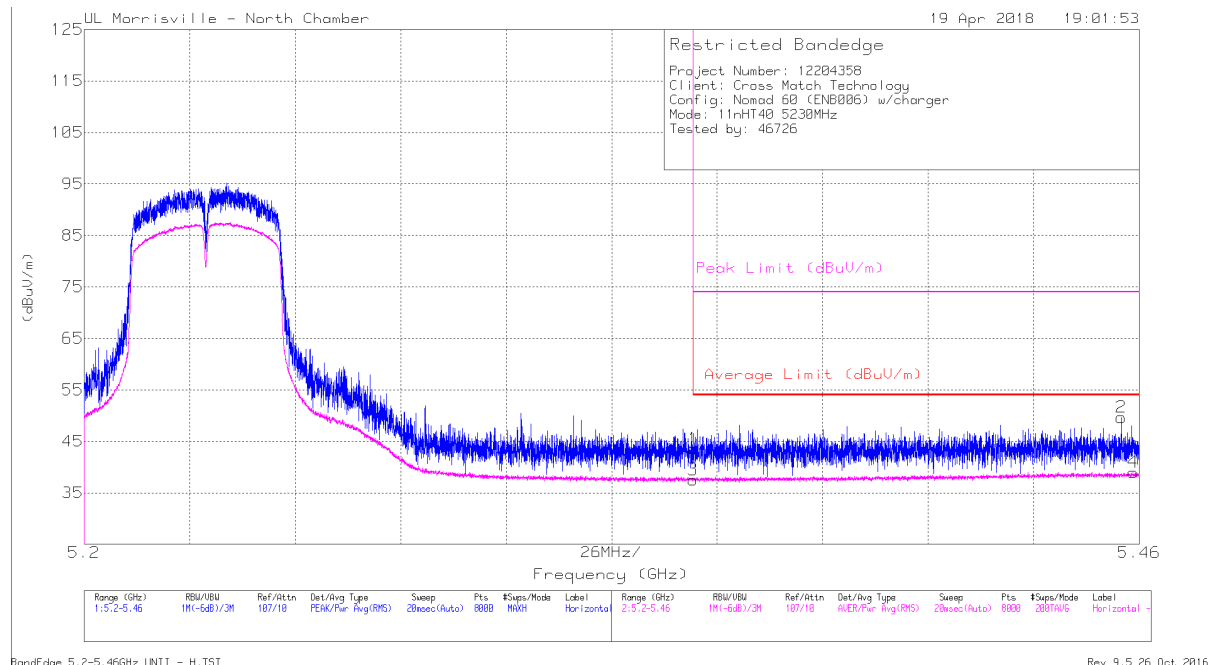
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	48.58	Pk	34.2	-22.7	0	60.08	-	-	74	-13.92	162	196	V
2	* 5.15	54.01	Pk	34.2	-22.8	0	65.41	-	-	74	-8.59	162	196	V
3	* 5.15	37.56	RMS	34.2	-22.7	.38	49.44	54	-4.56	-	-	162	196	V
4	* 5.15	37.7	RMS	34.2	-22.7	.38	49.58	54	-4.42	-	-	162	196	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



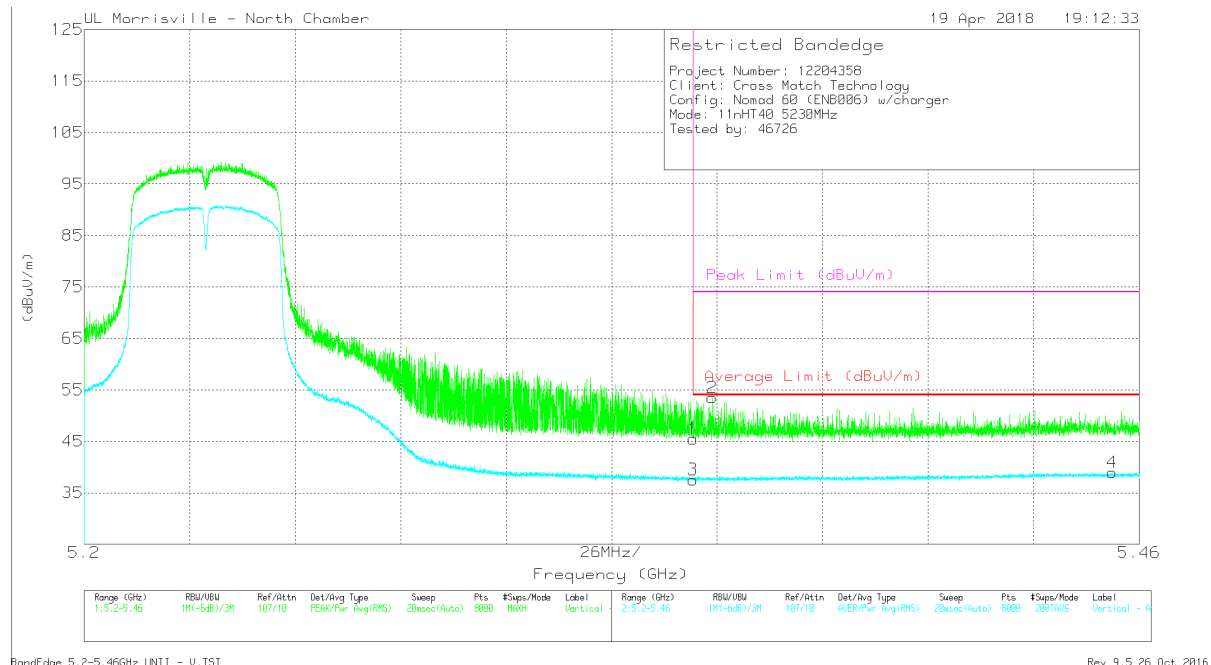
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	32.48	Pk	34.3	-23.2	0	43.58	-	-	74	-30.42	198	204	H
2	* 5.456	38.26	Pk	34.5	-23.1	0	49.66	-	-	74	-24.34	198	204	H
3	* 5.35	26.06	RMS	34.3	-23.2	.38	37.54	54	-16.46	-	-	198	204	H
4	* 5.459	27.23	RMS	34.5	-23.1	.38	39.01	54	-14.99	-	-	198	204	H

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, VERTICAL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Ftr/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	* 5.35	34.42	Pk	34.3	-23.2	0	45.52	-	-	74	-28.48	152	223	V
2	* 5.355	42.29	Pk	34.4	-23.2	0	53.49	-	-	74	-20.51	152	223	V
3	* 5.35	26.07	RMS	34.3	-23.2	.38	37.55	54	-16.45	-	-	152	223	V
4	* 5.453	27.17	RMS	34.5	-23.1	.38	38.95	54	-15.05	-	-	152	223	V

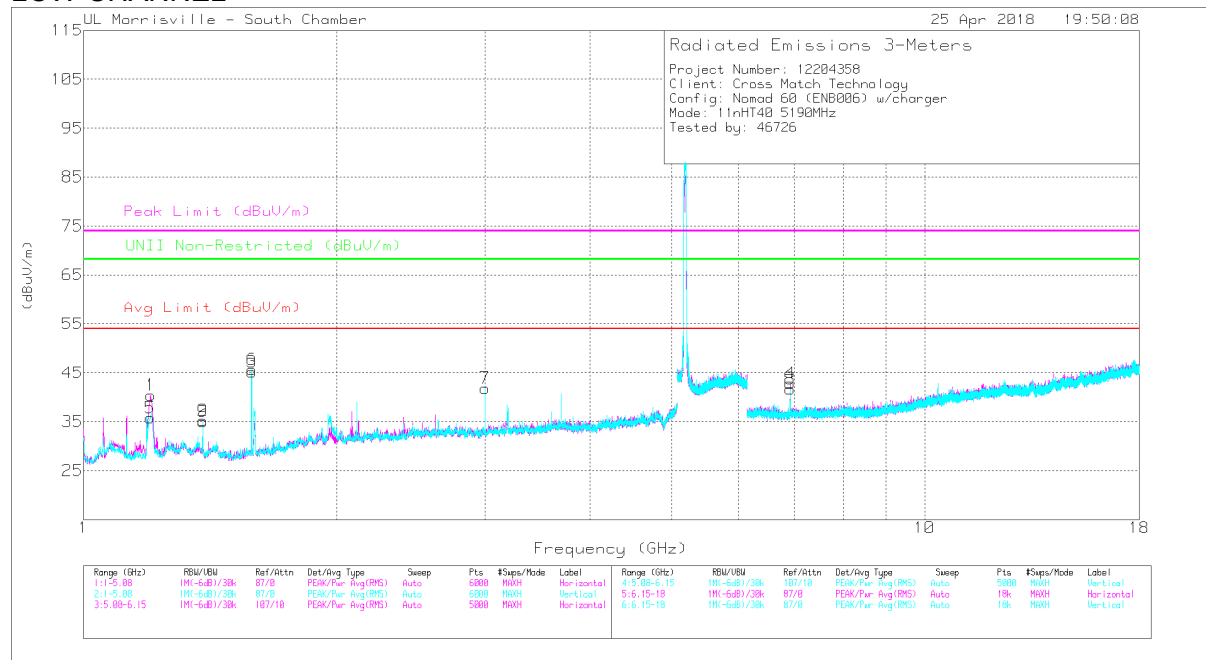
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



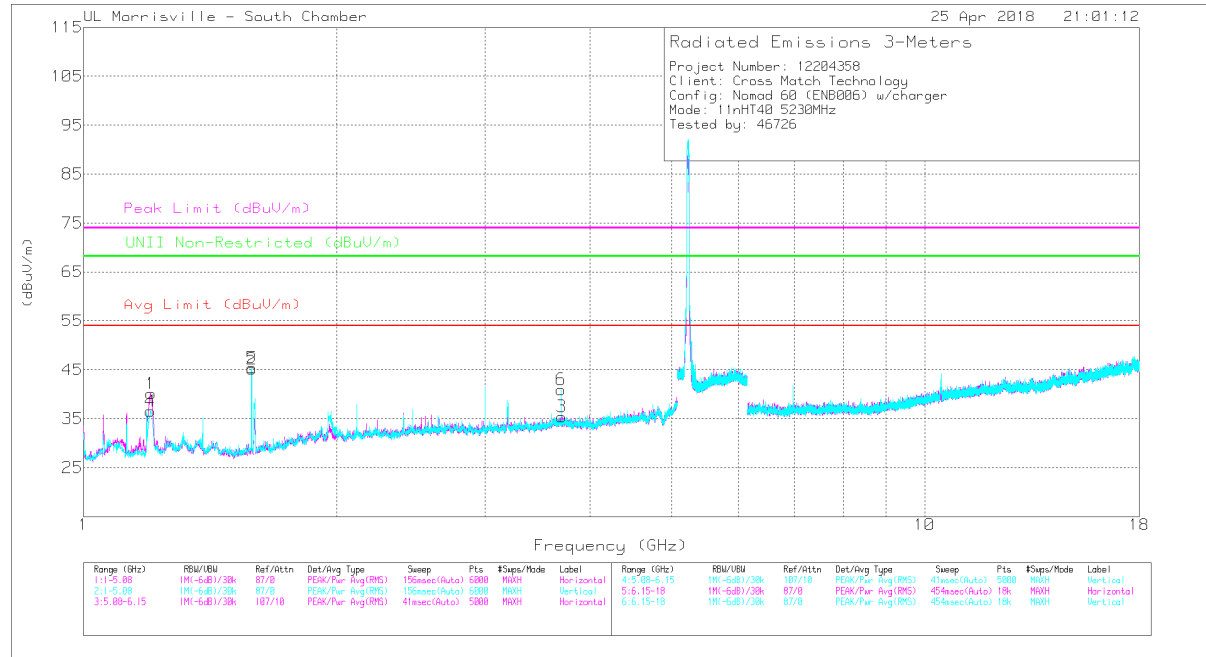
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 AF (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.201	54.6	PK-U	28.5	-35.2	0	47.9	-	-	74	-26.1	-	-	263	102	H
	* 1.201	42.3	ADR	28.5	-35.2	.38	35.98	54	-18.02	-	-	-	-	263	102	H
2	* 1.386	46.54	PK-U	28.7	-34.8	0	40.44	-	-	74	-33.56	-	-	66	106	H
	* 1.386	40	ADR	28.7	-34.8	.38	34.28	54	-19.72	-	-	-	-	66	106	H
3	* 1.584	54.42	PK-U	28	-34.7	0	47.72	-	-	74	-26.28	-	-	153	108	H
	* 1.584	49.61	ADR	28	-34.7	.38	43.29	54	-10.71	-	-	-	-	153	108	H
5	* 1.199	50.15	PK-U	28.5	-35.2	0	43.45	-	-	74	-30.55	-	-	360	103	V
	* 1.199	38.01	ADR	28.5	-35.2	.38	31.69	54	-22.31	-	-	-	-	360	103	V
6	* 1.584	54.85	PK-U	28	-34.7	0	48.15	-	-	74	-25.85	-	-	174	128	V
	* 1.584	50.04	ADR	28	-34.7	.38	43.72	54	-10.28	-	-	-	-	174	128	V
9	* 1.386	47.01	PK-U	28.7	-34.8	0	40.91	-	-	74	-33.09	-	-	207	365	V
	* 1.386	41.2	ADR	28.7	-34.8	.38	35.48	54	-18.52	-	-	-	-	207	365	V
7	3	47.2	PK-U	32.5	-33.7	0	46	-	-	-	-	68.2	-22.2	235	196	V
4	6.92	40.89	PK-U	35.4	-28.4	0	47.89	-	-	-	-	68.2	-20.31	174	116	H
8	6.92	41.04	PK-U	35.4	-28.4	0	48.04	-	-	-	-	68.2	-20.16	251	153	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL



Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.202	53.65	PK-U	28.5	-35.2	0	46.95	-	-	74	-27.05	-	-	266	103	H
	* 1.201	41.94	ADR	28.5	-35.2	.38	35.62	54	-18.38	-	-	-	-	266	103	H
2	* 1.584	54.4	PK-U	28	-34.7	0	47.7	-	-	74	-26.3	-	-	155	107	H
	* 1.584	49.66	ADR	28	-34.7	.38	43.34	54	-10.66	-	-	-	-	155	107	H
3	* 3.704	40.35	PK-U	33.3	-32.4	0	41.25	-	-	74	-32.75	-	-	347	133	H
	* 3.704	28.14	ADR	33.3	-32.4	.38	29.42	54	-24.58	-	-	-	-	347	133	H
4	* 1.584	54.66	PK-U	28	-34.7	0	47.96	-	-	74	-26.04	-	-	162	127	V
	* 1.584	49.99	ADR	28	-34.7	.38	43.67	54	-10.33	-	-	-	-	162	127	V
5	* 3.696	45.55	PK-U	33.3	-32.4	0	46.45	-	-	74	-27.55	-	-	209	101	V
	* 3.696	37.64	ADR	33.3	-32.4	.38	38.92	54	-15.08	-	-	-	-	209	101	V
6	* 1.201	50.15	PK-U	28.5	-35.2	0	43.45	-	-	74	-30.55	-	-	8	336	V
	* 1.201	38.23	ADR	28.5	-35.2	.38	31.91	54	-22.09	-	-	-	-	8	336	V

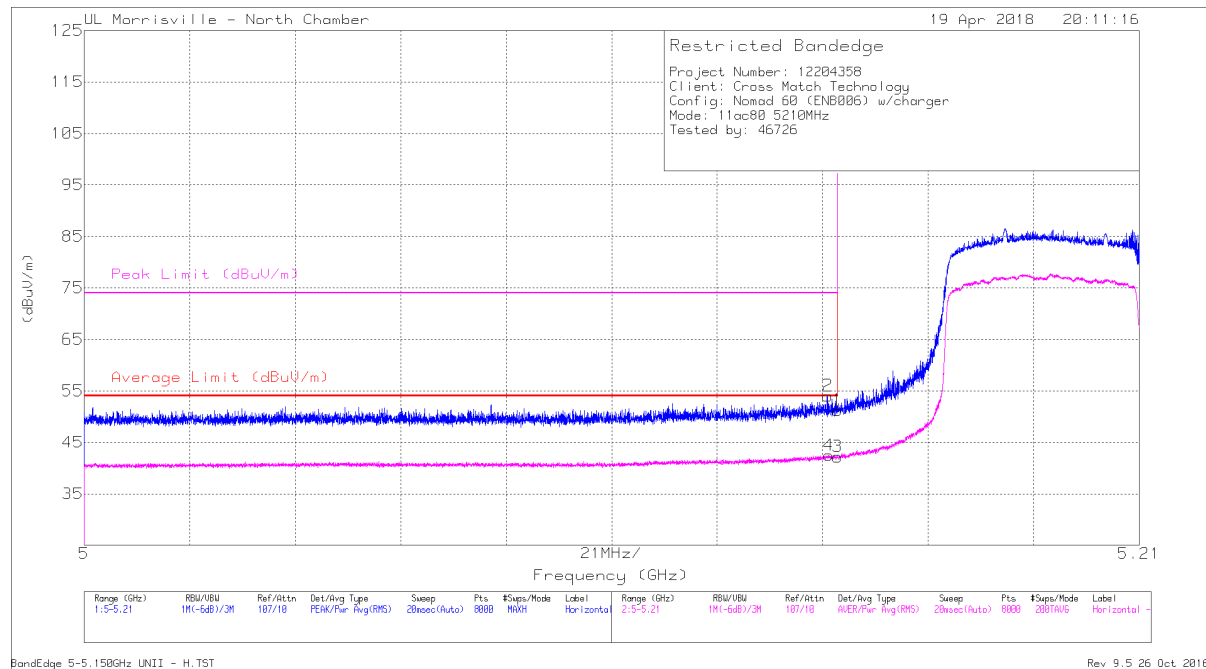
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.4. TX ABOVE 1 GHz 802.11acVHT80 MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



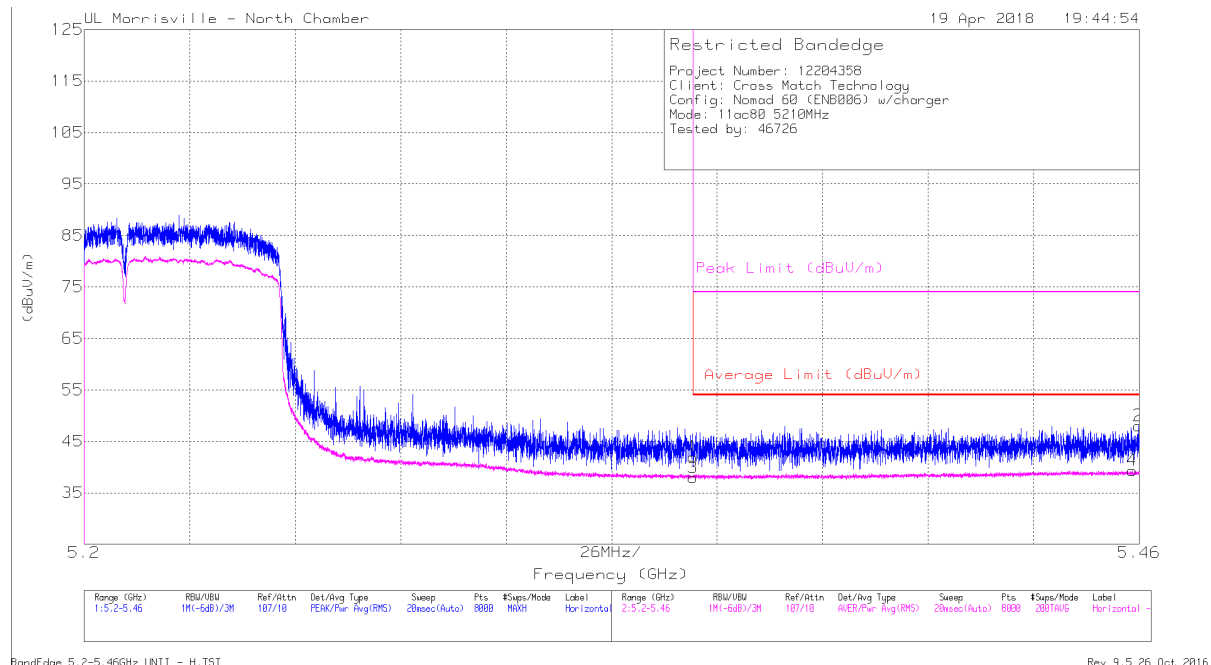
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	39.72	Pk	34.2	-22.7	0	51.22	-	-	74	-22.78	155	294	H
2	* 5.148	42.64	Pk	34.2	-22.8	0	54.04	-	-	74	-19.96	155	294	H
3	* 5.15	29.98	RMS	34.2	-22.7	.73	42.21	54	-11.79	-	-	155	294	H
4	* 5.148	30.35	RMS	34.2	-22.8	.73	42.48	54	-11.52	-	-	155	294	H

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

Pk - Peak detector

RMS - RMS detection

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



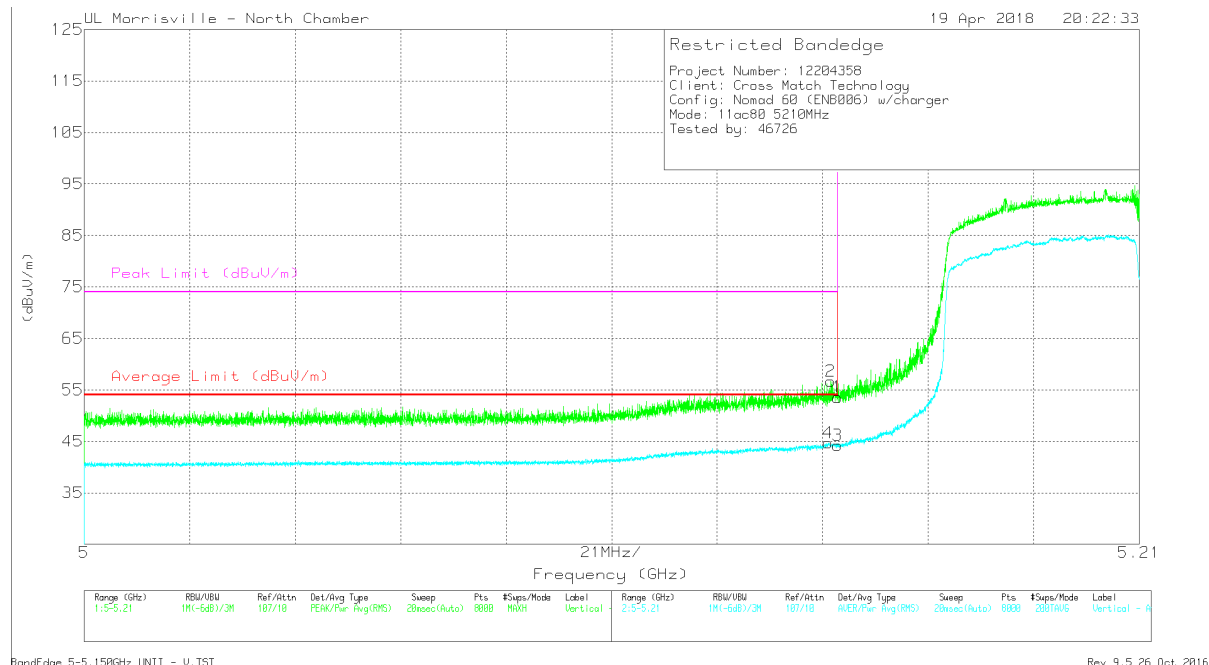
Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBUV/m)	Average Limit (dBUV/m)	Margin (dB)	Peak Limit (dBUV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	30.85	Pk	34.3	-23.2	0	41.95	-	-	74	-32.05	202	183	H
2	* 5.46	36.63	Pk	34.5	-23.1	0	48.03	-	-	74	-25.97	202	183	H
3	* 5.35	26.16	RMS	34.3	-23.2	.73	37.99	54	-16.01	-	-	202	183	H
4	* 5.458	27.23	RMS	34.5	-23.1	.73	39.36	54	-14.64	-	-	202	183	H

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



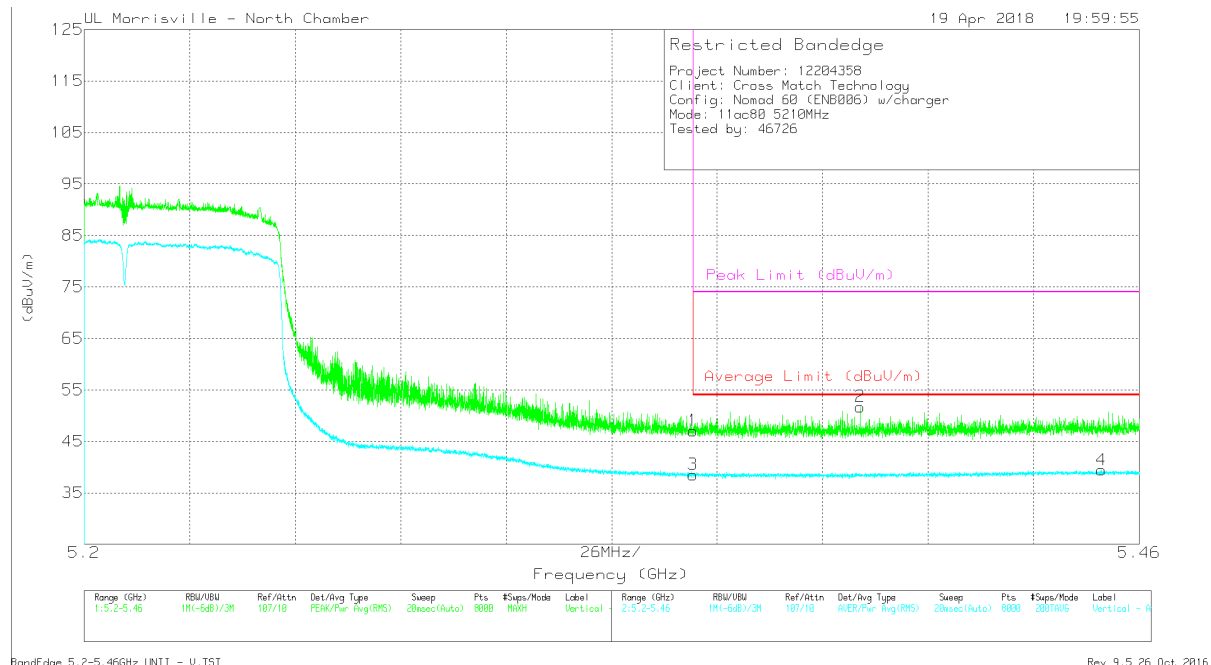
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	42.07	Pk	34.2	-22.7	0	53.57	-	-	74	-20.43	155	285	V
2	* 5.149	45.25	Pk	34.2	-22.8	0	56.65	-	-	74	-17.35	155	285	V
3	* 5.15	31.97	RMS	34.2	-22.7	.73	44.2	54	-9.8	-	-	155	285	V
4	* 5.148	32.56	RMS	34.2	-22.8	.73	44.69	54	-9.31	-	-	155	285	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, VERTICAL)



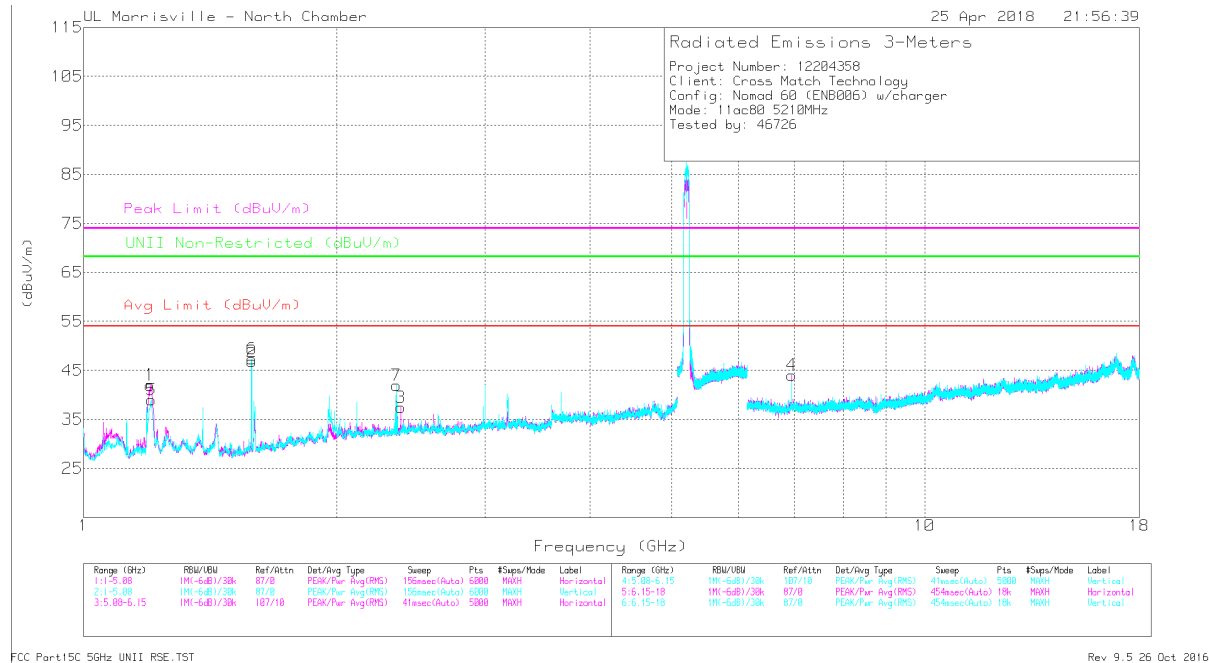
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	35.95	Pk	34.3	-23.2	0	47.05	-	-	74	-26.95	151	291	V
2	* 5.391	40.53	Pk	34.4	-23.2	0	51.73	-	-	74	-22.27	151	291	V
3	* 5.35	26.71	RMS	34.3	-23.2	.73	38.54	54	-15.46	-	-	151	291	V
4	* 5.451	27.29	RMS	34.5	-23.1	.73	39.42	54	-14.58	-	-	151	291	V

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

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS



Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.2	59.63	PK-U	28.3	-37.1	0	50.83	-	-	74	-23.17	-	-	333	250	H
	* 1.2	46.64	ADR	28.3	-37.1	.73	38.57	54	-15.43	-	-	-	-	333	250	H
2	* 1.584	56.74	PK-U	28.3	-36	0	49.04	-	-	74	-24.96	-	-	241	115	H
	* 1.584	52.23	ADR	28.3	-36	.73	45.26	54	-8.74	-	-	-	-	241	115	H
3	* 2.384	44.13	PK-U	32.1	-34.3	0	41.93	-	-	74	-32.07	-	-	115	185	H
	* 2.384	30.75	ADR	32.1	-34.3	.73	29.28	54	-24.72	-	-	-	-	115	185	H
5	* 1.202	54.29	PK-U	28.4	-37.1	0	45.59	-	-	74	-28.41	-	-	318	200	V
	* 1.202	42.21	ADR	28.4	-37.1	.73	34.24	54	-19.76	-	-	-	-	318	200	V
6	* 1.584	57.01	PK-U	28.3	-36	0	49.31	-	-	74	-24.69	-	-	118	106	V
	* 1.584	52.67	ADR	28.3	-36	.73	45.7	54	-8.3	-	-	-	-	118	106	V
7	* 2.354	55.06	PK-U	31.9	-34.6	0	52.36	-	-	74	-21.64	-	-	109	267	V
	* 2.355	30.35	ADR	31.9	-34.6	.73	28.38	54	-25.62	-	-	-	-	109	267	V
4	6.947	42.96	PK-U	35.7	-29.6	0	49.06	-	-	-	-	68.2	-19.14	103	109	H

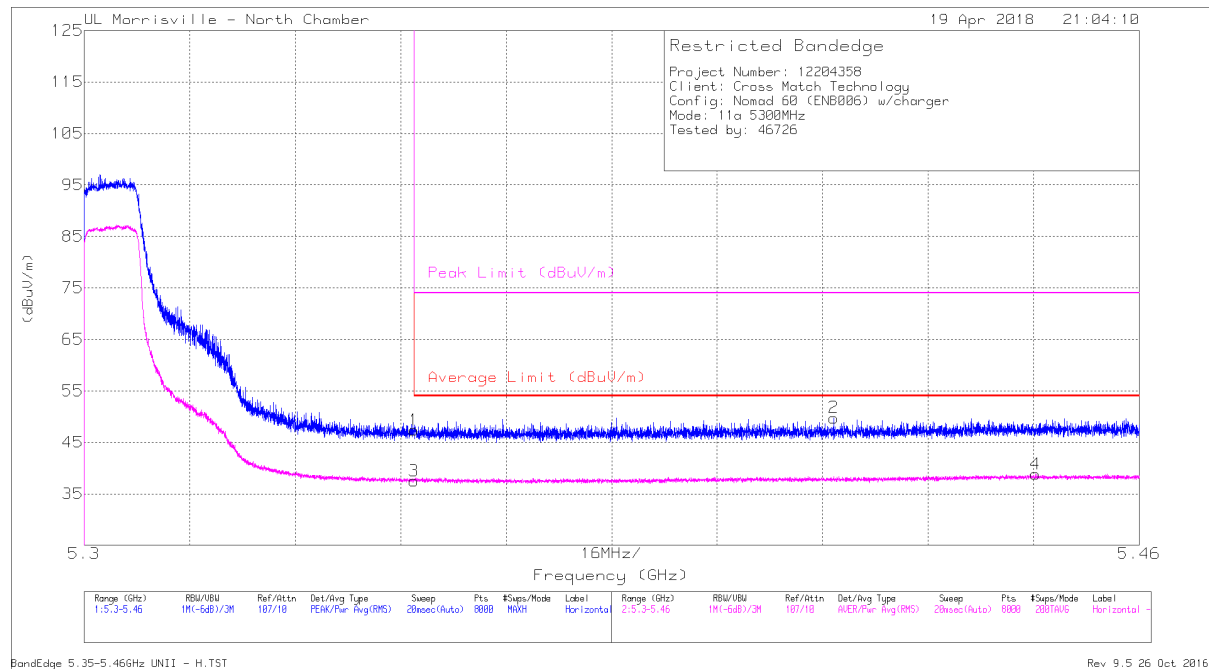
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.5. TX ABOVE 1 GHz 802.11a MODE IN THE 5.3 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



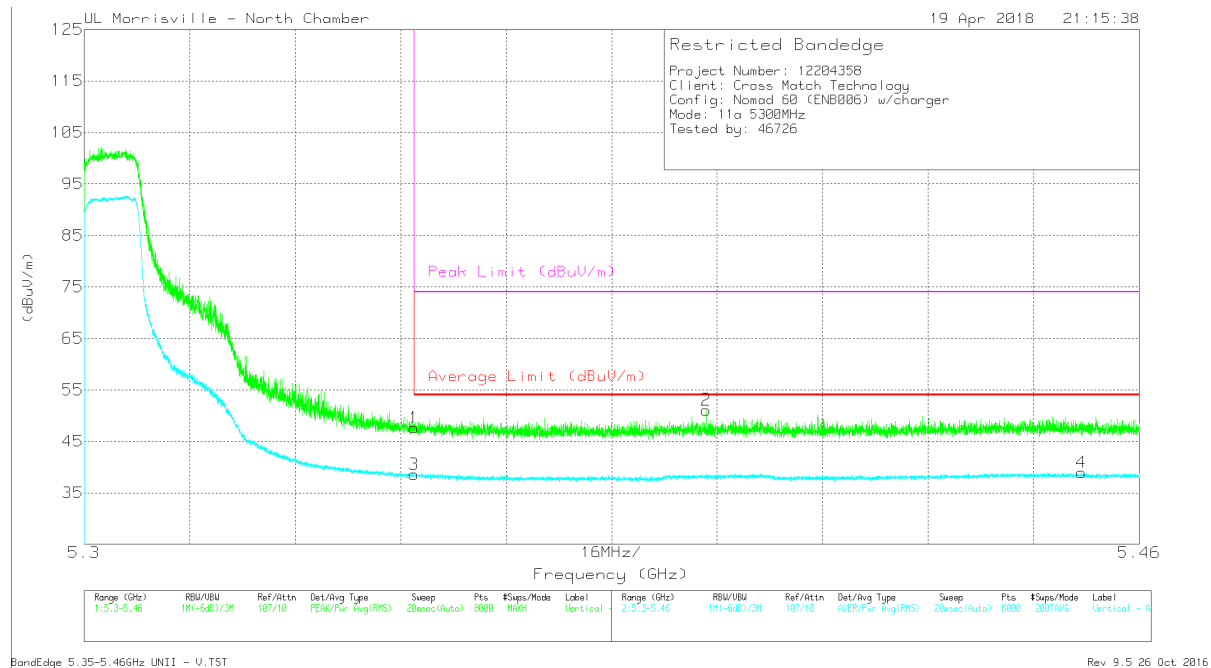
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	36.28	Pk	34.3	-23.2	0	47.38	-	-	74	-26.62	207	226	H
2	* 5.414	38.37	Pk	34.5	-23.1	0	49.77	-	-	74	-24.23	207	226	H
3	* 5.35	26.21	RMS	34.3	-23.2	.2	37.51	54	-16.49	-	-	207	226	H
4	* 5.444	27.25	RMS	34.5	-23.1	.2	38.85	54	-15.15	-	-	207	226	H

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

Pk - Peak detector

RMS - RMS detection

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



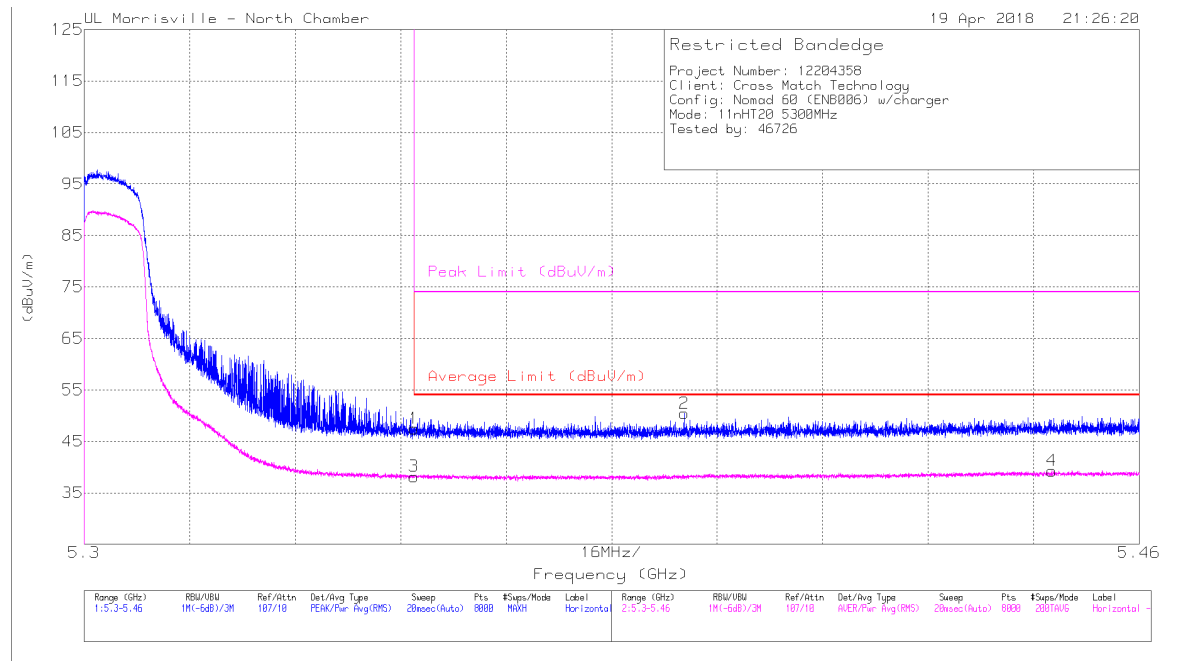
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	36.55	Pk	34.3	-23.2	0	47.65	-	-	74	-26.35	150	230	V
2	* 5.394	39.88	Pk	34.4	-23.2	0	51.08	-	-	74	-22.92	150	230	V
3	* 5.35	27.29	RMS	34.3	-23.2	.2	38.59	54	-15.41	-	-	150	230	V
4	* 5.451	27.33	RMS	34.5	-23.1	.2	38.93	54	-15.07	-	-	150	230	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



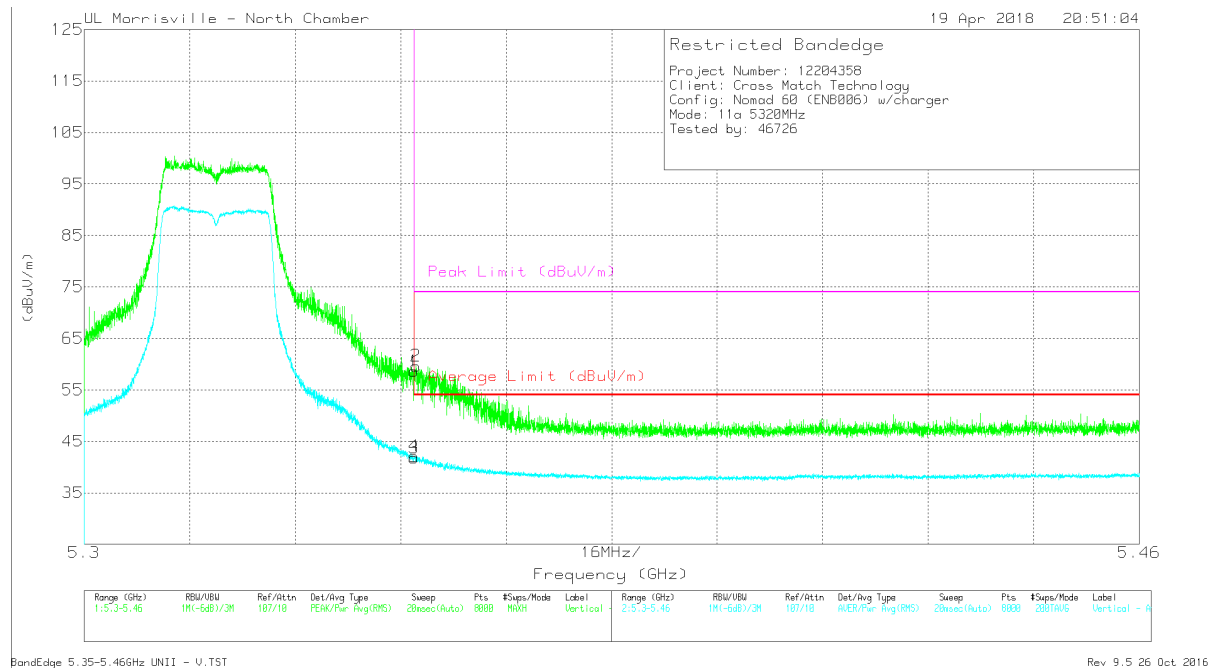
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	40.29	Pk	34.3	-23.2	0	51.39	-	-	74	-22.61	116	263	H
2	* 5.351	42.37	Pk	34.3	-23.2	0	53.47	-	-	74	-20.53	116	263	H
3	* 5.35	27.36	RMS	34.3	-23.2	.2	38.66	54	-15.34	-	-	116	263	H
4	* 5.449	27.33	RMS	34.5	-23.1	.2	38.93	54	-15.07	-	-	116	263	H

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, VERTICAL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Ftr/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	* 5.35	47.5	Pk	34.3	-23.2	0	58.6	-	-	74	-15.4	146	229	V
2	* 5.35	48.53	Pk	34.3	-23.2	0	59.63	-	-	74	-14.37	146	229	V
3	* 5.35	30.48	RMS	34.3	-23.2	.2	41.78	54	-12.22	-	-	146	229	V
4	* 5.35	30.8	RMS	34.3	-23.2	.2	42.1	54	-11.9	-	-	146	229	V

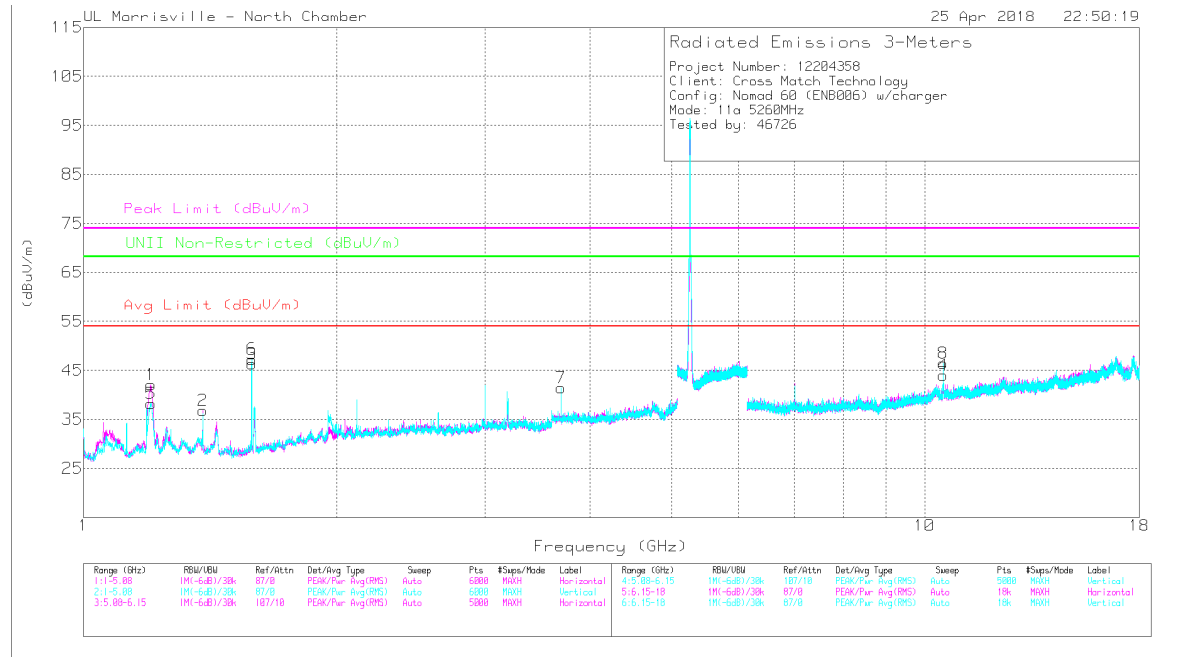
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



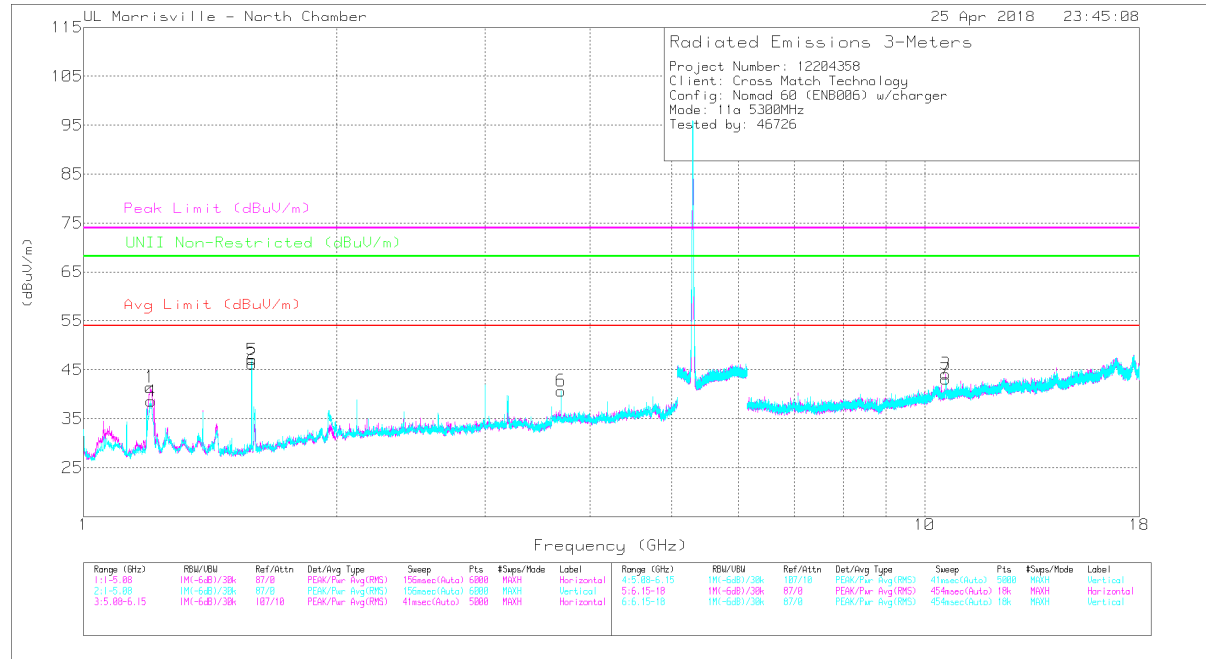
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.202	57.14	PK-U	28.4	-37.1	0	48.44	-	-	74	-25.56	-	-	332	247	H
	* 1.202	45.67	ADR	28.4	-37.1	.2	37.17	54	-16.83	-	-	-	-	332	247	H
2	* 1.386	49.58	PK-U	29.2	-36.2	0	42.58	-	-	74	-31.42	-	-	188	109	H
	* 1.386	43.79	ADR	29.2	-36.2	.2	36.99	54	-17.01	-	-	-	-	188	109	H
3	* 1.584	56.7	PK-U	28.3	-36	0	49	-	-	74	-25	-	-	241	110	H
	* 1.584	52.32	ADR	28.3	-36	.2	44.82	54	-9.18	-	-	-	-	241	110	H
5	* 1.203	53.81	PK-U	28.4	-37.1	0	45.11	-	-	74	-28.89	-	-	320	206	V
	* 1.203	41.59	ADR	28.4	-37.1	.2	33.09	54	-20.91	-	-	-	-	320	206	V
6	* 1.584	57.36	PK-U	28.3	-36	0	49.66	-	-	74	-24.34	-	-	118	106	V
	* 1.584	52.46	ADR	28.3	-36	.2	44.96	54	-9.04	-	-	-	-	118	106	V
7	* 3.696	47.7	PK-U	33.3	-32.8	0	48.2	-	-	74	-25.8	-	-	165	323	V
	* 3.696	39.8	ADR	33.3	-32.8	.2	40.5	54	-13.5	-	-	-	-	165	323	V
4	10.52	41.85	PK-U	37.5	-26.9	0	52.45	-	-	-	-	68.2	-15.75	140	145	H
8	10.52	42.53	PK-U	37.5	-26.9	0	53.13	-	-	-	-	68.2	-15.07	157	146	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL



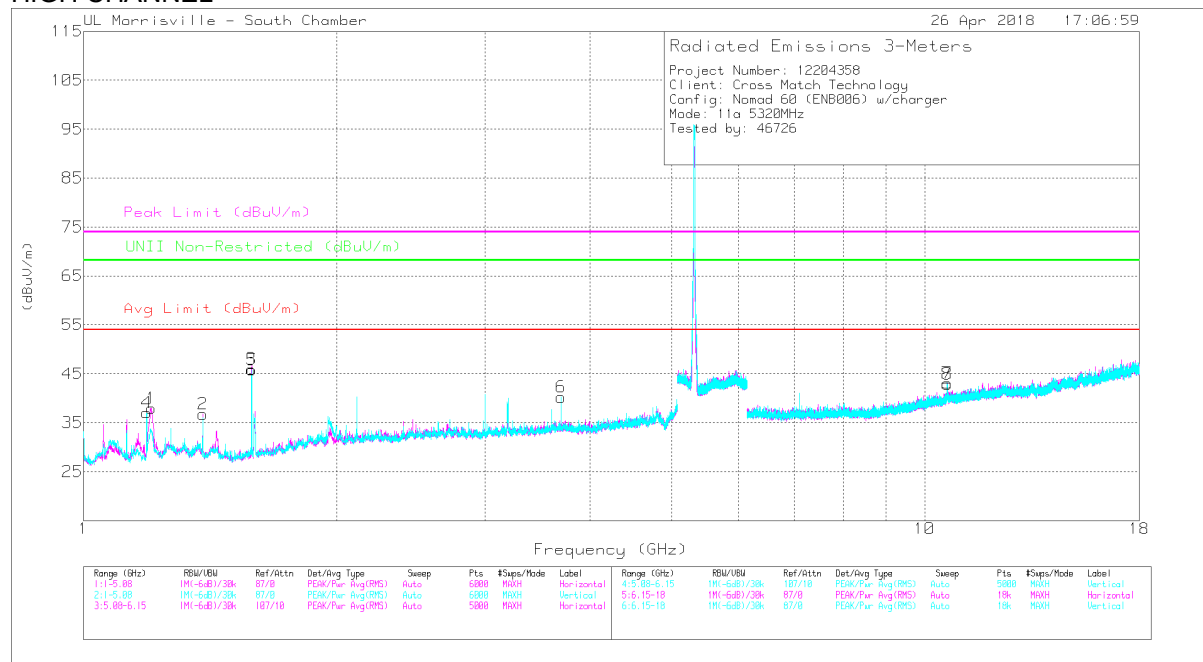
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.2	59.18	PK-U	28.3	-37.1	0	50.38	-	-	74	-23.62	-	-	332	244	H
	* 1.2	45.98	ADR	28.3	-37.1	.2	37.38	54	-16.62	-	-	-	-	332	244	H
2	* 1.584	56.13	PK-U	28.3	-36	0	48.43	-	-	74	-25.57	-	-	227	111	H
	* 1.584	51.6	ADR	28.3	-36	.2	44.1	54	-9.9	-	-	-	-	227	111	H
4	* 1.203	54.47	PK-U	28.4	-37.1	0	45.77	-	-	74	-28.23	-	-	316	197	V
	* 1.203	42.49	ADR	28.4	-37.1	.2	33.99	54	-20.01	-	-	-	-	316	197	V
5	* 1.584	57.03	PK-U	28.3	-36	0	49.33	-	-	74	-24.67	-	-	115	106	V
	* 1.584	52.44	ADR	28.3	-36	.2	44.94	54	-9.06	-	-	-	-	115	106	V
6	* 3.696	47.78	PK-U	33.3	-32.8	0	48.28	-	-	74	-25.72	-	-	155	274	V
	* 3.696	40.52	ADR	33.3	-32.8	.2	41.22	54	-12.78	-	-	-	-	155	274	V
7	* 10.6	39.67	PK-U	37.5	-25.7	0	51.47	-	-	74	-22.53	-	-	141	109	H
	* 10.6	28.7	ADR	37.5	-25.7	.2	40.7	54	-13.3	-	-	-	-	141	109	H
3	* 10.6	38.4	PK-U	37.5	-25.7	0	50.2	-	-	74	-23.8	-	-	166	256	V
	* 10.6	27.41	ADR	37.5	-25.7	.2	39.41	54	-14.59	-	-	-	-	166	256	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL



Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.203	52.87	PK-U	28.5	-35.2	0	46.17	-	-	74	-27.83	-	-	67	140	H
	* 1.203	41.27	ADR	28.5	-35.2	.2	34.77	54	-19.23	-	-	-	-	67	140	H
2	* 1.386	48.47	PK-U	28.7	-34.8	0	42.37	-	-	74	-31.63	-	-	353	249	H
	* 1.386	42.81	ADR	28.7	-34.8	.2	36.91	54	-17.09	-	-	-	-	353	249	H
3	* 1.584	55.55	PK-U	28	-34.7	0	48.85	-	-	74	-25.15	-	-	261	133	H
	* 1.584	51.01	ADR	28	-34.7	.2	44.51	54	-9.49	-	-	-	-	261	133	H
4	* 1.188	49.06	PK-U	28.2	-35.2	0	42.06	-	-	74	-31.94	-	-	65	104	V
	* 1.188	43.19	ADR	28.2	-35.2	.2	36.39	54	-17.61	-	-	-	-	65	104	V
5	* 1.584	54.83	PK-U	28	-34.7	0	48.13	-	-	74	-25.87	-	-	179	131	V
	* 1.584	49.99	ADR	28	-34.7	.2	43.49	54	-10.51	-	-	-	-	179	131	V
6	* 3.696	46.4	PK-U	33.3	-32.4	0	47.3	-	-	74	-26.7	-	-	217	247	V
	* 3.696	37.8	ADR	33.3	-32.4	.2	38.9	54	-15.1	-	-	-	-	217	247	V
7	* 10.64	38.95	PK-U	37.7	-25.3	0	51.35	-	-	74	-22.65	-	-	203	111	H
	* 10.64	27.55	ADR	37.7	-25.3	.2	40.15	54	-13.85	-	-	-	-	203	111	H
8	* 10.64	39.84	PK-U	37.7	-25.3	0	52.24	-	-	74	-21.76	-	-	225	146	V
	* 10.64	27.62	ADR	37.7	-25.3	.2	40.22	54	-13.78	-	-	-	-	225	146	V

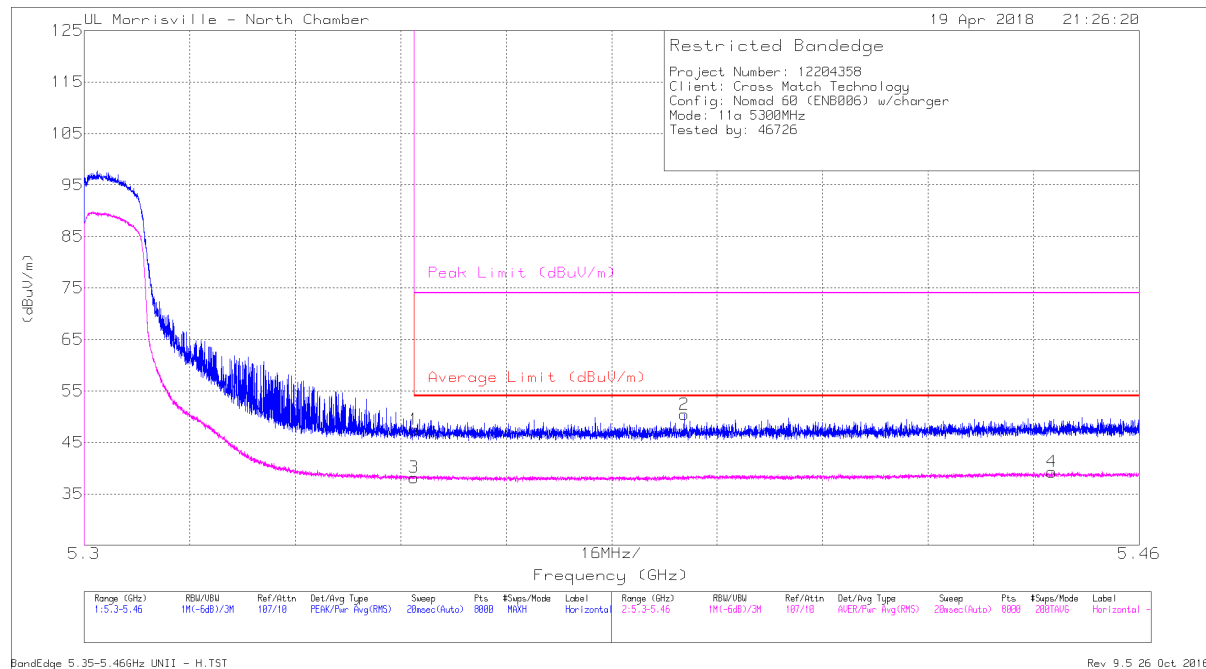
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.6. TX ABOVE 1 GHz 802.11nHT20 MODE IN THE 5.3 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



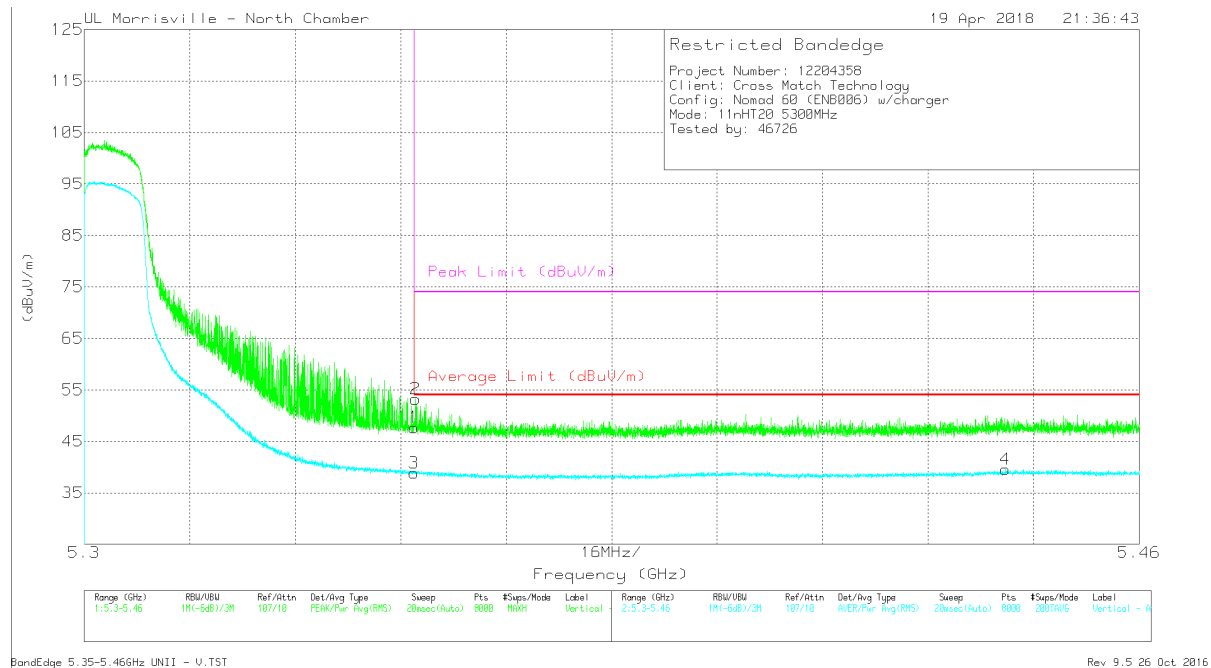
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	36.38	Pk	34.3	-23.2	0	47.48	-	-	74	-26.52	210	133	H
2	* 5.391	39.23	Pk	34.4	-23.2	0	50.43	-	-	74	-23.57	210	133	H
3	* 5.35	26.41	RMS	34.3	-23.2	.66	38.17	54	-15.83	-	-	210	133	H
4	* 5.447	27.23	RMS	34.5	-23.1	.66	39.29	54	-14.71	-	-	210	133	H

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

Pk - Peak detector

RMS - RMS detection

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



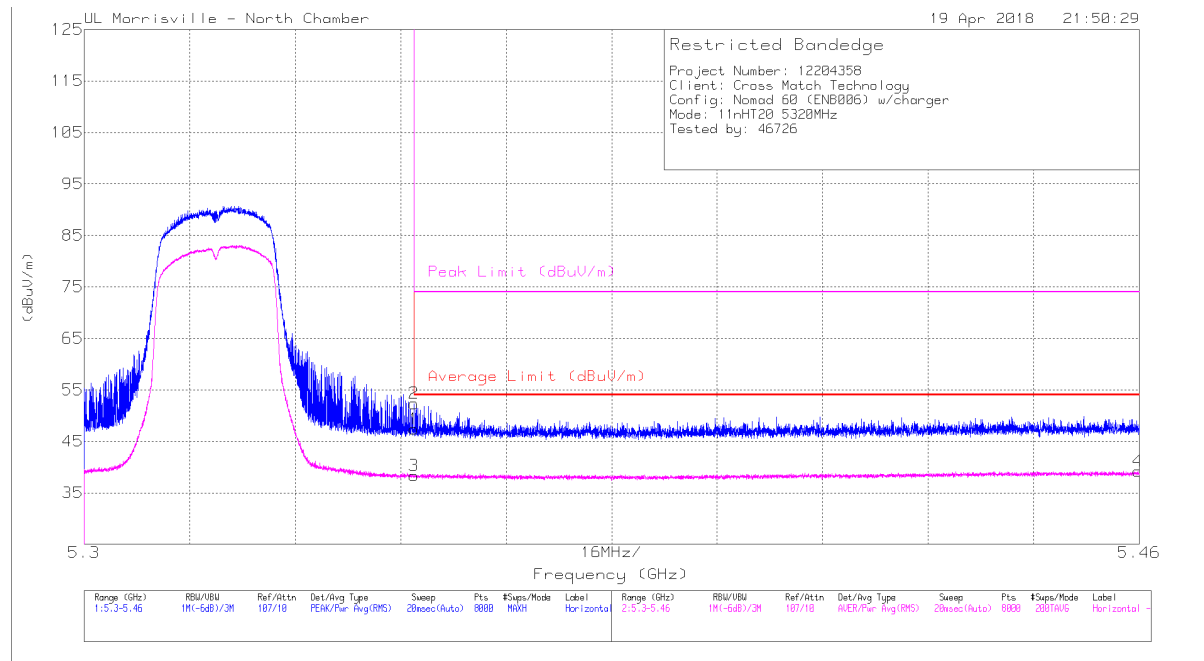
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	36.57	Pk	34.3	-23.2	0	47.67	-	-	74	-26.33	166	278	V
2	* 5.35	42.12	Pk	34.3	-23.2	0	53.22	-	-	74	-20.78	166	278	V
3	* 5.35	27.09	RMS	34.3	-23.2	.66	38.85	54	-15.15	-	-	166	278	V
4	* 5.44	27.39	RMS	34.5	-23	.66	39.55	54	-14.45	-	-	166	278	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



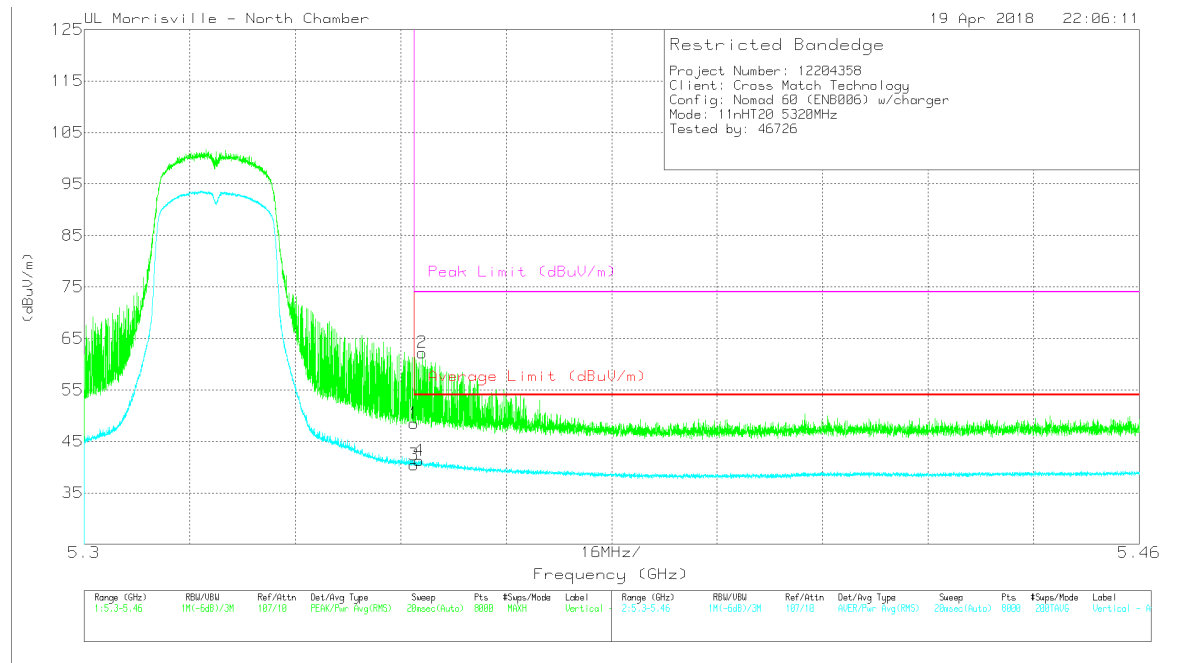
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	36.26	Pk	34.3	-23.2	0	47.36	-	-	74	-26.64	271	275	H
2	* 5.35	41.25	Pk	34.3	-23.2	0	52.35	-	-	74	-21.65	271	275	H
3	* 5.35	26.56	RMS	34.3	-23.2	.66	38.32	54	-15.68	-	-	271	275	H
4	* 5.46	27.15	RMS	34.5	-23.1	.66	39.21	54	-14.79	-	-	271	275	H

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, VERTICAL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Ftr/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	* 5.35	37.41	Pk	34.3	-23.2	0	48.51	-	-	74	-25.49	158	174	V
2	* 5.351	51.13	Pk	34.3	-23.2	0	62.23	-	-	74	-11.77	158	174	V
3	* 5.35	28.7	RMS	34.3	-23.2	.66	40.46	54	-13.54	-	-	158	174	V
4	* 5.351	29.5	RMS	34.3	-23.2	.66	41.26	54	-12.74	-	-	158	174	V

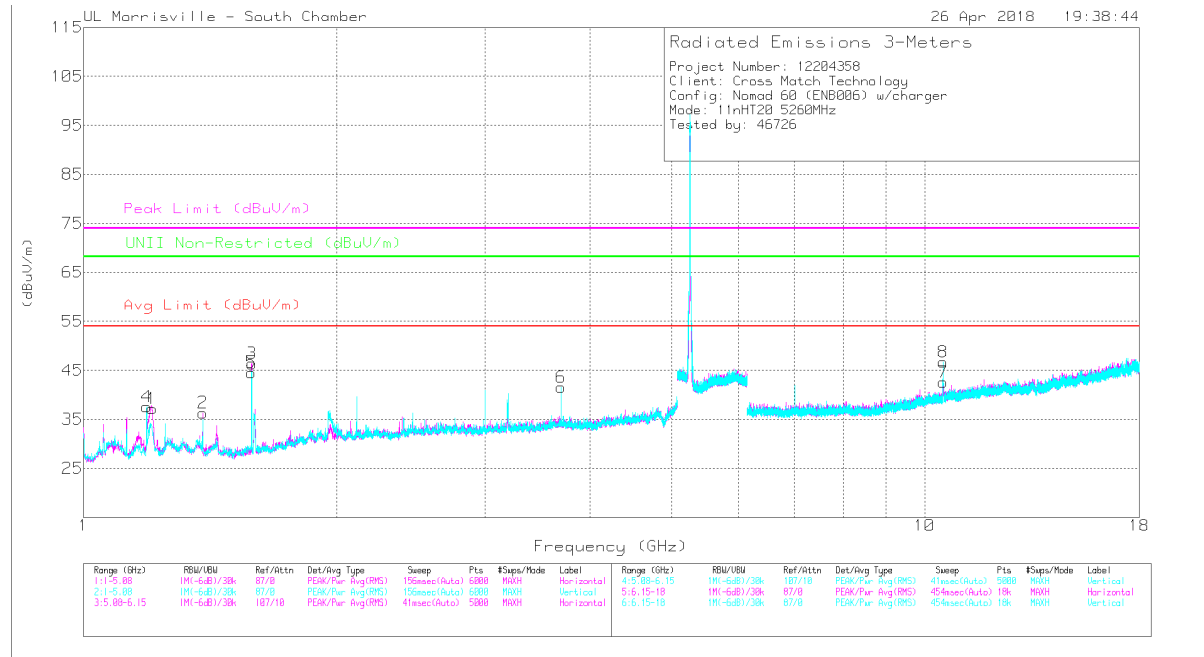
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



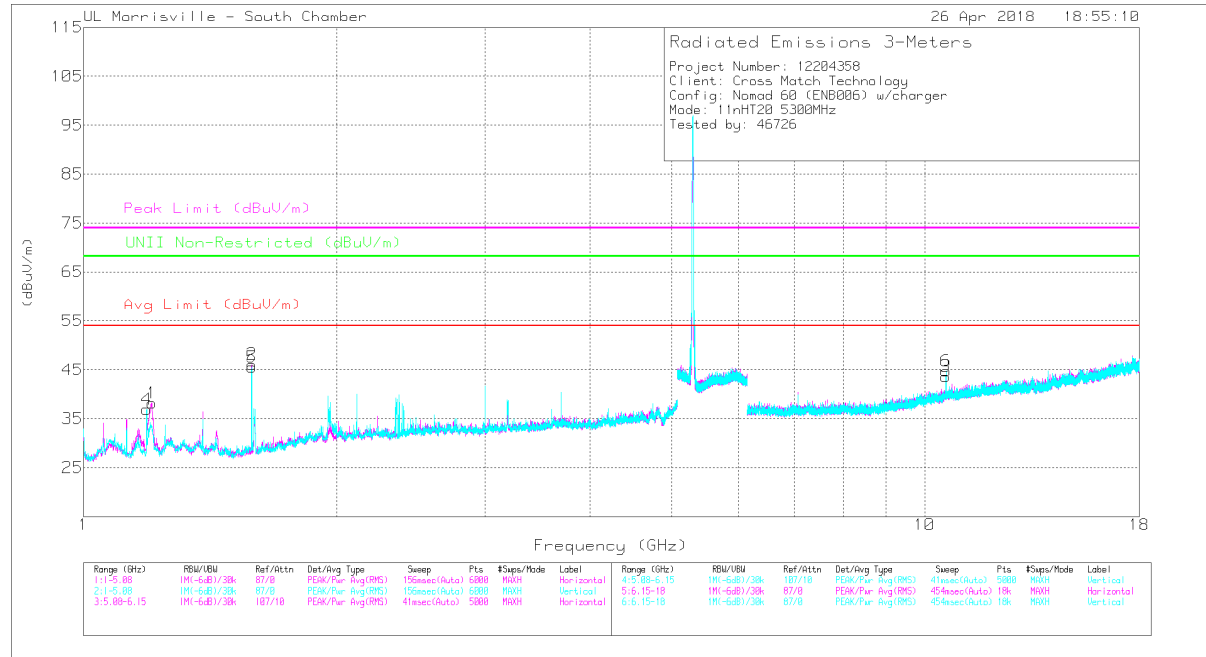
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.206	52.4	PK-U	28.6	-35.2	0	45.8	-	-	74	-28.2	-	-	278	337	H
	* 1.206	39.91	ADR	28.6	-35.2	.66	33.97	54	-20.03	-	-	-	-	278	337	H
2	* 1.386	47.9	PK-U	28.7	-34.8	0	41.8	-	-	74	-32.2	-	-	354	306	H
	* 1.386	42.89	ADR	28.7	-34.8	.66	37.45	54	-16.55	-	-	-	-	354	306	H
3	* 1.584	55.4	PK-U	28	-34.7	0	48.7	-	-	74	-25.3	-	-	263	102	H
	* 1.584	51.01	ADR	28	-34.7	.66	44.97	54	-9.03	-	-	-	-	263	102	H
4	* 1.188	49.18	PK-U	28.2	-35.2	0	42.18	-	-	74	-31.82	-	-	66	111	V
	* 1.188	42.71	ADR	28.2	-35.2	.66	36.37	54	-17.63	-	-	-	-	66	111	V
5	* 1.584	54.66	PK-U	28	-34.7	0	47.96	-	-	74	-26.04	-	-	178	103	V
	* 1.584	50.03	ADR	28	-34.7	.66	43.99	54	-10.01	-	-	-	-	178	103	V
6	* 3.696	45.99	PK-U	33.3	-32.4	0	46.89	-	-	74	-27.11	-	-	237	282	V
	* 3.696	38.4	ADR	33.3	-32.4	.66	39.96	54	-14.04	-	-	-	-	237	282	V
8	10.519	40.51	PK-U	37.5	-25.2	0	52.81	-	-	-	-	68.2	-15.39	205	115	H
	10.519	27.06	ADR	37.5	-25.2	.66	40.02	-	-	-	-	-	-	205	115	H
7	10.519	42.56	PK-U	37.5	-25.2	0	54.86	-	-	-	-	68.2	-13.34	229	103	V
	10.519	29.47	ADR	37.5	-25.2	.66	42.43	-	-	-	-	-	-	229	103	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL



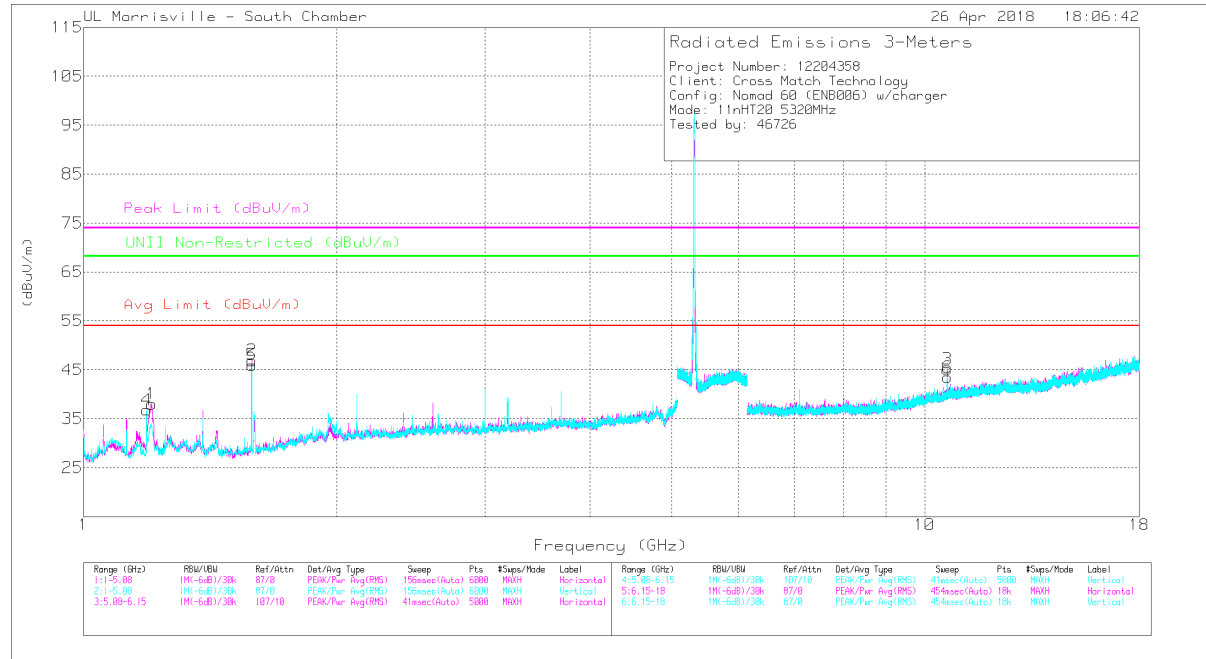
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.205	52.41	PK-U	28.5	-35.2	0	45.71	-	-	74	-28.29	-	-	277	334	H
	* 1.205	40.37	ADR	28.5	-35.2	.66	34.33	54	-19.67	-	-	-	-	277	334	H
2	* 1.584	55.38	PK-U	28	-34.7	0	48.68	-	-	74	-25.32	-	-	259	102	H
	* 1.584	50.96	ADR	28	-34.7	.66	44.92	54	-9.08	-	-	-	-	259	102	H
4	* 1.188	49.22	PK-U	28.2	-35.2	0	42.22	-	-	74	-31.78	-	-	64	101	V
	* 1.188	43.06	ADR	28.2	-35.2	.66	36.72	54	-17.28	-	-	-	-	64	101	V
5	* 1.584	54.66	PK-U	28	-34.7	0	47.96	-	-	74	-26.04	-	-	176	106	V
	* 1.584	49.88	ADR	28	-34.7	.66	43.84	54	-10.16	-	-	-	-	176	106	V
6	* 10.604	39.55	PK-U	37.7	-25	0	52.25	-	-	74	-21.75	-	-	225	109	V
	* 10.604	26.87	ADR	37.7	-25	.66	40.23	54	-13.77	-	-	-	-	225	109	V
3	10.6	39.23	PK-U	37.7	-25	0	51.93	-	-	-	-	68.2	-16.27	204	101	H
	10.6	28.22	ADR	37.7	-25	.66	41.58	-	-	-	-	-	-	204	101	H

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL



Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.204	52.43	PK-U	28.5	-35.2	0	45.73	-	-	74	-28.27	-	-	274	260	H
	* 1.204	40.43	ADR	28.5	-35.2	.2	33.93	54	-20.07	-	-	-	-	274	260	H
2	* 1.584	55.51	PK-U	28	-34.7	0	48.81	-	-	74	-25.19	-	-	263	104	H
	* 1.584	51.03	ADR	28	-34.7	.2	44.53	54	-9.47	-	-	-	-	263	104	H
4	* 1.188	49.27	PK-U	28.2	-35.2	0	42.27	-	-	74	-31.73	-	-	66	104	V
	* 1.188	42.96	ADR	28.2	-35.2	.2	36.16	54	-17.84	-	-	-	-	66	104	V
5	* 1.584	54.89	PK-U	28	-34.7	0	48.19	-	-	74	-25.81	-	-	180	134	V
	* 1.584	49.93	ADR	28	-34.7	.2	43.43	54	-10.57	-	-	-	-	180	134	V
3	* 10.639	38.71	PK-U	37.7	-25.3	0	51.11	-	-	74	-22.89	-	-	221	152	H
	* 10.639	25.99	ADR	37.7	-25.3	.2	38.59	54	-15.41	-	-	-	-	221	152	H
6	* 10.644	39.18	PK-U	37.7	-25.3	0	51.58	-	-	74	-22.42	-	-	220	102	V
	* 10.644	26.33	ADR	37.7	-25.3	.2	38.93	54	-15.07	-	-	-	-	220	102	V

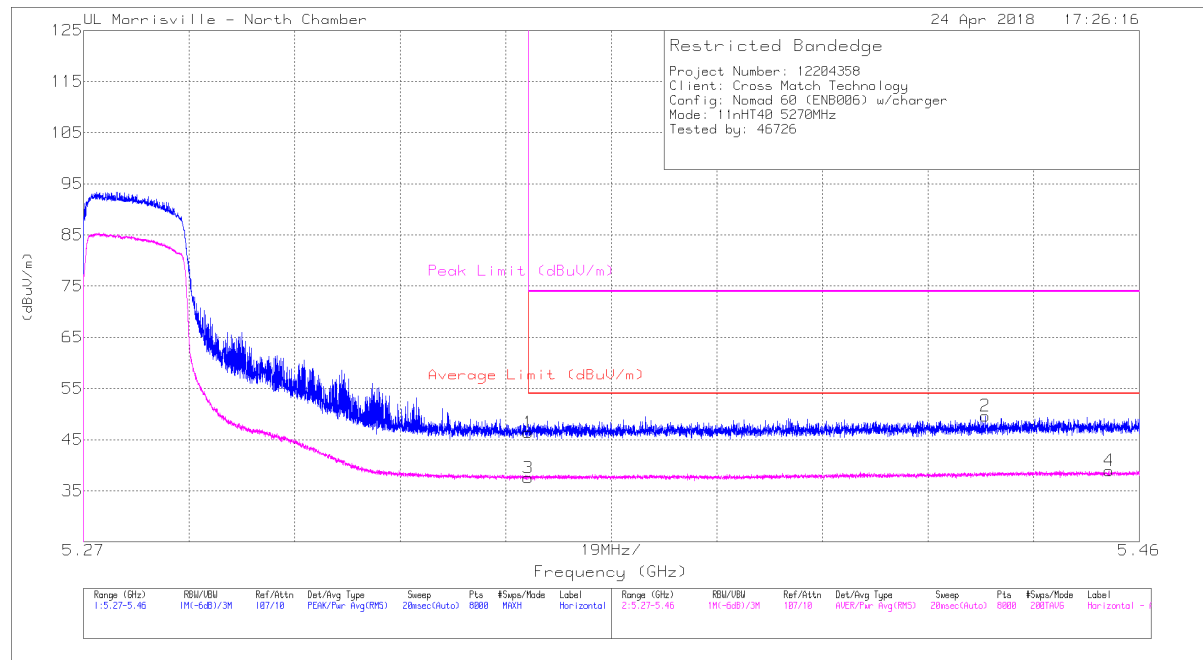
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.7. TX ABOVE 1 GHz 802.11nHT40 MODE IN THE 5.3 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



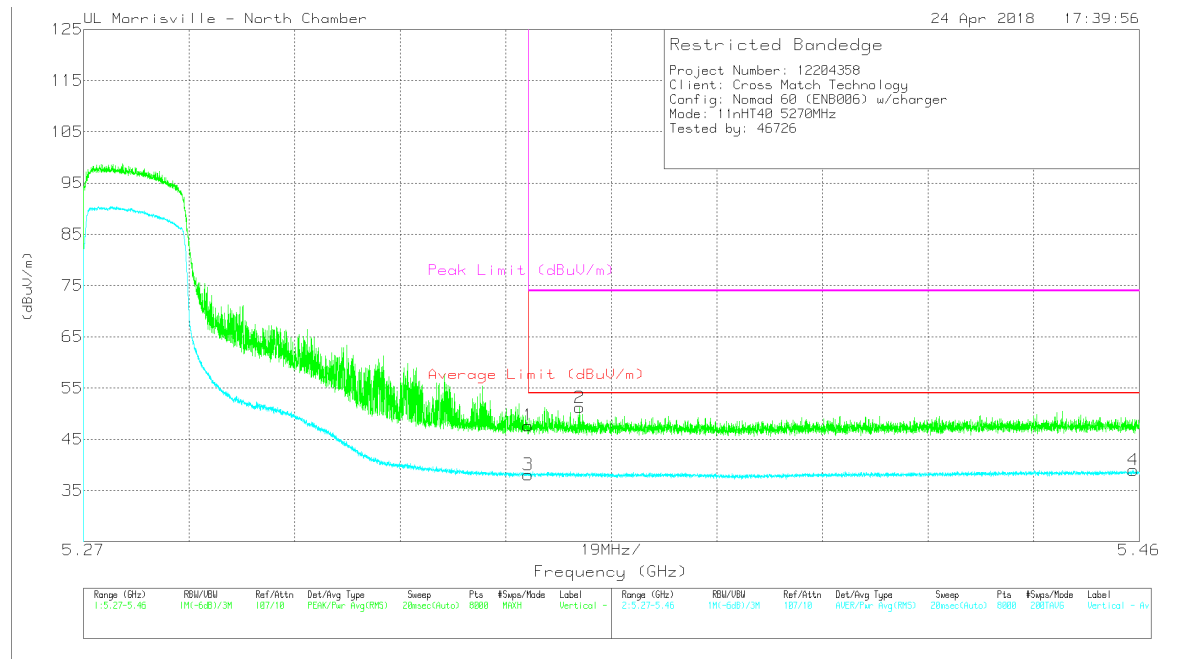
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.432	38.24	Pk	34.5	-23.1	0	49.64	-	-	74	-24.36	26	133	H
4	* 5.455	27.17	RMS	34.5	-23.1	.38	38.95	54	-15.05	-	-	26	133	H
1	5.35	35.31	Pk	34.3	-23.2	0	46.41	-	-	74	-27.59	26	133	H
3	5.35	26.04	RMS	34.3	-23.2	.38	37.52	54	-16.48	-	-	26	133	H

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

Pk - Peak detector

RMS - RMS detection

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



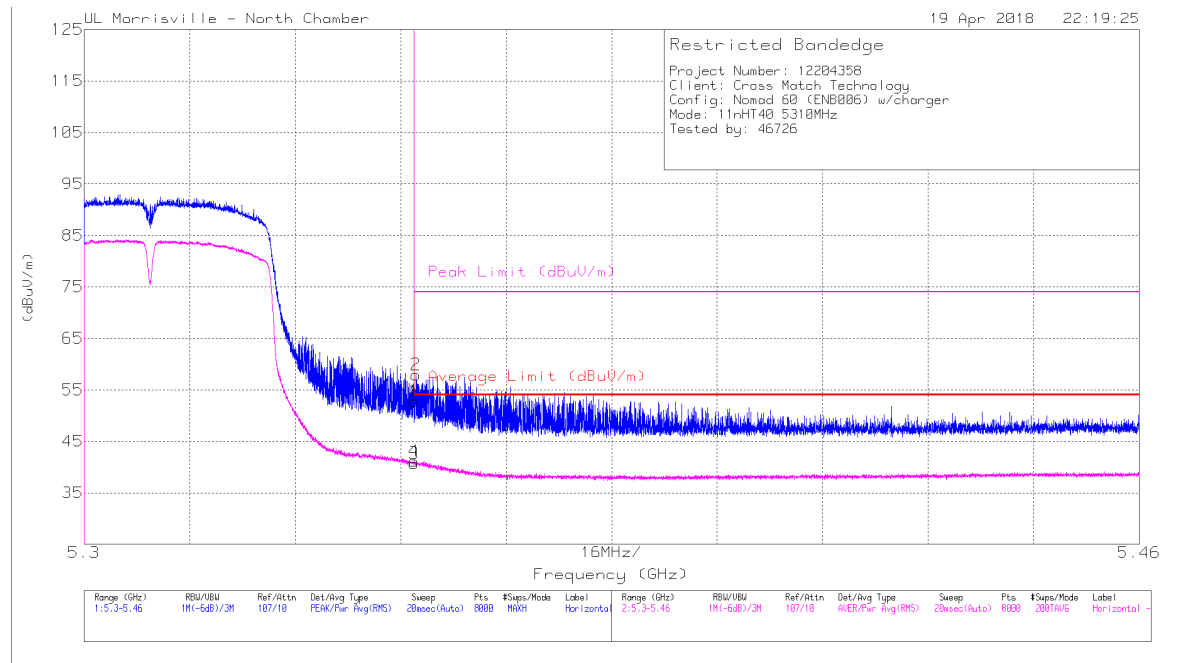
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.359	39.99	Pk	34.4	-23.2	0	51.19	-	-	74	-22.81	356	175	V
4	* 5.459	27.21	RMS	34.5	-23.1	.38	38.99	54	-15.01	-	-	356	175	V
1	5.35	36.6	Pk	34.3	-23.2	0	47.7	-	-	74	-26.3	356	175	V
3	5.35	26.62	RMS	34.3	-23.2	.38	38.1	54	-15.9	-	-	356	175	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



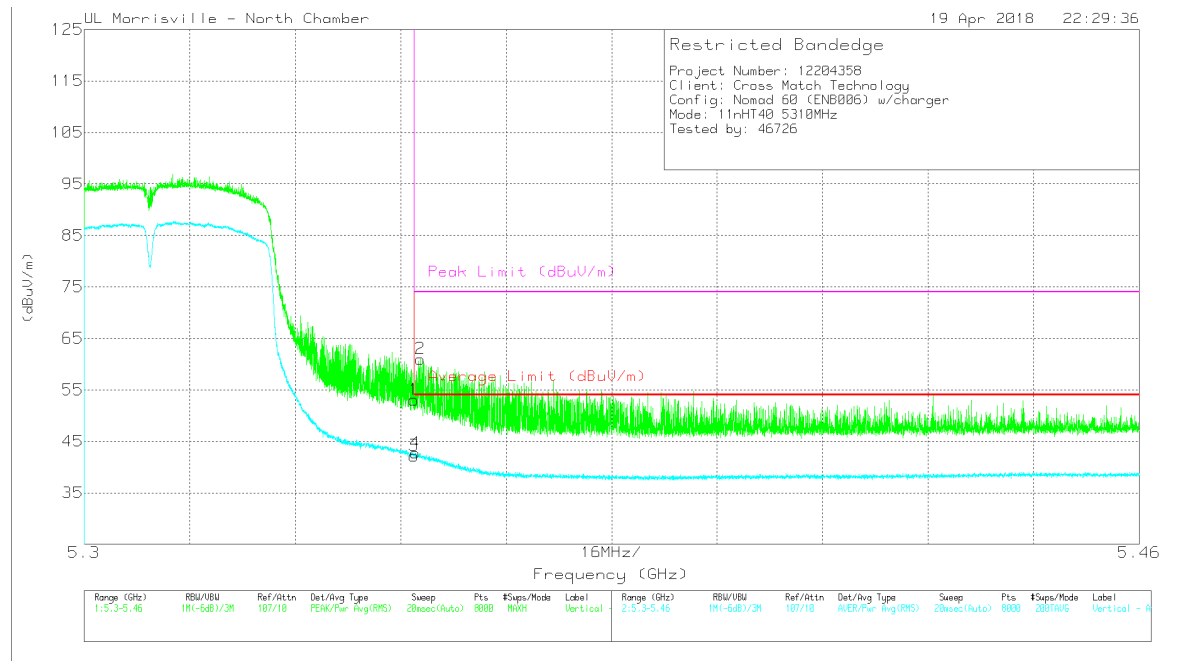
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	41.66	Pk	34.3	-23.2	0	52.76	-	-	74	-21.24	186	147	H
2	* 5.35	46.84	Pk	34.3	-23.2	0	57.94	-	-	74	-16.06	186	147	H
3	* 5.35	29.21	RMS	34.3	-23.2	.38	40.69	54	-13.31	-	-	186	147	H
4	* 5.35	29.67	RMS	34.3	-23.2	.38	41.15	54	-12.85	-	-	186	147	H

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, VERTICAL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (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	* 5.35	41.98	Pk	34.3	-23.2	0	53.08	-	-	74	-20.92	138	353	V
2	* 5.351	49.91	Pk	34.3	-23.2	0	61.01	-	-	74	-12.99	138	353	V
3	* 5.35	30.74	RMS	34.3	-23.2	.38	42.22	54	-11.78	-	-	138	353	V
4	* 5.35	31.25	RMS	34.3	-23.2	.38	42.73	54	-11.27	-	-	138	353	V

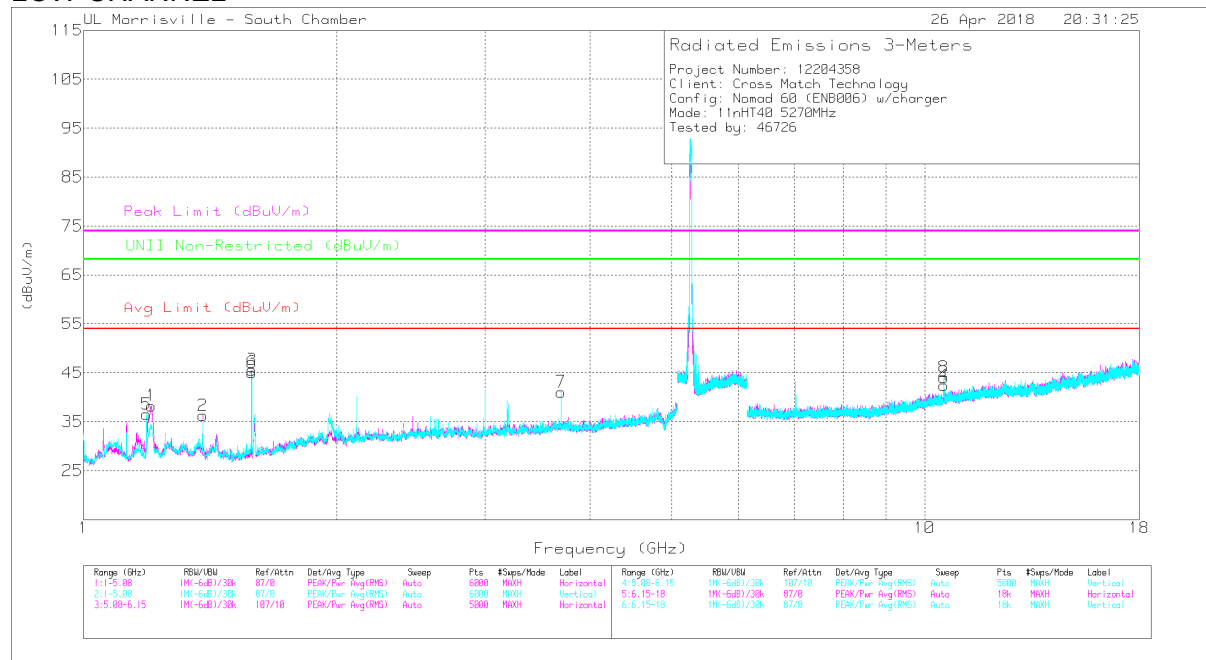
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.203	52.88	PK-U	28.5	-35.2	0	46.18	-	-	74	-27.82	-	-	300	335	H
	* 1.204	41.17	ADR	28.5	-35.2	.38	34.85	54	-19.15	-	-	-	-	300	335	H
2	* 1.386	48.28	PK-U	28.7	-34.8	0	42.18	-	-	74	-31.82	-	-	351	300	H
	* 1.386	43.02	ADR	28.7	-34.8	.38	37.3	54	-16.7	-	-	-	-	351	300	H
3	* 1.584	55.5	PK-U	28	-34.7	0	48.8	-	-	74	-25.2	-	-	262	132	H
	* 1.584	51.1	ADR	28	-34.7	.38	44.78	54	-9.22	-	-	-	-	262	132	H
5	* 1.188	49.69	PK-U	28.2	-35.2	0	42.69	-	-	74	-31.31	-	-	62	103	V
	* 1.188	43.03	ADR	28.2	-35.2	.38	36.41	54	-17.59	-	-	-	-	62	103	V
6	* 1.584	54.82	PK-U	28	-34.7	0	48.12	-	-	74	-25.88	-	-	176	103	V
	* 1.584	50.06	ADR	28	-34.7	.38	43.74	54	-10.26	-	-	-	-	176	103	V
7	* 3.696	45.73	PK-U	33.3	-32.4	0	46.63	-	-	74	-27.37	-	-	237	237	V
	* 3.696	37.62	ADR	33.3	-32.4	.38	38.9	54	-15.1	-	-	-	-	237	237	V
4	10.54	38.09	PK-U	37.6	-25.1	0	50.59	-	-	-	-	68.2	-17.61	203	113	H
8	10.541	37.14	PK-U	37.6	-25.1	0	49.64	-	-	-	-	68.2	-18.56	209	183	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

UL Morrisville - South Chamber

26 Apr 2018 21:27:53

Radiated Emissions 3-Meters

Project Number: 12204358
 Client: Cross Match Technology
 Config: Nomad 60 (EN6006) w/charger
 Made: 11nHT40 5310MHz
 Tested by: 46726

Peak Limit (dBuV/m)

UNII Non-Restricted (dBuV/m)

Avg Limit (dBuV/m)

40 20

Frequency (GHz)

Range (GHz)	RBW/EBW	Ref/Attn	Det/Avg Type	Sweep	Fts	#Sps/Mode	Label
1:1-5.00	1M/-6dB/30k	07/0	PEAK/Pwr Avg(RMS)	150msec(Auto)	6000	NR01	Horizontal
2:1-5.00	1M/-6dB/30k	07/0	PEAK/Pwr Avg(RMS)	150msec(Auto)	6000	NR01	Horizontal
3:5.00-6.15	1M/-6dB/30k	107/10	PEAK/Pwr Avg(RMS)	41msec(Auto)	5000	NR01	Horizontal

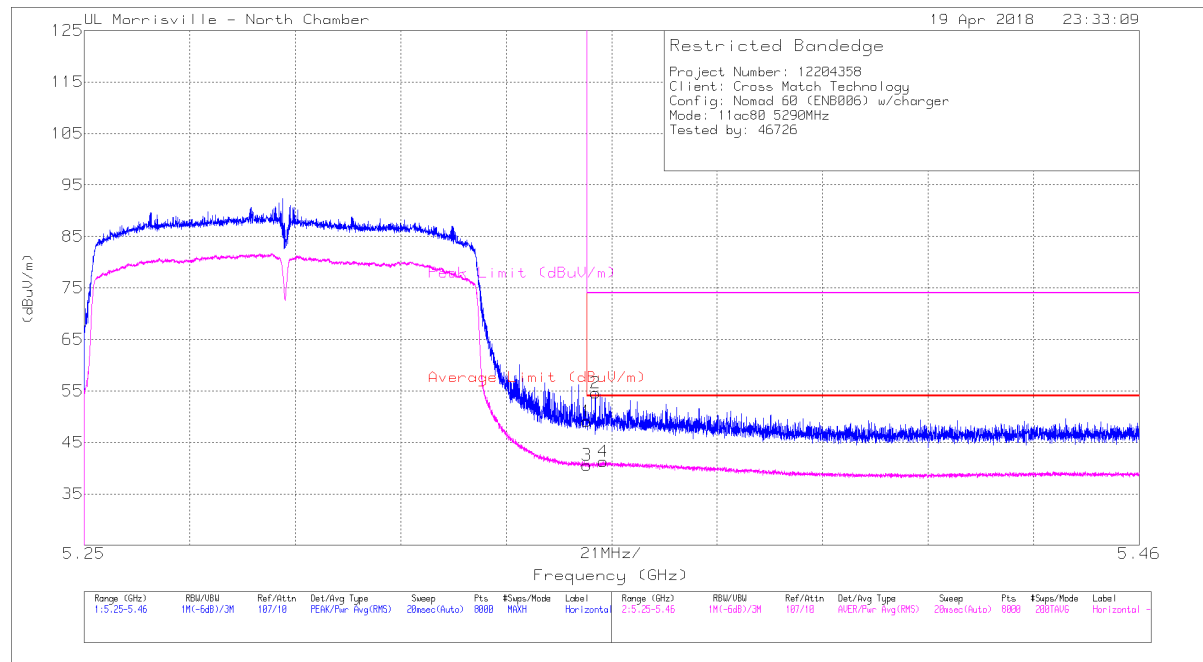
Range (GHz)	RBW/EBW	Ref/Attn	Det/Avg Type	Sweep	Fts	#Sps/Mode	Label
4:5.00-6.15	1M/-6dB/30k	107/10	PEAK/Pwr Avg(RMS)	41msec(Auto)	5000	NR01	Horizontal
5:6.15-10	1M/-6dB/30k	07/0	PEAK/Pwr Avg(RMS)	454msec(Auto)	10k	NR01	Horizontal
6:6.15-18	1M/-6dB/30k	07/0	PEAK/Pwr Avg(RMS)	454msec(Auto)	10k	NR01	Horizontal

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non- Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.203	52.45	PK-U	28.5	-35.2	0	45.75	-	-	74	-28.25	-	-	282	248	H
	* 1.203	40.82	ADR	28.5	-35.2	.38	34.5	54	-19.5	-	-	-	-	282	248	H
2	* 1.386	48.54	PK-U	28.7	-34.8	0	42.44	-	-	74	-31.56	-	-	356	300	H
	* 1.386	43.3	ADR	28.7	-34.8	.38	37.58	54	-16.42	-	-	-	-	356	300	H
3	* 1.584	55.43	PK-U	28	-34.7	0	48.73	-	-	74	-25.27	-	-	259	130	H
	* 1.584	50.86	ADR	28	-34.7	.38	44.54	54	-9.46	-	-	-	-	259	130	H
4	* 1.188	49.07	PK-U	28.2	-35.2	0	42.07	-	-	74	-31.93	-	-	61	104	V
	* 1.188	42.99	ADR	28.2	-35.2	.38	36.37	54	-17.63	-	-	-	-	61	104	V
5	* 1.584	54.93	PK-U	28	-34.7	0	48.23	-	-	74	-25.77	-	-	177	102	V
	* 1.584	50.1	ADR	28	-34.7	.38	43.78	54	-10.22	-	-	-	-	177	102	V
6	* 3.696	46.57	PK-U	33.3	-32.4	0	47.47	-	-	74	-26.53	-	-	237	334	V
	* 3.696	38.35	ADR	33.3	-32.4	.38	39.63	54	-14.37	-	-	-	-	237	334	V

ADR - U-NII AD primary method, RMS average

10.8. TX ABOVE 1 GHz 802.11acVHT80 MODE IN THE 5.3 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



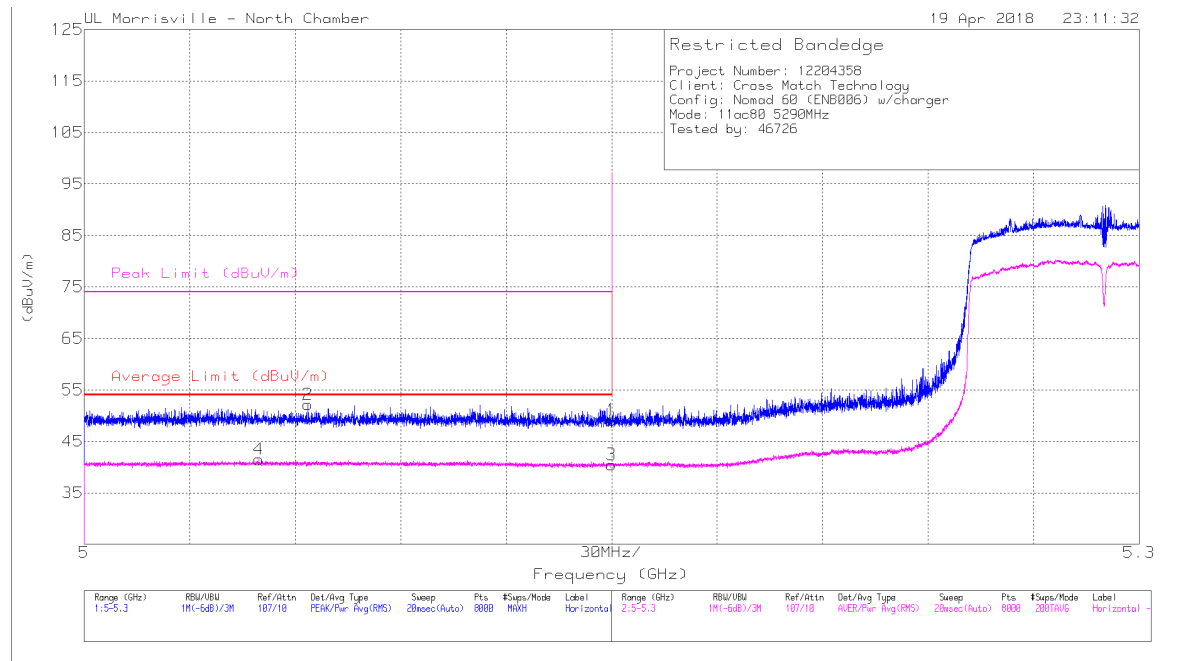
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	38.01	Pk	34.3	-23.2	0	49.11	-	-	74	-24.89	195	189	H
2	* 5.352	43.41	Pk	34.4	-23.2	0	54.61	-	-	74	-19.39	195	189	H
3	* 5.35	28.74	RMS	34.3	-23.2	.73	40.57	54	-13.43	-	-	195	189	H
4	* 5.353	29.33	RMS	34.4	-23.2	.73	41.26	54	-12.74	-	-	195	189	H

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

Pk - Peak detector

RMS - RMS detection

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



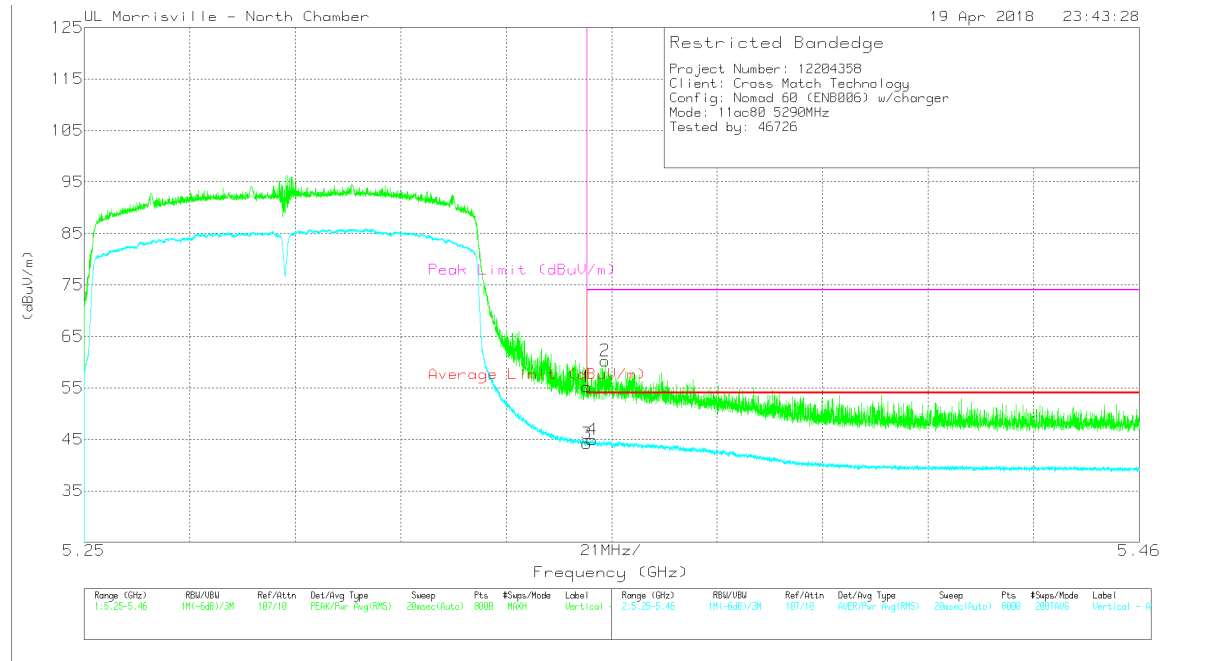
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	37.62	Pk	34.2	-22.7	0	49.12	-	-	74	-24.88	197	116	H
2	* 5.064	40.63	Pk	34.1	-22.6	0	52.13	-	-	74	-21.87	197	116	H
3	* 5.15	28.23	RMS	34.2	-22.7	.73	40.46	54	-13.54	-	-	197	116	H
4	* 5.05	29.25	RMS	34	-22.5	.73	41.48	54	-12.52	-	-	197	116	H

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



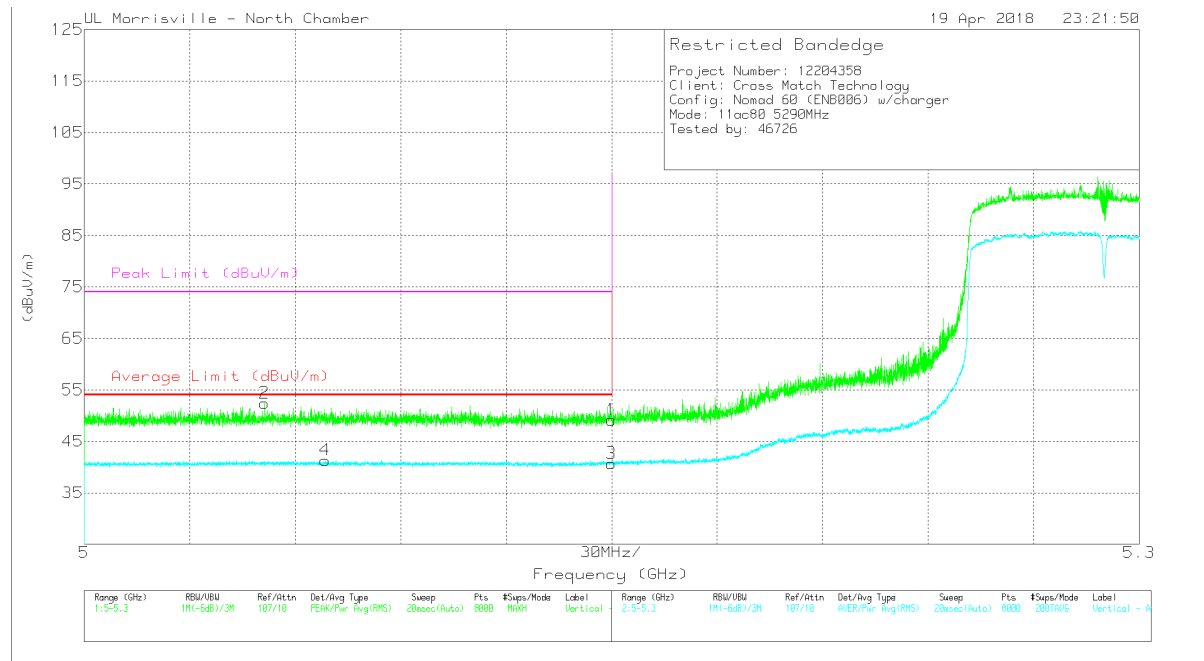
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	44.08	Pk	34.3	-23.2	0	55.18	-	-	74	-18.82	166	261	V
2	* 5.354	49.04	Pk	34.4	-23.2	0	60.24	-	-	74	-13.76	166	261	V
3	* 5.35	32.4	RMS	34.3	-23.2	.73	44.23	54	-9.77	-	-	166	261	V
4	* 5.351	33.13	RMS	34.3	-23.2	.73	44.96	54	-9.04	-	-	166	261	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL, VERTICAL)



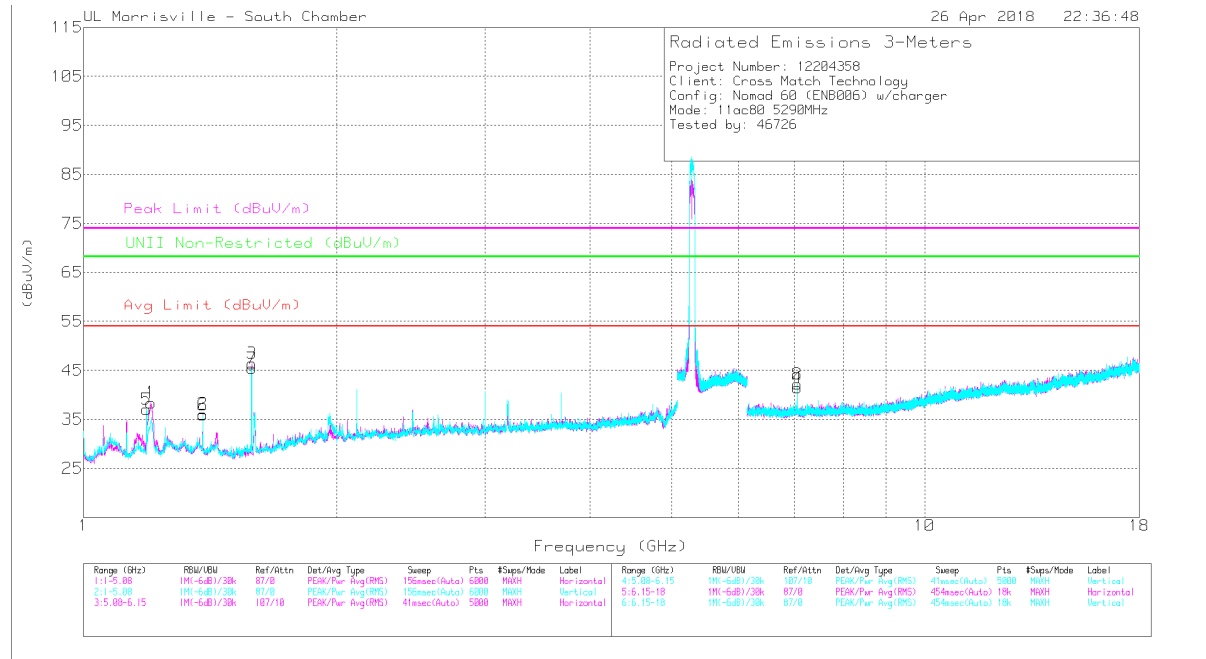
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	37.69	Pk	34.2	-22.7	0	49.19	-	-	74	-24.81	152	190	V
2	* 5.051	40.95	Pk	34	-22.5	0	52.45	-	-	74	-21.55	152	190	V
3	* 5.15	28.46	RMS	34.2	-22.7	.73	40.69	54	-13.31	-	-	152	190	V
4	* 5.069	29.12	RMS	34.1	-22.6	.73	41.35	54	-12.65	-	-	152	190	V

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

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS



Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.204	52.22	PK-U	28.5	-35.2	0	45.52	-	-	74	-28.48	-	-	289	341	H
	*** 1.203	40.3	ADR	28.5	-35.2	.73	34.33	54	-19.67	-	-	-	-	289	341	H
2	*** 1.386	48.25	PK-U	28.7	-34.8	0	42.15	-	-	74	-31.85	-	-	360	301	H
	*** 1.386	43.26	ADR	28.7	-34.8	.73	37.89	54	-16.11	-	-	-	-	360	301	H
3	*** 1.584	55.61	PK-U	28	-34.7	0	48.91	-	-	74	-25.09	-	-	263	132	H
	*** 1.584	51.17	ADR	28	-34.7	.73	45.2	54	-8.8	-	-	-	-	263	132	H
5	*** 1.188	48.86	PK-U	28.2	-35.2	0	41.86	-	-	74	-32.14	-	-	65	119	V
	*** 1.188	42.93	ADR	28.2	-35.2	.73	36.66	54	-17.34	-	-	-	-	65	119	V
6	*** 1.386	46.29	PK-U	28.7	-34.8	0	40.19	-	-	74	-33.81	-	-	99	103	V
	*** 1.386	39.83	ADR	28.7	-34.8	.73	34.46	54	-19.54	-	-	-	-	99	103	V
7	*** 1.584	54.6	PK-U	28	-34.7	0	47.9	-	-	74	-26.1	-	-	180	101	V
	*** 1.584	49.81	ADR	28	-34.7	.73	43.84	54	-10.16	-	-	-	-	180	101	V
4	7.053	41.48	PK-U	35.5	-28.6	0	48.38	-	-	-	-	68.2	-19.82	213	207	H
8	7.053	41.32	PK-U	35.5	-28.6	0	48.22	-	-	-	-	68.2	-19.98	245	130	V

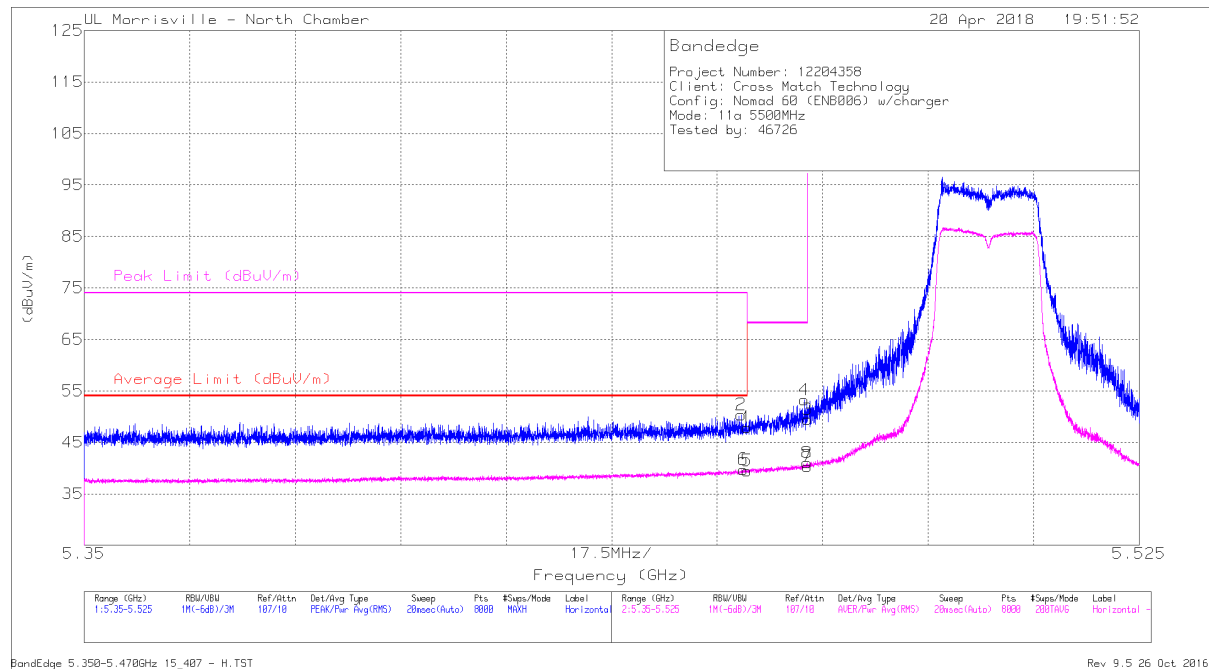
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

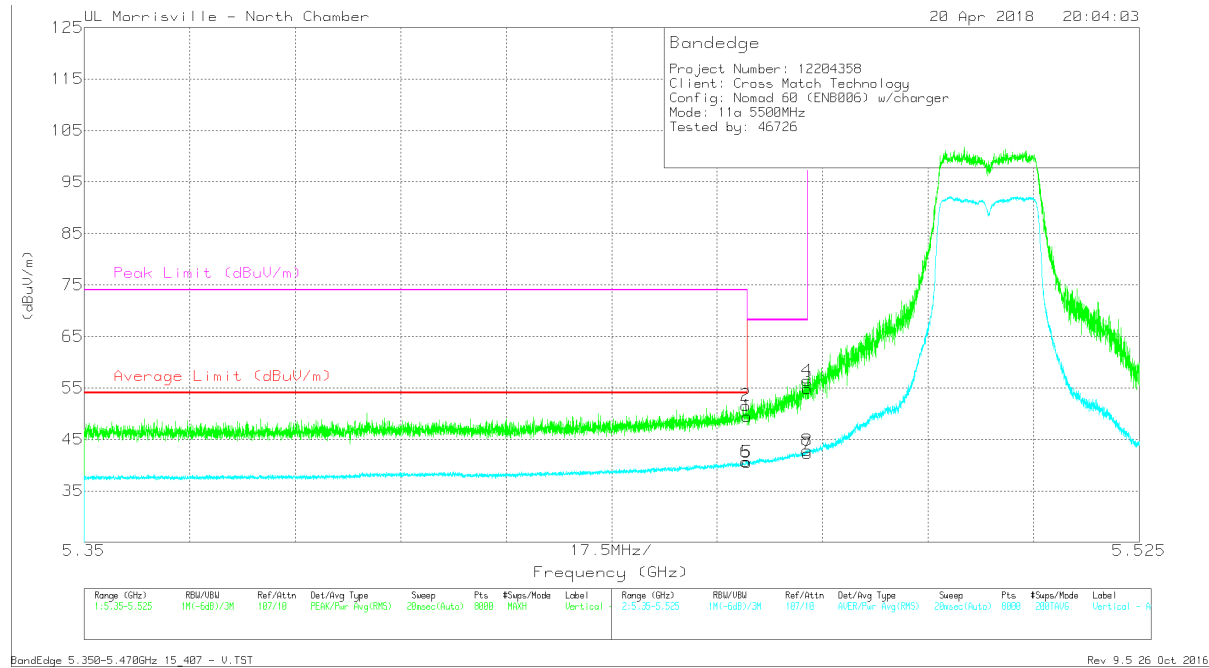


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.46	36.5	Pk	34.5	-23.1	0	47.9	-	-	74	-26.1	131	137	H
2	* ** 5.459	38.97	Pk	34.5	-23.1	0	50.37	-	-	74	-23.63	131	137	H
5	* ** 5.46	27.89	RMS	34.5	-23.1	.2	39.49	54	-14.51	-	-	131	137	H
6	* ** 5.459	28.14	RMS	34.5	-23.1	.2	39.74	54	-14.26	-	-	131	137	H
4	5.469	41.76	Pk	34.5	-23	0	53.26	-	-	68.2	-14.94	131	137	H
3	5.47	37.98	Pk	34.5	-23	0	49.48	-	-	68.2	-18.72	131	137	H
7	5.47	28.66	RMS	34.5	-23	.2	40.36	-	-	-	-	131	137	H
8	5.47	29.32	RMS	34.5	-23	.2	41.02	-	-	-	-	131	137	H

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

Pk - Peak detector

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



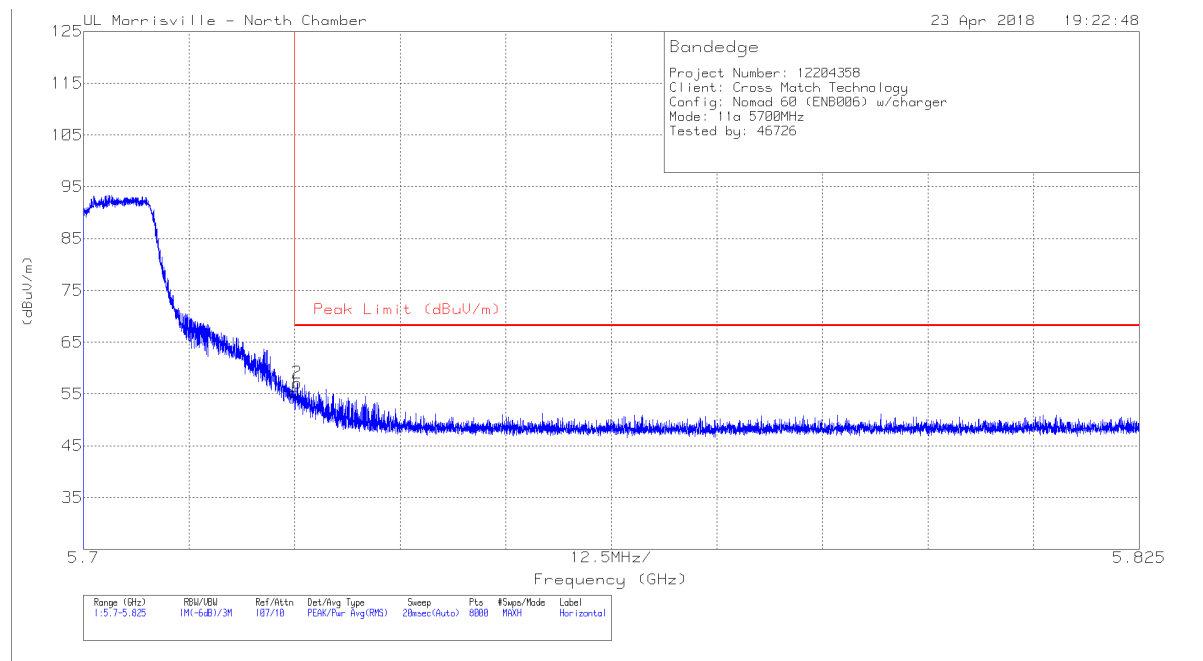
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.46	38.13	Pk	34.5	-23.1	0	49.53	-	-	74	-24.47	68	297	V
2	* ** 5.46	40.2	Pk	34.5	-23.1	0	51.6	-	-	74	-22.4	68	297	V
5	* ** 5.46	28.97	RMS	34.5	-23.1	.2	40.57	54	-13.43	-	-	68	297	V
6	* ** 5.46	29.07	RMS	34.5	-23.1	.2	40.67	54	-13.33	-	-	68	297	V
3	5.47	43.41	Pk	34.5	-23	0	54.91	-	-	68.2	-13.29	68	297	V
4	5.47	44.92	Pk	34.5	-23	0	56.42	-	-	68.2	-11.78	68	297	V
7	5.47	30.55	RMS	34.5	-23	.2	42.25	-	-	-	-	68	297	V
8	5.47	31.15	RMS	34.5	-23	.2	42.85	-	-	-	-	68	297	V

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

Pk - Peak detector

RMS - RMS detection

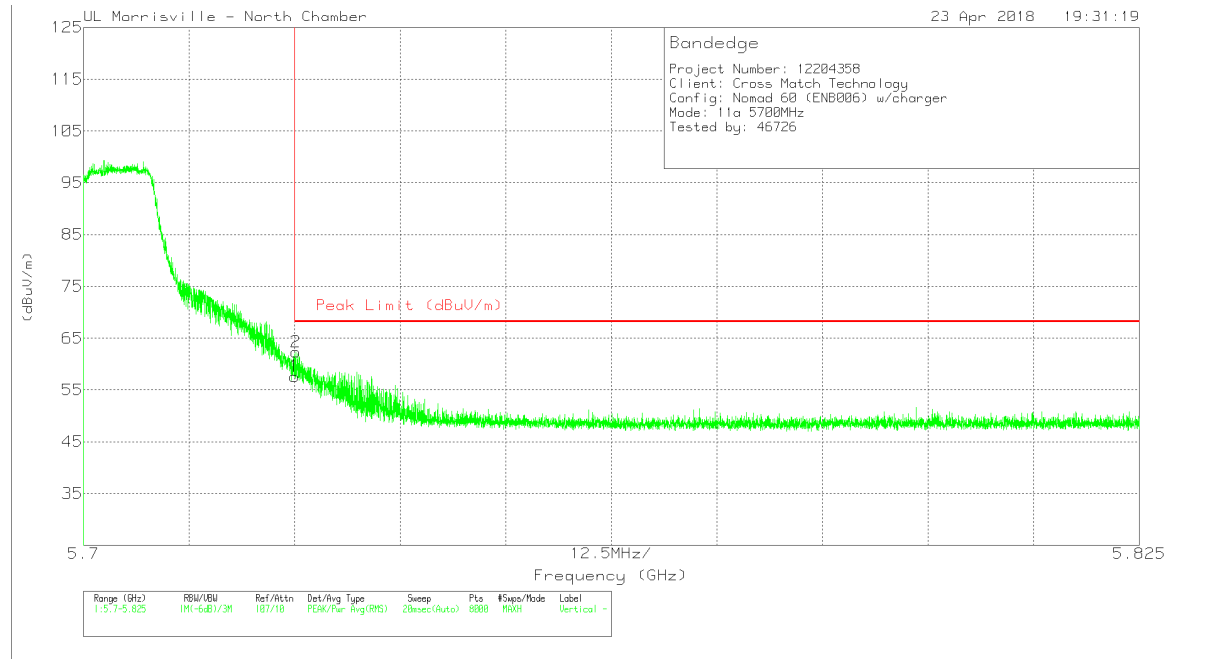
AUTHORIZED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (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	43.63	Pk	34.7	-23	0	55.33	68.2	-12.87	213	390	H
2	5.725	45.46	Pk	34.7	-23	0	57.16	68.2	-11.04	213	390	H

Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL, VERTICAL)

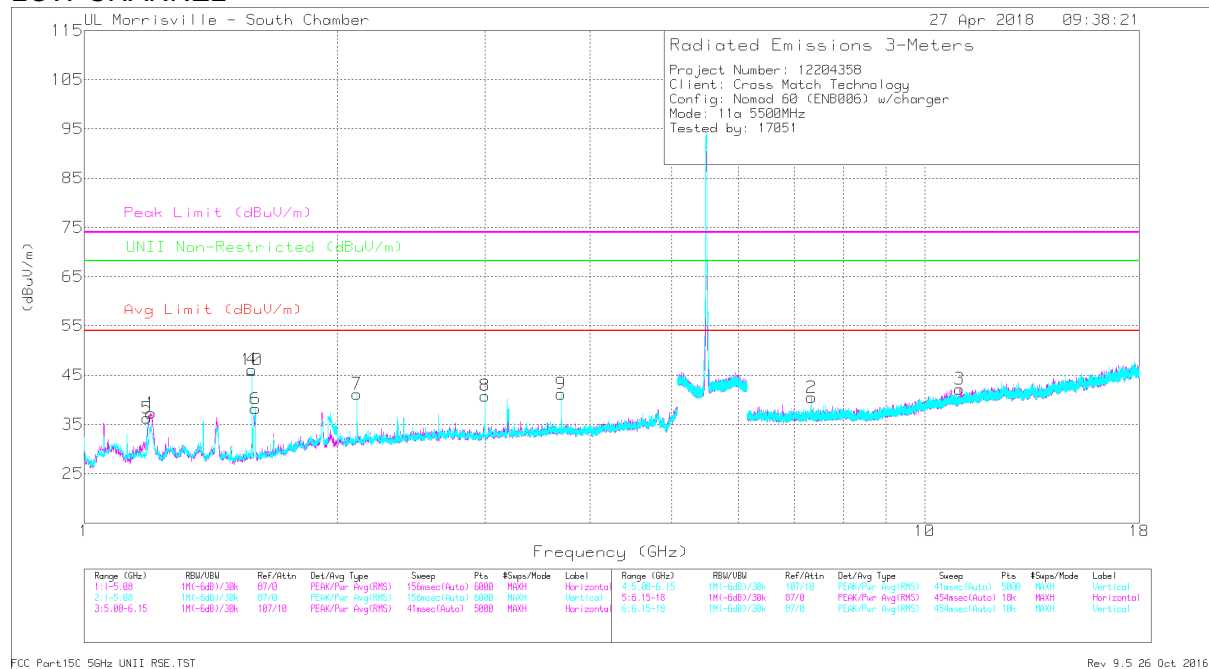


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	45.94	Pk	34.7	-23	0	57.64	68.2	-10.56	148	262	V
2	5.725	50.65	Pk	34.7	-23	0	62.35	68.2	-5.85	148	262	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



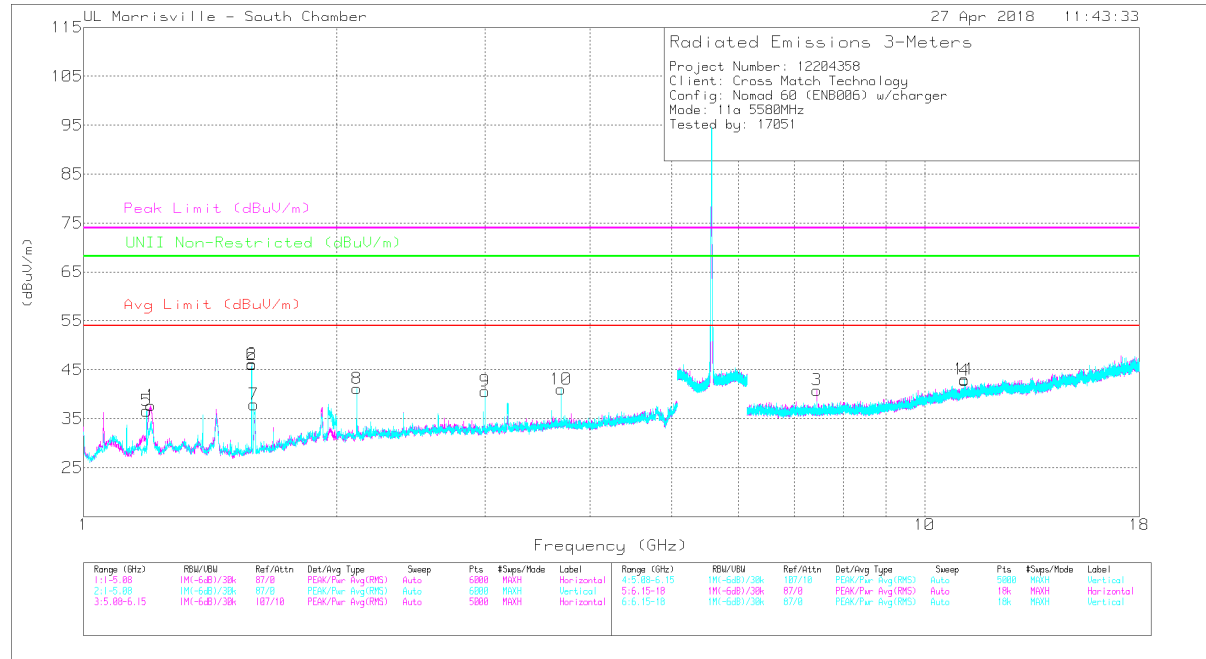
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 AF (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.199	51.2	PK-U	28.4	-35.2	0	44.4	-	-	74	-29.6	-	-	174	105	H
	* 1.201	39.43	ADR	28.5	-35.2	.2	32.93	54	-21.07	-	-	-	-	174	105	H
10	* 1.584	55.77	PK-U	28	-34.7	0	49.07	-	-	74	-24.93	-	-	258	131	H
	* 1.584	51.1	ADR	28	-34.7	.2	44.6	54	-9.4	-	-	-	-	258	131	H
5	* 1.188	48.06	PK-U	28.2	-35.2	0	41.06	-	-	74	-32.94	-	-	86	101	V
	* 1.188	42.21	ADR	28.2	-35.2	.2	35.41	54	-18.59	-	-	-	-	86	101	V
4	* 1.584	55.06	PK-U	28	-34.7	0	48.36	-	-	74	-25.64	-	-	190	101	V
	* 1.584	50.52	ADR	28	-34.7	.2	44.02	54	-9.98	-	-	-	-	190	101	V
6	* 1.593	50.51	PK-U	28.1	-34.6	0	44.01	-	-	74	-29.99	-	-	236	202	V
	* 1.593	37.46	ADR	28.1	-34.6	.2	31.16	54	-22.84	-	-	-	-	236	202	V
9	* 3.696	46.41	PK-U	33.3	-32.4	0	47.31	-	-	74	-26.69	-	-	229	310	V
	* 3.696	39.28	ADR	33.3	-32.4	.2	40.38	54	-13.62	-	-	-	-	229	310	V
2	* 7.333	39.82	PK-U	35.4	-28.4	0	46.82	-	-	74	-27.18	-	-	196	136	H
	* 7.333	32.37	ADR	35.4	-28.4	.2	39.57	54	-14.43	-	-	-	-	196	136	H
3	* 10.996	35.68	PK-U	37.9	-24.9	0	48.68	-	-	74	-25.32	-	-	249	193	H
	* 11	24.56	ADR	37.9	-24.9	.2	37.76	54	-16.24	-	-	-	-	249	193	H
7	2.112	48.44	PK-U	31.7	-34.5	0	45.64	-	-	-	-	68.2	-22.56	206	108	V
8	3	47.3	PK-U	32.5	-33.7	0	46.1	-	-	-	-	68.2	-22.1	231	182	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL



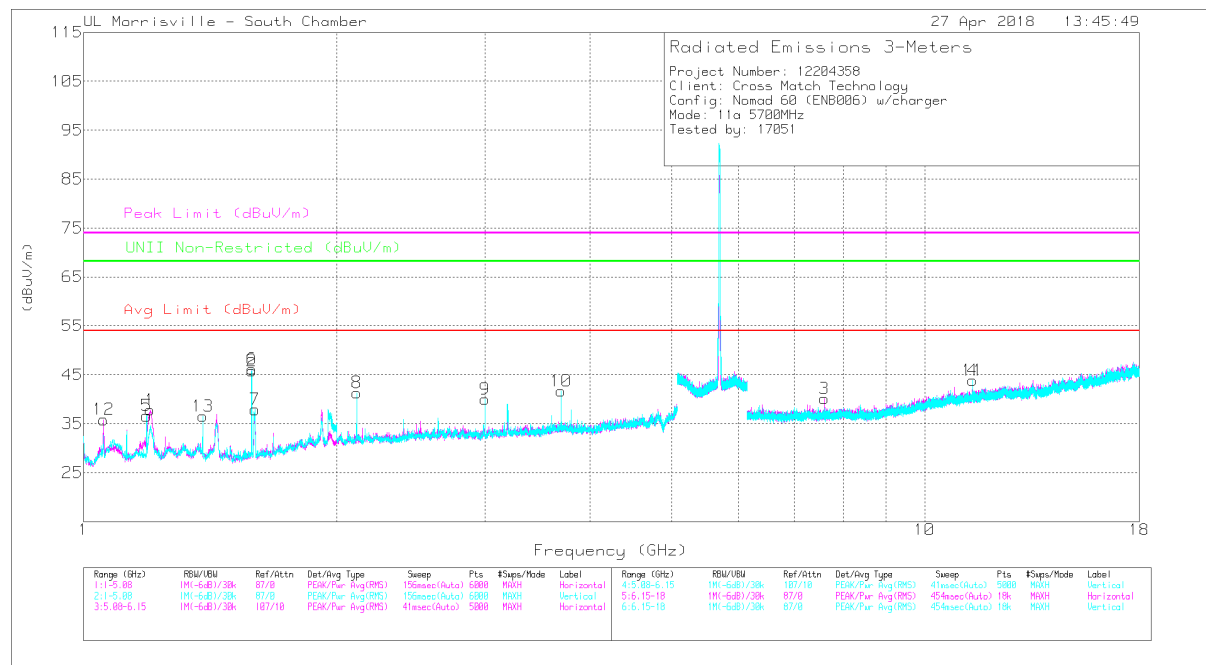
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 AF (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.201	51.31	PK-U	28.5	-35.2	0	44.61	-	-	74	-29.39	-	-	176	105	H
	* 1.201	39.59	ADR	28.5	-35.2	.2	33.09	54	-20.91	-	-	-	-	176	105	H
2	* 1.584	55.62	PK-U	28	-34.7	0	48.92	-	-	74	-25.08	-	-	258	131	H
	* 1.584	51.4	ADR	28	-34.7	.2	44.9	54	-9.1	-	-	-	-	258	131	H
5	* 1.188	48.8	PK-U	28.2	-35.2	0	41.8	-	-	74	-32.2	-	-	86	101	V
	* 1.188	42.5	ADR	28.2	-35.2	.2	35.7	54	-18.3	-	-	-	-	86	101	V
6	* 1.584	55.51	PK-U	28	-34.7	0	48.81	-	-	74	-25.19	-	-	191	101	V
	* 1.584	50.74	ADR	28	-34.7	.2	44.24	54	-9.76	-	-	-	-	191	101	V
7	* 1.593	50.84	PK-U	28.1	-34.6	0	44.34	-	-	74	-29.66	-	-	236	202	V
	* 1.593	37.77	ADR	28.1	-34.6	.2	31.47	54	-22.53	-	-	-	-	236	202	V
10	* 3.696	46.33	PK-U	33.3	-32.4	0	47.23	-	-	74	-26.77	-	-	229	310	V
	* 3.696	39.09	ADR	33.3	-32.4	.2	40.19	54	-13.81	-	-	-	-	229	310	V
3	* 7.44	39.52	PK-U	35.4	-28.2	0	46.72	-	-	74	-27.28	-	-	196	136	H
	* 7.44	31.68	ADR	35.4	-28.2	.2	39.08	54	-14.92	-	-	-	-	196	136	H
4	* 11.156	37.64	PK-U	38.1	-24.8	0	50.94	-	-	74	-23.06	-	-	246	196	H
	* 11.16	25.75	ADR	38.1	-24.8	.2	39.25	54	-14.75	-	-	-	-	246	196	H
11	* 11.161	37.53	PK-U	38.1	-24.8	0	50.83	-	-	74	-23.17	-	-	211	101	V
	* 11.16	25.85	ADR	38.1	-24.8	.2	39.35	54	-14.65	-	-	-	-	211	101	V
8	2.112	49	PK-U	31.7	-34.5	0	46.2	-	-	-	-	68.2	-22	206	109	V
9	3	46.5	PK-U	32.5	-33.7	0	45.3	-	-	-	-	68.2	-22.9	232	181	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
12	* 1.056	49.5	PK-U	27	-35.1	0	41.4	-	-	74	-32.6	-	-	242	196	H
	* 1.056	41.58	ADR	27	-35.1	.2	33.68	54	-20.32	-	-	-	-	242	196	H
1	* 1.202	51.2	PK-U	28.5	-35.2	0	44.5	-	-	74	-29.5	-	-	177	106	H
	* 1.201	39.6	ADR	28.5	-35.2	.2	33.1	54	-20.9	-	-	-	-	177	106	H
2	* 1.584	55.55	PK-U	28	-34.7	0	48.85	-	-	74	-25.15	-	-	259	131	H
	* 1.584	51.2	ADR	28	-34.7	.2	44.7	54	-9.3	-	-	-	-	259	131	H
5	* 1.188	48.62	PK-U	28.2	-35.2	0	41.62	-	-	74	-32.38	-	-	86	101	V
	* 1.188	42.52	ADR	28.2	-35.2	.2	35.72	54	-18.28	-	-	-	-	86	101	V
13	* 1.386	48.2	PK-U	28.7	-34.8	0	42.1	-	-	74	-31.9	-	-	1	277	V
	* 1.386	42.64	ADR	28.7	-34.8	.2	36.74	54	-17.26	-	-	-	-	1	277	V
6	* 1.584	54.99	PK-U	28	-34.7	0	48.29	-	-	74	-25.71	-	-	191	101	V
	* 1.584	50.55	ADR	28	-34.7	.2	44.05	54	-9.95	-	-	-	-	191	101	V
7	* 1.6	50.54	PK-U	28.2	-34.5	0	44.24	-	-	74	-29.76	-	-	237	201	V
	* 1.593	37.37	ADR	28.1	-34.6	.2	31.07	54	-22.93	-	-	-	-	237	201	V
10	* 3.696	46.25	PK-U	33.3	-32.4	0	47.15	-	-	74	-26.85	-	-	228	310	V
	* 3.696	39.05	ADR	33.3	-32.4	.2	40.15	54	-13.85	-	-	-	-	228	310	V
3	* 7.6	39.02	PK-U	35.5	-27.9	0	46.62	-	-	74	-27.38	-	-	212	194	H
	* 7.6	30.51	ADR	35.5	-27.9	.2	38.31	54	-15.69	-	-	-	-	212	194	H
4	* 11.404	36.61	PK-U	38.3	-24.8	0	50.11	-	-	74	-23.89	-	-	244	177	H
	* 11.4	25.29	ADR	38.3	-24.8	.2	38.99	54	-15.01	-	-	-	-	244	177	H
11	* 11.401	36.79	PK-U	38.3	-24.8	0	50.29	-	-	74	-23.71	-	-	215	101	V
	* 11.4	25.31	ADR	38.3	-24.8	.2	39.01	54	-14.99	-	-	-	-	215	101	V
8	2.112	44.14	Pk	31.7	-34.5	0	41.34	-	-	-	-	68.2	-26.86	0-360	101	V
9	3	41.18	Pk	32.5	-33.7	0	39.98	-	-	-	-	68.2	-28.22	0-360	199	V

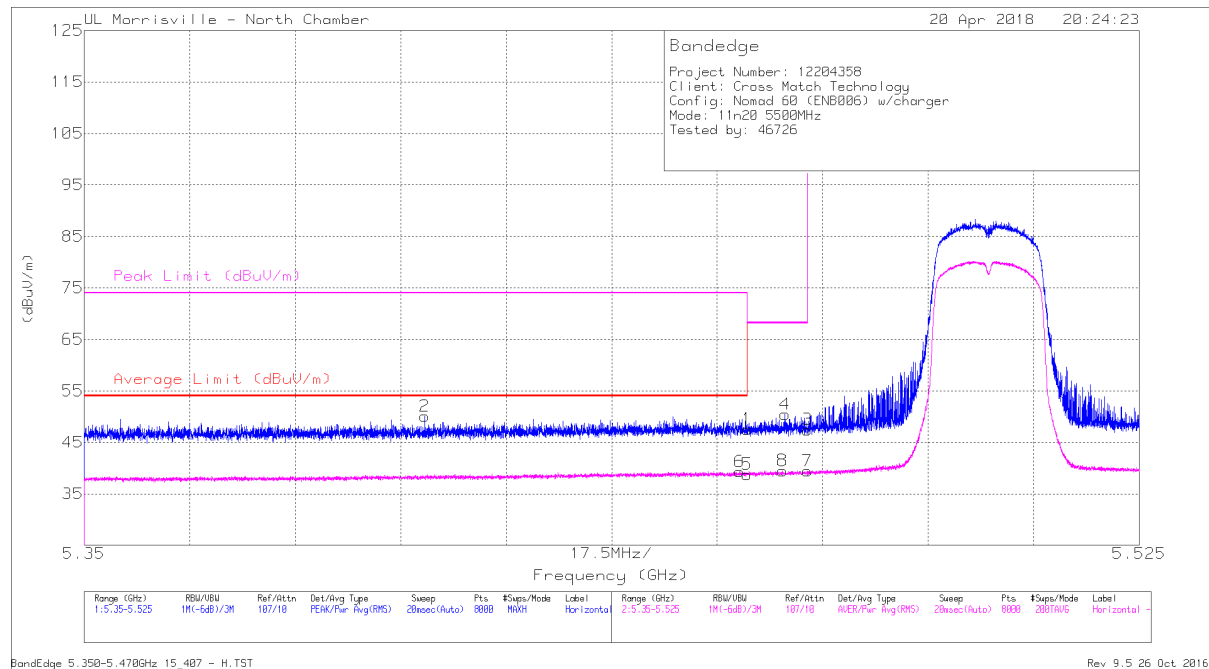
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.10. TX ABOVE 1 GHz 802.11nHT20 MODE IN THE 5.6 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



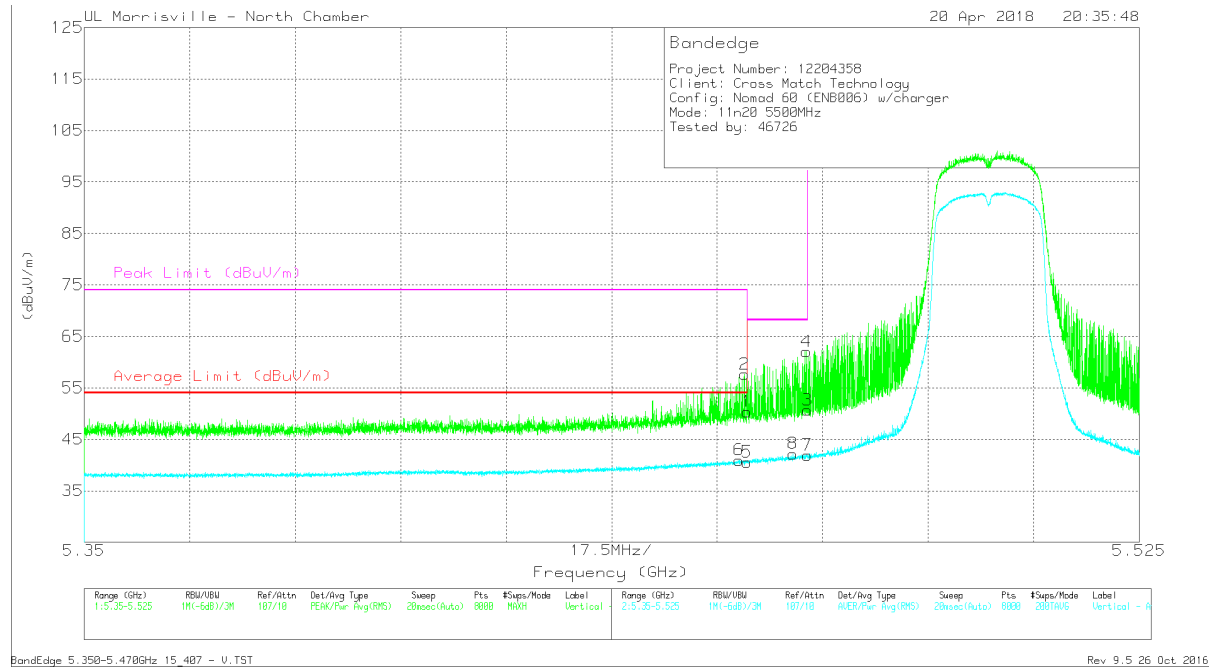
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	36.16	Pk	34.5	-23.1	0	47.56	-	-	74	-26.44	302	263	H
2	* 5.407	38.65	Pk	34.5	-23.1	0	50.05	-	-	74	-23.95	302	263	H
5	* 5.46	26.7	RMS	34.5	-23.1	.66	38.76	54	-15.24	-	-	302	263	H
6	* 5.459	27.28	RMS	34.5	-23.1	.66	39.34	54	-14.66	-	-	302	263	H
4	5.466	39.02	Pk	34.5	-23.1	0	50.42	-	-	68.2	-17.78	302	263	H
8	5.466	27.43	RMS	34.5	-23.1	.66	39.49	-	-	-	-	302	263	H
3	5.47	35.95	Pk	34.5	-23	0	47.45	-	-	68.2	-20.75	302	263	H
7	5.47	27.26	RMS	34.5	-23	.66	39.42	-	-	-	-	302	263	H

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

Pk - Peak detector

RMS - RMS detection

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



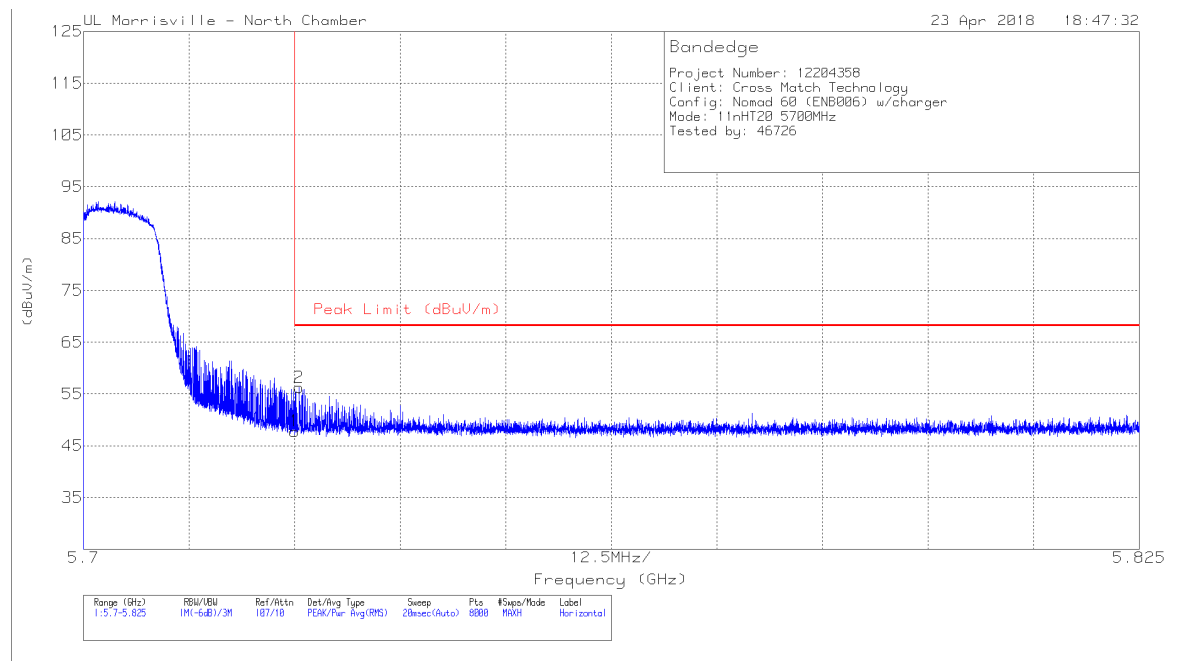
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	38.99	Pk	34.5	-23.1	0	50.39	-	-	74	-23.61	67	260	V
2	* 5.46	46.26	Pk	34.5	-23.1	0	57.66	-	-	74	-16.34	67	260	V
5	* 5.46	28.52	RMS	34.5	-23.1	.66	40.58	54	-13.42	-	-	67	260	V
6	* 5.459	28.92	RMS	34.5	-23.1	.66	40.98	54	-13.02	-	-	67	260	V
8	5.468	30.14	RMS	34.5	-23.1	.66	42.2	-	-	-	-	67	260	V
3	5.47	39.18	Pk	34.5	-23	0	50.68	-	-	68.2	-17.52	67	260	V
4	5.47	50.54	Pk	34.5	-23	0	62.04	-	-	68.2	-6.16	67	260	V
7	5.47	29.78	RMS	34.5	-23	.66	41.94	-	-	-	-	67	260	V

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

Pk - Peak detector

RMS - RMS detection

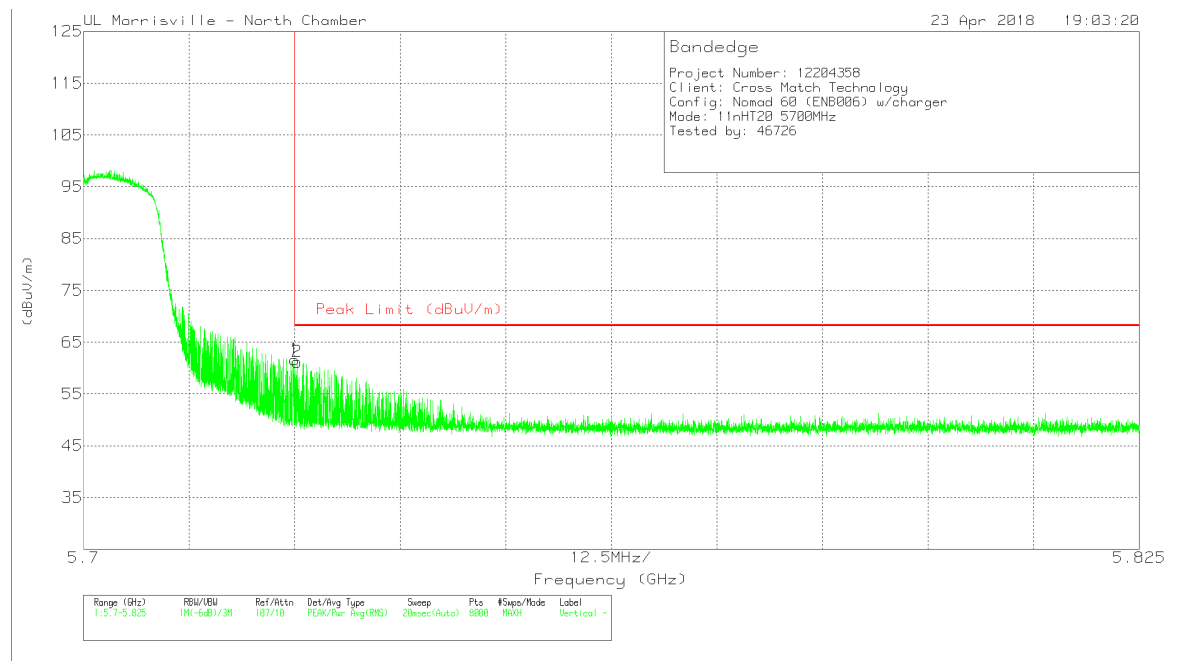
AUTHORIZED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (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	36.11	Pk	34.7	-23	0	47.81	68.2	-20.39	245	384	H
2	5.726	44.52	Pk	34.7	-23	0	56.22	68.2	-11.98	245	384	H

Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL, VERTICAL)

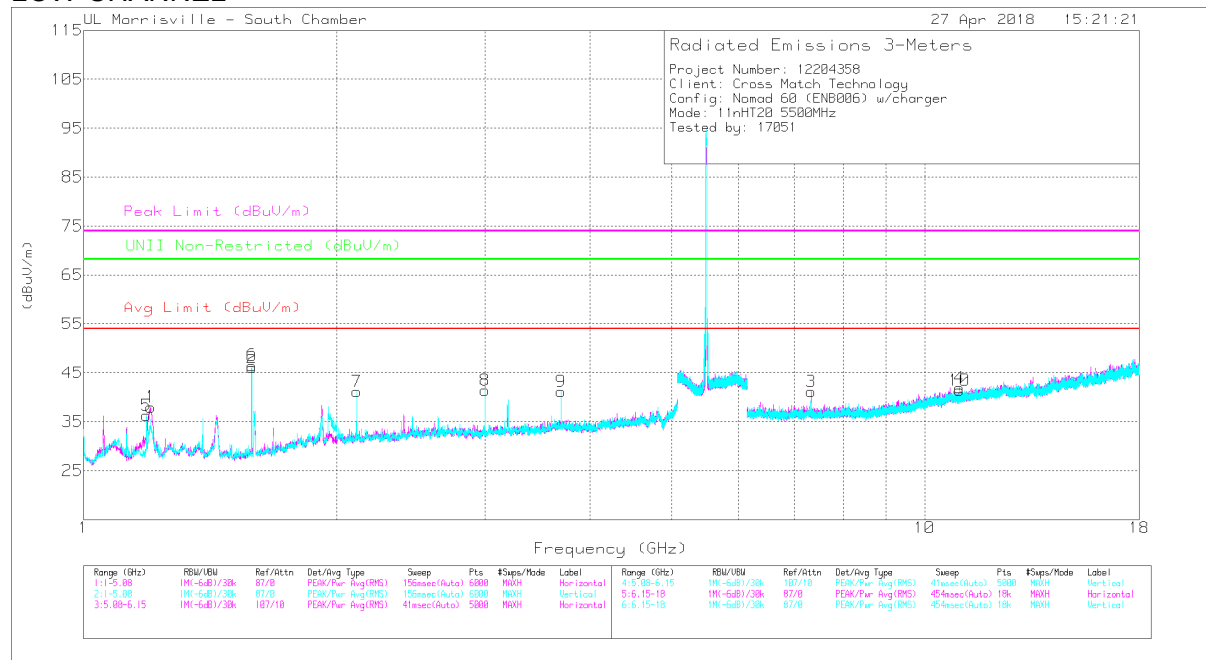


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	49.97	Pk	34.7	-23	0	61.67	68.2	-6.53	151	265	V
2	5.725	49.5	Pk	34.7	-23	0	61.2	68.2	-7	151	265	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



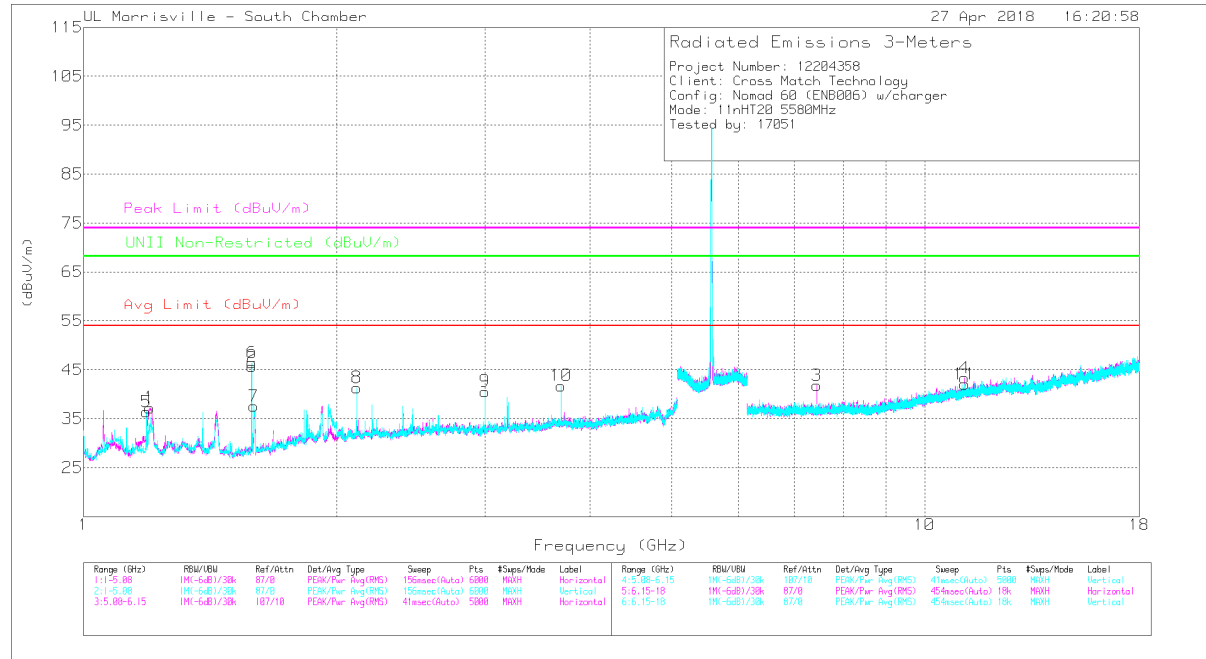
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 AF (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.201	51.43	PK-U	28.5	-35.2	0	44.73	-	-	74	-29.27	-	-	174	105	H
	* 1.201	39.64	ADR	28.5	-35.2	.66	33.6	54	-20.4	-	-	-	-	174	105	H
2	* 1.584	55.85	PK-U	28	-34.7	0	49.15	-	-	74	-24.85	-	-	258	131	H
	* 1.584	51.22	ADR	28	-34.7	.66	45.18	54	-8.82	-	-	-	-	258	131	H
5	* 1.188	48.17	PK-U	28.2	-35.2	0	41.17	-	-	74	-32.83	-	-	85	101	V
	* 1.188	42.44	ADR	28.2	-35.2	.66	36.1	54	-17.9	-	-	-	-	85	101	V
6	* 1.584	55.06	PK-U	28	-34.7	0	48.36	-	-	74	-25.64	-	-	191	101	V
	* 1.584	50.61	ADR	28	-34.7	.66	44.57	54	-9.43	-	-	-	-	191	101	V
9	* 3.696	46.35	PK-U	33.3	-32.4	0	47.25	-	-	74	-26.75	-	-	229	310	V
	* 3.696	39.16	ADR	33.3	-32.4	.66	40.72	54	-13.28	-	-	-	-	229	310	V
3	* 7.333	40.2	PK-U	35.4	-28.4	0	47.2	-	-	74	-26.8	-	-	197	136	H
	* 7.333	32.46	ADR	35.4	-28.4	.66	40.12	54	-13.88	-	-	-	-	197	136	H
4	* 11.003	37.5	PK-U	37.9	-24.9	0	50.5	-	-	74	-23.5	-	-	257	101	H
	* 11	25.47	ADR	37.9	-24.9	.66	39.13	54	-14.87	-	-	-	-	257	101	H
10	* 11.002	36.65	PK-U	37.9	-24.9	0	49.65	-	-	74	-24.35	-	-	213	117	V
	* 11	25.19	ADR	37.9	-24.9	.66	38.85	54	-15.15	-	-	-	-	213	117	V
7	2.112	49.04	PK-U	31.7	-34.5	0	46.24	-	-	-	-	68.2	-21.96	206	108	V
8	3	46.96	PK-U	32.5	-33.7	0	45.76	-	-	-	-	68.2	-22.44	231	182	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL



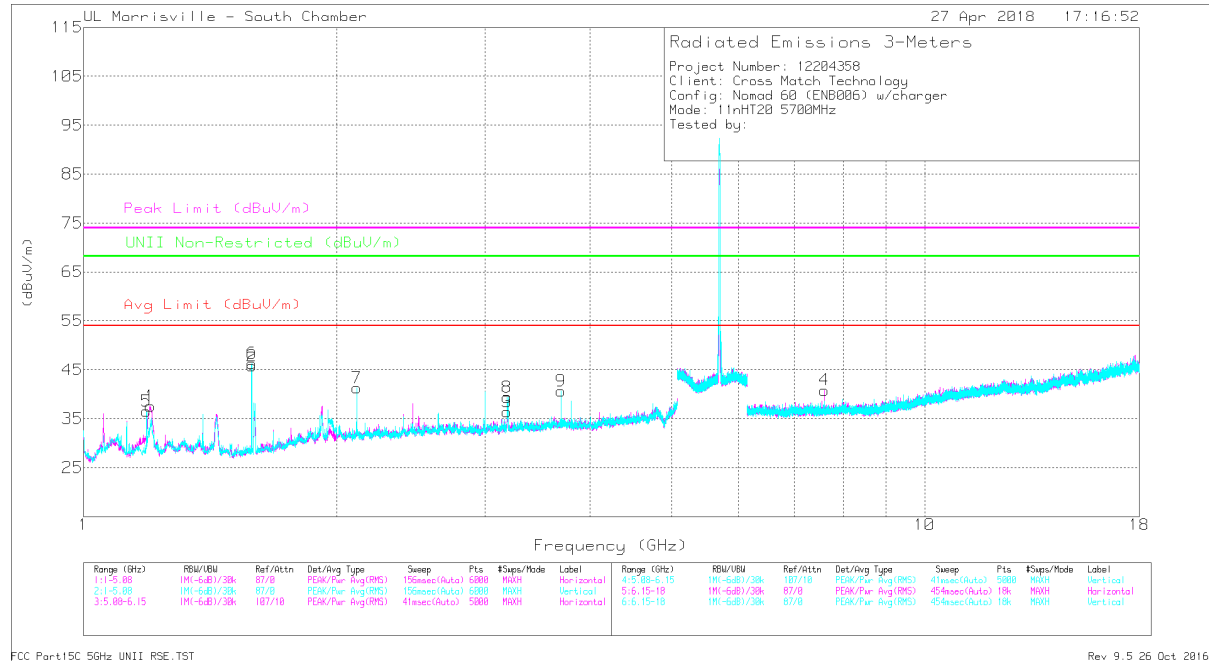
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.2	51.49	PK-U	28.5	-35.2	0	44.79	-	-	74	-29.21	-	-	175	105	H
	* 1.201	39.69	ADR	28.5	-35.2	.66	33.65	54	-20.35	-	-	-	-	175	105	H
2	* 1.584	55.71	PK-U	28	-34.7	0	49.01	-	-	74	-24.99	-	-	259	131	H
	* 1.584	51.29	ADR	28	-34.7	.66	45.25	54	-8.75	-	-	-	-	259	131	H
5	* 1.188	48.15	PK-U	28.2	-35.2	0	41.15	-	-	74	-32.85	-	-	86	101	V
	* 1.188	42.49	ADR	28.2	-35.2	.66	36.15	54	-17.85	-	-	-	-	86	101	V
6	* 1.584	55.18	PK-U	28	-34.7	0	48.48	-	-	74	-25.52	-	-	190	101	V
	* 1.584	50.65	ADR	28	-34.7	.66	44.61	54	-9.39	-	-	-	-	190	101	V
7	* 1.593	50.43	PK-U	28.1	-34.6	0	43.93	-	-	74	-30.07	-	-	237	201	V
	* 1.593	36.99	ADR	28.1	-34.6	.66	31.15	54	-22.85	-	-	-	-	237	201	V
10	* 3.696	46.42	PK-U	33.3	-32.4	0	47.32	-	-	74	-26.68	-	-	228	310	V
	* 3.696	39.22	ADR	33.3	-32.4	.66	40.78	54	-13.22	-	-	-	-	228	310	V
3	* 7.44	39.92	PK-U	35.4	-28.2	0	47.12	-	-	74	-26.88	-	-	191	117	H
	* 7.44	32.63	ADR	35.4	-28.2	.66	40.49	54	-13.51	-	-	-	-	191	117	H
4	* 11.158	38.21	PK-U	38.1	-24.8	0	51.51	-	-	74	-22.49	-	-	247	187	H
	* 11.16	25.9	ADR	38.1	-24.8	.66	39.86	54	-14.14	-	-	-	-	247	187	H
11	* 11.157	36.83	PK-U	38.1	-24.8	0	50.13	-	-	74	-23.87	-	-	214	101	V
	* 11.16	25.89	ADR	38.1	-24.8	.66	39.85	54	-14.15	-	-	-	-	214	101	V
8	2.112	48.71	PK-U	31.7	-34.5	0	45.91	-	-	-	-	68.2	-22.29	205	109	V
9	3	46.88	PK-U	32.5	-33.7	0	45.68	-	-	-	-	68.2	-22.52	231	181	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL



Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.2	51.43	PK-U	28.5	-35.2	0	44.73	-	-	74	-29.27	-	-	167	105	H
	* 1.2	39.63	ADR	28.5	-35.2	.66	33.59	54	-20.41	-	-	-	-	167	105	H
2	* 1.584	55.7	PK-U	28	-34.7	0	49	-	-	74	-25	-	-	255	165	H
	* 1.584	51.17	ADR	28	-34.7	.66	45.13	54	-8.87	-	-	-	-	255	165	H
5	* 1.188	48.15	PK-U	28.2	-35.2	0	41.15	-	-	74	-32.85	-	-	76	148	V
	* 1.188	41.66	ADR	28.2	-35.2	.66	35.32	54	-18.68	-	-	-	-	76	148	V
6	* 1.584	56.24	PK-U	28	-34.7	0	49.54	-	-	74	-24.46	-	-	184	106	V
	* 1.584	50.68	ADR	28	-34.7	.66	44.64	54	-9.36	-	-	-	-	184	106	V
9	* 3.696	46.09	PK-U	33.3	-32.4	0	46.99	-	-	74	-27.01	-	-	237	315	V
	* 3.696	38.51	ADR	33.3	-32.4	.66	40.07	54	-13.93	-	-	-	-	237	315	V
4	* 7.6	39.28	PK-U	35.5	-27.9	0	46.88	-	-	74	-27.12	-	-	212	180	H
	* 7.6	30.07	ADR	35.5	-27.9	.66	38.33	54	-15.67	-	-	-	-	212	180	H
7	2.112	49.57	PK-U	31.7	-34.5	0	46.77	-	-	-	-	68.2	-21.43	204	107	V
8	3.186	46.22	PK-U	32.8	-33.5	0	45.52	-	-	-	-	68.2	-22.68	282	195	H
3	3.186	48.51	PK-U	32.8	-33.5	0	47.81	-	-	-	-	68.2	-20.39	216	127	V

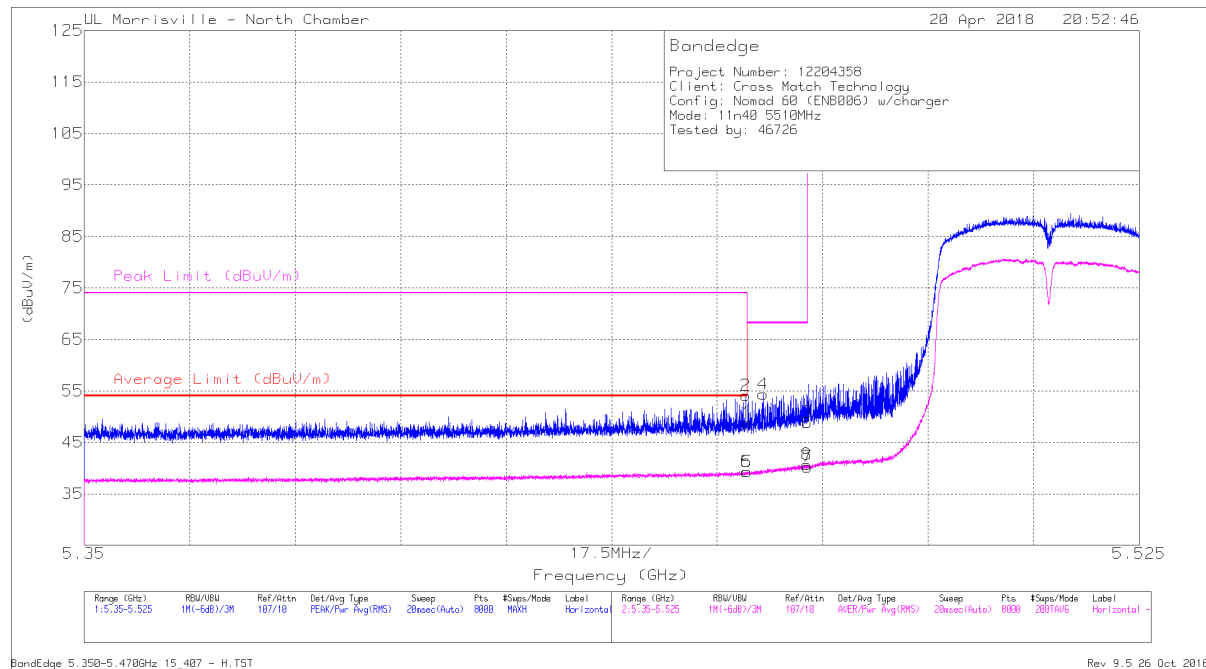
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.11. TX ABOVE 1 GHz 802.11nHT40 MODE IN THE 5.6 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



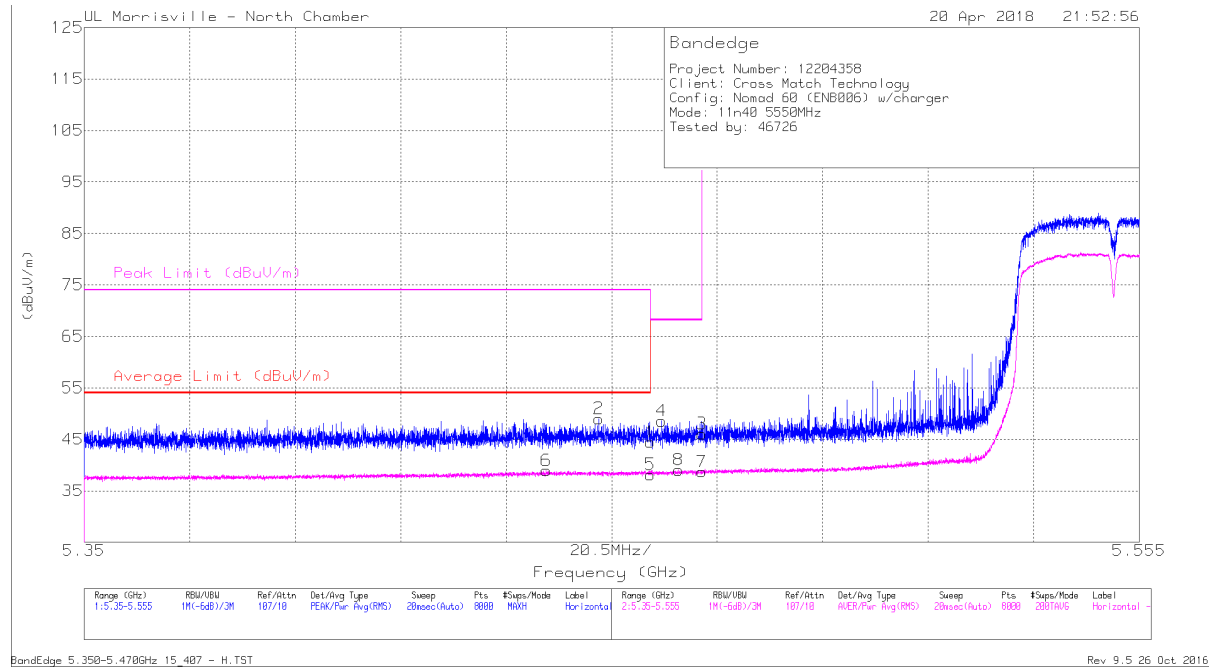
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	37.37	Pk	34.5	-23.1	0	48.77	-	-	74	-25.23	91	127	H
2	* 5.46	42.7	Pk	34.5	-23.1	0	54.1	-	-	74	-19.9	91	127	H
5	* 5.46	27.55	RMS	34.5	-23.1	.38	39.33	54	-14.67	-	-	91	127	H
6	* 5.46	27.53	RMS	34.5	-23.1	.38	39.31	54	-14.69	-	-	91	127	H
4	5.463	42.93	Pk	34.5	-23.1	0	54.33	-	-	68.2	-13.87	91	127	H
3	5.47	37.39	Pk	34.5	-23	0	48.89	-	-	68.2	-19.31	91	127	H
7	5.47	28.38	RMS	34.5	-23	.38	40.26	-	-	-	-	91	127	H
8	5.47	28.81	RMS	34.5	-23	.38	40.69	-	-	-	-	91	127	H

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

Pk - Peak detector

RMS - RMS detection

RESTRICTED BANDEDGE (CHANNEL 110, HORIZONTAL)



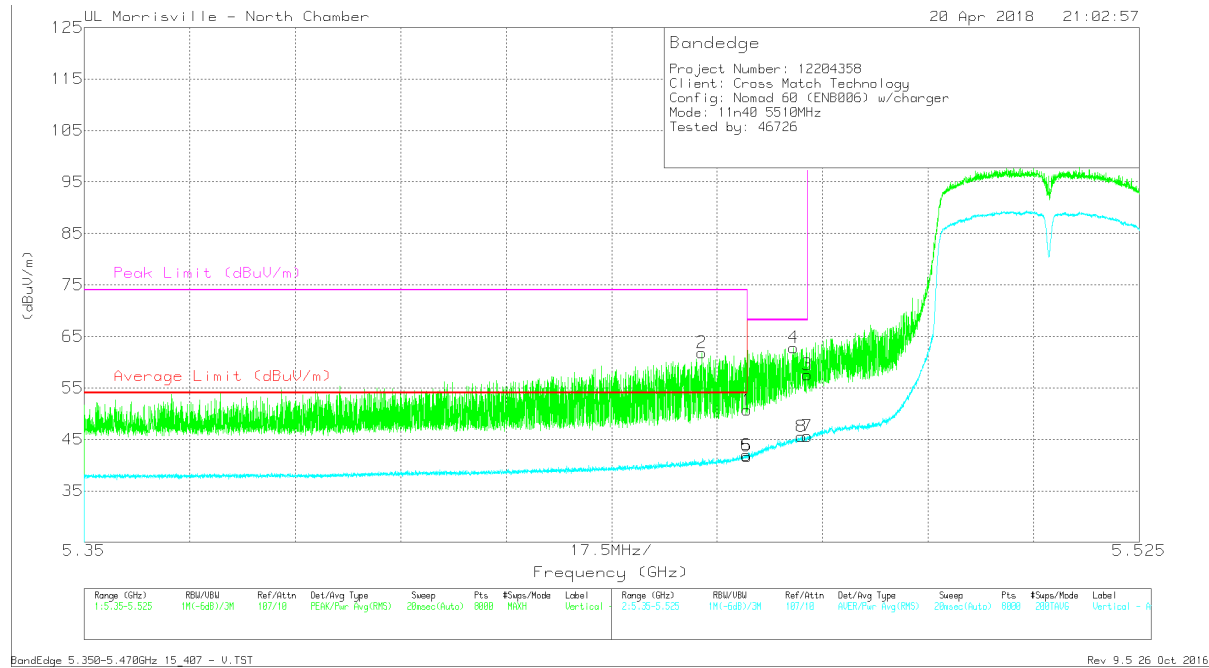
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	33.03	Pk	34.5	-23.1	0	44.43	-	-	74	-29.57	93	122	H
2	* 5.45	37.63	Pk	34.5	-23.1	0	49.03	-	-	74	-24.97	93	122	H
5	* 5.46	26.36	RMS	34.5	-23.1	.38	38.14	54	-15.86	-	-	93	122	H
6	* 5.44	27.06	RMS	34.5	-23	.38	38.94	54	-15.06	-	-	93	122	H
4	5.462	37.18	Pk	34.5	-23.1	0	48.58	-	-	68.2	-19.62	93	122	H
8	5.466	27.27	RMS	34.5	-23.1	.38	39.05	-	-	-	-	93	122	H
3	5.47	34.57	Pk	34.5	-23	0	46.07	-	-	68.2	-22.13	93	122	H
7	5.47	26.84	RMS	34.5	-23	.38	38.72	-	-	-	-	93	122	H

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

Pk - Peak detector

RMS - RMS detection

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



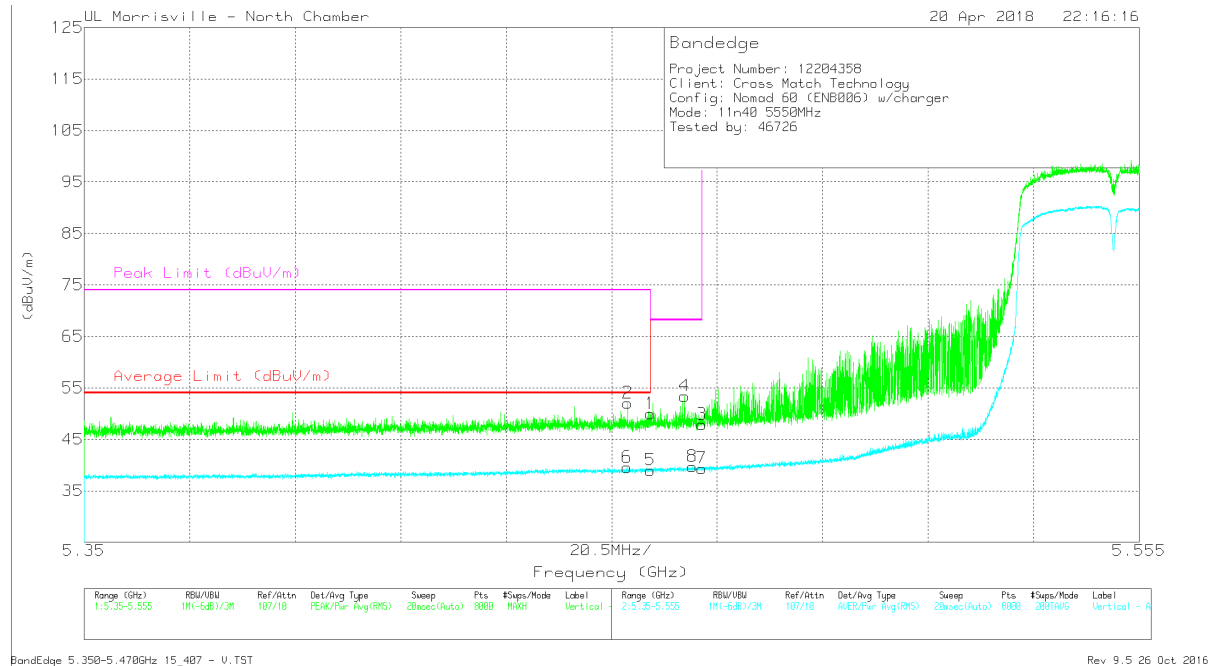
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	39.27	Pk	34.5	-23.1	0	50.67	-	-	74	-23.33	83	289	V
2	* 5.452	50.44	Pk	34.5	-23.1	0	61.84	-	-	74	-12.16	83	289	V
5	* 5.46	29.93	RMS	34.5	-23.1	.38	41.71	54	-12.29	-	-	83	289	V
6	* 5.46	30.2	RMS	34.5	-23.1	.38	41.98	54	-12.02	-	-	83	289	V
4	5.468	51.43	Pk	34.5	-23.1	0	62.83	-	-	68.2	-5.37	83	289	V
8	5.469	33.66	RMS	34.5	-23	.38	45.54	-	-	-	-	83	289	V
3	5.47	46.08	Pk	34.5	-23	0	57.58	-	-	68.2	-10.62	83	289	V
7	5.47	33.75	RMS	34.5	-23	.38	45.63	-	-	-	-	83	289	V

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

Pk - Peak detector

RMS - RMS detection

RESTRICTED BANDEDGE (CHANNEL 110, VERTICAL)



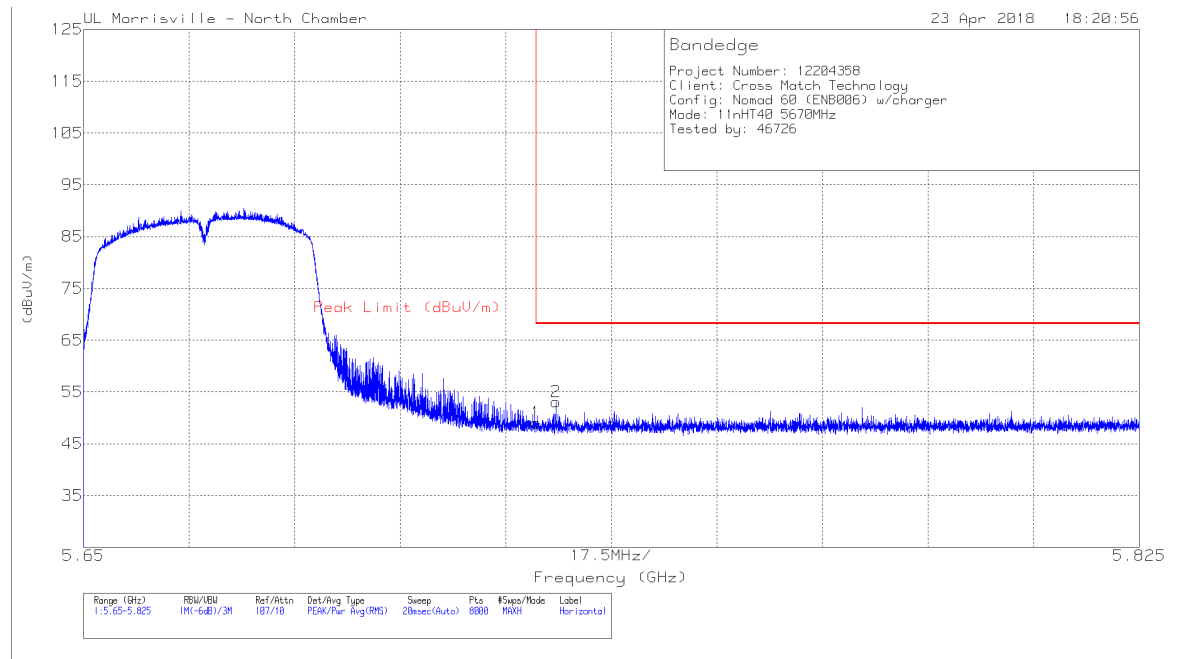
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.456	40.67	Pk	34.5	-23.1	0	52.07	-	-	74	-21.93	78	266	V
6	* 5.456	27.83	RMS	34.5	-23.1	.38	39.61	54	-14.39	-	-	78	266	V
1	* 5.46	38.59	Pk	34.5	-23.1	0	49.99	-	-	74	-24.01	78	266	V
5	* 5.46	27.24	RMS	34.5	-23.1	.38	39.02	54	-14.98	-	-	78	266	V
4	5.467	42.04	Pk	34.5	-23.1	0	53.44	-	-	68.2	-14.76	78	266	V
8	5.468	27.96	RMS	34.5	-23.1	.38	39.74	-	-	-	-	78	266	V
3	5.47	36.43	Pk	34.5	-23	0	47.93	-	-	68.2	-20.27	78	266	V
7	5.47	27.51	RMS	34.5	-23	.38	39.39	-	-	-	-	78	266	V

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

Pk - Peak detector

RMS - RMS detection

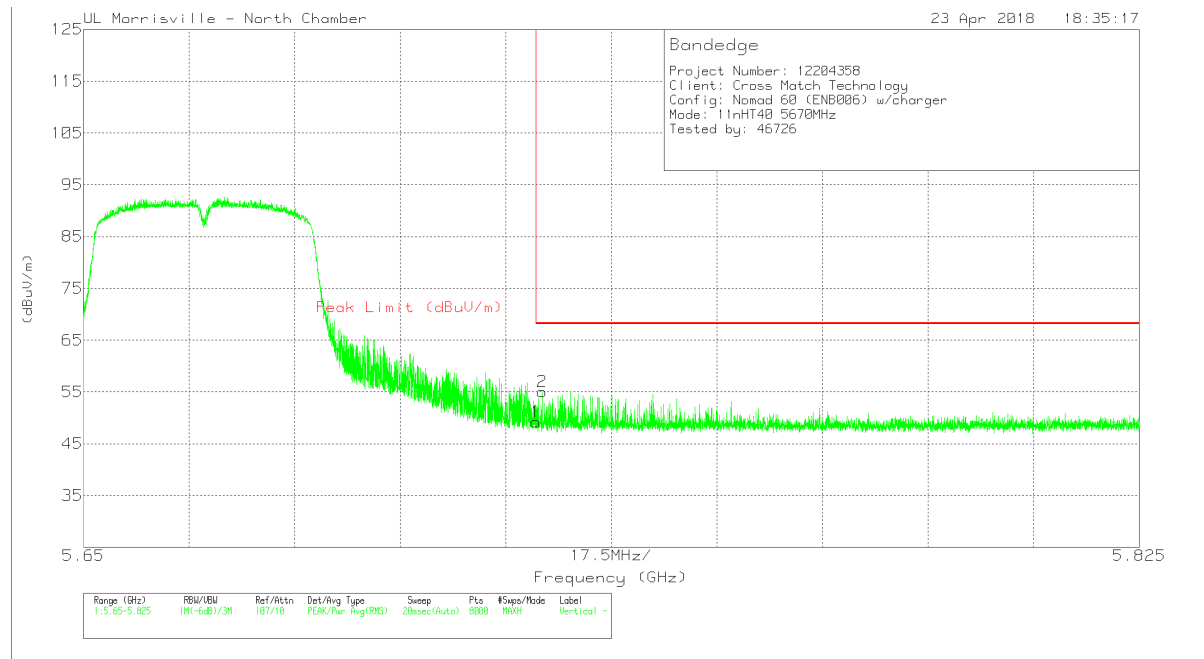
AUTHORIZED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (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	37.33	Pk	34.7	-23	0	49.03	68.2	-19.17	212	395	H
2	5.728	41.37	Pk	34.7	-23	0	53.07	68.2	-15.13	212	395	H

Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL, VERTICAL)

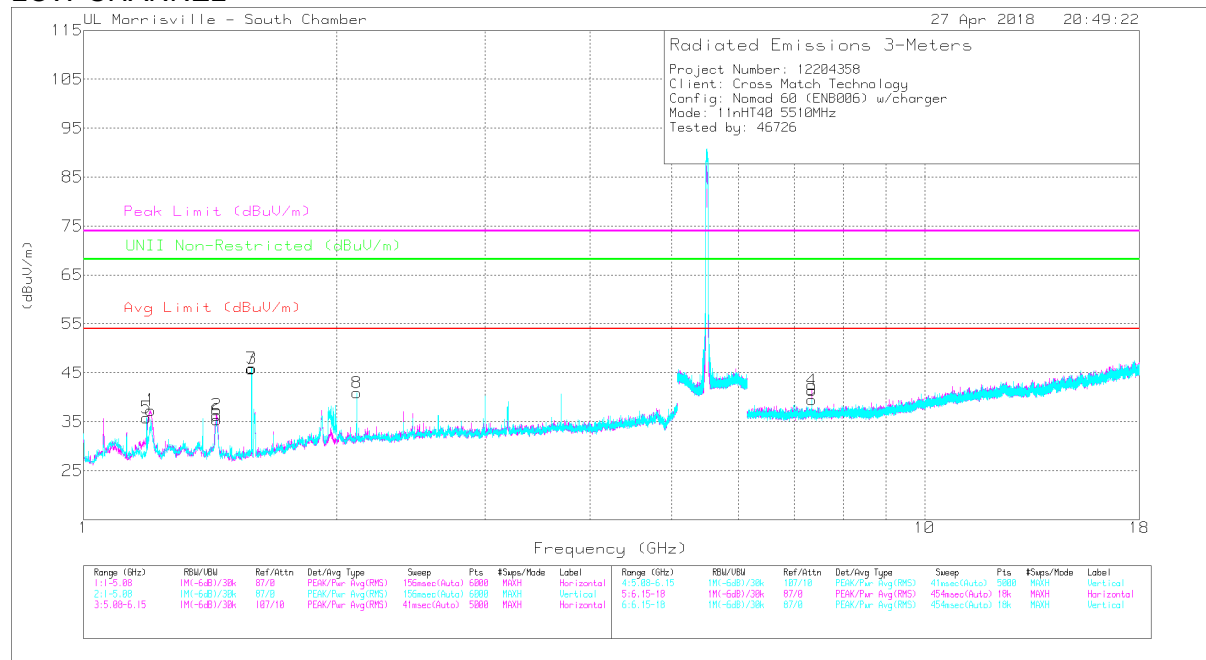


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	37.52	Pk	34.7	-23	0	49.22	68.2	-18.98	122	334	V
2	5.726	43.37	Pk	34.7	-23	0	55.07	68.2	-13.13	122	334	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



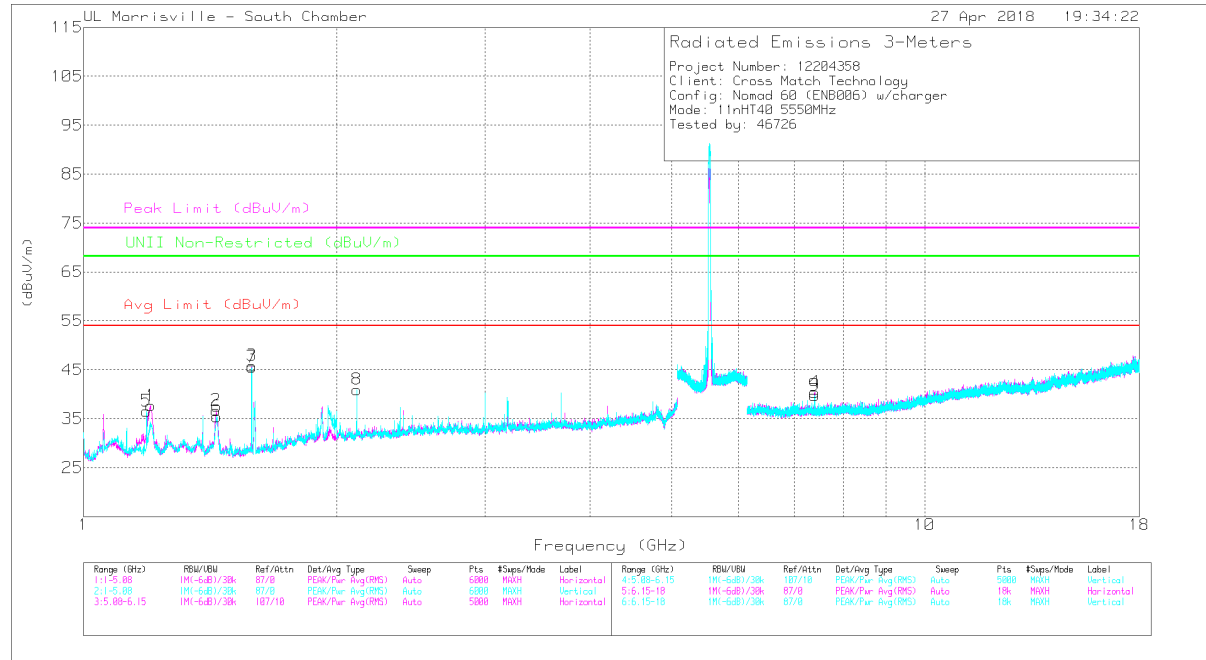
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.202	51.14	PK-U	28.5	-35.2	0	44.44	-	-	74	-29.56	-	-	145	288	H
	* 1.202	39.43	ADR	28.5	-35.2	.38	33.11	54	-20.89	-	-	-	-	145	288	H
2	* 1.44	53.61	PK-U	28.6	-34.9	0	47.31	-	-	74	-26.69	-	-	157	184	H
	* 1.44	38.71	ADR	28.6	-34.9	.38	32.79	54	-21.21	-	-	-	-	157	184	H
3	* 1.584	55.66	PK-U	28	-34.7	0	48.96	-	-	74	-25.04	-	-	259	165	H
	* 1.584	51.29	ADR	28	-34.7	.38	44.97	54	-9.03	-	-	-	-	259	165	H
5	* 1.188	48.57	PK-U	28.2	-35.2	0	41.57	-	-	74	-32.43	-	-	83	101	V
	* 1.188	42.32	ADR	28.2	-35.2	.38	35.7	54	-18.3	-	-	-	-	83	101	V
6	* 1.44	52.83	PK-U	28.6	-34.9	0	46.53	-	-	74	-27.47	-	-	284	204	V
	* 1.44	38.58	ADR	28.6	-34.9	.38	32.66	54	-21.34	-	-	-	-	284	204	V
7	* 1.584	55.18	PK-U	28	-34.7	0	48.48	-	-	74	-25.52	-	-	188	105	V
	* 1.584	50.51	ADR	28	-34.7	.38	44.19	54	-9.81	-	-	-	-	188	105	V
4	* 7.347	40.32	PK-U	35.4	-28.5	0	47.22	-	-	74	-26.78	-	-	190	107	H
	* 7.347	31.78	ADR	35.4	-28.5	.38	39.06	54	-14.94	-	-	-	-	190	107	H
9	* 7.347	39.22	PK-U	35.4	-28.5	0	46.12	-	-	74	-27.88	-	-	203	117	V
	* 7.347	28.71	ADR	35.4	-28.5	.38	35.99	54	-18.01	-	-	-	-	203	117	V
8	2.112	48.9	PK-U	31.7	-34.5	0	46.1	-	-	-	-	68.2	-22.1	208	108	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL



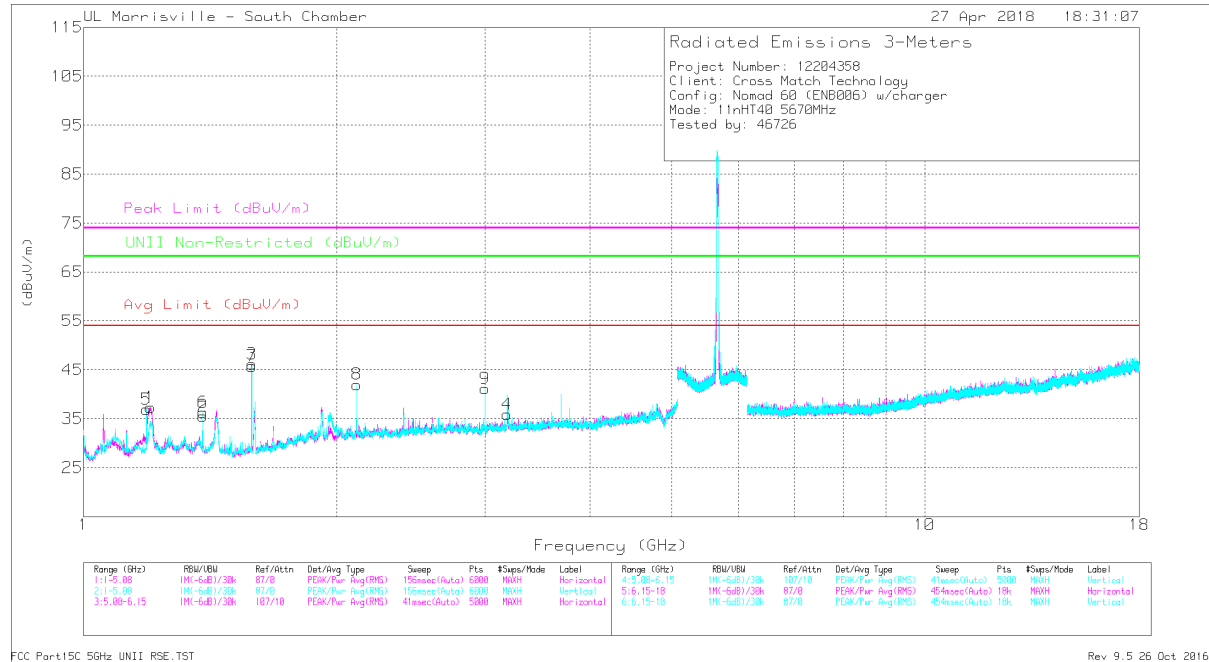
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.2	51.66	PK-U	28.5	-35.2	0	44.96	-	-	74	-29.04	-	-	166	104	H
	* 1.2	40.13	ADR	28.5	-35.2	.38	33.81	54	-20.19	-	-	-	-	166	104	H
2	* 1.437	49.66	PK-U	28.7	-34.8	0	43.56	-	-	74	-30.44	-	-	159	185	H
	* 1.437	37.46	ADR	28.7	-34.8	.38	31.74	54	-22.26	-	-	-	-	159	185	H
3	* 1.584	55.62	PK-U	28	-34.7	0	48.92	-	-	74	-25.08	-	-	257	133	H
	* 1.584	51.21	ADR	28	-34.7	.38	44.89	54	-9.11	-	-	-	-	257	133	H
5	* 1.188	48.25	PK-U	28.2	-35.2	0	41.25	-	-	74	-32.75	-	-	90	102	V
	* 1.188	42.29	ADR	28.2	-35.2	.38	35.67	54	-18.33	-	-	-	-	90	102	V
6	* 1.44	53.07	PK-U	28.6	-34.9	0	46.77	-	-	74	-27.23	-	-	278	208	V
	* 1.44	38.57	ADR	28.6	-34.9	.38	32.65	54	-21.35	-	-	-	-	278	208	V
7	* 1.584	55.7	PK-U	28	-34.7	0	49	-	-	74	-25	-	-	189	105	V
	* 1.584	50.5	ADR	28	-34.7	.38	44.18	54	-9.82	-	-	-	-	189	105	V
4	* 7.4	40.24	PK-U	35.5	-28.5	0	47.24	-	-	74	-26.76	-	-	186	122	H
	* 7.4	31.49	ADR	35.5	-28.5	.38	38.87	54	-15.13	-	-	-	-	186	122	H
9	* 7.4	40.25	PK-U	35.5	-28.5	0	47.25	-	-	74	-26.75	-	-	161	313	V
	* 7.4	32.43	ADR	35.5	-28.5	.38	39.81	54	-14.19	-	-	-	-	161	313	V
8	2.112	48.68	PK-U	31.7	-34.5	0	45.88	-	-	-	-	68.2	-22.32	212	104	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL



Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.2	51.49	PK-U	28.5	-35.2	0	44.79	-	-	74	-29.21	-	-	166	102	H
	* 1.2	39.83	ADR	28.5	-35.2	.38	33.51	54	-20.49	-	-	-	-	166	102	H
2	* 1.386	48.3	PK-U	28.7	-34.8	0	42.2	-	-	74	-31.8	-	-	4	248	H
	*** 1.386	43.64	ADR	28.7	-34.8	.38	37.92	54	-16.08	-	-	-	-	4	248	H
3	*** 1.584	55.85	PK-U	28	-34.7	0	49.15	-	-	74	-24.85	-	-	261	162	H
	*** 1.584	51.37	ADR	28	-34.7	.38	45.05	54	-8.95	-	-	-	-	261	162	H
5	*** 1.188	48.92	PK-U	28.2	-35.2	0	41.92	-	-	74	-32.08	-	-	79	104	V
	*** 1.188	42.15	ADR	28.2	-35.2	.38	35.53	54	-18.47	-	-	-	-	79	104	V
6	*** 1.386	47.46	PK-U	28.7	-34.8	0	41.36	-	-	74	-32.64	-	-	9	282	V
	*** 1.386	41.49	ADR	28.7	-34.8	.38	35.77	54	-18.23	-	-	-	-	9	282	V
7	*** 1.584	56.32	PK-U	28	-34.7	0	49.62	-	-	74	-24.38	-	-	186	106	V
	*** 1.584	50.76	ADR	28	-34.7	.38	44.44	54	-9.56	-	-	-	-	186	106	V
8	2.112	49.52	PK-U	31.7	-34.5	0	46.72	-	-	-	-	68.2	-21.48	195	126	V
9	3	46.89	PK-U	32.5	-33.7	0	45.69	-	-	-	-	68.2	-22.51	231	194	V
4	3.189	46.21	PK-U	32.8	-33.5	0	45.51	-	-	-	-	68.2	-22.69	286	192	H

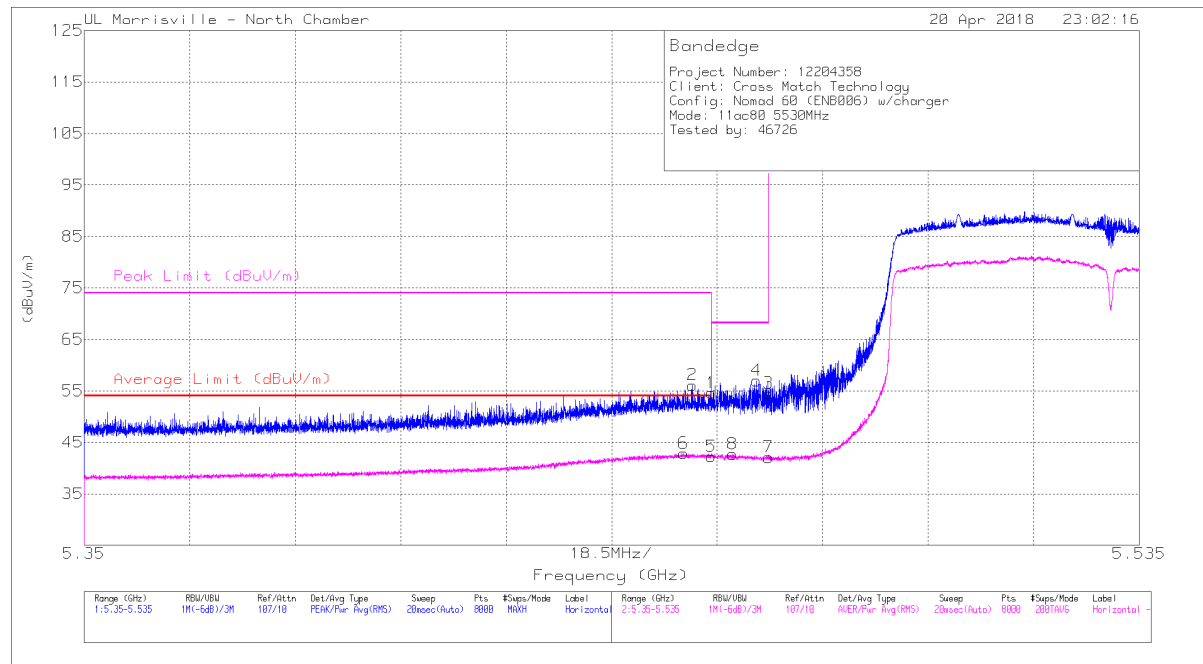
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.12. TX ABOVE 1 GHz 802.11acVHT80 MODE IN THE 5.6 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



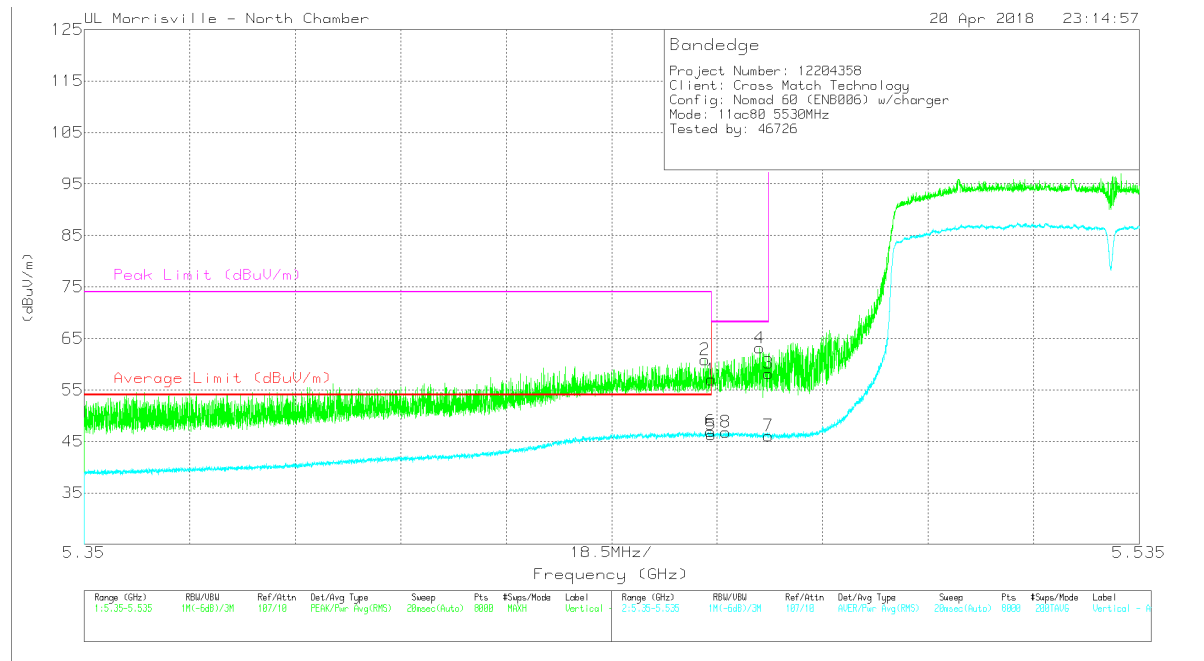
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	43.2	Pk	34.5	-23.1	0	54.6	-	-	74	-19.4	116	191	H
2	* 5.457	44.73	Pk	34.5	-23.1	0	56.13	-	-	74	-17.87	116	191	H
5	* 5.46	30.13	RMS	34.5	-23.1	.73	42.26	54	-11.74	-	-	116	191	H
6	* 5.455	30.77	RMS	34.5	-23.1	.73	42.9	54	-11.1	-	-	116	191	H
8	5.464	30.57	RMS	34.5	-23.1	.73	42.7	-	-	-	-	116	191	H
4	5.468	45.59	Pk	34.5	-23.1	0	56.99	-	-	68.2	-11.21	116	191	H
3	5.47	43.03	Pk	34.5	-23	0	54.53	-	-	68.2	-13.67	116	191	H
7	5.47	29.87	RMS	34.5	-23	.73	42.1	-	-	-	-	116	191	H

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

Pk - Peak detector

RMS - RMS detection

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



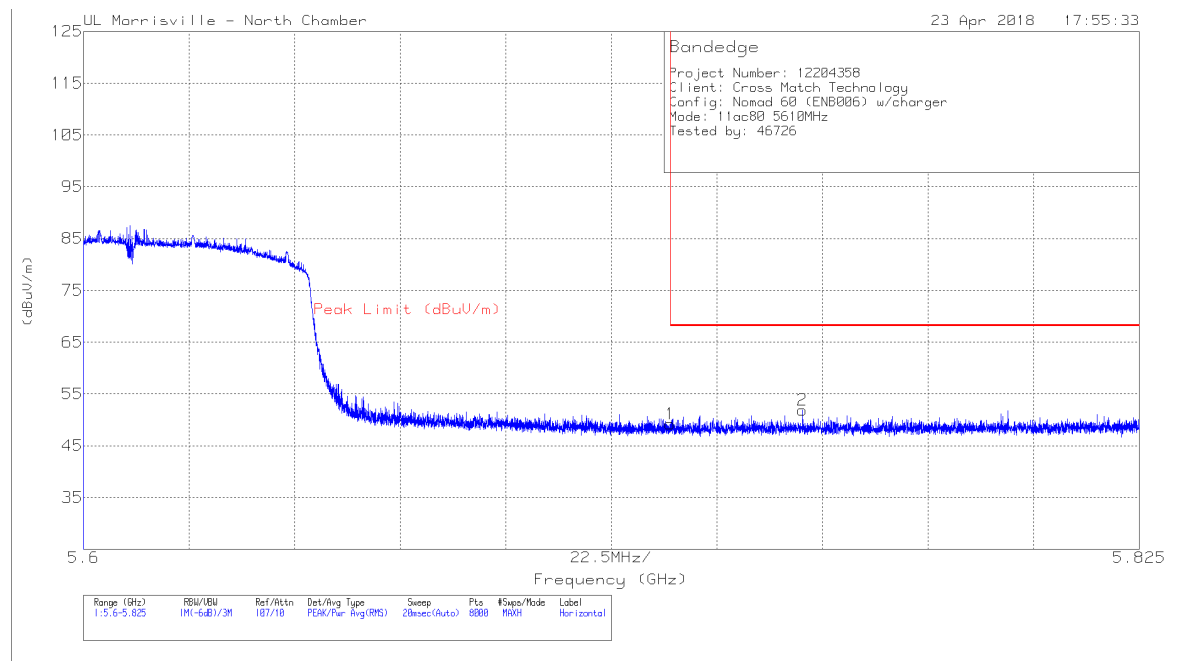
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	45.6	Pk	34.5	-23.1	0	57	-	-	74	-17	86	243	V
2	* 5.459	49.45	Pk	34.5	-23.1	0	60.85	-	-	74	-13.15	86	243	V
5	* 5.46	34.16	RMS	34.5	-23.1	.73	46.29	54	-7.71	-	-	86	243	V
6	* 5.46	34.83	RMS	34.5	-23.1	.73	46.96	54	-7.04	-	-	86	243	V
8	5.462	34.68	RMS	34.5	-23.1	.73	46.81	-	-	-	-	86	243	V
4	5.468	51.73	Pk	34.5	-23.1	0	63.13	-	-	68.2	-5.07	86	243	V
3	5.47	46.71	Pk	34.5	-23	0	58.21	-	-	68.2	-9.99	86	243	V
7	5.47	33.85	RMS	34.5	-23	.73	46.08	-	-	-	-	86	243	V

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

Pk - Peak detector

RMS - RMS detection

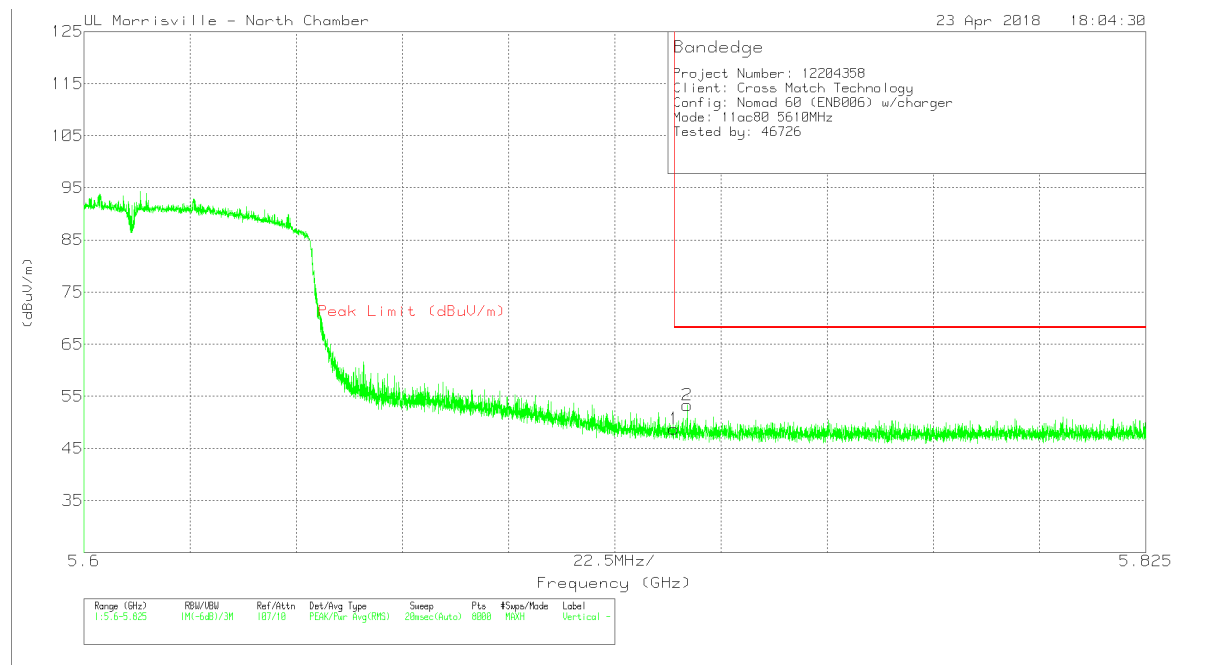
AUTHORIZED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (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	37.48	Pk	34.7	-23	0	49.18	68.2	-19.02	186	402	H
2	5.753	40.06	Pk	34.7	-22.9	0	51.86	68.2	-16.34	186	402	H

Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL, VERTICAL)

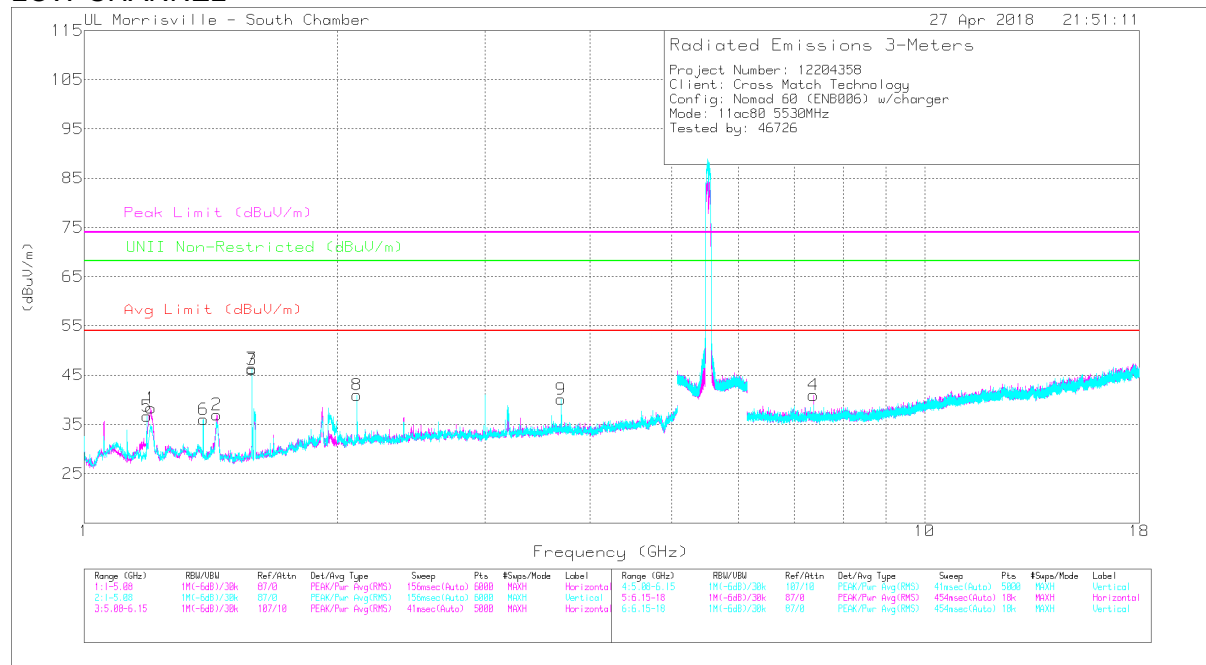


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	37.05	Pk	34.7	-23	0	48.75	68.2	-19.45	152	297	V
2	5.728	41.59	Pk	34.7	-23	0	53.29	68.2	-14.91	152	297	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



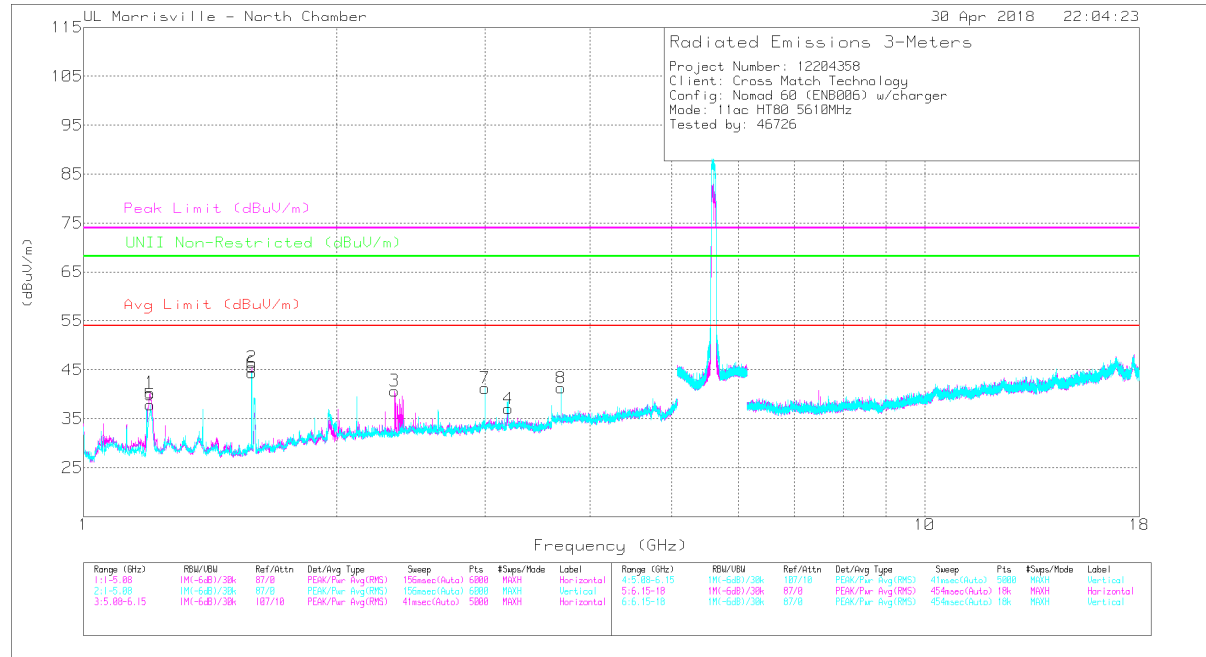
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0078 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.202	51.66	PK-U	28.5	-35.2	0	44.96	-	-	74	-29.04	-	-	164	103	H
	* 1.202	39.55	ADR	28.5	-35.2	.73	33.58	54	-20.42	-	-	-	-	164	103	H
2	* 1.439	53.88	PK-U	28.6	-34.9	0	47.58	-	-	74	-26.42	-	-	158	103	H
	* 1.439	38.44	ADR	28.6	-34.9	.73	32.87	54	-21.13	-	-	-	-	158	103	H
3	* 1.584	55.63	PK-U	28	-34.7	0	48.93	-	-	74	-25.07	-	-	263	157	H
	* 1.584	51.08	ADR	28	-34.7	.73	45.11	54	-8.89	-	-	-	-	263	157	H
5	* 1.188	48.41	PK-U	28.2	-35.2	0	41.41	-	-	74	-32.59	-	-	84	106	V
	* 1.188	41.75	ADR	28.2	-35.2	.73	35.48	54	-18.52	-	-	-	-	84	106	V
6	* 1.386	47.96	PK-U	28.7	-34.8	0	41.86	-	-	74	-32.14	-	-	5	279	V
	* 1.386	42.52	ADR	28.7	-34.8	.73	37.15	54	-16.85	-	-	-	-	5	279	V
7	* 1.584	55.76	PK-U	28	-34.7	0	49.06	-	-	74	-24.94	-	-	193	102	V
	* 1.584	50.55	ADR	28	-34.7	.73	44.58	54	-9.42	-	-	-	-	193	102	V
9	* 3.696	45.24	PK-U	33.3	-32.4	0	46.14	-	-	74	-27.86	-	-	213	312	V
	* 3.696	36.75	ADR	33.3	-32.4	.73	38.38	54	-15.62	-	-	-	-	213	312	V
4	* 7.373	40.42	PK-U	35.5	-28.6	0	47.32	-	-	74	-26.68	-	-	190	149	H
	* 7.373	32.47	ADR	35.5	-28.6	.73	40.1	54	-13.9	-	-	-	-	190	149	H
8	2.112	48.99	PK-U	31.7	-34.5	0	46.19	-	-	-	-	68.2	-22.01	203	132	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL



Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.2	55.33	PK-U	28.3	-37.1	0	46.53	-	-	74	-27.47	-	-	70	289	H
	* 1.2	42.43	ADR	28.3	-37.1	.73	34.36	54	-19.64	-	-	-	-	70	289	H
2	* 1.584	56.17	PK-U	28.3	-36	0	48.47	-	-	74	-25.53	-	-	222	168	H
	* 1.584	51.38	ADR	28.3	-36	.73	44.41	54	-9.59	-	-	-	-	222	168	H
3	* 2.345	47.66	PK-U	31.8	-34.6	0	44.86	-	-	74	-29.14	-	-	124	391	H
	* 2.345	30.43	ADR	31.8	-34.6	.73	28.36	54	-25.64	-	-	-	-	124	391	H
5	* 1.2	54.85	PK-U	28.3	-37.1	0	46.05	-	-	74	-27.95	-	-	299	106	V
	* 1.2	42	ADR	28.3	-37.1	.73	33.93	54	-20.07	-	-	-	-	299	106	V
6	* 1.584	55.09	PK-U	28.3	-36	0	47.39	-	-	74	-26.61	-	-	114	104	V
	* 1.584	49.89	ADR	28.3	-36	.73	42.92	54	-11.08	-	-	-	-	114	104	V
8	* 3.696	48.01	PK-U	33.3	-32.8	0	48.51	-	-	74	-25.49	-	-	163	309	V
	* 3.696	40.21	ADR	33.3	-32.8	.73	41.44	54	-12.56	-	-	-	-	163	309	V
7	3	47.17	PK-U	33.1	-33.3	0	46.97	-	-	-	-	68.2	-21.23	157	206	V
4	3.197	45.74	PK-U	33.3	-33.9	0	45.14	-	-	-	-	68.2	-23.06	163	180	H

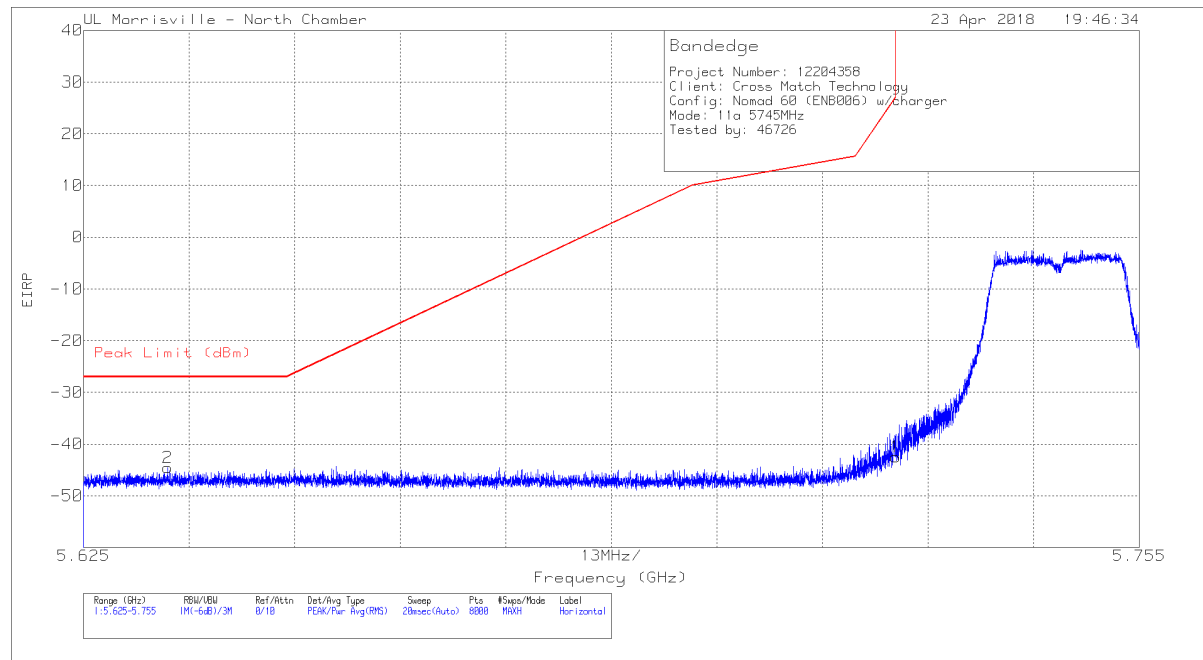
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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

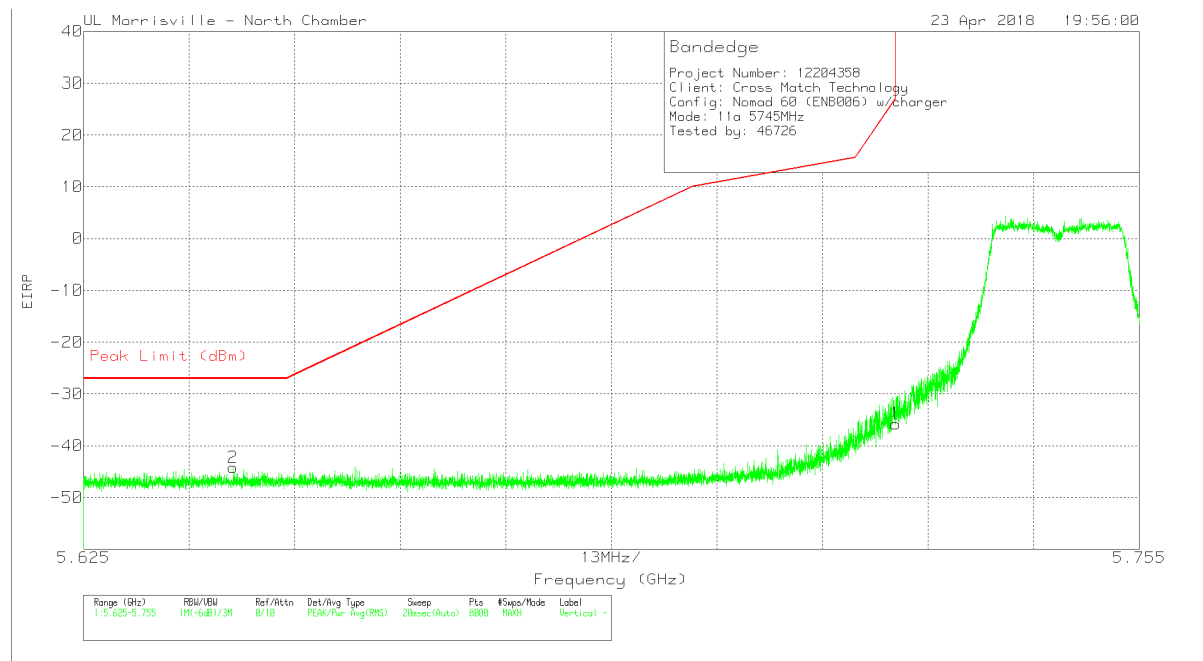
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (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	5.635	-67.85	Pk	34.6	-23.1	11.8	0	-44.55	-27	-17.55	223	359	H
1	5.725	-65.96	Pk	34.7	-23	11.8	0	-42.46	27	-69.46	223	359	H

Pk - Peak detector

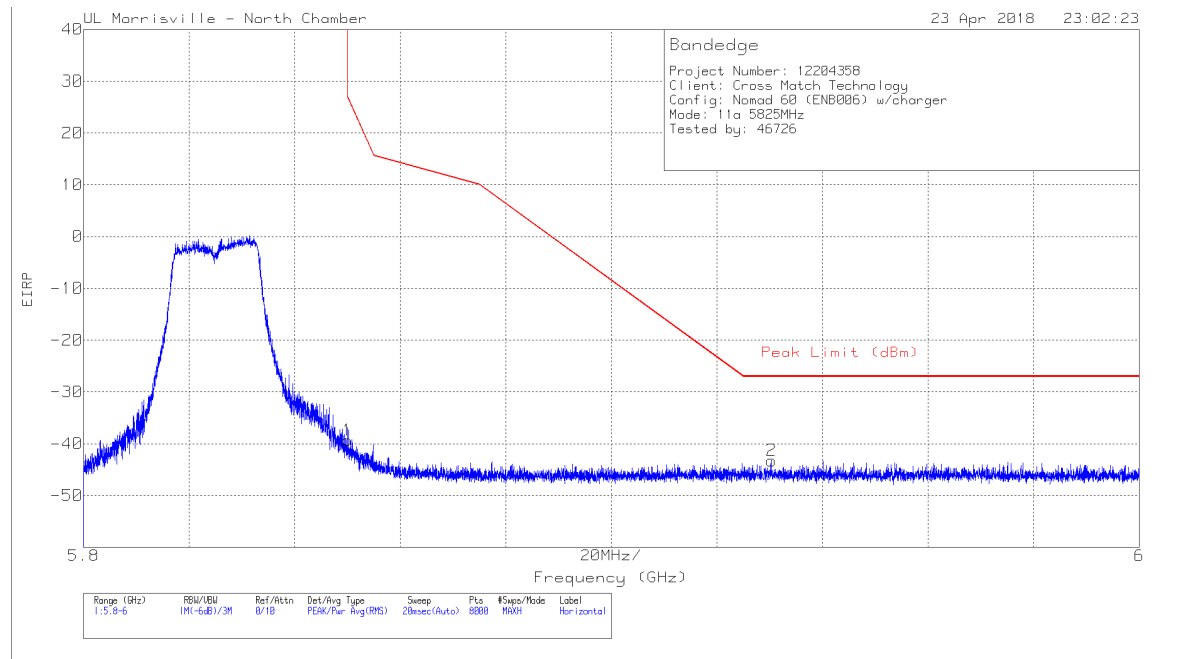
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (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	5.643	-67.51	Pk	34.6	-23.1	11.8	0	-44.21	-27	-17.21	140	245	V
1	5.725	-59.25	Pk	34.7	-23	11.8	0	-35.75	27	-62.75	140	245	V

Pk - Peak detector

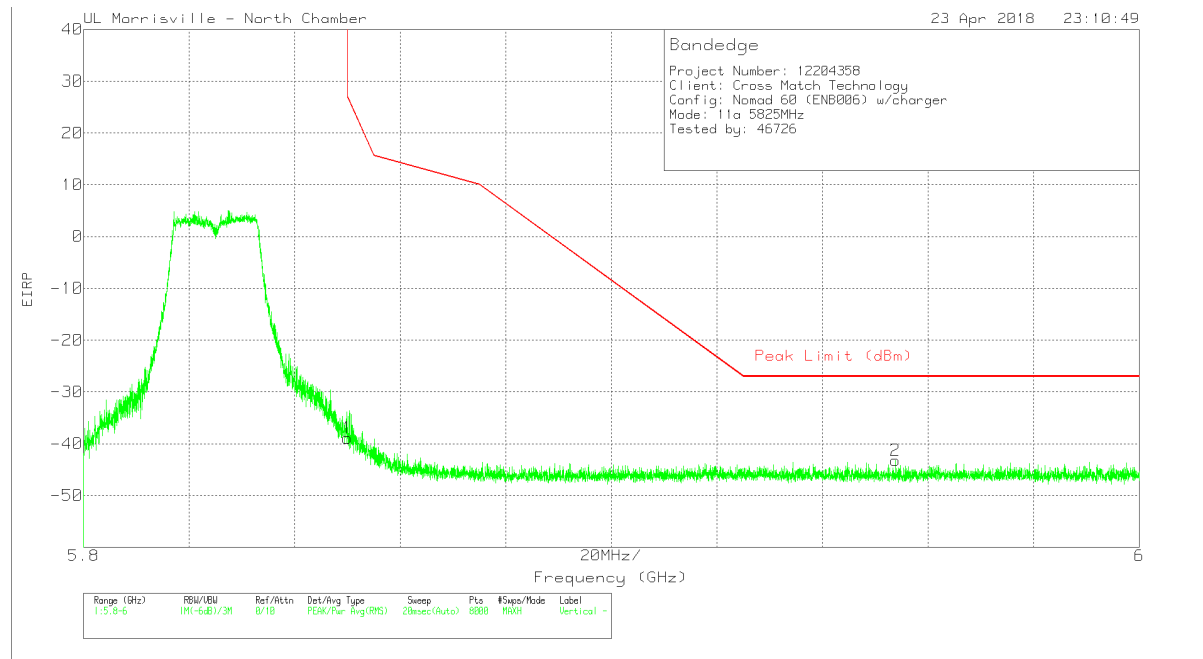
AUTHORIZED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (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
1	5.85	-63.41	Pk	34.8	-22.5	11.8	0	-39.31	26.99	-66.3	210	369	H
2	5.93	-67.86	Pk	34.9	-22.1	11.8	0	-43.26	-27	-16.26	210	369	H

Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL, VERTICAL)

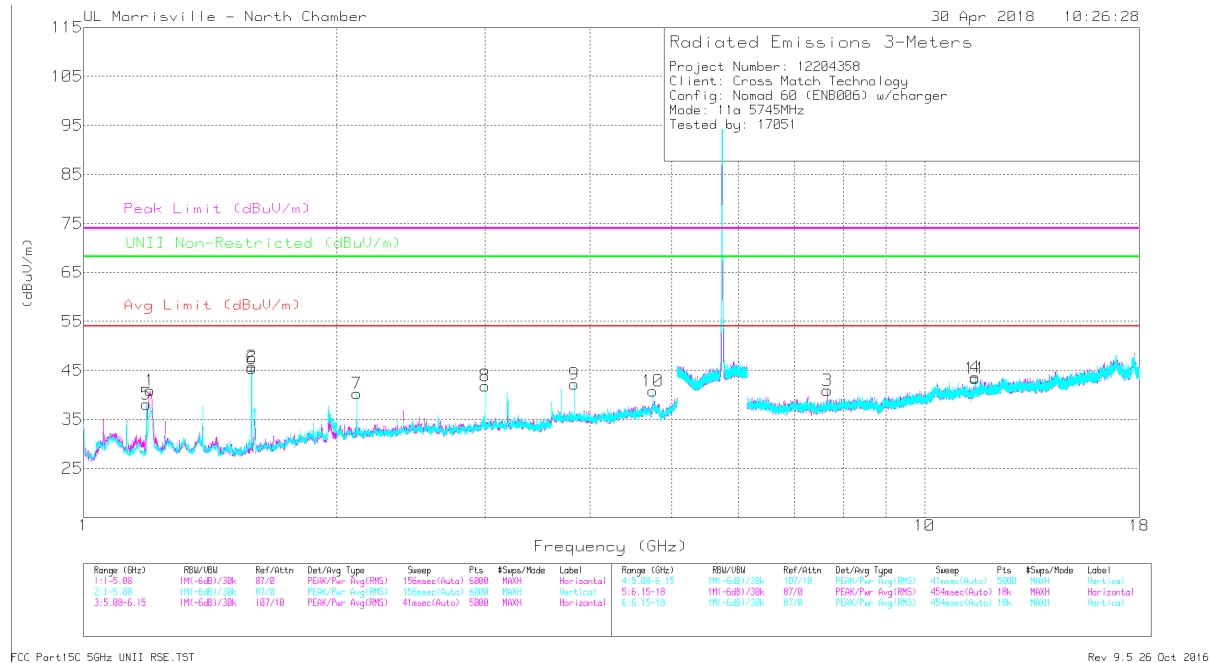


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-62.98	Pk	34.8	-22.5	11.8	0	-38.88	26.99	-65.87	150	379	V
2	5.954	-68	Pk	35	-22	11.8	0	-43.2	-27	-16.2	150	379	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



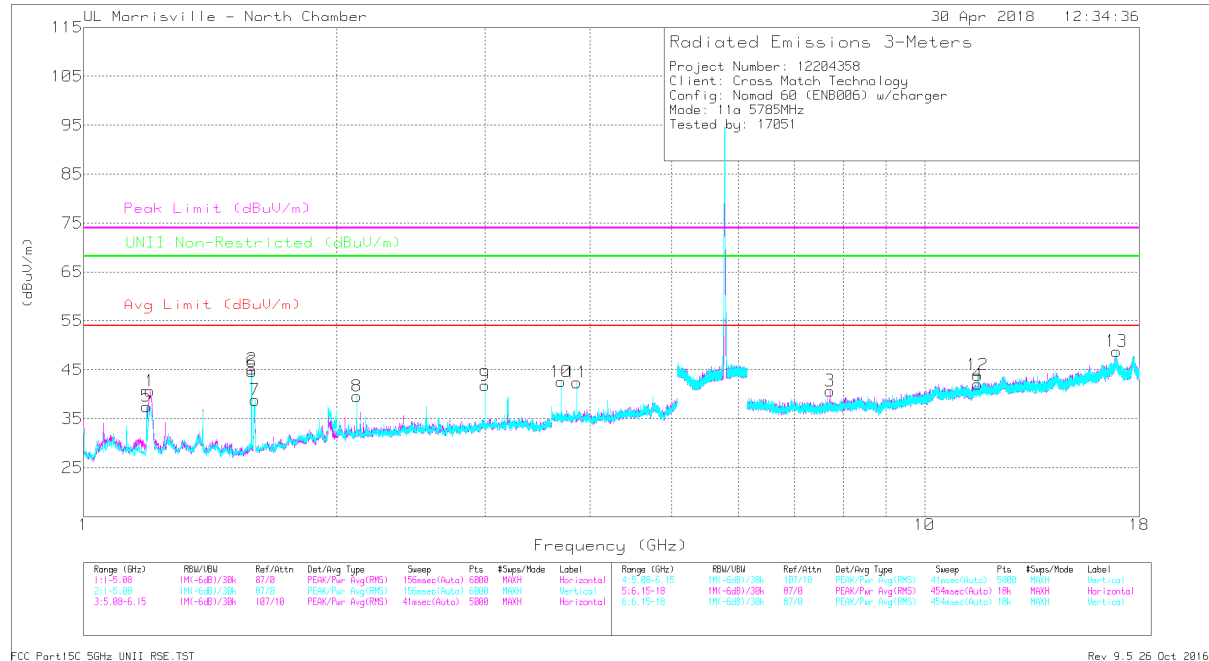
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.2	58.15	PK-U	28.3	-37.1	0	49.35	-	-	74	-24.65	-	-	71	148	H
	* 1.2	45.88	ADR	28.3	-37.1	.2	37.28	54	-16.72	-	-	-	-	71	148	H
2	* 1.584	56.3	PK-U	28.3	-36	0	48.6	-	-	74	-25.4	-	-	223	168	H
	* 1.584	51.77	ADR	28.3	-36	.2	44.27	54	-9.73	-	-	-	-	223	168	H
5	* 1.188	51.48	PK-U	28.1	-37.1	0	42.48	-	-	74	-31.52	-	-	357	100	V
	* 1.188	45.24	ADR	28.1	-37.1	.2	36.44	54	-17.56	-	-	-	-	357	100	V
6	* 1.584	55.67	PK-U	28.3	-36	0	47.97	-	-	74	-26.03	-	-	113	100	V
	* 1.584	50.48	ADR	28.3	-36	.2	42.98	54	-11.02	-	-	-	-	113	100	V
9	* 3.83	47.07	PK-U	33.5	-32.9	0	47.67	-	-	74	-26.33	-	-	144	217	V
	* 3.83	40.12	ADR	33.5	-32.9	.2	40.92	54	-13.08	-	-	-	-	144	217	V
10	* 4.752	44.83	PK-U	34	-31.9	0	46.93	-	-	74	-27.07	-	-	165	226	V
	* 4.752	34.66	ADR	34	-31.9	.2	36.96	54	-17.04	-	-	-	-	165	226	V
3	* 7.66	41.71	PK-U	35.7	-29.4	0	48.01	-	-	74	-25.99	-	-	143	190	H
	* 7.66	33.19	ADR	35.7	-29.4	.2	39.69	54	-14.31	-	-	-	-	143	190	H
4	* 11.492	37.72	PK-U	38.2	-25.6	0	50.32	-	-	74	-23.68	-	-	143	217	H
	* 11.49	27.13	ADR	38.2	-25.6	.2	39.93	54	-14.07	-	-	-	-	143	217	H
11	* 11.492	37.86	PK-U	38.2	-25.6	0	50.46	-	-	74	-23.54	-	-	174	101	V
	* 11.49	26.86	ADR	38.2	-25.6	.2	39.66	54	-14.34	-	-	-	-	174	101	V
7	2.112	48.38	PK-U	31.8	-35.2	0	44.98	-	-	-	-	68.2	-23.22	128	127	V
8	3	47.61	PK-U	33.1	-33.3	0	47.41	-	-	-	-	68.2	-20.79	161	197	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MIDDLE CHANNEL



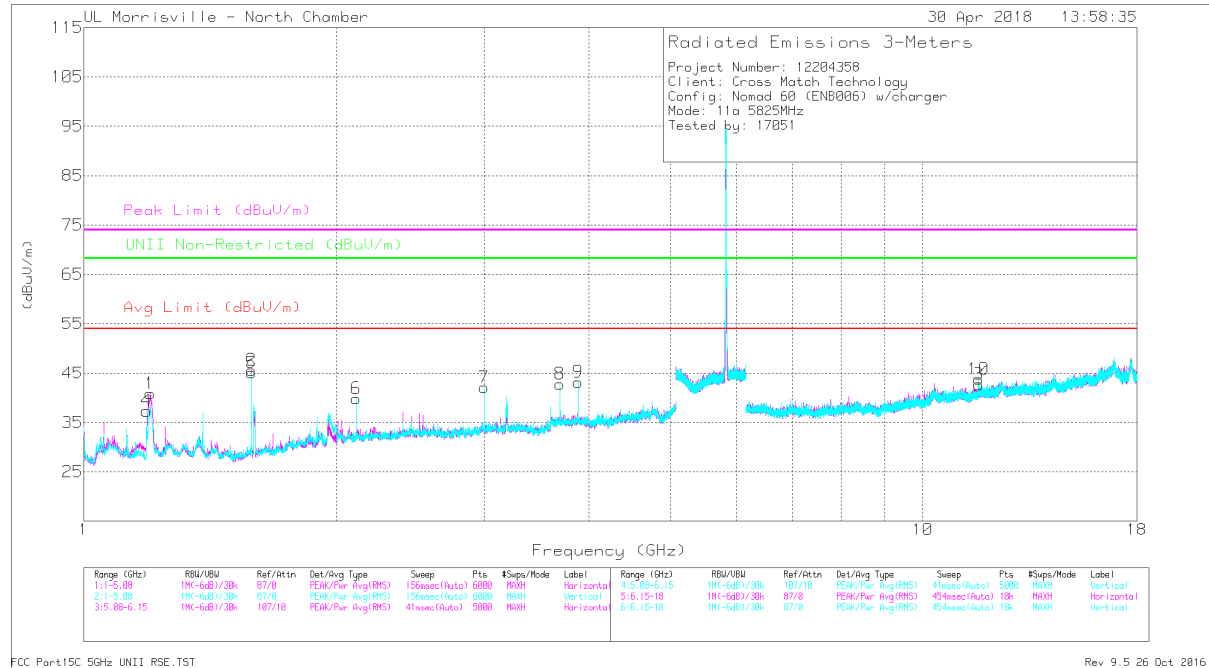
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.2	57.37	PK-U	28.4	-37.1	0	48.67	-	-	74	-25.33	-	-	72	149	H
	* 1.2	45.45	ADR	28.3	-37.1	.2	36.85	54	-17.15	-	-	-	-	72	149	H
2	* 1.584	56.22	PK-U	28.3	-36	0	48.52	-	-	74	-25.48	-	-	224	168	H
	* 1.584	51.56	ADR	28.3	-36	.2	44.06	54	-9.94	-	-	-	-	224	168	H
5	* 1.188	51.53	PK-U	28.1	-37.1	0	42.53	-	-	74	-31.47	-	-	353	100	V
	* 1.188	44.87	ADR	28.1	-37.1	.2	36.07	54	-17.93	-	-	-	-	353	100	V
6	* 1.584	55.32	PK-U	28.3	-36	0	47.62	-	-	74	-26.38	-	-	115	100	V
	* 1.584	50.28	ADR	28.3	-36	.2	42.78	54	-11.22	-	-	-	-	115	100	V
7	* 1.598	53.01	PK-U	28.4	-35.9	0	45.51	-	-	74	-28.49	-	-	161	188	V
	* 1.598	39.76	ADR	28.5	-35.9	.2	32.56	54	-21.44	-	-	-	-	161	188	V
10	* 3.696	47.72	PK-U	33.3	-32.8	0	48.22	-	-	74	-25.78	-	-	163	312	V
	* 3.696	40.36	ADR	33.3	-32.8	.2	41.06	54	-12.94	-	-	-	-	163	312	V
11	* 3.857	47.33	PK-U	33.5	-32.8	0	48.03	-	-	74	-25.97	-	-	144	213	V
	* 3.857	41.2	ADR	33.5	-32.8	.2	42.1	54	-11.9	-	-	-	-	144	213	V
3	* 7.713	40.79	PK-U	35.7	-29.2	0	47.29	-	-	74	-26.71	-	-	142	188	H
	* 7.713	31.84	ADR	35.7	-29.2	.2	38.54	54	-15.46	-	-	-	-	142	188	H
4	* 11.571	38.52	PK-U	38.3	-26.6	0	50.22	-	-	74	-23.78	-	-	140	230	H
	* 11.57	27.58	ADR	38.3	-26.6	.2	39.48	54	-14.52	-	-	-	-	140	230	H
12	* 11.572	38.49	PK-U	38.3	-26.7	0	50.09	-	-	74	-23.91	-	-	178	100	V
	* 11.57	27.6	ADR	38.3	-26.6	.2	39.5	54	-14.5	-	-	-	-	178	100	V
8	2.112	48.54	PK-U	31.8	-35.2	0	45.14	-	-	-	-	68.2	-23.06	118	127	V
9	3	46.6	PK-U	33.1	-33.3	0	46.4	-	-	-	-	68.2	-21.8	163	198	V
13	16.912	36.65	PK-U	41.3	-23.7	0	54.25	-	-	-	-	68.2	-13.95	115	200	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.2	57.57	PK-U	28.3	-37.1	0	48.77	-	-	74	-25.23	-	-	74	149	H
	* 1.2	45.35	ADR	28.3	-37.1	.2	36.75	54	-17.25	-	-	-	-	74	149	H
2	* 1.584	56	PK-U	28.3	-36	0	48.3	-	-	74	-25.7	-	-	224	169	H
	* 1.584	51.44	ADR	28.3	-36	.2	43.94	54	-10.06	-	-	-	-	224	169	H
4	* 1.188	51.4	PK-U	28.1	-37.1	0	42.4	-	-	74	-31.6	-	-	357	100	V
	* 1.188	44.78	ADR	28.1	-37.1	.2	35.98	54	-18.02	-	-	-	-	357	100	V
5	* 1.584	55.14	PK-U	28.3	-36	0	47.44	-	-	74	-26.56	-	-	111	100	V
	* 1.584	50.14	ADR	28.3	-36	.2	42.64	54	-11.36	-	-	-	-	111	100	V
8	* 3.696	47.81	PK-U	33.3	-32.8	0	48.31	-	-	74	-25.69	-	-	164	311	V
	* 3.696	40.36	ADR	33.3	-32.8	.2	41.06	54	-12.94	-	-	-	-	164	311	V
9	* 3.883	47.8	PK-U	33.5	-32.8	0	48.5	-	-	74	-25.5	-	-	144	209	V
	* 3.883	42.06	ADR	33.5	-32.8	.2	42.96	54	-11.04	-	-	-	-	144	209	V
3	* 11.65	39.09	PK-U	38.4	-26.6	0	50.89	-	-	74	-23.11	-	-	177	241	H
	* 11.65	27.26	ADR	38.4	-26.6	.2	39.26	54	-14.74	-	-	-	-	177	241	H
10	* 11.651	40.05	PK-U	38.4	-26.6	0	51.85	-	-	74	-22.15	-	-	175	100	V
	* 11.65	27.99	ADR	38.4	-26.6	.2	39.99	54	-14.01	-	-	-	-	175	100	V
6	2.112	48.18	PK-U	31.8	-35.2	0	44.78	-	-	-	-	68.2	-23.42	120	128	V
7	3	47.28	PK-U	33.1	-33.3	0	47.08	-	-	-	-	68.2	-21.12	161	197	V

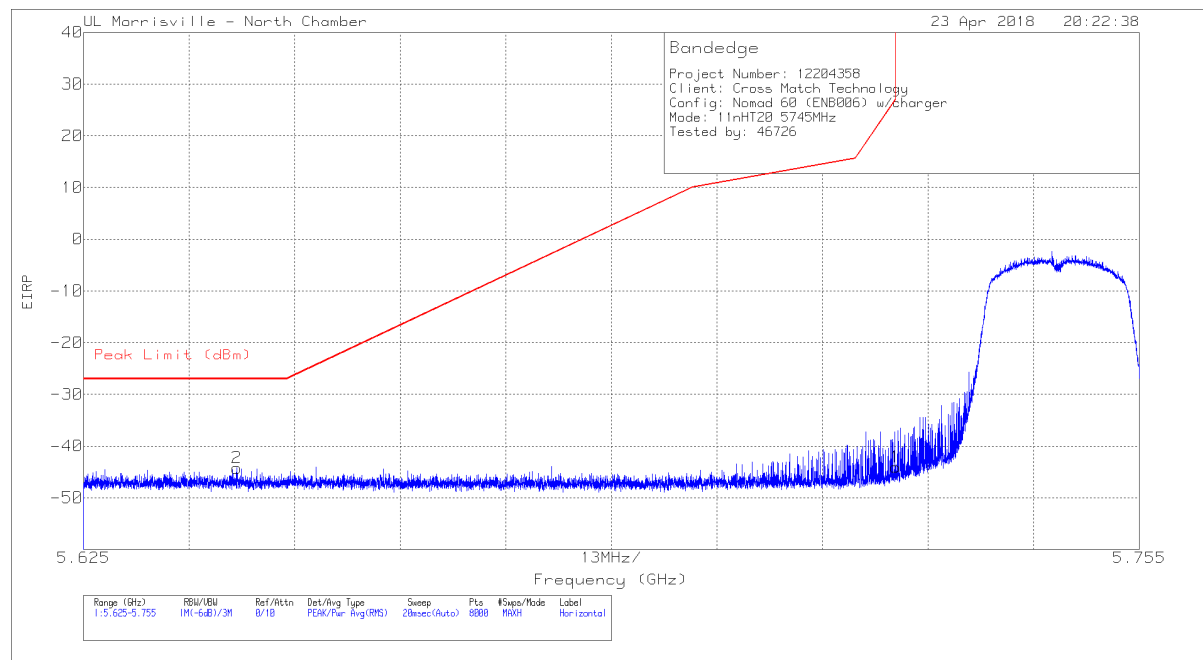
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.14. TX ABOVE 1 GHz 802.11nHT20 MODE IN THE 5.8 GHz BAND

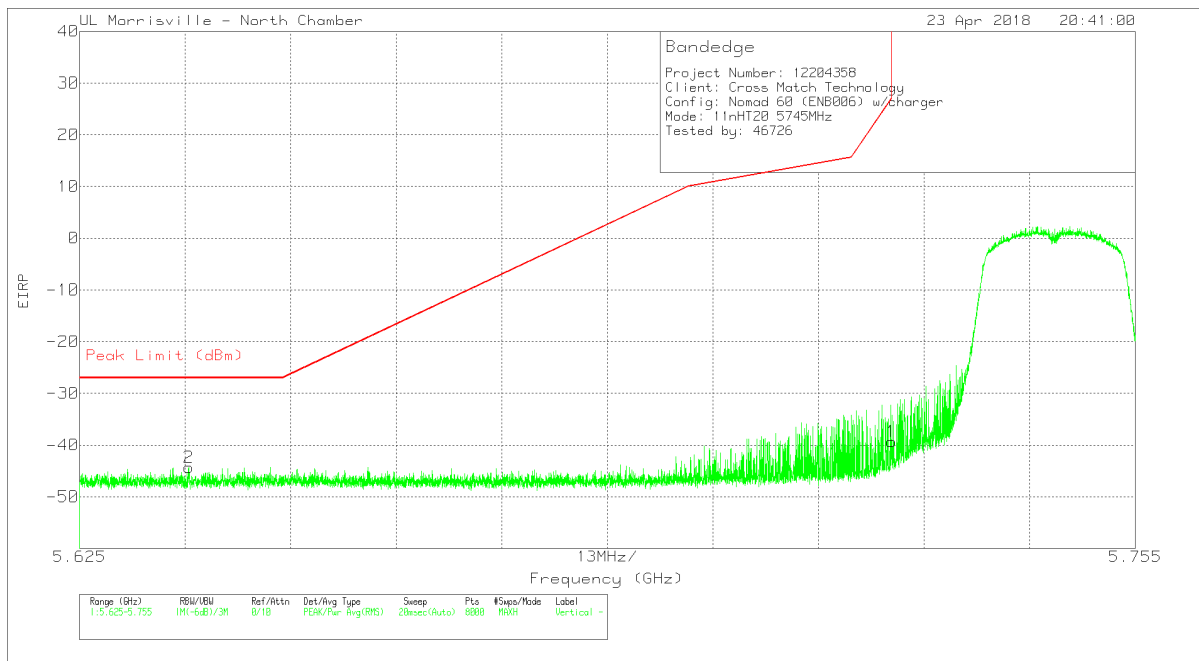
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (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	5.644	-67.53	Pk	34.6	-23.1	11.8	0	-44.23	-27	-17.23	181	385	H
1	5.725	-67.58	Pk	34.7	-23	11.8	0	-44.08	27	-71.08	181	385	H

Pk - Peak detector

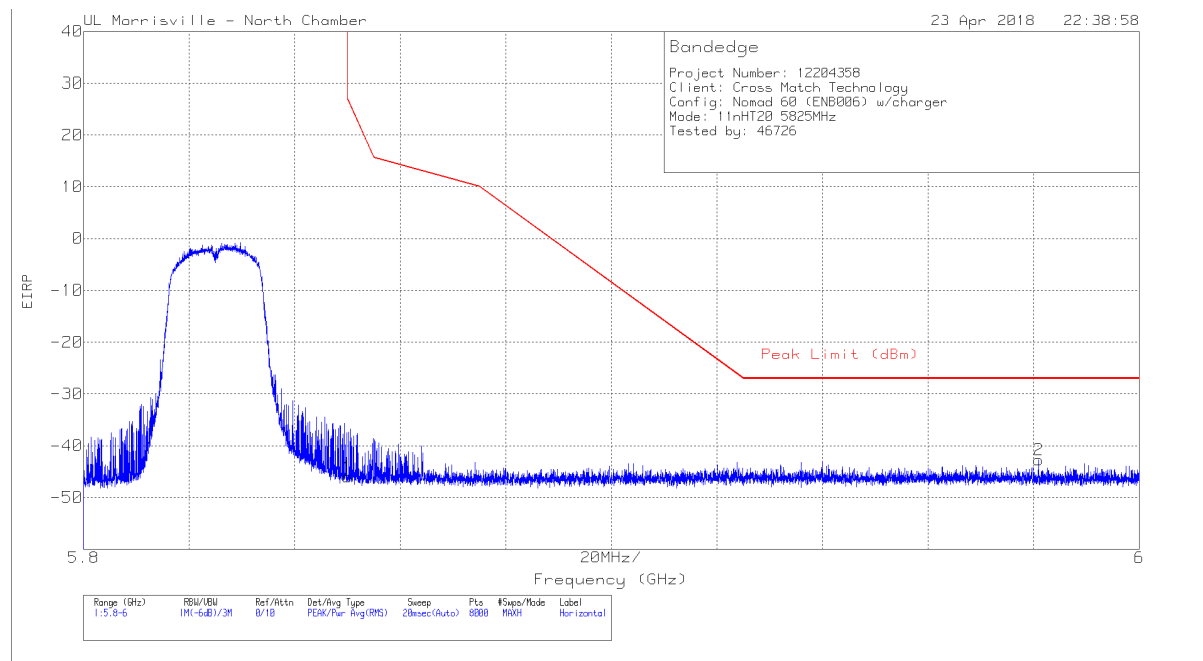
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (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	5.638	-67.6	Pk	34.6	-23.1	11.8	0	-44.3	-27	-17.3	142	146	V
1	5.725	-62.82	Pk	34.7	-23	11.8	0	-39.32	27	-66.32	142	146	V

Pk - Peak detector

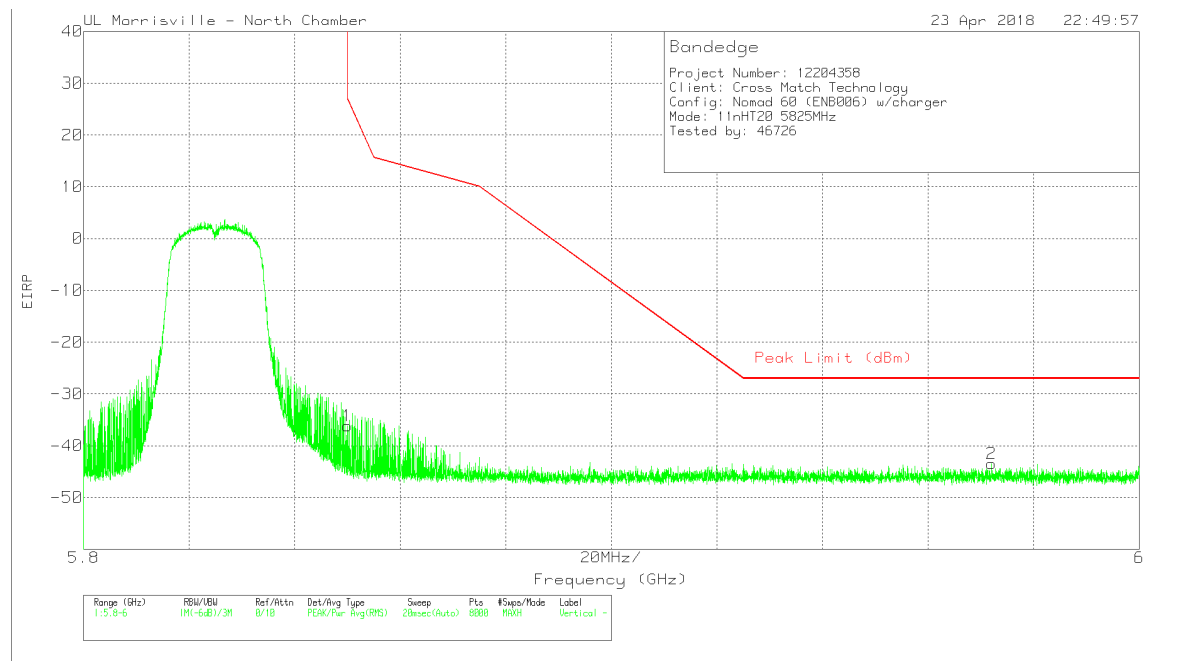
AUTHORIZED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (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
1	5.85	-70.14	Pk	34.8	-22.5	11.8	0	-46.04	26.99	-73.03	218	369	H
2	5.981	-67.61	Pk	35.1	-22	11.8	0	-42.71	-27	-15.71	218	369	H

Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL, VERTICAL)

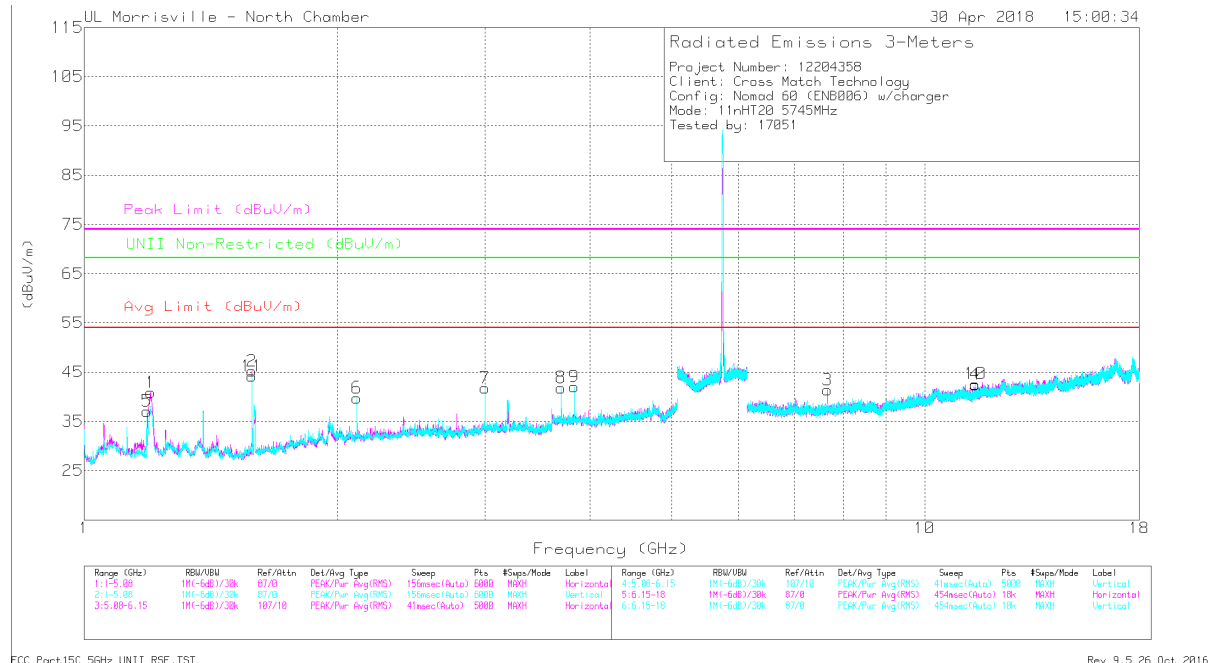


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-60.25	Pk	34.8	-22.5	11.8	0	-36.15	26.99	-63.14	143	340	V
2	5.972	-68.39	Pk	35	-21.9	11.8	0	-43.49	-27	-16.49	143	340	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



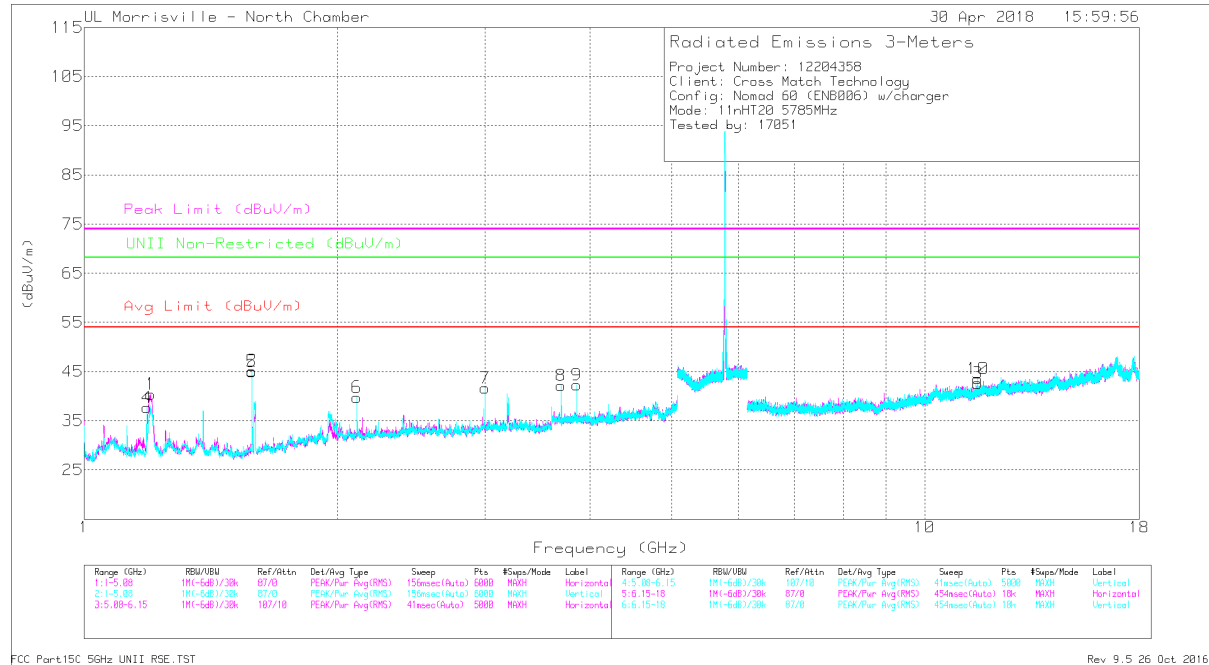
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.2	56.96	PK-U	28.4	-37.1	0	48.26	-	-	74	-25.74	-	-	75	149	H
	* 1.2	45.3	ADR	28.3	-37.1	.66	37.16	54	-16.84	-	-	-	-	75	149	H
2	* 1.584	56.15	PK-U	28.3	-36	0	48.45	-	-	74	-25.55	-	-	207	169	H
	* 1.584	51.46	ADR	28.3	-36	.66	44.42	54	-9.58	-	-	-	-	207	169	H
5	* 1.188	51.69	PK-U	28.1	-37.1	0	42.69	-	-	74	-31.31	-	-	351	100	V
	* 1.188	44.91	ADR	28.1	-37.1	.66	36.57	54	-17.43	-	-	-	-	351	100	V
11	* 1.584	55.11	PK-U	28.3	-36	0	47.41	-	-	74	-26.59	-	-	112	100	V
	* 1.584	50.2	ADR	28.3	-36	.66	43.16	54	-10.84	-	-	-	-	112	100	V
8	* 3.696	47.8	PK-U	33.3	-32.8	0	48.3	-	-	74	-25.7	-	-	165	312	V
	* 3.696	40.33	ADR	33.3	-32.8	.66	41.49	54	-12.51	-	-	-	-	165	312	V
9	* 3.83	46.8	PK-U	33.5	-32.9	0	47.4	-	-	74	-26.6	-	-	140	218	V
	* 3.83	40.01	ADR	33.5	-32.9	.66	41.27	54	-12.73	-	-	-	-	140	218	V
3	* 7.66	41.61	PK-U	35.7	-29.4	0	47.91	-	-	74	-26.09	-	-	142	190	H
	* 7.66	33.19	ADR	35.7	-29.4	.66	40.15	54	-13.85	-	-	-	-	142	190	H
4	* 11.489	38.58	PK-U	38.2	-25.6	0	51.18	-	-	74	-22.82	-	-	142	216	H
	* 11.49	27.05	ADR	38.2	-25.6	.66	40.31	54	-13.69	-	-	-	-	142	216	H
10	* 11.49	39.29	PK-U	38.2	-25.6	0	51.89	-	-	74	-22.11	-	-	176	100	V
	* 11.49	26.8	ADR	38.2	-25.6	.66	40.06	54	-13.94	-	-	-	-	176	100	V
6	2.112	48.32	PK-U	31.8	-35.2	0	44.92	-	-	-	-	68.2	-23.28	122	128	V
7	3	46.87	PK-U	33.1	-33.3	0	46.67	-	-	-	-	68.2	-21.53	161	199	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MIDDLE CHANNEL



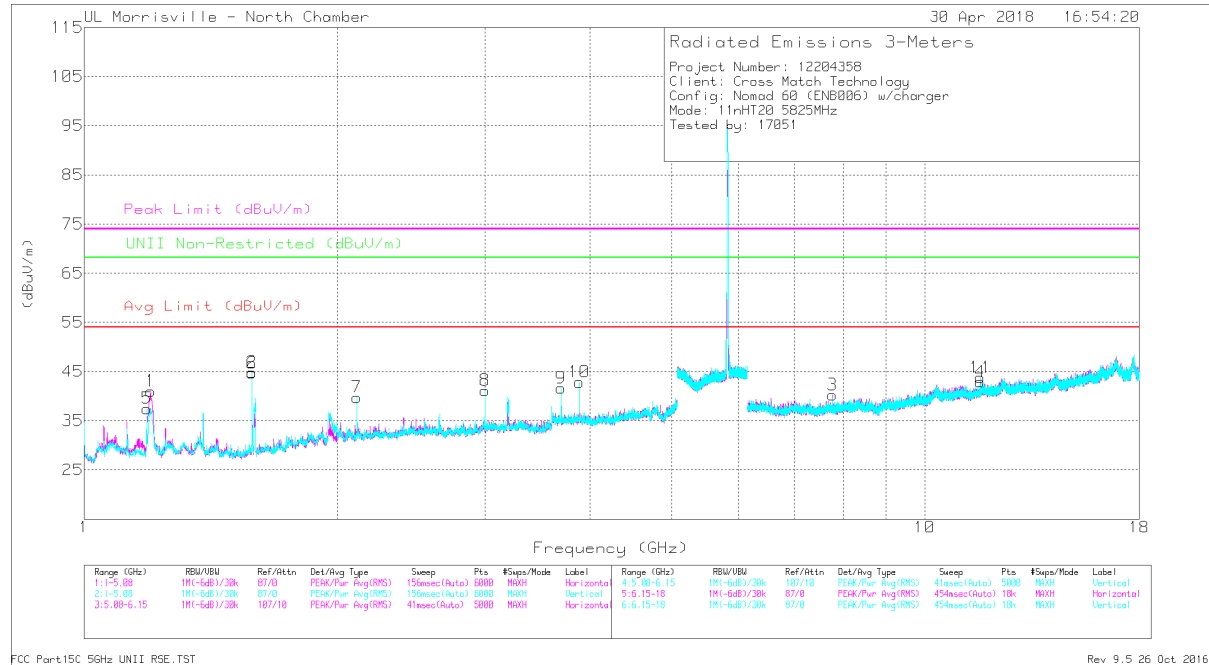
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.2	56.94	PK-U	28.4	-37.1	0	48.24	-	-	74	-25.76	-	-	70	148	H
	* 1.2	45.44	ADR	28.3	-37.1	.66	37.3	54	-16.7	-	-	-	-	70	148	H
2	* 1.584	56.26	PK-U	28.3	-36	0	48.56	-	-	74	-25.44	-	-	222	169	H
	* 1.584	51.58	ADR	28.3	-36	.66	44.54	54	-9.46	-	-	-	-	222	169	H
4	* 1.188	52.12	PK-U	28.1	-37.1	0	43.12	-	-	74	-30.88	-	-	352	100	V
	* 1.188	45	ADR	28.1	-37.1	.66	36.66	54	-17.34	-	-	-	-	352	100	V
5	* 1.584	55.15	PK-U	28.3	-36	0	47.45	-	-	74	-26.55	-	-	111	100	V
	* 1.584	50.23	ADR	28.3	-36	.66	43.19	54	-10.81	-	-	-	-	111	100	V
8	* 3.696	47.81	PK-U	33.3	-32.8	0	48.31	-	-	74	-25.69	-	-	162	311	V
	* 3.696	40.45	ADR	33.3	-32.8	.66	41.61	54	-12.39	-	-	-	-	162	311	V
9	* 3.857	47.7	PK-U	33.5	-32.8	0	48.4	-	-	74	-25.6	-	-	144	210	V
	* 3.857	41.18	ADR	33.5	-32.8	.66	42.54	54	-11.46	-	-	-	-	144	210	V
3	* 11.568	38.07	PK-U	38.3	-26.6	0	49.77	-	-	74	-24.23	-	-	141	212	H
	* 11.57	27.11	ADR	38.3	-26.6	.66	39.47	54	-14.53	-	-	-	-	141	212	H
10	* 11.569	38.15	PK-U	38.3	-26.6	0	49.85	-	-	74	-24.15	-	-	174	100	V
	* 11.57	27.11	ADR	38.3	-26.6	.66	39.47	54	-14.53	-	-	-	-	174	100	V
6	2.112	48.75	PK-U	31.8	-35.2	0	45.35	-	-	-	-	68.2	-22.85	118	130	V
7	3	47.51	PK-U	33.1	-33.3	0	47.31	-	-	-	-	68.2	-20.89	159	199	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.2	57.63	PK-U	28.3	-37.1	0	48.83	-	-	74	-25.17	-	-	74	149	H
	* 1.2	45.48	ADR	28.3	-37.1	.66	37.34	54	-16.66	-	-	-	-	74	149	H
2	* 1.584	56.44	PK-U	28.3	-36	0	48.74	-	-	74	-25.26	-	-	224	169	H
	* 1.584	51.55	ADR	28.3	-36	.66	44.51	54	-9.49	-	-	-	-	224	169	H
5	* 1.188	51.95	PK-U	28.1	-37.1	0	42.95	-	-	74	-31.05	-	-	352	102	V
	* 1.188	45.19	ADR	28.1	-37.1	.66	36.85	54	-17.15	-	-	-	-	352	102	V
6	* 1.584	55.19	PK-U	28.3	-36	0	47.49	-	-	74	-26.51	-	-	112	100	V
	* 1.584	50.2	ADR	28.3	-36	.66	43.16	54	-10.84	-	-	-	-	112	100	V
9	* 3.696	48.26	PK-U	33.3	-32.8	0	48.76	-	-	74	-25.24	-	-	164	311	V
	* 3.696	40.52	ADR	33.3	-32.8	.66	41.68	54	-12.32	-	-	-	-	164	311	V
10	* 3.883	47.6	PK-U	33.5	-32.8	0	48.3	-	-	74	-25.7	-	-	144	211	V
	* 3.883	41.75	ADR	33.5	-32.8	.66	43.11	54	-10.89	-	-	-	-	144	211	V
4	* 11.65	39.34	PK-U	38.4	-26.6	0	51.14	-	-	74	-22.86	-	-	179	245	H
	* 11.65	27.24	ADR	38.4	-26.6	.66	39.7	54	-14.3	-	-	-	-	179	245	H
11	* 11.649	39.07	PK-U	38.4	-26.6	0	50.87	-	-	74	-23.13	-	-	176	100	V
	* 11.65	27.55	ADR	38.4	-26.6	.66	40.01	54	-13.99	-	-	-	-	176	100	V
7	2.112	48.39	PK-U	31.8	-35.2	0	44.99	-	-	-	-	68.2	-23.21	120	127	V
8	3	46.95	PK-U	33.1	-33.3	0	46.75	-	-	-	-	68.2	-21.45	161	197	V
3	7.766	40.51	PK-U	35.7	-29	0	47.21	-	-	-	-	68.2	-20.99	67	213	H

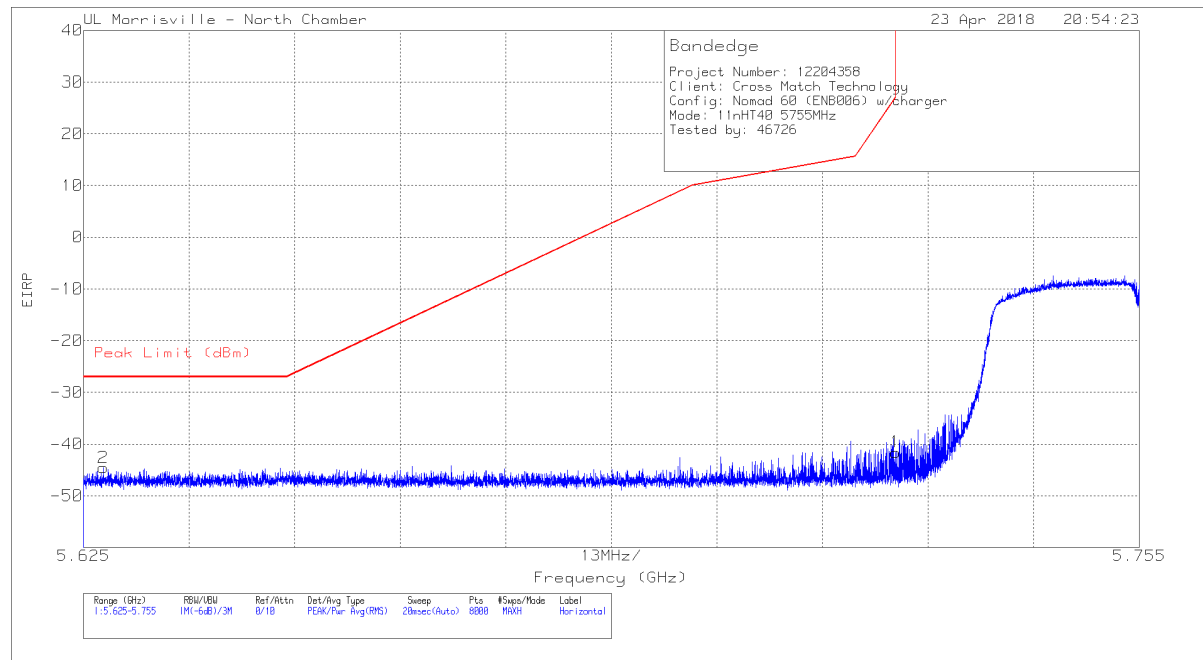
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.15. TX ABOVE 1 GHz 802.11nHT40 MODE IN THE 5.8 GHz BAND

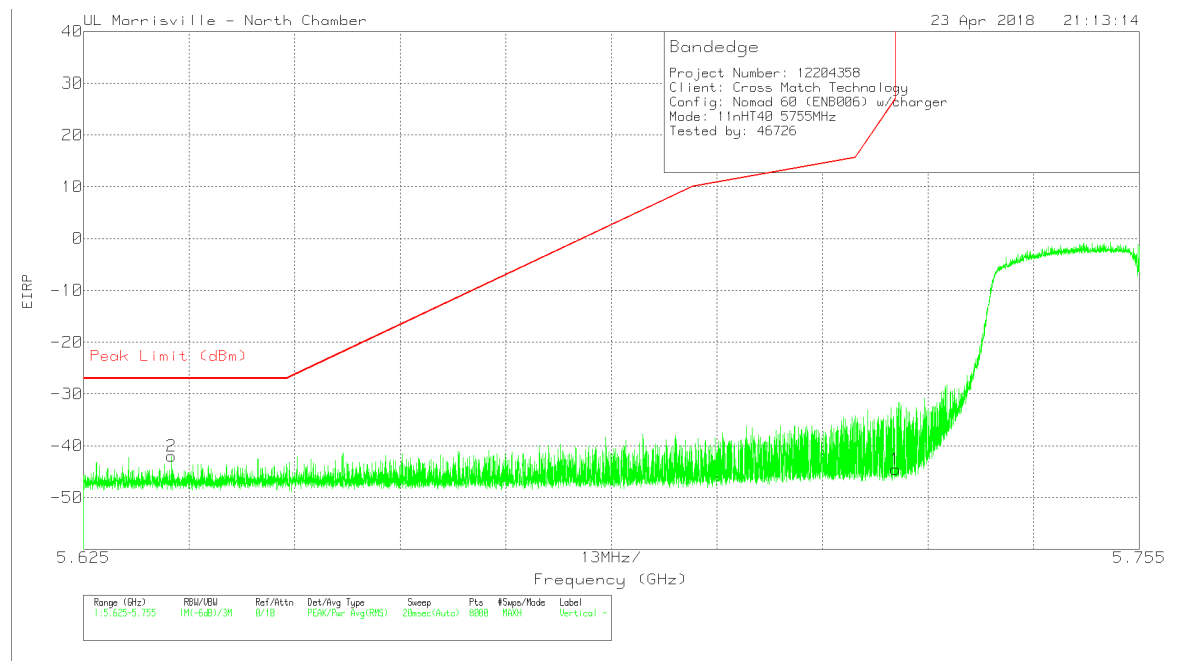
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (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	5.627	-67.76	Pk	34.6	-23.2	11.8	0	-44.56	-27	-17.56	235	174	H
1	5.725	-65.07	Pk	34.7	-23	11.8	0	-41.57	27	-68.57	235	174	H

Pk - Peak detector

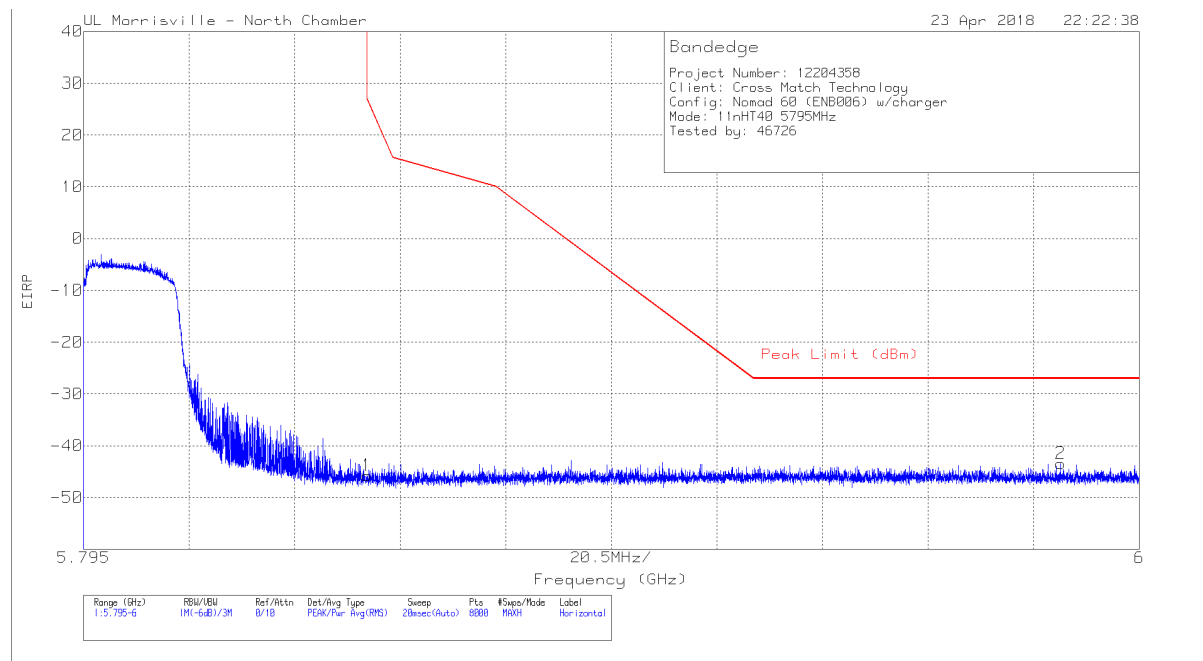
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (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	5.636	-65.33	Pk	34.6	-23.1	11.8	0	-42.03	-27	-15.03	177	212	V
1	5.725	-68.07	Pk	34.7	-23	11.8	0	-44.57	27	-71.57	177	212	V

Pk - Peak detector

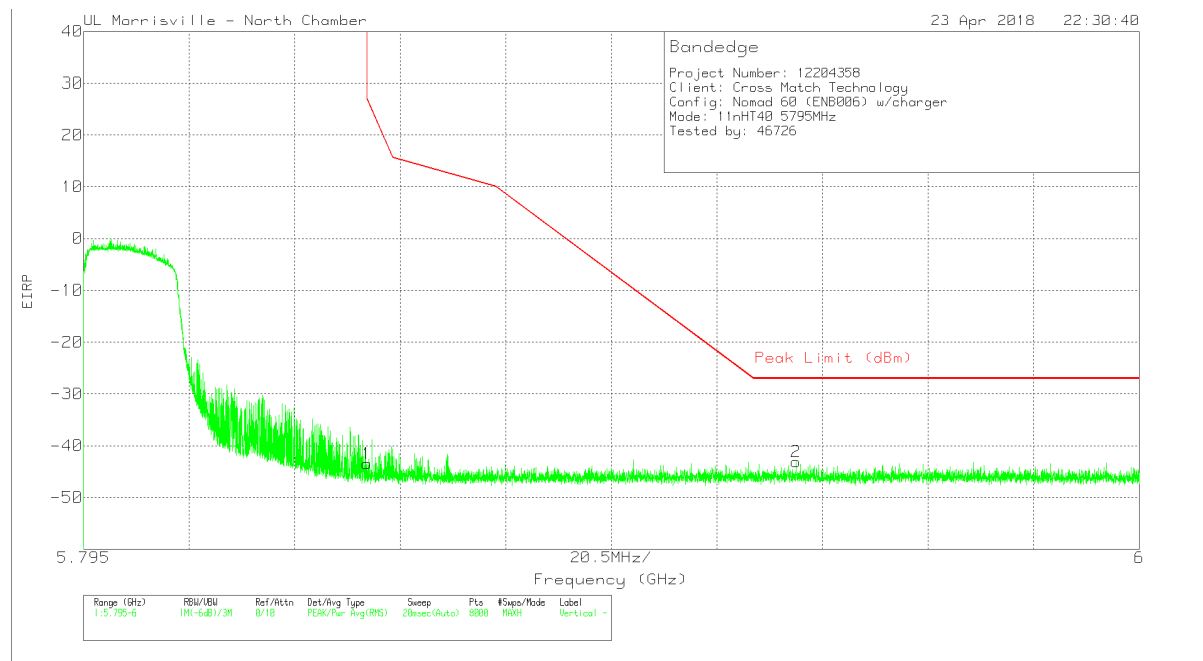
AUTHORIZED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (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
1	5.85	-69.82	Pk	34.8	-22.5	11.8	0	-45.72	26.95	-72.67	210	395	H
2	5.985	-68.31	Pk	35.1	-22	11.8	0	-43.41	-27	-16.41	210	395	H

Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL, VERTICAL)

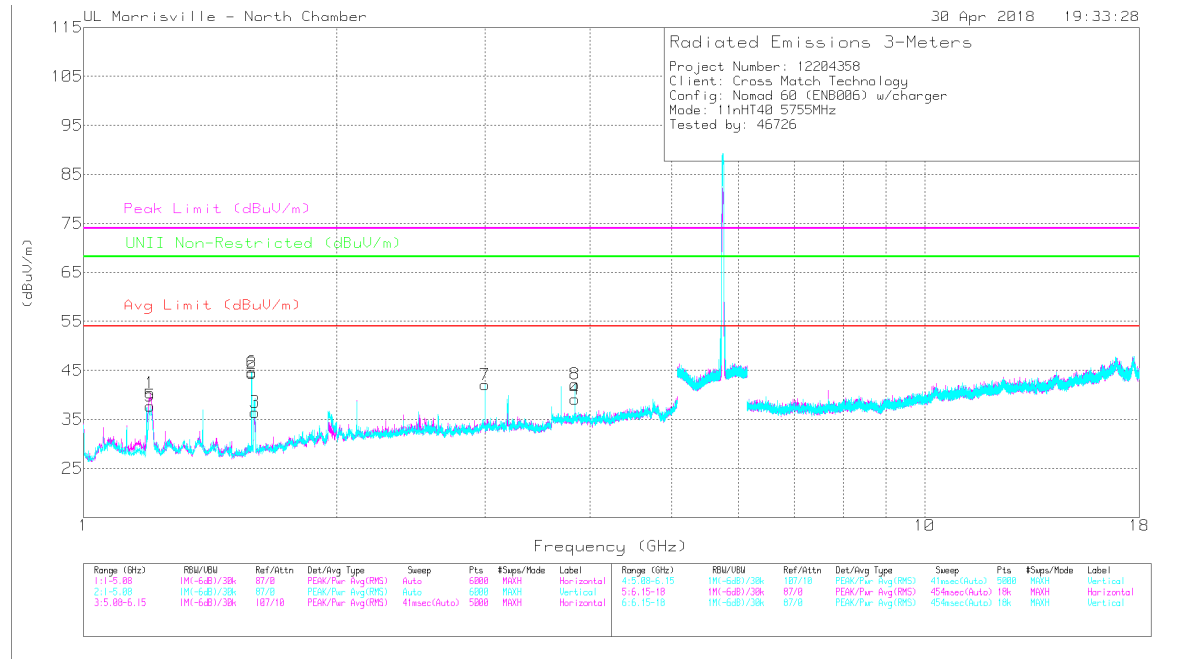


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-67.57	Pk	34.8	-22.5	11.8	0	-43.47	26.95	-70.42	150	296	V
2	5.933	-67.72	Pk	34.9	-22.1	11.8	0	-43.12	-27	-16.12	150	296	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



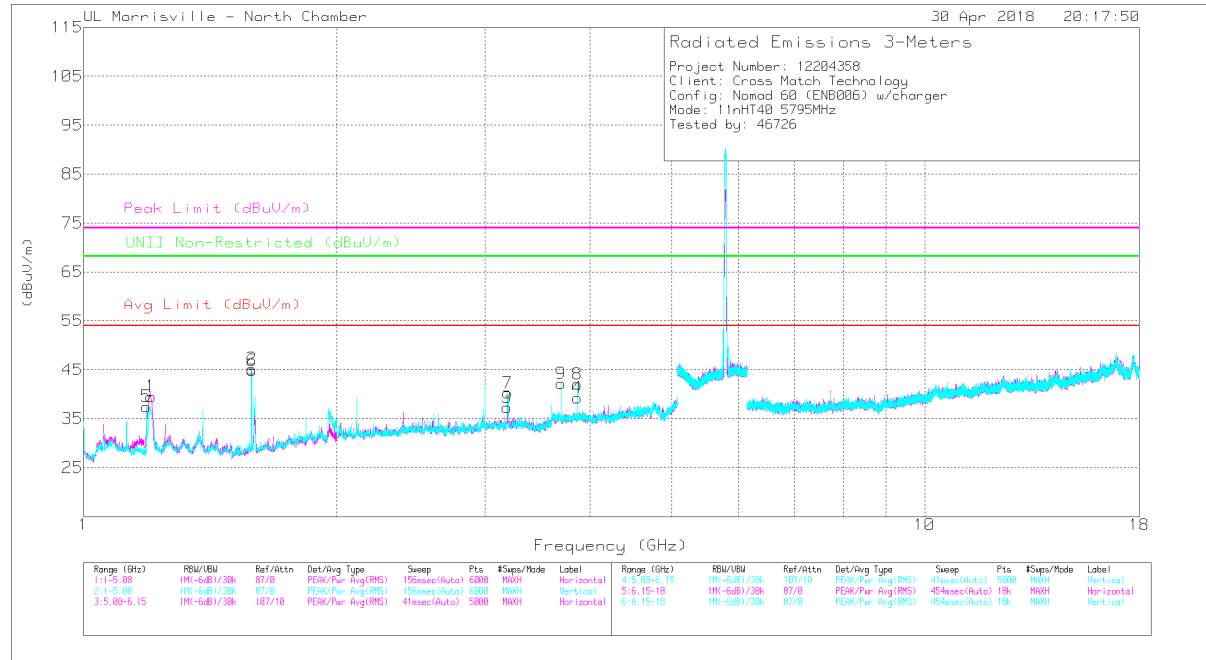
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.2	52.2	PK-U	28.3	-37.1	0	43.4	-	-	74	-30.6	-	-	68	131	H
	* 1.2	39.8	ADR	28.3	-37.1	.38	31.38	54	-22.62	-	-	-	-	68	131	H
2	* 1.584	54.54	PK-U	28.3	-36	0	46.84	-	-	74	-27.16	-	-	68	198	H
	* 1.584	49.41	ADR	28.3	-36	.38	42.09	54	-11.91	-	-	-	-	68	198	H
3	* 1.599	51.78	PK-U	28.5	-35.9	0	44.38	-	-	74	-29.62	-	-	289	163	H
	* 1.599	39.12	ADR	28.5	-35.9	.38	32.1	54	-21.9	-	-	-	-	289	163	H
4	* 3.837	44.87	PK-U	33.5	-32.8	0	45.57	-	-	74	-28.43	-	-	98	107	H
	* 3.837	35.12	ADR	33.5	-32.8	.38	36.2	54	-17.8	-	-	-	-	98	107	H
5	* 1.2	54.16	PK-U	28.3	-37.1	0	45.36	-	-	74	-28.64	-	-	292	116	V
	* 1.2	42.06	ADR	28.3	-37.1	.38	33.64	54	-20.36	-	-	-	-	292	116	V
6	* 1.584	54.77	PK-U	28.3	-36	0	47.07	-	-	74	-26.93	-	-	126	104	V
	* 1.584	49.69	ADR	28.3	-36	.38	42.37	54	-11.63	-	-	-	-	126	104	V
8	* 3.837	46.96	PK-U	33.5	-32.8	0	47.66	-	-	74	-26.34	-	-	140	232	V
	* 3.837	39.92	ADR	33.5	-32.8	.38	41	54	-13	-	-	-	-	140	232	V
7	3	46.71	PK-U	33.1	-33.3	0	46.51	-	-	-	-	68.2	-21.69	161	205	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL



Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.203	55.82	PK-U	28.4	-37.1	0	47.12	-	-	74	-26.88	-	-	326	147	H
	* 1.203	44.61	ADR	28.4	-37.1	.38	36.29	54	-17.71	-	-	-	-	326	147	H
2	* 1.584	55.69	PK-U	28.3	-36	0	47.99	-	-	74	-26.01	-	-	84	108	H
	* 1.584	50.74	ADR	28.3	-36	.38	43.42	54	-10.58	-	-	-	-	84	108	H
4	* 3.863	45.22	PK-U	33.5	-32.7	0	46.02	-	-	74	-27.98	-	-	135	155	H
	* 3.863	36.24	ADR	33.5	-32.7	.38	37.42	54	-16.58	-	-	-	-	135	155	H
5	* 1.188	51.01	PK-U	28.1	-37.1	0	42.01	-	-	74	-31.99	-	-	0	133	V
	* 1.188	44.68	ADR	28.1	-37.1	.38	36.06	54	-17.94	-	-	-	-	0	133	V
6	* 1.584	54.99	PK-U	28.3	-36	0	47.29	-	-	74	-26.71	-	-	113	102	V
	* 1.584	49.99	ADR	28.3	-36	.38	42.67	54	-11.33	-	-	-	-	113	102	V
8	* 3.863	47.41	PK-U	33.5	-32.7	0	48.21	-	-	74	-25.79	-	-	144	227	V
	* 3.863	41.37	ADR	33.5	-32.7	.38	42.55	54	-11.45	-	-	-	-	144	227	V
9	* 3.696	47.61	PK-U	33.3	-32.8	0	48.11	-	-	74	-25.89	-	-	153	236	V
	* 3.696	39.75	ADR	33.3	-32.8	.38	40.63	54	-13.37	-	-	-	-	153	236	V
3	3.186	46	PK-U	33.2	-33.9	0	45.3	-	-	-	-	68.2	-22.9	218	217	H
7	3.195	47.8	PK-U	33.3	-33.9	0	47.2	-	-	-	-	68.2	-21	156	203	V

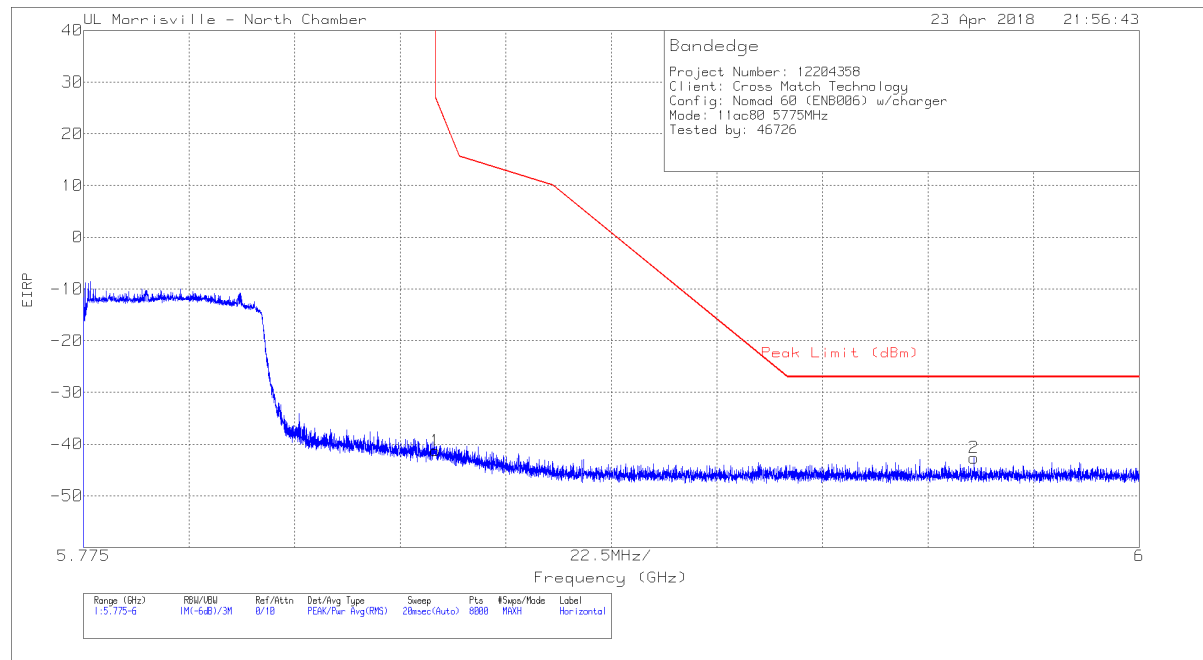
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.16. TX ABOVE 1 GHz 802.11acVHT80 MODE IN THE 5.8 GHz BAND

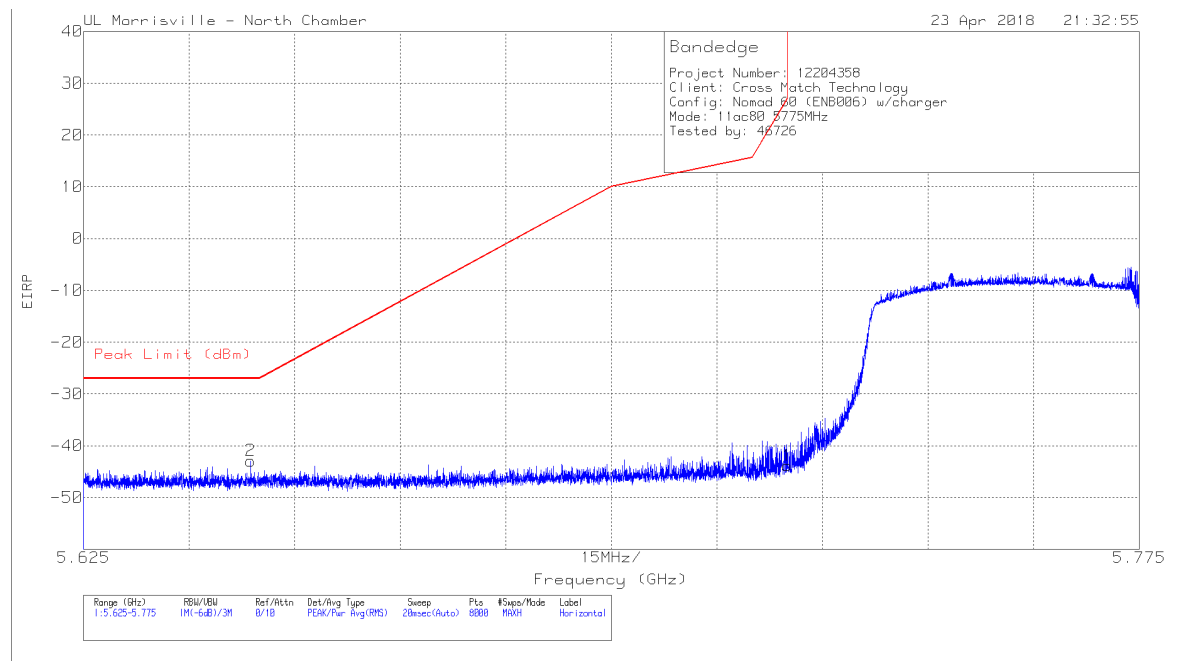
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (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
1	5.85	-65.38	Pk	34.8	-22.5	11.8	0	-41.28	26.95	-68.23	221	369	H
2	5.965	-67.45	Pk	35	-22	11.8	0	-42.65	-27	-15.65	221	369	H

Pk - Peak detector

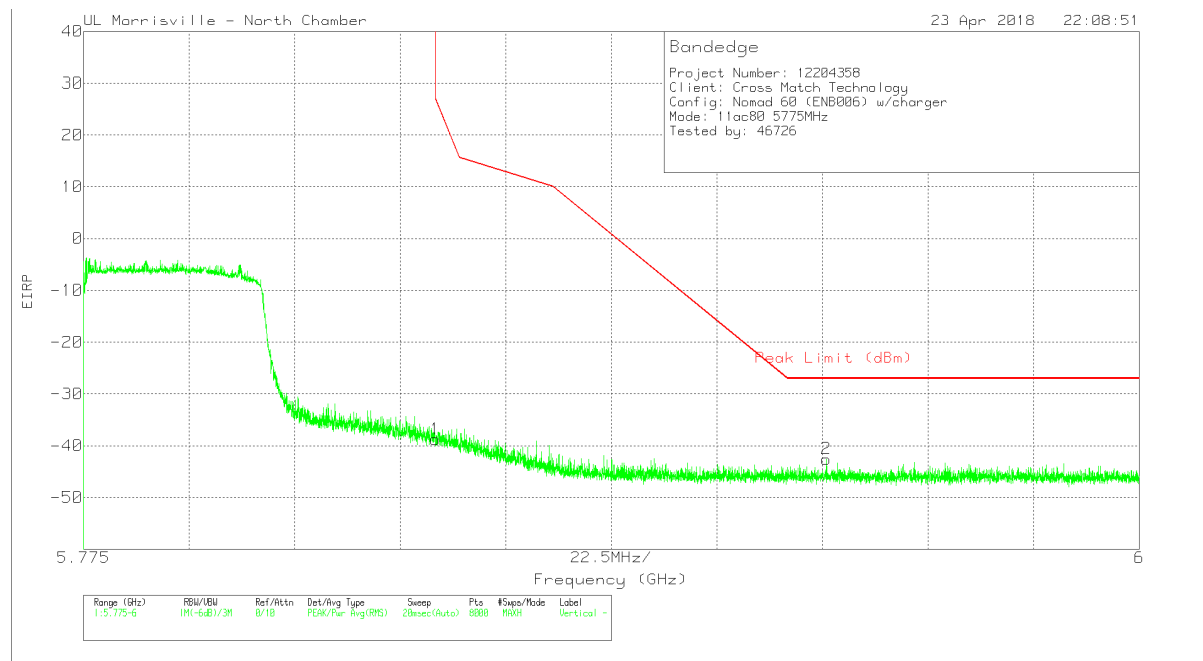
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (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	5.649	-66.2	Pk	34.6	-23.1	11.8	0	-42.9	-27	-15.9	221	385	H
1	5.725	-67.33	Pk	34.7	-23	11.8	0	-43.83	26.97	-70.8	221	385	H

Pk - Peak detector

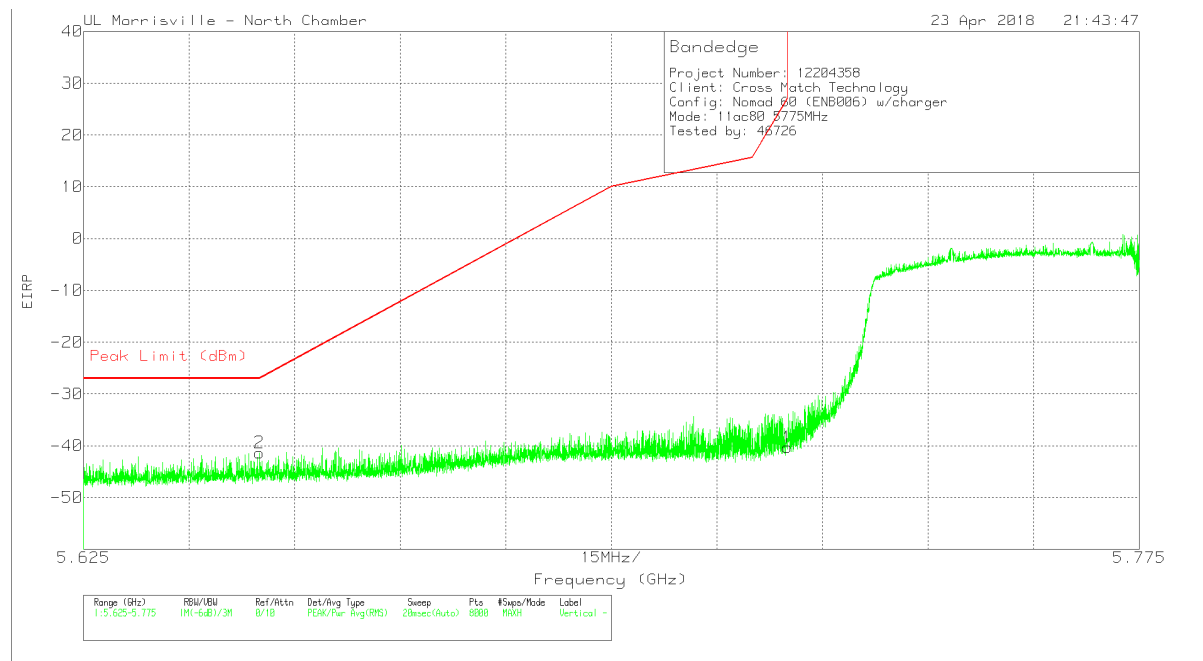
AUTHORIZED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (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
1	5.85	-62.86	Pk	34.8	-22.5	11.8	0	-38.76	26.95	-65.71	142	377	V
2	5.933	-67.14	Pk	34.9	-22.1	11.8	0	-42.54	-27	-15.54	142	377	V

Pk - Peak detector

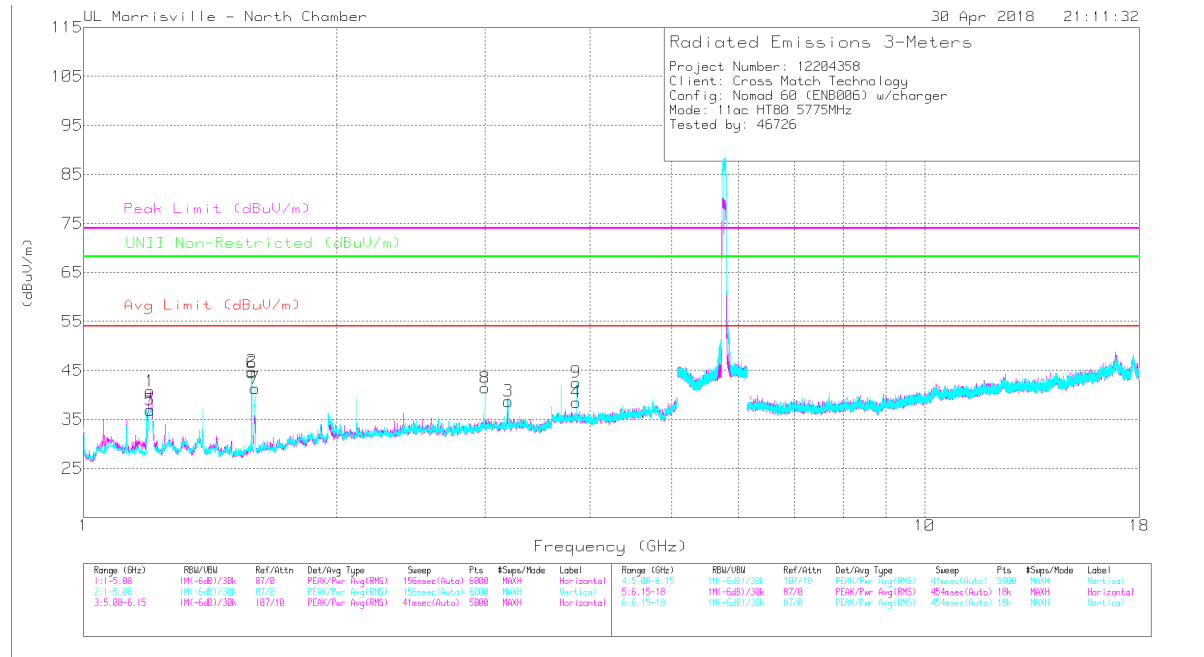
AUTHORIZED BANDEDGE (HIGH CHANNEL, VERTICAL)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (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	5.65	-64.64	Pk	34.6	-23.1	11.8	0	-41.34	-27	-14.34	152	251	V
1	5.725	-63.79	Pk	34.7	-23	11.8	0	-40.29	26.97	-67.26	152	251	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS



Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.2	57.42	PK-U	28.3	-37.1	0	48.62	-	-	74	-25.38	-	-	74	214	H
	* 1.2	45.58	ADR	28.3	-37.1	.73	37.51	54	-16.49	-	-	-	-	74	214	H
2	* 1.584	55.48	PK-U	28.3	-36	0	47.78	-	-	74	-26.22	-	-	81	153	H
	* 1.584	50.7	ADR	28.3	-36	.73	43.73	54	-10.27	-	-	-	-	81	153	H
4	* 3.85	44.84	PK-U	33.5	-32.8	0	45.54	-	-	74	-28.46	-	-	132	199	H
	* 3.85	36.18	ADR	33.5	-32.8	.73	37.61	54	-16.39	-	-	-	-	132	199	H
5	* 1.2	54.83	PK-U	28.3	-37.1	0	46.03	-	-	74	-27.97	-	-	294	105	V
	* 1.2	42.51	ADR	28.3	-37.1	.73	34.44	54	-19.56	-	-	-	-	294	105	V
6	* 1.584	55.13	PK-U	28.3	-36	0	47.43	-	-	74	-26.57	-	-	112	104	V
	* 1.584	49.88	ADR	28.3	-36	.73	42.91	54	-11.09	-	-	-	-	112	104	V
7	* 1.599	52.95	PK-U	28.5	-35.8	0	45.65	-	-	74	-28.35	-	-	154	186	V
	* 1.599	39.6	ADR	28.5	-35.8	.73	33.03	54	-20.97	-	-	-	-	154	186	V
9	* 3.85	46.74	PK-U	33.5	-32.8	0	47.44	-	-	74	-26.56	-	-	140	215	V
	* 3.85	40.35	ADR	33.5	-32.8	.73	41.78	54	-12.22	-	-	-	-	140	215	V
8	3	47.27	PK-U	33.1	-33.3	0	47.07	-	-	-	-	68.2	-21.13	161	199	V
3	3.199	46.23	PK-U	33.3	-33.9	0	45.63	-	-	-	-	68.2	-22.57	164	208	H

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

PK-U - U-NII: Maximum Peak

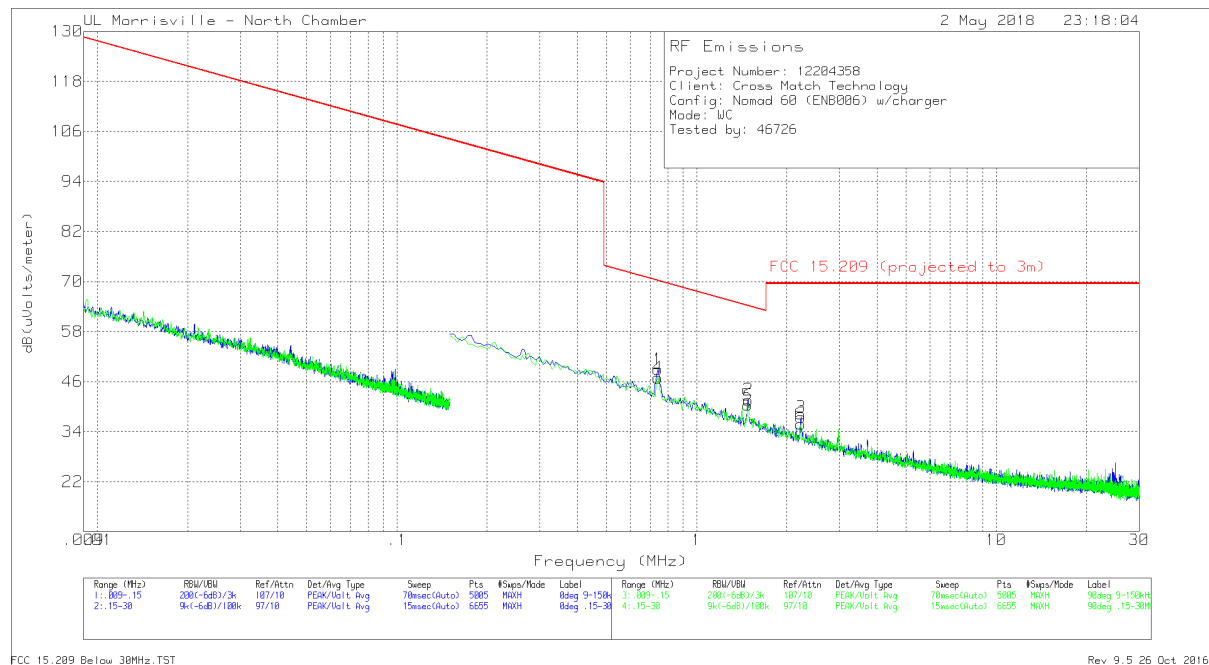
ADR - U-NII AD primary method, RMS average

10.17. RADIATED WORST-CASE

SPURIOUS EMISSIONS 9kHz to 30MHz (WORST-CASE CONFIGURATION)

Note: All measurements were made at a test distance of 3 m. The limits in the plots and tabular data are the FCC/IC limits extrapolated from the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz – 30 MHz) to the measurement distance to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were 40*Log (specification distance / test distance).

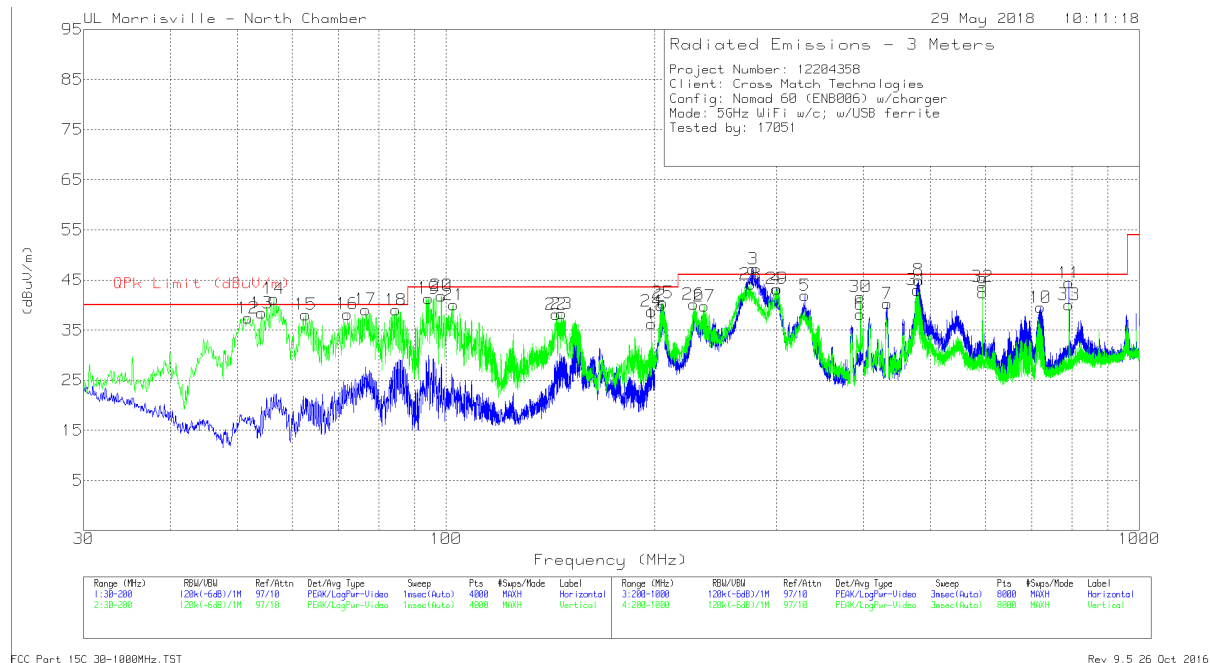
Although these tests were performed at a test site other than an open area test site, adequate comparison measurements were confirmed against an open area test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0079 AF (dB/m)	Cbl (dB)	Corrected Reading dB(uVolts/meter)	FCC 15.209 (projected to 3m)	Margin (dB)	Azimuth (Degs)	Face
4	.74215	35.35	Pk	11.5	.1	46.95	70.19	-23.24	0-360	Off
5	1.48234	28.7	Pk	11.5	.2	40.4	64.19	-23.79	0-360	Off
6	2.22702	24.09	Pk	11.6	.2	35.89	69.54	-33.65	0-360	Off
1	.74215	37.32	Pk	11.5	.1	48.92	70.19	-21.27	0-360	On
2	1.48683	29.94	Pk	11.5	.2	41.64	64.16	-22.52	0-360	On
3	2.22702	25.65	Pk	11.6	.2	37.45	69.54	-32.09	0-360	On

Pk - Peak detector

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

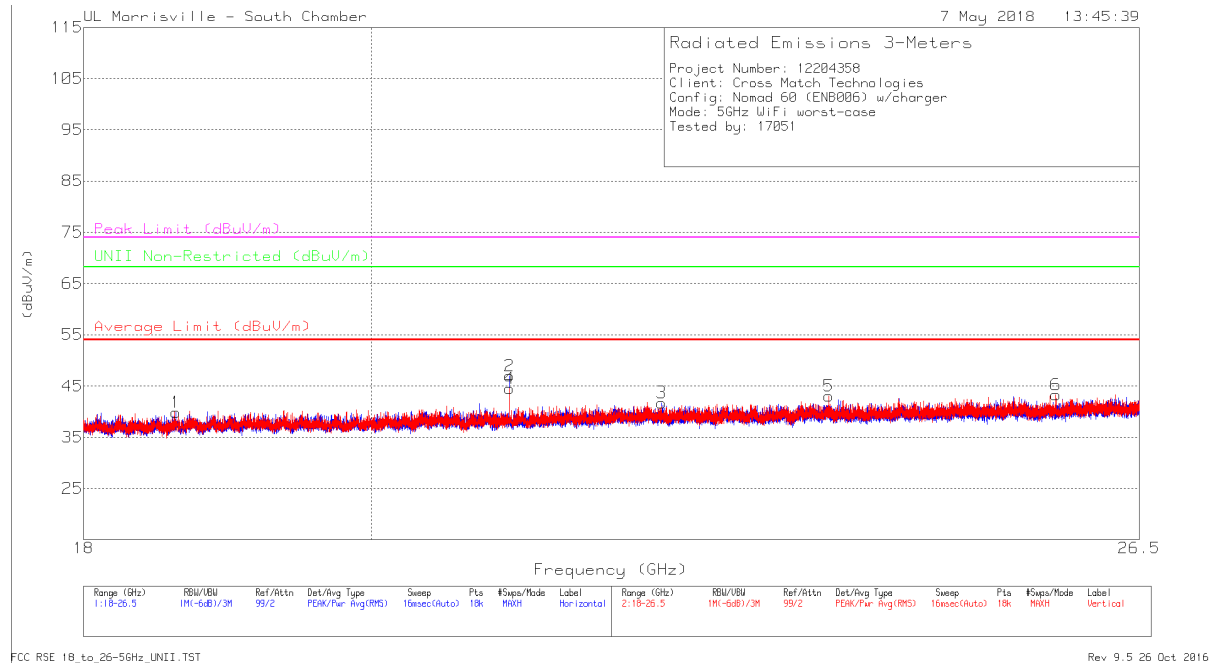


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0073 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	198.0035	48.77	Pk	17.7	-30.2	36.27	43.52	-7.25	0-360	98	H
2	204.1795	48.3	Qp	16.2	-30.1	34.4	43.52	-9.12	200	102	H
3	275.829	53.79	Qp	18.8	-29.5	43.09	46.02	-2.93	228	101	H
4	277.2098	53.59	Qp	18.8	-29.6	42.79	46.02	-3.23	228	101	H
5	329.0734	46.86	Qp	19.5	-29.2	37.16	46.02	-8.86	345	101	H
6	396.0119	44.84	Qp	20.7	-28.9	36.64	46.02	-9.38	273	100	H
7	432.7043	44.04	Qp	21.6	-28.7	36.94	46.02	-9.08	207	210	H
8	480.4523	48.36	Qp	22.9	-28.7	42.56	46.02	-3.46	119	200	H
9	594.0108	49.93	Qp	24	-28.1	45.83	46.02	-.19	254	141	H
10	720.4677	41.65	Pk	25.7	-27.8	39.55	46.02	-6.47	0-360	102	H
11	792.019	45.3	Qp	26.5	-27.3	44.5	46.02	-1.52	232	100	H
12	51.7923	53.26	Qp	12.9	-31.5	34.66	40	-5.34	141	101	V
13	54.1295	54.04	Qp	12.7	-31.4	35.34	40	-4.66	26	102	V
14	56.412	56.59	Qp	12.6	-31.4	37.79	40	-2.21	23	100	V
15	62.6894	53.35	Qp	12.9	-31.3	34.95	40	-5.05	212	100	V
16	72.0829	52.73	Qp	13.2	-31.2	34.73	40	-5.27	193	100	V
17	76.5548	55.37	Qp	13	-31.2	37.17	40	-2.83	239	100	V
18	84.6342	56.22	Qp	12.4	-31.1	37.52	40	-2.48	291	106	V
19	94.3943	56.73	Qp	13.7	-31	39.43	43.52	-4.09	235	100	V
20	98.4837	55.5	Qp	14.8	-30.9	39.4	43.52	-4.12	119	100	V
21	102.5357	51.85	Qp	16	-30.9	36.95	43.52	-6.57	107	100	V
22	144.1758	47.71	Qp	18	-30.6	35.11	43.52	-8.41	1	101	V
23	146.8736	48.33	Qp	17.8	-30.6	35.53	43.52	-7.99	3	101	V
24	198.0056	51.33	Qp	17.7	-30.2	38.83	43.52	-4.69	185	100	V
25	205.5228	52.65	Qp	15.9	-30.1	38.45	43.52	-5.07	31	100	V
26	227.4648	51.01	Qp	16.7	-29.9	37.81	46.02	-8.21	130	101	V
27	236.0047	52.45	Pk	17.1	-29.8	39.75	46.02	-6.27	0-360	102	V
28	274.4483	51.02	Qp	18.8	-29.5	40.32	46.02	-5.7	315	102	V
29	299.5465	51.56	Qp	18.9	-29.4	41.06	46.02	-4.96	216	102	V
30	396.0087	50.58	Qp	20.7	-28.9	42.38	46.02	-3.64	214	126	V
31	478.6526	46.68	Qp	22.9	-28.6	40.98	46.02	-5.04	174	100	V
32	594.0139	47.78	Qp	24	-28.1	43.68	46.02	-2.34	74	112	V
33	792.0164	45	Qp	26.5	-27.3	44.2	46.02	-1.82	173	130	V

Pk - Peak detector

Qp - Quasi-Peak detector

SPURIOUS EMISSIONS 18 to 26.5GHz (WORST-CASE CONFIGURATION)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0076 AF (dB/m)	Amp/Cbl (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 18.62	47.26	Pk	32.6	-40	0	39.86	54	-14.14	74	-34.14	-	-	0-360	149	H
2	* 21.04	55.31	PK-U	33.2	-39	0	49.51	-	-	74	-24.49	-	-	182	220	H
	* 21.04	51.9	ADR	33.2	-39	.66	46.76	54	-7.24	-	-	-	-	182	220	H
4	* 21.04	53.39	PK-U	33.2	-39	0	47.59	-	-	74	-26.41	-	-	199	156	V
	* 21.04	48.4	ADR	33.2	-39	.66	43.26	54	-10.74	-	-	-	-	199	156	V
3	* 22.244	47.03	Pk	33.6	-38.9	0	41.73	54	-12.27	74	-32.27	-	-	0-360	249	H
5	* 23.651	47.31	Pk	33.9	-38.2	0	43.01	54	-10.99	74	-30.99	-	-	0-360	251	V
6	25.703	45.88	Pk	34.3	-36.9	0	43.28	-	-	-	-	68.2	-24.92	0-360	151	V

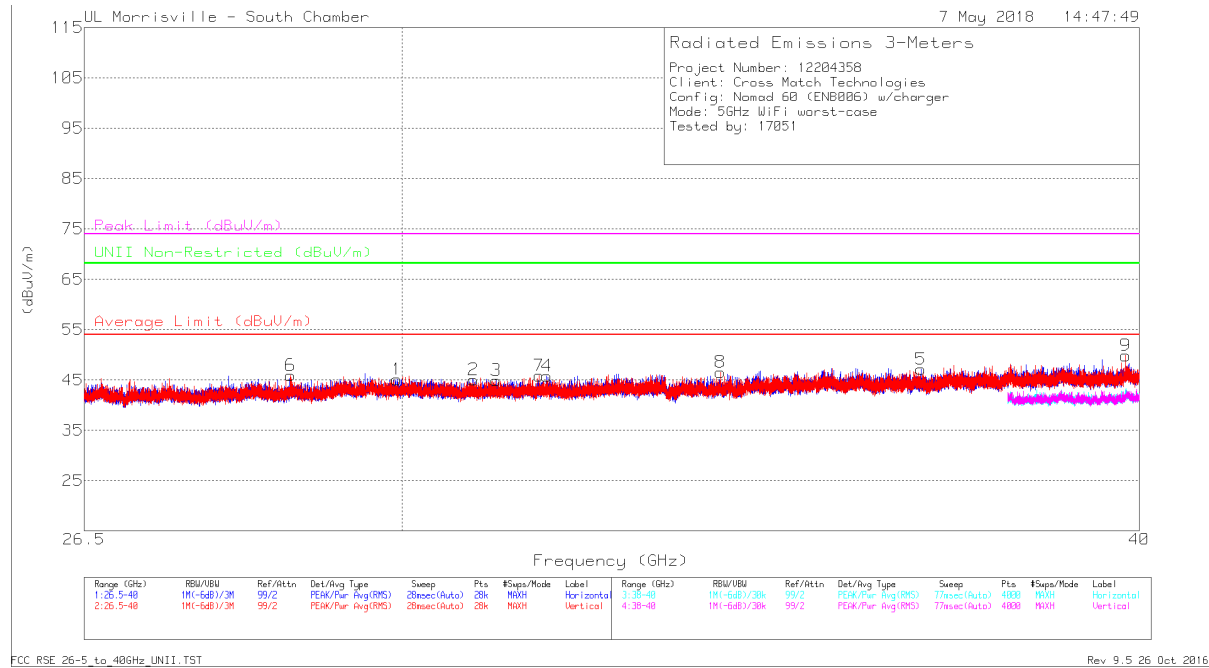
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

SPURIOUS EMISSIONS 26.5 to 40GHz (WORST-CASE CONFIGURATION)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0077 AF (dB/m)	Amp/Cbl (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 31.745	42.91	Pk	36.7	-33.8	0	45.81	54	-8.19	74	-28.19	-	-	0-360	249	H
7	* 31.649	43.06	Pk	36.7	-33.9	0	45.86	54	-8.14	74	-28.14	-	-	0-360	251	V
9	* 39.79	44.81	PK-U	38.7	-34.2	0	49.31	-	-	74	-24.69	-	-	8	102	V
	* 39.788	32.79	ADR	38.7	-34.2	.66	37.95	54	-16.05	-	-	-	-	8	102	V
6	28.723	44.32	Pk	36.3	-34.7	0	45.92	-	-	-	-	68.2	-22.28	0-360	101	V
1	29.94	42.91	Pk	36.5	-34.3	0	45.11	-	-	-	-	68.2	-23.09	0-360	101	H
2	30.849	42.86	Pk	36.4	-34.2	0	45.06	-	-	-	-	68.2	-23.14	0-360	149	H
3	31.122	42.23	Pk	36.6	-33.9	0	44.93	-	-	-	-	68.2	-23.27	0-360	299	H
8	33.969	45.06	Pk	37.2	-35.7	0	46.56	-	-	-	-	68.2	-21.64	0-360	101	V
5	36.733	44.76	Pk	37.8	-35.4	0	47.16	-	-	-	-	68.2	-21.04	0-360	101	H

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

Pk - Peak detector

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

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

* Decreases with the logarithm of the frequency.

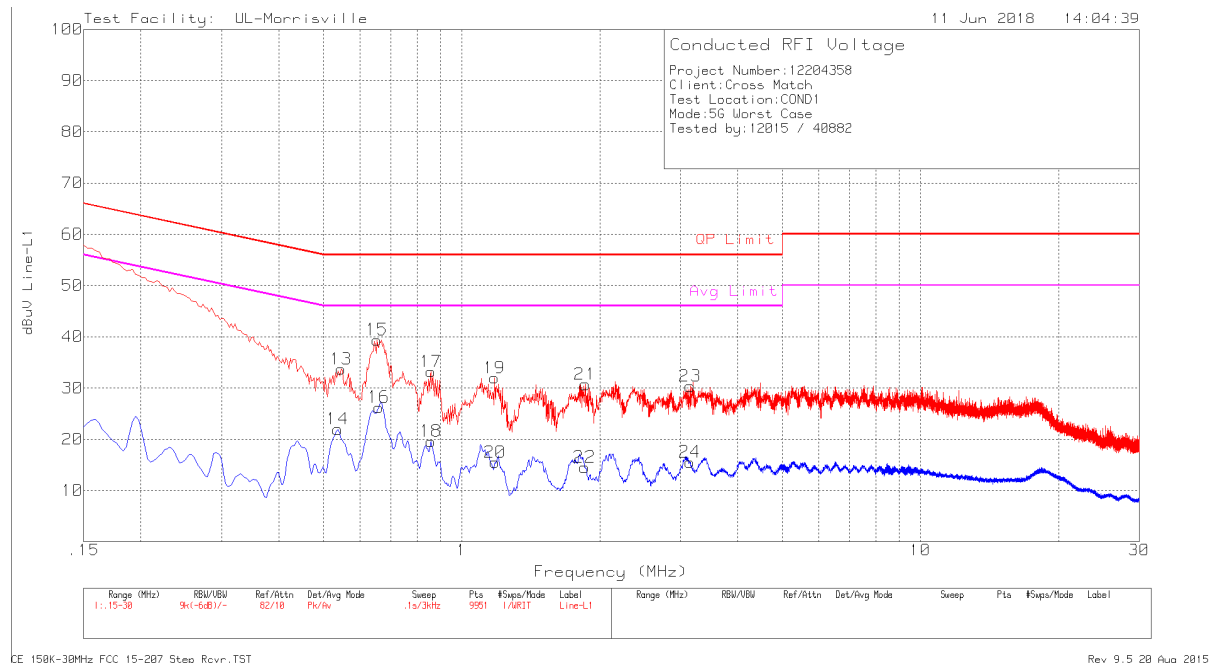
TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both lines.

LINE 1 RESULTS

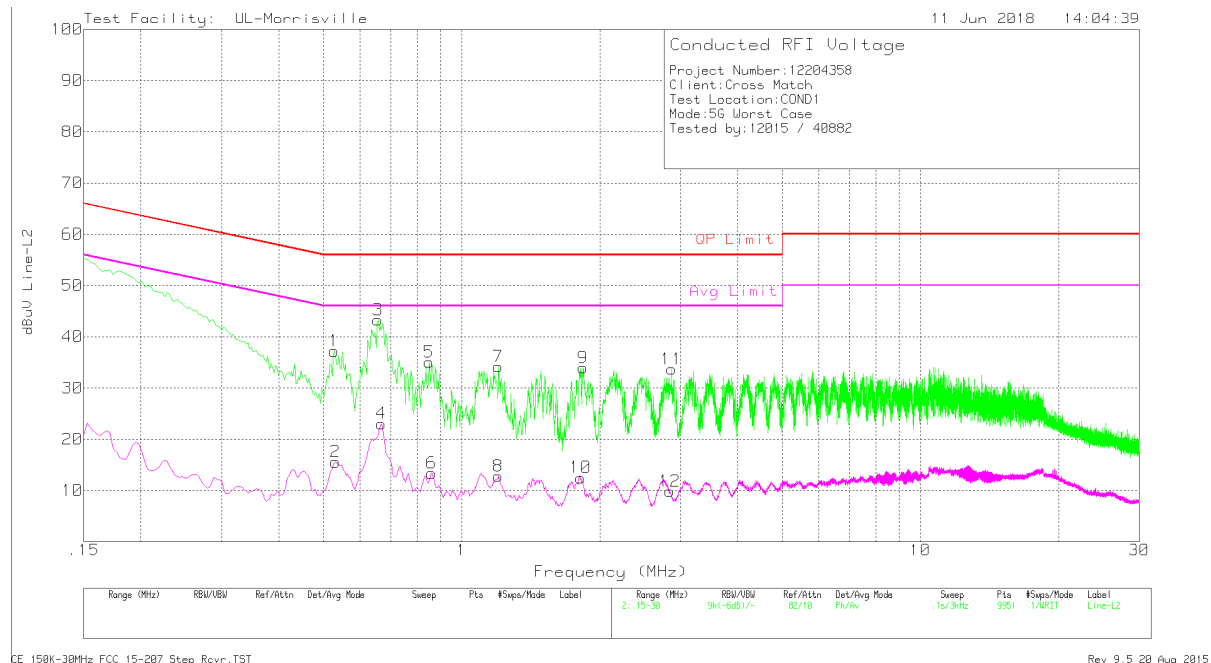


Range 1: Line-L1 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VCF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit	Margin (dB)	Avg Limit	Margin (dB)
13	.546	23.83	Pk	0	9.9	33.73	56	-22.27	-	-
14	.537	12.07	Av	0	9.9	21.97	-	-	46	-24.03
15	.654	29.51	Pk	0	9.9	39.41	56	-16.59	-	-
16	.66	16.36	Av	0	9.9	26.26	-	-	46	-19.74
17	.858	23.28	Pk	0	9.9	33.18	56	-22.82	-	-
18	.858	9.72	Av	0	9.9	19.62	-	-	46	-26.38
19	1.179	22.06	Pk	0	9.9	31.96	56	-24.04	-	-
20	1.182	5.54	Av	0	10	15.54	-	-	46	-30.46
21	1.86	20.7	Pk	0	10	30.7	56	-25.3	-	-
22	1.854	4.56	Av	0	10	14.56	-	-	46	-31.44
23	3.15	20.33	Pk	0	10	30.33	56	-25.67	-	-
24	3.147	5.55	Av	0	10	15.55	-	-	46	-30.45

Pk - Peak detector

Av - Average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VCF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit	Margin (dB)	Avg Limit	Margin (dB)
1	.528	27.32	Pk	0	9.9	37.22	56	-18.78	-	-
2	.531	5.68	Av	0	9.9	15.58	-	-	46	-30.42
3	.657	33.37	Pk	0	9.9	43.27	56	-12.73	-	-
4	.669	13.17	Av	0	9.9	23.07	-	-	46	-22.93
5	.849	25.17	Pk	0	9.9	35.07	56	-20.93	-	-
6	.861	3.47	Av	0	9.9	13.37	-	-	46	-32.63
7	1.203	24.2	Pk	0	10	34.2	56	-21.8	-	-
8	1.203	2.8	Av	0	10	12.8	-	-	46	-33.2
9	1.842	23.92	Pk	0	10	33.92	56	-22.08	-	-
10	1.815	2.5	Av	0	10	12.5	-	-	46	-33.5
11	2.871	23.67	Pk	0	10	33.67	56	-22.33	-	-
12	2.841	-1.14	Av	0	10	9.86	-	-	46	-36.14

Pk - Peak detector

Av - Average detection