



CERTIFICATION TEST REPORT

Report Number. : 12132753-E5V2

Applicant : SONY MOBILE COMMUNICATIONS, INC.
4-12-3 HIGASHI-SHINAGAWA,
SHINAGAWA -KU, TOKYO, 140-0002, JAPAN

FCC ID : PY7-06485Z

EUT Description : GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac &
NFC

Test Standard(s) : FCC 47 CFR PART 15 SUBPART E

Date Of Issue:

May 18, 2018

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REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	5/15/2018	Initial Issue	--
V2	5/18/2018	Updated Section 2, 9 & Added Section 6.3	Kiya Kedida

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SONY MOBILE COMMUNICATIONS, INC.
4-12-3 HIGASHI-SHINAGAWA,
SHINAGAWA -KU, TOKYO, 140-0002, JAPAN

EUT DESCRIPTION: GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac & NFC

SERIAL NUMBER: CB512FP0CD & CB512FP0J5 (RADIATED)

DATE TESTED: May 1 - 7, 2018

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart E (EXCEPT DFS)	Complies

UL Verification Services Inc. 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 Verification Services Inc. 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 Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. 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, any agency of the Federal Government, or any agency of the U.S. government.

Approved & Released For
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Reviewed By:



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CONSUMER TECHNOLOGY DIVISION
Operations Leader
UL Verification Services Inc.

Kiya Kedida
CONSUMER TECHNOLOGY DIVISION
Project Engineer
UL Verification Services Inc.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, FCC KDB 662911 D01 v02r01, FCC KDB 789033 D02 v02r01, ANSI C63.10-2013 and KDB 484596 D01 Referencing Test Data v01.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, Fremont, California, USA. Line conducted emissions are measured only at the 47173 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

47173 Benicia Street	47266 Benicia Street
<input checked="" type="checkbox"/> Chamber A (ISED:2324B-1)	<input type="checkbox"/> Chamber D (ISED:22541-1)
<input checked="" type="checkbox"/> Chamber B (ISED:2324B-2)	<input type="checkbox"/> Chamber E (ISED:22541-2)
<input checked="" type="checkbox"/> Chamber C (ISED:2324B-3)	<input type="checkbox"/> Chamber F (ISED:22541-3)
	<input type="checkbox"/> Chamber G (ISED:22541-4)
	<input type="checkbox"/> Chamber H (ISED:22541-5)

The above test sites and facilities are covered under FCC Test Firm Registration # 208313. Chambers A through C are covered under ISED company address code 2324B with site numbers 2324B -1 through 2324B-3, respectively. Chambers D through H are covered under ISED company address code 22541 with site numbers 22541 -1 through 22541-5, respectively.

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://nist.gov/standards/scopes/2000650.htm>.

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:

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

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.84 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.65 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	3.15 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	5.36 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.32 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.45 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.24 dB

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

5. EQUIPMENT UNDER TEST

5.1. EUT DESCRIPTION

The EUT is a GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac & NFC.

6. REUSE OF TEST DATA

6.1. INTRODUCTION

According to the manufacturer, the WLAN/Bluetooth conducted and NFC hardware of PY7-04685Z are HW identical to PY7-68553C. In addition PY7-04685Z digital circuit is identical to PY7-68553C. Therefore the following report/data of PY7-04685Z may be represented from PY7-68553C.

- WLAN/Bluetooth conducted
- NFC
- 15B

6.2. DEVICES DIFFERENCES

Difference between PY7-04685Z and PY7-68553C:

Sony Mobile Communications Inc. hereby declares that the difference between PY7-04685Z and PY7-68553C is related only to the cellular part and WLAN/Bluetooth Antenna Gain. Therefore the WLAN/Bluetooth conducted and NFC report/data of PY7-68553C may represent for PY7-04685Z.

6.3. REFERENCE DETAIL

Equipment Class	Reference FCC ID	Report Title/Section
NII (UNII WLAN))	PY7-68553C	12132731-E5V3 FCC Report UNII WLAN

This report covers radiated emissions portion. For antenna port data refer to report number 12132731-E5V3 FCC Report UNII WLAN. FCC ID: PY7-68553C and PY7-04685Z has same output power values. Output power was confirmed before making radiated spurious measurements.

6.4. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a loop antenna for chain 0 and a monopole antenna for chain 1, with the maximum gains:

Frequency (GHz)	Peak Antenna Gain (dBi)	
	Main (Chain 0)	Sub (Chain 1)
5180-5320	-3.0	-7.9
5500-5700	-2.3	-5.3
5725-5850	-3.6	-5.1

6.5. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was s_atp_XXX_0_00403_A_9.
The test utility software used during testing was Tera Term Ver 4.79.

6.6. LIST OF TEST REDUCTION AND MODES

Antenna port & Radiated Testing	
Mode	Covered by
802.11a Legacy	802.11a 2TX CDD
802.11HT20 2TX STBC	802.11n HT20 2TX CDD
802.11ac VHT20 2TX STBC	802.11n HT20 2TX CDD
802.11n HT40 2TX STBC	802.11n HT40 2TX CDD
802.11ac VHT40 2TX STBC	802.11n HT40 2TX CDD
802.11ac VHT80 2TX STBC	802.11ac VHT80 2TX CDD

7. WORST-CASE CONFIGURATION AND MODE

Radiated emissions below 30MHz, 1GHz, above 18GHz emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

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

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

802.11a mode: 6 Mbps
802.11n HT20 mode: 13 Mbps (MCS8)
802.11n HT40 mode: 27 Mbps (MCS8)
802.11ac VHT80 mode: 58.5 Mbps (MCS0)

802.11ac VHT20 and VHT40 mode are different from 802.11nHT20 and HT40 only in control messages and have the same power settings.

The simultaneous mode (SISO 2.4GHz Chain 0 and 5GHz chain 1) was checked and stand-alone (MIMO) 2.4 GHz / 5GHz remain worst case.

NOTE: SISO mode is covered by MIMO mode due to same maximum tune-up limit (power).

7.1. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

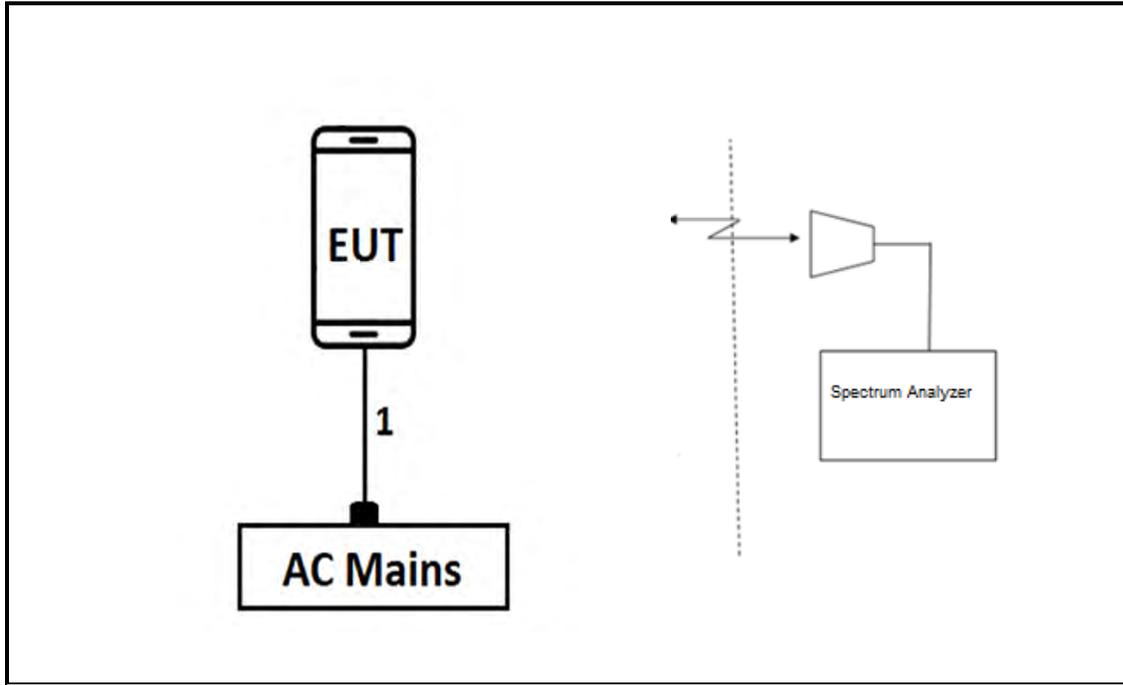
Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Laptop	Lenovo	20B7S0A200	PC015REW	NA
AC Adapter	SONY	UCH12	4016W40310044	NA
DC Power Supply	Ametek	XT 15-4	T463	N/A

I/O CABLES (RADIATED EMISSIONS)

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	USB	1	USB	Shielded	3	N/A

TEST SETUP

RADIATED AND AC LINE CONDUCTED EMISSIONS SETUP DIAGRAM



8. MEASUREMENT METHOD

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

Unwanted emissions in non-restricted bands: KDB 789033 D02 v02r01, Sections II.G.3, II.G.4, and II.G.5.

9. TEST AND MEASUREMENT EQUIPMENT

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

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	ID Num	Cal Due
Amplifier, 1 - 18GHz	Miteq	AFS42-00101800-25-S-42	493	06/23/18
Amplifier, 1 - 18GHz	Miteq	AFS42-00101800-25-S-42	1165	11/25/18
Amplifier, 1 - 18GHz	Miteq	AFS42-00101800-25-S-42	T931	06/21/18
Amplifier, 10KHz to 1GHz, 32dB	Keysight	8447D	15	08/17/18
RF Preamplifier, 1 - 26GHz	Agilent	8449B	404	07/23/18
Amplifier- 26.5-40GHz	Mlteq	NSP 4000 SP2	T88	04/29/19
Antenna, Broadband Hybrid 30MHz to 2000MHz	Sunol Science	JB1	243	11/02/18
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	120	06/26/18
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	862	06/09/18
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	T863	06/09/18
Antenna, Horn 18-26.5GHz	ARA	MWH-1826	T89	01/04/19
Antenna, Horn 26.5 - 40GHz	ARA	MWH-2640	T90	08/25/18
Antenna, Active Loop 9kHz-30MHz	Com-Power Corp.	AL-130R	T1866	10/10/18
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A	T1454	01/08/19
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A	T1113	12/21/18
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A	T1450	02/05/19

Test Software List			
Description	Manufacturer	Model	Version
Radiated Software	UL	UL EMC	Ver 9.5, Dec 1, 2016

NOTES:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

10. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209

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

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

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

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

The spectrum from 30 MHz to 1GHz and 18GHz to 40 GHz is investigated with the transmitter set to transmit at the channel with highest output power as worst-case scenario. 1GHz to 18GHz was set to the lowest, middle, and highest channels in the 5 GHz bands.

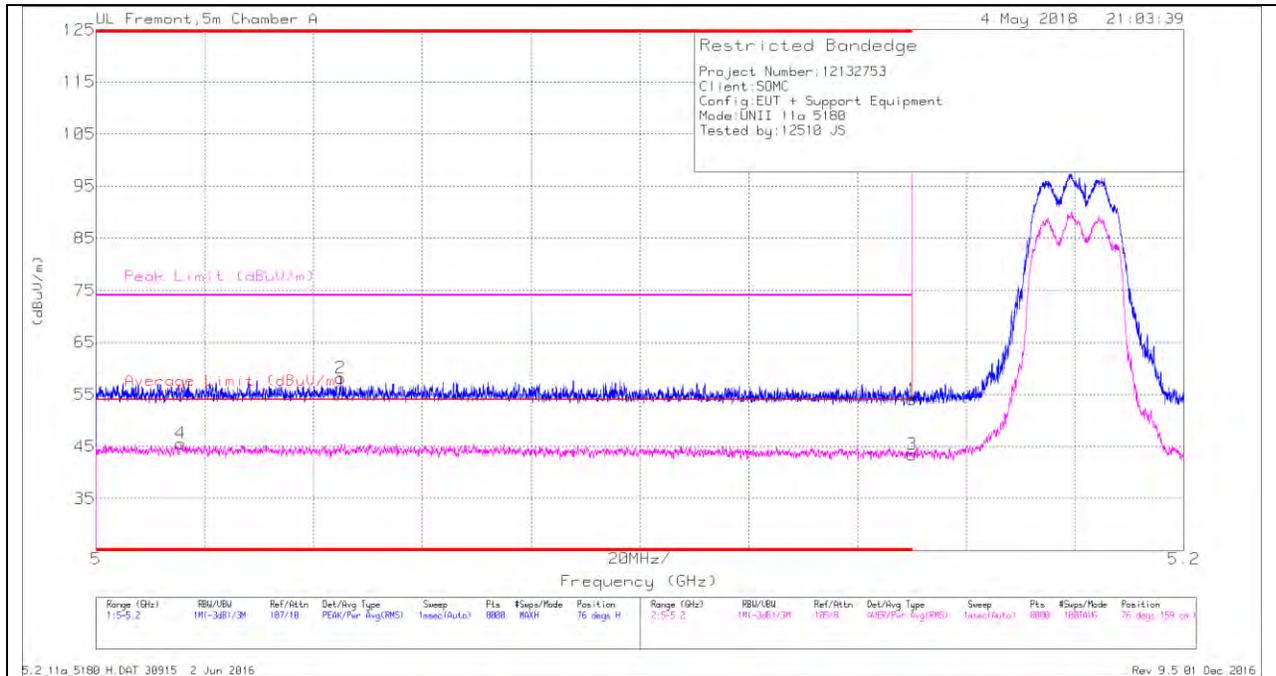
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

10.1. TRANSMITTER ABOVE 1 GHz

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

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



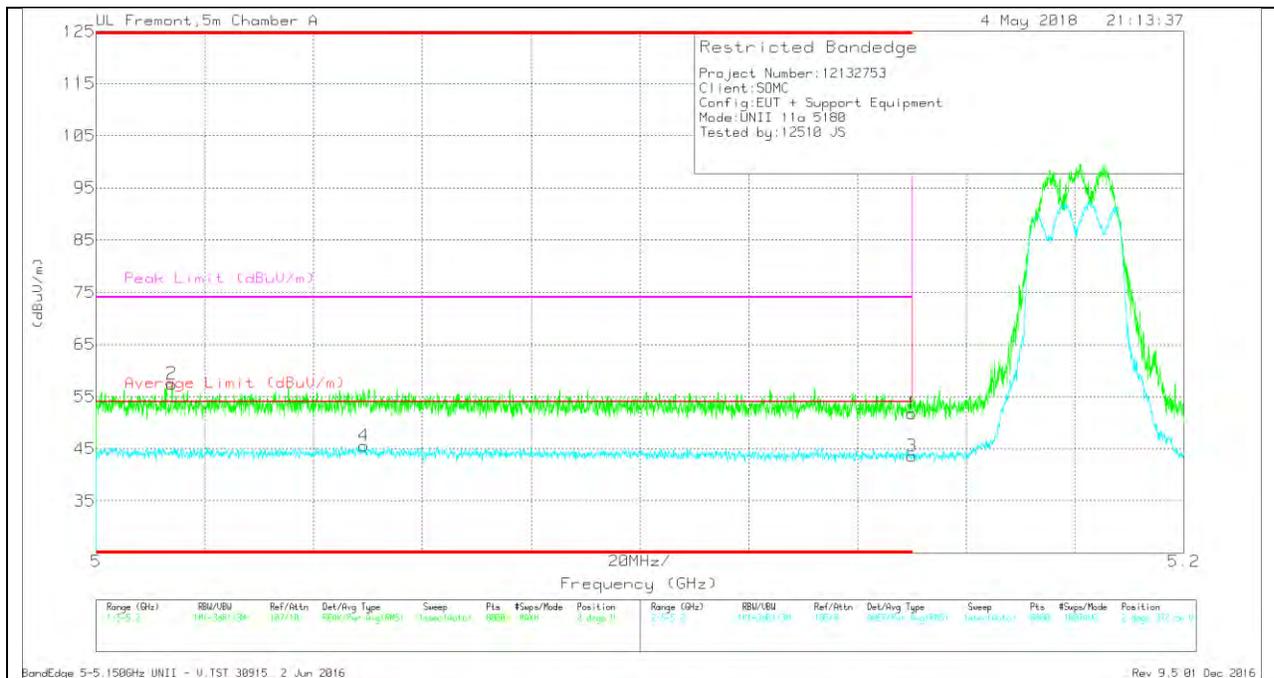
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 5.016	29.17	RMS	34.3	-17.9	0	45.57	54	-8.43	-	-	76	159	H
2	* 5.045	41.6	Pk	34.4	-17.9	0	58.1	-	-	74	-15.9	76	159	H
1	* 5.15	37.74	Pk	34.4	-18.1	0	54.04	-	-	74	-19.96	76	159	H
3	* 5.15	27.13	RMS	34.4	-18.1	0	43.43	54	-10.57	-	-	76	159	H

* - indicates frequency in CFR47 Pt 15 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

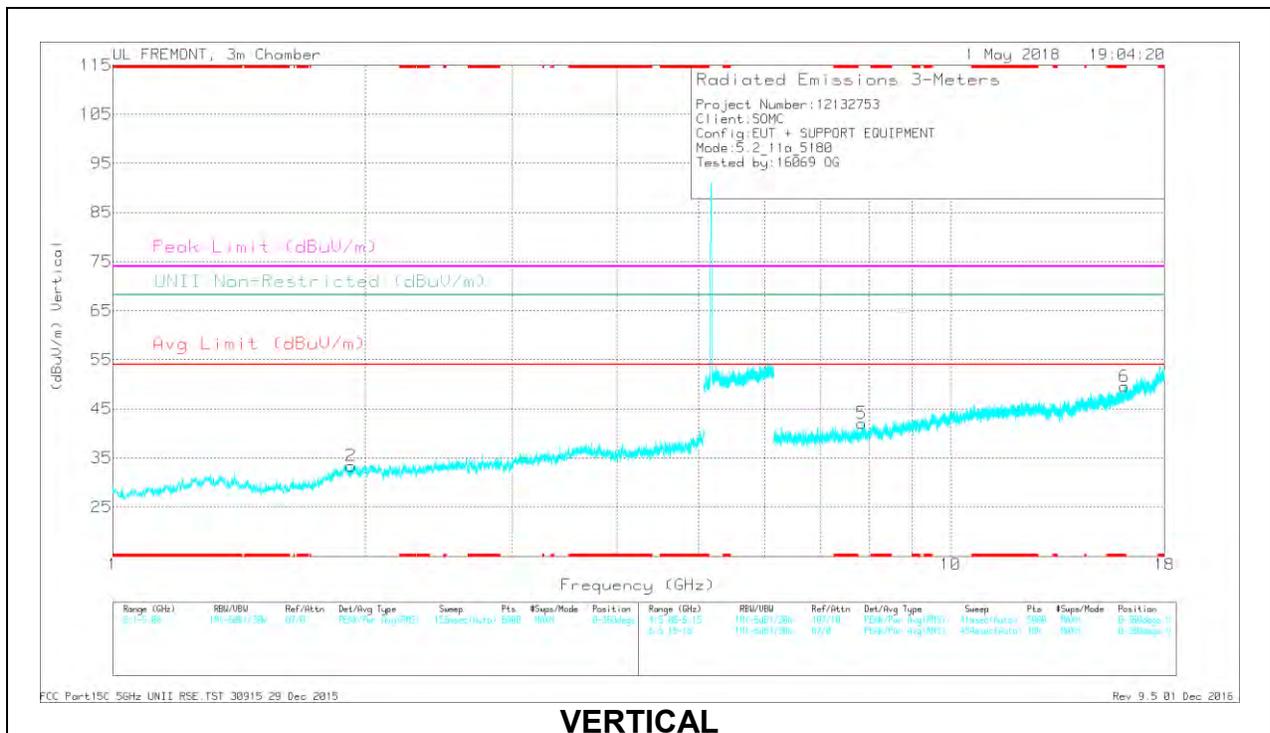
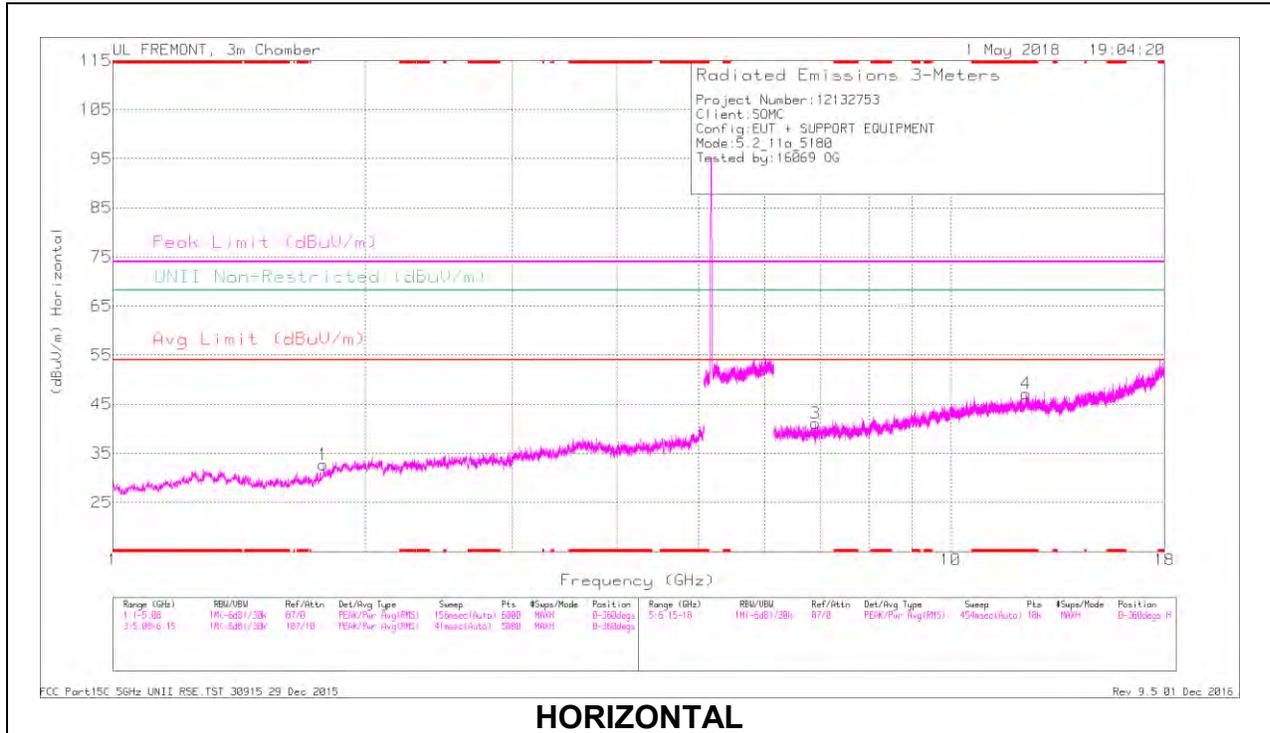


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.014	41.13	Pk	34.3	-18	0	57.43	-	-	74	-16.57	2	372	V
4	* 5.049	28.97	RMS	34.4	-17.8	0	45.57	54	-8.43	-	-	2	372	V
1	* 5.15	35.49	Pk	34.4	-18.1	0	51.79	-	-	74	-22.21	2	372	V
3	* 5.15	27.3	RMS	34.4	-18.1	0	43.6	54	-10.4	-	-	2	372	V

* - indicates frequency in CFR47 Pt 15 Restricted Band
 Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS

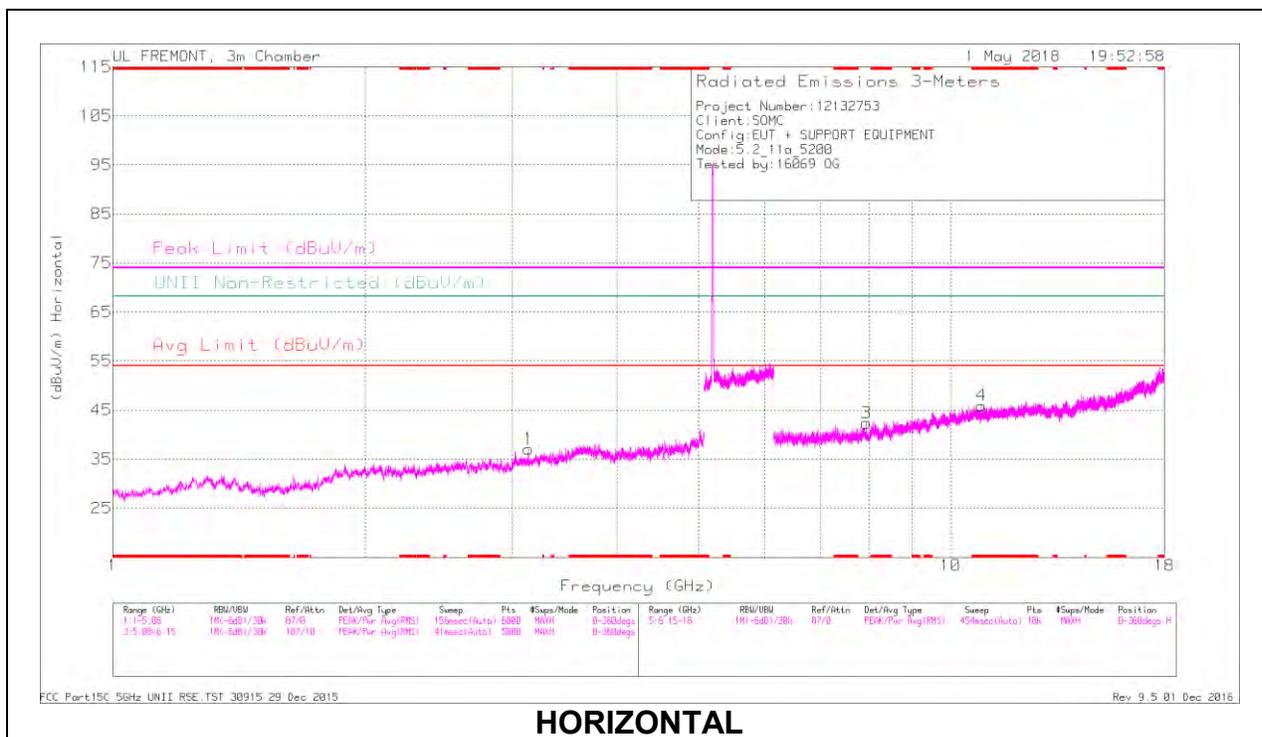


RADIATED EMISSIONS

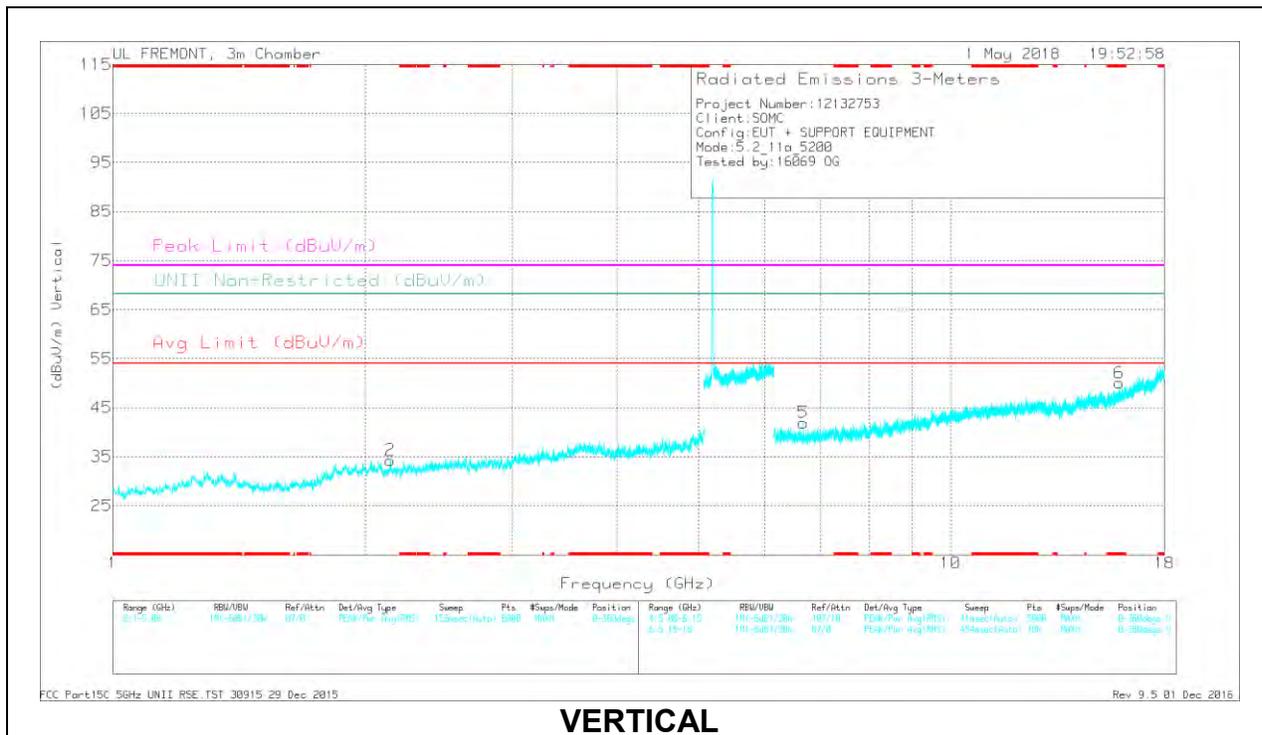
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 12.3	34.49	PK-U	39.1	-20.1	0	53.49	-	-	74	-20.51	-	-	224	363	H
	* 12.301	22.9	ADR	39.1	-20.3	0	41.7	54	-12.3	-	-	-	-	224	363	H
6	* 16.117	33.7	PK-U	40.5	-18.6	0	55.6	-	-	74	-18.4	-	-	275	157	V
	* 16.114	22.64	ADR	40.5	-18.8	0	44.34	54	-9.66	-	-	-	-	275	157	V
1	1.785	39.46	PK-U	30	-30.8	0	38.66	-	-	-	-	68.2	-29.54	219	332	H
2	1.926	38.71	PK-U	31.5	-30.3	0	39.91	-	-	-	-	68.2	-28.29	204	225	V
3	6.896	35.84	PK-U	35.7	-25	0	46.54	-	-	-	-	68.2	-21.66	291	351	H
5	7.842	36.23	PK-U	35.8	-24.1	0	47.93	-	-	-	-	68.2	-20.27	0	340	V

* - indicates frequency in CFR47 Pt 15 Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



HORIZONTAL



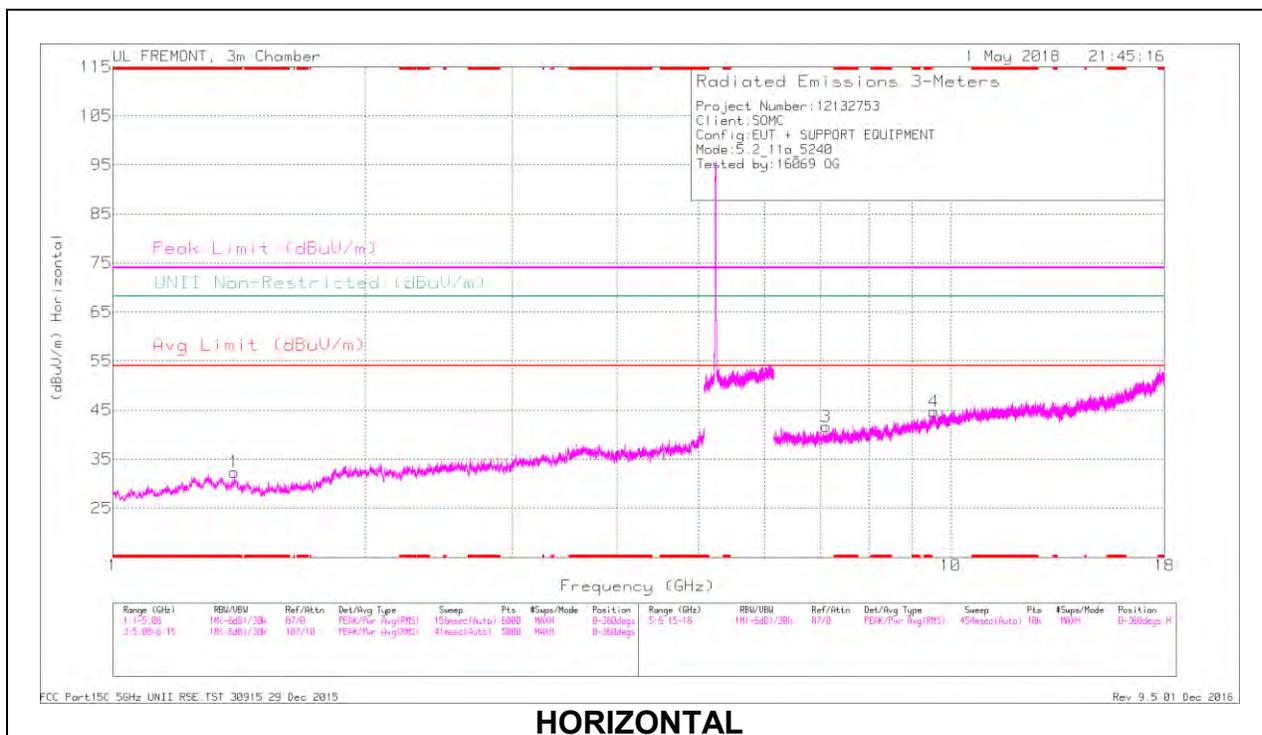
VERTICAL

RADIATED EMISSIONS

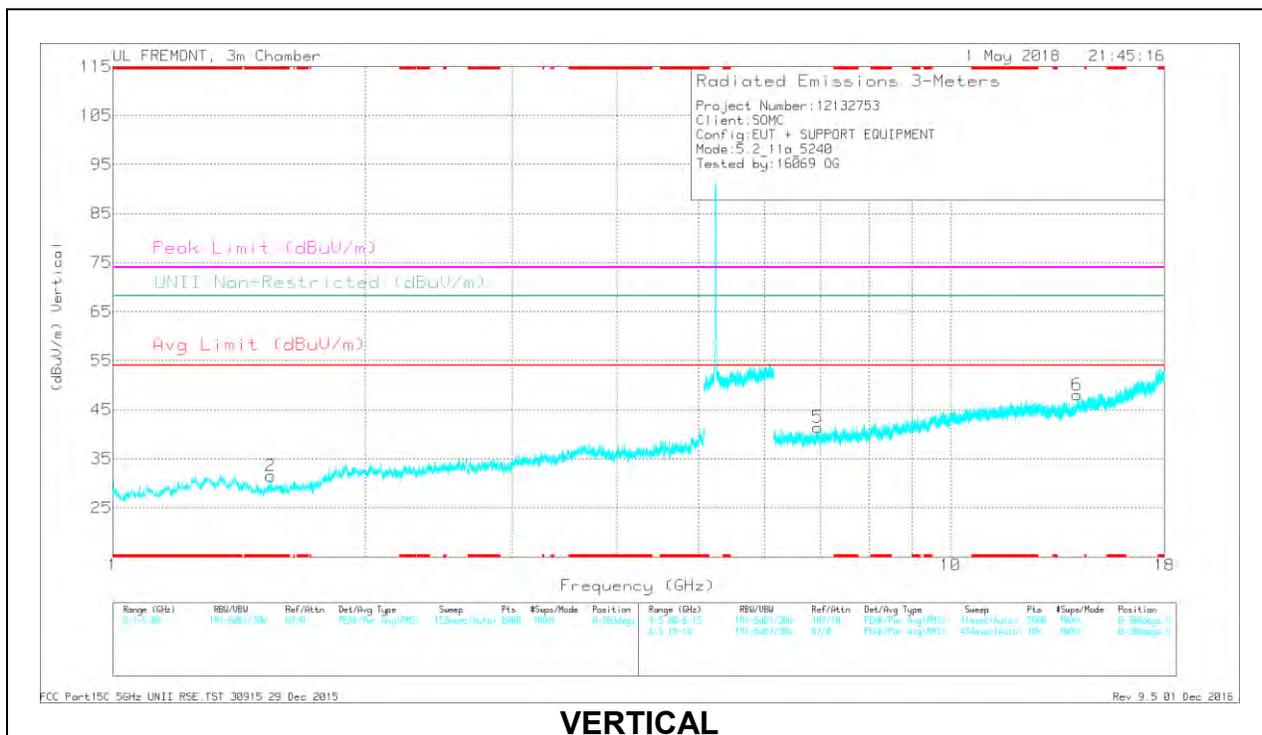
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 10.888	34.18	PK-U	37.9	-20.9	0	51.18	-	-	74	-22.82	-	-	99	145	H
	* 10.891	22.75	ADR	37.9	-20.9	0	39.75	54	-14.25	-	-	-	-	99	145	H
6	* 15.902	34.75	PK-U	40.4	-20.1	0	55.05	-	-	74	-18.95	-	-	38	138	V
	* 15.901	22.66	ADR	40.4	-20.1	0	42.96	54	-11.04	-	-	-	-	38	138	V
2	2.146	38.27	PK-U	31.4	-29.8	0	39.87	-	-	-	-	68.2	-28.33	100	365	V
1	3.135	38.89	PK-U	33.2	-30	0	42.09	-	-	-	-	68.2	-26.11	82	112	H
5	6.673	36.39	PK-U	35.7	-25.3	0	46.79	-	-	-	-	68.2	-21.41	307	308	V
3	7.93	34.89	PK-U	35.8	-23.9	0	46.79	-	-	-	-	68.2	-21.41	222	296	H

* - indicates frequency in CFR47 Pt 15 Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

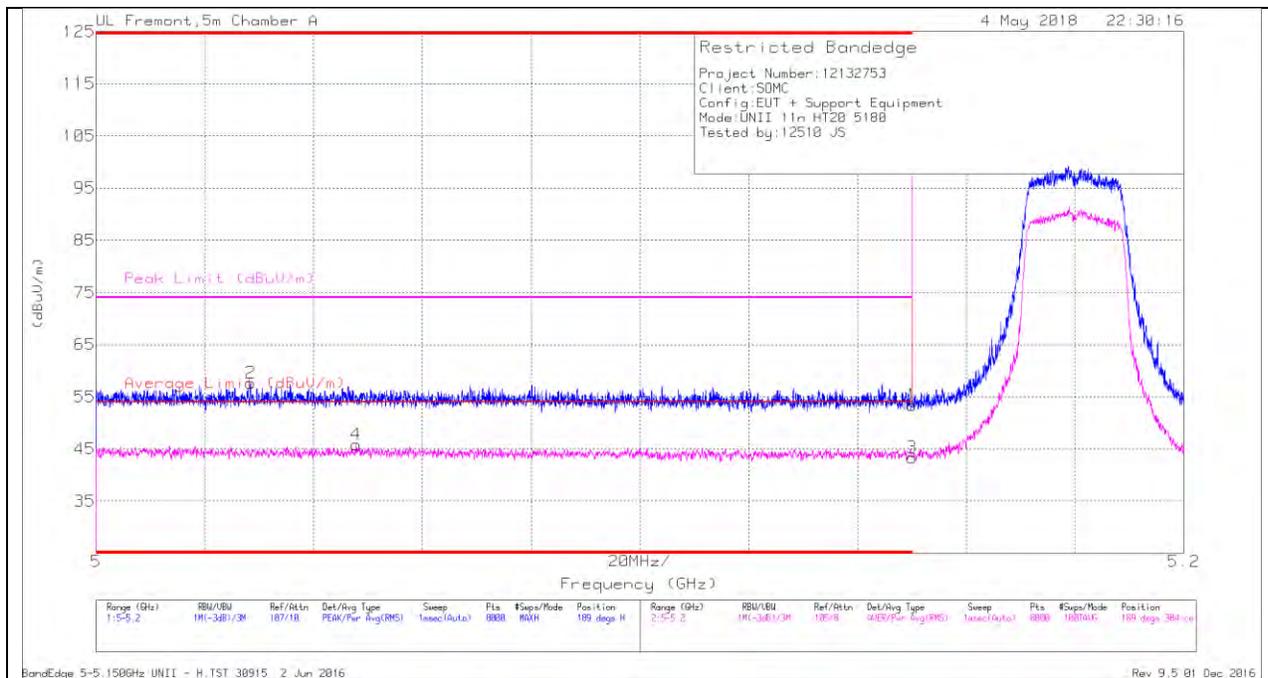
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.398	40.26	PK-U	29.3	-30.7	0	38.86	-	-	74	-35.14	-	-	272	193	H
	* 1.398	27.72	ADR	29.3	-30.7	0	26.32	54	-27.68	-	-	-	-	272	193	H
2	* 1.545	39.04	PK-U	28	-31	0	36.04	-	-	74	-37.96	-	-	193	349	V
	* 1.543	27.53	ADR	28	-31.1	0	24.43	54	-29.57	-	-	-	-	193	349	V
5	6.942	36.02	PK-U	35.7	-24.7	0	47.02	-	-	-	-	68.2	-21.18	102	397	V
3	7.101	36.56	PK-U	35.7	-25.4	0	46.86	-	-	-	-	68.2	-21.34	274	144	H
4	9.552	34.25	PK-U	36.8	-20.3	0	50.75	-	-	-	-	68.2	-17.45	98	344	H
6	14.155	35.83	PK-U	39.3	-21.9	0	53.23	-	-	-	-	68.2	-14.97	37	165	V

* - indicates frequency in CFR47 Pt 15 Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

10.1.2. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.2 GHz BAND

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



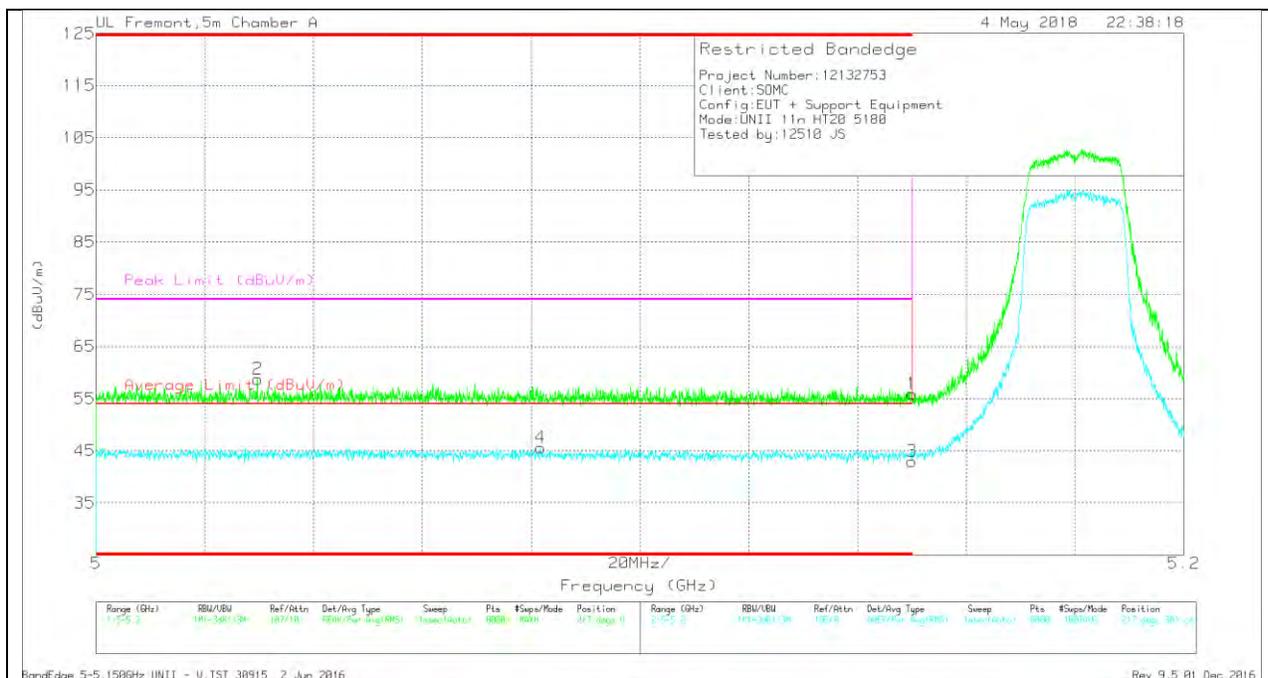
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.028	41.26	Pk	34.3	-18	0	57.56	-	-	74	-16.44	189	384	H
4	* 5.048	29.11	RMS	34.4	-17.8	.1	45.81	54	-8.19	-	-	189	384	H
1	* 5.15	37.09	Pk	34.4	-18.1	0	53.39	-	-	74	-20.61	189	384	H
3	* 5.15	26.9	RMS	34.4	-18.1	.1	43.3	54	-10.7	-	-	189	384	H

* - indicates frequency in CFR47 Pt 15 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

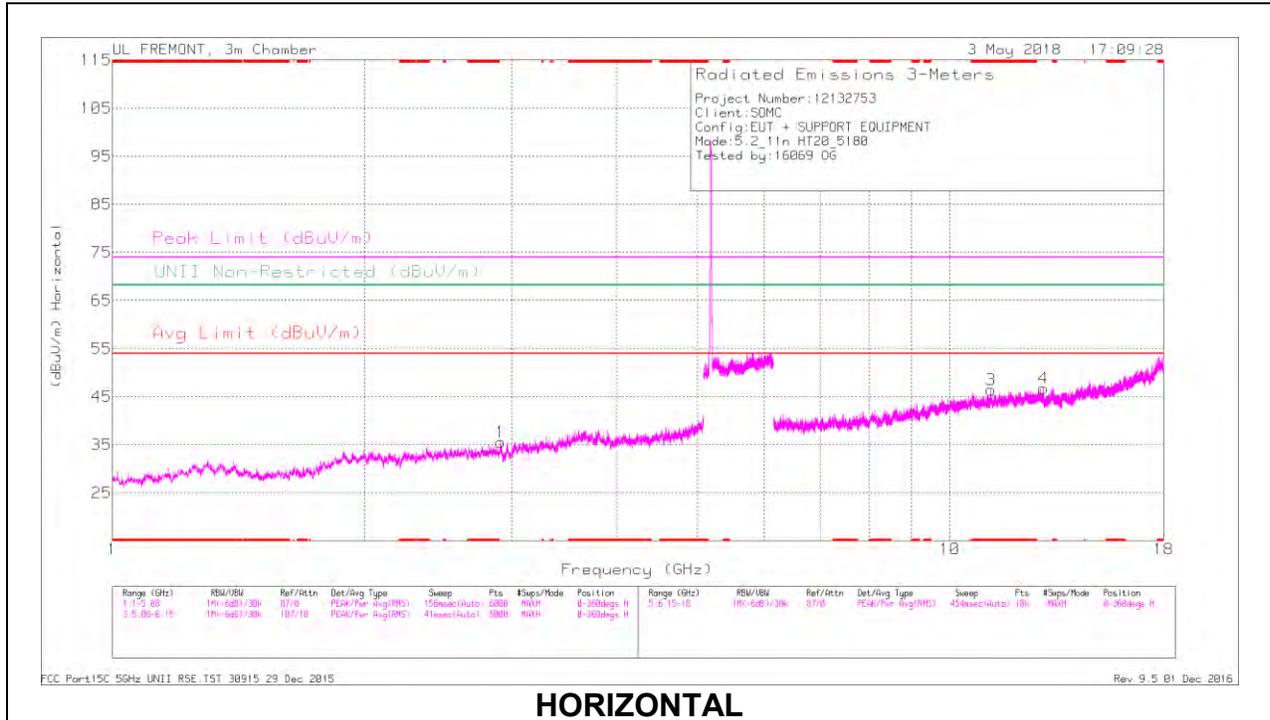


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.03	42.41	Pk	34.3	-18	0	58.71	-	-	74	-15.29	217	301	V
4	* 5.082	29.11	RMS	34.4	-18	.1	45.61	54	-8.39	-	-	217	301	V
1	* 5.15	39.62	Pk	34.4	-18.1	0	55.92	-	-	74	-18.08	217	301	V
3	* 5.15	26.55	RMS	34.4	-18.1	.1	42.95	54	-11.05	-	-	217	301	V

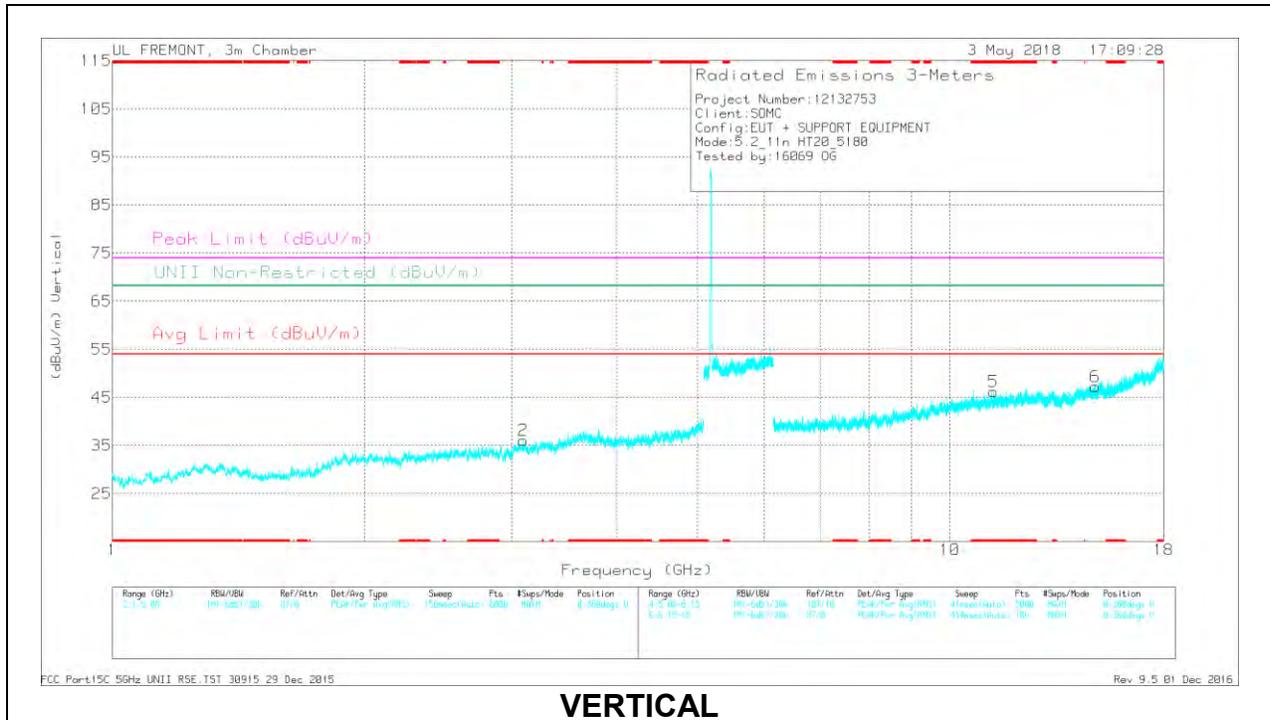
* - indicates frequency in CFR47 Pt 15 Restricted Band
 Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



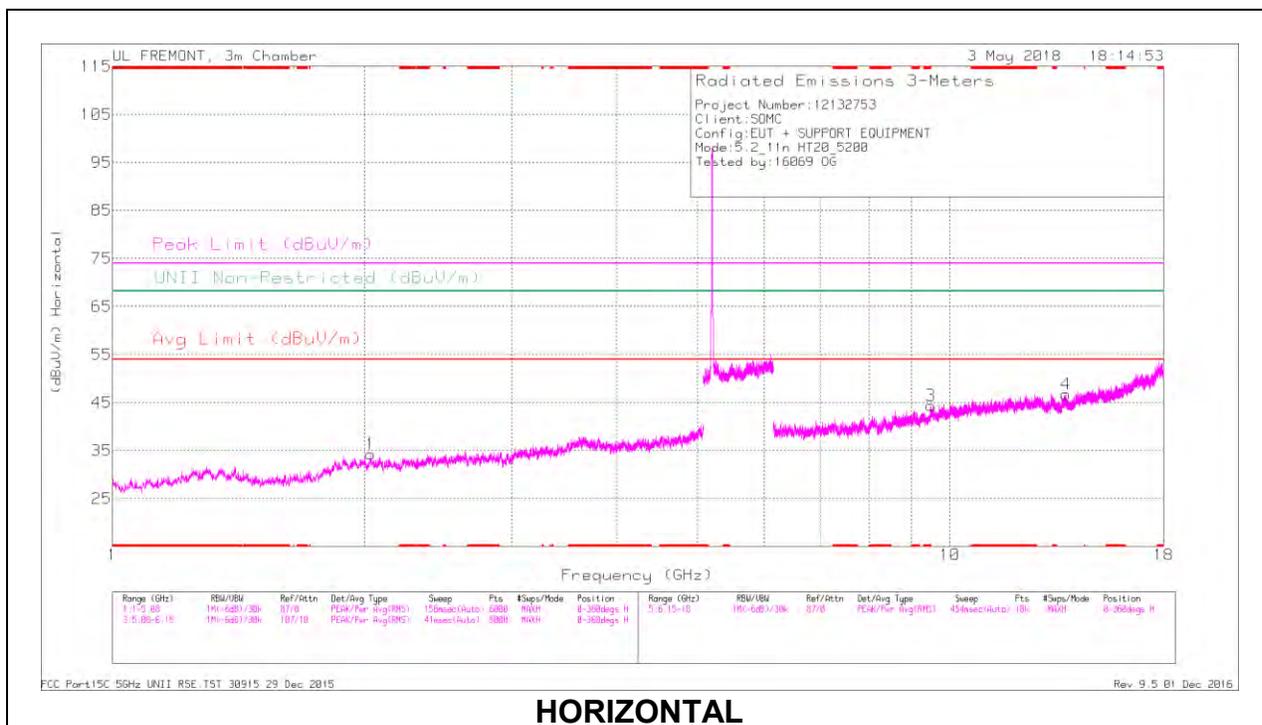
VERTICAL

RADIATED EMISSIONS

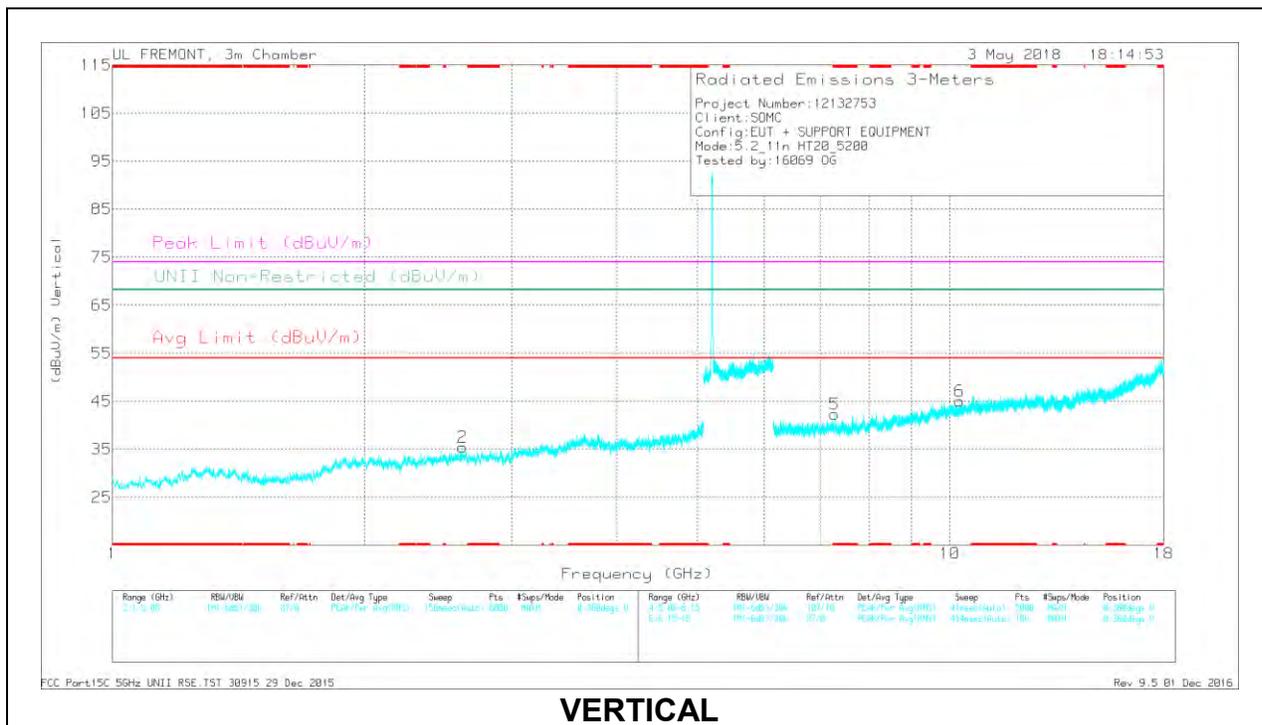
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 11.187	34.65	PK-U	38.2	-20.9	0	51.95	-	-	74	-22.05	-	-	99	189	H
	* 11.189	22.72	ADR	38.2	-20.9	.1	40.12	54	-13.88	-	-	-	-	99	189	H
5	* 11.265	34.38	PK-U	38.3	-21.2	0	51.48	-	-	74	-22.52	-	-	227	169	V
	* 11.265	22.53	ADR	38.3	-21.2	.1	39.73	54	-14.27	-	-	-	-	227	169	V
1	2.911	38.32	PK-U	32.9	-29.4	0	41.82	-	-	-	-	68.2	-26.38	91	292	H
2	3.094	38.37	PK-U	33.2	-29.1	0	42.47	-	-	-	-	68.2	-25.73	211	103	V
4	12.933	35.87	PK-U	39.2	-21.7	0	53.37	-	-	-	-	68.2	-14.83	52	398	H
6	14.911	36.26	PK-U	40	-20.8	0	55.46	-	-	-	-	68.2	-12.74	218	284	V

* - indicates frequency in CFR47 Pt 15 Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



HORIZONTAL



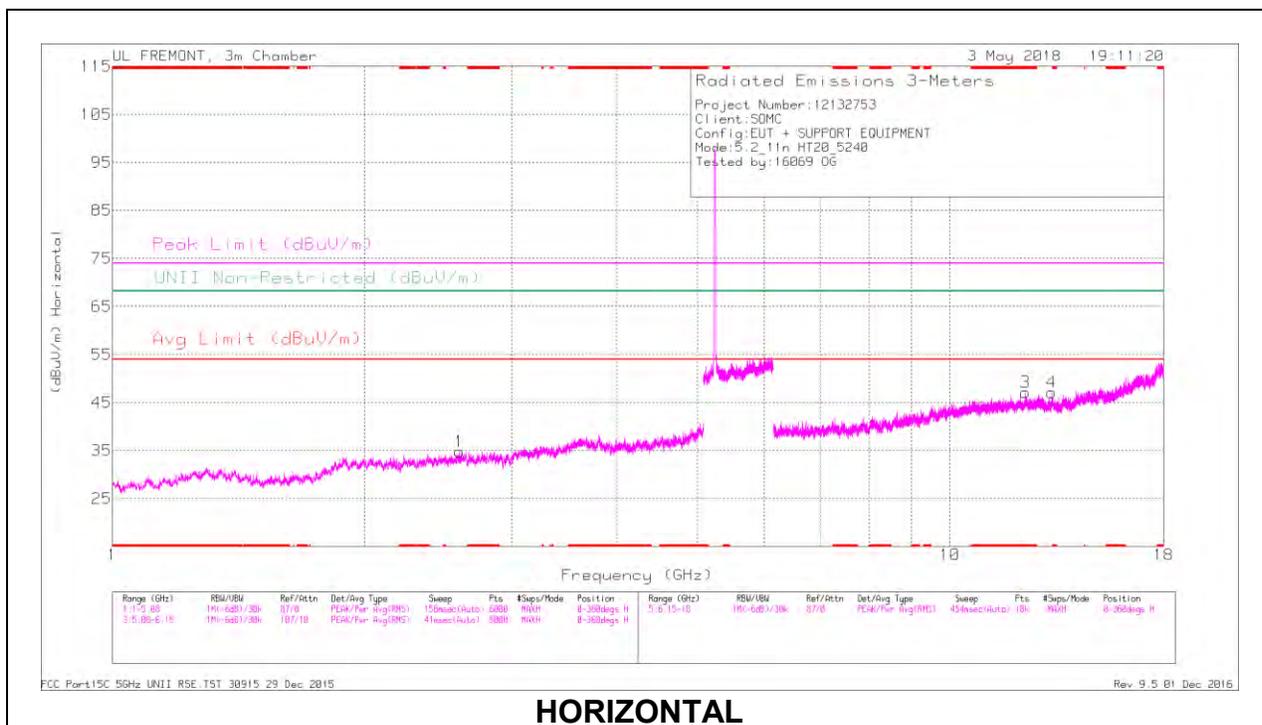
VERTICAL

RADIATED EMISSIONS

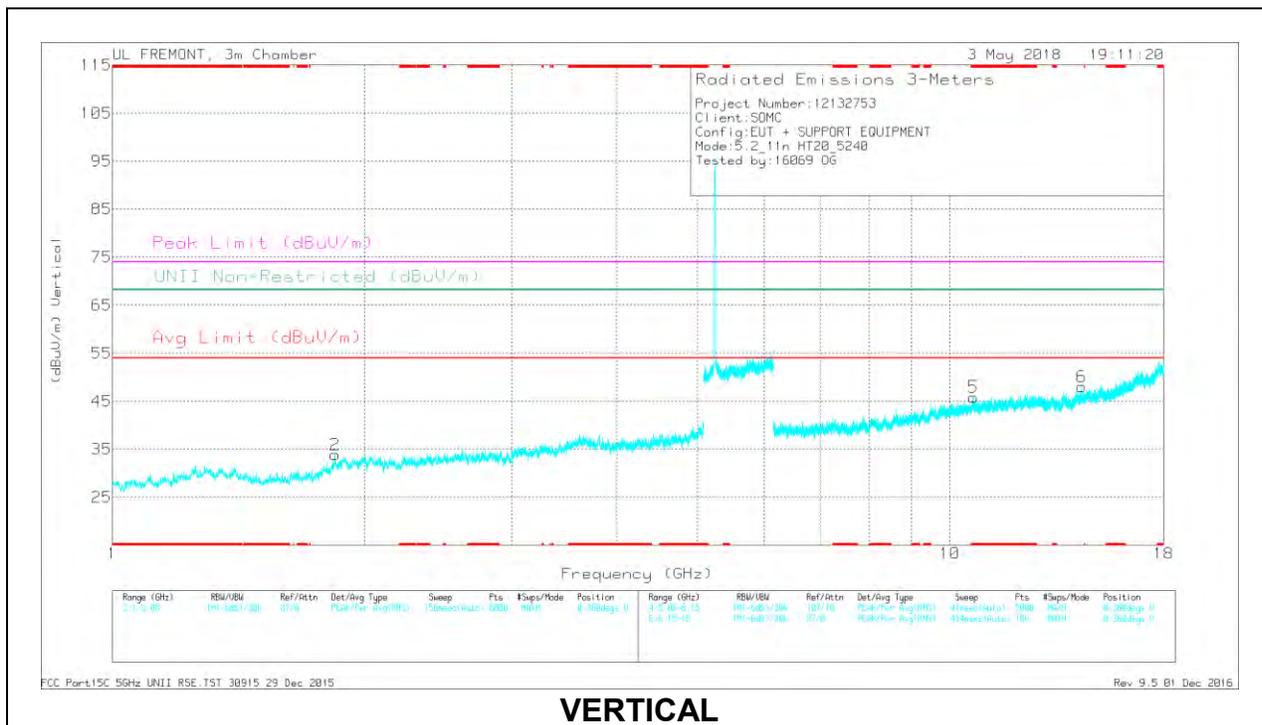
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 9.49	34.43	PK-U	36.7	-21	0	50.13	-	-	74	-23.87	-	-	283	399	H
	* 9.491	22.72	ADR	36.7	-20.9	.1	38.62	54	-15.38	-	-	-	-	283	399	H
5	* 7.288	35.66	PK-U	35.7	-23.6	0	47.76	-	-	74	-26.24	-	-	119	295	V
	* 7.288	23.98	ADR	35.7	-23.6	.1	36.18	54	-17.82	-	-	-	-	119	295	V
1	2.034	40.61	PK-U	31.9	-30.7	0	41.81	-	-	-	-	68.2	-26.39	169	103	H
2	2.62	39.08	PK-U	32.5	-29.9	0	41.68	-	-	-	-	68.2	-26.52	52	398	V
6	10.278	33.26	PK-U	37.5	-20.7	0	50.06	-	-	-	-	68.2	-18.14	58	383	V
4	13.76	35.19	PK-U	38.8	-22.1	0	51.89	-	-	-	-	68.2	-16.31	1	118	H

* - indicates frequency in CFR47 Pt 15 Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

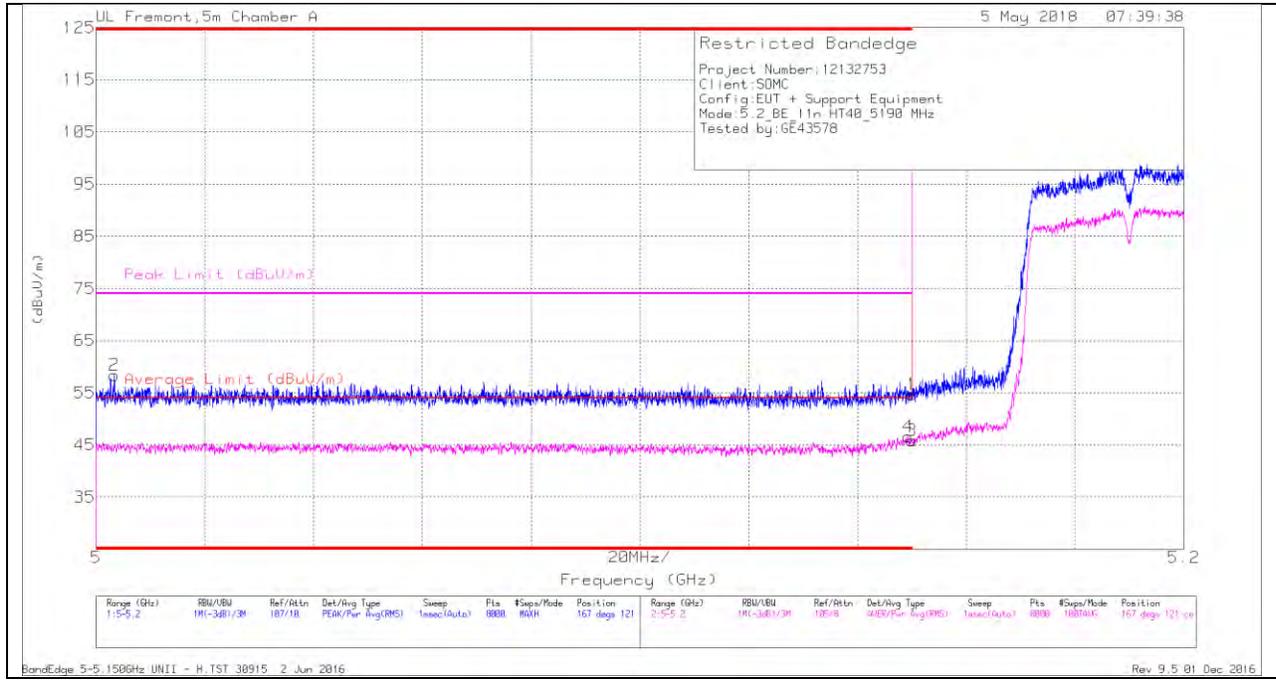
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 12.301	34.33	PK-U	39.1	-20.3	0	53.13	-	-	74	-20.87	-	-	76	180	H
	* 12.303	22.49	ADR	39.1	-20.6	.1	41.09	54	-12.91	-	-	-	-	76	180	H
5	* 10.662	34.62	PK-U	37.8	-20.4	0	52.02	-	-	74	-21.98	-	-	36	233	V
	* 10.662	23.18	ADR	37.8	-20.4	.1	40.68	54	-13.32	-	-	-	-	36	233	V
2	1.843	40.15	PK-U	30.9	-30.3	0	40.75	-	-	-	-	68.2	-27.45	93	359	V
1	2.598	38.31	PK-U	32.4	-29.7	0	41.01	-	-	-	-	68.2	-27.19	261	362	H
4	13.227	34.44	PK-U	38.9	-21	0	52.34	-	-	-	-	68.2	-15.86	188	173	H
6	14.359	35.57	PK-U	39.6	-22.2	0	52.97	-	-	-	-	68.2	-15.23	113	157	V

* - indicates frequency in CFR47 Pt 15 Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

10.1.3. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.2 GHz BAND

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



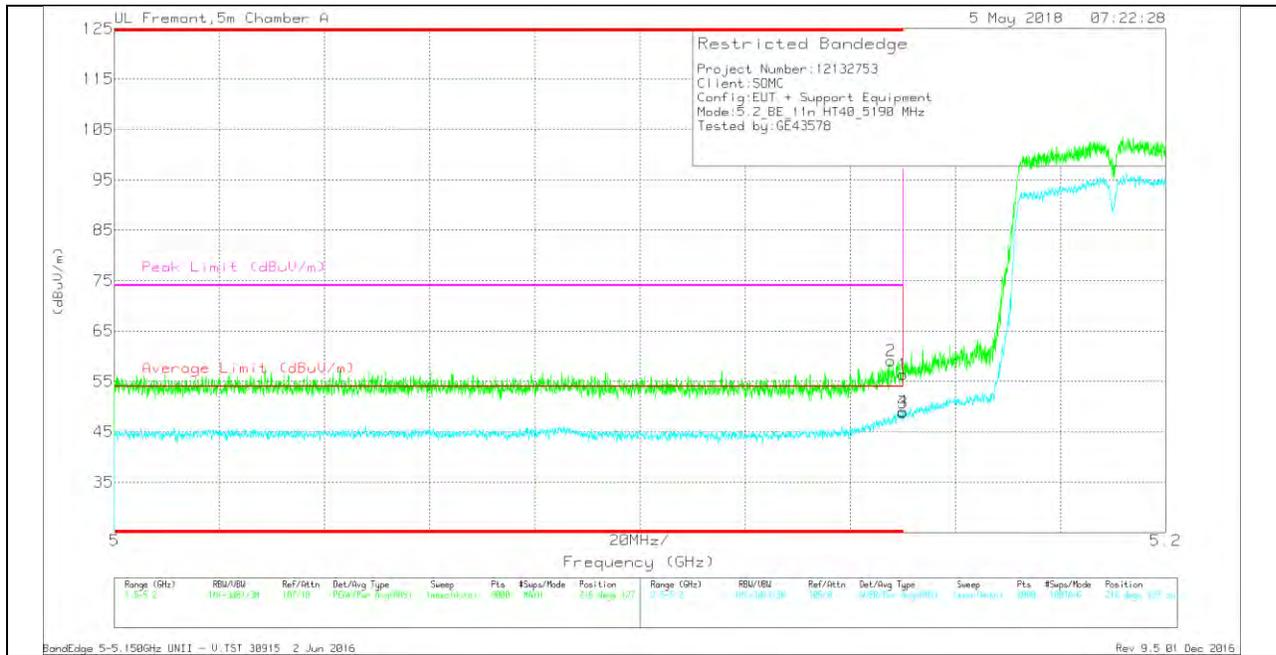
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.003	41.92	Pk	34.3	-17.9	0	58.32	-	-	74	-15.68	167	121	H
4	* 5.149	29.96	RMS	34.4	-18.1	.32	46.58	54	-7.42	-	-	167	121	H
1	* 5.15	38.37	Pk	34.4	-18.1	0	54.67	-	-	74	-19.33	167	121	H
3	* 5.15	29.17	RMS	34.4	-18.1	.32	45.79	54	-8.21	-	-	167	121	H

* - indicates frequency in CFR47 Pt 15 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

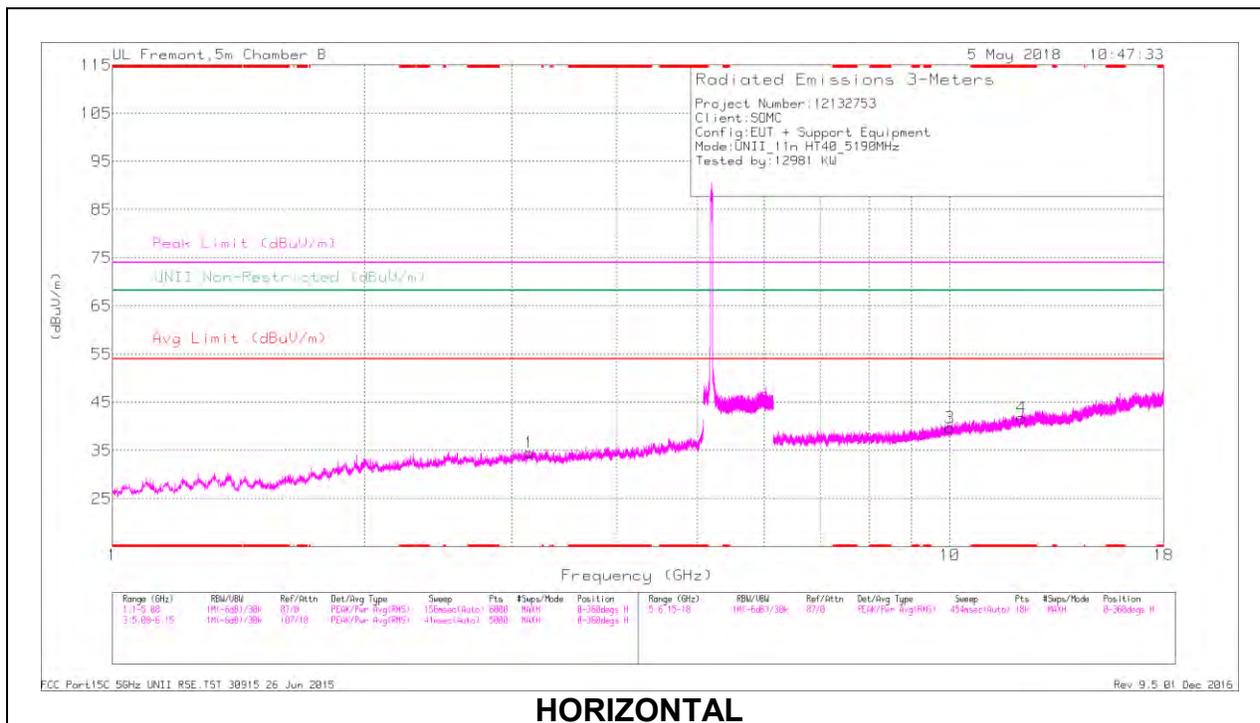


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.148	42.86	Pk	34.4	-18.1	0	59.16	-	-	74	-14.84	216	127	V
1	* 5.15	40.13	Pk	34.4	-18.1	0	56.43	-	-	74	-17.57	216	127	V
3	* 5.15	32.16	RMS	34.4	-18.1	.32	48.78	54	-5.22	-	-	216	127	V
4	* 5.15	32.45	RMS	34.4	-18.1	.32	49.07	54	-4.93	-	-	216	127	V

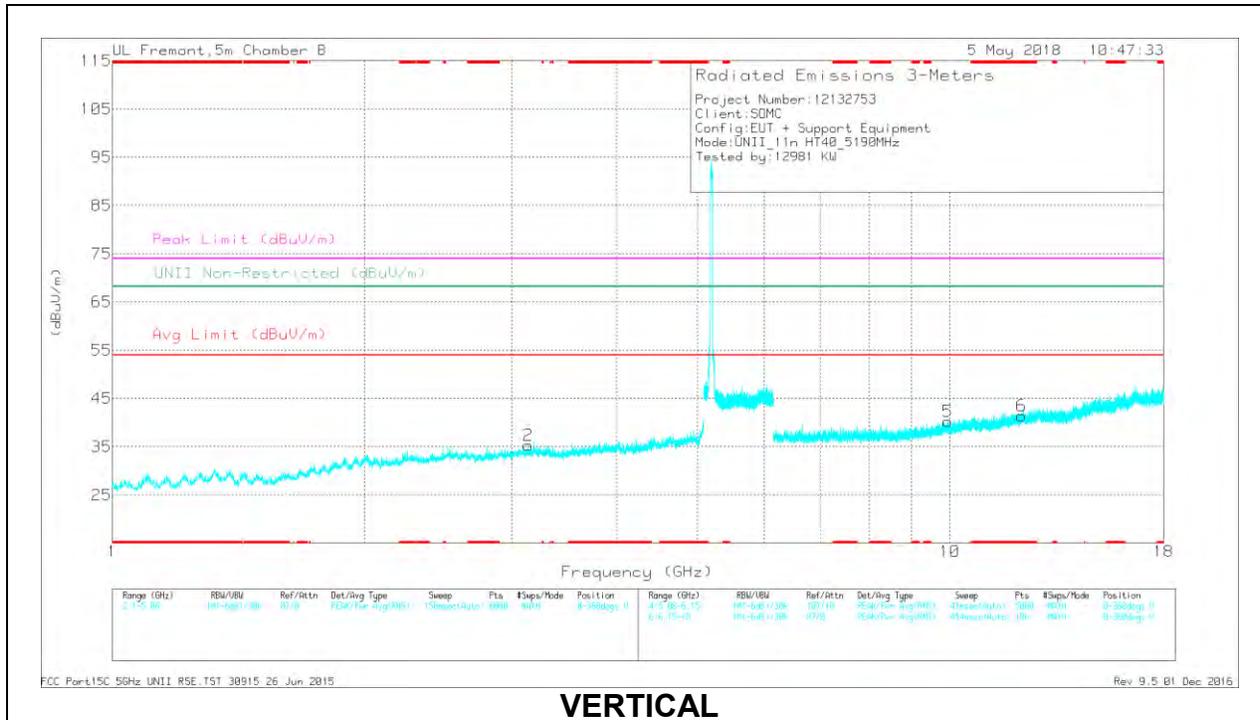
* - indicates frequency in CFR47 Pt 15 Restricted Band
 Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



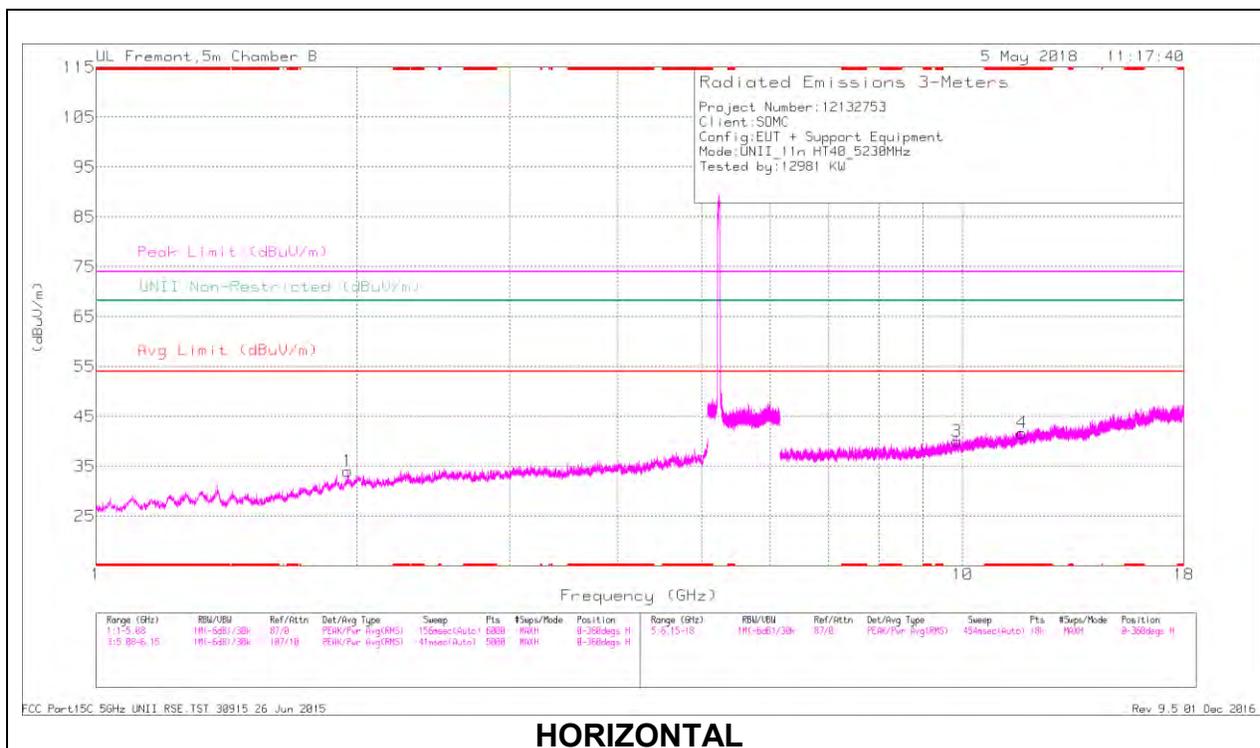
VERTICAL

RADIATED EMISSIONS

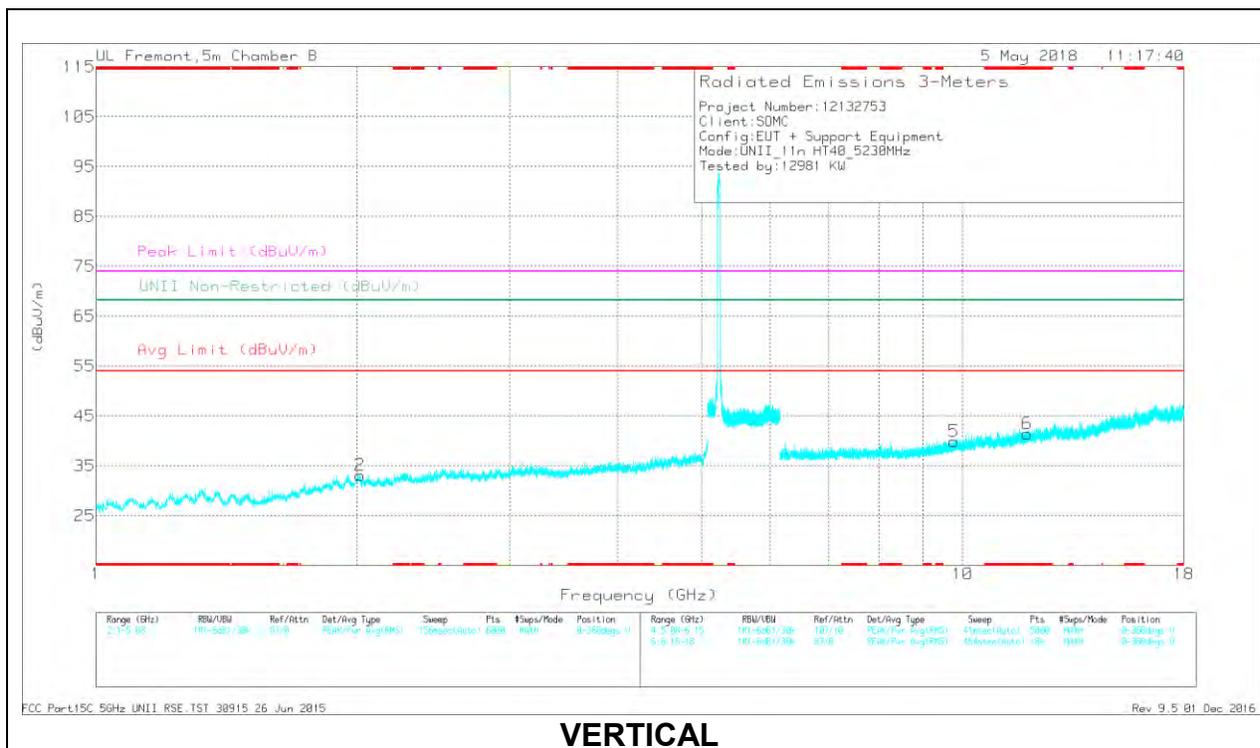
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 12.184	34.17	PK-U	39.1	-24	0	49.27	-	-	74	-24.73	-	-	46	116	H
	* 12.182	22.06	ADR	39.1	-24	.32	37.48	54	-16.52	-	-	-	-	46	116	H
6	* 12.184	33.77	PK-U	39.1	-24	0	48.87	-	-	74	-25.13	-	-	112	251	V
	* 12.182	21.76	ADR	39.1	-24	.32	37.18	54	-16.82	-	-	-	-	112	251	V
2	3.138	40.82	PK-U	33	-32.1	0	41.72	-	-	-	-	68.2	-26.48	96	116	V
1	3.146	39.97	PK-U	33	-32	0	40.97	-	-	-	-	68.2	-27.23	86	118	H
5	9.943	35.21	PK-U	37.1	-25.7	0	46.61	-	-	-	-	68.2	-21.59	311	153	V
3	9.994	34.35	PK-U	37.1	-25.9	0	45.55	-	-	-	-	68.2	-22.65	251	178	H

* - indicates frequency in CFR47 Pt 15 Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

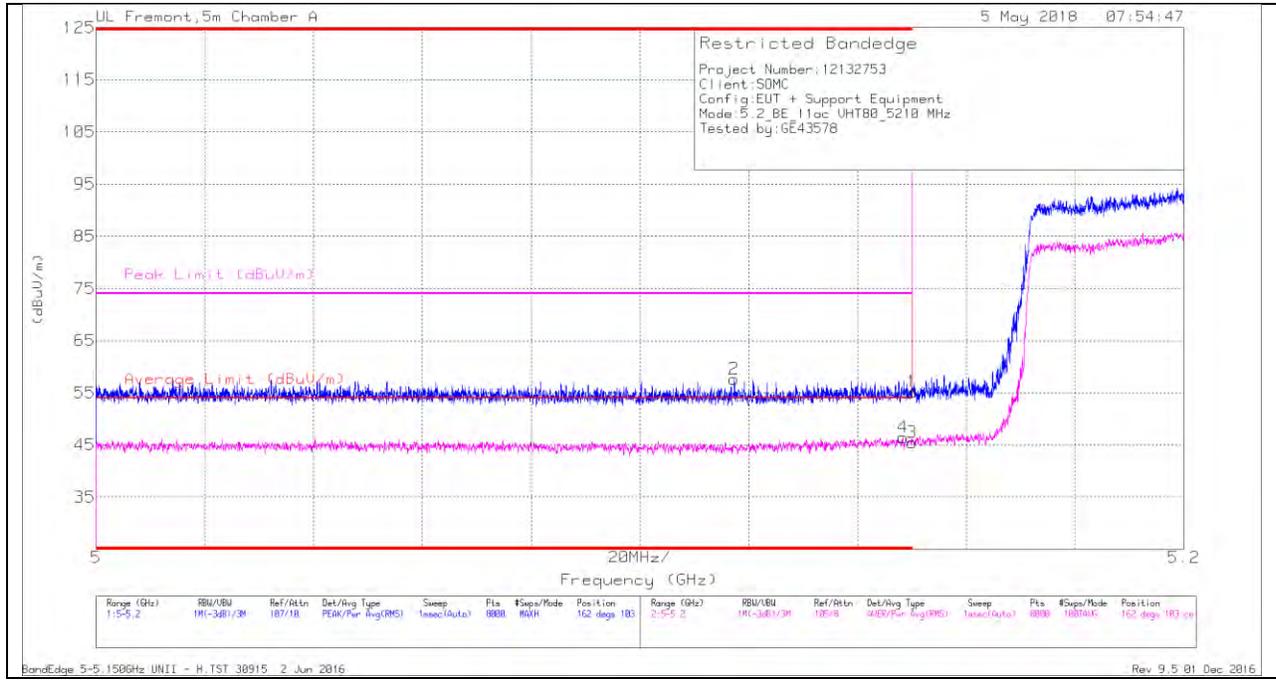
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4	* 11.709	33.62	PK-U	38.4	-24.5	0	47.52	-	-	74	-26.48	-	-	80	199	H
	* 11.712	21.97	ADR	38.4	-24.6	.32	36.09	54	-17.91	-	-	-	-	80	199	H
6	* 11.865	34.18	PK-U	38.6	-24.1	0	48.68	-	-	74	-25.32	-	-	119	189	V
	* 11.865	21.77	ADR	38.6	-24.1	.32	36.59	54	-17.41	-	-	-	-	119	189	V
1	1.952	41.65	PK-U	31.1	-32.8	0	39.95	-	-	-	-	68.2	-28.25	69	177	H
2	2.019	40.96	PK-U	31.3	-32.6	0	39.66	-	-	-	-	68.2	-28.54	88	116	V
5	9.77	34.27	PK-U	36.9	-25.3	0	45.87	-	-	-	-	68.2	-22.33	161	114	V
3	9.839	33.96	PK-U	37	-24.6	0	46.36	-	-	-	-	68.2	-21.84	231	128	H

* - indicates frequency in CFR47 Pt 15 Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

10.1.4. TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.2 GHz BAND

BANDEDGE (MID CHANNEL)

HORIZONTAL RESULT



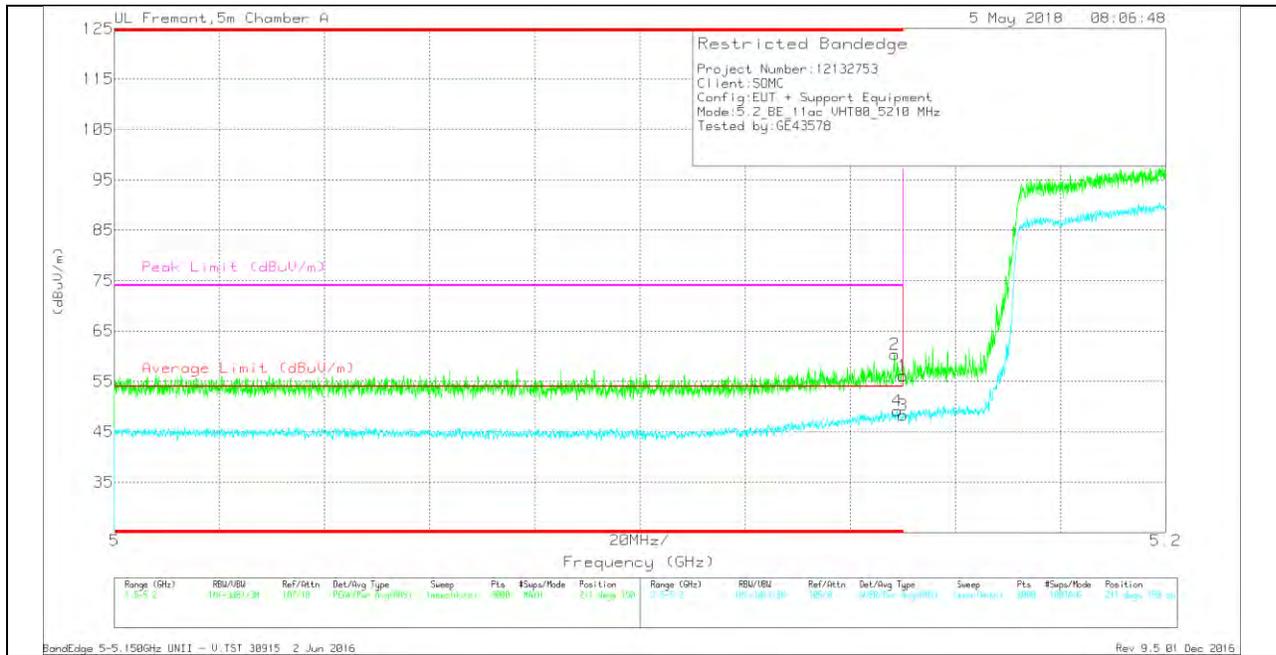
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.117	41.2	Pk	34.4	-18	0	57.6	-	-	74	-16.4	162	103	H
4	* 5.148	29.49	RMS	34.4	-18.1	.62	46.41	54	-7.59	-	-	162	103	H
1	* 5.15	38.88	Pk	34.4	-18.1	0	55.18	-	-	74	-18.82	162	103	H
3	* 5.15	28.48	RMS	34.4	-18.1	.62	45.4	54	-8.6	-	-	162	103	H

* - indicates frequency in CFR47 Pt 15 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

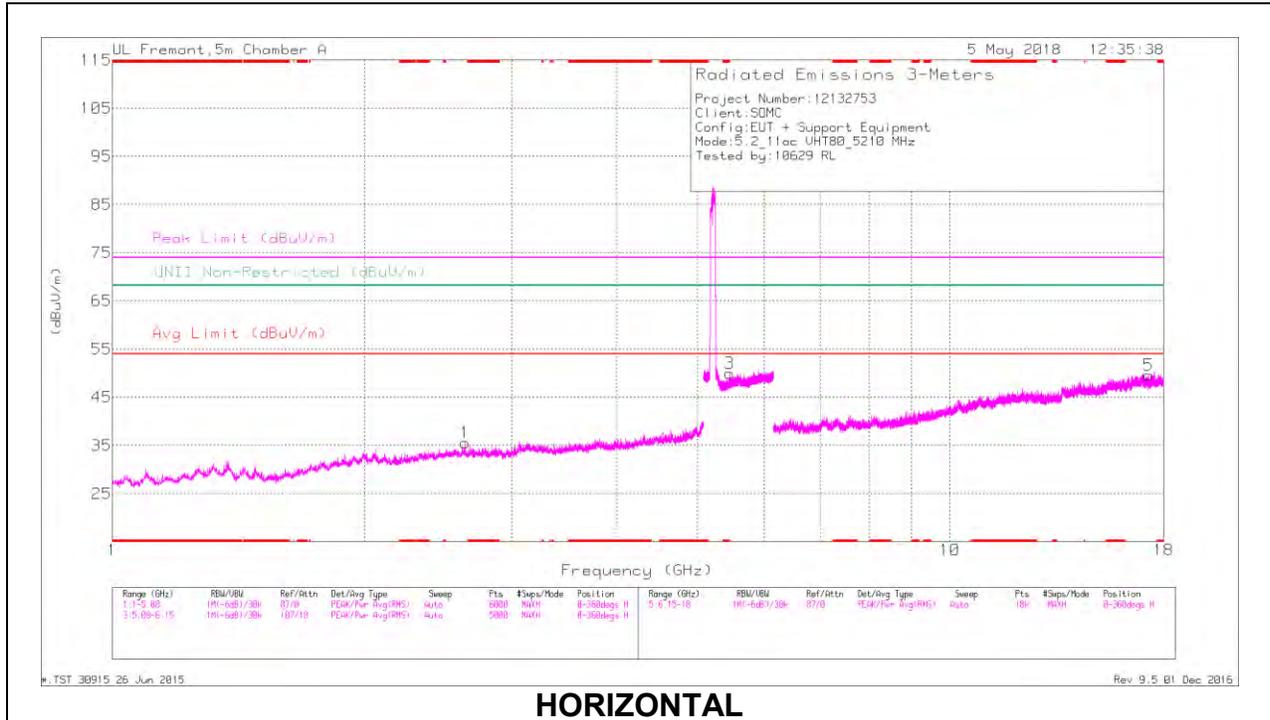


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.148	44.09	Pk	34.4	-18.1	0	60.39	-	-	74	-13.61	211	150	V
4	* 5.149	32.29	RMS	34.4	-18.1	.62	49.21	54	-4.79	-	-	211	150	V
1	* 5.15	39.79	Pk	34.4	-18.1	0	56.09	-	-	74	-17.91	211	150	V
3	* 5.15	31.37	RMS	34.4	-18.1	.62	48.29	54	-5.71	-	-	211	150	V

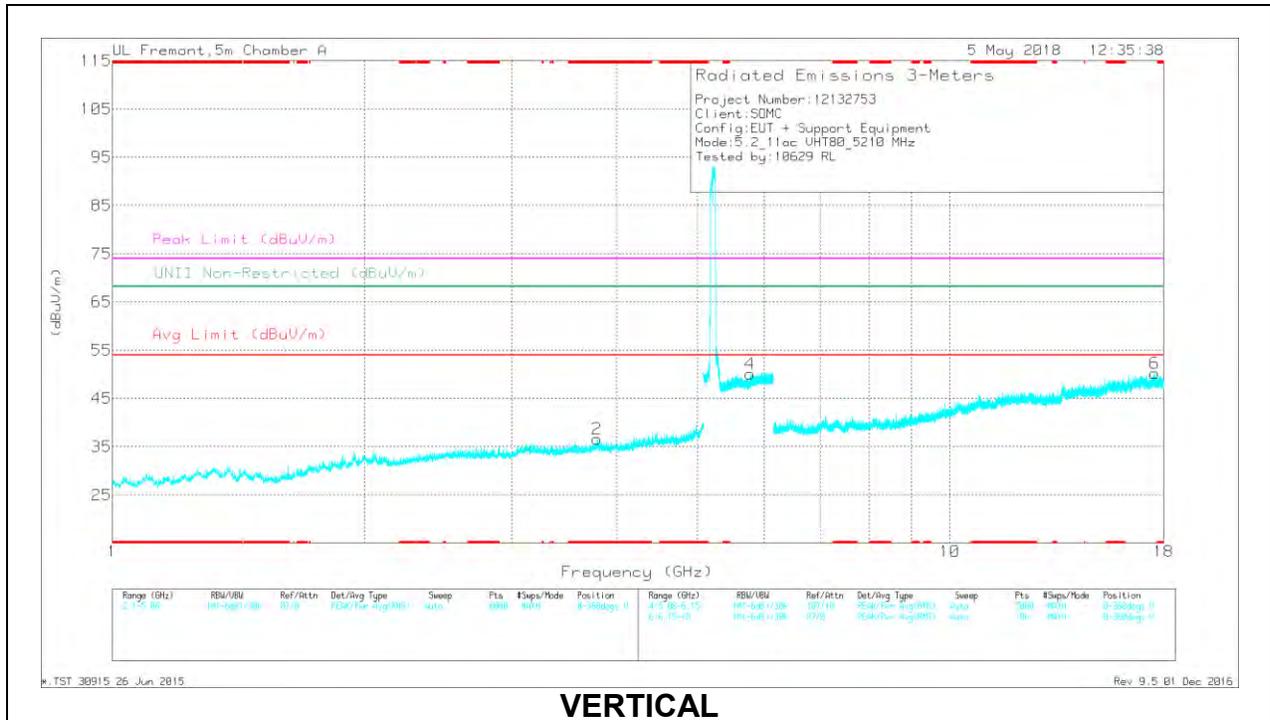
* - indicates frequency in CFR47 Pt 15 Restricted Band
 Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

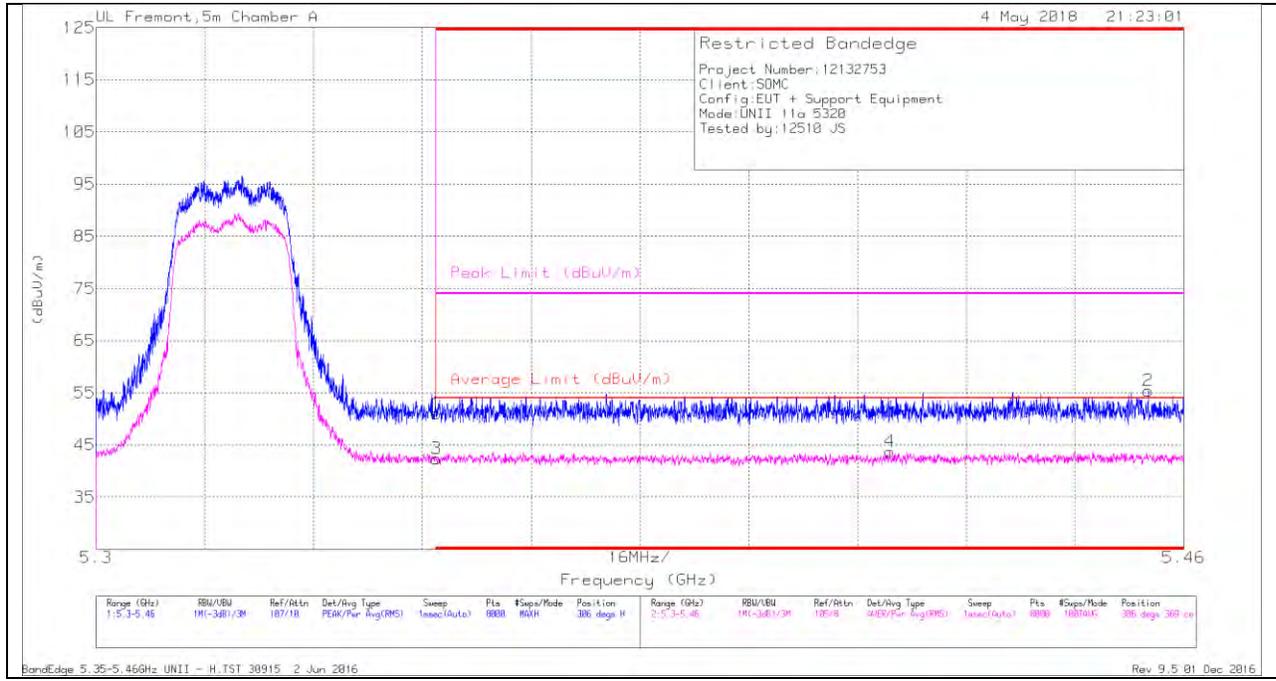
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 3.79	37.38	PK-U	33.2	-28.2	0	42.38	-	-	74	-31.62	-	-	61	170	V
	* 3.794	26.44	ADR	33.2	-28.2	.62	32.06	54	-21.94	-	-	-	-	61	170	V
3	* 5.452	38.11	PK-U	34.7	-18.4	0	54.41	-	-	74	-19.59	-	-	279	203	H
	* 5.448	27.43	ADR	34.7	-18.4	.62	44.35	54	-9.65	-	-	-	-	279	203	H
1	2.637	33.48	Pk	32.5	-30.4	0	35.58	-	-	-	-	68.2	-32.62	0-360	101	H
4	5.776	33.36	Pk	35	-18.2	0	50.16	-	-	-	-	68.2	-18.04	0-360	200	V
5	17.275	27.76	Pk	41.2	-19.4	0	49.56	-	-	-	-	68.2	-18.64	0-360	101	H
6	17.559	27.26	Pk	41.2	-18.2	0	50.26	-	-	-	-	68.2	-17.94	0-360	101	V

* - indicates frequency in CFR47 Pt 15 Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



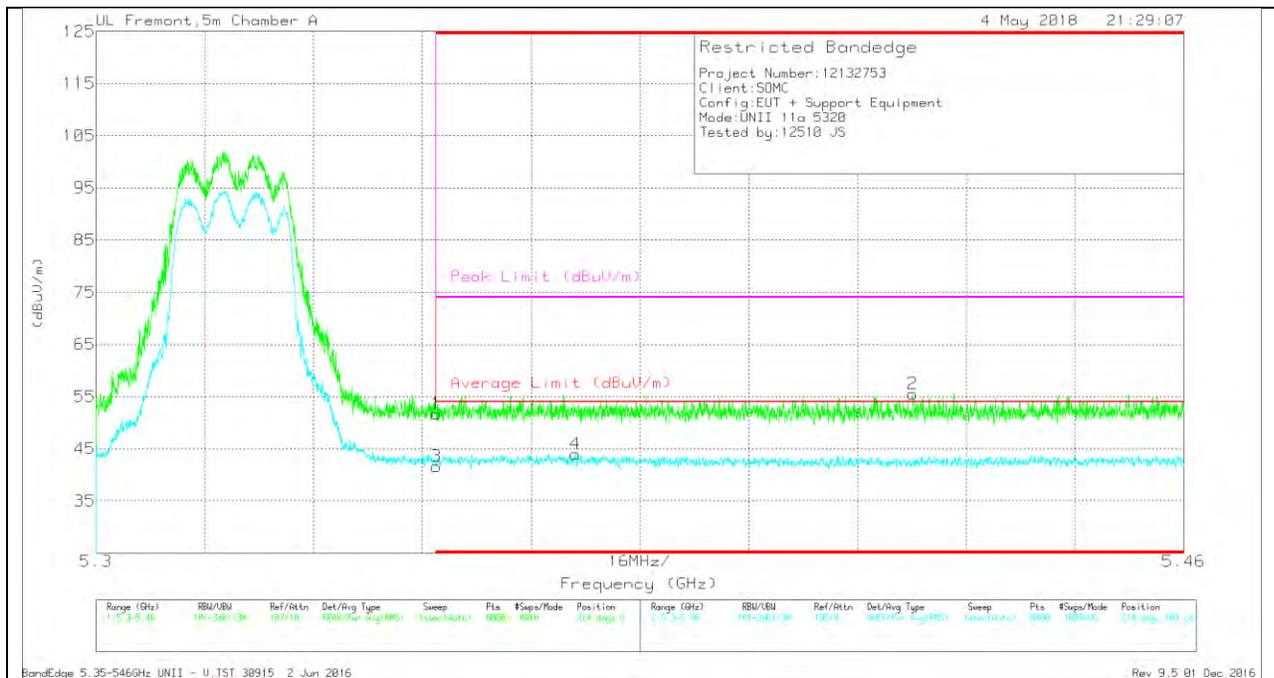
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	34.62	Pk	34.6	-18.2	0	51.02	-	-	74	-22.98	306	369	H
3	* 5.35	25.91	RMS	34.6	-18.2	0	42.31	54	-11.69	-	-	306	369	H
4	* 5.417	27.42	RMS	34.7	-18.4	0	43.72	54	-10.28	-	-	306	369	H
2	* 5.455	39.11	Pk	34.7	-18.4	0	55.41	-	-	74	-18.59	306	369	H

* - indicates frequency in CFR47 Pt 15 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

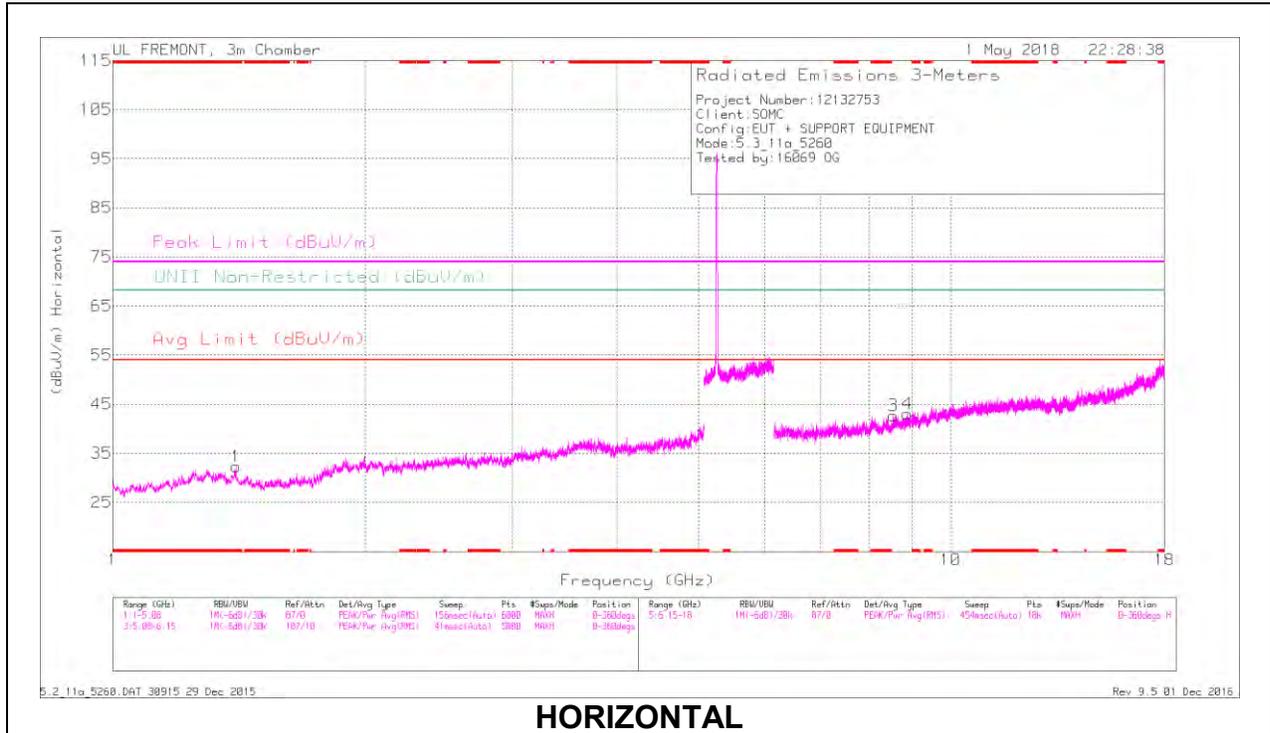


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	35.25	Pk	34.6	-18.2	0	51.65	-	-	74	-22.35	214	109	V
3	* 5.35	25.24	RMS	34.6	-18.2	0	41.64	54	-12.36	-	-	214	109	V
4	* 5.371	27.6	RMS	34.6	-18.2	0	44	54	-10	-	-	214	109	V
2	* 5.42	39.2	Pk	34.7	-18.4	0	55.5	-	-	74	-18.5	214	109	V

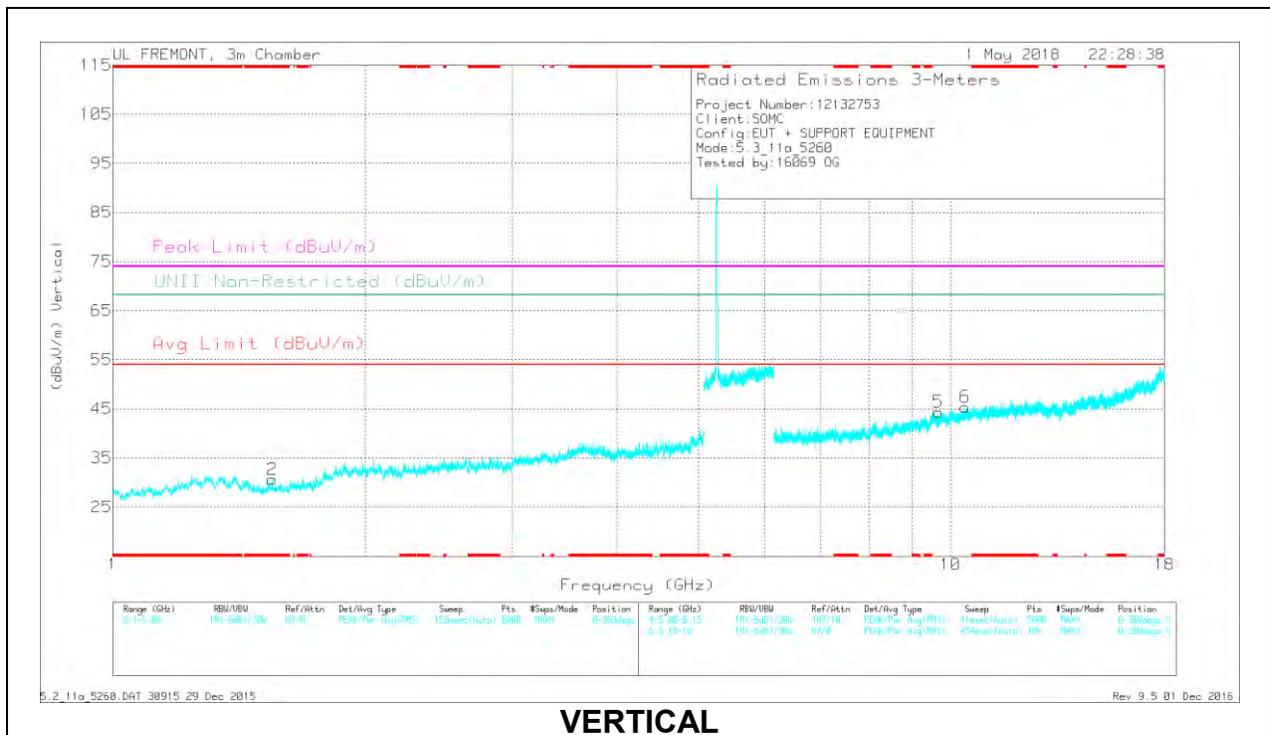
* - indicates frequency in CFR47 Pt 15 Restricted Band
 Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



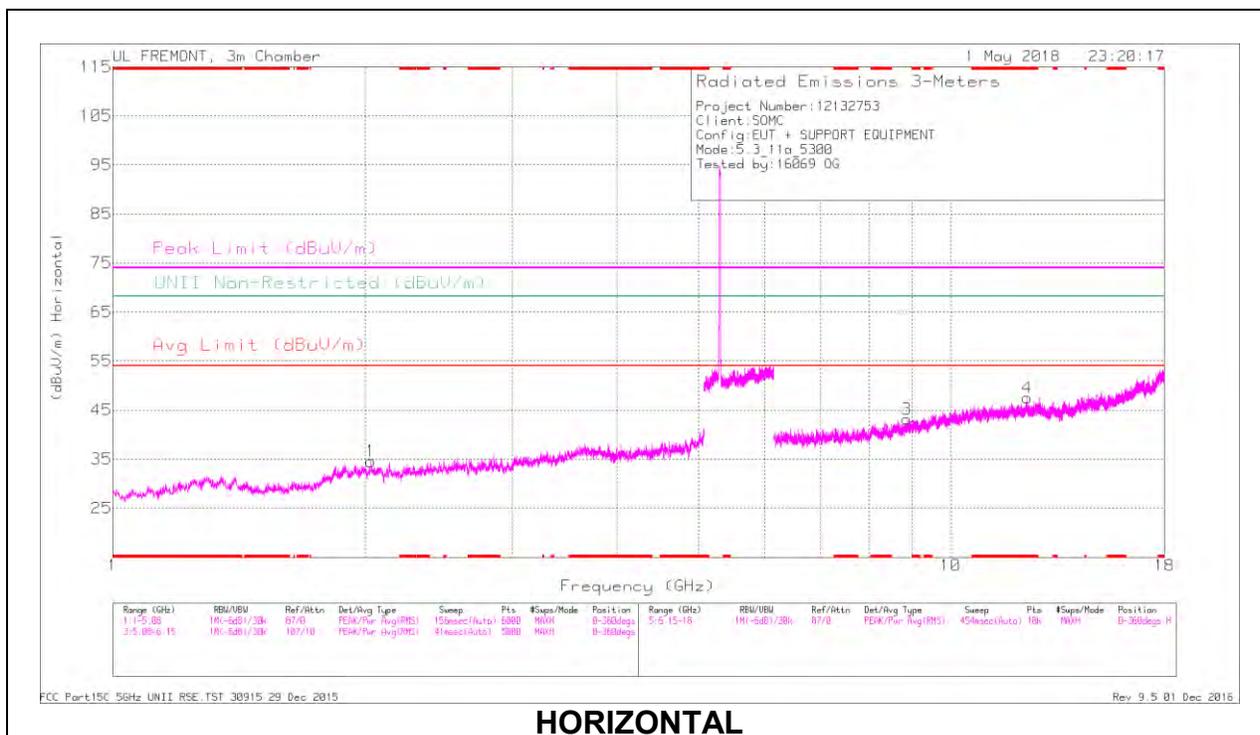
VERTICAL

RADIATED EMISSIONS

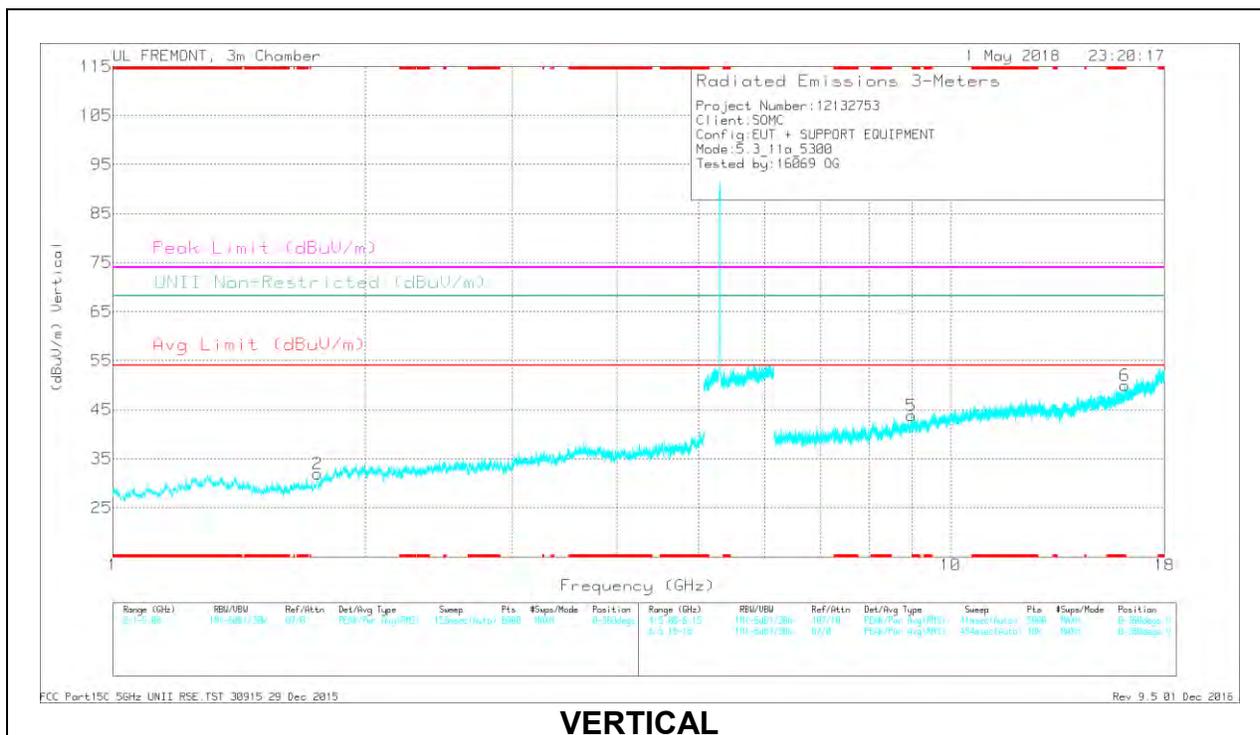
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.402	39.53	PK-U	29.3	-31	0	37.83	-	-	74	-36.17	-	-	280	353	H
	* 1.401	27.72	ADR	29.3	-30.9	0	26.12	54	-27.88	-	-	-	-	280	353	H
2	* 1.551	39.77	PK-U	28	-30.8	0	36.97	-	-	74	-37.03	-	-	193	263	V
	* 1.551	27.34	ADR	28	-30.8	0	24.54	54	-29.46	-	-	-	-	193	263	V
3	8.541	34.58	PK-U	35.8	-21.9	0	48.48	-	-	-	-	68.2	-19.72	187	293	H
4	8.878	34.91	PK-U	36.1	-22	0	49.01	-	-	-	-	68.2	-19.19	132	342	H
5	9.663	34.38	PK-U	36.9	-21.6	0	49.68	-	-	-	-	68.2	-18.52	16	373	V
6	10.409	34.76	PK-U	37.6	-21.4	0	50.96	-	-	-	-	68.2	-17.24	317	118	V

* - indicates frequency in CFR47 Pt 15 Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



HORIZONTAL



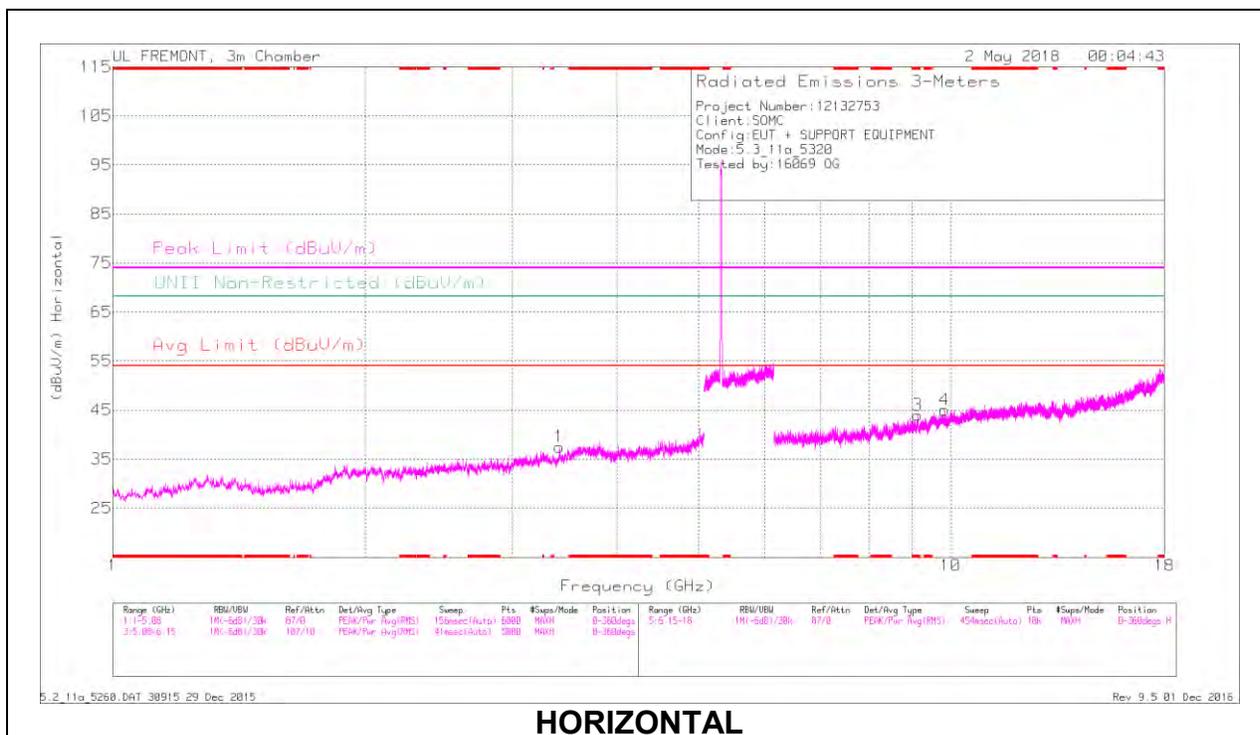
VERTICAL

RADIATED EMISSIONS

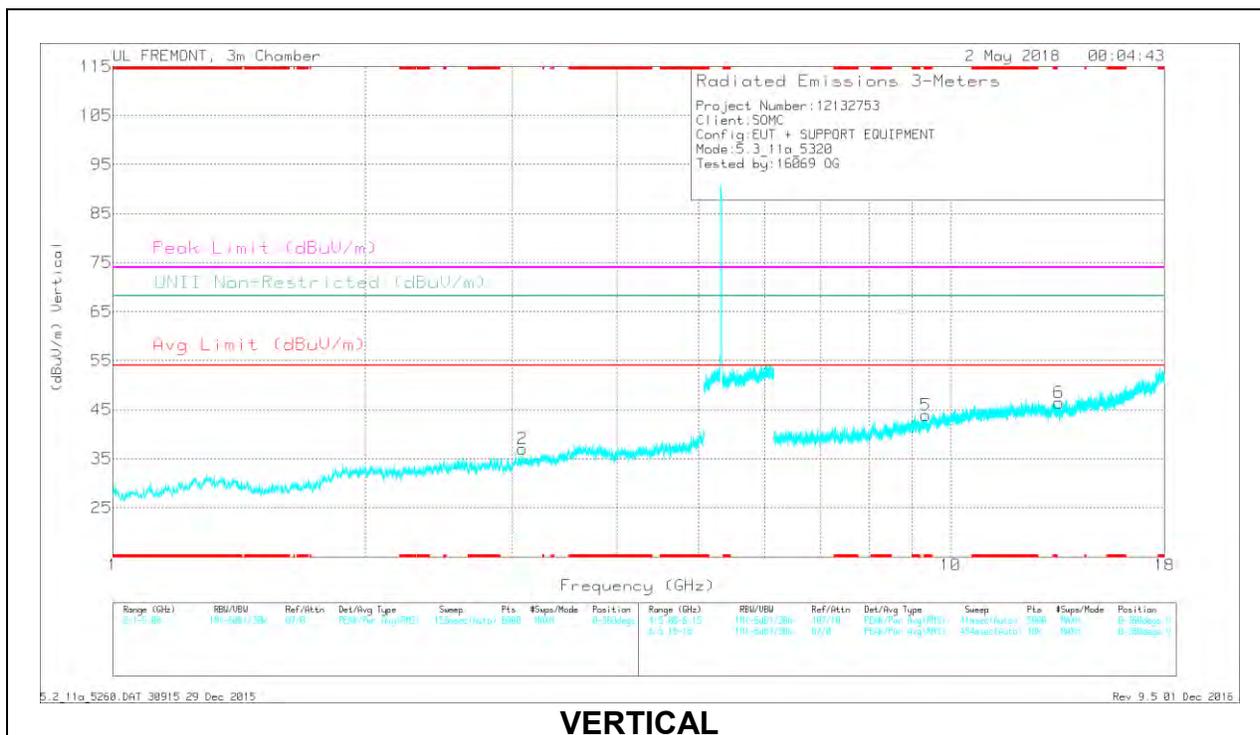
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 12.345	34.31	PK-U	39.1	-21.3	0	52.11	-	-	74	-21.89	-	-	101	288	H
	* 12.345	22.93	ADR	39.1	-21.3	0	40.73	54	-13.27	-	-	-	-	101	288	H
6	* 16.156	34.01	PK-U	40.6	-19.4	0	55.21	-	-	74	-18.79	-	-	235	131	V
	* 16.154	22.61	ADR	40.6	-19.3	0	43.91	54	-10.09	-	-	-	-	235	131	V
2	1.754	38.94	PK-U	29.5	-31	0	37.44	-	-	-	-	68.2	-30.76	0	184	V
1	2.032	39.38	PK-U	31.9	-30.7	0	40.58	-	-	-	-	68.2	-27.62	270	135	H
3	8.869	34.93	PK-U	36.1	-22.2	0	48.83	-	-	-	-	68.2	-19.37	140	200	H
5	8.976	35.58	PK-U	36.1	-21.9	0	49.78	-	-	-	-	68.2	-18.42	237	329	V

* - indicates frequency in CFR47 Pt 15 Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

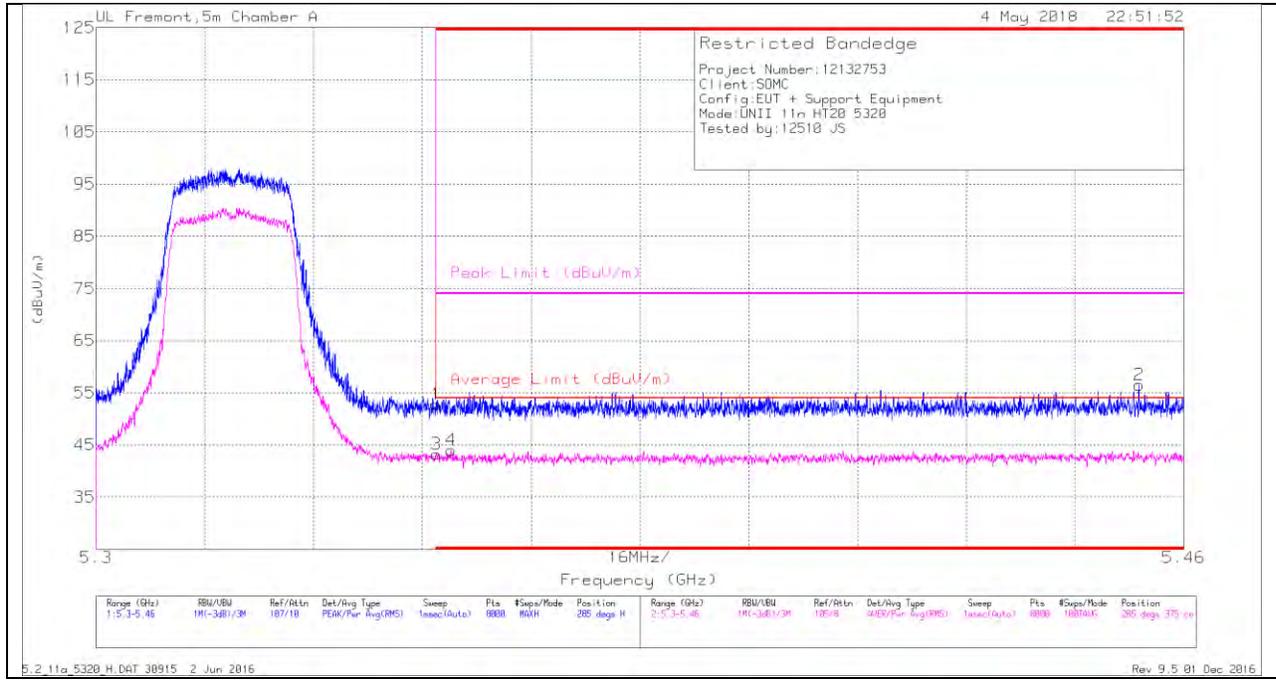
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 9.138	34.06	PK-U	36.2	-21	0	49.26	-	-	74	-24.74	-	-	253	118	H
	* 9.138	22.68	ADR	36.2	-21	0	37.88	54	-16.12	-	-	-	-	253	118	H
5	* 9.343	34.29	PK-U	36.5	-20.9	0	49.89	-	-	74	-24.11	-	-	155	271	V
	* 9.342	22.26	ADR	36.5	-20.9	0	37.86	54	-16.14	-	-	-	-	155	271	V
2	3.084	38.65	PK-U	33.2	-29.6	0	42.25	-	-	-	-	68.2	-25.95	262	231	V
1	3.411	38.48	PK-U	33.7	-29	0	43.18	-	-	-	-	68.2	-25.02	311	309	H
4	9.839	34.1	PK-U	37.2	-20.6	0	50.7	-	-	-	-	68.2	-17.5	240	280	H
6	13.465	35.03	PK-U	38.8	-22.3	0	51.53	-	-	-	-	68.2	-16.67	253	128	V

* - indicates frequency in CFR47 Pt 15 Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

10.1.6. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.3 GHz BAND

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



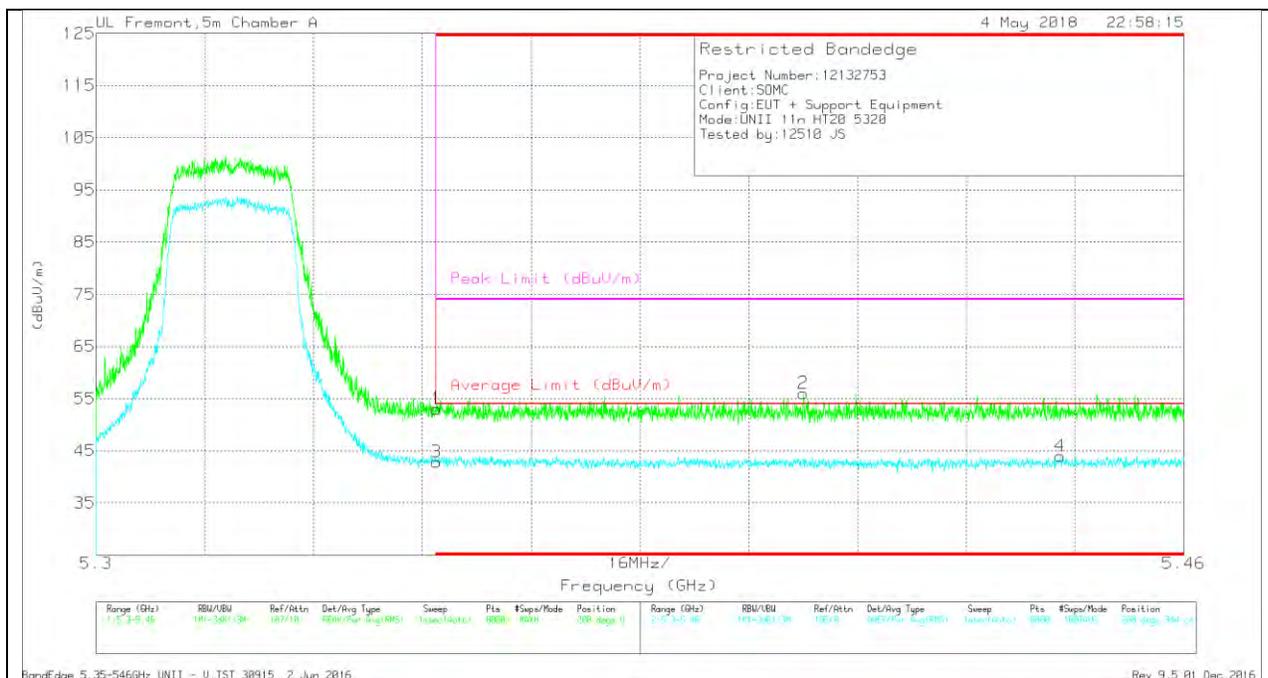
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	36.41	Pk	34.6	-18.2	0	52.81	-	-	74	-21.19	285	375	H
3	* 5.35	26.76	RMS	34.6	-18.2	.1	43.26	54	-10.74	-	-	285	375	H
4	* 5.352	27.41	RMS	34.6	-18.2	.1	43.91	54	-10.09	-	-	285	375	H
2	* 5.453	40.15	Pk	34.7	-18.4	0	56.45	-	-	74	-17.55	285	375	H

* - indicates frequency in CFR47 Pt 15 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

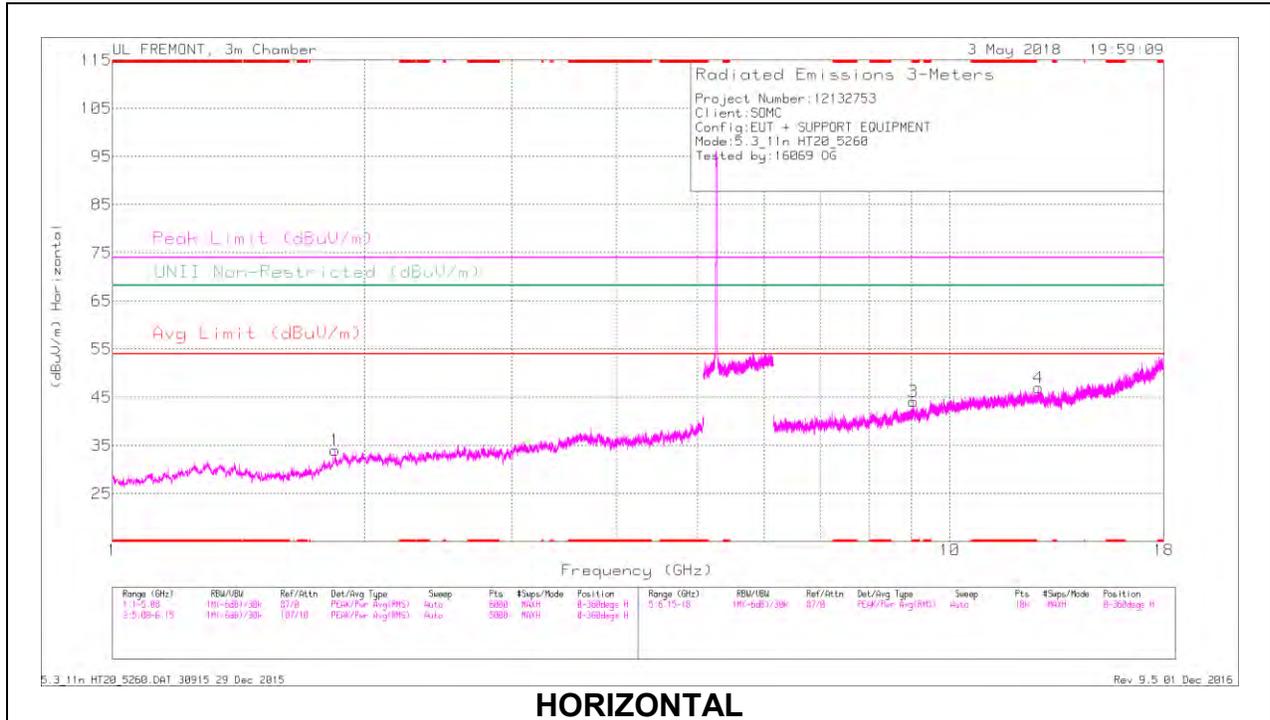


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	36.68	Pk	34.6	-18.2	0	53.08	-	-	74	-20.92	208	344	V
3	* 5.35	26.29	RMS	34.6	-18.2	.1	42.79	54	-11.21	-	-	208	344	V
2	* 5.404	39.76	Pk	34.6	-18.3	0	56.06	-	-	74	-17.94	208	344	V
4	* 5.442	27.61	RMS	34.7	-18.4	.1	44.01	54	-9.99	-	-	208	344	V

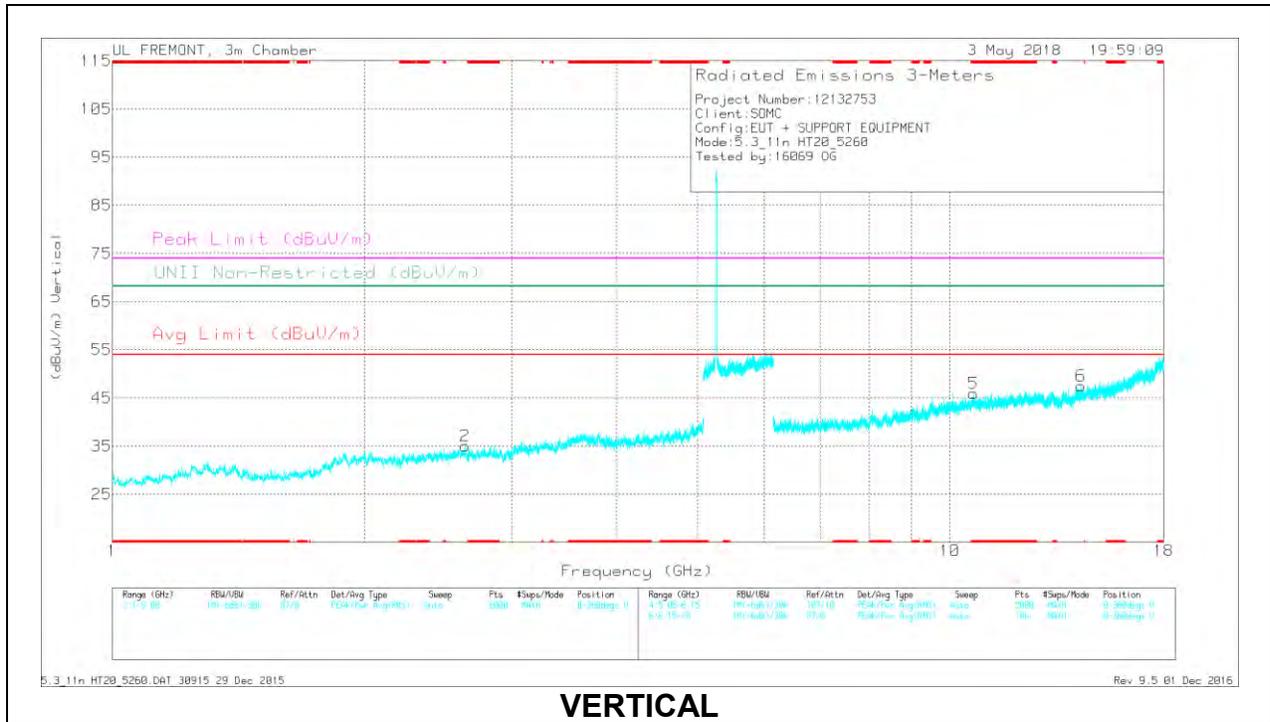
* - indicates frequency in CFR47 Pt 15 Restricted Band
 Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



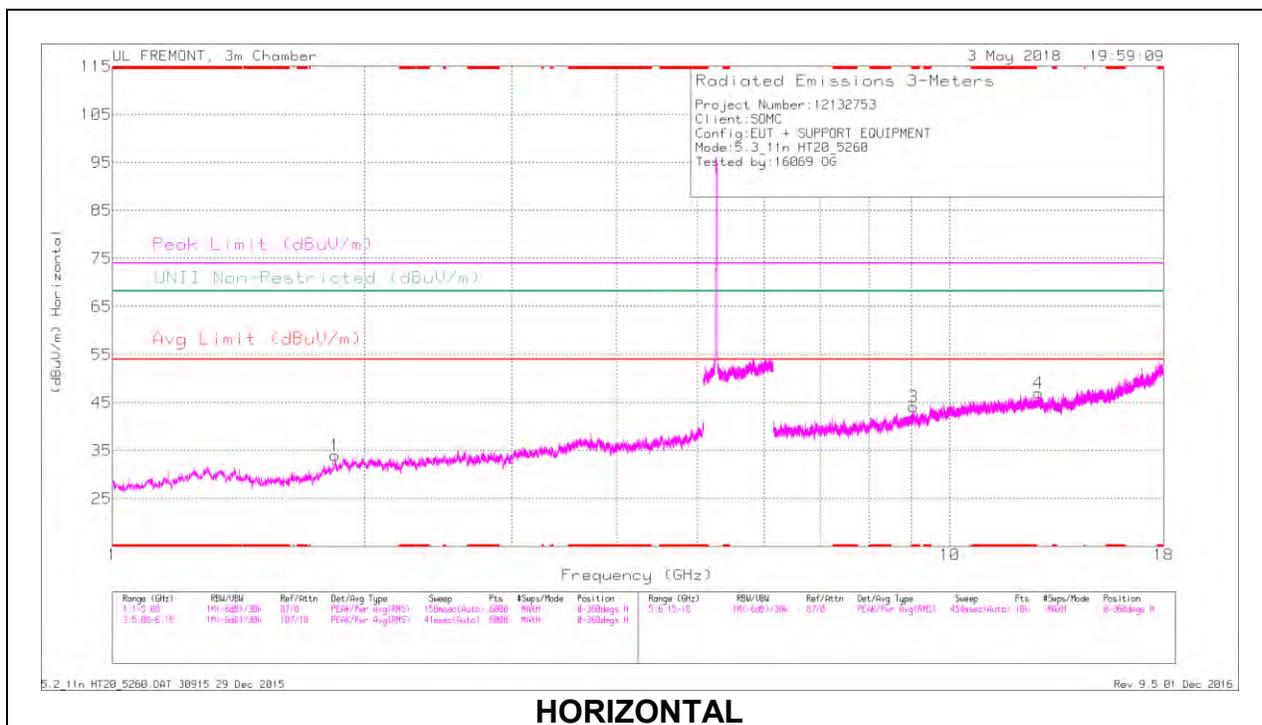
VERTICAL

RADIATED EMISSIONS

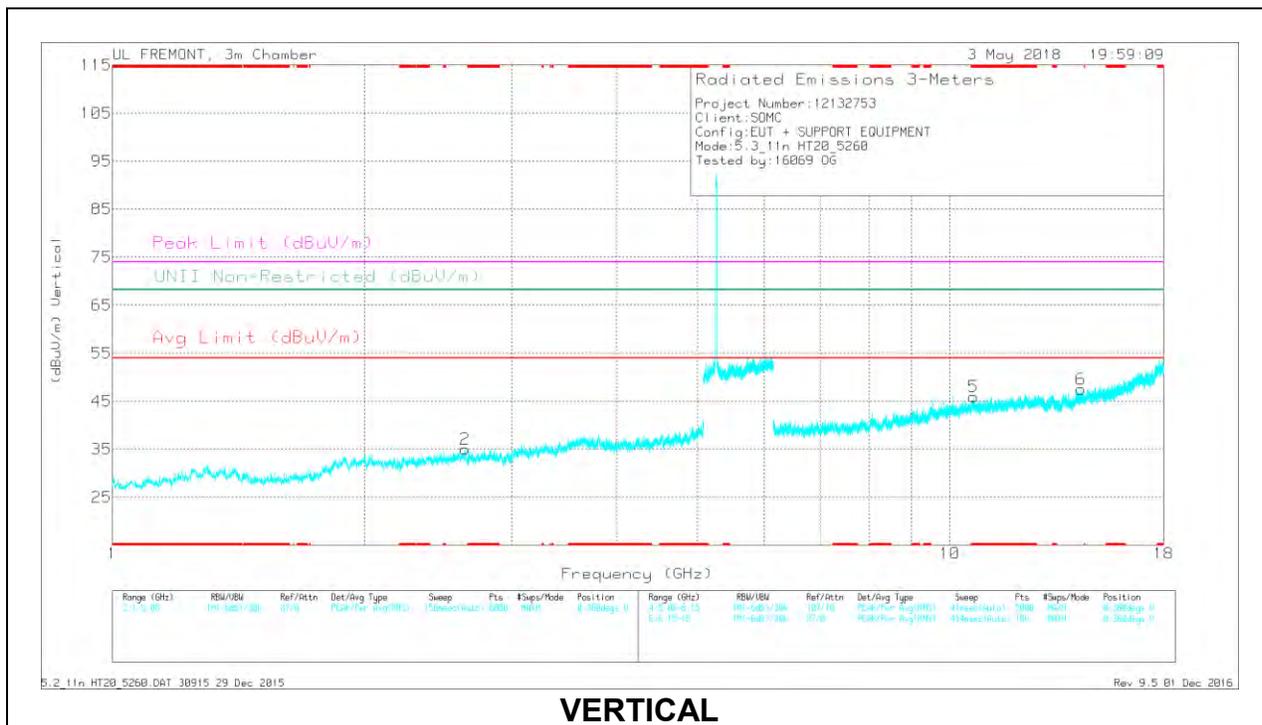
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 9.046	34.13	PK-U	36.1	-20.9	0	49.33	-	-	74	-24.67	-	-	99	229	H
	* 9.048	22.26	ADR	36.1	-20.8	.1	37.66	54	-16.34	-	-	-	-	99	229	H
5	* 10.663	34.95	PK-U	37.8	-20.4	0	52.35	-	-	74	-21.65	-	-	279	134	V
	* 10.663	22.97	ADR	37.8	-20.4	.1	40.47	54	-13.53	-	-	-	-	279	134	V
1	1.844	39.37	PK-U	30.9	-30.3	0	39.97	-	-	-	-	68.2	-28.23	7	219	H
2	2.638	37.54	PK-U	32.6	-28	0	42.14	-	-	-	-	68.2	-26.06	359	340	V
4	12.76	34.1	PK-U	39.2	-21	0	52.3	-	-	-	-	68.2	-15.9	241	198	H
6	14.333	36.65	PK-U	39.5	-21.7	0	54.45	-	-	-	-	68.2	-13.75	356	217	V

* - indicates frequency in CFR47 Pt 15 Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



HORIZONTAL



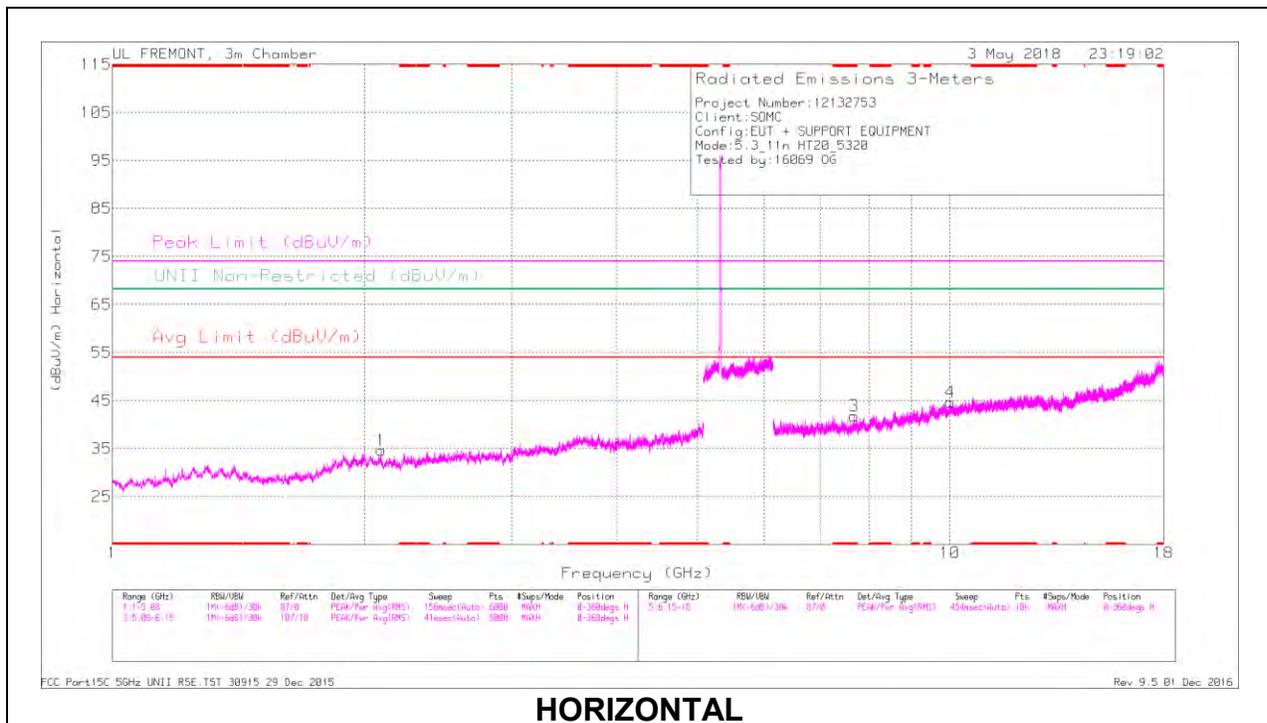
VERTICAL

RADIATED EMISSIONS

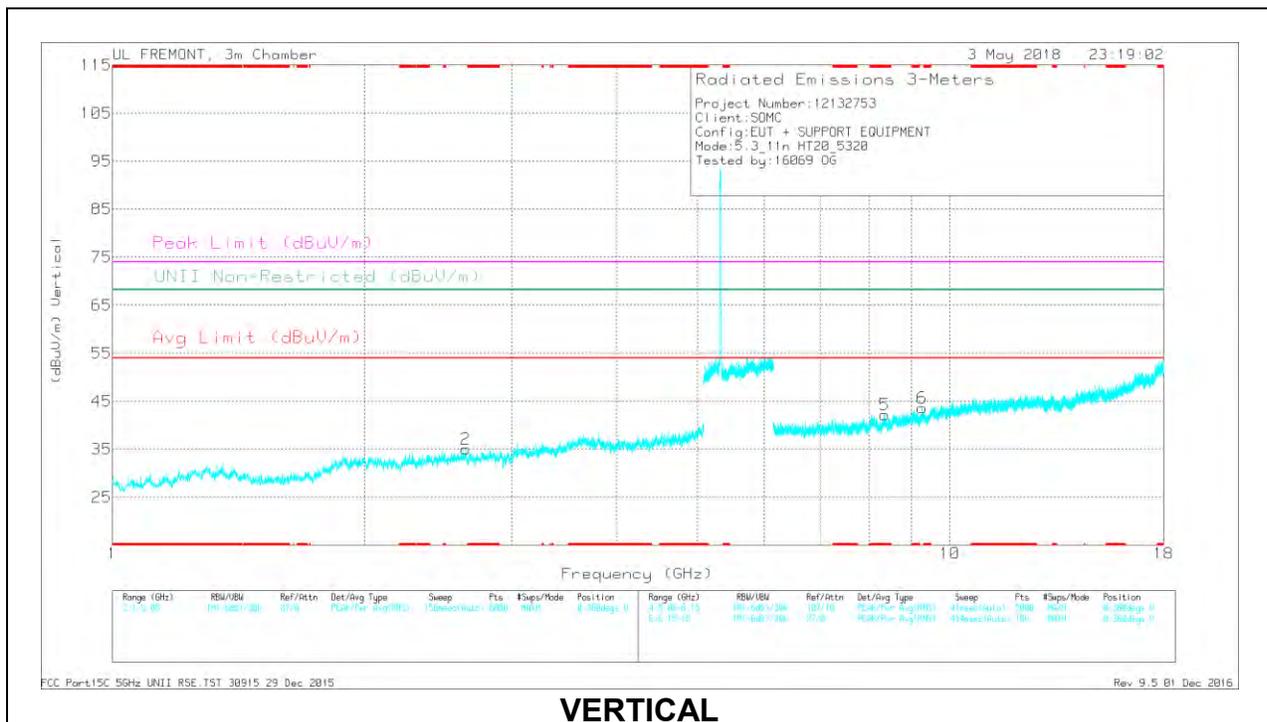
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 9.046	34.13	PK-U	36.1	-20.9	0	49.33	-	-	74	-24.67	-	-	99	229	H
	* 9.048	22.26	ADR	36.1	-20.8	.1	37.66	54	-16.34	-	-	-	-	99	229	H
5	* 10.663	34.95	PK-U	37.8	-20.4	0	52.35	-	-	74	-21.65	-	-	279	134	V
	* 10.663	22.97	ADR	37.8	-20.4	.1	40.47	54	-13.53	-	-	-	-	279	134	V
1	1.844	39.37	PK-U	30.9	-30.3	0	39.97	-	-	-	-	68.2	-28.23	7	219	H
2	2.638	37.54	PK-U	32.6	-28	0	42.14	-	-	-	-	68.2	-26.06	359	340	V
4	12.76	34.1	PK-U	39.2	-21	0	52.3	-	-	-	-	68.2	-15.9	241	198	H
6	14.333	36.65	PK-U	39.5	-21.7	0	54.45	-	-	-	-	68.2	-13.75	356	217	V

* - indicates frequency in CFR47 Pt 15 Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

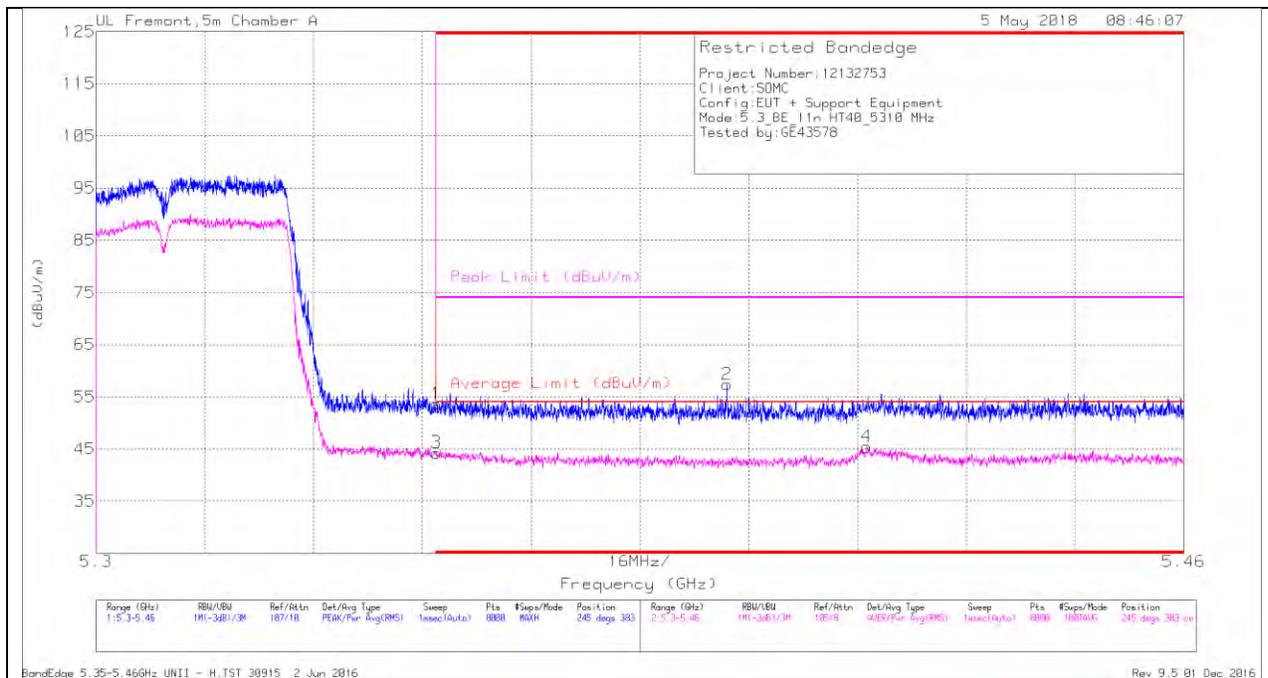
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 7.688	34.89	PK-U	35.8	-23.9	0	46.79	-	-	74	-27.21	-	-	237	150	H
	* 7.685	23.45	ADR	35.8	-24	.1	35.35	54	-18.65	-	-	-	-	237	150	H
5	* 8.352	34.55	PK-U	35.8	-22.3	0	48.05	-	-	74	-25.95	-	-	0	118	V
	* 8.352	23.07	ADR	35.8	-22.3	.1	36.67	54	-17.33	-	-	-	-	0	118	V
1	2.093	38.32	PK-U	31.6	-30.2	0	39.72	-	-	-	-	68.2	-28.48	268	347	H
2	2.642	37.71	PK-U	32.6	-29	0	41.31	-	-	-	-	68.2	-26.89	17	258	V
6	9.269	33.82	PK-U	36.4	-20.9	0	49.32	-	-	-	-	68.2	-18.88	141	100	V
4	10.014	32.97	PK-U	37.3	-20.6	0	49.67	-	-	-	-	68.2	-18.53	62	314	H

* - indicates frequency in CFR47 Pt 15 Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

10.1.7. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.3 GHz BAND

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



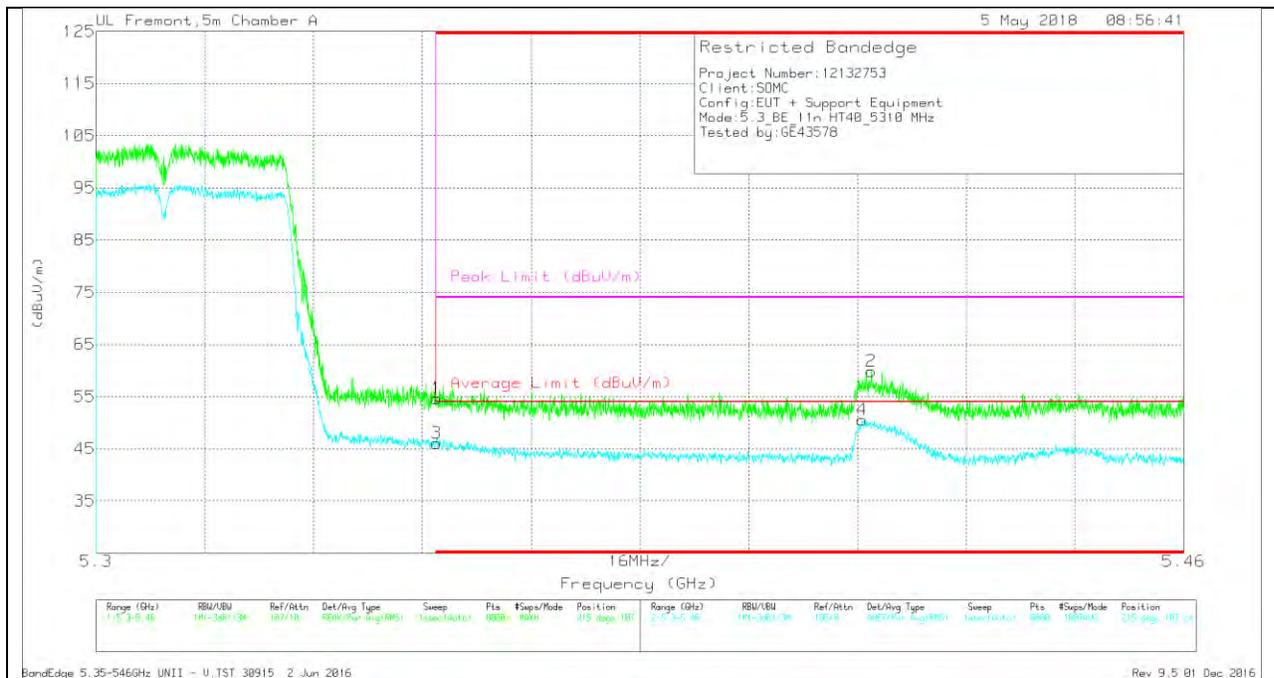
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	37.19	Pk	34.6	-18.2	0	53.59	-	-	74	-20.41	245	383	H
3	* 5.35	27.55	RMS	34.6	-18.2	.32	44.27	54	-9.73	-	-	245	383	H
2	* 5.393	41.03	Pk	34.6	-18.3	0	57.33	-	-	74	-16.67	245	383	H
4	* 5.413	28.77	RMS	34.7	-18.4	.32	45.39	54	-8.61	-	-	245	383	H

* - indicates frequency in CFR47 Pt 15 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

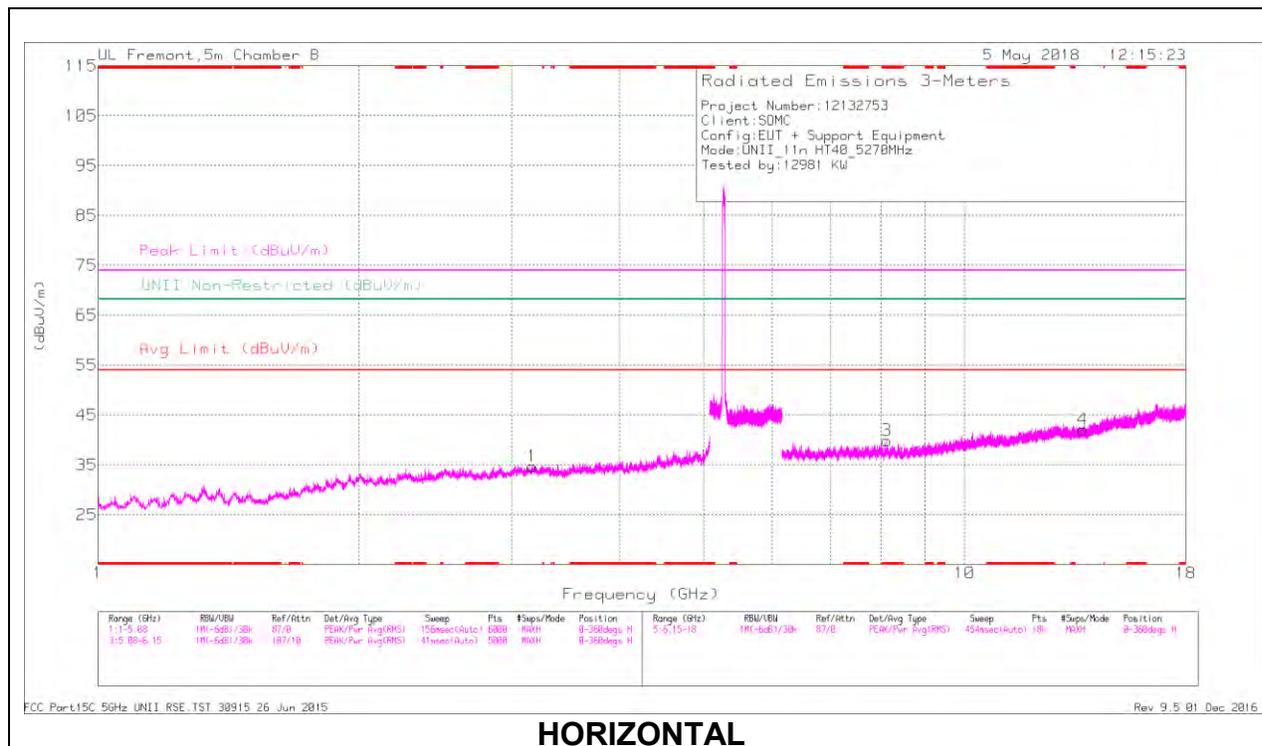


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	38.26	Pk	34.6	-18.2	0	54.66	-	-	74	-19.34	215	107	V
3	* 5.35	29.32	RMS	34.6	-18.2	.32	46.04	54	-7.96	-	-	215	107	V
4	* 5.413	33.92	RMS	34.7	-18.4	.32	50.54	54	-3.46	-	-	215	107	V
2	* 5.414	43.6	Pk	34.7	-18.4	0	59.9	-	-	74	-14.1	215	107	V

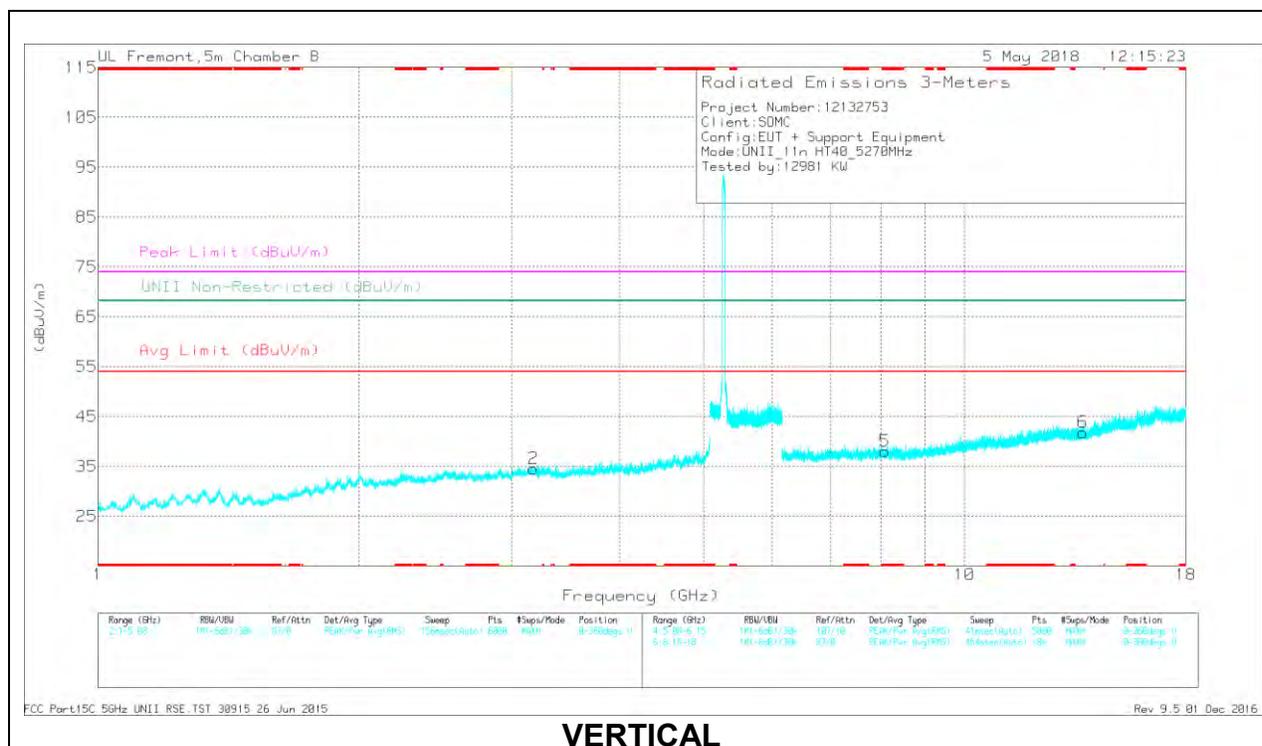
* - indicates frequency in CFR47 Pt 15 Restricted Band
 Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



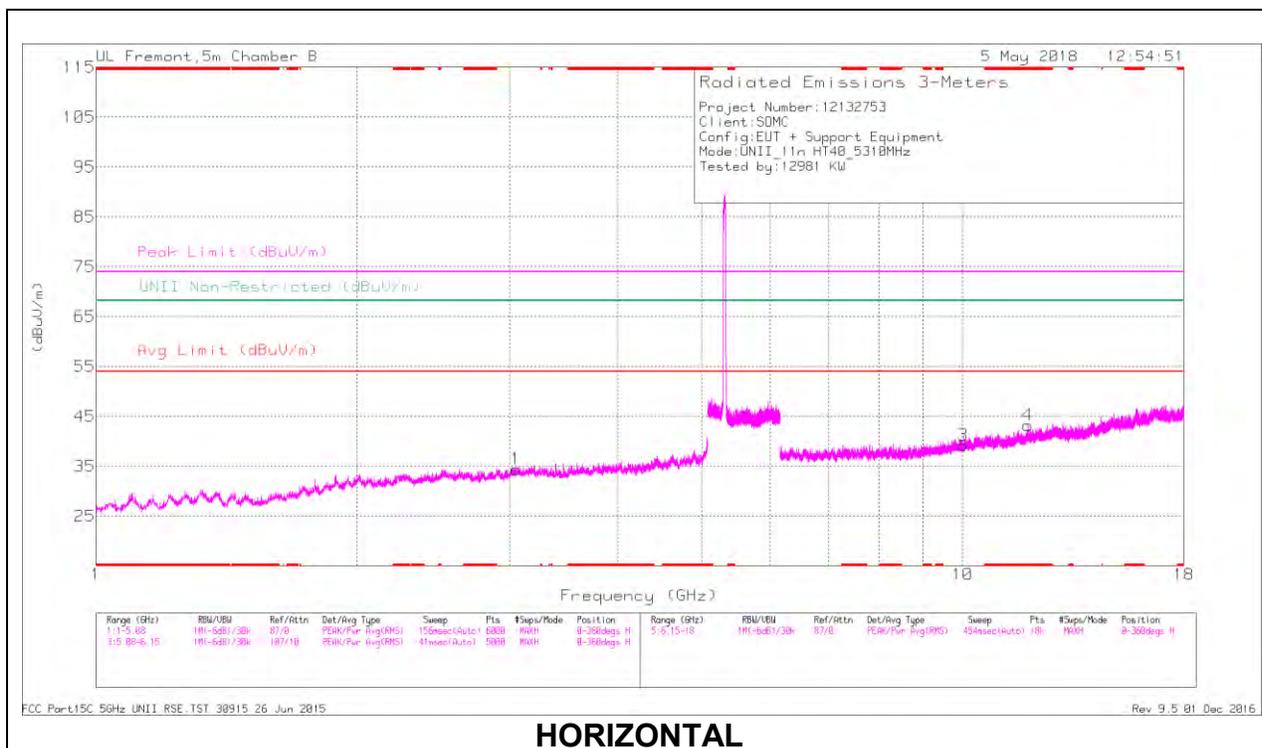
VERTICAL

RADIATED EMISSIONS

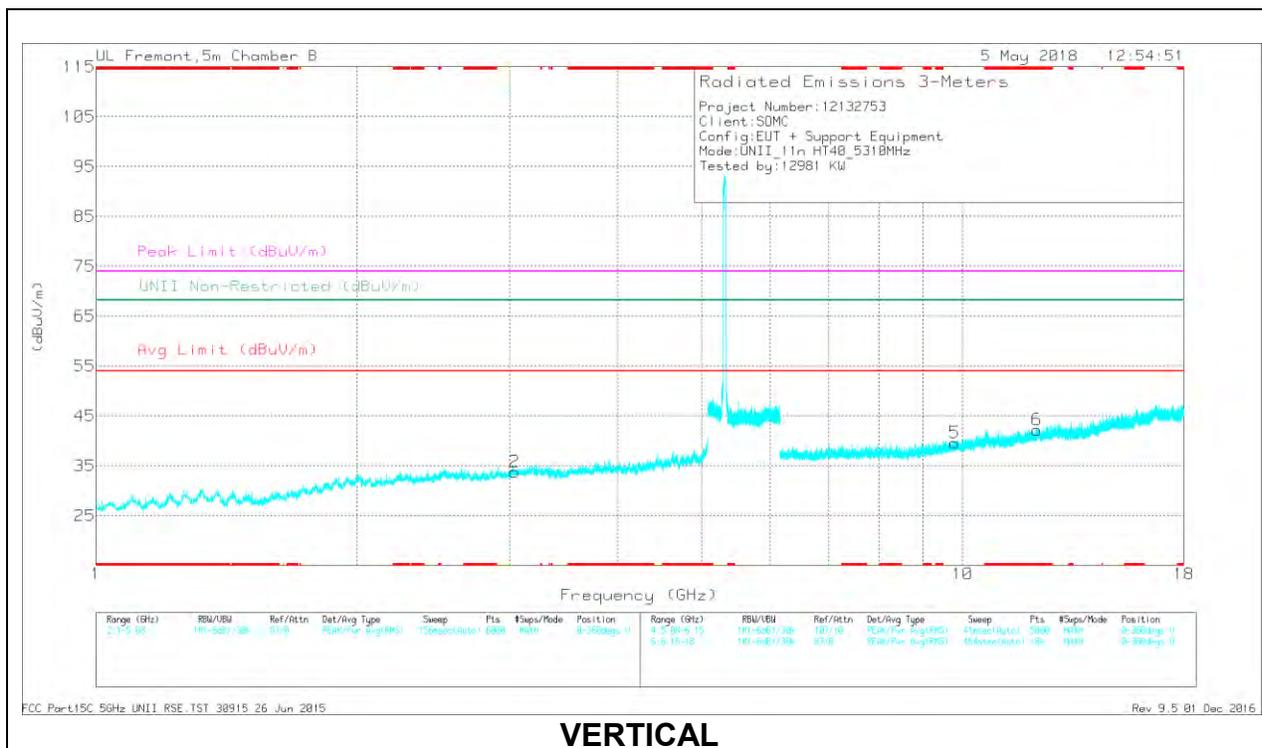
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 8.134	37.38	PK-U	36	-27.9	0	45.48	-	-	74	-28.52	-	-	90	181	H
	* 8.134	25.45	ADR	36	-27.9	.32	33.87	54	-20.13	-	-	-	-	90	181	H
5	* 8.088	37.25	PK-U	36	-27.7	0	45.55	-	-	74	-28.45	-	-	182	172	V
	* 8.088	25.06	ADR	36	-27.7	.32	33.68	54	-20.32	-	-	-	-	182	172	V
1	3.167	40.27	PK-U	33	-31.9	0	41.37	-	-	-	-	68.2	-26.83	64	161	H
2	3.18	40.55	PK-U	33	-31.6	0	41.95	-	-	-	-	68.2	-26.25	68	115	V
6	13.687	33.46	PK-U	39.1	-23.6	0	48.96	-	-	-	-	68.2	-19.24	79	189	H
4	13.689	33.3	PK-U	39.1	-23.6	0	48.8	-	-	-	-	68.2	-19.4	169	134	V

* - indicates frequency in CFR47 Pt 15 Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

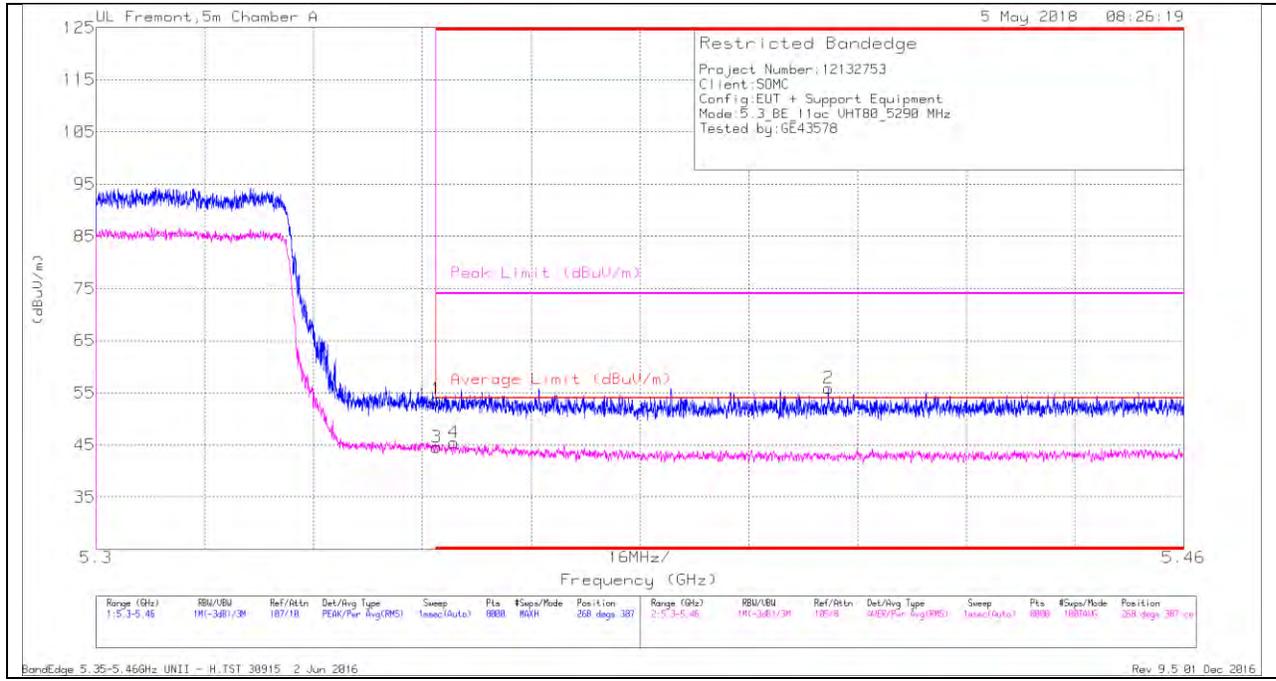
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 11.892	34.17	PK-U	38.7	-24.2	0	48.67	-	-	74	-25.33	-	-	88	189	H
	* 11.889	21.92	ADR	38.7	-24.2	.32	36.74	54	-17.26	-	-	-	-	88	189	H
6	* 12.179	33.5	PK-U	39.1	-24	0	48.6	-	-	74	-25.4	-	-	132	144	V
	* 12.179	21.86	ADR	39.1	-24	.32	37.28	54	-16.72	-	-	-	-	132	144	V
2	3.038	39.8	PK-U	32.9	-32.1	0	40.6	-	-	-	-	68.2	-27.6	78	149	V
1	3.049	39.91	PK-U	33	-32.1	0	40.81	-	-	-	-	68.2	-27.39	94	132	H
5	9.795	34.98	PK-U	36.9	-25.3	0	46.58	-	-	-	-	68.2	-21.62	165	181	V
3	10.01	34.76	PK-U	37.2	-25.8	0	46.16	-	-	-	-	68.2	-22.04	39	173	H

* - indicates frequency in CFR47 Pt 15 Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

10.1.8. TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.3 GHz BAND

BANDEDGE (MID CHANNEL)

HORIZONTAL RESULT



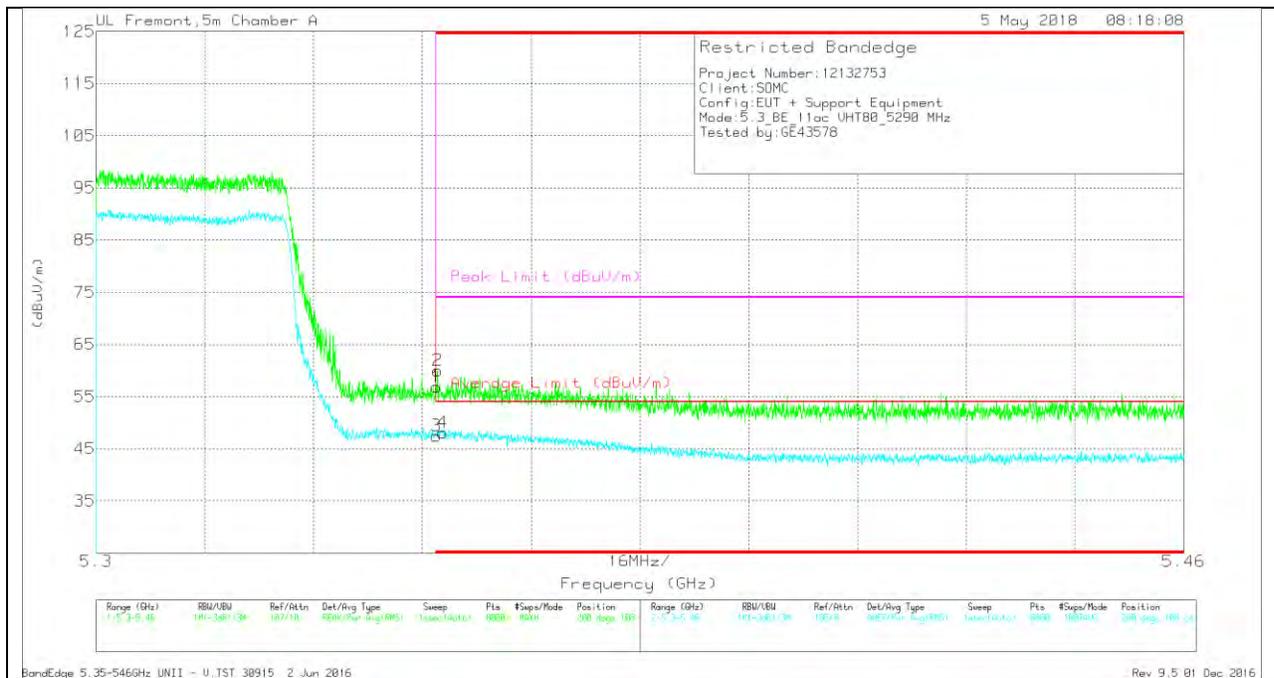
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	37.35	Pk	34.6	-18.2	0	53.75	-	-	74	-20.25	268	387	H
3	* 5.35	27.57	RMS	34.6	-18.2	.62	44.59	54	-9.41	-	-	268	387	H
4	* 5.353	28.47	RMS	34.6	-18.2	.62	45.49	54	-8.51	-	-	268	387	H
2	* 5.408	39.53	Pk	34.7	-18.4	0	55.83	-	-	74	-18.17	268	387	H

* - indicates frequency in CFR47 Pt 15 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

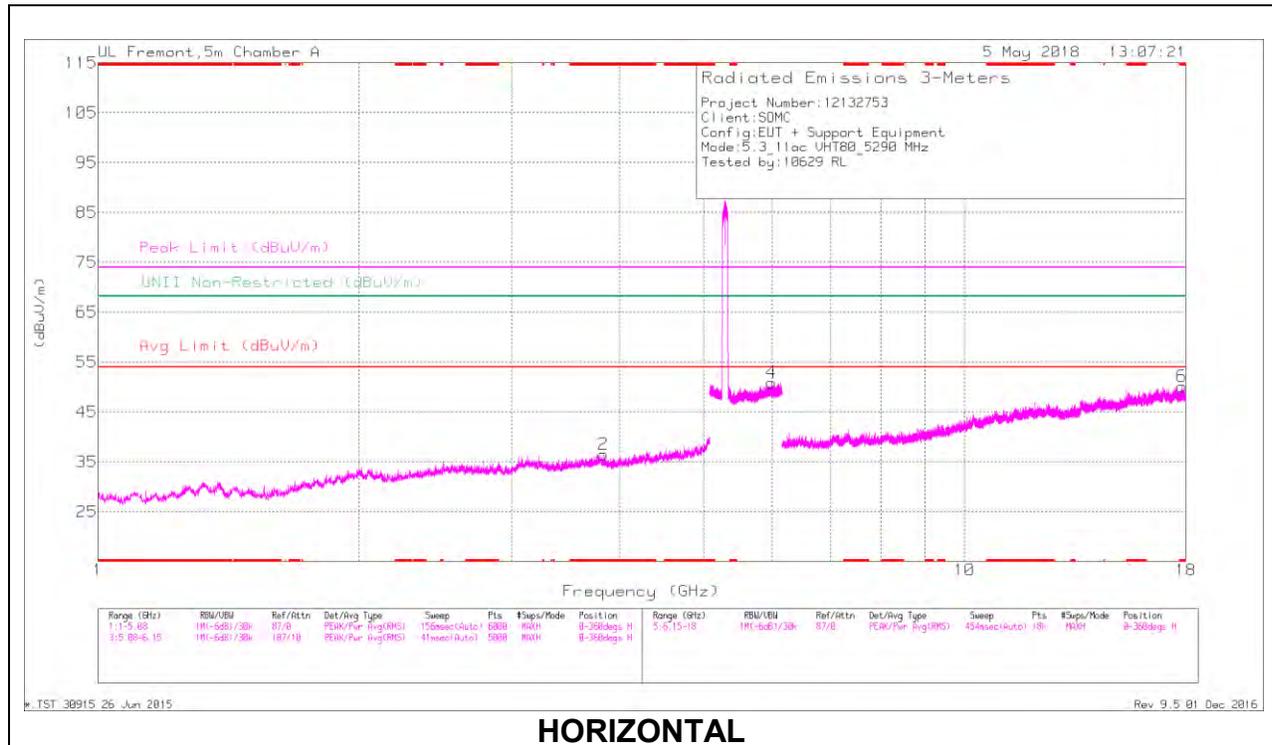


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	40.48	Pk	34.6	-18.2	0	56.88	-	-	74	-17.12	200	108	V
2	* 5.35	43.6	Pk	34.6	-18.2	0	60	-	-	74	-14	200	108	V
3	* 5.35	31.01	RMS	34.6	-18.2	.62	48.03	54	-5.97	-	-	200	108	V
4	* 5.351	31.68	RMS	34.6	-18.2	.62	48.7	54	-5.3	-	-	200	108	V

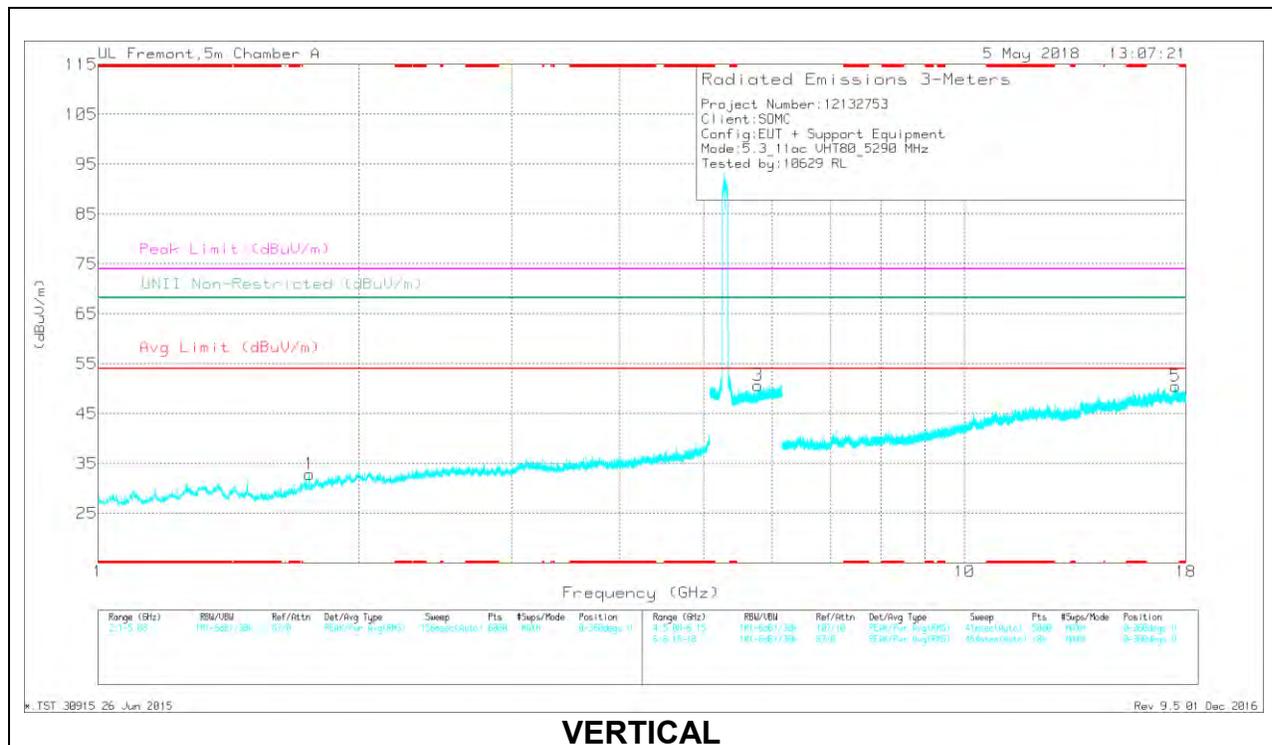
* - indicates frequency in CFR47 Pt 15 Restricted Band
 Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

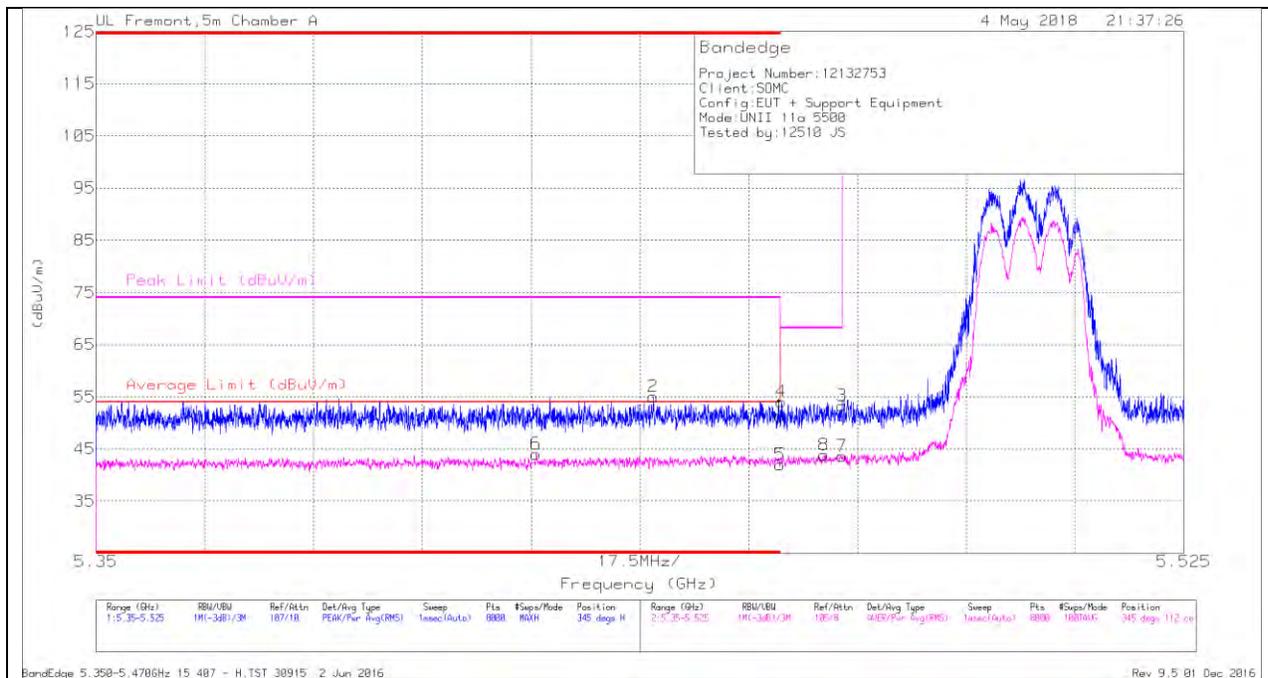
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 3.828	37.31	PK-U	33.1	-28.3	0	42.11	-	-	74	-31.89	-	-	135	273	H
	* 3.826	25.89	ADR	33.1	-28.3	.62	31.31	54	-22.69	-	-	-	-	135	273	H
6	* 17.801	32.86	PK-U	41.2	-18.3	0	55.76	-	-	74	-18.24	-	-	254	194	H
	* 17.799	21.98	ADR	41.2	-18.4	.62	45.4	54	-8.6	-	-	-	-	254	194	H
1	1.753	33.85	Pk	29.8	-30.8	0	32.85	-	-	-	-	68.2	-35.35	0-360	200	V
3	5.771	33.96	Pk	35	-18.3	0	50.66	-	-	-	-	68.2	-17.54	0-360	101	V
4	5.986	33.58	Pk	35.3	-18	0	50.88	-	-	-	-	68.2	-17.32	0-360	199	H
5	17.504	28.19	Pk	41.2	-18.9	0	50.49	-	-	-	-	68.2	-17.71	0-360	200	V

* - indicates frequency in CFR47 Pt 15 Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

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

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



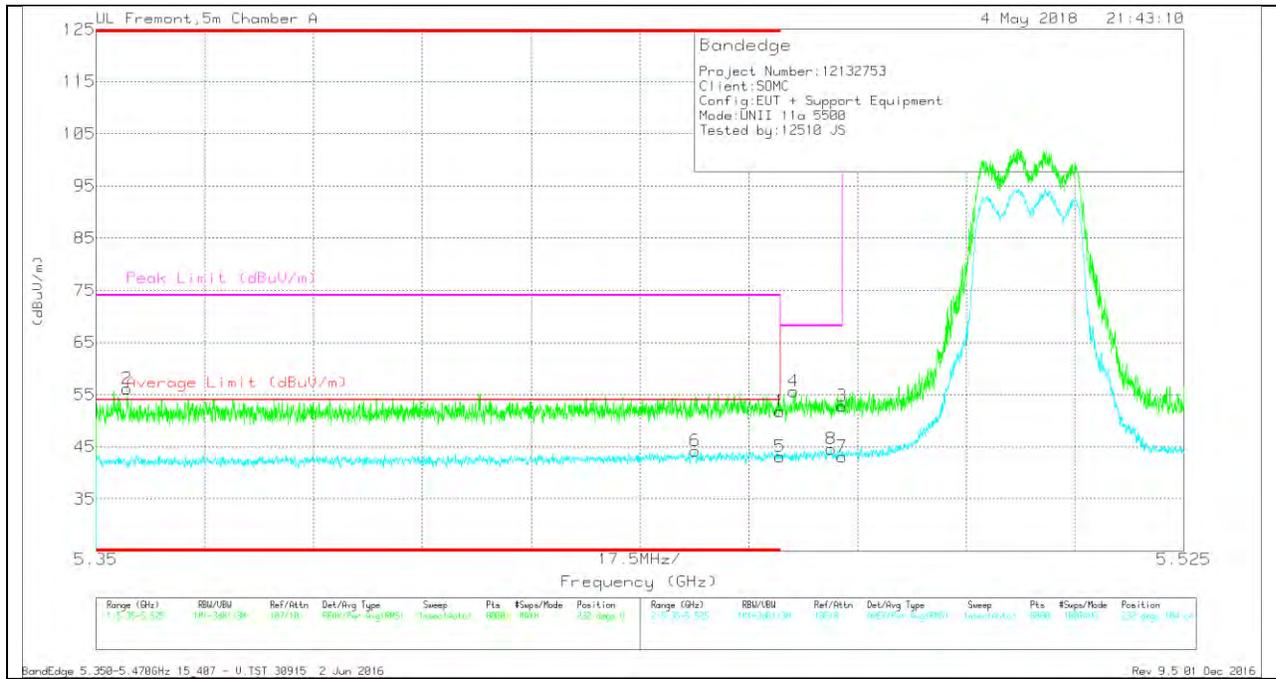
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* 5.421	27.72	RMS	34.7	-18.4	0	44.02	54	-9.98	-	-	345	112	H
2	* 5.44	38.56	Pk	34.7	-18.3	0	54.96	-	-	74	-19.04	345	112	H
1	* 5.46	35.13	Pk	34.7	-18.5	0	51.33	-	-	74	-22.67	345	112	H
5	* 5.46	25.79	RMS	34.7	-18.5	0	41.99	54	-12.01	-	-	345	112	H
4	5.46	37.79	Pk	34.7	-18.5	0	53.99	-	-	68.2	-14.21	345	112	H
8	5.467	27.36	RMS	34.8	-18.3	0	43.86	-	-	-	-	345	112	H
3	5.47	36.77	Pk	34.8	-18.3	0	53.27	-	-	68.2	-14.93	345	112	H
7	5.47	27.05	RMS	34.8	-18.3	0	43.55	-	-	-	-	345	112	H

* - indicates frequency in CFR47 Pt 15 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

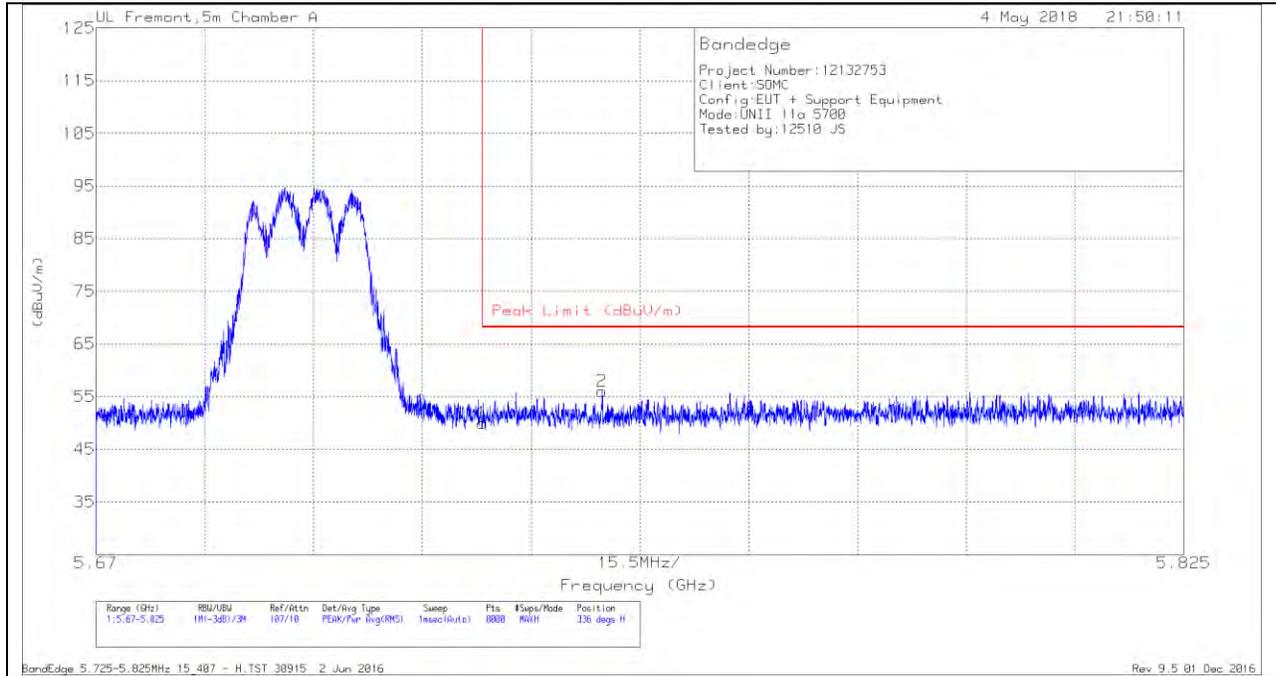


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.355	39.68	Pk	34.6	-18.2	0	56.08	-	-	74	-17.92	232	104	V
6	* 5.446	27.88	RMS	34.7	-18.4	0	44.18	54	-9.82	-	-	232	104	V
1	* 5.46	35.56	Pk	34.7	-18.5	0	51.76	-	-	74	-22.24	232	104	V
5	* 5.46	26.94	RMS	34.7	-18.5	0	43.14	54	-10.86	-	-	232	104	V
4	5.462	39.45	Pk	34.7	-18.5	0	55.65	-	-	68.2	-12.55	232	104	V
8	5.468	28.07	RMS	34.8	-18.3	0	44.57	-	-	-	-	232	104	V
3	5.47	36.31	Pk	34.8	-18.3	0	52.81	-	-	68.2	-15.39	232	104	V
7	5.47	26.56	RMS	34.8	-18.3	0	43.06	-	-	-	-	232	104	V

* - indicates frequency in CFR47 Pt 15 Restricted Band
 Pk - Peak detector
 RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

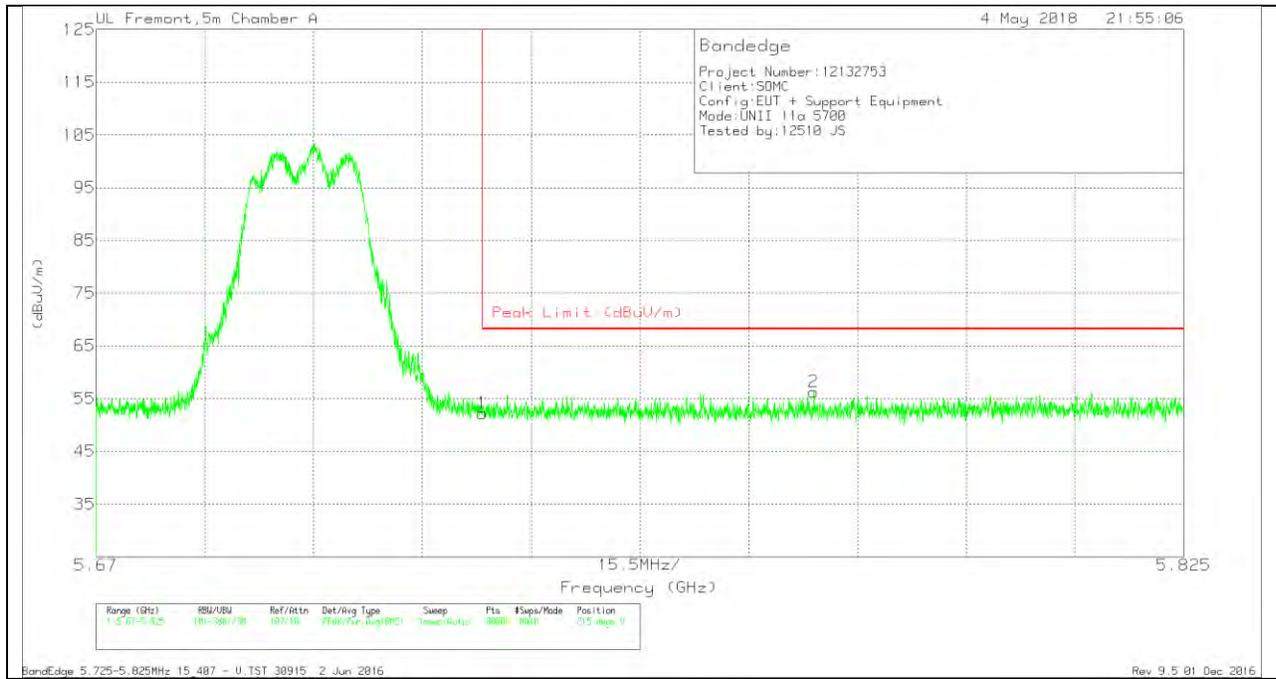
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT862 (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	33.51	Pk	35	-18.5	0	50.01	68.2	-18.19	336	101	H
2	5.742	39.38	Pk	35	-18.4	0	55.98	68.2	-12.22	336	101	H

* - indicates frequency in CFR47 Pt 15 Restricted Band
 Pk - Peak detector

VERTICAL RESULT

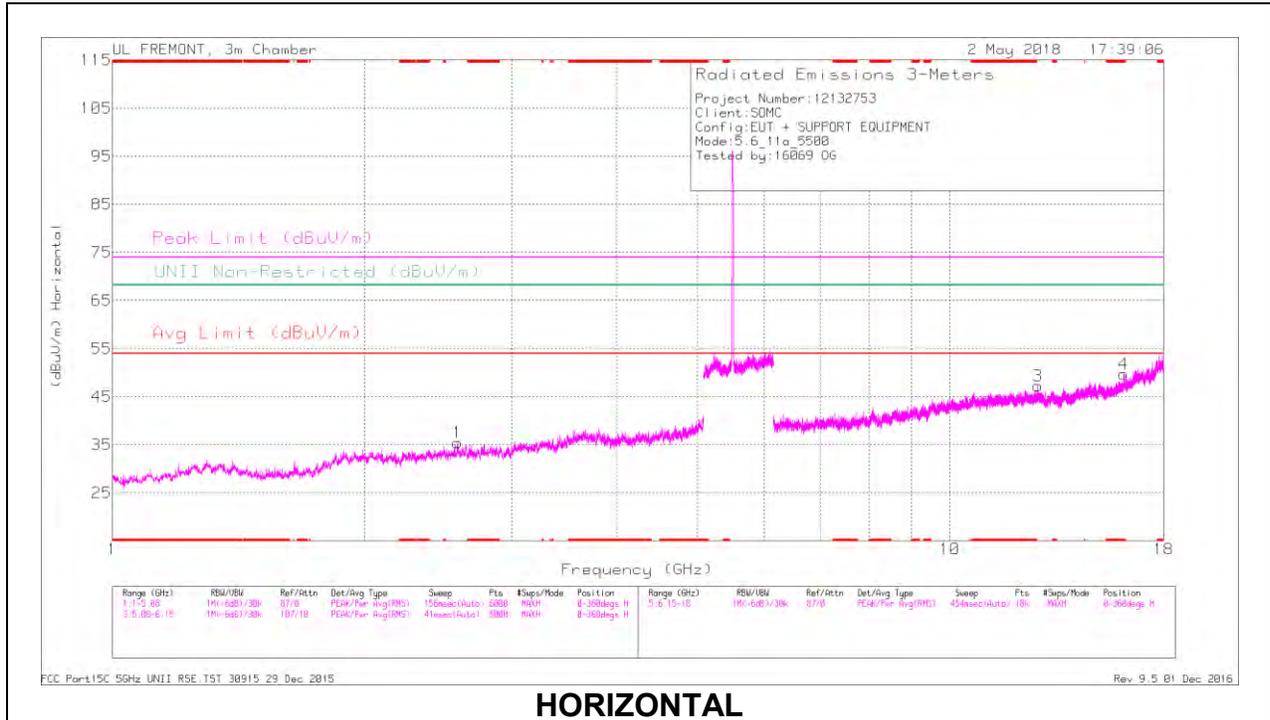


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	35.75	Pk	35	-18.5	0	52.25	68.2	-15.95	215	104	V
2	5.772	39.45	Pk	35	-18.2	0	56.25	68.2	-11.95	215	104	V

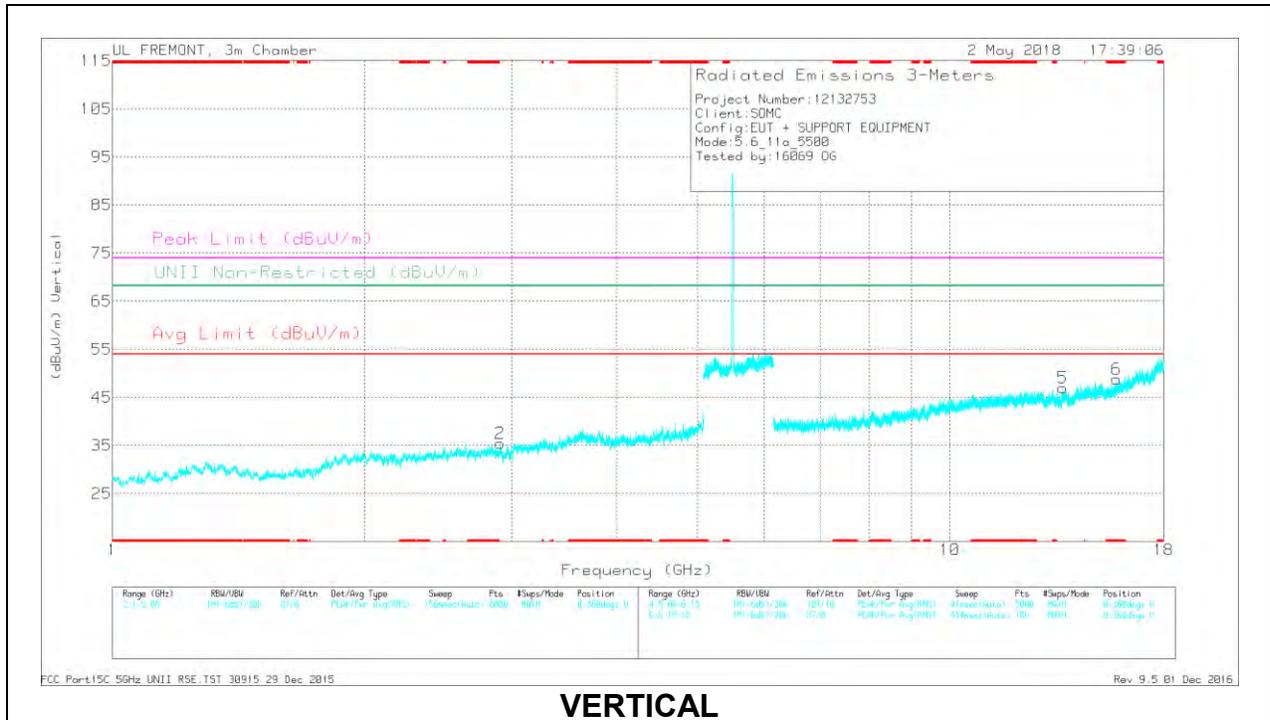
* - indicates frequency in CFR47 Pt 15 Restricted Band
 Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



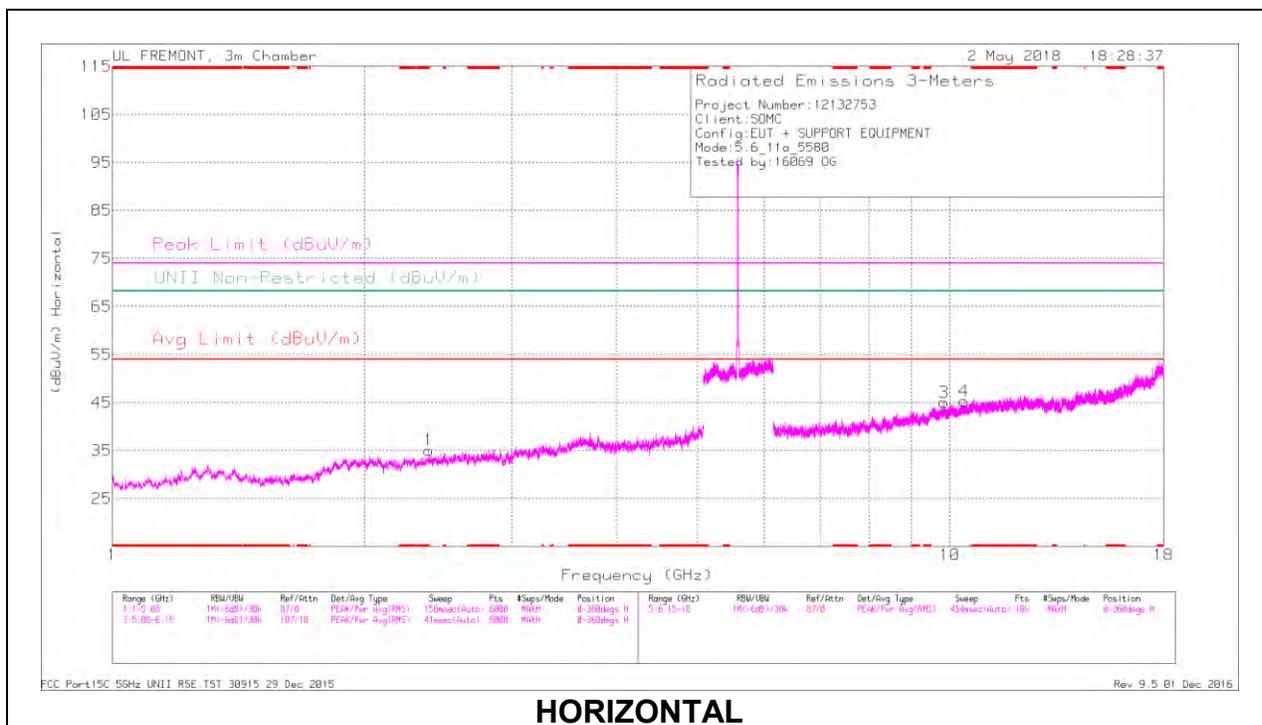
VERTICAL

RADIATED EMISSIONS

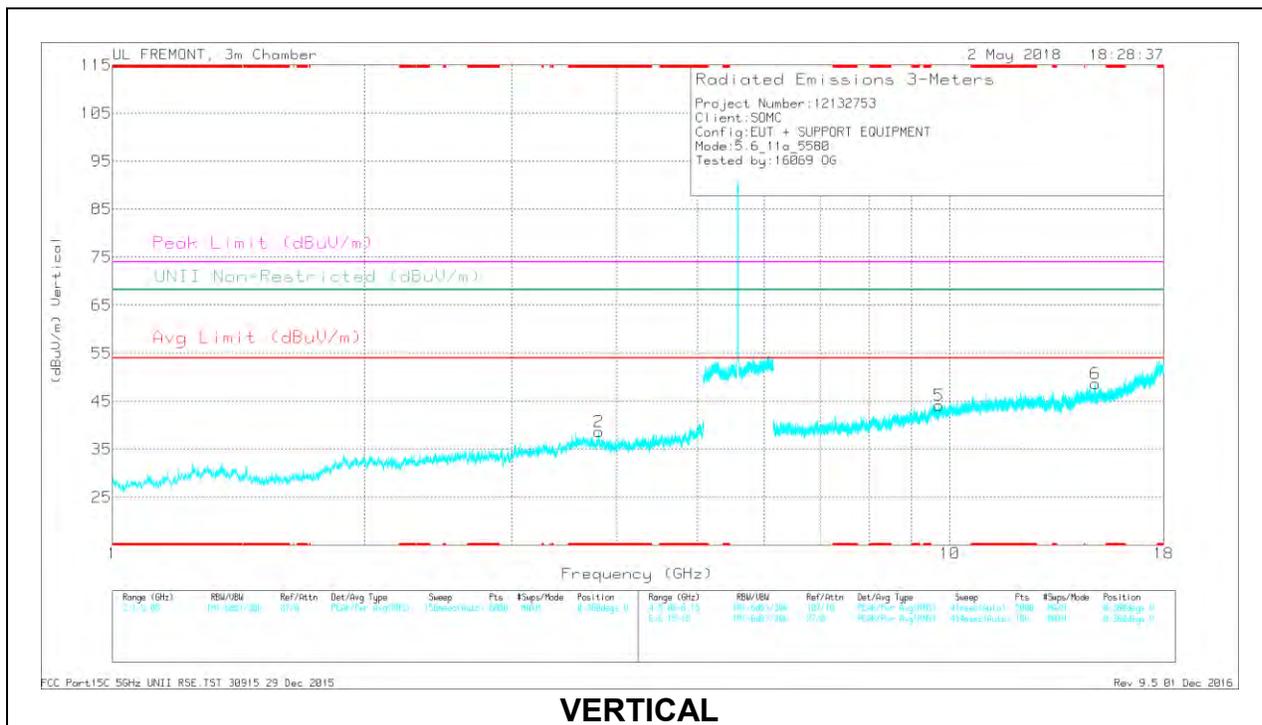
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 16.12	34.11	PK-U	40.5	-19	0	55.61	-	-	74	-18.39	-	-	188	100	H
	* 16.12	21.83	ADR	40.5	-19	0	43.33	54	-10.67	-	-	-	-	188	100	H
6	* 15.823	33.1	PK-U	40.5	-20.5	0	53.1	-	-	74	-20.9	-	-	20	119	V
	* 15.826	22.38	ADR	40.5	-20.5	0	42.38	54	-11.62	-	-	-	-	20	119	V
1	2.582	38.76	PK-U	32.4	-30	0	41.16	-	-	-	-	68.2	-27.04	57	256	H
2	2.902	38.31	PK-U	32.8	-29.6	0	41.51	-	-	-	-	68.2	-26.69	172	137	V
3	12.732	34.74	PK-U	39.2	-21.7	0	52.24	-	-	-	-	68.2	-15.96	218	306	H
5	13.633	35.62	PK-U	38.7	-22.5	0	51.82	-	-	-	-	68.2	-16.38	213	325	V

* - indicates frequency in CFR47 Pt 15 Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



HORIZONTAL



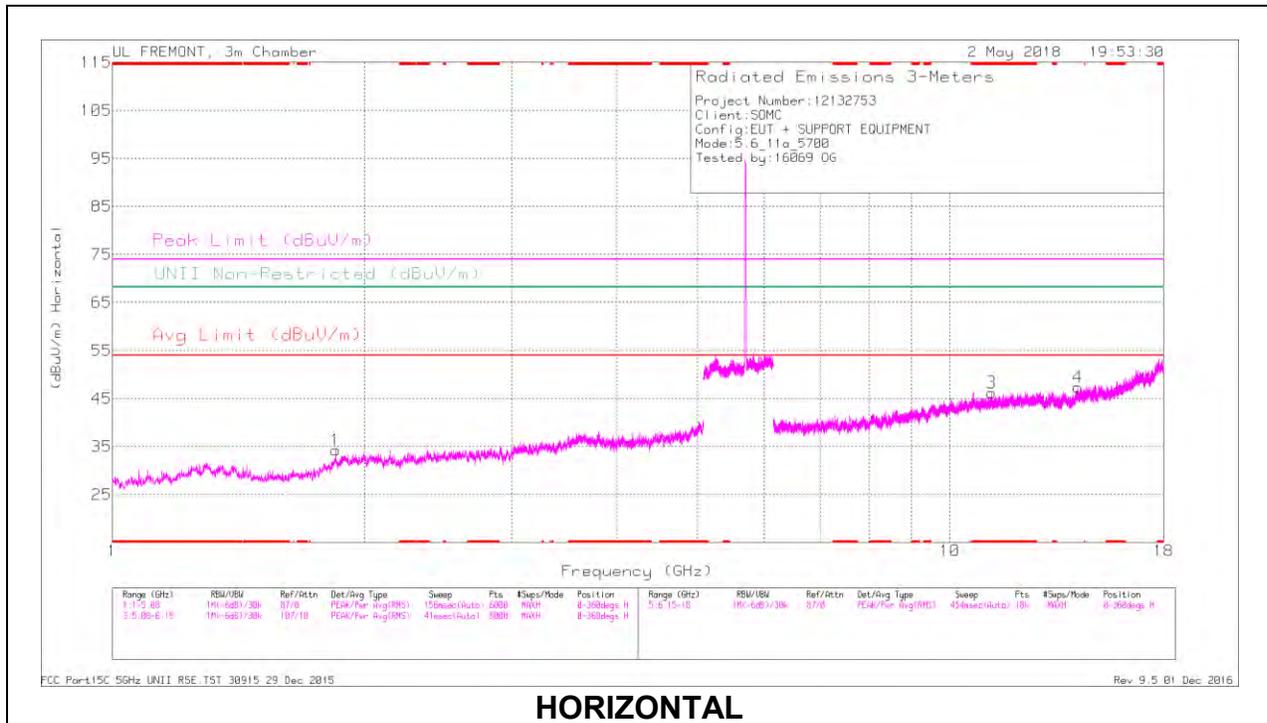
VERTICAL

RADIATED EMISSIONS

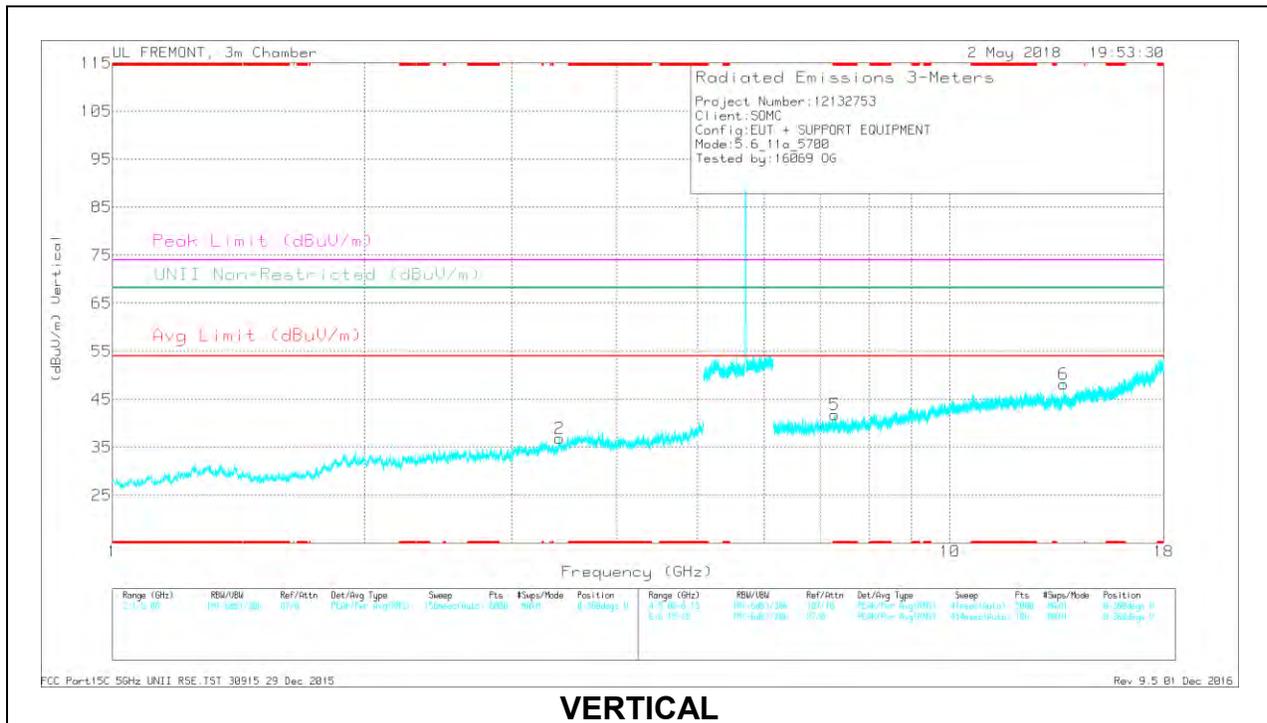
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.386	38.78	PK-U	31.9	-30	0	40.68	-	-	74	-33.32	-	-	135	297	H
	* 2.389	26.71	ADR	31.9	-30	0	28.61	54	-25.39	-	-	-	-	135	297	H
2	* 3.811	38.68	PK-U	33.7	-27.4	0	44.98	-	-	74	-29.02	-	-	142	287	V
	* 3.812	27.3	ADR	33.7	-27.5	0	33.5	54	-20.5	-	-	-	-	142	287	V
5	9.706	33.86	PK-U	37	-21.1	0	49.76	-	-	-	-	68.2	-18.44	312	389	V
3	9.84	34.02	PK-U	37.2	-20.6	0	50.62	-	-	-	-	68.2	-17.58	265	324	H
4	10.396	34.6	PK-U	37.6	-21.6	0	50.6	-	-	-	-	68.2	-17.6	261	102	H
6	14.916	34.94	PK-U	40	-21.4	0	53.54	-	-	-	-	68.2	-14.66	356	384	V

* - indicates frequency in CFR47 Pt 15 Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



HORIZONTAL



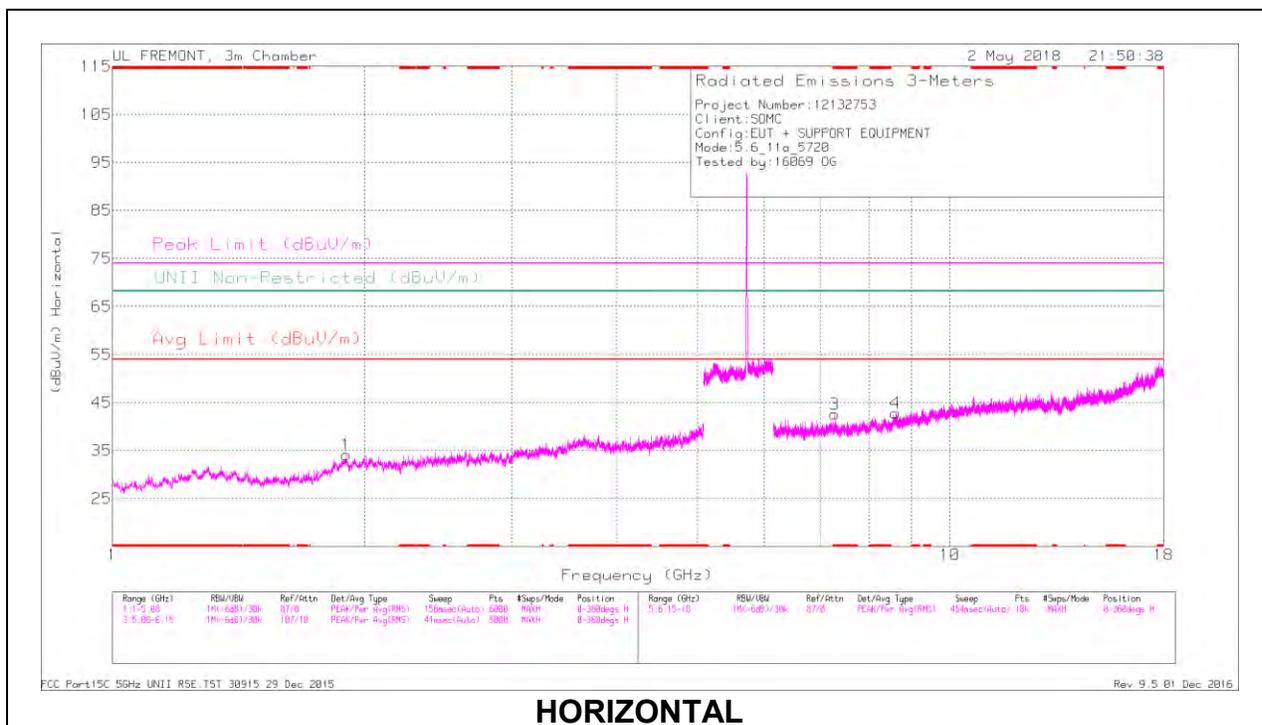
VERTICAL

RADIATED EMISSIONS

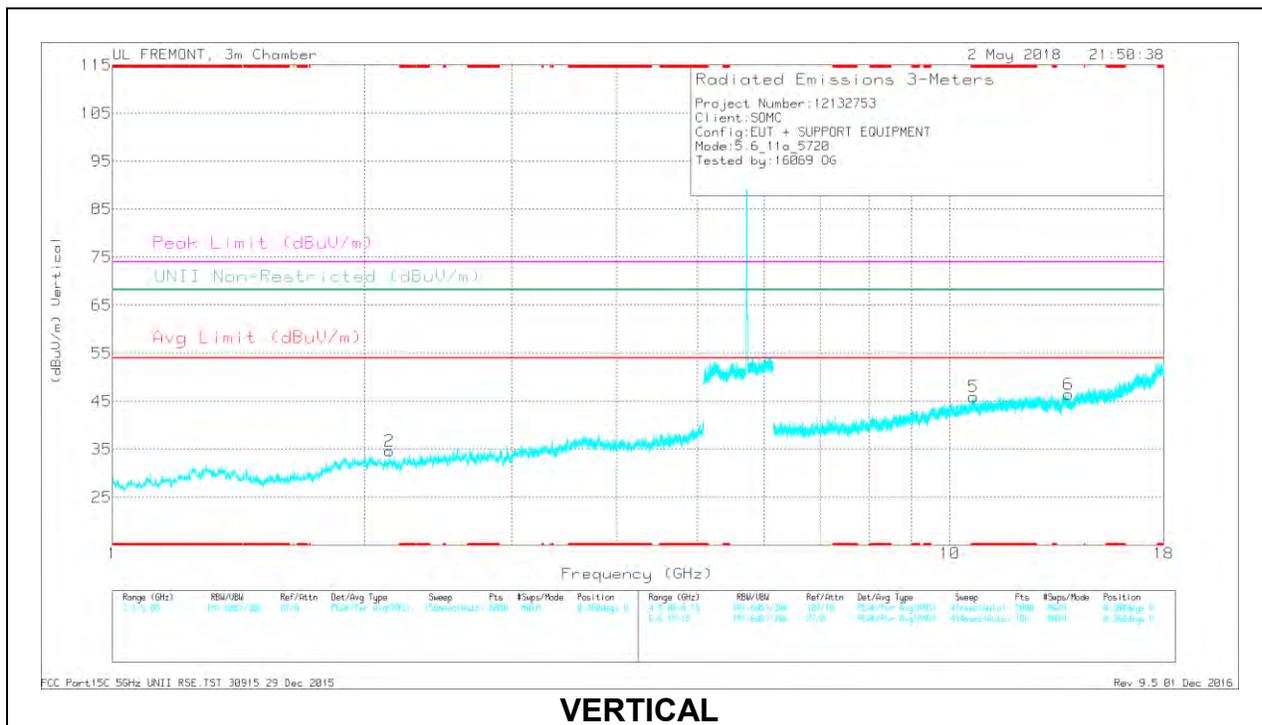
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 11.223	33.99	PK-U	38.2	-21.2	0	50.99	-	-	74	-23.01	-	-	182	181	H
	* 11.221	22.9	ADR	38.2	-21.1	0	40	54	-14	-	-	-	-	182	181	H
5	* 7.282	35.08	PK-U	35.7	-22.6	0	48.18	-	-	74	-25.82	-	-	234	368	V
	* 7.286	23.5	ADR	35.7	-22.8	0	36.4	54	-17.6	-	-	-	-	234	368	V
1	1.847	39.56	PK-U	30.9	-30.4	0	40.06	-	-	-	-	68.2	-28.14	45	230	H
2	3.419	37.92	PK-U	33.8	-28.3	0	43.42	-	-	-	-	68.2	-24.78	271	321	V
6	13.666	35.16	PK-U	38.7	-20.9	0	52.96	-	-	-	-	68.2	-15.24	239	348	V
4	14.213	35.66	PK-U	39.4	-21.5	0	53.56	-	-	-	-	68.2	-14.64	13	292	H

* - indicates frequency in CFR47 Pt 15 Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

CHANNEL 144 RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

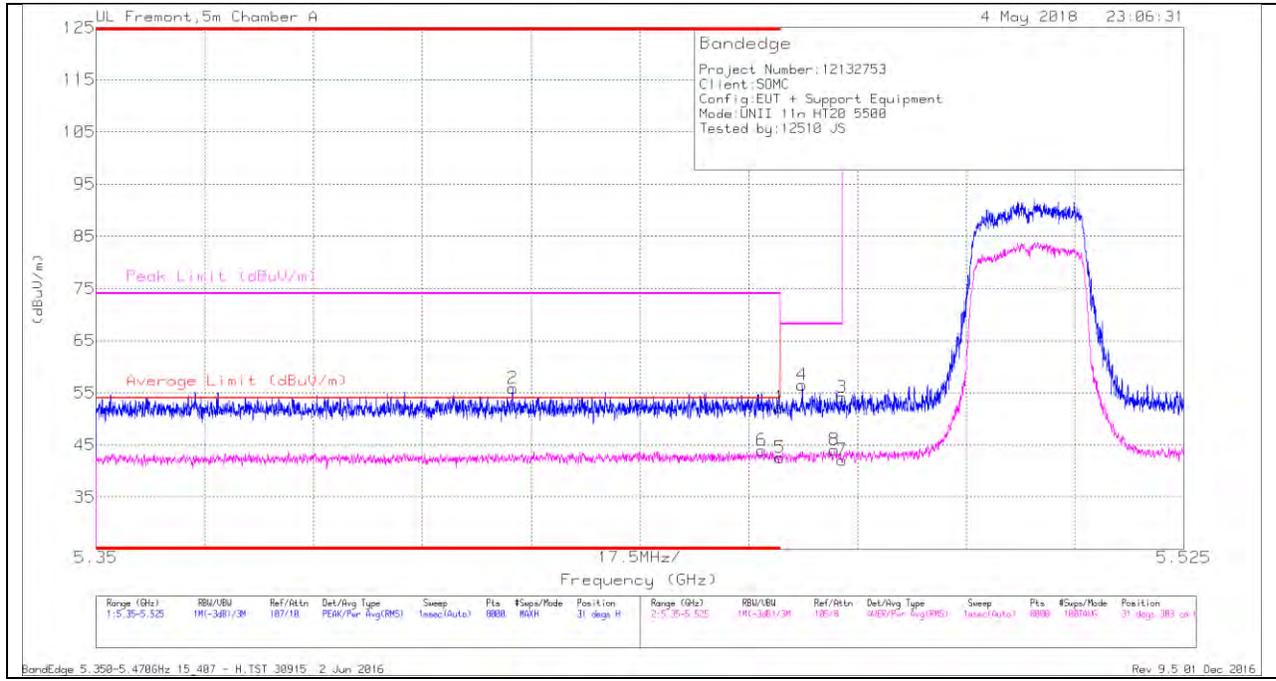
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 7.286	35.5	PK-U	35.7	-22.9	0	48.3	-	-	74	-25.7	-	-	104	382	H
	* 7.287	23.98	ADR	35.7	-23.4	0	36.28	54	-17.72	-	-	-	-	104	382	H
5	* 10.666	34.75	PK-U	37.8	-20.6	0	51.95	-	-	74	-22.05	-	-	346	322	V
	* 10.665	23.16	ADR	37.8	-20.5	0	40.46	54	-13.54	-	-	-	-	346	322	V
1	1.902	39.28	PK-U	31.4	-30.2	0	40.48	-	-	-	-	68.2	-27.72	215	337	H
2	2.143	39.35	PK-U	31.4	-30	0	40.75	-	-	-	-	68.2	-27.45	206	244	V
4	8.615	34.03	PK-U	35.8	-21.6	0	48.23	-	-	-	-	68.2	-19.97	295	388	H
6	13.853	35.9	PK-U	38.9	-21.8	0	53	-	-	-	-	68.2	-15.2	336	100	V

* - indicates frequency in CFR47 Pt 15 Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

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

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



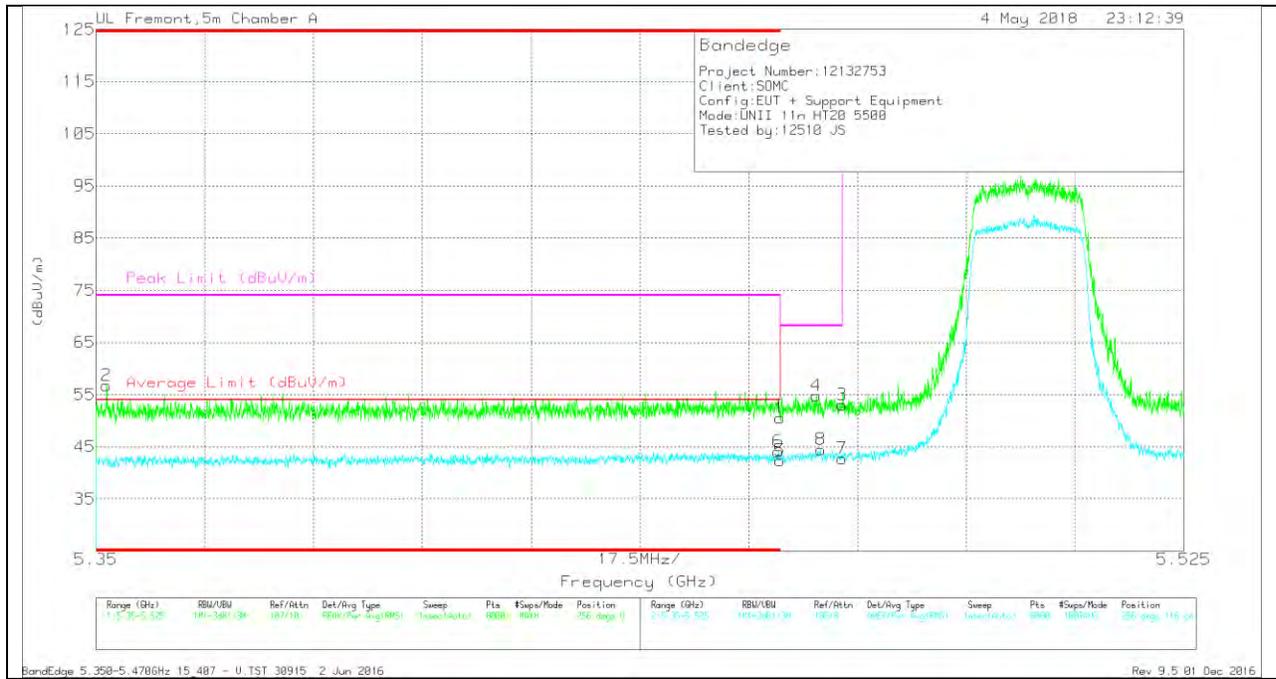
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.417	39.54	Pk	34.7	-18.4	0	55.84	-	-	74	-18.16	31	303	H
6	* 5.457	27.65	RMS	34.7	-18.5	.1	43.95	54	-10.05	-	-	31	303	H
1	* 5.46	36.02	Pk	34.7	-18.5	0	52.22	-	-	74	-21.78	31	303	H
5	* 5.46	26.28	RMS	34.7	-18.5	.1	42.58	54	-11.42	-	-	31	303	H
4	5.464	40.22	Pk	34.7	-18.4	0	56.52	-	-	68.2	-11.68	31	303	H
8	5.469	27.45	RMS	34.8	-18.3	.1	44.05	-	-	-	-	31	303	H
3	5.47	37.59	Pk	34.8	-18.3	0	54.09	-	-	68.2	-14.11	31	303	H
7	5.47	25.46	RMS	34.8	-18.3	.1	42.06	-	-	-	-	31	303	H

* - indicates frequency in CFR47 Pt 15 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

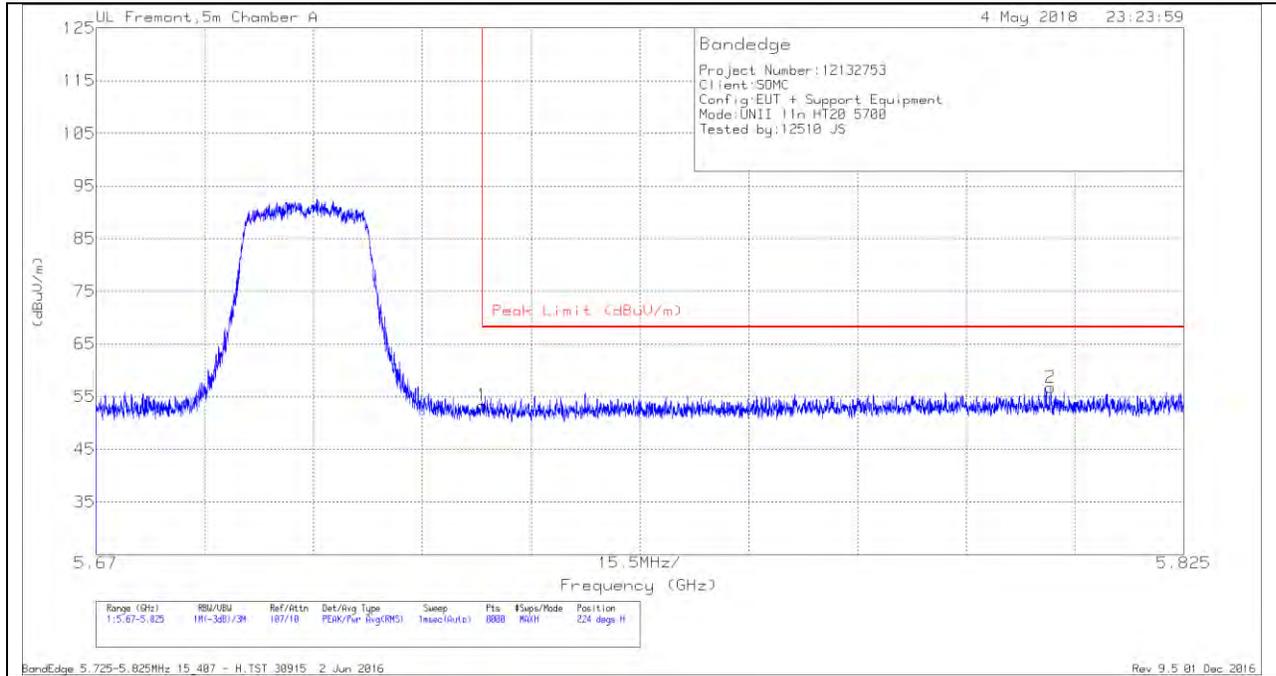


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.352	40.39	Pk	34.6	-18.2	0	56.79	-	-	74	-17.21	256	116	V
1	* 5.46	34.29	Pk	34.7	-18.5	0	50.49	-	-	74	-23.51	256	116	V
5	* 5.46	26.1	RMS	34.7	-18.5	.1	42.4	54	-11.6	-	-	256	116	V
6	* 5.46	27.75	RMS	34.7	-18.5	.1	44.05	54	-9.95	-	-	256	116	V
4	5.466	38.46	Pk	34.7	-18.4	0	54.76	-	-	68.2	-13.44	256	116	V
8	5.467	28.02	RMS	34.7	-18.4	.1	44.42	-	-	-	-	256	116	V
3	5.47	36.55	Pk	34.8	-18.3	0	53.05	-	-	68.2	-15.15	256	116	V
7	5.47	26.17	RMS	34.8	-18.3	.1	42.77	-	-	-	-	256	116	V

* - indicates frequency in CFR47 Pt 15 Restricted Band
 Pk - Peak detector
 RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

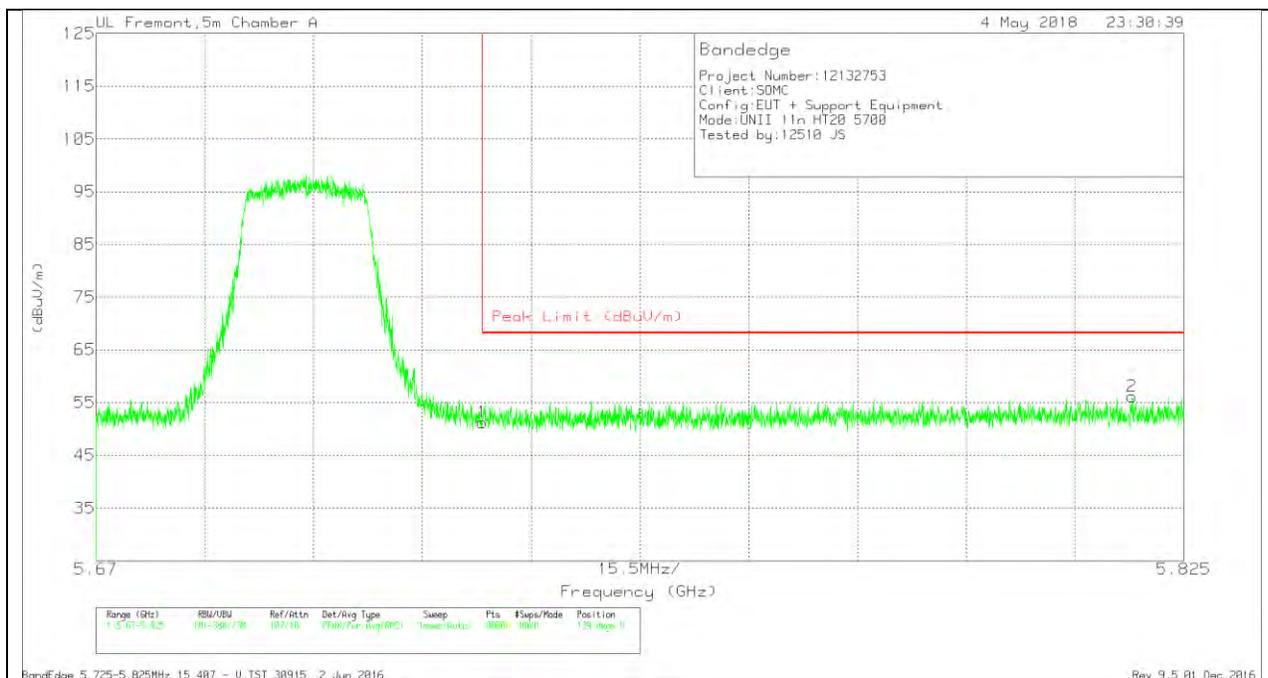
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	36.78	Pk	35	-18.5	53.28	68.2	-14.92	224	342	H
2	5.806	39.8	Pk	35.1	-18.2	56.7	68.2	-11.5	224	342	H

* - indicates frequency in CFR47 Pt 15 Restricted Band
 Pk - Peak detector

VERTICAL RESULT

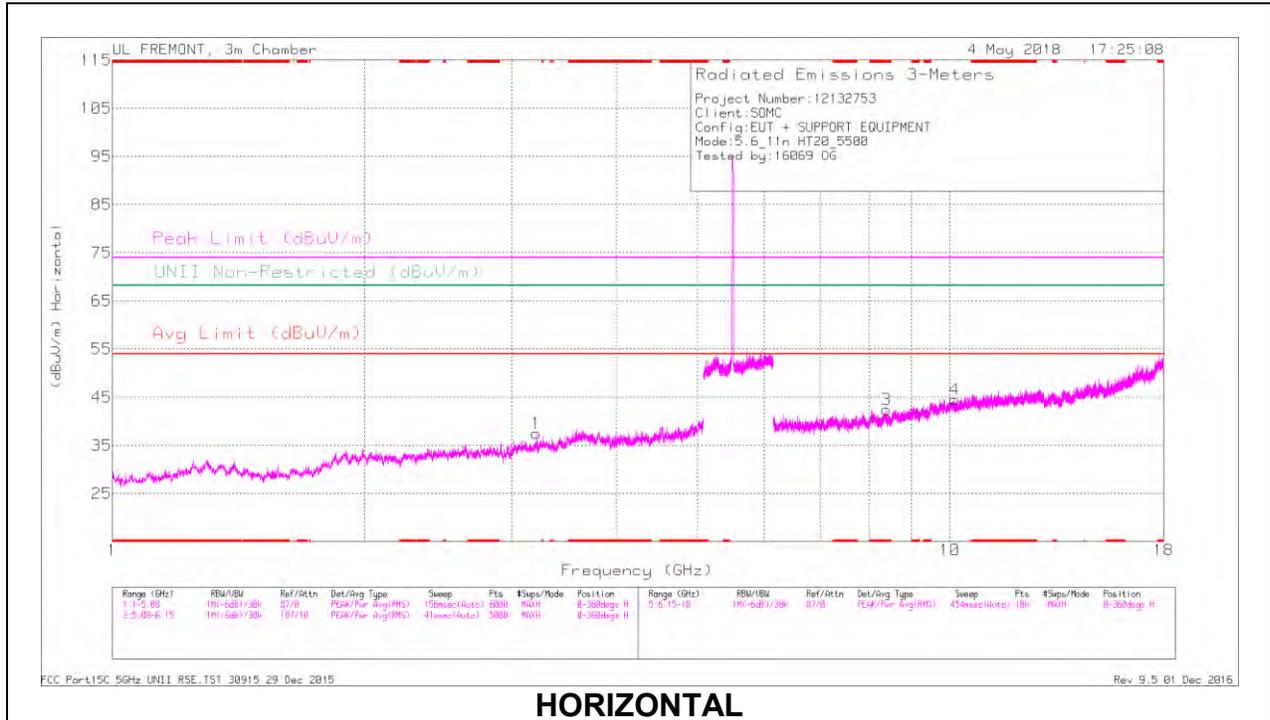


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	34.68	Pk	35	-18.5	0	51.18	68.2	-17.02	139	398	V
2	5.818	39.24	Pk	35.1	-18.2	0	56.14	68.2	-12.06	139	398	V

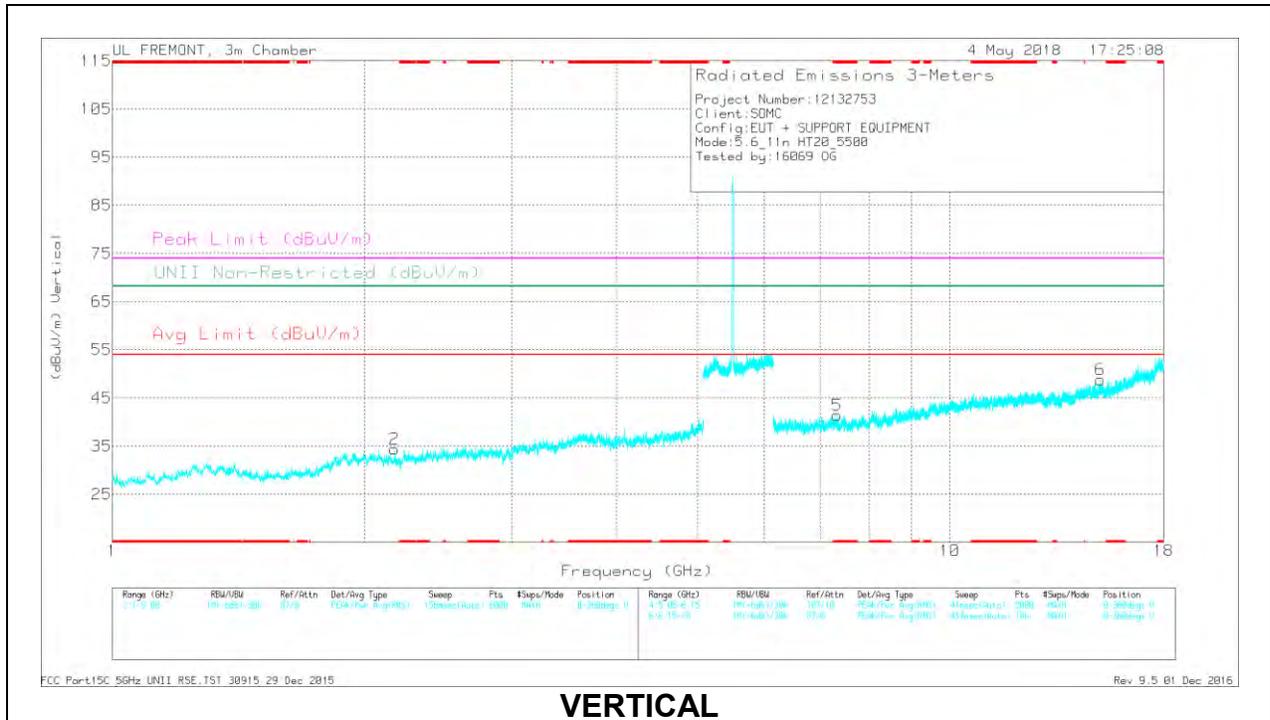
* - indicates frequency in CFR47 Pt 15 Restricted Band
 Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL