



**FCC 47 CFR PART 15 SUBPART C
INDUSTRY CANADA RSS-210 ISSUE 8**

CERTIFICATION TEST REPORT

FOR

HANDHELD COMPUTING DEVICE

MODEL NUMBER: 1572

FCC ID: C3K1572

IC: 3048A-1572

REPORT NUMBER: 13U16702-1A

ISSUE DATE: FEBRUARY 12, 2014

Prepared for

**MICROSOFT CORPORATION
ONE MICROSOFT WAY
REDMOND, WA 98052, U.S.A.**

Prepared by

**UL VERIFICATION SERVICES INC.
47173 BENICIA STREET
FREMONT, CA 94538, U.S.A.
TEL: (510) 771-1000
FAX: (510) 661-0888**



NVLAP LAB CODE 200065-0

Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
--	1/30/14	Initial Issue	T. LEE
A	2/12/14	Updated section 2 with KDB 662911 referance and section 6 with above 18GHz test equipement.	D. GARCIA

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: MICROSOFT CORPORATION
ONE MICROSOFT WAY
REDMOND, WA 98052, U.S.A.

EUT DESCRIPTION: HANDHELD COMPUTING DEVICE WITH 802.11 A/B/G/N WLAN
AND BLUETOOTH RADIOS

MODEL: 1572

SERIAL NUMBER: 008079434852

DATE TESTED: JANUARY 8, 2014 to JANUARY 30, 2014

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Pass
INDUSTRY CANADA RSS-210 Issue 8 Annex 8	Pass
INDUSTRY CANADA RSS-GEN Issue 3	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
UL Verification Services Inc. By:

Tested By:



TIM LEE
WiSE PROGRAM MANAGER
UL Verification Services Inc.

JOE VANG
EMC ENGINEER
UL Verification Services Inc.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, FCC KDB 662911 v02r01, ANSI C63.10-2009, RSS-GEN Issue 3, and RSS-210 Issue 8.

3. FACILITIES AND ACCREDITATION

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

47173 Benicia Street	47266 Benicia Street
<input checked="" type="checkbox"/> Chamber A	<input type="checkbox"/> Chamber D
<input type="checkbox"/> Chamber B	<input checked="" type="checkbox"/> Chamber E
<input type="checkbox"/> Chamber C	<input type="checkbox"/> Chamber F

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:

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

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	3.52 dB
Radiated Disturbance, 30 to 1000 MHz	4.94 dB

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

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a handheld computing device with 802.11 a/b/g/n WLAN and Bluetooth radios.

5.2. MAXIMUM OUTPUT POWER

The measured average power values were within ± 0.5 dB of the original values. Refer to original report number "13U15414-1A" for exact output power values and for all antenna port results.

5.3. DESCRIPTION OF CLASS II PERMISSIVE CHANGE

The change filed under this application has the following changes.

- The reference oscillator type change from TXCO to simple Crystal, with the reference frequency stays the same and the new part pin for pin compatible with original.
- New PCB Layout with Different PCB stack up

5.4. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an PIFA antenna, with a maximum gain of 3.1 dBi and 2.6 dBi in the 2.4 GHz band and 2.2 dBi and 3.9 dBi in the 5 GHz band.

5.5. SOFTWARE AND FIRMWARE

The EUT driver software installed during testing was Window RT 8.1 Preview Build 943

The test utility software used during testing was Laptool 189.1.0.9.0\ WIFI Tool.exe

5.6. WORST-CASE CONFIGURATION AND MODE

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

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

Based on the baseline scan, the worst-case data rates were:

802.11b mode: 1 Mbps
802.11g mode: 6 Mbps
802.11a mode: 6 Mbps
802.11n HT20mode: MCS0
802.11n HT40mode: MCS0

Radiated emissions for EUT with antenna was performed and passed; therefore, antenna port spurious was not performed.

5.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
USB Ethernet Adaptor	CISCO	USB 300M	CU90MC02233	DoC
Laptop	Lenovo	L420	7854CT0	DoC
AC Adaptor (laptop)	Lenovo	92P1156	111S92P1156ZDXN2	N/A

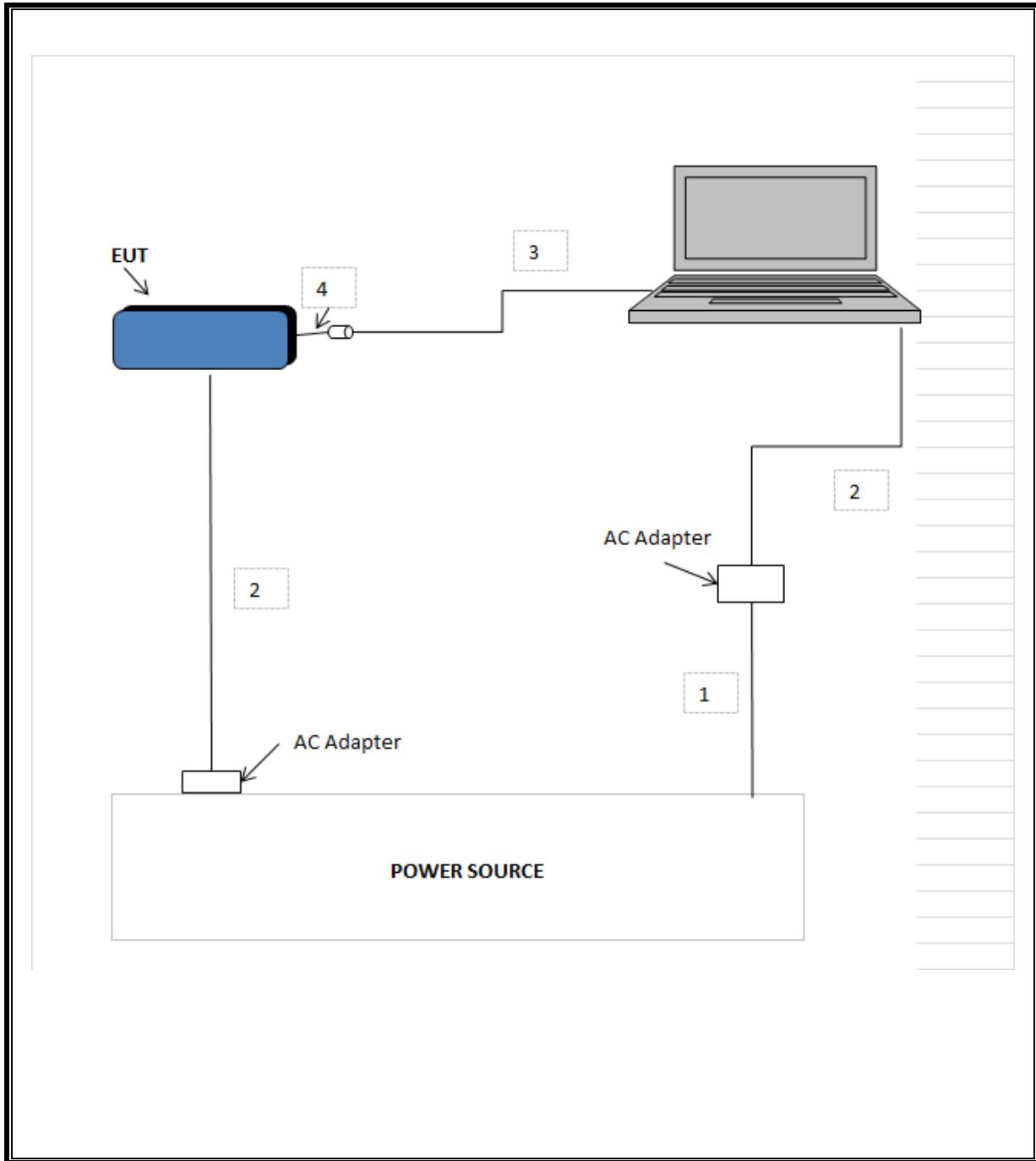
I/O CABLES

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC	1	AC	Unshielded	1.8	AC adapter
2	USB	1	USB	Unshielded	0.1	USB to Ethernet adapter
3	DC	1	DC	Unshielded	1.8	
4	Ethernet	1	RJ 45	Unshielded	0.6	Connects to USB adapter

TEST SETUP

The EUT is a standalone wireless handheld computing device. Test software exercised the wireless module installed within the device under test.

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

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

Test Equipment List				
Description	Manufacturer	Model	Asset	Cal Date
Single Channel PK Power Meter	Agilent	N1911A	F00022	4/3/2013
Wideband Power Sensor, 30MHz video bandwidth	Agilent	N1921A	F00358	10/1/2013
Spectrum Analyzer, 44 GHz	Agilent	E4446A	C00986	4/1/2013
Antenna, Horn, 18 GHz	ETS Lindgren	3117	C01022	2/21/2013
Antenna, Biconolog, 30MHz-1 GHz	Sunol Sciences	JB1	C01016	8/22/2013
High Pass Filter	Micro-Tronics	HPM17543	F00224	6/26/2013
Low Pass Filter	Micro-Tronics	LPS17541	F00219	6/26/2013
High Pass Filter	Micro-Tronics	HPS17542	F00222	6/26/2013
RF PreAmplifier, 1-18GHz	Miteq	TBD	F00350	6/26/2013
Preamplifier, 1300 MHz	Agilent	8447D	C00885	6/26/2013
Spectrum Analyzer, 40 GHz	Agilent	8564E	C00951	7/29/2013
PreAmplifier, 1-26.5GHz	Agilent	8449B	F00167	3/23/2013
Antenna, Horn, 40 GHz	ARA	MWH-2640/B	C00981	6/28/2013
Antenna, Horn, 26.5 GHz	ARA	MWH-1826/B	C00980	11/26/2013
Preamplifier, 40 GHz	Miteq	NSP4000-SP2	C00990	8/20/2013

7. ON TIME, DUTY CYCLE AND MEASUREMENT METHODS

LIMITS

None; for reporting purposes only.

PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method.

7.1. ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
2.4GHz Band						
802.11b	1.000	1.000	1.000	100.00%	0.00	0.010
802.11g	1.000	1.000	1.000	100.00%	0.00	0.010
802.11n HT20	0.285	0.289	0.985	98.48%	0.00	0.010
802.11n HT40	0.299	0.304	0.983	98.32%	0.00	0.010
5GHz Band						
802.11a	1.626	1.632	0.996	99.63%	0.00	0.010
802.11n HT20	0.285	0.289	0.985	98.48%	0.00	0.010
802.11n HT40	0.299	0.304	0.984	98.36%	0.00	0.010

7.2. MEASUREMENT METHODS

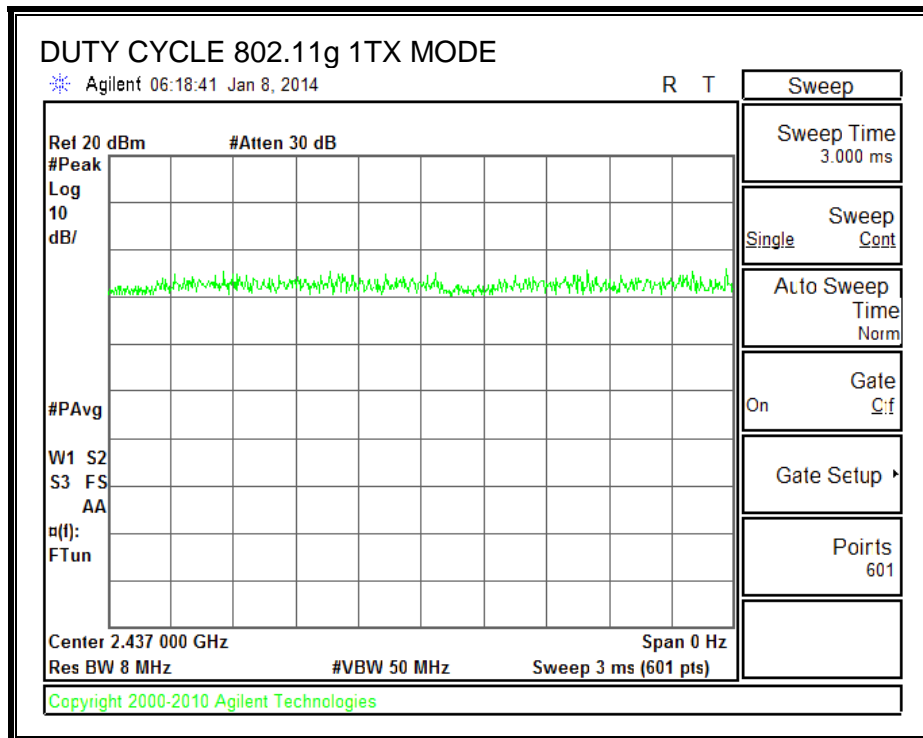
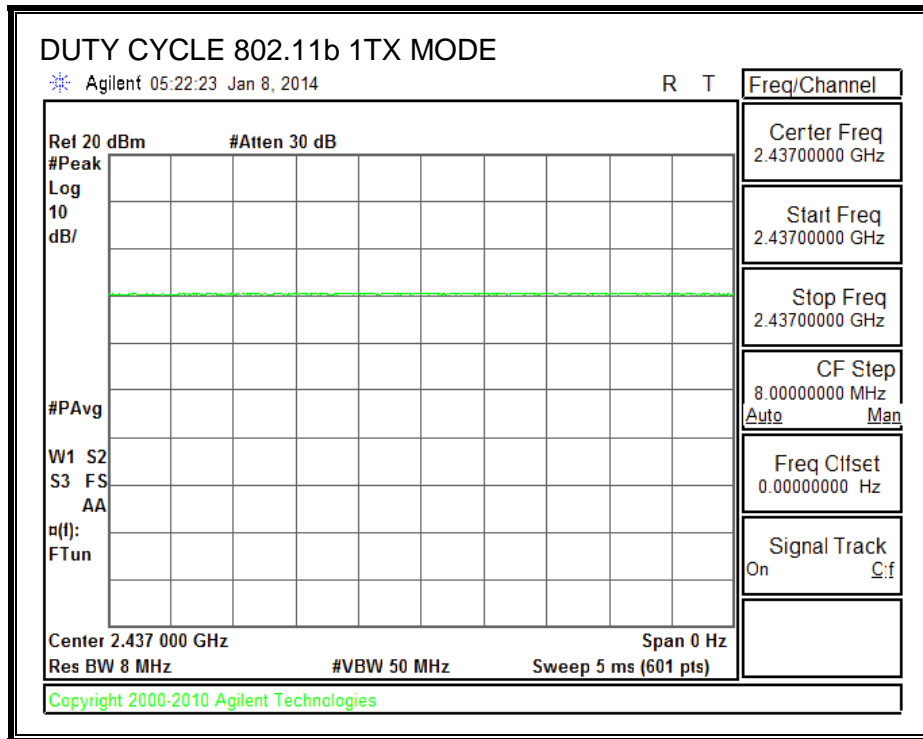
Out-of-band emissions in non-restricted bands: KDB 558074 D01 v03r01, Section 11.0.

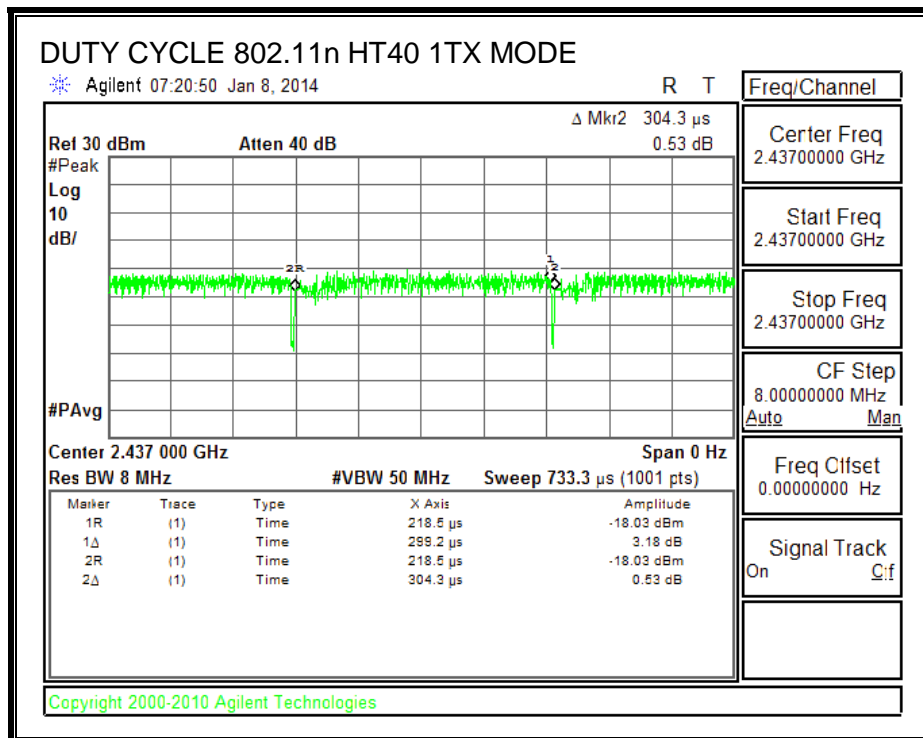
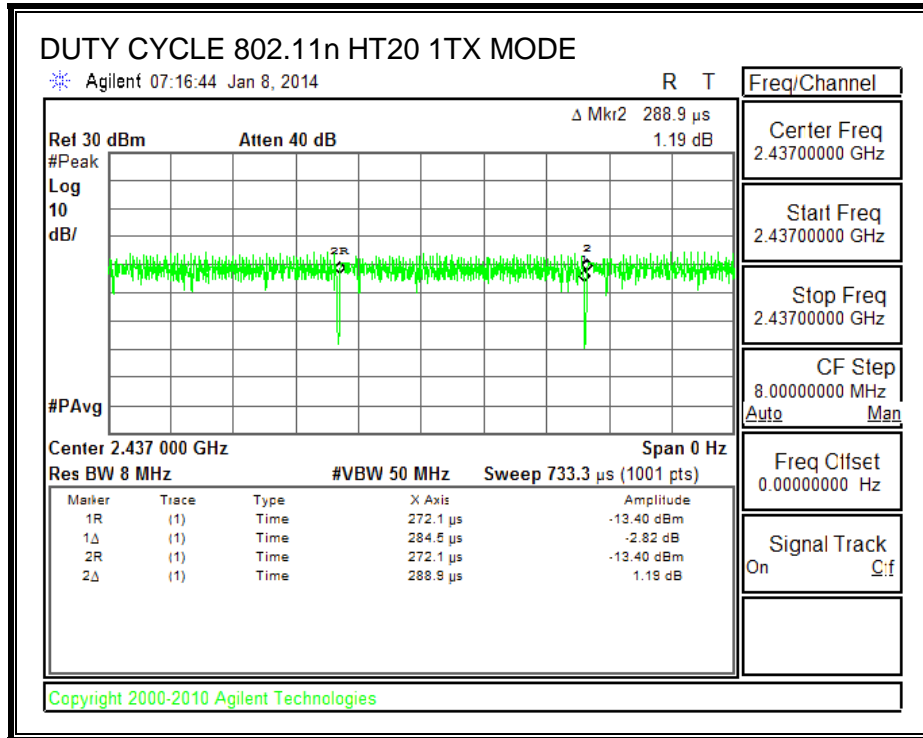
Out-of-band emissions in restricted bands: KDB 558074 D01 v03r01, Section 12.1.

Band-edge: KDB 558074 D01 v03r01, Section 13.2.

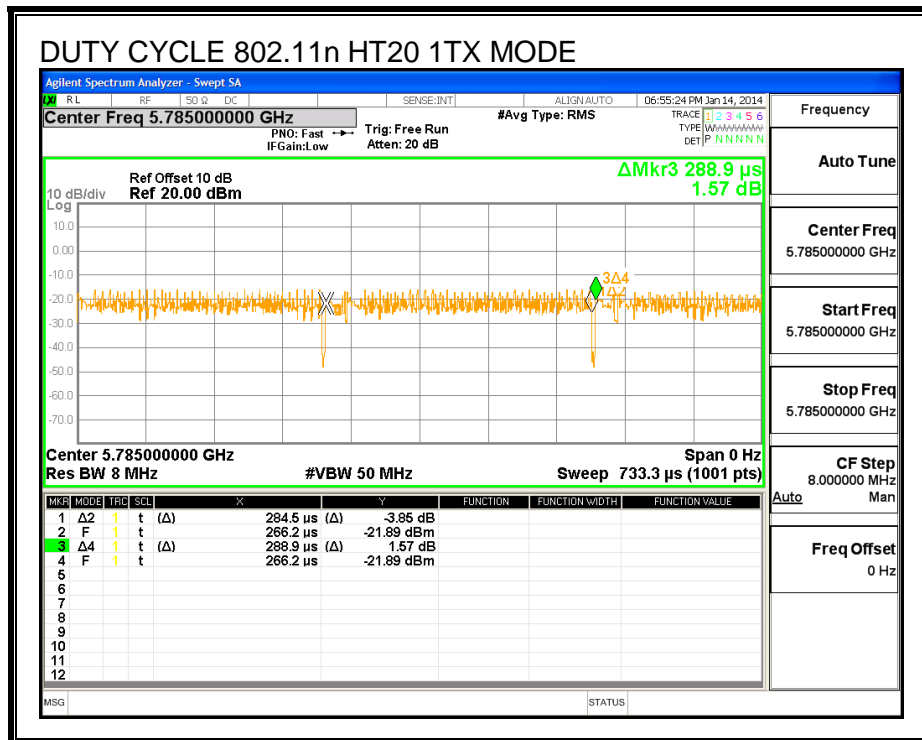
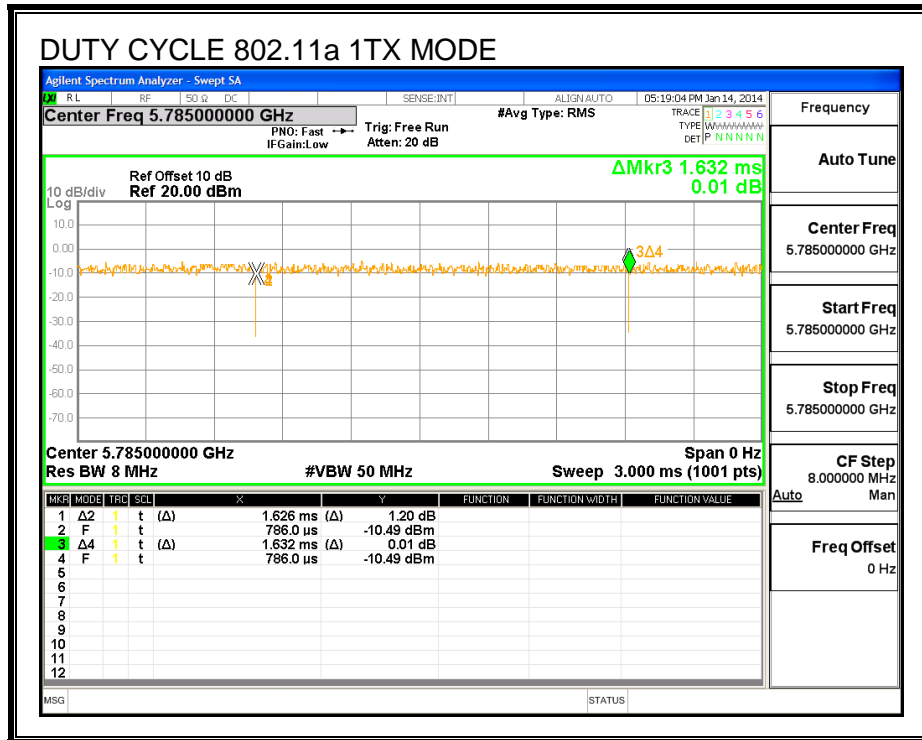
7.3. DUTY CYCLE PLOTS

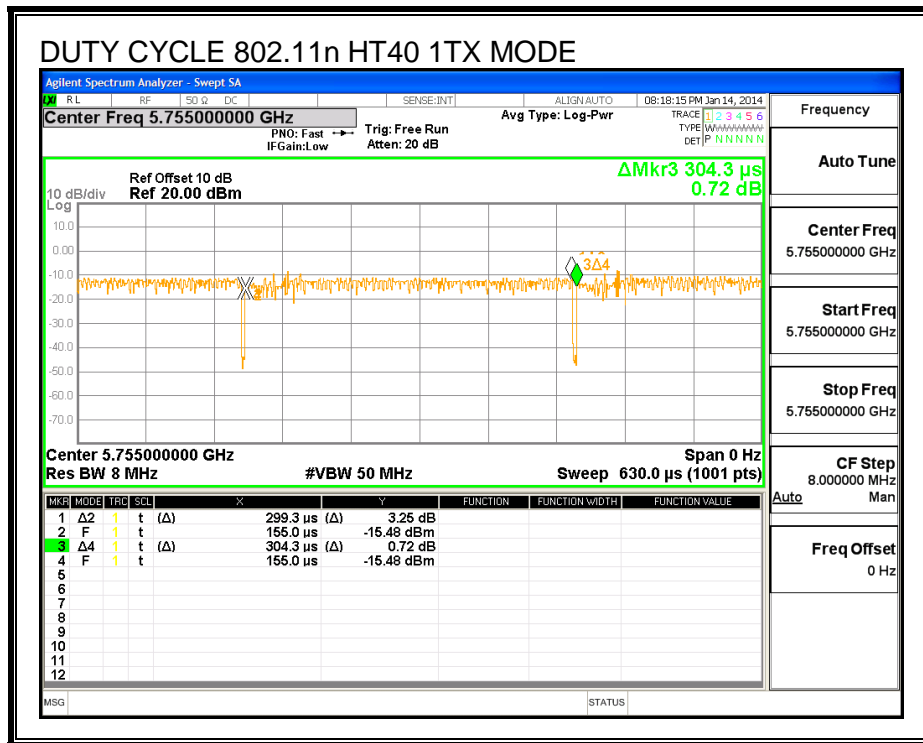
2.4 GHz BAND





5 GHz BANDS





8. RADIATED TEST RESULTS

8.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-210 Clause 2.6 (Transmitter)

IC RSS-GEN Clause 6 (Receiver)

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. The antenna to EUT distance is 3 meters.

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 1 MHz for peak measurements and as applicable for average measurements.

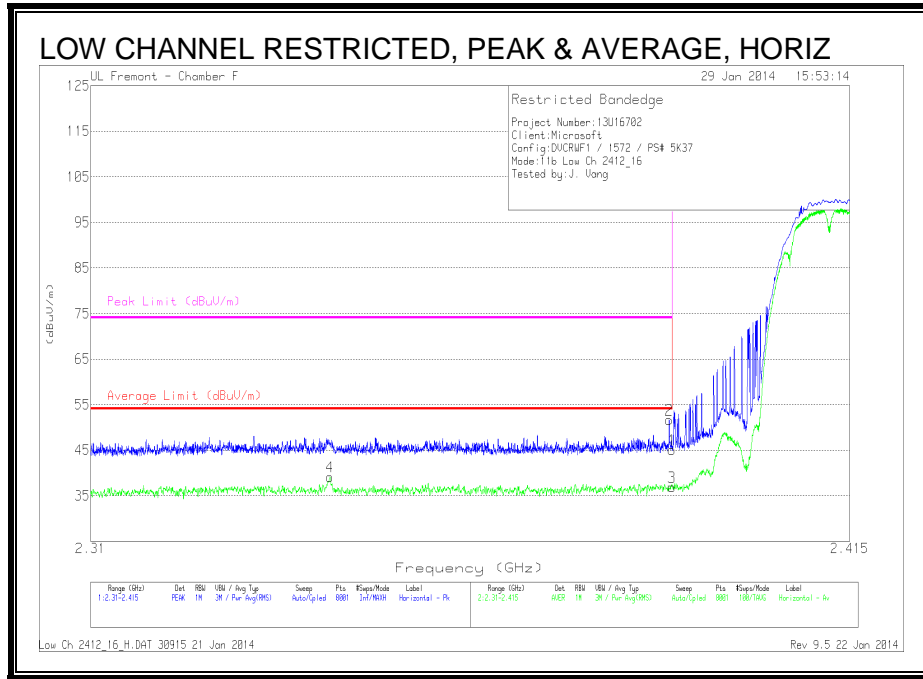
The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

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.

8.2. TRANSMITTER ABOVE 1 GHz

8.3. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND

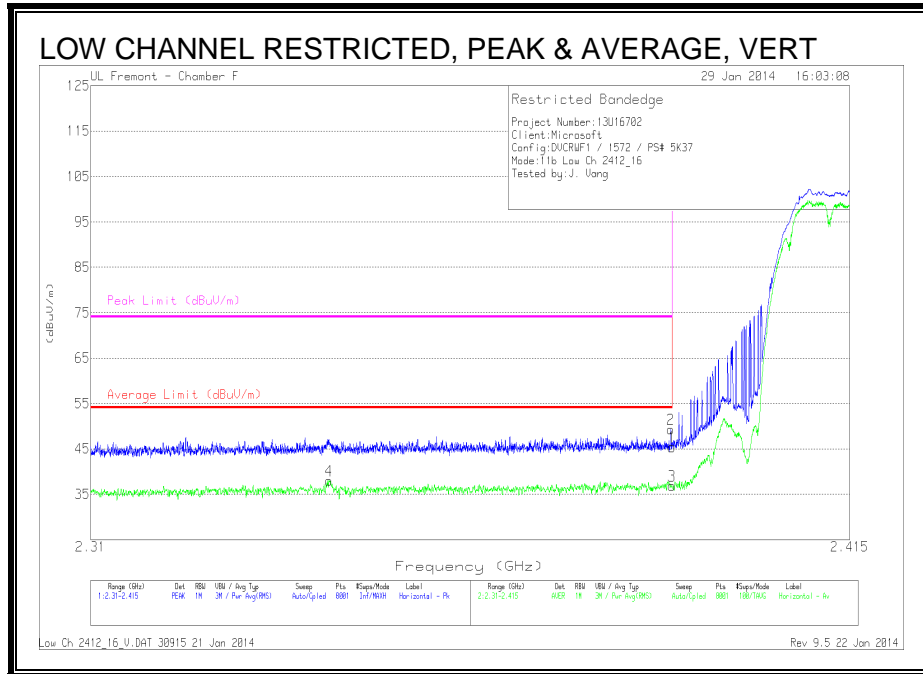
RESTRICTED BANDEDGE (LOW CHANNEL)



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	2.39	36.78	PK	32.1	-23.8	45.08	-	-	74	-28.92	231	309	H
2	2.39	43.34	PK	32.1	-23.8	51.64	-	-	74	-22.36	231	309	H
3	2.39	28.58	RMS	32.1	-23.8	36.88	54	-17.12	-	-	231	309	H
4	2.343	30.75	RMS	32	-23.6	39.15	54	-14.85	-	-	231	309	H

PK - Peak detector

RMS - RMS detection

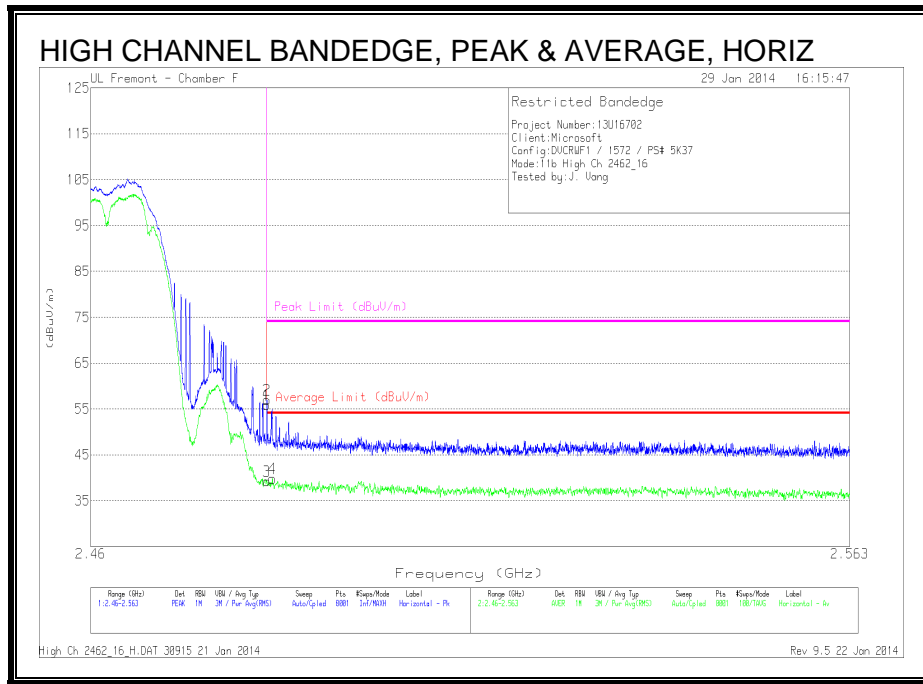


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.39	37.12	PK	32.1	-23.8	45.42	-	-	74	-28.58	271	337	V
2	2.39	41.05	PK	32.1	-23.8	49.35	-	-	74	-24.65	271	337	V
3	2.39	28.57	RMS	32.1	-23.8	36.87	54	-17.13	-	-	271	337	V
4	2.342	29.62	RMS	32	-23.6	38.02	54	-15.98	-	-	271	337	V

PK - Peak detector

RMS - RMS detection

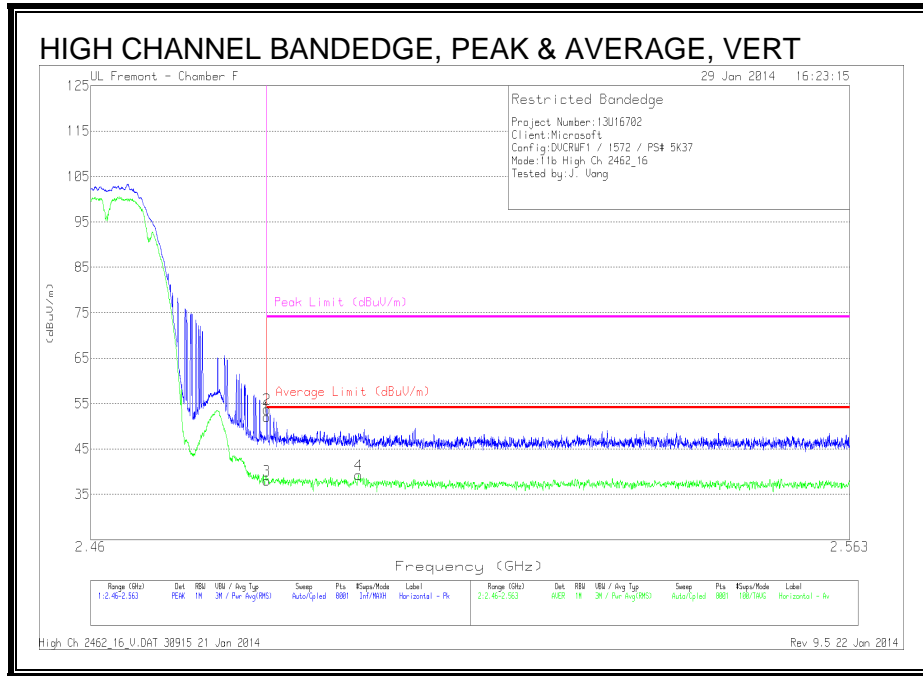
AUTHORIZED BANDEDGE (HIGH CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	46.46	PK	32.4	-23	55.86	-	-	74	-18.14	240	202	H
2	2.484	47.61	PK	32.4	-23	57.01	-	-	74	-16.99	240	202	H
3	2.484	29.85	RMS	32.4	-23	39.25	54	-14.75	-	-	240	202	H
4	2.484	30.31	RMS	32.4	-22.9	39.81	54	-14.19	-	-	240	202	H

PK - Peak detector

RMS - RMS detection



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	2.484	42.61	PK	32.4	-23	52.01	-	-	74	-21.99	97	243	V
2	2.484	44.34	PK	32.4	-23	53.74	-	-	74	-20.26	97	243	V
3	2.484	28.62	RMS	32.4	-23	38.02	54	-15.98	-	-	97	243	V
4	2.496	29.76	RMS	32.5	-23	39.26	54	-14.74	-	-	97	243	V

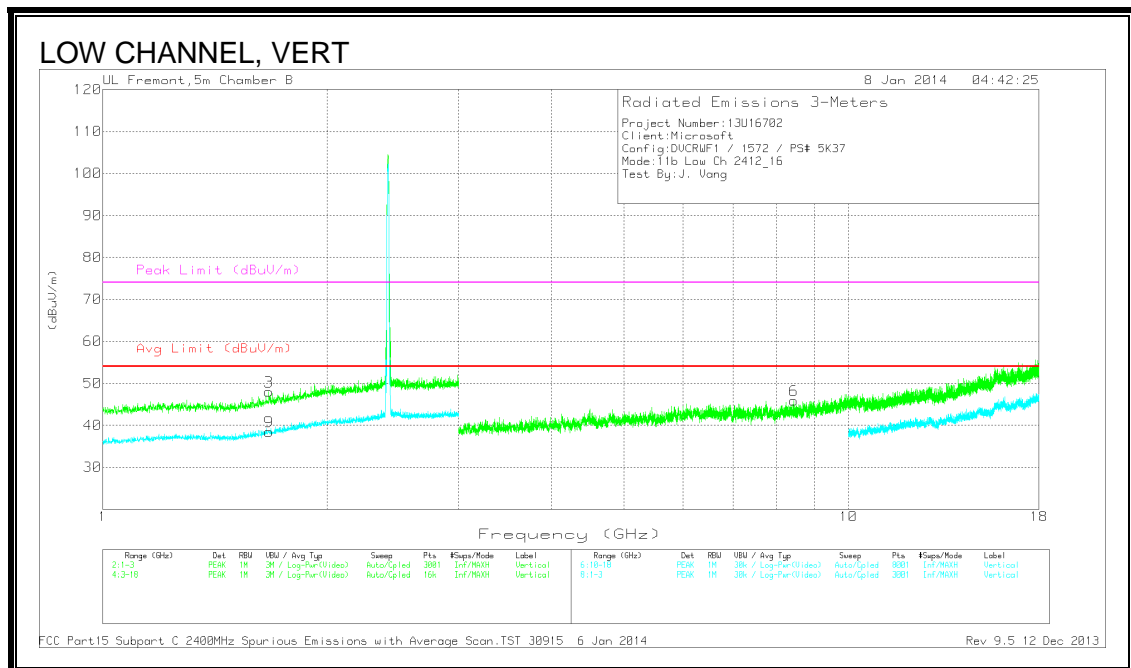
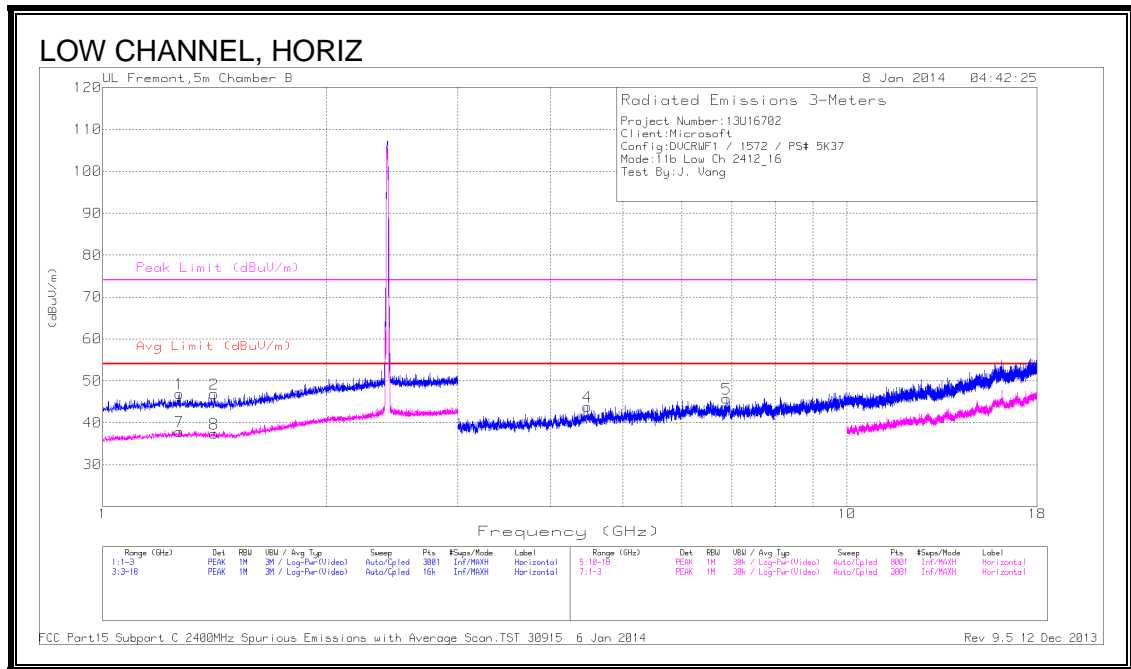
PK - Peak detector

RMS - RMS detection

8.4. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



HARMONICS AND SPURIOUS EMISSIONS

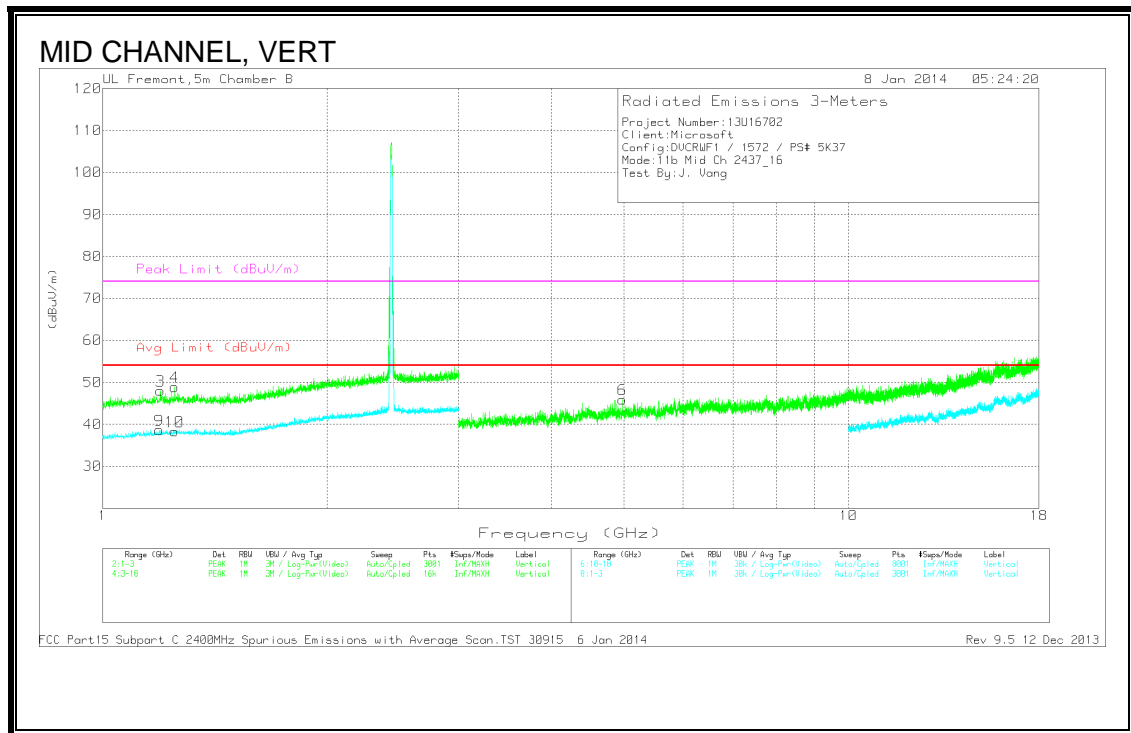
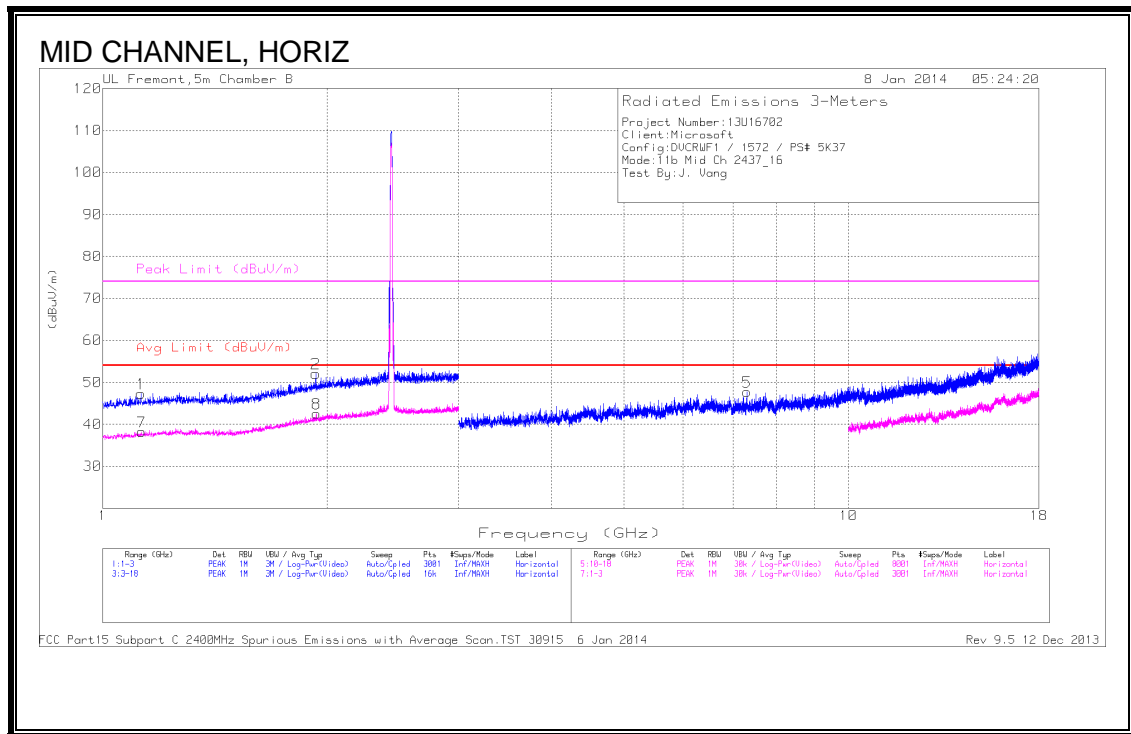
LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.267	42.92	PK	28.6	-24.6	46.92	54	-7.08	74	-27.08	0-360	202	H
7	1.267	33.87	Avg	28.6	-24.6	37.87	54	-16.13	-	-	0-360	202	H
2	1.411	43.08	PK	28.3	-24.5	46.88	54	-7.12	74	-27.12	0-360	102	H
8	1.411	33.56	Avg	28.3	-24.5	37.36	54	-16.64	-	-	0-360	99	H
3	1.67	42.24	PK	29.5	-23.7	48.04	54	-5.96	74	-25.96	0-360	99	V
9	1.671	32.69	Avg	29.5	-23.7	38.49	54	-15.51	-	-	0-360	99	V
4	4.477	38.46	PK	34.5	-29.1	43.86	54	-10.14	74	-30.14	0-360	99	H
5	6.89	37.35	PK	35.9	-27.5	45.75	54	-8.25	74	-28.25	0-360	201	H
6	8.447	35.34	PK	36.2	-25.6	45.94	54	-8.06	74	-28.06	0-360	99	V

PK - Peak detector

Avg - Video bandwidth < Resolution bandwidth

MID CHANNEL



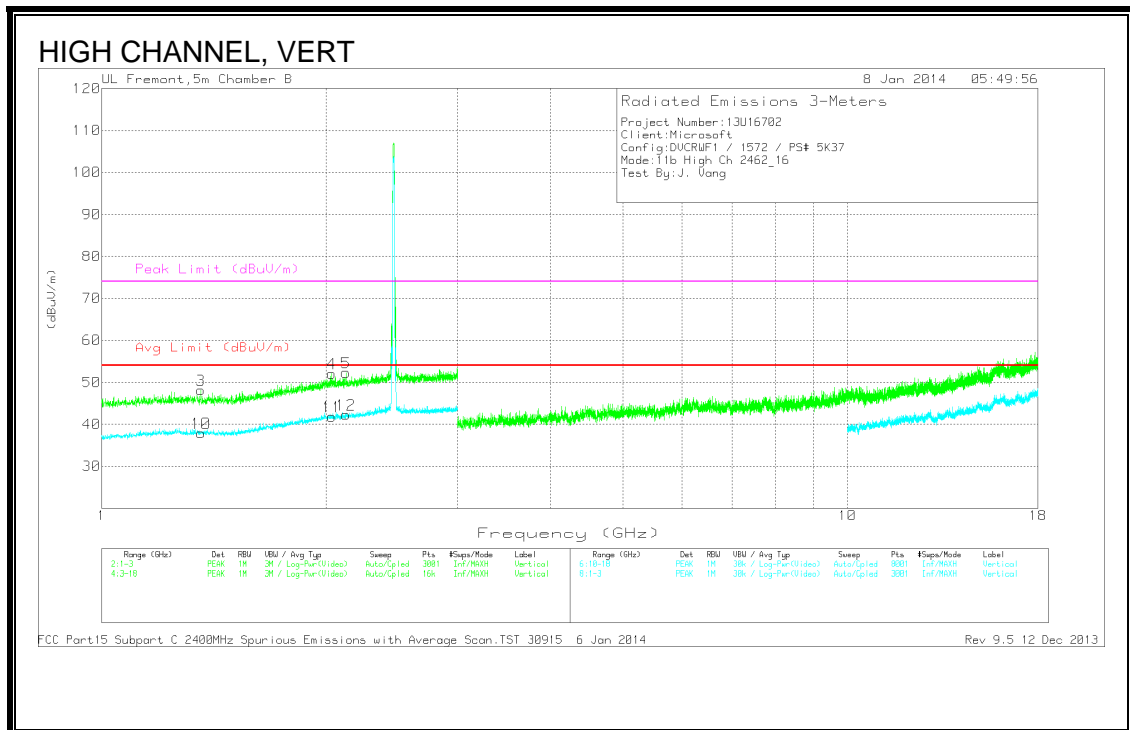
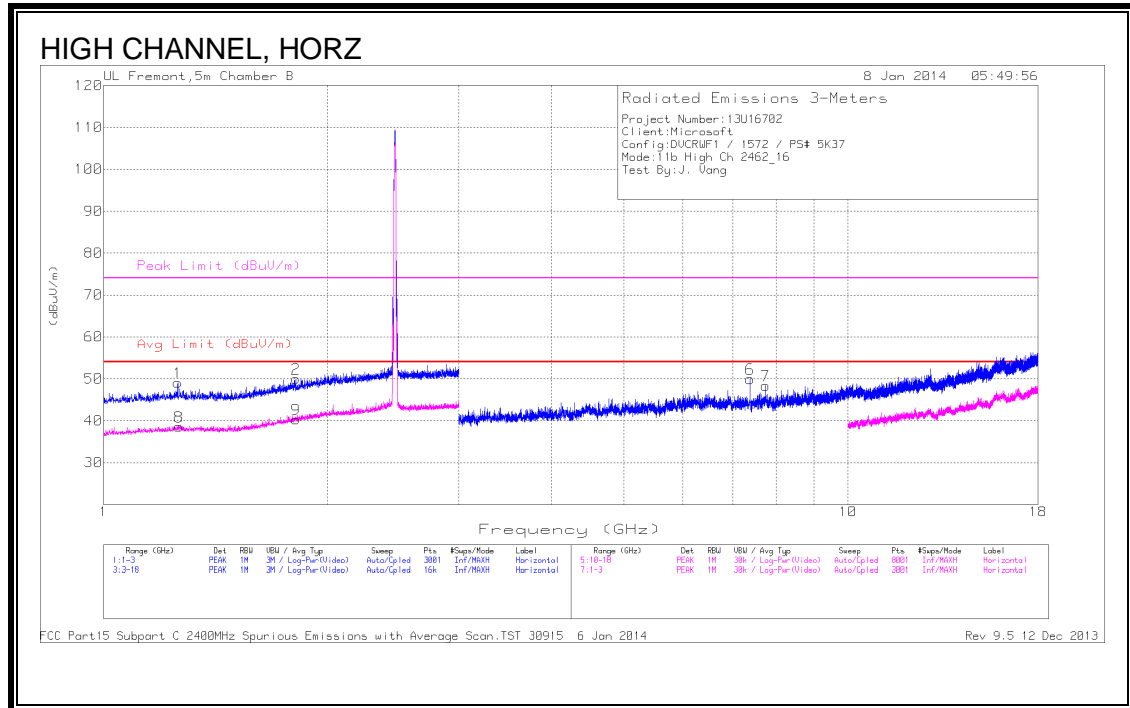
MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb l/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.125	44.02	PK	28	-24.7	47.32	54	-6.68	74	-26.68	0-360	201	H
7	1.127	34.95	Avg	28	-24.7	38.25	54	-15.75	-	-	0-360	99	H
3	1.195	44.41	PK	28.3	-24.7	48.01	54	-5.99	74	-25.99	0-360	202	V
9	1.191	35.04	Avg	28.3	-24.7	38.64	54	-15.36	-	-	0-360	99	V
4	1.249	44.91	PK	28.6	-24.6	48.91	54	-5.09	74	-25.09	0-360	202	V
10	1.248	34.33	Avg	28.6	-24.6	38.33	54	-15.67	-	-	0-360	202	V
2	1.93	44.39	PK	31.3	-23.6	52.09	54	-1.91	74	-21.91	0-360	201	H
8	1.935	34.78	Avg	31.4	-23.6	42.58	54	-11.42	-	-	0-360	99	H
6	4.972	41.23	PK	34.6	-29.9	45.93	54	-8.07	74	-28.07	0-360	202	V
5	7.31	39.63	PK	35.8	-27.7	47.73	54	-6.27	74	-26.27	0-360	201	H

PK - Peak detector

Avg - Video bandwidth < Resolution bandwidth

HIGH CHANNEL



HIGH CHANNEL DATA

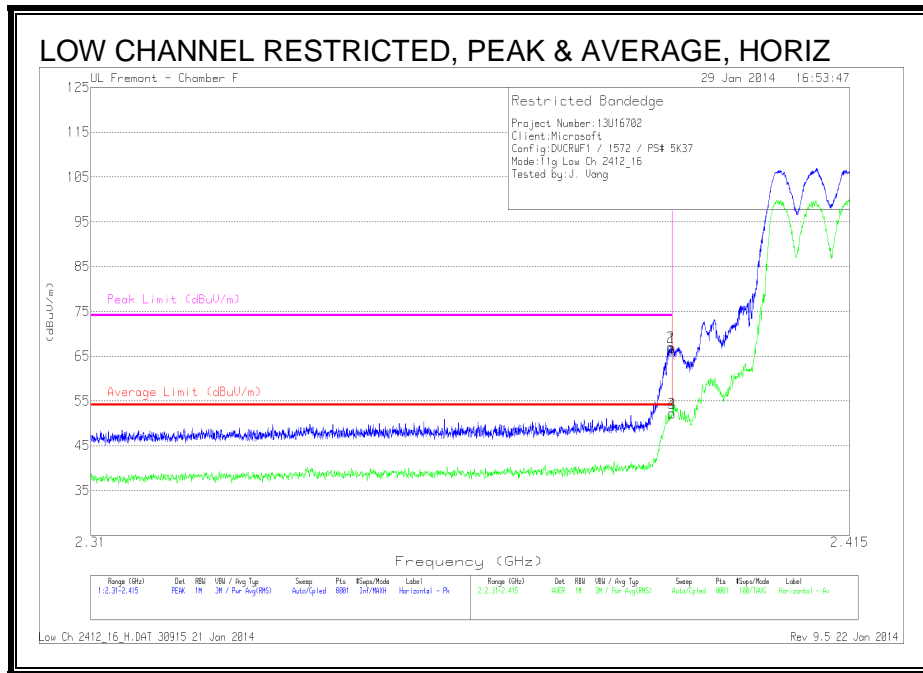
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.258	45.13	PK	28.6	-24.6	49.13	54	-4.87	74	-24.87	0-360	202	H
8	1.262	34.58	Avg	28.6	-24.6	38.58	54	-15.42	-	-	0-360	99	H
3	1.357	44.27	PK	28.4	-24.5	48.17	54	-5.83	74	-25.83	0-360	99	V
10	1.359	34.01	Avg	28.4	-24.5	37.91	54	-16.09	-	-	0-360	202	V
2	1.812	43.22	PK	30.5	-23.7	50.02	54	-3.98	74	-23.98	0-360	99	H
9	1.813	33.56	Avg	30.5	-23.7	40.36	54	-13.64	-	-	0-360	99	H
4	2.033	43.79	PK	31.8	-23.5	52.09	54	-1.91	74	-21.91	0-360	202	V
11	2.034	33.55	Avg	31.8	-23.5	41.85	54	-12.15	-	-	0-360	202	V
5	2.125	43.63	PK	32	-23.3	52.33	54	-1.67	74	-21.67	0-360	202	V
12	2.125	33.6	Avg	32	-23.3	42.3	54	-11.7	-	-	0-360	99	V
6	7.383	41.46	PK	35.9	-27.4	49.96	54	-4.04	74	-24.04	0-360	201	H
7	7.753	38.16	PK	36.2	-26	48.36	54	-5.64	74	-25.64	0-360	99	H

PK - Peak detector

Avg - Video bandwidth < Resolution bandwidth

8.5. TX ABOVE 1 GHz 802.11g MODE IN THE 2.4 GHz BAND

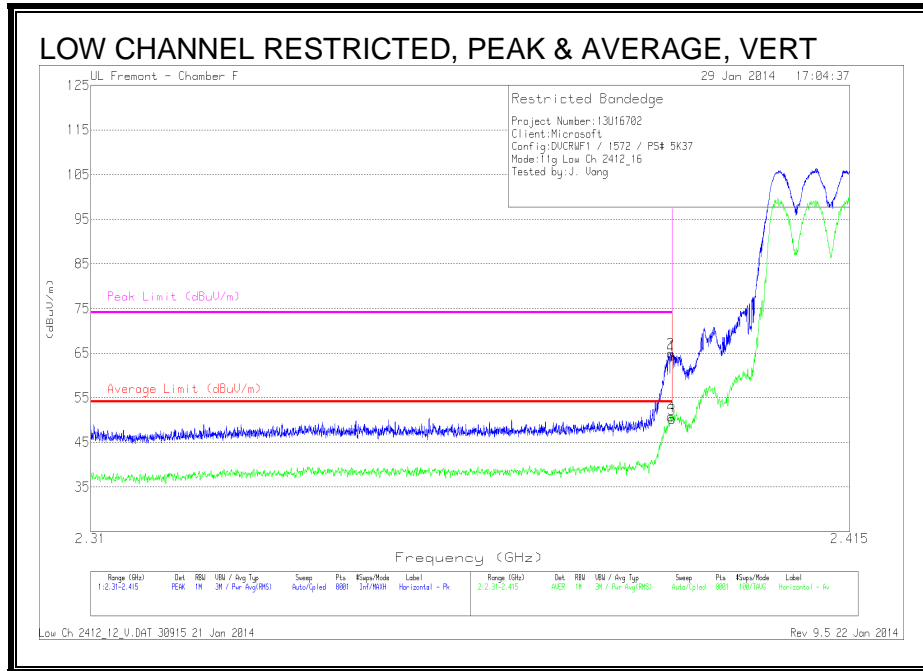
RESTRICTED BANDEDGE (LOW CHANNEL 2412)



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	2.39	58.56	PK	32.1	-23.8	66.86	-	-	74	-7.14	275	134	H
2	2.39	58.76	PK	32.1	-23.8	67.06	-	-	74	-6.94	275	134	H
3	2.39	43.91	RMS	32.1	-23.8	52.21	54	-1.79	-	-	275	134	H
4	2.39	43.91	RMS	32.1	-23.8	52.21	54	-1.79	-	-	275	134	H

PK - Peak detector

RMS - RMS detection

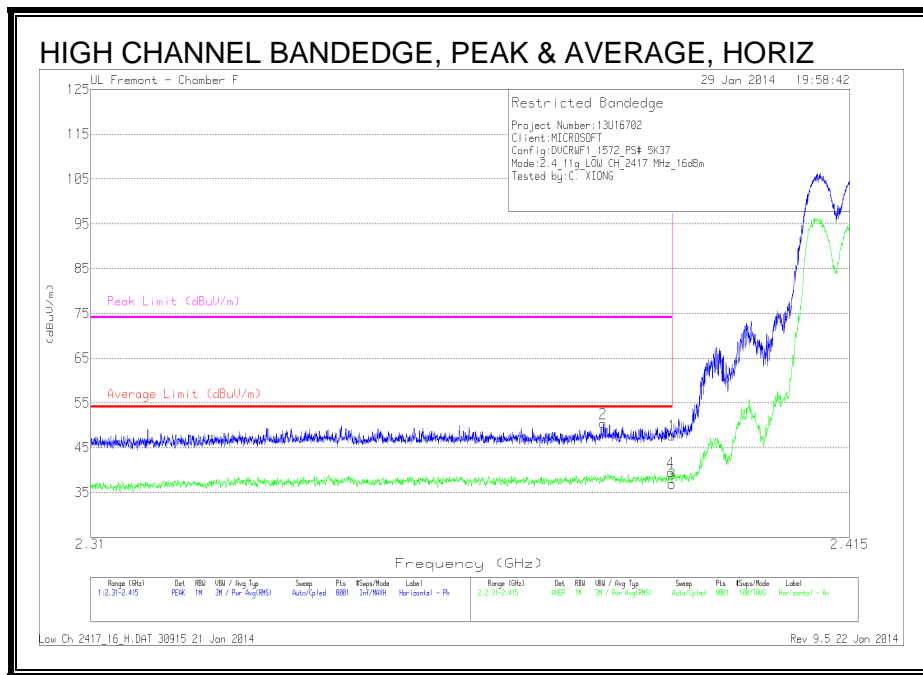


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.39	56.21	PK	32.1	-23.8	64.51	-	-	74	-9.49	308	257	V
2	2.39	56.67	PK	32.1	-23.8	64.97	-	-	74	-9.03	308	257	V
3	2.39	41.93	RMS	32.1	-23.8	50.23	54	-3.77	-	-	308	257	V
4	2.39	42.51	RMS	32.1	-23.8	50.81	54	-3.19	-	-	308	257	V

PK - Peak detector

RMS - RMS detection

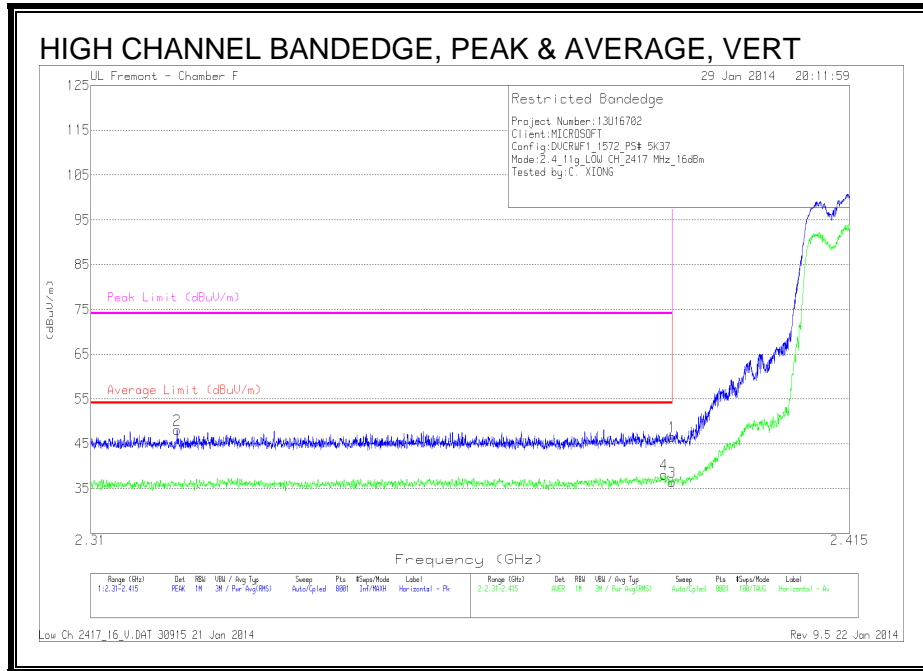
AUTHORIZED BANDEDGE (LOW CHANNEL 2417)



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	2.39	39.46	PK	32.1	-23.8	47.76	-	-	74	-26.24	279	315	H
2	2.38	42.11	PK	32.1	-23.8	50.41	-	-	74	-23.59	279	315	H
3	2.39	28.65	RMS	32.1	-23.8	36.95	54	-17.05	-	-	279	315	H
4	2.39	31.17	RMS	32.1	-23.8	39.47	54	-14.53	-	-	279	315	H

PK - Peak detector

RMS - RMS detection

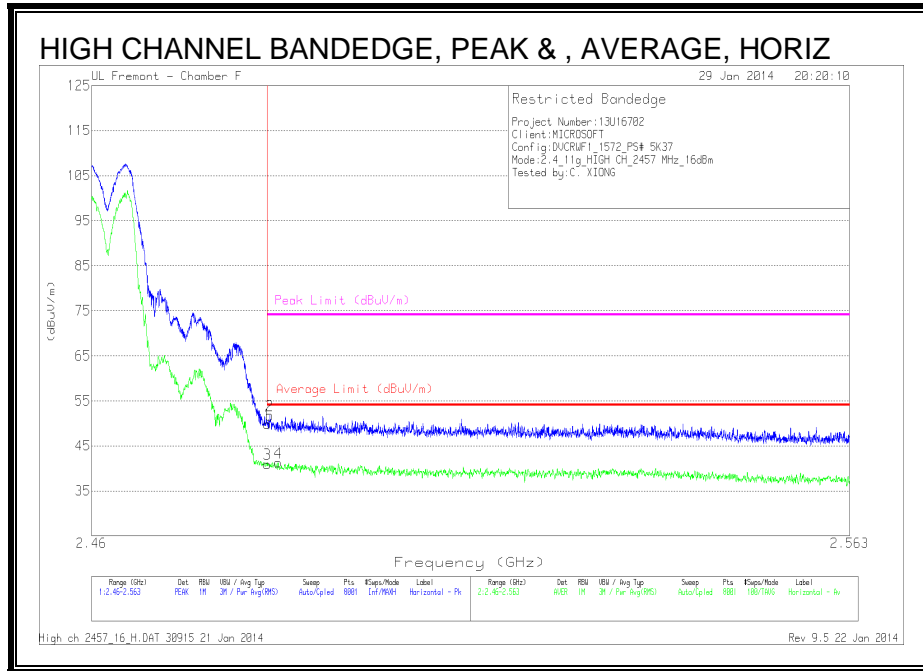


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.39	38.23	PK	32.1	-23.8	46.53	-	-	74	-27.47	15	180	V
2	2.322	39.56	PK	32	-23.5	48.06	-	-	74	-25.94	15	180	V
3	2.39	28.14	RMS	32.1	-23.8	36.44	54	-17.56	-	-	15	180	V
4	2.389	29.79	RMS	32.1	-23.8	38.09	54	-15.91	-	-	15	180	V

PK - Peak detector

RMS - RMS detection

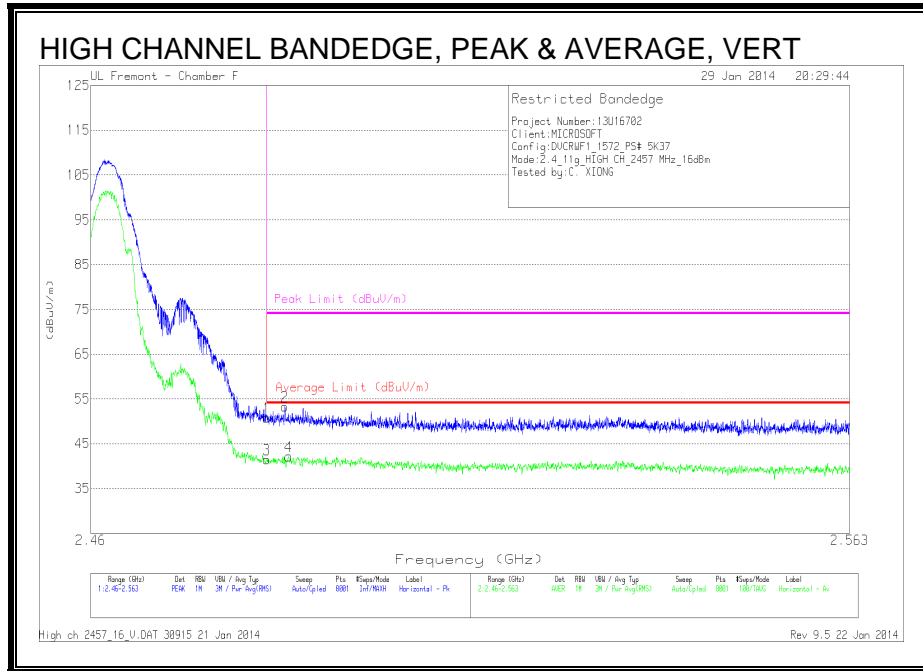
AUTHORIZED BANDEDGE (HIGH CHANNEL 2457)



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	2.484	40.45	PK	32.4	-23	49.85	-	-	74	-24.15	245	285	H
2	2.484	42.36	PK	32.4	-23	51.76	-	-	74	-22.24	245	285	H
3	2.484	31.55	RMS	32.4	-23	40.95	54	-13.05	-	-	245	285	H
4	2.485	31.79	RMS	32.4	-22.9	41.29	54	-12.71	-	-	245	285	H

PK - Peak detector

RMS - RMS detection

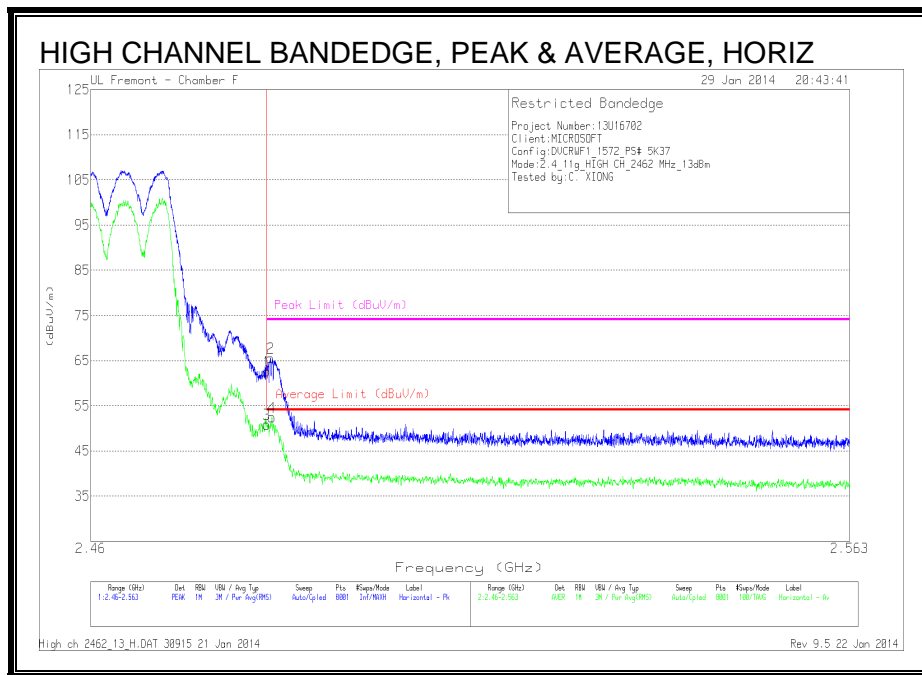


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	41.38	PK	32.4	-23	50.78	-	-	74	-23.22	296	264	V
2	2.486	43.77	PK	32.4	-22.9	53.27	-	-	74	-20.73	296	264	V
3	2.484	32.1	RMS	32.4	-23	41.5	54	-12.5	-	-	296	264	V
4	2.486	32.66	RMS	32.4	-22.9	42.16	54	-11.84	-	-	296	264	V

PK - Peak detector

RMS - RMS detection

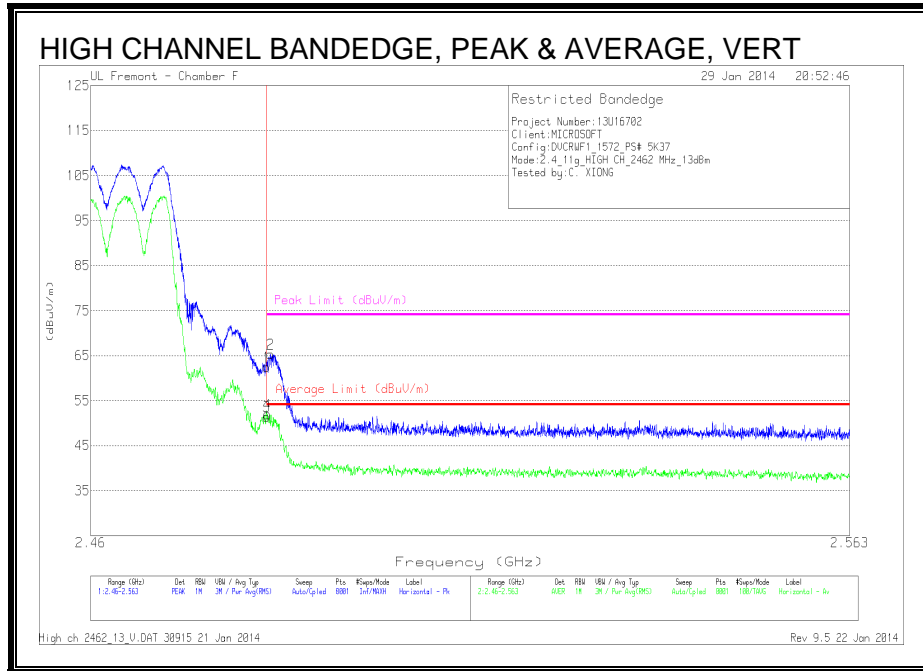
AUTHORIZED BANDEDGE (HIGH CHANNEL 2462)



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	2.484	53.18	PK	32.4	-23	62.58	-	-	74	-11.42	280	131	H
2	2.484	56.17	PK	32.4	-23	65.57	-	-	74	-8.43	280	131	H
3	2.484	41.46	RMS	32.4	-23	50.86	54	-3.14	-	-	280	131	H
4	2.484	42.96	RMS	32.4	-22.9	52.46	54	-1.54	-	-	280	131	H

PK - Peak detector

RMS - RMS detection



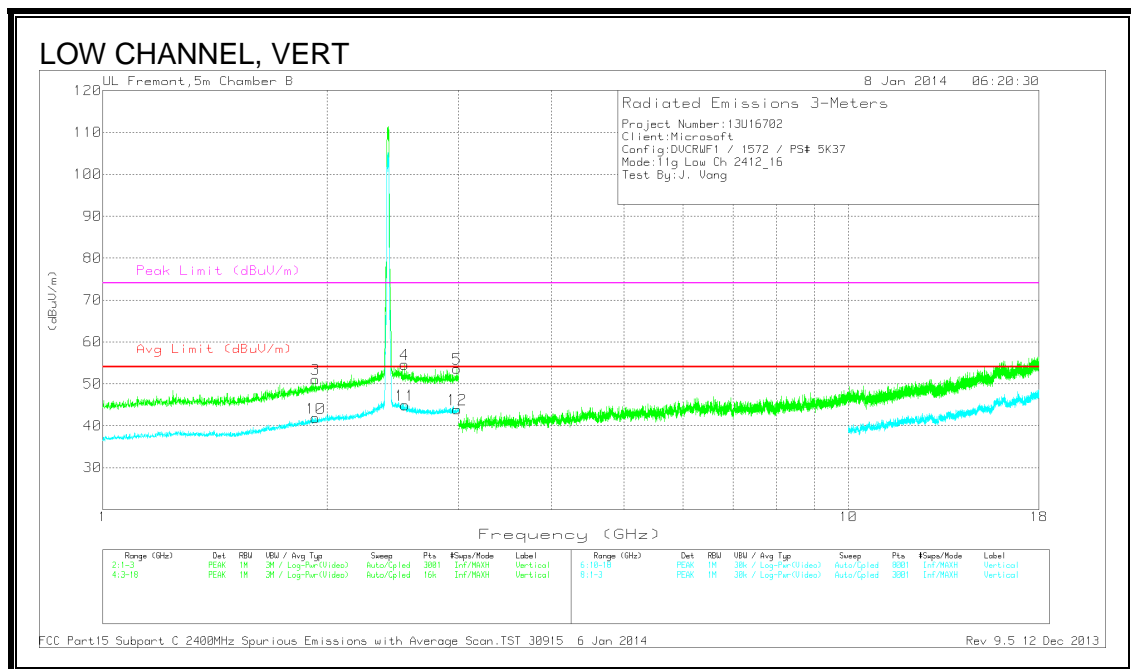
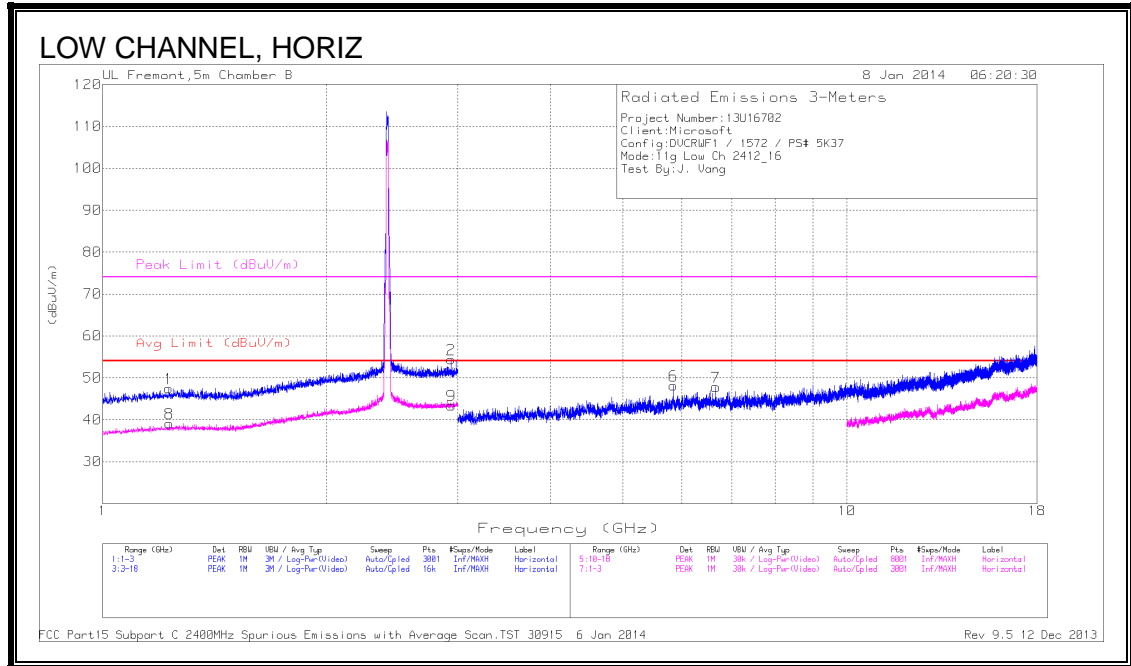
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	53.04	PK	32.4	-23	62.44	-	-	74	-11.56	306	244	V
2	2.484	55.94	PK	32.4	-23	65.34	-	-	74	-8.66	306	244	V
3	2.484	42.06	RMS	32.4	-23	51.46	54	-2.54	-	-	306	244	V
4	2.484	42.57	RMS	32.4	-23	51.97	54	-2.03	-	-	306	244	V

PK - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



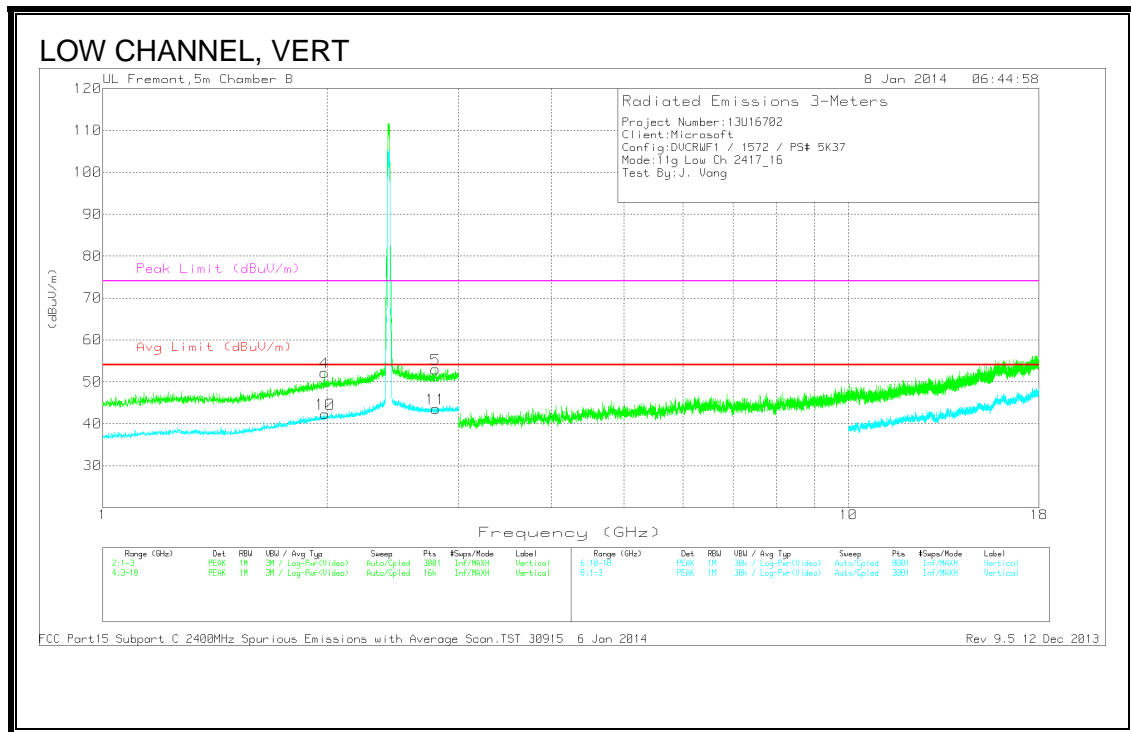
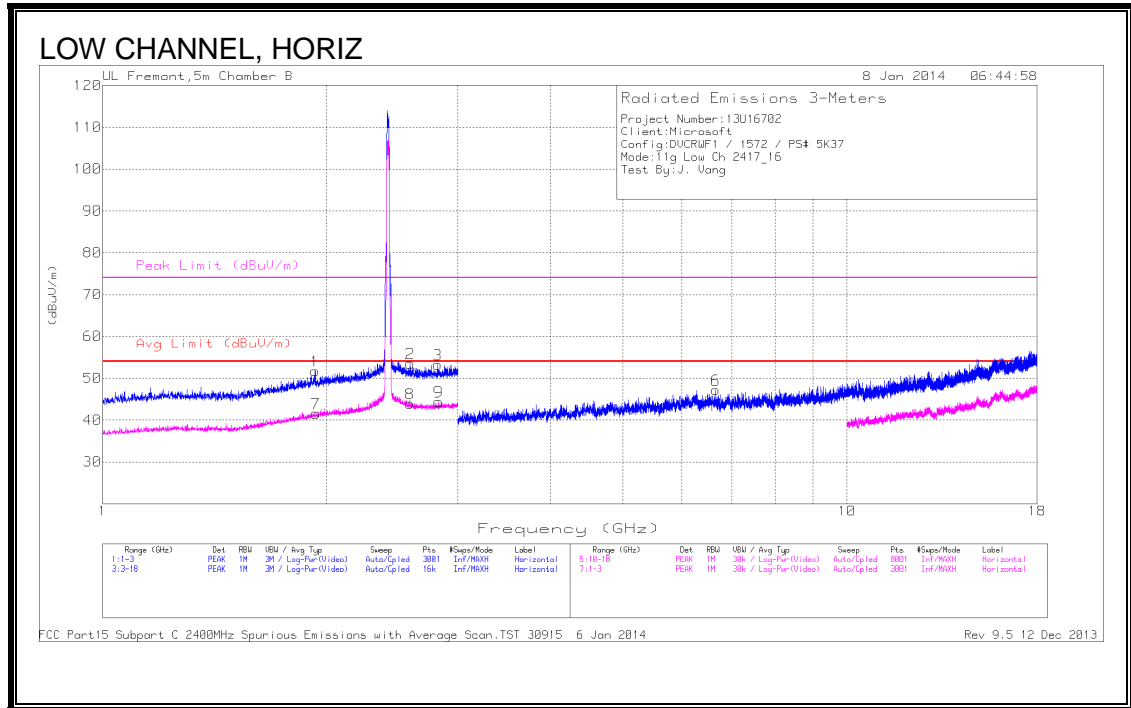
LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.227	43.7	PK	28.5	-24.7	47.5	54	-6.5	74	-26.5	0-360	202	H
8	1.229	35.31	Avg	28.5	-24.7	39.11	54	-14.89	-	-	0-360	202	H
3	1.928	43.41	PK	31.3	-23.6	51.11	54	-2.89	74	-22.89	0-360	202	V
10	1.929	34.13	Avg	31.3	-23.6	41.83	54	-12.17	-	-	0-360	202	V
4	2.539	44.71	PK	32.5	-22.6	54.61	-	-	74	-19.39	0-360	202	V
11	2.543	34.91	Avg	32.6	-22.6	44.91	54	-9.09	-	-	0-360	202	V
2	2.939	43.8	PK	33	-22.4	54.4	-	-	74	-19.6	0-360	99	H
9	2.941	32.81	Avg	33	-22.4	43.41	54	-10.59	-	-	0-360	202	H
5	2.985	42.9	PK	33.1	-22.4	53.6	54	-4	74	-20.4	0-360	202	V
12	2.987	33.2	Avg	33.1	-22.4	43.9	54	-10.1	-	-	0-360	202	V
6	5.846	41.86	PK	35.5	-29.2	48.16	54	-5.84	74	-25.84	0-360	99	H
7	6.665	40.92	PK	35.8	-28.9	47.82	54	-6.18	74	-26.18	0-360	201	H

PK - Peak detector

Avg - Video bandwidth < Resolution bandwidth

LOW CHANNEL 2417



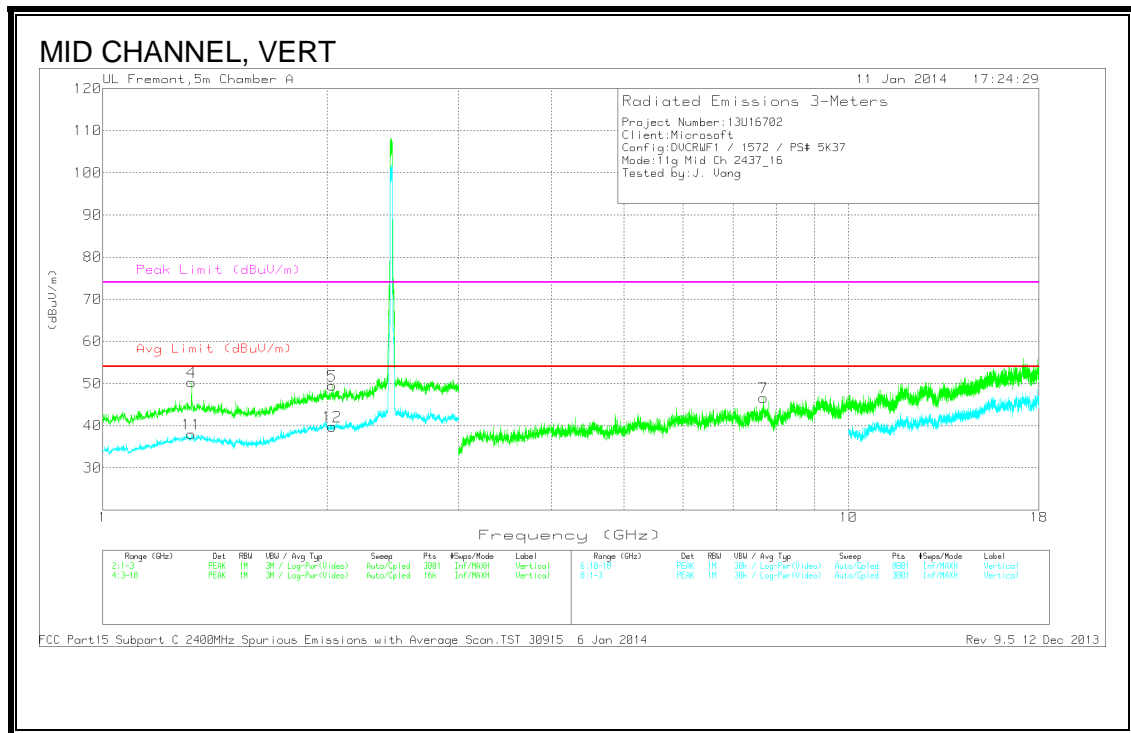
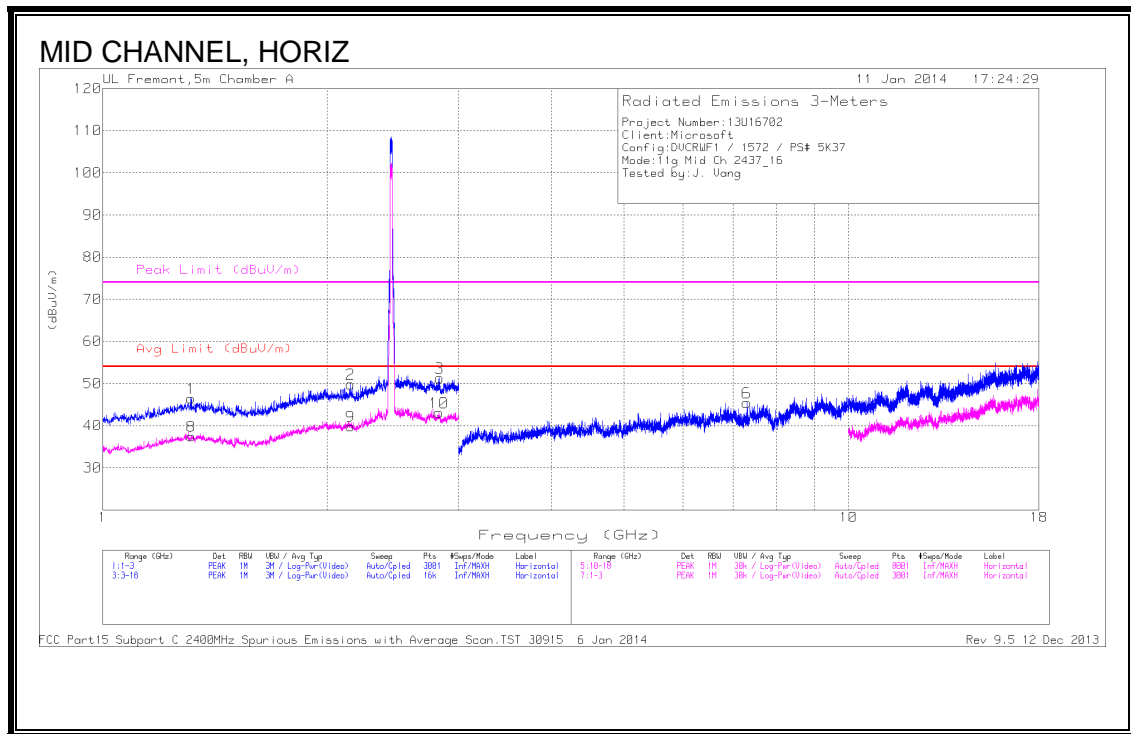
LOW CHANNEL 2417 DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.93	44.07	PK	31.3	-23.6	51.77	54	-2.23	74	-22.23	0-360	202	H
7	1.933	33.89	Avg	31.3	-23.6	41.59	54	-12.41	-	-	0-360	202	H
4	1.983	44	PK	31.7	-23.5	52.2	54	-1.8	74	-21.8	0-360	202	V
10	1.987	34.08	Avg	31.7	-23.5	42.28	54	-11.72	-	-	0-360	202	V
2	2.589	43.66	PK	32.6	-22.7	53.56	54	-.44	74	-20.44	0-360	202	H
8	2.589	34.06	Avg	32.6	-22.7	43.96	54	-10.04	-	-	0-360	202	H
5	2.794	42.5	PK	32.9	-22.4	53	54	-1	74	-21	0-360	202	V
11	2.795	33.06	Avg	32.9	-22.4	43.56	54	-10.44	-	-	0-360	99	V
3	2.821	42.78	PK	32.9	-22.4	53.28	54	-.72	74	-20.72	0-360	202	H
9	2.827	33.89	Avg	32.9	-22.4	44.39	54	-9.61	-	-	0-360	99	H
6	6.663	40.3	PK	35.8	-28.9	47.2	54	-6.8	74	-26.8	0-360	201	H

PK - Peak detector

Avg - Video bandwidth < Resolution bandwidth

MID CHANNEL



MID CHANNEL DATA

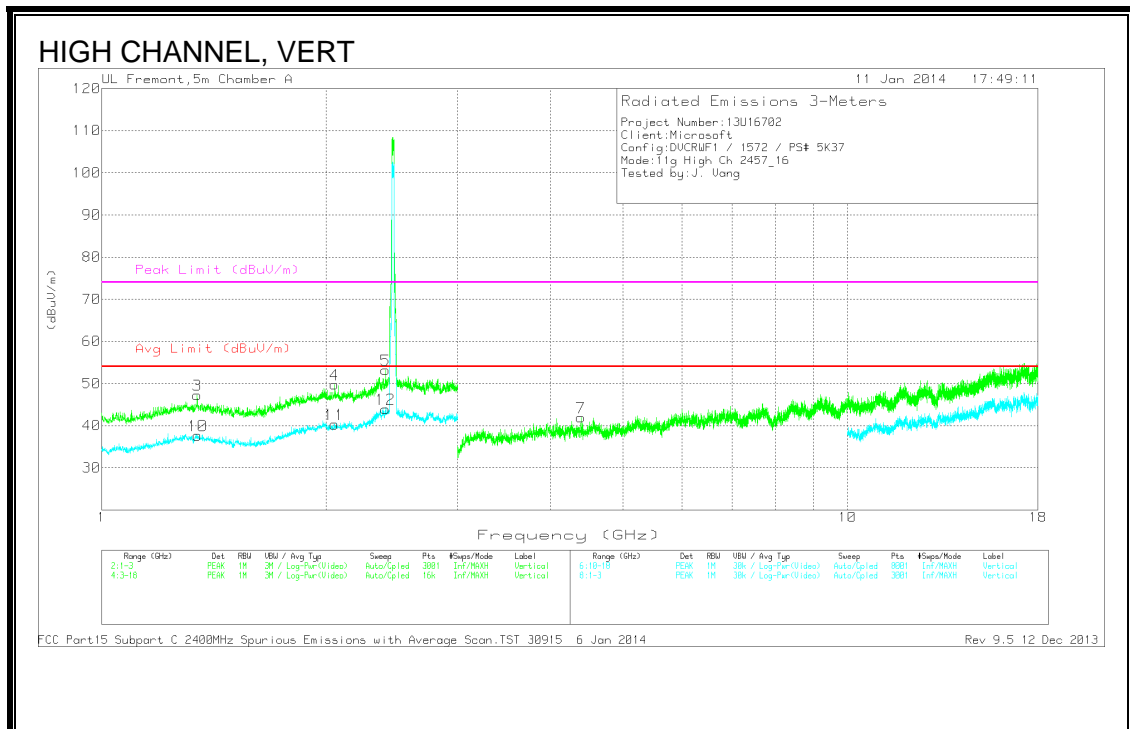
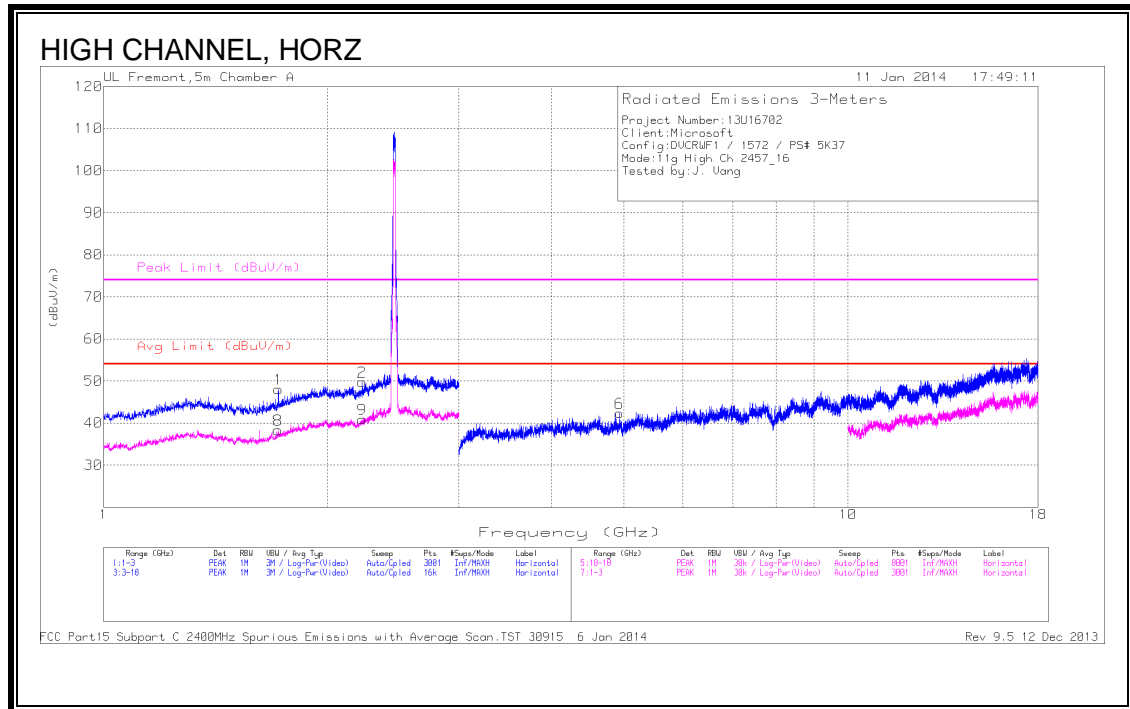
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/10dB Pad	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.313	43.1	PK	30.2	-26.8	46.5	54	-7.5	74	-27.5	0-360	100	H
8	1.314	34.09	Avg	30.2	-26.8	37.49	54	-16.51	-	-	0-360	101	H
4	1.315	46.8	PK	30.2	-26.7	50.3	54	-3.7	74	-23.7	0-360	201	V
11	1.315	34.63	Avg	30.2	-26.8	38.03	54	-15.97	-	-	0-360	101	V
5	2.03	42.58	PK	31.8	-24.9	49.48	54	-4.52	74	-24.52	0-360	101	V
12	2.03	32.91	Avg	31.8	-24.9	39.81	54	-14.19	-	-	0-360	200	V
2	2.15	42.46	PK	31.6	-24.2	49.86	54	-4.14	74	-24.14	0-360	200	H
9	2.15	32.47	Avg	31.6	-24.2	39.87	54	-14.13	-	-	0-360	200	H
3	2.829	41.6	PK	32.5	-22.8	51.3	54	-2.7	74	-22.7	0-360	100	H
10	2.823	33.19	Avg	32.6	-22.7	43.09	54	-10.91	-	-	0-360	200	H

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/3GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	7.304	37.3	PK	35.3	-27.1	45.5	54	-8.5	74	-28.5	0-360	200	H
7	7.692	35.72	PK	35.5	-24.6	46.62	54	-7.38	74	-27.38	0-360	200	V

PK - Peak detector

Avg - Video bandwidth < Resolution bandwidth

HIGH CHANNEL 2457



HIGH CHANNEL 2457 DATA

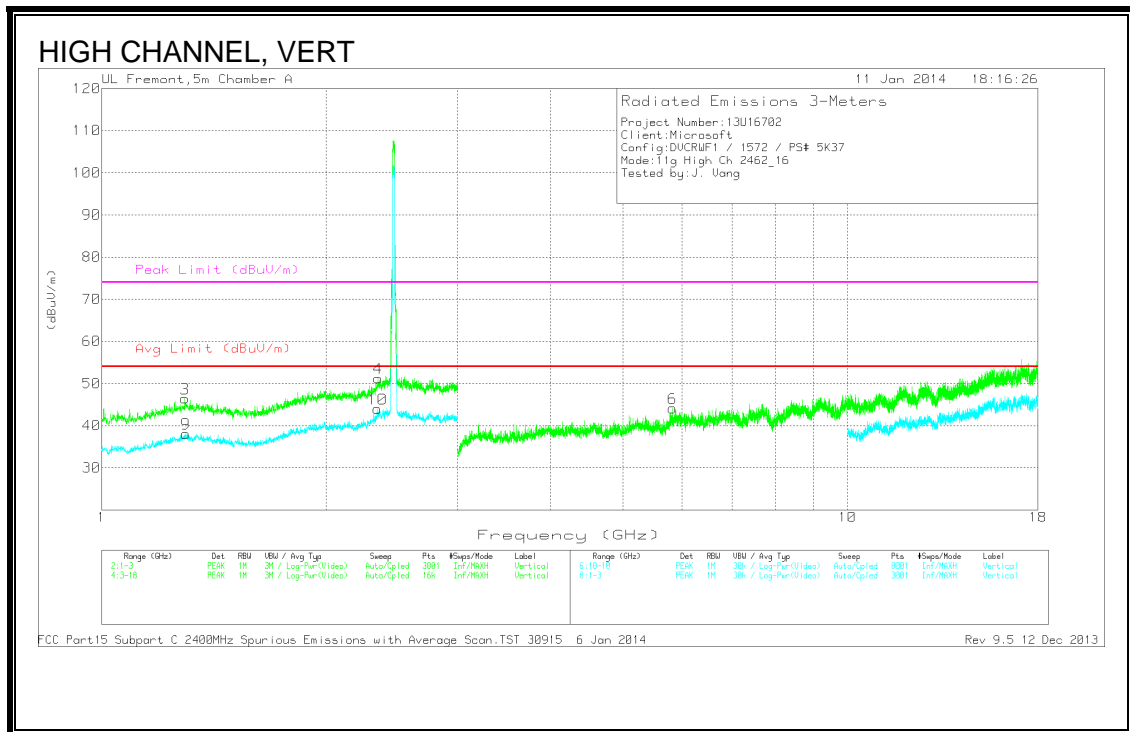
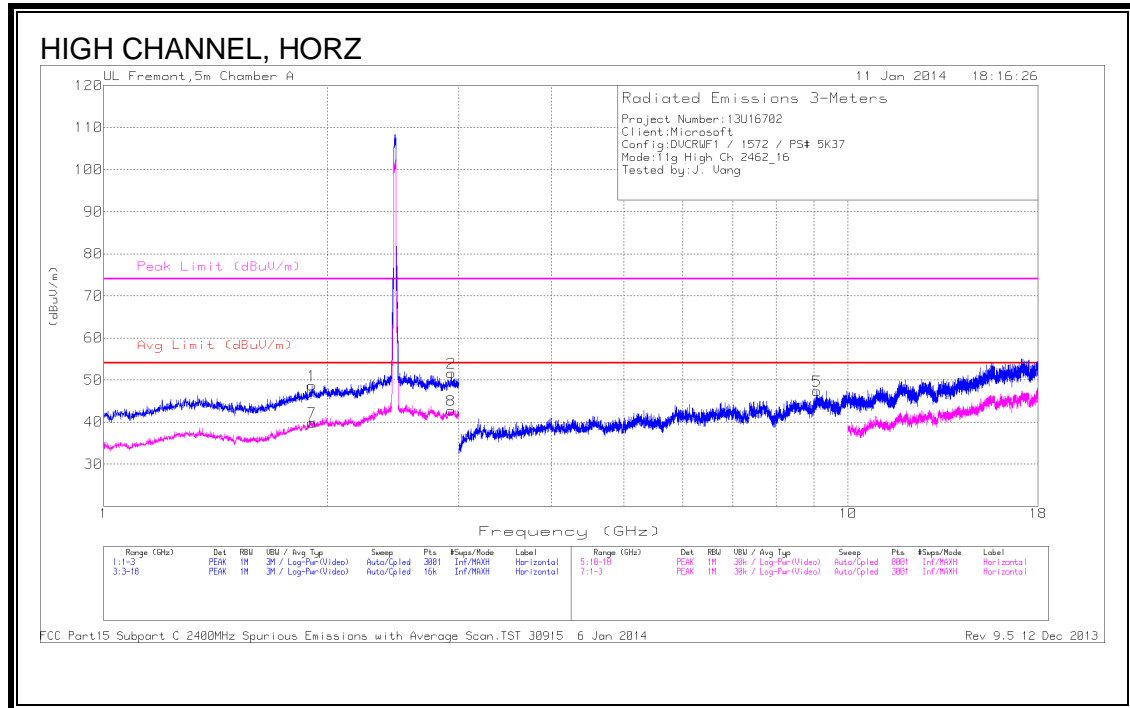
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/10dB Pad	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	1.343	43.48	PK	30.1	-26.3	47.28	54	-6.72	74	-26.72	0-360	101	V
10	1.344	33.97	Avg	30.1	-26.4	37.67	54	-16.33	-	-	0-360	101	V
1	1.717	44.09	PK	29.6	-25.6	48.09	54	-5.91	74	-25.91	0-360	101	H
8	1.715	34.34	Avg	29.6	-25.6	38.34	54	-15.66	-	-	0-360	101	H
4	2.052	42.45	PK	31.7	-24.4	49.75	54	-4.25	74	-24.25	0-360	101	V
11	2.051	33.11	Avg	31.7	-24.5	40.31	54	-13.69	-	-	0-360	101	V
2	2.225	42.79	PK	31.5	-24.5	49.79	54	-4.21	74	-24.21	0-360	200	H
9	2.224	33.93	Avg	31.5	-24.5	40.93	54	-13.07	-	-	0-360	201	H
5	2.402	44.63	PK	32.1	-23.5	53.23	54	-.77	74	-20.77	0-360	201	V
12	2.402	35.32	Avg	32.1	-23.5	43.92	54	-10.08	-	-	0-360	201	V

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/3GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7	4.39	38.47	PK	33.6	-30.1	41.97	54	-12.03	74	-32.03	0-360	200	V
6	4.933	37.26	PK	34	-28.9	42.36	54	-11.64	74	-31.64	0-360	101	H

PK - Peak detector

Avg - Video bandwidth < Resolution bandwidth

HIGH CHANNEL



HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/10dB Pad	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	1.293	42.93	PK	30.2	-26.7	46.43	54	-7.57	74	-27.57	0-360	201	V
9	1.296	34.38	Avg	30.3	-26.6	38.08	54	-15.92	-	-	0-360	201	V
1	1.904	42.21	PK	31.7	-25.2	48.71	54	-5.29	74	-25.29	0-360	101	H
7	1.905	33.35	Avg	31.7	-25.2	39.85	54	-14.15	-	-	0-360	200	H
4	2.347	43.15	PK	31.8	-23.7	51.25	54	-2.75	74	-22.75	0-360	201	V
10	2.342	36	Avg	31.8	-23.8	44	54	-10	-	-	0-360	201	V
2	2.932	41.85	PK	32.5	-22.7	51.65	54	-2.35	74	-22.35	0-360	200	H
8	2.928	32.98	Avg	32.5	-22.7	42.78	54	-11.22	-	-	0-360	100	H

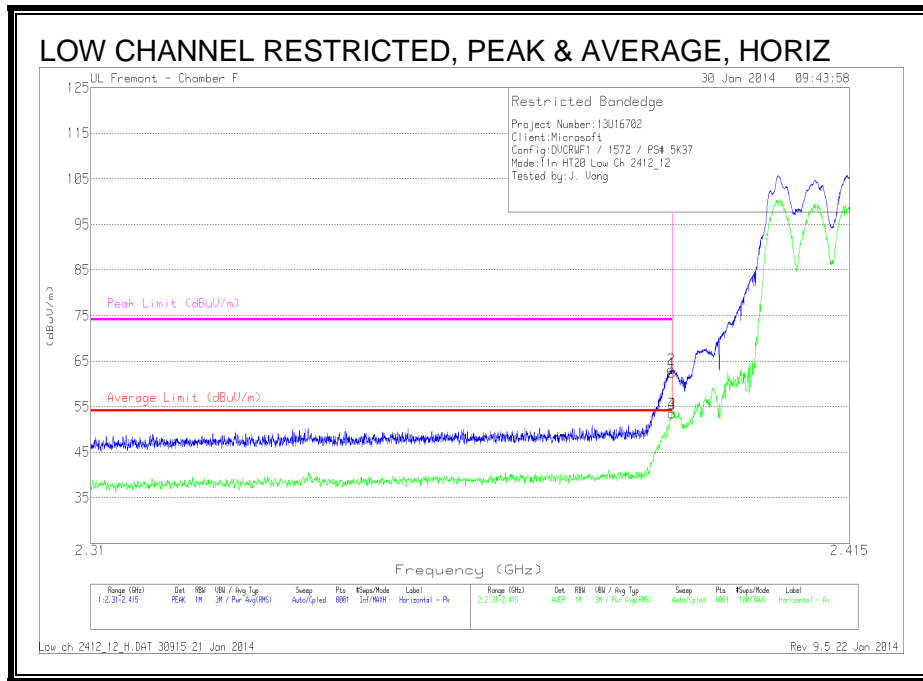
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/3GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	5.828	37.63	PK	34.9	-28.4	44.13	54	-9.87	74	-29.87	0-360	201	V
5	9.085	35.19	PK	36	-23.8	47.39	54	-6.61	74	-26.61	0-360	100	H

PK - Peak detector

Avg - Video bandwidth < Resolution bandwidth

8.6. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 2.4 GHz BAND

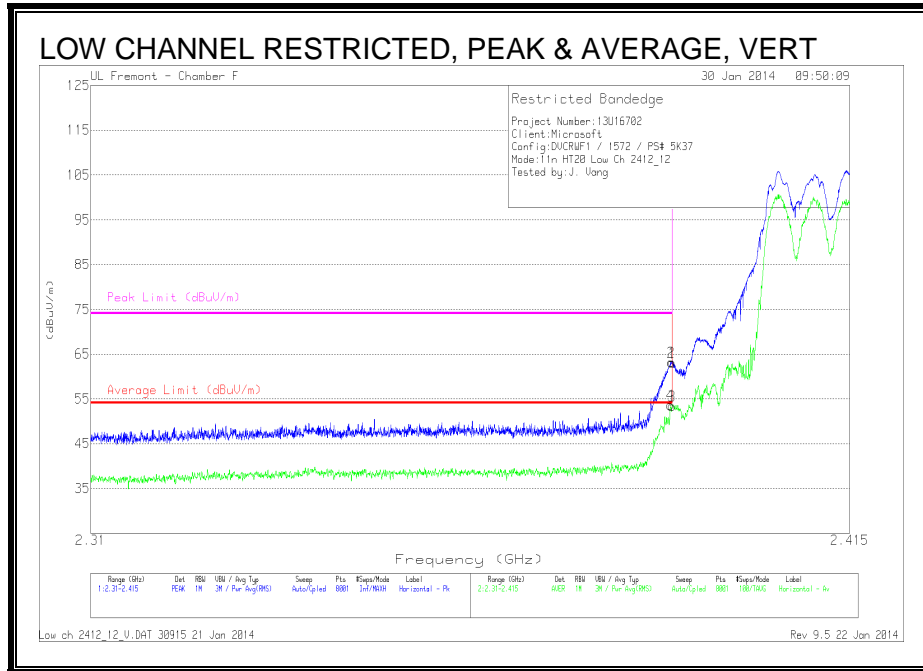
RESTRICTED BANDEDGE (LOW CHANNEL 2412)



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	2.39	54.14	PK	32.1	-23.8	62.44	-	-	74	-11.56	272	173	H
2	2.39	54.92	PK	32.1	-23.8	63.22	-	-	74	-10.78	272	173	H
3	2.39	45.2	RMS	32.1	-23.8	53.5	54	-5	-	-	272	173	H
4	2.39	45.2	RMS	32.1	-23.8	53.5	54	-5	-	-	272	173	H

PK - Peak detector

RMS - RMS detection

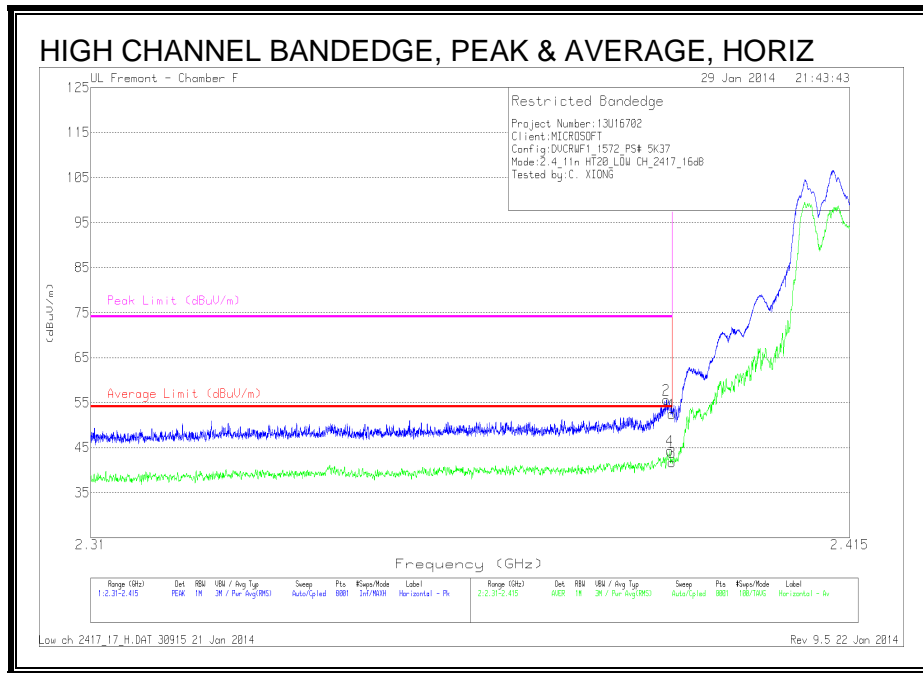


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.39	54.77	PK	32.1	-23.8	63.07	-	-	74	-10.93	313	256	V
2	2.39	54.92	PK	32.1	-23.8	63.22	-	-	74	-10.78	313	256	V
3	2.39	45.14	RMS	32.1	-23.8	53.44	54	-.56	-	-	313	256	V
4	2.39	45.36	RMS	32.1	-23.8	53.66	54	-.34	-	-	313	256	V

PK - Peak detector

RMS - RMS detection

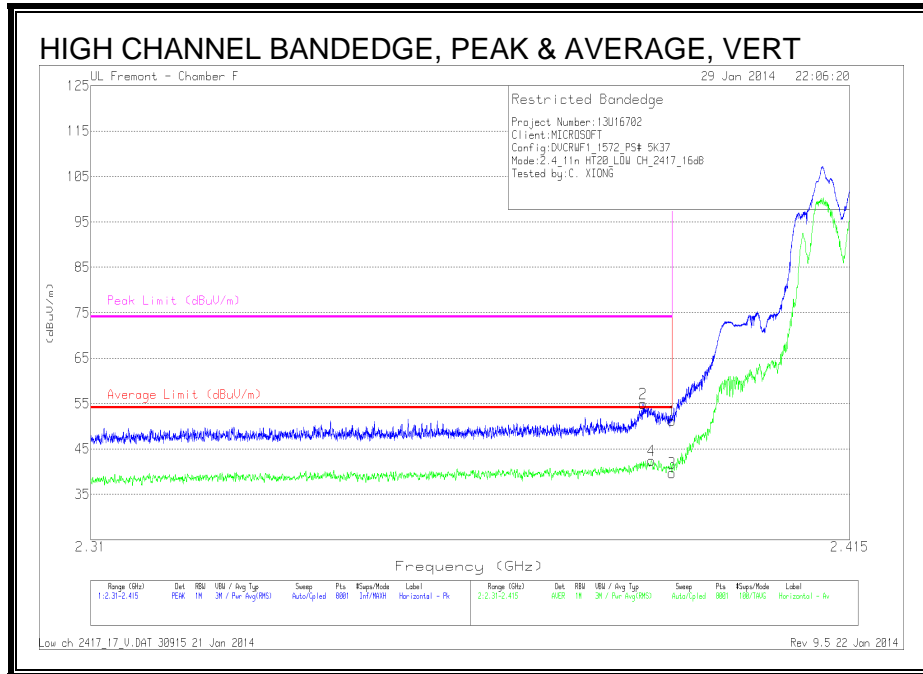
AUTHORIZED BANDEDGE (LOW CHANNEL 2417)



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	2.39	44.16	PK	32.1	-23.8	52.46	-	-	74	-21.54	260	168	H
2	2.389	47.34	PK	32.1	-23.8	55.64	-	-	74	-18.36	260	168	H
3	2.39	33.47	RMS	32.1	-23.8	41.77	54	-12.23	-	-	260	168	H
4	2.39	36.05	RMS	32.1	-23.8	44.35	54	-9.65	-	-	260	168	H

PK - Peak detector

RMS - RMS detection

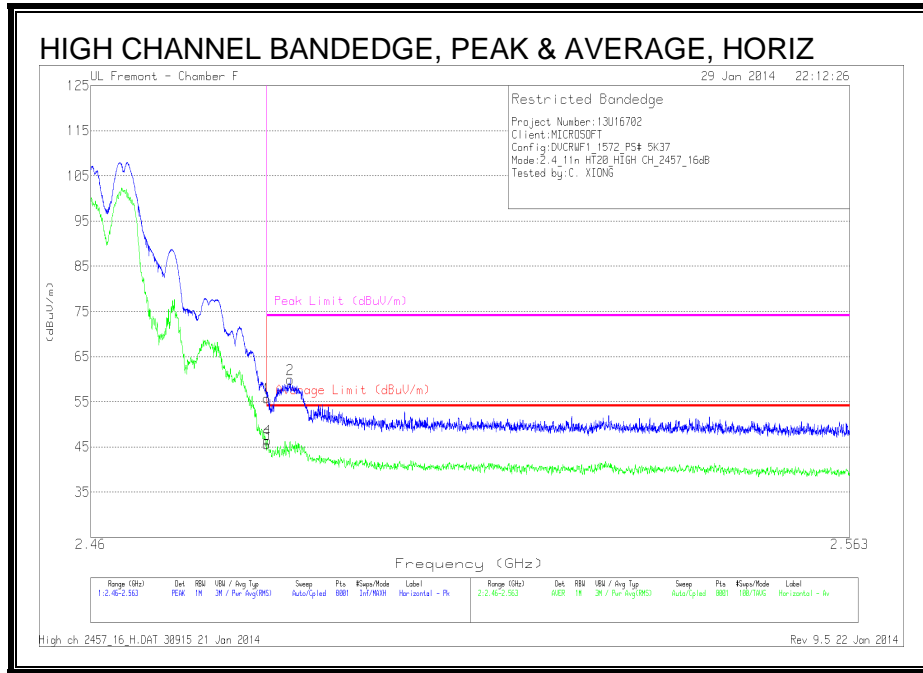


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.39	42.9	PK	32.1	-23.8	51.2	-	-	74	-22.8	308	134	V
2	2.386	46.68	PK	32.1	-23.8	54.98	-	-	74	-19.02	308	134	V
3	2.39	31.4	RMS	32.1	-23.8	39.7	54	-14.3	-	-	308	134	V
4	2.387	34.12	RMS	32.1	-23.8	42.42	54	-11.58	-	-	308	134	V

PK - Peak detector

RMS - RMS detection

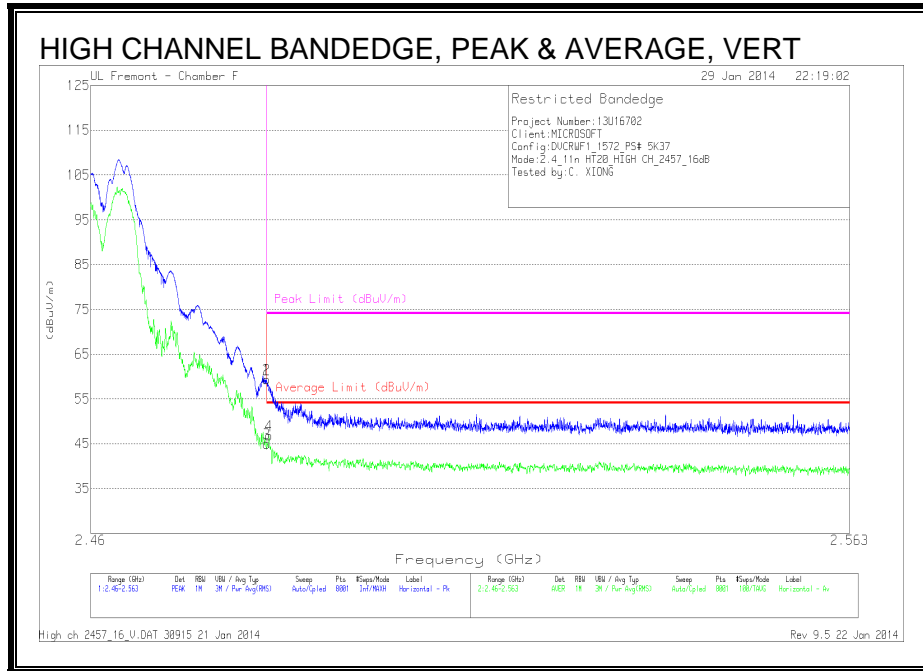
AUTHORIZED BANDEDGE (HIGH CHANNEL 2457)



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	2.484	46.36	PK	32.4	-23	55.76	-	-	74	-18.24	269	127	H
2	2.487	50.32	PK	32.4	-22.8	59.92	-	-	74	-14.08	269	127	H
3	2.484	36.18	RMS	32.4	-23	45.58	54	-8.42	-	-	269	127	H
4	2.484	37.04	RMS	32.4	-23	46.44	54	-7.56	-	-	269	127	H

PK - Peak detector

RMS - RMS detection

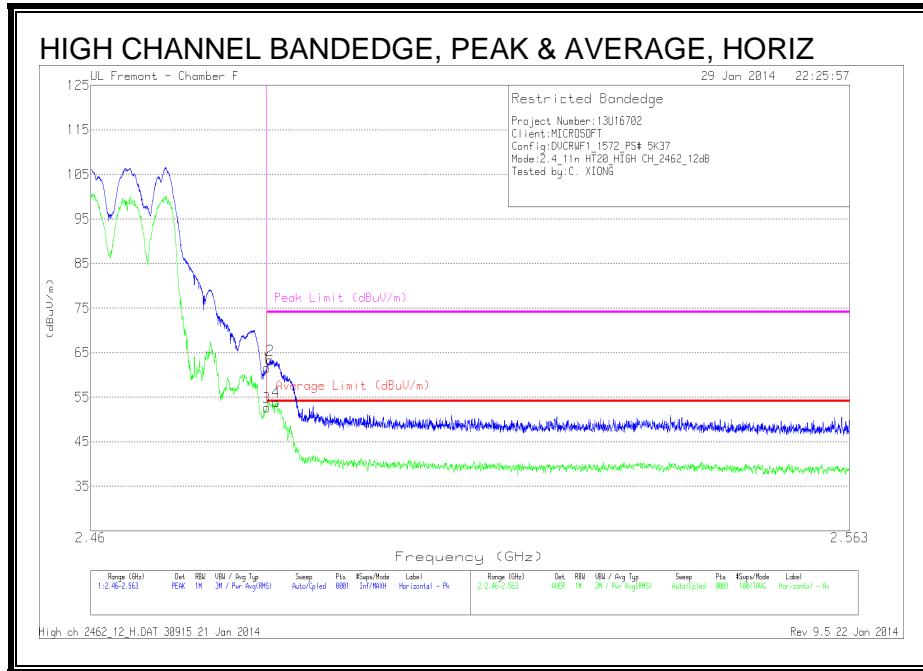


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	49.98	PK	32.4	-23	59.38	-	-	74	-14.62	310	122	V
2	2.484	49.98	PK	32.4	-23	59.38	-	-	74	-14.62	310	122	V
3	2.484	35.62	RMS	32.4	-23	45.02	54	-8.98	-	-	310	122	V
4	2.484	37.4	RMS	32.4	-23	46.8	54	-7.2	-	-	310	122	V

PK - Peak detector

RMS - RMS detection

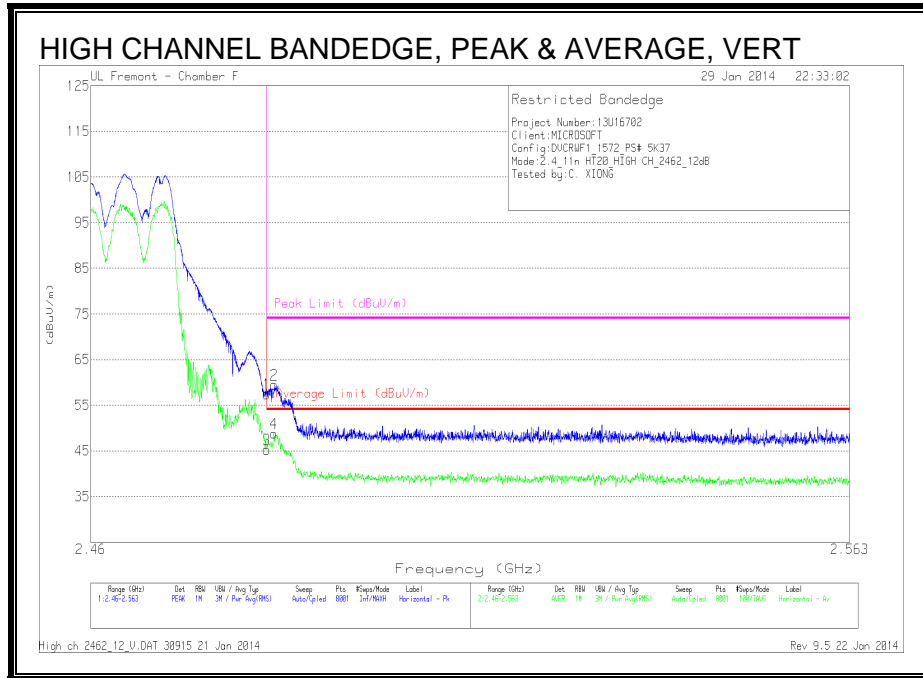
AUTHORIZED BANDEDGE (HIGH CHANNEL 2462)



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	2.484	52.22	PK	32.4	-23	61.62	-	-	74	-12.38	263	124	H
2	2.484	53.9	PK	32.4	-23	63.3	-	-	74	-10.7	263	124	H
3	2.484	43.28	RMS	32.4	-23	52.68	54	-1.32	-	-	263	124	H
4	2.485	44.44	RMS	32.4	-22.9	53.94	54	-0.06	-	-	263	124	H

PK - Peak detector

RMS - RMS detection



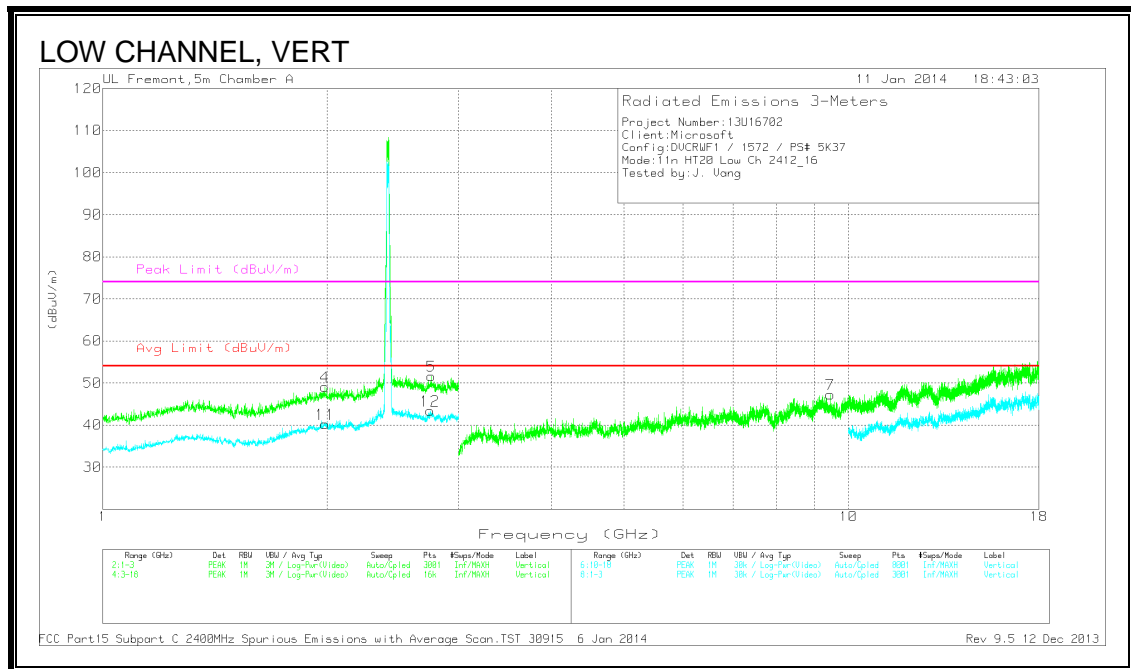
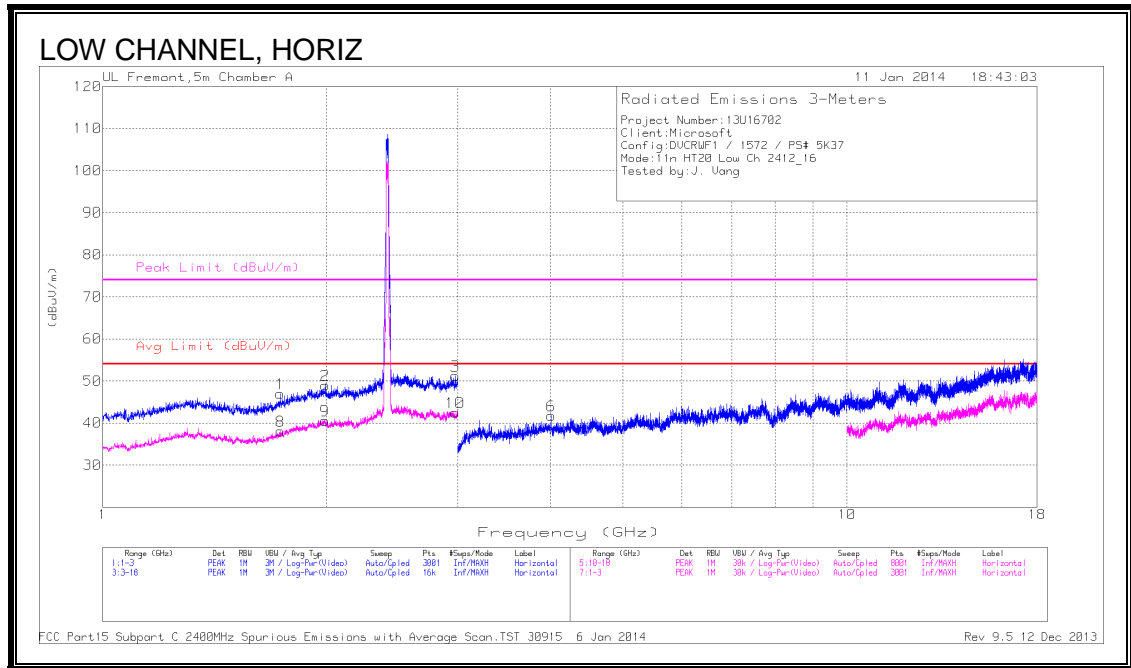
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	48.06	PK	32.4	-23	57.46	-	-	74	-16.54	314	214	V
2	2.485	49.97	PK	32.4	-22.9	59.47	-	-	74	-14.53	314	214	V
3	2.484	35.88	RMS	32.4	-23	45.28	54	-8.72	-	-	314	214	V
4	2.484	39.31	RMS	32.4	-22.9	48.81	54	-5.19	-	-	314	214	V

PK - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



LOW CHANNEL DATA

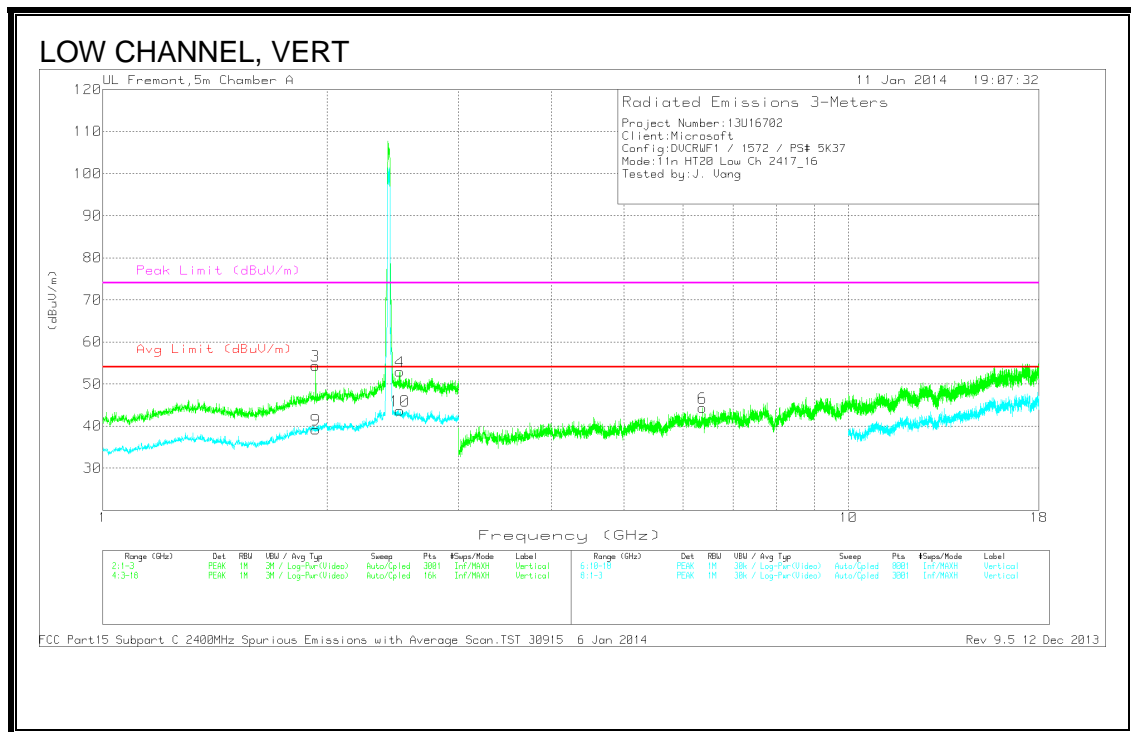
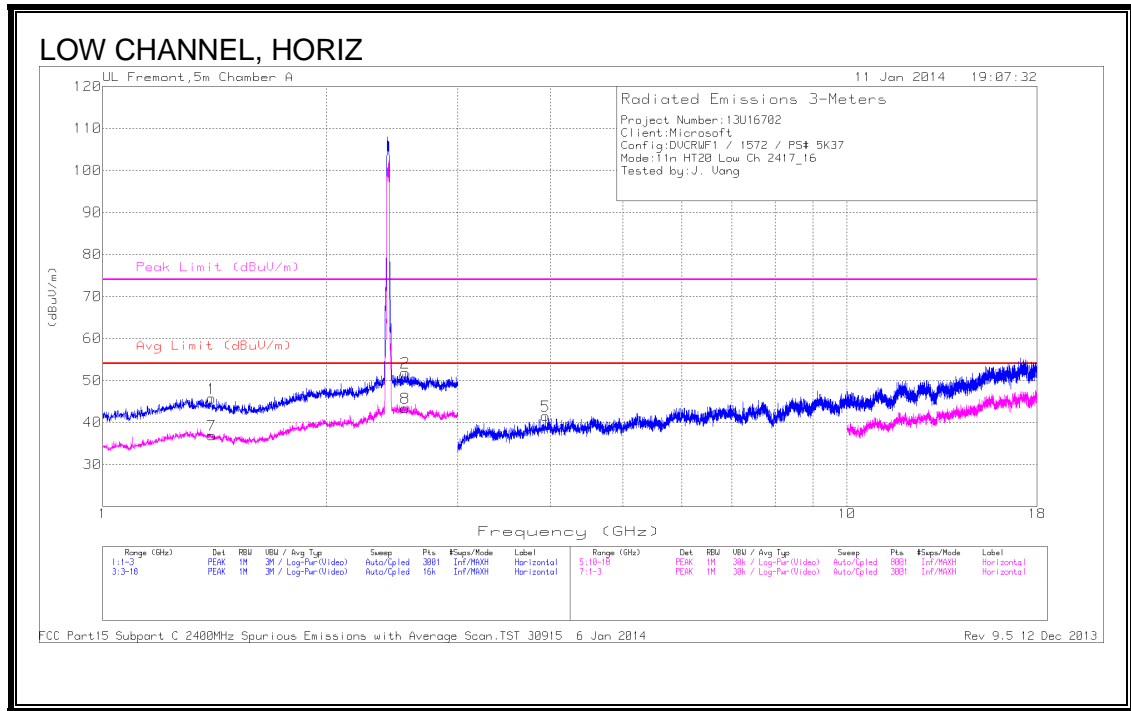
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/10dB Pad	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.732	42.82	PK	29.8	-25.6	47.02	54	-6.98	74	-26.98	0-360	200	H
8	1.733	33.86	Avg	29.8	-25.6	38.06	54	-15.94	-	-	0-360	200	H
4	1.985	41.6	PK	31.9	-24.4	49.1	54	-4.9	74	-24.9	0-360	201	V
11	1.987	32.75	Avg	31.9	-24.4	40.25	54	-13.75	-	-	0-360	201	V
2	1.991	41.62	PK	31.9	-24.5	49.02	54	-4.98	74	-24.98	0-360	101	H
9	1.989	33.08	Avg	31.9	-24.4	40.58	54	-13.42	-	-	0-360	101	H
5	2.758	41.46	PK	32.6	-22.4	51.66	54	-2.34	74	-22.34	0-360	101	V
12	2.747	33.33	Avg	32.7	-22.6	43.43	54	-10.57	-	-	0-360	201	V
3	2.977	41.81	PK	32.6	-23.2	51.21	54	-2.79	74	-22.79	0-360	200	H
10	2.974	33.12	Avg	32.6	-23.2	42.52	54	-11.48	-	-	0-360	200	H

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/3GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	4.005	39.36	PK	33.8	-31.4	41.76	54	-12.24	74	-32.24	0-360	200	H
7	9.453	33.88	PK	36.5	-23.1	47.28	54	-6.72	74	-26.72	0-360	101	V

PK - Peak detector

Avg - Video bandwidth < Resolution bandwidth

LOW CHANNEL 2417



LOW CHANNEL 2417 DATA

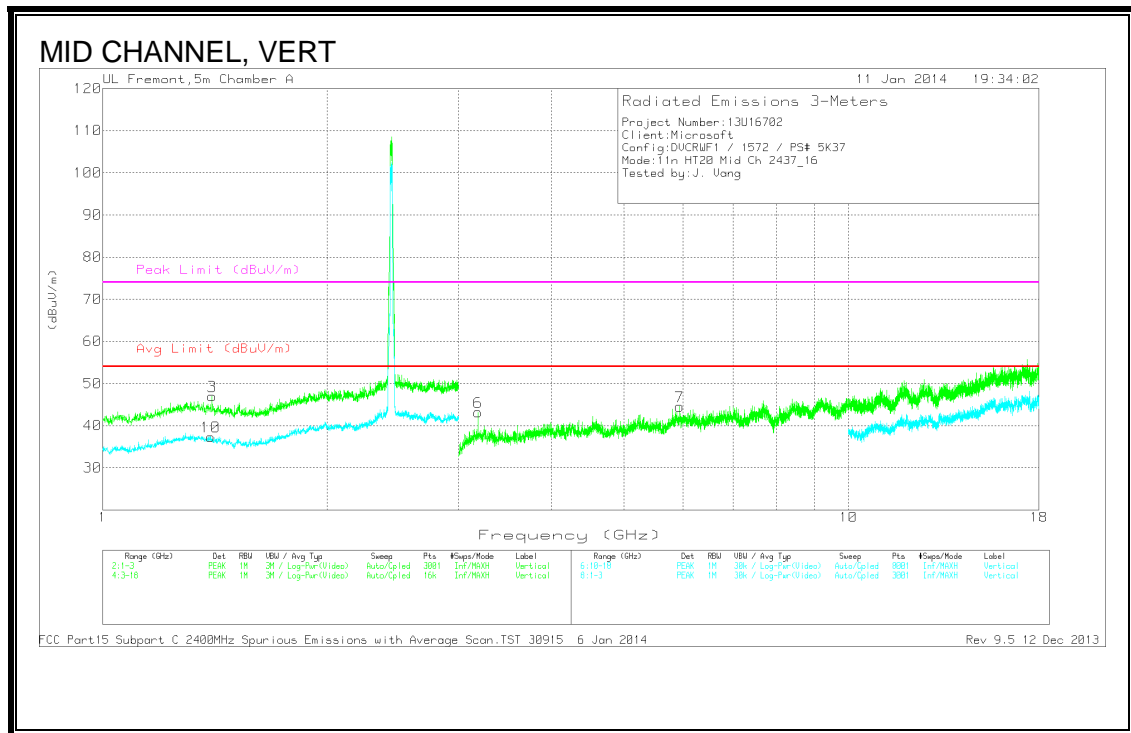
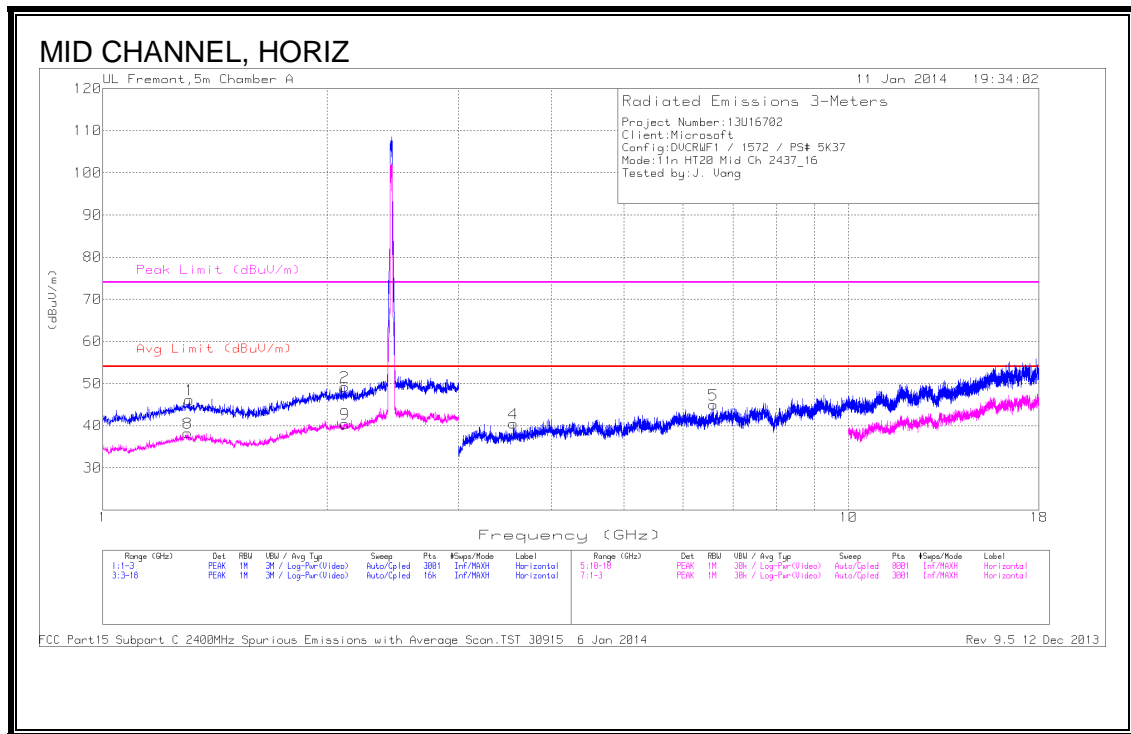
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/10dB Pad	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.4	42.54	PK	29.8	-26.6	45.74	54	-8.26	74	-28.26	0-360	200	H
7	1.402	33.76	Avg	29.8	-26.6	36.96	54	-17.04	-	-	0-360	101	H
3	1.929	47.96	PK	31.8	-25.4	54.36	-	-	74	-19.64	0-360	101	V
9	1.93	32.8	Avg	31.8	-25.4	39.2	54	-14.8	-	-	0-360	100	V
4	2.502	44.08	PK	32.6	-23.7	52.98	54	-1.02	74	-21.02	0-360	101	V
10	2.503	34.79	Avg	32.6	-23.7	43.69	54	-10.31	-	-	0-360	200	V
2	2.551	42.28	PK	32.7	-23.1	51.88	54	-2.12	74	-22.12	0-360	200	H
8	2.55	33.83	Avg	32.7	-23.1	43.43	54	-10.57	-	-	0-360	101	H

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/3GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	3.935	38.14	PK	33.7	-30.3	41.54	54	-12.46	74	-32.46	0-360	101	H
6	6.368	36.82	PK	35.5	-28	44.32	54	-9.68	74	-29.68	0-360	101	V

PK - Peak detector

Avg - Video bandwidth < Resolution bandwidth

MID CHANNEL



MID CHANNEL DATA

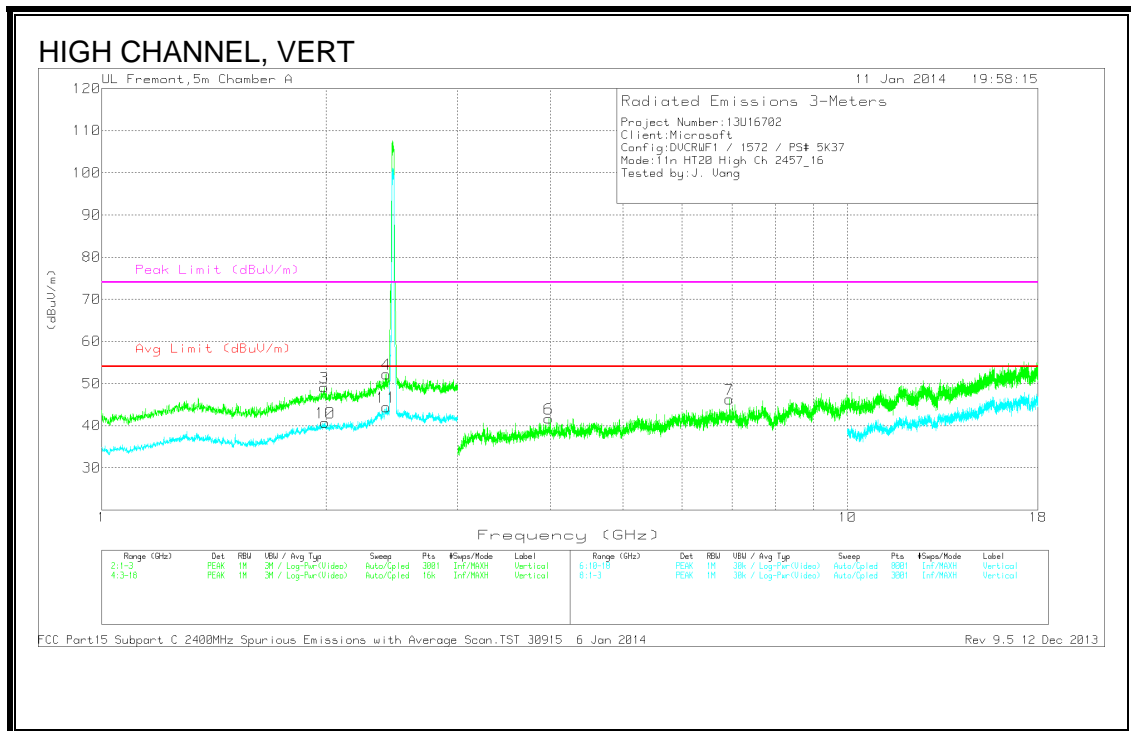
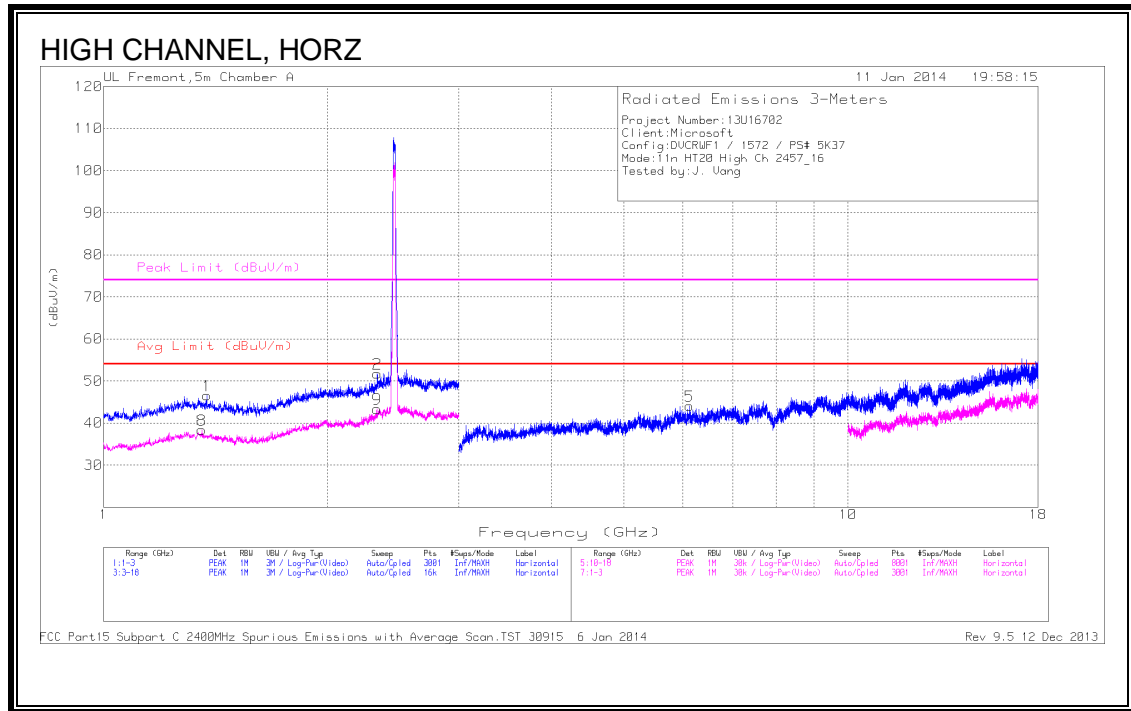
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/10dB Pad	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.307	42.85	PK	30.3	-27	46.15	54	-7.85	74	-27.85	0-360	200	H
8	1.3	34.67	Avg	30.3	-26.7	38.27	54	-15.73	-	-	0-360	200	H
3	1.401	43.8	PK	29.8	-26.6	47	54	-7	74	-27	0-360	200	V
10	1.395	33.97	Avg	29.8	-26.4	37.37	54	-16.63	-	-	0-360	101	V
2	2.11	42.06	PK	31.6	-24.4	49.26	54	-4.74	74	-24.74	0-360	100	H
9	2.112	33.14	Avg	31.6	-24.3	40.44	54	-13.56	-	-	0-360	200	H

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/3GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	3.186	41.31	PK	33.5	-31.6	43.21	54	-10.79	74	-30.79	0-360	101	V
4	3.553	38.39	PK	33.1	-31	40.49	54	-13.51	74	-33.51	0-360	100	H
7	5.94	37.74	PK	35.1	-28.3	44.54	54	-9.46	74	-29.46	0-360	201	V
5	6.586	36.39	PK	35.5	-26.9	44.99	54	-9.01	74	-29.01	0-360	200	H

PK - Peak detector

Avg - Video bandwidth < Resolution bandwidth

HIGH CHANNEL 2457



HIGH CHANNEL DATA 2457

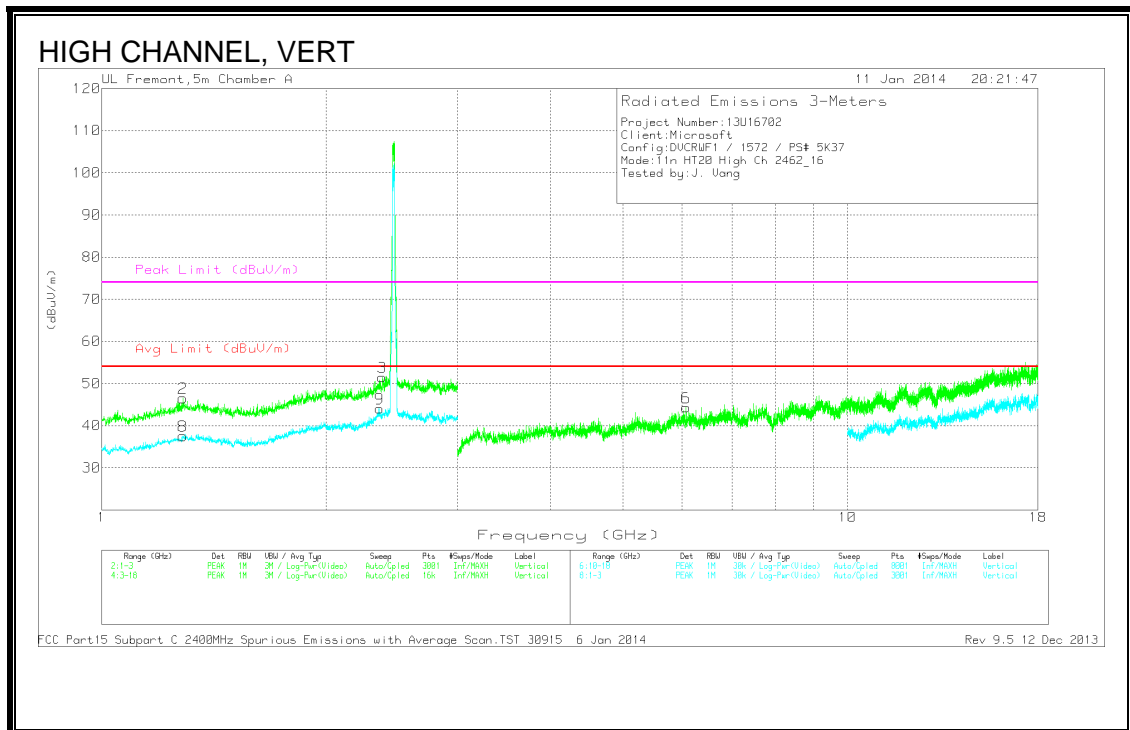
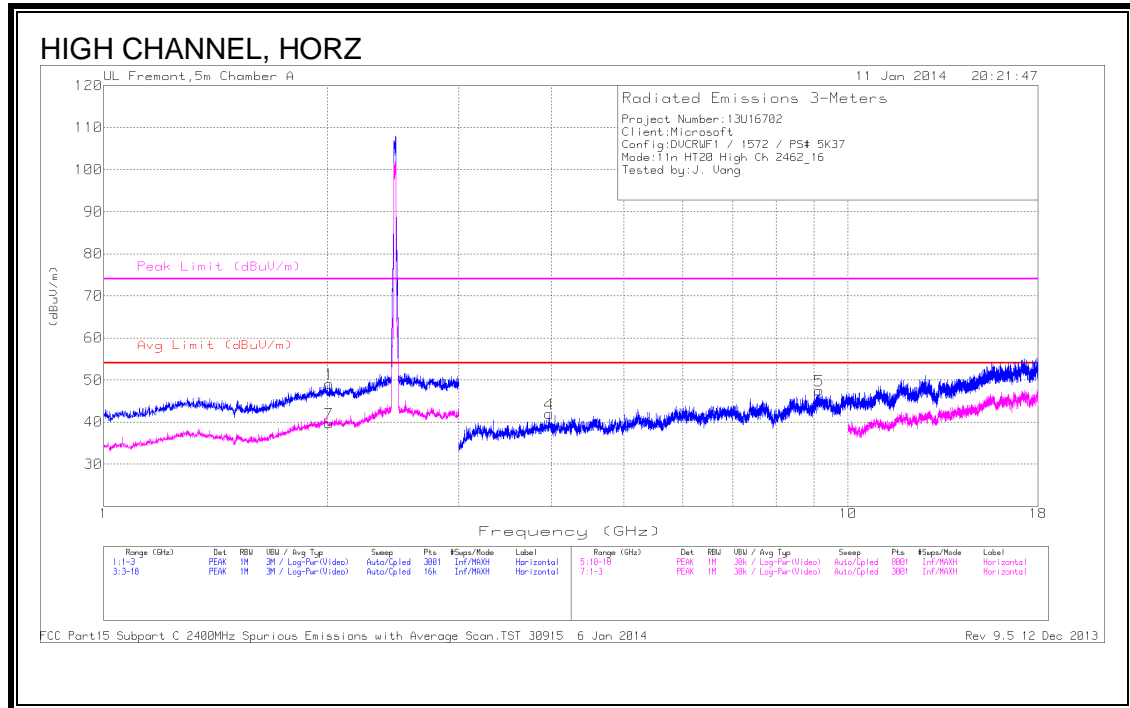
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/10dB Pad	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.376	43.29	PK	29.9	-26.6	46.59	54	-7.41	74	-27.41	0-360	200	H
8	1.355	34.99	Avg	30	-26.6	38.39	54	-15.61	-	-	0-360	101	H
3	1.987	41.52	PK	31.9	-24.3	49.12	54	-4.88	74	-24.88	0-360	100	V
10	1.993	33.43	Avg	31.9	-24.6	40.73	54	-13.27	-	-	0-360	200	V
2	2.331	44.25	PK	31.8	-24.3	51.75	54	-2.25	74	-22.25	0-360	200	H
9	2.331	35.87	Avg	31.8	-24.3	43.37	54	-10.63	-	-	0-360	200	H
4	2.407	43.73	PK	32.1	-23.6	52.23	54	-1.77	74	-21.77	0-360	100	V
11	2.407	35.91	Avg	32.1	-23.6	44.41	54	-9.59	-	-	0-360	200	V

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/3GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	3.975	38.18	PK	33.8	-30.3	41.68	54	-12.32	74	-32.32	0-360	200	V
5	6.122	37.38	PK	35.3	-28.6	44.08	54	-9.92	74	-29.92	0-360	100	H
7	6.943	38.36	PK	35.4	-27.5	46.26	54	-7.74	74	-27.74	0-360	100	V

PK - Peak detector

Avg - Video bandwidth < Resolution bandwidth

HIGH CHANNEL



HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/10dB Pad	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	1.284	43.23	PK	30.2	-26.9	46.53	54	-7.47	74	-27.47	0-360	201	V
8	1.284	34.25	Avg	30.2	-26.9	37.55	54	-16.45	-	-	0-360	201	V
1	2.009	42.49	PK	31.9	-25.3	49.09	54	-4.91	74	-24.91	0-360	200	H
7	2.008	33.15	Avg	31.9	-25.3	39.75	54	-14.25	-	-	0-360	200	H
3	2.377	43.43	PK	32	-23.9	51.53	54	-2.47	74	-22.47	0-360	201	V
9	2.357	35.98	Avg	31.9	-23.8	44.08	54	-9.92	-	-	0-360	201	V

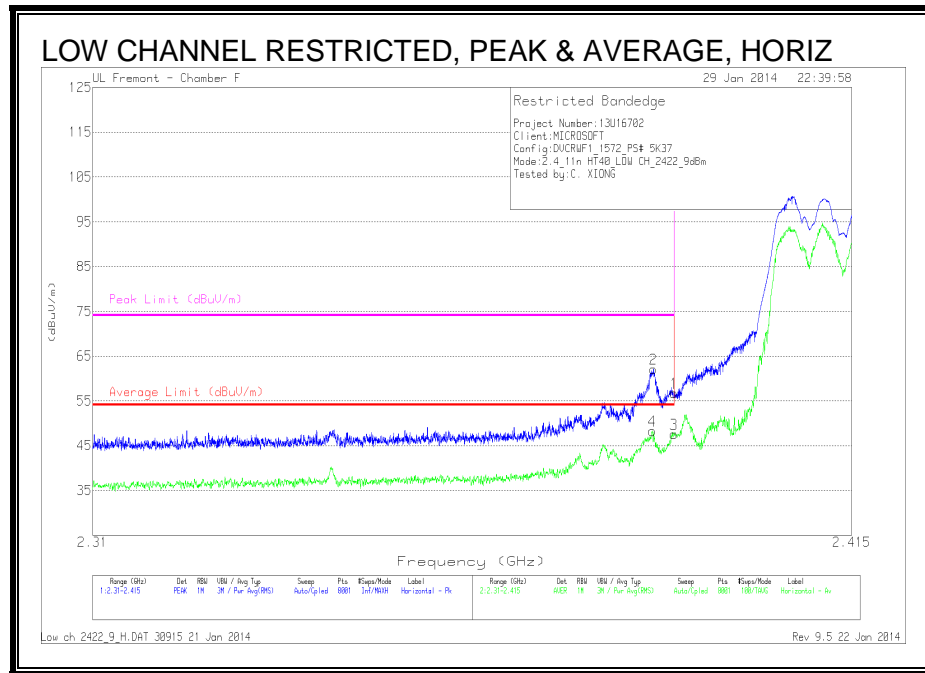
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/3GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	3.967	38.35	PK	33.8	-30.2	41.95	54	-12.05	74	-32.05	0-360	200	H
6	6.075	37.95	PK	35.3	-28.9	44.35	54	-9.65	74	-29.65	0-360	200	V
5	9.151	35.51	PK	36.1	-24.1	47.51	54	-6.49	74	-26.49	0-360	200	H

PK - Peak detector

Avg - Video bandwidth < Resolution bandwidth

8.7. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 2.4 GHz BAND

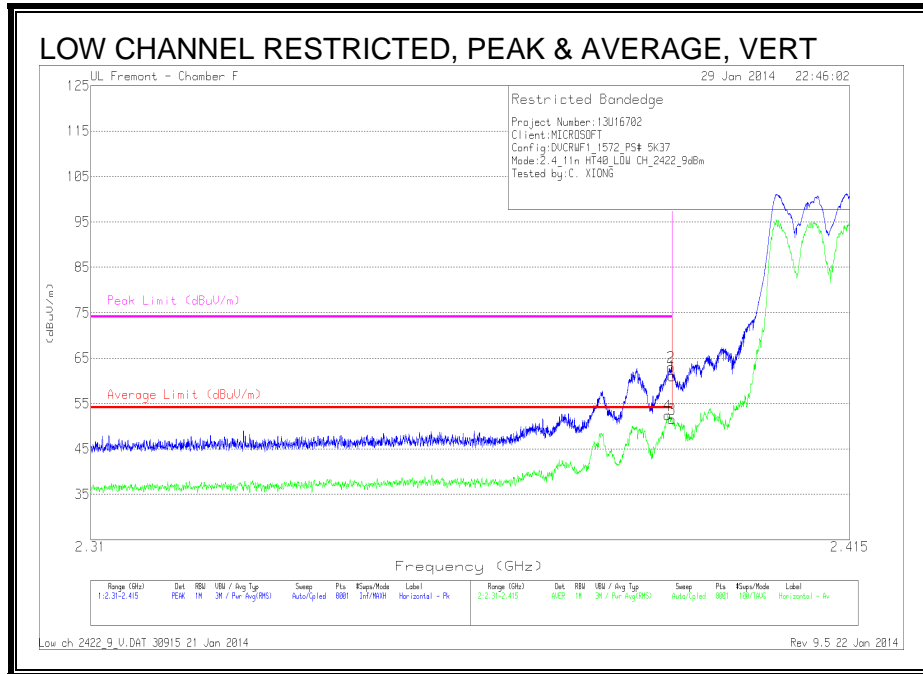
RESTRICTED BANDEDGE (LOW CHANNEL 2422)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/C bl/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	2.39	48.45	PK	32.1	-23.8	56.75	-	-	74	-17.25	254	205	H
2	2.387	53.83	PK	32.1	-23.8	62.13	-	-	74	-11.87	254	205	H
3	2.39	39.26	RMS	32.1	-23.8	47.56	54	-6.44	-	-	254	205	H
4	2.387	39.98	RMS	32.1	-23.8	48.28	54	-5.72	-	-	254	205	H

PK - Peak detector

RMS - RMS detection

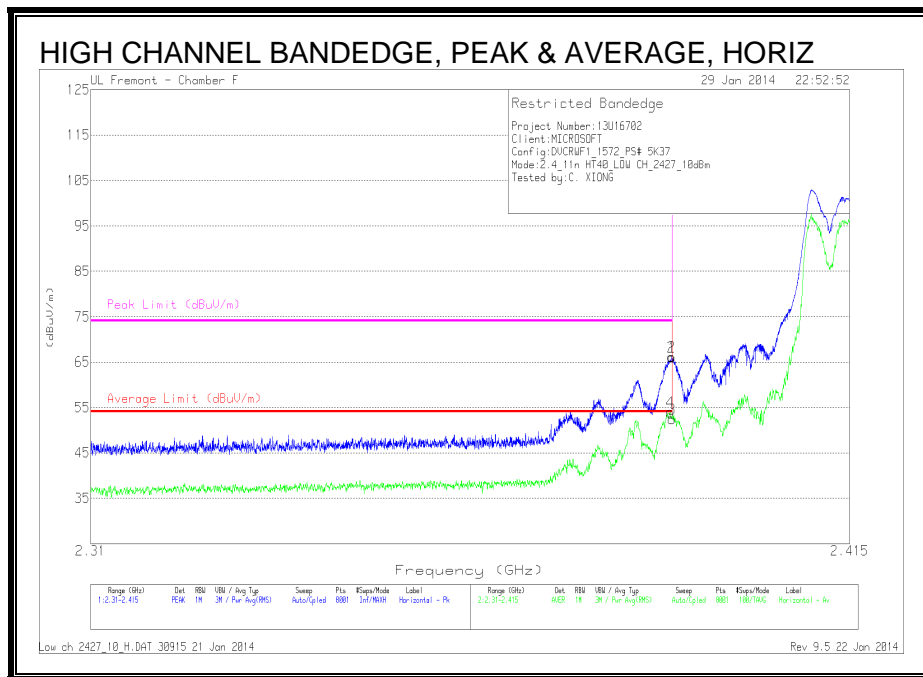


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.39	52.76	PK	32.1	-23.8	61.06	-	-	74	-12.94	309	252	V
2	2.39	54.74	PK	32.1	-23.8	63.04	-	-	74	-10.96	309	252	V
3	2.39	43.26	RMS	32.1	-23.8	51.56	54	-2.44	-	-	309	252	V
4	2.389	44.11	RMS	32.1	-23.8	52.41	54	-1.59	-	-	309	252	V

PK - Peak detector

RMS - RMS detection

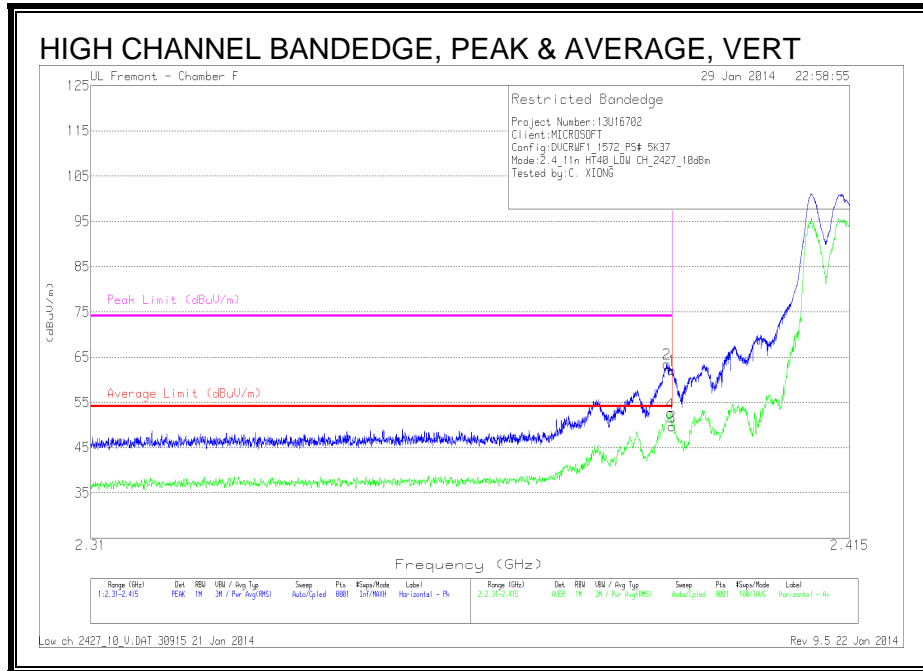
AUTHORIZED BANDEDGE (LOW CHANNEL 2427)



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	2.39	57.8	PK	32.1	-23.8	66.1	-	-	74	-7.9	275	134	H
2	2.39	57.89	PK	32.1	-23.8	66.19	-	-	74	-7.81	275	134	H
3	2.39	44.15	RMS	32.1	-23.8	52.45	54	-1.55	-	-	275	134	H
4	2.39	45.68	RMS	32.1	-23.8	53.98	54	-.02	-	-	275	134	H

PK - Peak detector

RMS - RMS detection

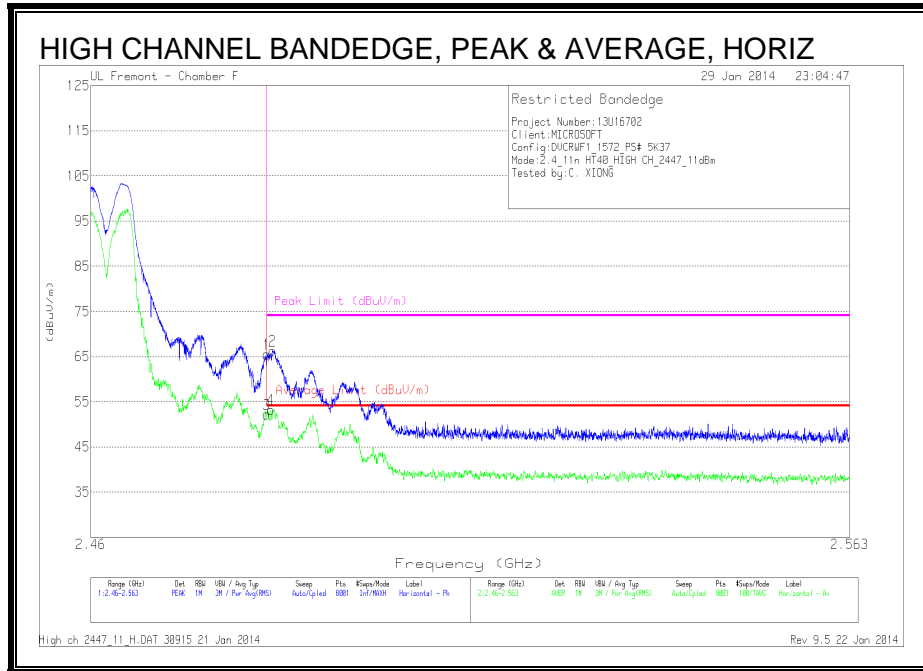


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.39	53.8	PK	32.1	-23.8	62.1	-	-	74	-11.9	301	127	V
2	2.389	55.2	PK	32.1	-23.8	63.5	-	-	74	-10.5	301	127	V
3	2.39	41.35	RMS	32.1	-23.8	49.65	54	-4.35	-	-	301	127	V
4	2.39	44.29	RMS	32.1	-23.8	52.59	54	-1.41	-	-	301	127	V

PK - Peak detector

RMS - RMS detection

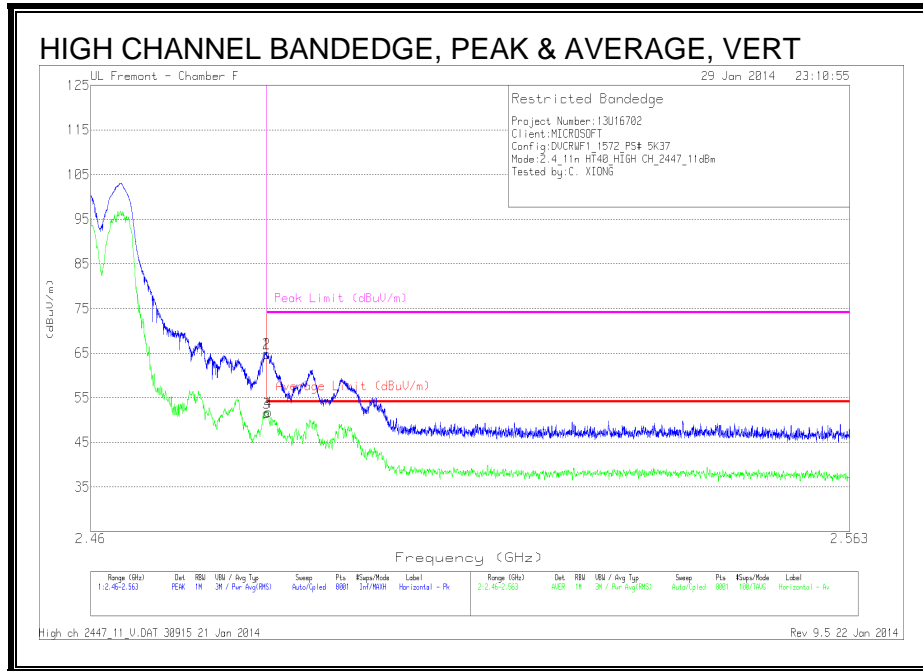
AUTHORIZED BANDEDGE (HIGH CHANNEL 2447)



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	2.484	56.12	PK	32.4	-23	65.52	-	-	74	-8.48	270	124	H
2	2.484	56.81	PK	32.4	-22.9	66.31	-	-	74	-7.69	270	124	H
3	2.484	42.82	RMS	32.4	-23	52.22	54	-1.78	-	-	270	124	H
4	2.484	43.72	RMS	32.4	-22.9	53.22	54	-0.78	-	-	270	124	H

PK - Peak detector

RMS - RMS detection

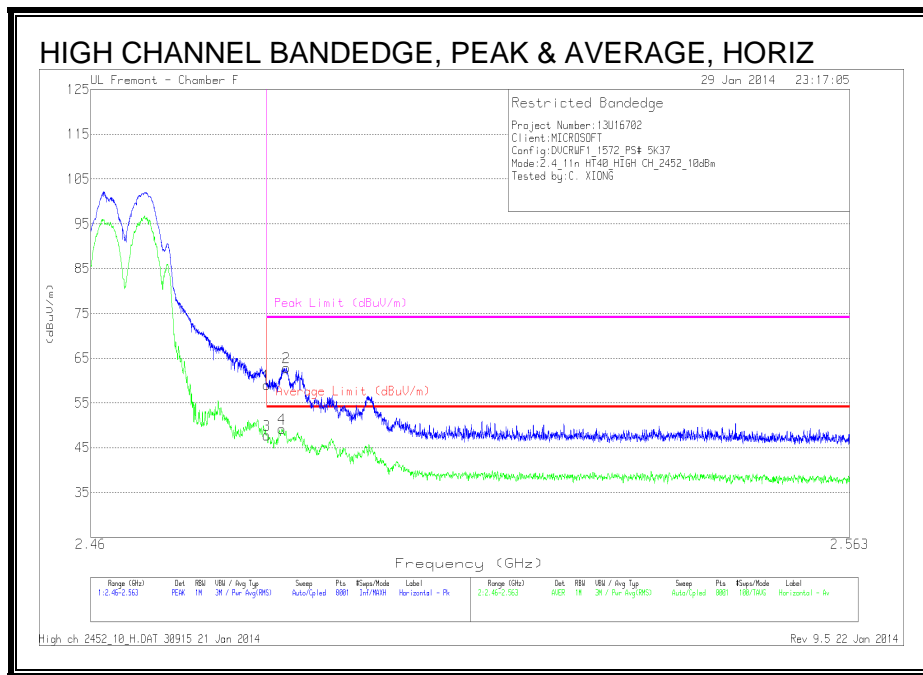


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	55.5	PK	32.4	-23	64.9	-	-	74	-9.1	304	115	V
2	2.484	55.5	PK	32.4	-23	64.9	-	-	74	-9.1	304	115	V
3	2.484	42.18	RMS	32.4	-23	51.58	54	-2.42	-	-	304	115	V
4	2.484	42.37	RMS	32.4	-23	51.77	54	-2.23	-	-	304	115	V

PK - Peak detector

RMS - RMS detection

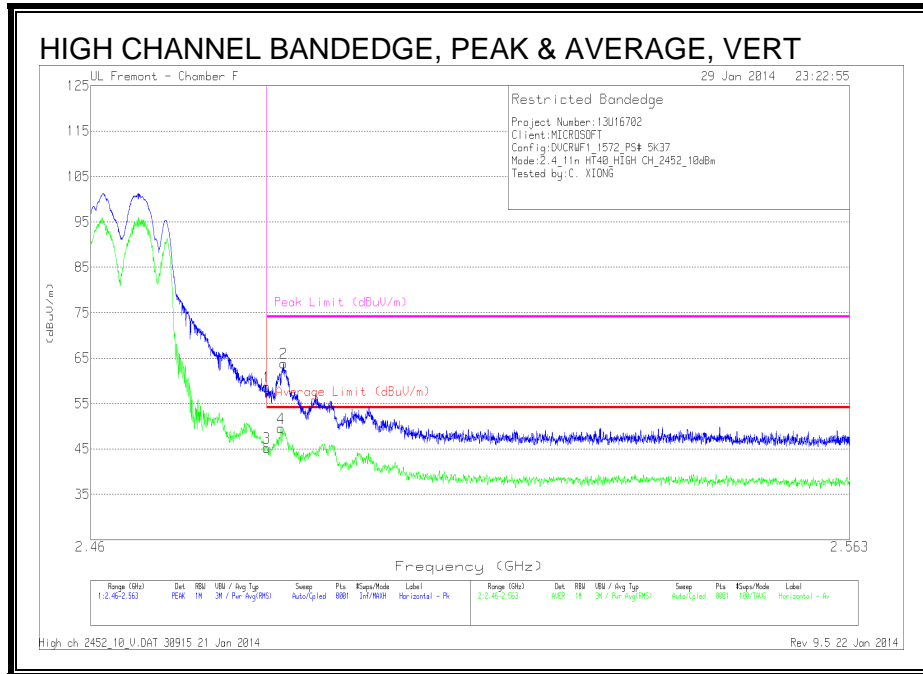
AUTHORIZED BANDEDGE (HIGH CHANNEL 2452)



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	2.484	49.6	PK	32.4	-23	59	-	-	74	-15	274	126	H
2	2.486	53.38	PK	32.4	-22.9	62.88	-	-	74	-11.12	274	126	H
3	2.484	38.34	RMS	32.4	-23	47.74	54	-6.26	-	-	274	126	H
4	2.486	39.7	RMS	32.4	-22.9	49.2	54	-4.8	-	-	274	126	H

PK - Peak detector

RMS - RMS detection



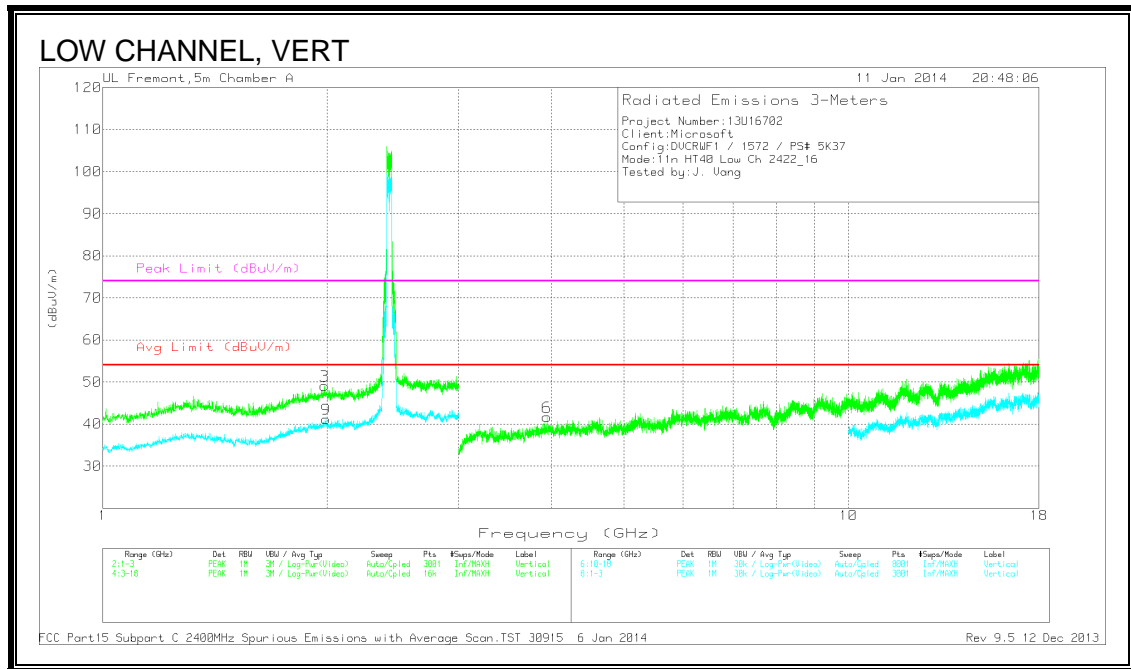
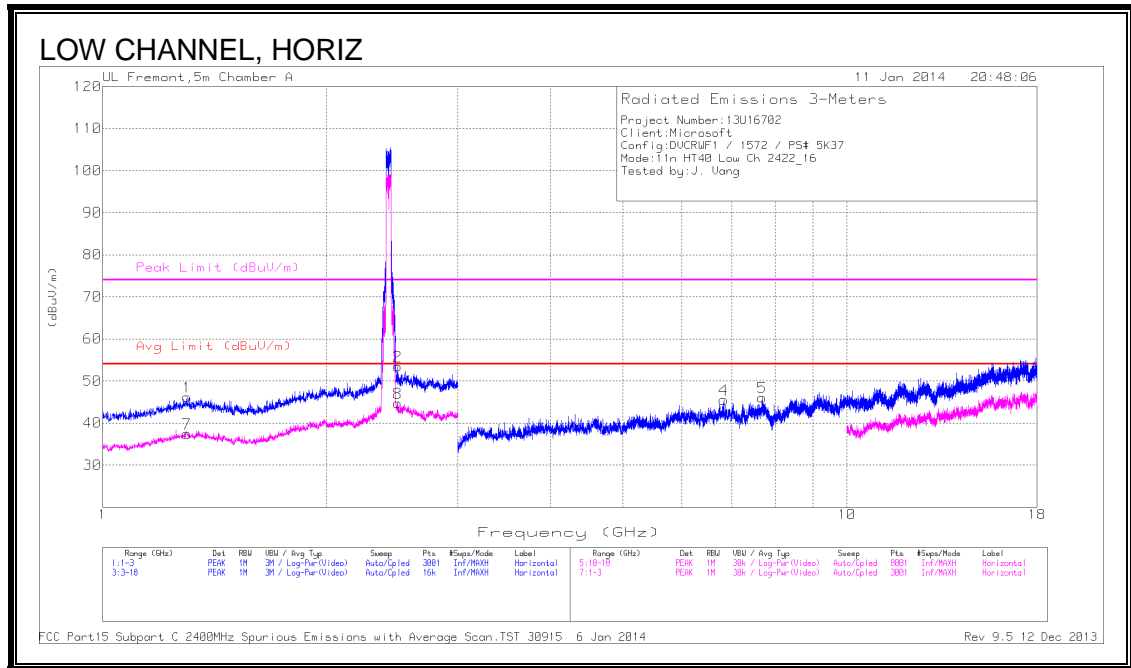
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	49.27	PK	32.4	-23	58.67	-	-	74	-15.33	304	112	V
2	2.486	54.38	PK	32.4	-22.9	63.88	-	-	74	-10.12	304	112	V
3	2.484	35.79	RMS	32.4	-23	45.19	54	-8.81	-	-	304	112	V
4	2.485	40.03	RMS	32.4	-22.9	49.53	54	-4.47	-	-	304	112	V

PK - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



LOW CHANNEL DATA

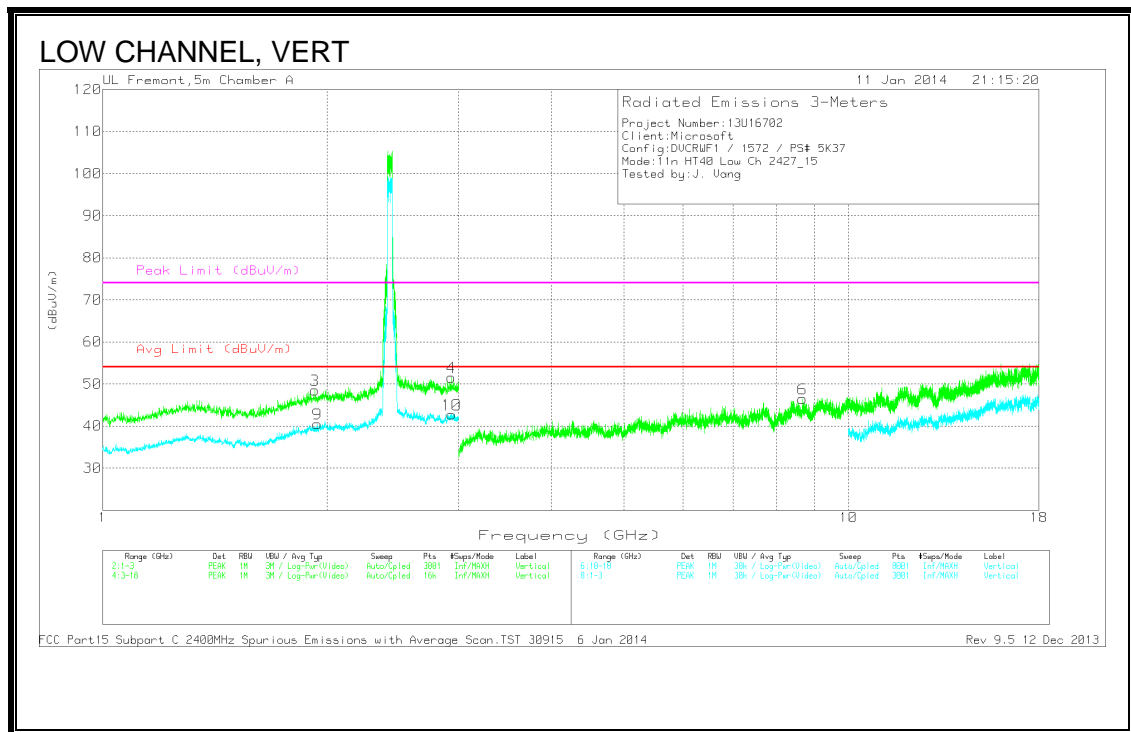
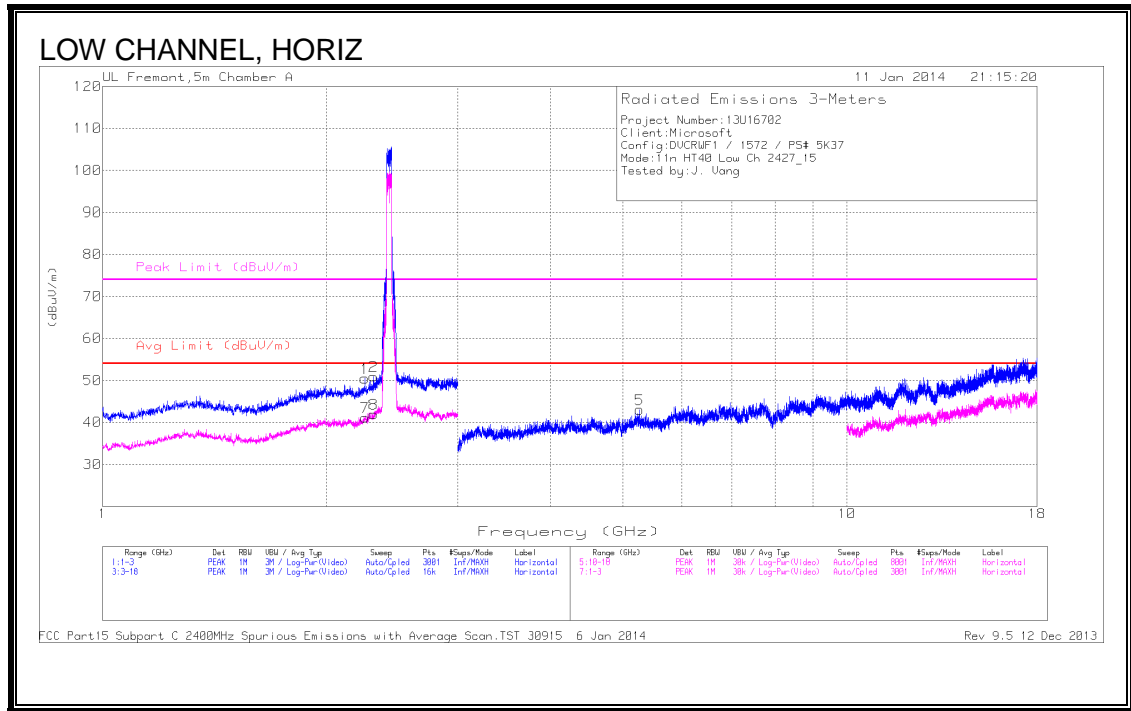
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/10dB Pad	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.299	42.53	PK	30.3	-26.6	46.23	54	-7.77	74	-27.77	0-360	101	H
7	1.297	33.71	Avg	30.3	-26.6	37.41	54	-16.59	-	-	0-360	101	H
3	1.983	41.7	PK	31.9	-24.5	49.1	54	-4.9	74	-24.9	0-360	201	V
9	1.993	33.9	Avg	31.9	-24.6	41.2	54	-12.8	-	-	0-360	201	V
2	2.492	44.39	PK	32.6	-23.5	53.49	54	-.51	74	-20.51	0-360	101	H
8	2.492	35.62	Avg	32.6	-23.5	44.72	54	-9.28	-	-	0-360	101	H

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/3GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	3.941	37.97	PK	33.7	-30	41.67	54	-12.33	74	-32.33	0-360	101	V
4	6.83	37.83	PK	35.4	-27.7	45.53	54	-8.47	74	-28.47	0-360	100	H
5	7.693	35.1	PK	35.5	-24.5	46.1	54	-7.9	74	-27.9	0-360	200	H

PK - Peak detector

Avg - Video bandwidth < Resolution bandwidth

LOW CHANNEL 2427



LOW CHANNEL DATA 2427

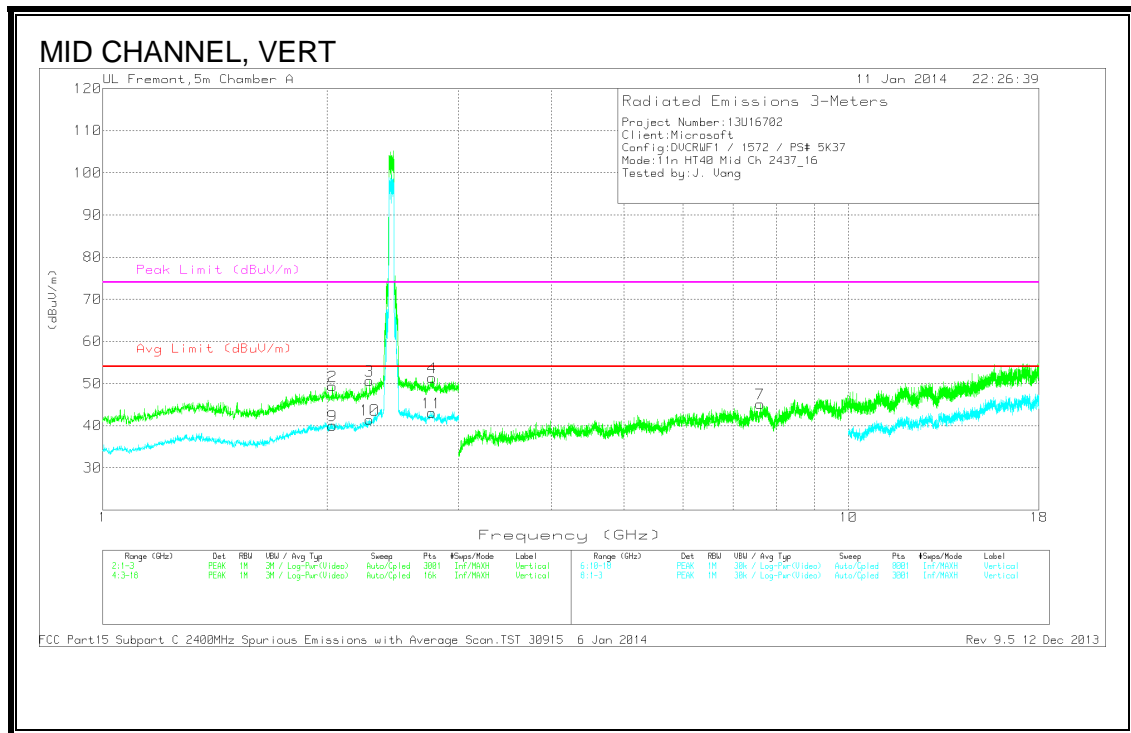
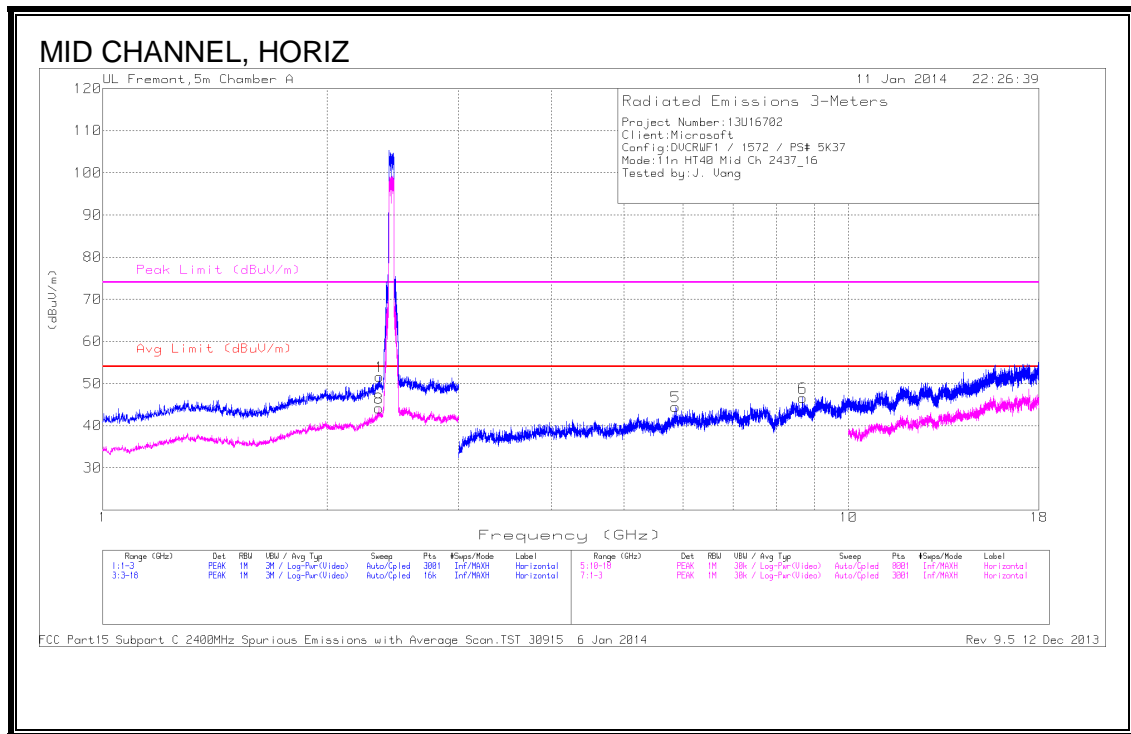
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/10dB Pad	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	1.925	42.03	PK	31.8	-25.3	48.53	54	-5.47	74	-25.47	0-360	200	V
9	1.94	34.15	Avg	31.8	-25.4	40.55	54	-13.45	-	-	0-360	201	V
1	2.25	43.1	PK	31.6	-24.2	50.5	54	-3.5	74	-23.5	0-360	100	H
7	2.251	33.79	Avg	31.6	-24.2	41.19	54	-12.81	-	-	0-360	200	H
2	2.311	43.99	PK	31.7	-24.7	50.99	54	-3.01	74	-23.01	0-360	200	H
8	2.313	35.01	Avg	31.7	-24.7	42.01	54	-11.99	-	-	0-360	200	H
4	2.933	41.76	PK	32.5	-22.7	51.56	54	-2.44	74	-22.44	0-360	200	V
10	2.935	32.95	Avg	32.5	-22.7	42.75	54	-11.25	-	-	0-360	201	V

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/3GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	5.266	37.48	PK	34.3	-28.7	43.08	54	-10.92	74	-30.92	0-360	100	H
6	8.676	35.92	PK	35.8	-25.2	46.52	54	-7.48	74	-27.48	0-360	200	V

PK - Peak detector

Avg - Video bandwidth < Resolution bandwidth

MID CHANNEL



MID CHANNEL DATA

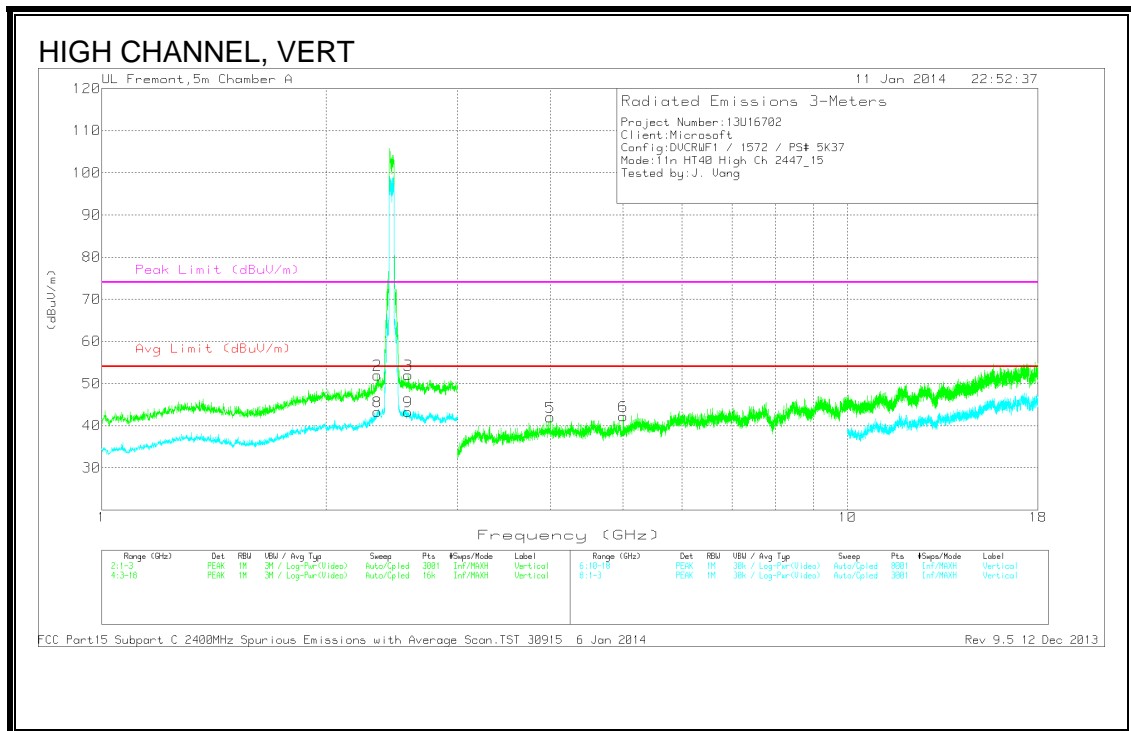
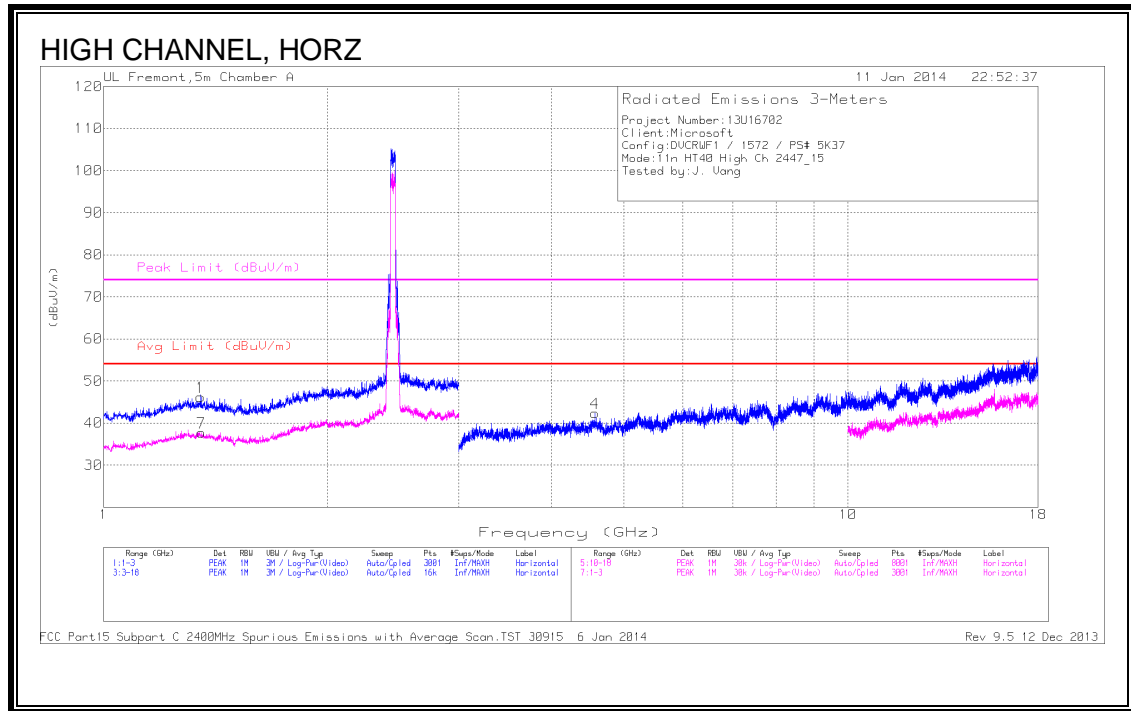
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/10dB Pad	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.033	42.49	PK	31.8	-24.9	49.39	54	-4.61	74	-24.61	0-360	201	V
9	2.033	33.13	Avg	31.8	-24.9	40.03	54	-13.97	-	-	0-360	201	V
3	2.278	43.54	PK	31.6	-24.5	50.64	54	-3.36	74	-23.36	0-360	201	V
10	2.279	34.31	Avg	31.6	-24.5	41.41	54	-12.59	-	-	0-360	201	V
1	2.351	43.47	PK	31.9	-23.7	51.67	54	-2.33	74	-22.33	0-360	200	H
8	2.346	36.15	Avg	31.8	-23.8	44.15	54	-9.85	-	-	0-360	200	H
4	2.765	41.5	PK	32.6	-22.7	51.4	54	-2.6	74	-22.6	0-360	100	V
11	2.761	33.08	Avg	32.6	-22.6	43.08	54	-10.92	-	-	0-360	101	V

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/3GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	5.862	37.21	PK	35	-27.7	44.51	54	-9.49	74	-29.49	0-360	200	H
7	7.612	36.86	PK	35.5	-27.2	45.16	54	-8.84	74	-28.84	0-360	100	V
6	8.686	35.9	PK	35.8	-25.1	46.6	54	-7.4	74	-27.4	0-360	100	H

PK - Peak detector

Avg - Video bandwidth < Resolution bandwidth

HIGH CHANNEL 2447



HIGH CHANNEL DATA 2447

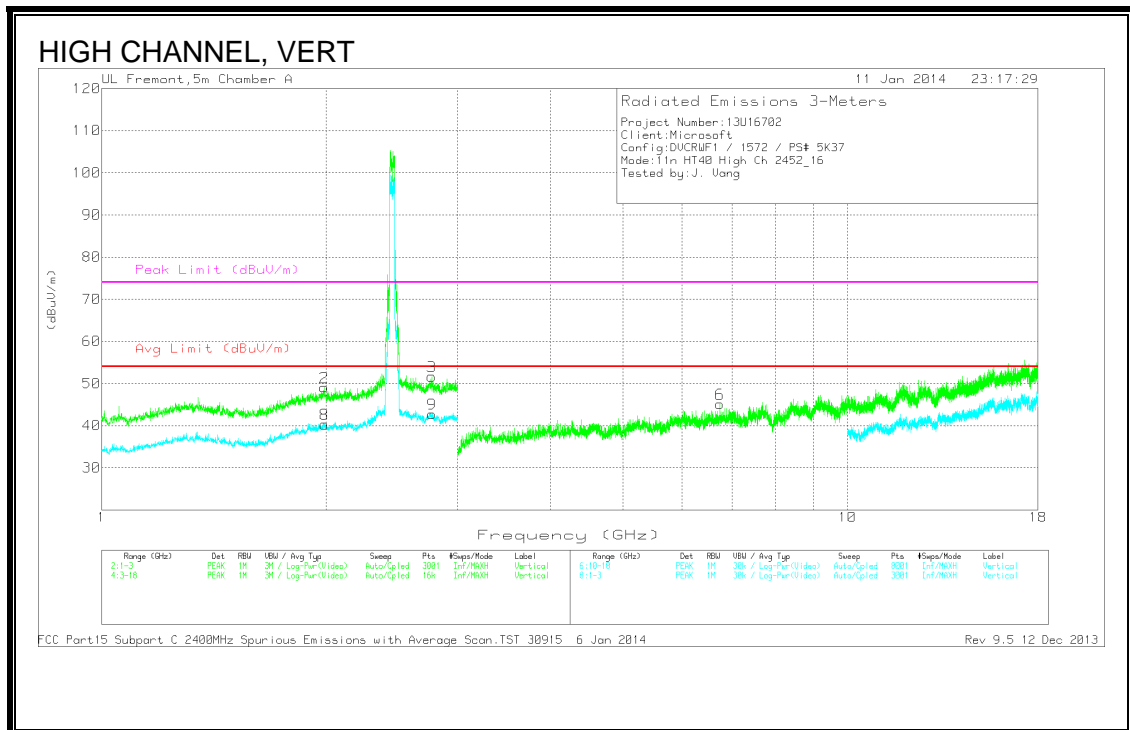
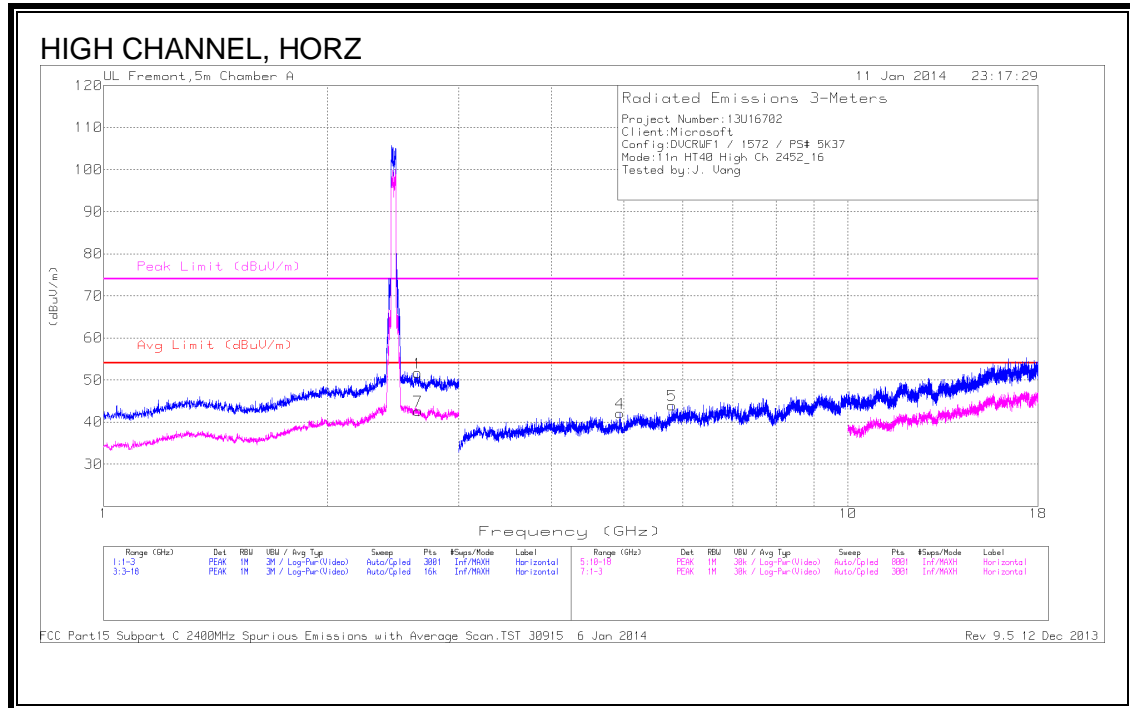
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/10dB Pad	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.349	42.59	PK	30.1	-26.5	46.19	54	-7.81	74	-27.81	0-360	200	H
7	1.353	34.24	Avg	30	-26.5	37.74	54	-16.26	-	-	0-360	101	H
2	2.342	43.97	PK	31.8	-23.8	51.97	54	-2.03	74	-22.03	0-360	201	V
8	2.342	35.31	Avg	31.8	-23.8	43.31	54	-10.69	-	-	0-360	201	V
3	2.576	42.64	PK	32.7	-23.3	52.04	54	-1.96	74	-21.96	0-360	101	V
9	2.573	33.82	Avg	32.7	-23.2	43.32	54	-10.68	-	-	0-360	201	V

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/3GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	3.995	39.22	PK	33.8	-31	42.02	54	-11.98	74	-31.98	0-360	101	V
4	4.57	36.97	PK	33.9	-28.5	42.37	54	-11.63	74	-31.63	0-360	200	H
6	5.003	38.25	PK	33.9	-29.9	42.25	54	-11.75	74	-31.75	0-360	200	V

PK - Peak detector

Avg - Video bandwidth < Resolution bandwidth

HIGH CHANNEL



HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/10dB Pad	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	1.988	41.5	PK	31.9	-24.3	49.1	54	-4.9	74	-24.9	0-360	101	V
8	1.989	32.83	Avg	31.9	-24.4	40.33	54	-13.67	-	-	0-360	200	V
1	2.643	42.28	PK	32.7	-23.3	51.68	54	-2.32	74	-22.32	0-360	200	H
7	2.645	33.32	Avg	32.7	-23.4	42.62	54	-11.38	-	-	0-360	200	H
3	2.77	41.78	PK	32.6	-22.7	51.68	54	-2.32	74	-22.32	0-360	200	V
9	2.771	32.9	Avg	32.6	-22.7	42.8	54	-11.2	-	-	0-360	101	V

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/3GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	4.941	36.91	PK	34	-28.8	42.11	54	-11.89	74	-31.89	0-360	200	H
5	5.802	38.09	PK	34.8	-28.9	43.99	54	-10.01	74	-30.01	0-360	101	H
6	6.74	36.62	PK	35.4	-26.9	45.12	54	-8.88	74	-28.88	0-360	100	V

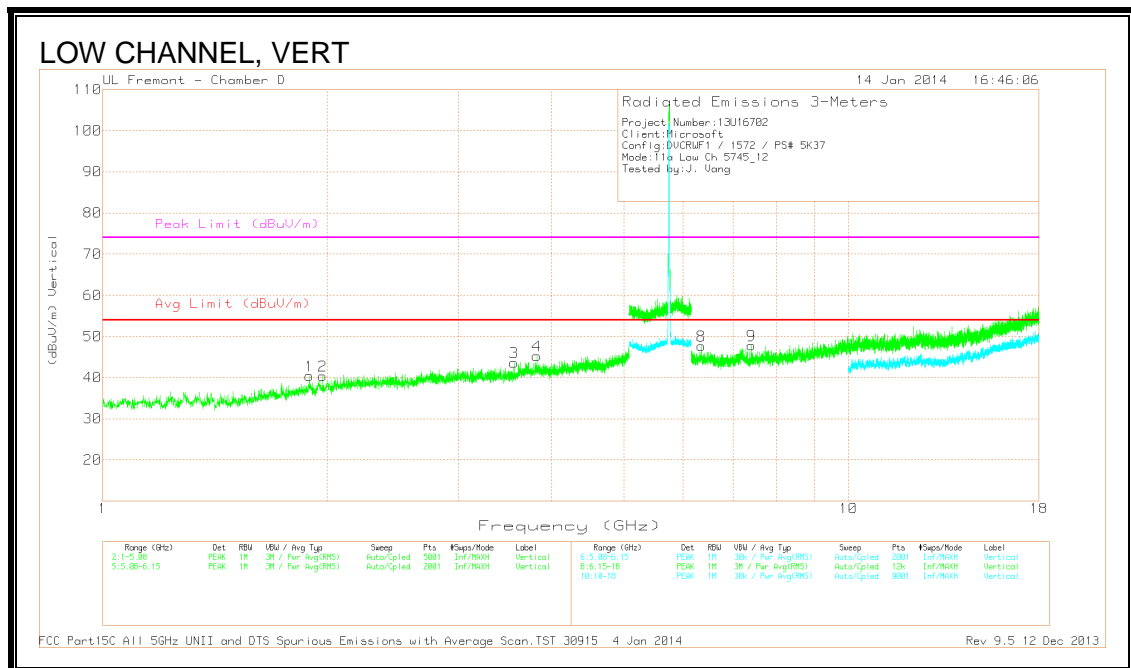
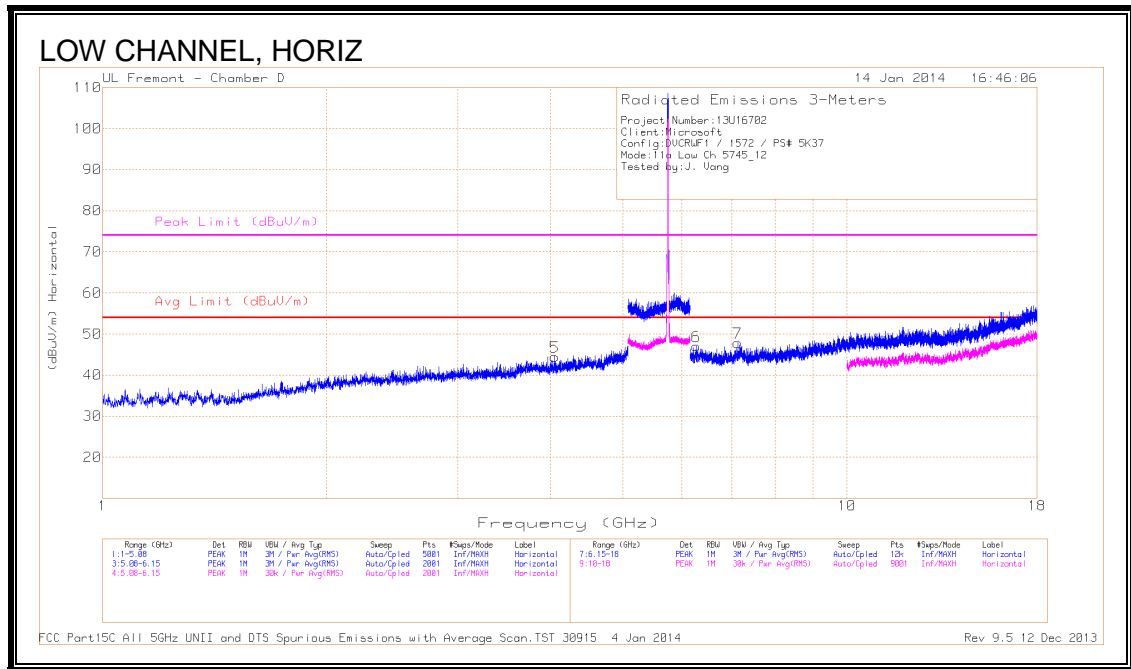
PK - Peak detector

Avg - Video bandwidth < Resolution bandwidth

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

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL

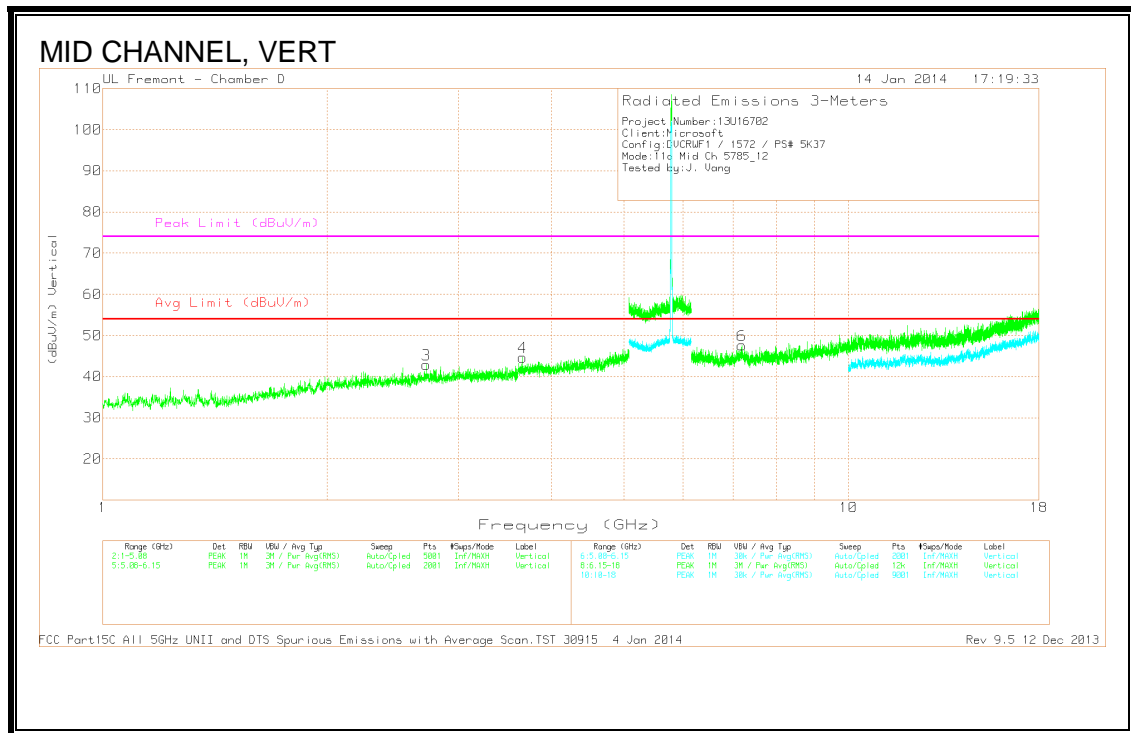
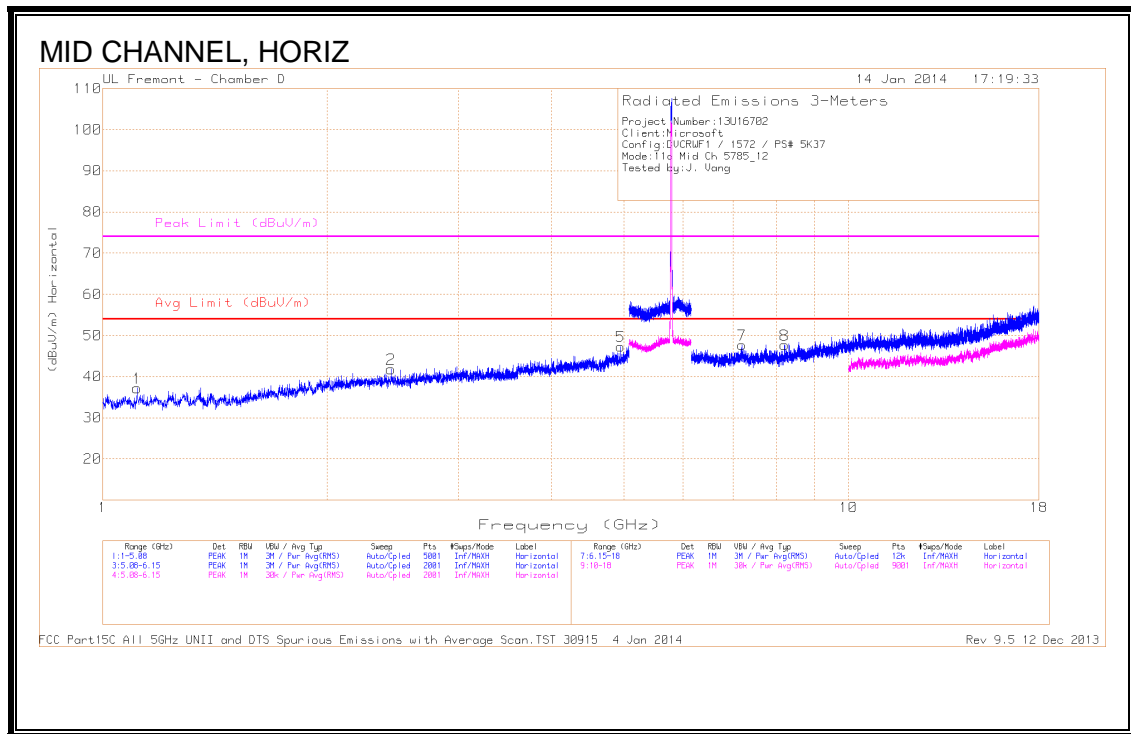


LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.893	39.75	PK	31	-30.3	40.45	54	-13.55	74	-33.55	0-360	100	V
2	1.972	39.33	PK	31.5	-30.4	40.43	54	-13.57	74	-33.57	0-360	201	V
3	3.56	39.29	PK	33.4	-29	43.69	54	-10.31	74	-30.31	0-360	100	V
4	3.82	40.32	PK	33.8	-28.8	45.32	54	-8.68	74	-28.68	0-360	100	V
5	4.049	38.93	PK	33.8	-28.3	44.43	54	-9.57	74	-29.57	0-360	201	H
6	6.272	37.33	PK	36	-26.3	47.03	54	-6.97	74	-26.97	0-360	201	H
8	6.351	37.39	PK	35.9	-25.6	47.69	54	-6.31	74	-26.31	0-360	100	V
7	7.13	36.56	PK	35.9	-24.6	47.86	54	-6.14	74	-26.14	0-360	100	H
9	7.41	36.93	PK	35.9	-25	47.83	54	-6.17	74	-26.17	0-360	100	V

PK - Peak detector

MID CHANNEL

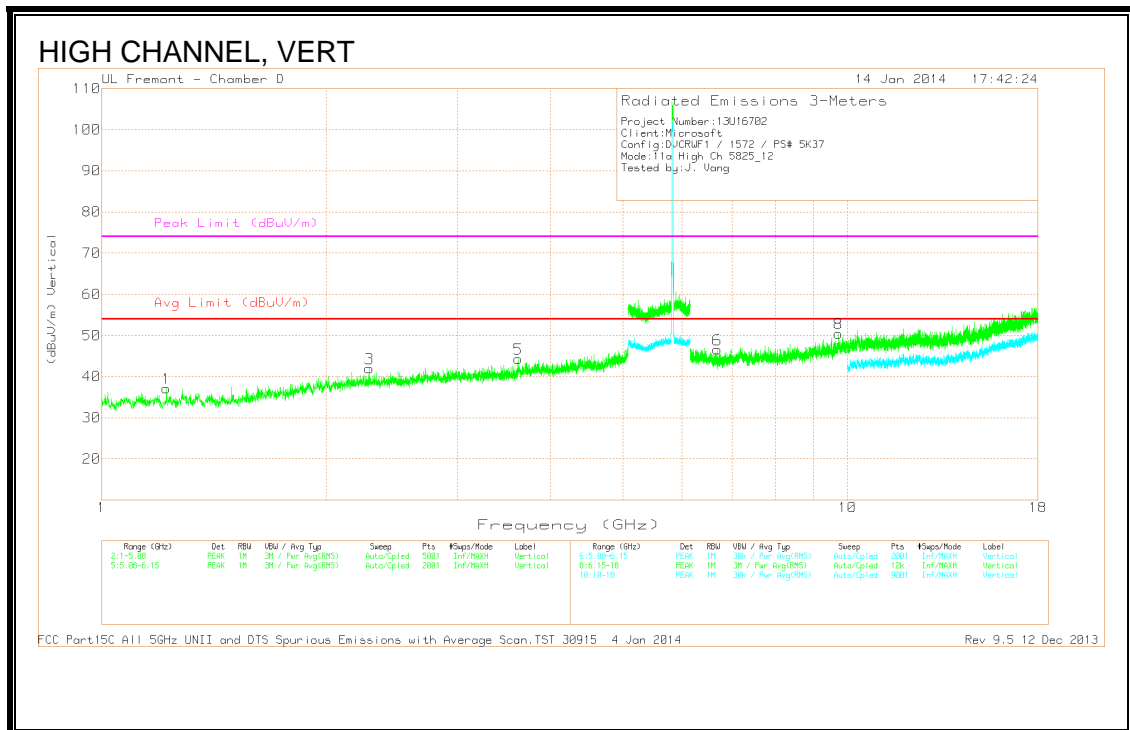
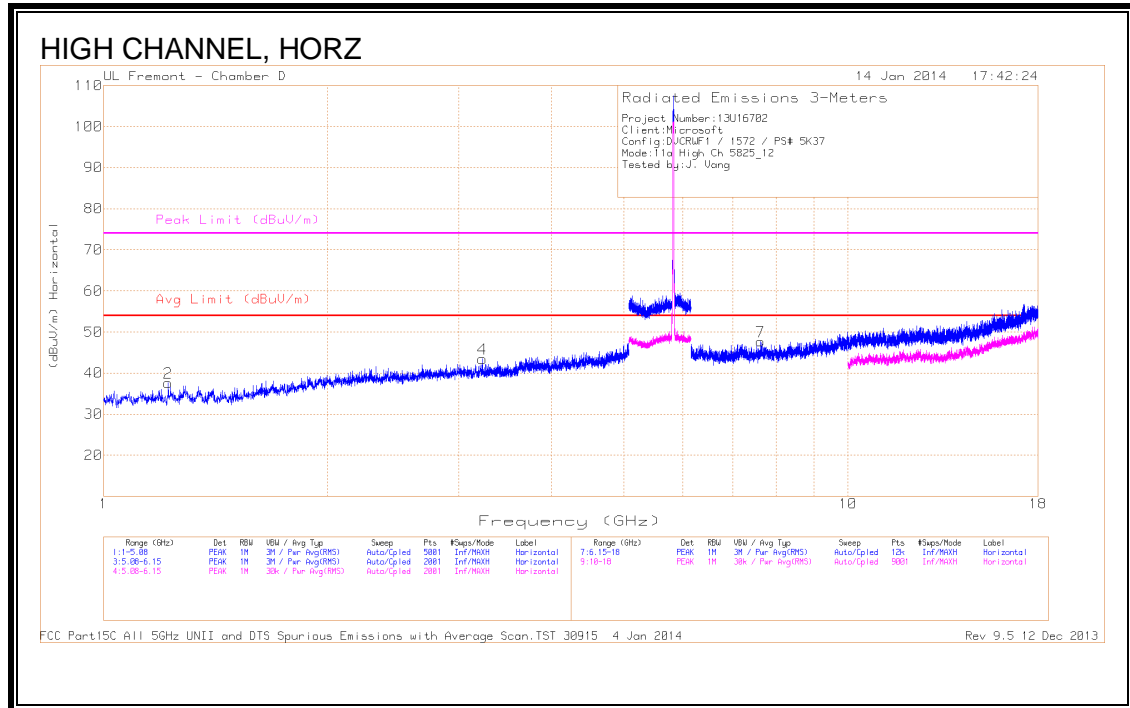


MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.112	40.82	PK	28.1	-31.7	37.22	54	-16.78	74	-36.78	0-360	100	H
2	2.435	39.53	PK	32.4	-30.1	41.83	54	-12.17	74	-32.17	0-360	201	H
3	2.716	39.61	PK	32.8	-29.5	42.91	54	-11.09	74	-31.09	0-360	100	V
4	3.654	39.68	PK	33.6	-28.6	44.68	54	-9.32	74	-29.32	0-360	100	V
5	4.949	39.23	PK	34.3	-26.2	47.33	54	-6.67	74	-26.67	0-360	201	H
6	7.194	35.53	PK	35.9	-23.8	47.63	54	-6.37	74	-26.37	0-360	201	V
7	7.2	35.61	PK	35.9	-23.8	47.71	54	-6.29	74	-26.29	0-360	201	H
8	8.208	36.38	PK	36	-24.7	47.68	54	-6.32	74	-26.32	0-360	201	H

PK - Peak detector

HIGH CHANNEL



HIGH CHANNEL DATA

Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.22	40.58	PK	28.5	-31.9	37.18	54	-16.82	74	-36.82	0-360	100	V
2	1.221	41.02	PK	28.5	-31.9	37.62	54	-16.38	74	-36.38	0-360	201	H
3	2.284	40.02	PK	32.4	-30.4	42.02	54	-11.98	74	-31.98	0-360	100	V
4	3.228	39.36	PK	33.3	-29.2	43.46	54	-10.54	74	-30.54	0-360	201	H
5	3.619	39.7	PK	33.5	-28.9	44.3	54	-9.7	74	-29.7	0-360	100	V
6	6.692	36.9	PK	35.7	-26	46.6	54	-7.4	74	-27.4	0-360	100	V
7	7.631	36.98	PK	36	-25.3	47.68	54	-6.32	74	-26.32	0-360	201	H
8	9.724	34.47	PK	37.4	-21.4	50.47	54	-3.53	74	-23.53	0-360	201	V

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
9.724	19.8	Av	37.4	-21.4	35.8	54	-18.2	-	-	335	189	V

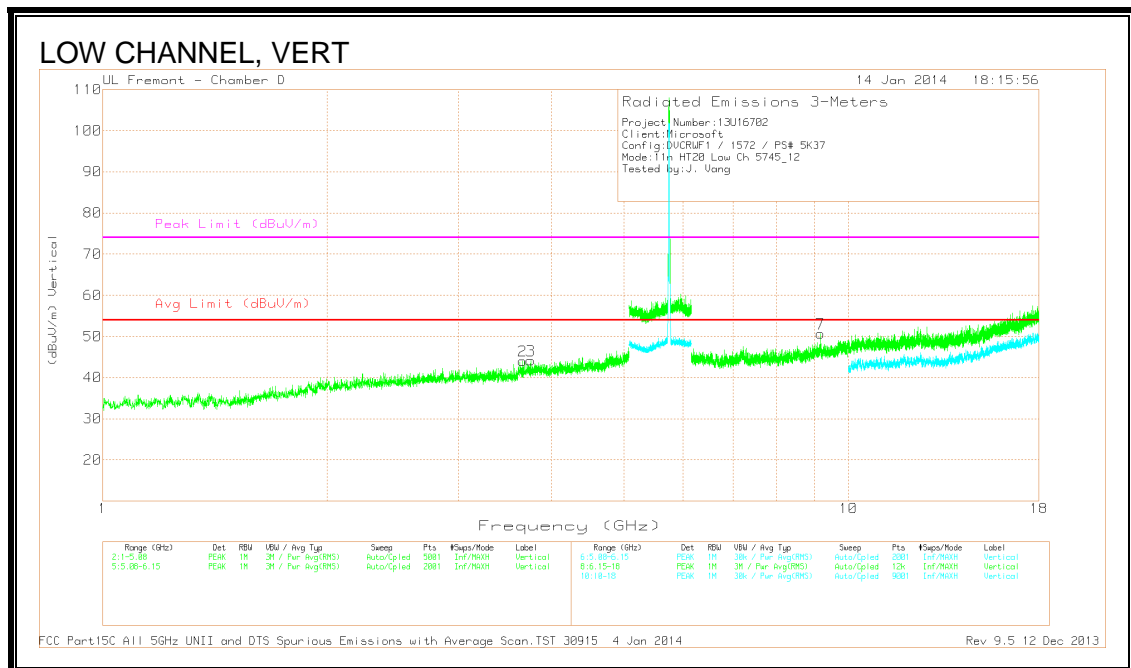
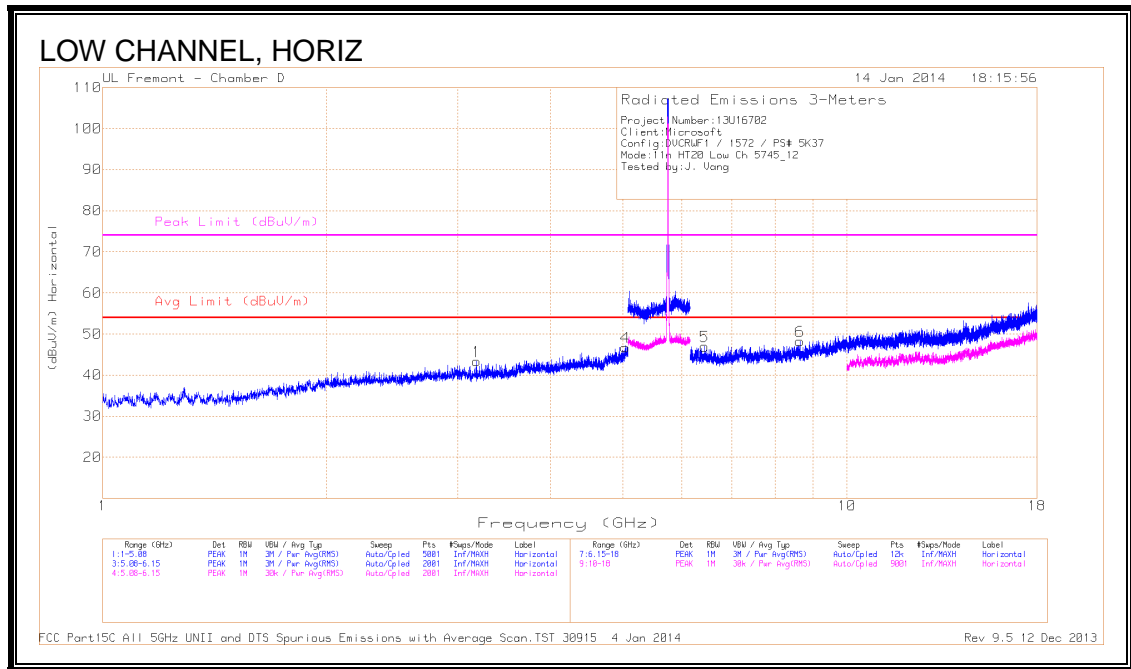
PK - Peak detector

Av - average detection

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

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



LOW CHANNEL DATA

Radiated Emissions

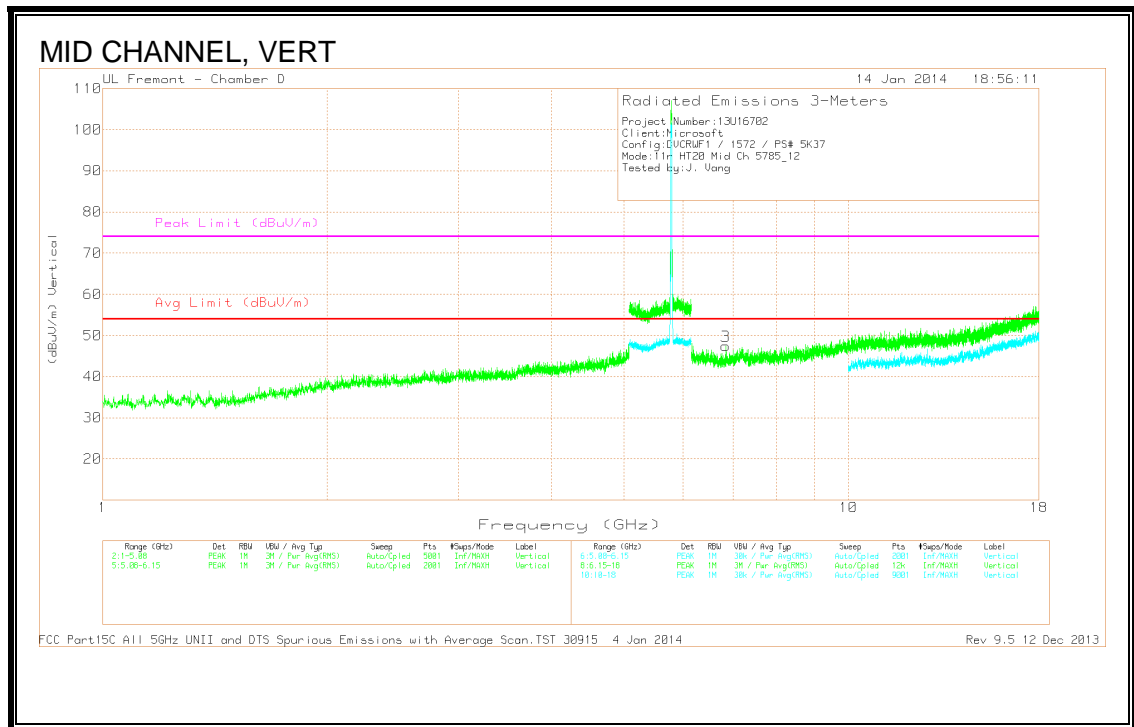
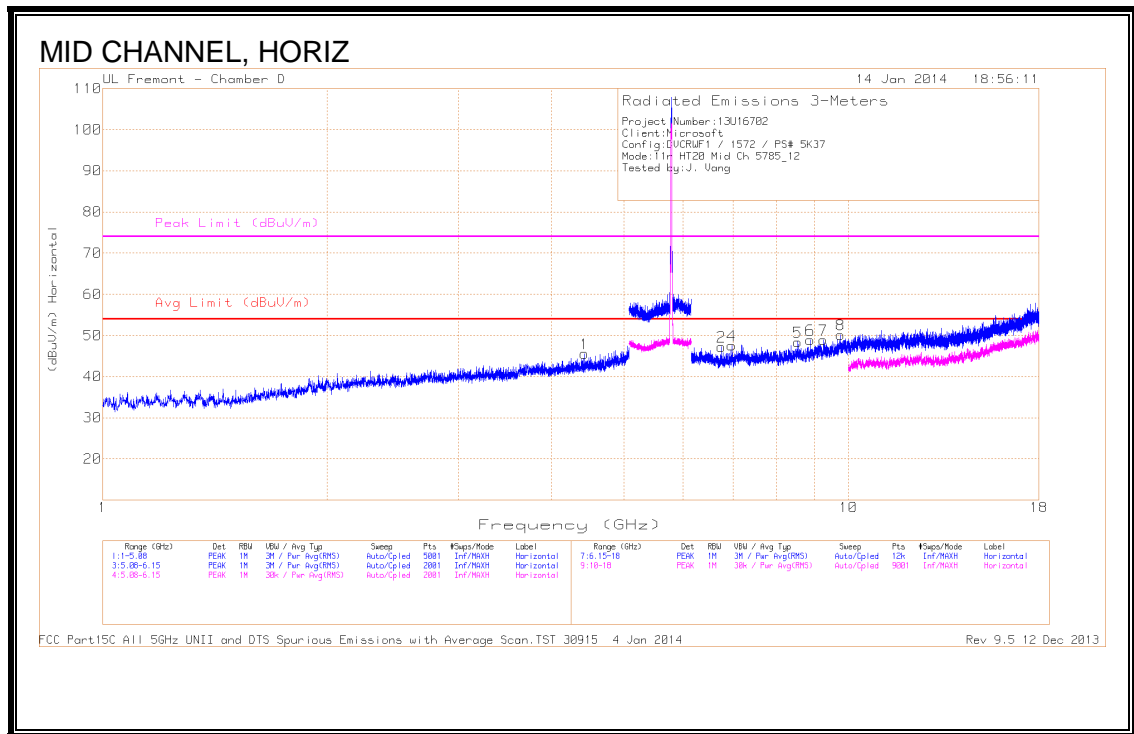
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/C bl/Fltr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.182	39.98	PK	33.2	-29.8	43.38	54	-10.62	74	-30.62	0-360	100	H
2	3.657	39.08	PK	33.6	-28.6	44.08	54	-9.92	74	-29.92	0-360	100	V
3	3.748	39.08	PK	33.8	-28.7	44.18	54	-9.82	74	-29.82	0-360	201	V
4	5.039	37.89	PK	34.4	-25.5	46.79	54	-7.21	74	-27.21	0-360	201	H
5	6.438	37.6	PK	35.8	-26.4	47	54	-7	74	-27	0-360	201	H
6	8.646	35.38	PK	36.3	-23.4	48.28	54	-5.72	74	-25.72	0-360	201	H
7	9.169	36.01	PK	36.8	-22.1	50.71	54	-3.29	74	-23.29	0-360	201	V

Frequency (GHz)	Meter Reading (dBuV)	Det	AFT344 (db/m)	Amp/C bl/Fltr/ Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
8.646	20.42	Av	36.3	-23.4	33.32	54	-20.68	-	-	131	362	H
9.169	20.24	Av	36.8	-22	35.04	54	-18.96	-	-	81	278	V

PK - Peak detector

Av - average detection

MID CHANNEL



MID CHANNEL DATA

Radiated Emissions

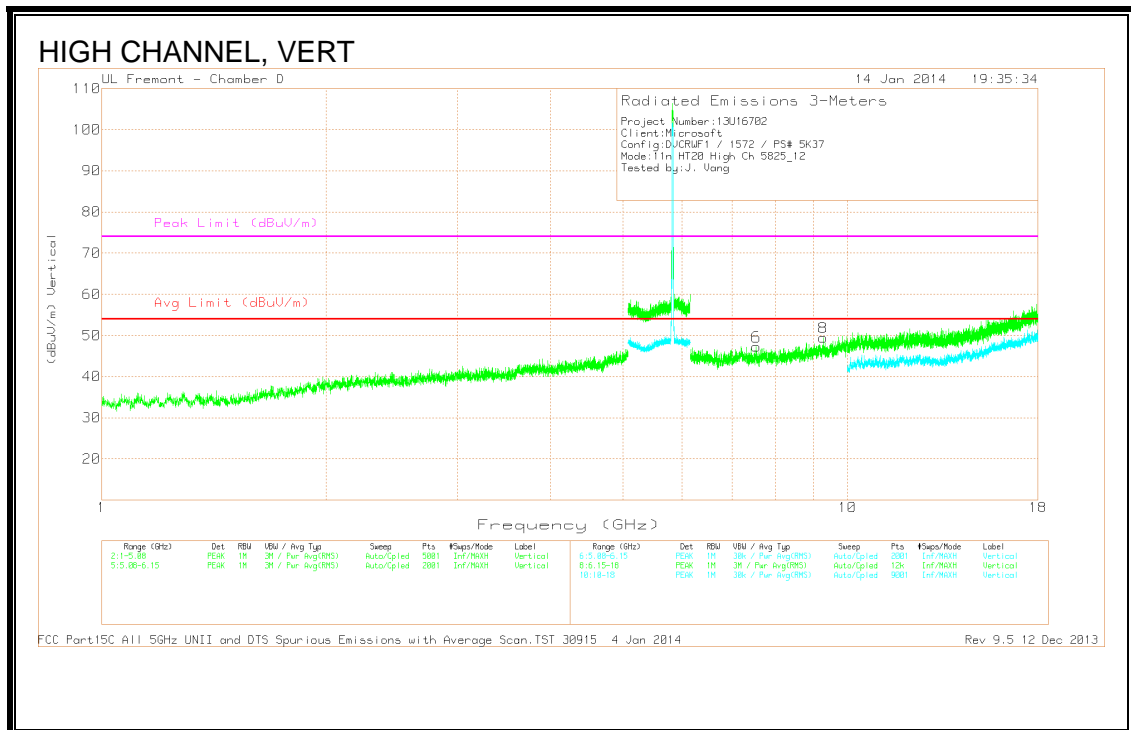
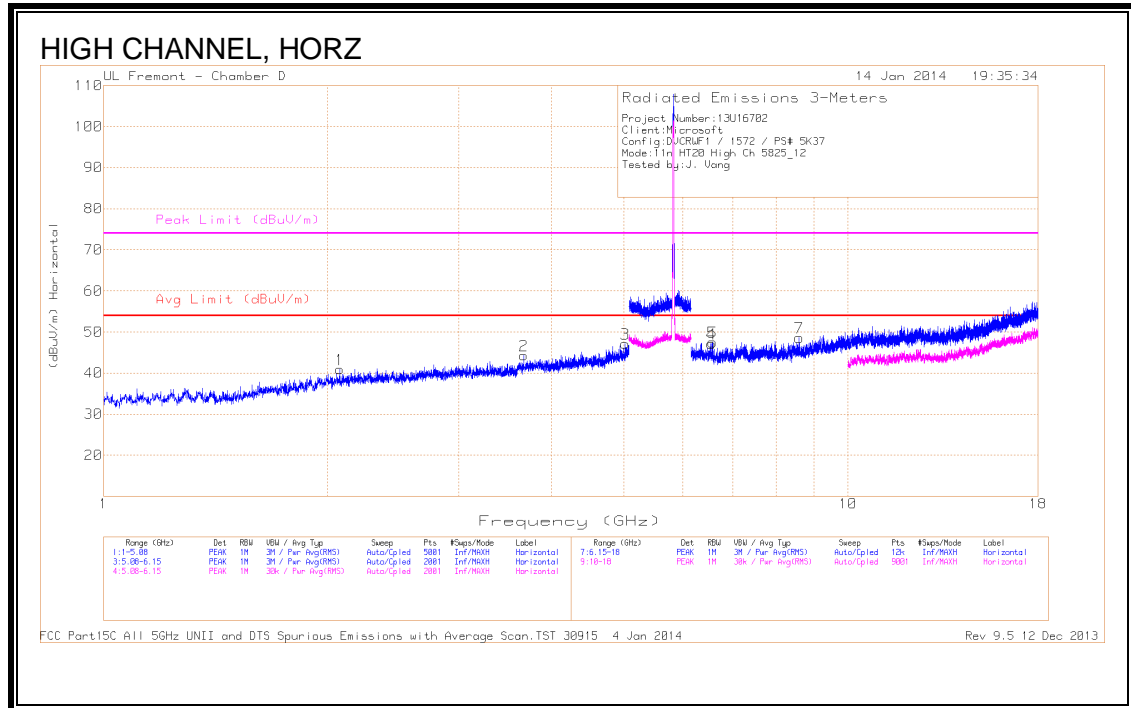
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	4.425	39.3	PK	34.1	-27.8	45.6	54	-8.4	74	-28.4	0-360	100	H
2	6.753	38.16	PK	35.7	-26.6	47.26	54	-6.74	74	-26.74	0-360	201	H
3	6.841	37.44	PK	35.8	-25.8	47.44	54	-6.56	74	-26.56	0-360	100	V
4	6.974	37.35	PK	35.9	-25.7	47.55	54	-6.45	74	-26.45	0-360	100	H
5	8.545	35.16	PK	36.2	-23	48.36	54	-5.64	74	-25.64	0-360	100	H
6	8.886	35.51	PK	36.6	-23.2	48.91	54	-5.09	74	-25.09	0-360	100	H
7	9.249	34.55	PK	36.9	-22.5	48.95	54	-5.05	74	-25.05	0-360	100	H
8	9.755	34.3	PK	37.4	-21.5	50.2	54	-3.8	74	-23.8	0-360	201	H

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
8.545	20.95	Av	36.2	-23	34.15	54	-19.85	-	-	40	309	H
8.886	20.79	Av	36.6	-23.2	34.19	54	-19.81	-	-	310	228	H
9.249	20.34	Av	36.9	-22.5	34.74	54	-19.26	-	-	164	259	H
9.755	19.91	Av	37.4	-21.6	35.71	54	-18.29	-	-	360	183	H

PK - Peak detector

Av - average detection

HIGH CHANNEL



HIGH CHANNEL DATA

Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.075	39.73	PK	31.9	-30.7	40.93	54	-13.07	74	-33.07	0-360	201	H
2	3.668	39.12	PK	33.6	-28.4	44.32	54	-9.68	74	-29.68	0-360	100	H
3	5.019	39.08	PK	34.3	-26.2	47.18	54	-6.82	74	-26.82	0-360	100	H
4	6.556	36.53	PK	35.8	-25.2	47.13	54	-6.87	74	-26.87	0-360	201	H
5	6.577	37.13	PK	35.8	-25.4	47.53	54	-6.47	74	-26.47	0-360	100	H
6	7.545	36.71	PK	35.9	-25.3	47.31	54	-6.69	74	-26.69	0-360	100	V
7	8.598	35.21	PK	36.3	-22.9	48.61	54	-5.39	74	-25.39	0-360	201	H
8	9.275	34.91	PK	36.9	-22.3	49.51	54	-4.49	74	-24.49	0-360	100	V

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
8.598	20.39	Av	36.3	-22.9	33.79	54	-20.21	-	-	117	394	H
9.275	20.36	Av	36.9	-22.3	34.96	54	-19.04	-	-	233	100	V

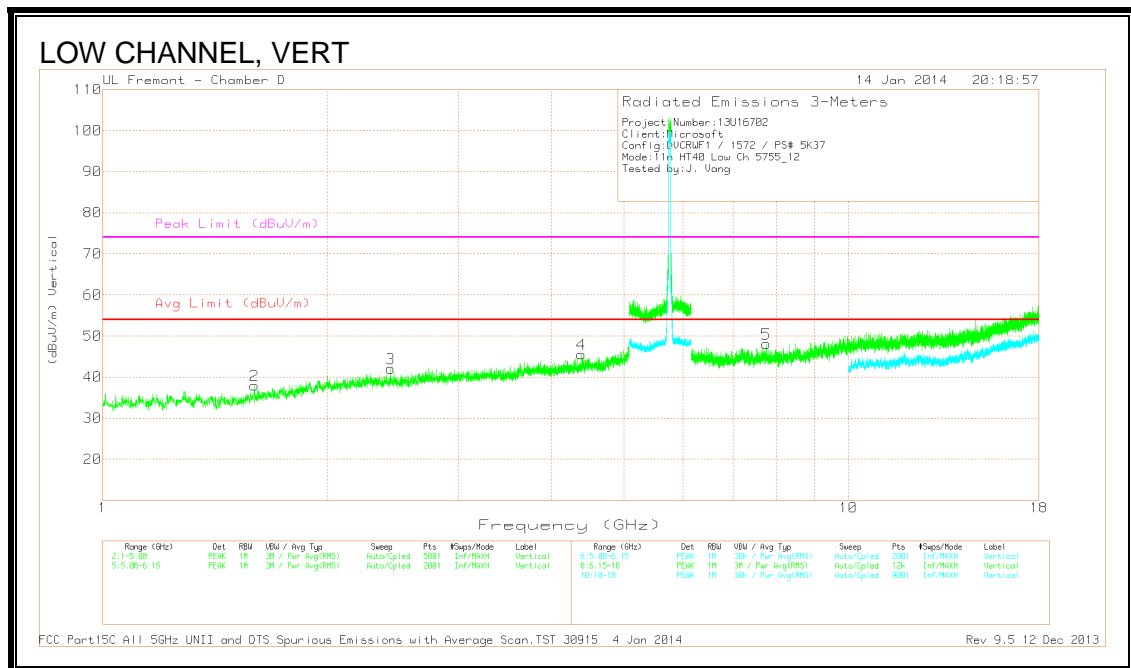
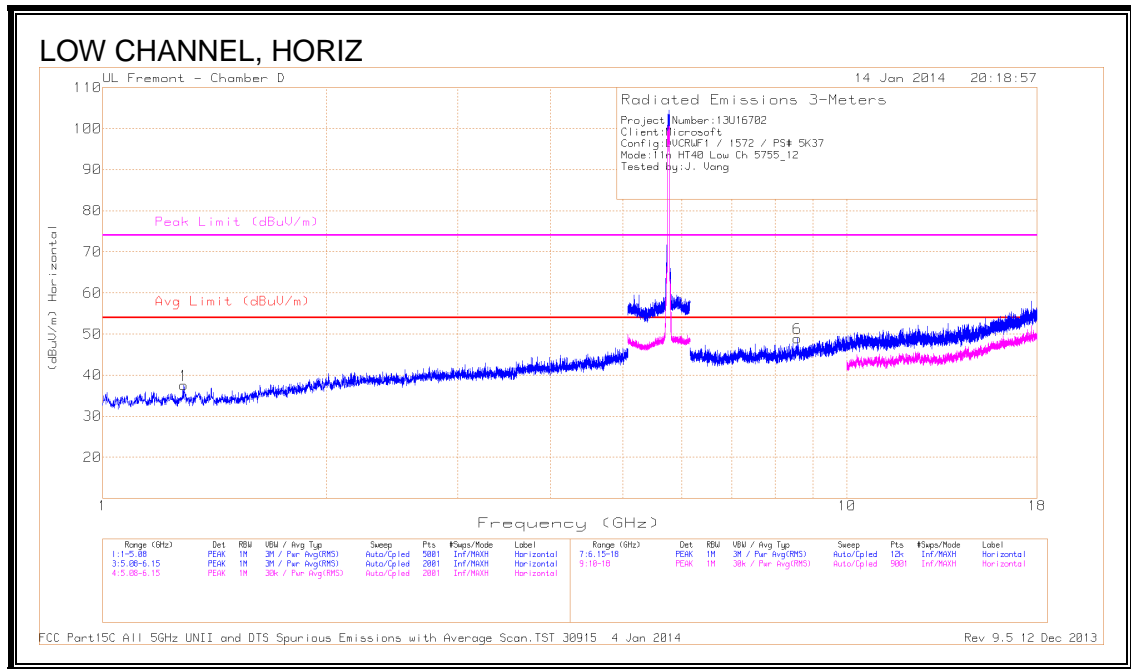
PK - Peak detector

Av - average detection

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

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



LOW CHANNEL DATA

Radiated Emissions

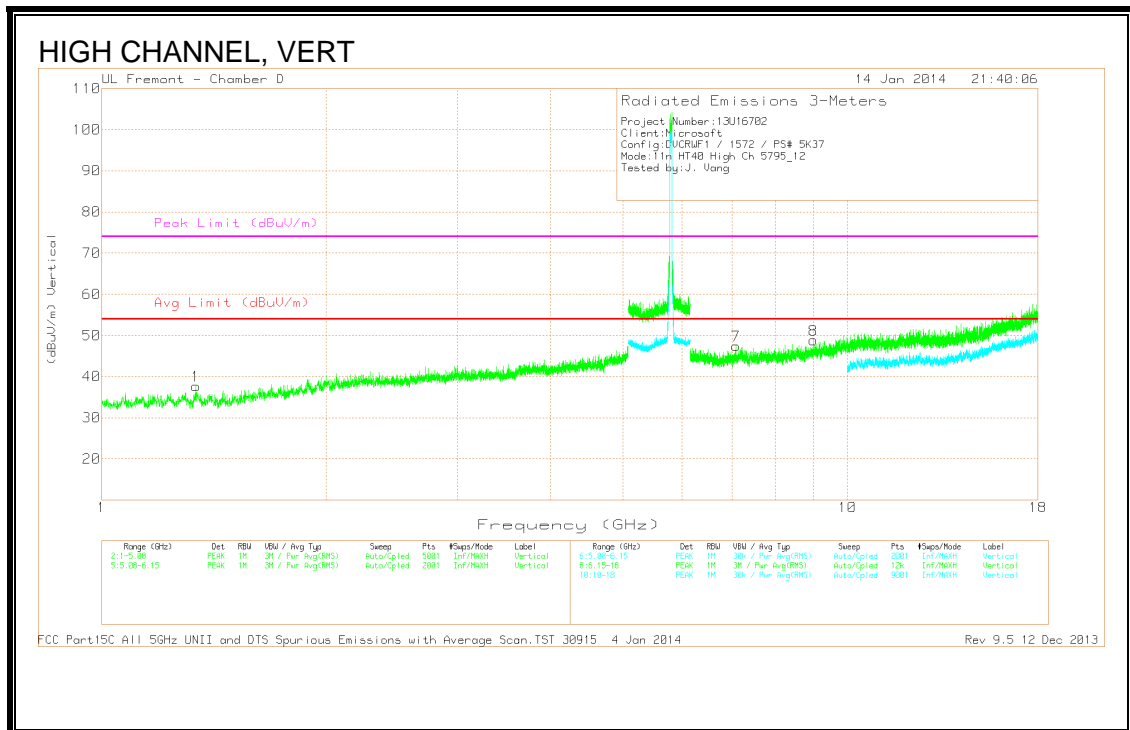
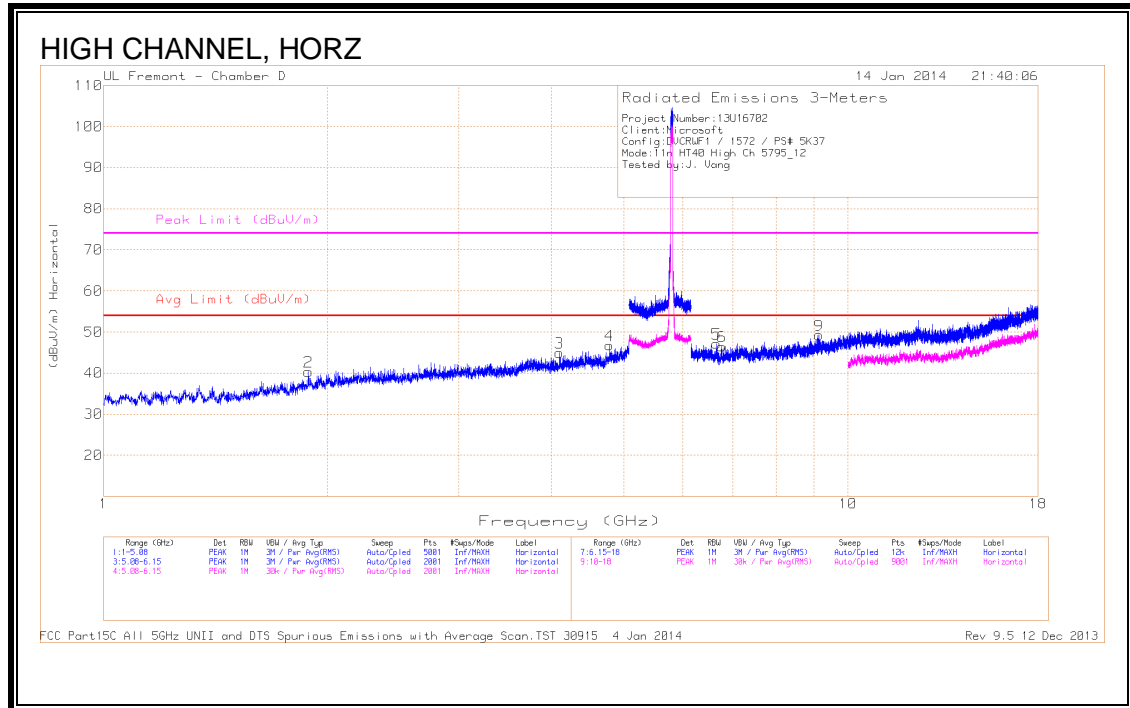
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.286	40.34	PK	28.5	-31.3	37.54	54	-16.46	74	-36.46	0-360	100	H
2	1.597	40.2	PK	28.9	-31.1	38	54	-16	74	-36	0-360	201	V
3	2.431	39.8	PK	32.4	-30.1	42.1	54	-11.9	74	-31.9	0-360	100	V
4	4.384	39.34	PK	34.1	-27.9	45.54	54	-8.46	74	-28.46	0-360	201	V
5	7.757	36.21	PK	36.1	-24.2	48.11	54	-5.89	74	-25.89	0-360	100	V
6	8.577	36.06	PK	36.3	-23.4	48.96	54	-5.04	74	-25.04	0-360	100	H

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7.757	21.56	Av	36.1	-24.2	33.46	54	-20.54	-	-	174	243	V
8.577	20.95	Av	36.3	-23.4	33.85	54	-20.15	-	-	195	368	H

PK - Peak detector

Av - average detection

HIGH CHANNEL



HIGH CHANNEL DATA

Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.338	40.41	PK	28.5	-31.2	37.71	54	-16.29	74	-36.29	0-360	201	V
2	1.884	40.04	PK	30.9	-30.6	40.34	54	-13.66	74	-33.66	0-360	201	H
3	4.095	39.35	PK	33.8	-28.2	44.95	54	-9.05	74	-29.05	0-360	201	H
4	4.779	39.38	PK	34.4	-27	46.78	54	-7.22	74	-27.22	0-360	100	H
5	6.658	37.46	PK	35.7	-26	47.16	54	-6.84	74	-26.84	0-360	201	H
6	6.769	37.14	PK	35.7	-26.3	46.54	54	-7.46	74	-27.46	0-360	100	H
7	7.085	37.07	PK	35.9	-25.5	47.47	54	-6.53	74	-26.53	0-360	100	V
8	8.998	35.26	PK	36.7	-23.1	48.86	54	-5.14	74	-25.14	0-360	100	V
9	9.144	35.27	PK	36.8	-22.8	49.27	54	-4.73	74	-24.73	0-360	201	H

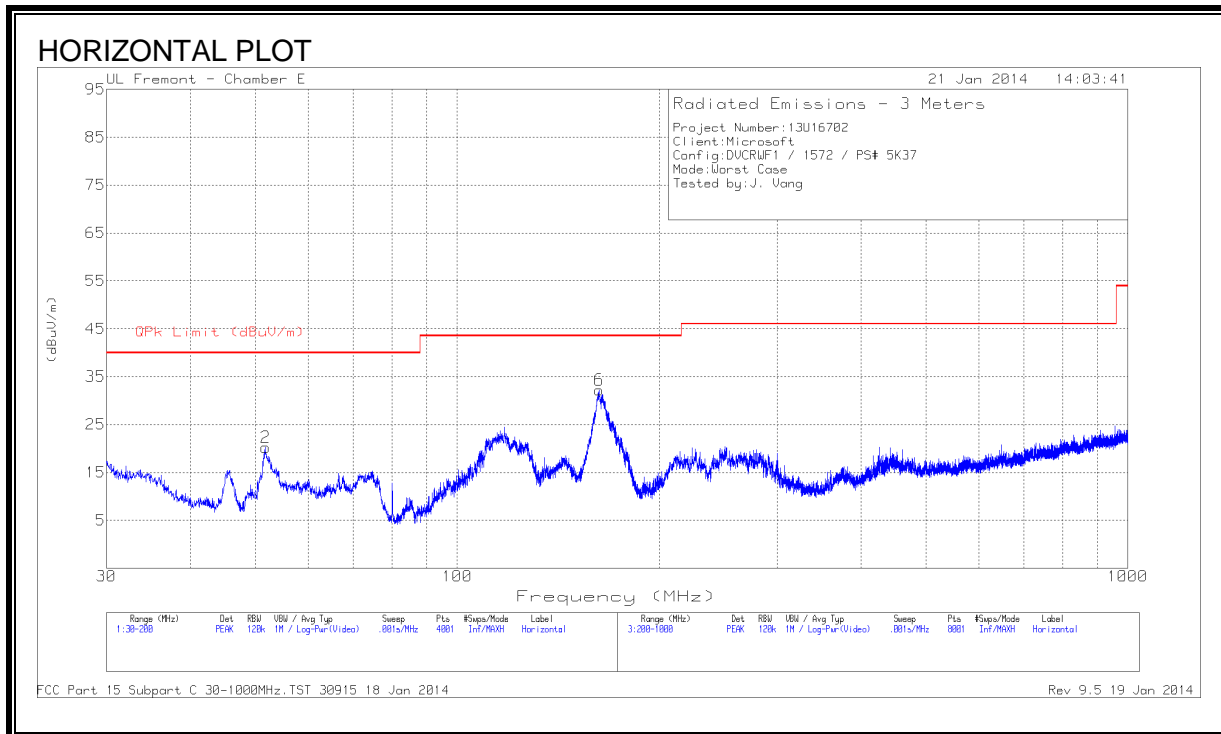
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
9.145	20.44	Av	36.8	-22.8	34.44	54	-19.56	-	-	287	217	H
8.998	20.53	Av	36.7	-23.1	34.13	54	-19.87	-	-	175	372	V

PK - Peak detector

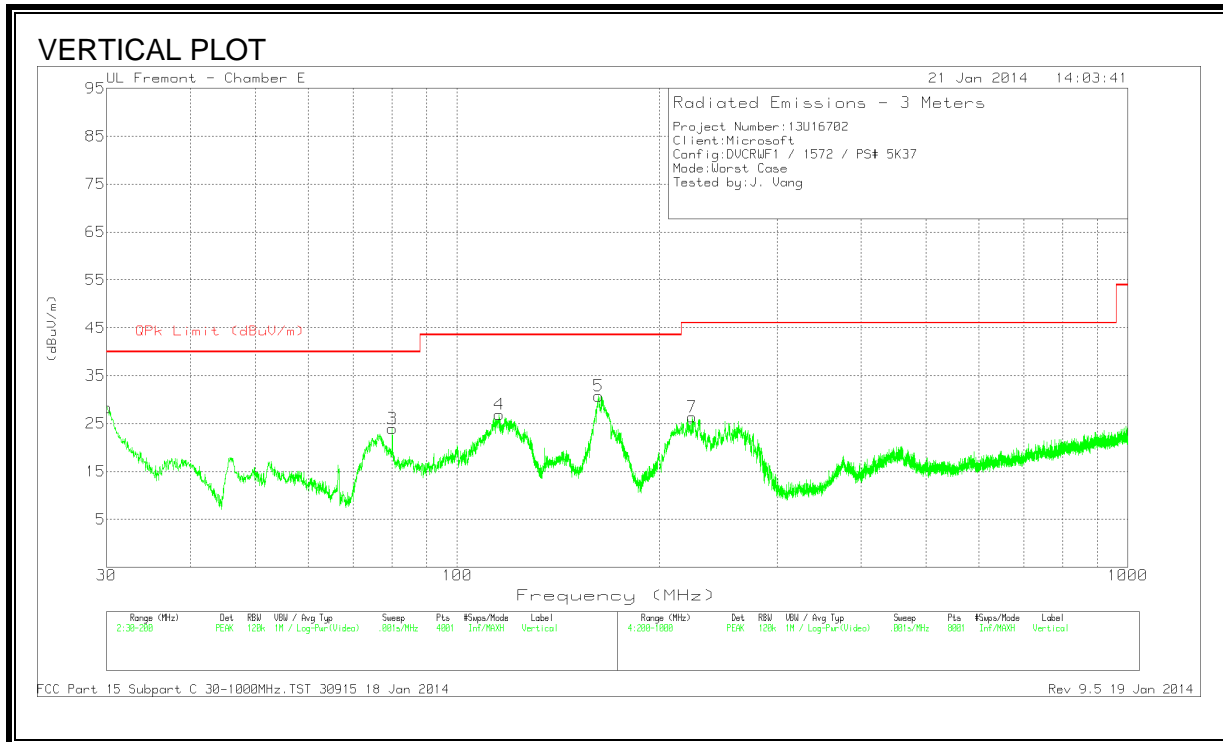
Av - average detection

8.11. WORST-CASE BELOW 1 GHz

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



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



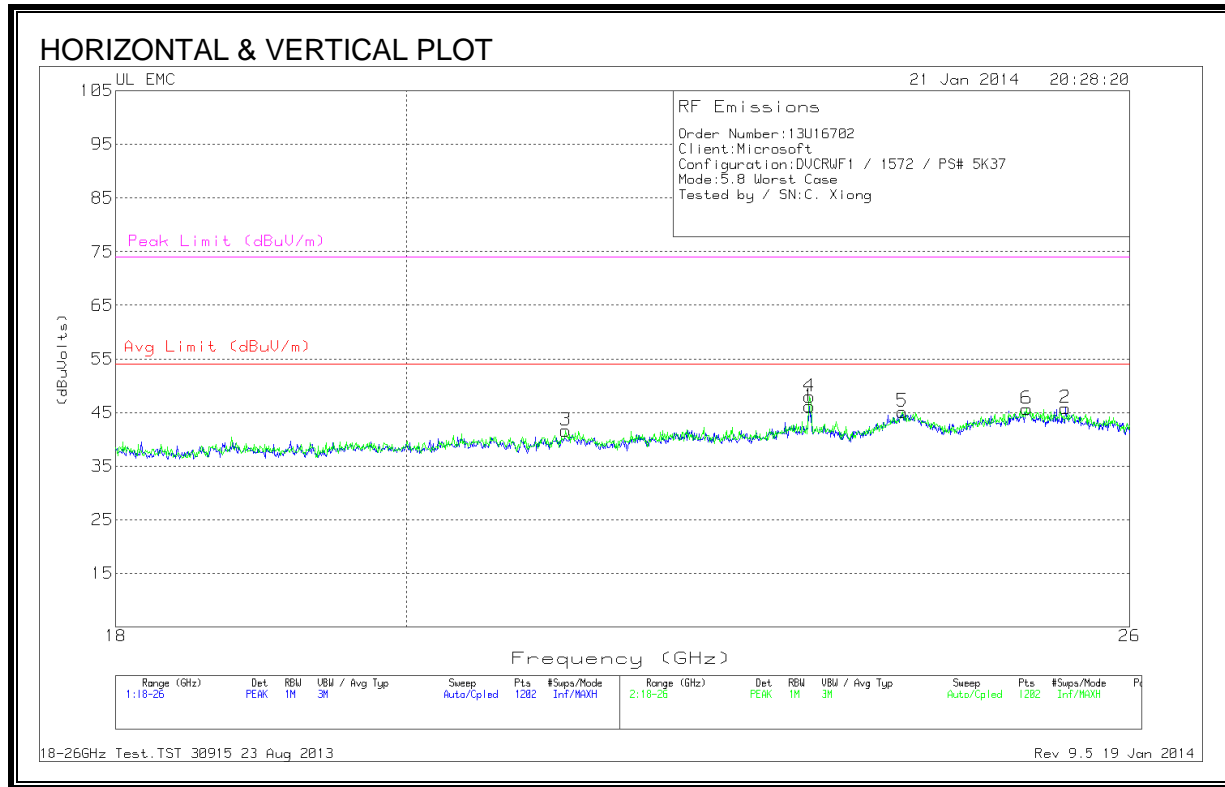
BELOW 1G DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T408 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.0425	39.35	PK	21.1	-32.1	28.35	40	-11.65	0-360	100	V
2	51.8025	45.52	PK	7.4	-32.7	20.22	40	-19.78	0-360	400	H
3	80.0225	47.77	PK	7.7	-31.5	23.97	40	-16.03	0-360	100	V
4	115.51	44.51	PK	13.3	-30.9	26.91	43.52	-16.61	0-360	100	V
5	162.5575	49.56	PK	12	-30.8	30.76	43.52	-12.76	0-360	100	V
6	162.8125	50.92	PK	12	-30.7	32.22	43.52	-11.3	0-360	200	H
7	224	46.36	PK	10.8	-30.8	26.36	46.02	-19.66	0-360	100	V

PK - Peak detector

8.12. WORST-CASE 18 to 26GHz

SPURIOUS EMISSIONS 18000 26000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)



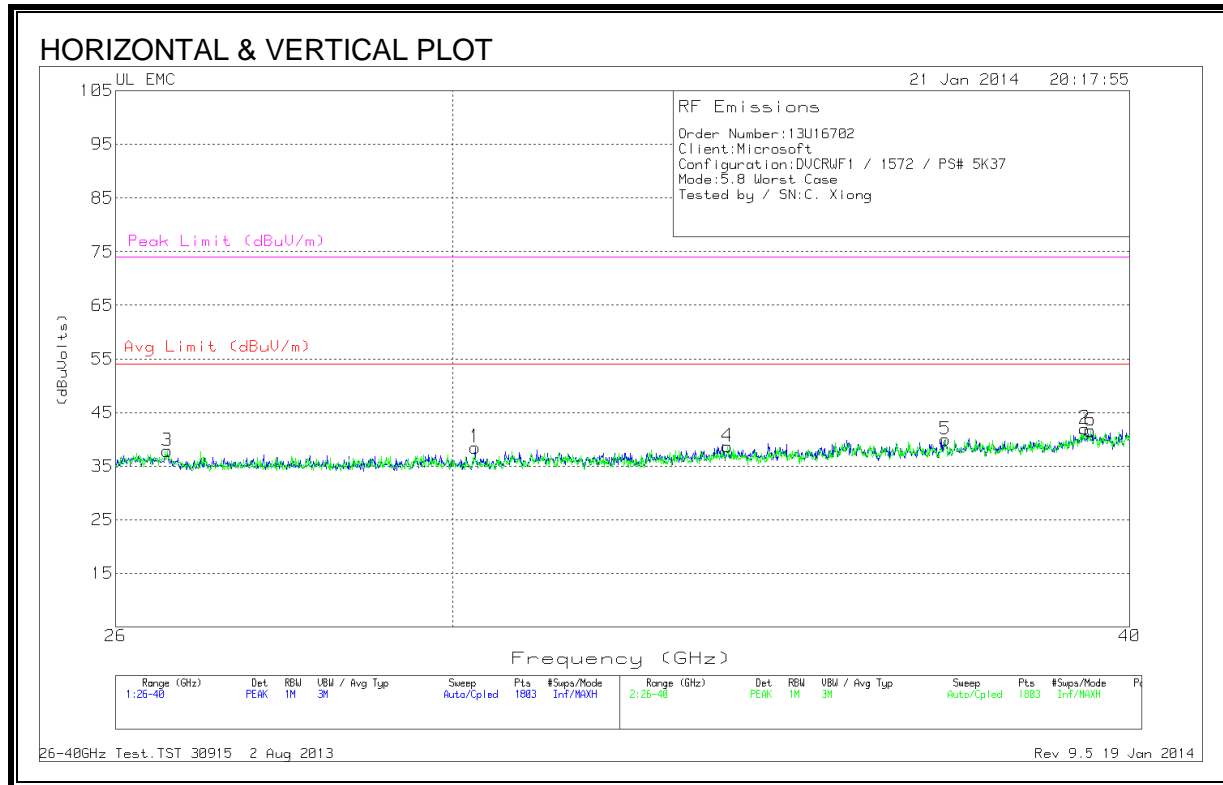
18 TO 26G DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T89 (dB/m)	Amp/Cb l (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	23.149	45.67	PK	33.4	-23.4	-9.5	46.16	54	-7.83	74	-27.83
2	25.401	44.13	PK	34	-22.8	-9.5	45.83	54	-8.16	74	-28.16
3	21.191	41.67	PK	33	-23.5	-9.5	41.66	54	-12.33	74	-32.33
4	23.149	47.5	PK	33.4	-23.4	-9.5	48	54	-6	74	-26
5	23.942	43.87	PK	33.6	-22.8	-9.5	45.16	54	-8.83	74	-28.83
6	25.047	43.77	PK	34	-22.6	-9.5	45.66	54	-8.33	74	-28.33

PK - Peak detector

8.13. WORST-CASE 26 to 40GHz

SPURIOUS EMISSIONS 2600 40000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)



26 TO 40G DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T90 AF (dB/m)	Amp/Cb I (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	30.289	47.6	PK	35.9	-35.5	-9.5	38.5	54	-15.5	74	-35.5
2	39.246	49.2	PK	38.6	-36.3	-9.5	42	54	-12	74	-32
3	26.575	45.23	PK	35.4	-33.3	-9.5	37.83	54	-16.16	74	-36.16
4	33.715	47.77	PK	36.9	-36.5	-9.5	38.66	54	-15.33	74	-35.33
5	36.986	49.8	PK	37.2	-37.5	-9.5	40	54	-14	74	-34
6	39.34	49.07	PK	38.1	-36	-9.5	41.66	54	-12.33	74	-32.33

PK - Peak detector

9. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 7.2.2

NCC LP0002 §2.3

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

* Decreases with the logarithm of the frequency.

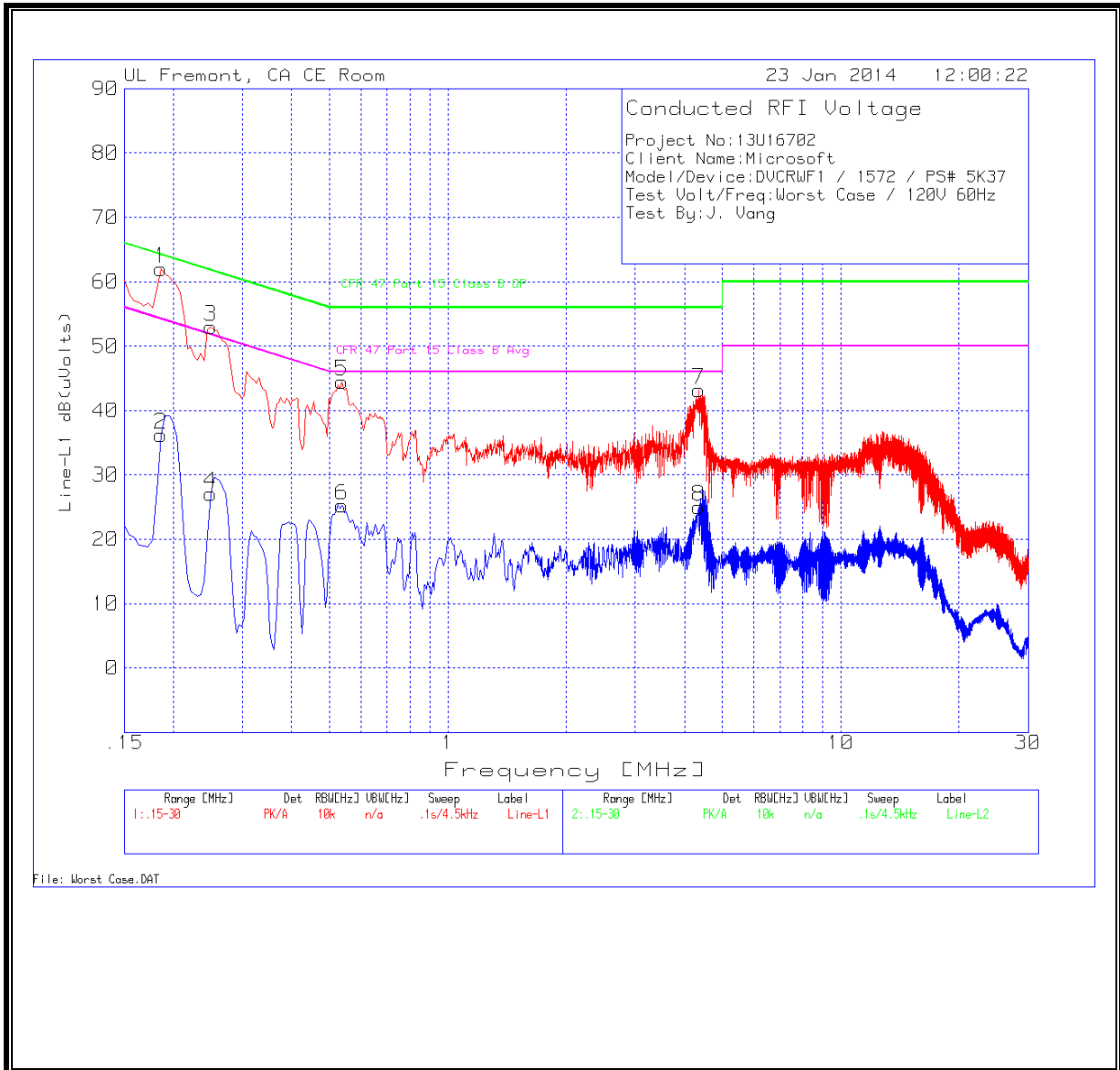
TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.4.

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



LINE 1 DATA RESULTS

Line-L1 .15 - 30MHz

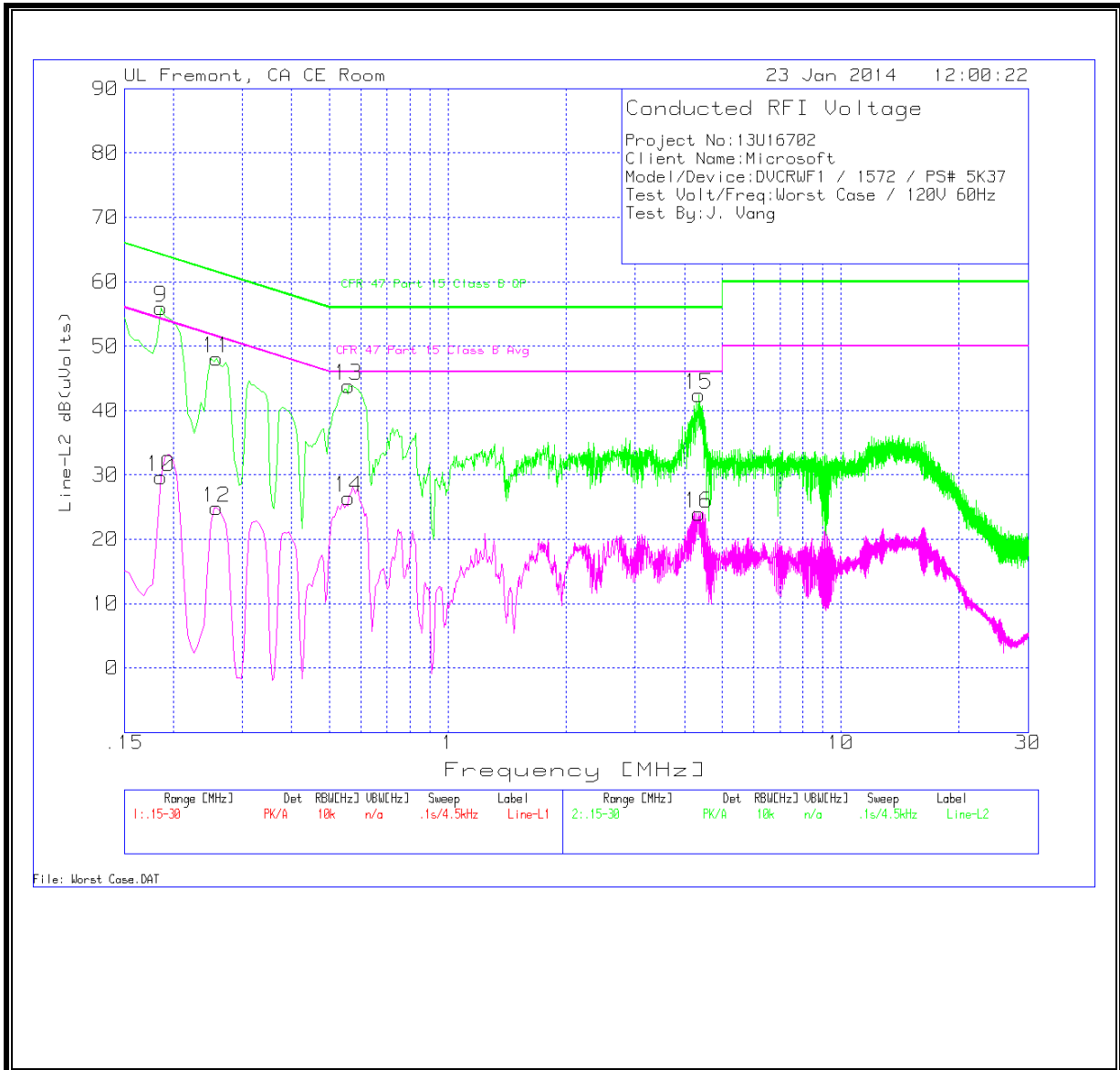
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1 (dB)	LC Cables 1&3 (dB)	Corrected Reading dB(uVolts)	CFR 47 Part 15 Class B QP	Margin to Limit (dB)	CFR 47 Part 15 Class B Avg	Margin to Limit (dB)
1	.186	61.04	PK	1	0	62.04	64.2	-2.16	-	-
2	.186	35.2	Av	1	0	36.2	-	-	54.2	-18
3	.249	52.31	PK	.7	0	53.01	61.8	-8.79	-	-
4	.249	26.38	Av	.7	0	27.08	-	-	51.8	-24.72
5	.537	44.13	PK	.3	0	44.43	56	-11.57	-	-
6	.537	24.92	Av	.3	0	25.22	-	-	46	-20.78
7	4.362	42.86	PK	.2	.1	43.16	56	-12.84	-	-
8	4.362	24.75	Av	.2	.1	25.05	-	-	46	-20.95

PK - Peak detector

Av - average detection

LINE 2 RESULTS



LINE 2 DATA RESULTS

Line-L2 .15 - 30MHz

Trace Markers										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2 (dB)	LC Cables 2&3 (dB)	Corrected Reading dB(uVolts)	CFR 47 Part 15 Class B QP	Margin to Limit (dB)	CFR 47 Part 15 Class B Avg	Margin to Limit (dB)
9	.186	54.87	PK	1.1	0	55.97	64.2	-8.23	-	-
10	.186	28.57	Av	1.1	0	29.67	-	-	54.2	-24.53
11	.258	47.41	PK	.7	0	48.11	61.5	-13.39	-	-
12	.258	24.13	Av	.7	0	24.83	-	-	51.5	-26.67
13	.5595	43.59	PK	.3	0	43.89	56	-12.11	-	-
14	.5595	26.18	Av	.3	0	26.48	-	-	46	-19.52
15	4.362	42.07	PK	.2	.1	42.37	56	-13.63	-	-
16	4.362	23.72	Av	.2	.1	24.02	-	-	46	-21.98

PK - Peak detector

Av - average detection