



CLASS II PERMISSIVE CHANGE **TEST REPORT**

Report Number. : 11421054-E1V2

Applicant : Google Inc.
1600 Ampitheatre Parkway
Mountain View, CA 94043

Model : NC2-6A5-D

FCC ID : A4RNC2-6A5-D

IC ID : 10395A-NC26A5D

EUT Description : Internet Video Streaming Device

Test Standard(s) : FCC 47 CFR PART 15 SUBPART E
INDUSTRY CANADA RSS - 247 ISSUE 1

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NVLAP LAB CODE 200065-0

Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V1	10/04/2016	Initial release	---
V2	10/17/2016	Updated sections 5.1, 5.3, 5.7, 8.2 and 8.3	Francisco de Anda

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Google Inc.
1600 Amphitheatre Parkway
Mountain View, CA 94043 U.S.A

EUT DESCRIPTION: Internet Video Streaming Device

MODEL: NC2-6A5-D

SERIAL NUMBER: 6816CZZDXE (CONDUCTED); 6803CZZEJS (RADIATED)


DATE TESTED: September 9th 2016 - September 22ND 2016

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart E	Pass
INDUSTRY CANADA RSS-247 Issue 1	Pass
INDUSTRY CANADA RSS-GEN Issue 4	Pass

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 any government.

Approved & Released For
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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, KDB 789033 D02 V01, ANSI C63.10-2013, RSS-GEN Issue 4, RSS-247 Issue 1.

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 type="checkbox"/>	Chamber A (IC:2324B-1)	<input type="checkbox"/>	Chamber D (IC:2324B-4)
<input checked="" type="checkbox"/>	Chamber B (IC:2324B-2)	<input type="checkbox"/>	Chamber E (IC:2324B-5)
<input type="checkbox"/>	Chamber C (IC:2324B-3)	<input type="checkbox"/>	Chamber F (IC:2324B-6)
		<input type="checkbox"/>	Chamber G (IC:2324B-7)
		<input checked="" type="checkbox"/>	Chamber H (IC:2324B-8)

The above test sites and facilities are covered under FCC Test Firm Registration # 208313.

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://ts.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:

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

4.3. MEASUREMENT UNCERTAINTY

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

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. DESCRIPTION OF EUT

The EUT is an Internet Video Streaming Device. Tests in this report cover 5GHZ radio only.

5.2. DESCRIPTION OF CLASS II PERMISSIVE CHANGE

The purpose of this C2PC is to upgrade the device described under section 5.1 of this report to include an alternate shield can that goes over the radio IC.

5.3. MAXIMUM OUTPUT POWER

The transmitter has a maximum average conducted output power as follows:

5.2 GHz BAND

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
1TX			
5180 - 5240	802.11a	15.07	32.14
5180 - 5240	802.11n HT20	14.32	27.04
5190 - 5230	802.11n HT40	14.12	25.82
5210	802.11ac VHT80	13.25	21.13

5.3 GHz BAND

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
1TX			
5260 - 5320	802.11a	14.08	25.59
5260 - 5320	802.11n HT20	14.24	26.55
5270 - 5310	802.11n HT40	14.07	25.53
5290	802.11ac VHT80	10.49	11.19

5.6 GHz BAND

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
1TX			
5500 - 5700	802.11a	14.93	31.12
5500 - 5700	802.11n HT20	13.25	21.13
5510 - 5670	802.11n HT40	15.01	31.70
5530 - 5610	802.11ac VHT80	14.31	26.98

5.8 GHz BAND

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
1TX			
5745 - 5825	802.11a	14.72	29.65
5745 - 5825	802.11n HT20	13.94	24.77
5755 - 5795	802.11n HT40	14.81	30.27
5775	802.11ac VHT80	15.07	32.14

STRADDLE CHANNELS

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
1TX (Channels overlapping UNII-2C and UNII-3)			
5720 (Whole Fundamental)	802.11a	8.89	7.74
5720 (Whole Fundamental)	802.11n HT20	10.06	10.14
5710 (Whole Fundamental)	802.11n HT40	11.91	15.52
5690 (Whole Fundamental)	802.11ac VHT80	14.15	26.00

5.4. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a PCB antenna, with a maximum gain of 3.7dBi

5.5. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was 16.80.205.82

The test utility software used during testing was Labtool ver. 1.0.0.82.

5.6. WORST-CASE CONFIGURATION AND MODE

Radiated emissions and power line conducted emissions were performed with the EUT set to transmit at the channel with the highest power as worst-case scenario.

The fundamental of the EUT was investigated in three orthogonal orientations X (Flatbed), Y (Landscape), Z (Portrait), it was determined that X was the worst-case orientation. Therefore, all final radiated testing was performed with the EUT in the X orientation.

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

802.11a mode: 6 Mbps
802.11n HT20 mode: MCS0
802.11n HT40 mode: MCS0
802.11ac VHT80 mode: MCS0

5.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter	HP	HSTNN-LA40	WDUV0B3U8HK1Y	DoC
Laptop	HP	11-d001ax	5CD51643JG	DoC

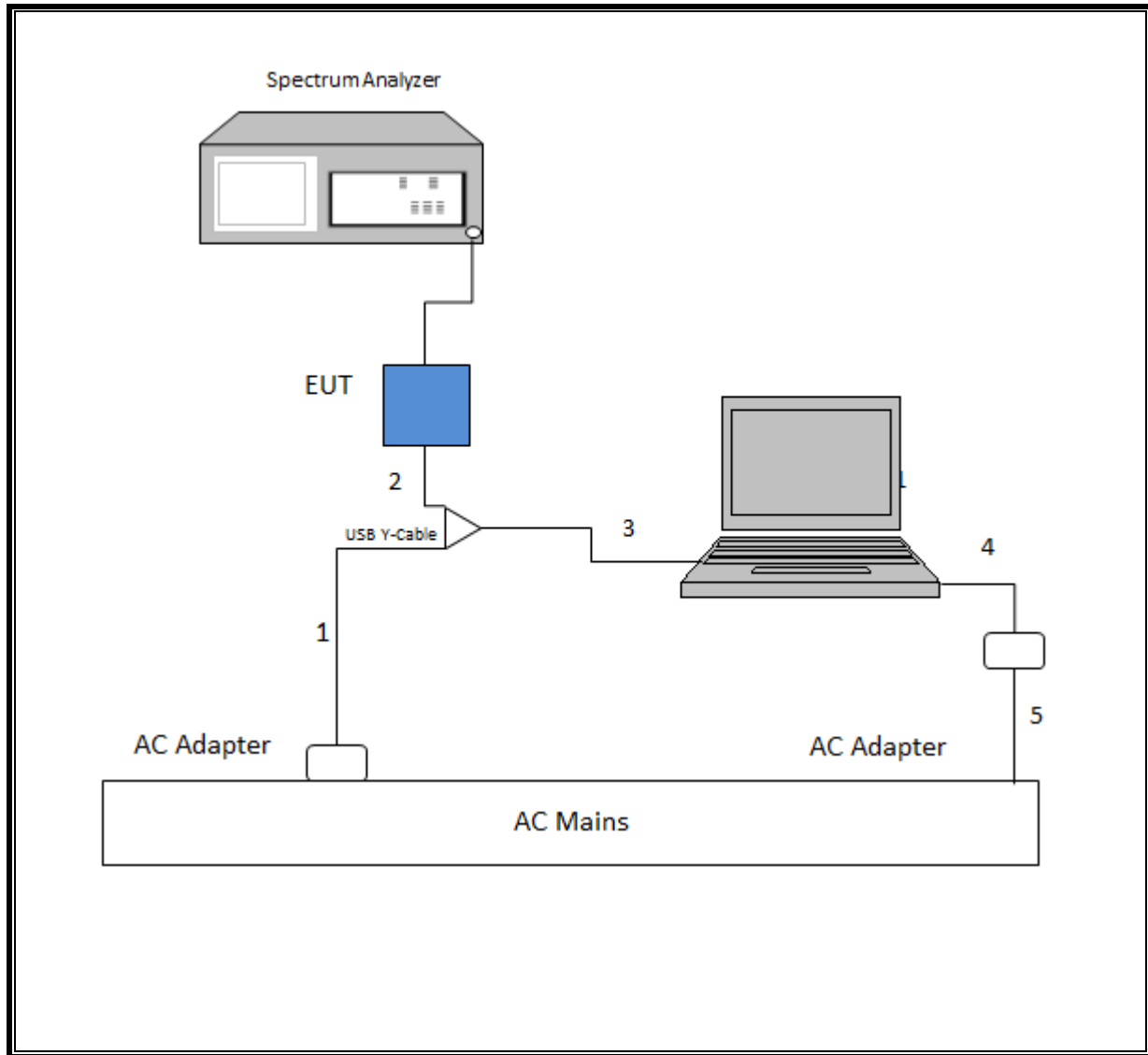
I/O CABLES

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	USB	1	Micro USB	unshielded	2	
2	USB	1	Micro USB	unshielded	0.2	Y-cable
3	USB	1	USB	unshielded	2.5	USB serial cable
4	DC	1	Barrel	unshielded	1.7	
5	AC	1	3 prong	unshielded	1	

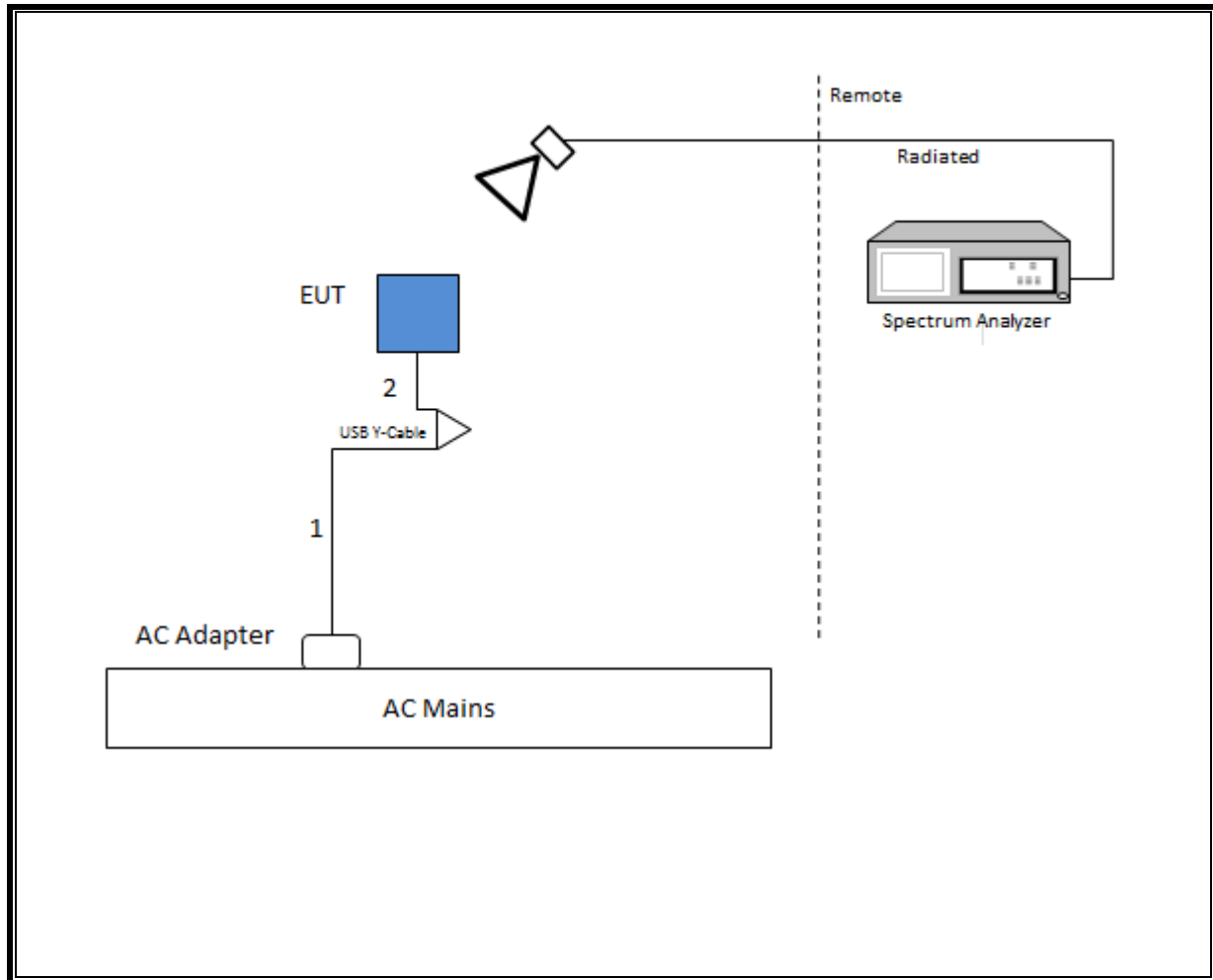
TEST SETUP

The EUT was connected to a host Laptop via USB serial cable. Test software exercised the EUT. For radiated tests, the EUT was exercised via an internal script residing in the OS of its internal computer. A laptop was connected and was used as a terminal to start up the script and then disconnected during tests.

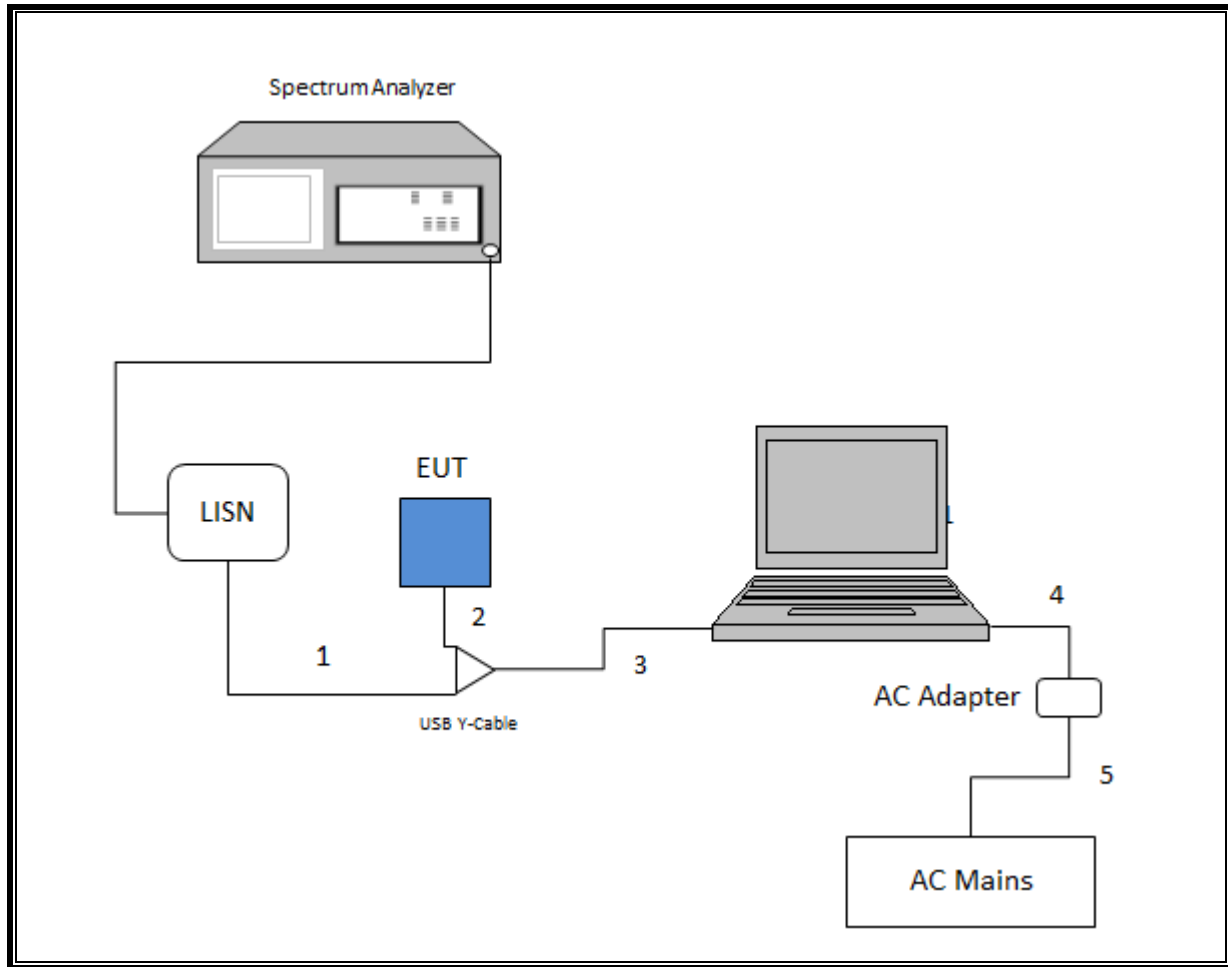
SETUP DIAGRAM FOR CONDUCTED TESTS



SETUP DIAGRAM FOR RADIATED TESTS



SETUP DIAGRAM FOR LINE CONDUCTED TEST



6. 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	Asset	Cal Due
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences Corp.	JB3	T407	04/04/2017
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	T120	04/05/2017
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	T345	03/07/2017
Antenna, Horn 18-26GHz	ARA	MWH-1826/B	T449	05/26/2017
Antenna, Horn 26-40GHz	ARA	MWH-2640/B	T446	05/25/2017
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A	T906	02/03/2017
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A	T907	01/06/2017
Spectrum Analyzer, 40 GHz	HP	8546E	T106	09/07/2017
RF Preamplifier, 1-18GHz	Miteq	AFS42-00101800-25-S-42	T495	09/15/2017
RF Preamplifier, 1-18GHz	Miteq	AFS42-00101800-25-S-42	T493	03/9/2017
RF Preamplifier, 1-7GHz	Amplical		T1563	09/15/2017
RF Preamplifier, 1-8GHz	Miteq	AMF-4D-01000800-30-29P	T1156	03/09/2017
RF Preamplifier, 10kHz – 1GHz	Sonoma	310N	T835	06/18/2017
RF Preamplifier, 1-26GHz	Agilent	8449B	T404	07/05/2017
RF Preamplifier, 26-40GHz	Miteq	NSP 4000 SP2	T88	04/07/2017
Low Pass Filter 5GHz	Micro-Tronics	LPS17541	T891	09/15/2017
Low Pass Filter 5GHz	Micro-Tronics	LPS17541	T482	03/09/2017
High Pass Filter 6GHz	Micro-Tronics	HPS17542	T894	09/15/2017
High Pass Filter 6GHz	Micro-Tronics	HPS17542	T483	03/09/2017
LISN, 30MHz	FCC	FCC-LISN-50/250-25-2-01	T1310	06/08/2017
EMI Test Receiver, 9kHz to 7GHz	Rohde & Schwarz	ESR	T1436	12/19/2016

Test Software List			
Description	Manufacturer	Model	Version
Radiated Software	UL	UL EMC	9.5, 4/26/16
Antenna Port Software	UL	UL RF	5.0, 6/22/16
Conducted Emissions Software	UL	UL EMC	9.5, 5/26/15

7. MEASUREMENT METHODS

On Time and Duty Cycle: KDB 789033 D02 v01r03, Section B.

Conducted Output Power: KDB 789033 D02 v01r02, Section E.2.b (Method SA-1), KDB 789033 D02 v01r02, Section E.3.b (Method PM-G).

Unwanted emissions in restricted bands: KDB 789033 D02 v01r03, Sections G.3, G.4, G.5, and G.6.

Unwanted emissions in non-restricted bands: KDB 789033 D02 v01r03, Sections G.3, G.4, and G.5.

AC Power 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

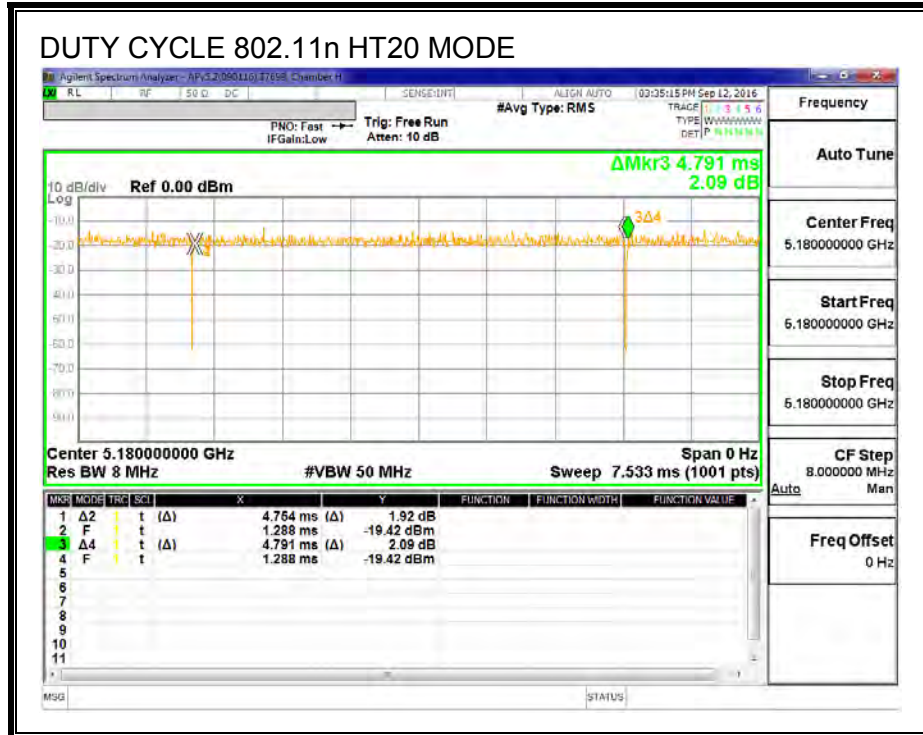
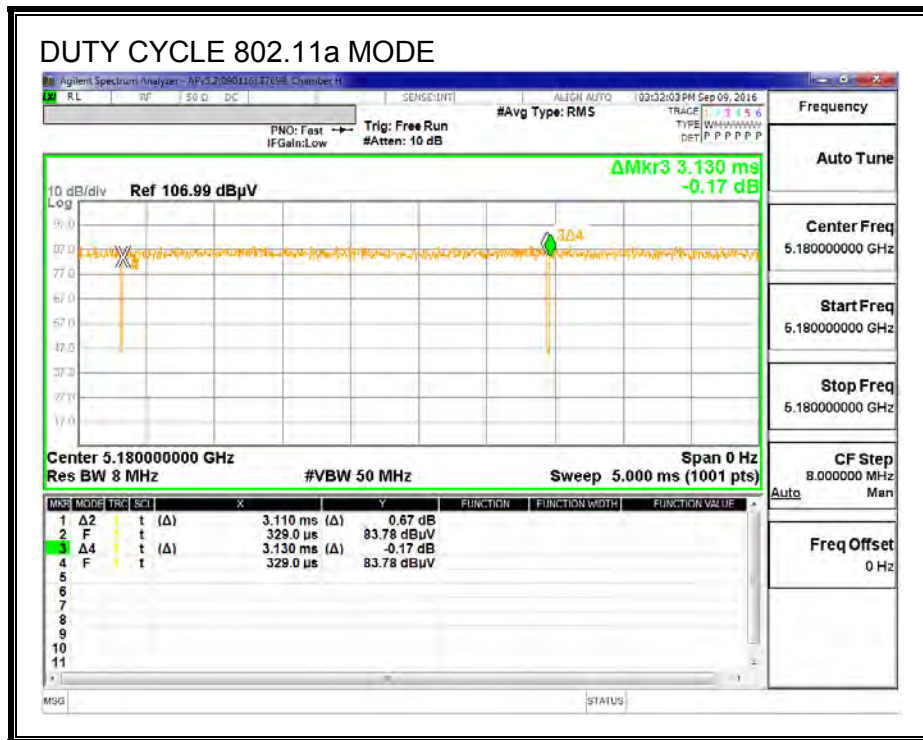
KDB 789033 Zero-Span Spectrum Analyzer Method.

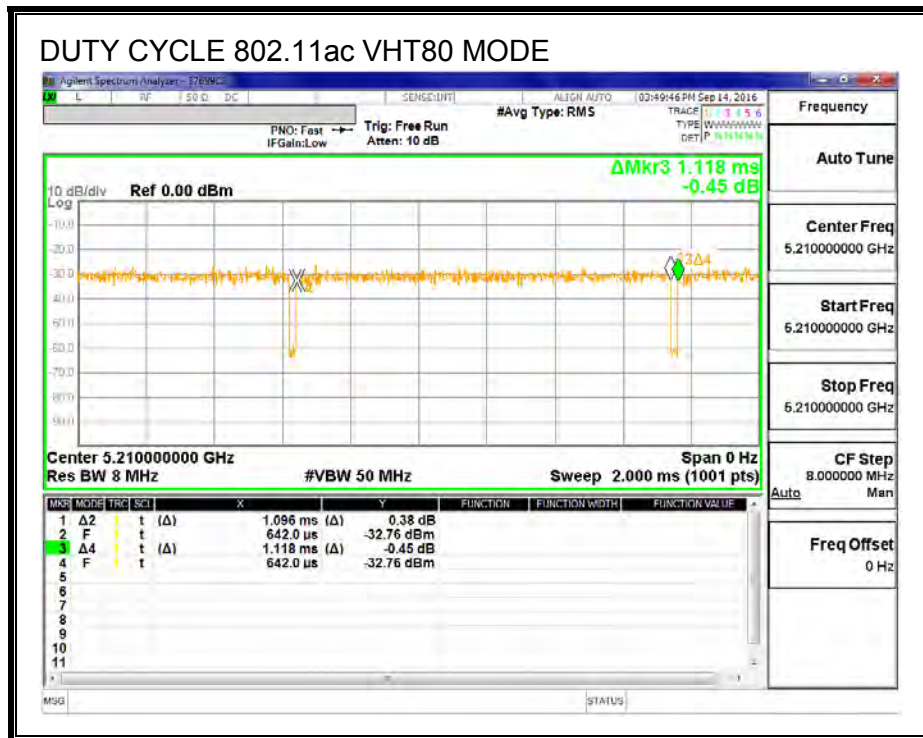
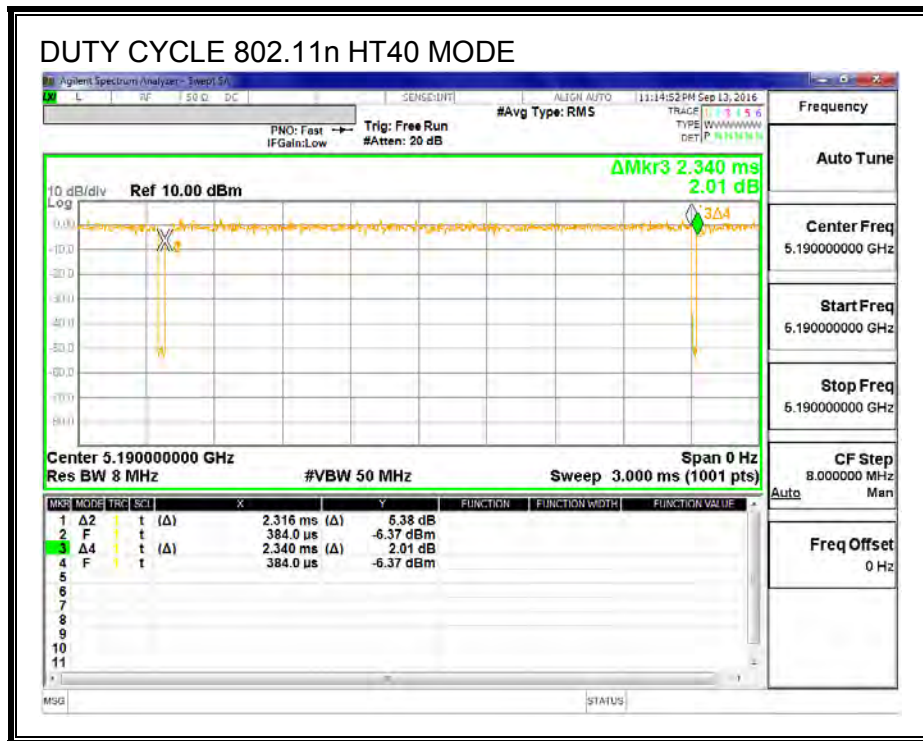
RESULTS

Tested By:	37699 CS
Date:	9/9/16 - 9/14/16

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	3.110	3.130	0.994	99.36%	0.00	0.010
802.11n HT20	4.754	4.791	0.992	99.23%	0.00	0.010
802.11n HT40	2.316	2.340	0.990	98.97%	0.00	0.010
802.11ac VHT80	1.096	1.118	0.980	98.03%	0.00	0.010

DUTY CYCLE PLOTS





8.2. OUTPUT POWER AND PPSD

LIMITS

FCC §15.407

Band 5.15–5.25 GHz

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.

Bands 5.25-5.35 GHz and 5.47-5.725 GHz

The maximum conducted output power over the frequency bands 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 megahertz. 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.

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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

IC RSS-247

Band 5.15-5.25 GHz

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.

Band 5.25-5.35 GHz

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. 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.

Bands 5.47-5.6 GHz and 5.65-5.725 GHz

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. 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.

Band 5.725-5.85 GHz

The maximum conducted output power shall not exceed 1 W. The 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 power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

DIRECTIONAL ANTENNA GAIN

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

RESULTS

8.2.1. 802.11a MODE IN THE 5.2 GHz BAND

Tested By:	39316 CX
Date:	9/22/2016

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5180	20.12	16.59	3.70
Mid	5200	20.18	16.70	3.70
High	5240	20.27	16.68	3.70

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC EIRP Limit (dBm)	Max IC Power (dBm)	Power Limit (dBm)
Low	5180	24.00	22.20	18.50	18.50
Mid	5200	24.00	22.23	18.53	18.53
High	5240	24.00	22.22	18.52	18.52

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	15.07	15.07	18.50	-3.43
Mid	5200	14.14	14.14	18.53	-4.39
High	5240	14.05	14.05	18.52	-4.47

8.2.2. 802.11n HT20 MODE IN THE 5.2 GHz BAND

Tested By:	39316 CX
Date:	9/22/2016

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5180	20.43	17.73	3.70
Mid	5200	20.43	17.72	3.70
High	5240	20.89	17.68	3.70

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC EIRP Limit (dBm)	Max IC Power (dBm)	Power Limit (dBm)
Low	5180	24.00	22.49	18.79	18.79
Mid	5200	24.00	22.48	18.78	18.78
High	5240	24.00	22.47	18.77	18.77

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	14.32	14.32	18.79	-4.47
Mid	5200	14.28	14.28	18.78	-4.50
High	5240	14.29	14.29	18.77	-4.48

8.2.3. 802.11n HT40 MODE IN THE 5.2 GHz BAND

Tested By:	39316 CX
Date:	9/22/2016

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5190	41.71	36.24	3.70
High	5230	41.23	36.25	3.70

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC EIRP Limit (dBm)	Max IC Power (dBm)	Power Limit (dBm)
Low	5190	24.00	23.00	19.30	19.30
High	5230	24.00	23.00	19.30	19.30

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	13.25	13.25	19.30	-6.05
High	5230	14.12	14.12	19.30	-5.18

8.2.4. 802.11ac VHT80 MODE IN THE 5.2 GHz BAND

Tested By:	39316 CX
Date:	9/22/2016

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Mid	5210	83.00	76.01	3.70

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC EIRP Limit (dBm)	Max IC Power (dBm)	Power Limit (dBm)
Mid	5210	24.00	23.00	19.30	19.30

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5210	13.25	13.25	19.30	-6.05

8.2.5. 802.11a MODE IN THE 5.3 GHZ BAND

Tested By:	39316 CX
Date:	9/22/2016

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5260	20.96	16.730	3.70
Mid	5300	20.55	16.640	3.70
High	5320	20.31	16.720	3.70

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)
Low	5260	24.00	23.23	29.23	23.23
Mid	5300	24.00	23.21	29.21	23.21
High	5320	24.00	23.23	29.23	23.23

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	14.08	14.08	23.23	-9.15
Mid	5300	13.03	13.03	23.21	-10.18
High	5320	13.04	13.04	23.23	-10.19

8.2.6. 802.11n HT20 MODE IN THE 5.3 GHz BAND

Tested By:	39316 CX
Date:	9/22/2016

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5260	20.43	17.720	3.70
Mid	5300	20.43	17.690	3.70
High	5320	20.93	17.720	3.70

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)
Low	5260	24.00	23.48	29.48	23.48
Mid	5300	24.00	23.48	29.48	23.48
High	5320	24.00	23.48	29.48	23.48

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	14.21	14.21	23.48	-9.27
Mid	5300	13.22	13.22	23.48	-10.26
High	5320	14.24	14.24	23.48	-9.24

8.2.7. 802.11n HT40 MODE IN THE 5.3 GHz BAND

Tested By:	39316 CX
Date:	9/22/2016

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5270	42.1	36.2	3.70
High	5310	42.2	36.3	3.70

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)
Low	5270	24.00	24.00	30.00	24.00
High	5310	24.00	24.00	30.00	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	14.02	14.02	24.00	-9.98
High	5310	14.07	14.07	24.00	-9.93

8.2.8. 802.11ac VHT80 MODE IN THE 5.3 GHz BAND

Tested By:	39316 CX
Date:	9/22/2016

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Mid	5290	82.5	76.1	3.70

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)
Mid	5290	24.00	24.00	30.00	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	10.49	10.49	24.00	-13.51

8.2.9. 802.11a MODE IN THE 5.6 GHz BAND

Tested By:	39316 CX
Date:	9/22/2016

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5500	20.55	16.640	3.70
Mid	5580	20.40	16.650	3.70
High	5700	20.55	16.640	3.70

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)
Low	5500	24.00	23.21	29.21	23.21
Mid	5580	24.00	23.21	29.21	23.21
High	5700	24.00	23.21	29.21	23.21

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	13.91	13.91	23.21	-9.30
Mid	5580	14.93	14.93	23.21	-8.28
High	5700	11.69	11.69	23.21	-11.52

8.2.10. 802.11n HT20 MODE IN THE 5.6 GHz BAND

Tested By:	39316 CX
Date:	9/22/2016

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5500	20.43	17.730	3.70
Mid	5580	20.43	17.690	3.70
High	5700	20.58	17.630	3.70

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)
Low	5500	24.00	23.49	29.49	23.49
Mid	5580	24.00	23.48	29.48	23.48
High	5700	24.00	23.46	29.46	23.46

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	13.25	13.25	23.49	-10.24
Mid	5580	11.20	11.20	23.48	-12.28
High	5700	11.64	11.64	23.46	-11.82

8.2.11. 802.11n HT40 MODE IN THE 5.6 GHz BAND

Tested By:	39316 CX
Date:	9/22/2016

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5510	41.4	36.230	3.70
Mid	5550	41.7	36.320	3.70
High	5670	41.5	36.220	3.70

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)
Low	5510	24.00	24.00	30.00	24.00
Mid	5550	24.00	24.00	30.00	24.00
High	5670	24.00	24.00	30.00	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	13.10	13.10	24.00	-10.90
Mid	5550	15.01	15.01	24.00	-8.99
High	5670	14.89	14.89	24.00	-9.11

8.2.12. 802.11ac VHT80 MODE IN THE 5.6 GHz BAND

Tested By:	39316 CX
Date:	9/22/2016

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5530	82.75	75.96	3.70
High	5610	83.00	75.97	3.70

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)
Low	5530	24.00	24.00	30.00	24.00
High	5610	24.00	24.00	30.00	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	10.44	10.44	24.00	-13.56
High	5610	14.31	14.31	24.00	-9.69

8.2.13. 802.11 STRADDLE CHANNELS IN THE 5.6 GHz BAND

Tested By:	39316 CX
Date:	9/22/2016

Bandwidth and Antenna Gain

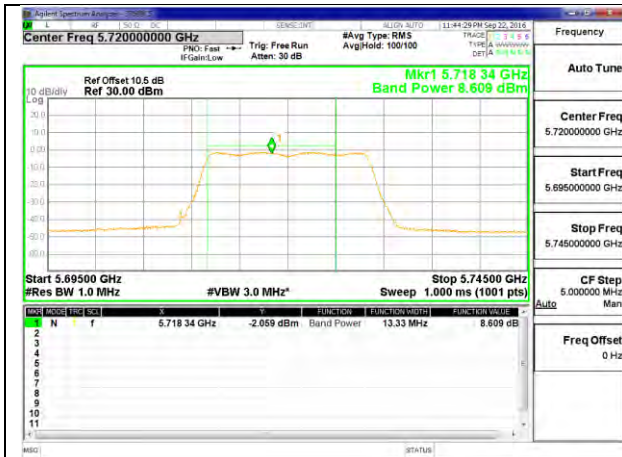
Mode	Channel	Freq (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Duty Cycle Correction Factor (dB)	Directional Gain (dBi)
11a	144	5720	20.90	16.66	0.00	3.7
11n HT20	144	5720	20.80	17.71	0.00	3.7
11n HT40	142	5710	42.23	36.24	0.00	3.7
11ac VHT80	138	5690	82.9	76.24	0.00	3.7

Limits

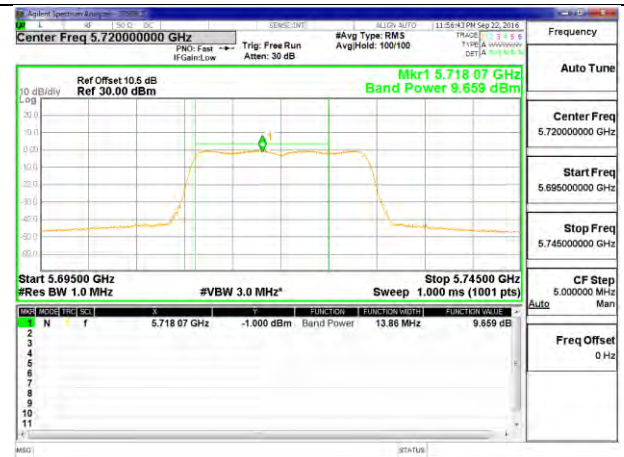
Mode	Channel	Freq (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)
11a	144	5720	24.00	23.22	29.22	23.22
11n HT20	144	5720	24.00	23.48	29.48	23.48
11n HT40	142	5710	24.00	24.00	30.00	24.00
11ac VHT80	138	5690	24.00	24.00	30.00	24.00

Output Power Results

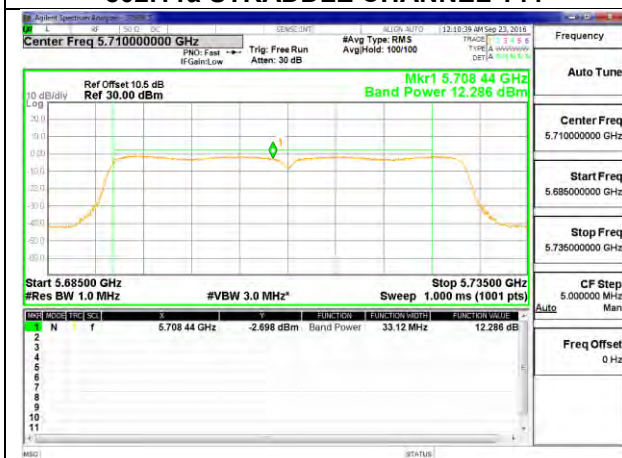
Mode	Channel	Freq (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
11a	144	5720	8.61	8.61	23.22	-14.61
11n HT20	144	5720	9.66	9.66	23.48	-13.82
11n HT40	142	5710	12.29	12.29	24.00	-11.71
11ac VHT80	138	5690	14.64	14.64	24.00	-9.37



802.11a STRADDLE CHANNEL 144



802.11n HT20 STRADDLE CHANNEL 144



802.11n HT40 STRADDLE CHANNEL 142



802.11ac VHT80 STRADDLE CHANNEL 138

8.2.14. 802.11 STRADDLE CHANNELS IN THE 5.8 GHz BAND

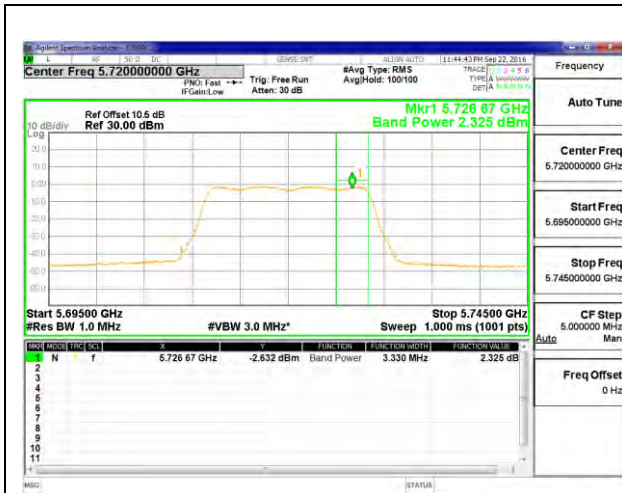
Tested By:	39316 CX
Date:	9/22/2016

Antenna Gain and Limits

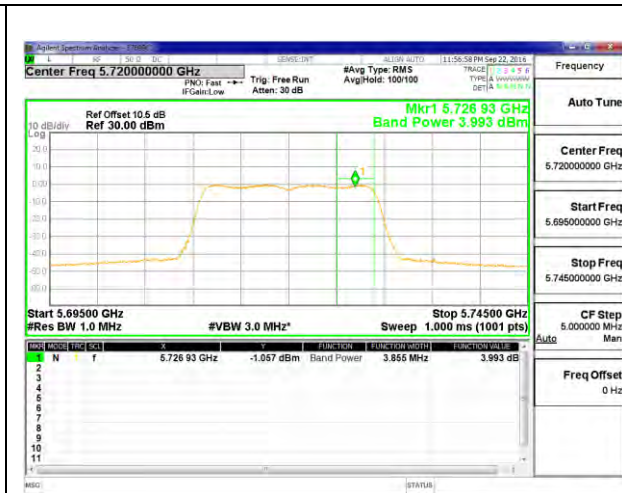
Mode	Channel	Freq (MHz)	Duty Cycle Correction Factor (dB)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)
11a	144	5720	0.00	3.70	30.00	30.00
11n HT20	144	5720	0.00	3.70	30.00	30.00
11n HT40	142	5710	0.00	3.70	30.00	30.00
11ac VHT80	138	5690	0.00	3.70	30.00	30.00

Output Power Results

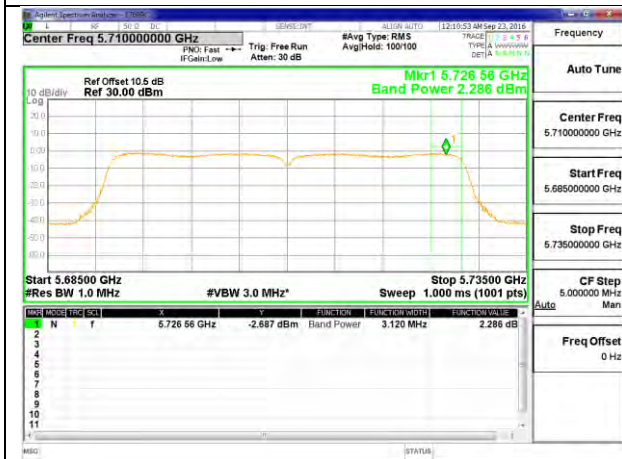
Mode	Channel	Freq (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
11a	144	5720	2.33	2.33	30.00	-27.68
11n HT20	144	5720	3.99	3.99	30.00	-26.01
11n HT40	142	5710	2.29	2.29	30.00	-27.71
11ac VHT80	138	5690	0.64	0.64	30.00	-29.36



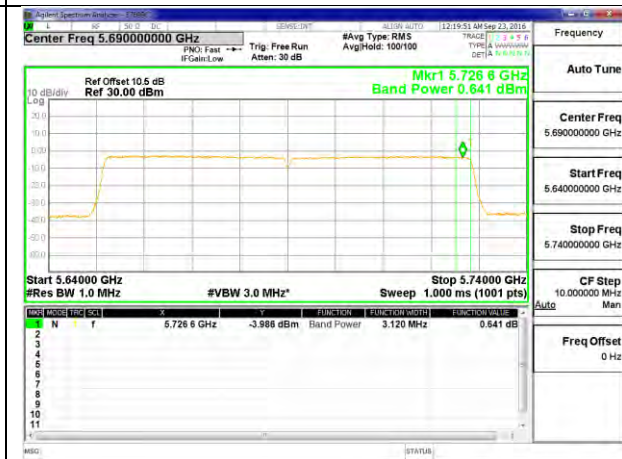
802.11a STRADDLE CHANNEL 144



802.11n HT20 STRADDLE CHANNEL 144



802.11n HT40 STRADDLE CHANNEL 142



802.11ac VHT80 STRADDLE CHANNEL 138

8.2.15. 802.11a MODE IN THE 5.8 GHZ BAND

Tested By:	39316 CX
Date:	9/22/2016

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/IC Power Limit (dBm)
Low	5745	3.70	30.00
Mid	5785	3.70	30.00
High	5825	3.70	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	11.82	11.82	30.00	-18.18
Mid	5785	14.60	14.60	30.00	-15.40
High	5825	14.72	14.72	30.00	-15.28

8.2.16. 802.11n HT20 MODE IN THE 5.8 GHz BAND

Tested By:	39316 CX
Date:	9/22/2016

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/IC Power Limit (dBm)
Low	5745	3.70	30.00
Mid	5785	3.70	30.00
High	5825	3.70	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	11.89	11.89	30.00	-18.11
Mid	5785	12.97	12.97	30.00	-17.03
High	5825	13.94	13.94	30.00	-16.06

8.2.17. 802.11n HT40 MODE IN THE 5.8 GHz BAND

Tested By:	39316 CX
Date:	9/22/2016

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/IC Power Limit (dBm)
Low	5755	3.70	30.00
High	5795	3.70	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	11.88	11.88	30.00	-18.12
High	5795	14.81	14.81	30.00	-15.19

8.2.18. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

Tested By:	39316 CX
Date:	9/22/2016

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/IC Power Limit (dBm)
Mid	5775	3.70	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	15.07	15.07	30.00	-14.93

8.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 10.5 dB (including 10 dB pad and 0.5 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

RESULTS

8.3.1. 802.11 STRADDLE CHANNELS (WHOLE FUNDAMENTAL)

Tested By:	39316 CX
Date:	9/22/2016

Mode	Channel	Frequency (MHz)	Avg Power (dBm)
11a	144	5720	8.89
11n HT20	144	5720	10.06
11n HT40	142	5710	11.91
11ac VHT80	138	5690	14.15

9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-GEN, Section 8.9 and 8.10.

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

TEST PROCEDURE

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

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

For 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.

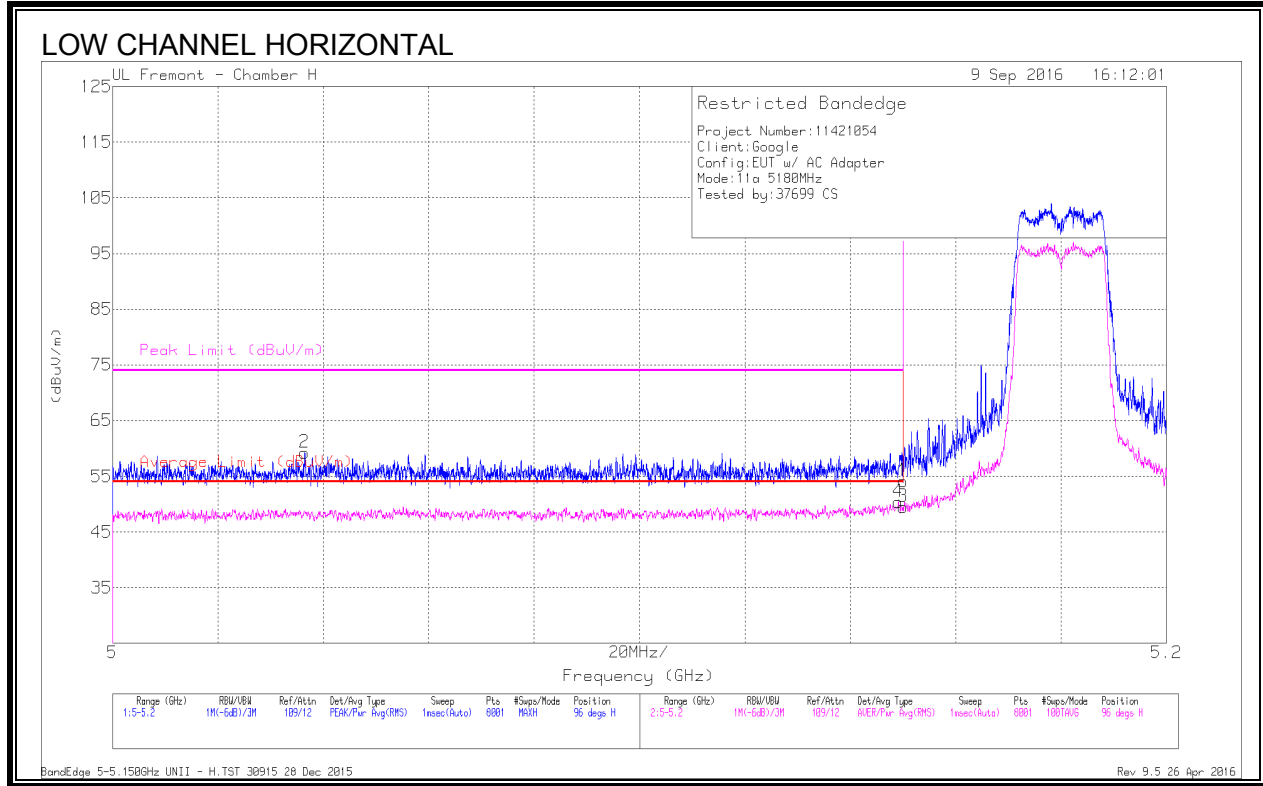
The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

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.

Radiated emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

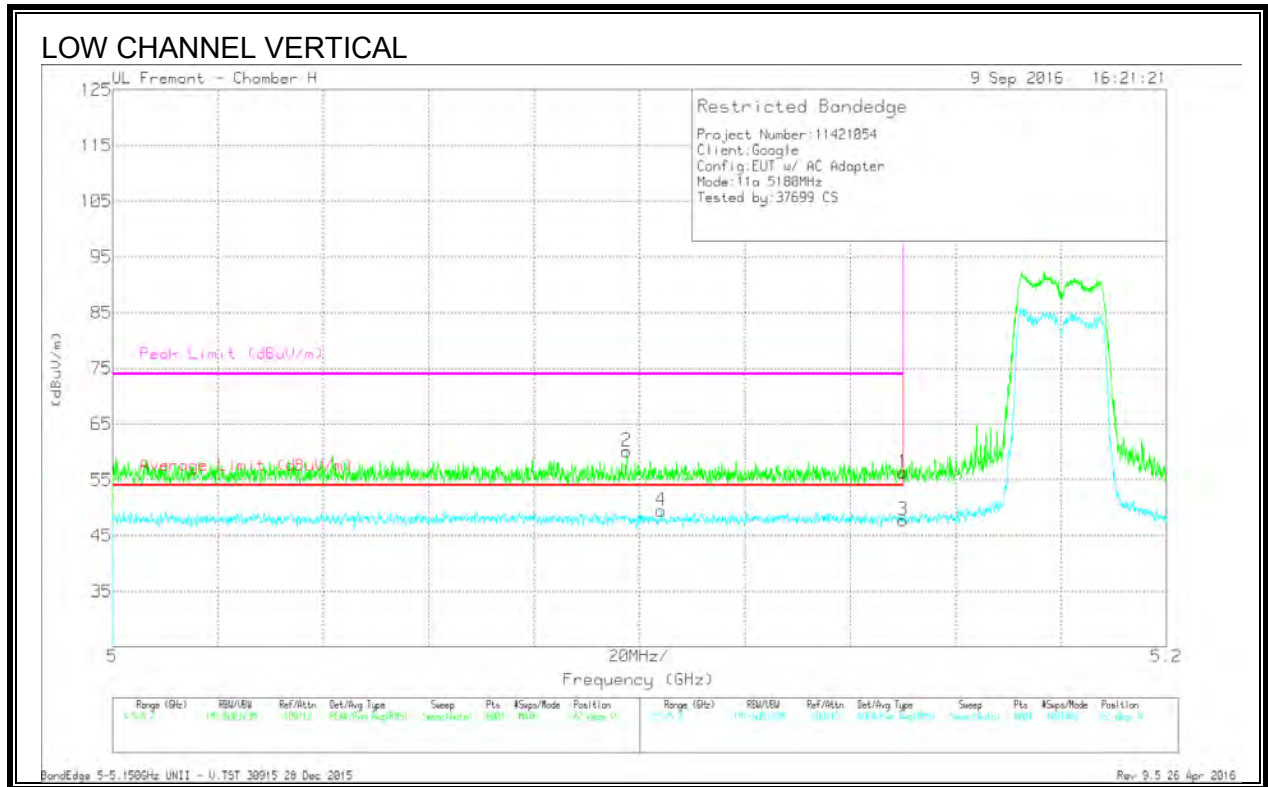
9.1.1. 11a MODE IN THE 5.2GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.037	41.66	Pk	34.1	-16.5	59.26	-	-	74	-14.74	96	149	H
4	* 5.149	32.44	RMS	34.3	-16.4	50.34	54	-3.66	-	-	96	149	H
1	5.15	36.25	Pk	34.3	-16.4	54.15	-	-	74	-19.85	96	149	H
3	5.15	31.59	RMS	34.3	-16.4	49.49	54	-4.51	-	-	96	149	H

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



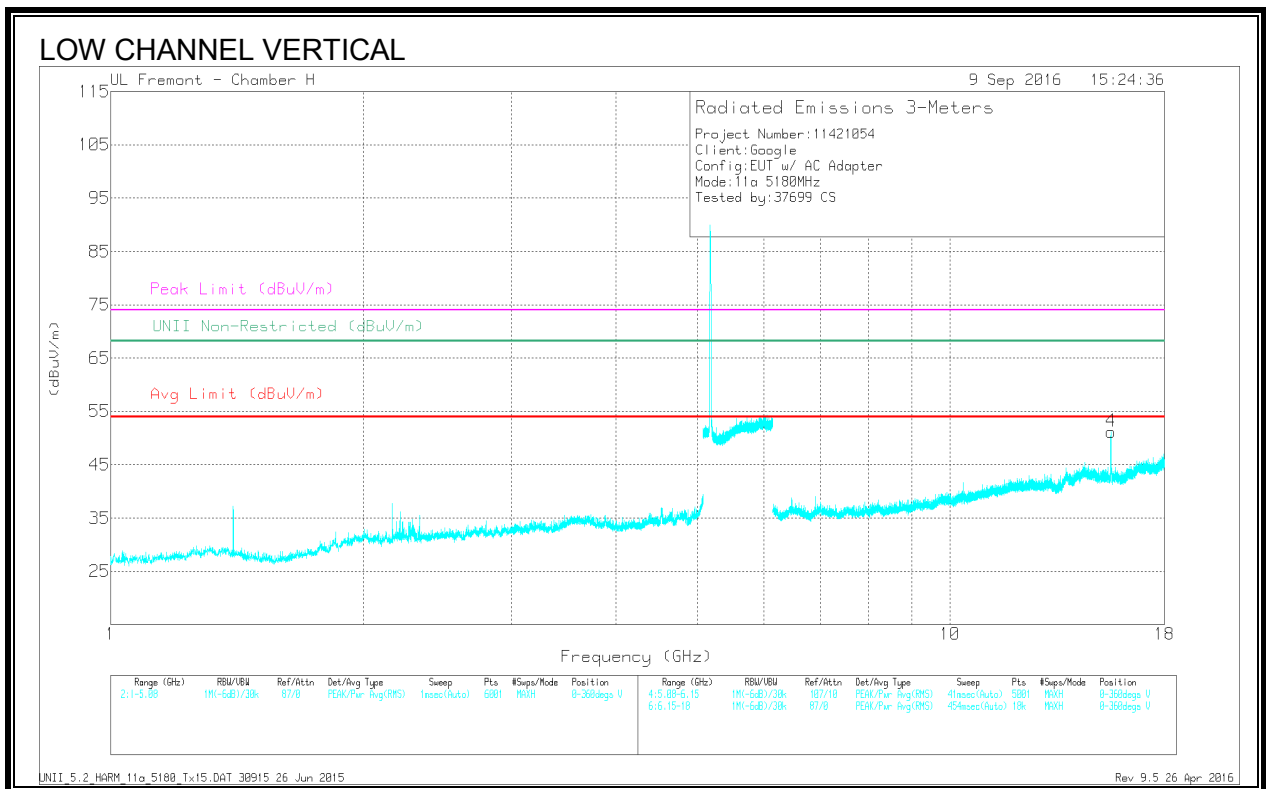
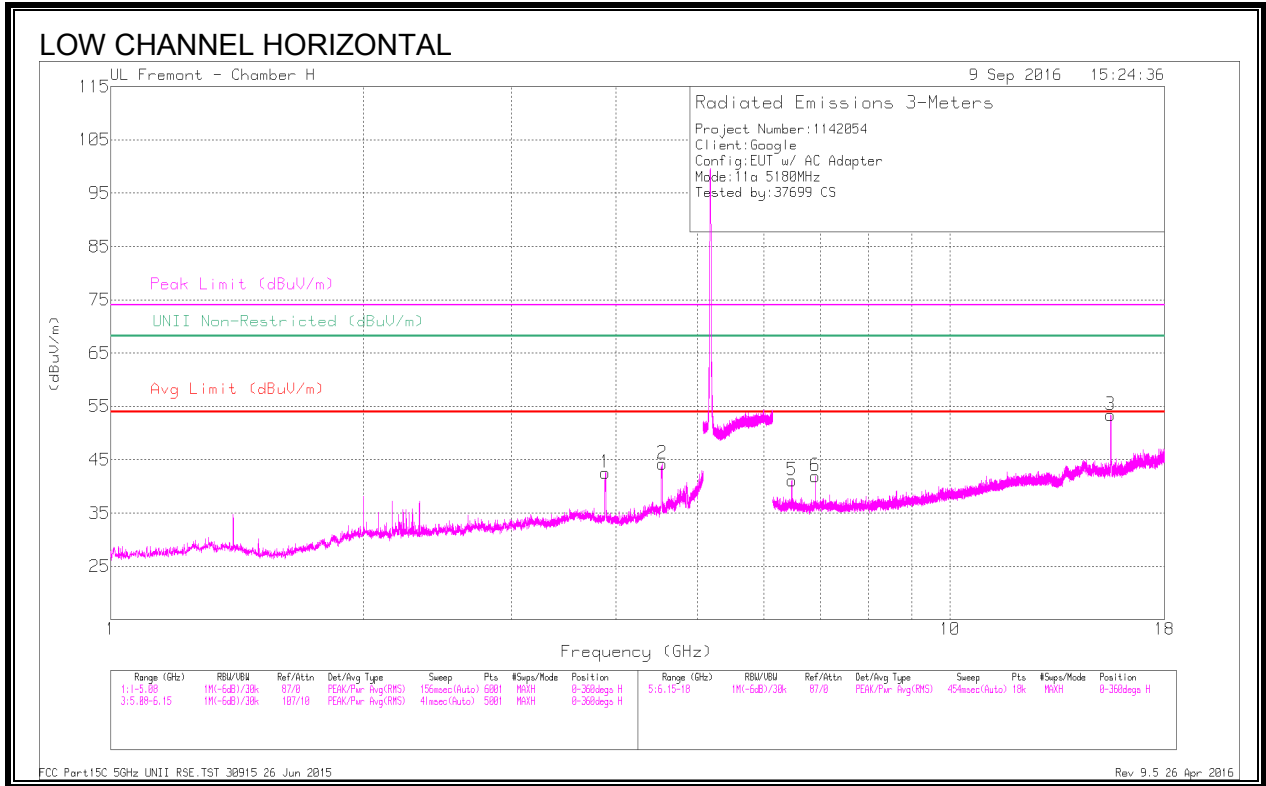
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.098	42.56	Pk	34.1	-16.5	60.16	-	-	74	-13.84	62	254	V
4	* 5.104	31.95	RMS	34.1	-16.5	49.55	54	-4.45	-	-	62	254	V
1	5.15	38.51	Pk	34.3	-16.4	56.41	-	-	74	-17.59	62	254	V
3	5.15	29.91	RMS	34.3	-16.4	47.81	54	-6.19	-	-	62	254	V

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

Pk - Peak detector

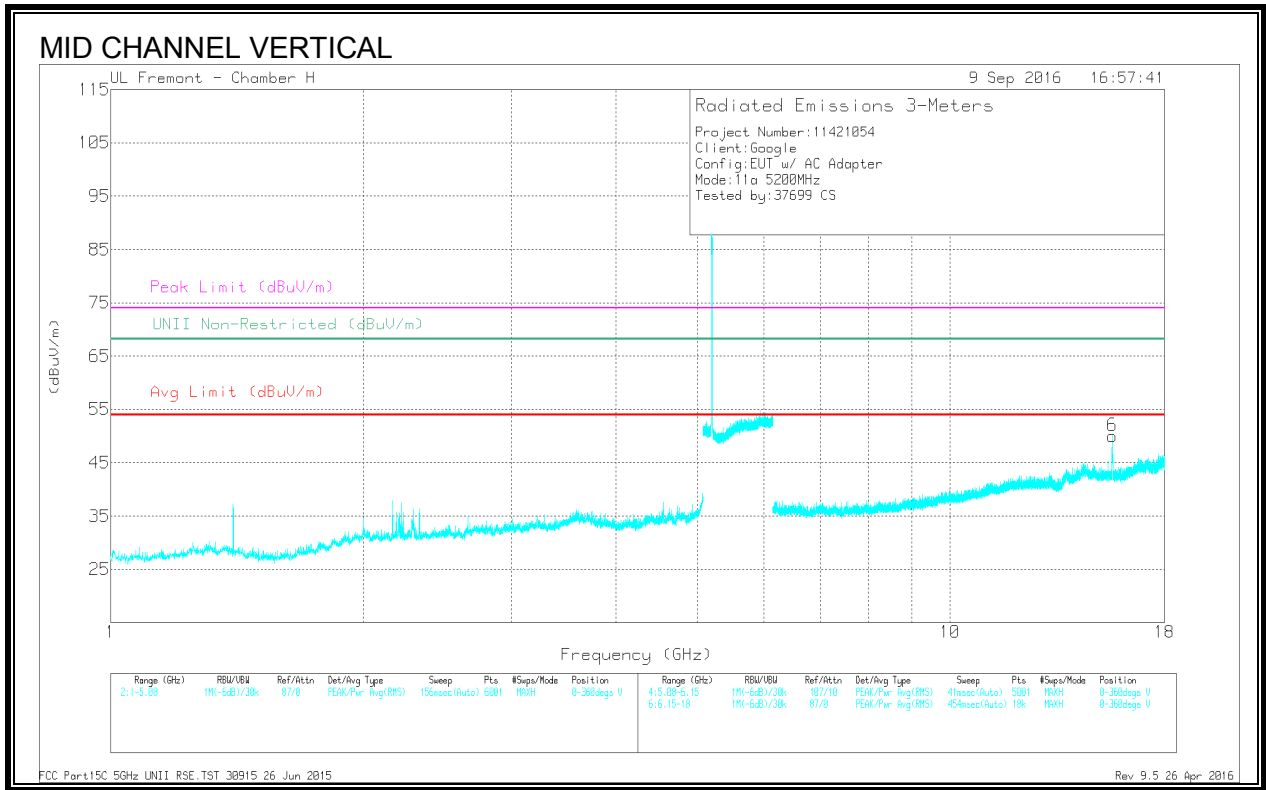
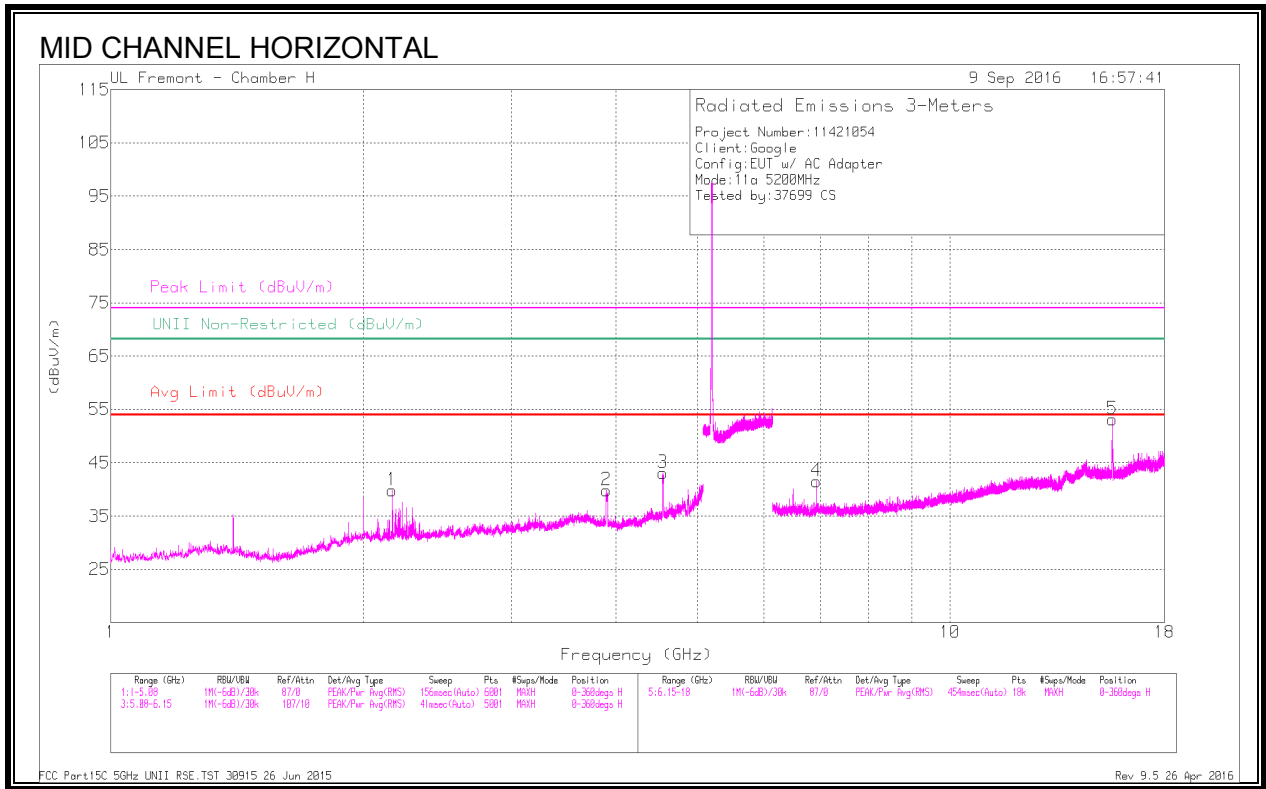
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.882	49.64	PK-U	33.7	-35.6	47.74	-	-	74	-26.26	-	-	106	328	H
	* 3.892	41.26	ADR	33.6	-35.5	39.36	54	-14.64	-	-	-	-	106	328	H
2	* 4.535	50.42	PK-U	33.9	-34.9	49.42	-	-	74	-24.58	-	-	66	116	H
	* 4.54	42.29	ADR	33.9	-34.9	41.29	54	-12.71	-	-	-	-	66	116	H
3	* 15.539	45.59	PK-U	40.2	-26	59.79	-	-	74	-14.21	-	-	92	106	H
	* 15.541	35.34	ADR	40.2	-26	49.54	54	-4.46	-	-	-	-	92	106	H
4	* 15.54	41.81	PK-U	40.2	-26	56.01	-	-	74	-17.99	-	-	356	109	V
	* 15.538	32.29	ADR	40.2	-26	46.49	54	-7.51	-	-	-	-	356	109	V
5	6.472	43.4	PK-U	35.7	-32.1	47	-	-	-	-	68.2	-21.2	51	111	H
6	6.907	42.77	PK-U	35.8	-31.7	46.87	-	-	-	-	68.2	-21.33	94	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

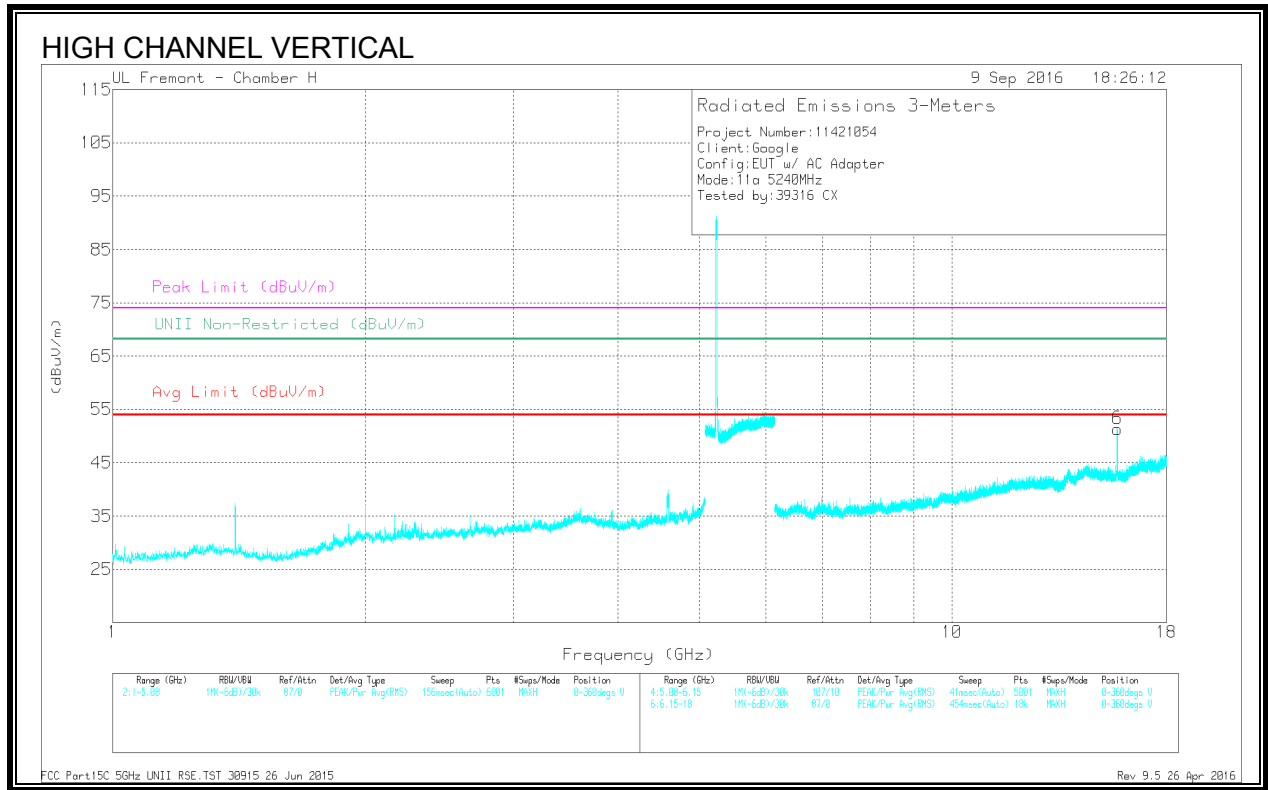
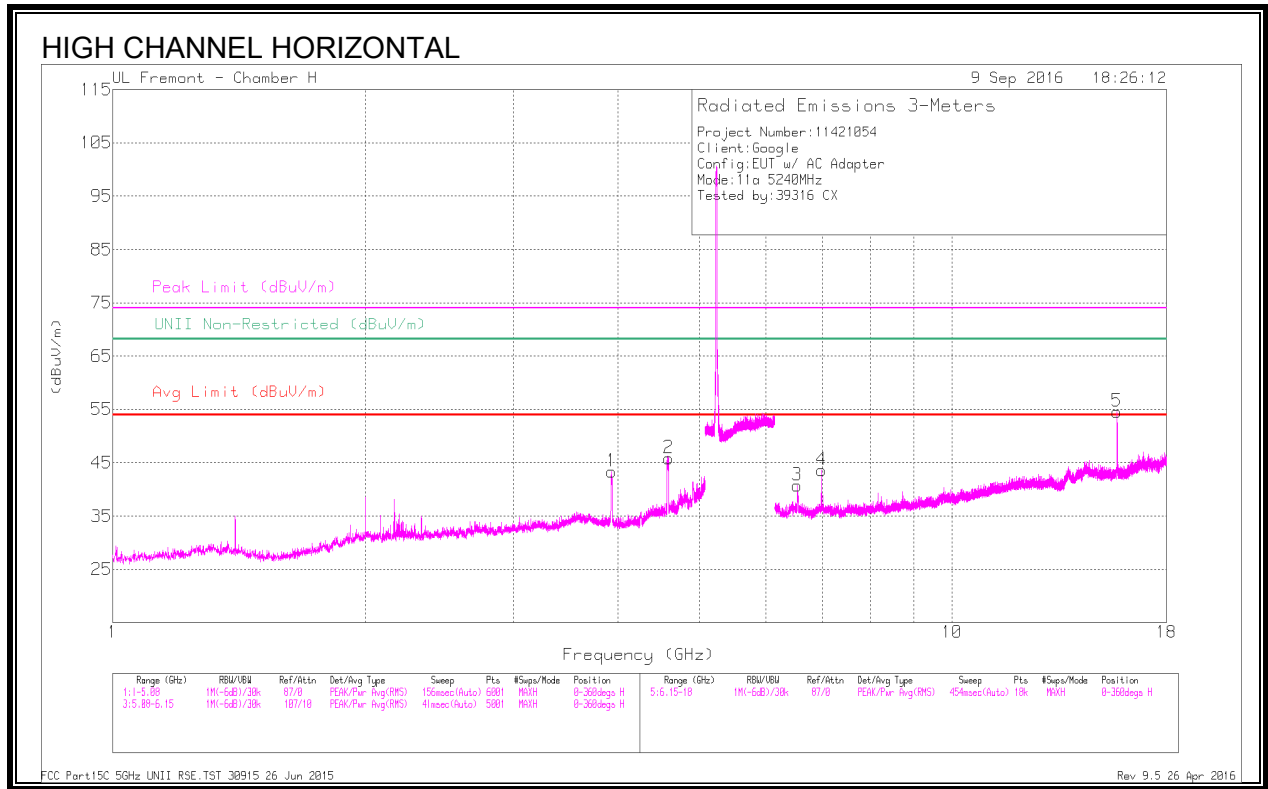


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Amp/Cb/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 3.905	47.33	PK-U	33.6	-35.5	45.43	-	-	74	-28.57	-	-	98	100	H
	* 3.902	38.5	ADR	33.6	-35.5	36.6	54	-17.4	-	-	-	-	98	100	H
3	* 4.543	49.6	PK-U	33.9	-35	48.5	-	-	74	-25.5	-	-	93	107	H
	* 4.543	41.57	ADR	33.9	-35	40.47	54	-13.53	-	-	-	-	93	107	H
5	* 15.609	44	PK-U	40.3	-26	58.3	-	-	74	-15.7	-	-	92	102	H
	* 15.599	34.31	ADR	40.3	-26.1	48.51	54	-5.49	-	-	-	-	92	102	H
6	* 15.599	43.83	PK-U	40.3	-26.1	58.03	-	-	74	-15.97	-	-	349	100	V
	* 15.596	33.04	ADR	40.3	-26.1	47.24	54	-6.76	-	-	-	-	349	100	V
1	2.167	56.75	PK-U	31.6	-38.1	50.25	-	-	-	-	68.2	-17.95	10	244	H
4	6.933	44.19	PK-U	35.8	-31.6	48.39	-	-	-	-	68.2	-19.61	88	112	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

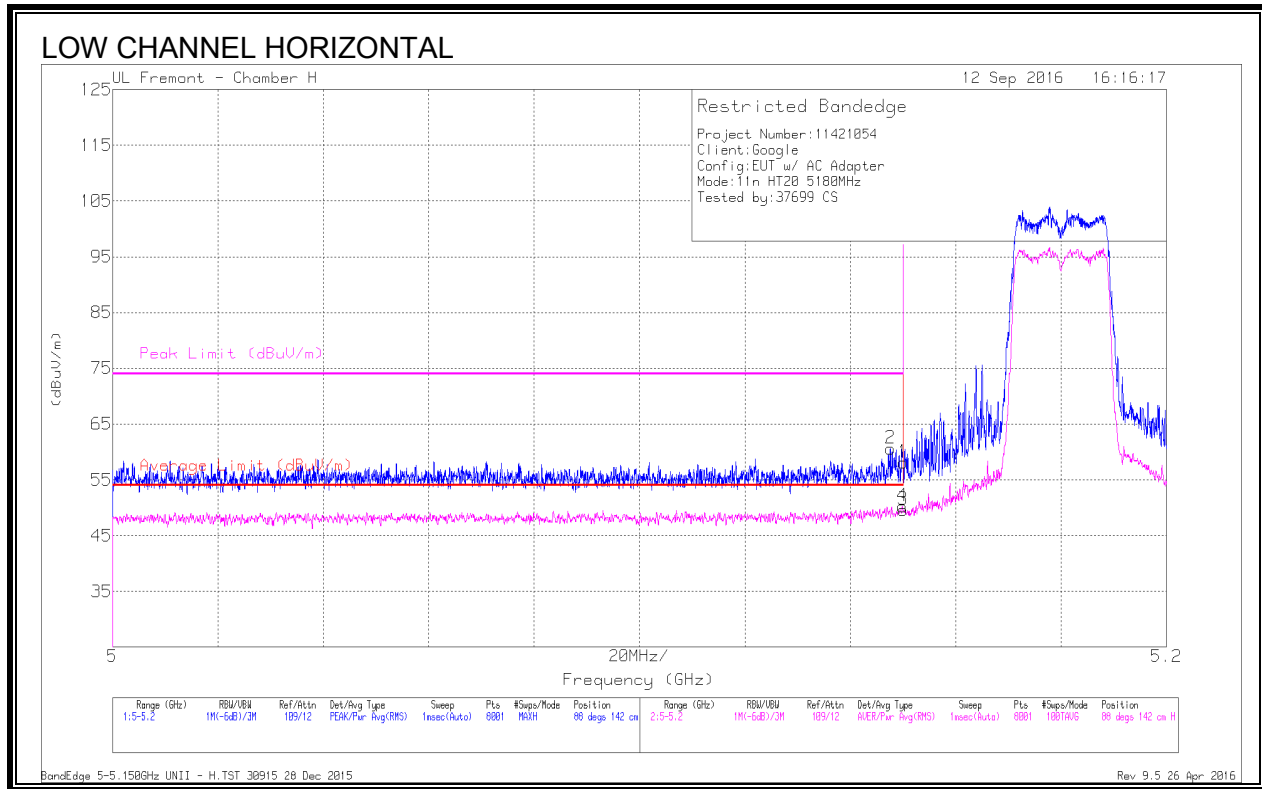


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/CbI/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.932	49.83	PK-U	33.6	-35.7	47.73	-	-	74	-26.27	-	-	106	186	H
	* 3.933	40.12	ADR	33.6	-35.7	38.02	54	-15.98	-	-	-	-	106	186	H
2	* 4.583	50.12	PK-U	34	-34.8	49.32	-	-	74	-24.68	-	-	97	110	H
	* 4.592	41.96	ADR	34	-34.7	41.26	54	-12.74	-	-	-	-	97	110	H
5	* 15.716	46.55	PK-U	40.3	-25.9	60.95	-	-	74	-13.05	-	-	89	104	H
	* 15.724	36.24	ADR	40.3	-25.8	50.74	54	-3.26	-	-	-	-	89	104	H
6	* 15.725	44.39	PK-U	40.3	-25.8	58.89	-	-	74	-15.11	-	-	350	100	V
	* 15.718	33.95	ADR	40.3	-25.9	48.35	54	-5.65	-	-	-	-	350	100	V
3	6.553	41.37	PK-U	35.7	-31.8	45.27	-	-	-	-	68.2	-22.93	73	237	H
4	6.987	45.07	PK-U	35.7	-31.4	49.57	-	-	-	-	68.2	-18.83	93	107	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

9.1.2. 11n HT20 MODE IN THE 5.2GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

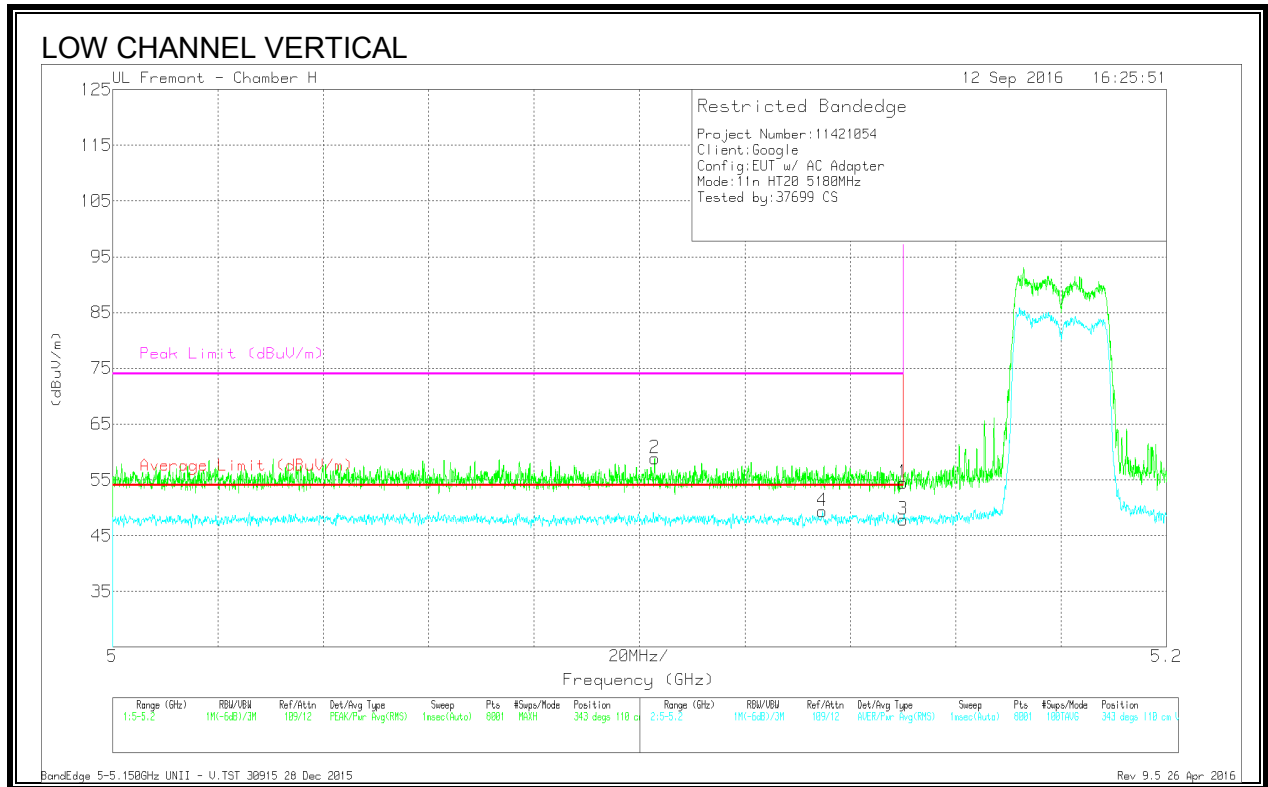


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.148	42.78	Pk	34.3	-16.4	60.68	-	-	74	-13.32	88	142	H
4	* 5.15	32.41	RMS	34.3	-16.4	50.31	54	-3.69	-	-	88	142	H
1	5.15	40.19	Pk	34.3	-16.4	58.09	-	-	74	-15.91	88	142	H
3	5.15	31.75	RMS	34.3	-16.4	49.65	54	-4.35	-	-	88	142	H

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

Pk - Peak detector

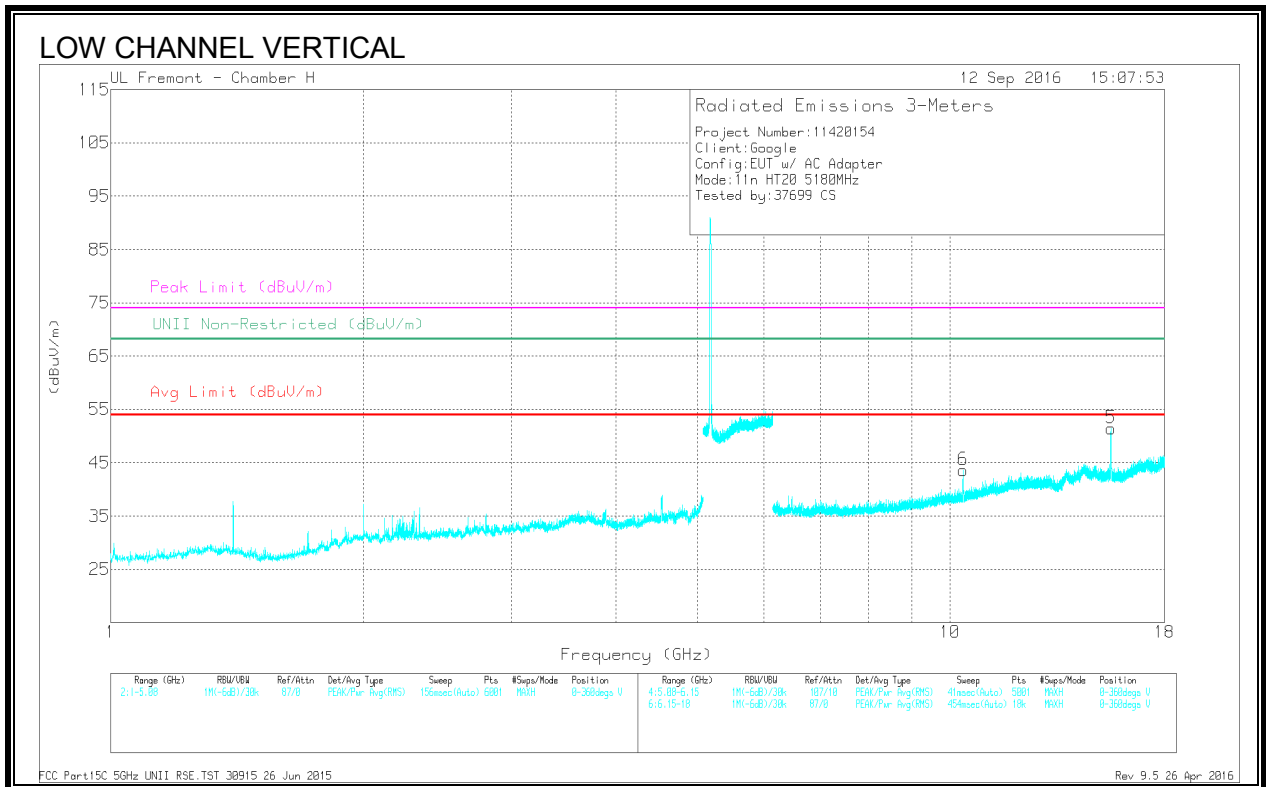
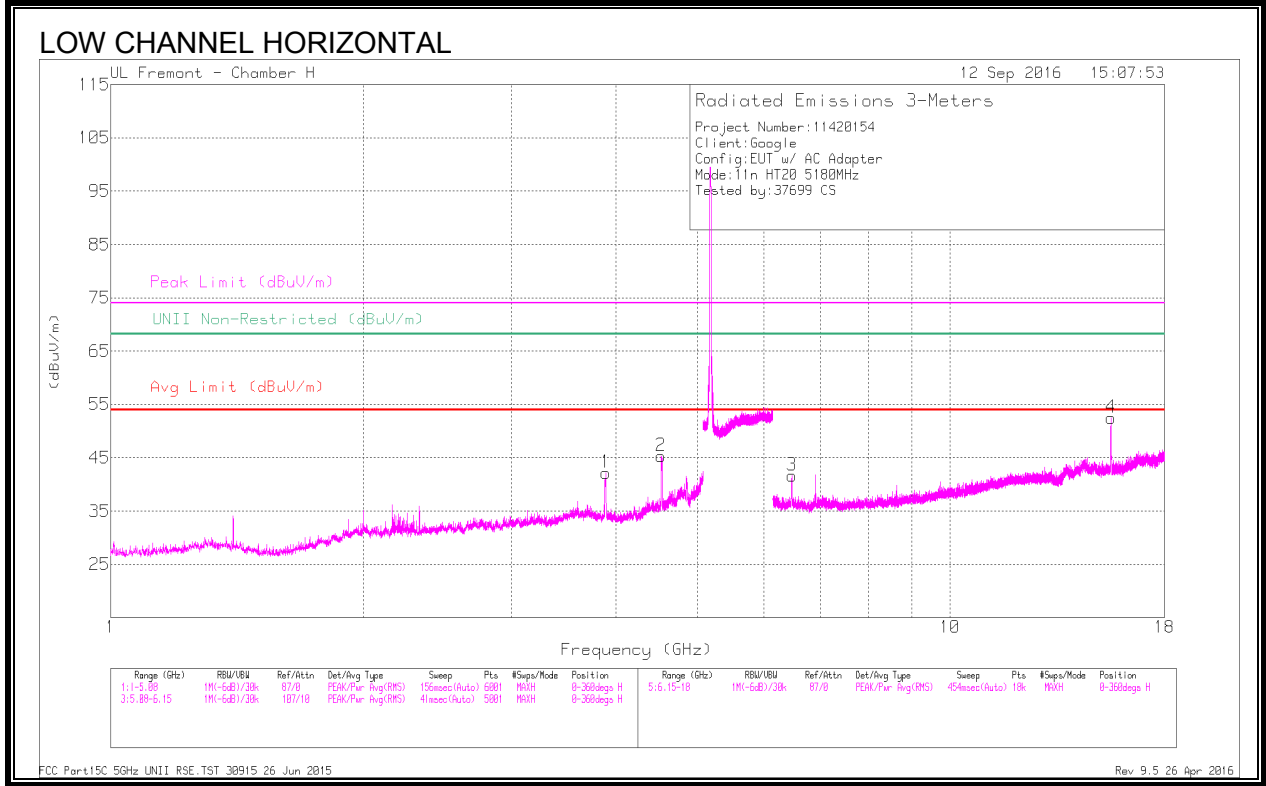
RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.103	41.24	Pk	34.1	-16.5	58.84	-	-	74	-15.16	343	110	V
4	* 5.135	31.54	RMS	34.2	-16.4	49.34	54	-4.66	-	-	343	110	V
1	5.15	36.66	Pk	34.3	-16.4	54.56	-	-	74	-19.44	343	110	V
3	5.15	30.04	RMS	34.3	-16.4	47.94	54	-6.06	-	-	343	110	V

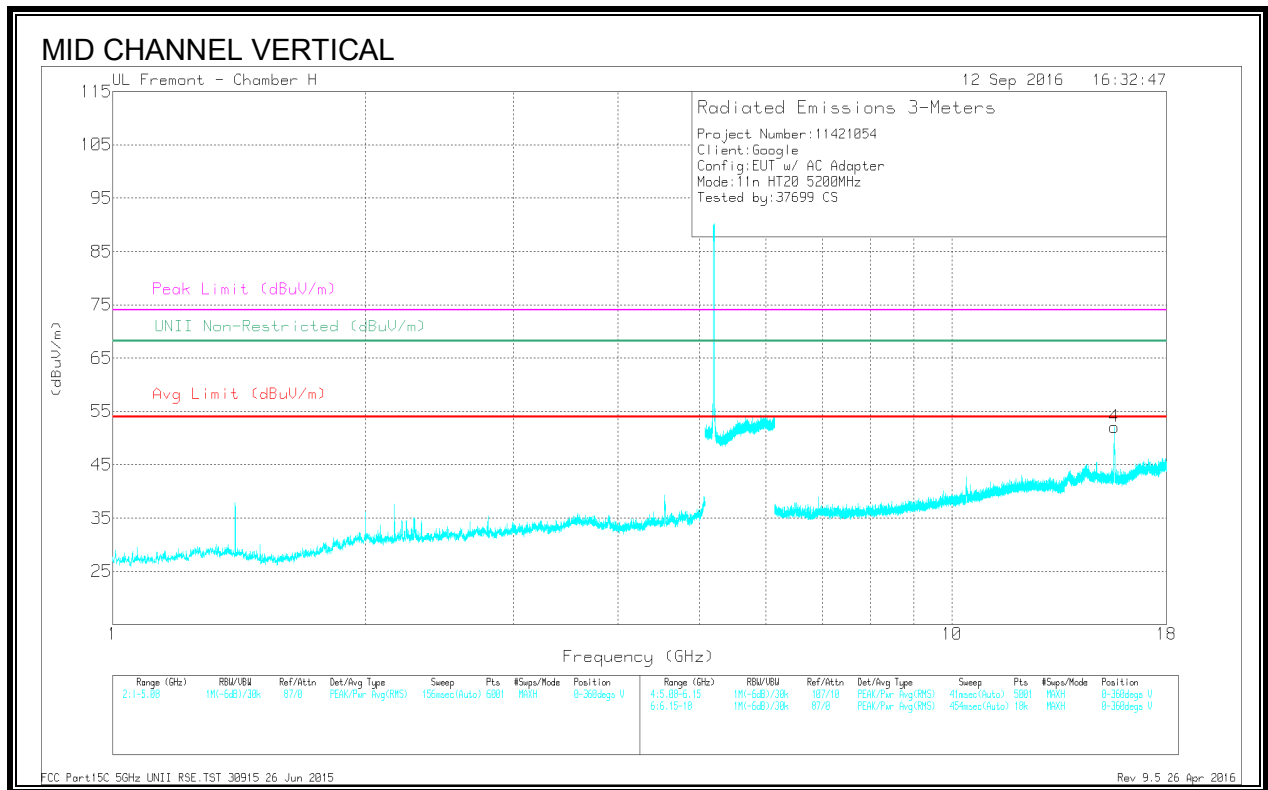
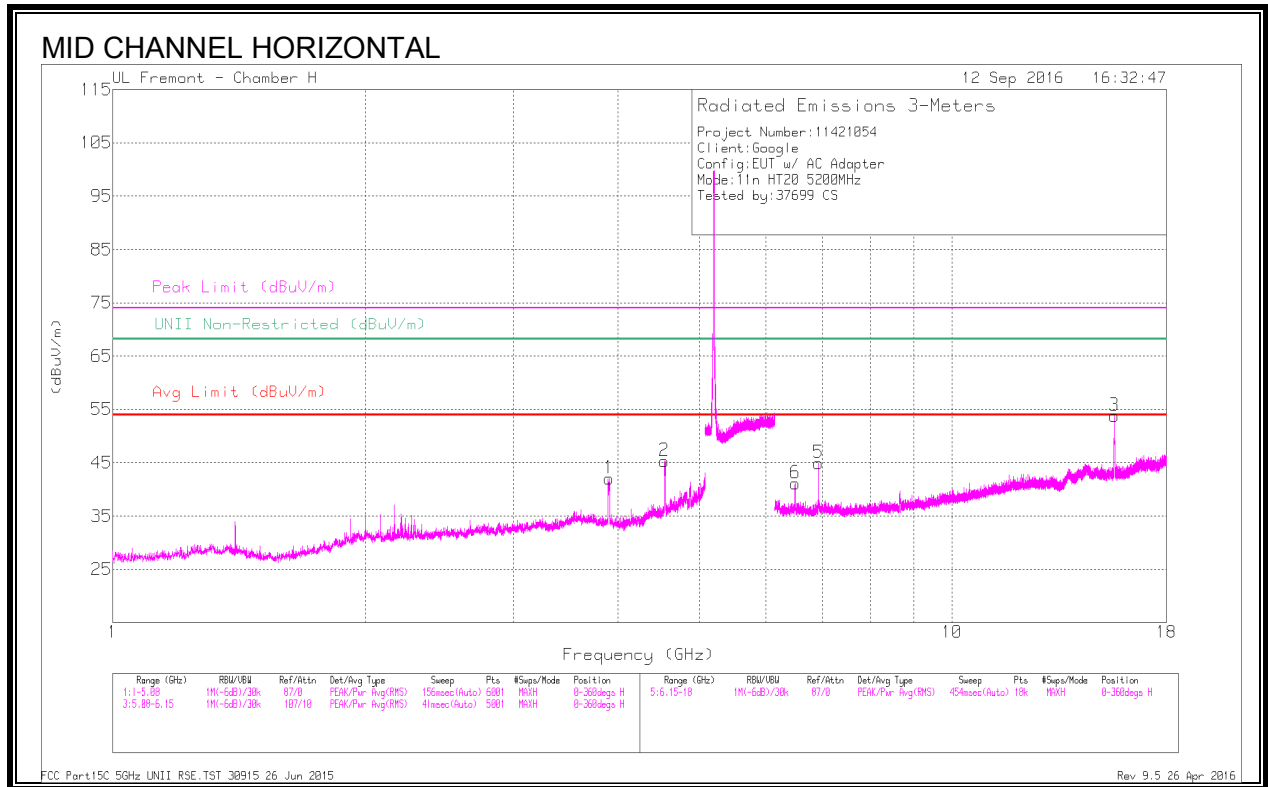
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS



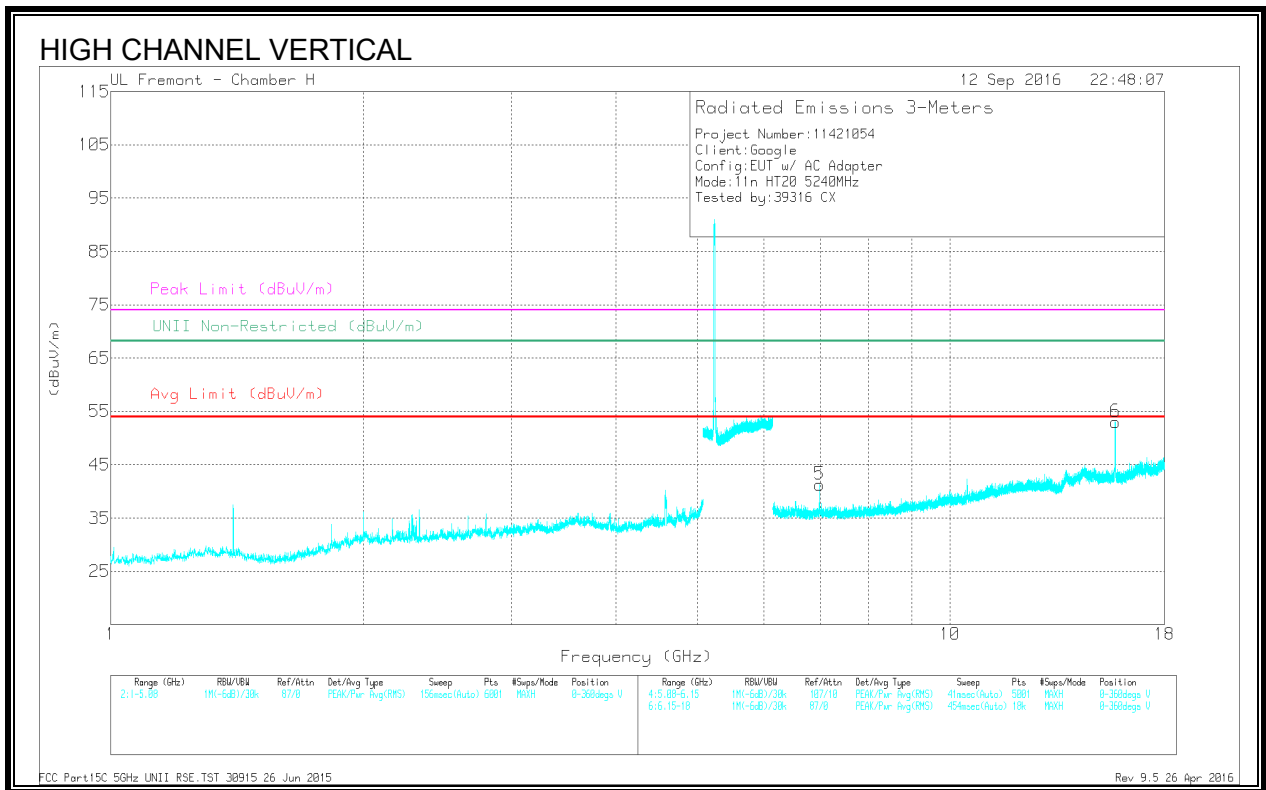
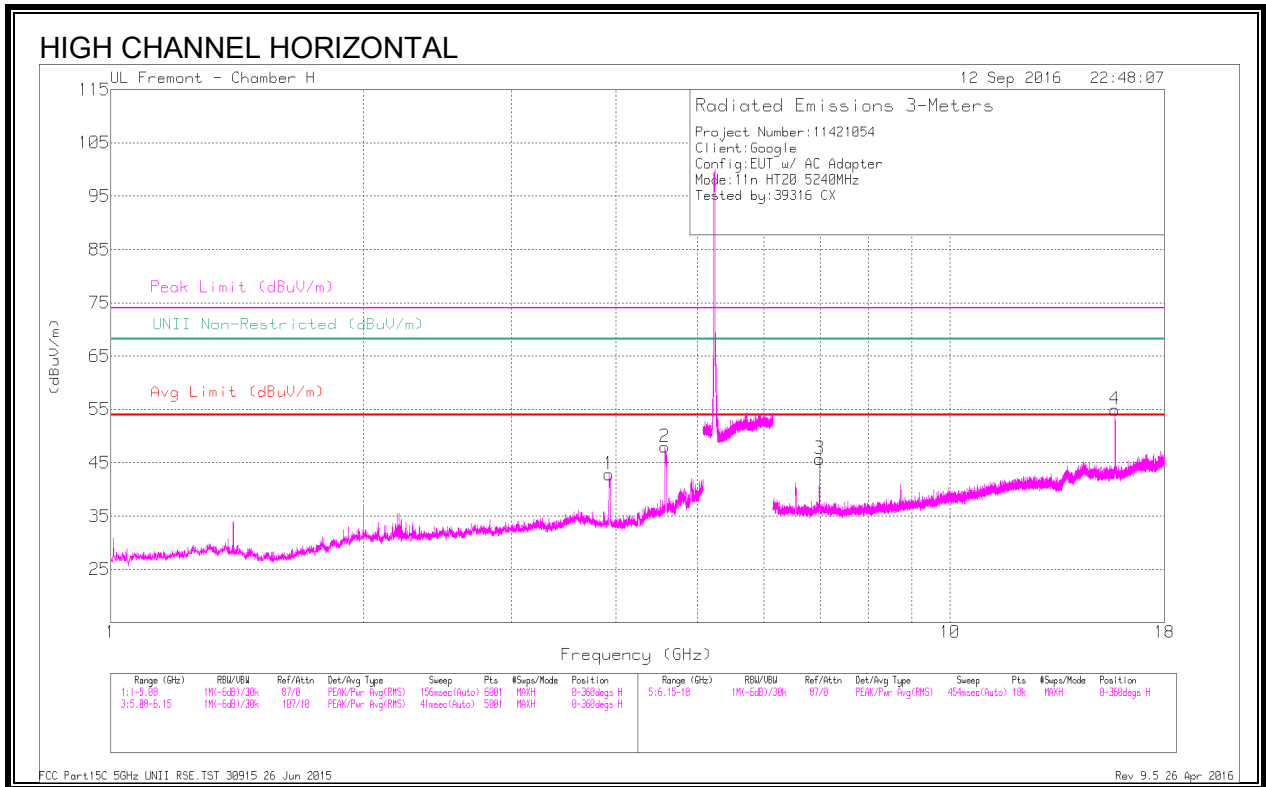
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBim)	Ampl/Cbll/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.893	49.52	PK-U	33.6	-35.5	47.62	-	-	74	-26.38	-	-	103	110	H
	* 3.893	41.29	ADR	33.6	-35.5	39.39	54	-14.61	-	-	-	-	103	110	H
2	* 4.525	52.51	PK-U	33.8	-34.8	51.51	-	-	74	-22.49	-	-	61	104	H
	* 4.525	43.64	ADR	33.8	-34.8	42.64	54	-11.36	-	-	-	-	61	104	H
4	* 15.541	45.04	PK-U	40.2	-26	59.24	-	-	74	-14.76	-	-	75	101	H
	* 15.535	35.33	ADR	40.2	-26	49.53	54	-4.47	-	-	-	-	75	101	H
5	* 15.54	43.18	PK-U	40.2	-26	57.38	-	-	74	-16.62	-	-	339	108	V
	* 15.543	33.2	ADR	40.2	-26	47.4	54	-6.6	-	-	-	-	339	108	V
3	6.482	43.88	PK-U	35.7	-32.1	47.48	-	-	-	-	68.2	-20.72	44	117	H
6	10.359	42.35	PK-U	37.7	-29.4	50.65	-	-	-	-	68.2	-17.55	87	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



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Amp/Cbl/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.907	50.3	PK-U	33.6	-35.5	48.4	-	-	74	-25.6	-	-	87	108	H
	* 3.908	41.98	ADR	33.6	-35.5	40.08	54	-13.92	-	-	-	-	87	108	H
2	* 4.547	52.54	PK-U	33.9	-35	51.44	-	-	74	-22.56	-	-	68	108	H
	* 4.542	43.77	ADR	33.9	-35	42.67	54	-11.33	-	-	-	-	68	108	H
3	* 15.6	45.67	PK-U	40.3	-26.1	59.87	-	-	74	-14.13	-	-	76	100	H
	* 15.603	36.12	ADR	40.3	-26	50.42	54	-3.58	-	-	-	-	76	100	H
4	* 15.606	45	PK-U	40.3	-26	59.3	-	-	74	-14.7	-	-	339	101	V
	* 15.603	34.72	ADR	40.3	-26	49.02	54	-4.98	-	-	-	-	339	101	V
6	6.508	43.22	PK-U	35.7	-32.1	46.82	-	-	-	-	68.2	-21.38	51	132	H
5	6.933	45.31	PK-U	35.8	-31.6	49.51	-	-	-	-	68.2	-18.69	78	121	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



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.938	49.3	PK-U	33.5	-35.6	47.2	-	-	74	-26.8	-	-	93	129	H
	* 3.922	40.8	ADR	33.6	-35.6	38.8	54	-15.2	-	-	-	-	93	129	H
2	* 4.592	52.58	PK-U	34	-34.7	51.88	-	-	74	-22.12	-	-	65	101	H
	* 4.592	43.82	ADR	34	-34.7	43.12	54	-10.88	-	-	-	-	65	101	H
4	* 15.718	46.83	PK-U	40.3	-25.9	61.23	-	-	74	-12.77	-	-	80	100	H
	* 15.725	36.08	ADR	40.3	-25.8	50.58	54	-3.42	-	-	-	-	80	100	H
6	* 15.724	44.96	PK-U	40.3	-25.8	59.46	-	-	74	-14.54	-	-	343	100	V
	* 15.718	34.69	ADR	40.3	-25.9	49.09	54	-4.91	-	-	-	-	343	100	V
3	6.986	45.53	PK-U	35.7	-31.4	49.83	-	-	-	-	68.2	-18.37	84	100	H
5	6.987	42.67	PK-U	35.7	-31.4	47.17	-	-	-	-	68.2	-21.03	266	102	V

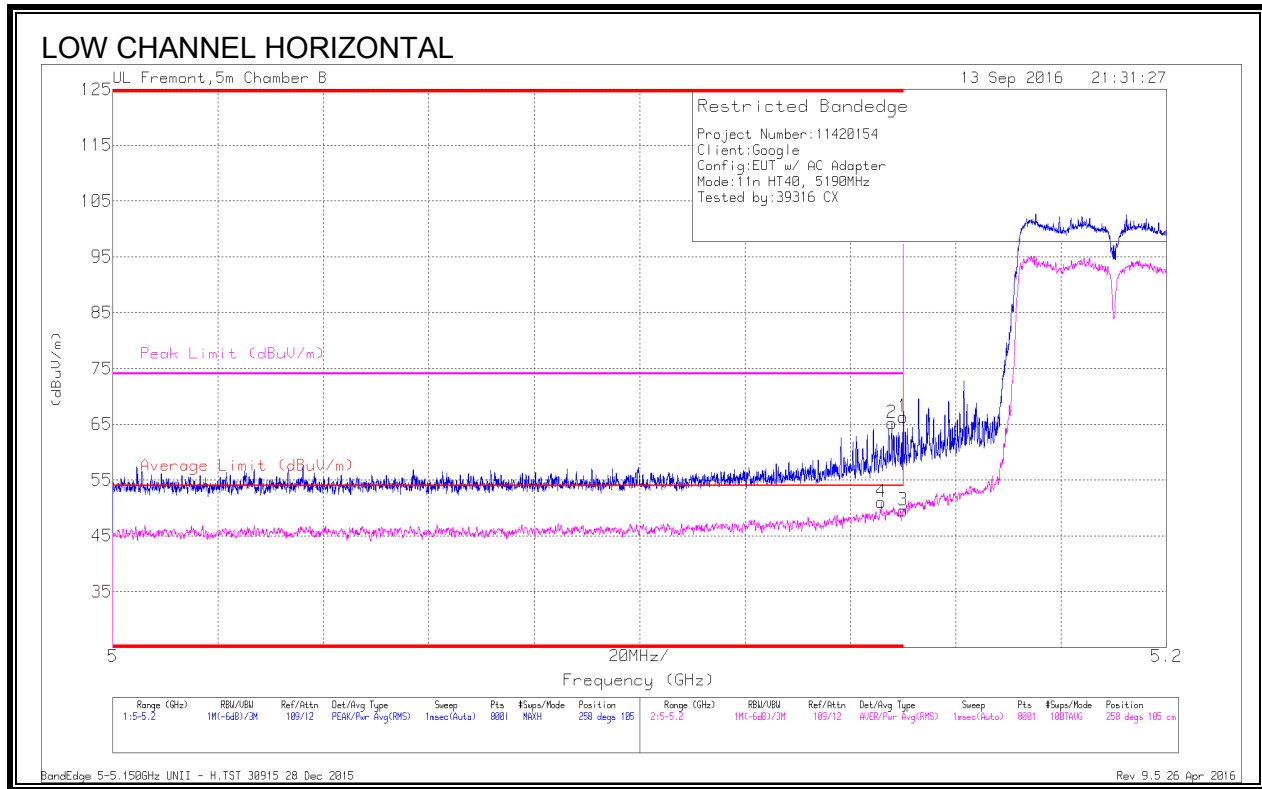
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

9.1.3. 11n HT40 MODE IN THE 5.2GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

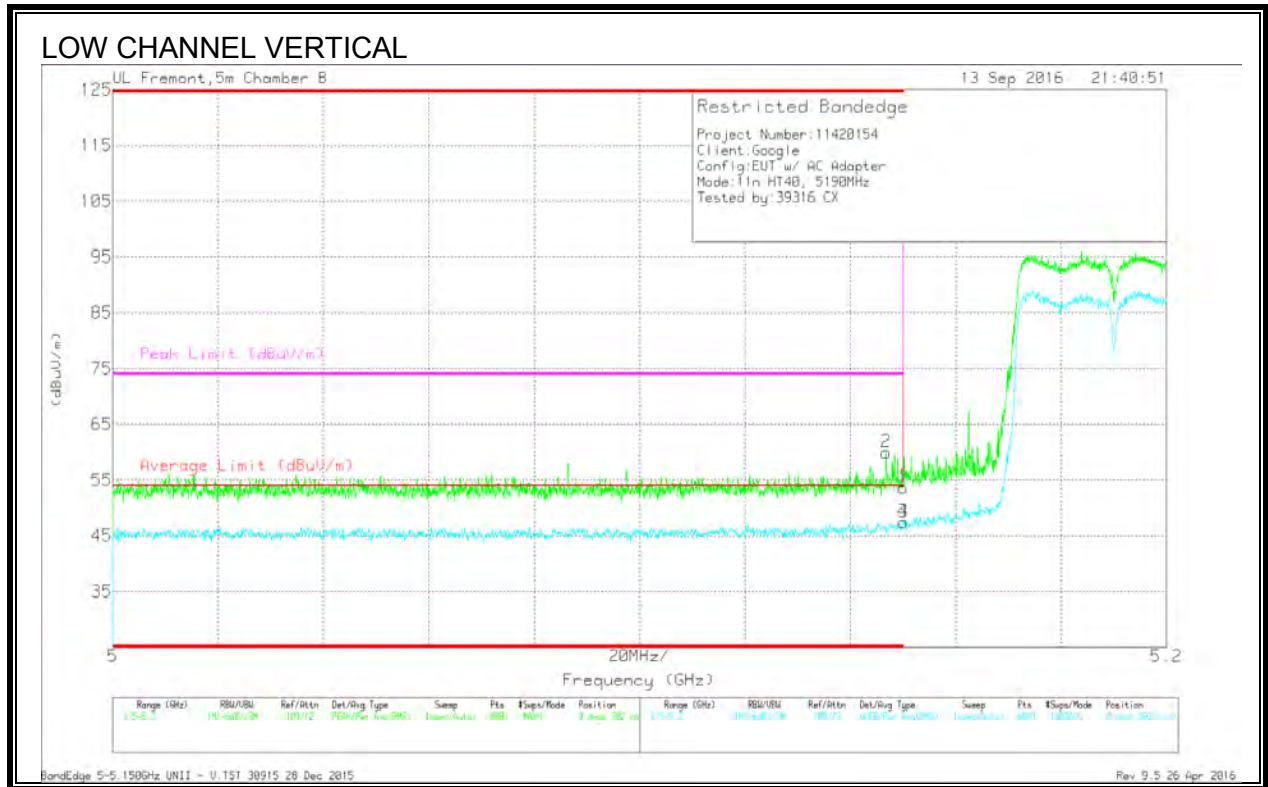


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.148	50.48	Pk	34.2	-19.5	65.18	-	-	74	-8.82	258	105	H
4	* 5.146	36.5	RMS	34.2	-19.7	51	54	-3	-	-	258	105	H
1	5.15	52.05	Pk	34.2	-19.9	66.35	-	-	74	-7.65	258	105	H
3	5.15	35.24	RMS	34.2	-19.9	49.54	54	-4.46	-	-	258	105	H

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

Pk - Peak detector

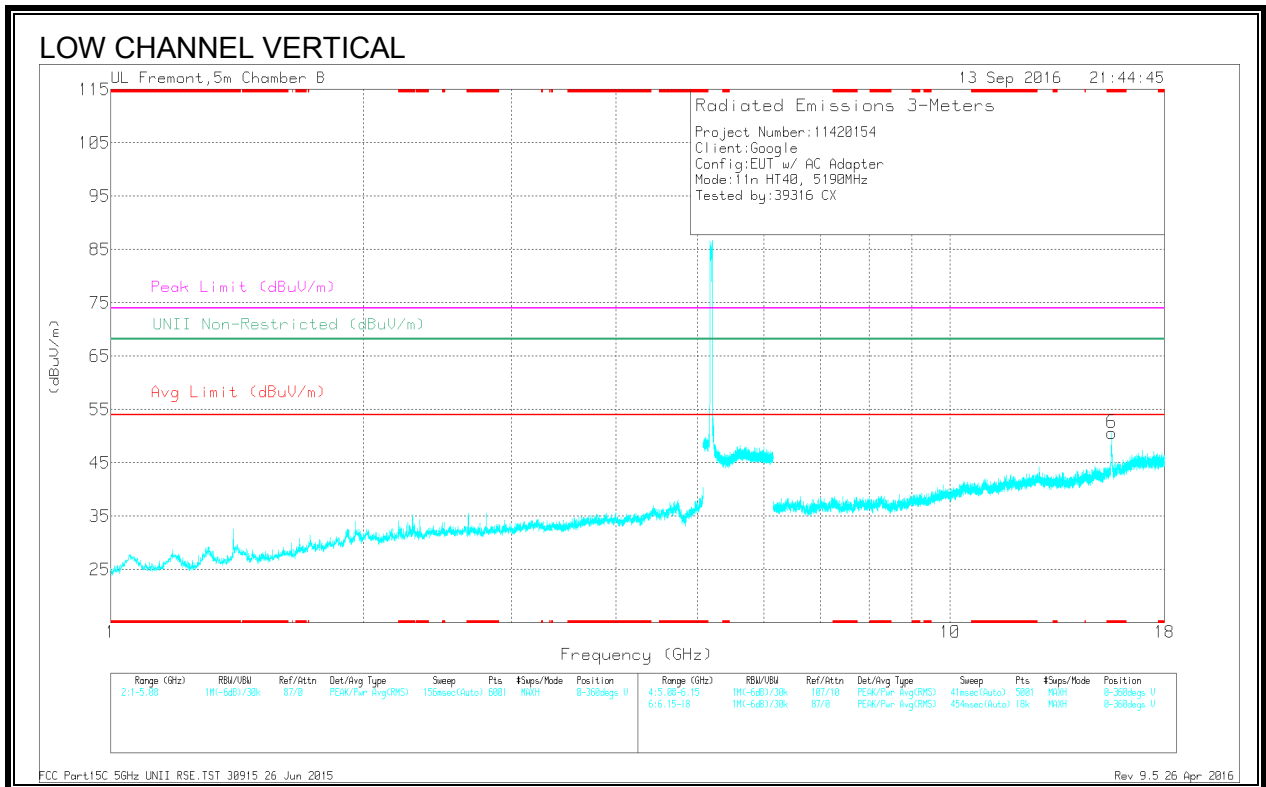
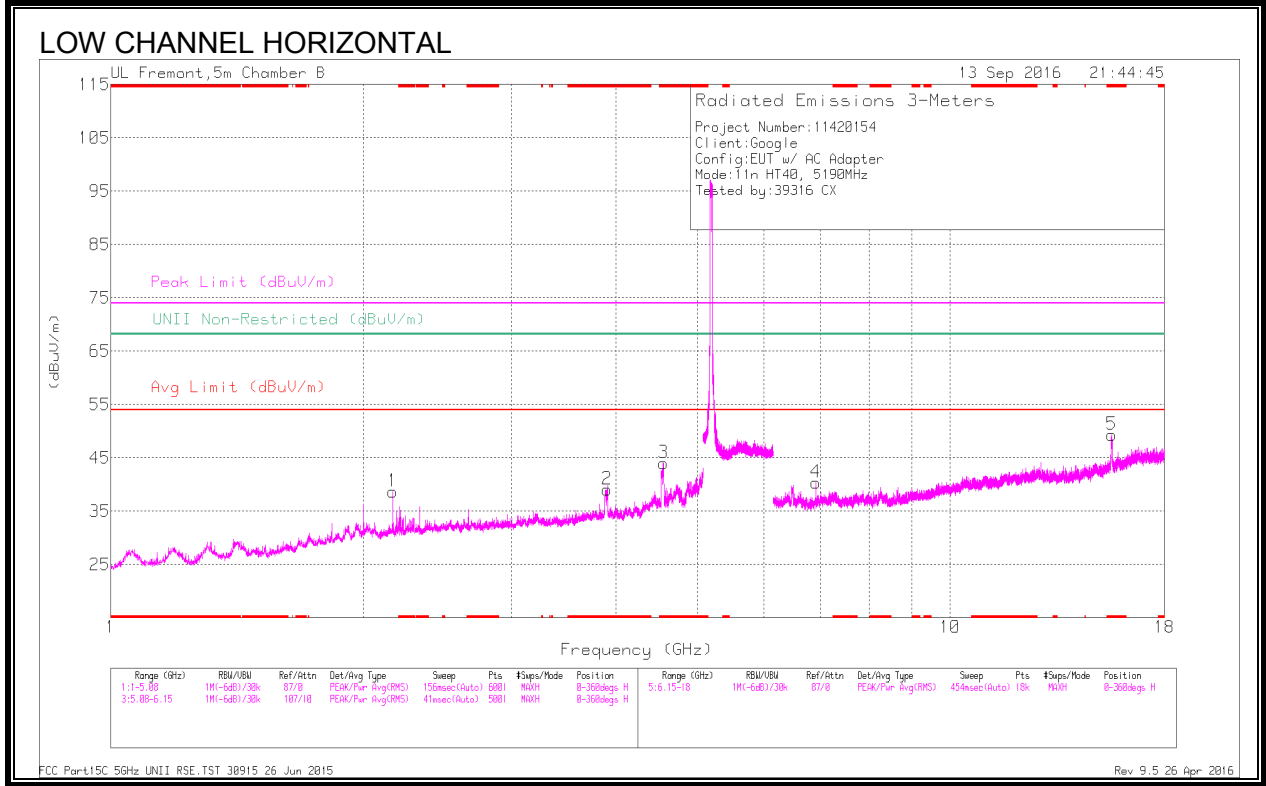
RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.147	45.32	Pk	34.2	-19.6	59.92	-	-	74	-14.08	0	382	V
4	* 5.15	33.1	RMS	34.2	-19.9	47.4	54	-6.6	-	-	0	382	V
1	5.15	39.35	Pk	34.2	-19.9	53.65	-	-	74	-20.35	0	382	V
3	5.15	33.12	RMS	34.2	-19.9	47.42	54	-6.58	-	-	0	382	V

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

HARMONICS AND SPURIOUS EMISSIONS

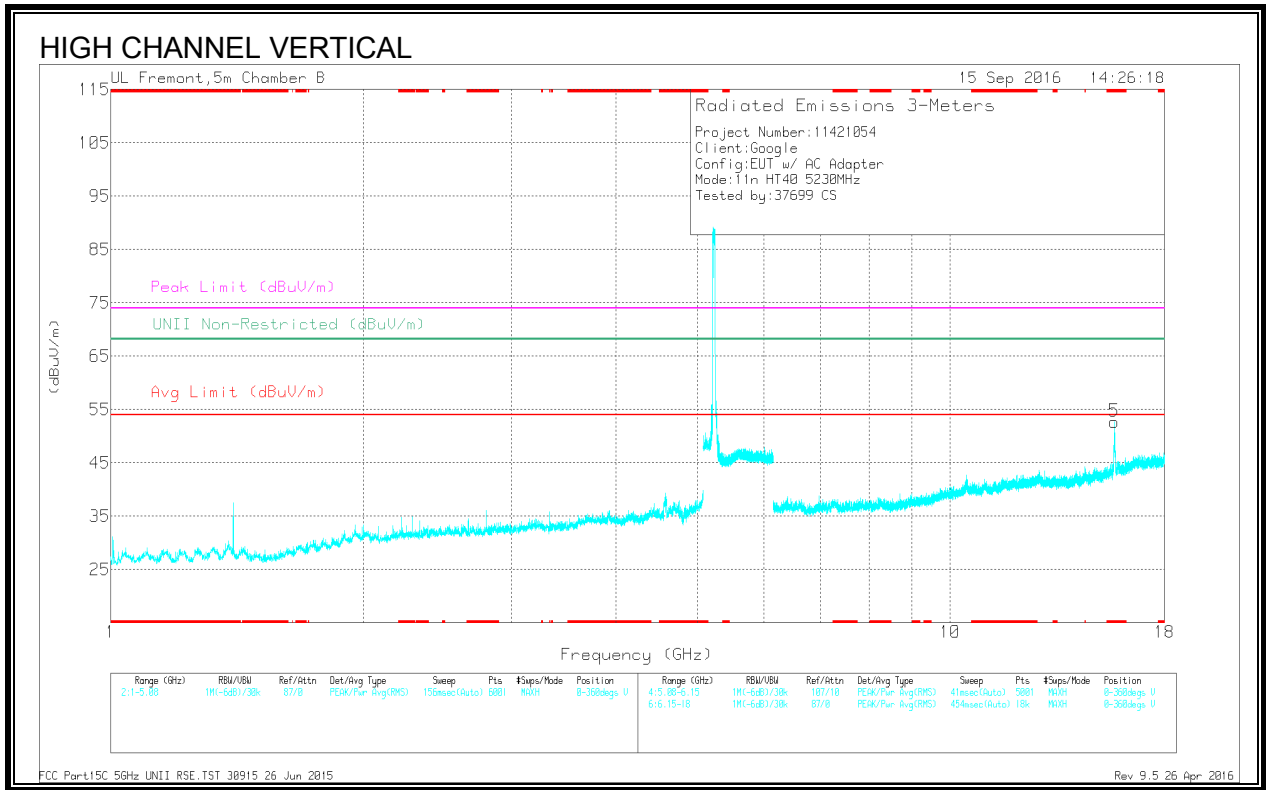
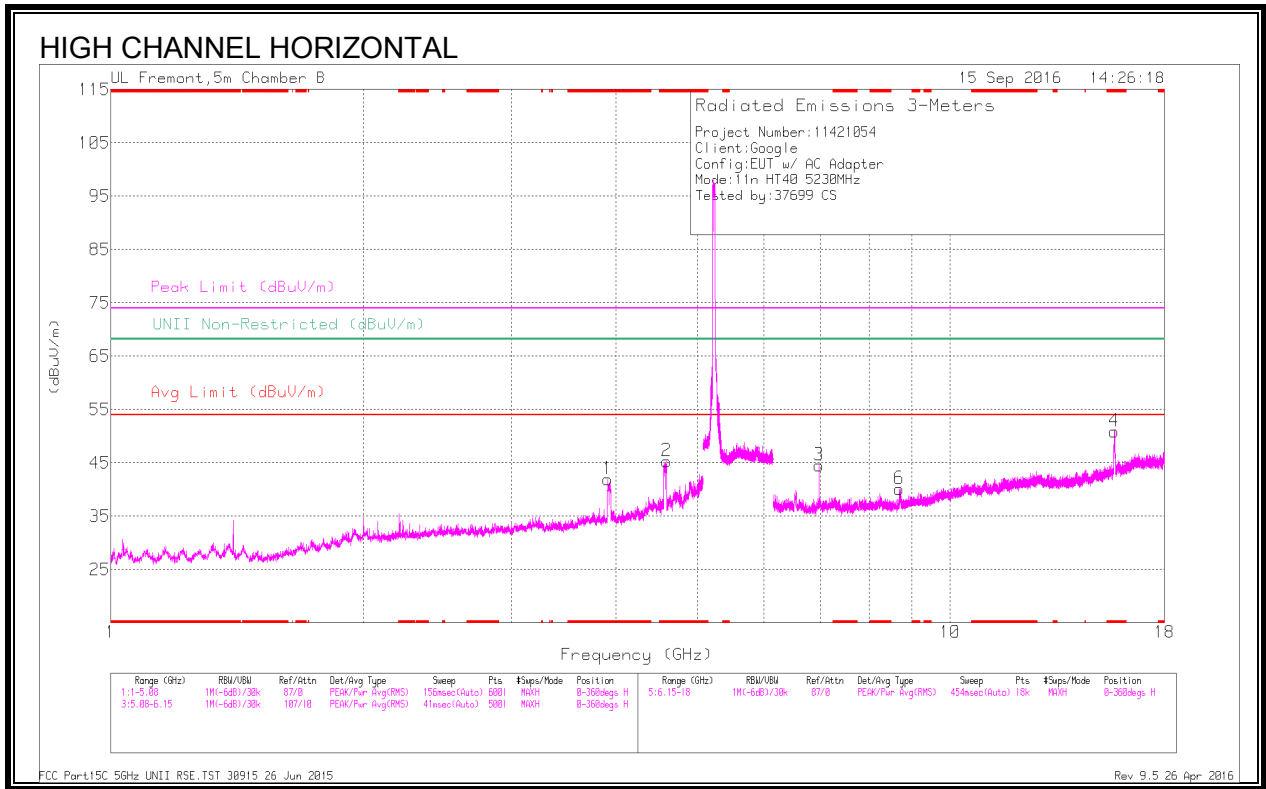


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 3.898	45.01	PK-U	33.3	-32.9	45.41	-	-	74	-28.59	-	-	275	218	H
	* 3.908	36.51	ADR	33.3	-32.8	37.01	54	-16.99	-	-	-	-	275	218	H
3	* 4.547	48.72	PK-U	34.1	-32.7	50.12	-	-	74	-23.88	-	-	235	118	H
	* 4.556	39.98	ADR	34.1	-32.8	41.28	54	-12.72	-	-	-	-	235	118	H
5	* 15.579	38.08	PK-U	40.3	-24.6	53.78	-	-	74	-20.22	-	-	305	105	H
	* 15.575	29.11	ADR	40.3	-24.5	44.91	54	-9.09	-	-	-	-	305	105	H
6	* 15.577	39.22	PK-U	40.3	-24.6	54.92	-	-	74	-19.08	-	-	182	124	V
	* 15.581	28.92	ADR	40.3	-24.6	44.62	54	-9.38	-	-	-	-	182	124	V
1	2.152	41.54	PK-U	31.4	-34.9	38.04	-	-	-	-	68.2	-30.16	211	322	H
4	6.92	42.1	PK-U	35.5	-31	46.6	-	-	-	-	68.2	-21.6	245	228	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



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.907	46.97	PK-U	33.3	-32.8	47.47	-	-	74	-26.53	-	-	278	214	H
	* 3.908	38.33	ADR	33.3	-32.8	38.83	54	-15.17	-	-	-	-	278	214	H
2	* 4.583	51.08	PK-U	34.1	-32.4	52.78	-	-	74	-21.22	-	-	264	112	H
	* 4.571	42.73	ADR	34.1	-32.6	44.23	54	-9.77	-	-	-	-	264	112	H
4	* 15.697	40.66	PK-U	40.4	-24.6	56.46	-	-	74	-17.54	-	-	306	107	H
	* 15.696	30.92	ADR	40.4	-24.7	46.62	54	-7.38	-	-	-	-	306	107	H
5	* 15.71	40.57	PK-U	40.5	-24.6	56.47	-	-	74	-17.53	-	-	150	102	V
	* 15.695	30.95	ADR	40.4	-24.7	46.65	54	-7.35	-	-	-	-	150	102	V
3	6.973	42.55	PK-U	35.5	-30.1	47.95	-	-	-	-	68.2	-20.25	185	115	H
6	8.731	39.79	PK-U	35.9	-28.6	47.09	-	-	-	-	68.2	-21.11	198	103	H

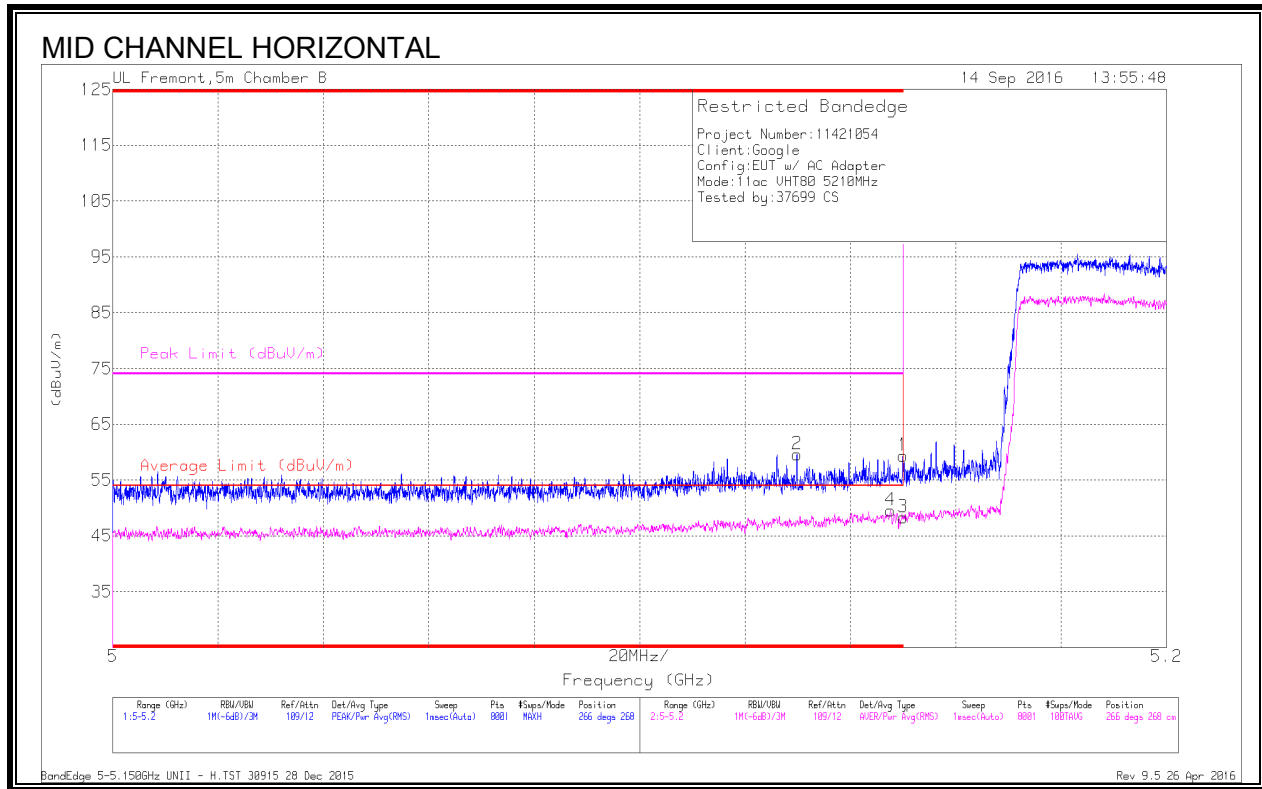
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

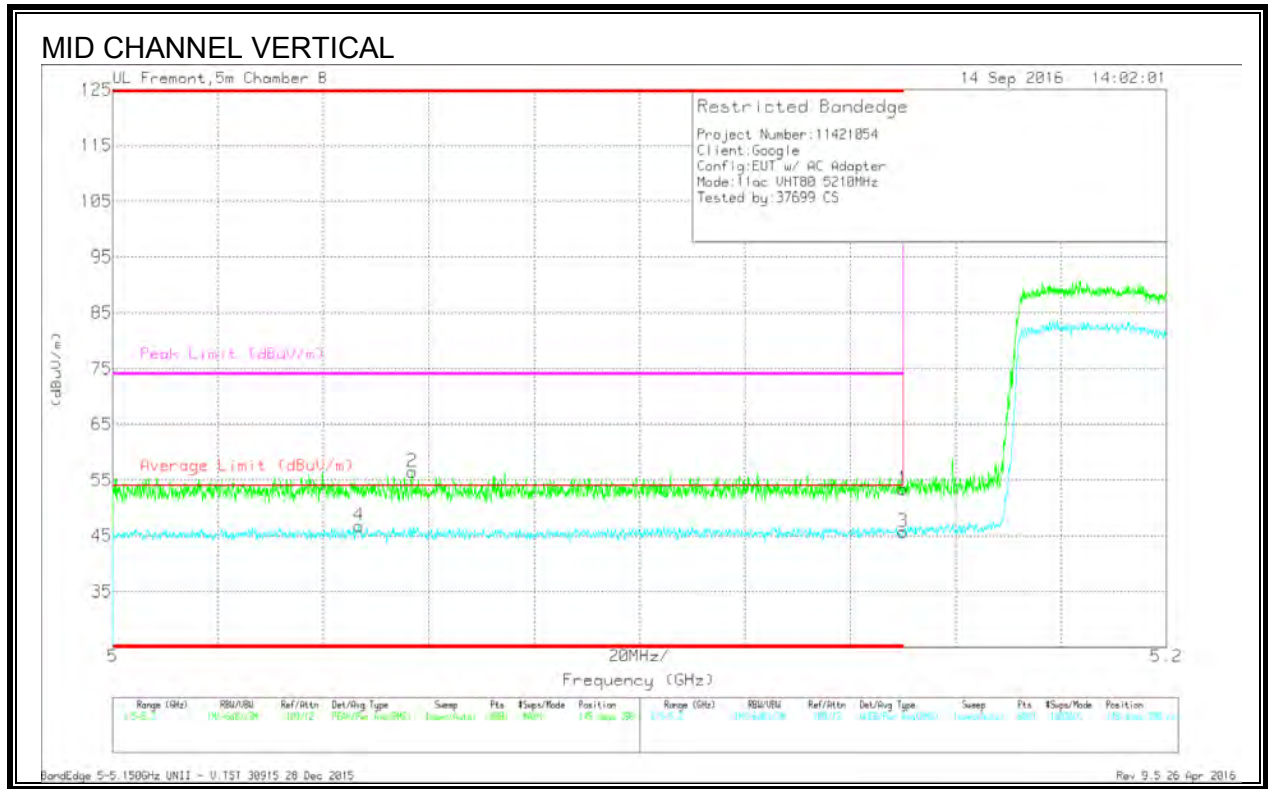
9.1.4. 11ac VHT80 MODE IN THE 5.2GHz BAND

RESTRICTED BANDEDGE (MID CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.13	44.92	Pk	34.2	-19.5	59.62	-	-	74	-14.38	266	268	H
4	* 5.148	34.83	RMS	34.2	-19.5	49.53	54	-4.47	-	-	266	268	H
1	5.15	45.04	Pk	34.2	-19.9	59.34	-	-	74	-14.66	266	268	H
3	5.15	33.97	RMS	34.2	-19.9	48.27	54	-5.73	-	-	266	268	H

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



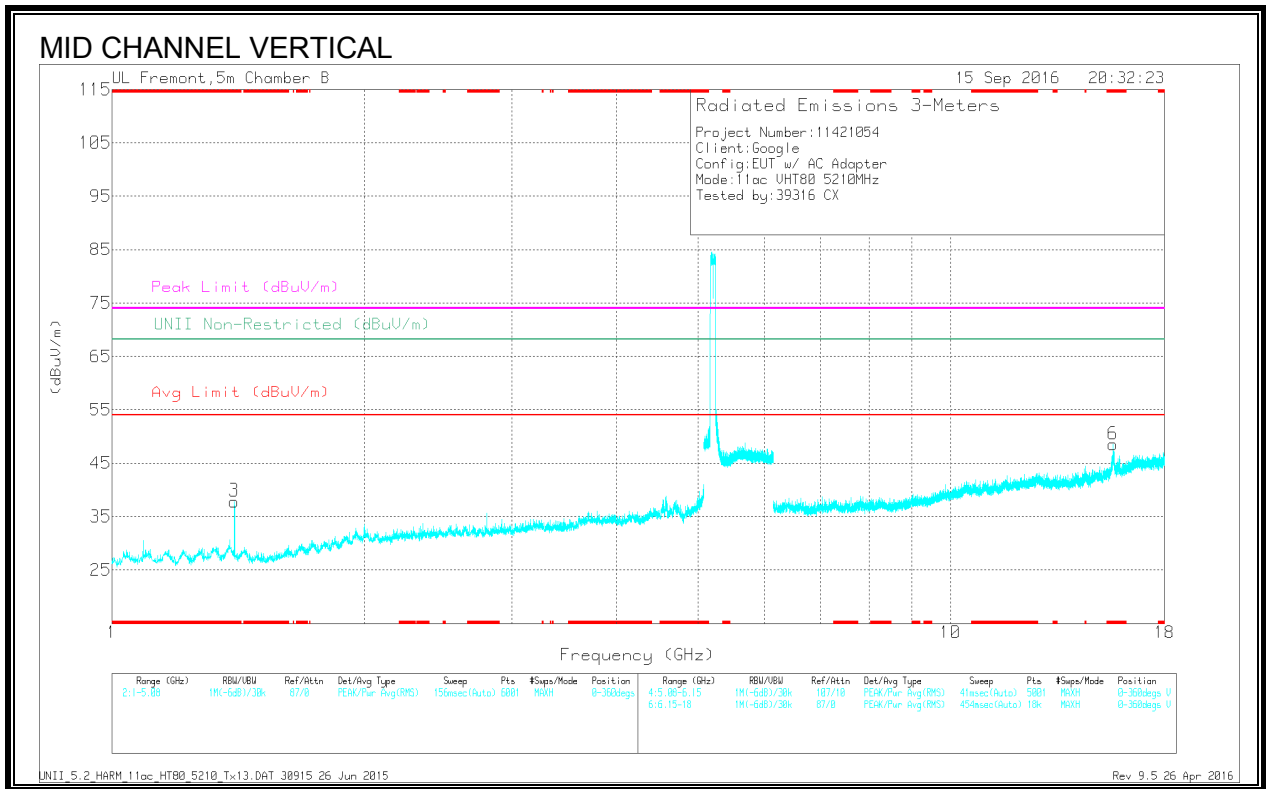
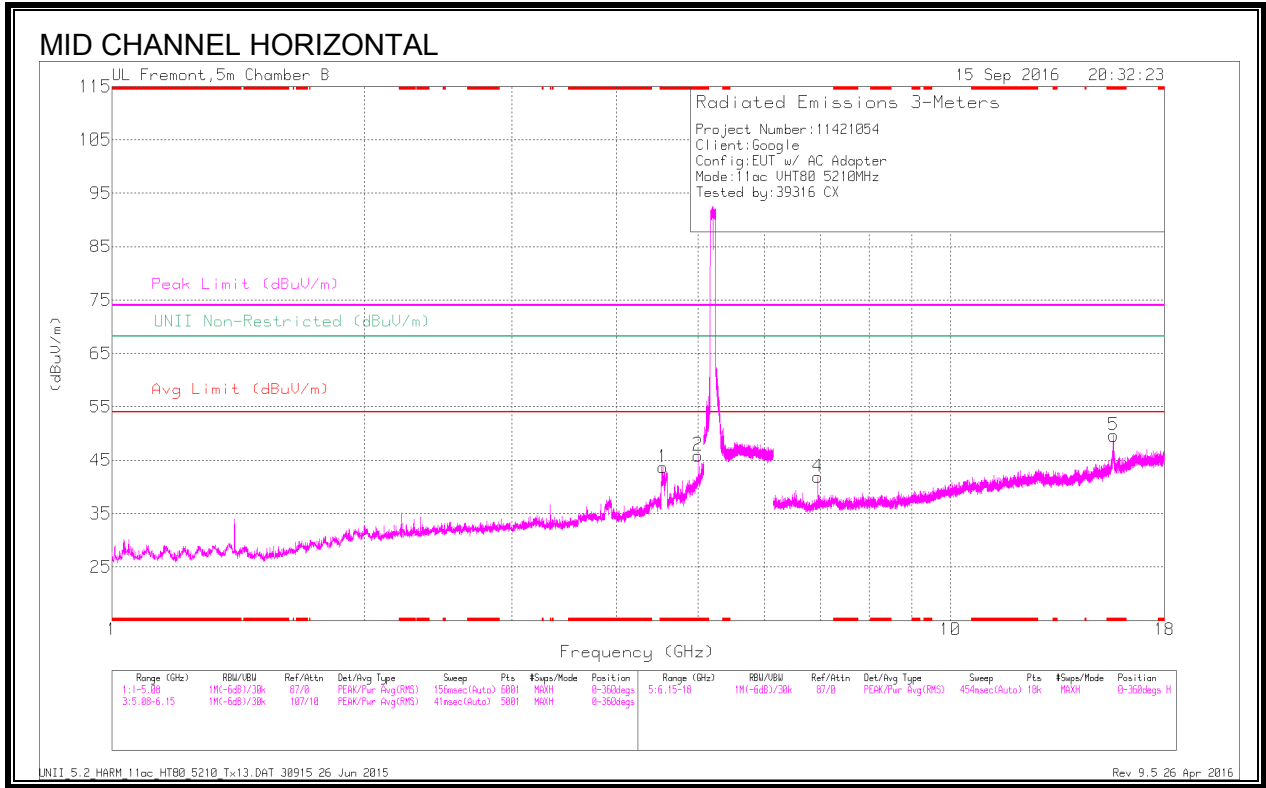
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.057	41.8	Pk	34.1	-19.4	56.5	-	-	74	-17.5	145	390	V
4	* 5.047	31.85	RMS	34.1	-19.1	46.85	54	-7.15	-	-	145	390	V
1	5.15	39.14	Pk	34.2	-19.9	53.44	-	-	74	-20.56	145	390	V
3	5.15	31.37	RMS	34.2	-19.9	45.67	54	-8.33	-	-	145	390	V

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

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

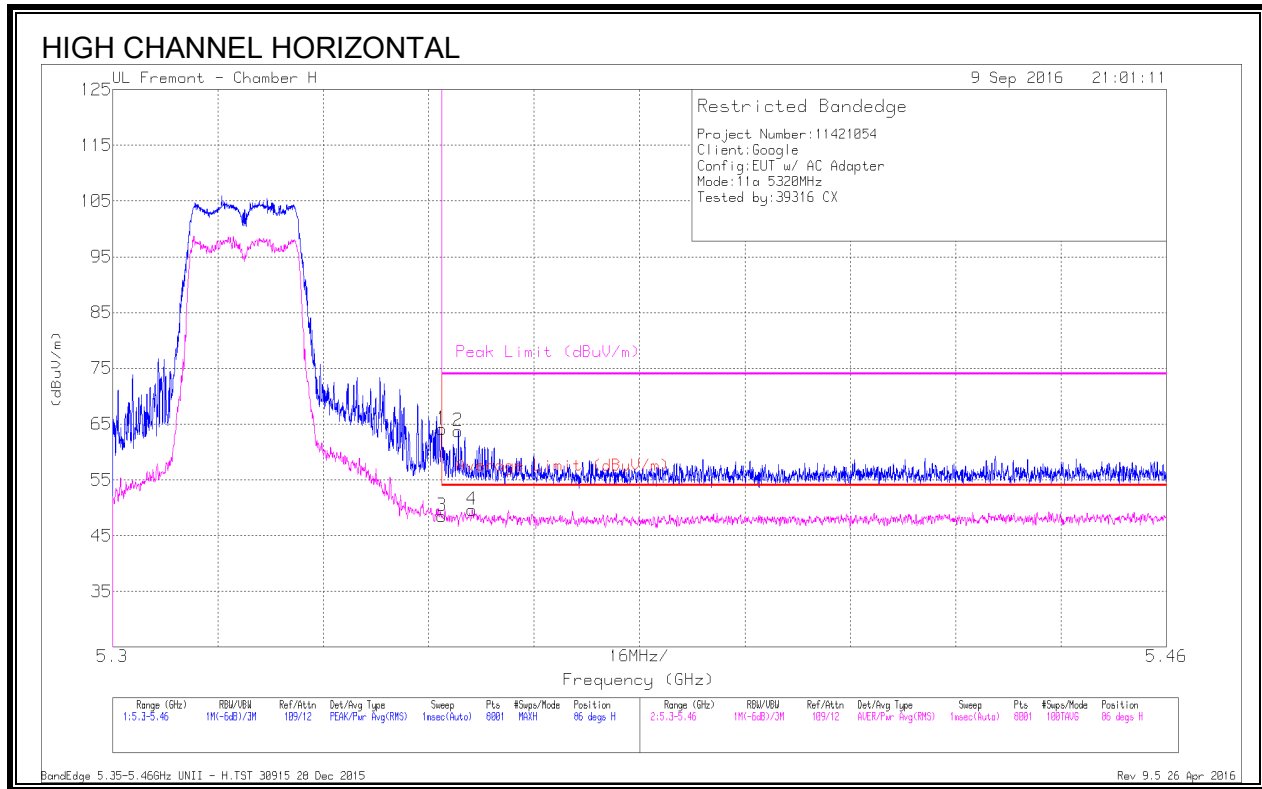


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	U-NII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.54	48.61	PK-U	34.1	-32.7	50.01	-	-	74	-23.99	-	-	261	305	H
	* 4.531	39.61	ADR	34.1	-32.6	41.11	54	-12.89	-	-	-	-	261	305	H
2	* 4.999	48.99	PK-U	34.1	-30.2	52.89	-	-	74	-21.11	-	-	258	115	H
	* 4.999	36.42	ADR	34.1	-30.2	40.32	54	-13.68	-	-	-	-	258	115	H
3	* 1.4	47.43	PK-U	28.9	-35	41.33	-	-	74	-32.67	-	-	116	101	V
	* 1.4	43.03	ADR	28.9	-35	36.93	54	-17.07	-	-	-	-	116	101	V
5	* 15.643	38.21	PK-U	40.4	-24.6	54.01	-	-	74	-19.99	-	-	244	101	H
	* 15.64	27.38	ADR	40.4	-24.6	43.18	54	-10.82	-	-	-	-	244	101	H
6	* 15.645	38.03	PK-U	40.4	-24.6	53.83	-	-	74	-20.17	-	-	154	102	V
	* 15.624	27.6	ADR	40.3	-24.5	43.6	54	-10.4	-	-	-	-	154	102	V
4	6.947	41.84	PK-U	35.5	-30.4	46.94	-	-	-	-	68.2	-21.26	188	110	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

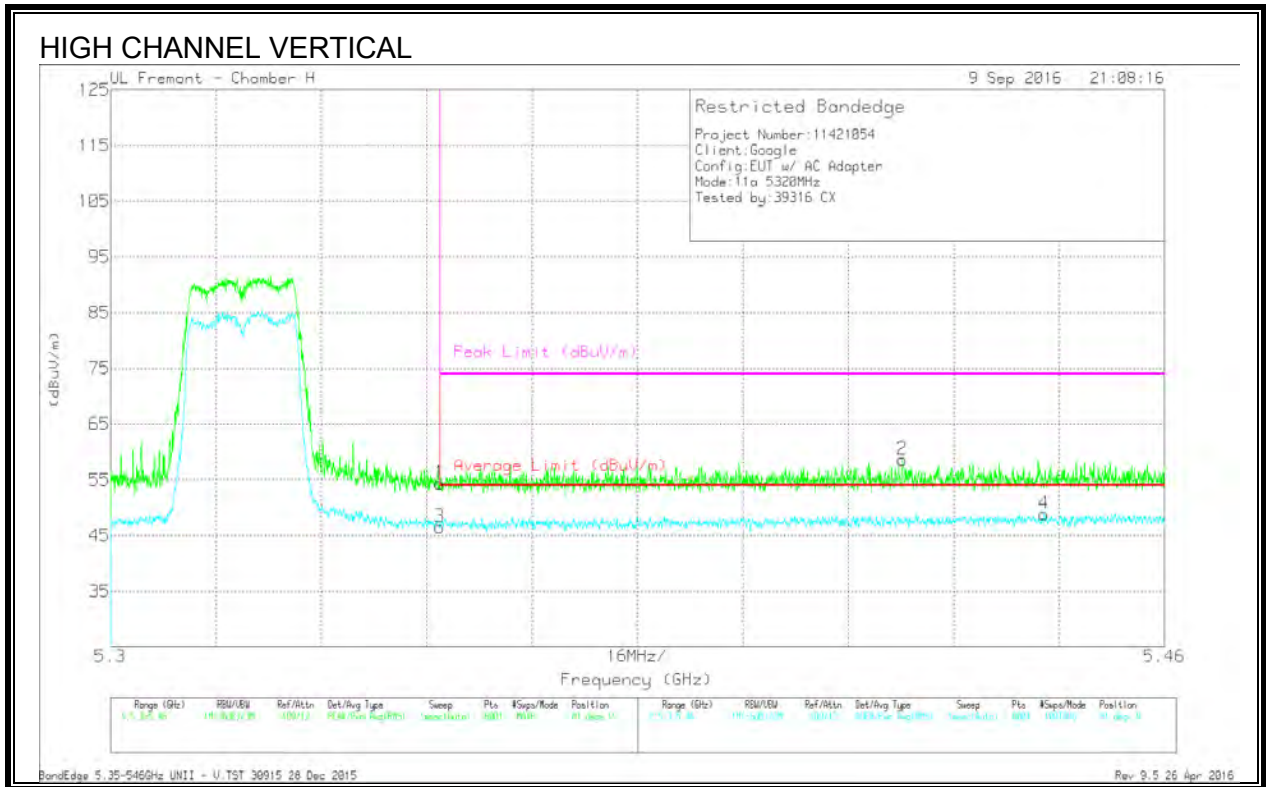
9.1.5. 11a MODE IN THE 5.3GHz BAND

AUTHORIZED BANDEGE (HIGH CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr/P ad (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	45.34	Pk	34.6	-15.8	64.14	-	-	74	-9.86	86	123	H
2	* 5.353	45.06	PK	34.6	-15.9	63.76	-	-	74	-10.24	86	123	H
3	* 5.35	29.69	RMS	34.6	-15.8	48.49	54	-5.51	-	-	86	123	H
4	* 5.355	30.97	RMS	34.6	-15.9	49.67	54	-4.33	-	-	86	123	H

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



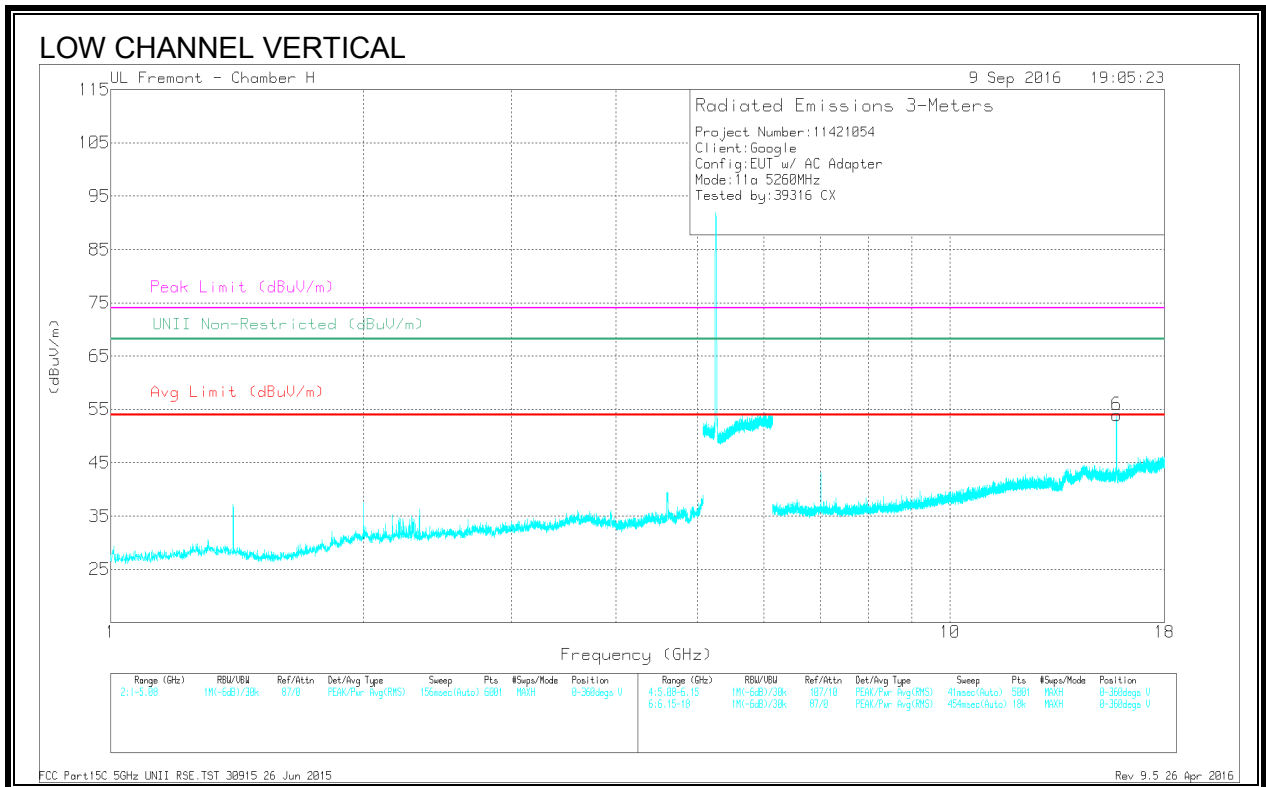
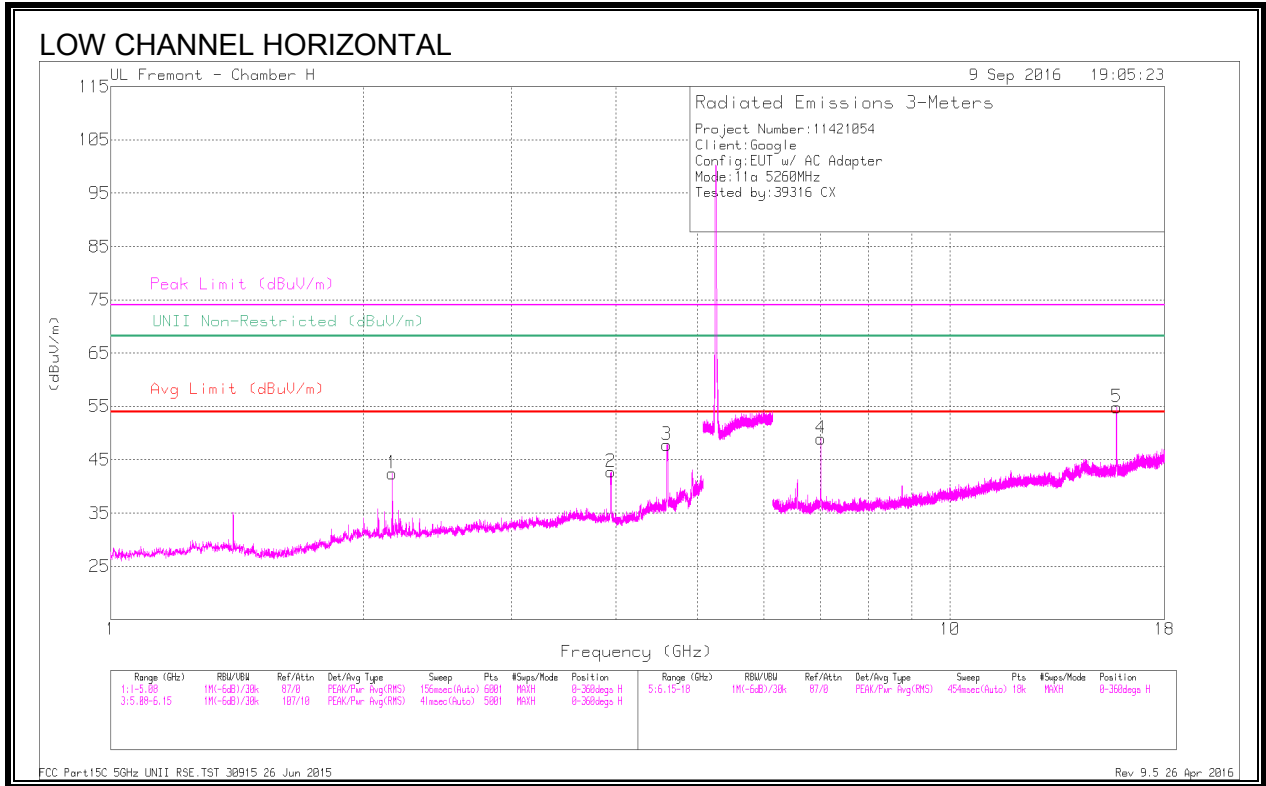
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	35.56	Pk	34.6	-15.8	54.36	-	-	74	-19.64	81	116	V
2	* 5.42	39.68	Pk	34.6	-15.7	58.58	-	-	74	-15.42	81	116	V
3	* 5.35	27.68	RMS	34.6	-15.8	46.48	54	-7.52	-	-	81	116	V
4	* 5.442	29.98	RMS	34.7	-15.8	48.88	54	-5.12	-	-	81	116	V

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

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

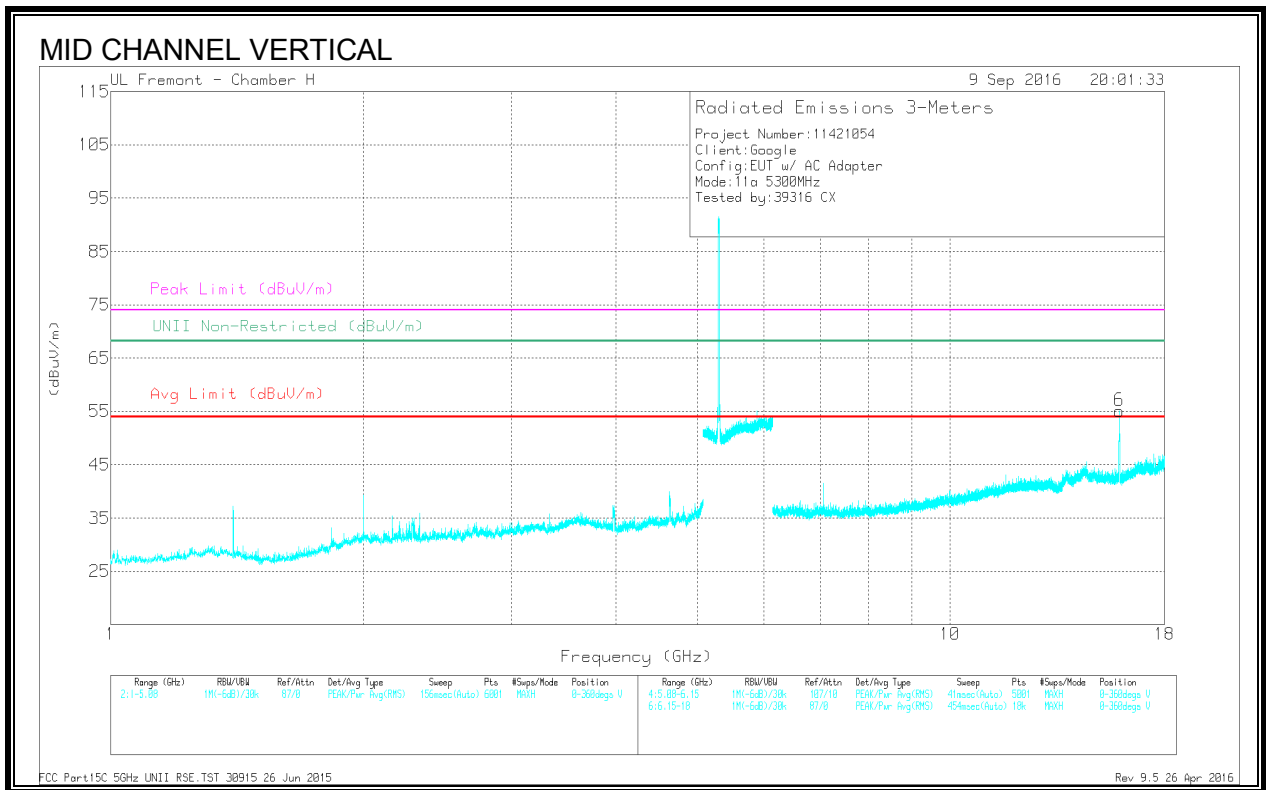
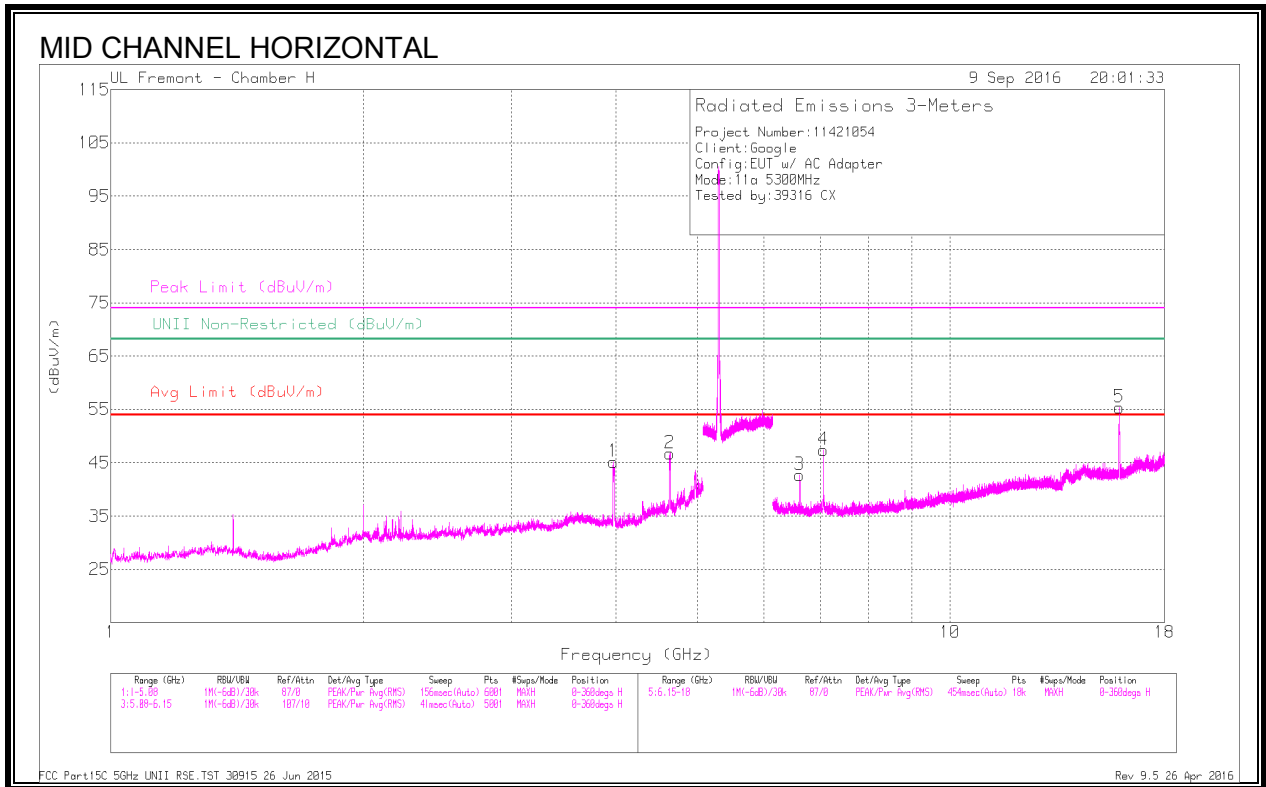


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 3.952	48.78	PK-U	33.5	-35.6	46.68	-	-	74	-27.32	-	-	106	185	H
	* 3.942	40.05	ADR	33.5	-35.6	37.95	54	-16.05	-	-	-	-	106	185	H
3	* 4.6	51.61	PK-U	34	-34.6	51.01	-	-	74	-22.99	-	-	95	250	H
	* 4.61	43.05	ADR	34	-34.5	42.55	54	-11.45	-	-	-	-	95	250	H
5	* 15.785	46.21	PK-U	40.3	-25.9	60.61	-	-	74	-13.39	-	-	91	101	H
	* 15.781	36.36	ADR	40.3	-25.9	50.76	54	-3.24	-	-	-	-	91	101	H
6	* 15.78	44.1	PK-U	40.3	-25.9	58.5	-	-	74	-15.5	-	-	352	101	V
	* 15.78	34.18	ADR	40.3	-25.9	48.58	54	-5.42	-	-	-	-	352	101	V
1	2.167	56.13	PK-U	31.6	-38.1	49.63	-	-	-	-	68.2	-18.57	4	221	H
4	7.013	46.61	PK-U	35.7	-31.4	50.91	-	-	-	-	68.2	-17.29	92	103	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

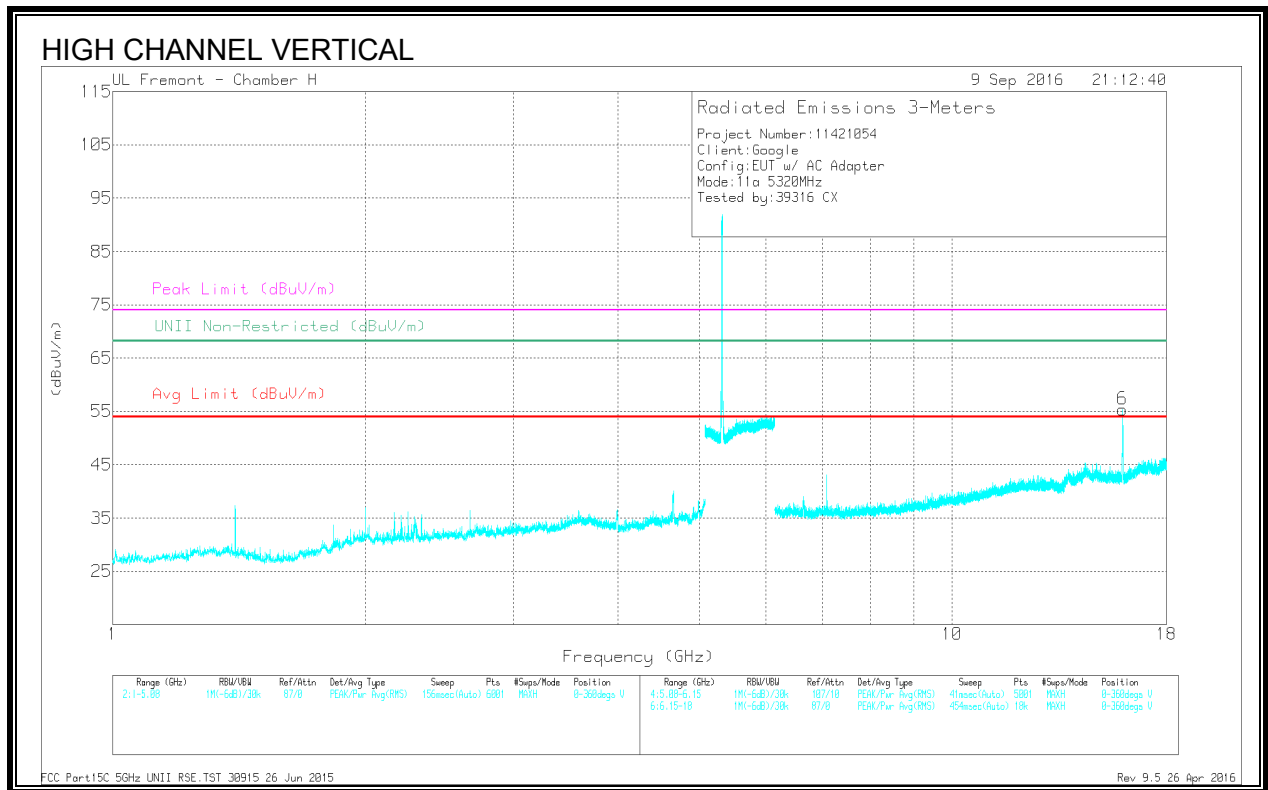
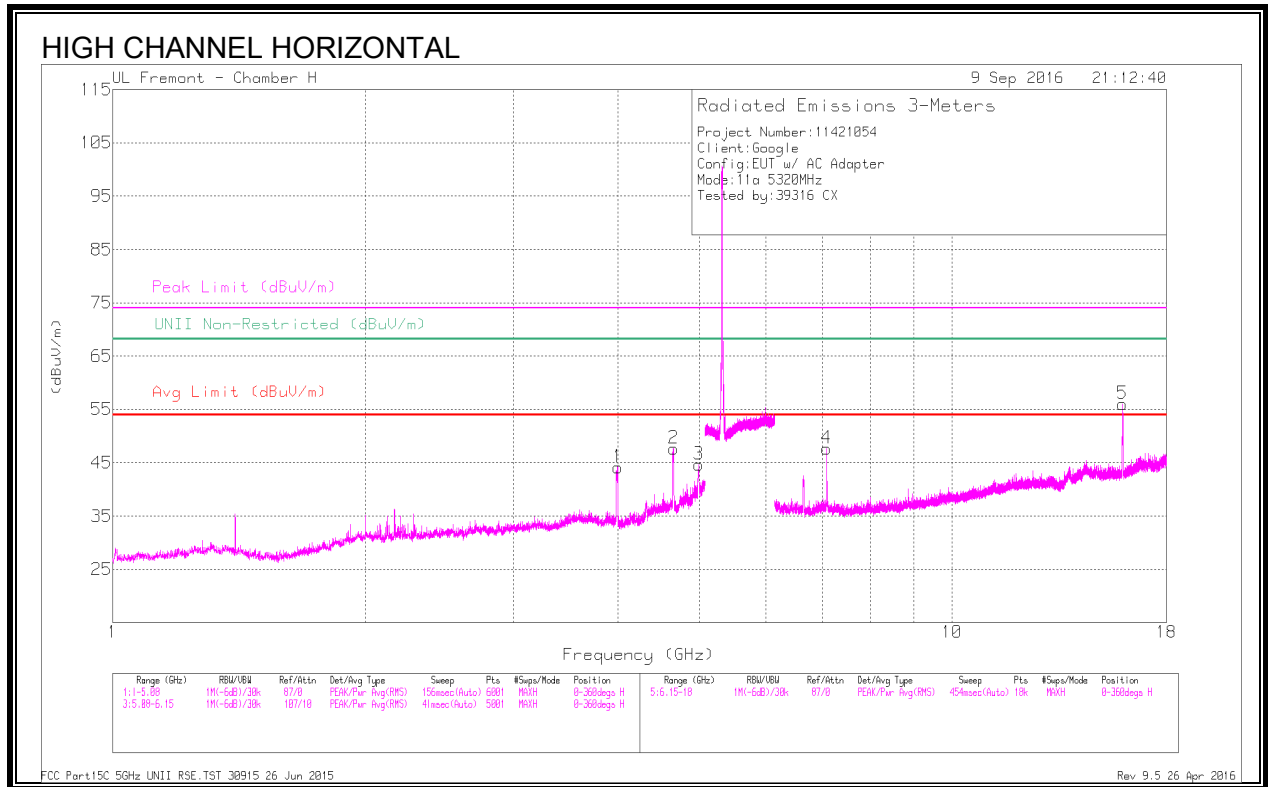


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Amp/CbI/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.978	48.63	PK-U	33.5	-35.5	46.63	-	-	74	-27.37	-	-	106	214	H
	* 3.978	40.8	ADR	33.5	-35.5	38.8	54	-15.2	-	-	-	-	106	214	H
2	* 4.63	49.57	PK-U	34	-34.3	49.27	-	-	74	-24.73	-	-	93	105	H
	* 4.63	40.71	ADR	34	-34.3	40.41	54	-13.59	-	-	-	-	93	105	H
5	* 15.899	46.32	PK-U	40.3	-25.8	60.82	-	-	74	-13.18	-	-	89	100	H
	* 15.897	35.86	ADR	40.3	-25.7	50.46	54	-3.54	-	-	-	-	89	100	H
6	* 15.893	44.24	PK-U	40.3	-25.7	58.84	-	-	74	-15.16	-	-	352	100	V
	* 15.899	34.06	ADR	40.3	-25.8	48.56	54	-5.44	-	-	-	-	352	100	V
3	6.632	41.88	PK-U	35.7	-31.8	45.78	-	-	-	-	68.2	-22.42	80	113	H
4	7.067	44.95	PK-U	35.7	-31.9	48.75	-	-	-	-	68.2	-19.45	92	100	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



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.993	48.62	PK-U	33.5	-35.5	46.62	-	-	74	-27.38	-	-	99	105	H
	* 3.997	40.11	ADR	33.5	-35.4	38.21	54	-15.79	-	-	-	-	99	105	H
2	* 4.651	50.29	PK-U	34	-34.4	49.89	-	-	74	-24.11	-	-	94	100	H
	* 4.652	41.57	ADR	34	-34.4	41.17	54	-12.83	-	-	-	-	94	100	H
3	* 4.982	46.94	PK-U	34.1	-33	48.04	-	-	74	-25.96	-	-	94	129	H
	* 4.995	37.4	ADR	34.1	-33.2	38.3	54	-15.7	-	-	-	-	94	129	H
5	* 15.961	46.57	PK-U	40.4	-25.7	61.27	-	-	74	-12.73	-	-	87	105	H
	* 15.962	38.06	ADR	40.4	-25.7	50.76	54	-3.24	-	-	-	-	87	105	H
6	* 15.966	44.87	PK-U	40.4	-25.7	59.57	-	-	74	-14.43	-	-	351	100	V
	* 15.961	34.58	ADR	40.4	-25.7	49.28	54	-4.72	-	-	-	-	351	100	V
4	7.093	45.65	PK-U	35.7	-31.9	49.45	-	-	-	-	68.2	-18.75	90	102	H

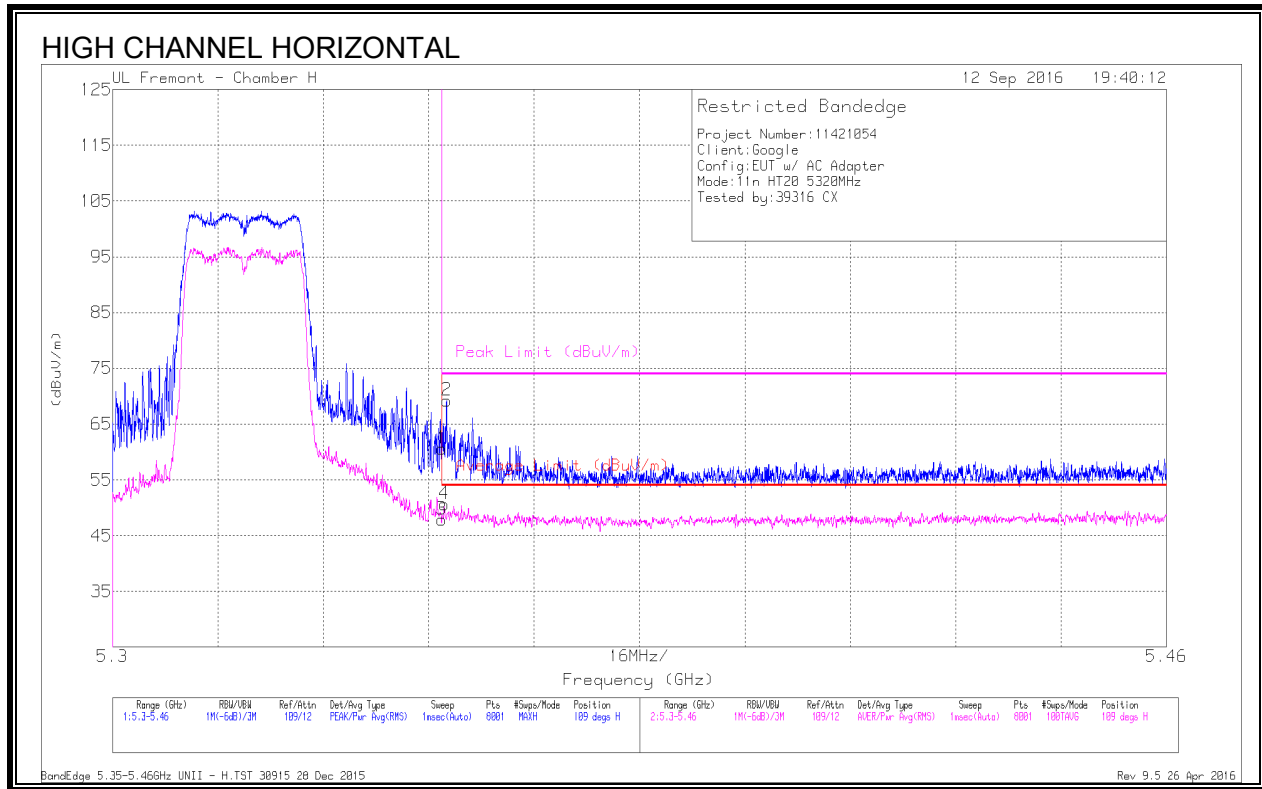
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

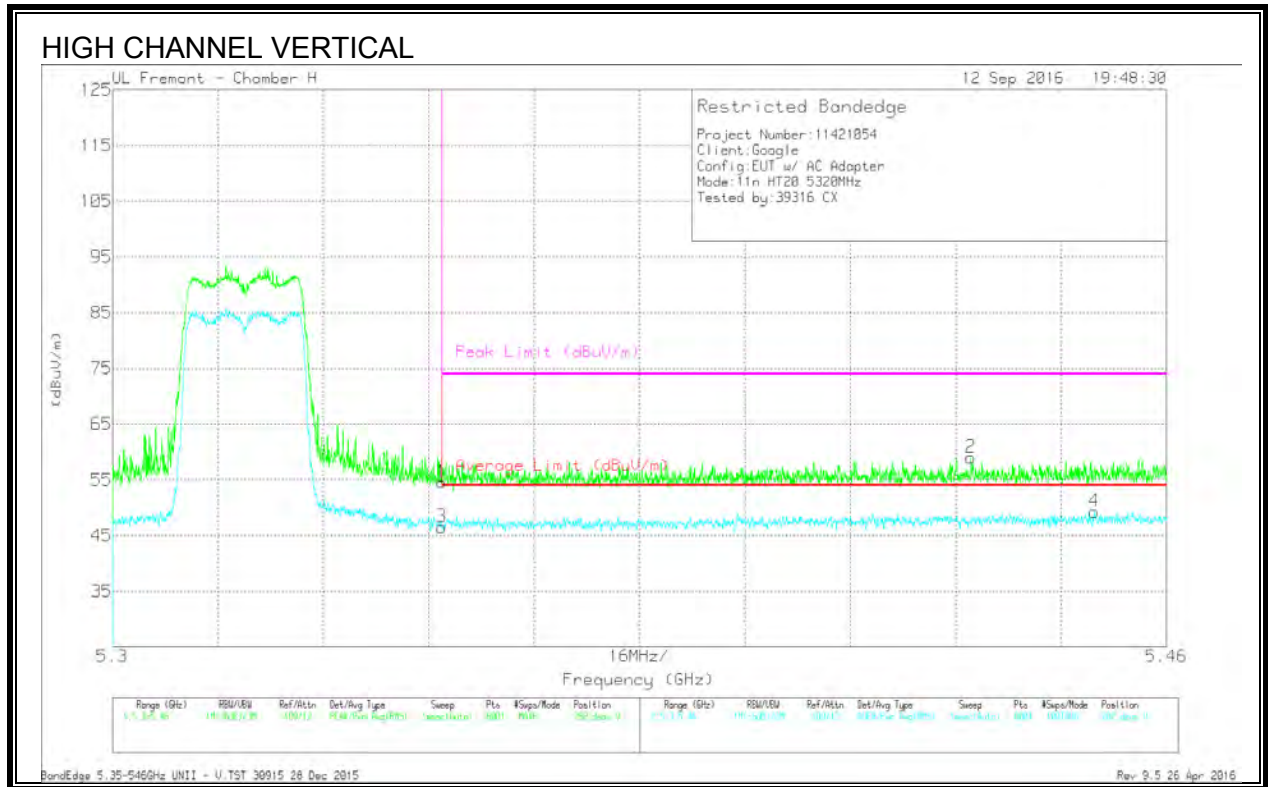
9.1.6. 11n HT20 MODE IN THE 5.3GHz BAND

AUTHORIZED BANDEDGE (HIGH CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr/P ad (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	41.78	Pk	34.6	-15.8	60.58	-	-	74	-13.42	109	172	H
2	* 5.351	50.48	Pk	34.6	-15.8	69.28	-	-	74	-4.72	109	172	H
3	* 5.35	29.13	RMS	34.6	-15.8	47.93	54	-6.07	-	-	109	172	H
4	* 5.35	31.88	RMS	34.6	-15.8	50.68	54	-3.32	-	-	109	172	H

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



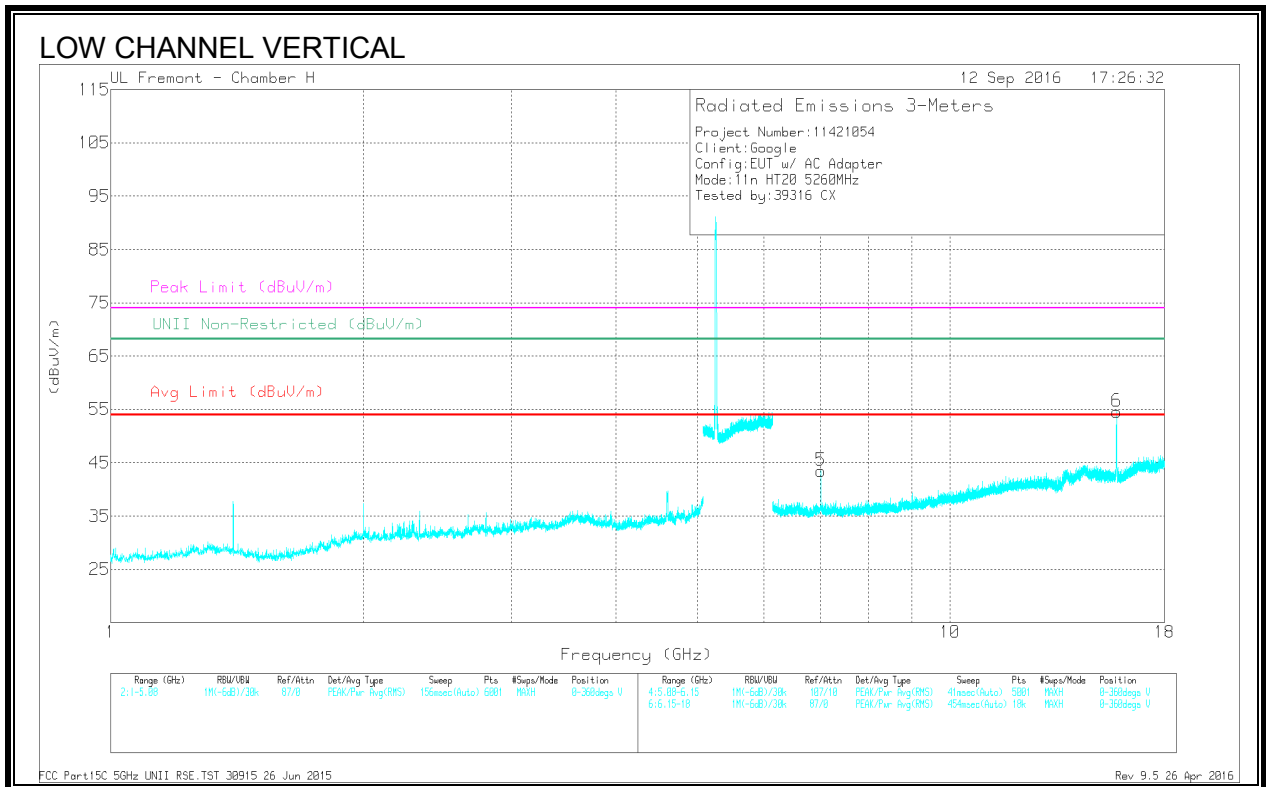
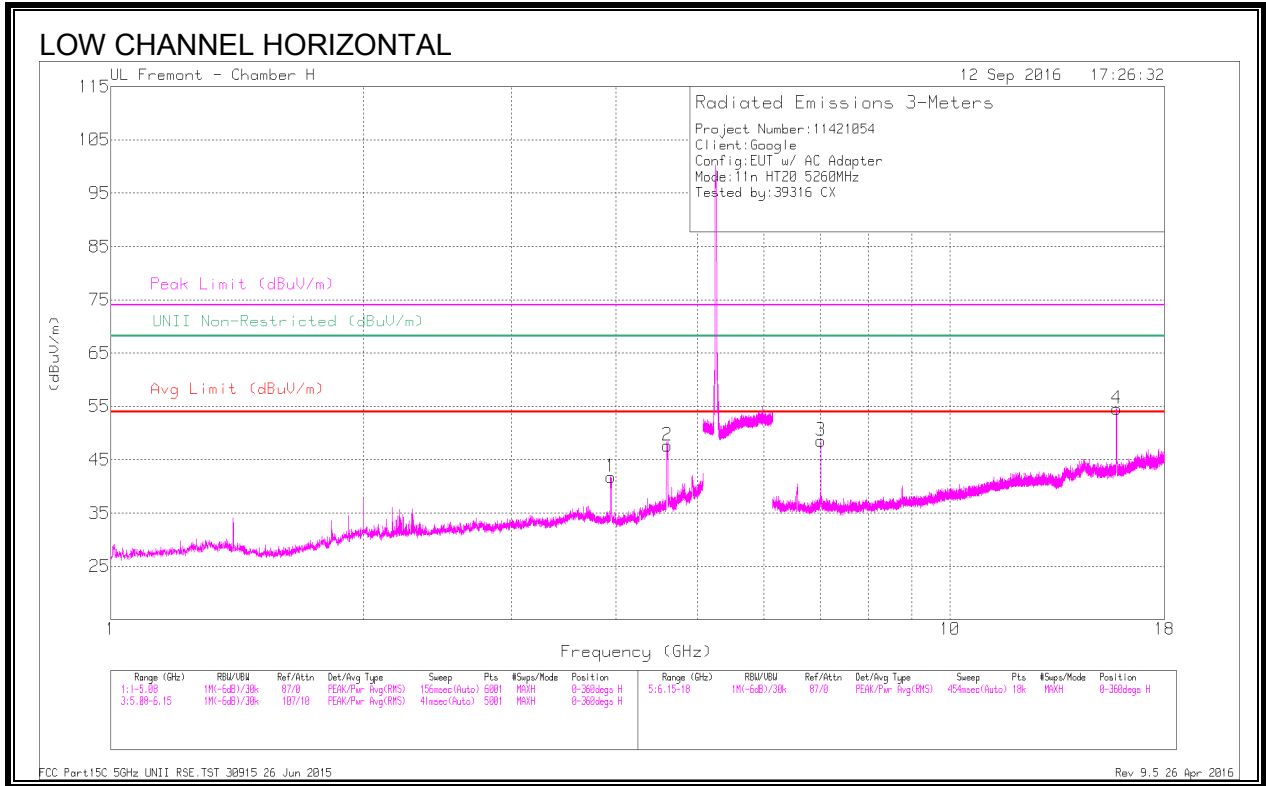
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	35.77	Pk	34.6	-15.8	54.57	-	-	74	-19.43	282	213	V
2	* 5.43	40.05	Pk	34.6	-15.7	58.95	-	-	74	-15.05	282	213	V
3	* 5.35	27.78	RMS	34.6	-15.8	46.58	54	-7.42	-	-	282	213	V
4	* 5.449	30.22	RMS	34.7	-15.7	49.22	54	-4.78	-	-	282	213	V

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

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

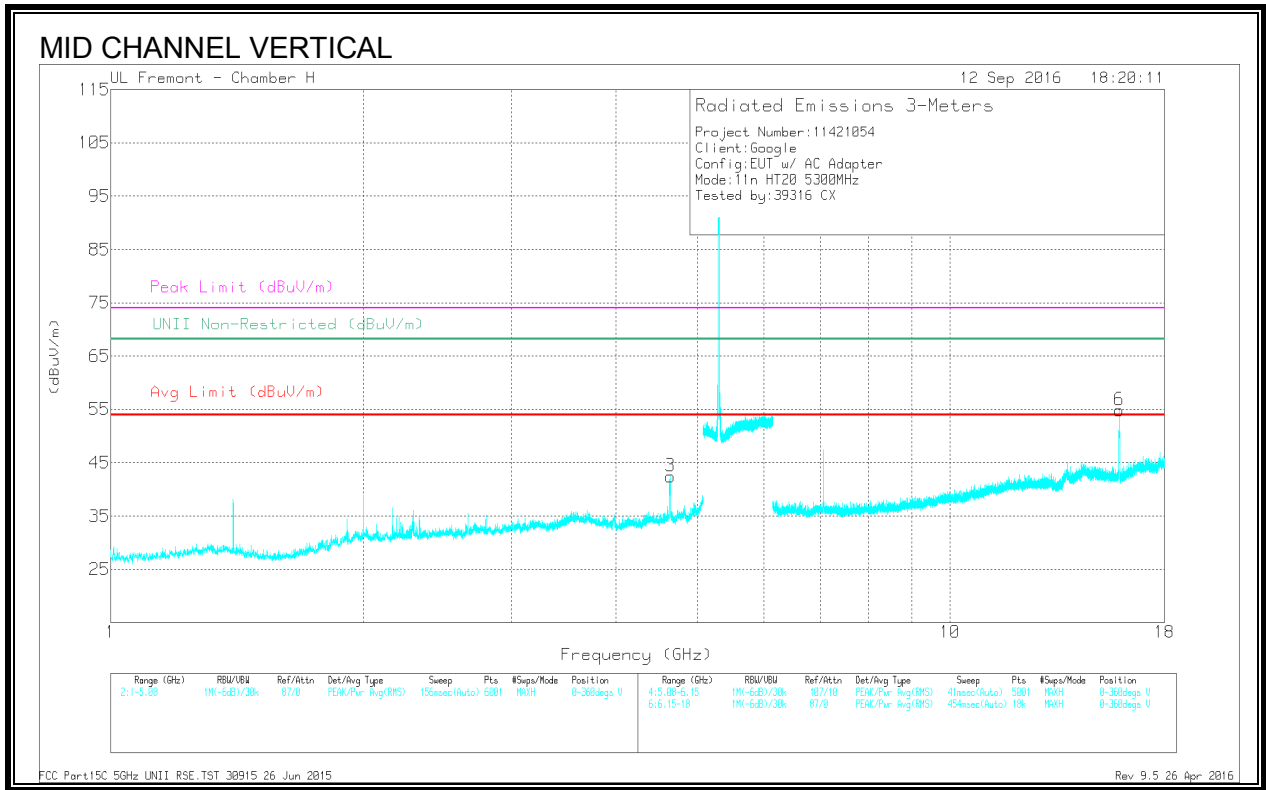
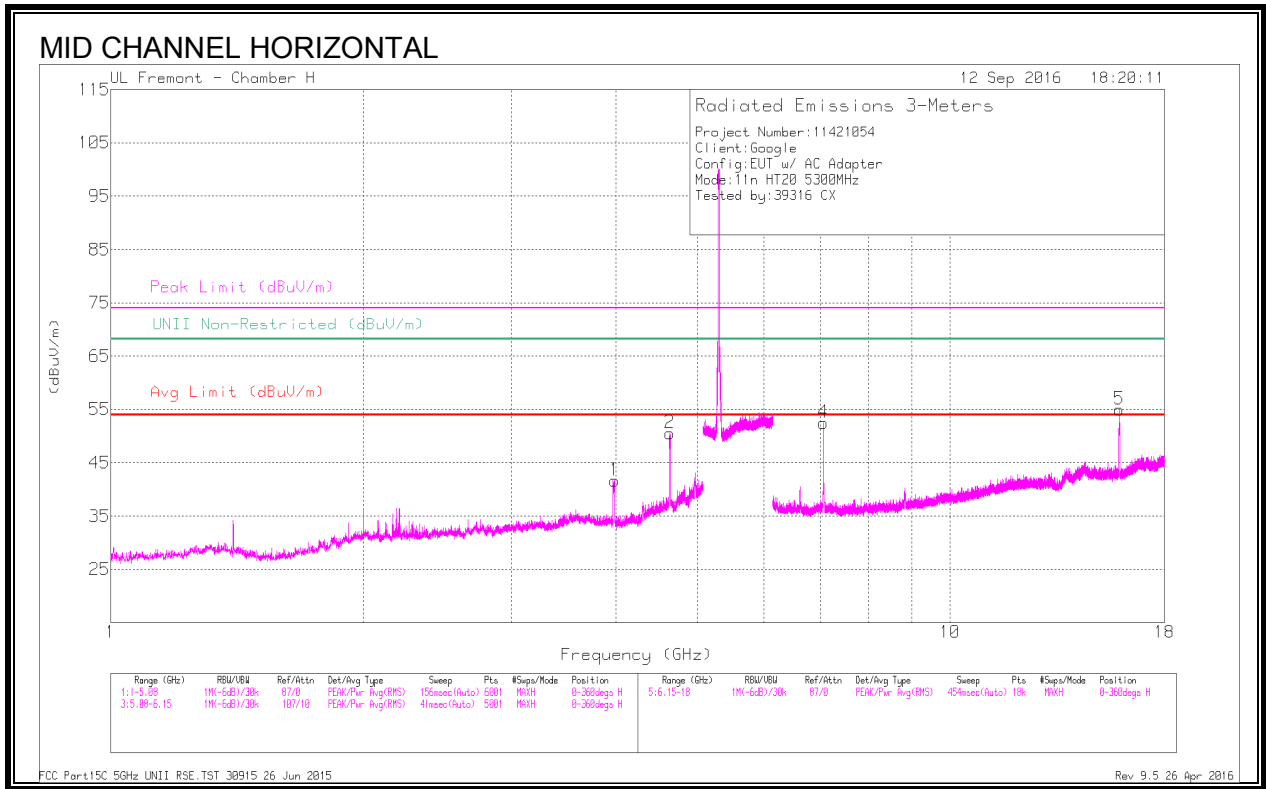


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.938	48.66	PK-U	33.5	-35.6	46.56	-	-	74	-27.44	-	-	91	133	H
	* 3.938	39.78	ADR	33.5	-35.6	37.68	54	-16.32	-	-	-	-	91	133	H
2	* 4.609	51.91	PK-U	34	-34.5	51.41	-	-	74	-22.59	-	-	94	100	H
	* 4.61	43.68	ADR	34	-34.5	43.18	54	-10.82	-	-	-	-	94	100	H
4	* 15.779	45.67	PK-U	40.3	-25.9	60.07	-	-	74	-13.93	-	-	80	100	H
	* 15.783	36.08	ADR	40.3	-25.9	50.48	54	-3.52	-	-	-	-	80	100	H
6	* 15.782	44.96	PK-U	40.3	-25.9	59.36	-	-	74	-14.64	-	-	352	101	V
	* 15.783	34.62	ADR	40.3	-25.9	49.02	54	-4.96	-	-	-	-	352	101	V
3	7.013	46.32	PK-U	35.7	-31.4	50.62	-	-	-	-	68.2	-17.58	74	204	H
5	7.013	43.34	PK-U	35.7	-31.4	47.64	-	-	-	-	68.2	-20.56	266	102	V

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

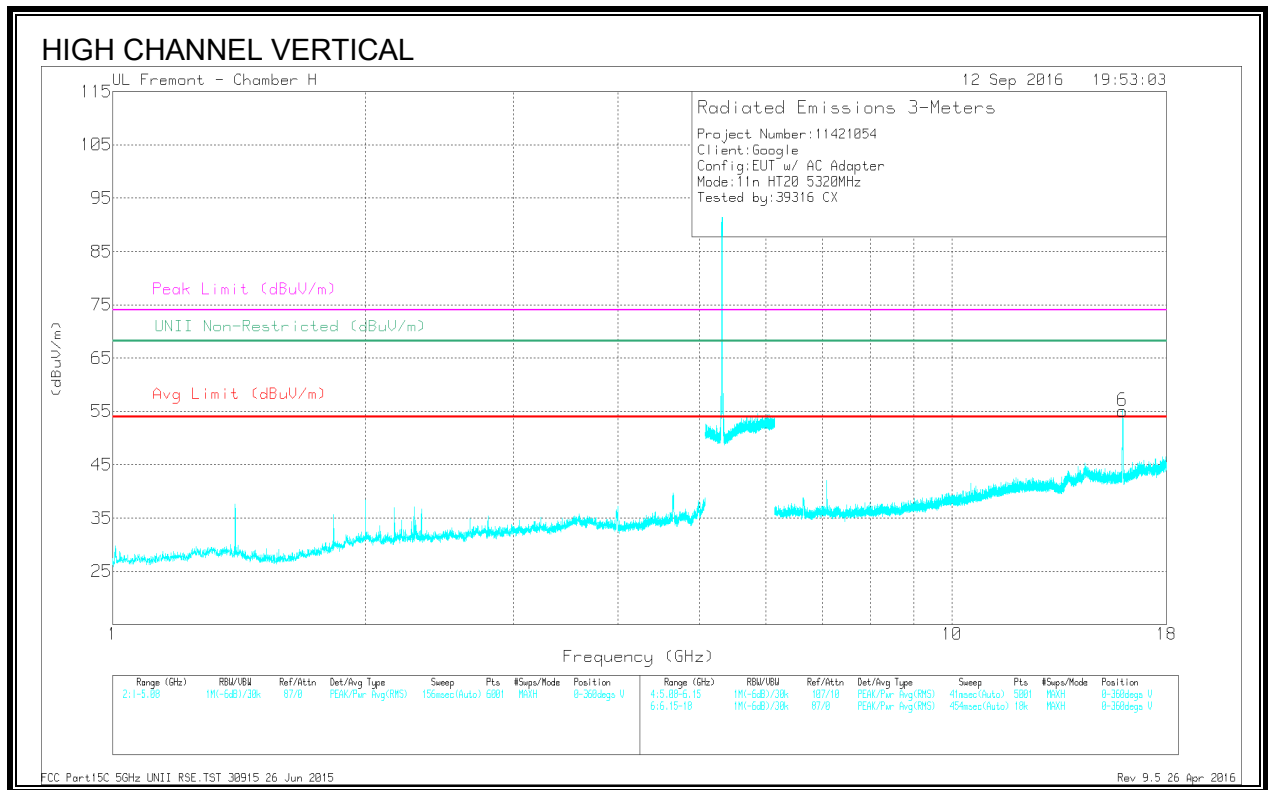
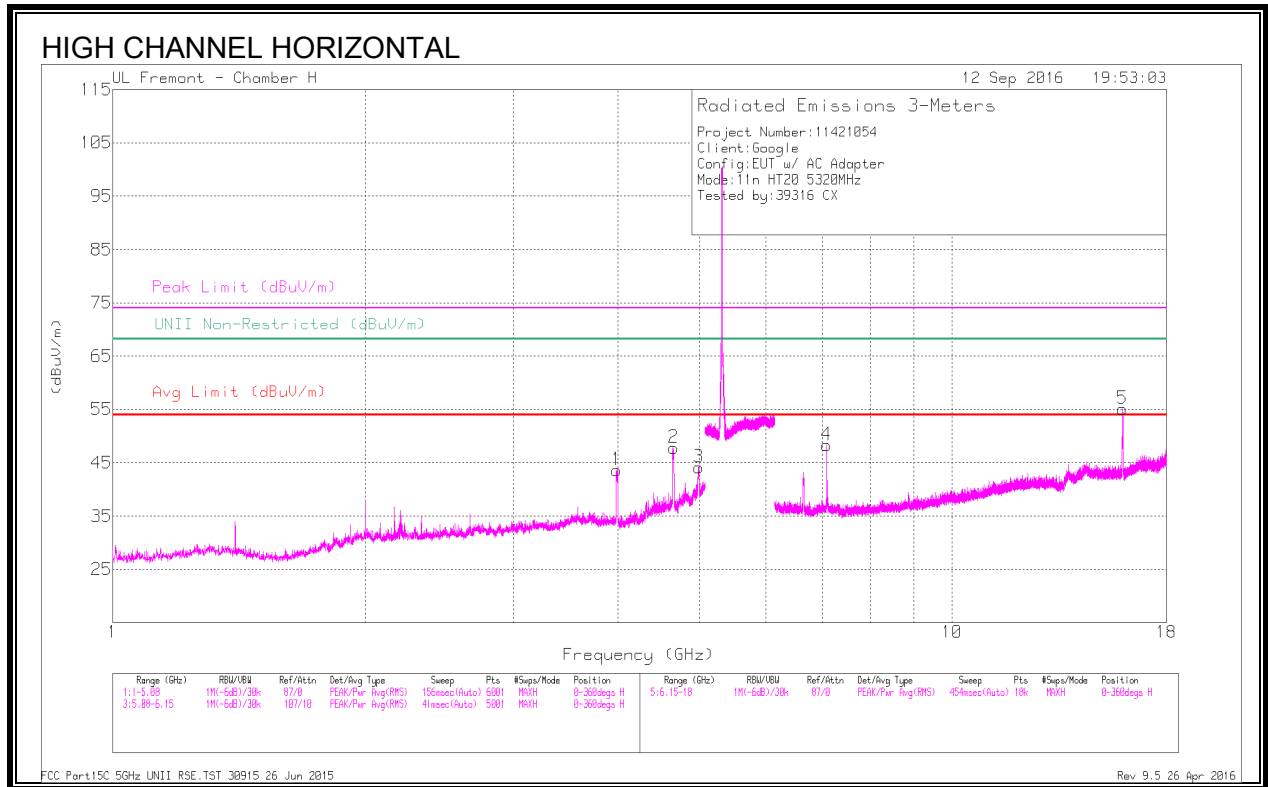
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	U-NII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.967	49.56	PK-U	33.5	-35.5	47.56	-	-	74	-26.44	-	-	92	127	H
	* 3.977	39.83	ADR	33.5	-35.5	37.83	54	-16.17	-	-	-	-	92	127	H
2	* 4.634	49.84	PK-U	34	-34.3	49.54	-	-	74	-24.46	-	-	92	100	H
	* 4.64	40.71	ADR	34	-34.3	40.41	54	-13.59	-	-	-	-	92	100	H
3	* 4.644	45.02	PK-U	34	-34.3	44.72	-	-	74	-29.28	-	-	46	288	V
	* 4.645	35.98	ADR	34	-34.3	35.68	54	-18.32	-	-	-	-	46	288	V
5	* 15.905	45.59	PK-U	40.3	-25.8	60.09	-	-	74	-13.91	-	-	84	101	H
	* 15.903	35.68	ADR	40.3	-25.8	50.18	54	-3.82	-	-	-	-	84	101	H
6	* 15.902	44.63	PK-U	40.3	-25.8	59.13	-	-	74	-14.87	-	-	340	100	V
	* 15.898	34.26	ADR	40.3	-25.8	48.76	54	-5.24	-	-	-	-	340	100	V
4	7.066	43.19	PK-U	35.7	-31.9	46.99	-	-	-	-	68.2	-21.21	74	139	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

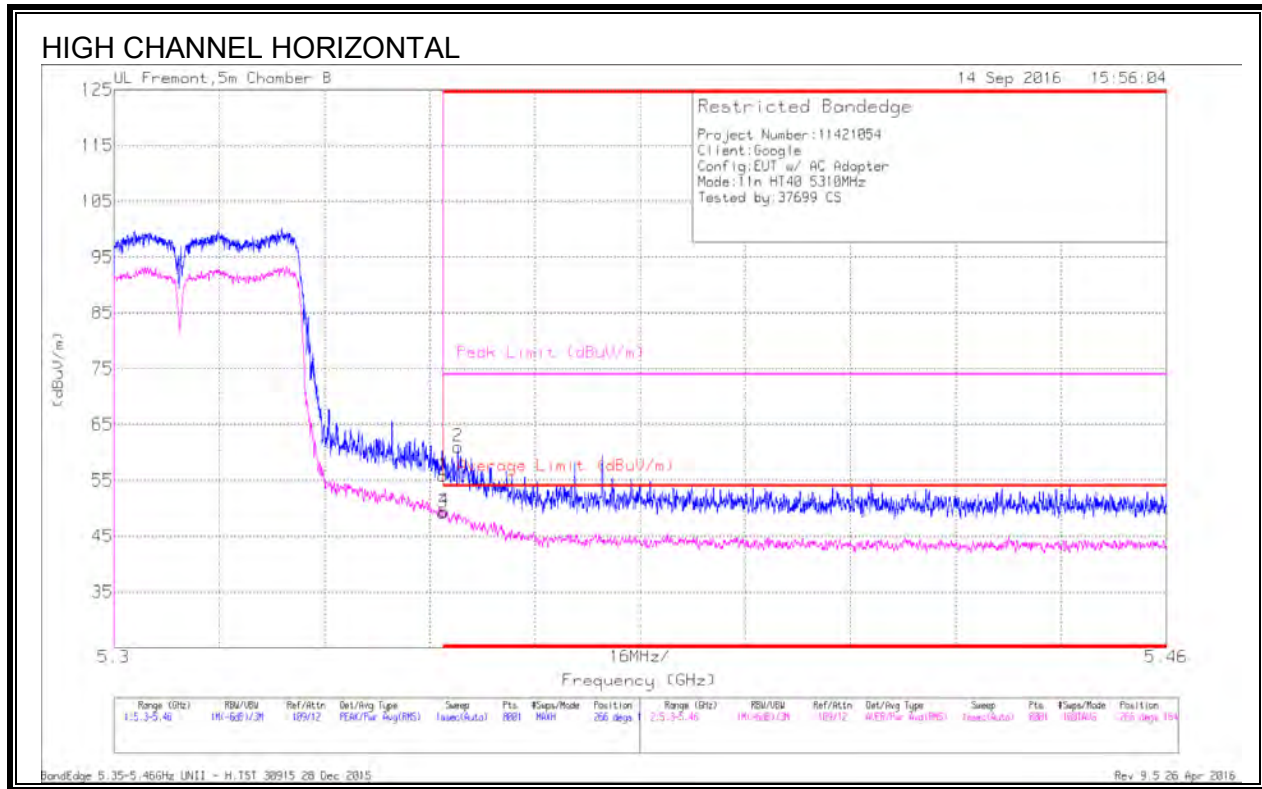


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.992	49.51	PK-U	33.5	-35.5	47.51	-	-	74	-26.49	-	-	102	100	H
	* 3.998	41.36	ADR	33.5	-35.4	39.46	54	-14.54	-	-	-	-	102	100	H
2	* 4.661	51.44	PK-U	34	-34.4	51.04	-	-	74	-22.96	-	-	93	107	H
	* 4.663	42.8	ADR	34	-34.4	42.4	54	-11.6	-	-	-	-	93	107	H
3	* 4.98	48.39	PK-U	34.1	-33.1	49.39	-	-	74	-24.61	-	-	90	107	H
	* 4.98	38.27	ADR	34.1	-33.1	39.27	54	-14.73	-	-	-	-	90	107	H
5	* 15.965	45.91	PK-U	40.4	-25.7	60.61	-	-	74	-13.39	-	-	82	100	H
	* 15.957	36.3	ADR	40.4	-25.7	51	54	-3	-	-	-	-	82	100	H
6	* 15.966	45.44	PK-U	40.4	-25.8	60.04	-	-	74	-13.96	-	-	339	104	V
	* 15.965	35.11	ADR	40.4	-25.7	49.81	54	-4.19	-	-	-	-	339	104	V
4	7.093	46.97	PK-U	35.7	-31.9	50.77	-	-	-	-	68.2	-17.43	87	100	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

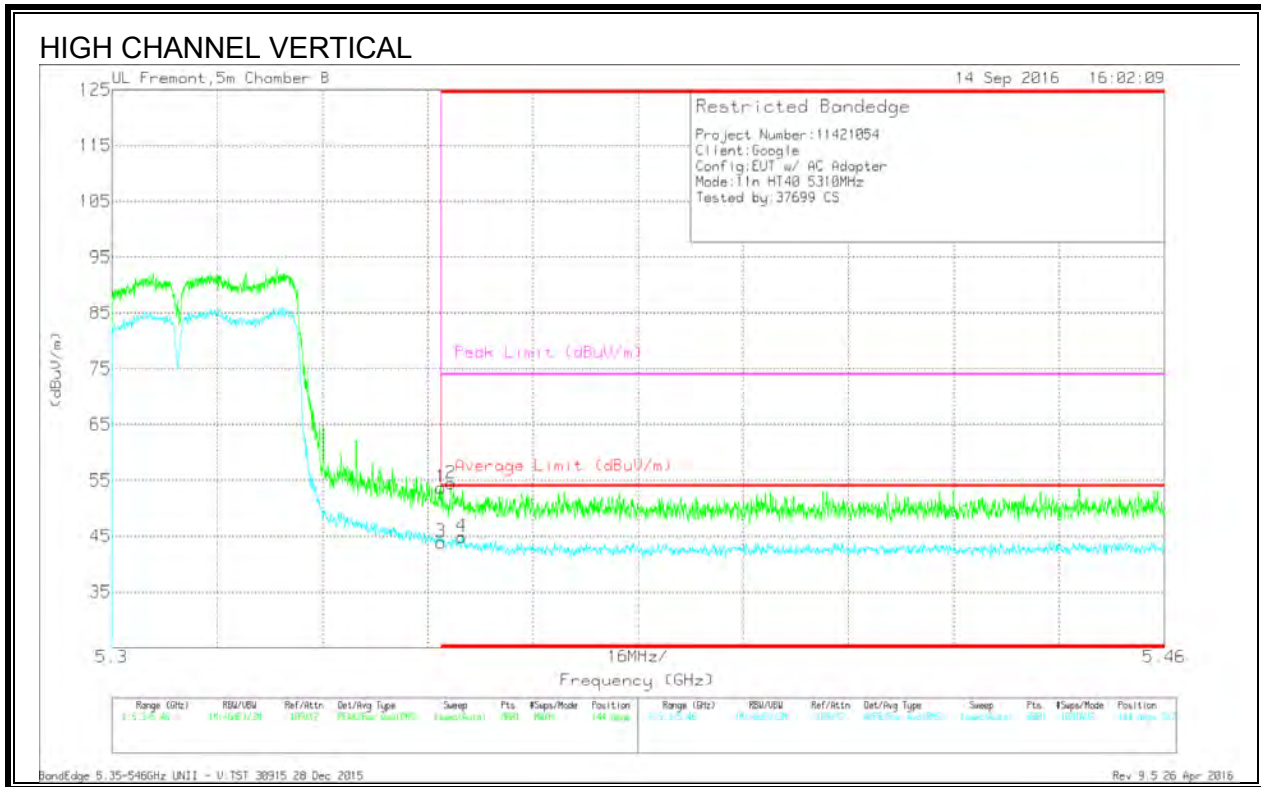
9.1.7. 11n HT40 MODE IN THE 5.3GHz BAND

AUTHORIZED BANDEGE (HIGH CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	41.65	Pk	34.5	-20.3	55.85	-	-	74	-18.15	266	184	H
3	* 5.35	35.01	RMS	34.5	-20.3	49.21	54	-4.79	-	-	266	184	H
4	* 5.35	35.25	RMS	34.5	-20.3	49.45	54	-4.55	-	-	266	184	H
2	* 5.352	46.73	Pk	34.5	-20.2	61.03	-	-	74	-12.97	266	184	H

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



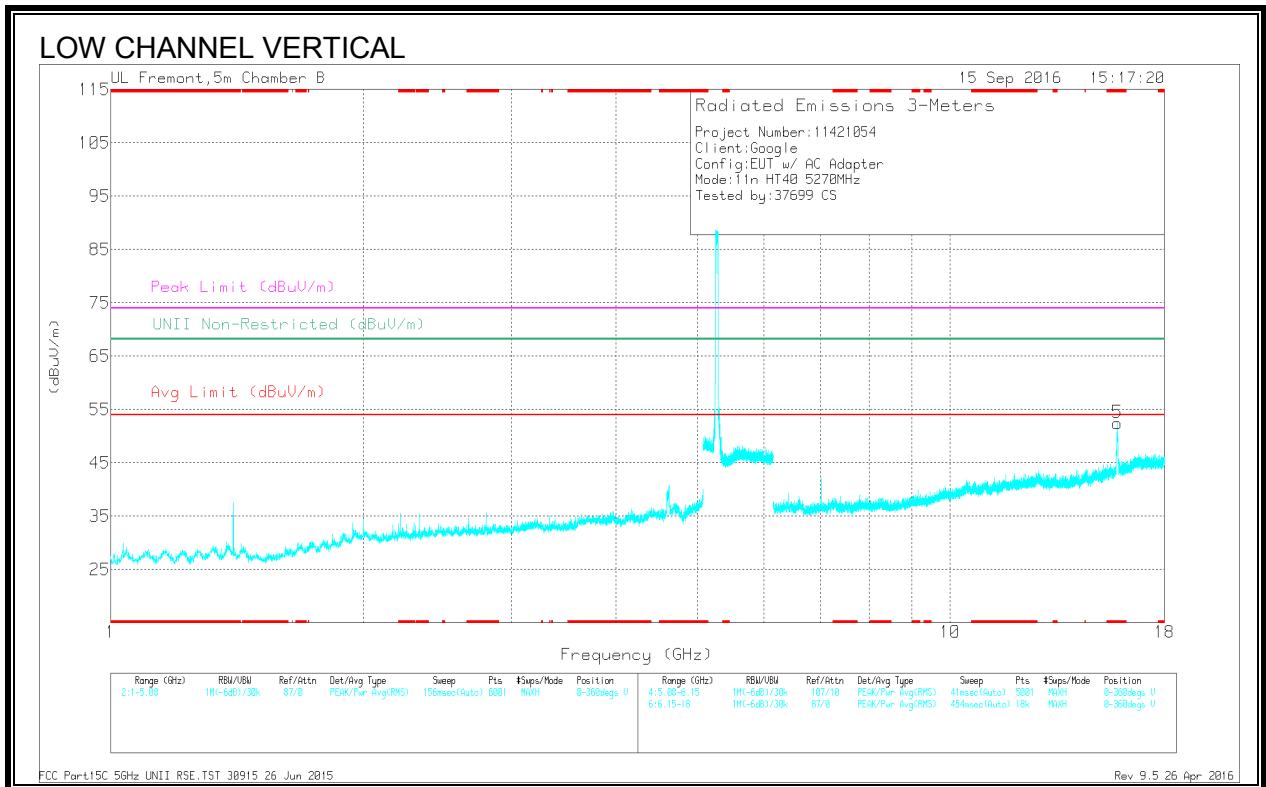
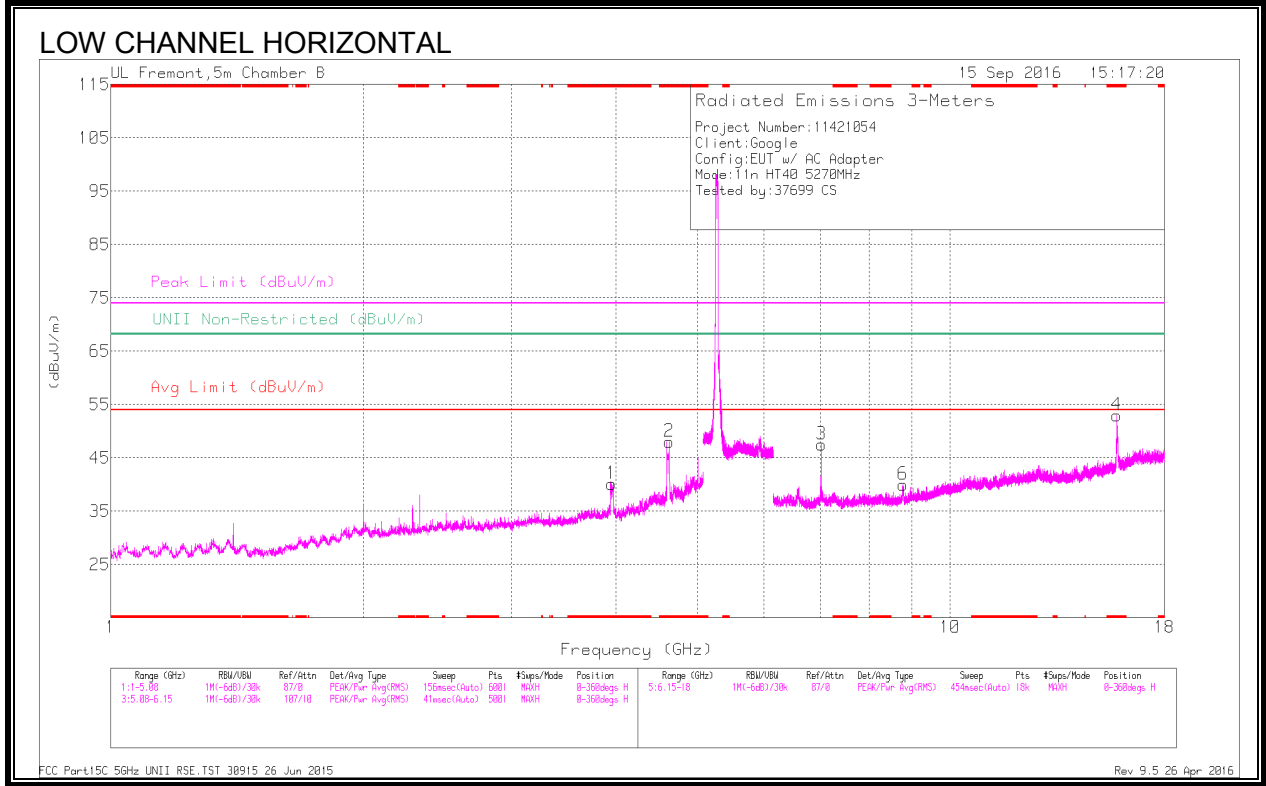
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	39.5	Pk	34.5	-20.3	53.7	-	-	74	-20.3	144	367	V
2	* 5.352	40.26	Pk	34.5	-20.3	54.46	-	-	74	-19.54	144	367	V
3	* 5.35	29.72	RMS	34.5	-20.3	43.92	54	-10.08	-	-	144	367	V
4	* 5.353	30.47	RMS	34.5	-20.1	44.87	54	-9.13	-	-	144	367	V

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

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

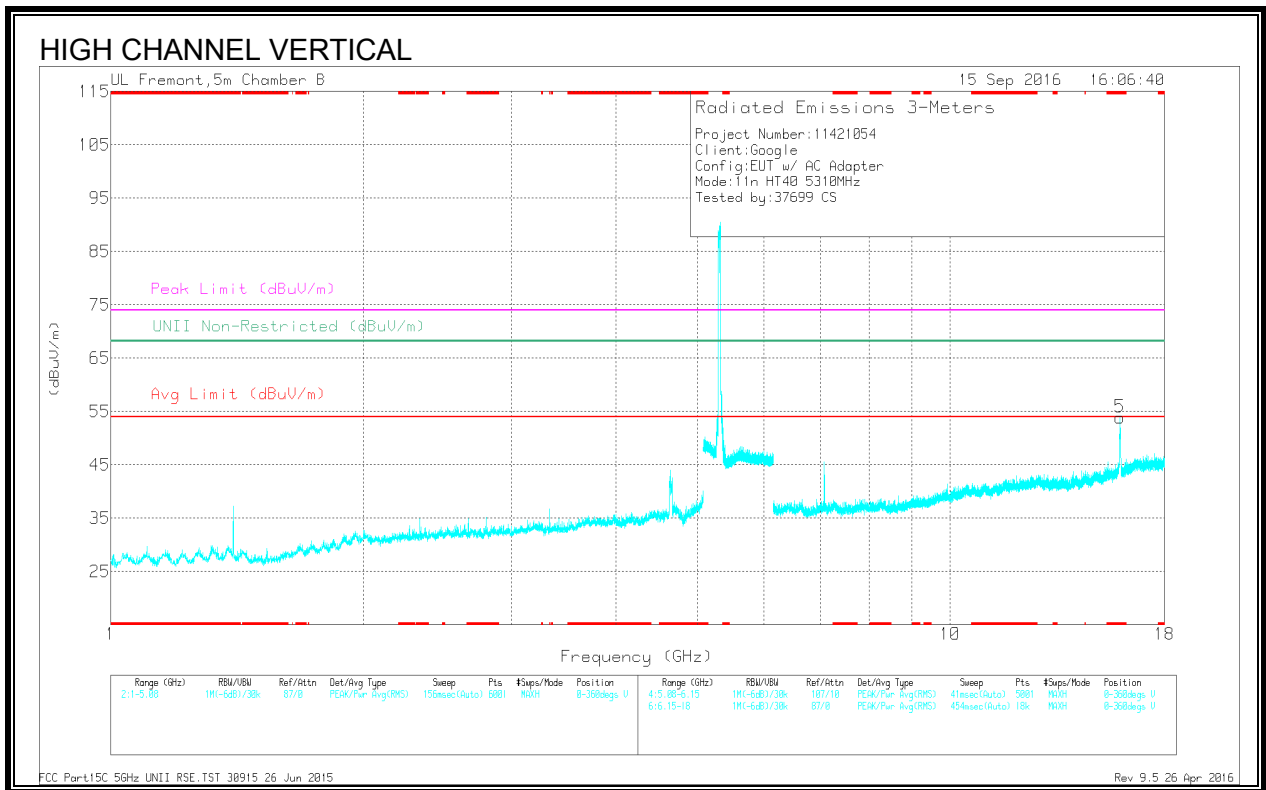
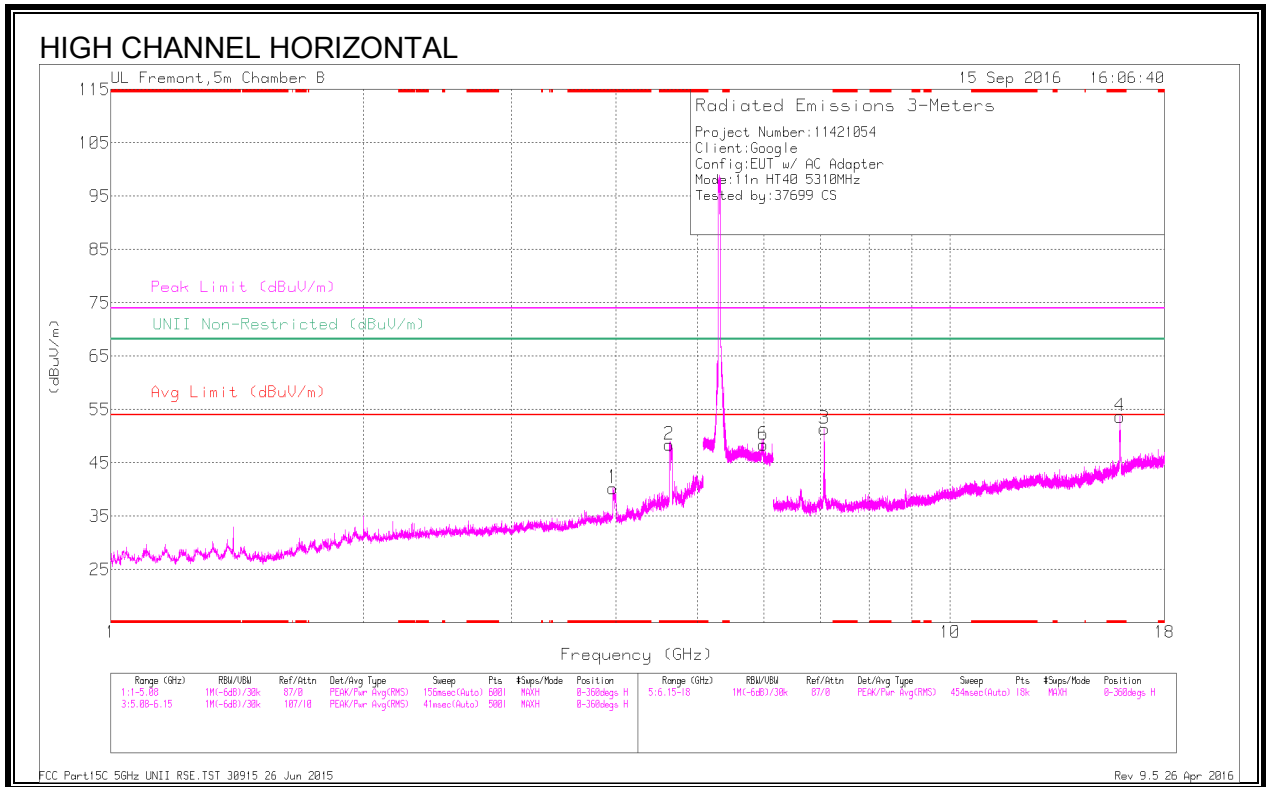


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.957	46.35	PK-U	33.3	-32	47.65	-	-	74	-26.35	-	-	272	108	H
	* 3.938	37.48	ADR	33.3	-32	38.78	54	-15.22	-	-	-	-	272	108	H
2	* 4.598	52.44	PK-U	34.1	-32.1	54.44	-	-	74	-19.56	-	-	261	296	H
	* 4.597	43.92	ADR	34.1	-32.1	45.92	54	-8.08	-	-	-	-	261	296	H
4	* 15.805	39.6	PK-U	40.6	-23.8	56.4	-	-	74	-17.6	-	-	245	102	H
	* 15.805	30.1	ADR	40.6	-23.8	46.9	54	-7.1	-	-	-	-	245	102	H
5	* 15.828	41.17	PK-U	40.6	-23	58.77	-	-	74	-15.23	-	-	16	118	V
	* 15.803	30.48	ADR	40.6	-23.8	47.28	54	-6.72	-	-	-	-	16	118	V
3	7.027	45.69	PK-U	35.5	-29.7	51.49	-	-	-	-	68.2	-16.71	360	101	H
6	8.791	39.04	PK-U	35.9	-28.5	46.44	-	-	-	-	68.2	-21.76	202	140	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



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4.631	53.18	PK-U	34.1	-30.9	56.38	-	-	74	-17.62	-	-	261	295	H
	* 4.631	44.8	ADR	34.1	-30.9	48	54	-6	-	-	-	-	261	295	H
1	* 3.968	46.15	PK-U	33.3	-31.9	47.55	-	-	74	-26.45	-	-	252	125	H
	* 3.968	36.51	ADR	33.3	-31.9	37.91	54	-16.09	-	-	-	-	252	125	H
4	* 15.923	40.81	PK-U	40.7	-22.8	58.71	-	-	74	-15.29	-	-	252	103	H
	* 15.918	29.76	ADR	40.7	-22.8	47.86	54	-6.14	-	-	-	-	252	103	H
5	* 15.944	42.02	PK-U	40.7	-23.2	59.52	-	-	74	-14.48	-	-	155	110	V
	* 15.92	31.45	ADR	40.7	-22.7	49.45	54	-4.55	-	-	-	-	155	110	V
6	5.981	40.75	PK-U	35.2	-21.4	54.55	-	-	-	-	68.2	-13.65	282	310	H
3	7.08	49.67	PK-U	35.5	-30.3	54.87	-	-	-	-	68.2	-13.33	360	106	H

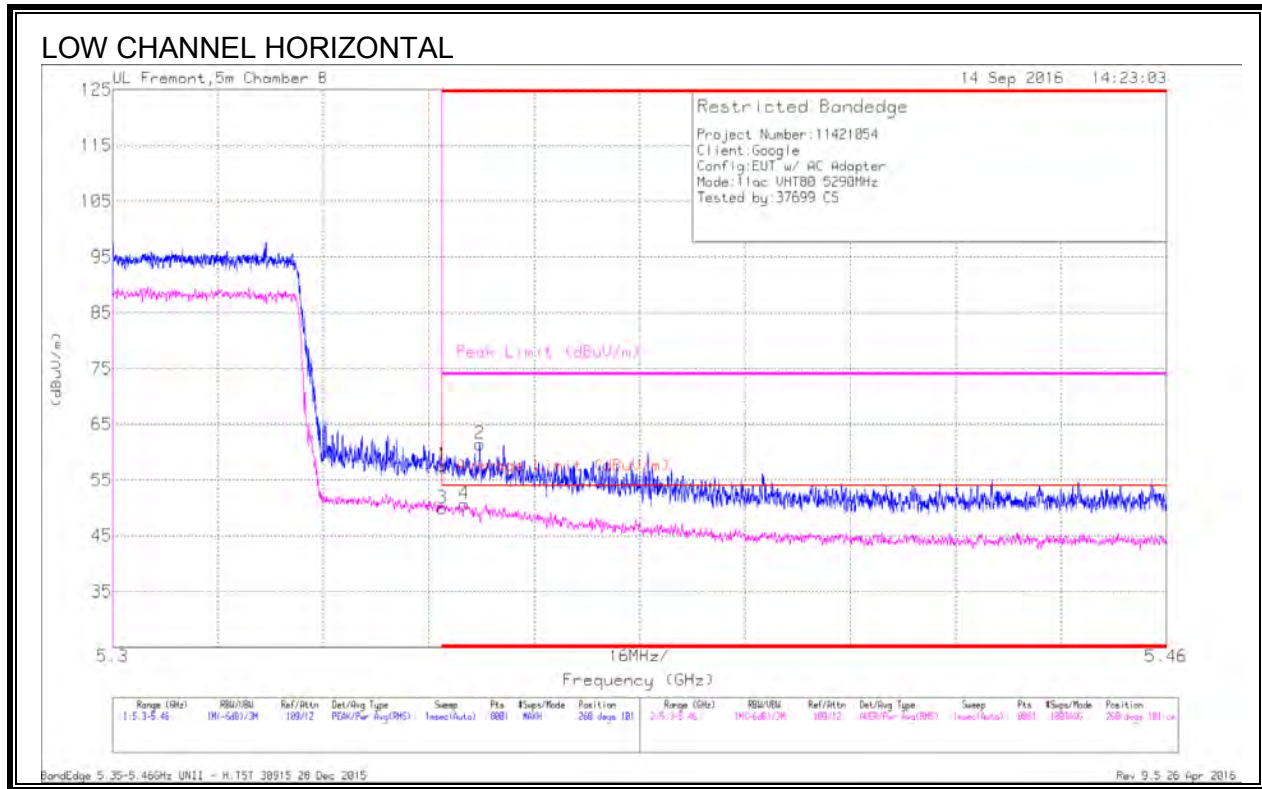
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

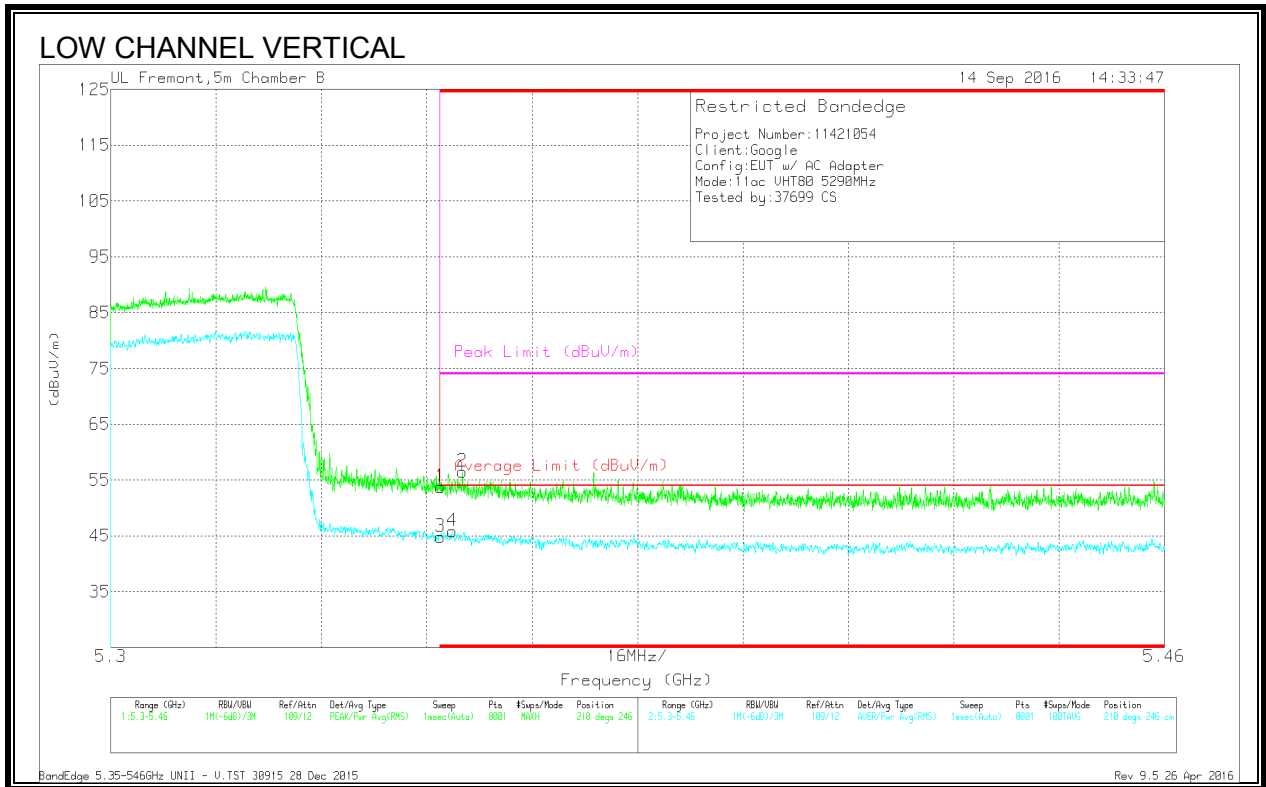
9.1.8. 11ac VHT80 MODE IN THE 5.3GHz BAND

AUTHORIZED BANDEGE (HIGH CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/P ad (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	43.41	Pk	34.5	-20.3	57.61	-	-	74	-16.39	268	101	H
2	* 5.356	47.44	PK	34.5	-20.5	61.44	-	-	74	-12.56	268	101	H
3	* 5.35	35.7	RMS	34.5	-20.3	49.9	54	-4.1	-	-	268	101	H
4	* 5.353	36.24	RMS	34.5	-20.1	50.64	54	-3.36	-	-	268	101	H

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

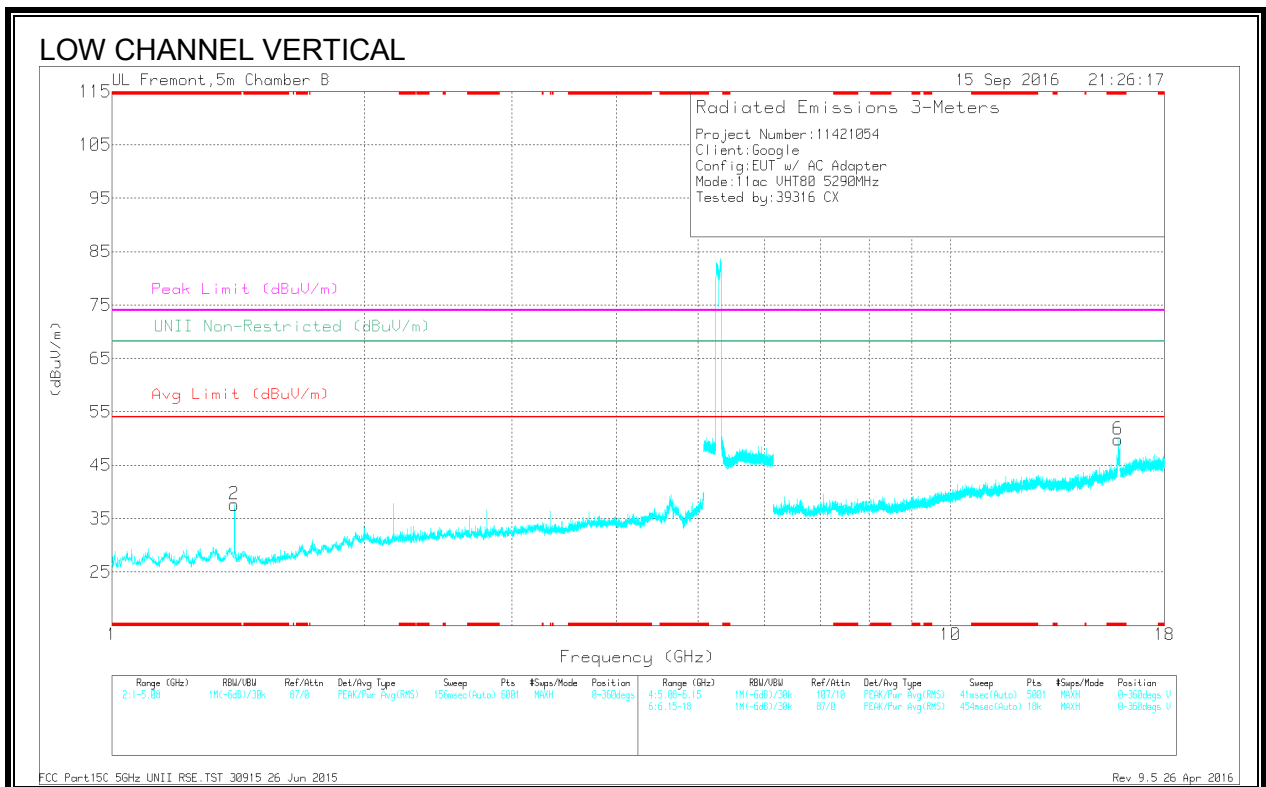
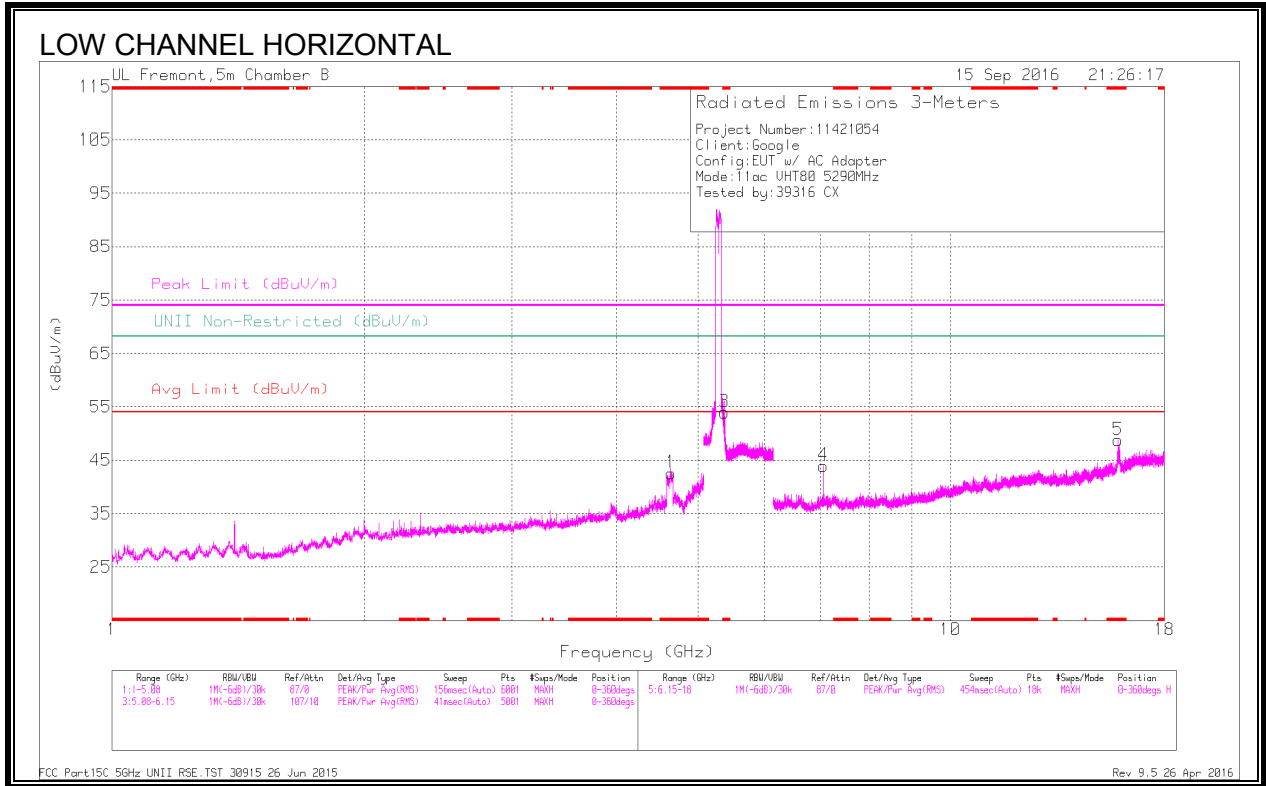


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	39.6	Pk	34.5	-20.3	53.8	-	-	74	-20.2	210	246	V
3	* 5.35	30.66	RMS	34.5	-20.3	44.86	54	-9.14	-	-	210	246	V
4	* 5.352	31.5	RMS	34.5	-20.2	45.8	54	-8.2	-	-	210	246	V
2	* 5.353	42.05	Pk	34.5	-20.1	56.45	-	-	74	-17.55	210	246	V

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

Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

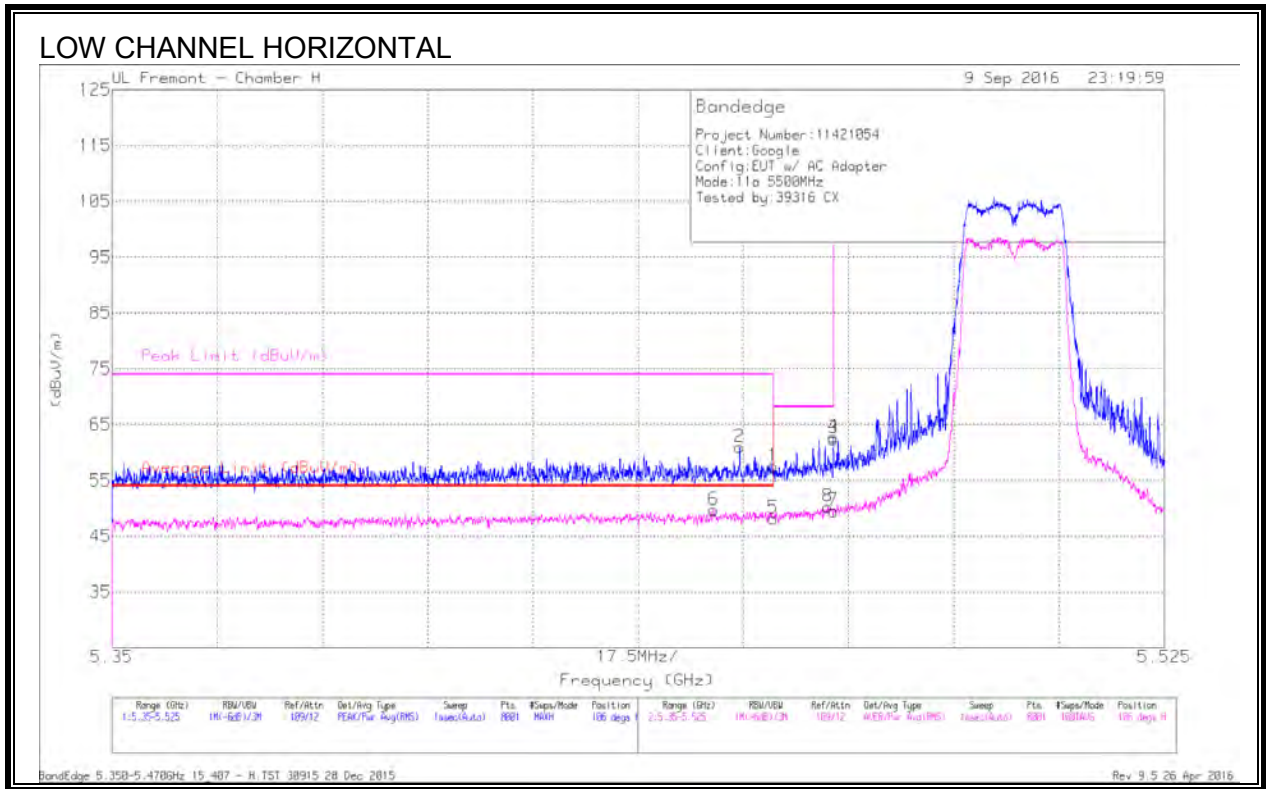


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.594	47.1	PK-U	34.1	-32.2	49	-	-	74	-25	-	-	263	110	H
	* 4.592	38.58	ADR	34.1	-32.2	40.48	54	-13.52	-	-	-	-	263	110	H
2	* 1.4	47.43	PK-U	28.9	-35	41.33	-	-	74	-32.67	-	-	120	102	V
	* 1.4	43.15	ADR	28.9	-35	37.05	54	-16.95	-	-	-	-	120	102	V
3	* 5.361	47.75	PK-U	34.5	-20.3	61.95	-	-	74	-12.05	-	-	276	356	H
	* 5.352	36.19	ADR	34.5	-20.2	50.49	54	-3.51	-	-	-	-	276	356	H
5	* 15.85	36.49	PK-U	40.6	-22.6	54.49	-	-	74	-19.51	-	-	308	109	H
	* 15.847	25.77	ADR	40.6	-22.6	43.77	54	-10.23	-	-	-	-	308	109	H
6	* 15.835	35.94	PK-U	40.6	-22.9	53.64	-	-	74	-20.36	-	-	154	106	V
	* 15.846	28.01	ADR	40.6	-22.5	44.11	54	-9.89	-	-	-	-	154	106	V
4	7.053	44.02	PK-U	35.5	-30.2	49.32	-	-	-	-	68.2	-18.88	260	111	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

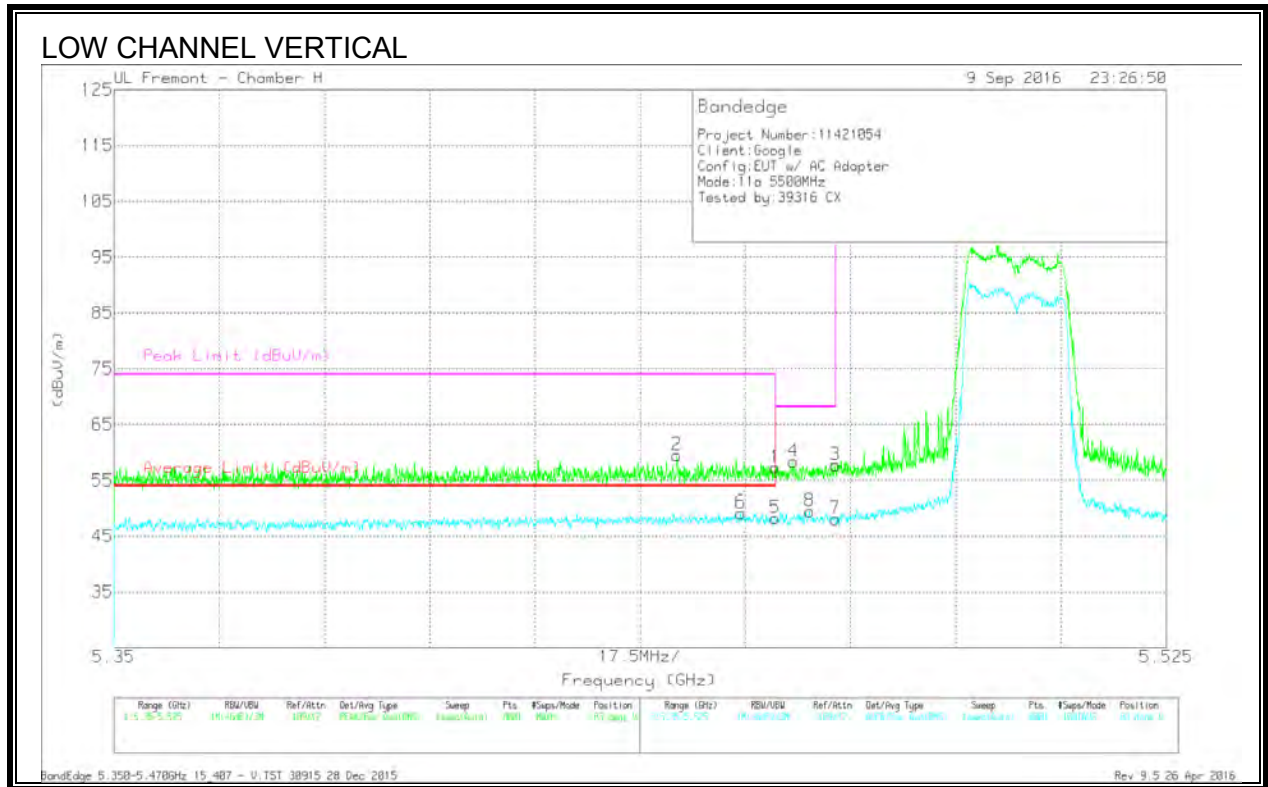
9.1.9. 11a MODE IN THE 5.6GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	38.62	Pk	34.7	-15.8	57.52	-	-	74	-16.48	106	118	H
2	* 5.454	42.03	Pk	34.7	-15.8	60.93	-	-	74	-13.07	106	118	H
5	* 5.46	29.27	RMS	34.7	-15.8	48.17	54	-5.83	-	-	106	118	H
6	* 5.45	30.69	RMS	34.7	-15.7	49.69	54	-4.31	-	-	106	118	H
8	5.469	31.36	RMS	34.7	-15.8	50.26	-	-	-	-	106	118	H
3	5.47	43.58	Pk	34.7	-15.8	62.48	-	-	68.2	-5.72	106	118	H
4	5.47	43.89	Pk	34.7	-15.8	62.79	-	-	68.2	-5.41	106	118	H
7	5.47	30.65	RMS	34.7	-15.8	49.55	-	-	-	-	106	118	H

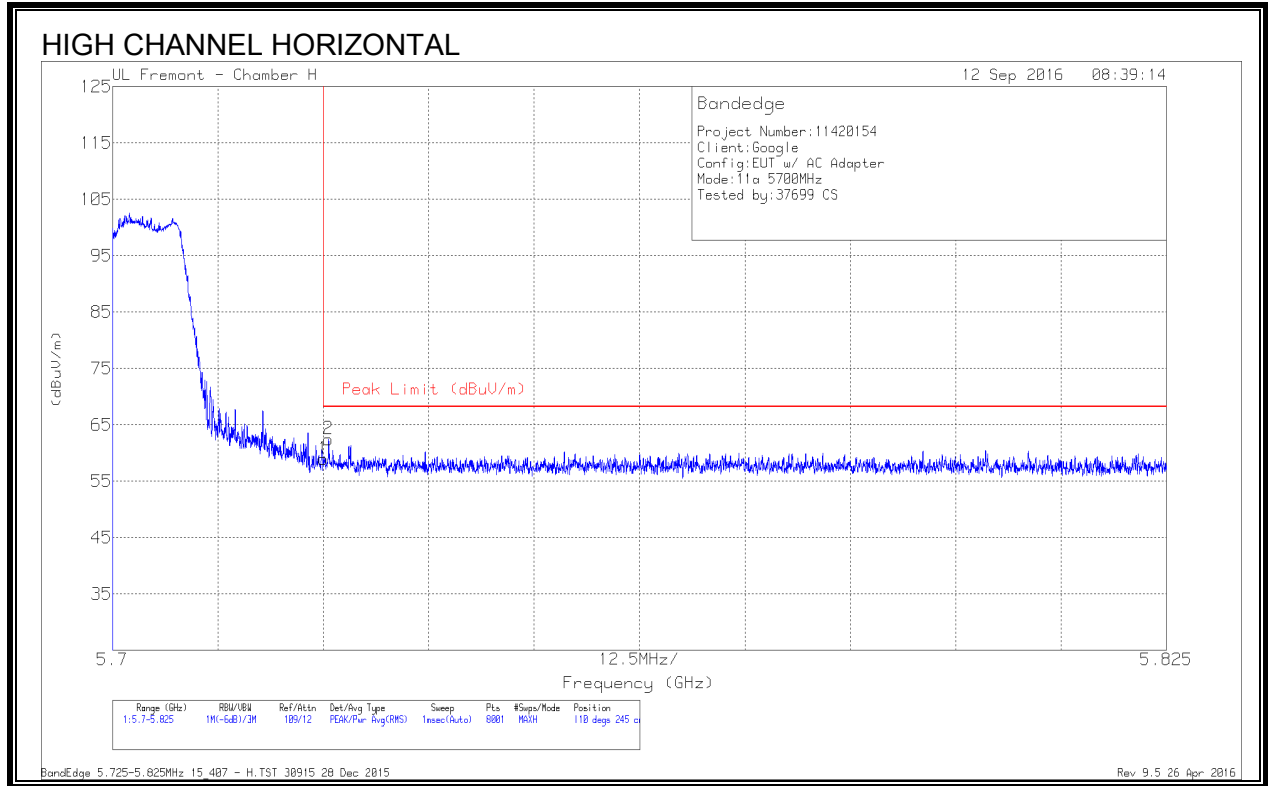
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	38.37	Pk	34.7	-15.8	57.27	-	-	74	-16.73	83	382	V
2	* 5.444	40.61	Pk	34.7	-15.8	59.51	-	-	74	-14.49	83	382	V
5	* 5.46	29.34	RMS	34.7	-15.8	48.24	54	-5.76	-	-	83	382	V
6	* 5.454	30.24	RMS	34.7	-15.8	49.14	54	-4.86	-	-	83	382	V
4	5.463	39.49	Pk	34.7	-15.8	58.39	-	-	68.2	-9.81	83	382	V
8	5.466	30.55	RMS	34.7	-15.8	49.45	-	-	-	-	83	382	V
3	5.47	38.84	Pk	34.7	-15.8	57.74	-	-	68.2	-10.46	83	382	V
7	5.47	29.19	RMS	34.7	-15.8	48.09	-	-	-	-	83	382	V

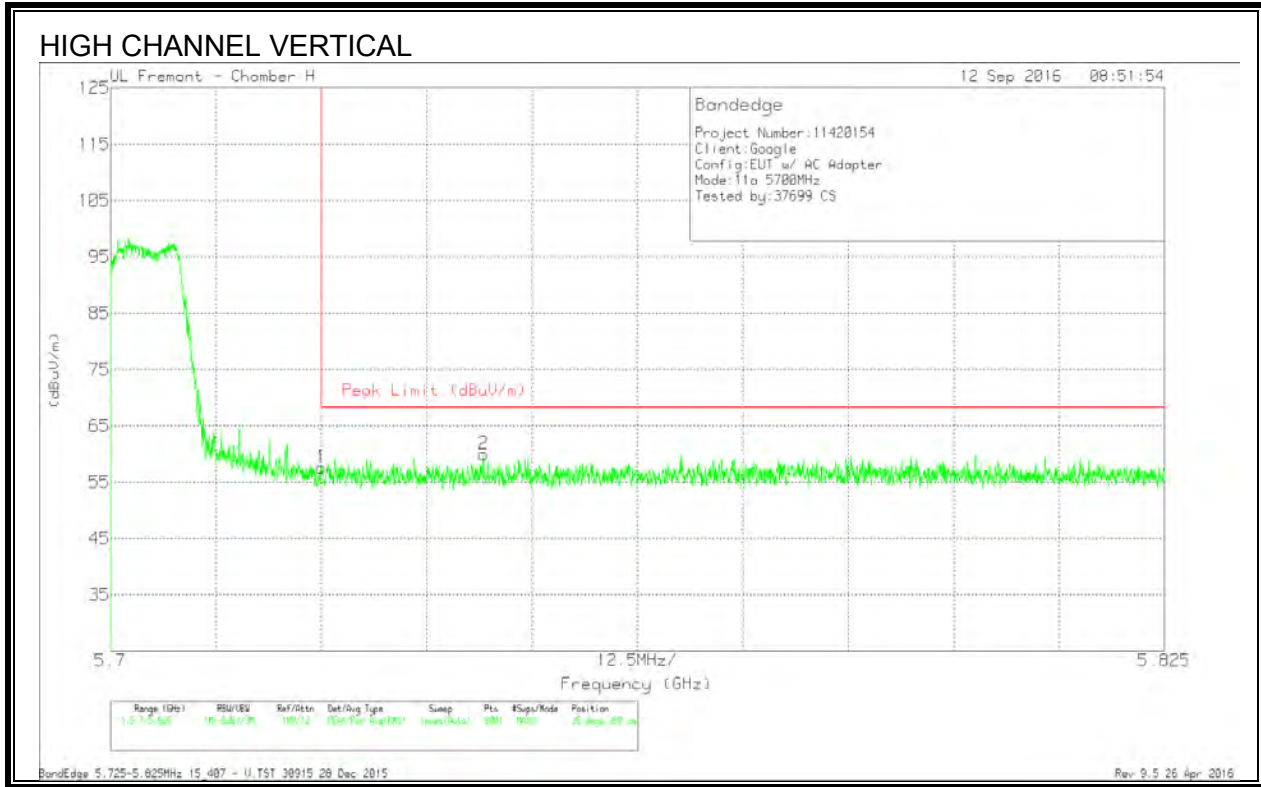
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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	39.12	Pk	34.9	-15.1	58.92	68.2	-9.28	110	245	H
2	5.726	42.64	Pk	34.9	-15.1	62.44	68.2	-5.76	110	245	H

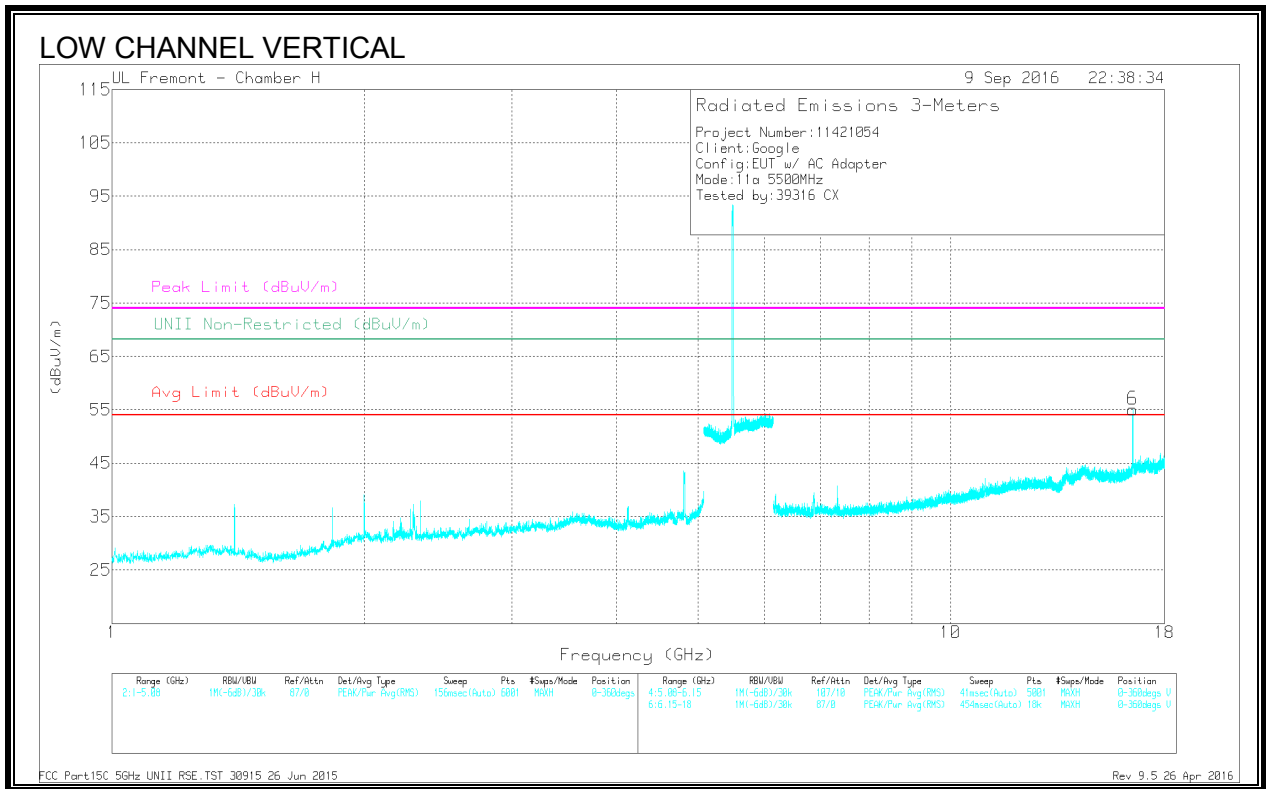
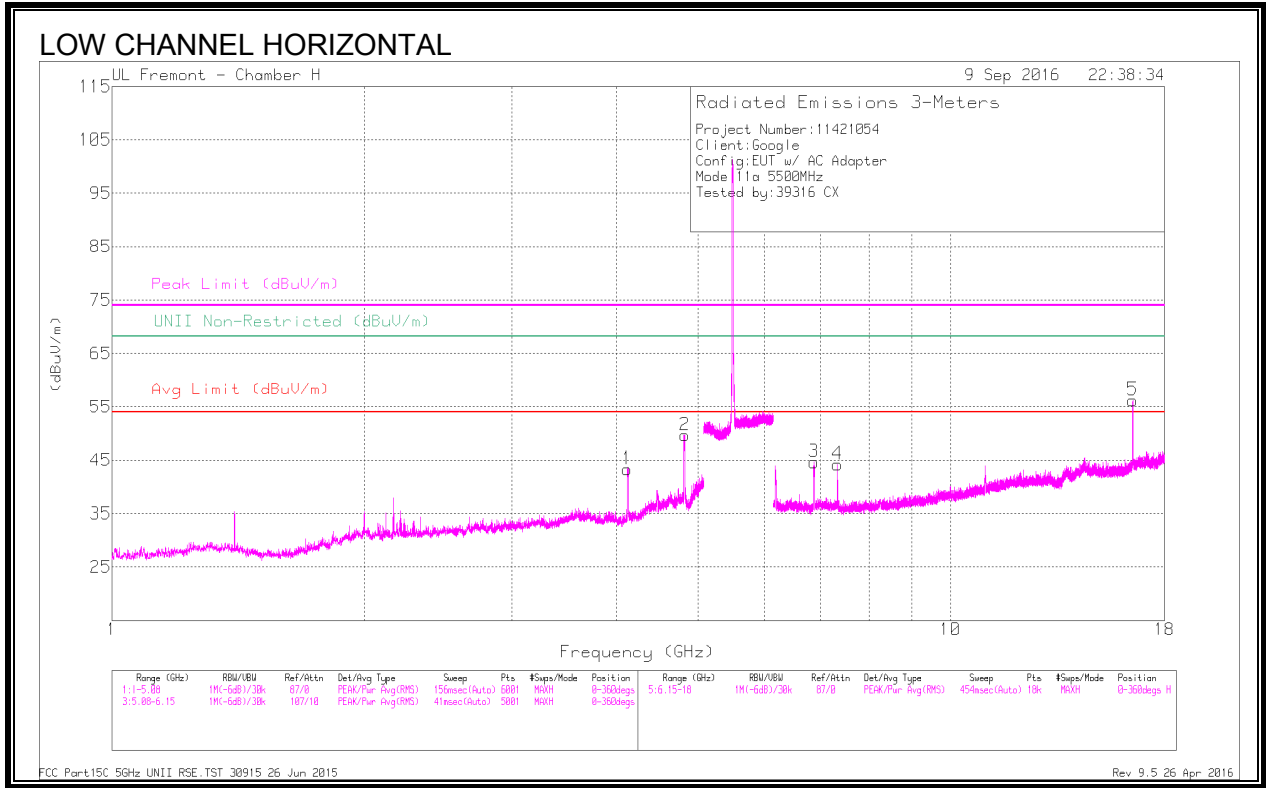
Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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	37.83	Pk	34.9	-15.1	57.63	68.2	-10.57	35	350	V
2	5.744	40.12	Pk	34.9	-15.1	59.92	68.2	-8.28	35	350	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

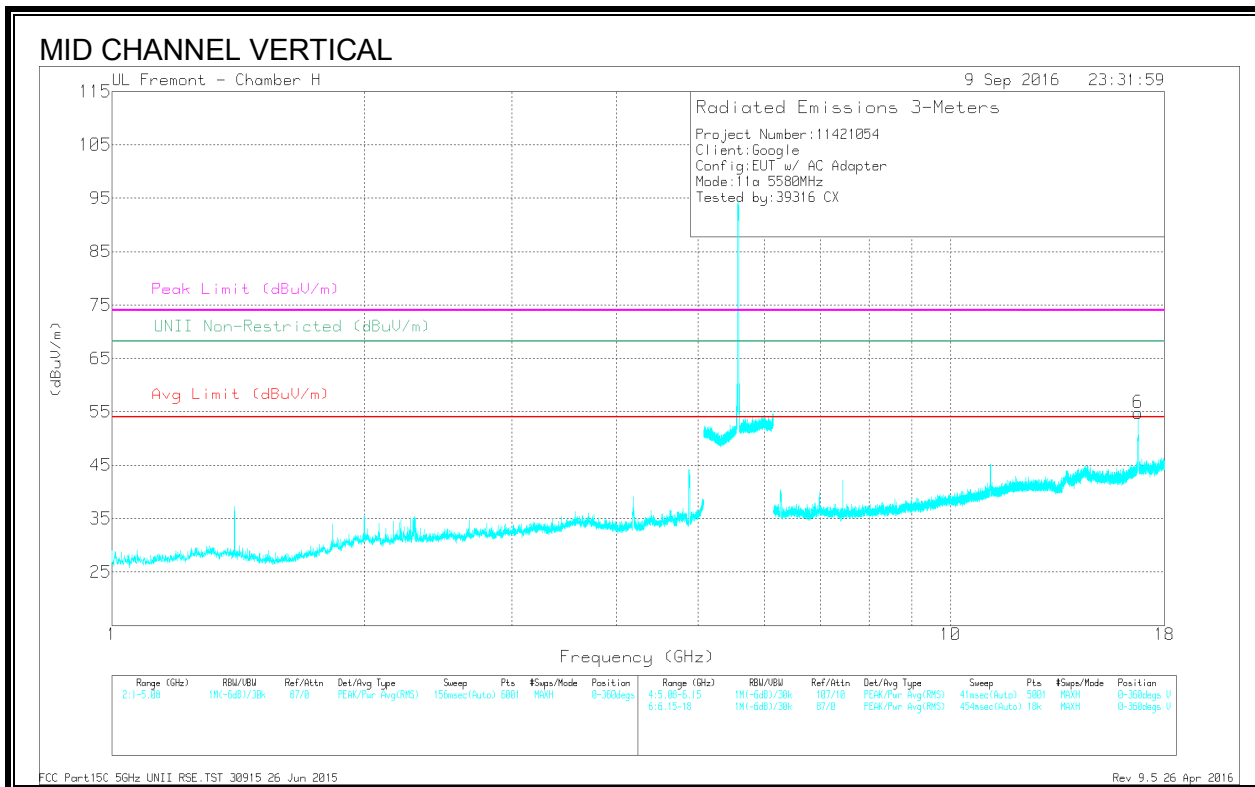
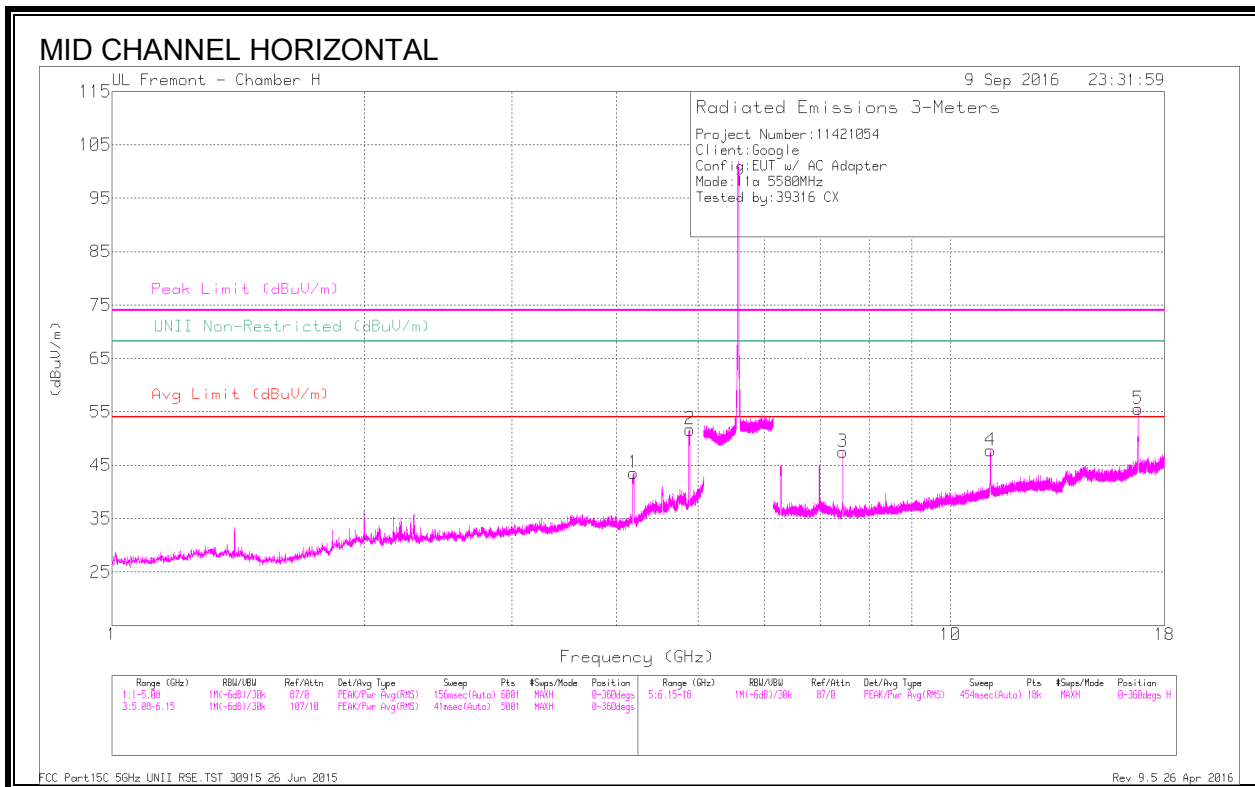


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.127	52.06	PK-U	33.5	-35.4	50.16	-	-	74	-23.84	-	-	98	111	H
	* 4.127	43.92	ADR	33.5	-35.4	42.02	54	-11.98	-	-	-	-	98	111	H
2	* 4.815	56.28	PK-U	34	-34.5	55.78	-	-	74	-18.22	-	-	96	101	H
	* 4.82	49.16	ADR	34	-34.5	48.66	54	-5.34	-	-	-	-	96	101	H
4	* 7.333	45.93	PK-U	35.7	-31.6	50.03	-	-	74	-23.97	-	-	94	103	H
	* 7.333	39.55	ADR	35.7	-31.6	43.65	54	-10.35	-	-	-	-	94	103	H
3	6.872	47.35	PK-U	35.7	-31.9	51.15	-	-	-	-	68.2	-17.05	91	114	H
5	16.488	46.14	PK-U	41.1	-25.4	61.84	-	-	-	-	68.2	-6.36	349	100	V
6	16.496	47.63	PK-U	41.1	-25.3	63.43	-	-	-	-	68.2	-4.77	87	100	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

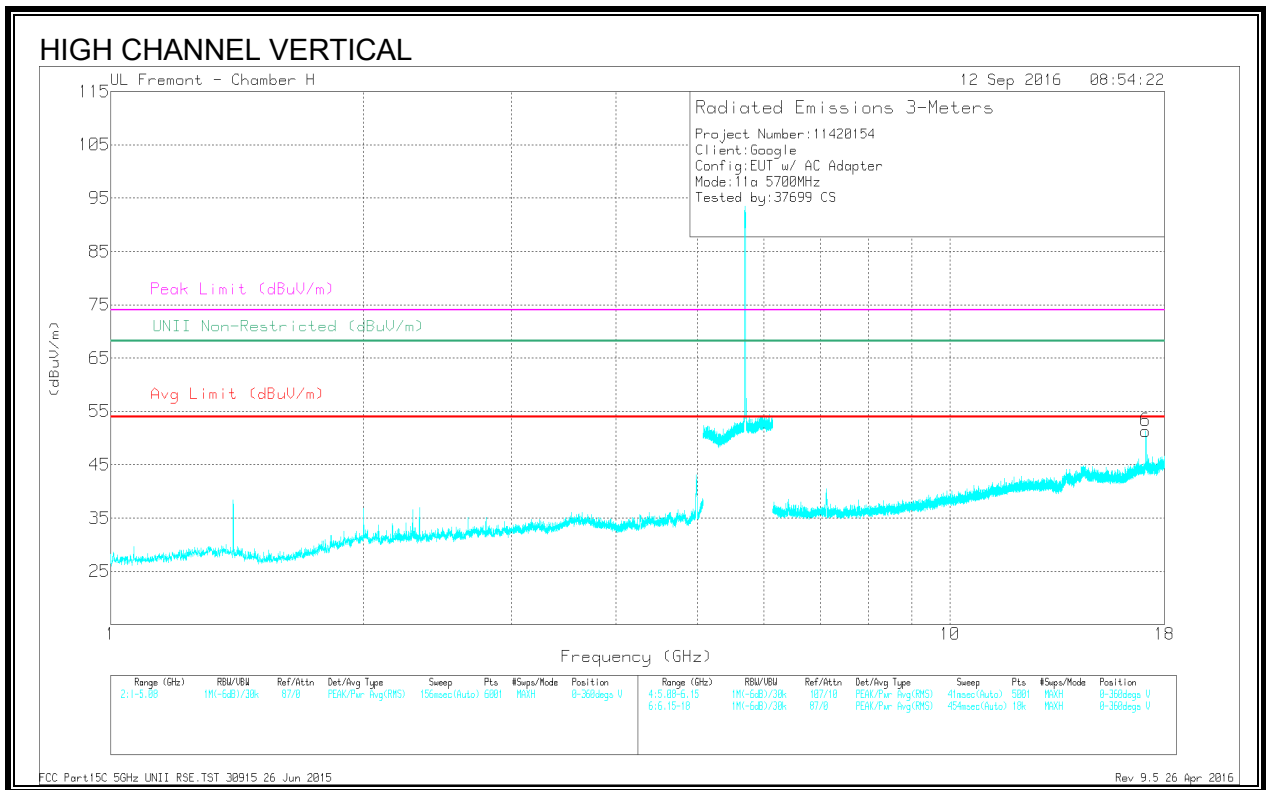
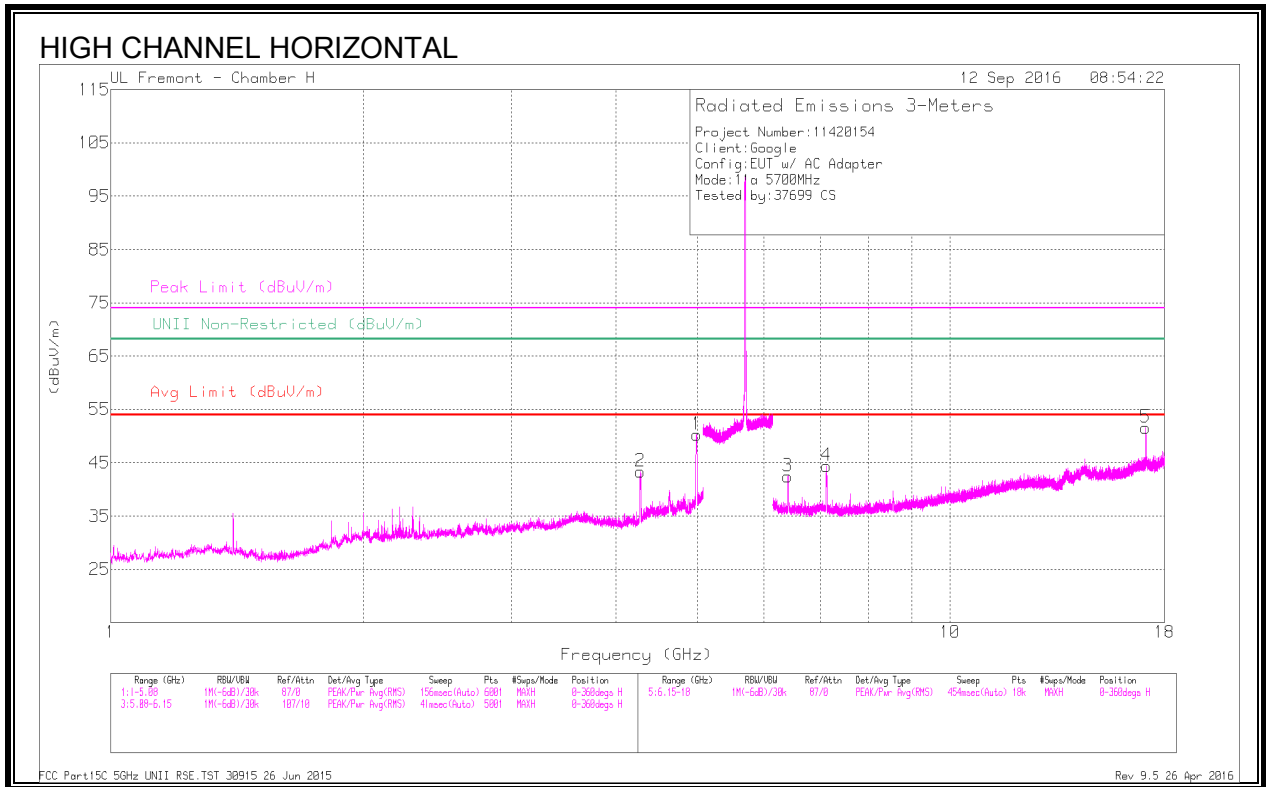


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.192	51.05	PK-U	33.5	-34.9	49.65	-	-	74	-24.35	-	-	102	155	H
	* 4.188	42.43	ADR	33.5	-34.9	41.03	54	-12.97	-	-	-	-	102	155	H
2	* 4.879	58.72	PK-U	34	-34.1	58.62	-	-	74	-15.38	-	-	90	106	H
	* 4.875	51.1	ADR	34	-34.1	51	54	-3	-	-	-	-	90	106	H
3	* 7.44	48.92	PK-U	35.7	-31.9	52.72	-	-	74	-21.28	-	-	39	134	H
	* 7.44	43.16	ADR	35.7	-31.9	46.96	54	-7.04	-	-	-	-	39	134	H
4	* 11.163	46.44	PK-U	38.4	-27.6	57.24	-	-	74	-16.76	-	-	276	100	H
	* 11.158	34.47	ADR	38.4	-27.7	45.17	54	-8.83	-	-	-	-	276	100	H
6	16.731	45.28	PK-U	41.4	-24.9	61.78	-	-	-	-	68.2	-6.42	98	101	V
5	16.742	45.17	PK-U	41.4	-24.7	61.87	-	-	-	-	68.2	-6.33	82	105	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



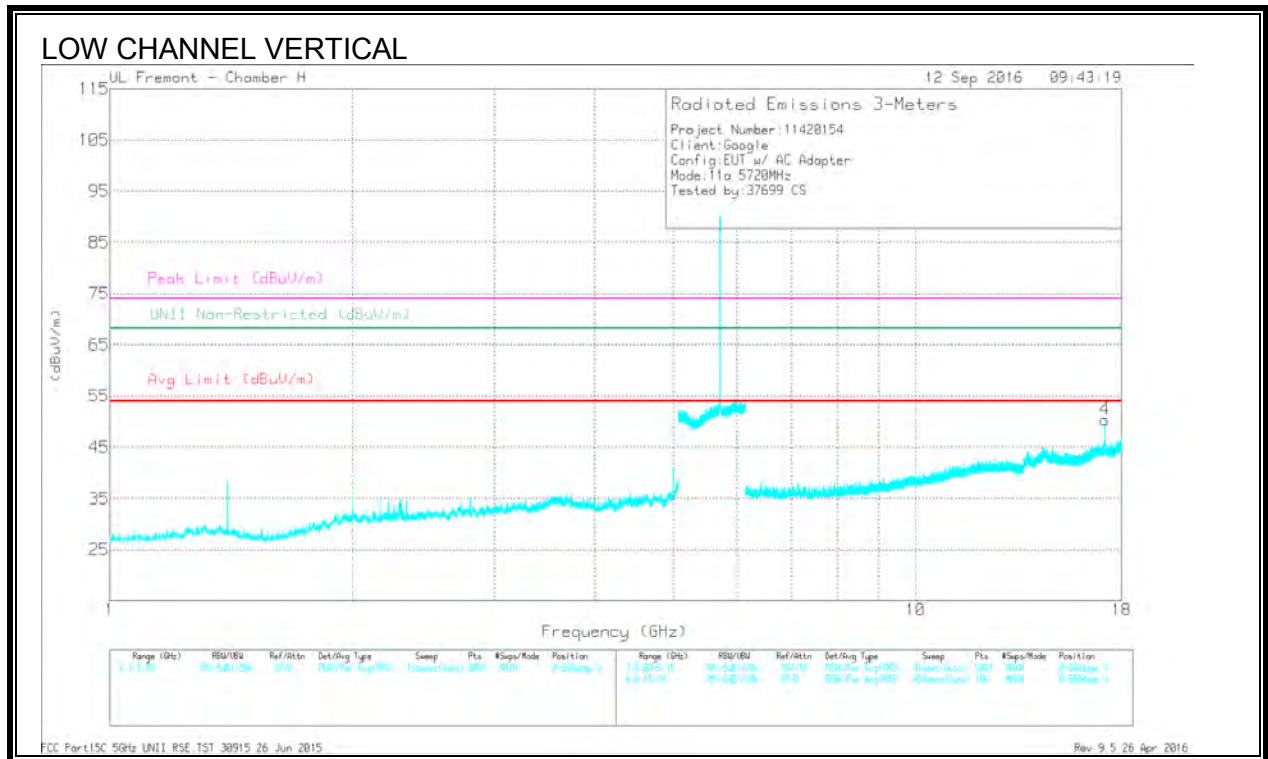
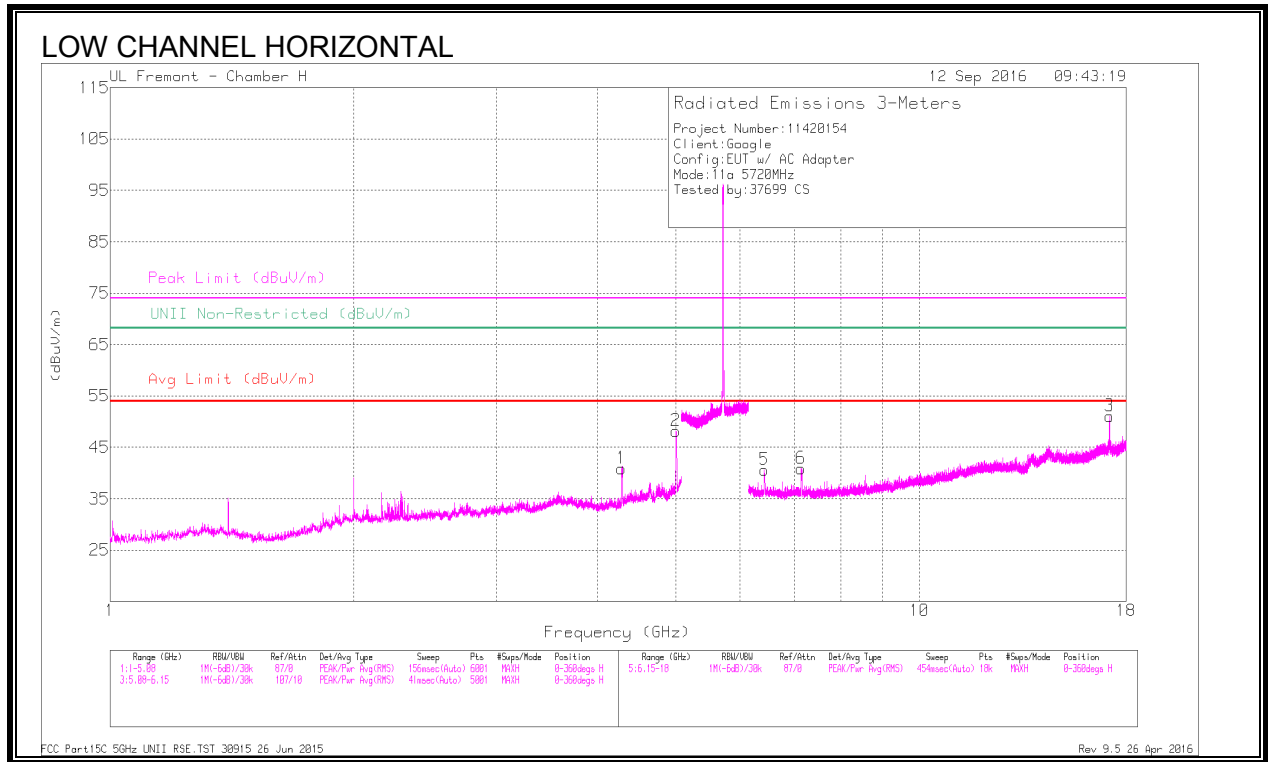
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.995	55.05	PK-U	34.1	-33.2	55.95	-	-	74	-18.05	-	-	89	138	H
	* 4.98	47.35	ADR	34.1	-33.1	48.35	54	-5.65	-	-	-	-	89	138	H
2	* 4.274	49.58	PK-U	33.4	-35.1	47.88	-	-	74	-26.12	-	-	96	361	H
	* 4.283	41.25	ADR	33.4	-35.2	39.45	54	-14.55	-	-	-	-	96	361	H
3	6.42	45.11	PK-U	35.7	-32	48.81	-	-	-	-	68.2	-19.39	54	122	H
4	7.121	45.69	PK-U	35.7	-31.8	49.59	-	-	-	-	68.2	-18.61	87	100	H
6	17.097	42.95	PK-U	41.1	-24.8	59.25	-	-	-	-	68.2	-8.95	80	101	V
5	17.102	41.26	PK-U	41.1	-24.9	57.46	-	-	-	-	68.2	-10.74	101	115	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

9.1.10. 11a STRADDLE CHANNEL 144 HARMONICS AND SPURIOUS EMISSIONS



Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/CbI/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.297	49.34	PK-U	33.4	-35.2	47.54	-	-	74	-26.46	-	-	93	101	H
	* 4.298	40.5	ADR	33.4	-35.2	38.7	54	-15.3	-	-	-	-	93	101	H
2	* 5.013	53.31	PK-U	34.1	-33.3	54.11	-	-	74	-19.89	-	-	87	108	H
	* 5.013	45.73	ADR	34.1	-33.3	46.53	54	-7.47	-	-	-	-	87	108	H
5	6.431	43.79	PK-U	35.7	-32	47.49	-	-	-	-	68.2	-20.71	51	127	H
6	7.151	43.88	PK-U	35.7	-31.8	47.78	-	-	-	-	68.2	-20.42	87	121	H
4	17.159	39.95	PK-U	41	-24.5	56.45	-	-	-	-	68.2	-11.75	89	104	V
3	17.162	41.03	PK-U	40.9	-24.6	57.33	-	-	-	-	68.2	-10.87	340	100	H

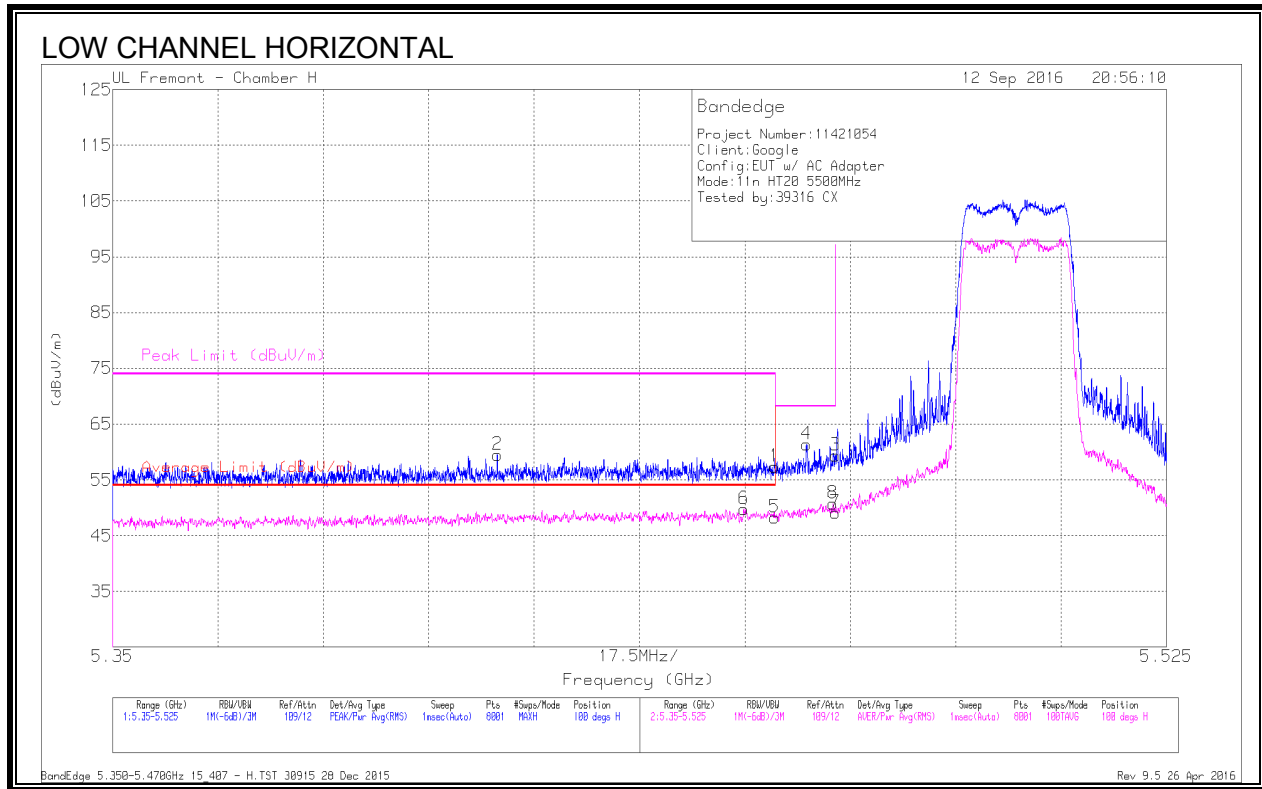
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

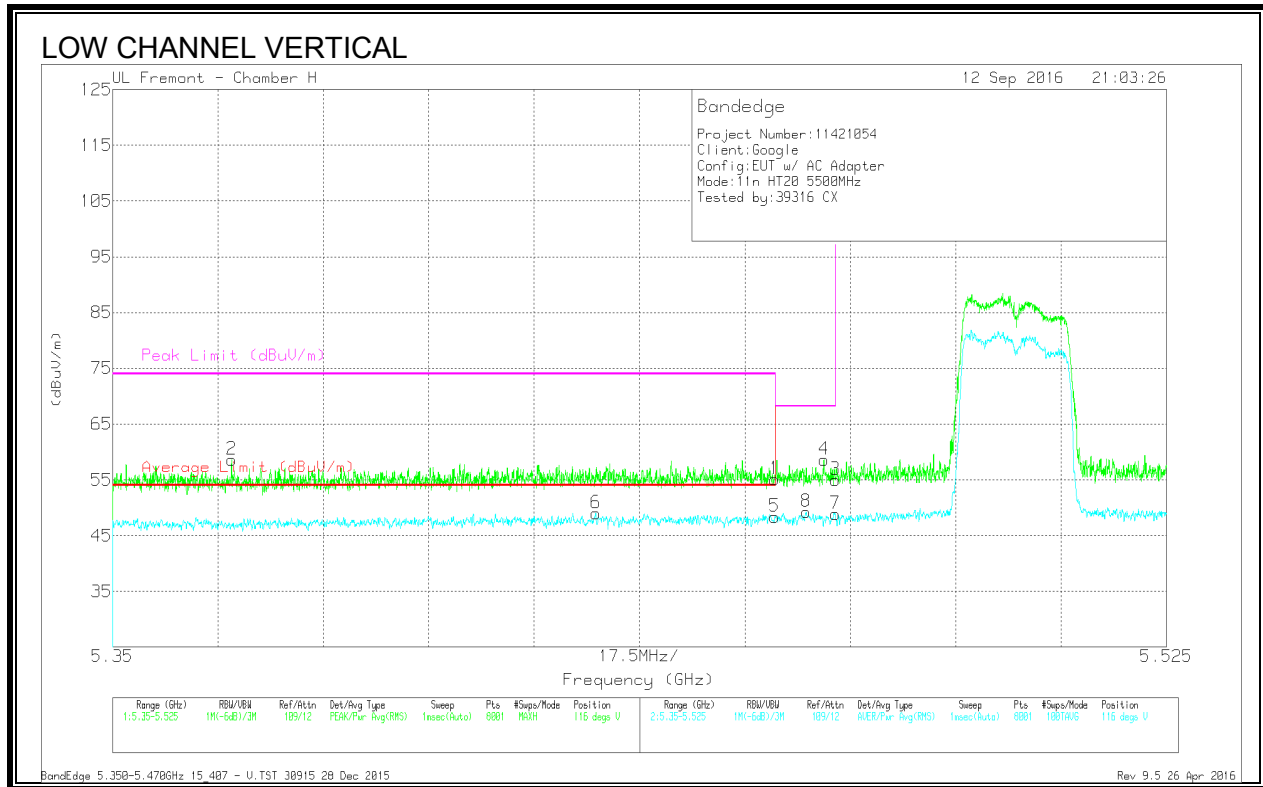
9.1.11. 11n HT20 MODE IN THE 5.6GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	38.52	Pk	34.7	-15.8	57.42	-	-	74	-16.58	100	121	H
2	* 5.414	40.57	Pk	34.6	-15.7	59.47	-	-	74	-14.53	100	121	H
5	* 5.46	29.42	RMS	34.7	-15.8	48.32	54	-5.68	-	-	100	121	H
6	* 5.455	30.87	RMS	34.7	-15.8	49.77	54	-4.23	-	-	100	121	H
4	5.465	42.43	Pk	34.7	-15.8	61.33	-	-	68.2	-6.87	100	121	H
3	5.47	40.52	Pk	34.7	-15.8	59.42	-	-	68.2	-8.78	100	121	H
7	5.47	30.23	RMS	34.7	-15.8	49.13	-	-	-	-	100	121	H
8	5.47	31.84	RMS	34.7	-15.8	50.74	-	-	-	-	100	121	H

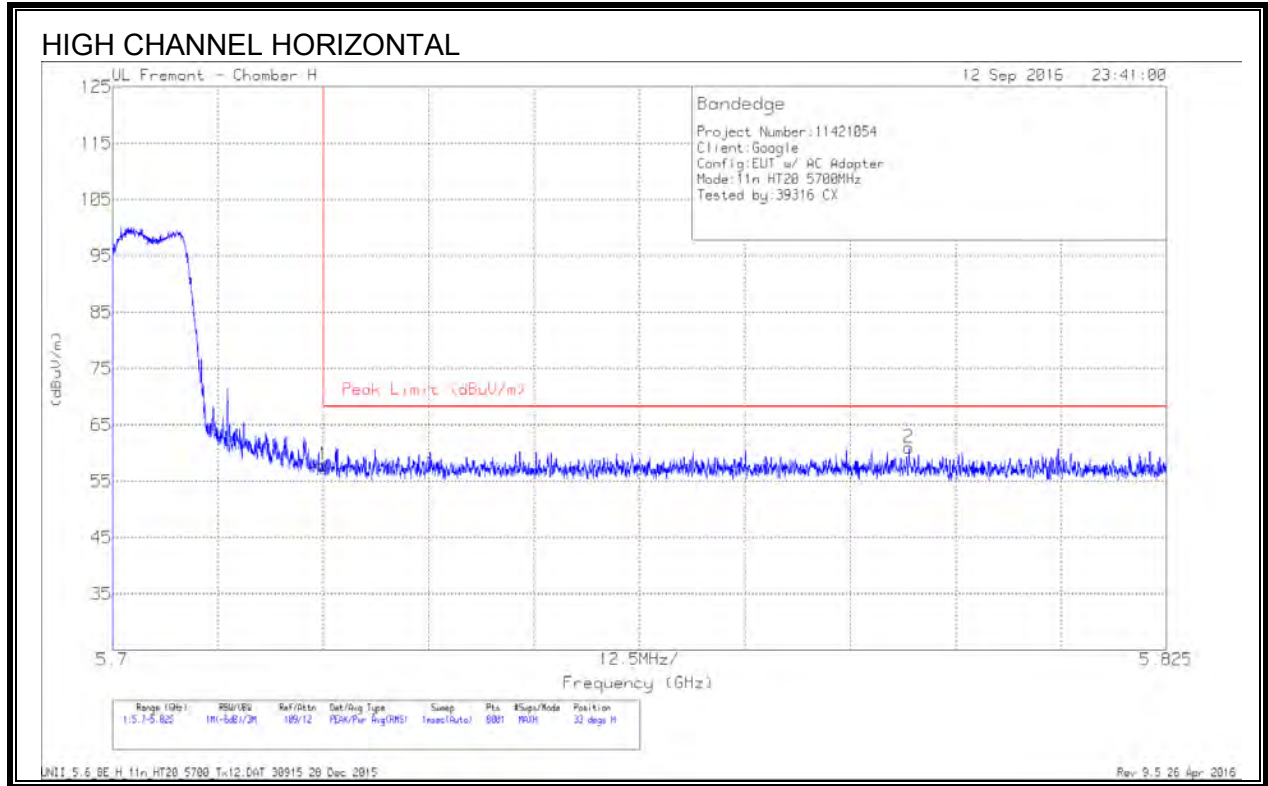
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	36.27	Pk	34.7	-15.8	55.17	-	-	74	-18.83	116	391	V
2	* 5.37	39.96	Pk	34.6	-15.9	58.66	-	-	74	-15.34	116	391	V
5	* 5.46	29.5	RMS	34.7	-15.8	48.4	54	-5.6	-	-	116	391	V
6	* 5.43	30.12	RMS	34.6	-15.7	49.02	54	-4.98	-	-	116	391	V
8	5.465	30.34	RMS	34.7	-15.8	49.24	-	-	-	-	116	391	V
4	5.468	39.72	Pk	34.7	-15.8	58.62	-	-	68.2	-9.58	116	391	V
3	5.47	36.07	Pk	34.7	-15.8	54.97	-	-	68.2	-13.23	116	391	V
7	5.47	30.03	RMS	34.7	-15.8	48.93	-	-	-	-	116	391	V

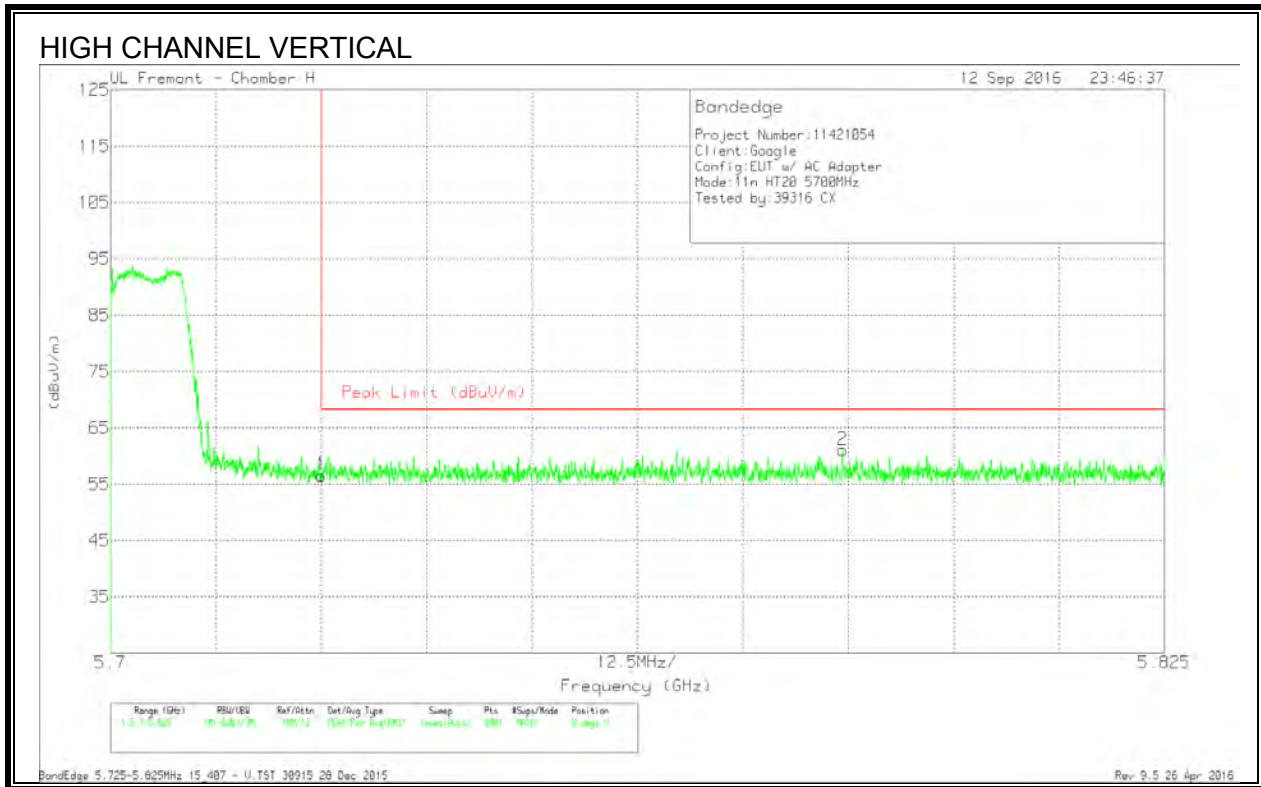
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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	38.11	Pk	34.9	-15.1	57.91	68.2	-10.29	33	177	H
2	5.794	40.9	Pk	34.9	-14.8	61	68.2	-7.2	33	177	H

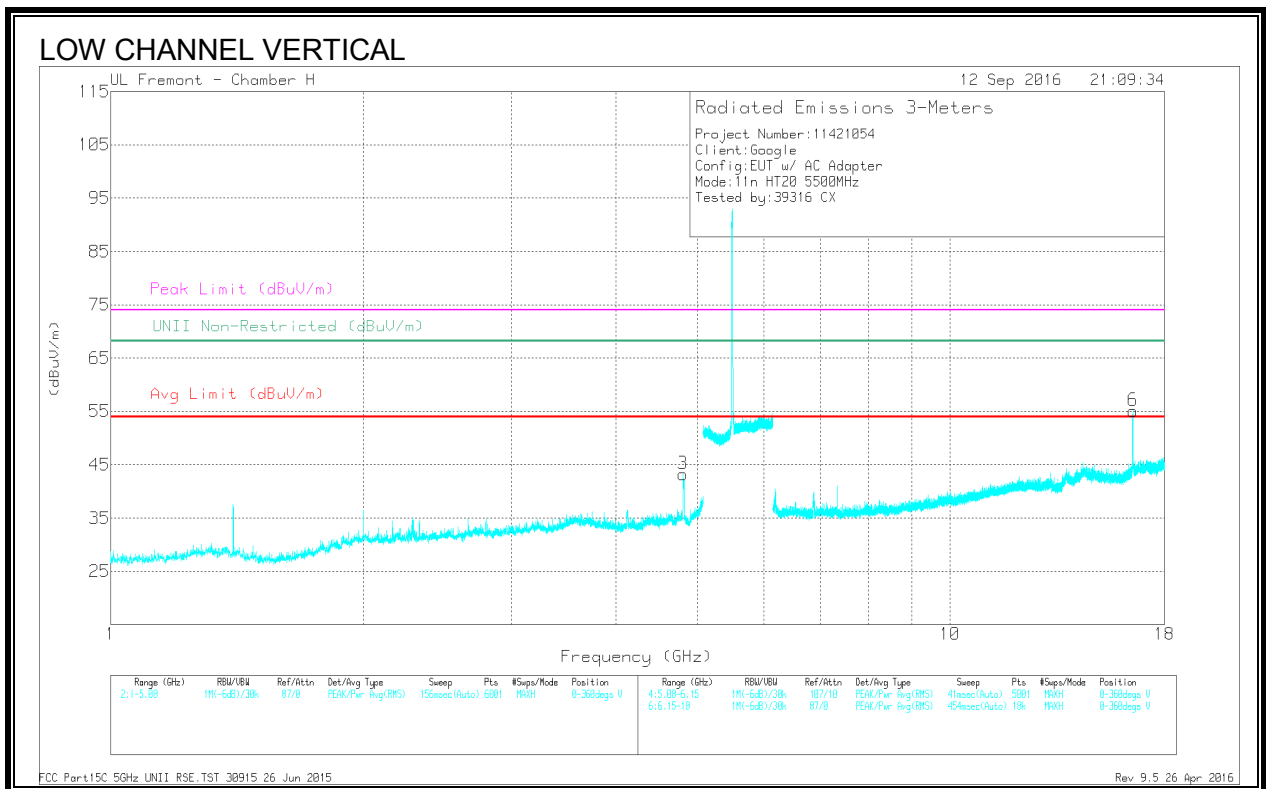
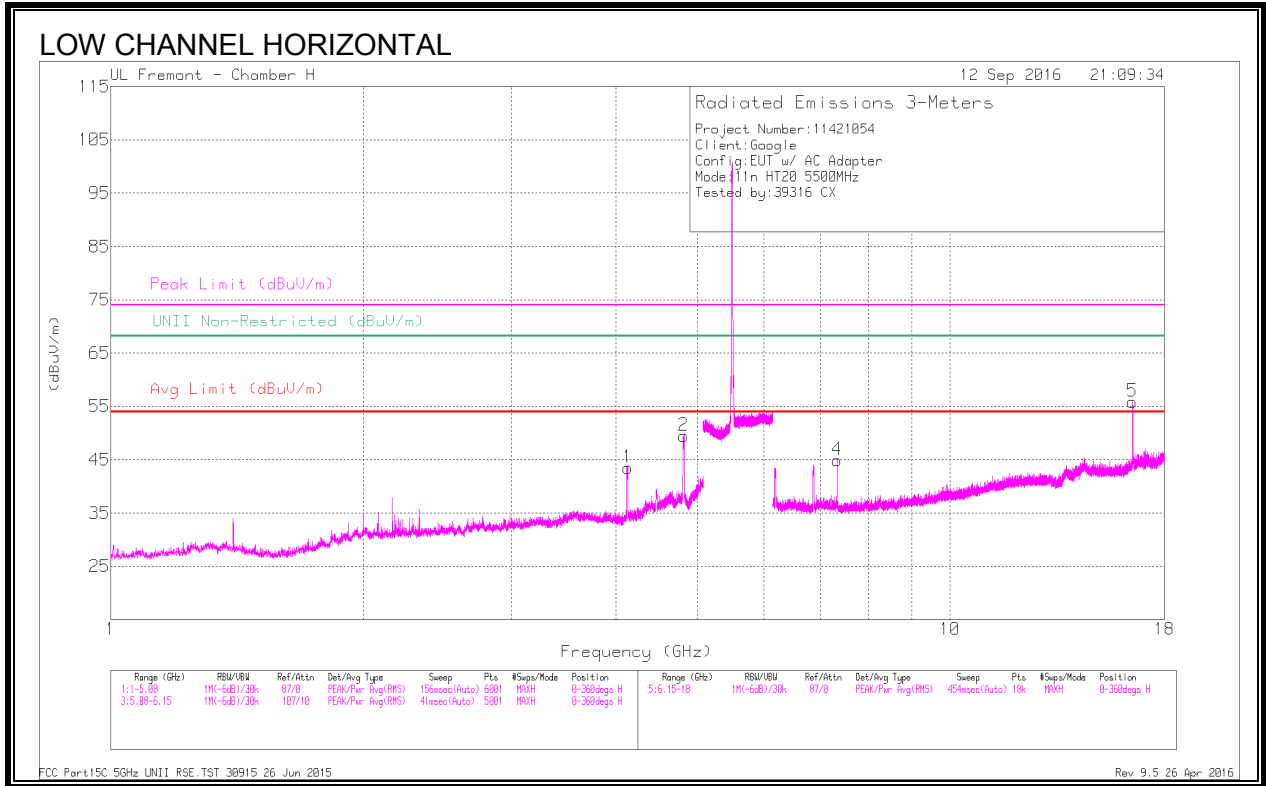
Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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	36.69	Pk	34.9	-15.1	56.49	68.2	-11.71	0	310	V
2	5.787	41.02	Pk	34.9	-14.8	61.12	68.2	-7.08	0	310	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

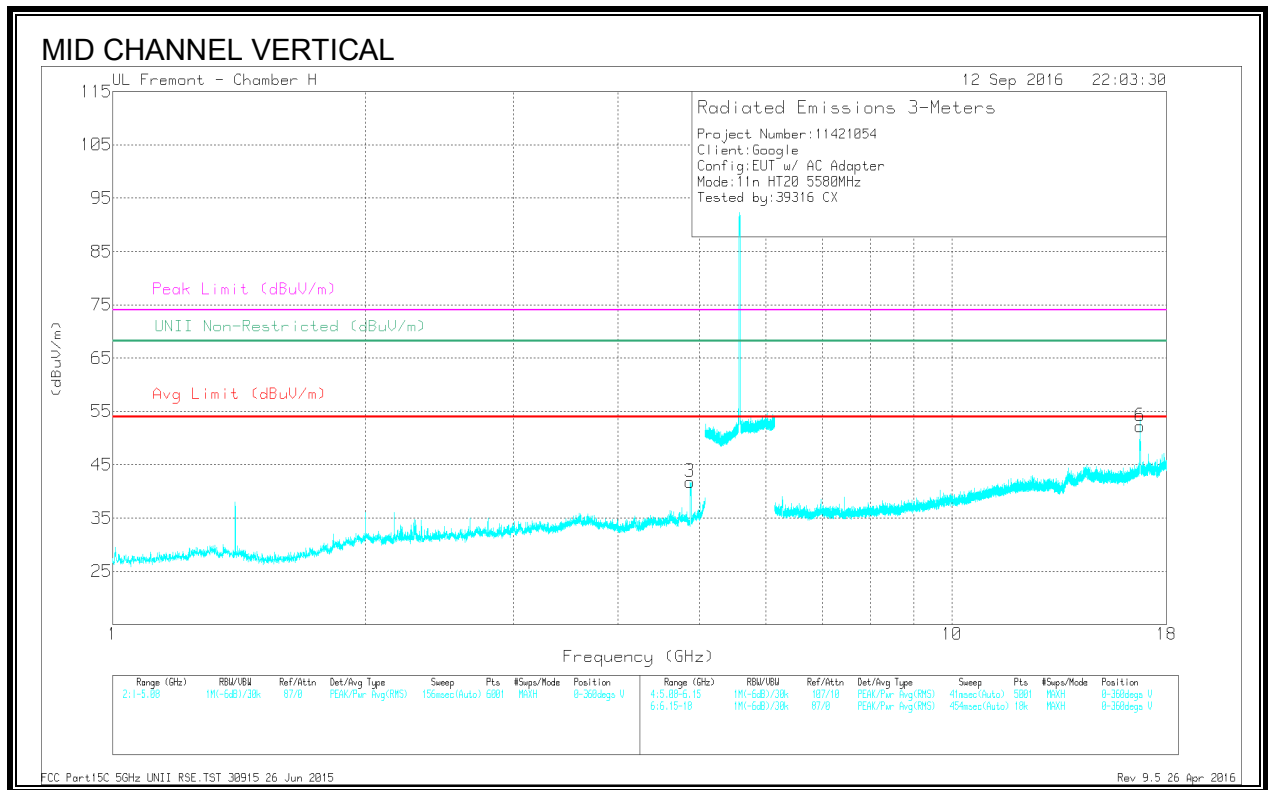
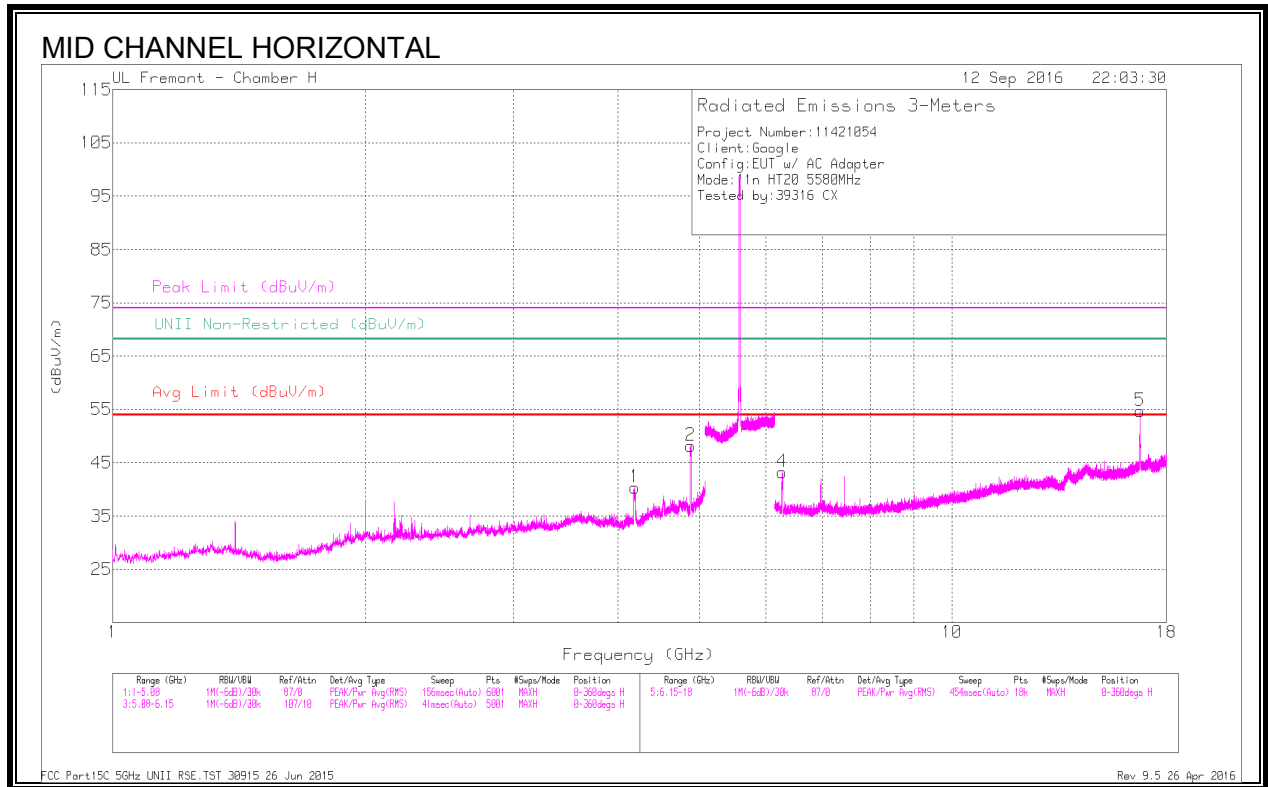


Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF 1120 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.133	50.73	PK-U	33.5	-35.4	48.83	-	-	74	-25.17	-	-	82	100	H
	* 4.133	42.62	ADR	33.5	-35.4	40.72	54	-13.28	-	-	-	-	82	100	H
2	* 4.816	56.98	PK-U	34	-34.5	56.48	-	-	74	-17.52	-	-	87	103	H
	* 4.82	48.67	ADR	34	-34.5	48.17	54	-5.83	-	-	-	-	87	103	H
3	* 4.815	52.92	PK-U	34	-34.5	52.42	-	-	74	-21.58	-	-	228	246	V
	* 4.82	44.3	ADR	34	-34.5	43.8	54	-10.2	-	-	-	-	228	246	V
4	* 7.333	46.07	PK-U	35.7	-31.6	50.17	-	-	74	-23.83	-	-	93	105	H
	* 7.333	40.35	ADR	35.7	-31.6	44.45	54	-9.55	-	-	-	-	93	105	H
5	16.497	46.75	PK-U	41.1	-25.3	62.55	-	-	-	-	68.2	-5.65	344	100	V
6	16.508	48.3	PK-U	41.1	-25.3	64.1	-	-	-	-	68.2	-4.1	79	100	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

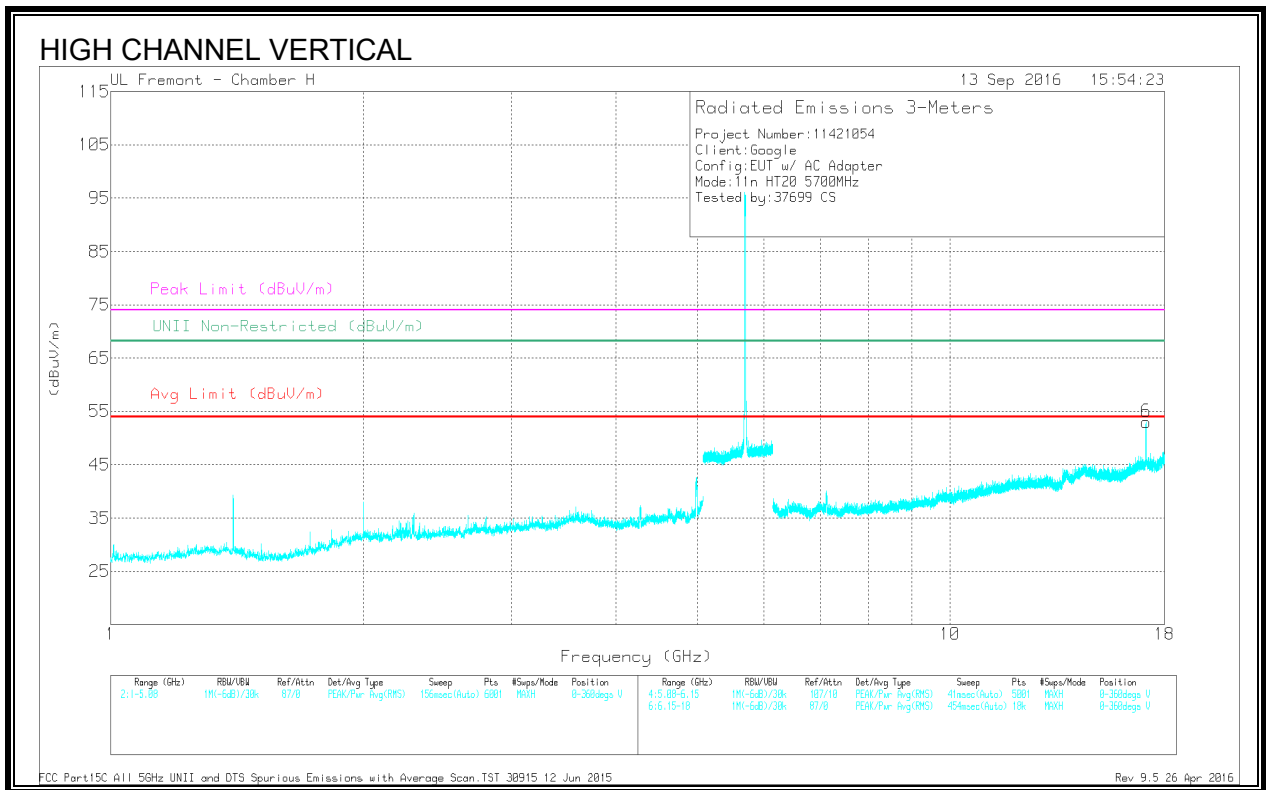
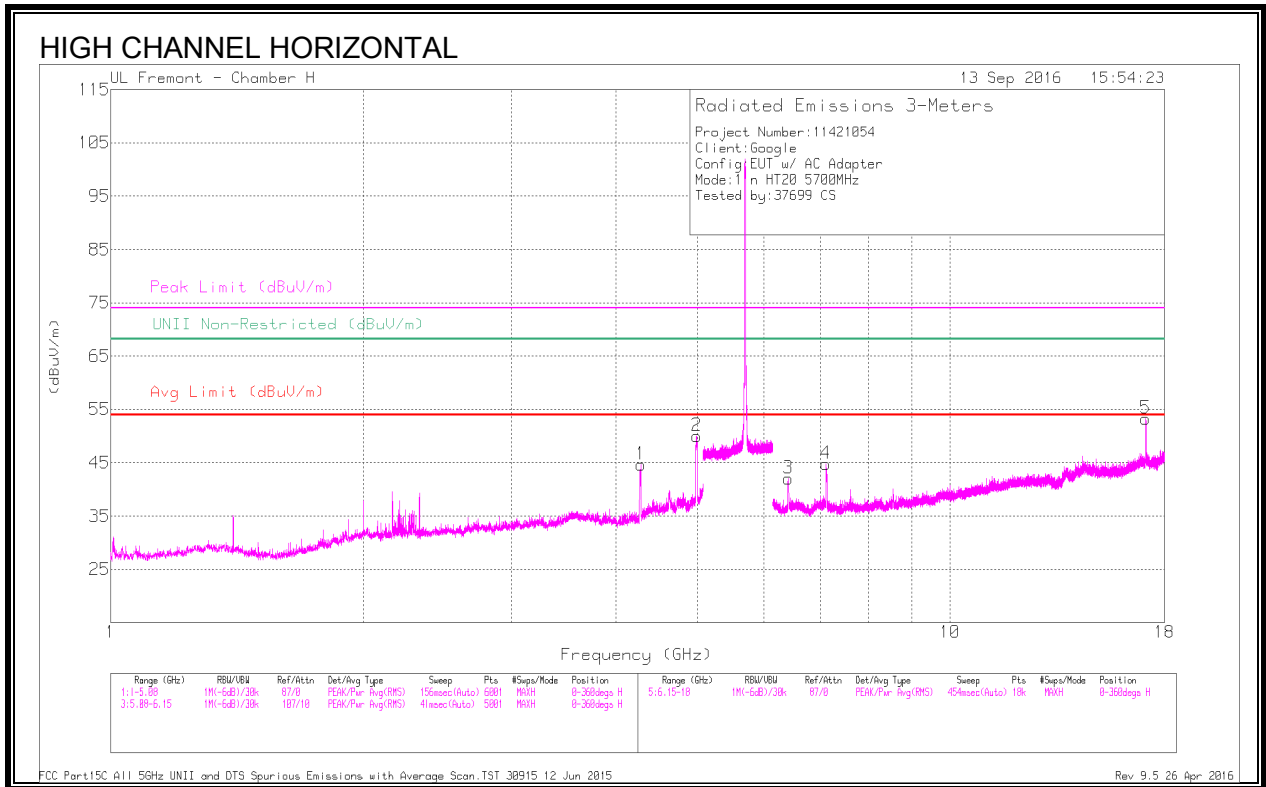


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.177	49.28	PK-U	33.5	-35	47.78	-	-	74	-26.22	-	-	86	124	H
	* 4.188	39.58	ADR	33.5	-34.9	38.18	54	-15.82	-	-	-	-	86	124	H
2	* 4.874	56.4	PK-U	34	-34.1	56.3	-	-	74	-17.7	-	-	92	107	H
	* 4.875	48.3	ADR	34	-34.1	48.2	54	-5.8	-	-	-	-	92	107	H
3	* 4.875	51.85	PK-U	34	-34.1	51.75	-	-	74	-22.25	-	-	231	272	V
	* 4.875	43.31	ADR	34	-34.1	43.21	54	-10.79	-	-	-	-	231	272	V
4	6.27	47.39	PK-U	35.5	-32.1	50.79	-	-	-	-	68.2	-17.41	51	143	H
6	16.732	43.61	PK-U	41.4	-24.9	60.31	-	-	-	-	68.2	-7.89	90	101	V
5	16.741	44.13	PK-U	41.4	-24.7	60.83	-	-	-	-	68.2	-7.37	76	100	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



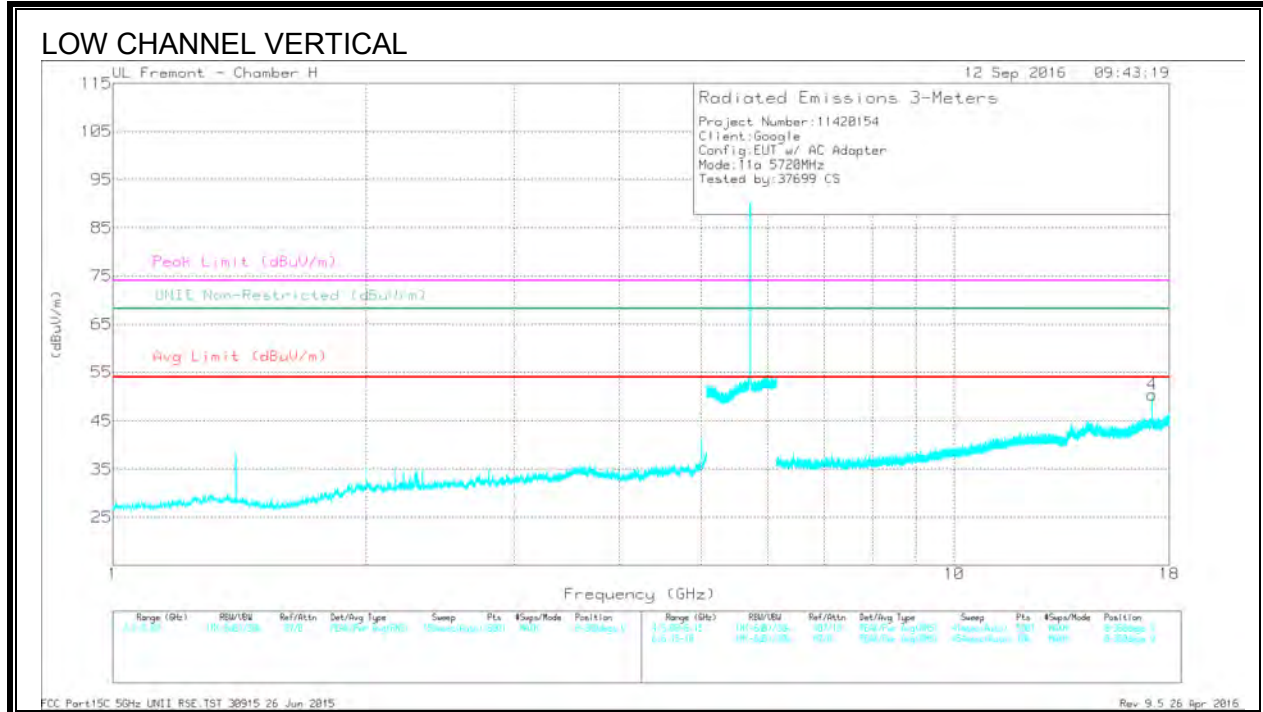
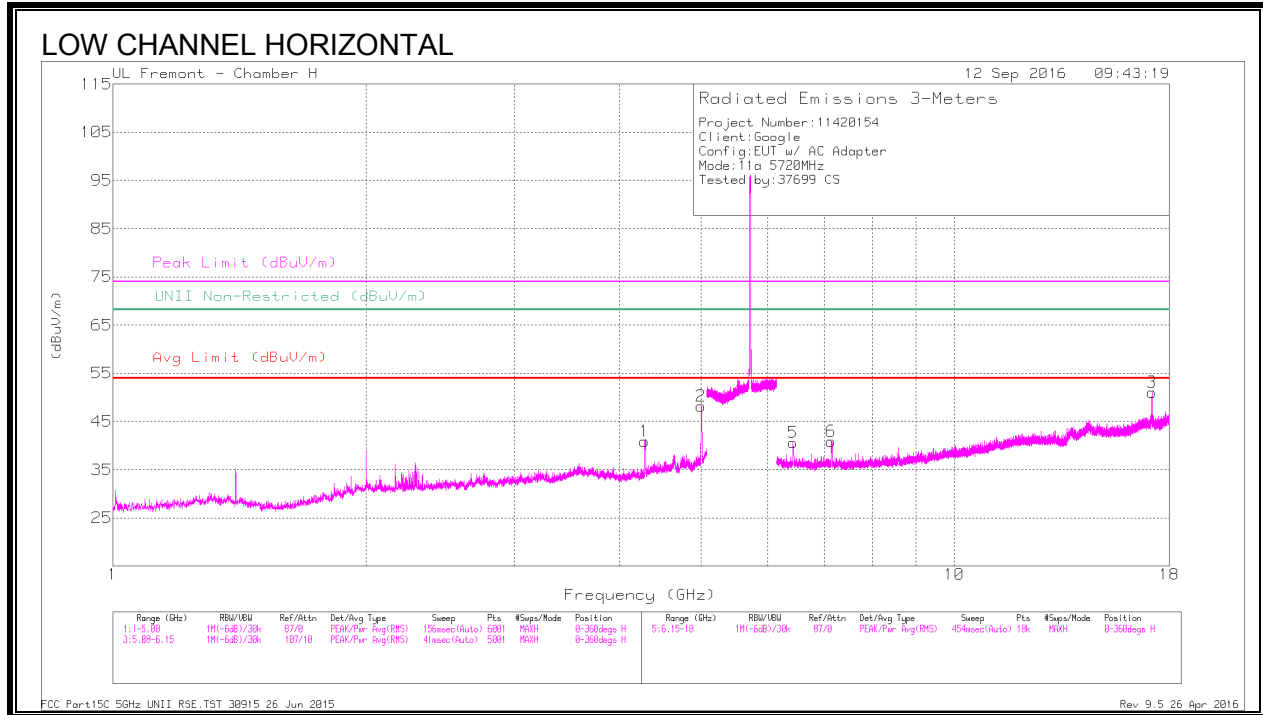
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.278	51.8	PK-U	33.4	-35.1	50.1	-	-	74	-23.9	-	-	84	103	H
	* 4.282	43.6	ADR	33.4	-35.2	41.8	54	-12.2	-	-	-	-	84	103	H
2	* 4.991	55.25	PK-U	34.1	-33.1	56.25	-	-	74	-17.75	-	-	78	168	H
	* 4.995	47.36	ADR	34.1	-33.2	48.26	54	-5.74	-	-	-	-	78	168	H
3	6.405	44.56	PK-U	35.7	-32.2	48.06	-	-	-	-	68.2	-20.14	64	116	H
4	7.122	46.17	PK-U	35.7	-31.8	50.07	-	-	-	-	68.2	-18.13	80	116	H
5	17.1	43.74	PK-U	41.1	-24.9	59.94	-	-	-	-	68.2	-8.26	13	102	H
6	17.104	43.06	PK-U	41.1	-24.9	59.26	-	-	-	-	68.2	-8.94	80	100	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

9.1.12. 11n HT20 STRADDLE CHANNEL 144 HARMONICS AND SPURIOUS EMISSIONS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.297	49.34	PK-U	33.4	-35.2	47.54	-	-	74	-26.46	-	-	93	101	H
	* 4.298	40.5	ADR	33.4	-35.2	38.7	54	-15.3	-	-	-	-	93	101	H
2	* 5.013	53.31	PK-U	34.1	-33.3	54.11	-	-	74	-19.89	-	-	87	108	H
	* 5.013	45.73	ADR	34.1	-33.3	46.53	54	-7.47	-	-	-	-	87	108	H
5	6.431	43.79	PK-U	35.7	-32	47.49	-	-	-	-	68.2	-20.71	51	127	H
6	7.151	43.88	PK-U	35.7	-31.8	47.78	-	-	-	-	68.2	-20.42	87	121	H
4	17.159	39.95	PK-U	41	-24.5	56.45	-	-	-	-	68.2	-11.75	89	104	V
3	17.162	41.03	PK-U	40.9	-24.6	57.33	-	-	-	-	68.2	-10.87	340	100	H

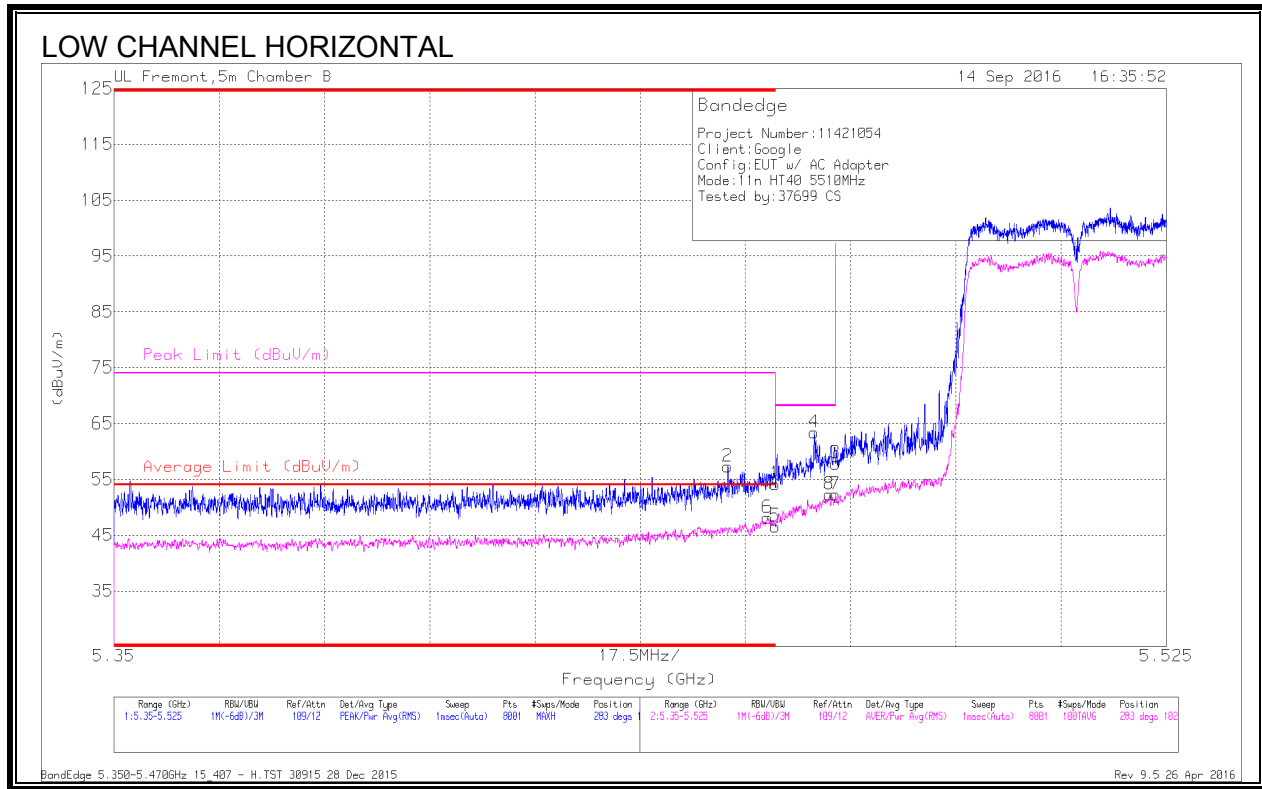
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

9.1.13. 11n HT40 MODE IN THE 5.6GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

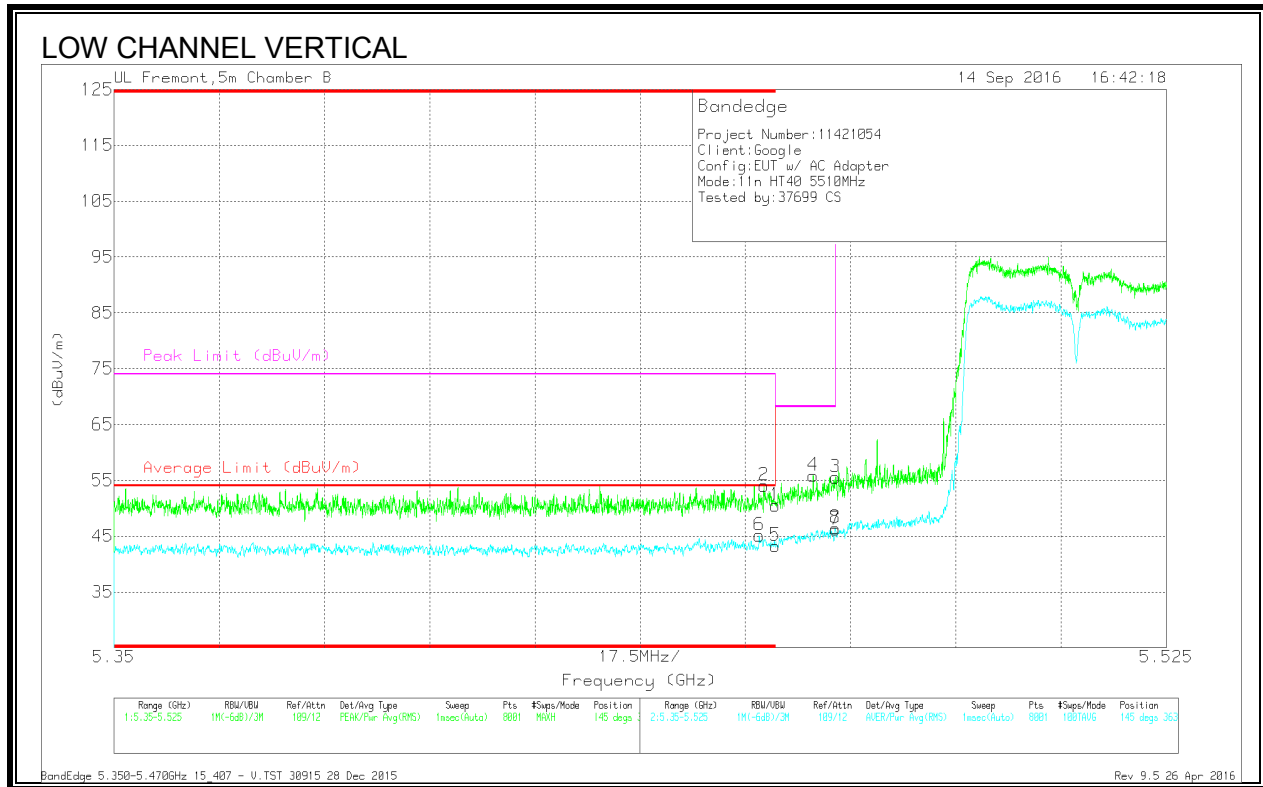


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.452	43.4	Pk	34.5	-20.6	57.3	-	-	74	-16.7	283	102	H
6	* 5.459	34.24	RMS	34.5	-20.6	48.14	54	-5.86	-	-	283	102	H
1	* 5.46	40.67	Pk	34.5	-21	54.17	-	-	74	-19.83	283	102	H
5	* 5.46	33.06	RMS	34.5	-21	46.56	54	-7.44	-	-	283	102	H
4	5.466	49.8	Pk	34.5	-20.9	63.4	-	-	68.2	-4.8	283	102	H
8	5.469	38.46	RMS	34.5	-20.7	52.26	-	-	-	-	283	102	H
3	5.47	44.26	Pk	34.5	-20.9	57.86	-	-	68.2	-10.34	283	102	H
7	5.47	38.67	RMS	34.5	-20.9	52.27	-	-	-	-	283	102	H

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

Pk - Peak detector

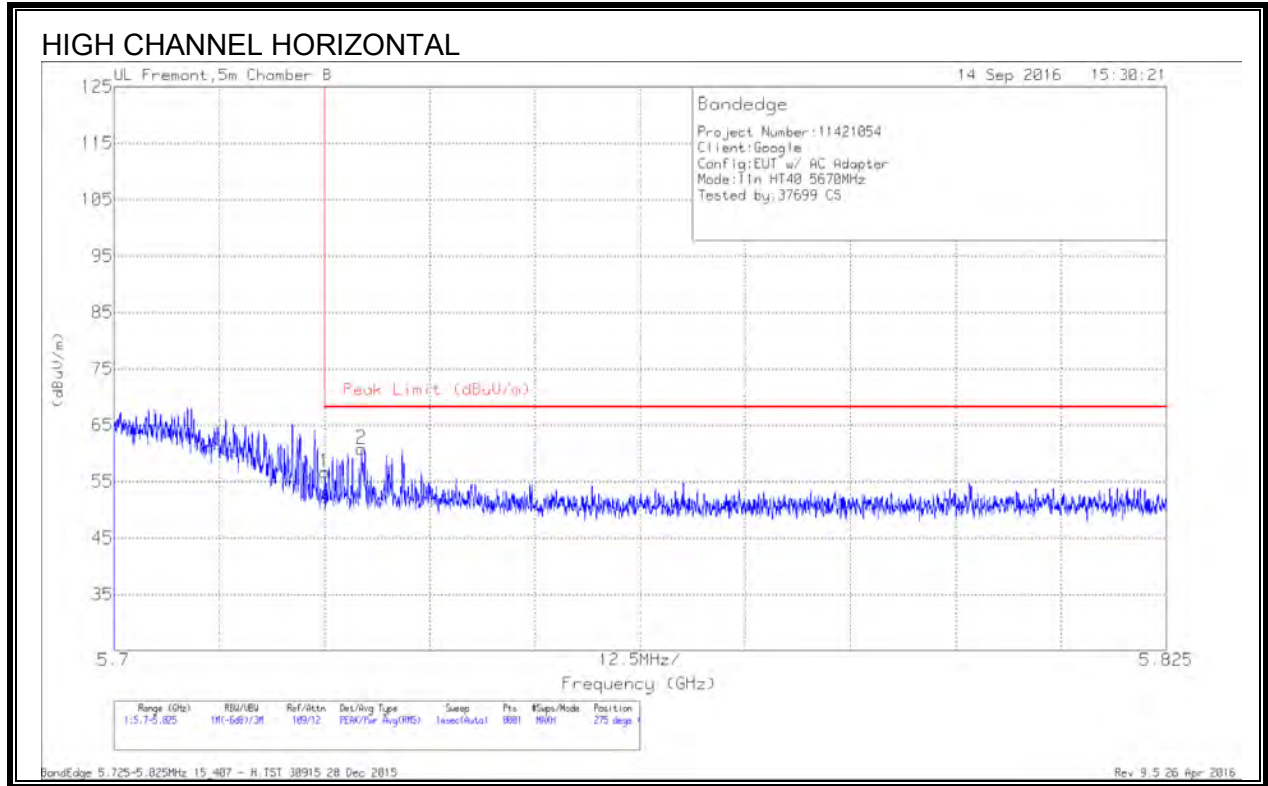
RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* 5.457	31.34	RMS	34.5	-20.7	45.14	54	-8.86	-	-	145	363	V
2	* 5.458	40.06	Pk	34.5	-20.5	54.06	-	-	74	-19.94	145	363	V
1	* 5.46	37.03	Pk	34.5	-21	50.53	-	-	74	-23.47	145	363	V
5	* 5.46	29.77	RMS	34.5	-21	43.27	54	-10.73	-	-	145	363	V
4	5.466	42.25	Pk	34.5	-20.9	55.85	-	-	68.2	-12.35	145	363	V
3	5.47	41.94	Pk	34.5	-20.9	55.54	-	-	68.2	-12.66	145	363	V
7	5.47	32.62	RMS	34.5	-20.9	46.22	-	-	-	-	145	363	V
8	5.47	32.75	RMS	34.5	-20.8	46.45	-	-	-	-	145	363	V

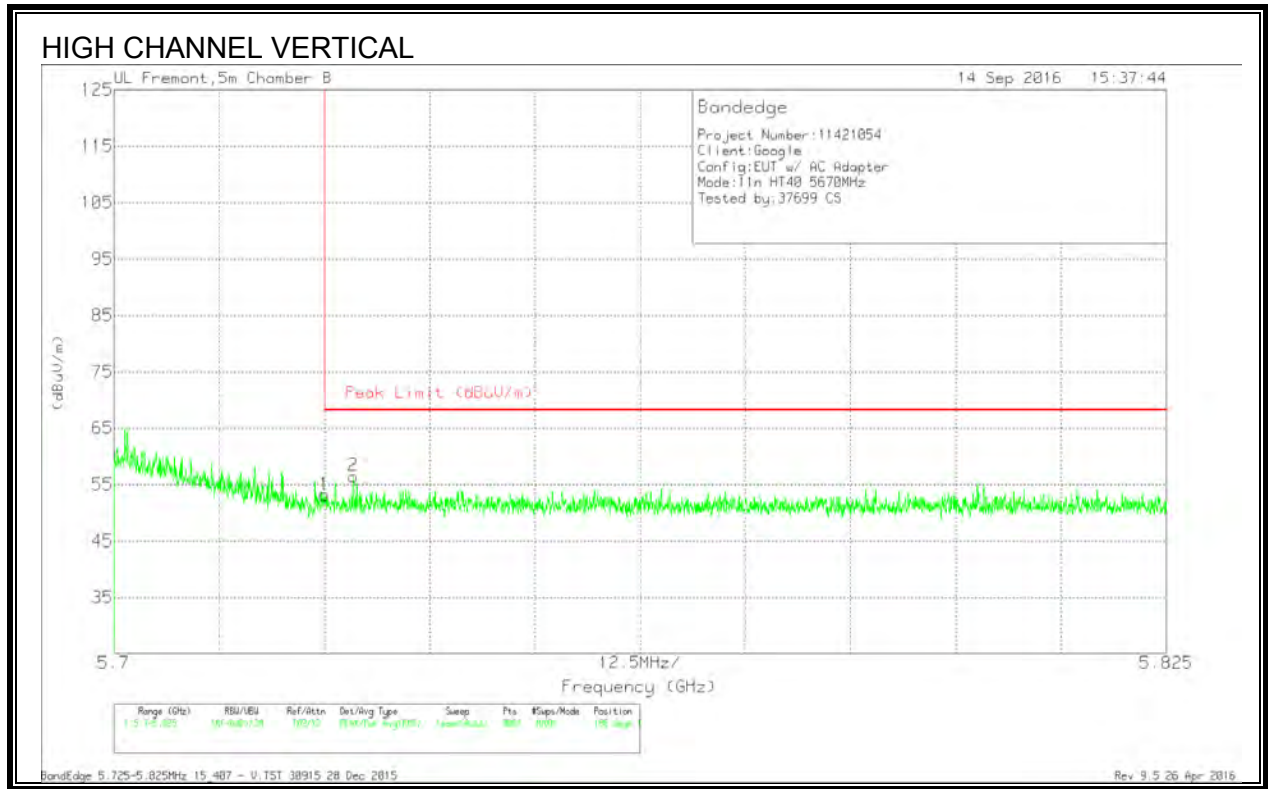
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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	43.55	Pk	34.9	-21.7	56.75	68.2	-11.45	275	400	H
2	5.729	47.85	Pk	34.9	-21.9	60.85	68.2	-7.35	275	400	H

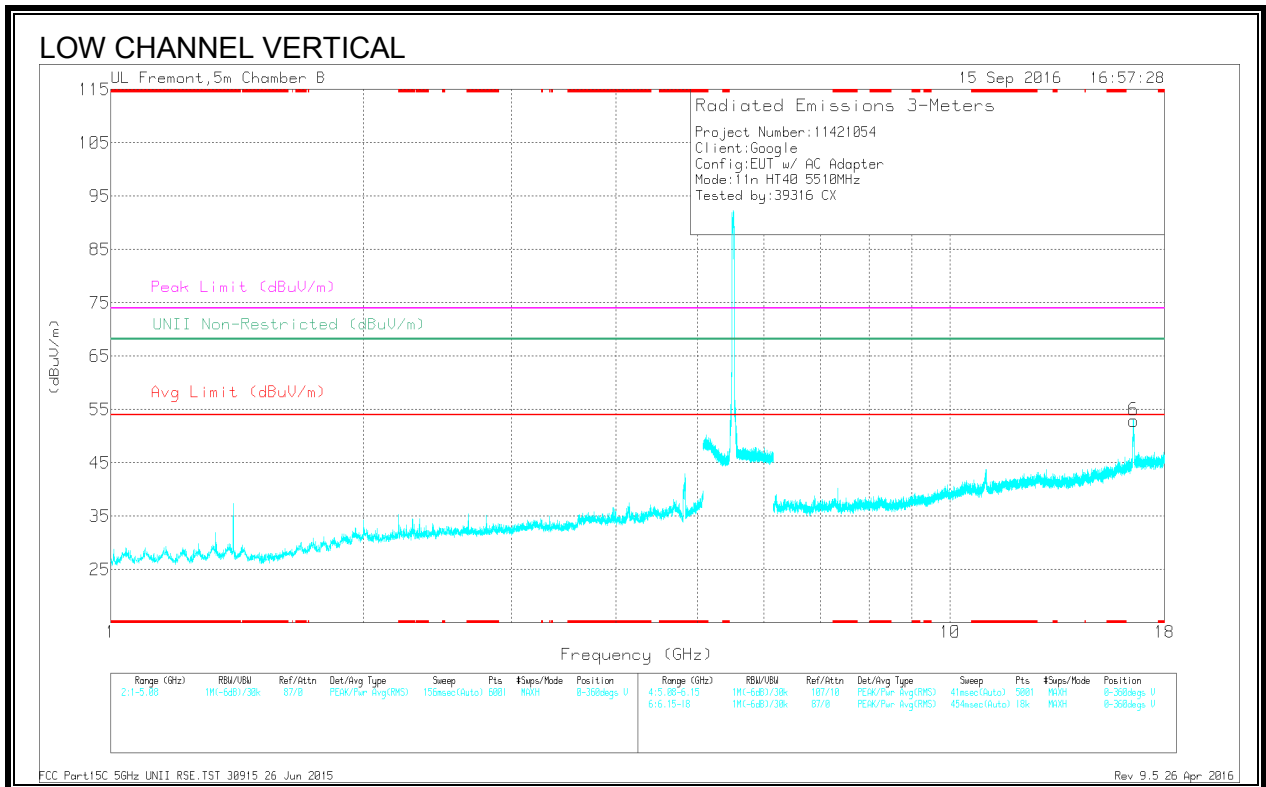
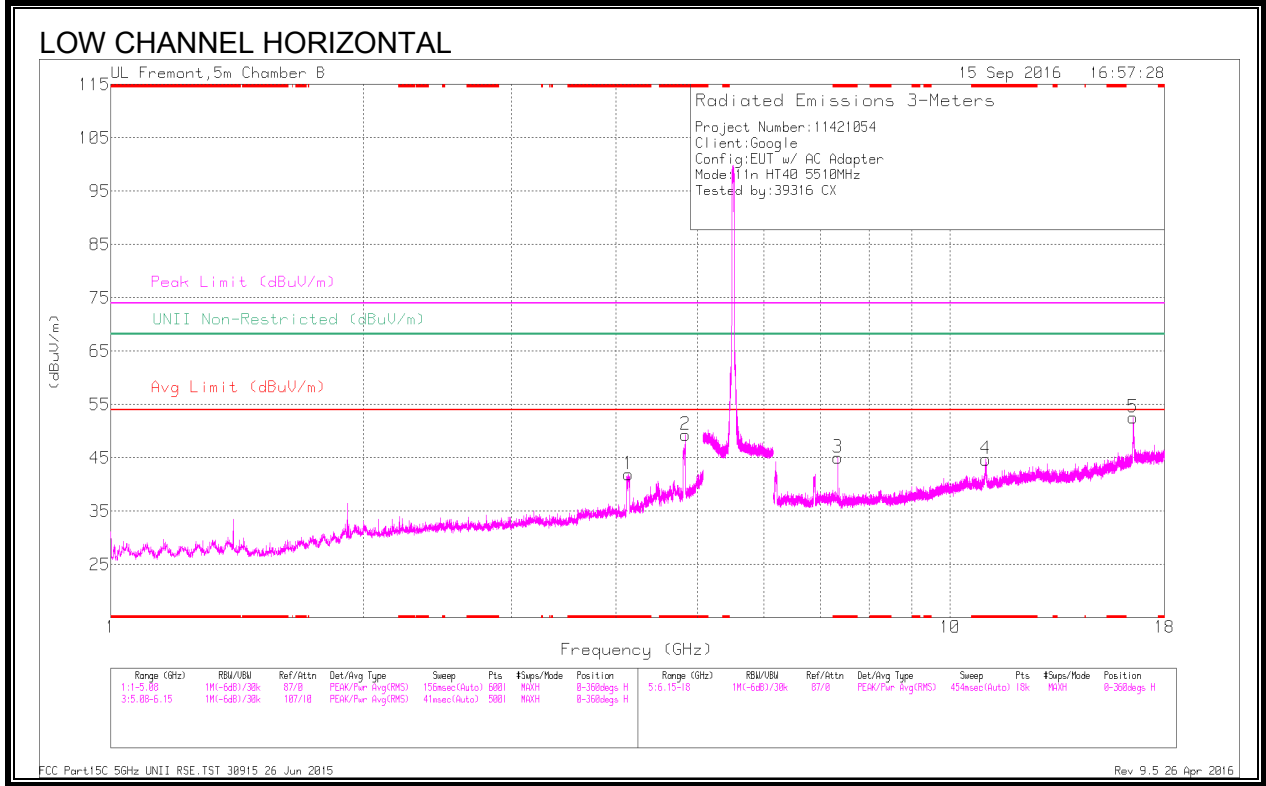
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/CbI/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	39.96	Pk	34.9	-21.7	53.16	68.2	-15.04	188	102	V
2	5.728	43.31	Pk	34.9	-21.7	56.51	68.2	-11.69	188	102	V

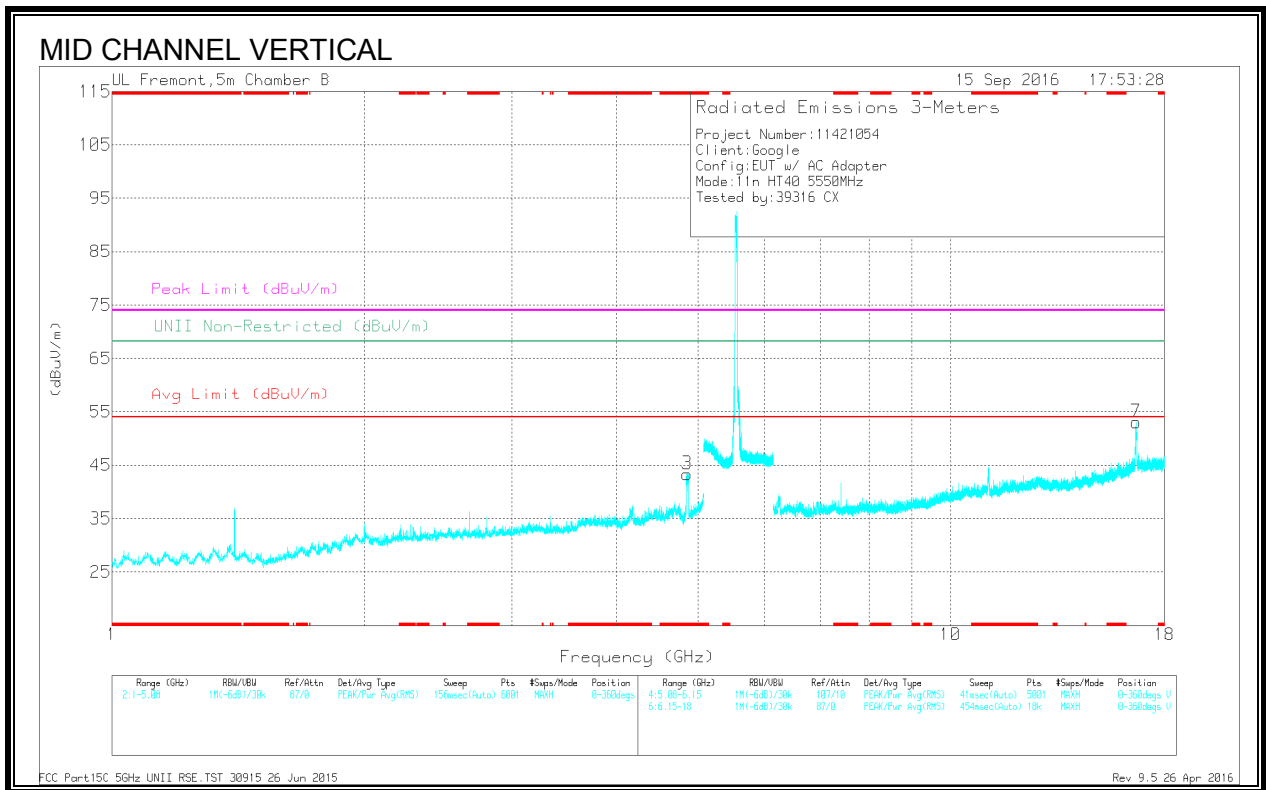
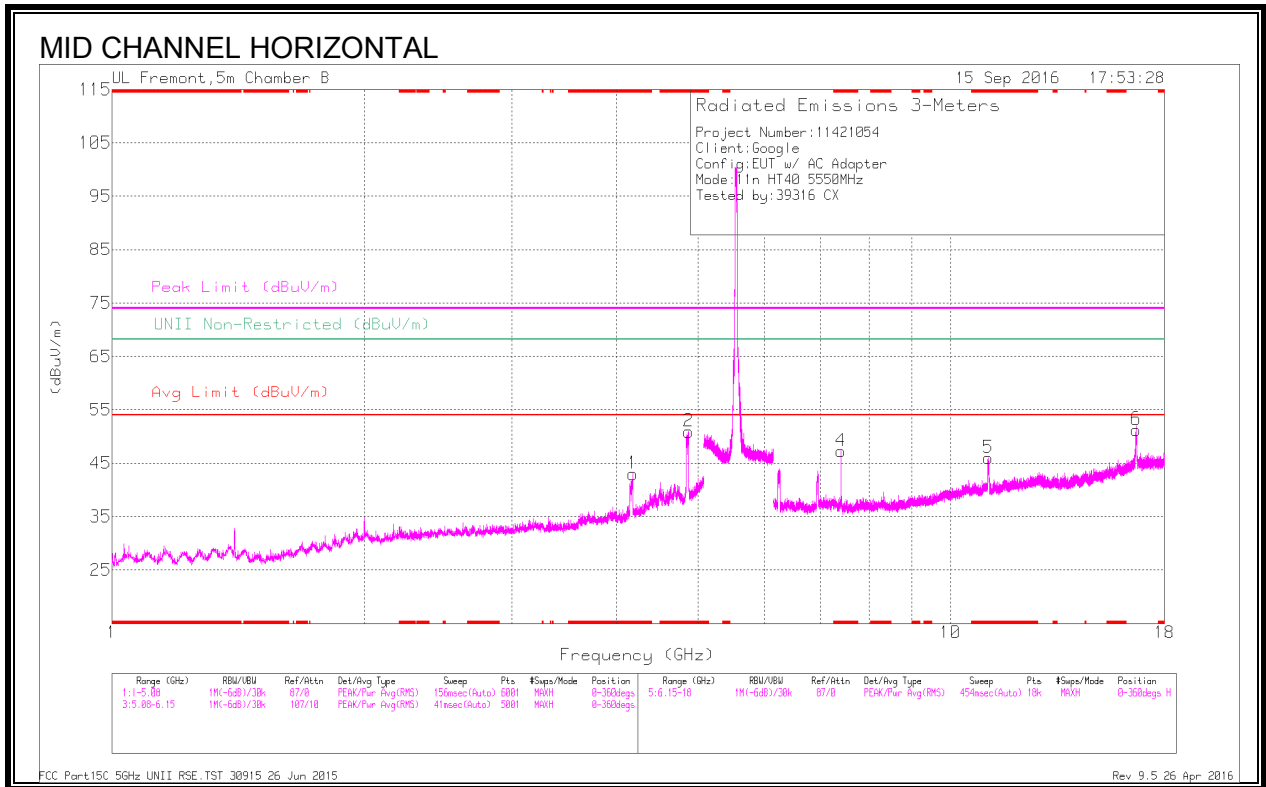
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.127	47.16	PK-U	33.7	-32.5	48.36	-	-	74	-25.64	-	-	268	102	H
	* 4.137	38.45	ADR	33.7	-32.2	39.95	54	-14.05	-	-	-	-	268	102	H
2	* 4.827	54.2	PK-U	33.8	-32.4	55.6	-	-	74	-18.4	-	-	264	286	H
	* 4.838	45.91	ADR	33.8	-32.4	47.31	54	-6.69	-	-	-	-	264	286	H
3	* 7.347	44	PK-U	35.6	-30	49.6	-	-	74	-24.4	-	-	173	101	H
	* 7.347	38.6	ADR	35.6	-30	44.2	54	-9.8	-	-	-	-	173	101	H
4	* 11.042	40.94	PK-U	37.9	-25.5	53.34	-	-	74	-20.66	-	-	84	108	H
	* 11.026	28.81	ADR	37.9	-25.2	41.51	54	-12.49	-	-	-	-	84	108	H
6	16.517	39.8	PK-U	41.6	-23.1	58.3	-	-	-	-	68.2	-9.9	151	112	V
5	16.531	39.17	PK-U	41.6	-23.2	57.57	-	-	-	-	68.2	-10.63	245	103	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

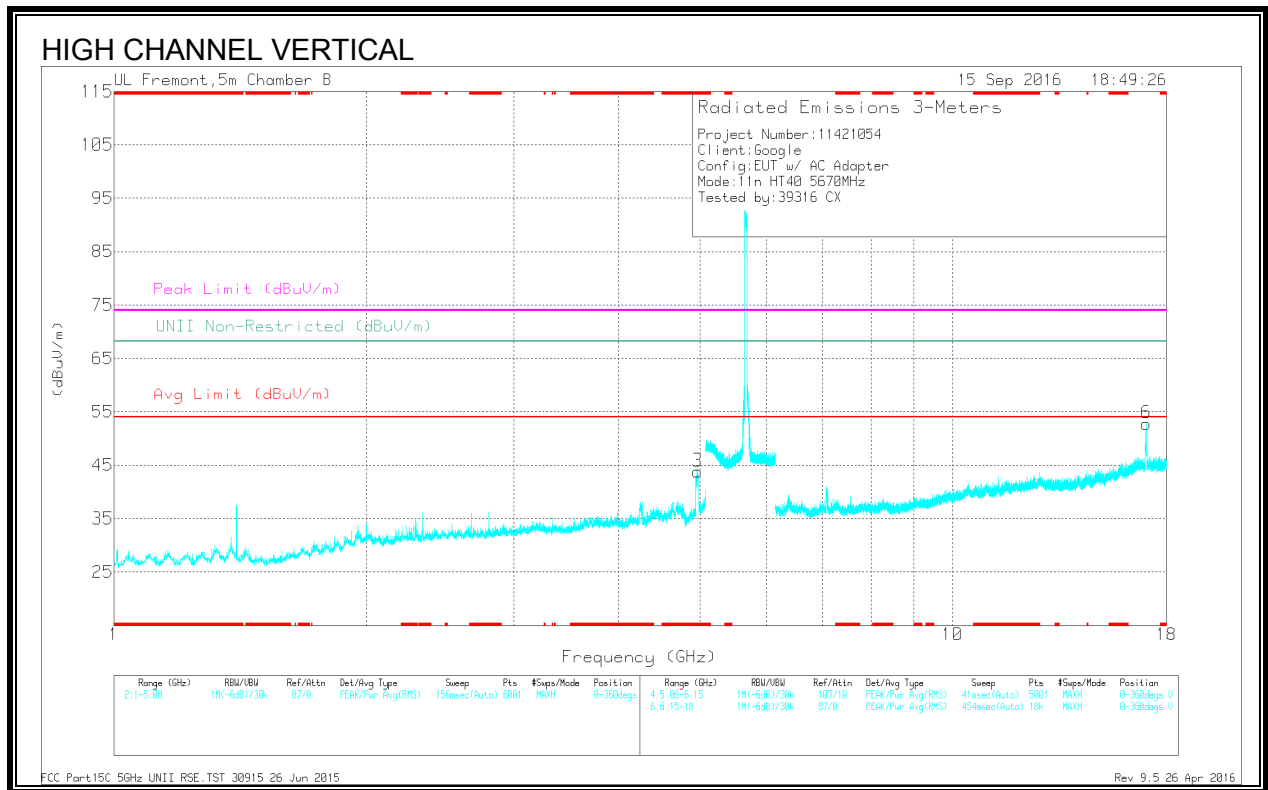
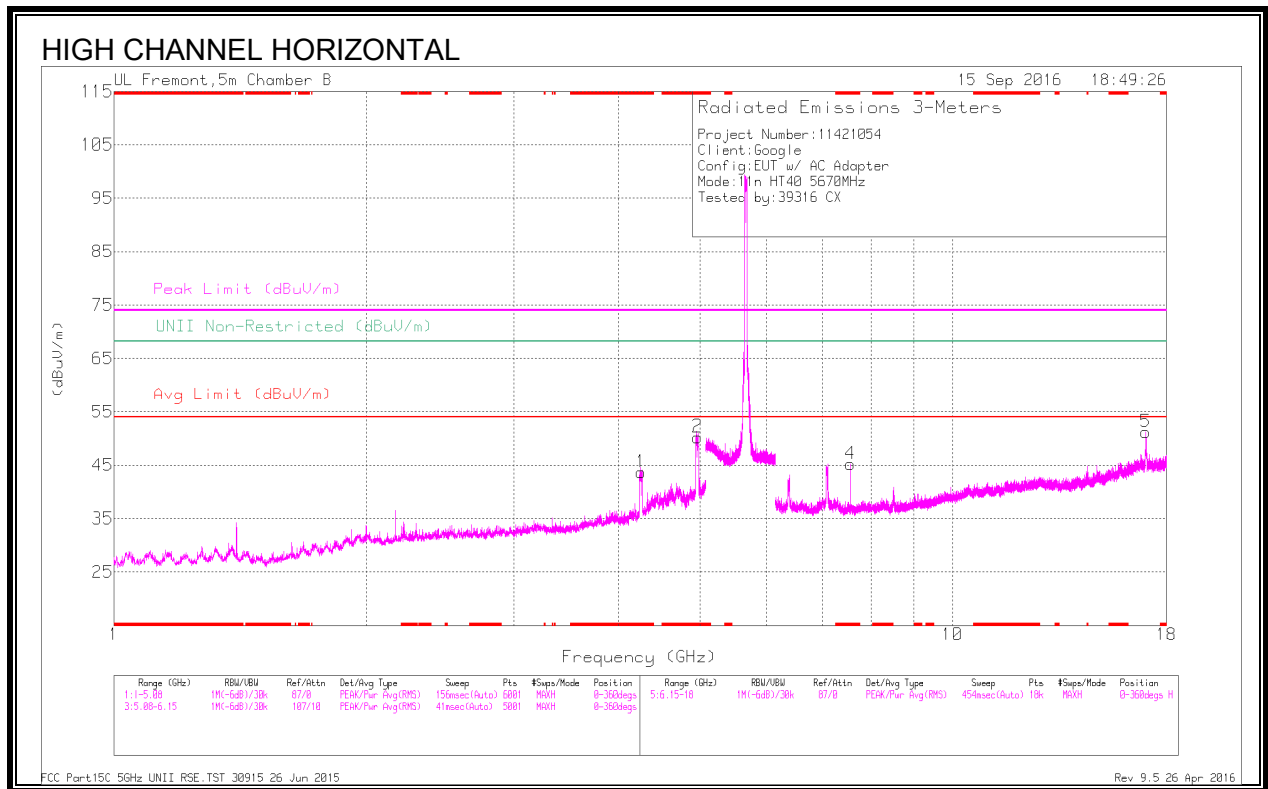


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	Amp/ICbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.177	48.02	PK-U	33.7	-31.9	49.82	-	-	74	-24.18	-	-	268	118	H
	* 4.177	39.55	ADR	33.7	-31.9	41.35	54	-12.65	-	-	-	-	268	118	H
2	* 4.872	56.08	PK-U	33.8	-31.7	58.18	-	-	74	-15.82	-	-	265	301	H
	* 4.871	48.26	ADR	33.8	-31.7	50.36	54	-3.64	-	-	-	-	265	301	H
3	* 4.872	50.8	PK-U	33.8	-31.7	52.9	-	-	74	-21.1	-	-	191	281	V
	* 4.871	43.12	ADR	33.8	-31.7	45.22	54	-8.78	-	-	-	-	191	281	V
4	* 7.4	47.6	PK-U	35.6	-30.6	52.6	-	-	74	-21.4	-	-	197	107	H
	* 7.4	42.72	ADR	35.6	-30.6	47.72	54	-6.28	-	-	-	-	197	107	H
5	* 11.101	41.78	PK-U	37.9	-26.1	53.56	-	-	74	-20.44	-	-	84	107	H
	* 11.096	30.5	ADR	37.9	-26.1	42.3	54	-11.7	-	-	-	-	84	107	H
7	16.654	41.18	PK-U	41.8	-23.2	59.78	-	-	-	-	68.2	-8.42	153	102	V
6	16.661	40.46	PK-U	41.8	-23.2	59.06	-	-	-	-	68.2	-9.14	245	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



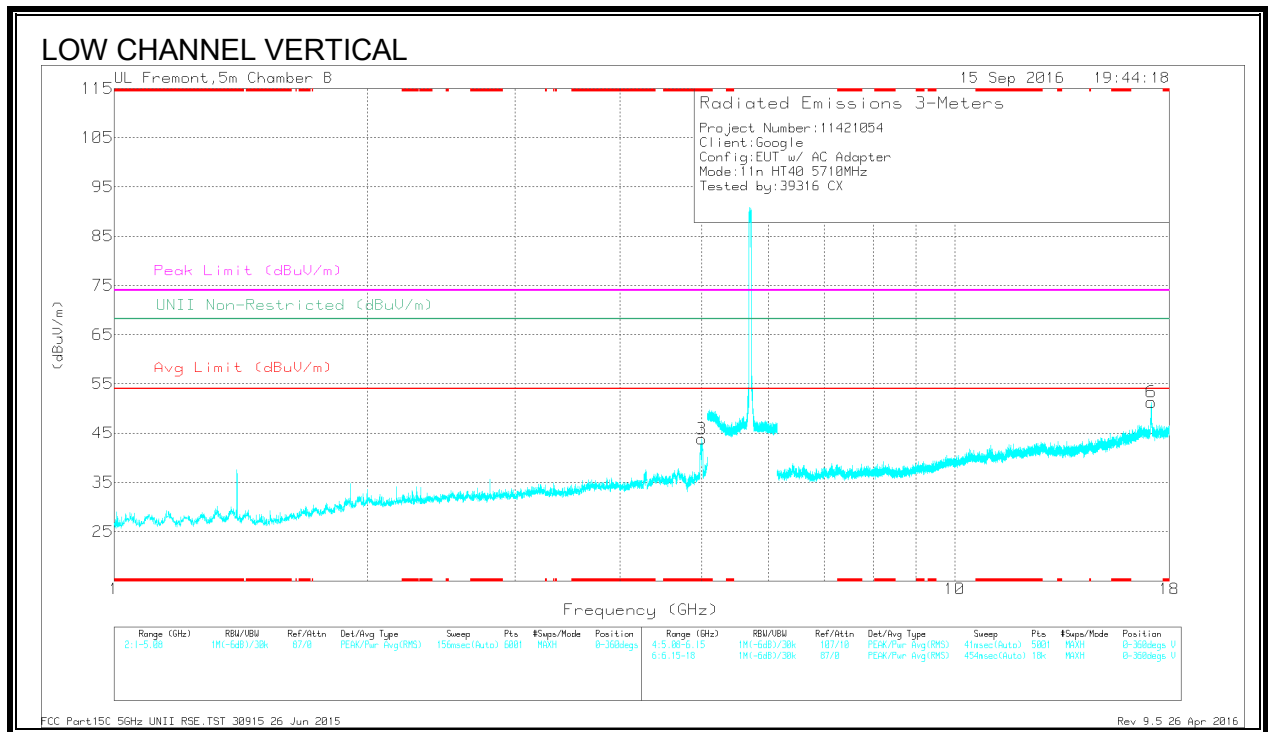
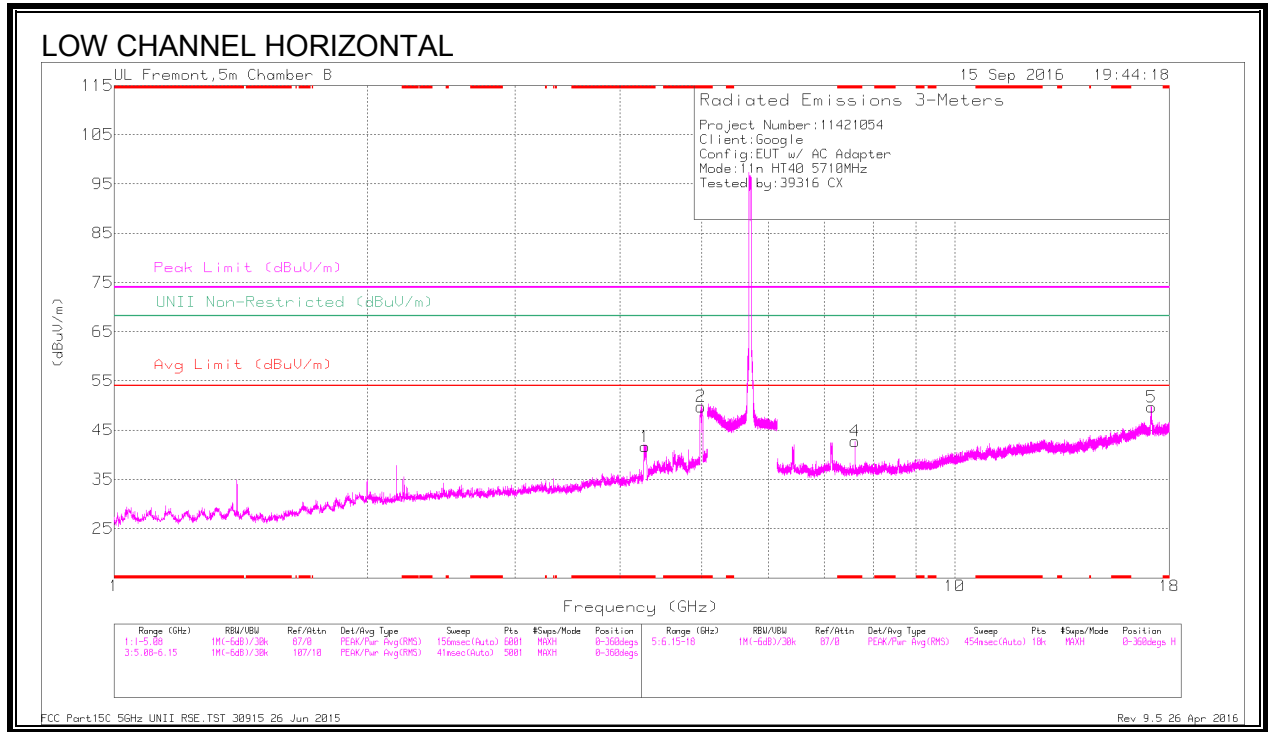
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.261	51.65	PK-U	33.7	-32.9	52.45	-	-	74	-21.55	-	-	266	303	H
	* 4.268	43.37	ADR	33.7	-33	44.07	54	-9.93	-	-	-	-	266	303	H
2	* 4.945	55.47	PK-U	33.9	-31.7	57.67	-	-	74	-16.33	-	-	256	297	H
	* 4.946	47.86	ADR	33.9	-31.7	50.06	54	-3.94	-	-	-	-	256	297	H
3	* 4.976	48.1	PK-U	34	-30.8	51.3	-	-	74	-22.7	-	-	158	102	V
	* 4.967	39.69	ADR	34	-31.1	42.59	54	-11.41	-	-	-	-	158	102	V
4	* 7.56	43.94	PK-U	35.7	-29.2	50.44	-	-	74	-23.56	-	-	194	115	H
	* 7.56	38.45	ADR	35.7	-29.2	44.95	54	-9.05	-	-	-	-	194	115	H
6	17.018	39.09	PK-U	41.7	-23.2	57.59	-	-	-	-	68.2	-10.61	179	111	V
5	17.029	39.64	PK-U	41.7	-23.3	58.04	-	-	-	-	68.2	-10.16	156	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

9.1.14. 11n HT40 STRADDLE CHANNEL 142 HAR. AND SPUR. EMISSIONS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.288	49.34	PK-U	33.7	-33	50.04	-	-	74	-23.96	-	-	267	108	H
	* 4.298	40.9	ADR	33.7	-33	41.6	54	-12.4	-	-	-	-	267	108	H
2	* 4.981	53.69	PK-U	34	-30.6	57.09	-	-	74	-16.91	-	-	257	290	H
	* 4.98	46.26	ADR	34	-30.6	49.66	54	-4.34	-	-	-	-	257	290	H
3	* 4.991	46.87	PK-U	34	-30.3	50.57	-	-	74	-23.43	-	-	29	226	V
	* 4.991	38	ADR	34	-30.3	41.7	54	-12.3	-	-	-	-	29	226	V
4	* 7.613	42.72	PK-U	35.7	-30	48.42	-	-	74	-25.58	-	-	195	104	H
	* 7.613	36.7	ADR	35.7	-30	42.4	54	-11.6	-	-	-	-	195	104	H
5	17.116	38.06	PK-U	41.5	-23.5	56.06	-	-	-	-	68.2	-12.14	151	101	H
6	17.147	37.98	PK-U	41.4	-23	56.38	-	-	-	-	68.2	-11.82	184	102	V

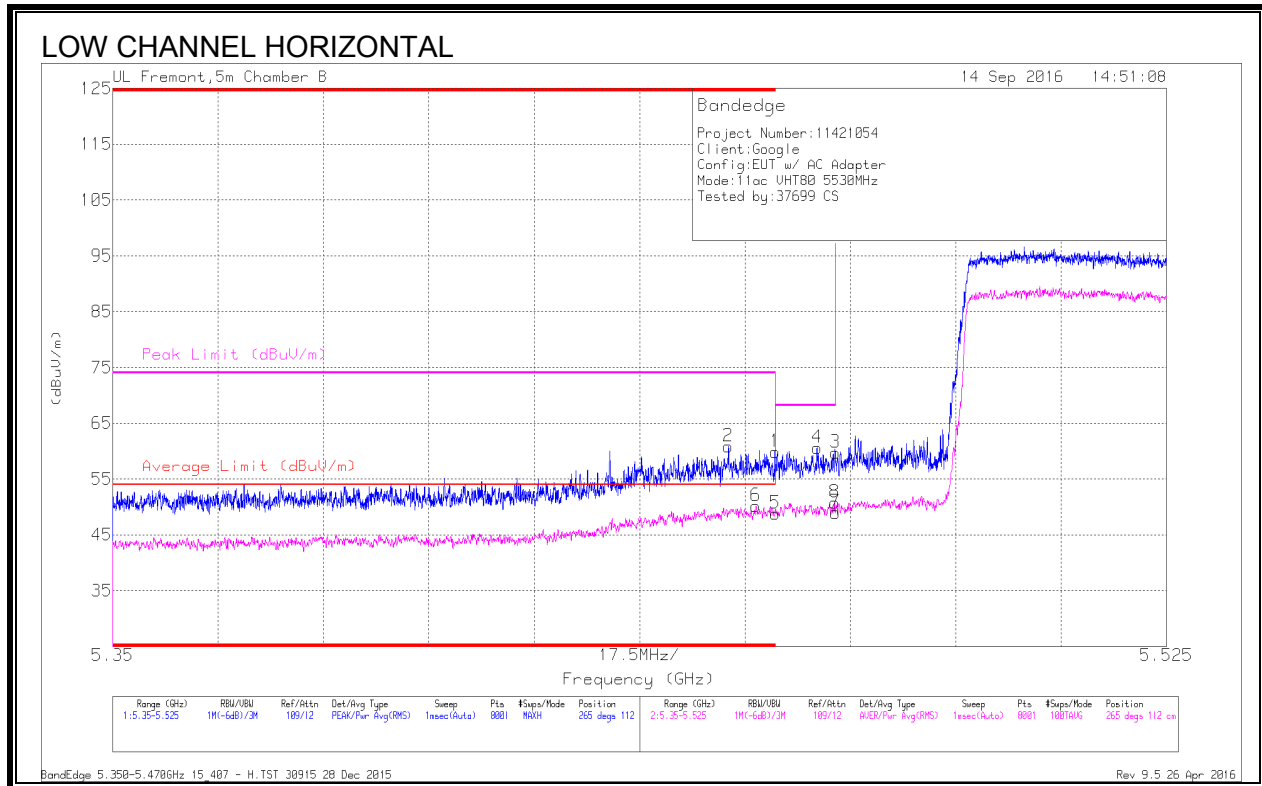
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

9.1.15. 11ac VHT80 MODE IN THE 5.6GHz BAND

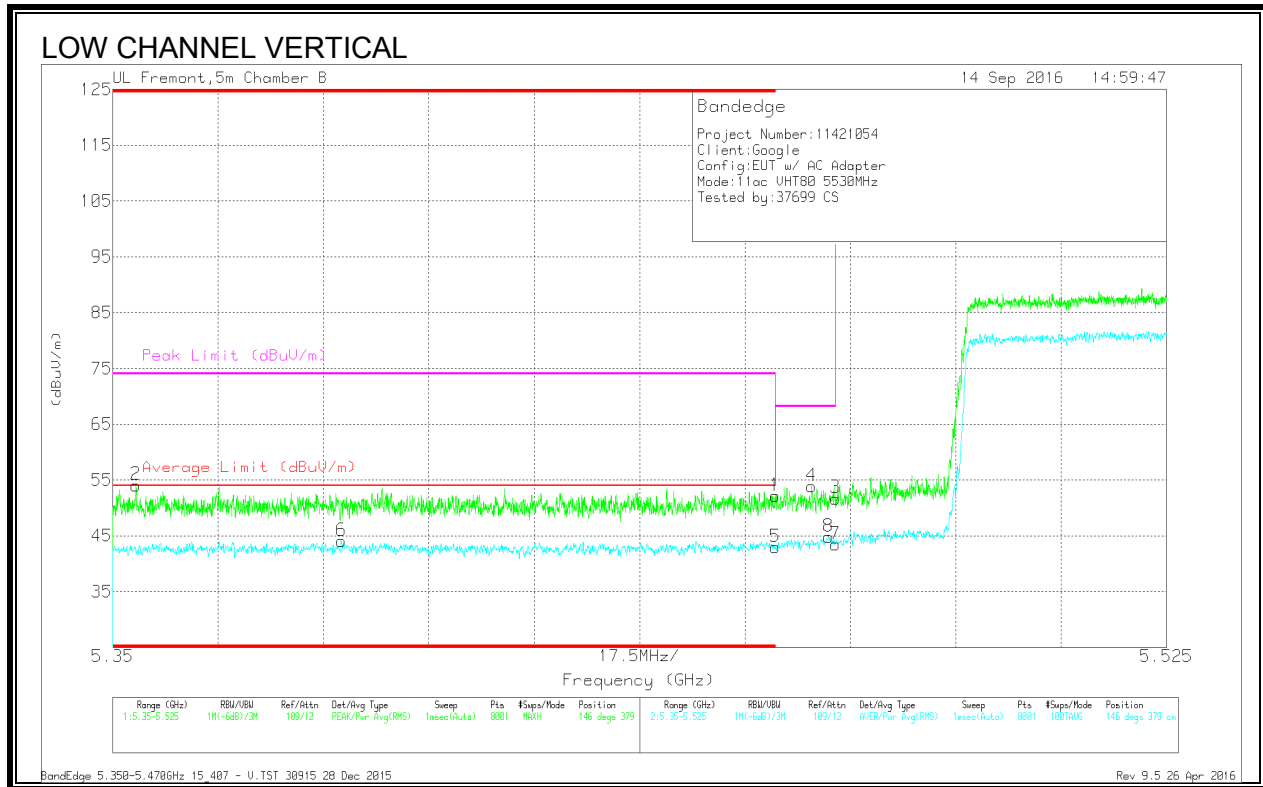
RESTRICTED BANDEDGE (LOW CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.452	46.95	Pk	34.5	-20.6	60.85	-	-	74	-13.15	265	112	H
6	* 5.457	36.52	RMS	34.5	-20.8	50.22	54	-3.78	-	-	265	112	H
1	* 5.46	46.38	Pk	34.5	-21	59.88	-	-	74	-14.12	265	112	H
5	* 5.46	35.31	RMS	34.5	-21	48.81	54	-5.19	-	-	265	112	H
4	5.467	46.96	Pk	34.5	-20.9	60.56	-	-	68.2	-7.64	265	112	H
3	5.47	46.17	Pk	34.5	-20.9	59.77	-	-	68.2	-8.43	265	112	H
7	5.47	35.39	RMS	34.5	-20.9	48.99	-	-	-	-	265	112	H
8	5.47	37.12	RMS	34.5	-20.8	50.82	-	-	-	-	265	112	H

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

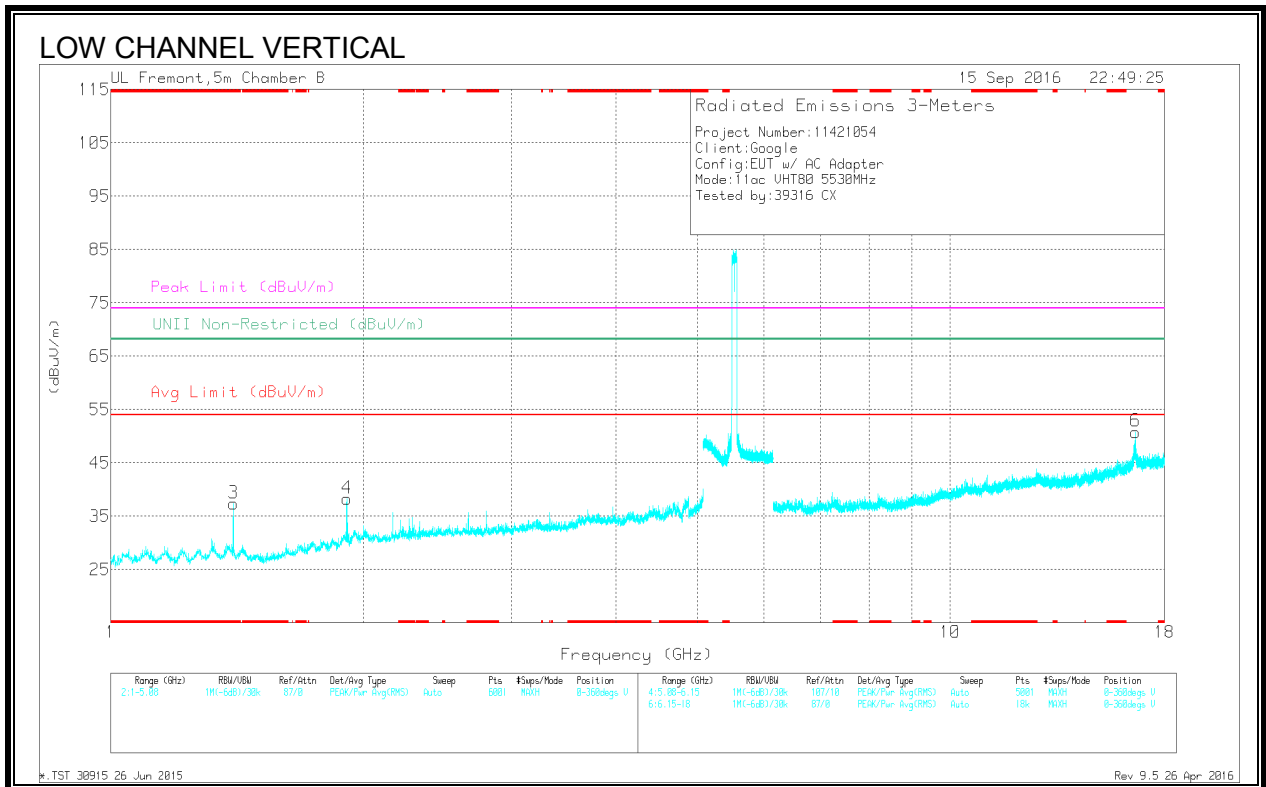
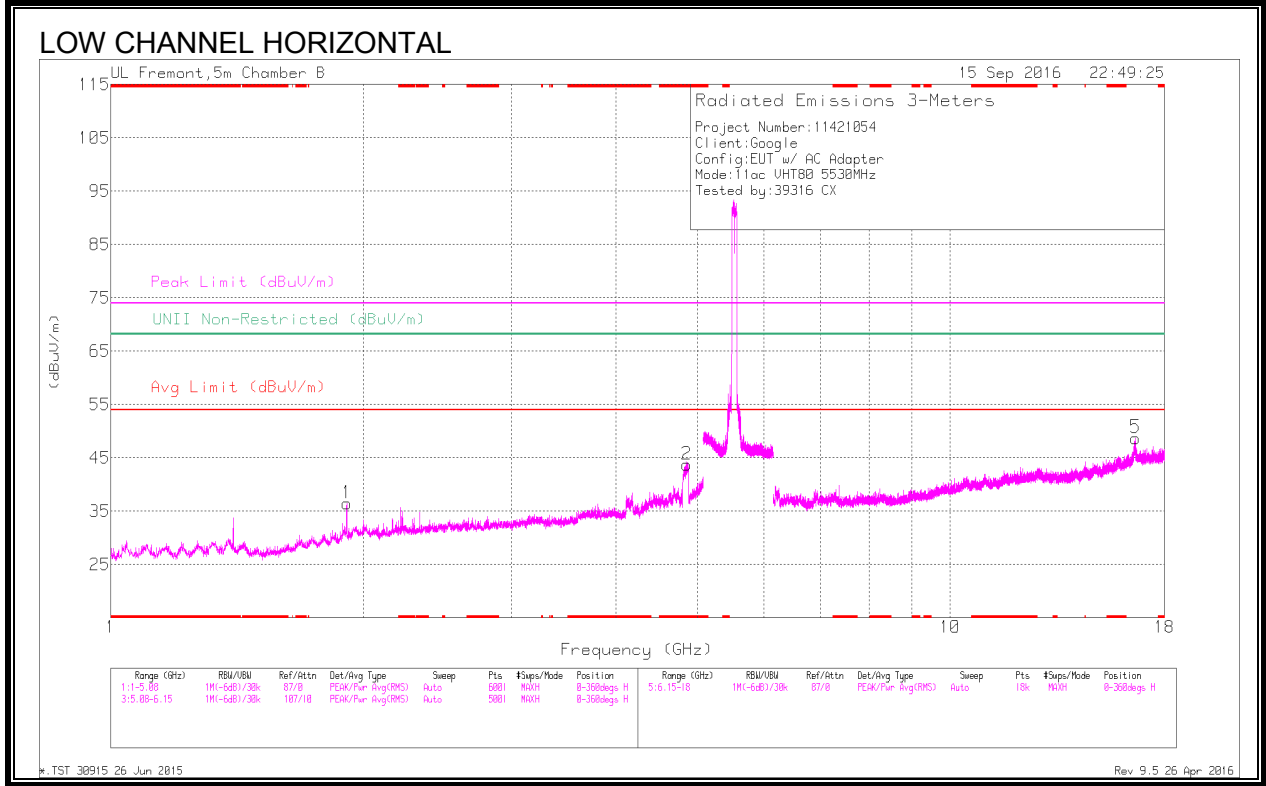
Pk - Peak detector
 RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/P ad (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	38.64	Pk	34.5	-21	52.14	-	-	74	-21.86	146	379	V
2	* 5.354	39.78	Pk	34.5	-20.2	54.08	-	-	74	-19.92	146	379	V
5	* 5.46	29.45	RMS	34.5	-21	42.95	54	-11.05	-	-	146	379	V
6	* 5.388	29.88	RMS	34.5	-20.3	44.08	54	-9.92	-	-	146	379	V
4	5.466	40.34	Pk	34.5	-20.9	53.94	-	-	68.2	-14.26	146	379	V
8	5.469	31.08	RMS	34.5	-20.7	44.88	-	-	-	-	146	379	V
3	5.47	38.12	Pk	34.5	-20.9	51.72	-	-	68.2	-16.48	146	379	V
7	5.47	29.82	RMS	34.5	-20.9	43.42	-	-	-	-	146	379	V

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

HARMONICS AND SPURIOUS EMISSIONS

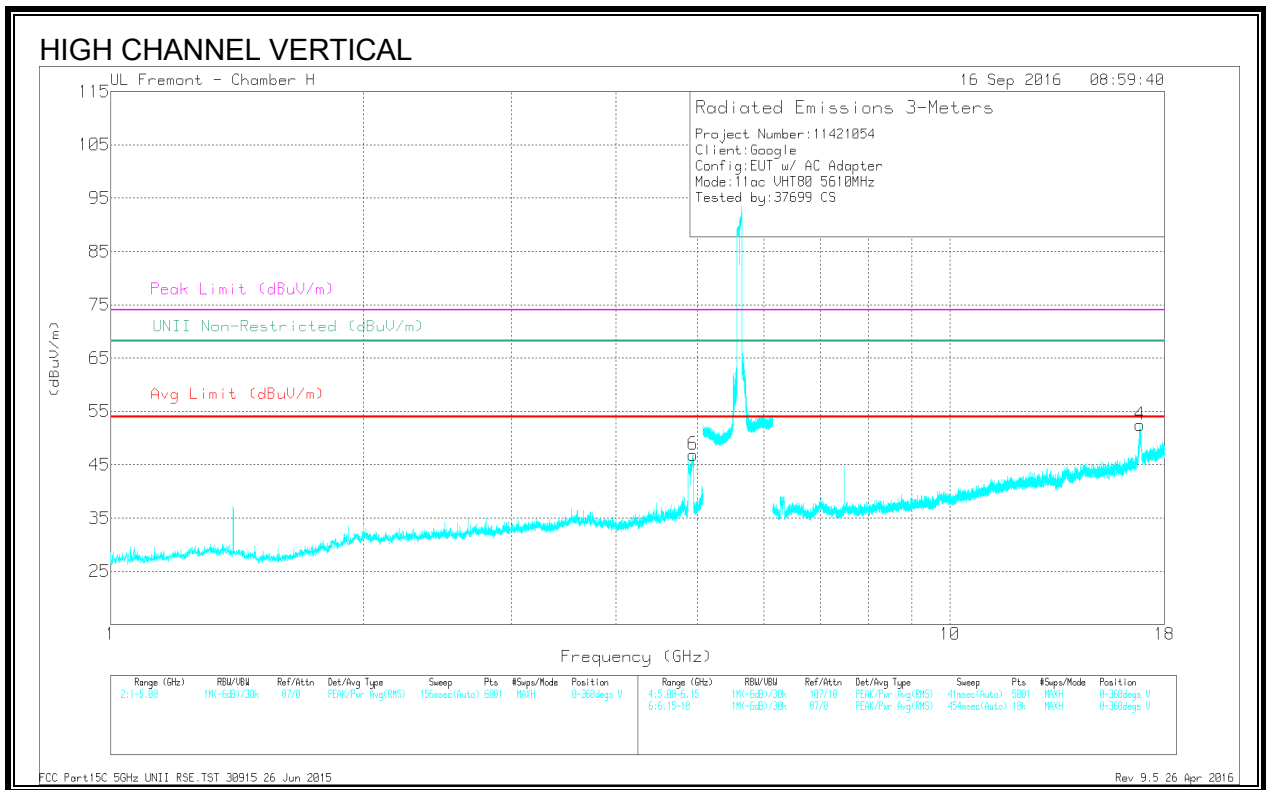
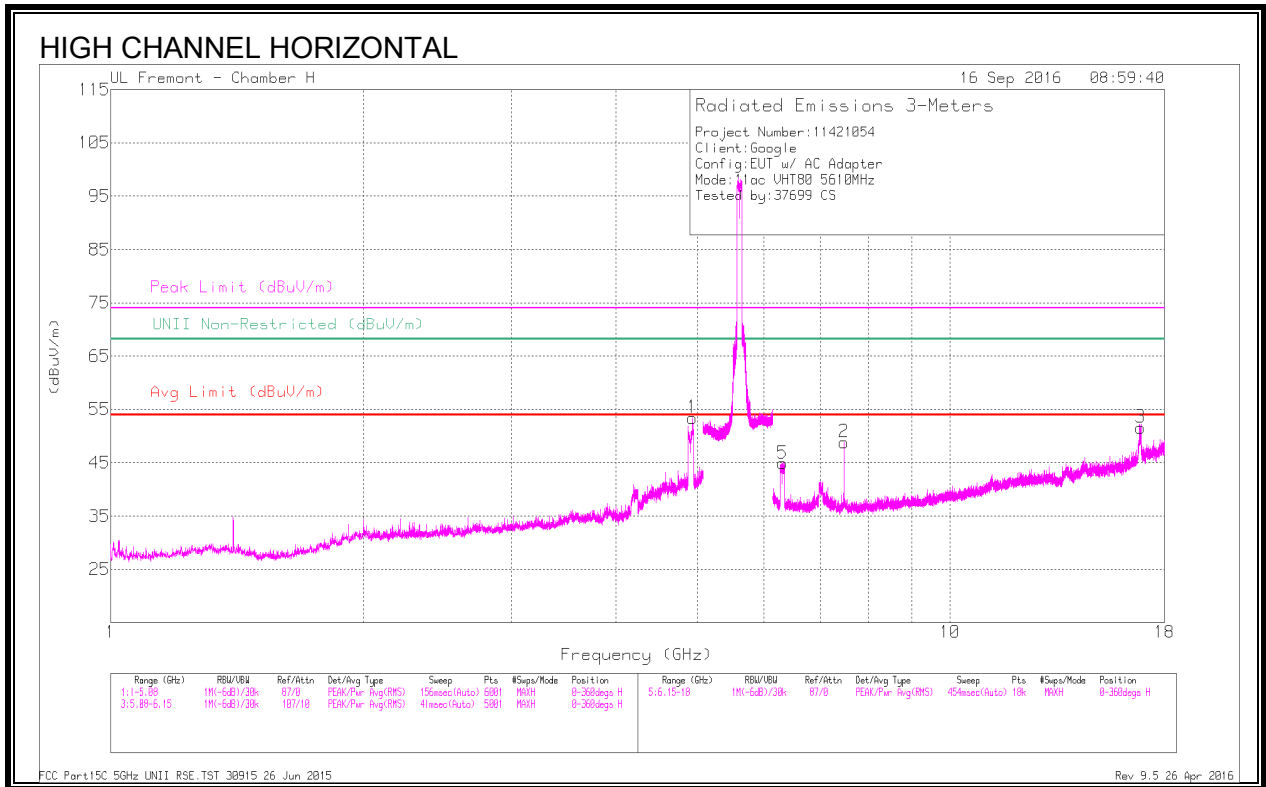


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	Amp/Clbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4.864	49.75	PK-U	33.8	-31.8	51.75	-	-	74	-22.25	-	-	257	302	H
	* 4.865	40.4	ADR	33.8	-31.8	42.4	54	-11.6	-	-	-	-	257	302	H
3	* 1.4	47.65	PK-U	28.9	-35	41.55	-	-	74	-32.45	-	-	142	101	V
	* 1.4	43.12	ADR	28.9	-35	37.02	54	-16.98	-	-	-	-	142	101	V
1	1.91	50.31	PK-U	30.9	-34.1	47.11	-	-	-	-	68.2	-21.09	131	138	H
4	1.912	43.33	PK-U	30.9	-34.1	40.13	-	-	-	-	68.2	-28.07	261	105	V
5	16.62	35.47	PK-U	41.8	-23.5	53.77	-	-	-	-	68.2	-14.43	239	214	H
6	16.621	37.66	PK-U	41.8	-23.5	55.96	-	-	-	-	68.2	-12.24	152	101	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



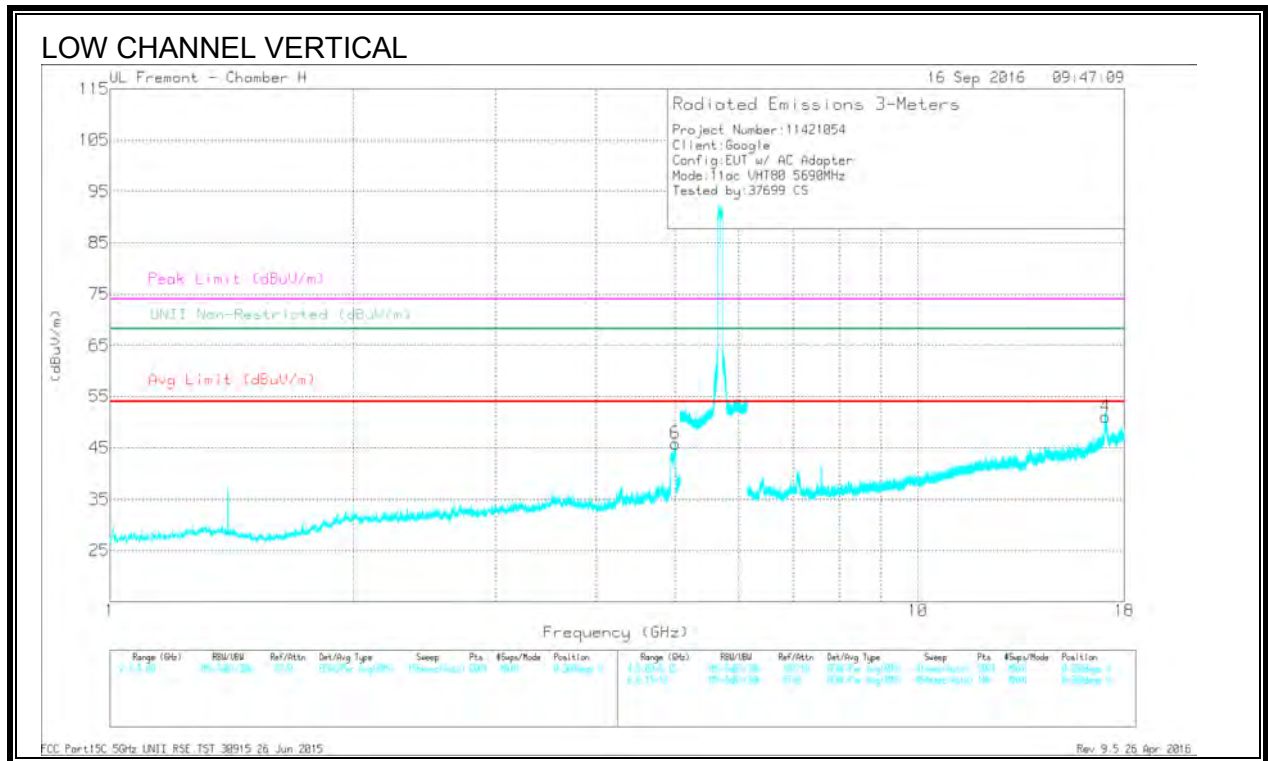
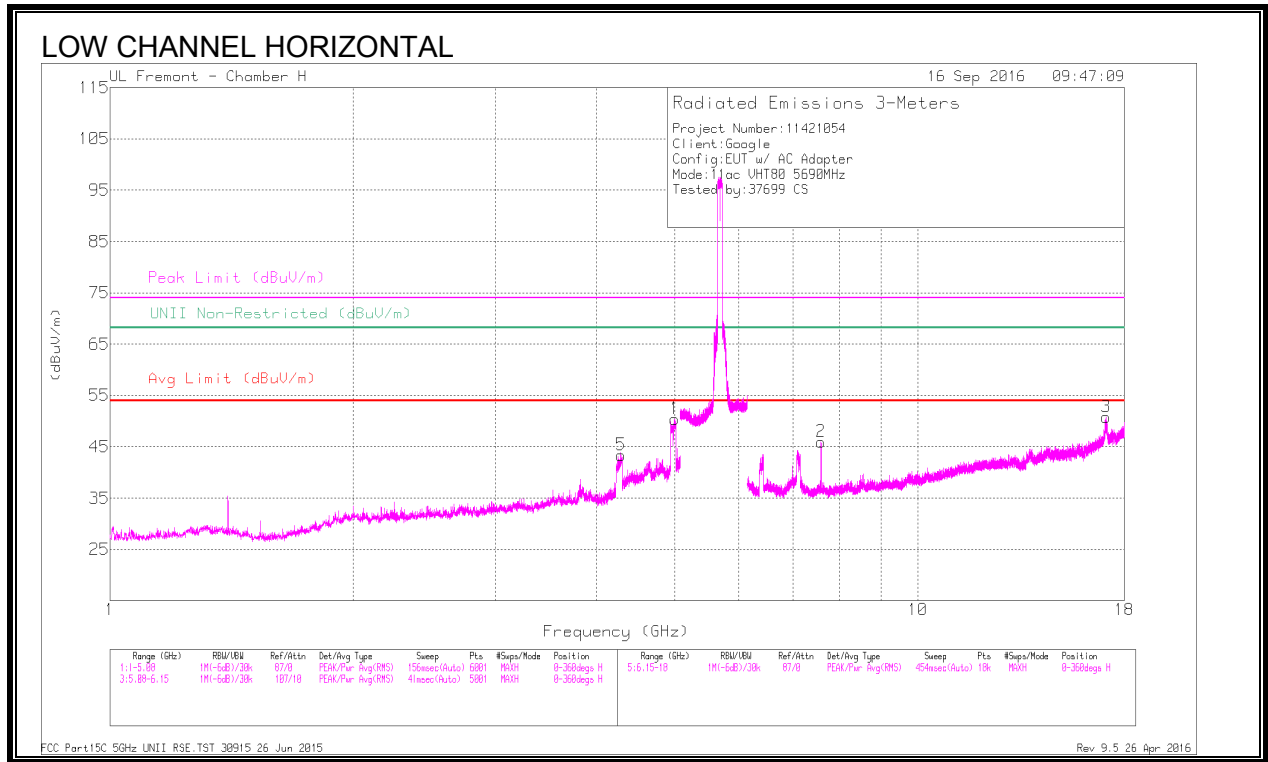
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.878	58.31	PK-U	34	-34.2	58.11	-	-	74	-15.89	-	-	109	130	H
	* 4.877	49.87	ADR	34	-34.2	49.67	54	-4.33	-	-	-	-	109	130	H
6	* 4.888	52.33	PK-U	34	-34	52.33	-	-	74	-21.67	-	-	13	108	V
	* 4.932	43.11	ADR	34	-33.4	43.71	54	-10.29	-	-	-	-	13	108	V
2	* 7.48	48.58	PK-U	35.7	-31.5	52.78	-	-	74	-21.22	-	-	9	102	H
	* 7.48	45.21	ADR	35.7	-31.5	49.41	54	-4.59	-	-	-	-	9	102	H
5	6.338	46.08	PK-U	35.5	-32.2	49.38	-	-	-	-	68.2	-18.82	37	132	H
3	16.819	40.08	PK-U	41.4	-23.3	58.18	-	-	-	-	68.2	-10.02	85	115	H
4	16.85	39.61	PK-U	41.4	-23.6	57.41	-	-	-	-	68.2	-10.79	89	113	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

9.1.16. 11ac VHT80 STRADDLE CHANNEL 138 HAR. AND SPUR. EMISSIONS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Amp/CbllFiltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.955	54.01	PK-U	34	-33.4	54.61	-	-	74	-19.39	-	-	90	117	H
	* 5.006	45.96	ADR	34.1	-33.3	46.76	54	-7.24	-	-	-	-	90	117	H
5	* 4.288	49.31	PK-U	33.4	-35.1	47.61	-	-	74	-26.39	-	-	94	133	H
	* 4.301	41.11	ADR	33.4	-35.2	39.31	54	-14.69	-	-	-	-	94	133	H
6	* 5.01	50.29	PK-U	34.1	-33.3	51.09	-	-	74	-22.91	-	-	19	101	V
	* 5.012	41.81	ADR	34.1	-33.3	42.61	54	-11.39	-	-	-	-	19	101	V
2	* 7.587	44.41	PK-U	35.7	-31.1	49.01	-	-	74	-24.99	-	-	8	101	H
	* 7.587	40.01	ADR	35.7	-31.1	44.61	54	-9.39	-	-	-	-	8	101	H
3	17.056	39.56	PK-U	41.1	-23.2	57.46	-	-	-	-	68.2	-10.74	22	111	H
4	17.059	38.13	PK-U	41.1	-23.1	56.13	-	-	-	-	68.2	-12.07	161	102	V

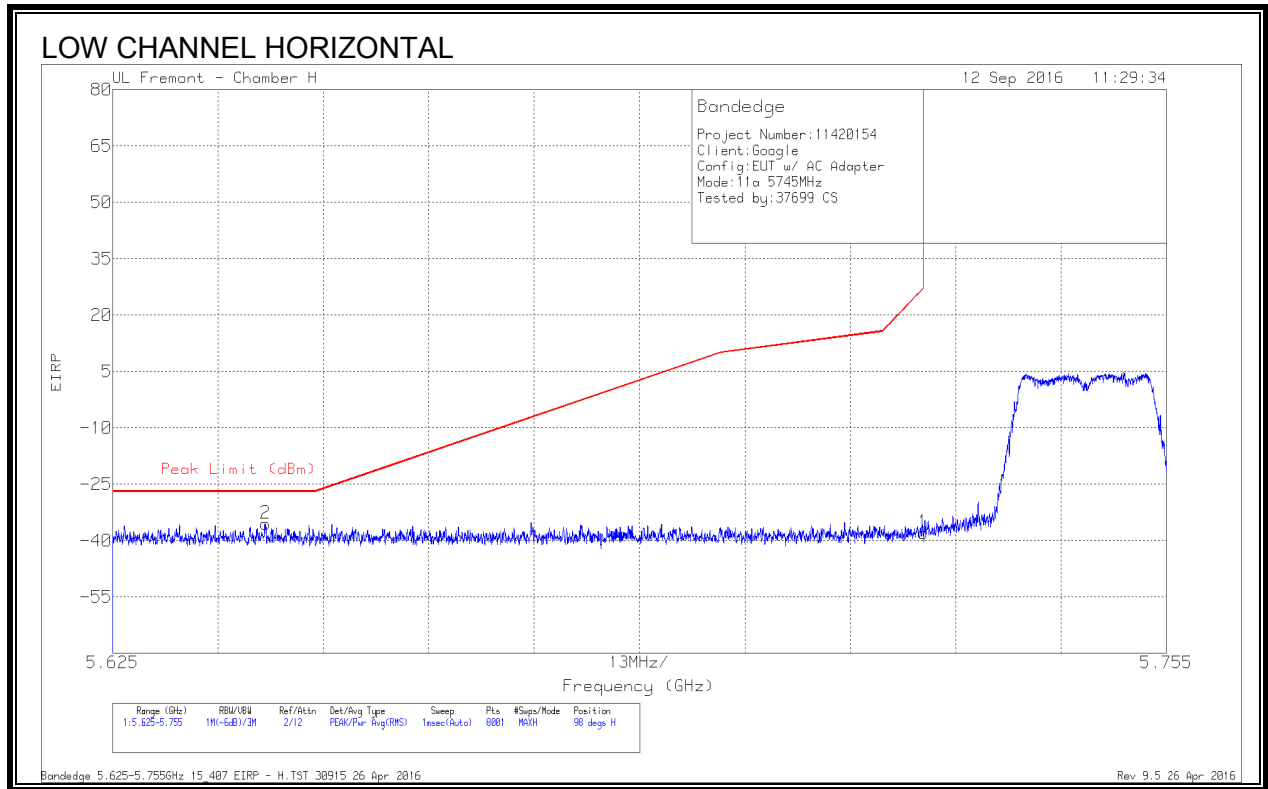
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

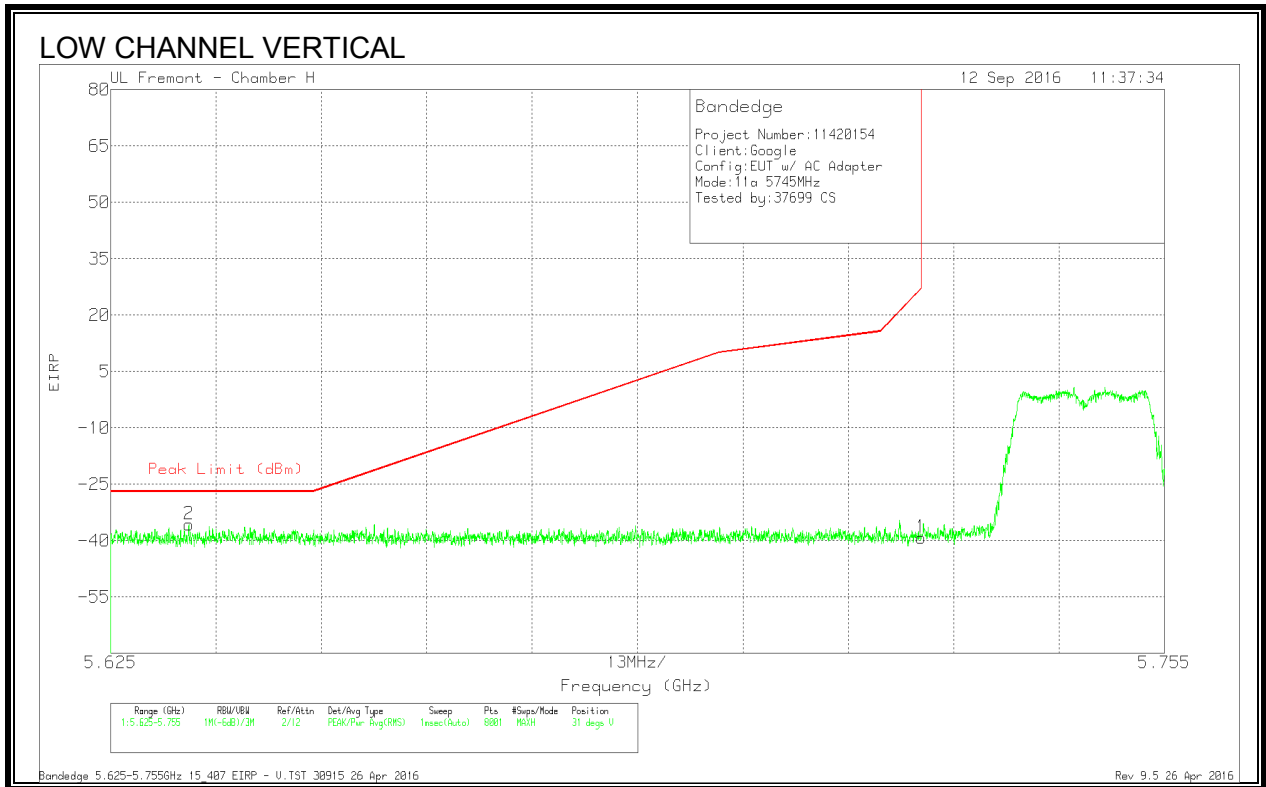
9.1.17. 11a MODE IN THE 5.8GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.644	-66.71	Pk	34.7	-15.3	11.8	-35.51	-27	-8.51	98	176	H
1	5.725	-69.46	Pk	34.9	-15.1	11.8	-37.86	26.97	-64.83	98	176	H

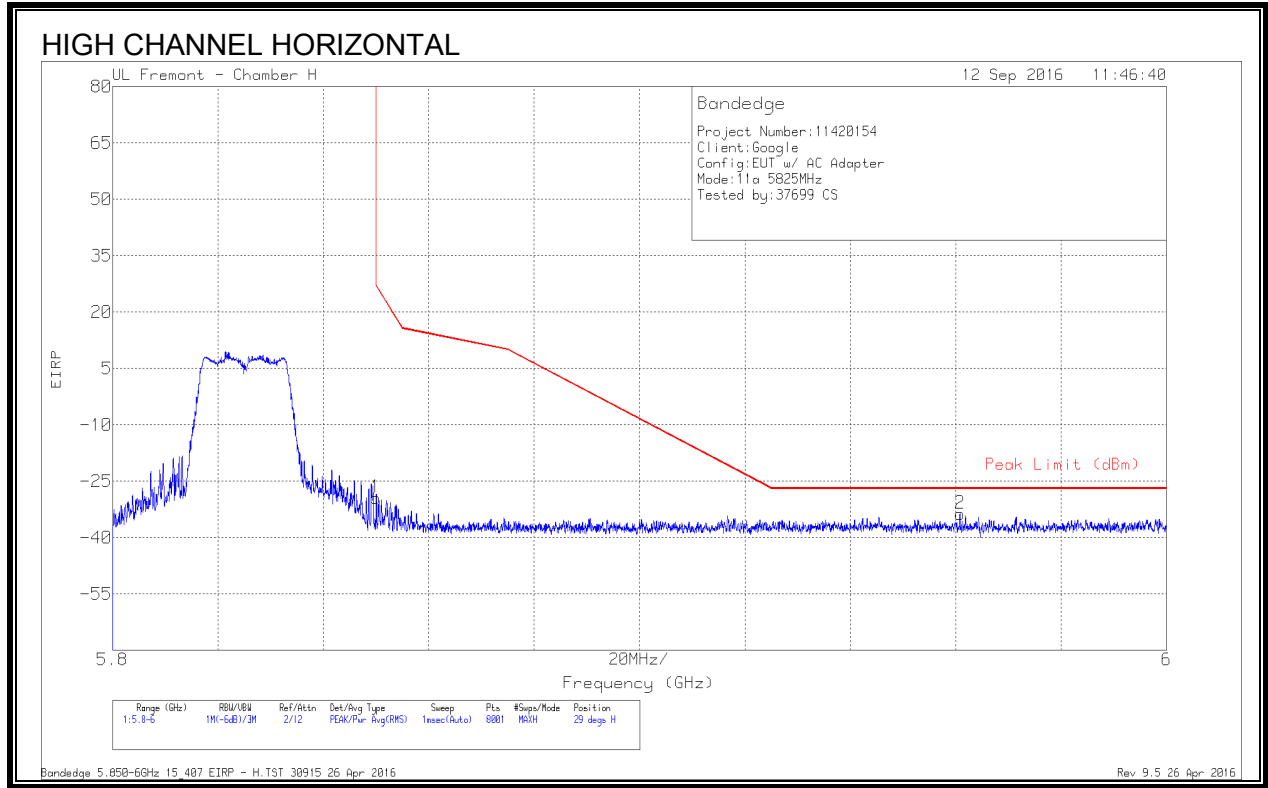
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.635	-66.97	Pk	34.7	-15.3	11.8	-35.77	-27	-8.77	31	364	V
1	5.725	-70.87	Pk	34.9	-15.1	11.8	-39.27	26.97	-66.24	31	364	V

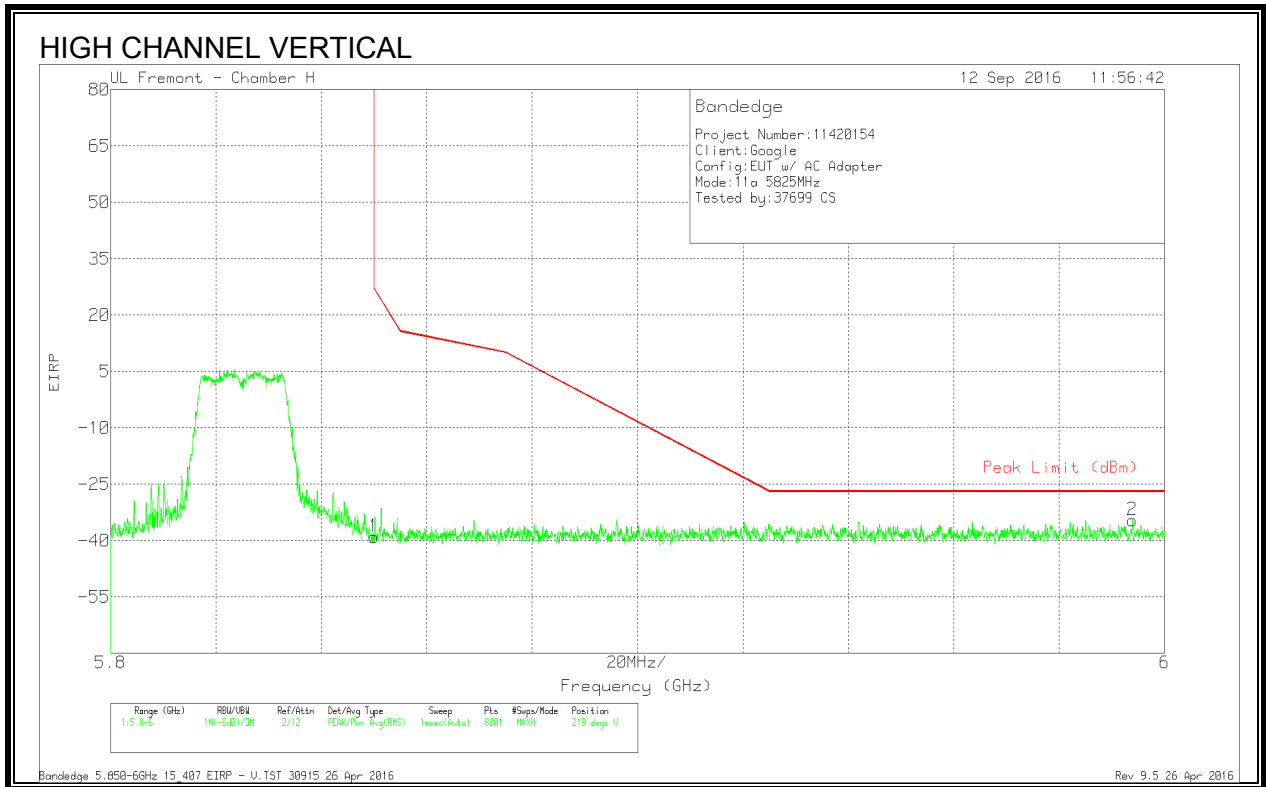
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cb/Fitr/P ad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-61.48	PK	35	-14.8	11.8	-29.48	26.94	-56.42	29	112	H
2	5.961	-66.19	PK	35.3	-14.5	11.8	-33.59	-27	-6.59	29	112	H

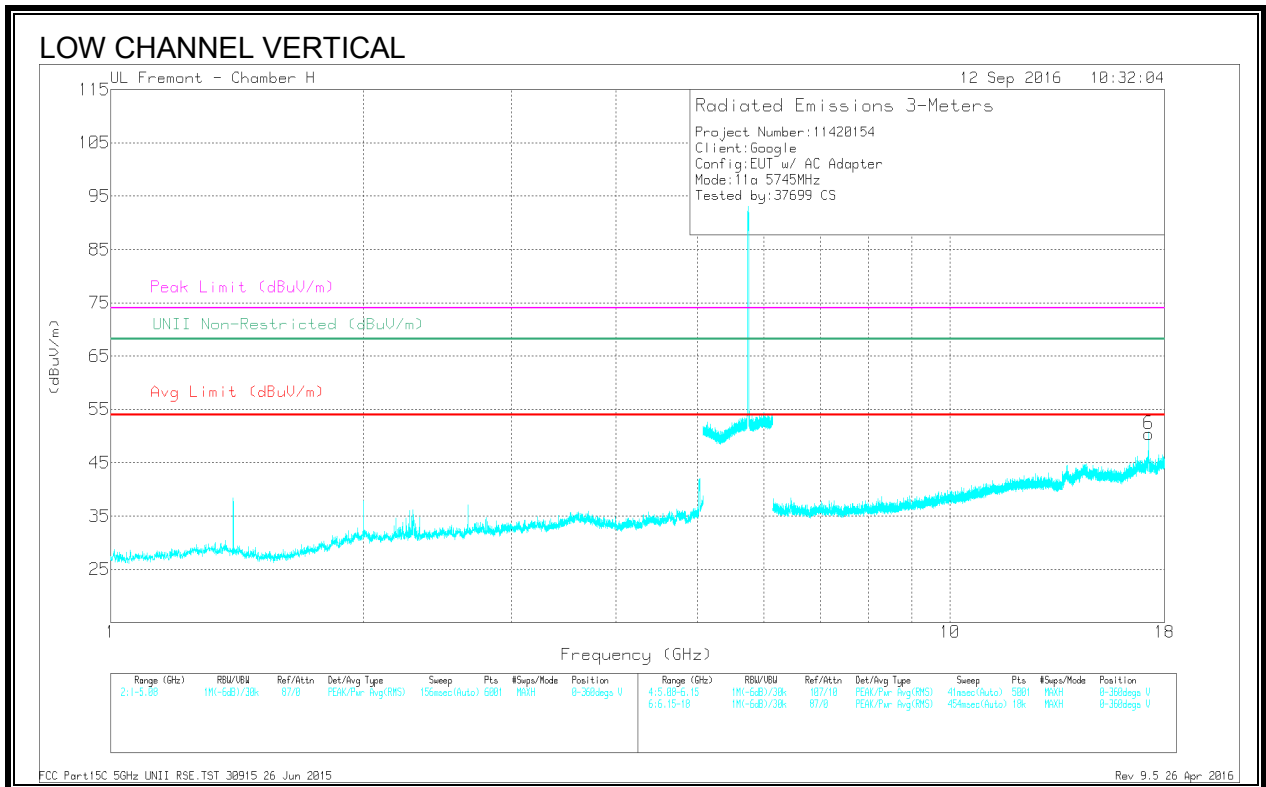
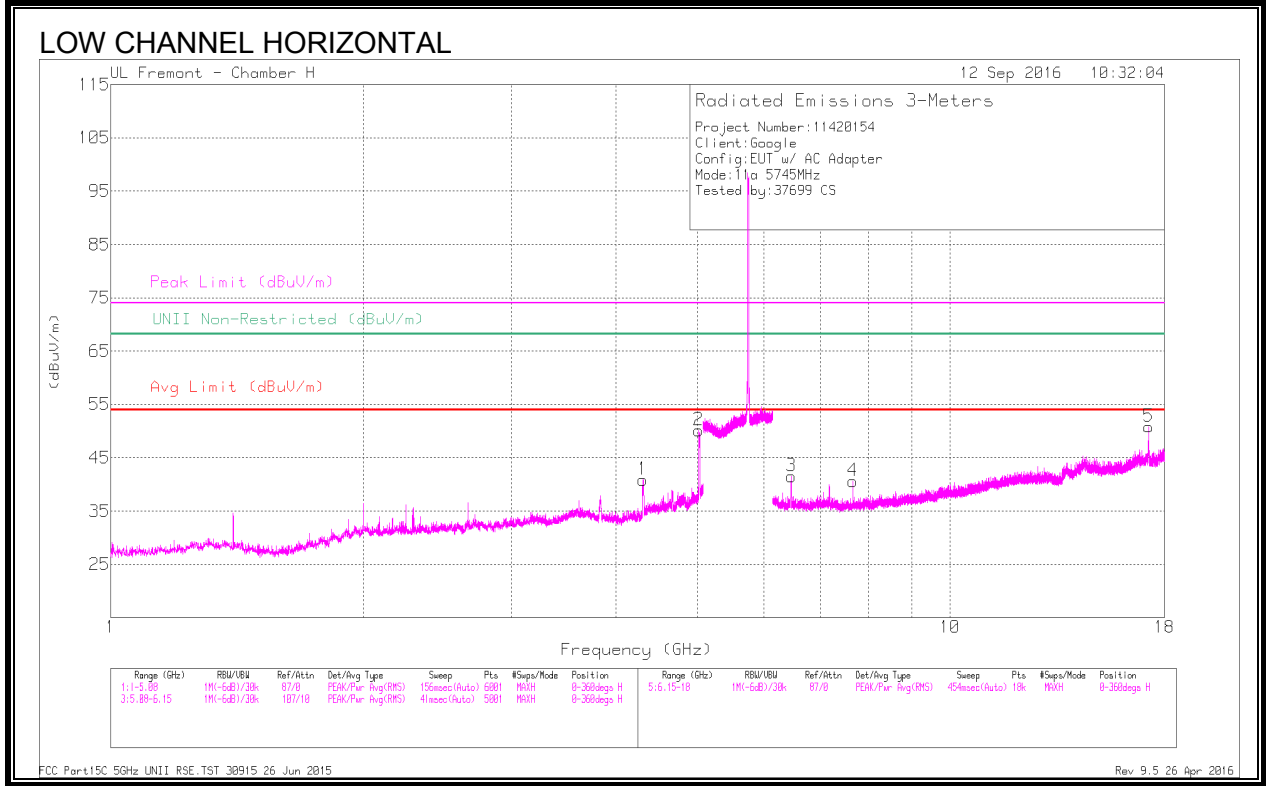
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-71	Pk	35	-14.8	11.8	-39	26.94	-65.94	219	233	V
2	5.994	-67.4	Pk	35.4	-14.4	11.8	-34.6	-27	-7.6	219	233	V

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

HARMONICS AND SPURIOUS EMISSIONS

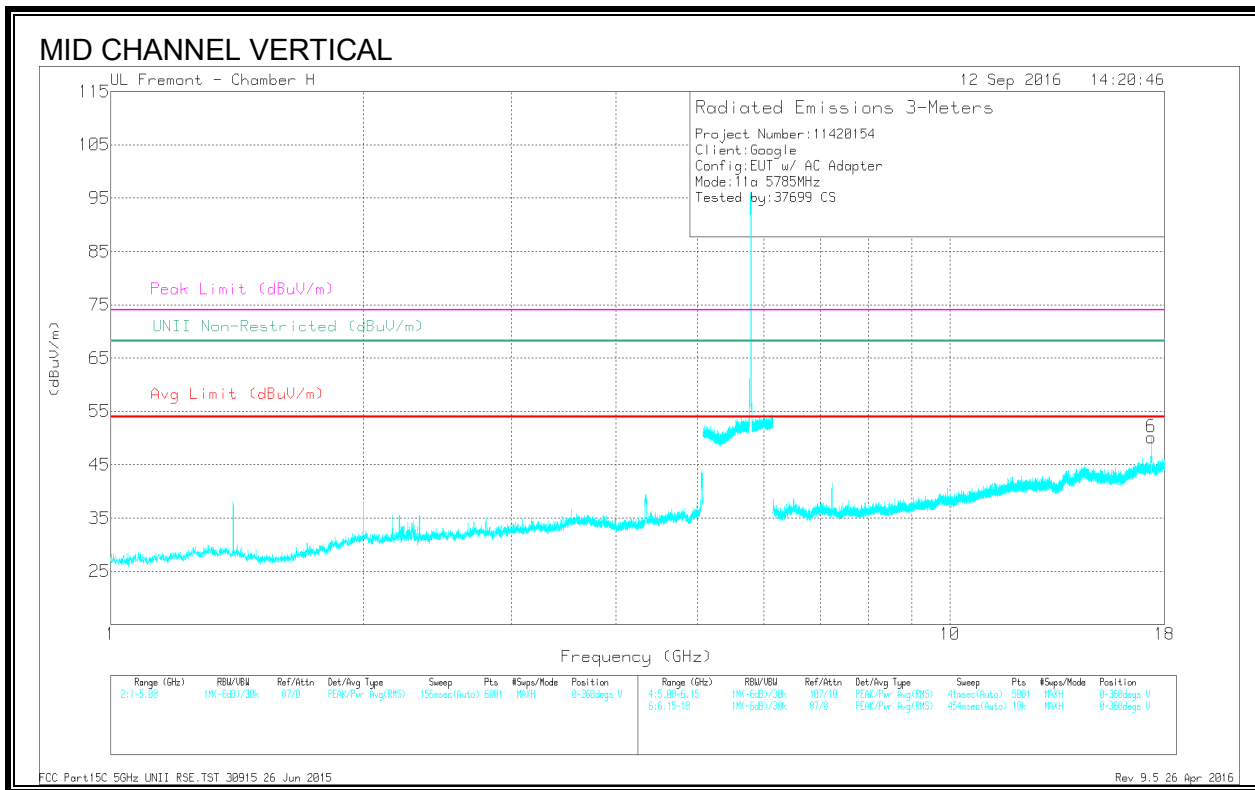
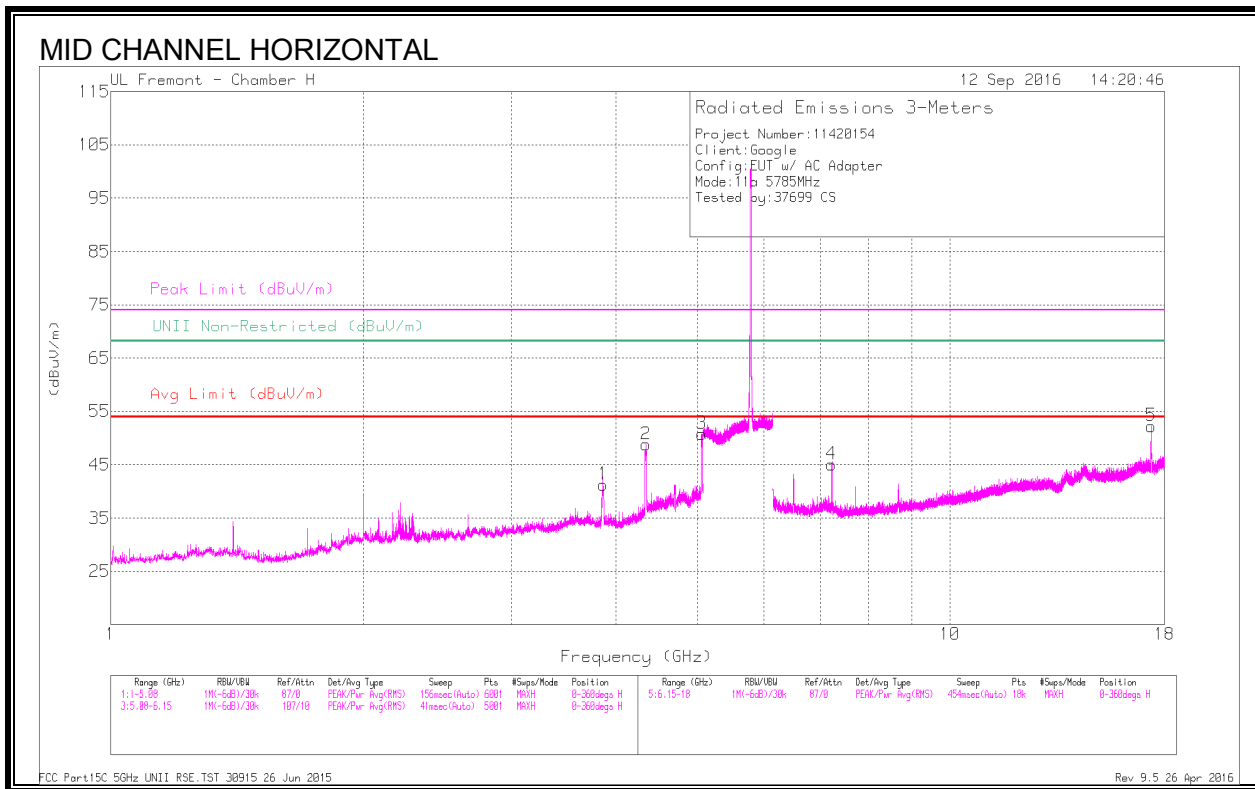


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.316	48.78	PK-U	33.5	-35.3	46.98	-	-	74	-27.02	-	-	83	105	H
	* 4.317	40.12	ADR	33.5	-35.3	38.32	54	-15.68	-	-	-	-	83	105	H
2	* 5.019	54.26	PK-U	34.1	-33.2	55.16	-	-	74	-18.84	-	-	94	108	H
	* 5.019	46.44	ADR	34.1	-33.2	47.34	54	-6.66	-	-	-	-	94	108	H
4	* 7.66	41.89	PK-U	35.8	-31.1	46.59	-	-	74	-27.41	-	-	356	101	H
	* 7.66	35.27	ADR	35.8	-31.1	39.97	54	-14.03	-	-	-	-	356	101	H
3	6.47	44.15	PK-U	35.7	-32.1	47.75	-	-	-	-	68.2	-20.45	45	103	H
6	17.231	41.36	PK-U	40.8	-24.7	57.46	-	-	-	-	68.2	-10.74	83	108	V
5	17.236	42.08	PK-U	40.8	-24.8	58.08	-	-	-	-	68.2	-10.12	343	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

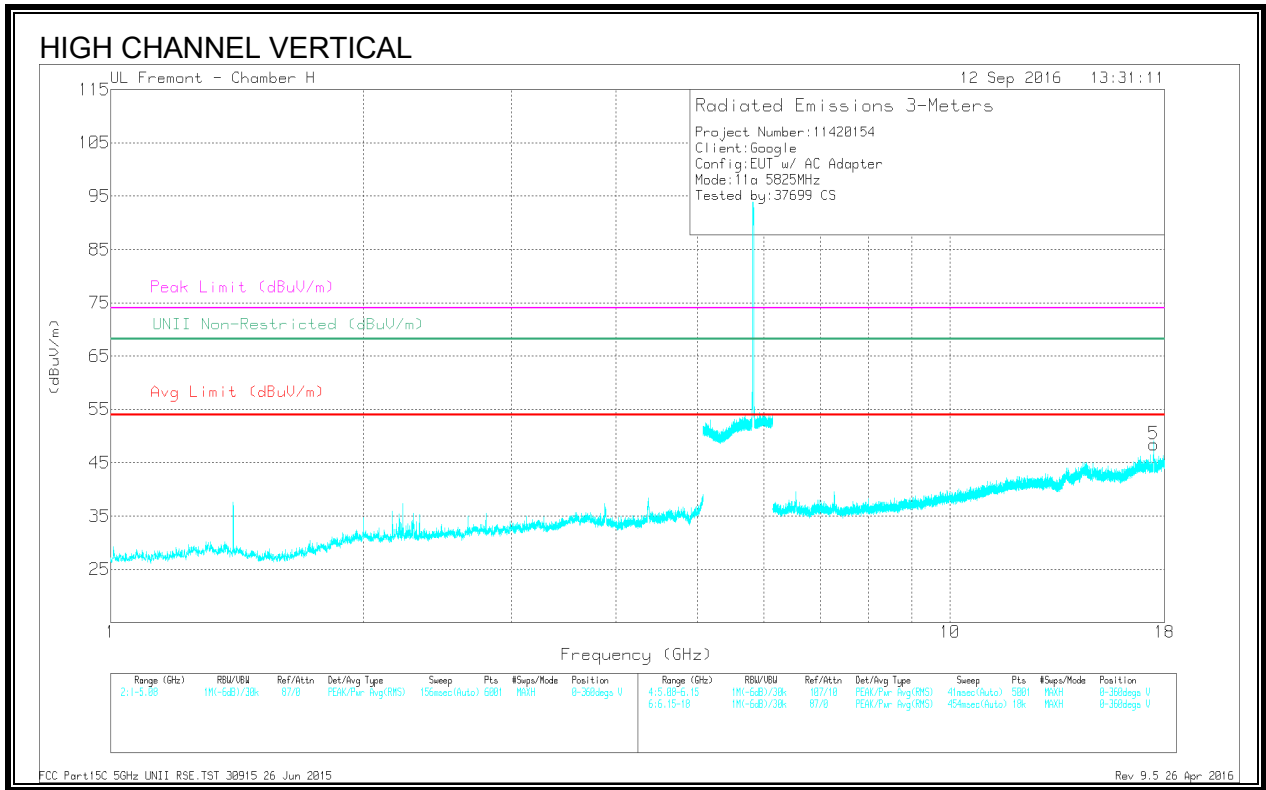
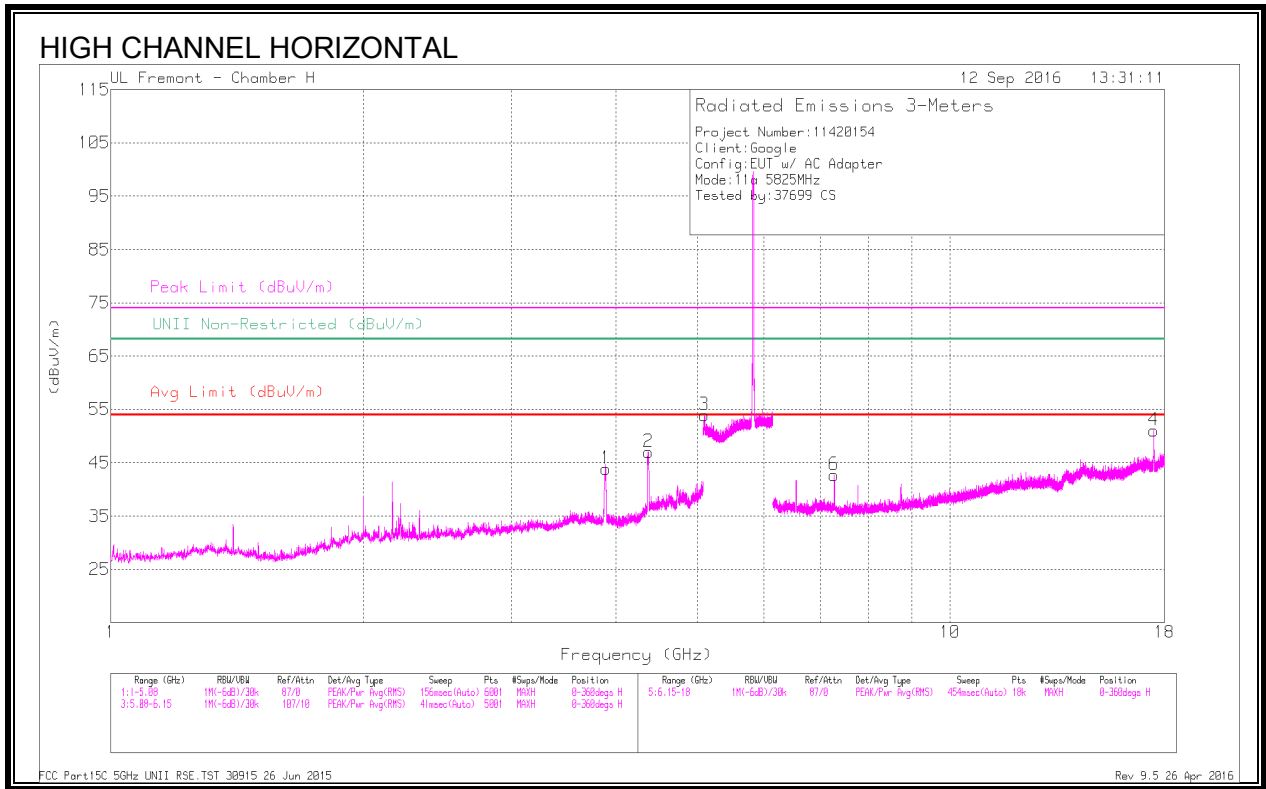


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 5.069	54.43	PK-U	34.1	-31.5	57.03	-	-	74	-16.97	-	-	86	127	H
	* 5.054	46.07	ADR	34.1	-32.3	47.87	54	-6.13	-	-	-	-	86	127	H
1	* 3.857	49.32	PK-U	33.8	-35.6	47.52	-	-	74	-26.48	-	-	78	138	H
	* 3.857	39.9	ADR	33.8	-35.6	38.1	54	-15.9	-	-	-	-	78	138	H
2	* 4.346	55.3	PK-U	33.6	-35.2	53.7	-	-	74	-20.3	-	-	90	136	H
	* 4.346	47.42	ADR	33.6	-35.2	45.82	54	-8.18	-	-	-	-	90	136	H
4	7.224	47.94	PK-U	35.7	-31.7	51.94	-	-	-	-	68.2	-16.26	87	106	H
6	17.347	41.7	PK-U	40.6	-24.5	57.8	-	-	-	-	68.2	-10.4	80	106	V
5	17.352	43.56	PK-U	40.6	-24.6	59.56	-	-	-	-	68.2	-8.64	95	103	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



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.883	52.64	PK-U	33.7	-35.6	50.74	-	-	74	-23.26	-	-	83	302	H
	* 3.883	42.36	ADR	33.7	-35.6	40.46	54	-13.54	-	-	-	-	83	302	H
2	* 4.372	54.02	PK-U	33.7	-35	52.72	-	-	74	-21.28	-	-	82	100	H
	* 4.371	46.14	ADR	33.7	-35	44.84	54	-9.16	-	-	-	-	82	100	H
3	* 5.095	41.97	PK-U	34.1	-16.5	59.57	-	-	74	-14.43	-	-	80	100	H
	* 5.104	32.23	ADR	34.1	-16.5	49.83	54	-4.17	-	-	-	-	80	100	H
6	* 7.294	43.32	PK-U	35.7	-31.3	47.72	-	-	74	-26.28	-	-	94	124	H
	* 7.278	34.49	ADR	35.7	-31.4	38.79	54	-15.21	-	-	-	-	94	124	H
4	17.474	41.2	PK-U	40.5	-23.7	58	-	-	-	-	68.2	-10.2	95	104	H
5	17.482	38.62	PK-U	40.5	-23.9	55.22	-	-	-	-	68.2	-12.98	76	101	V

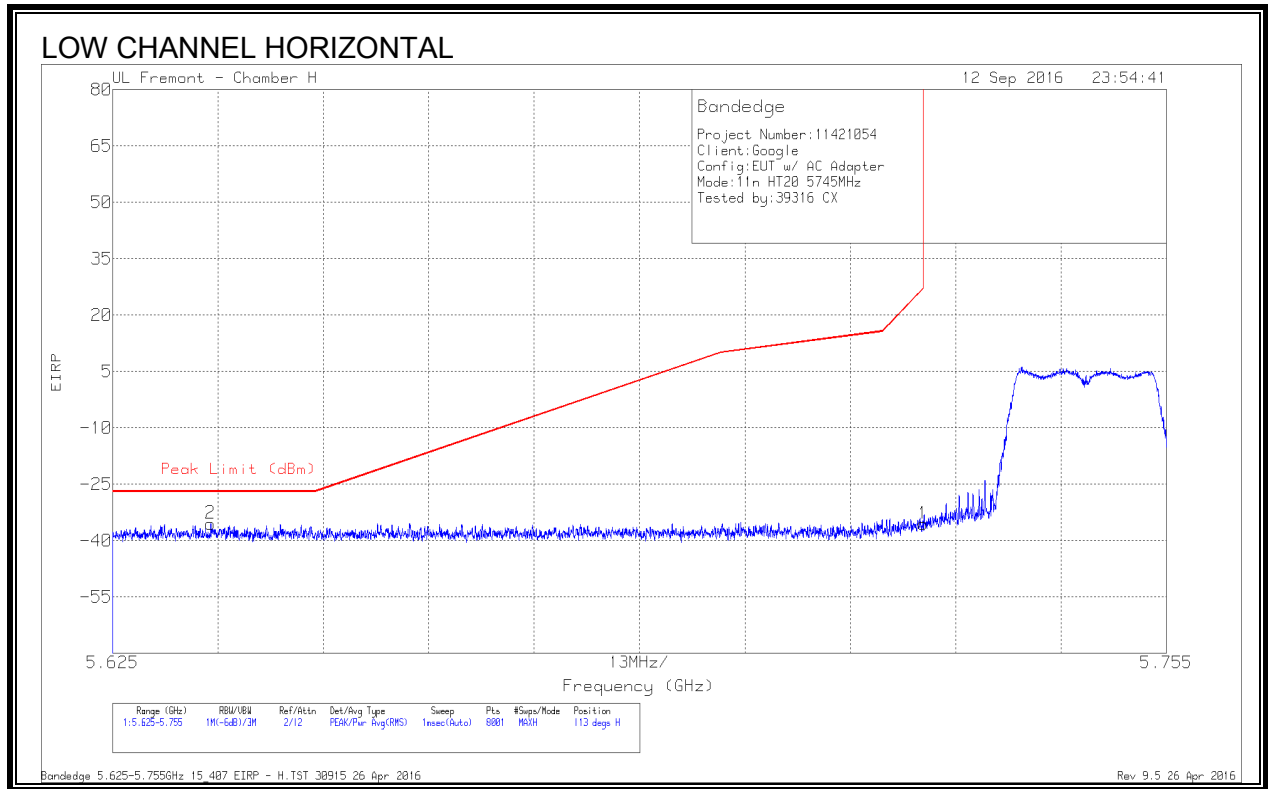
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

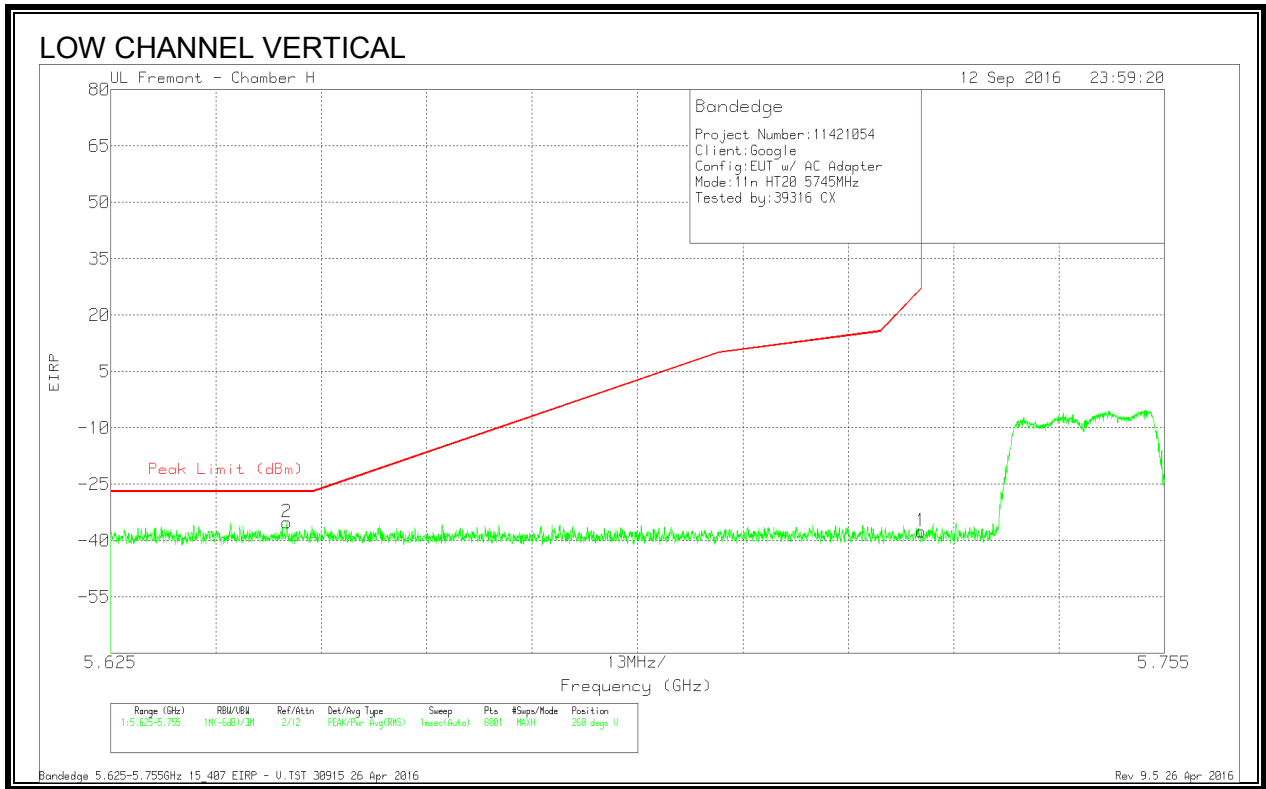
9.1.18. 11n HT20 MODE IN THE 5.8GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.637	-66.69	Pk	34.7	-15.3	11.8	-35.49	-27	-8.49	113	124	H
1	5.725	-67.2	Pk	34.9	-15.1	11.8	-35.6	26.97	-62.57	113	124	H

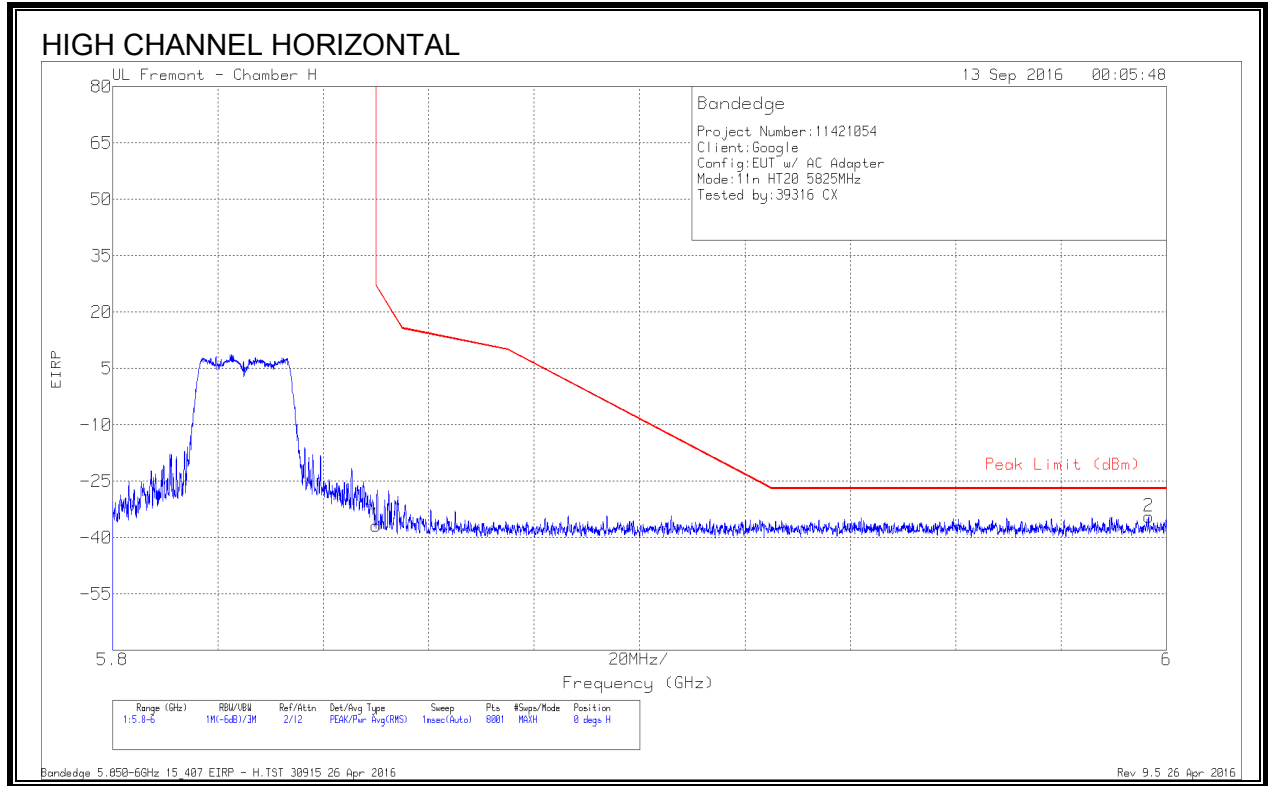
Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.647	-66.32	Pk	34.7	-15.3	11.8	-35.12	-27	-8.12	268	157	V
1	5.725	-69.15	Pk	34.9	-15.1	11.8	-37.55	26.97	-64.52	268	157	V

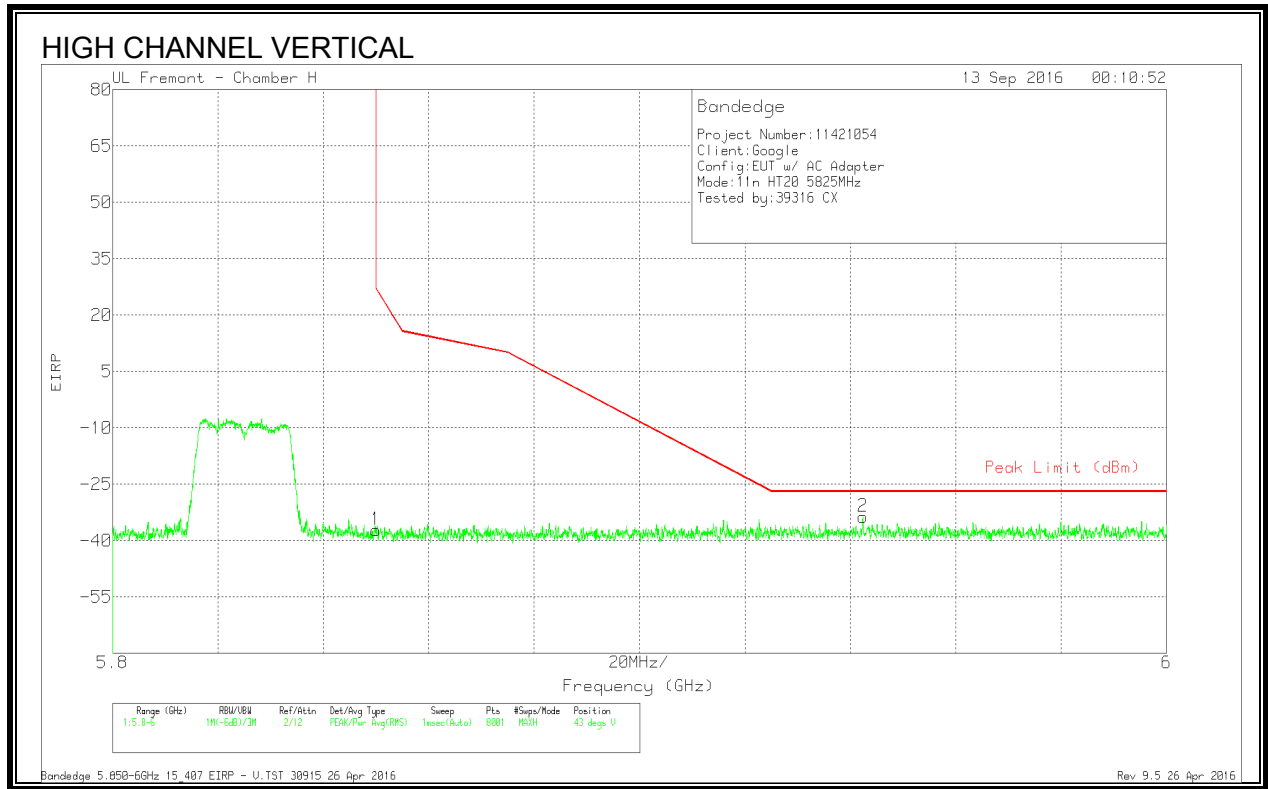
Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-68.76	PK	35	-14.8	11.8	-36.76	26.94	-63.7	0	118	H
2	5.997	-67.3	PK	35.4	-14.3	11.8	-34.4	-27	-7.4	0	118	H

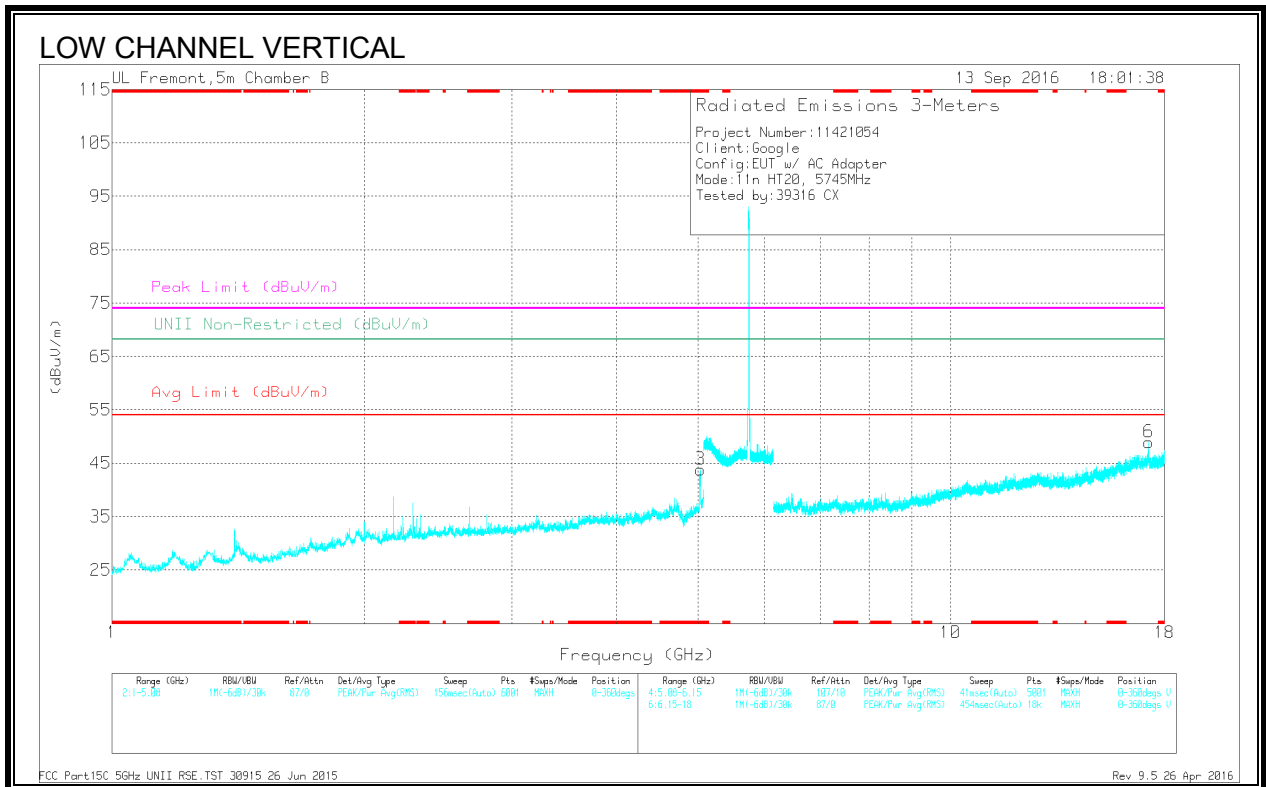
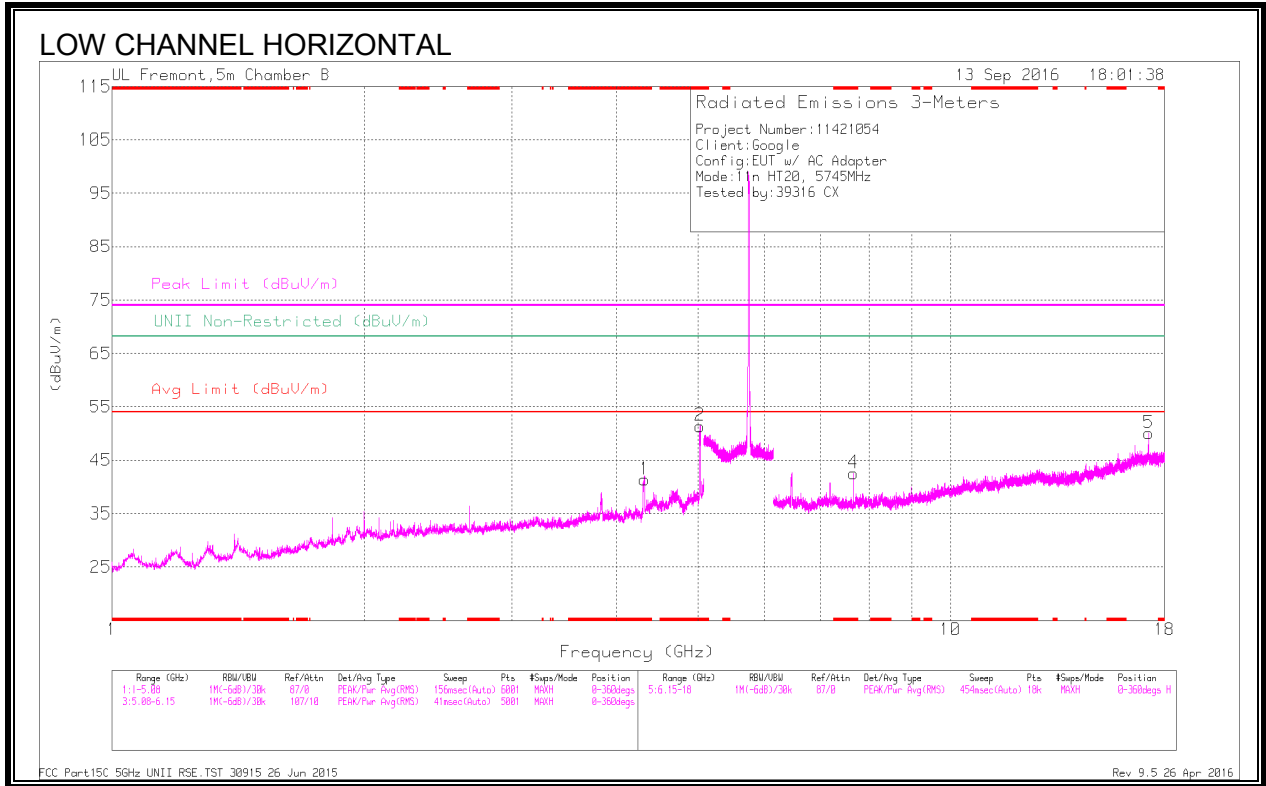
Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-69.23	Pk	35	-14.8	11.8	-37.23	26.94	-64.17	43	188	V
2	5.942	-66.08	Pk	35.2	-14.5	11.8	-33.58	-27	-6.58	43	188	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

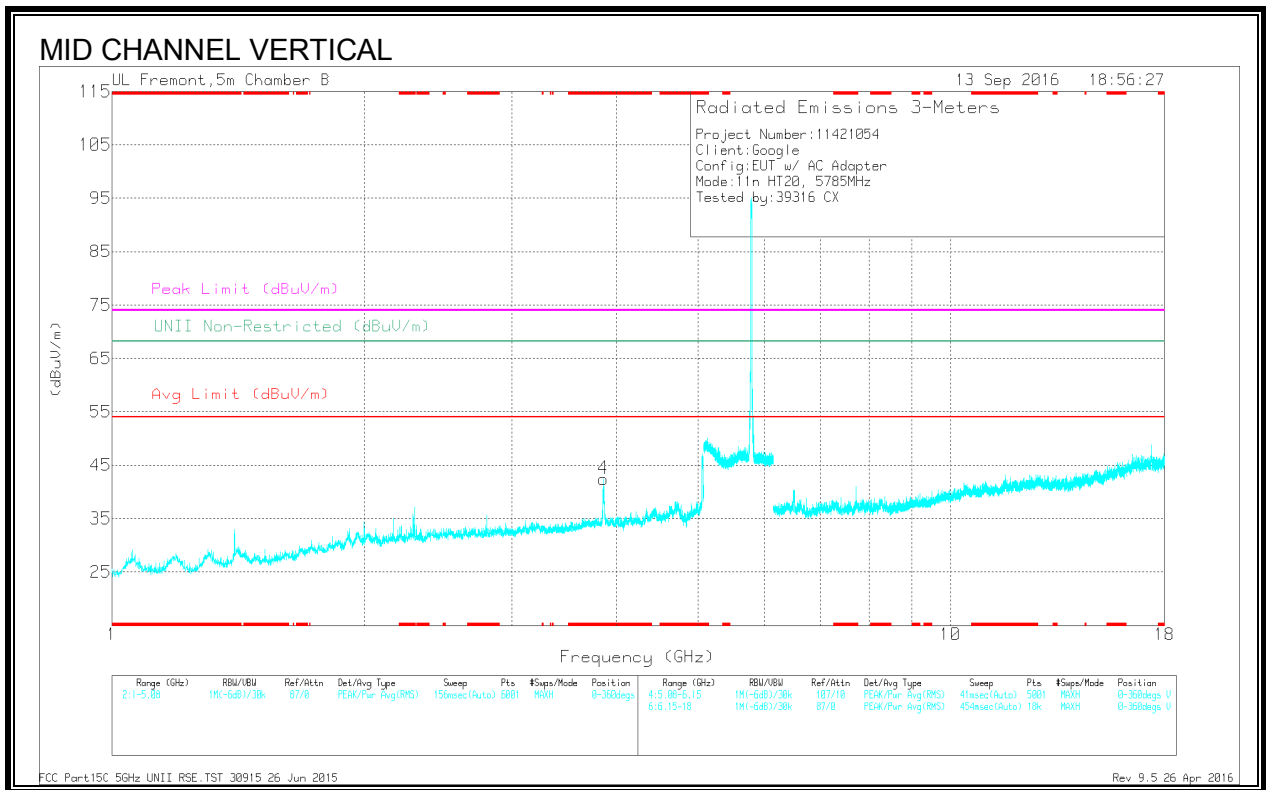
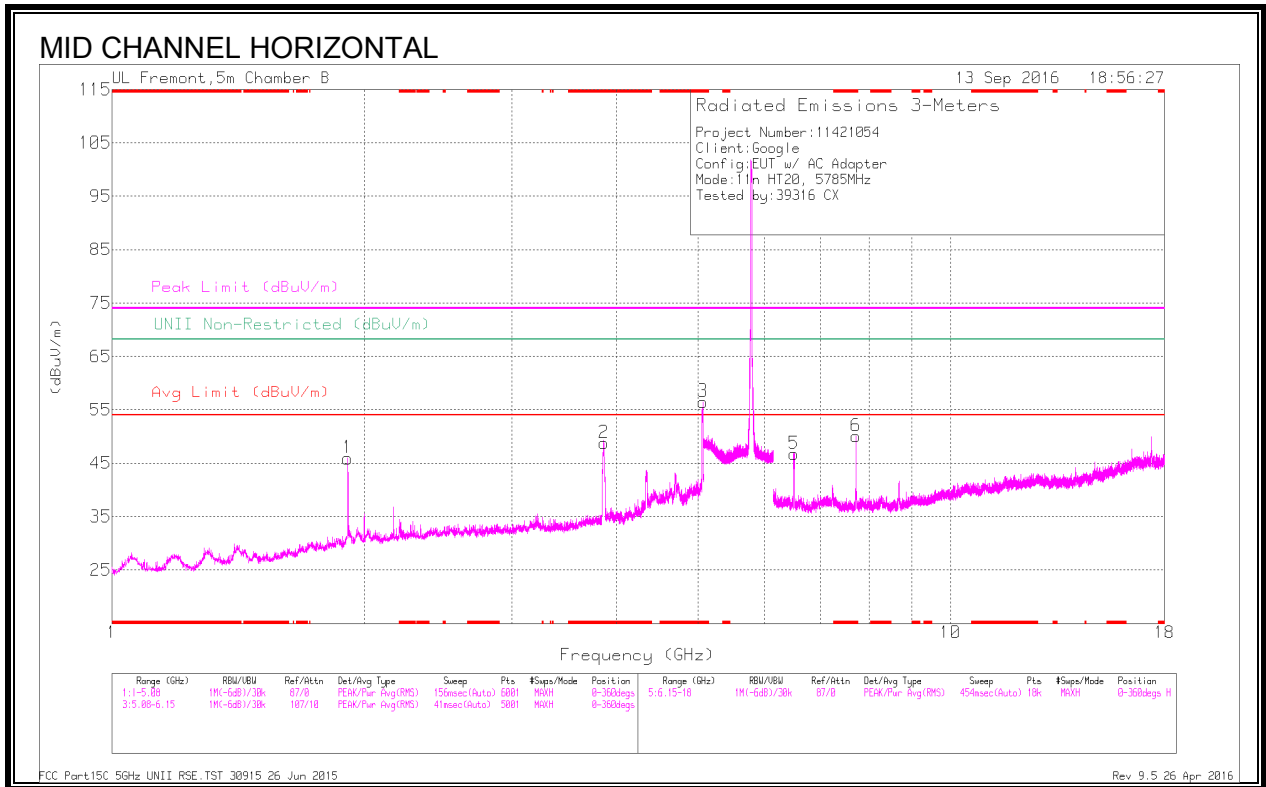


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	Amp/Cbll/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.025	53.21	PK-U	34.1	-30.1	57.21	-	-	74	-16.79	-	-	258	128	H
	* 5.019	45.82	ADR	34.1	-30.2	49.72	54	-4.28	-	-	-	-	258	128	H
1	* 4.302	48.73	PK-U	33.7	-33	49.43	-	-	74	-24.57	-	-	260	106	H
	* 4.316	40.27	ADR	33.7	-32.8	41.17	54	-12.83	-	-	-	-	260	106	H
3	* 5.03	47.08	PK-U	34.1	-30	51.18	-	-	74	-22.82	-	-	51	239	V
	* 5.035	38.95	ADR	34.1	-29.9	43.15	54	-10.85	-	-	-	-	51	239	V
4	* 7.66	43.7	PK-U	35.7	-30.2	49.2	-	-	74	-24.8	-	-	194	111	H
	* 7.66	35.9	ADR	35.7	-30.2	41.4	54	-12.6	-	-	-	-	194	111	H
5	17.233	37.51	PK-U	41.3	-23.2	55.61	-	-	-	-	68.2	-12.59	184	109	H
6	17.24	37.1	PK-U	41.3	-23.2	55.2	-	-	-	-	68.2	-13	245	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

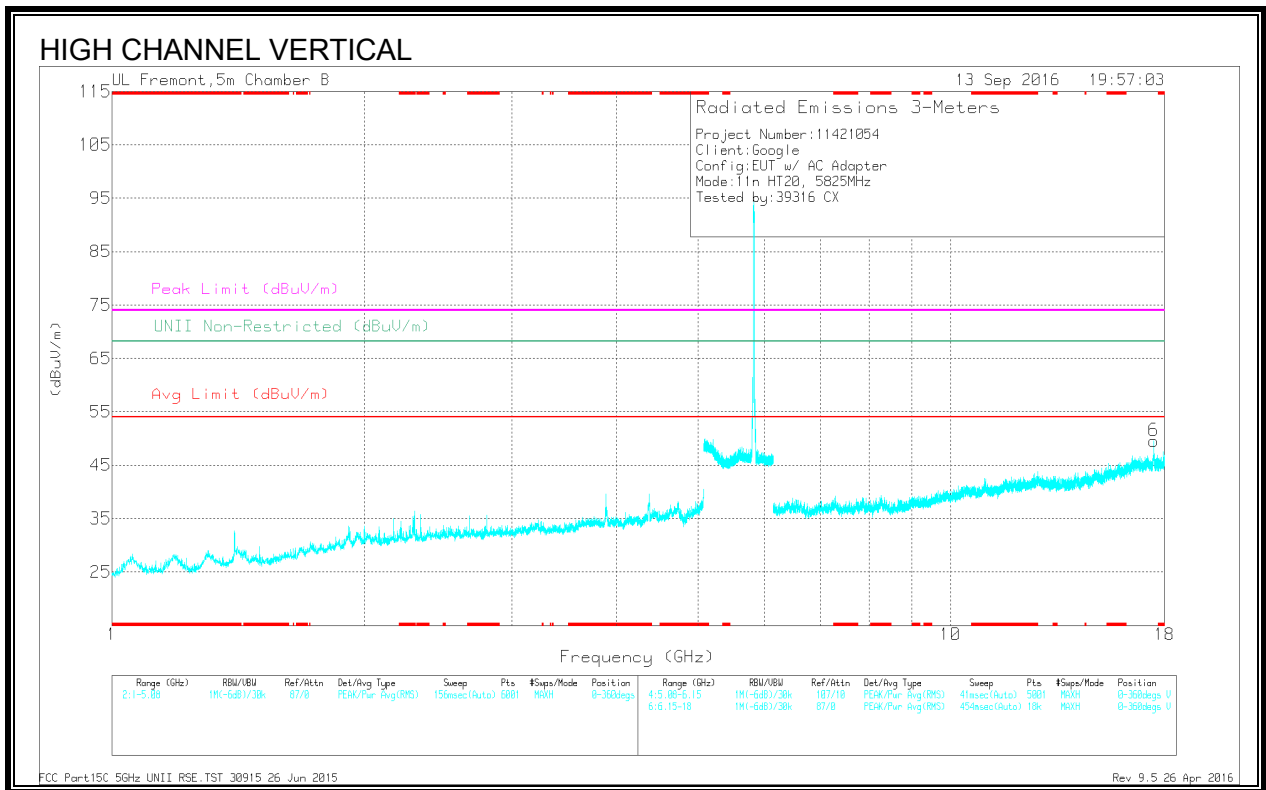
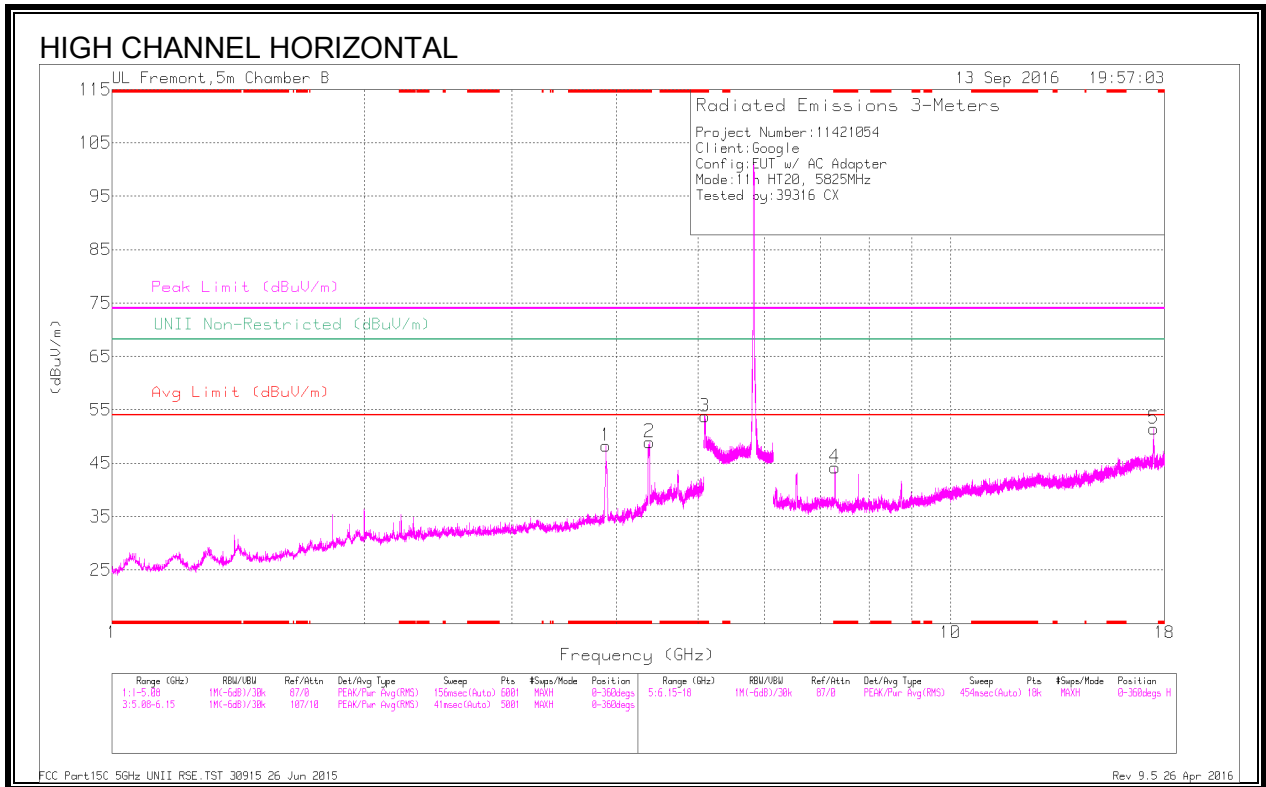


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 5.07	50.59	PK-U	34.1	-29.2	55.49	-	-	74	-18.51	-	-	261	102	H
	* 5.054	42.11	ADR	34.1	-29.9	46.31	54	-7.69	-	-	-	-	261	102	H
2	* 3.857	52.04	PK-U	33.4	-33.1	52.34	-	-	74	-21.66	-	-	273	139	H
	* 3.857	39.57	ADR	33.4	-33.1	39.87	54	-14.13	-	-	-	-	273	139	H
4	* 3.853	45.4	PK-U	33.4	-33.2	45.6	-	-	74	-28.4	-	-	213	351	V
	* 3.857	34.3	ADR	33.4	-33.1	34.6	54	-19.4	-	-	-	-	213	351	V
6	* 7.713	43	PK-U	35.8	-29.7	49.1	-	-	74	-24.9	-	-	189	111	H
	* 7.713	36.56	ADR	35.8	-29.7	42.66	54	-11.34	-	-	-	-	189	111	H
1	1.923	41.48	PK-U	31	-34.1	38.38	-	-	-	-	68.2	-29.82	0	296	H
5	6.5	45.32	PK-U	35.6	-31.5	49.42	-	-	-	-	68.2	-18.78	215	111	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



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.883	51.24	PK-U	33.3	-32.8	51.74	-	-	74	-22.26	-	-	276	139	H
	* 3.883	40.69	ADR	33.3	-32.8	41.19	54	-12.81	-	-	-	-	276	139	H
2	* 4.366	51	PK-U	33.9	-32.1	52.8	-	-	74	-21.2	-	-	239	104	H
	* 4.361	42.8	ADR	33.9	-32.2	44.5	54	-9.5	-	-	-	-	239	104	H
3	* 5.095	44.26	PK-U	34.1	-19.4	58.96	-	-	74	-15.04	-	-	261	101	H
	* 5.089	35.56	ADR	34.1	-19.4	50.26	54	-3.74	-	-	-	-	261	101	H
4	* 7.278	40.51	PK-U	35.6	-28.8	47.31	-	-	74	-26.69	-	-	182	112	H
	* 7.289	31.72	ADR	35.6	-28.8	38.52	54	-15.48	-	-	-	-	182	112	H
6	17.476	37.91	PK-U	41.3	-22.9	56.31	-	-	-	-	88.2	-11.89	270	251	V
5	17.477	38.71	PK-U	41.3	-22.8	57.21	-	-	-	-	88.2	-10.99	228	106	H

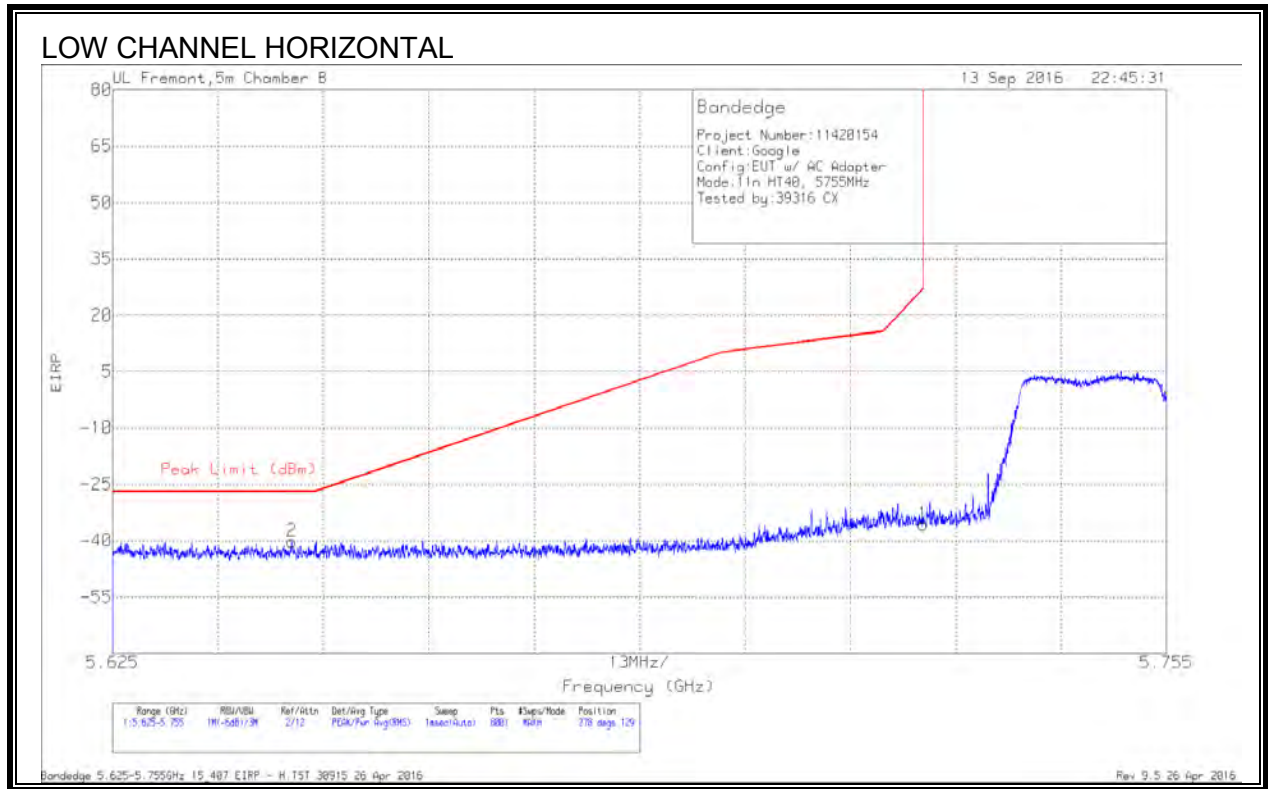
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

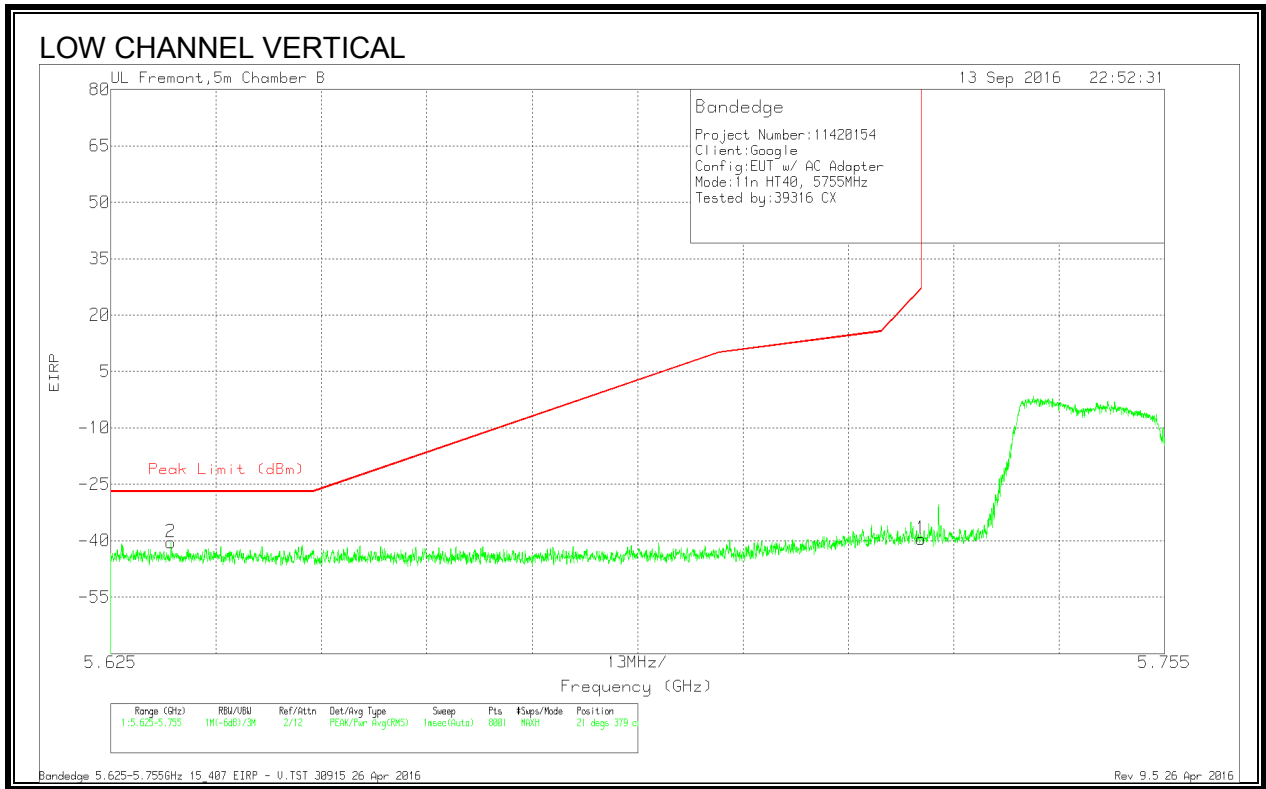
9.1.19. 11n HT40 MODE IN THE 5.8GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.647	-65.24	Pk	34.7	-21.5	11.8	-40.24	-27	-13.24	278	129	H
1	5.725	-60.67	Pk	34.9	-21.7	11.8	-35.67	26.97	-62.64	278	129	H

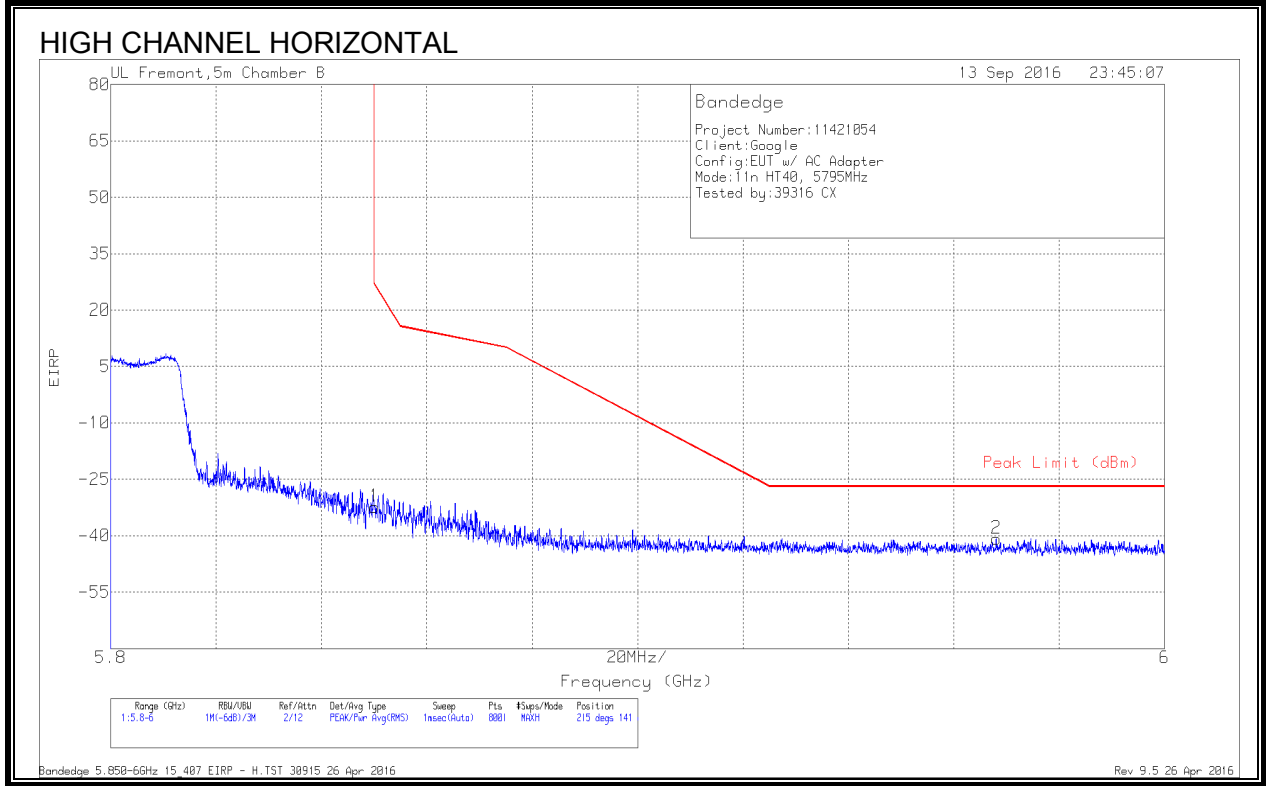
Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.632	-65.51	Pk	34.6	-21.4	11.8	-40.51	-27	-13.51	21	379	V
1	5.725	-64.44	Pk	34.9	-21.7	11.8	-39.44	26.97	-66.41	21	379	V

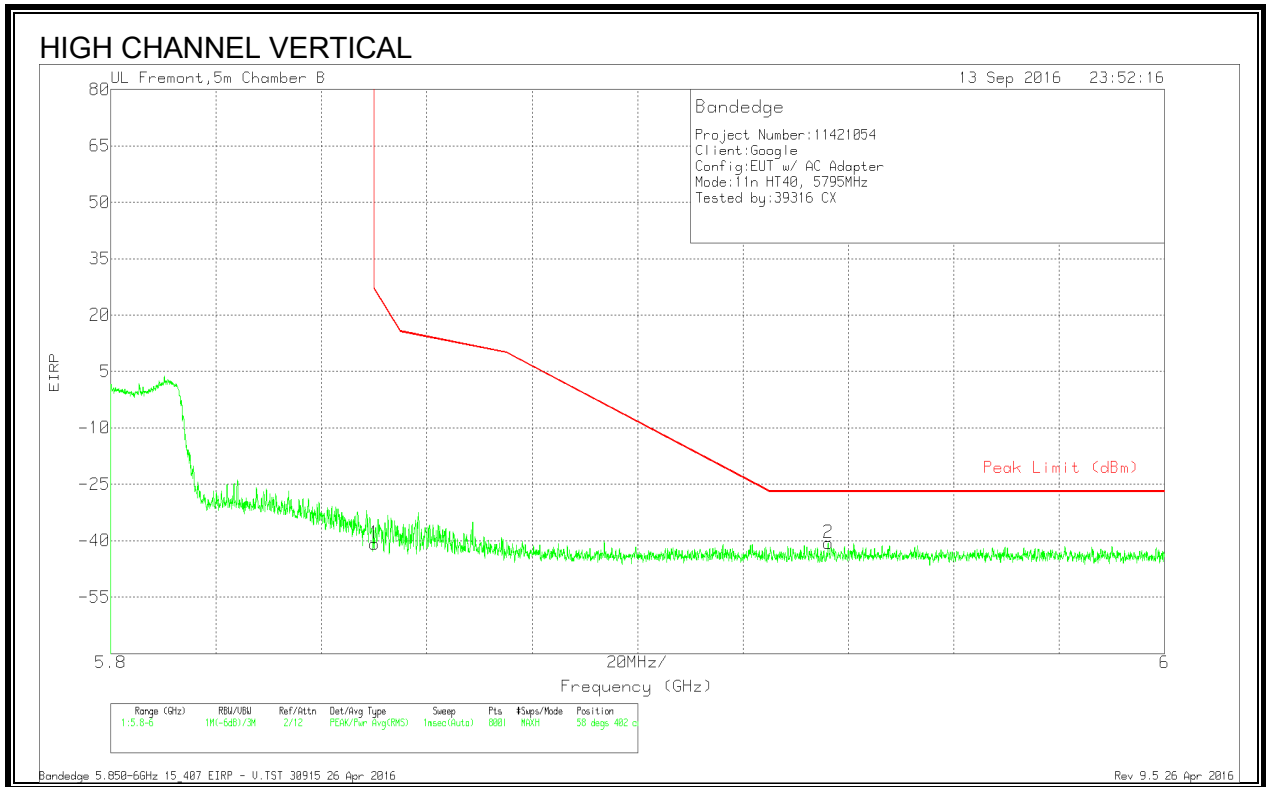
Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-57.77	PK	35.2	-21.6	11.8	-32.37	26.94	-59.31	215	141	H
2	5.968	-66.44	PK	35.2	-21.3	11.8	-40.74	-27	-13.74	215	141	H

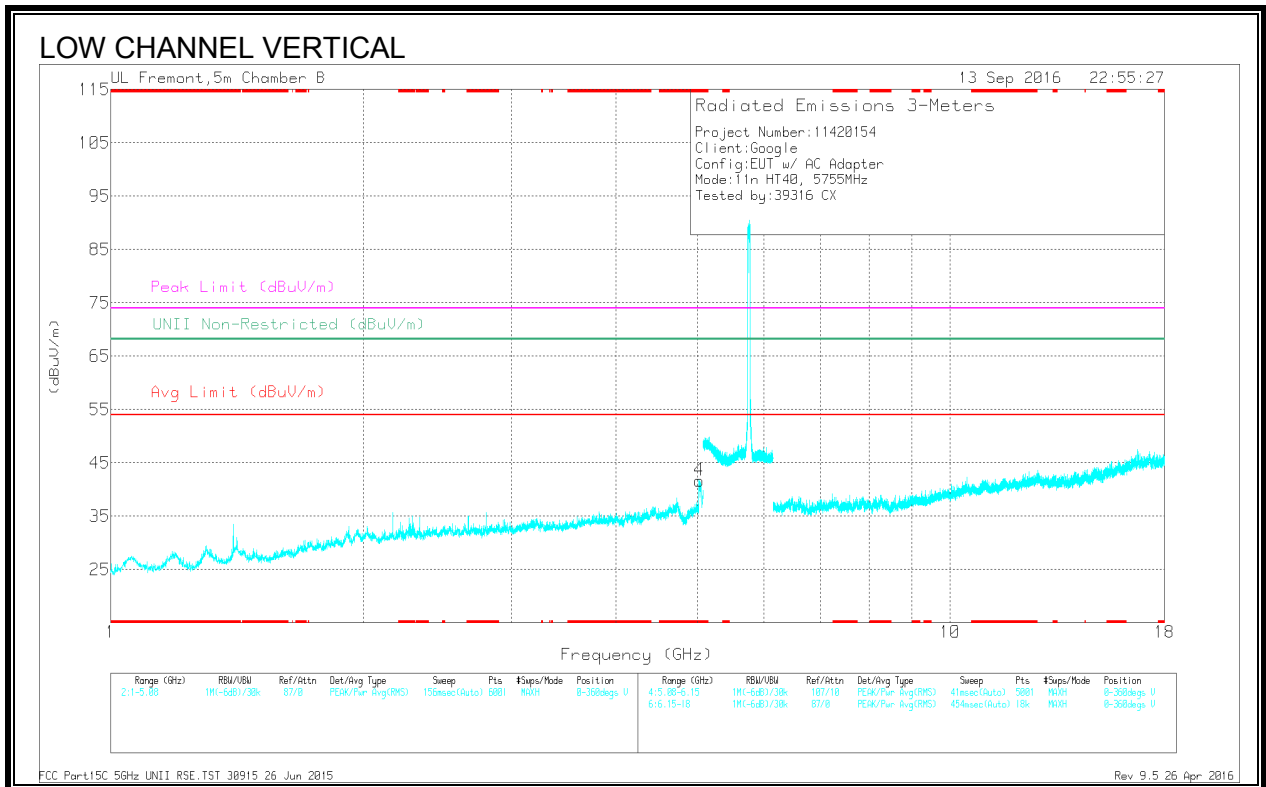
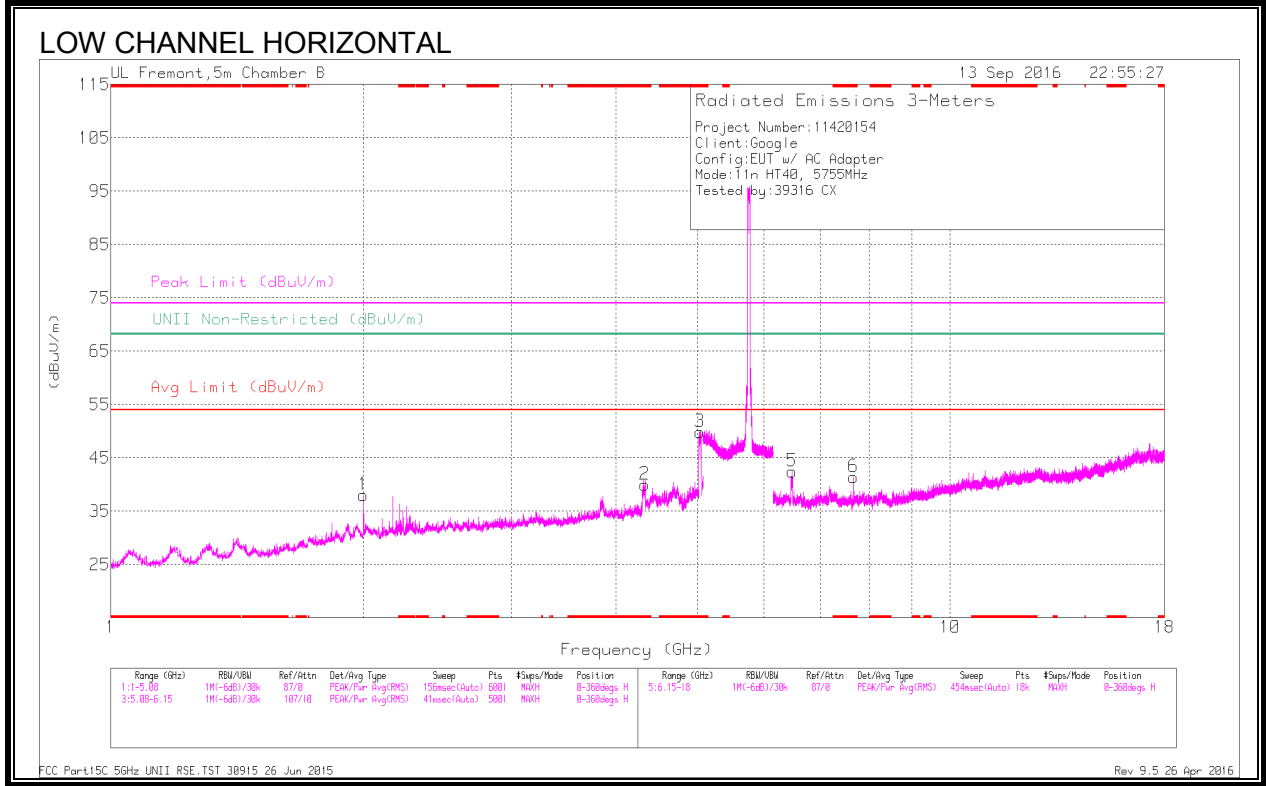
Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-66.14	Pk	35.2	-21.6	11.8	-40.74	26.94	-67.68	58	402	V
2	5.936	-66.35	Pk	35.3	-21.4	11.8	-40.65	-27	-13.65	58	402	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

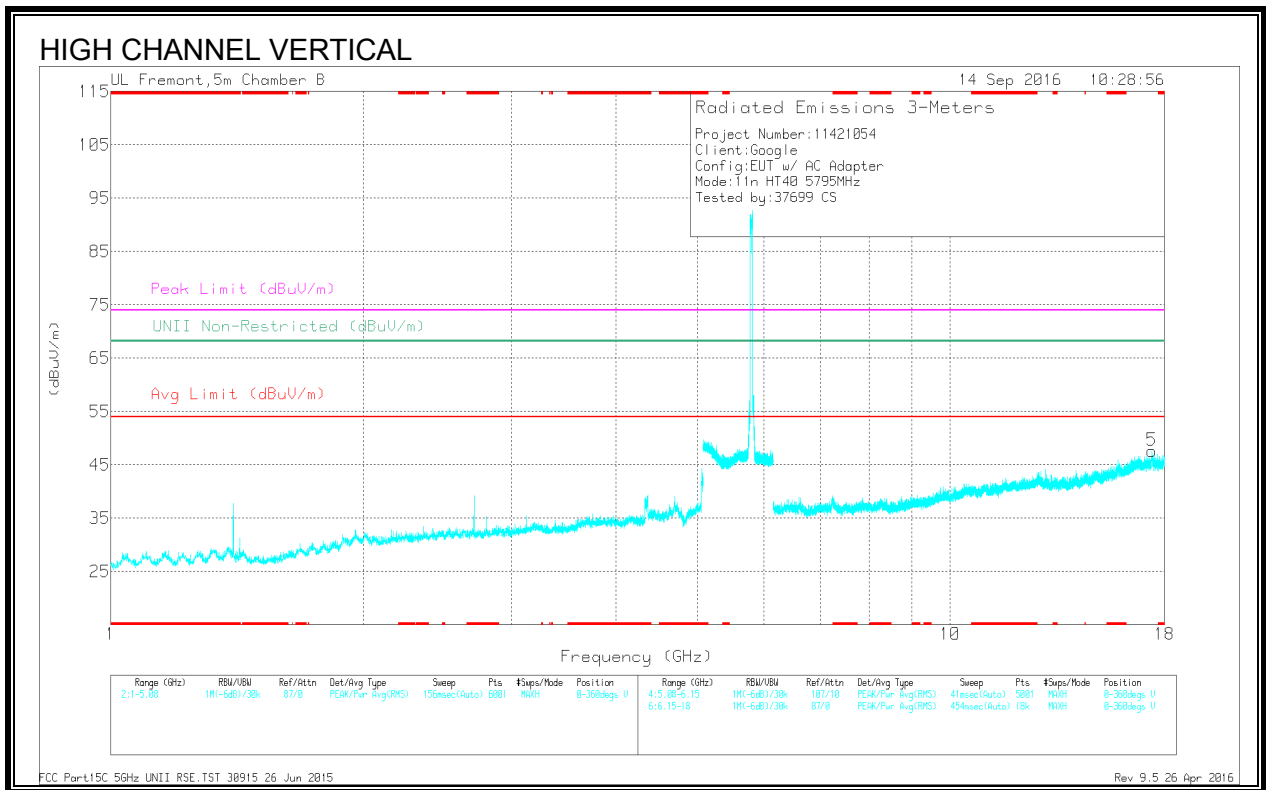
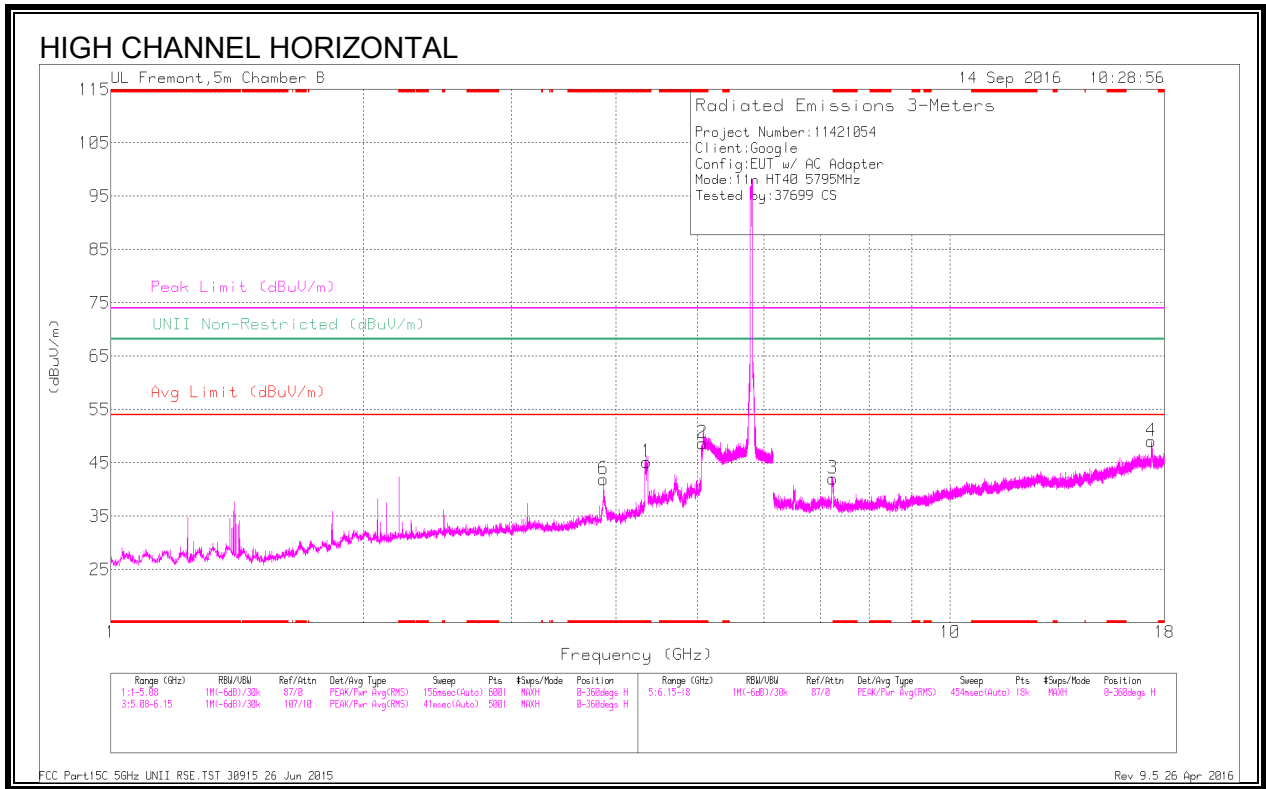


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4.3	47.04	PK-U	33.7	-33	47.74	-	-	74	-26.26	-	-	239	105	H
	* 4.312	38.2	ADR	33.7	-32.9	39	54	-15	-	-	-	-	239	105	H
3	* 5.03	52.67	PK-U	34.1	-29.9	56.87	-	-	74	-17.13	-	-	262	107	H
	* 5.03	45.08	ADR	34.1	-29.9	49.28	54	-4.72	-	-	-	-	262	107	H
4	* 5.028	47.06	PK-U	34.1	-30	51.16	-	-	74	-22.84	-	-	50	269	V
	* 5.02	38.02	ADR	34.1	-30.2	41.92	54	-12.08	-	-	-	-	50	269	V
6	* 7.673	42.39	PK-U	35.7	-30.1	47.99	-	-	74	-26.01	-	-	194	102	H
	* 7.673	36.16	ADR	35.7	-30.1	41.76	54	-12.24	-	-	-	-	194	102	H
1	2	45.5	PK-U	31.5	-34.2	42.8	-	-	-	-	68.2	-25.4	202	260	H
5	6.489	44.27	PK-U	35.6	-31.2	48.67	-	-	-	-	68.2	-19.53	185	123	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



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.329	50.77	PK-U	33.8	-32.7	51.87	-	-	74	-22.13	-	-	250	195	H
	* 4.331	42.3	ADR	33.8	-32.6	43.5	54	-10.5	-	-	-	-	250	195	H
2	* 5.067	50.48	PK-U	34.1	-29.6	54.98	-	-	74	-19.02	-	-	271	111	H
	* 5.066	42.56	ADR	34.1	-29.6	47.06	54	-6.94	-	-	-	-	271	111	H
6	* 3.865	48.08	PK-U	33.4	-33	48.48	-	-	74	-25.52	-	-	266	289	H
	* 3.863	38.82	ADR	33.4	-33	39.22	54	-14.78	-	-	-	-	266	289	H
3	* 7.26	40.73	PK-U	35.6	-28.5	47.83	-	-	74	-26.17	-	-	252	117	H
	* 7.26	32.01	ADR	35.6	-28.5	39.11	54	-14.89	-	-	-	-	252	117	H
5	17.386	36.21	PK-U	41.3	-22.8	54.71	-	-	-	-	68.2	-13.49	43	108	V
4	17.384	35.66	PK-U	41.3	-22.9	54.06	-	-	-	-	68.2	-14.14	208	202	H

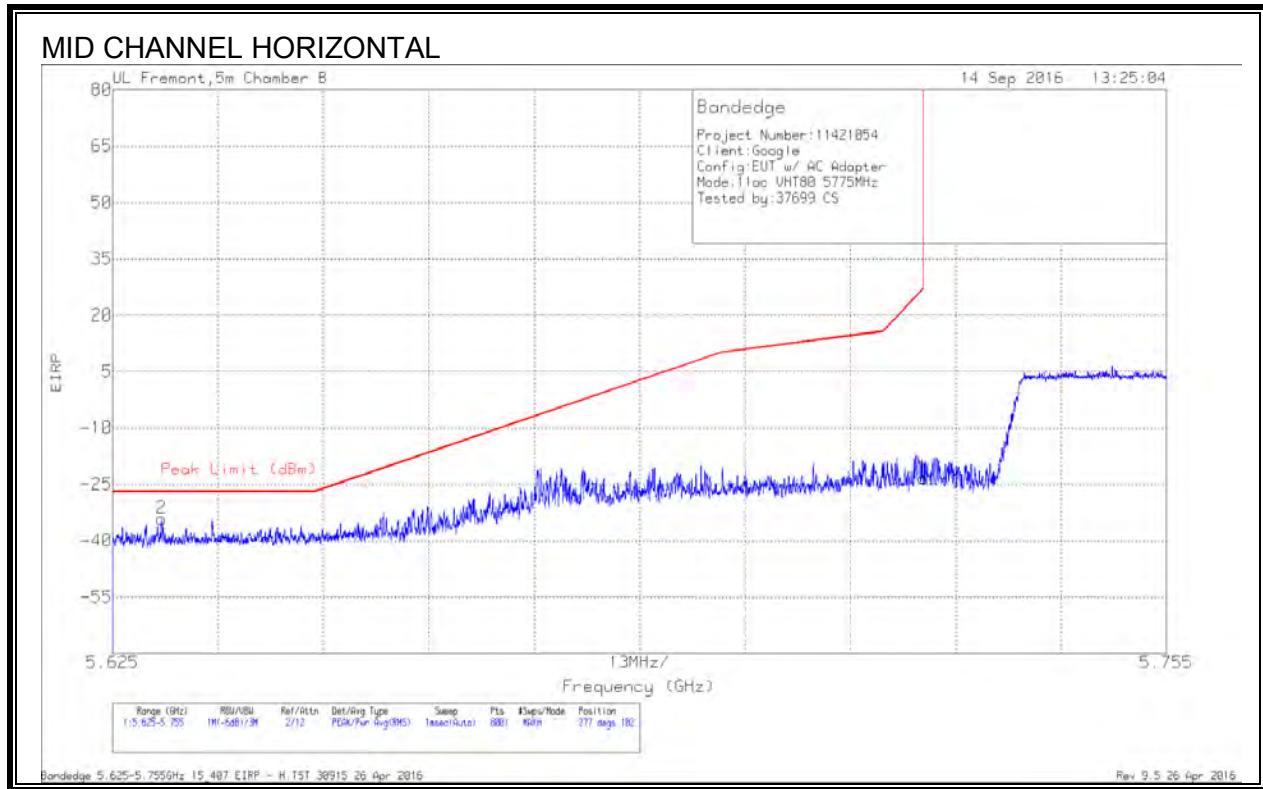
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

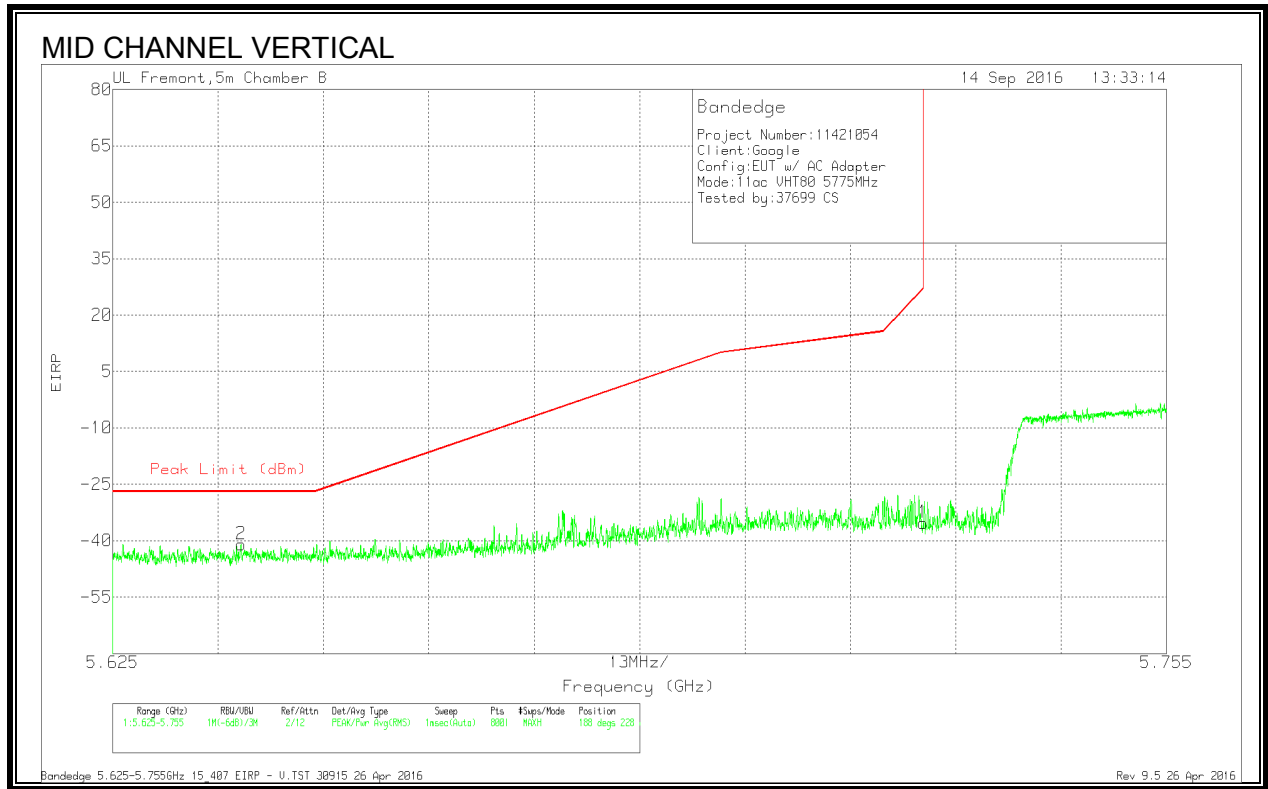
9.1.20. 11ac VHT80 MODE IN THE 5.8GHz BAND

RESTRICTED BANDEDGE (MID CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.631	-59.37	Pk	34.6	-21.2	11.8	-34.17	-27	-7.17	277	102	H
1	5.725	-48.28	Pk	34.9	-21.7	11.8	-23.28	26.97	-50.25	277	102	H

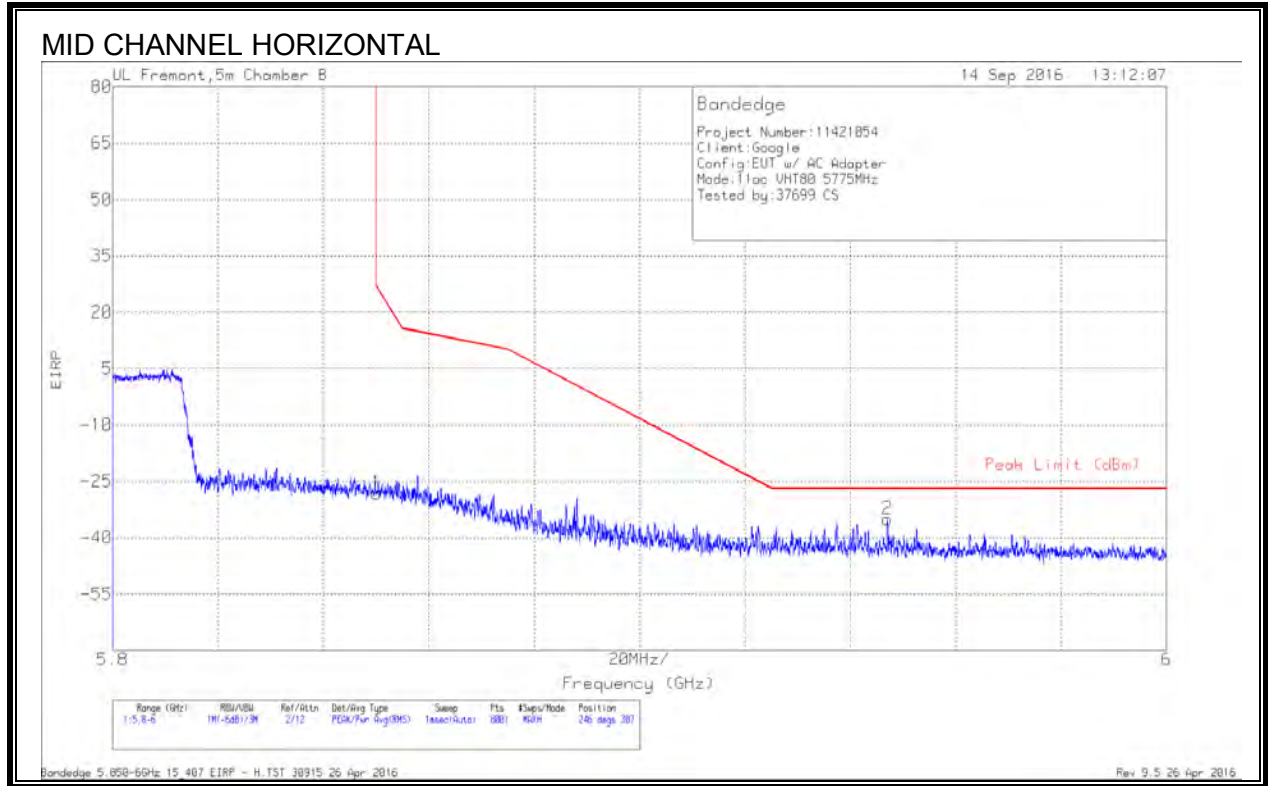
Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.641	-65.91	Pk	34.7	-21.5	11.8	-40.91	-27	-13.91	188	228	V
1	5.725	-60.2	Pk	34.9	-21.7	11.8	-35.2	26.97	-62.17	188	228	V

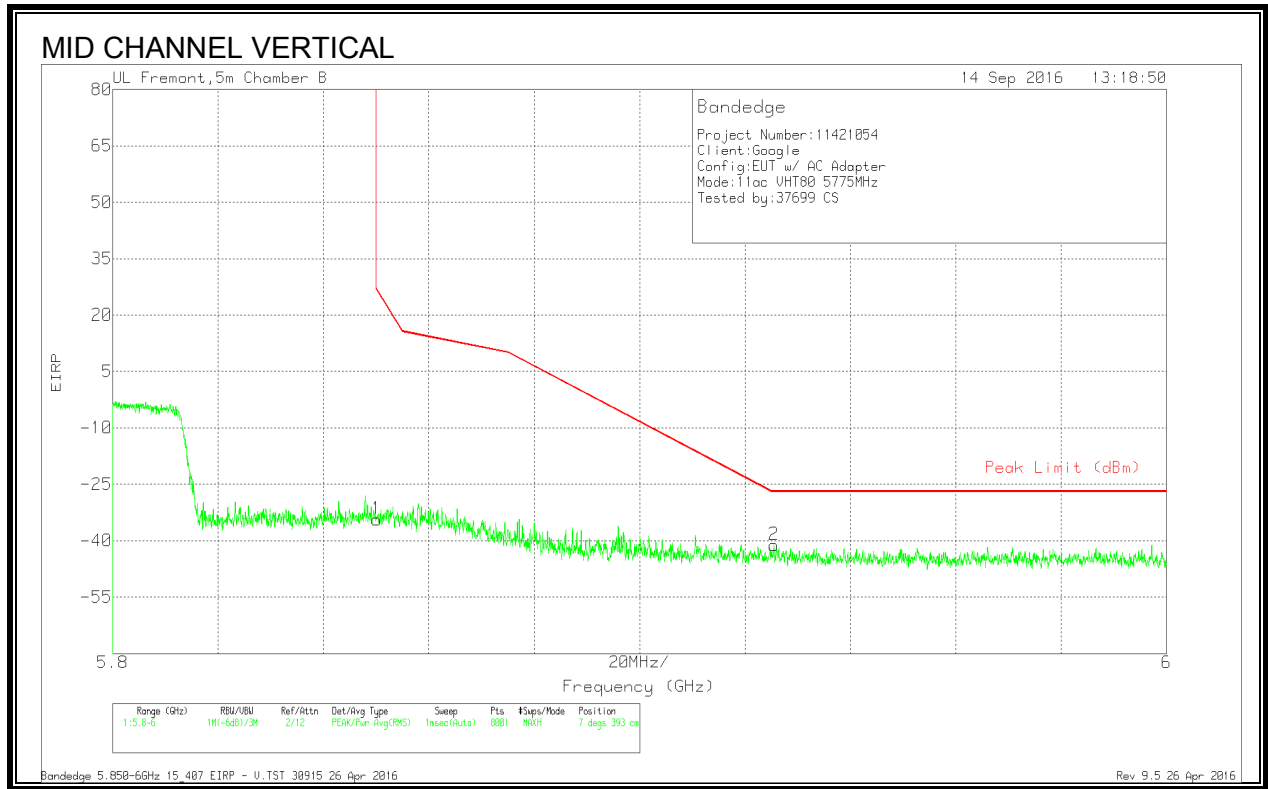
Pk - Peak detector

AUTHORIZED BANDEDGE (MID CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-53.61	PK	35.2	-21.6	11.8	-28.21	26.94	-55.15	246	307	H
2	5.947	-60.68	PK	35.2	-21.4	11.8	-35.08	-27	-8.08	246	307	H

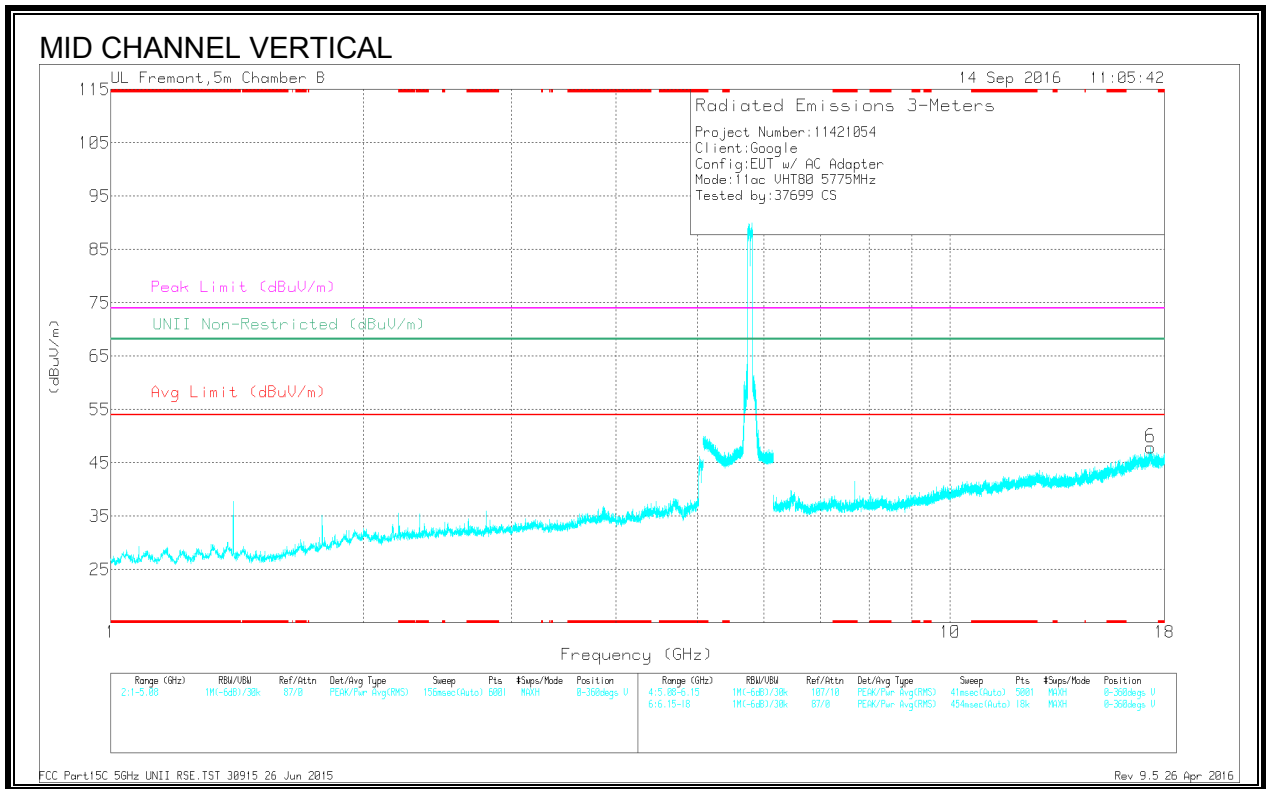
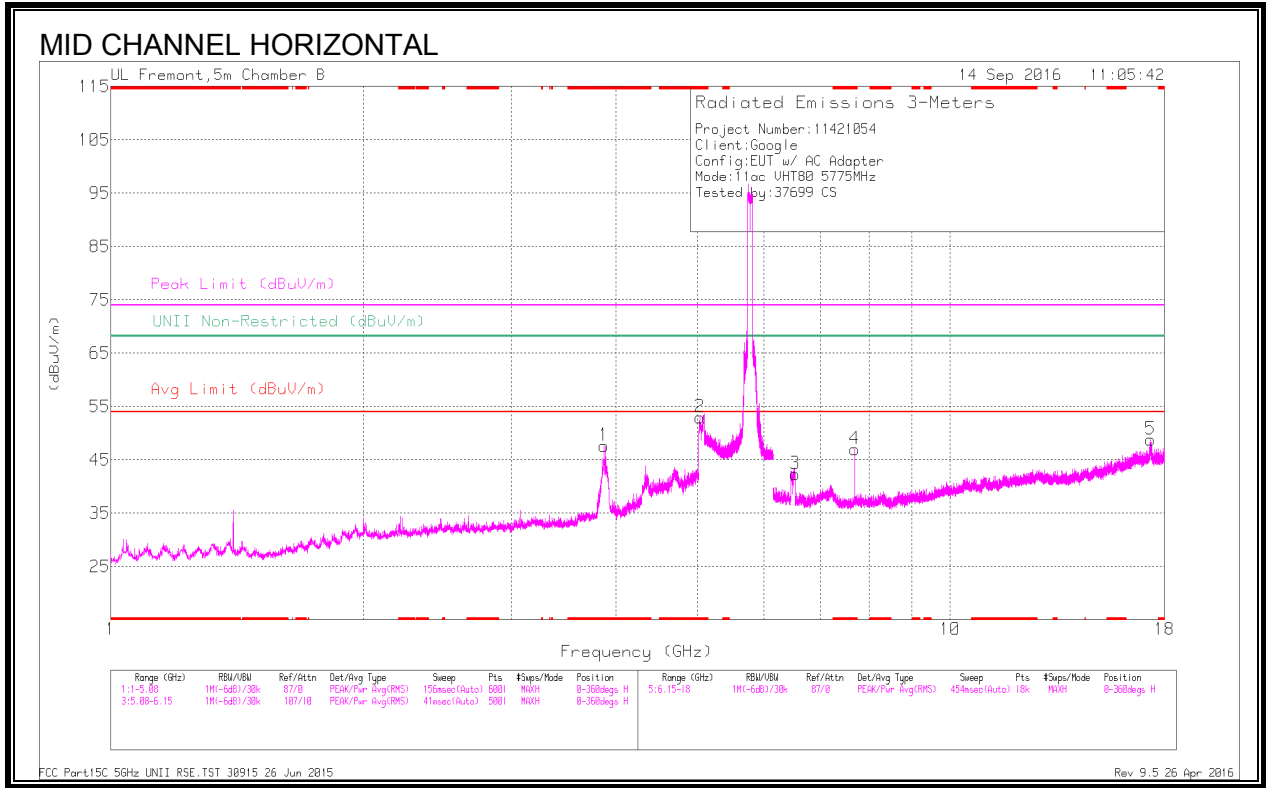
Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cb1/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-59.67	Pk	35.2	-21.6	11.8	-34.27	26.94	-61.21	7	393	V
2	5.926	-66.86	Pk	35.3	-21.4	11.8	-41.16	-27	-14.16	7	393	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS



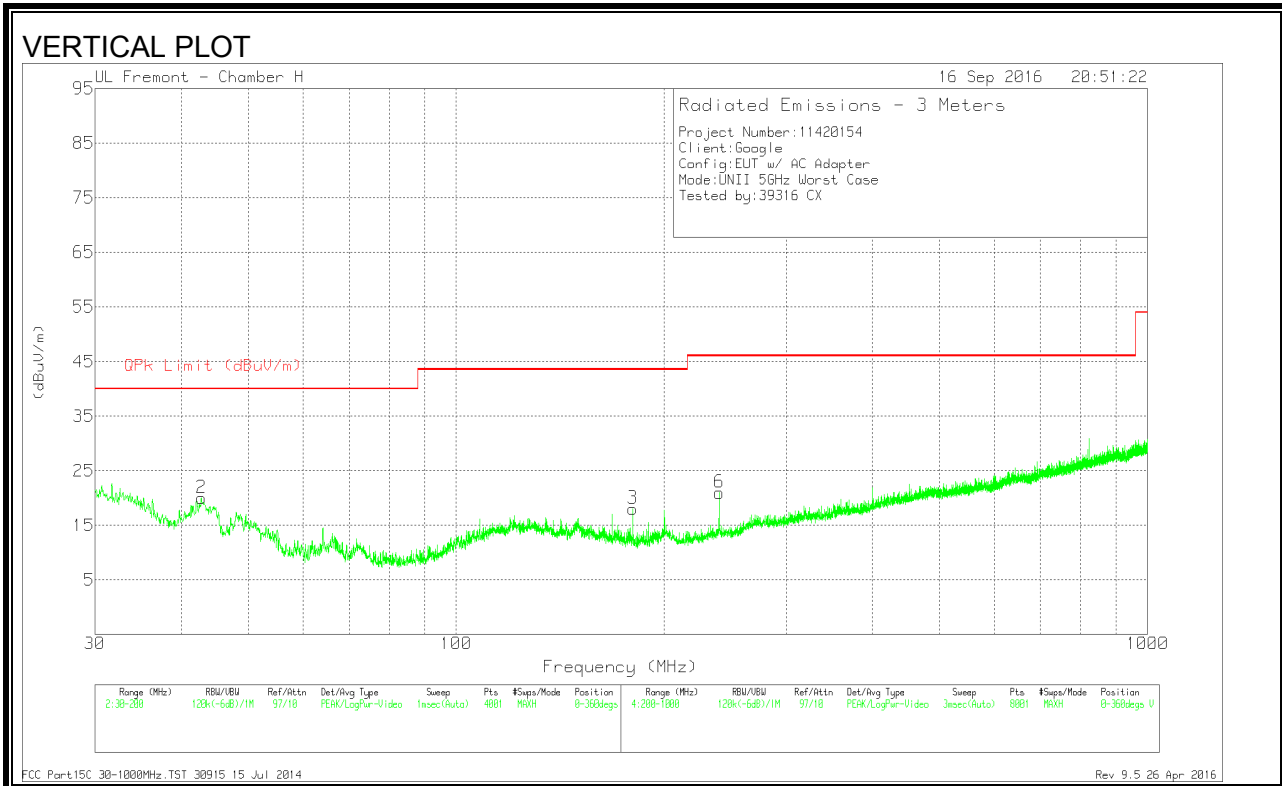
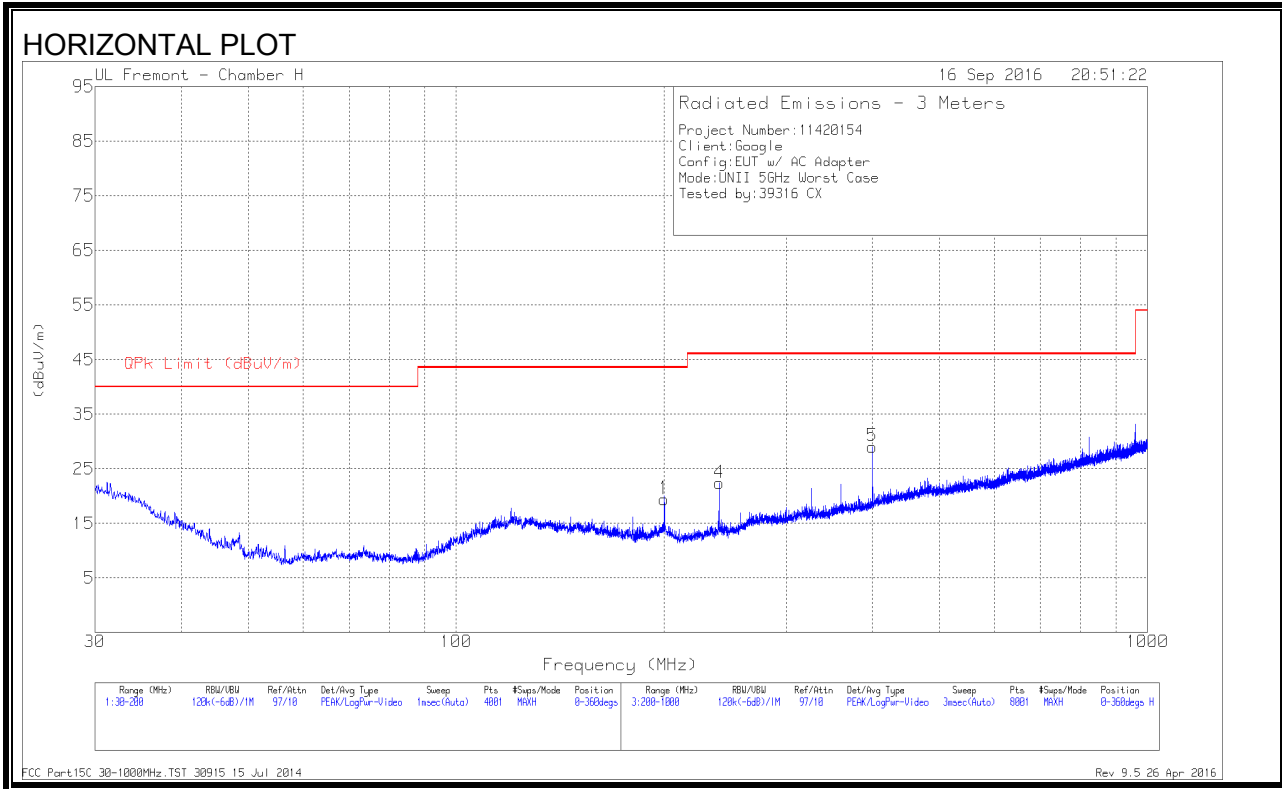
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.869	52.71	PK-U	33.3	-32.9	53.11	-	-	74	-20.89	-	-	243	340	H
	* 3.85	41.56	ADR	33.4	-33.2	41.76	54	-12.24	-	-	-	-	243	340	H
2	* 5.041	54.58	PK-U	34.1	-29.8	58.88	-	-	74	-15.12	-	-	274	107	H
	* 5.04	45.84	ADR	34.1	-29.8	50.14	54	-3.86	-	-	-	-	274	107	H
4	* 7.7	45	PK-U	35.7	-29.8	50.9	-	-	74	-23.1	-	-	181	331	H
	* 7.7	40.3	ADR	35.7	-29.8	46.2	54	-7.8	-	-	-	-	181	331	H
3	6.503	45.04	PK-U	35.6	-31.5	49.14	-	-	-	-	68.2	-19.06	242	106	H
5	17.308	34.71	PK-U	41.3	-23	53.01	-	-	-	-	68.2	-15.19	152	278	H
6	17.331	35.23	PK-U	41.3	-23.1	53.43	-	-	-	-	68.2	-14.77	251	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

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

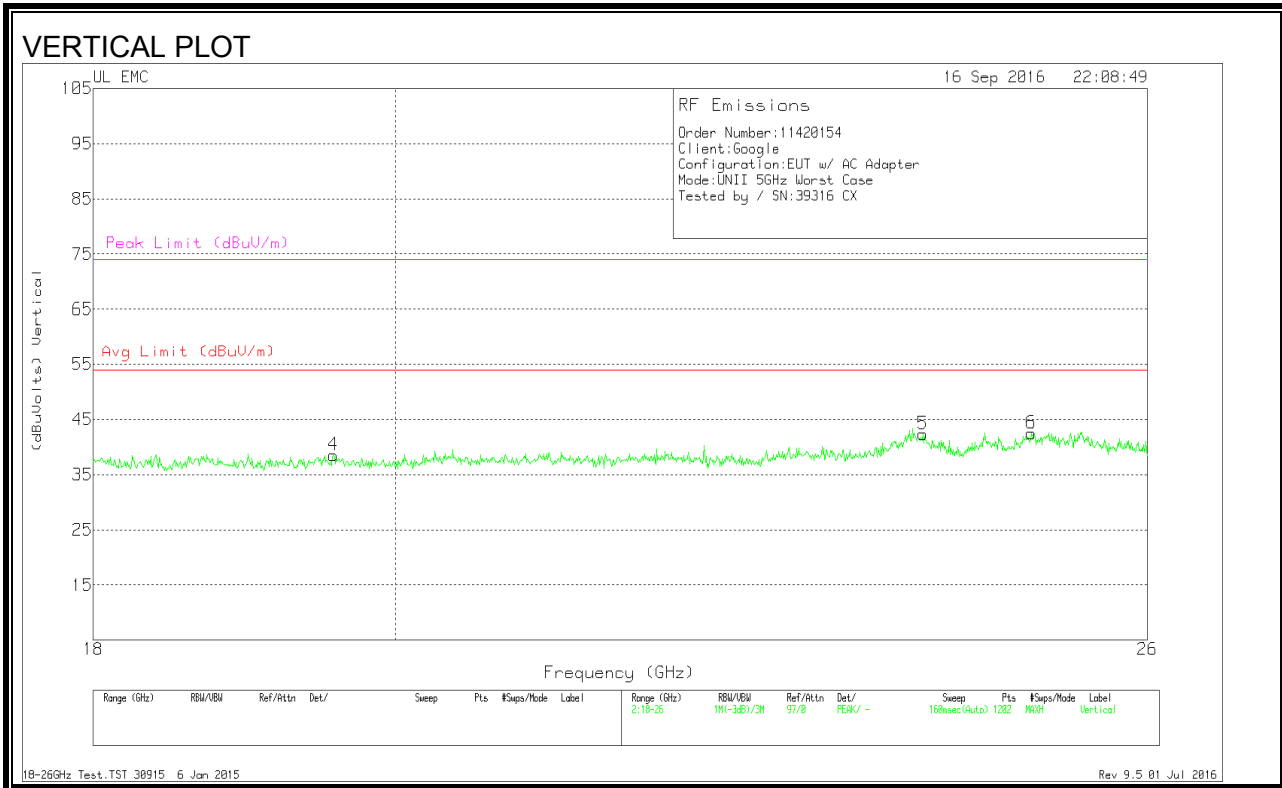
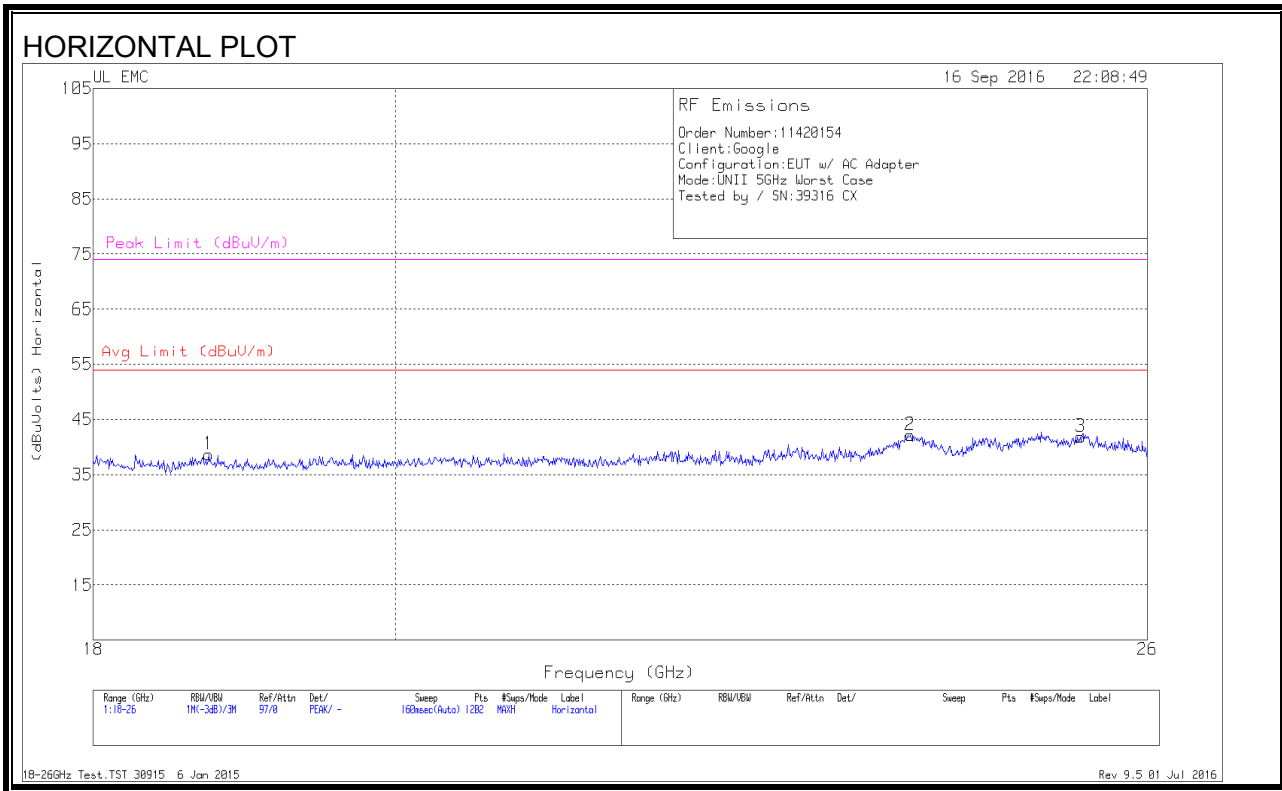


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T407 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 400	38.19	Pk	19.5	-28.6	29.09	46.02	-16.93	0-360	100	H
2	42.7925	35.5	Pk	15.7	-31.2	20	40	-20	0-360	100	V
3	180.025	32.97	Pk	15	-29.9	18.07	43.52	-25.45	0-360	100	V
1	200	33.13	Pk	16.1	-29.8	19.43	43.52	-24.09	0-360	199	H
4	240	36.27	Pk	15.5	-29.4	22.37	46.02	-23.65	0-360	100	H
6	240	34.88	Pk	15.5	-29.4	20.98	46.02	-25.04	0-360	101	V

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

9.3. SPURIOUS EMISSIONS 18 to 26 GHz (WORST-CASE CONFIGURATION)

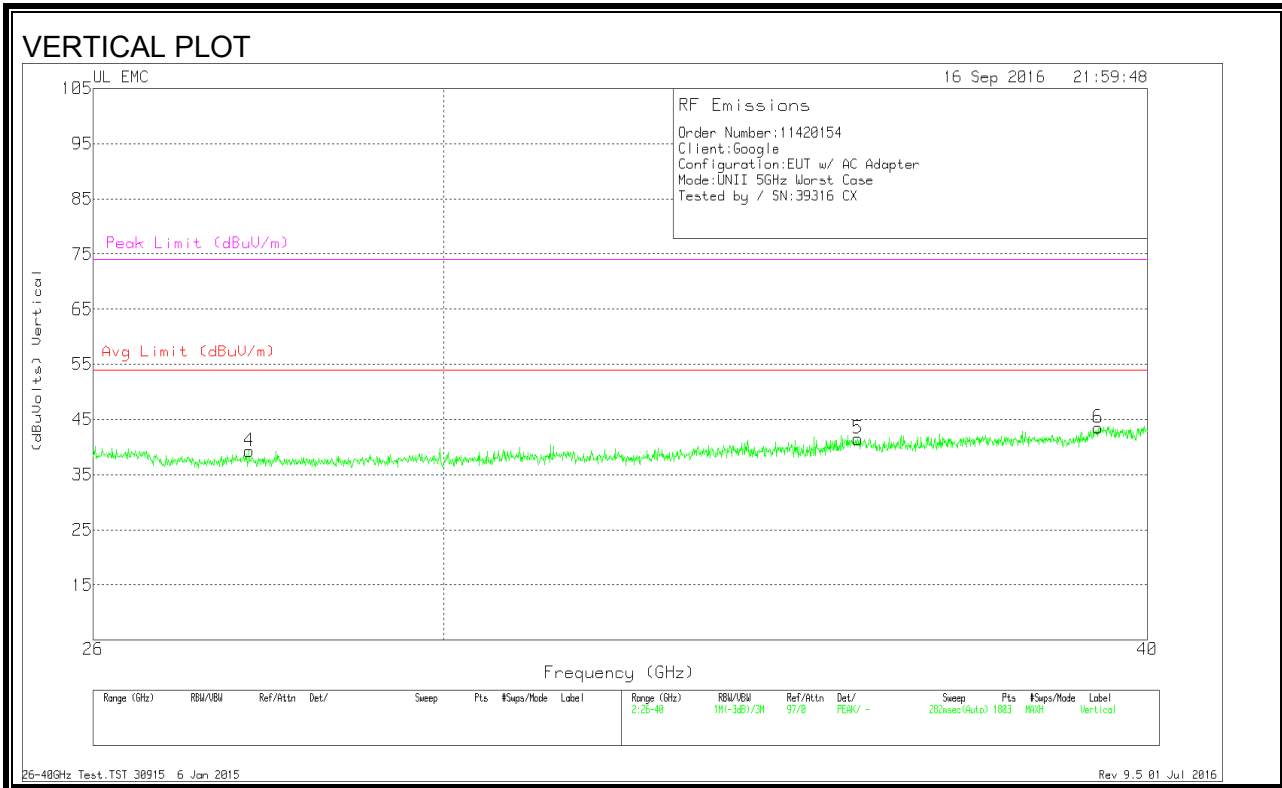
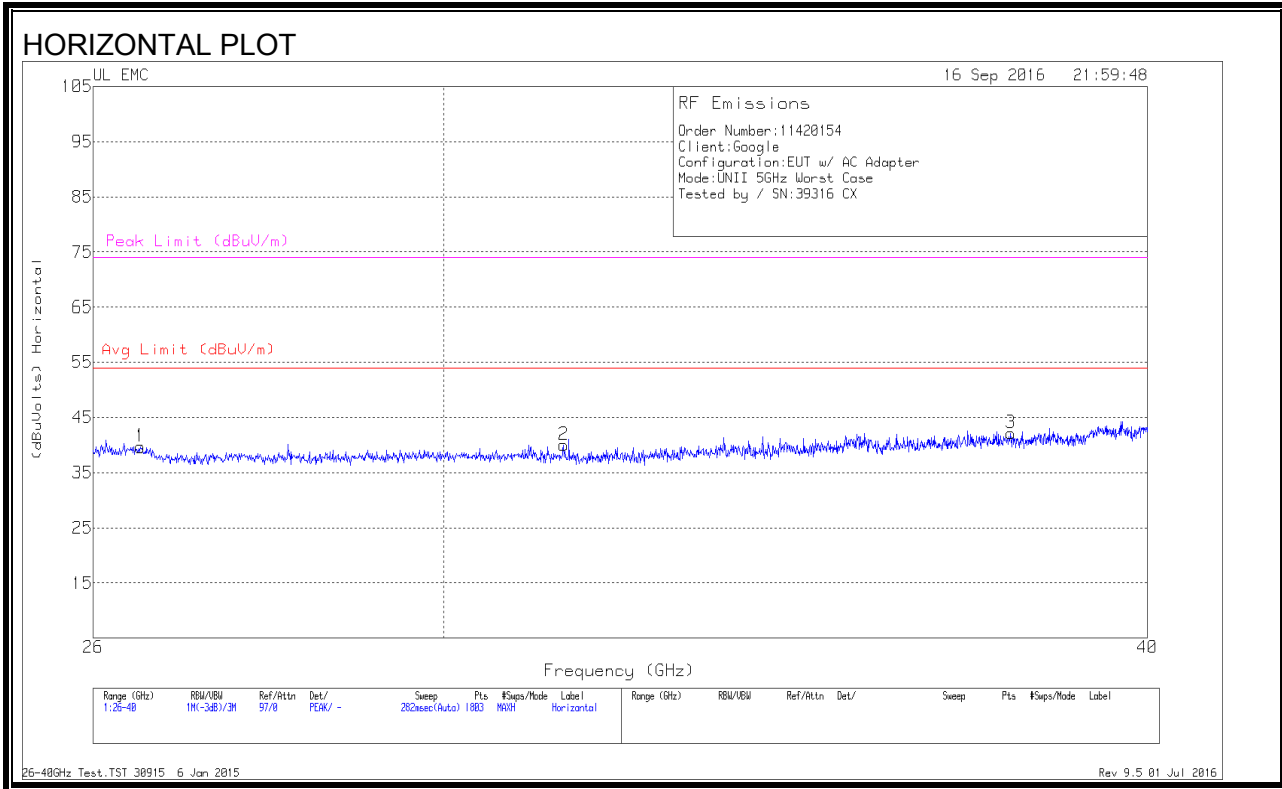


DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T449 (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	18.739	40.37	Pk	32.4	-24.6	-9.5	38.67	54	-15.33	74	-35.33
2	23.935	41.77	Pk	34	-24.1	-9.5	42.17	54	-11.83	74	-31.83
3	25.401	41.43	Pk	34.3	-24.4	-9.5	41.83	54	-12.17	74	-32.17
4	19.572	40.4	Pk	32.7	-25.1	-9.5	38.5	54	-15.5	74	-35.5
5	24.042	42.33	Pk	34	-24.5	-9.5	42.33	54	-11.67	74	-31.67
6	24.968	42	Pk	34.2	-24.2	-9.5	42.5	54	-11.5	74	-31.5

Pk - Peak detector

9.4. SPURIOUS EMISSIONS 26 to 40 GHz (WORST-CASE CONFIGURATION)



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T90 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	26.505	44.57	Pk	35.5	-30.9	-9.5	39.67	54	-14.33	74	-34.33
2	31.508	46.5	Pk	36.2	-33.2	-9.5	40	54	-14	74	-34
3	37.825	48.77	Pk	37	-34.1	-9.5	42.17	54	-11.83	74	-31.83
4	27.709	44.73	Pk	35.8	-31.7	-9.5	39.33	54	-14.67	74	-34.67
5	35.533	46.9	Pk	37.8	-33.7	-9.5	41.5	54	-12.5	74	-32.5
6	39.2	47.3	Pk	38.3	-32.6	-9.5	43.5	54	-10.5	74	-30.5

Pk - Peak detector

10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	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.

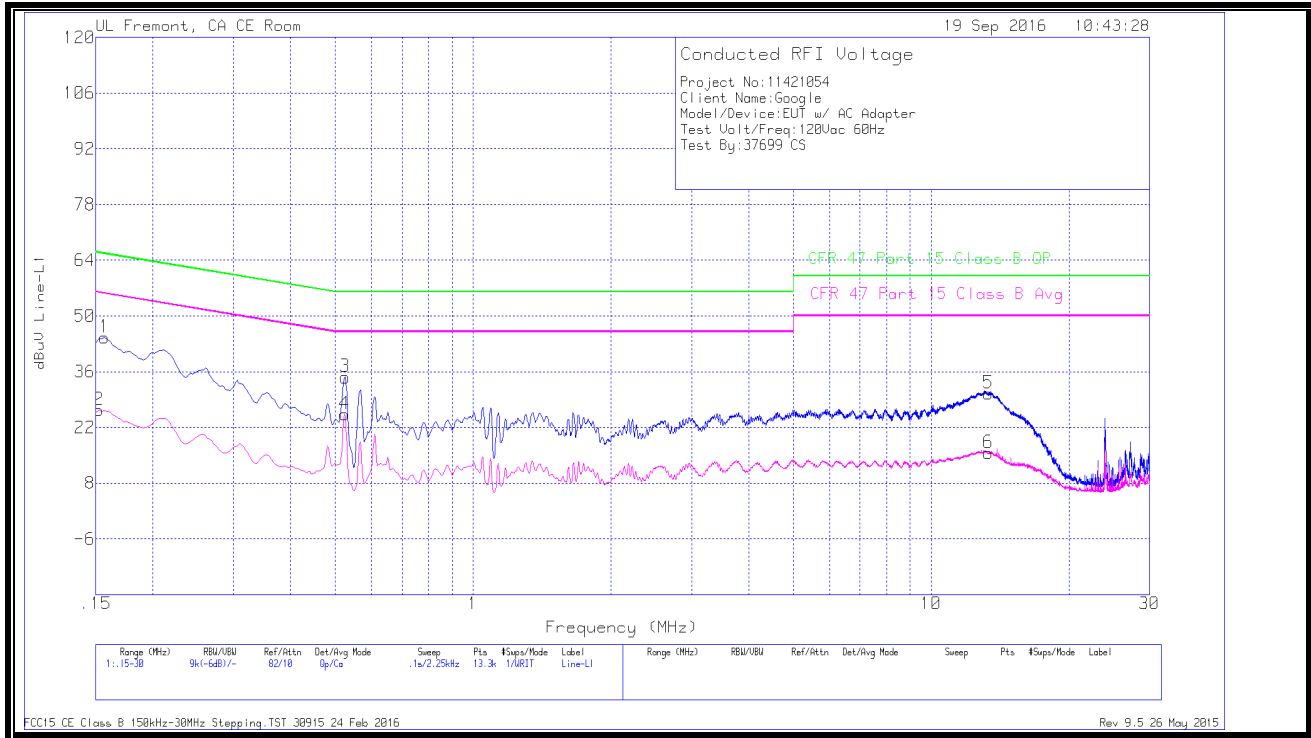
TEST PROCEDURE

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 NEUTRAL and HOT lines.

LINE 1 RESULTS

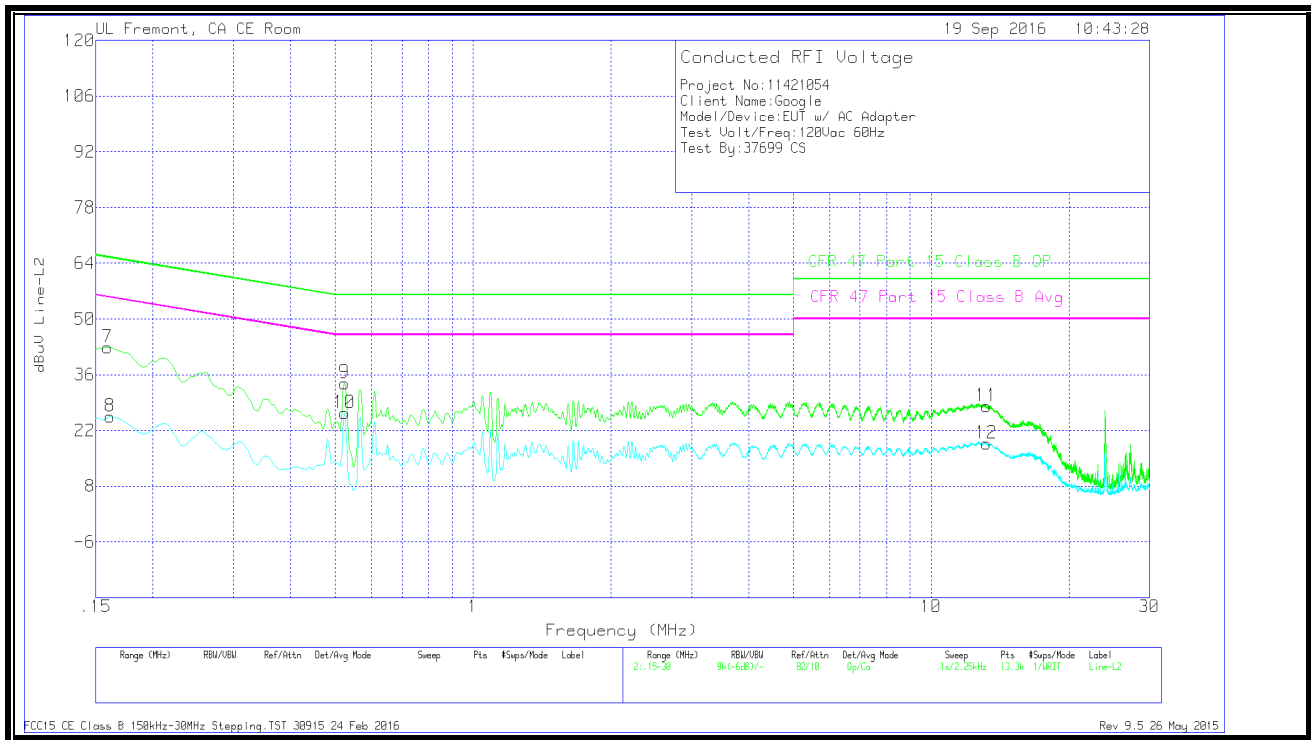


WORST EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables 1&3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.15675	34.44	Qp	0	0	10.1	44.54	65.63	-21.09	-	-
2	.15225	16.23	Ca	.1	0	10.1	26.43	-	-	55.88	-29.45
3	.52575	24.52	Qp	0	0	10.1	34.62	56	-21.38	-	-
4	.5235	15.29	Ca	0	0	10.1	25.39	-	-	46	-20.61
5	13.34175	20.04	Qp	.1	.2	10.2	30.54	60	-29.46	-	-
6	13.3395	5.14	Ca	.1	.2	10.2	15.64	-	-	50	-34.36

Qp - Quasi-Peak detector
 Ca - CISPR average detection

LINE 2 RESULTS



WORST EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables 2&3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
7	.159	32.79	Qp	0	0	10.1	42.89	65.52	-22.63	-	-
8	.16125	15.39	Ca	0	0	10.1	25.49	-	-	55.4	-29.91
9	.5235	23.82	Qp	0	0	10.1	33.92	56	-22.08	-	-
10	.5235	16.21	Ca	0	0	10.1	26.31	-	-	46	-19.69
11	13.22475	17.57	Qp	.1	.2	10.2	28.07	60	-31.93	-	-
12	13.22475	8.18	Ca	.1	.2	10.2	18.68	-	-	50	-31.32

Qp - Quasi-Peak detector
 Ca - CISPR average detection