FCC 47 CFR PART 15 SUBPART C

CERTIFICATION TEST REPORT

FOR

CELLULAR PHONE WITH BLUETOOTH AND WLAN RADIOS

MODEL NUMBER: A1522

FCC ID: BCG-E2817A

REPORT NUMBER: 14U17676-E6 Revision B

ISSUE DATE: AUGUST 02, 2014

Prepared for
APPLE, INC.
1 INFINITE LOOP
CUPERTINO, CA 95014, U.S.A.

Prepared by
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NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
--	7/24/14	Initial Issue	F. de Anda
A	7/30/14	Updated sections 1, 2,5, 8 and 9	F. de Anda
B	08/02/14	Address TCB Questions	T. Lee

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: APPLE
1 INFINITE LOOP
CUPERTINO, CA 95014, U.S.A.

EUT DESCRIPTION: CELLULAR PHONE WITH BLUETOOTH AND WLAN RADIOS

MODEL: A1522

SERIAL NUMBER: C39MV008G30C

DATE TESTED: MAY 28, 2014 to JULY 18, 2014

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
CFR 47 Part 15 Subpart C	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:

Francisco de Anda
PROJECT LEADER
UL Verification Services Inc.

Tested By:

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, ANSI C63.10-2009.

Per FCC guidance, radiated tests are performed for A1522 to ensure that there is no deviation in EM fields between Model A1522 and Model A1524.

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
☐ Chamber A	☐ Chamber D
☐ Chamber B	☐ Chamber E
☐ Chamber C	☒ Chamber F
	☐ Chamber G
	☐ Chamber H

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:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)

36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

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

Model A1522 is a mobile phone with multimedia functions (music, application support, and video), Cellular GSM/GPRS/EGPRS/CDMA2000/EVDO Rev.A/ EVDO Rev.B /WCDMA/HSPA+/DC-HSDPA/LTE FDD & Carrier Aggregation radio, IEEE 802.11a/b/g/n/ac radio, Bluetooth radio and NFC. The rechargeable battery is not user accessible.

5.2. MAXIMUM OUTPUT POWER

For Maximum output power, refer to Model A1524 FCC WLAN DTS report.

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a PiFA antenna, with a maximum gain of 0.81 dBi.

5.4. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was 7.16.89.5.

The test utility software used during testing was Bluetool 1.8.5.

5.5. 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 (Flatbed), Y (Landscape), Z (Portrait), it was determined that X orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in X (Flatbed) orientation.

Worst-case data rates as provided by the client were:
Based on the baseline scan, the worst-case data rates were:

802.11b Mode: 1 Mbps
802.11b Mode: 6 Mbps
802.11n HT20mode: MCS0

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

There are three vendors of the WiFi/Bluetooth radio modules: variant 1, variant 2 and variant 3 and they have the same mechanical outline, same on board antenna, matching circuit, antenna structure and same specification. Baseline testing was performed on all three variants to determine the worst case on all conducted power and radiated emissions.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC/DC adapter	Apple	A1401	60812	NA
Earphone	Apple	NA	NA	NA
Laptop	Apple	A1278	C02HJ0A7DTY4	NA

I/O CABLES (RADIATED ABOVE 1 GHZ)

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
None used						

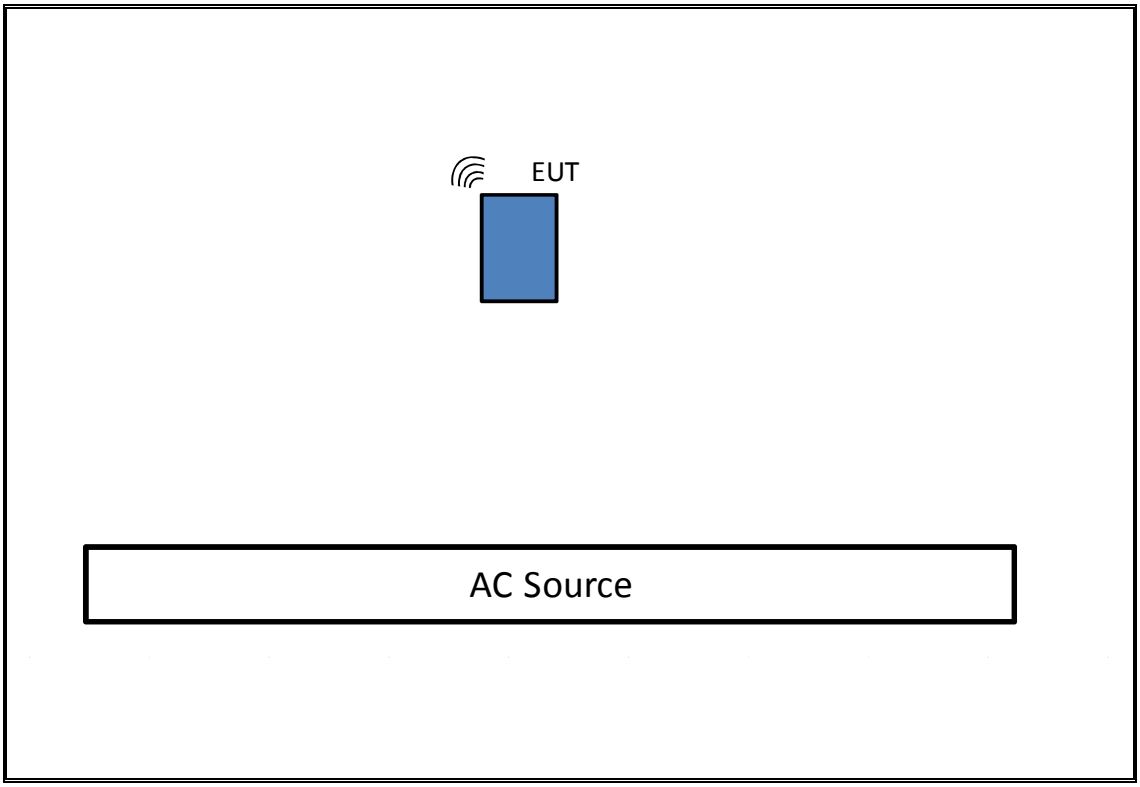
I/O CABLES (BELOW 1GHZ & AC LINE CONDUCTED TESTS)

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC	1	US115	Un-Shielded	80cm	NA
2	DC	1	USB	Un-Shielded	1m	NA
3	Audio	1	Jack	Un-Shielded	0.5m	NA

TEST SETUP- RADIATED-ABOVE 1 GHZ

The EUT was tested battery powered. Test software exercised the EUT.

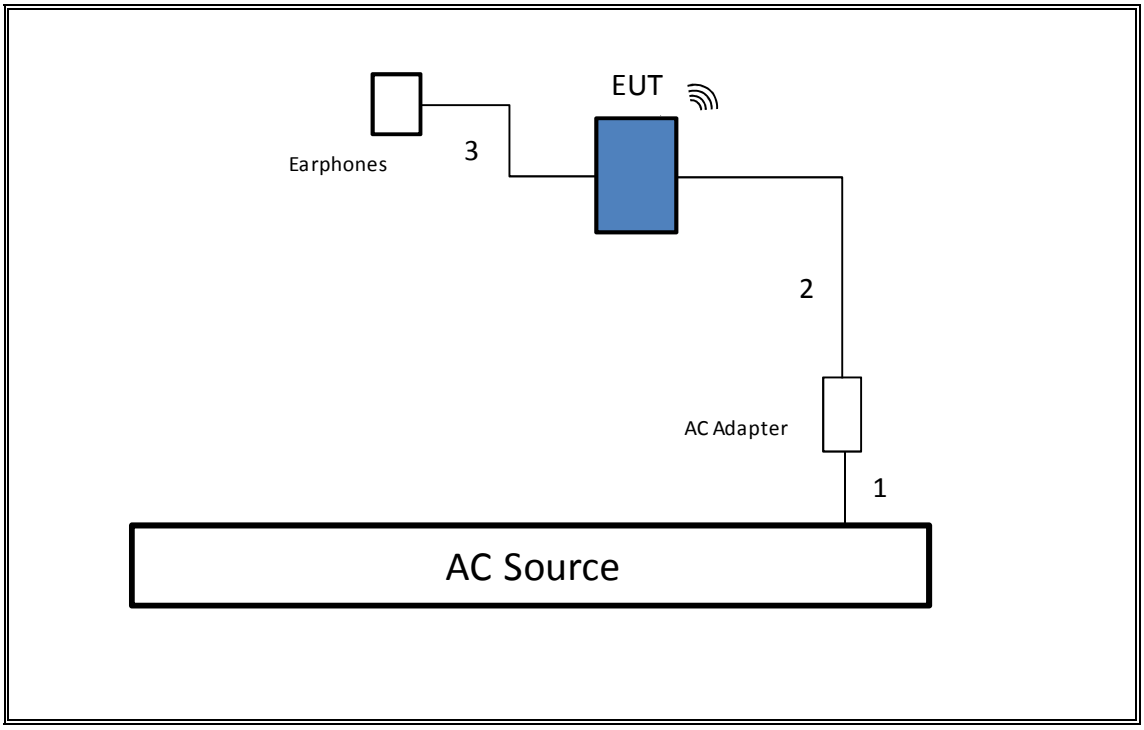
SETUP DIAGRAM



TEST SETUP- BELOW 1GHZ & AC LINE CONDUCTED TESTS

The EUT was tested with earphones connected and powered by AC adapter. Test software exercised the EUT.

SETUP DIAGRAM



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**
Spectrum Analyzer, 44GHz	Agilent	N9030A	F00129	02/22/15
Communication Test Set	R & S	CMW500	F00014	02/27/15
Antenna, Biconolog, 30MHz-1 GHz	Sunol Sciences	JB3	F00168	03/28/15
Highpass Filter, 1.5 GHz	Micro-Tronics	HPM13193	N02688	CNR
Peak Power Meter	Boonton	4541	C01189	06/20/14
Peak Power Sensor	Boonton	57006	C01202	09/17/14
Horn Antenna	ETS Lindgren	3117	F00131	02/18/15
PreAmp 1-18GHz	Agilent/HP	8449B	C01063	06/27/14
PreAmp 30-1000MHz	Sonama	310	981661	10/25/14
EMI Test Receiver, 9 kHz-7 GHz	R & S	ESCI 7	F00092	09/05/14
LISN, 30 MHz	FCC	LISN-50/250-25-2	C00626	01/14/15

7. MEASUREMENT METHODS

6 dB BW: KDB 558074 D01 v03r02, Section 8.1.

Output Power: KDB 558074 D01 v03r02, Section 9.1.2.

Power Spectral Density: KDB 558074 D01 v03r02, Section 10.2.

Out-of-band emissions in non-restricted bands: KDB 558074 D01 v03r02, Section 11.0.

Out-of-band emissions in restricted bands: KDB 558074 D01 v03r02, Section 12.0.

8. ON TIME, DUTY CYCLE AND MEASUREMENT METHODS

LIMITS

None; for reporting purposes only.

PROCEDURE

KDB 789033 Zero-Span Spectrum Analyzer Method.

8.1. ON TIME AND DUTY CYCLE RESULTS

For on time and duty cycle data, refer to Model A1524 FCC WLAN DTS report.

9. ANTENNA PORT TEST RESULTS

For antenna port data, refer to Model A1524 FCC WLAN DTS report.

10. RADIATED TEST RESULTS

10.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
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 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.

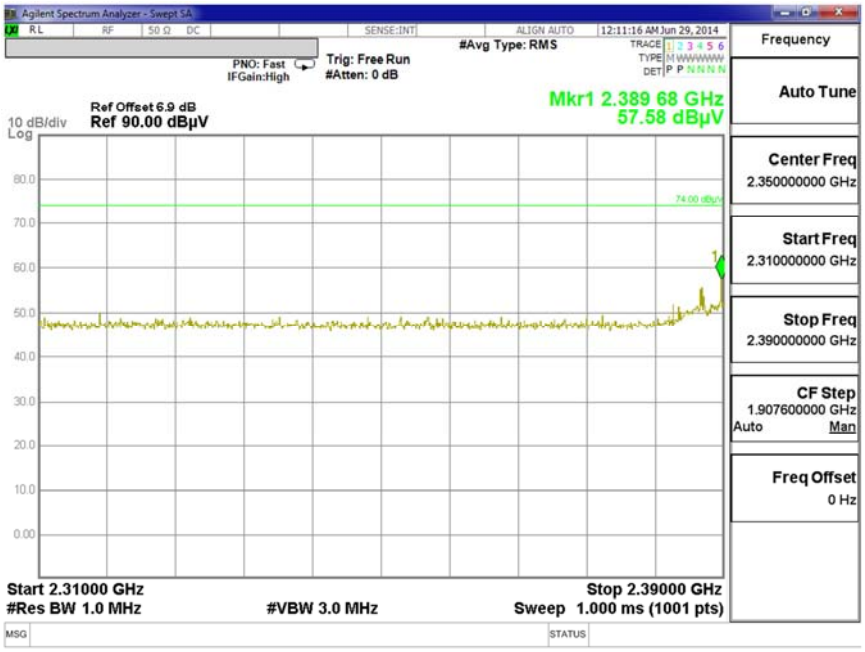
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

10.2. TX RADIATED ABOVE 1 GHz

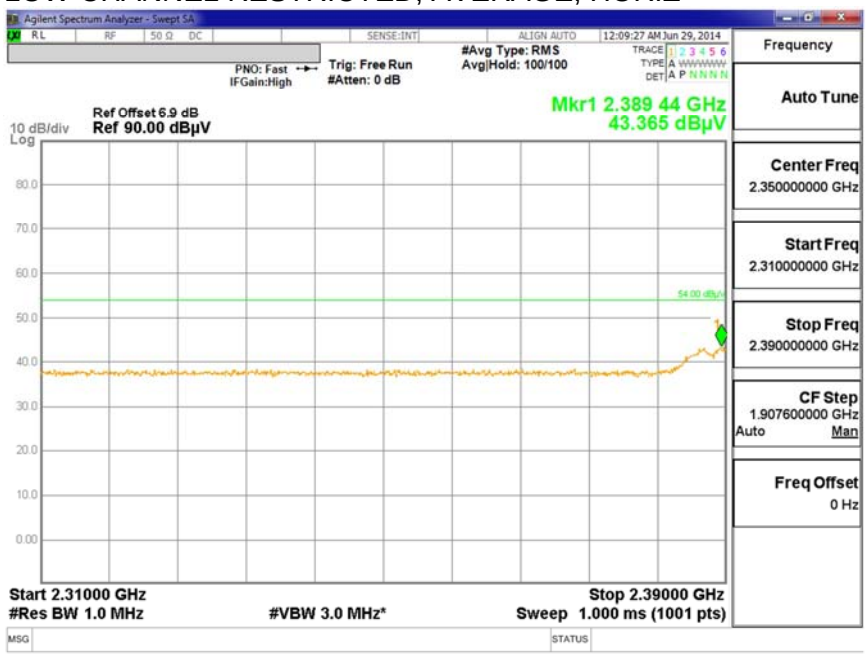
10.2.1. 802.11b MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL, CHANNEL 1)

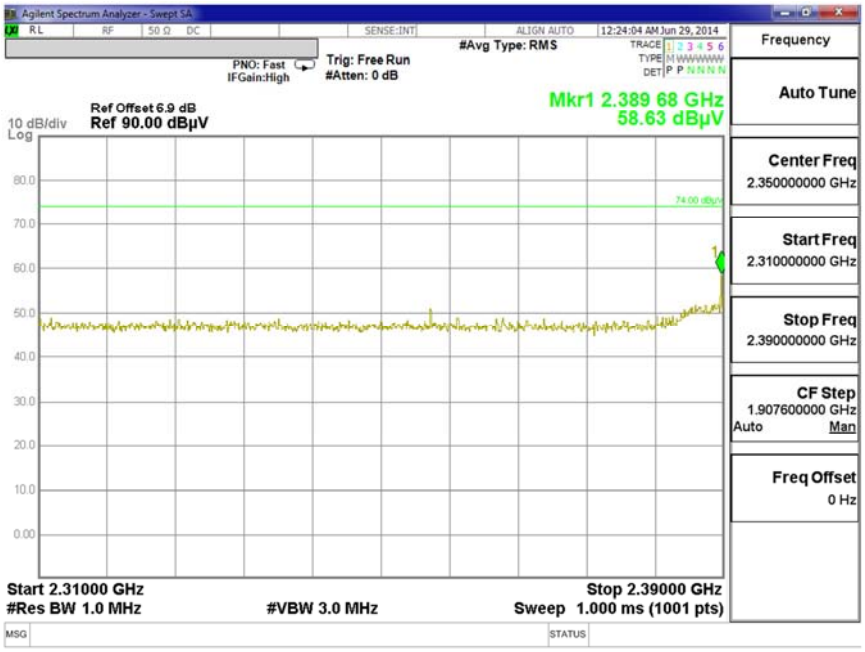
LOW CHANNEL RESTRICTED, PEAK, HORIZ



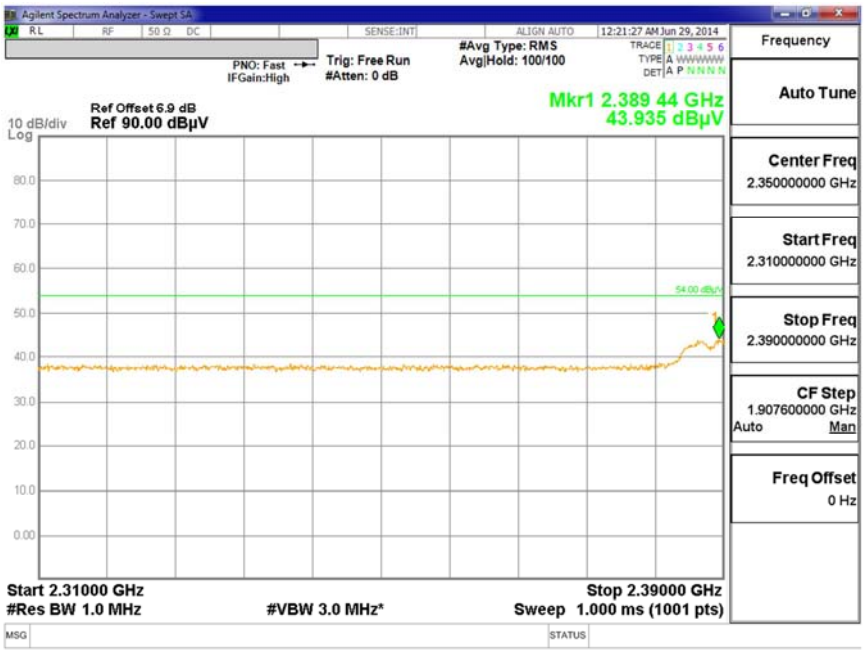
LOW CHANNEL RESTRICTED, AVERAGE, HORIZ



LOW CHANNEL RESTRICTED, PEAK, VERT

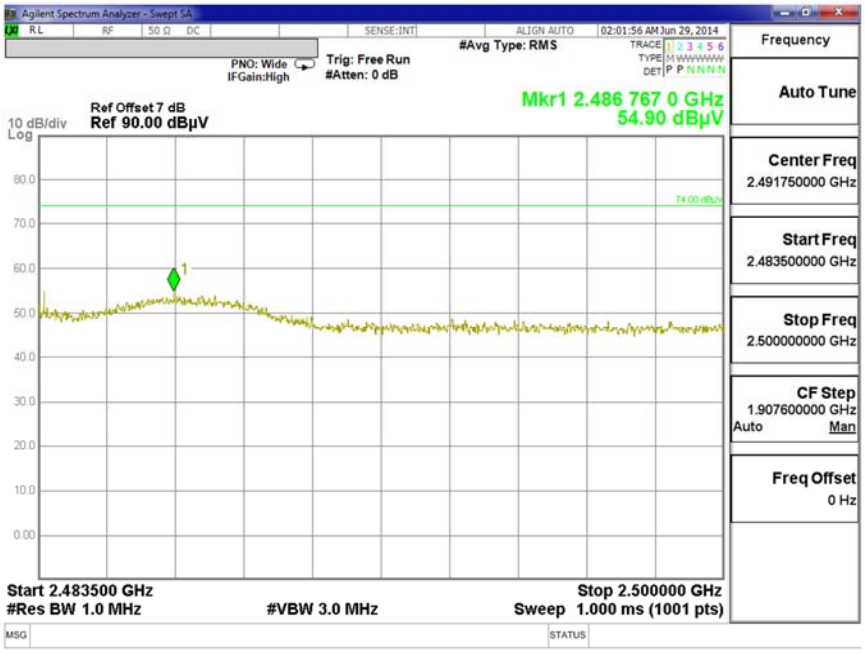


LOW CHANNEL RESTRICTED, AVERAGE, VERT

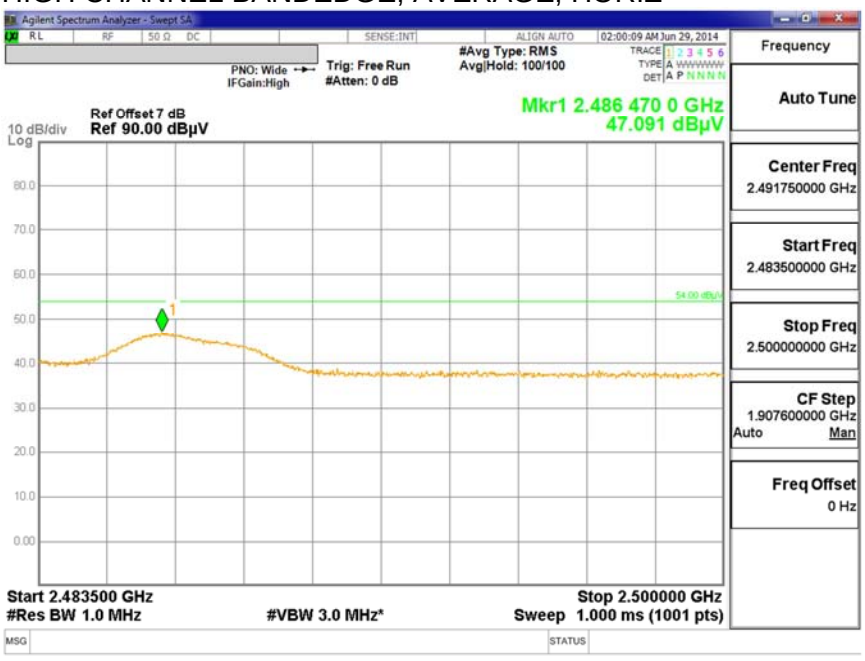


RESTRICTED BANDEDGE (HIGH CHANNEL, CHANNEL 11)

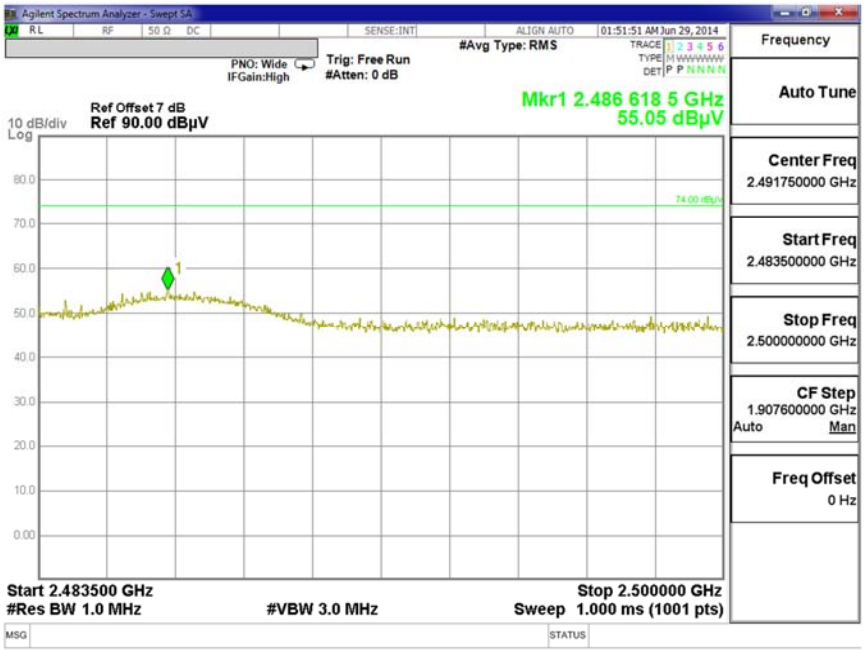
HIGH CHANNEL BANDEDGE, PEAK, HORIZ



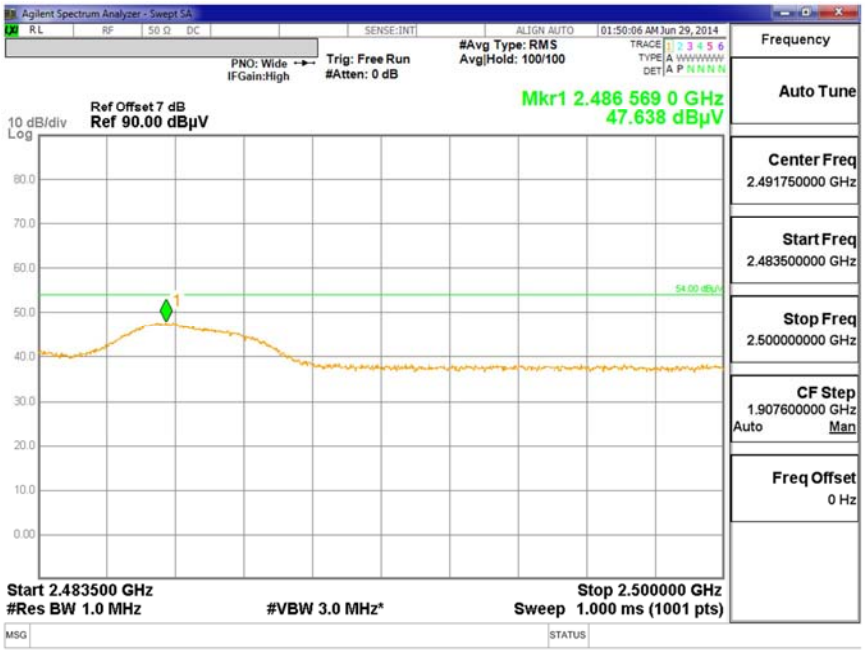
HIGH CHANNEL BANDEDGE, AVERAGE, HORIZ



HIGH CHANNEL BANDEDGE, PEAK, VERT

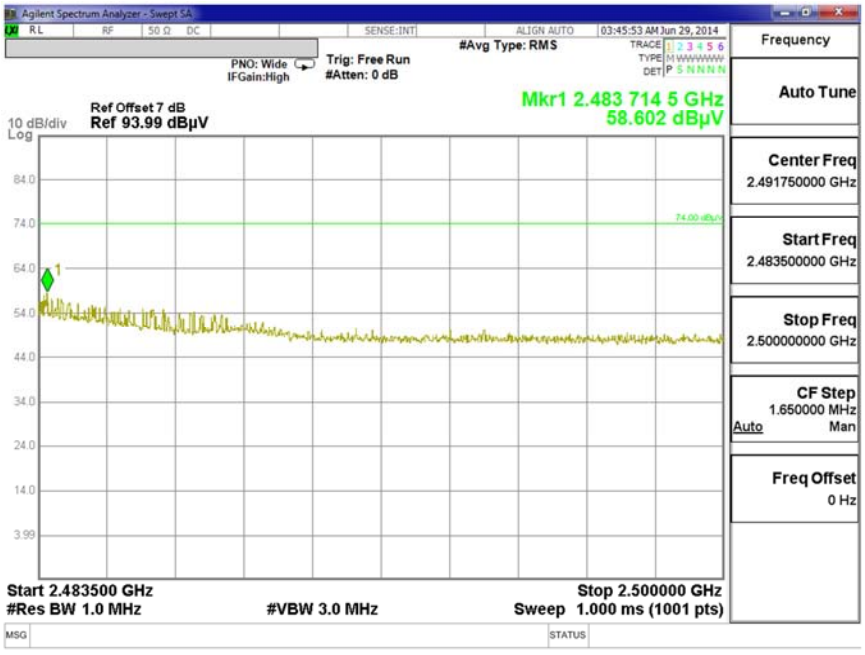


HIGH CHANNEL BANDEDGE, AVERAGE, VERT

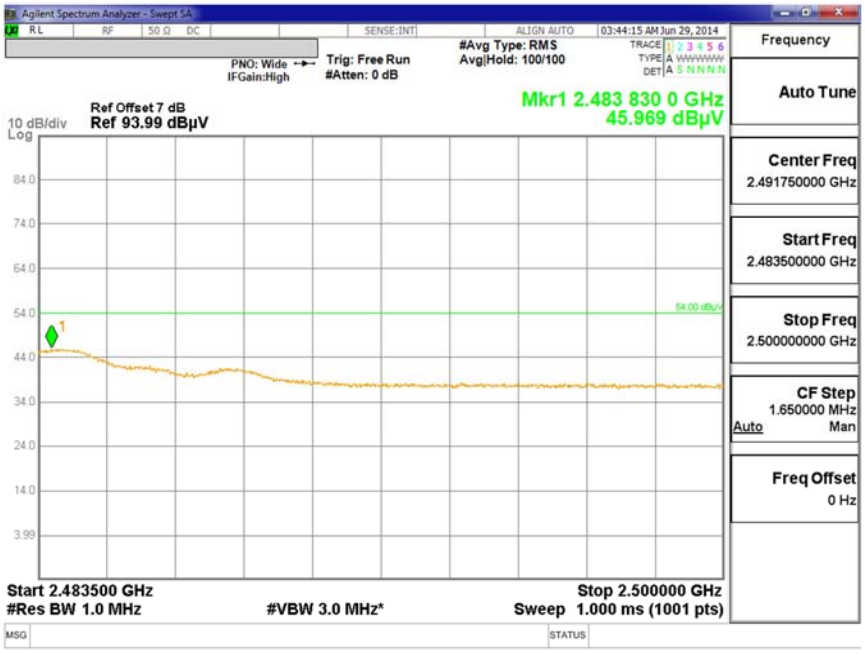


RESTRICTED BANDEDGE (HIGH CHANNEL, CHANNEL 12)

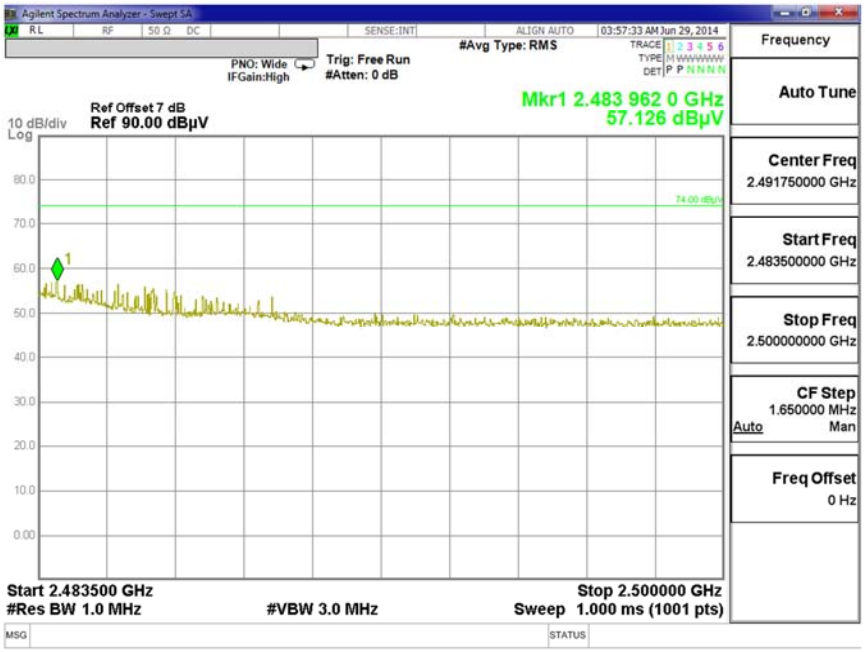
HIGH CHANNEL BANDEDGE, PEAK, HORIZ



HIGH CHANNEL BANDEDGE, AVERAGE, HORIZ



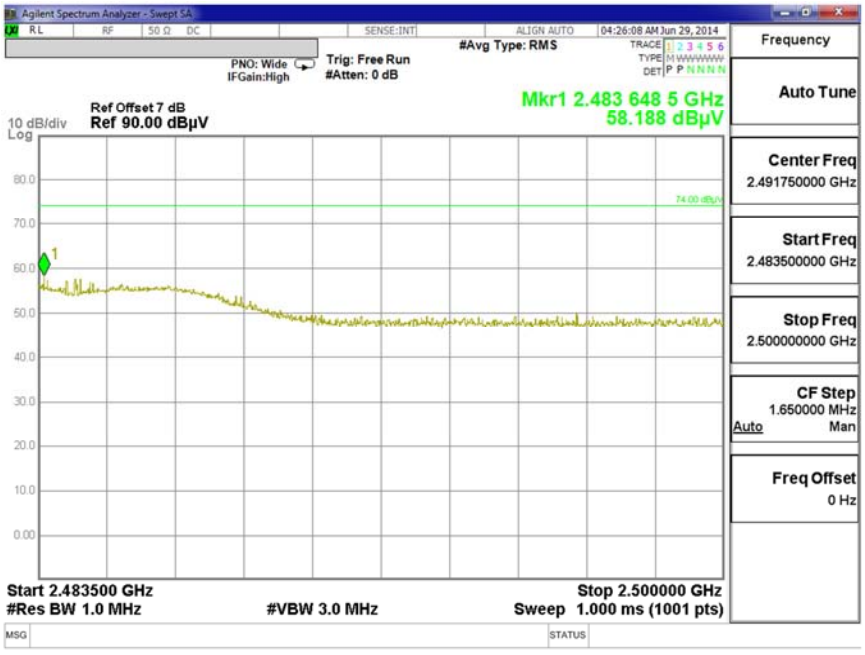
HIGH CHANNEL BANDEDGE, PEAK, VERT



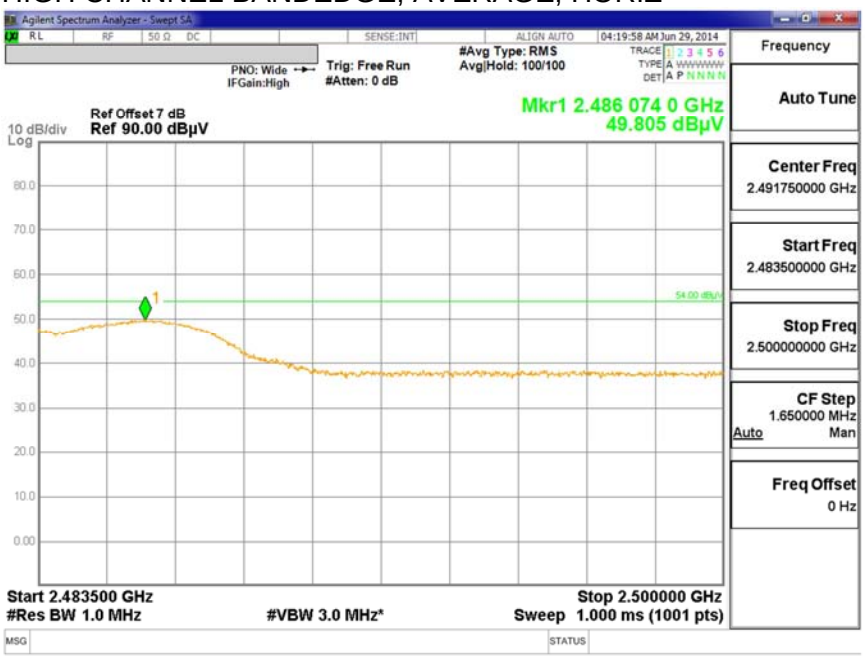
HIGH CHANNEL BANDEDGE, AVERAGE, VERT

RESTRICTED BANDEDGE (HIGH CHANNEL, CHANNEL 13)

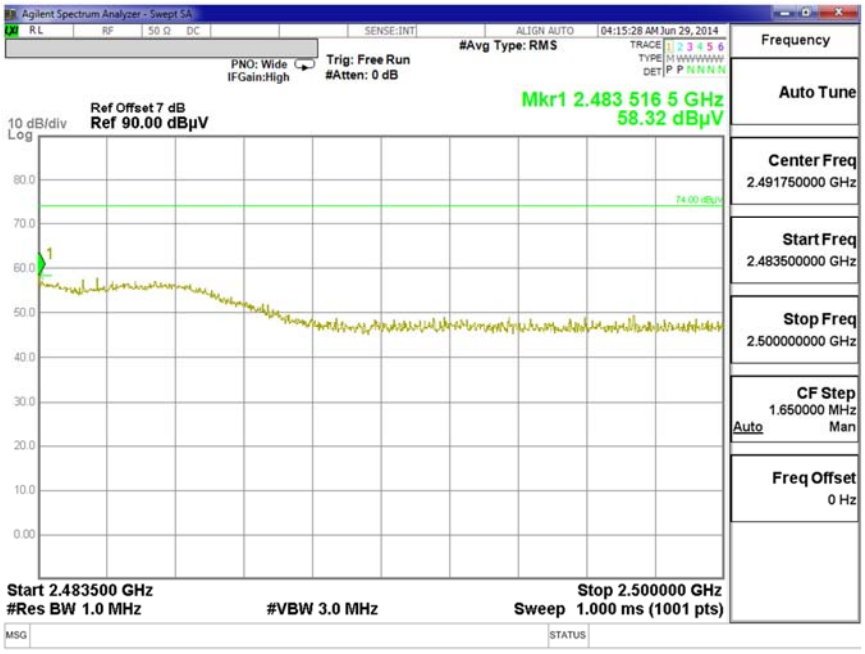
HIGH CHANNEL BANDEDGE, PEAK, HORIZ



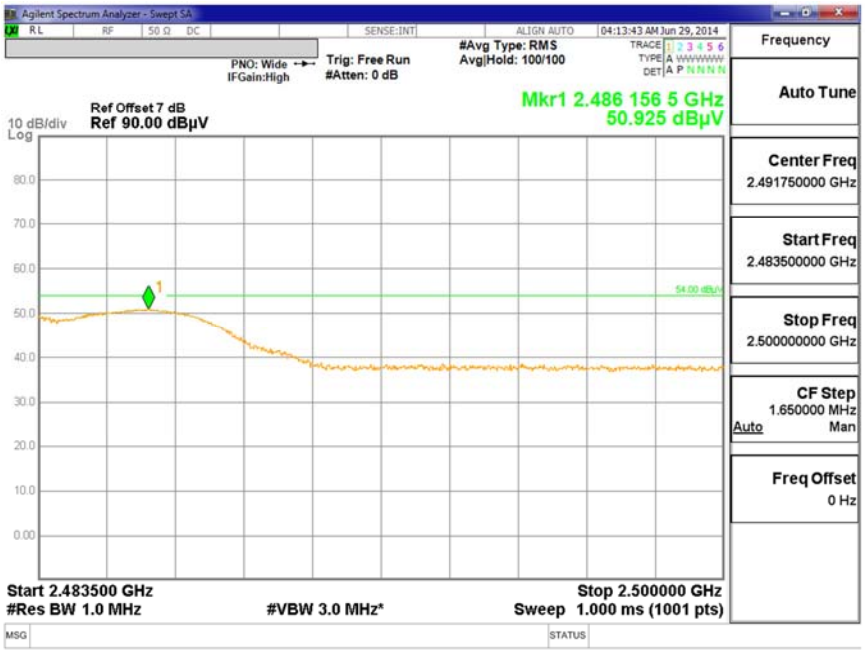
HIGH CHANNEL BANDEDGE, AVERAGE, HORIZ



HIGH CHANNEL BANDEDGE, PEAK, VERT

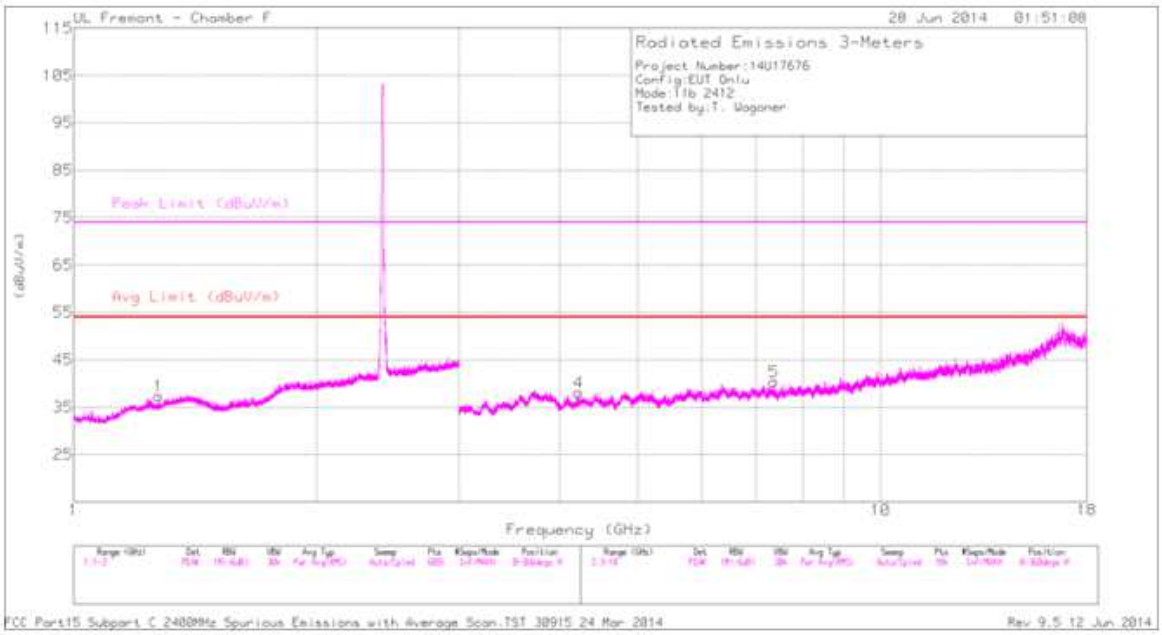


HIGH CHANNEL BANDEDGE, AVERAGE, VERT

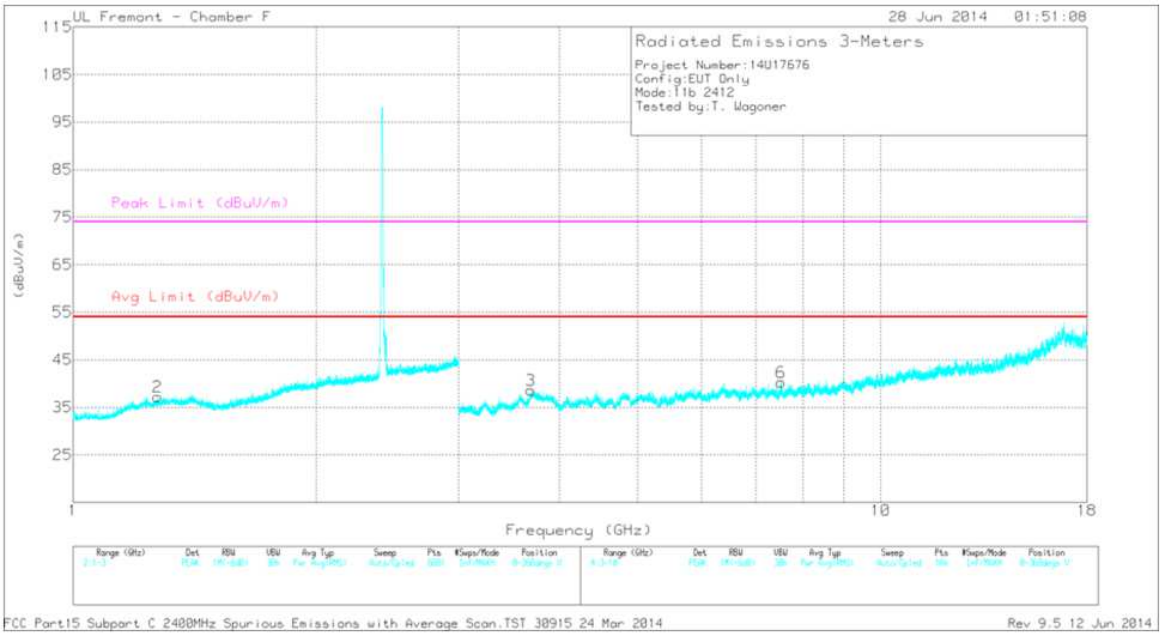


HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT, CH 1



LOW CHANNEL VERTICAL PLOT, CH 1



DATA

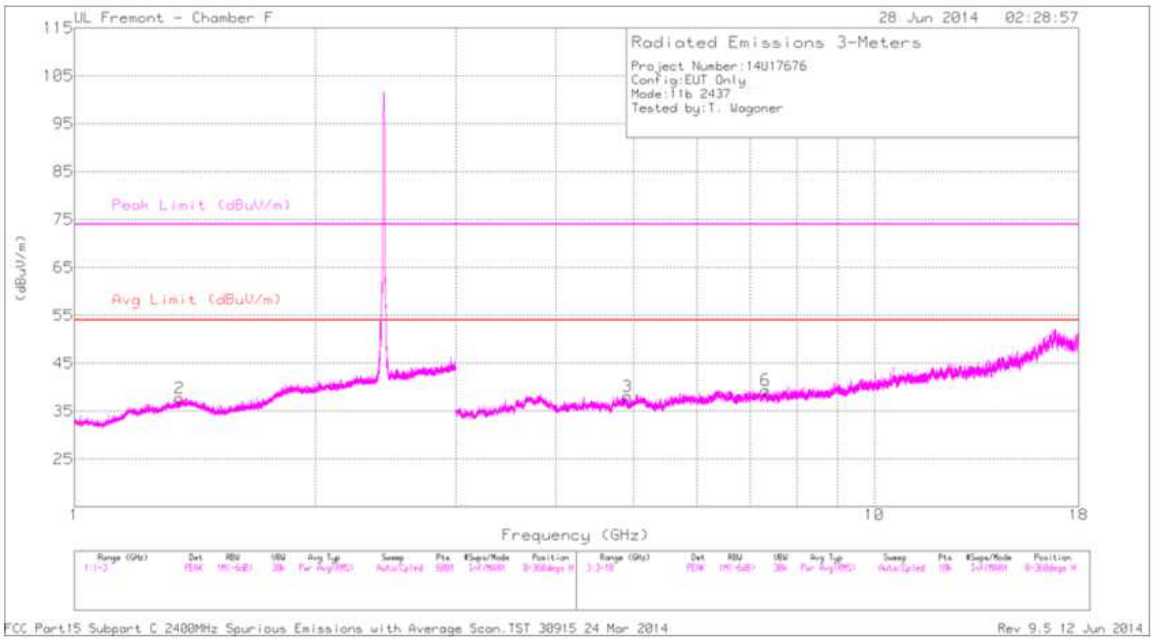
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.278	33.73	PK2	29.8	-27.1	0	36.43	-	-	74	-37.57	1	101	H
	* 1.277	30.66	MAv1	29.8	-27.1	0	33.36	54	-20.64	-	-	1	101	H
2	* 1.275	35.06	PK2	29.8	-27	0	37.86	-	-	74	-36.14	10	111	V
	* 1.275	30.61	MAv1	29.8	-27.1	0	33.31	54	-20.69	-	-	10	111	V
3	* 4.218	31.66	PK2	33.6	-28.3	0	36.96	-	-	74	-37.04	2	202	H
	* 4.22	27.02	MAv1	33.6	-28.3	0	32.32	54	-21.68	-	-	2	202	H
4	* 7.376	32.43	PK2	35.6	-25.9	0	42.13	-	-	74	-31.87	136	100	H
	* 7.376	25.34	MAv1	35.6	-25.9	0	35.04	54	-18.96	-	-	136	100	H
5	* 3.681	34.74	PK2	34.9	-29.2	0	40.44	-	-	74	-33.56	186	202	V
	* 3.684	27.92	MAv1	34.9	-29.2	0	33.62	54	-20.38	-	-	186	202	V
6	* 7.53	32.35	PK2	35.6	-25.9	0	42.05	-	-	74	-31.95	51	389	V
	* 7.53	25.39	MAv1	35.6	-25.9	0	35.09	54	-18.91	-	-	51	389	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

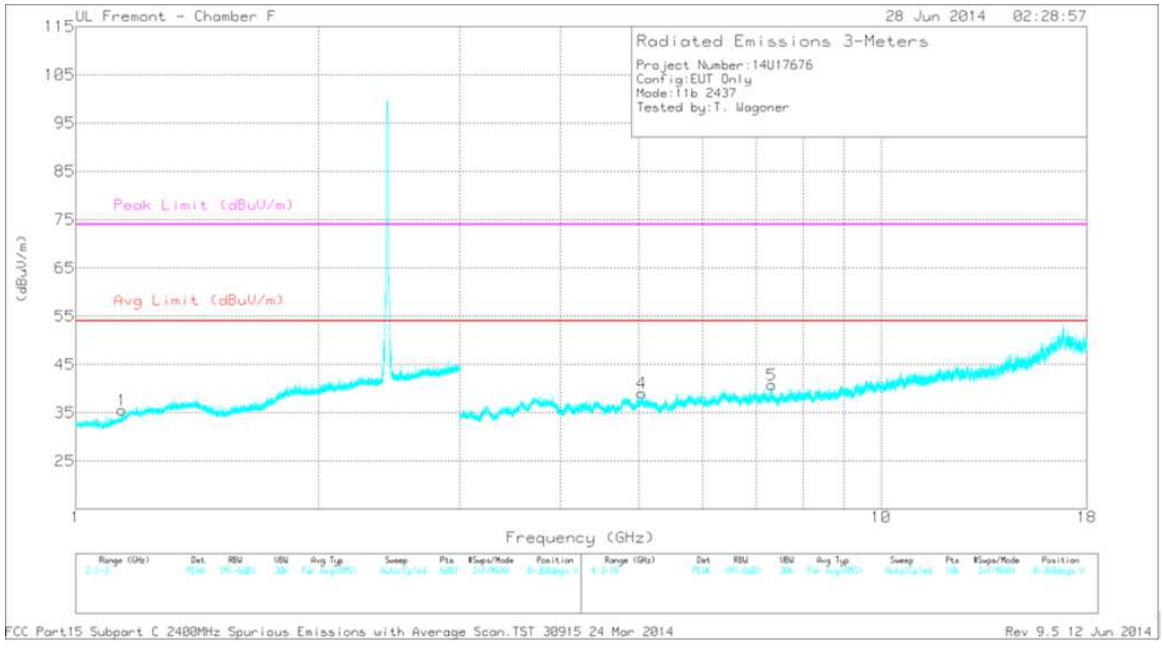
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL HORIZONTAL PLOT, CH 6



MID CHANNEL VERTICAL PLOT, CH 6



DATA

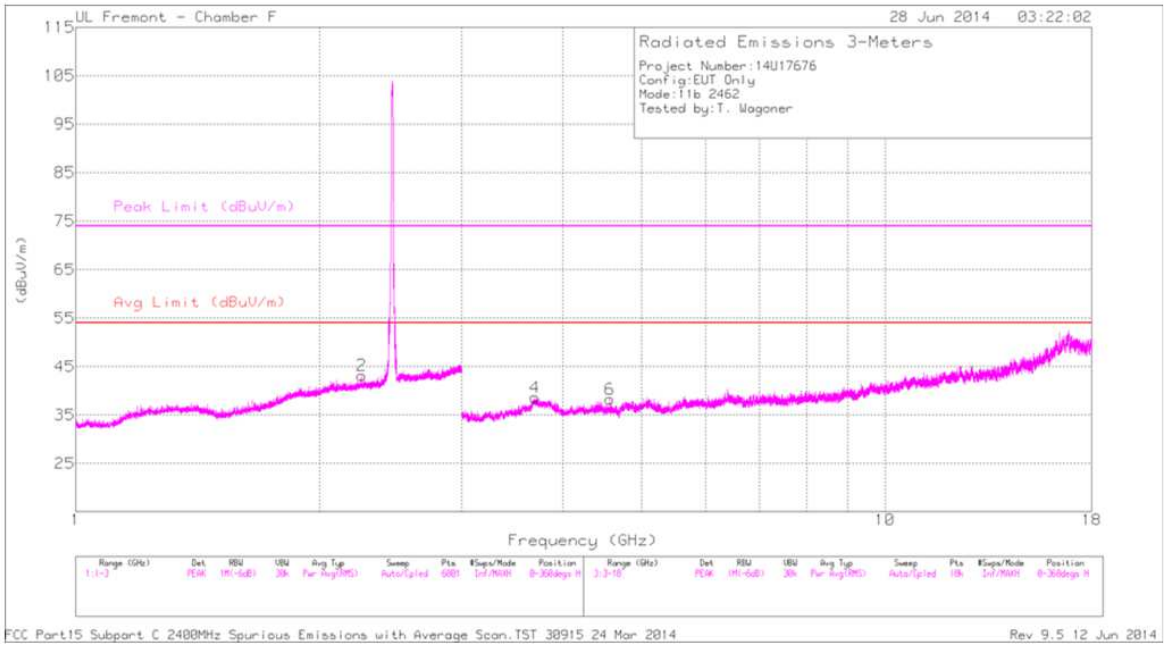
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.354	34.5	PK2	29.6	-26.3	0	37.8	-	-	74	-36.2	0	292	H
	* 1.35	30.22	MAv1	29.6	-26.4	0	33.42	54	-20.58	-	-	0	292	H
2	* 1.138	35.02	PK2	28.1	-27.3	0	35.82	-	-	74	-38.18	0	101	V
	* 1.139	30.76	MAv1	28.1	-27.2	0	31.66	54	-22.34	-	-	0	101	V
3	* 4.92	33.89	PK2	34.2	-29	0	39.09	-	-	74	-34.91	145	172	H
	* 4.92	26.95	MAv1	34.2	-29	0	32.15	54	-21.85	-	-	145	172	H
4	* 7.31	33.64	PK2	35.6	-26.6	0	42.64	-	-	74	-31.36	282	336	H
	* 7.31	26.67	MAv1	35.6	-26.6	0	35.67	54	-18.33	-	-	282	336	H
5	* 5.04	33.96	PK2	34.3	-28.2	0	40.06	-	-	74	-33.94	5	201	V
	* 5.041	26.97	MAv1	34.3	-28.2	0	33.07	54	-20.93	-	-	5	201	V
6	* 7.31	34.48	PK2	35.6	-26.6	0	43.48	-	-	74	-30.52	176	138	V
	* 7.309	27.68	MAv1	35.6	-26.6	0	36.68	54	-17.32	-	-	176	138	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

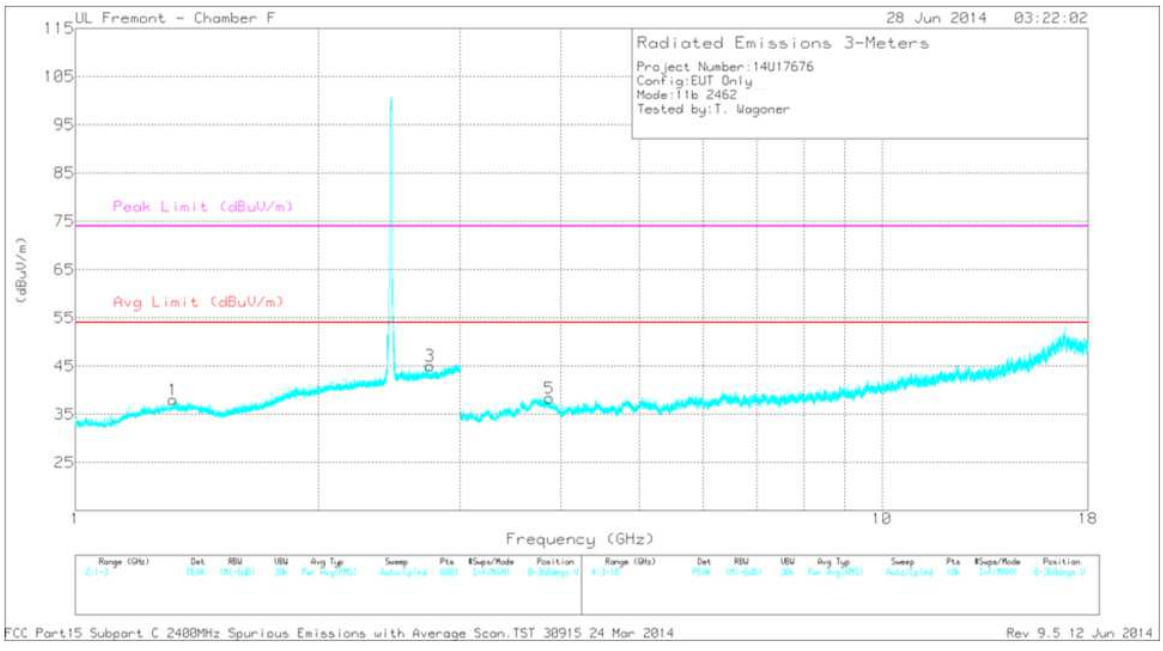
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL HORIZONTAL PLOT, CH 11



HIGH CHANNEL VERTICAL PLOT, CH 11



DATA

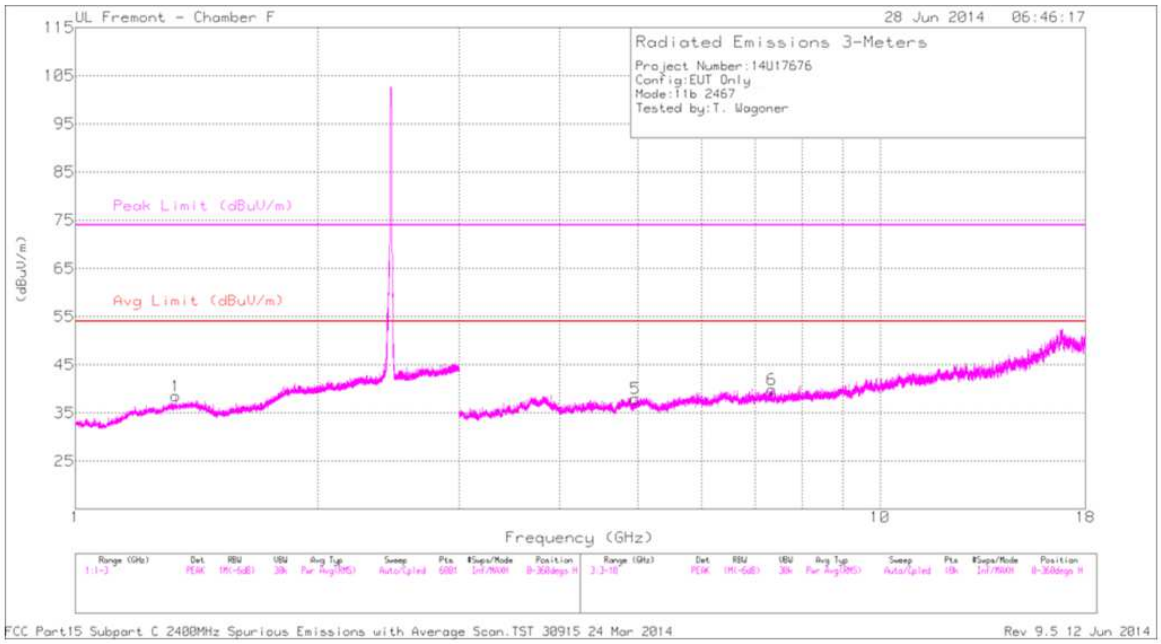
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.261	36.4	PK2	31.8	-23.5	0	44.7	-	-	74	-29.3	43	100	H
	* 2.261	29.7	MAv1	31.8	-23.4	0	38.1	54	-15.9	-	-	43	100	H
2	* 1.318	36.92	PK2	29.9	-26.8	0	40.02	-	-	74	-33.98	31	202	V
	* 1.327	30.2	MAv1	29.8	-26.6	0	33.4	54	-20.6	-	-	31	202	V
3	* 2.753	36.42	PK2	32.8	-22.8	0	46.42	-	-	74	-27.58	353	202	V
	* 2.749	29.75	MAv1	32.8	-22.7	0	39.85	54	-14.15	-	-	353	202	V
4	* 3.691	35.12	PK2	34.9	-29.3	0	40.72	-	-	74	-33.28	0	101	H
	* 3.688	27.71	MAv1	34.9	-29.2	0	33.41	54	-20.59	-	-	0	101	H
5	* 4.576	33.5	PK2	34	-28.3	0	39.2	-	-	74	-34.8	310	174	H
	* 4.581	26.45	MAv1	34	-28.3	0	32.15	54	-21.85	-	-	310	174	H
6	* 3.869	34.64	PK2	34.1	-29.2	0	39.54	-	-	74	-34.46	5	202	V
	* 3.869	27.8	MAv1	34.1	-29.2	0	32.7	54	-21.3	-	-	5	202	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

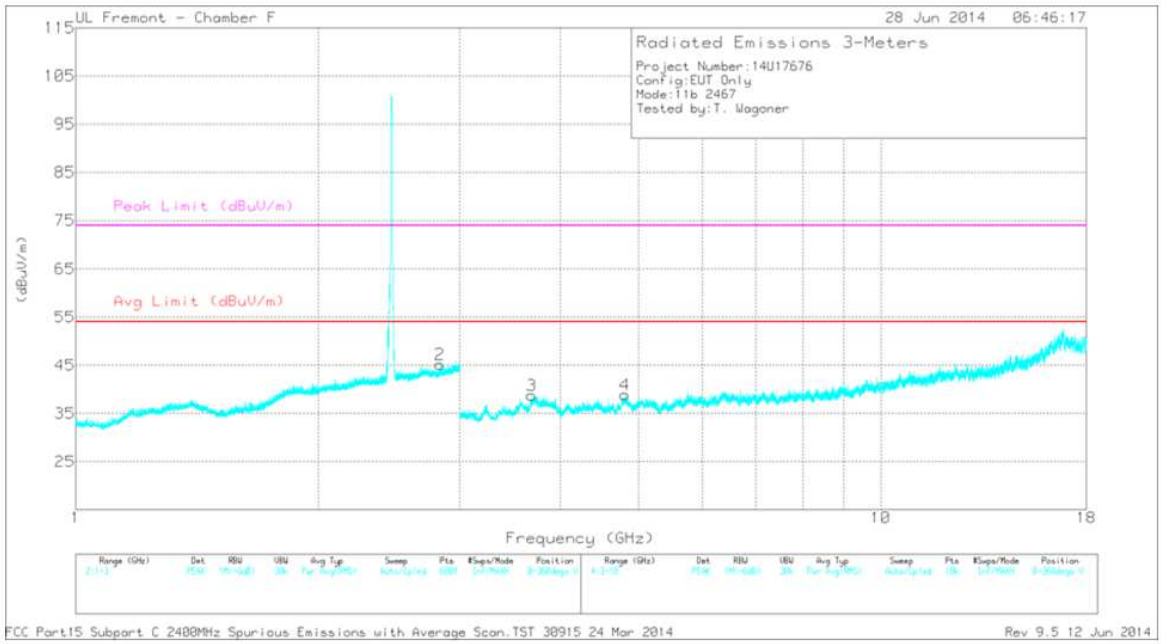
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL HORIZONTAL PLOT, CH 12



HIGH CHANNEL VERTICAL PLOT, CH 12



DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fltr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.334	35.22	PK	29.8	-26.5	0	38.52	-	-	74	-35.48	0-360	201	H
2	* 2.833	34.97	PK	33	-22.8	0	45.17	-	-	74	-28.83	0-360	101	V
5	* 4.969	32.99	PK	34.2	-29.2	0	37.99	-	-	74	-36.01	0-360	201	H
6	* 7.343	30.78	PK	35.6	-26.5	0	39.88	-	-	74	-34.12	0-360	100	H
3	* 3.685	33.05	PK	34.9	-29.2	0	38.75	-	-	74	-35.25	0-360	201	V
4	* 4.811	32.08	PK	34.1	-27.3	0	38.88	-	-	74	-35.12	0-360	201	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Radiated Emissions

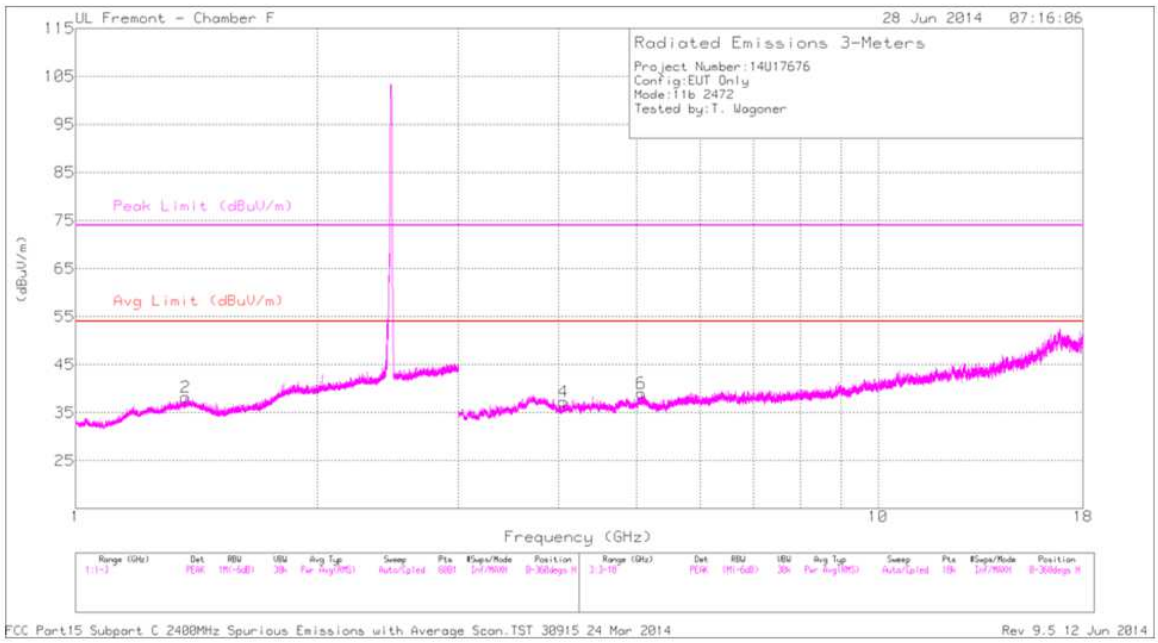
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.332	34.91	PK2	29.8	-26.5	0	38.21	-	-	74	-35.79	0	100	H
* 1.329	30.54	MAv1	29.8	-26.5	0	33.84	54	-20.16	-	-	0	100	H
* 2.835	34.57	PK2	33	-22.7	0	44.87	-	-	74	-29.13	10	106	V
* 2.831	30.33	MAv1	33	-22.9	0	40.43	54	-13.57	-	-	10	106	V
* 4.973	35.95	PK2	34.2	-29.2	0	40.95	-	-	74	-33.05	61	202	H
* 4.967	31.16	MAv1	34.2	-29.2	0	36.16	54	-17.84	-	-	61	202	H
* 7.34	31.71	PK2	35.6	-26.7	0	40.61	-	-	74	-33.39	10	101	H
* 7.344	26.88	MAv1	35.6	-26.5	0	35.98	54	-18.02	-	-	10	101	H
* 3.682	34.51	PK2	34.9	-29.2	0	40.21	-	-	74	-33.79	303	202	V
* 3.681	27.59	MAv1	34.9	-29.2	0	33.29	54	-20.71	-	-	303	202	V
* 4.816	33.33	PK2	34.1	-27.3	0	40.13	-	-	74	-33.87	293	326	V
* 4.813	26.42	MAv1	34.1	-27.3	0	33.22	54	-20.78	-	-	293	326	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

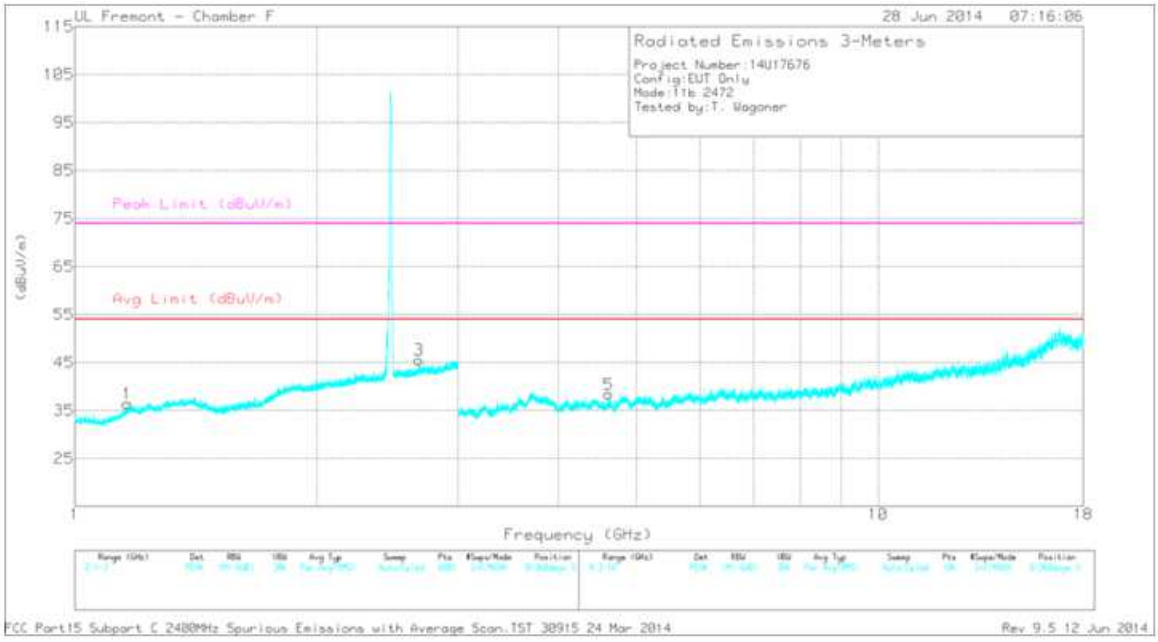
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL HORIZONTAL PLOT, CH 13



HIGH CHANNEL VERTICAL PLOT, CH 13



DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fltr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 1.372	34.84	PK	29.5	-26.1	0	38.24	-	-	74	-35.76	0-360	227	H
1	* 1.163	34.73	PK	28.4	-26.7	0	36.43	-	-	74	-37.57	0-360	101	V
3	* 2.682	35.68	PK	32.7	-22.8	0	45.58	-	-	74	-28.42	0-360	101	V
4	* 4.057	32.42	PK	33.7	-28.8	0	37.32	-	-	74	-36.68	0-360	201	H
6	* 5.072	32.37	PK	34.3	-27.6	0	39.07	-	-	74	-34.93	0-360	100	H
5	* 4.622	33.18	PK	34.1	-28.9	0	38.38	-	-	74	-35.62	0-360	101	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.372	34.56	PK2	29.5	-26.1	0	37.96	-	-	74	-36.04	360	100	H
* 1.369	30.26	MAv1	29.5	-26.1	0	33.66	54	-20.34	-	-	360	100	H
* 1.162	34.89	PK2	28.4	-26.7	0	36.59	-	-	74	-37.41	9	106	V
* 1.16	30.6	MAv1	28.4	-26.7	0	32.3	54	-21.7	-	-	9	106	V
* 2.677	36.59	PK2	32.7	-22.8	0	46.49	-	-	74	-27.51	139	120	V
* 2.684	29.83	MAv1	32.7	-22.8	0	39.73	54	-14.27	-	-	139	120	V
* 4.054	33.81	PK2	33.7	-28.7	0	38.81	-	-	74	-35.19	116	101	H
* 4.055	27.02	MAv1	33.7	-28.8	0	31.92	54	-22.08	-	-	116	101	H
* 5.07	33.3	PK2	34.3	-27.6	0	40	-	-	74	-34	351	398	H
* 5.07	26.34	MAv1	34.3	-27.6	0	33.04	54	-20.96	-	-	351	398	H
* 4.624	34.17	PK2	34.1	-28.9	0	39.37	-	-	74	-34.63	254	376	V
* 4.624	27.26	MAv1	34.1	-28.9	0	32.46	54	-21.54	-	-	254	376	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

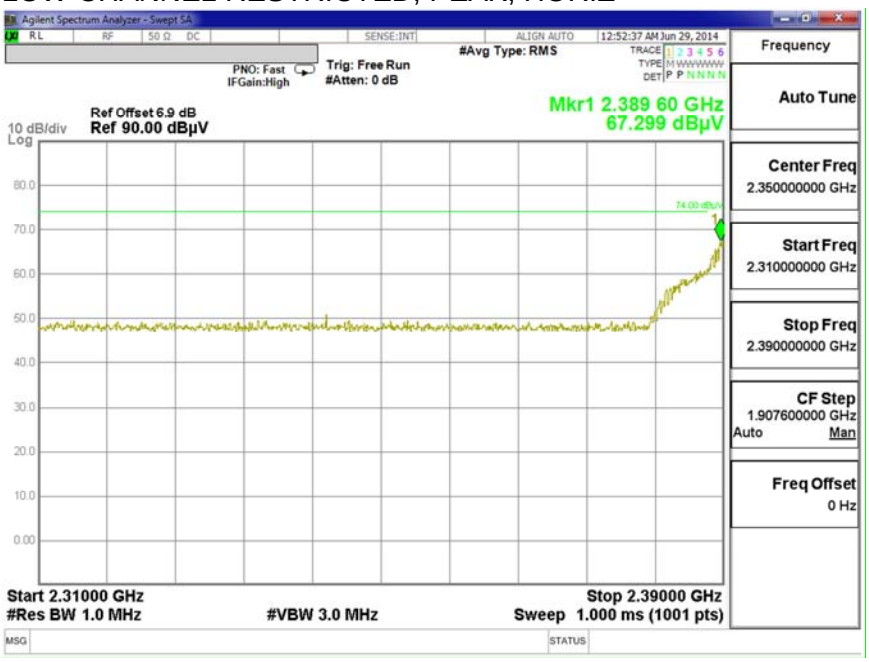
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

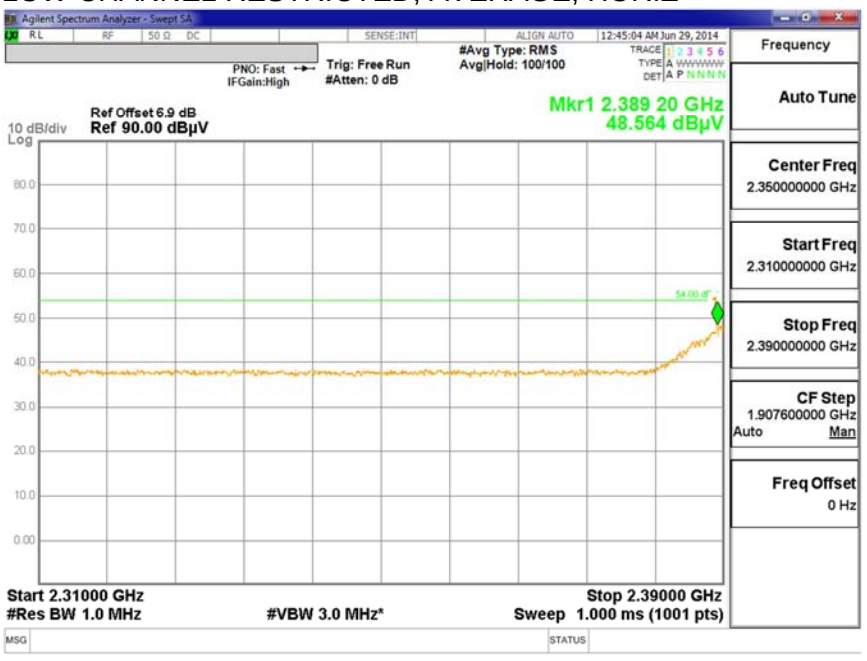
10.2.2.802.11g MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL, CHANNEL 1)

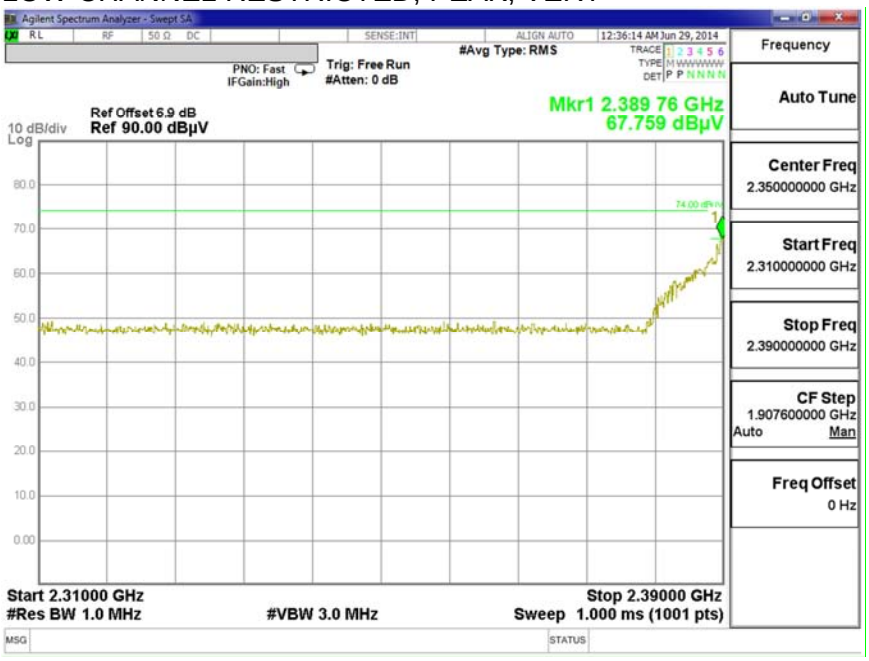
LOW CHANNEL RESTRICTED, PEAK, HORIZ



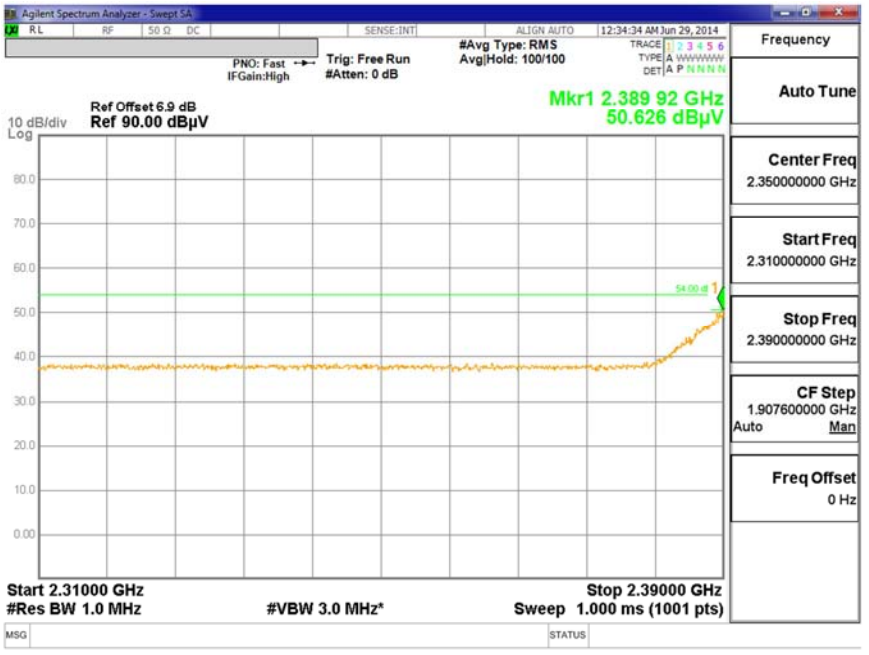
LOW CHANNEL RESTRICTED, AVERAGE, HORIZ



LOW CHANNEL RESTRICTED, PEAK, VERT

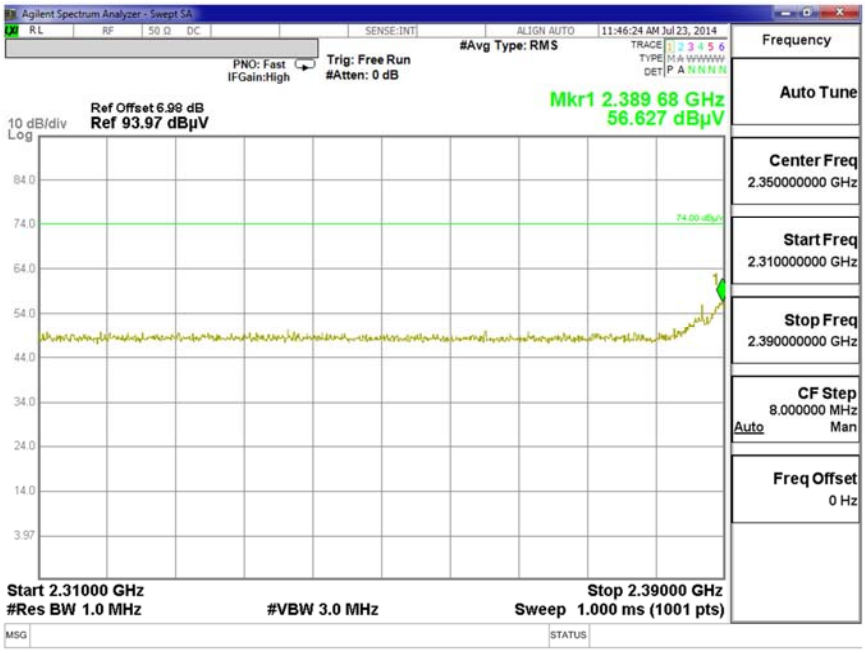


LOW CHANNEL RESTRICTED, AVERAGE, VERT

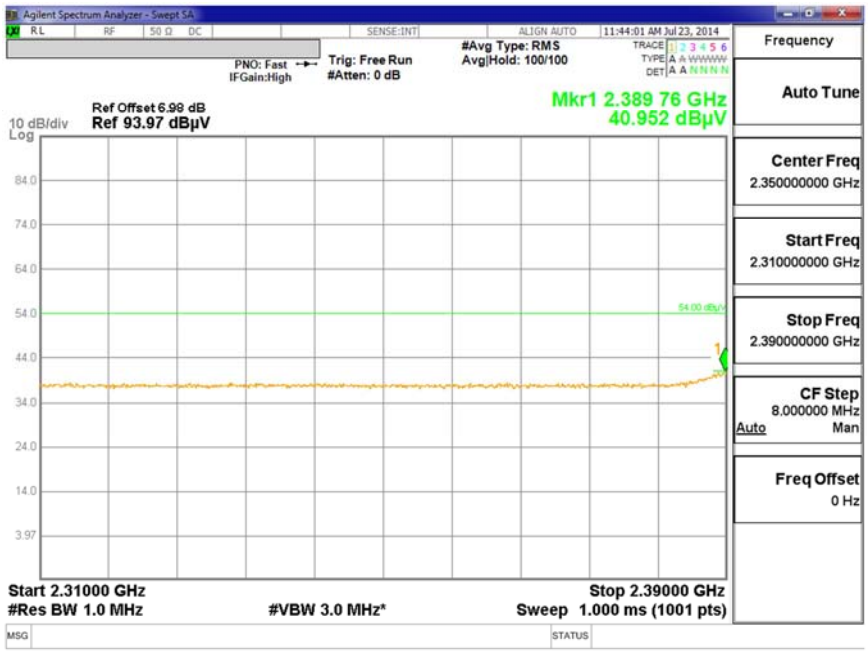


RESTRICTED BANDEDGE (LOW CHANNEL, CHANNEL 2)

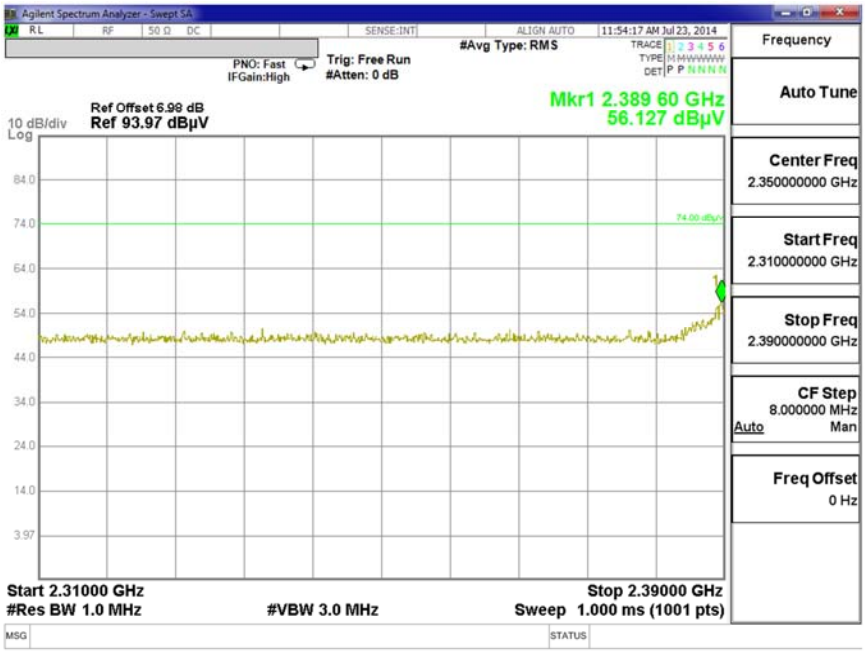
LOW CHANNEL RESTRICTED, PEAK, HORIZ



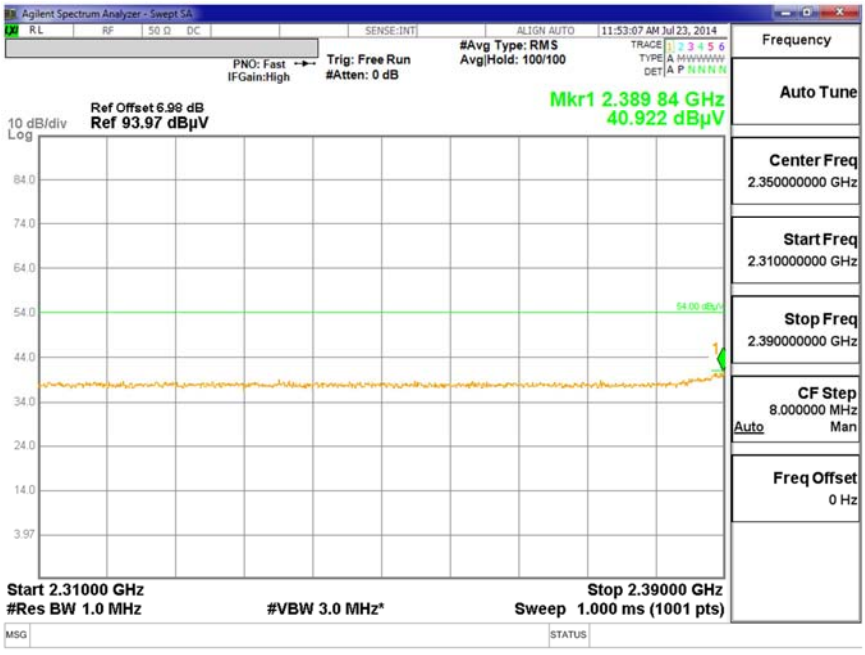
LOW CHANNEL RESTRICTED, AVERAGE, HORIZ



LOW CHANNEL RESTRICTED, PEAK, VERT

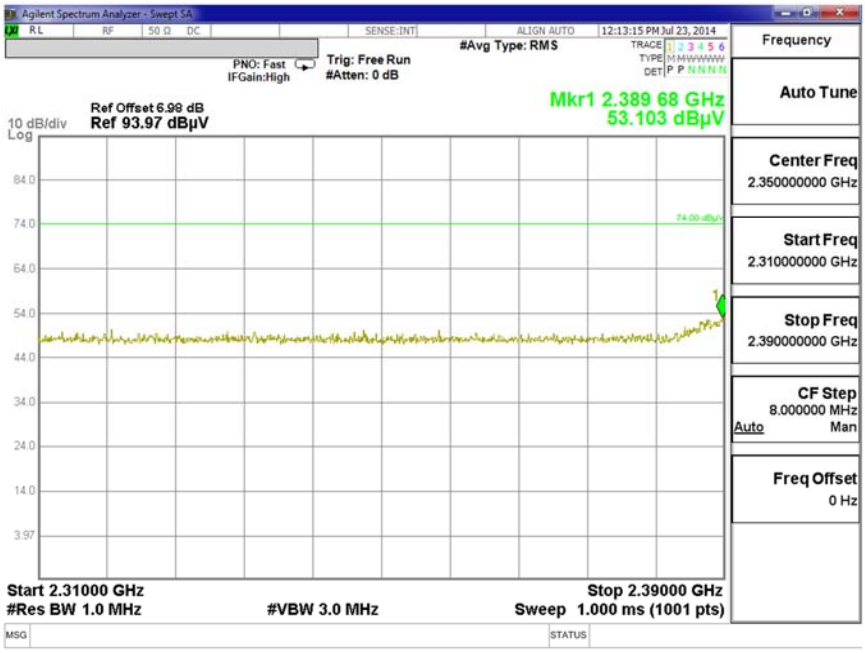


LOW CHANNEL RESTRICTED, AVERAGE, VERT

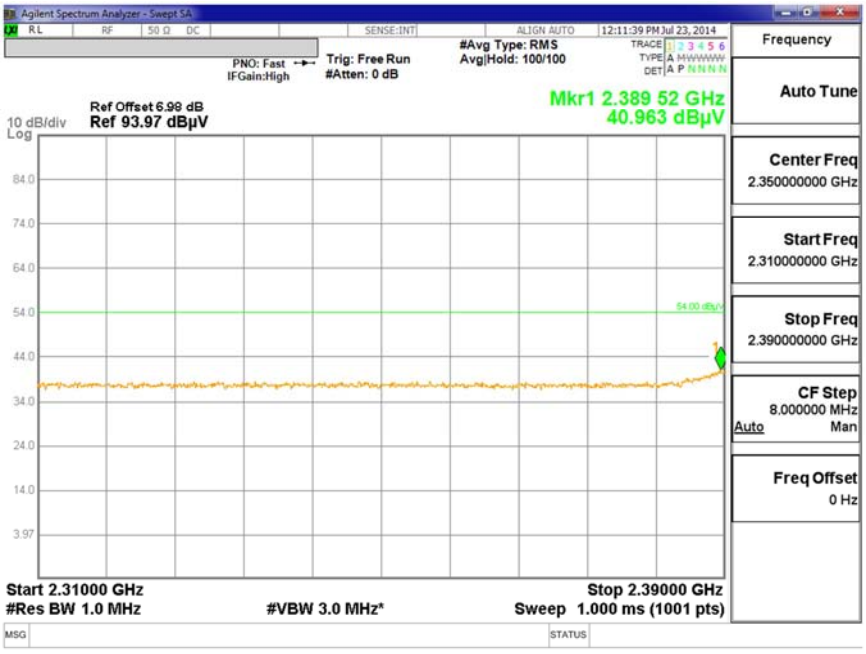


RESTRICTED BANDEDGE (LOW CHANNEL, CHANNEL 3)

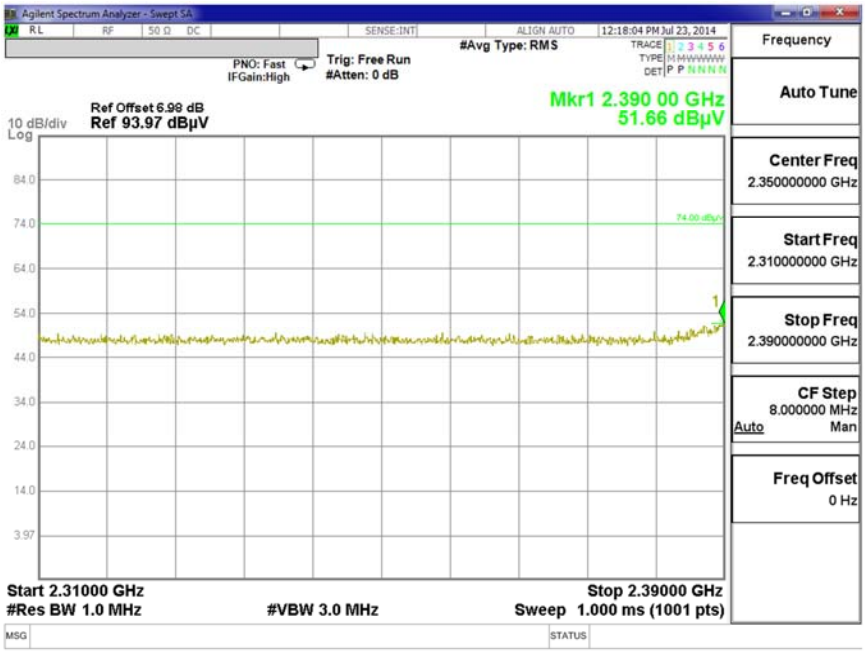
LOW CHANNEL RESTRICTED, PEAK, HORIZ



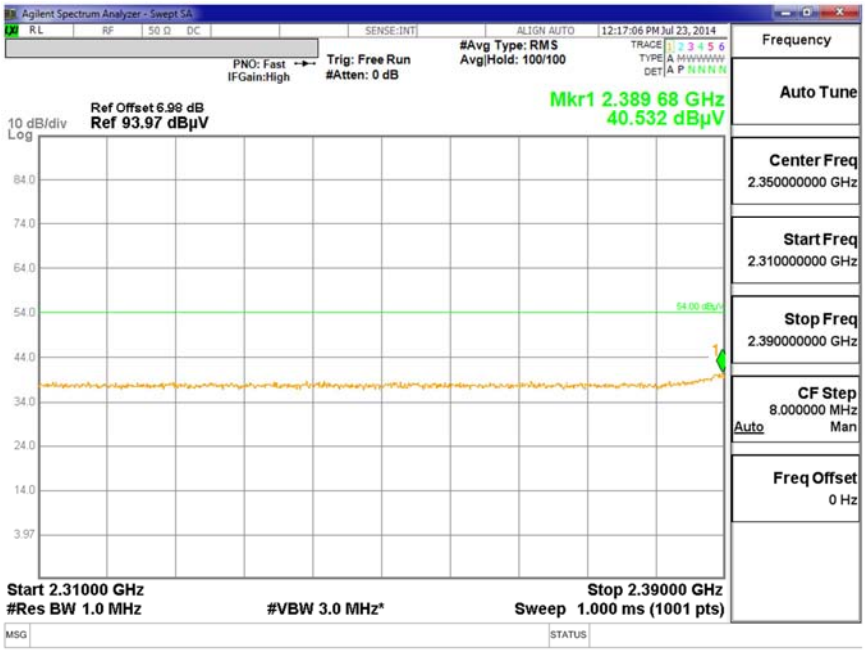
LOW CHANNEL RESTRICTED, AVERAGE, HORIZ



LOW CHANNEL RESTRICTED, PEAK, VERT

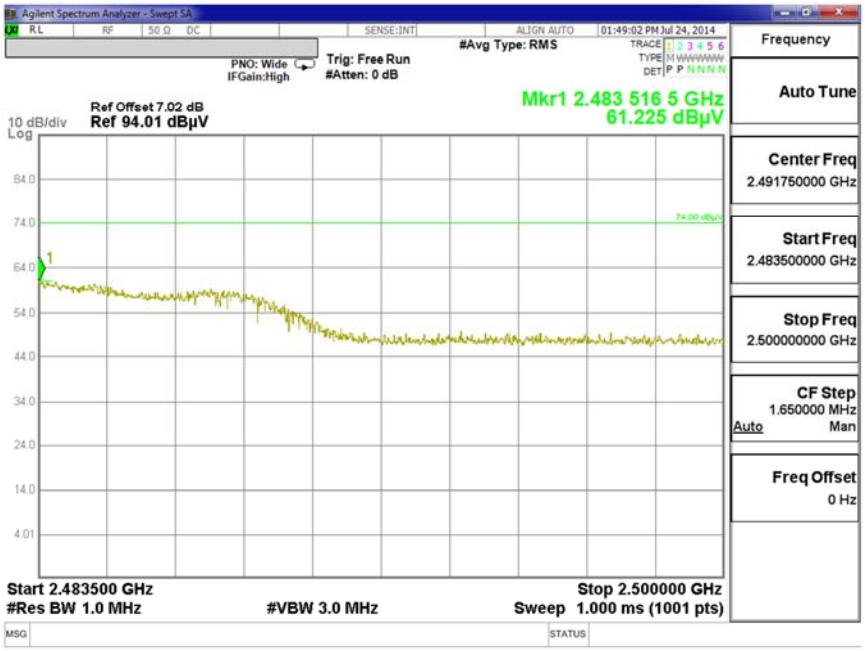


LOW CHANNEL RESTRICTED, AVERAGE, VERT

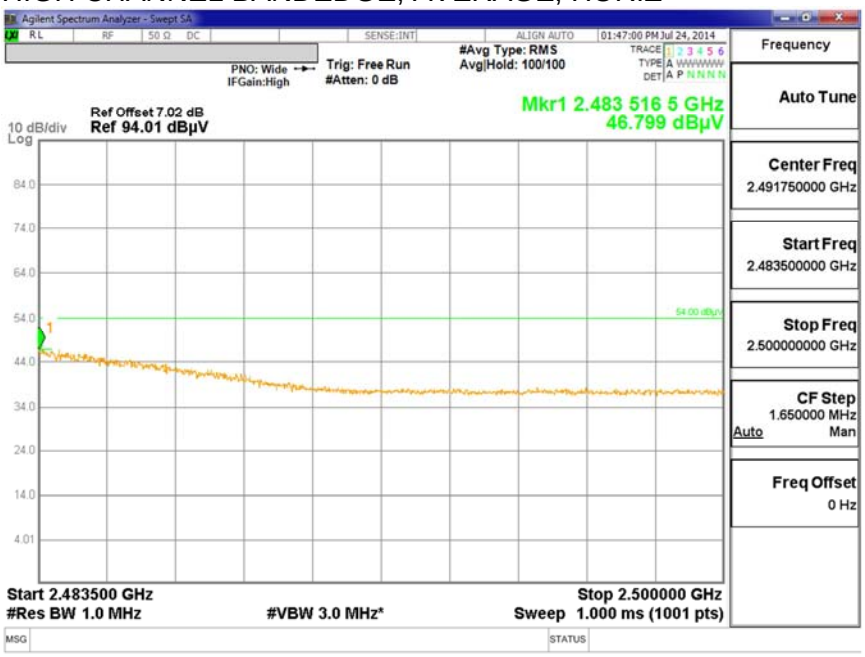


RESTRICTED BANDEDGE (HIGH CHANNEL, CHANNEL 9)

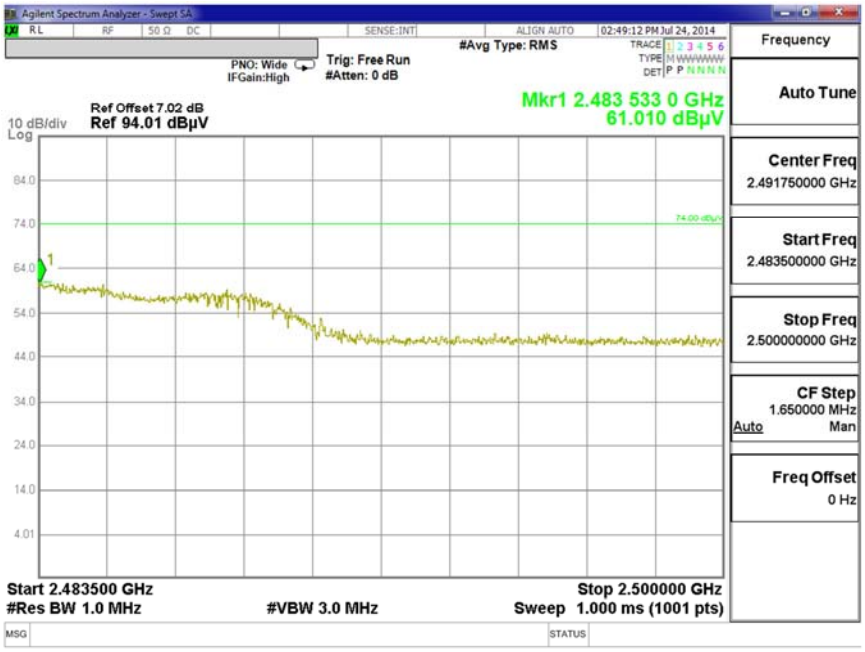
HIGH CHANNEL BANDEDGE, PEAK, HORIZ



HIGH CHANNEL BANDEDGE, AVERAGE, HORIZ



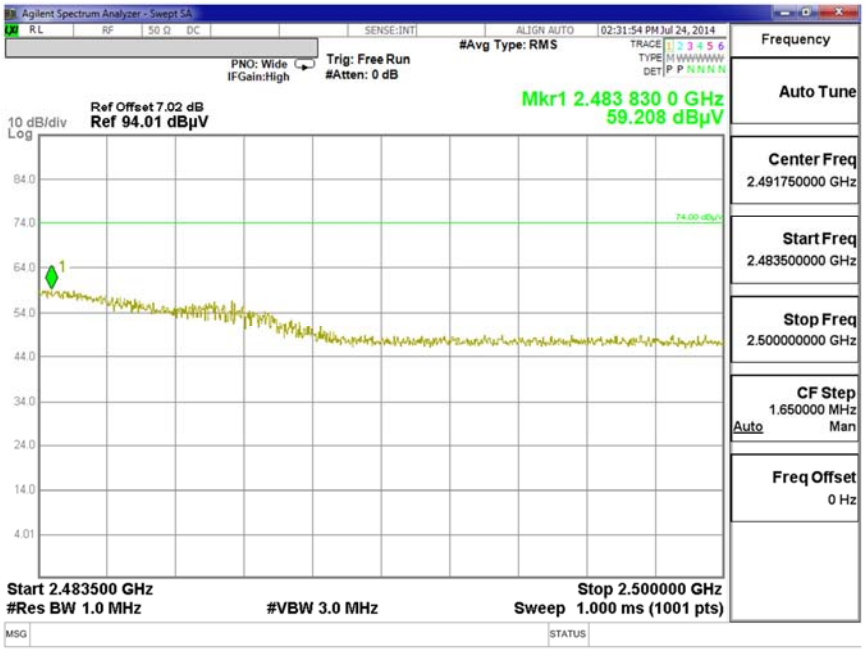
HIGH CHANNEL BANDEDGE, PEAK, VERT



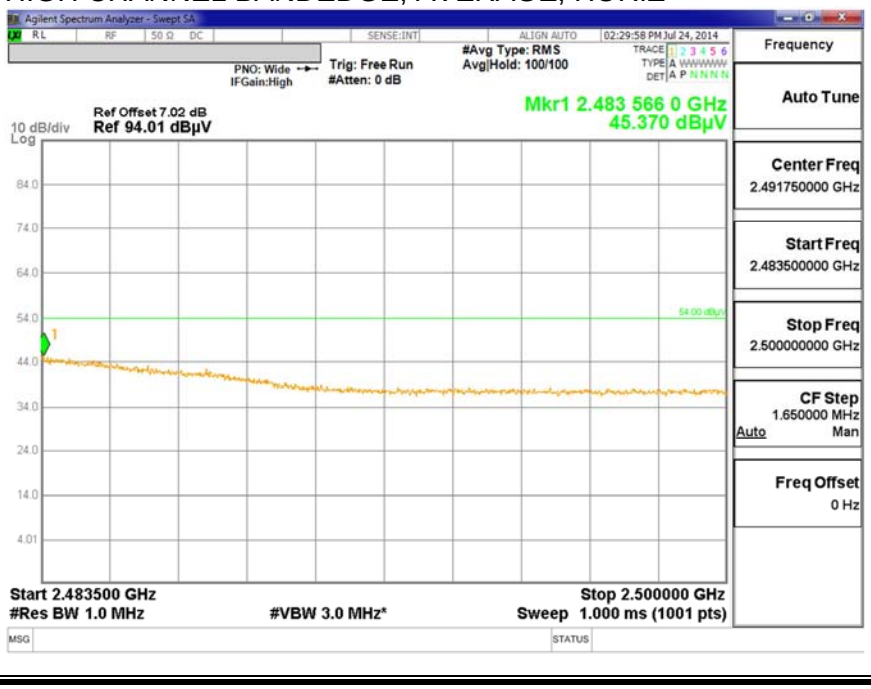
HIGH CHANNEL BANDEDGE, AVERAGE, VERT

RESTRICTED BANDEDGE (HIGH CHANNEL, CHANNEL 10)

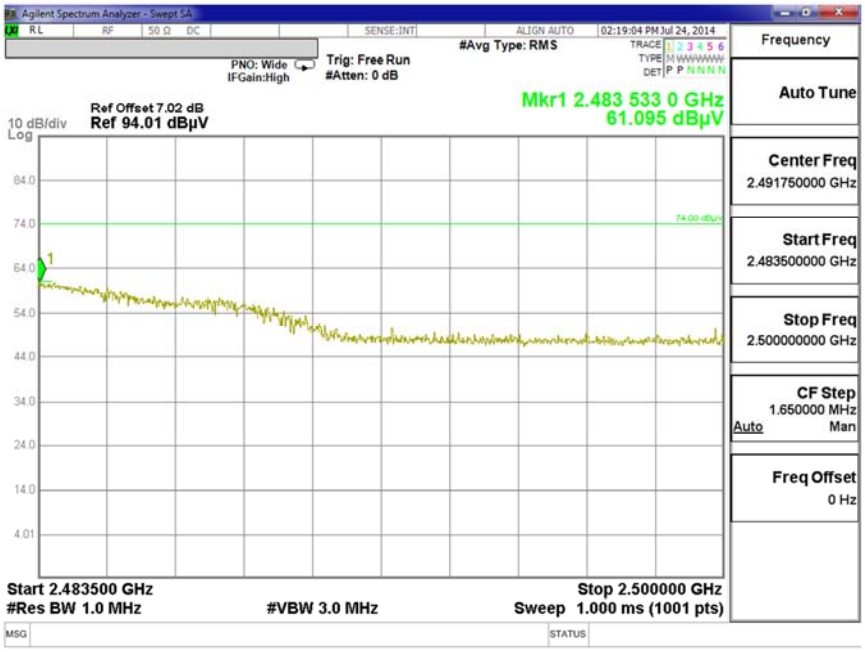
HIGH CHANNEL BANDEDGE, PEAK, HORIZ



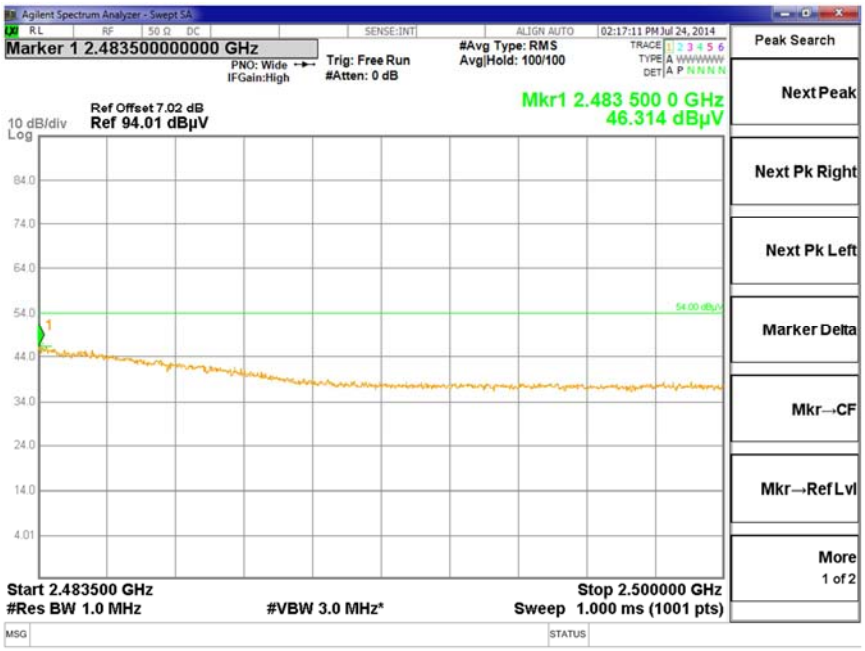
HIGH CHANNEL BANDEDGE, AVERAGE, HORIZ



HIGH CHANNEL BANDEDGE, PEAK, VERT

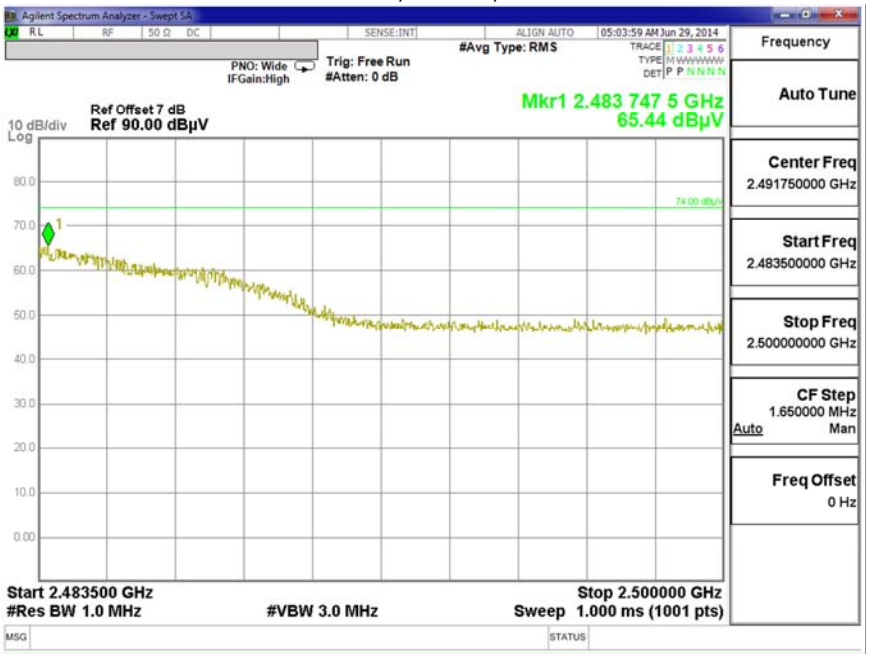


HIGH CHANNEL BANDEDGE, AVERAGE, VERT

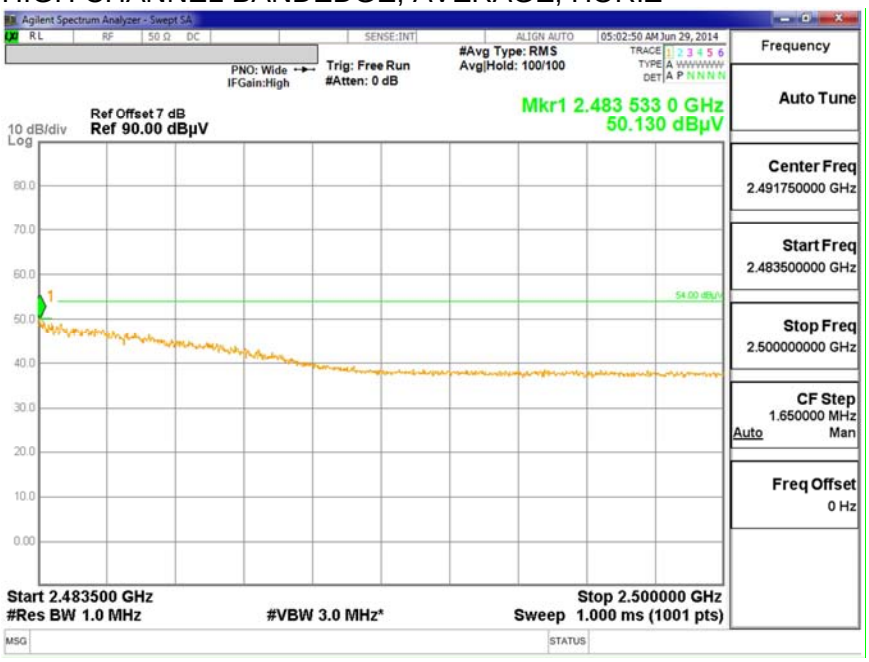


RESTRICTED BANDEDGE (HIGH CHANNEL, CHANNEL 11)

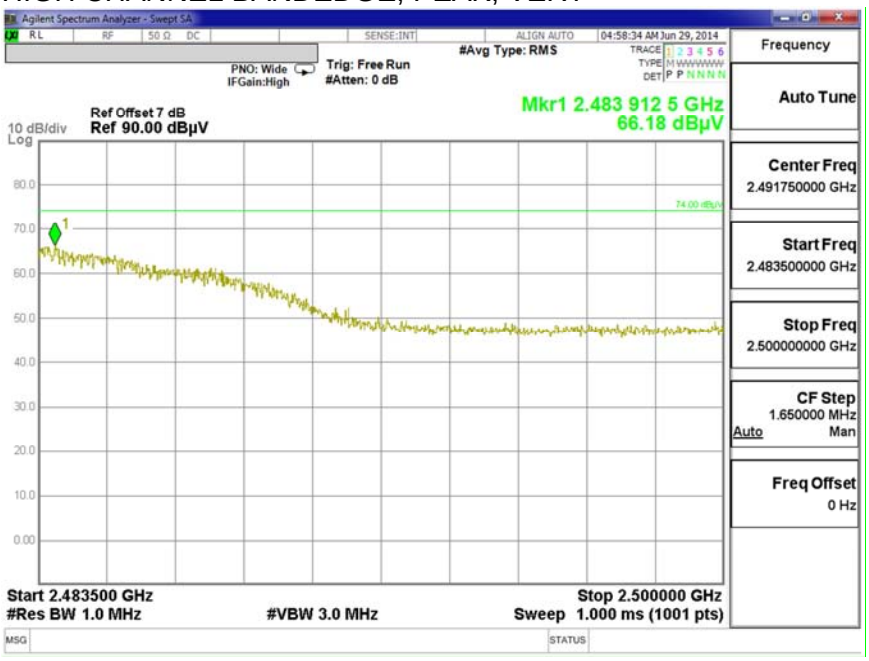
HIGH CHANNEL BANDEDGE, PEAK, HORIZ



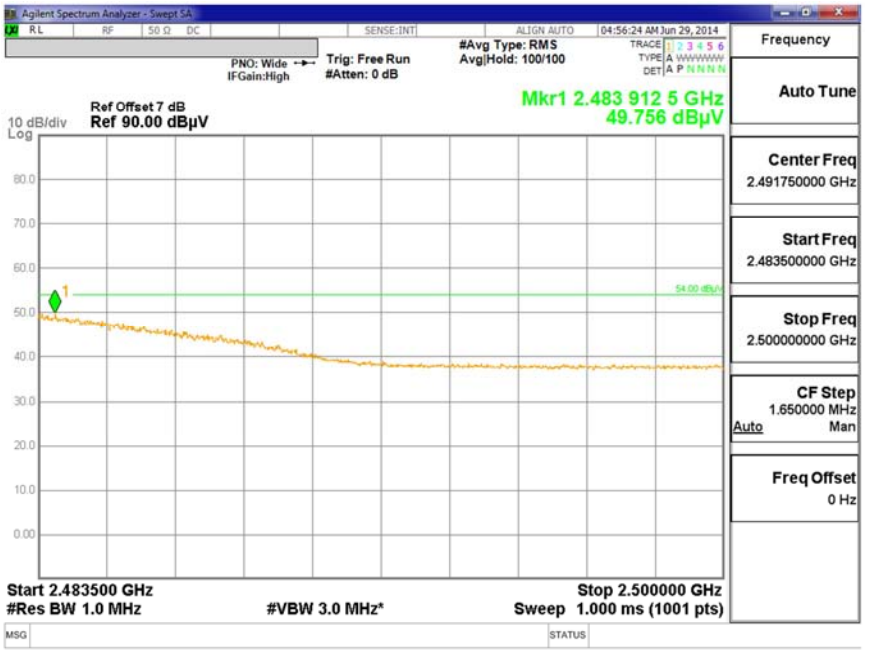
HIGH CHANNEL BANDEDGE, AVERAGE, HORIZ



HIGH CHANNEL BANDEDGE, PEAK, VERT

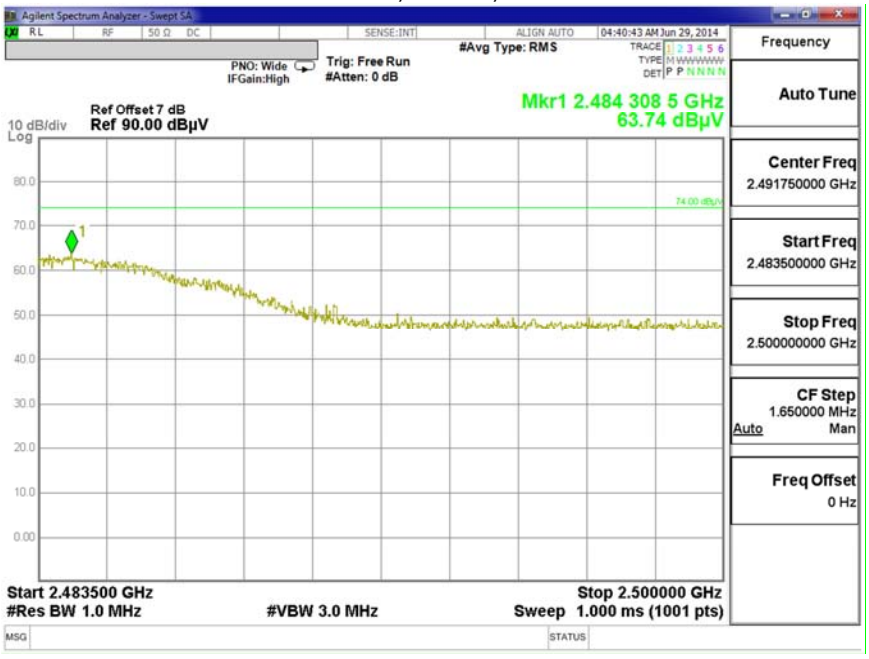


HIGH CHANNEL BANDEDGE, AVERAGE, VERT

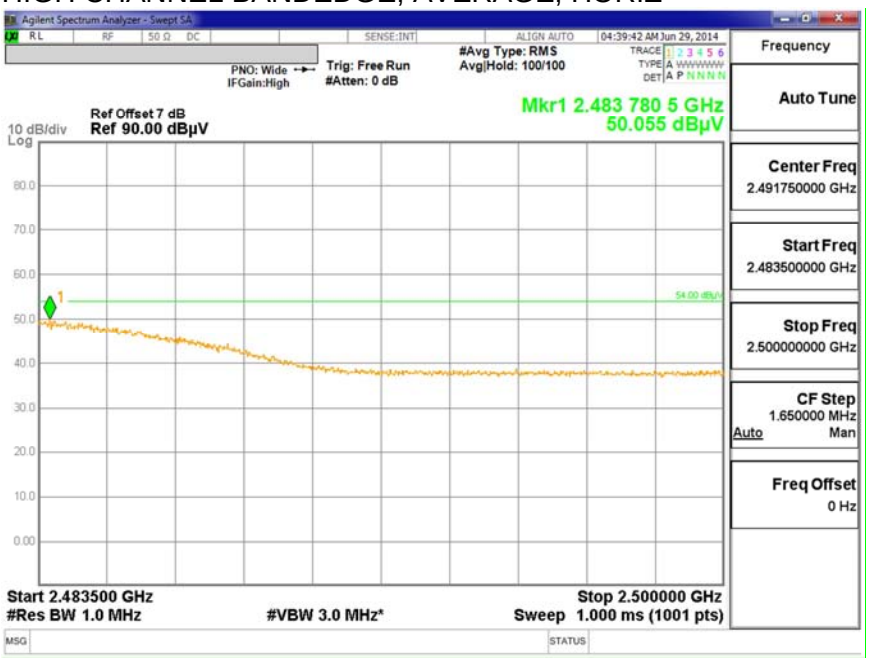


RESTRICTED BANDEDGE (HIGH CHANNEL, CHANNEL 12)

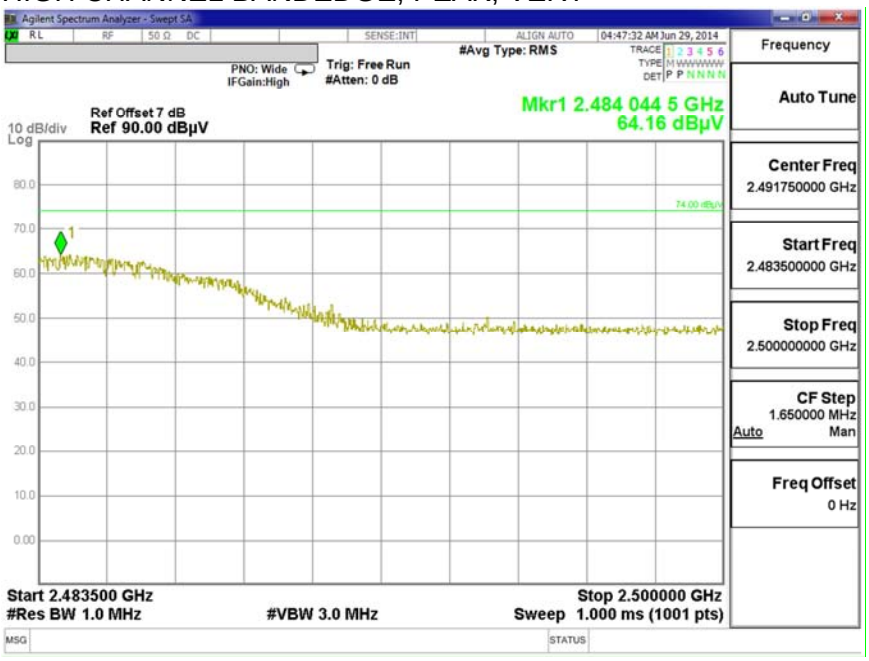
HIGH CHANNEL BANDEDGE, PEAK, HORIZ



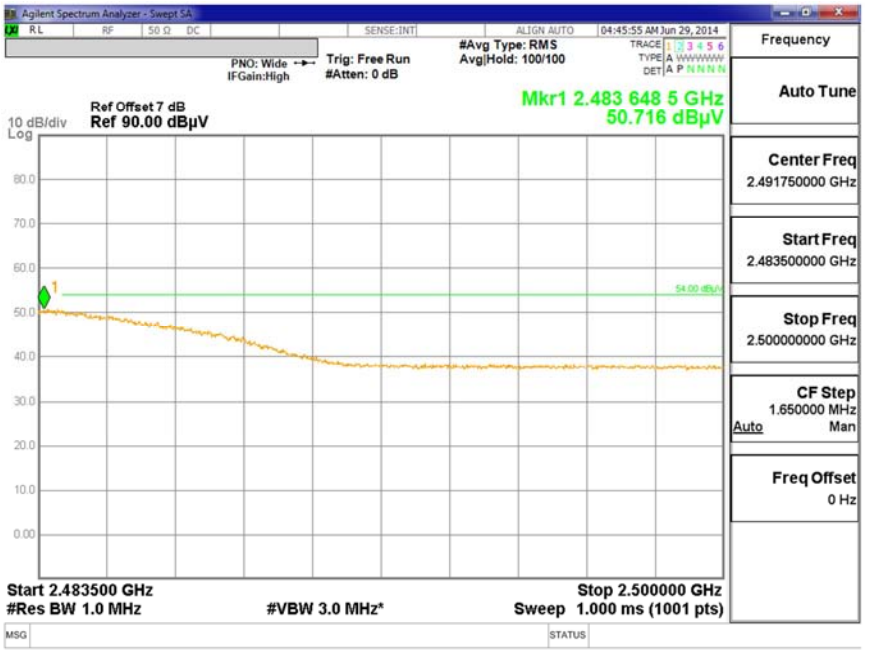
HIGH CHANNEL BANDEDGE, AVERAGE, HORIZ



HIGH CHANNEL BANDEDGE, PEAK, VERT

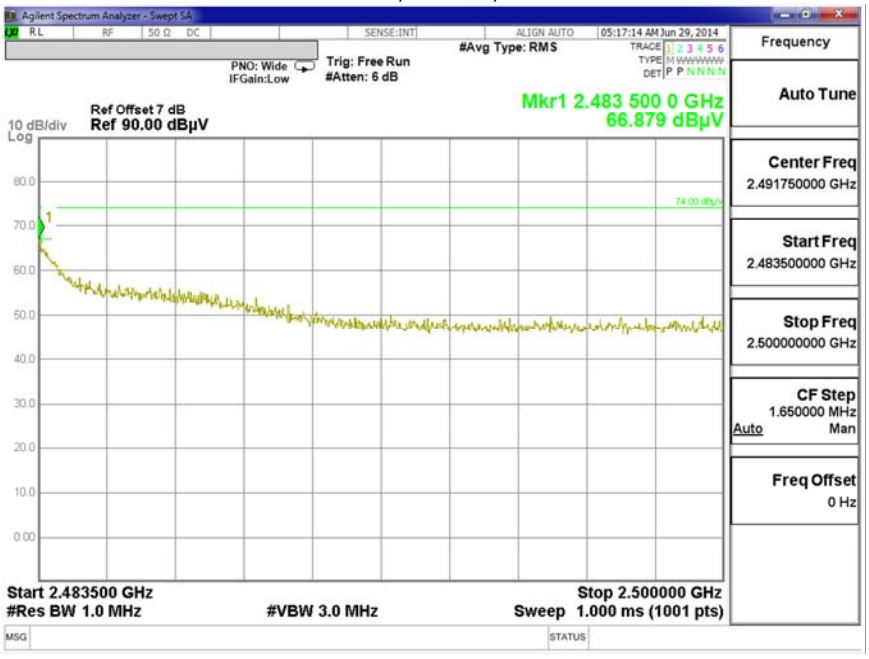


HIGH CHANNEL BANDEDGE, AVERAGE, VERT



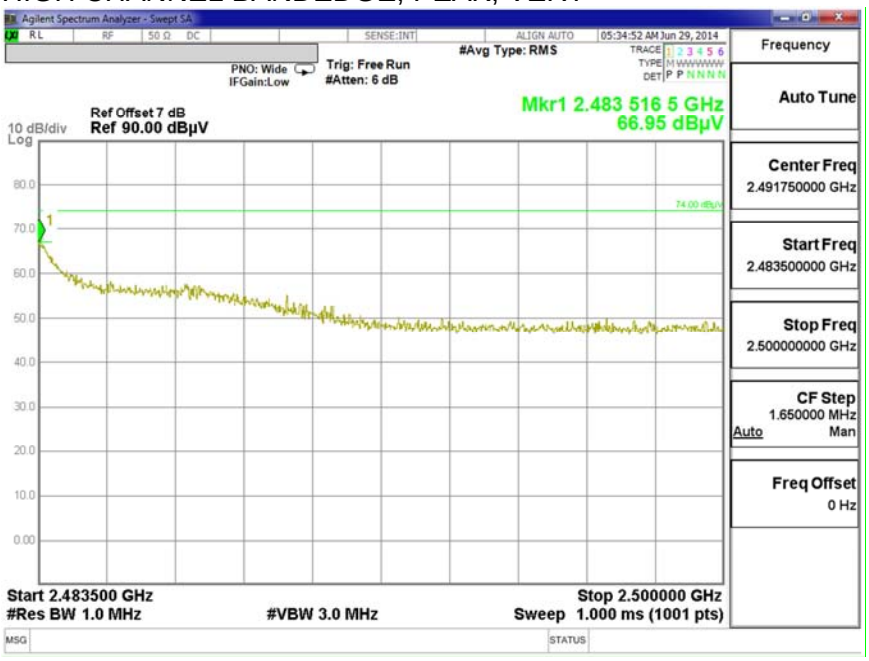
RESTRICTED BANDEDGE (HIGH CHANNEL, CHANNEL 13)

HIGH CHANNEL BANDEDGE, PEAK, HORIZ

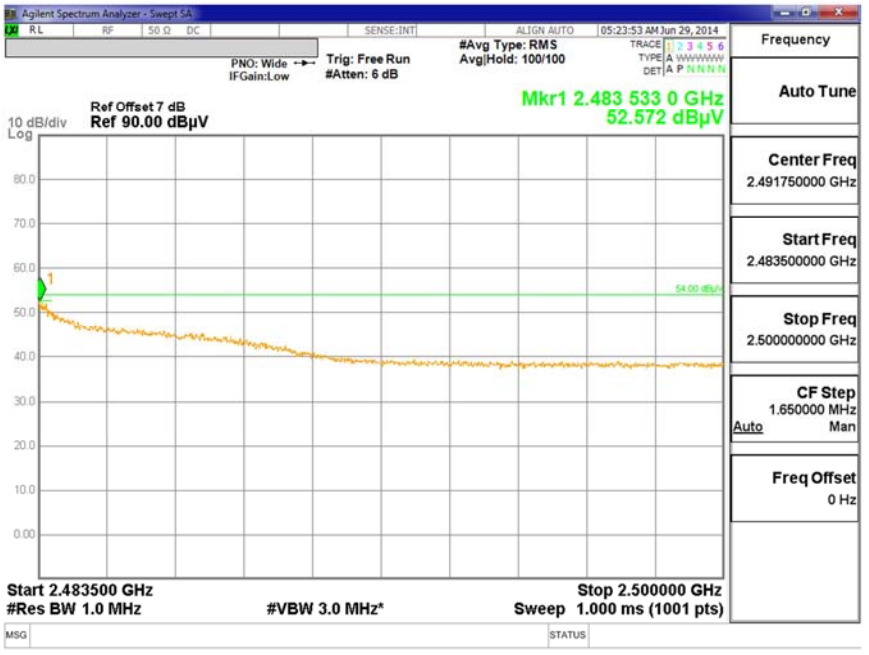


HIGH CHANNEL BANDEDGE, AVERAGE, HORIZ

HIGH CHANNEL BANDEDGE, PEAK, VERT

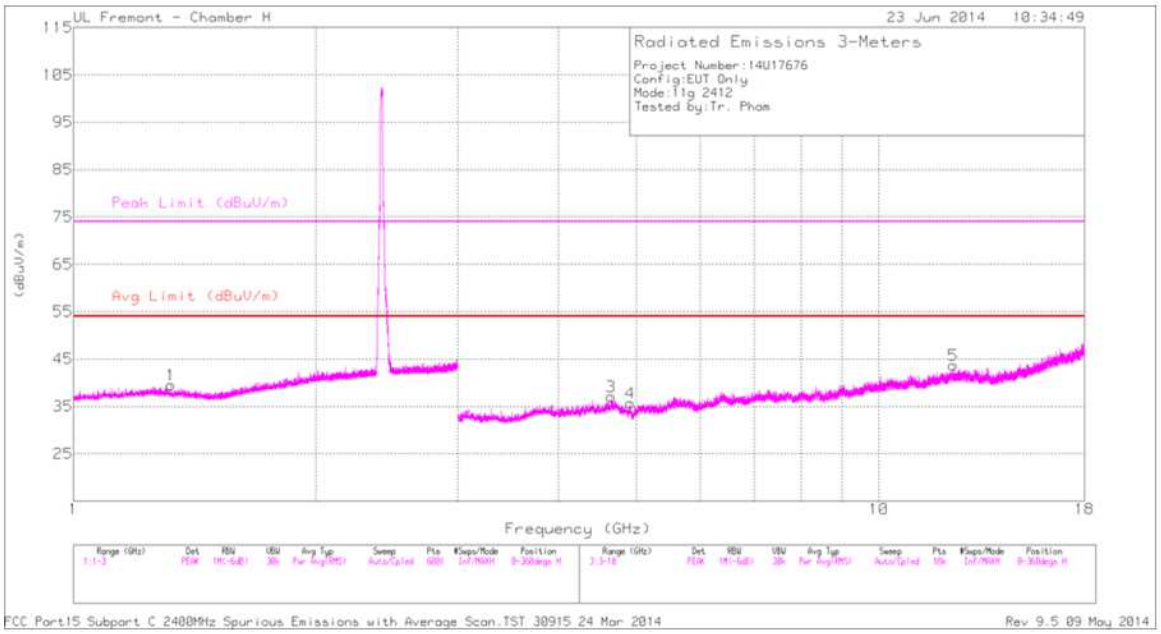


HIGH CHANNEL BANDEDGE, AVERAGE, VERT

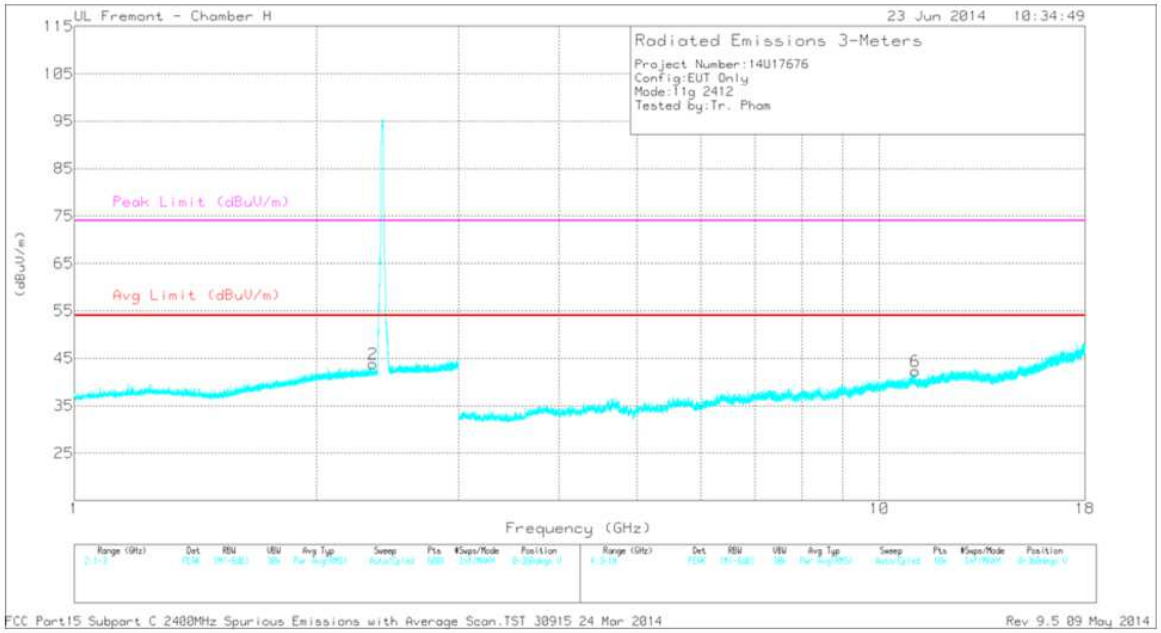


HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT, CH 1



LOW CHANNEL VERTICAL PLOT, CH 1



DATA

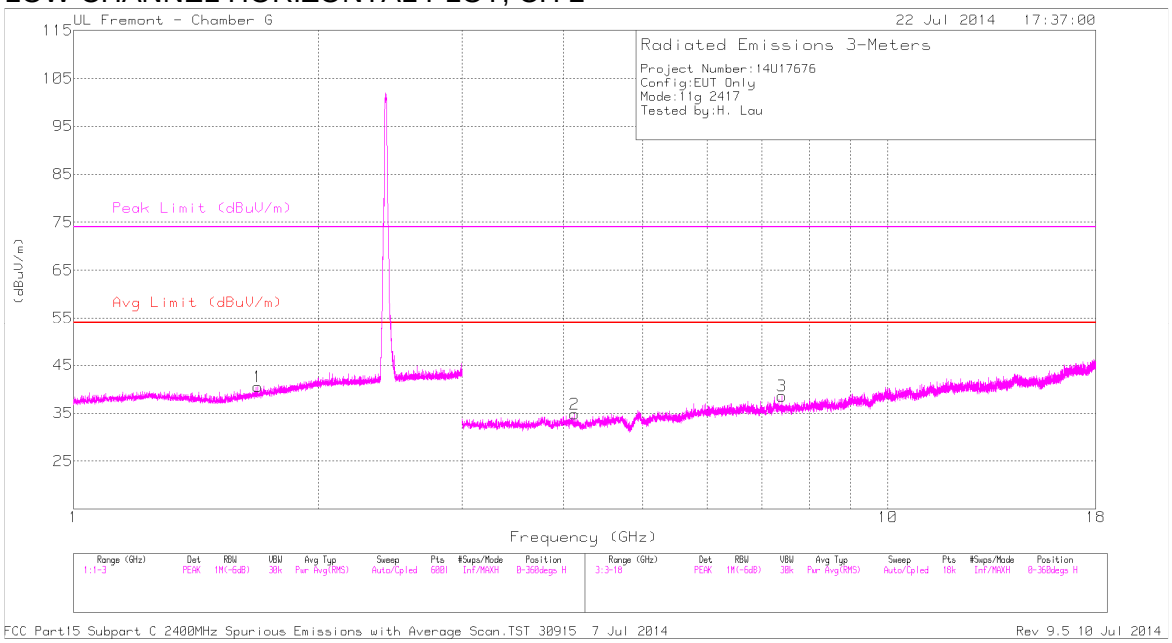
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.322	43.97	PK2	28.6	-25.7	46.87	-	-	74	-27.13	105	140	H
	* 1.321	32.11	MAv1	28.6	-25.7	35.01	54	-18.99	-	-	105	140	H
2	* 2.35	44.14	PK2	31.9	-24.6	51.44	-	-	74	-22.56	144	123	V
	* 2.35	31.74	MAv1	31.9	-24.6	39.04	54	-14.96	-	-	144	123	V
3	* 4.654	44.62	PK2	34.2	-31.8	47.02	-	-	74	-26.98	196	112	H
	* 4.653	32.48	MAv1	34.2	-31.8	34.88	54	-19.12	-	-	196	112	H
4	* 4.916	43.23	PK2	34.3	-32	45.53	-	-	74	-28.47	230	157	H
	* 4.916	31.7	MAv1	34.3	-32	34	54	-20	-	-	230	157	H
5	* 12.364	41.87	PK2	39	-25.7	55.17	-	-	74	-18.83	267	116	H
	* 12.364	29.91	MAv1	39	-25.7	43.21	54	-10.79	-	-	267	116	H
6	* 11.085	42.18	PK2	37.8	-25.6	54.38	-	-	74	-19.62	300	134	V
	* 11.084	30.07	MAv1	37.8	-25.6	42.27	54	-11.73	-	-	300	134	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

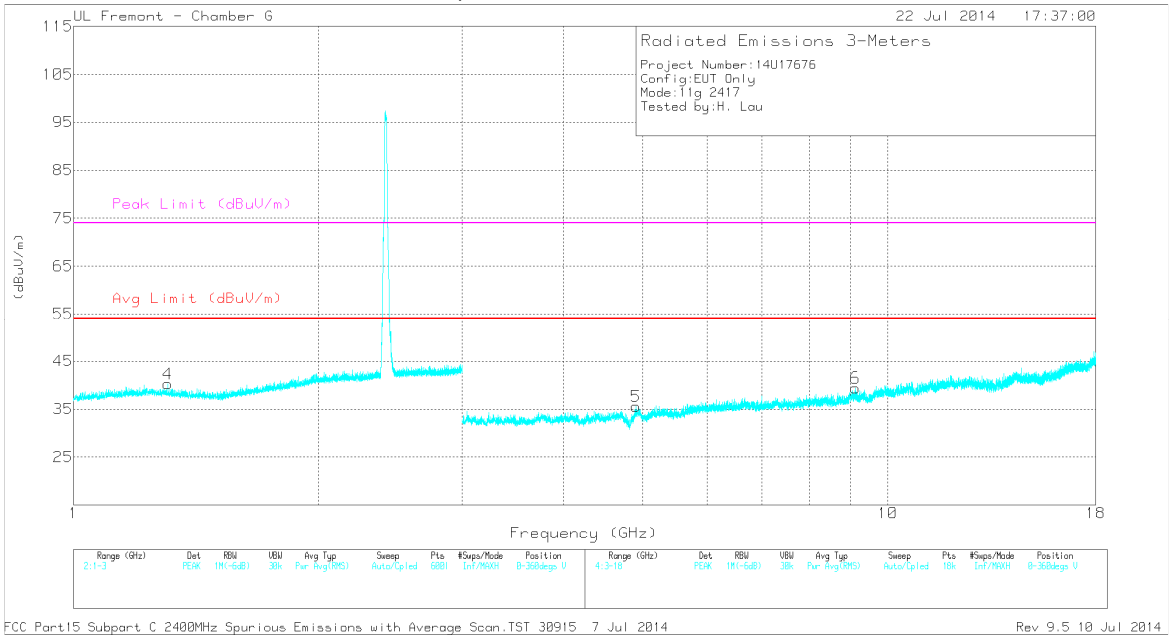
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

LOW CHANNEL HORIZONTAL PLOT, CH 2



LOW CHANNEL VERTICAL PLOT, CH 2

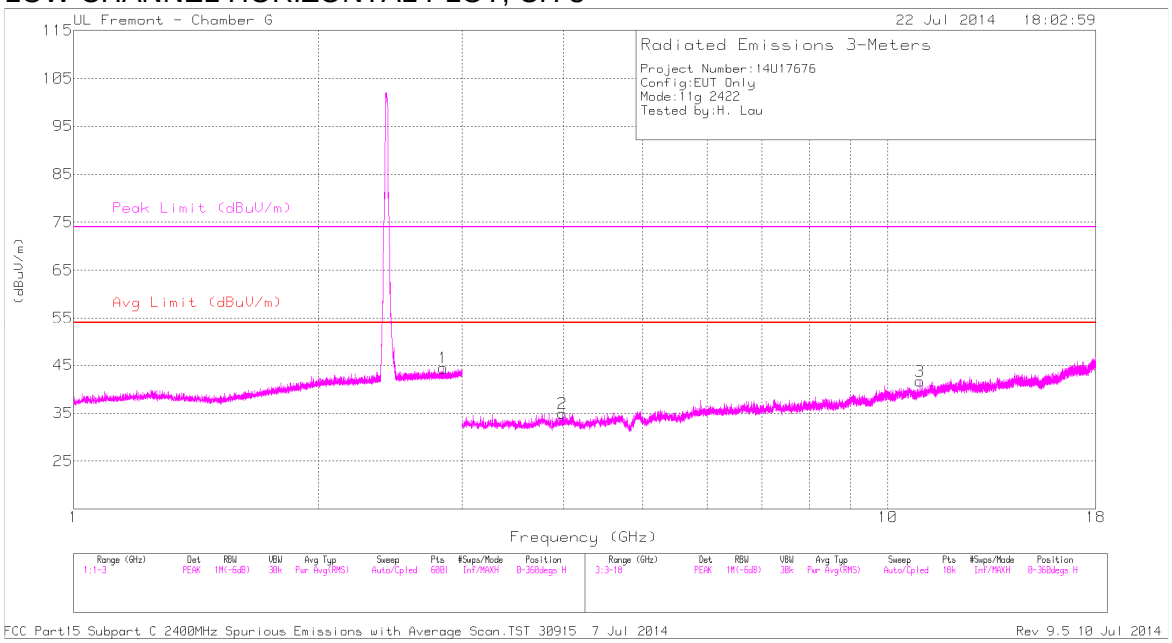


DATA

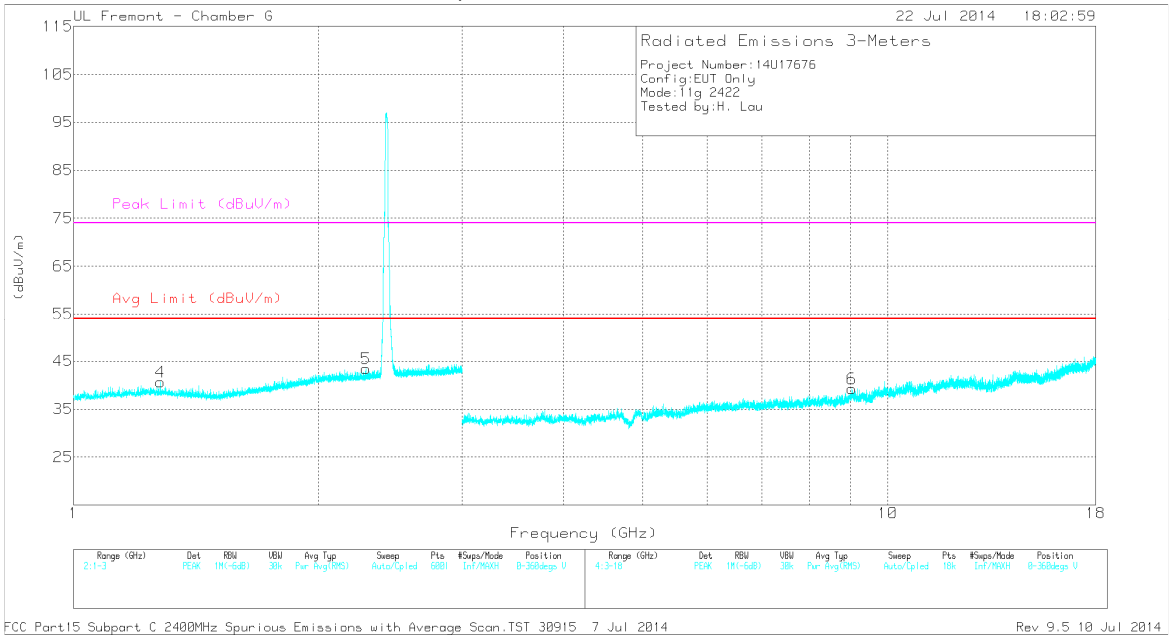
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.683	43.83	PK2	29.1	-25.4	47.53	-	-	74	-26.47	132	143	H
* 1.683	32.4	MAv1	29.1	-25.4	36.1	54	-17.9	-	-	132	143	H
* 1.305	44.05	PK2	28.9	-26	46.95	-	-	74	-27.05	107	139	V
* 1.305	32.77	MAv1	28.9	-26	35.67	54	-18.33	-	-	107	139	V
* 7.411	40.77	PK2	35.6	-31.7	44.67	-	-	74	-29.33	76	222	H
* 7.411	29.43	MAv1	35.6	-31.7	33.33	54	-20.67	-	-	76	222	H
* 4.121	41.7	PK2	33.4	-33.4	41.7	-	-	74	-32.3	180	252	H
* 4.121	30.45	MAv1	33.4	-33.4	30.45	54	-23.55	-	-	180	252	H
* 9.129	39.31	PK2	36.5	-29.1	46.71	-	-	74	-27.29	73	142	V
* 9.128	27.95	MAv1	36.5	-29	35.45	54	-18.55	-	-	73	142	V
* 4.904	42.28	PK2	34.1	-33.1	43.28	-	-	74	-30.72	121	168	V
* 4.904	30.91	MAv1	34.1	-33.1	31.91	54	-22.09	-	-	121	168	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

LOW CHANNEL HORIZONTAL PLOT, CH 3



LOW CHANNEL VERTICAL PLOT, CH 3

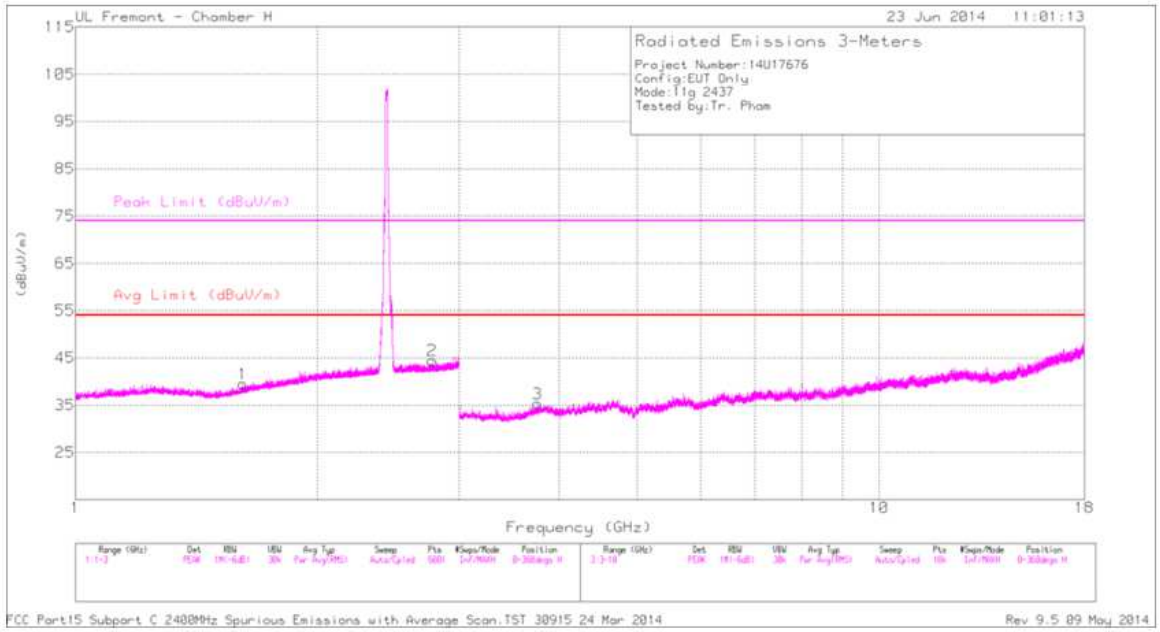


DATA

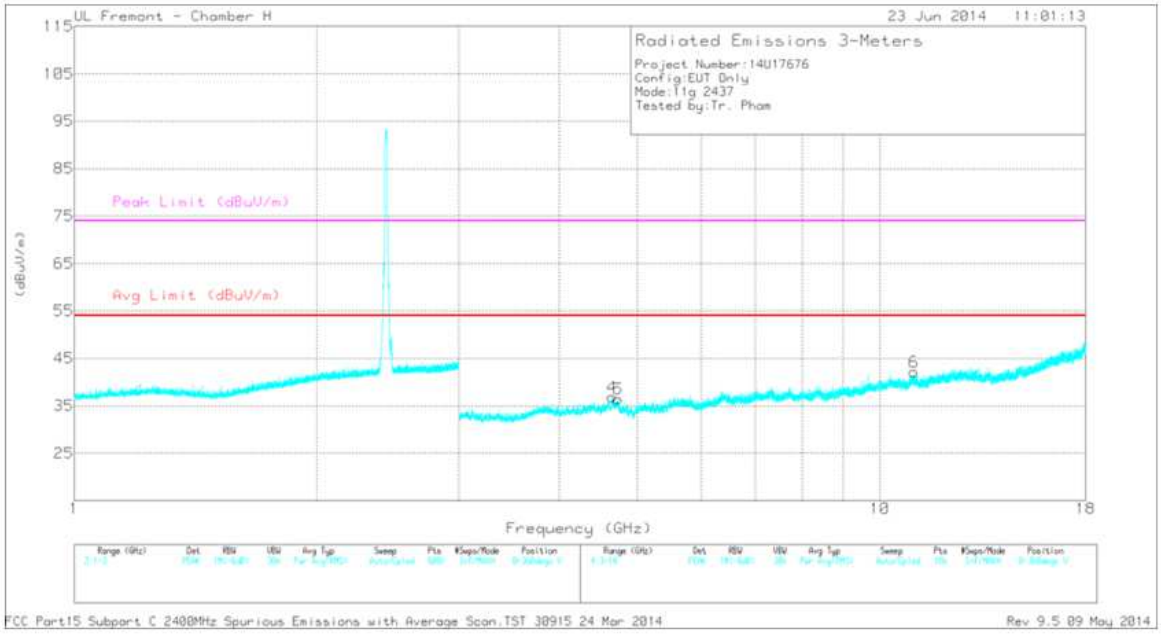
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.842	43.71	PK2	32.3	-24.8	51.21	-	-	74	-22.79	78	220	H
* 2.842	32.26	MAv1	32.3	-24.8	39.76	54	-14.24	-	-	78	220	H
* 1.278	43.94	PK2	29.1	-26.1	46.94	-	-	74	-27.06	124	157	V
* 1.279	32.83	MAv1	29.1	-26	35.93	54	-18.07	-	-	124	157	V
* 2.286	43.29	PK2	31.6	-25.1	49.79	-	-	74	-24.21	35	145	V
* 2.286	32.29	MAv1	31.6	-25.1	38.79	54	-15.21	-	-	35	145	V
* 3.979	41.42	PK2	33.4	-33	41.82	-	-	74	-32.18	152	160	H
* 3.98	30.36	MAv1	33.4	-32.9	30.86	54	-23.14	-	-	152	160	H
* 10.953	37.41	PK2	37.8	-26.3	48.91	-	-	74	-25.09	201	139	H
* 10.953	25.64	MAv1	37.8	-26.3	37.14	54	-16.86	-	-	201	139	H
* 9.028	39.13	PK2	36.4	-28.4	47.13	-	-	74	-26.87	161	114	V
* 9.028	27.4	MAv1	36.4	-28.4	35.4	54	-18.6	-	-	161	114	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL HORIZONTAL PLOT, CH 6



MID CHANNEL VERTICAL PLOT, CH 6



DATA

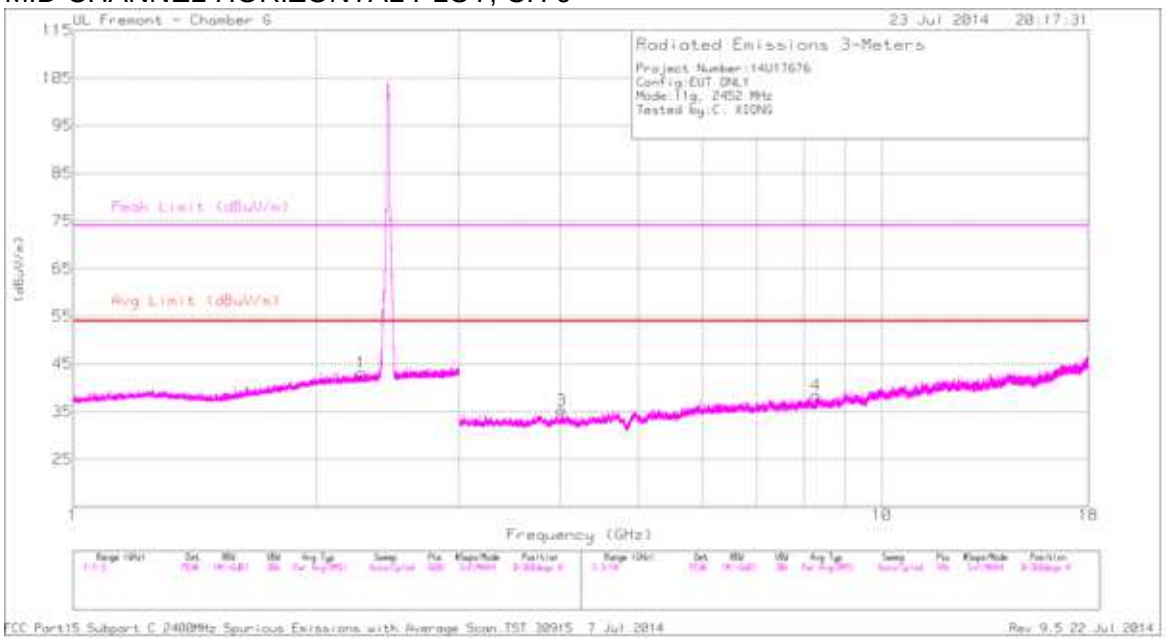
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.615	44.25	PK2	28.6	-25	47.85	-	-	74	-26.15	14	257	H
	* 1.615	31.77	MAv1	28.6	-25	35.37	54	-18.63	-	-	14	257	H
2	* 2.778	43.25	PK2	32.4	-24.3	51.35	-	-	74	-22.65	69	247	H
	* 2.779	31.71	MAv1	32.4	-24.3	39.81	54	-14.19	-	-	69	247	H
3	* 3.76	45.1	PK2	33.2	-32.6	45.7	-	-	74	-28.3	83	264	H
	* 3.76	33.32	MAv1	33.2	-32.6	33.92	54	-20.08	-	-	83	264	H
4	* 4.73	44.11	PK2	34.3	-31.9	46.51	-	-	74	-27.49	169	136	V
	* 4.73	32.08	MAv1	34.3	-31.9	34.48	54	-19.52	-	-	169	136	V
5	* 11.023	41.87	PK2	37.8	-25	54.67	-	-	74	-19.33	209	173	V
	* 11.023	30.14	MAv1	37.8	-25	42.94	54	-11.06	-	-	209	173	V
6	4.465	44.74	PK2	33.9	-32.2	46.44	-	-	-	-	110	193	V
	4.465	32.19	MAv1	33.9	-32.2	33.89	-	-	-	-	110	193	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

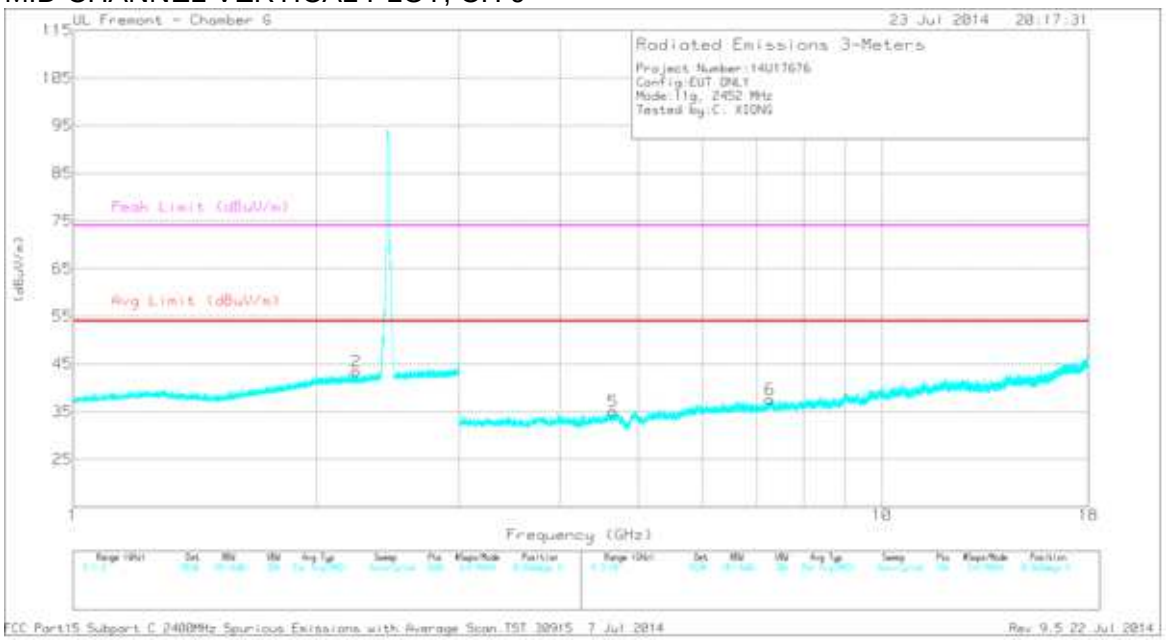
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL HORIZONTAL PLOT, CH 9



MID CHANNEL VERTICAL PLOT, CH 9



DATA

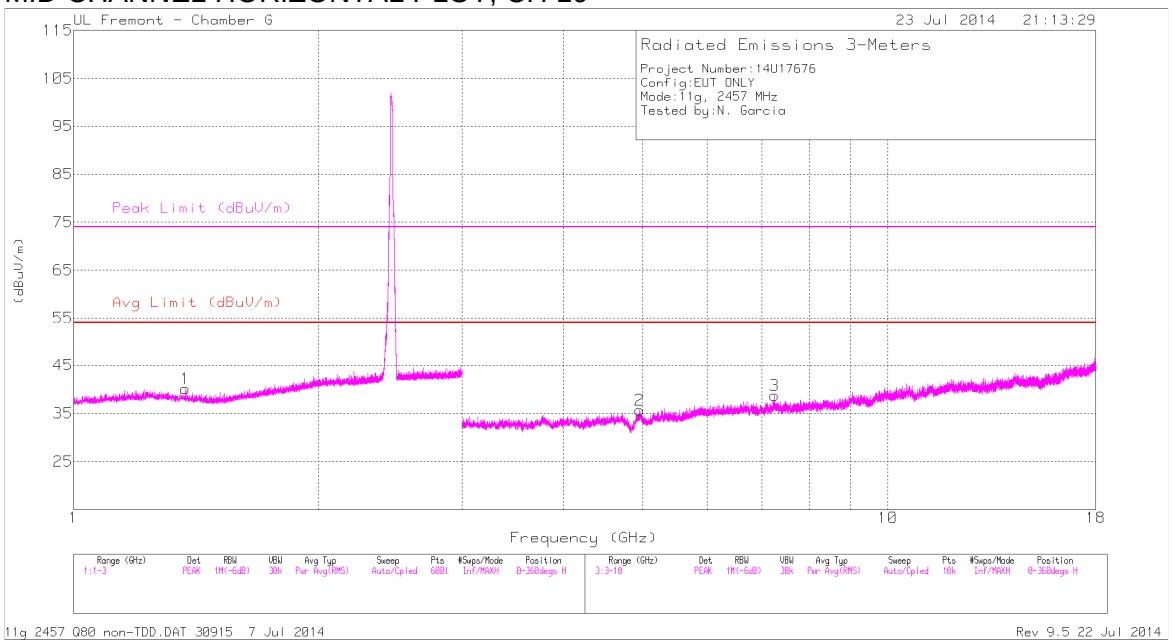
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.269	43.7	PK2	31.5	-25.1	50.1	-	-	74	-23.9	230	173	H
	* 2.269	32.3	MAv1	31.5	-25.1	38.7	54	-15.3	-	-	230	173	H
2	* 2.24	44.47	PK2	31.5	-25.1	50.87	-	-	74	-23.13	189	184	V
	* 2.241	32.38	MAv1	31.5	-25.1	38.78	54	-15.22	-	-	189	184	V
3	* 4.019	41.55	PK2	33.4	-32.7	42.25	-	-	74	-31.75	155	262	H
	* 4.02	30.21	MAv1	33.4	-32.7	30.91	54	-23.09	-	-	155	262	H
4	* 8.282	39.57	PK2	35.8	-30.6	44.77	-	-	74	-29.23	222	249	H
	* 8.281	28.72	MAv1	35.8	-30.5	34.02	54	-19.98	-	-	222	249	H
5	* 4.653	41.31	PK2	33.9	-33.1	42.11	-	-	74	-31.89	165	145	V
	* 4.655	30.75	MAv1	33.9	-33.1	31.55	54	-22.45	-	-	165	145	V
6	* 7.274	39.58	PK2	35.6	-30.5	44.68	-	-	74	-29.32	184	203	V
	* 7.274	28.78	MAv1	35.6	-30.6	33.78	54	-20.22	-	-	184	203	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

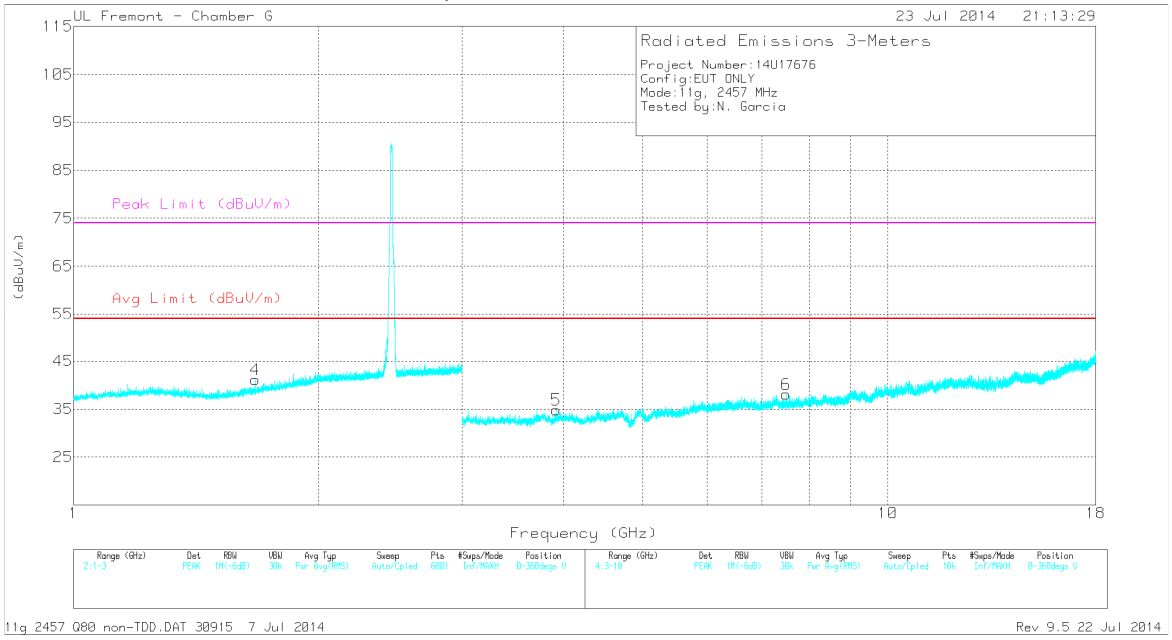
MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL HORIZONTAL PLOT, CH 10



11g 2457 Q80 non-TDD.DAT 30915 7 Jul 2014 Rev 9.5 22 Jul 2014

MID CHANNEL VERTICAL PLOT, CH 10



11g 2457 Q80 non-TDD.DAT 30915 7 Jul 2014 Rev 9.5 22 Jul 2014

DATA

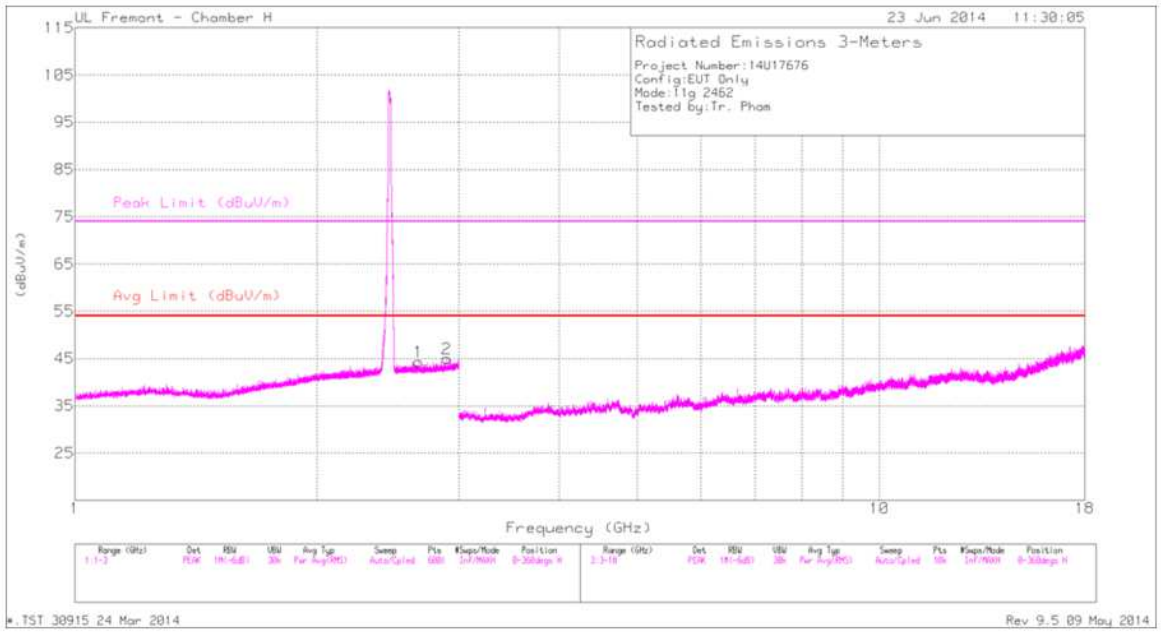
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.371	43.63	PK2	28.6	-25.8	46.43	-	-	74	-27.57	360	101	H
	* 1.37	32.65	MAv1	28.6	-25.9	35.35	54	-18.65	-	-	360	101	H
2	* 1.671	43.68	PK2	29.1	-25.4	47.38	-	-	74	-26.62	233	112	V
	* 1.673	32.43	MAv1	29.1	-25.4	36.13	54	-17.87	-	-	233	112	V
3	* 4.959	42.42	PK2	34.1	-32.9	43.62	-	-	74	-30.38	141	249	H
	* 4.958	30.76	MAv1	34.1	-32.9	31.96	54	-22.04	-	-	141	249	H
4	* 7.253	40.52	PK2	35.6	-30.9	45.22	-	-	74	-28.78	98	198	H
	* 7.253	29.63	MAv1	35.6	-30.9	34.33	54	-19.67	-	-	98	198	H
5	* 3.917	42.25	PK2	33.2	-33.7	41.75	-	-	74	-32.25	12	121	V
	* 3.917	31.02	MAv1	33.2	-33.7	30.52	54	-23.48	-	-	12	121	V
6	* 7.498	39.49	PK2	35.6	-30.8	44.29	-	-	74	-29.71	28	108	V
	* 7.498	29.16	MAv1	35.6	-30.8	33.96	54	-20.04	-	-	28	108	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

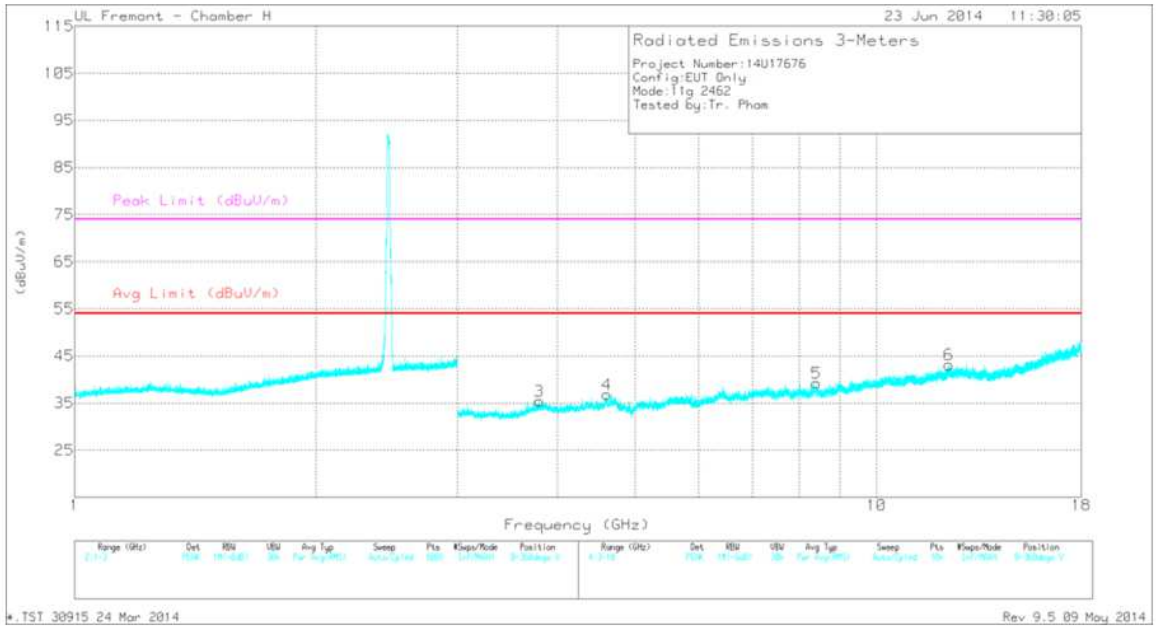
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL HORIZONTAL PLOT, CH 11



HIGH CHANNEL VERTICAL PLOT, CH 11



DATA

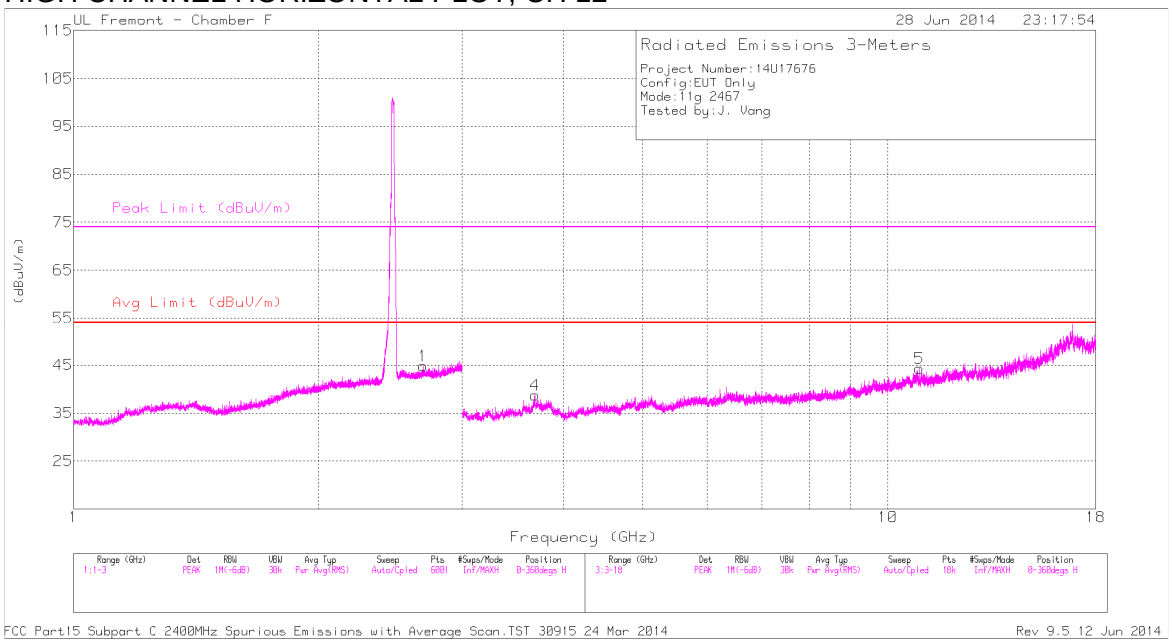
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.672	43.69	PK2	32.3	-24.3	51.69	-	-	74	-22.31	330	373	H
	* 2.672	31.71	MAv1	32.3	-24.3	39.71	54	-14.29	-	-	330	373	H
2	* 2.897	43.37	PK2	32.6	-24.2	51.77	-	-	74	-22.23	279	343	H
	* 2.897	31.52	MAv1	32.6	-24.2	39.92	54	-14.08	-	-	279	343	H
3	* 3.795	45.51	PK2	33.3	-32.7	46.11	-	-	74	-27.89	327	321	V
	* 3.794	33.47	MAv1	33.3	-32.7	34.07	54	-19.93	-	-	327	321	V
4	* 4.613	45.05	PK2	34.1	-32.4	46.75	-	-	74	-27.25	253	279	V
	* 4.613	32.59	MAv1	34.1	-32.4	34.29	54	-19.71	-	-	253	279	V
5	* 8.414	42.29	PK2	36.1	-27.6	50.79	-	-	74	-23.21	281	252	V
	* 8.414	30.4	MAv1	36.1	-27.6	38.9	54	-15.1	-	-	281	252	V
6	* 12.307	41.79	PK2	39	-25.2	55.59	-	-	74	-18.41	323	173	V
	* 12.307	29.7	MAv1	39	-25.2	43.5	54	-10.5	-	-	323	173	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

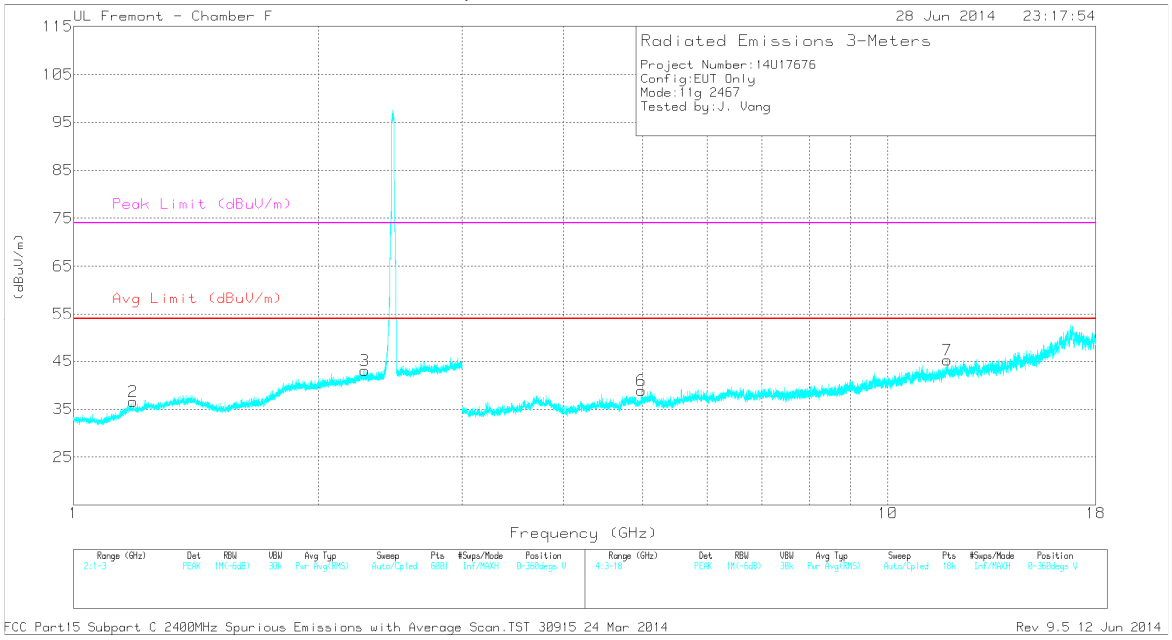
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL HORIZONTAL PLOT, CH 12



HIGH CHANNEL VERTICAL PLOT, CH 12



DATA

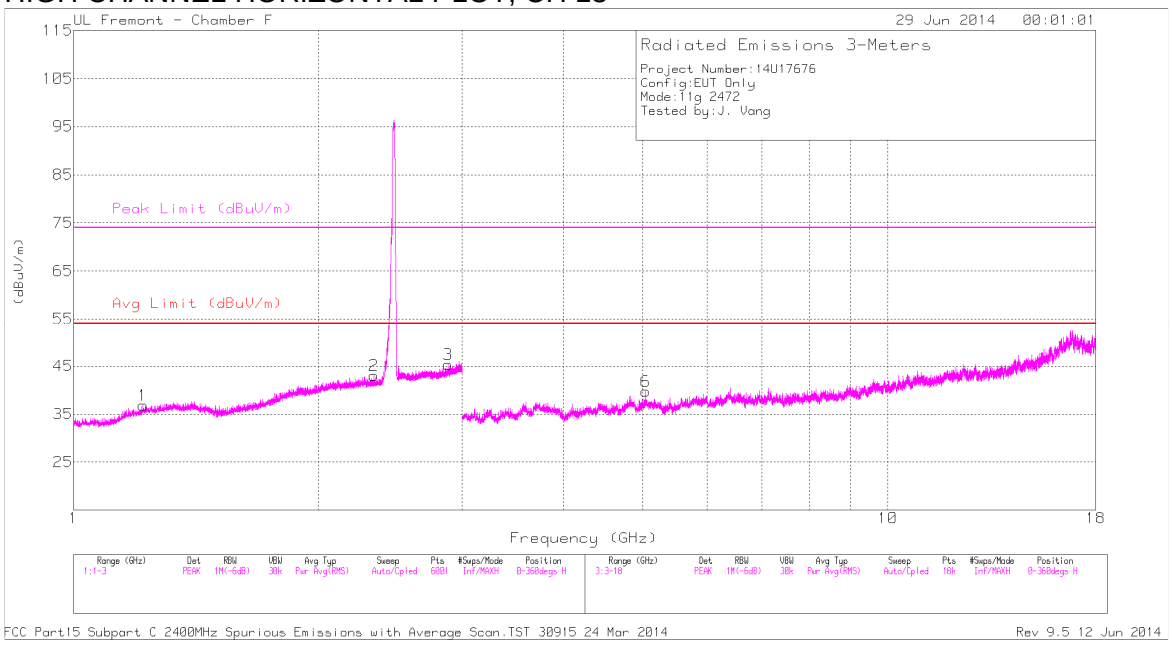
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.685	35.87	PK2	32.7	-22.8	45.77	-	-	74	-28.23	227	180	H
	* 2.685	29.83	MAv1	32.7	-22.8	39.73	54	-14.27	-	-	227	180	H
2	* 1.182	36.23	PK2	28.7	-26.3	38.63	-	-	74	-35.37	10	315	V
	* 1.183	29.73	MAv1	28.7	-26.3	32.13	54	-21.87	-	-	10	315	V
3	* 2.278	36.59	PK2	31.8	-23.2	45.19	-	-	74	-28.81	266	308	V
	* 2.278	30.02	MAv1	31.8	-23.2	38.62	54	-15.38	-	-	266	308	V
4	* 3.684	33.56	PK2	34.9	-29.2	39.26	-	-	74	-34.74	87	263	H
	* 3.684	26.98	MAv1	34.9	-29.2	32.68	54	-21.32	-	-	87	263	H
5	* 10.92	29.63	PK2	38.1	-22.6	45.13	-	-	74	-28.87	170	322	H
	* 10.92	23.05	MAv1	38.1	-22.6	38.55	54	-15.45	-	-	170	322	H
6	* 4.982	33.89	PK2	34.2	-29.2	38.89	-	-	74	-35.11	63	253	V
	* 4.983	27.4	MAv1	34.2	-29.2	32.4	54	-21.6	-	-	63	253	V
7	* 11.836	29.77	PK2	38.8	-21.4	47.17	-	-	74	-26.83	78	385	V
	* 11.836	23.16	MAv1	38.8	-21.4	40.56	54	-13.44	-	-	78	385	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

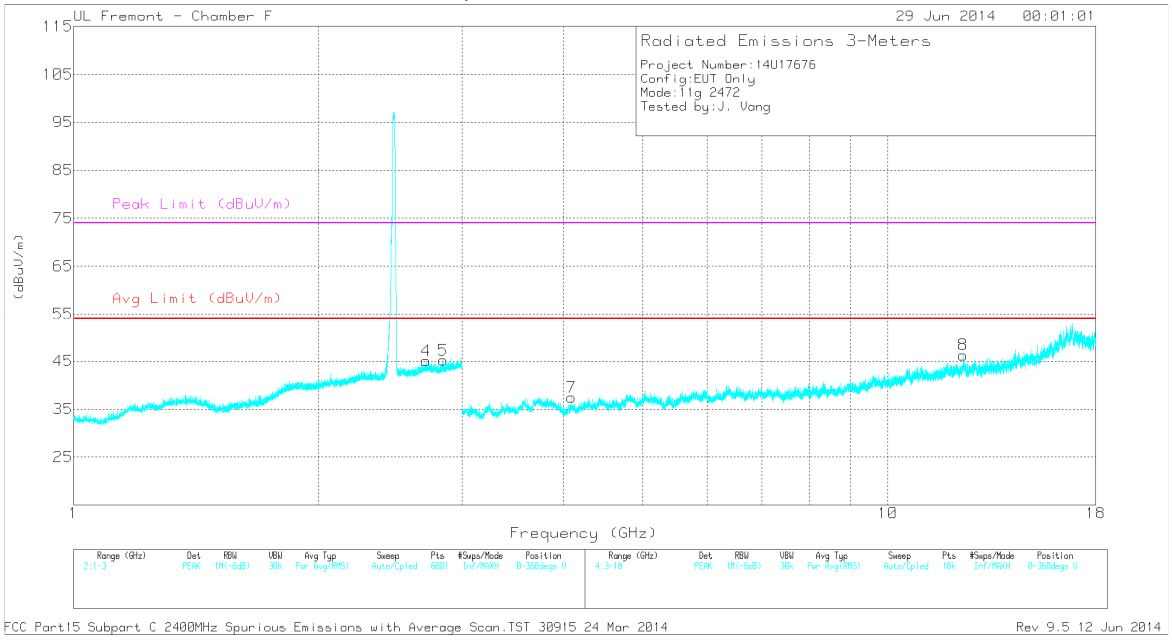
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL HORIZONTAL PLOT, CH 13



HIGH CHANNEL VERTICAL PLOT, CH 13



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.217	36.54	PK2	29.1	-26.5	39.14	-	-	74	-34.86	22	263	H
	* 1.217	30.05	MAv1	29.1	-26.5	32.65	54	-21.35	-	-	22	263	H
2	* 2.338	36.49	PK2	32	-23.5	44.99	-	-	74	-29.01	232	204	H
	* 2.338	29.96	MAv1	32	-23.5	38.46	54	-15.54	-	-	232	204	H
3	* 2.882	36.08	PK2	33.2	-22.4	46.88	-	-	74	-27.12	314	398	H
	* 2.881	29.58	MAv1	33.2	-22.4	40.38	54	-13.62	-	-	314	398	H
4	* 2.711	36.13	PK2	32.7	-22.6	46.23	-	-	74	-27.77	138	361	V
	* 2.712	29.63	MAv1	32.7	-22.6	39.73	54	-14.27	-	-	138	361	V
5	* 2.841	36.38	PK2	33	-22.6	46.78	-	-	74	-27.22	97	283	V
	* 2.842	29.85	MAv1	33	-22.6	40.25	54	-13.75	-	-	97	283	V
6	* 5.041	33.55	PK2	34.3	-28.2	39.65	-	-	74	-34.35	312	263	H
	* 5.042	26.97	MAv1	34.3	-28.2	33.07	54	-20.93	-	-	312	263	H
7	* 4.087	32.88	PK2	33.7	-28.6	37.98	-	-	74	-36.02	92	303	V
	* 4.087	26.3	MAv1	33.7	-28.6	31.4	54	-22.6	-	-	92	303	V
8	* 12.364	30.19	PK2	38.9	-21.5	47.59	-	-	74	-26.41	139	288	V
	* 12.365	23.64	MAv1	38.9	-21.3	41.24	54	-12.76	-	-	139	288	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

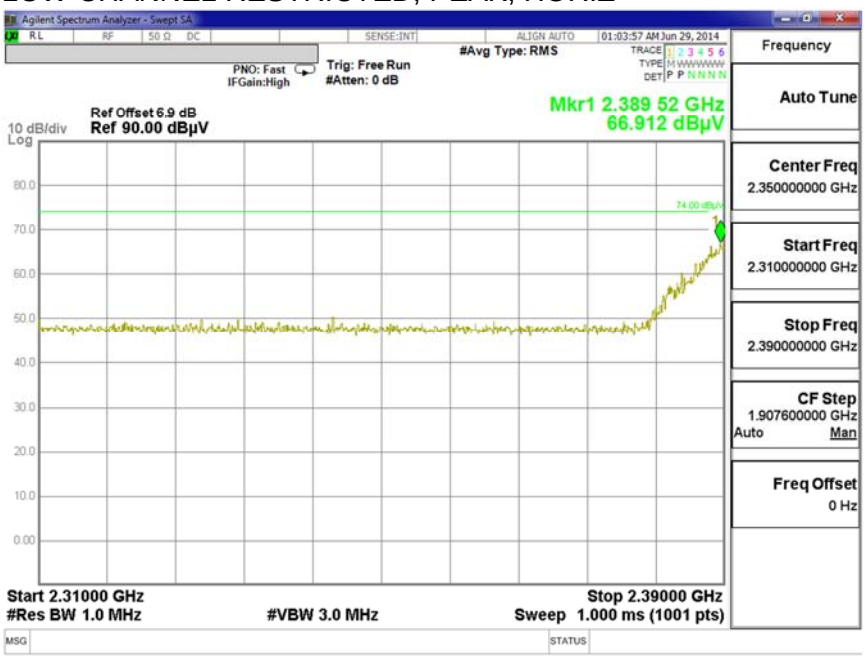
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

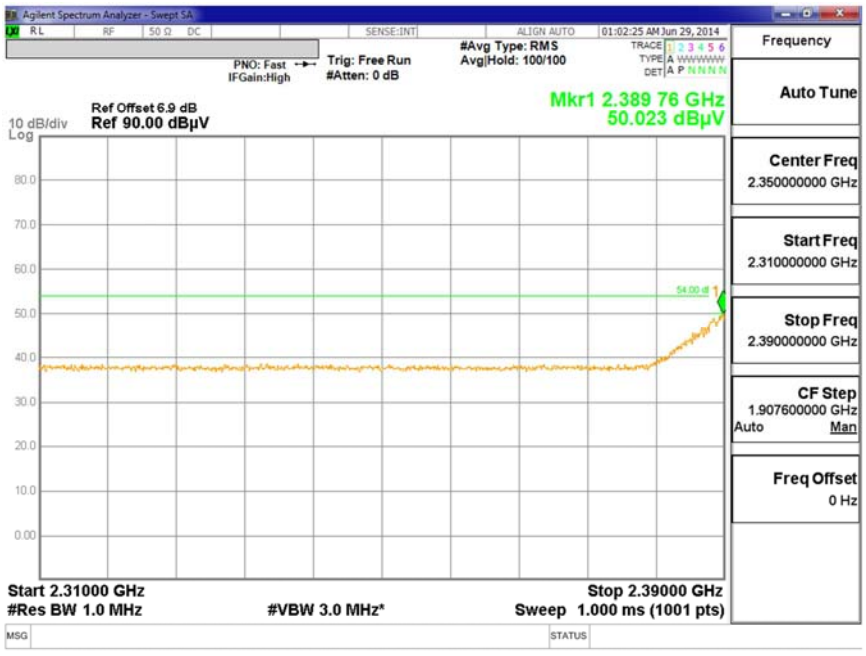
10.2.3.802.11n HT20 MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL, CHANNEL 1)

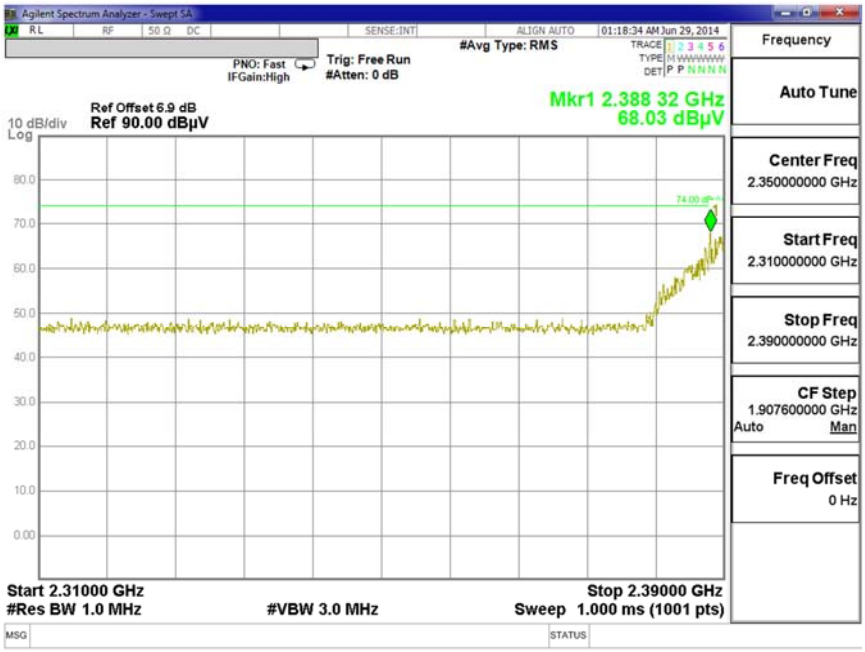
LOW CHANNEL RESTRICTED, PEAK, HORIZ



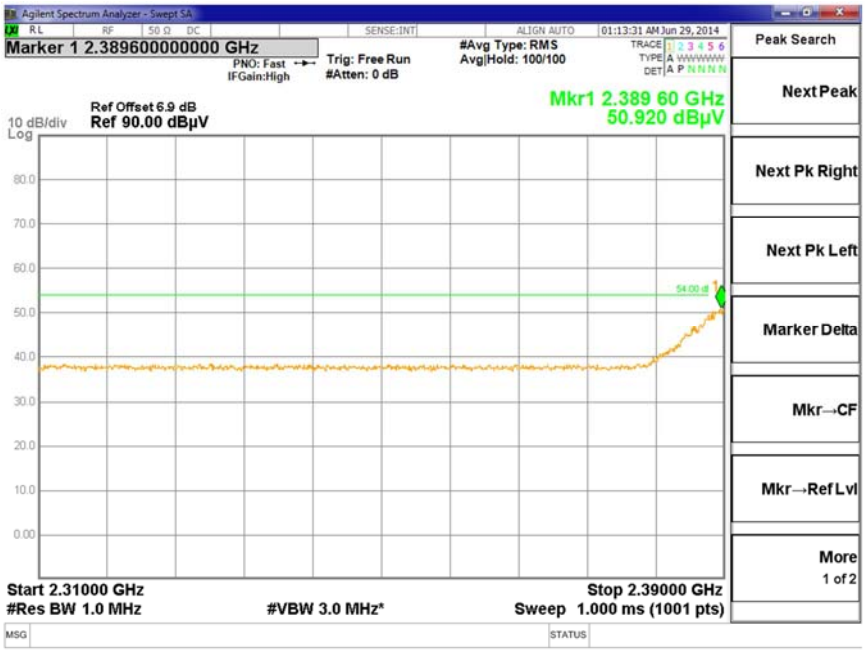
LOW CHANNEL RESTRICTED, AVERAGE, HORIZ



LOW CHANNEL RESTRICTED, PEAK, VERT

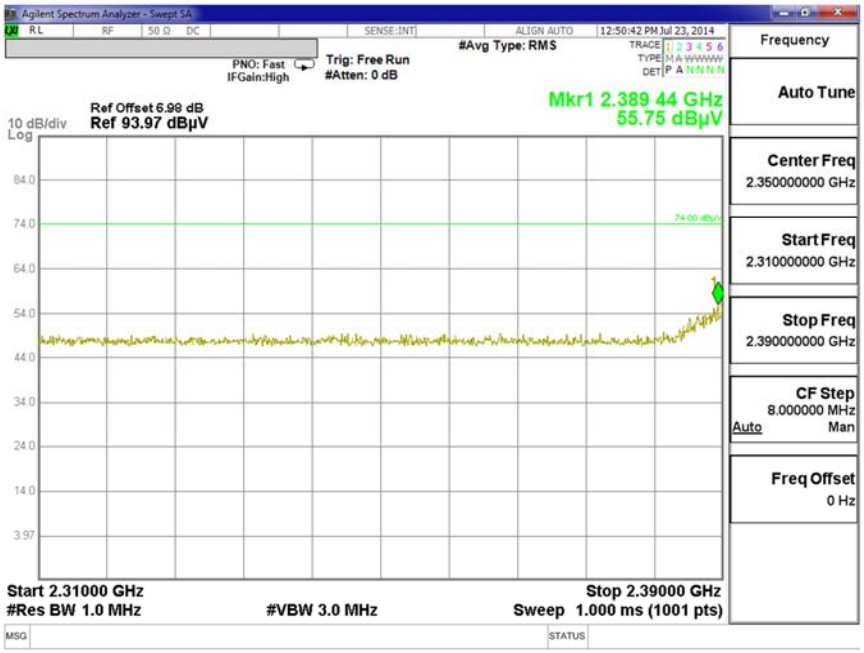


LOW CHANNEL RESTRICTED, AVERAGE, VERT

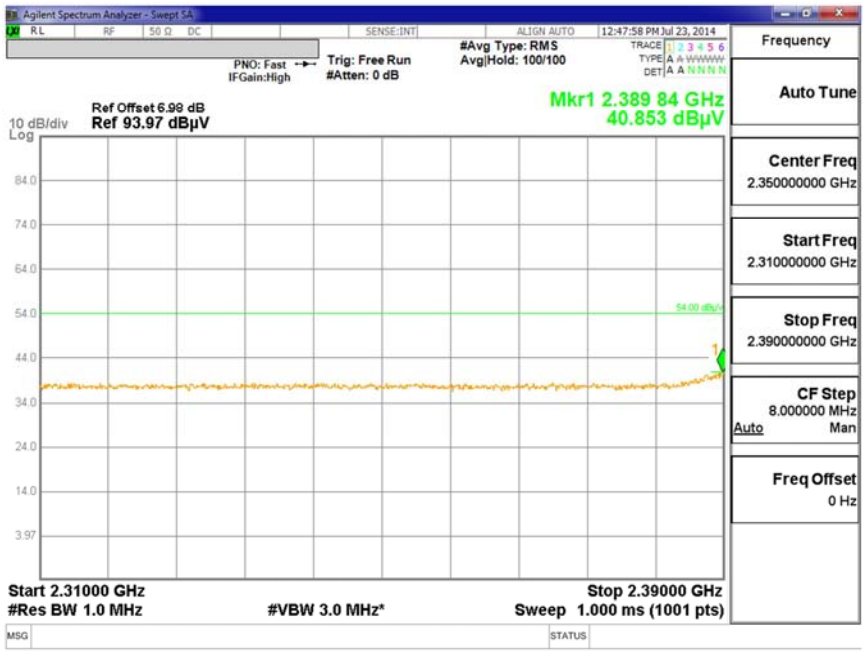


RESTRICTED BANDEDGE (LOW CHANNEL, CHANNEL 2)

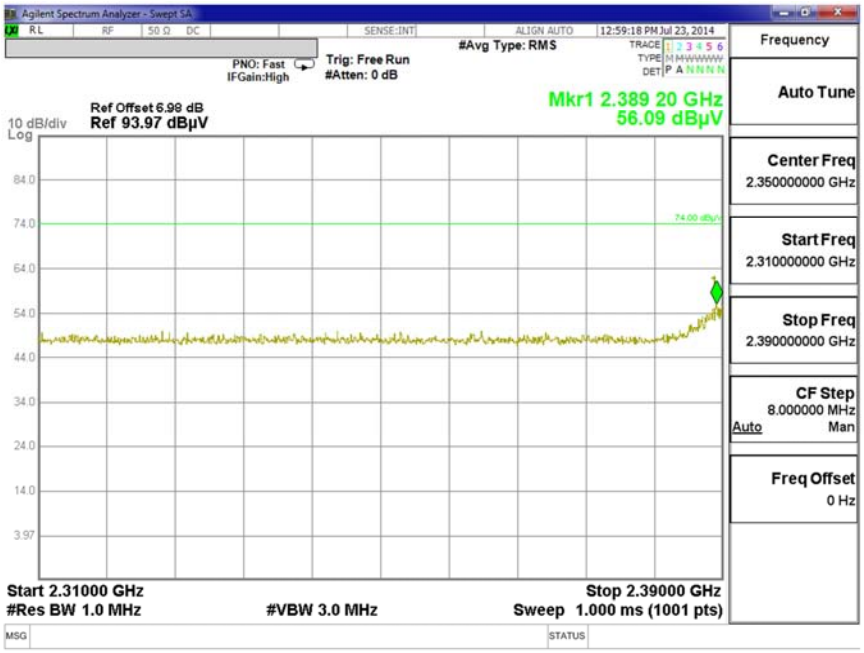
LOW CHANNEL RESTRICTED, PEAK, HORIZ



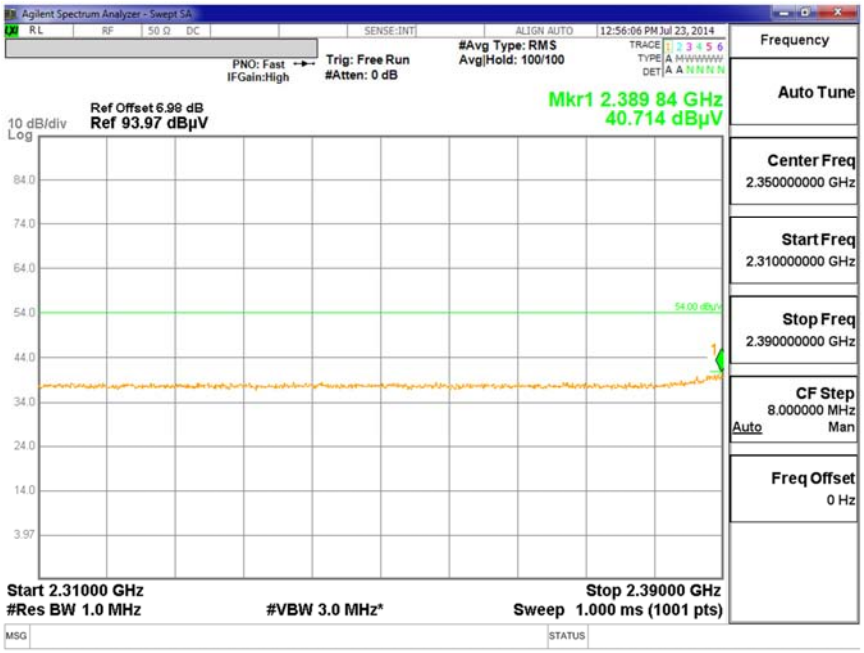
LOW CHANNEL RESTRICTED, AVERAGE, HORIZ



LOW CHANNEL RESTRICTED, PEAK, VERT

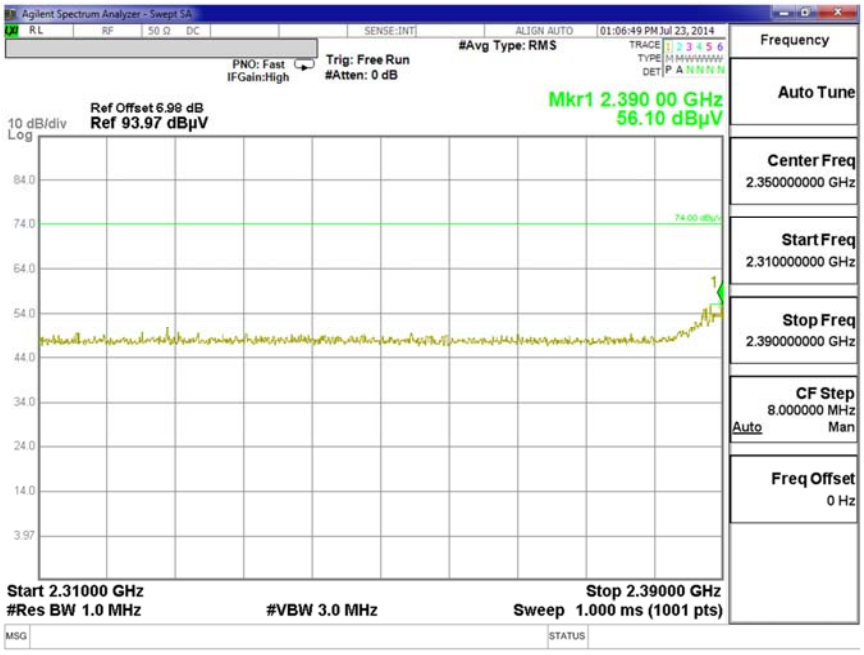


LOW CHANNEL RESTRICTED, AVERAGE, VERT

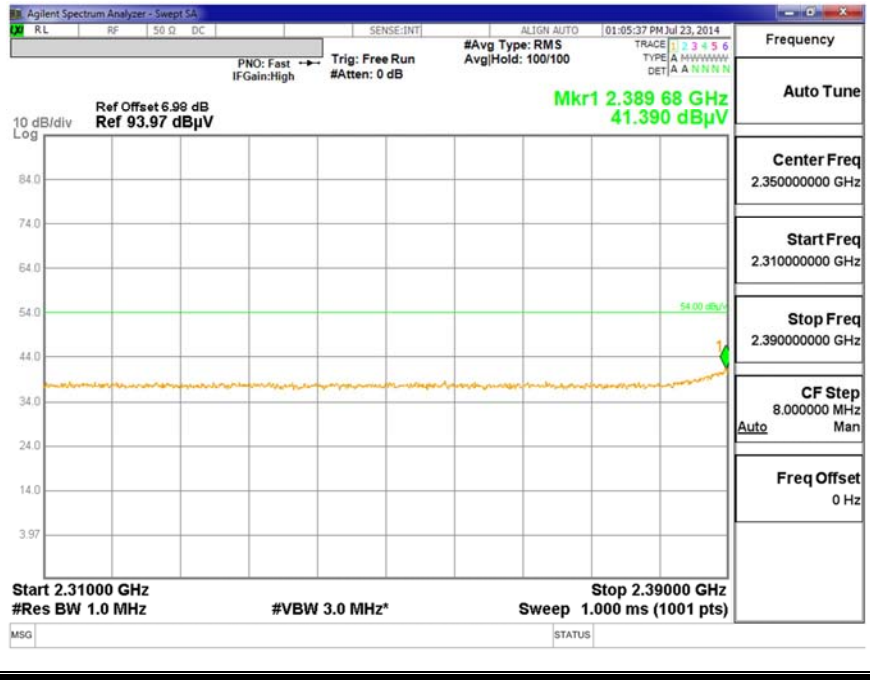


RESTRICTED BANDEDGE (LOW CHANNEL, CHANNEL 3)

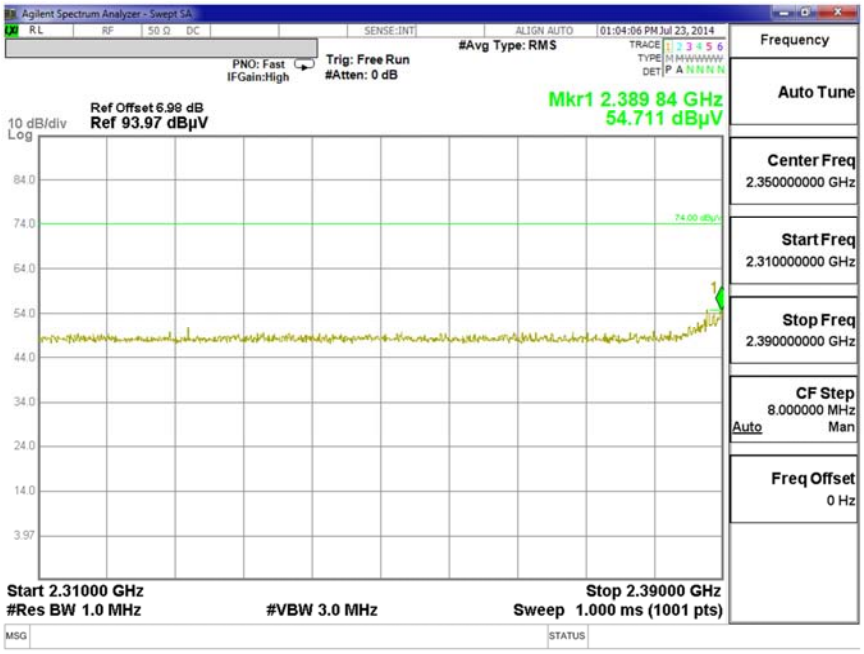
LOW CHANNEL RESTRICTED, PEAK, HORIZ



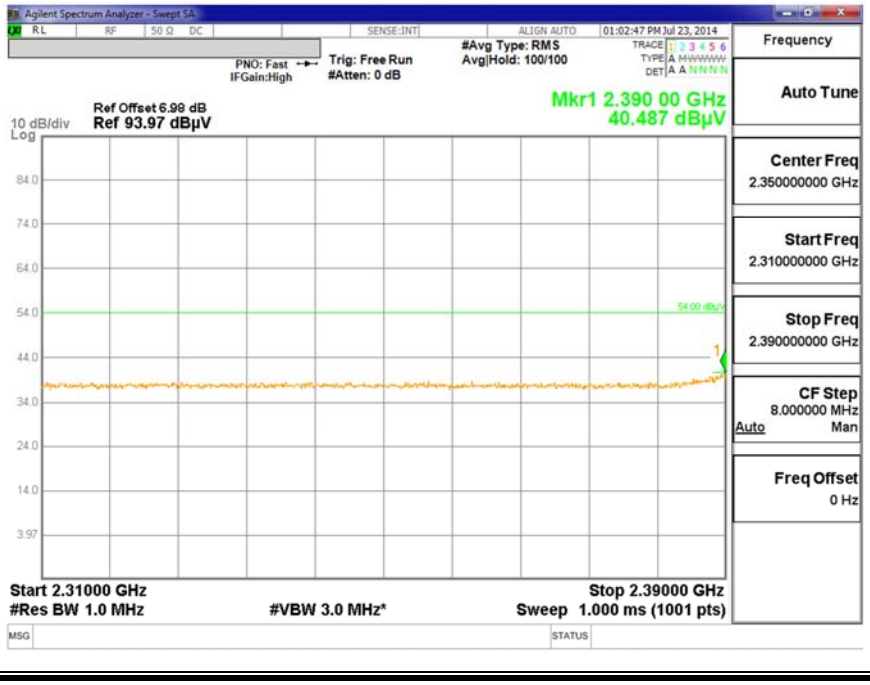
LOW CHANNEL RESTRICTED, AVERAGE, HORIZ



LOW CHANNEL RESTRICTED, PEAK, VERT

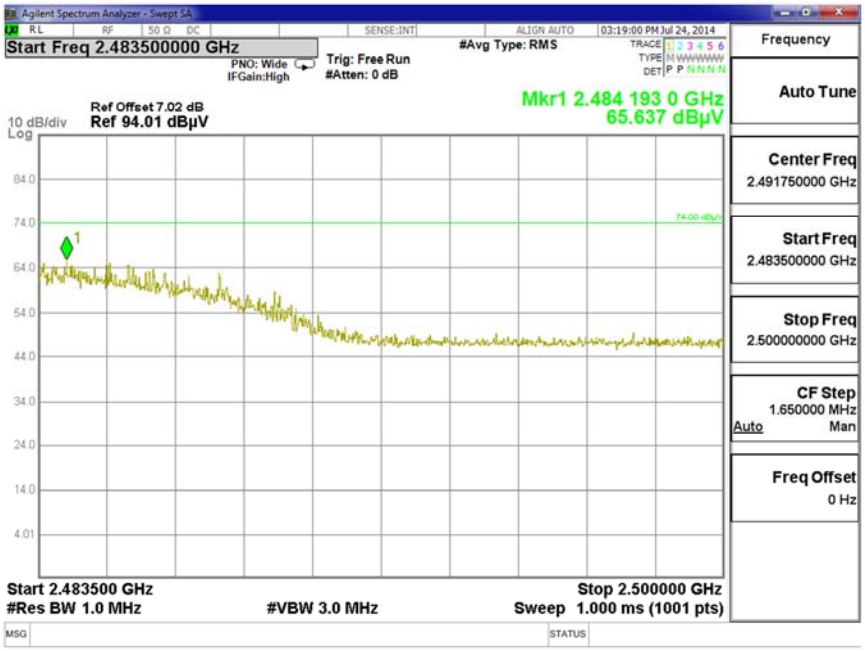


LOW CHANNEL RESTRICTED, AVERAGE, VERT

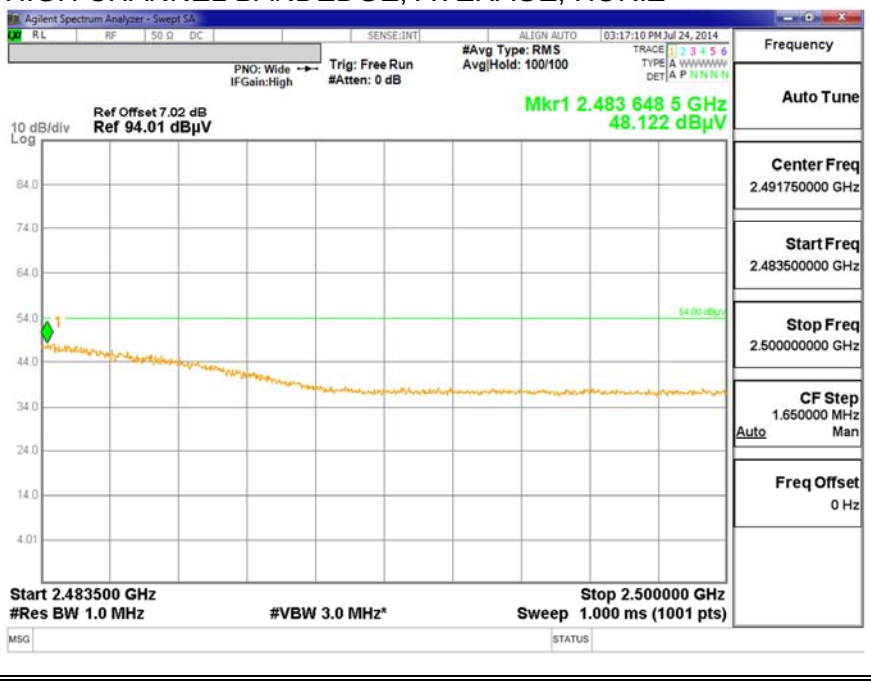


RESTRICTED BANDEDGE (HIGH CHANNEL, CHANNEL 9)

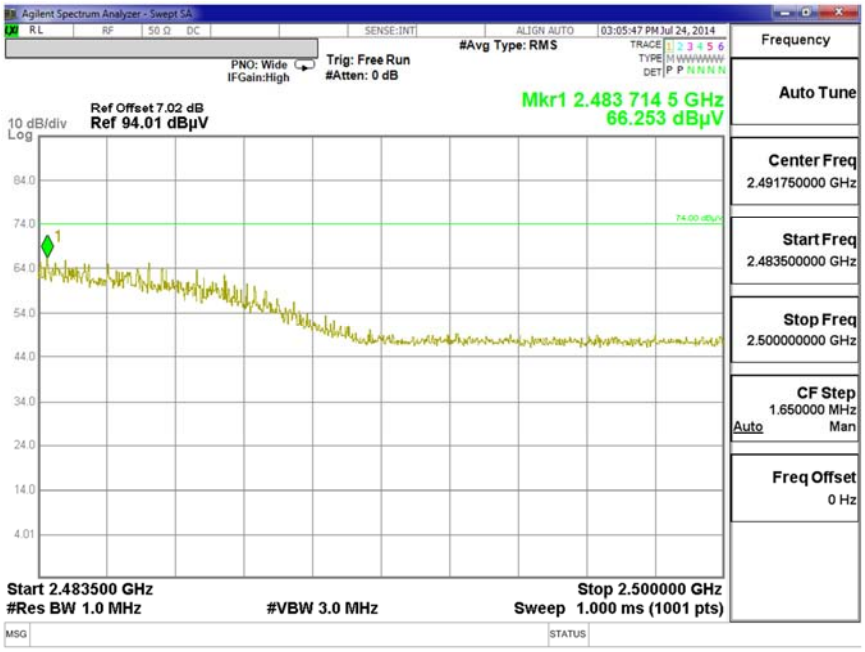
HIGH CHANNEL BANDEDGE, PEAK, HORIZ



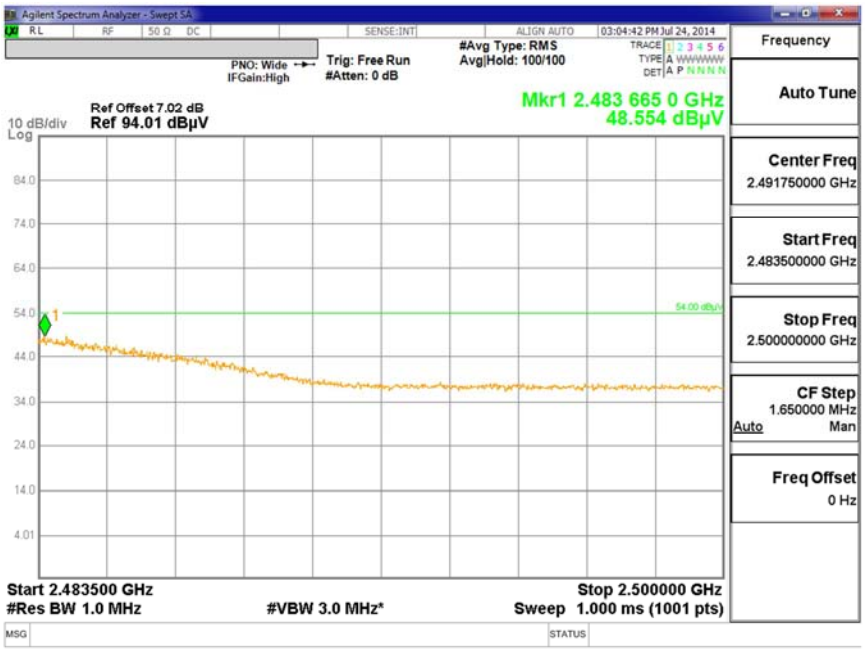
HIGH CHANNEL BANDEDGE, AVERAGE, HORIZ



HIGH CHANNEL BANDEDGE, PEAK, VERT

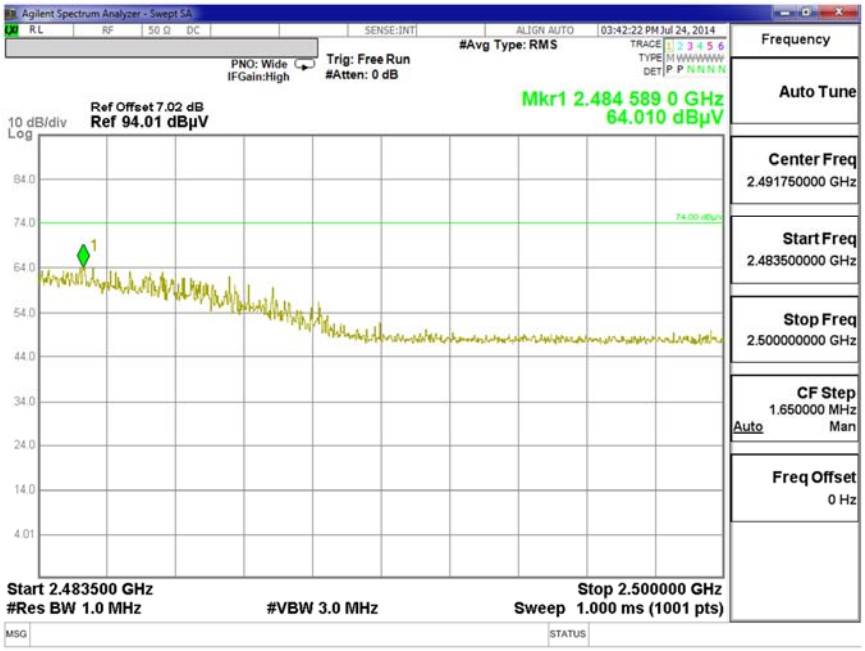


HIGH CHANNEL BANDEDGE, AVERAGE, VERT

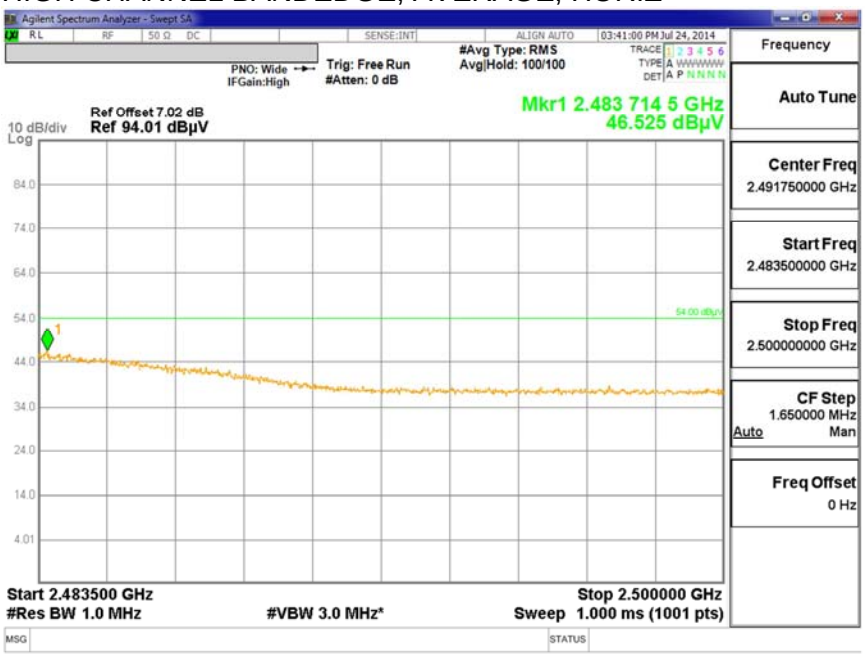


RESTRICTED BANDEDGE (HIGH CHANNEL, CHANNEL 10)

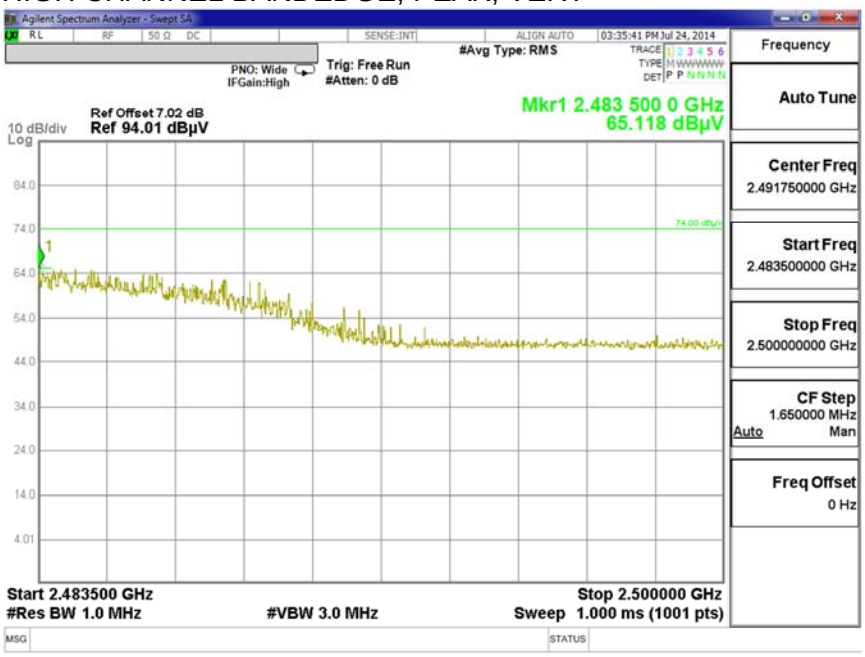
HIGH CHANNEL BANDEDGE, PEAK, HORIZ



HIGH CHANNEL BANDEDGE, AVERAGE, HORIZ



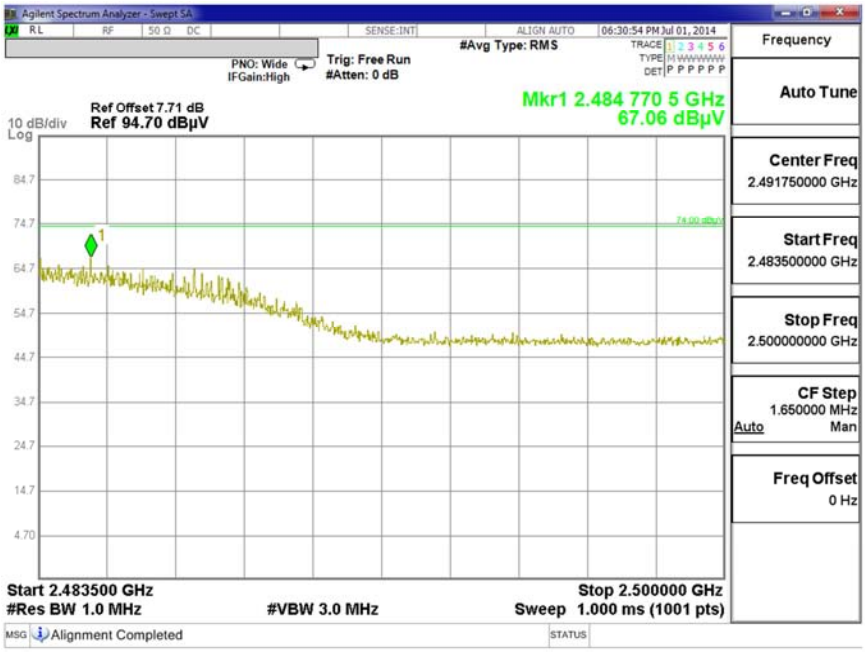
HIGH CHANNEL BANDEDGE, PEAK, VERT



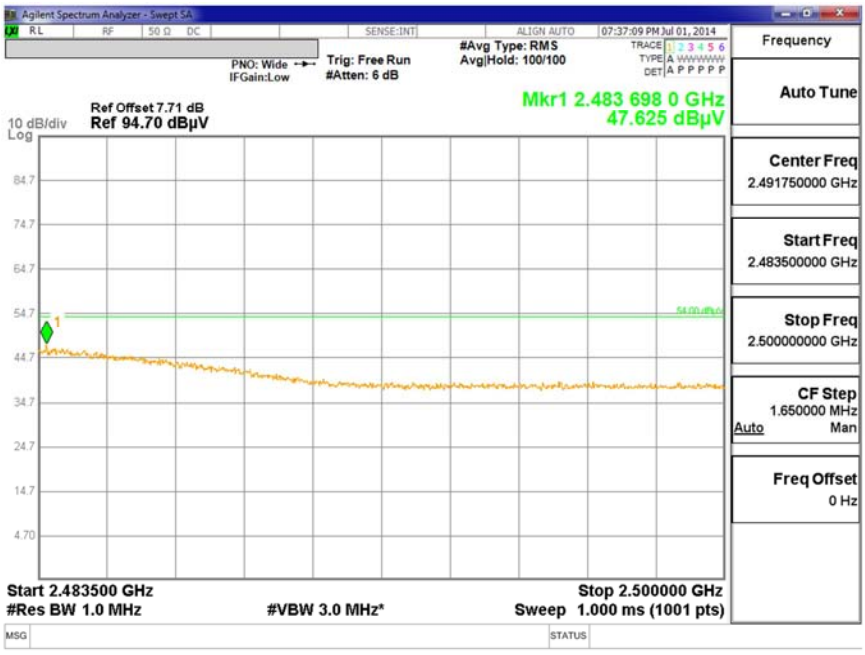
HIGH CHANNEL BANDEDGE, AVERAGE, VERT

RESTRICTED BANDEDGE (HIGH CHANNEL, CHANNEL 11)

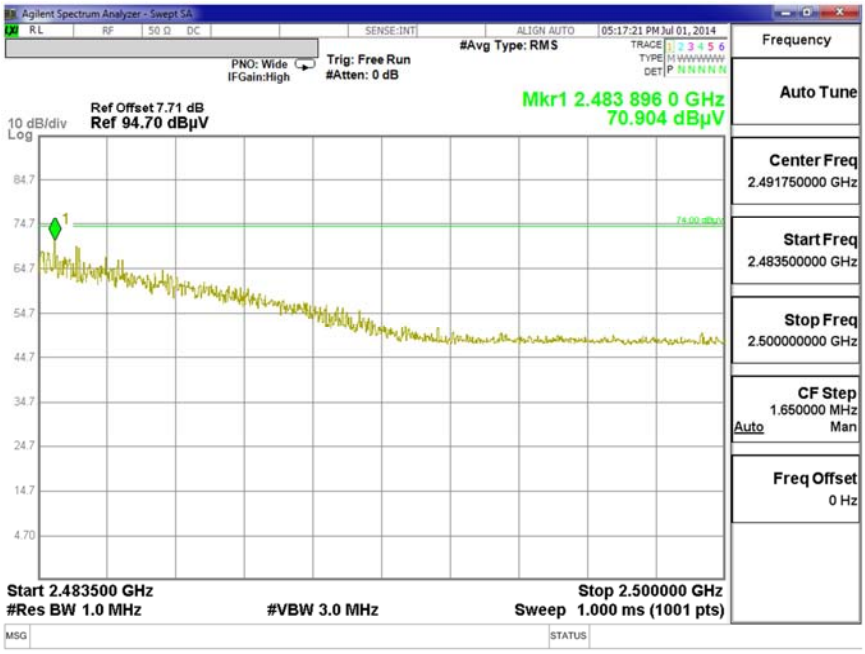
HIGH CHANNEL BANDEDGE, PEAK, HORIZ



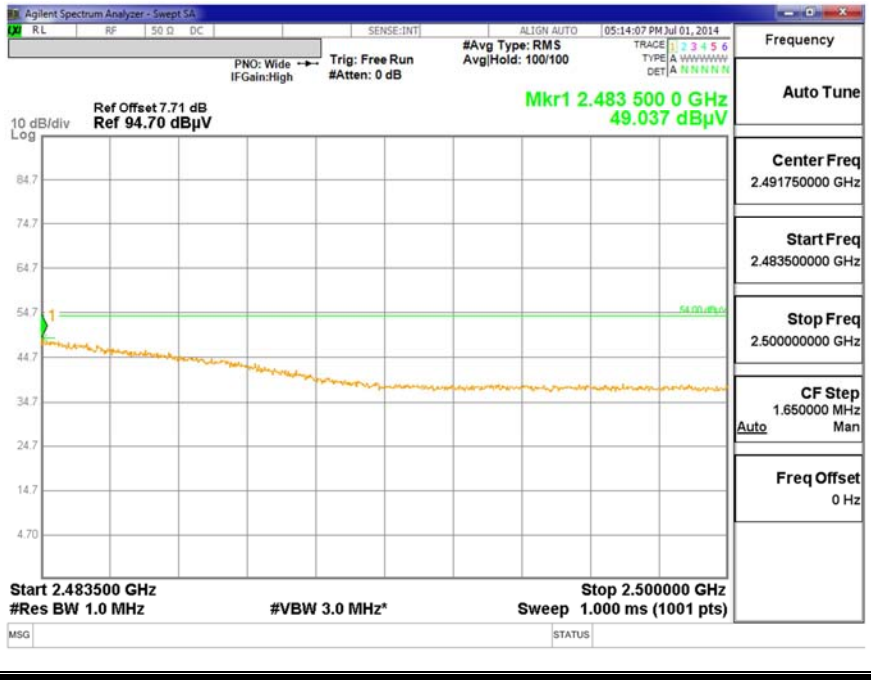
HIGH CHANNEL BANDEDGE, AVERAGE, HORIZ



HIGH CHANNEL BANDEDGE, PEAK, VERT

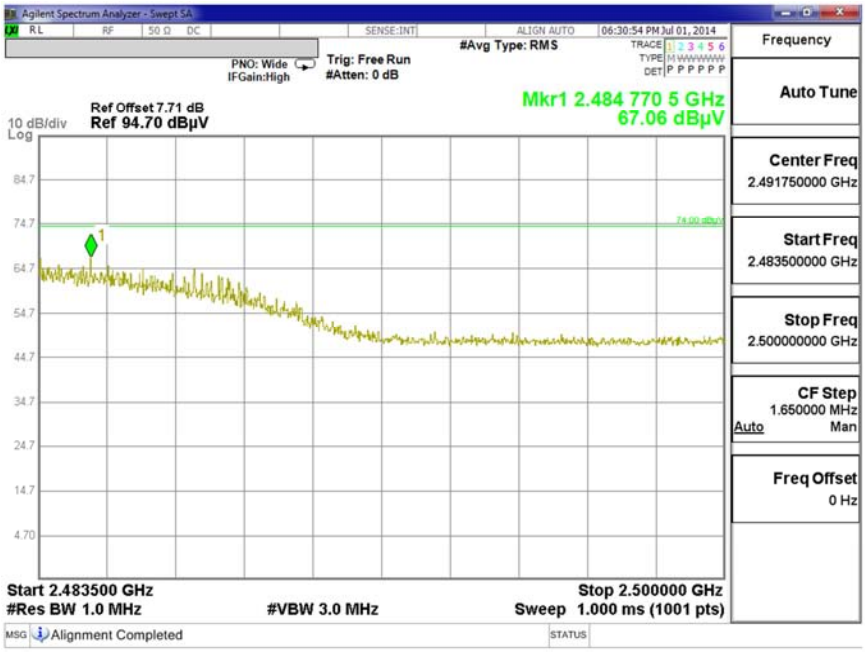


HIGH CHANNEL BANDEDGE, AVERAGE, VERT



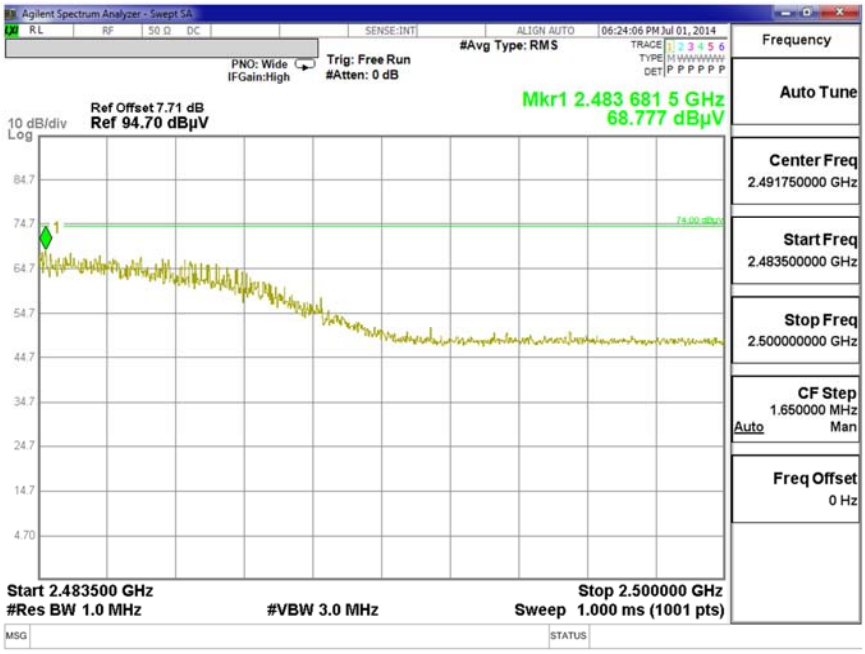
RESTRICTED BANDEDGE (HIGH CHANNEL, CHANNEL 12)

HIGH CHANNEL BANDEDGE, PEAK, HORIZ

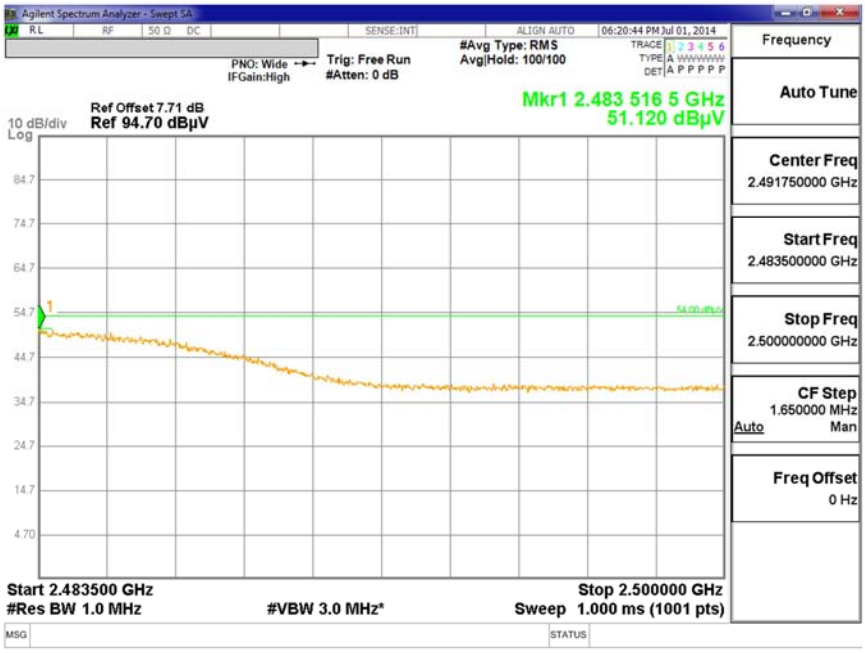


HIGH CHANNEL BANDEDGE, AVERAGE, HORIZ

HIGH CHANNEL BANDEDGE, PEAK, VERT

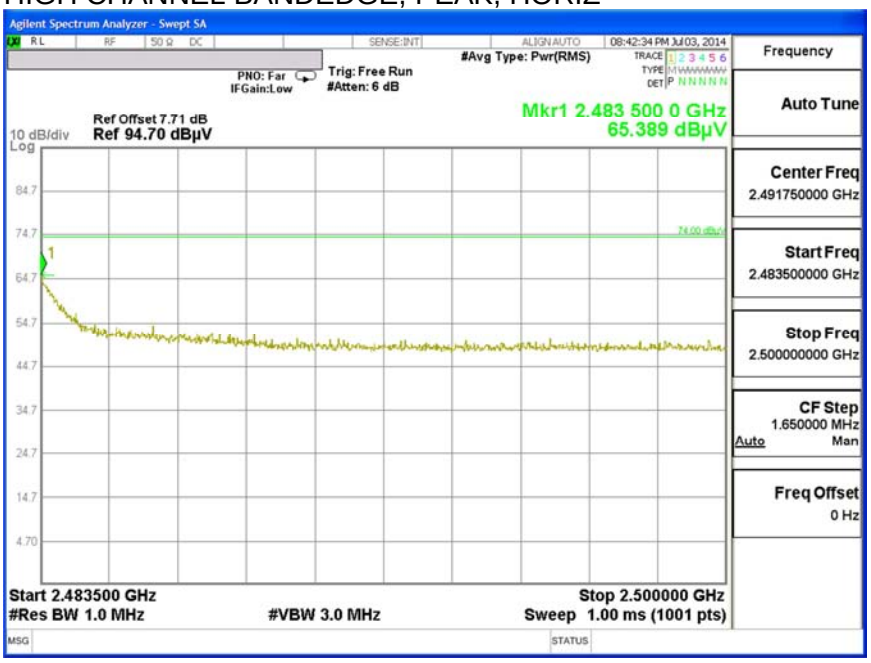


HIGH CHANNEL BANDEDGE, AVERAGE, VERT



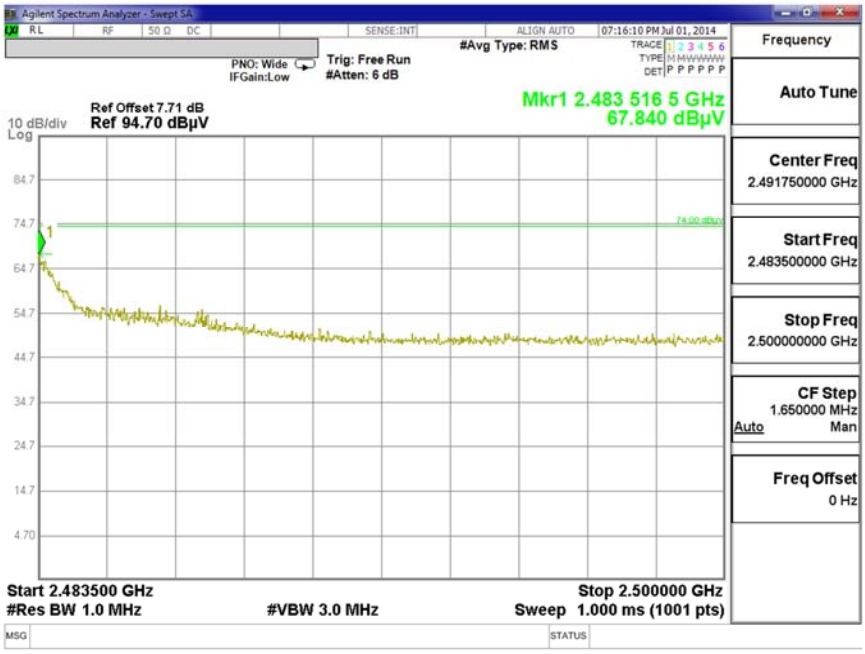
RESTRICTED BANDEDGE (HIGH CHANNEL, CHANNEL 13)

HIGH CHANNEL BANDEDGE, PEAK, HORIZ



HIGH CHANNEL BANDEDGE, AVERAGE, HORIZ

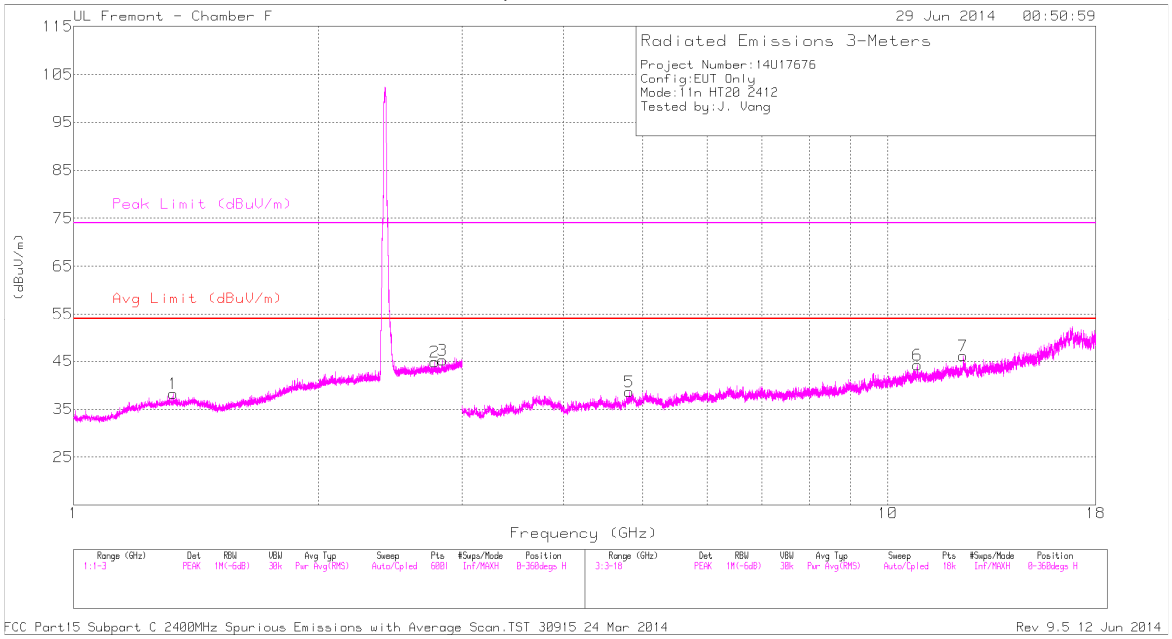
HIGH CHANNEL BANDEDGE, PEAK, VERT



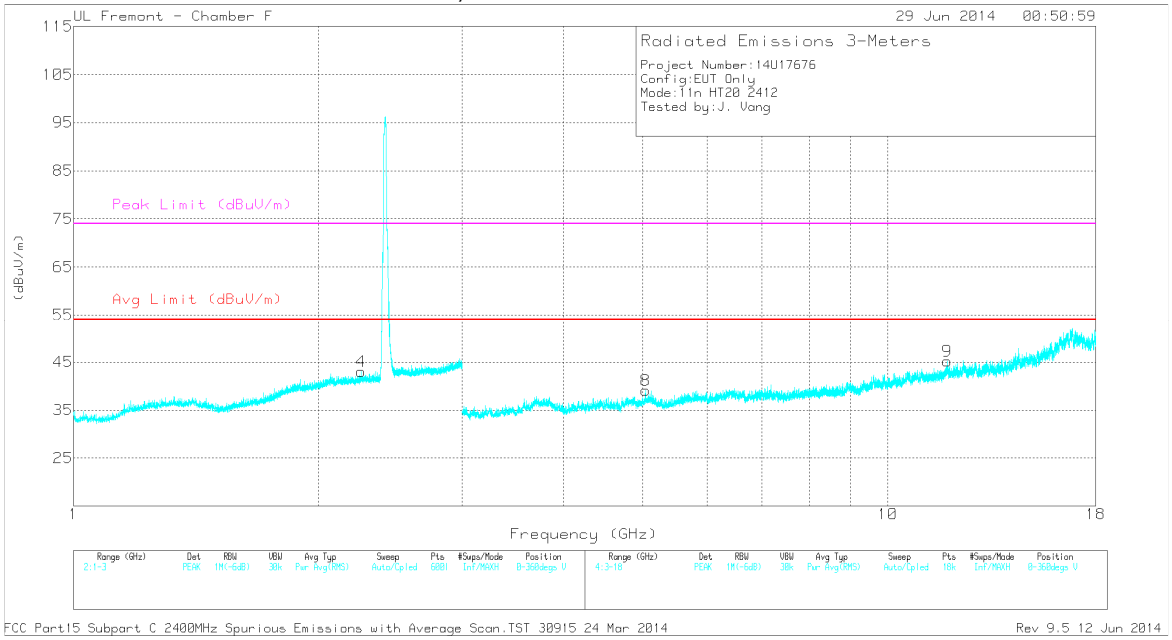
HIGH CHANNEL BANDEDGE, AVERAGE, VERT

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT, CH 1



LOW CHANNEL VERTICAL PLOT, CH 1



DATA

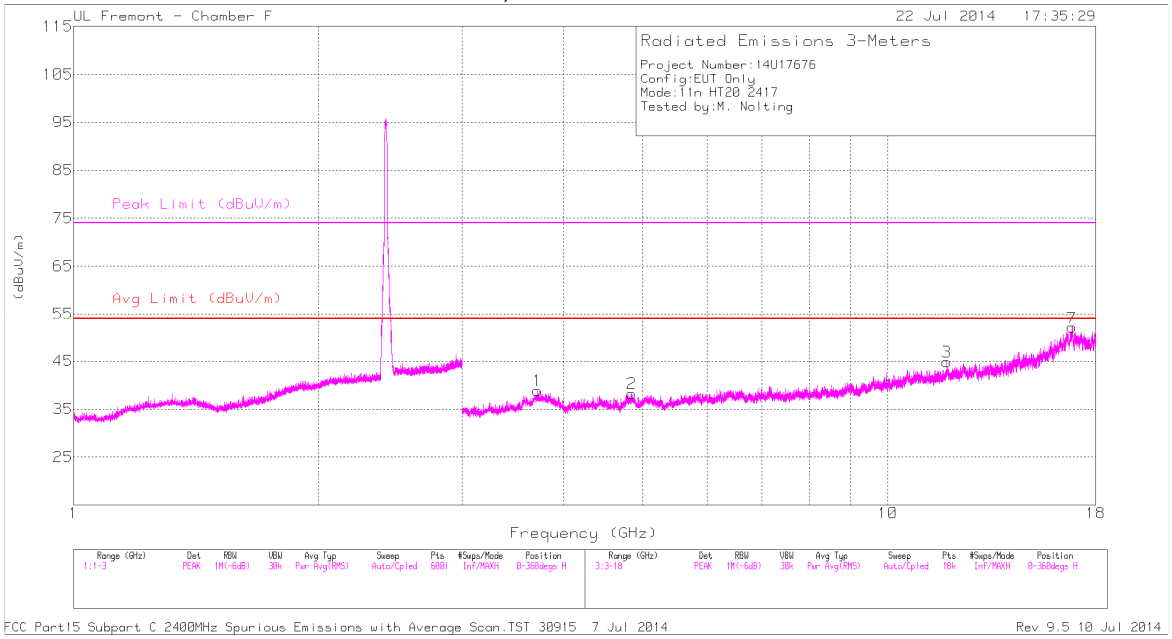
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.325	36.81	PK2	29.9	-26.6	40.11	-	-	74	-33.89	10	321	H
	* 1.325	30.24	MAv1	29.8	-26.6	33.44	54	-20.56	-	-	10	321	H
2	* 2.776	36.24	PK2	32.8	-22.7	46.34	-	-	74	-27.66	300	357	H
	* 2.776	29.75	MAv1	32.9	-22.7	39.95	54	-14.05	-	-	300	357	H
3	* 2.839	36.31	PK2	33	-22.6	46.71	-	-	74	-27.29	229	195	H
	* 2.838	29.75	MAv1	33	-22.6	40.15	54	-13.85	-	-	229	195	H
4	* 2.252	36.29	PK2	31.8	-23.3	44.79	-	-	74	-29.21	287	157	V
	* 2.253	29.82	MAv1	31.8	-23.3	38.32	54	-15.68	-	-	287	157	V
5	* 4.81	32.55	PK2	34.1	-27.3	39.35	-	-	74	-34.65	282	175	H
	* 4.81	26.03	MAv1	34.1	-27.3	32.83	54	-21.17	-	-	282	175	H
6	* 10.867	29.43	PK2	38.1	-21.8	45.73	-	-	74	-28.27	301	377	H
	* 10.868	22.87	MAv1	38.1	-21.8	39.17	54	-14.83	-	-	301	377	H
7	* 12.366	30.2	PK2	38.9	-21.2	47.9	-	-	74	-26.1	336	312	H
	* 12.365	23.68	MAv1	38.9	-21.3	41.28	54	-12.72	-	-	336	312	H
8	* 5.04	30.67	PK2	34.3	-28.2	36.77	-	-	74	-37.23	336	312	V
	* 5.04	27.41	MAv1	34.3	-28.2	33.51	54	-20.49	-	-	336	312	V
9	* 11.833	29.77	PK2	38.8	-21.4	47.17	-	-	74	-26.83	338	310	V
	* 11.833	23.15	MAv1	38.8	-21.4	40.55	54	-13.45	-	-	338	310	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

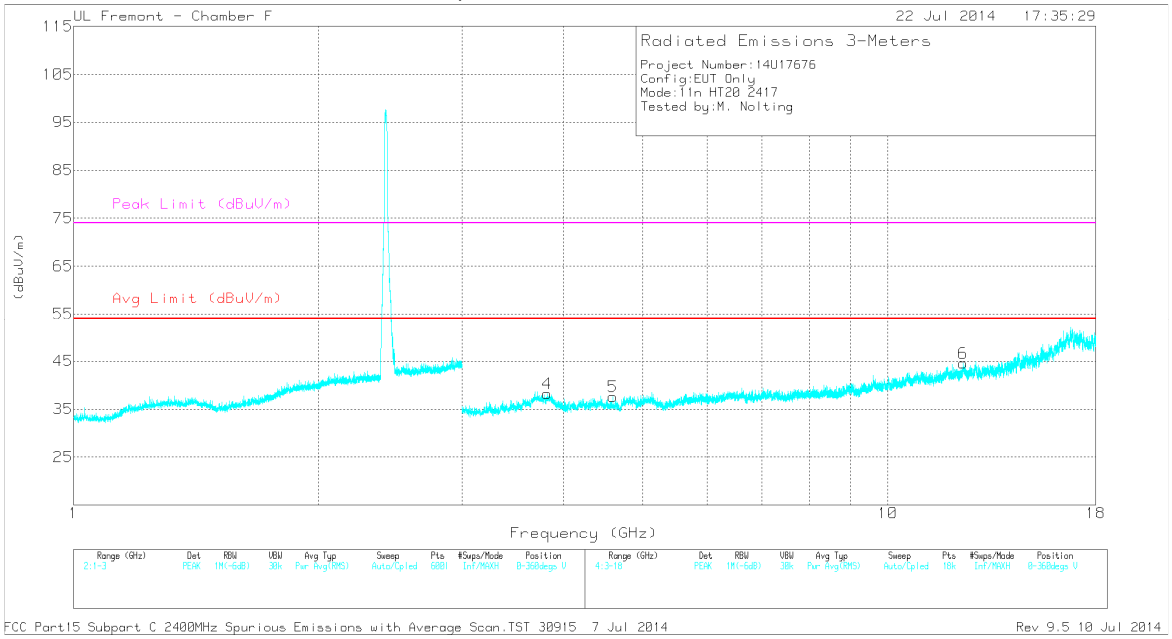
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

LOW CHANNEL HORIZONTAL PLOT, CH 2



LOW CHANNEL VERTICAL PLOT, CH 2



DATA

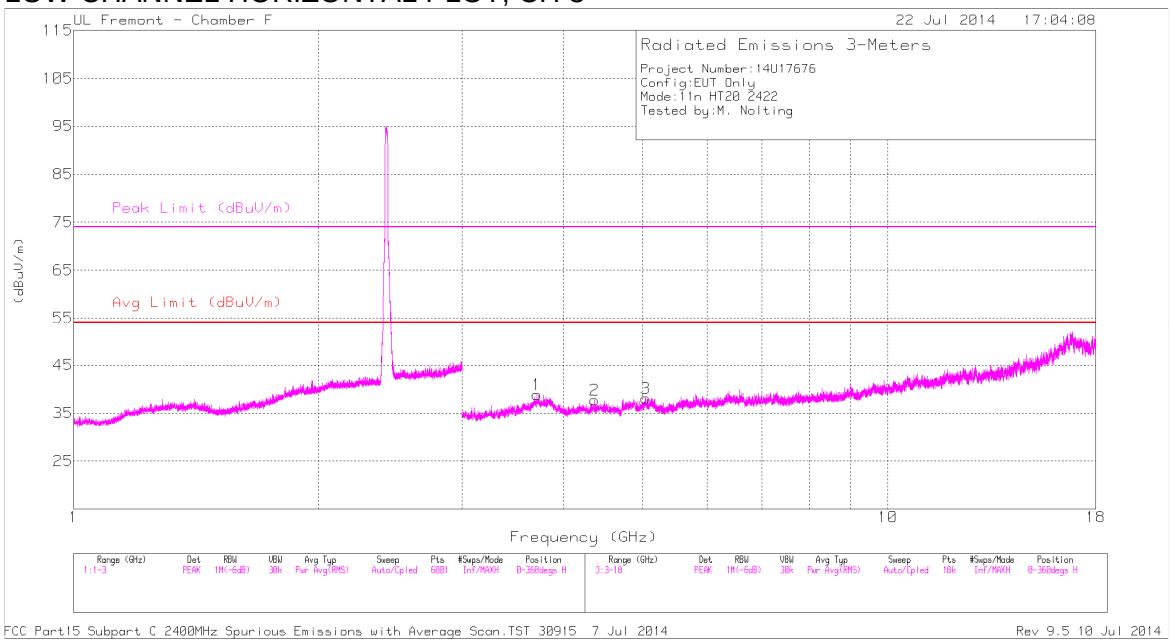
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.712	38.8	PK2	34.8	-29.4	44.2	-	-	74	-29.8	22	206	H
* 3.714	27.6	MAv1	34.8	-29.5	32.9	54	-21.1	-	-	22	206	H
* 4.845	36.9	PK2	34.1	-27.3	43.7	-	-	74	-30.3	155	135	H
* 4.845	25.33	MAv1	34.1	-27.3	32.13	54	-21.87	-	-	155	135	H
* 11.809	34.32	PK2	38.7	-21.6	51.42	-	-	74	-22.58	332	322	H
* 11.81	22.57	MAv1	38.7	-21.6	39.67	54	-14.33	-	-	332	322	H
* 3.817	39.24	PK2	34.3	-28.9	44.64	-	-	74	-29.36	139	108	V
* 3.817	27.13	MAv1	34.3	-28.9	32.53	54	-21.47	-	-	139	108	V
* 4.594	37.74	PK2	34	-28.6	43.14	-	-	74	-30.86	84	365	V
* 4.598	26.32	MAv1	34.1	-28.6	31.82	54	-22.18	-	-	84	365	V
* 12.376	34.48	PK2	38.9	-21.5	51.88	-	-	74	-22.12	162	163	V
* 12.379	23.17	MAv1	38.9	-21.6	40.47	54	-13.53	-	-	162	163	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

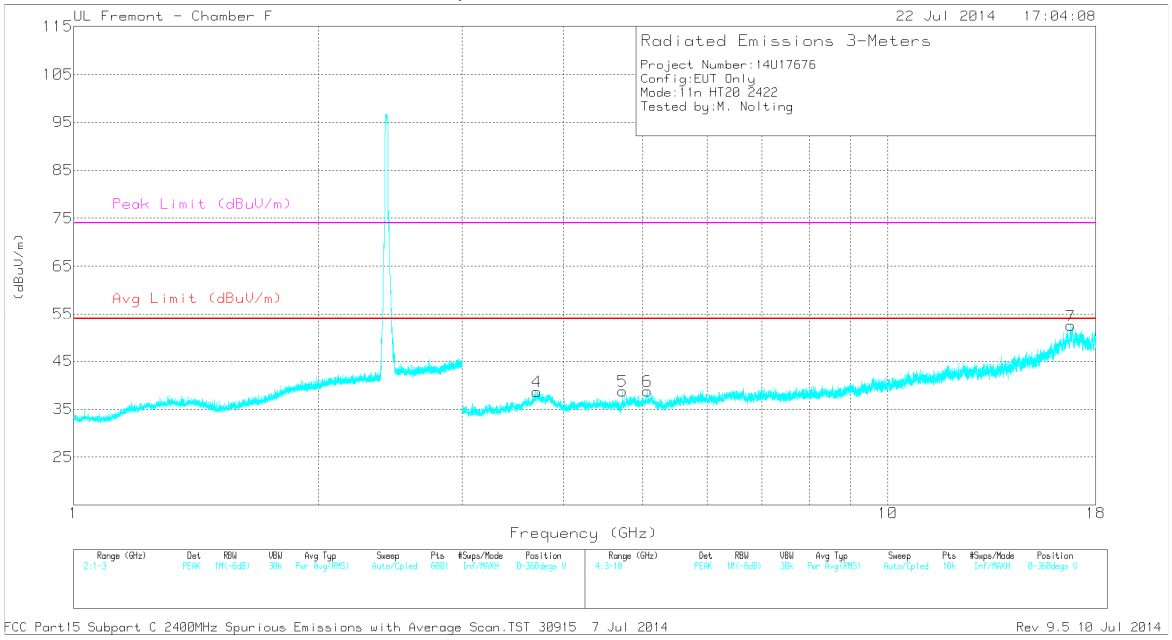
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

LOW CHANNEL HORIZONTAL PLOT, CH 3



LOW CHANNEL VERTICAL PLOT, CH 3

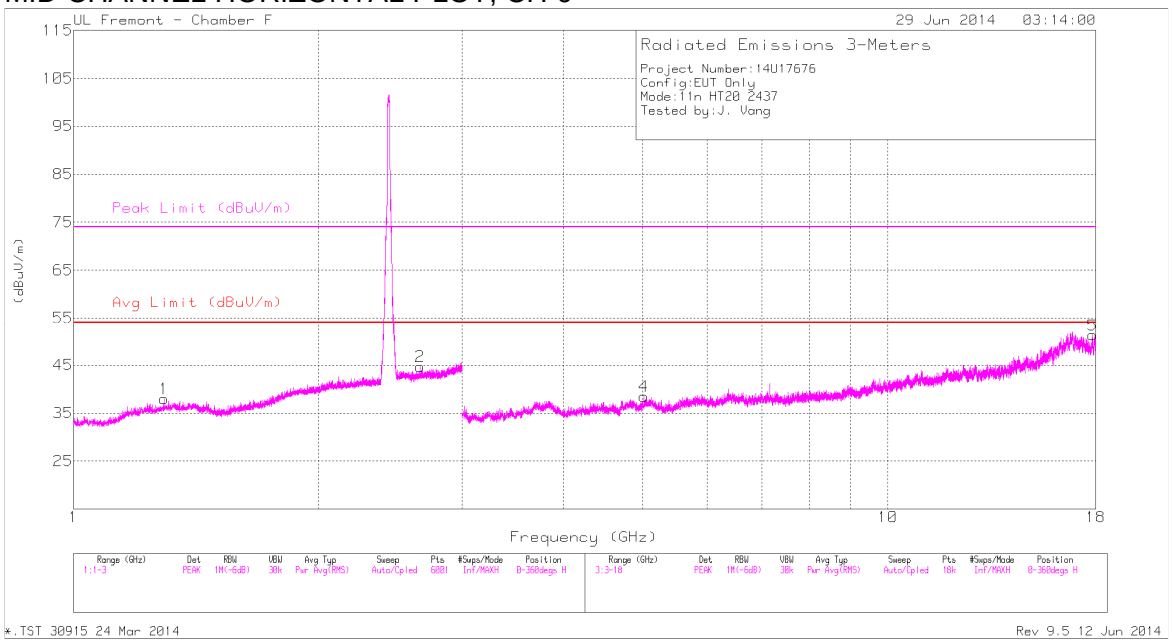


DATA

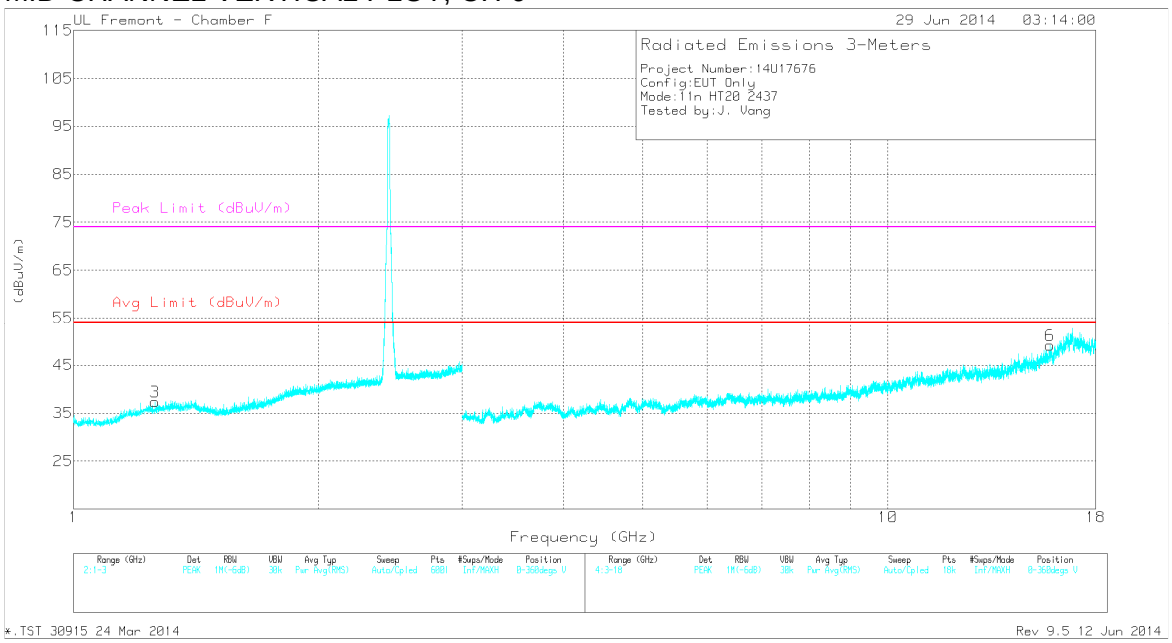
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.705	38.95	PK2	34.8	-29.4	44.35	-	-	74	-29.65	333	242	H
* 3.705	28.05	MAv1	34.8	-29.4	33.45	54	-20.55	-	-	333	242	H
* 4.36	38.22	PK2	33.8	-29.3	42.72	-	-	74	-31.28	148	266	H
* 4.361	27.28	MAv1	33.8	-29.3	31.78	54	-22.22	-	-	148	266	H
* 5.04	38.21	PK2	34.3	-28.2	44.31	-	-	74	-29.69	297	175	H
* 5.043	26.61	MAv1	34.3	-28.1	32.81	54	-21.19	-	-	297	175	H
* 3.705	38.99	PK2	34.8	-29.4	44.39	-	-	74	-29.61	29	113	V
* 3.705	27.68	MAv1	34.8	-29.4	33.08	54	-20.92	-	-	29	113	V
* 4.722	38.98	PK2	34.1	-28.3	44.78	-	-	74	-29.22	255	284	V
* 4.722	27.12	MAv1	34.1	-28.3	32.92	54	-21.08	-	-	255	284	V
* 5.066	37.22	PK2	34.3	-27.7	43.82	-	-	74	-30.18	73	120	V
* 5.066	25.99	MAv1	34.3	-27.7	32.59	54	-21.41	-	-	73	120	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL HORIZONTAL PLOT, CH 6



MID CHANNEL VERTICAL PLOT, CH 6



DATA

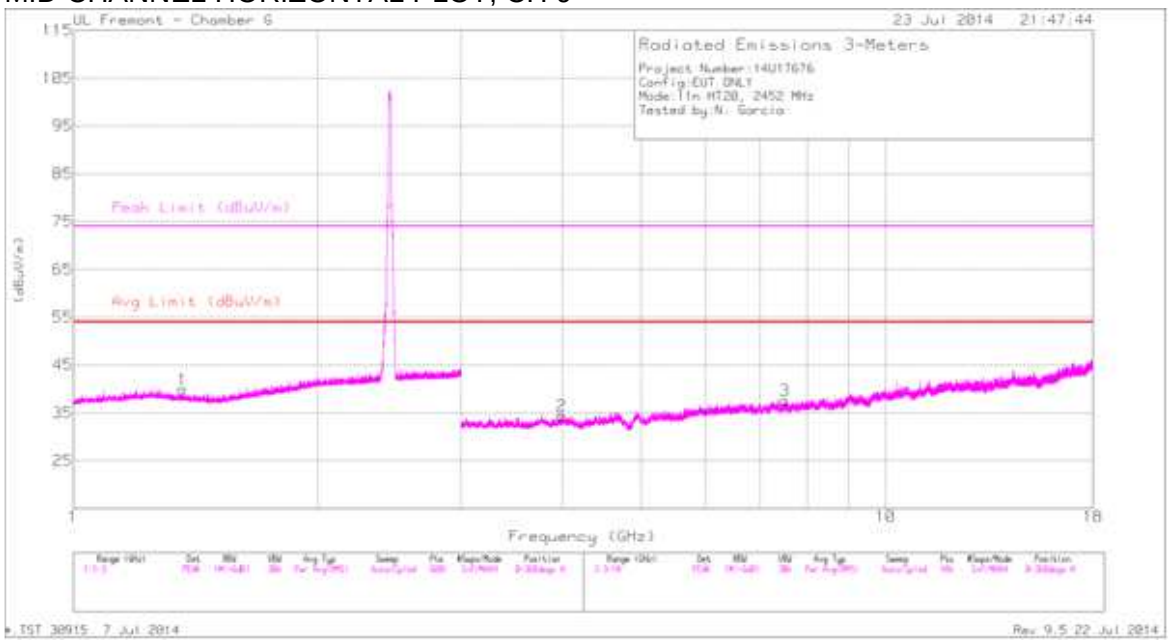
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.292	36.78	PK2	30	-27.1	39.68	-	-	74	-34.32	58	136	H
	* 1.292	30.27	MAv1	30	-27.1	33.17	54	-20.83	-	-	58	136	H
2	* 2.664	35.95	PK2	32.7	-23	45.65	-	-	74	-28.35	159	245	H
	* 2.664	29.96	MAv1	32.7	-23.1	39.56	54	-14.44	-	-	159	245	H
3	* 1.259	36.42	PK2	29.6	-26.8	39.22	-	-	74	-34.78	202	133	V
	* 1.258	29.99	MAv1	29.6	-26.8	32.79	54	-21.21	-	-	202	133	V
4	* 5.018	33.7	PK2	34.2	-28.9	39	-	-	74	-35	148	133	H
	* 5.016	27.21	MAv1	34.2	-29	32.41	54	-21.59	-	-	148	133	H
5	* 17.827	29.53	PK2	41.7	-17.6	53.63	-	-	74	-20.37	164	189	H
	* 17.827	23.05	MAv1	41.7	-17.6	47.15	54	-6.85	-	-	164	189	H
6	* 15.819	31.09	PK2	40.5	-20.1	51.49	-	-	74	-22.51	233	141	V
	* 15.819	24.49	MAv1	40.5	-20.1	44.89	54	-9.11	-	-	233	141	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

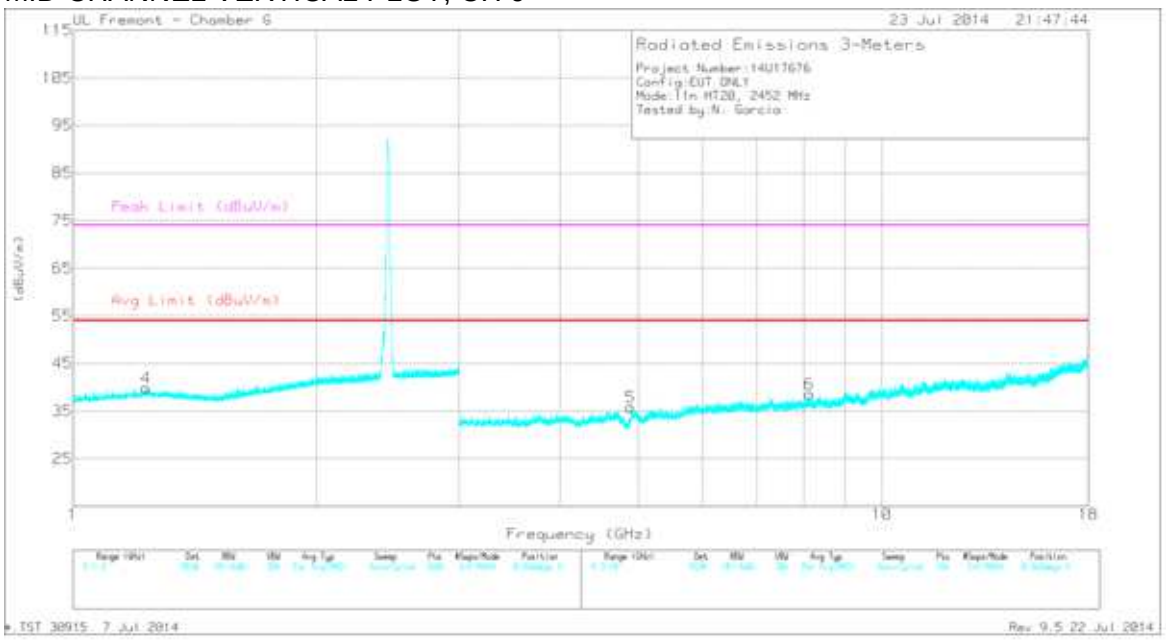
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL HORIZONTAL PLOT, CH 9



MID CHANNEL VERTICAL PLOT, CH 9



DATA

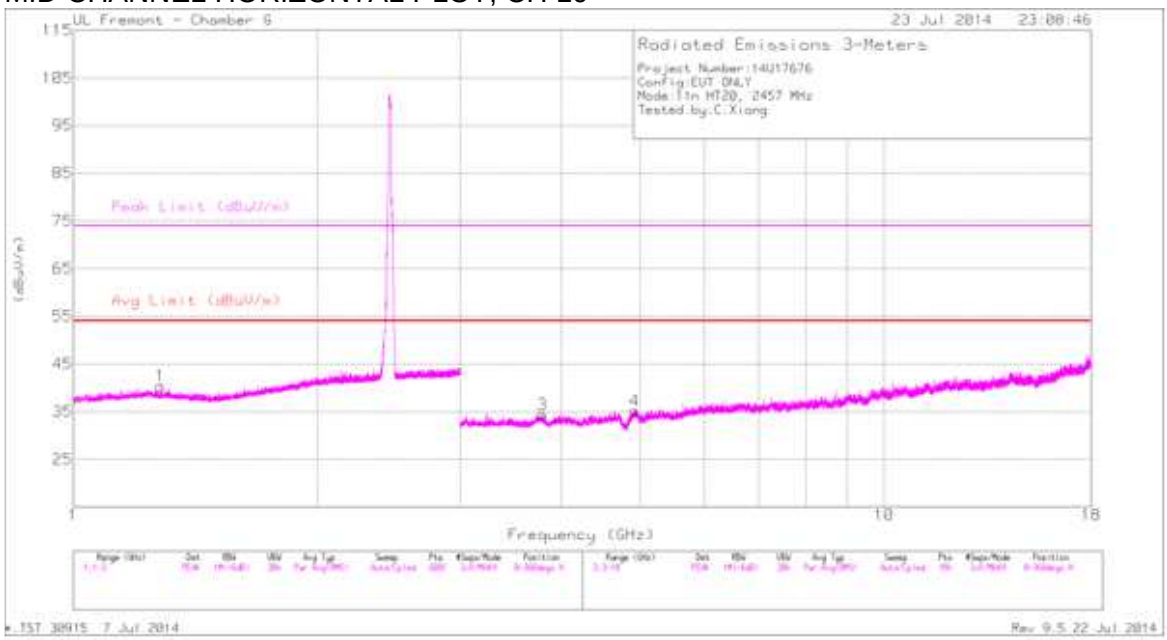
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.363	43.91	PK2	28.6	-25.9	46.61	-	-	74	-27.39	10	112	H
	* 1.362	32.73	MAv1	28.6	-25.9	35.43	54	-18.57	-	-	10	112	H
4	* 1.229	43.76	PK2	29.1	-26	46.86	-	-	74	-27.14	53	190	V
	* 1.23	32.88	MAv1	29.1	-26	35.98	54	-18.02	-	-	53	190	V
2	* 3.995	41.02	PK2	33.4	-32.8	41.62	-	-	74	-32.38	20	257	H
	* 3.994	30.11	MAv1	33.4	-32.8	30.71	54	-23.29	-	-	20	257	H
3	* 7.518	40.35	PK2	35.6	-30.6	45.35	-	-	74	-28.65	8	119	H
	* 7.519	29.08	MAv1	35.6	-30.6	34.08	54	-19.92	-	-	8	119	H
5	* 4.89	41.09	PK2	34.1	-33	42.19	-	-	74	-31.81	33	210	V
	* 4.891	30.43	MAv1	34.1	-33	31.53	54	-22.47	-	-	33	210	V
6	* 8.126	39.7	PK2	35.8	-30	45.5	-	-	74	-28.5	338	119	V
	* 8.127	28.62	MAv1	35.8	-30	34.42	54	-19.58	-	-	338	119	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

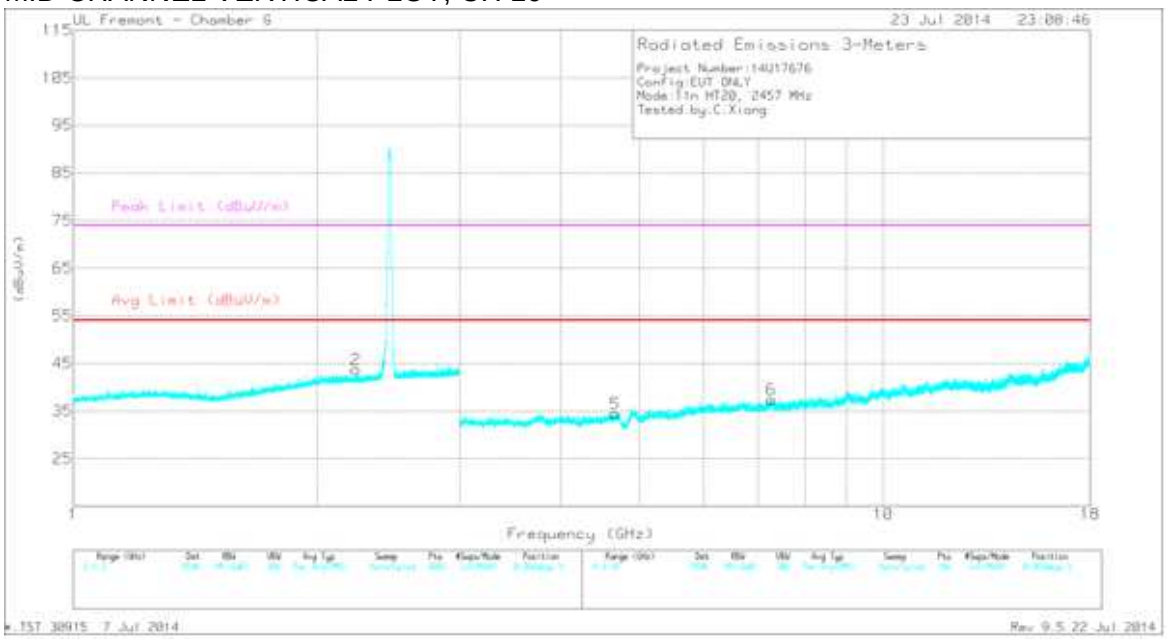
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL HORIZONTAL PLOT, CH 10



MID CHANNEL VERTICAL PLOT, CH 10



DATA

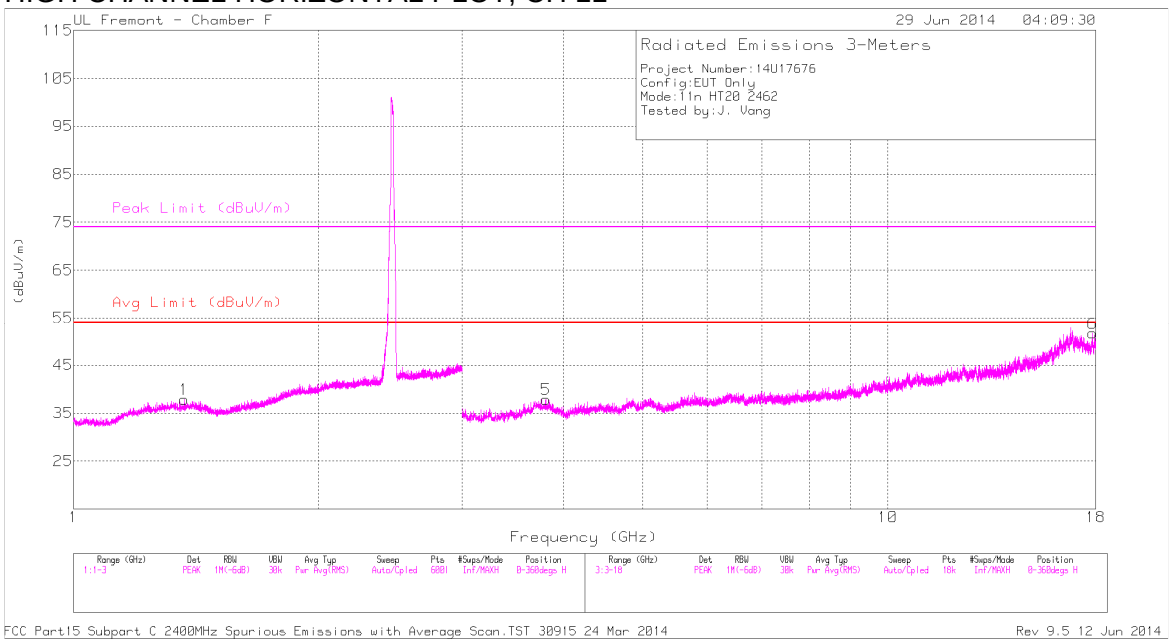
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.282	43.5	PK2	29	-26	46.5	-	-	74	-27.5	249	157	H
	* 1.28	32.71	MAv1	29	-26	35.71	54	-18.29	-	-	249	157	H
2	* 2.235	43.6	PK2	31.5	-25.1	50	-	-	74	-24	185	142	V
	* 2.232	32.38	MAv1	31.5	-25.1	38.78	54	-15.22	-	-	185	142	V
3	* 3.785	42.8	PK2	33	-32.8	43	-	-	74	-31	121	183	H
	* 3.787	31.23	MAv1	33	-32.9	31.33	54	-22.67	-	-	121	183	H
4	* 4.917	41.66	PK2	34.1	-33.2	42.56	-	-	74	-31.44	18	202	H
	* 4.916	30.48	MAv1	34.1	-33.2	31.38	54	-22.62	-	-	18	202	H
5	* 4.663	41.29	PK2	34	-33.1	42.19	-	-	74	-31.81	84	138	V
	* 4.666	30.66	MAv1	34	-33.1	31.56	54	-22.44	-	-	84	138	V
6	* 7.277	40.01	PK2	35.6	-30.5	45.11	-	-	74	-28.89	184	249	V
	* 7.274	28.97	MAv1	35.6	-30.6	33.97	54	-20.03	-	-	184	249	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

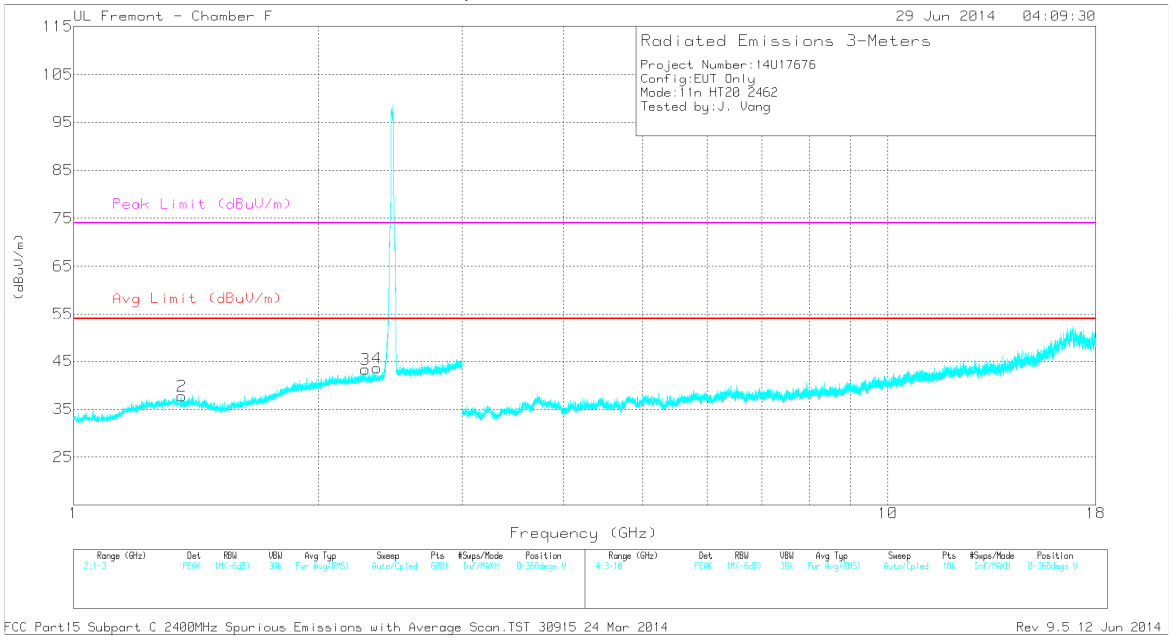
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL HORIZONTAL PLOT, CH 11



HIGH CHANNEL VERTICAL PLOT, CH 11



DATA

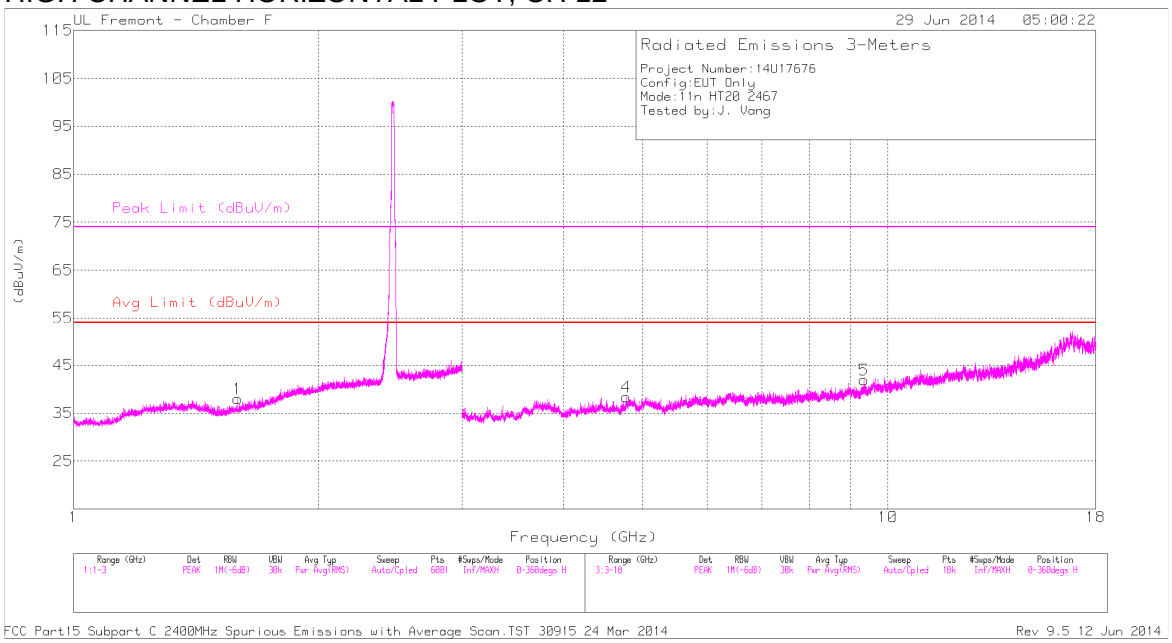
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.368	36.35	PK2	29.5	-26.1	39.75	-	-	74	-34.25	336	181	H
	* 1.367	29.82	MAv1	29.5	-26.1	33.22	54	-20.78	-	-	336	181	H
2	* 1.357	36.34	PK2	29.6	-26.2	39.74	-	-	74	-34.26	328	273	V
	* 1.357	29.85	MAv1	29.6	-26.2	33.25	54	-20.75	-	-	328	273	V
3	* 2.283	36.16	PK2	31.8	-23.4	44.56	-	-	74	-29.44	40	310	V
	* 2.282	29.68	MAv1	31.8	-23.3	38.18	54	-15.82	-	-	40	310	V
4	* 2.358	36.33	PK2	32	-23.6	44.73	-	-	74	-29.27	71	279	V
	* 2.36	29.88	MAv1	32	-23.6	38.28	54	-15.72	-	-	71	279	V
5	* 3.806	33.01	PK2	34.4	-28.6	38.81	-	-	74	-35.19	337	175	H
	* 3.805	26.5	MAv1	34.4	-28.6	32.3	54	-21.7	-	-	337	175	H
6	* 17.827	29.61	PK2	41.7	-17.6	53.71	-	-	74	-20.29	251	250	H
	* 17.826	23.03	MAv1	41.7	-17.7	47.03	54	-6.97	-	-	251	250	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

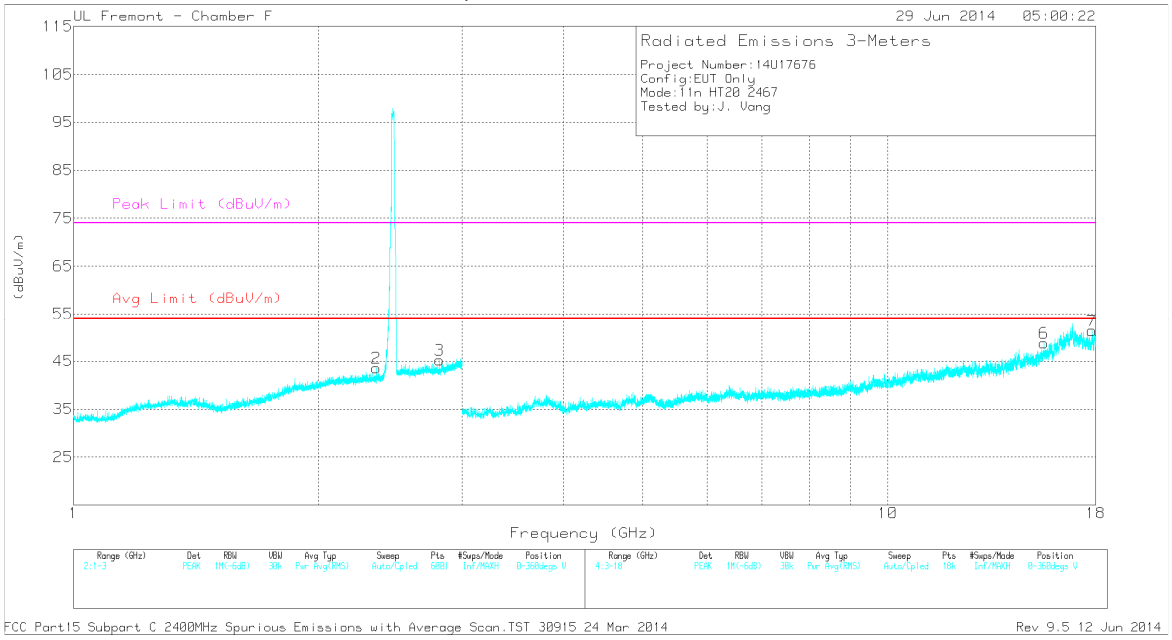
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL HORIZONTAL PLOT, CH 12



HIGH CHANNEL VERTICAL PLOT, CH 12



DATA

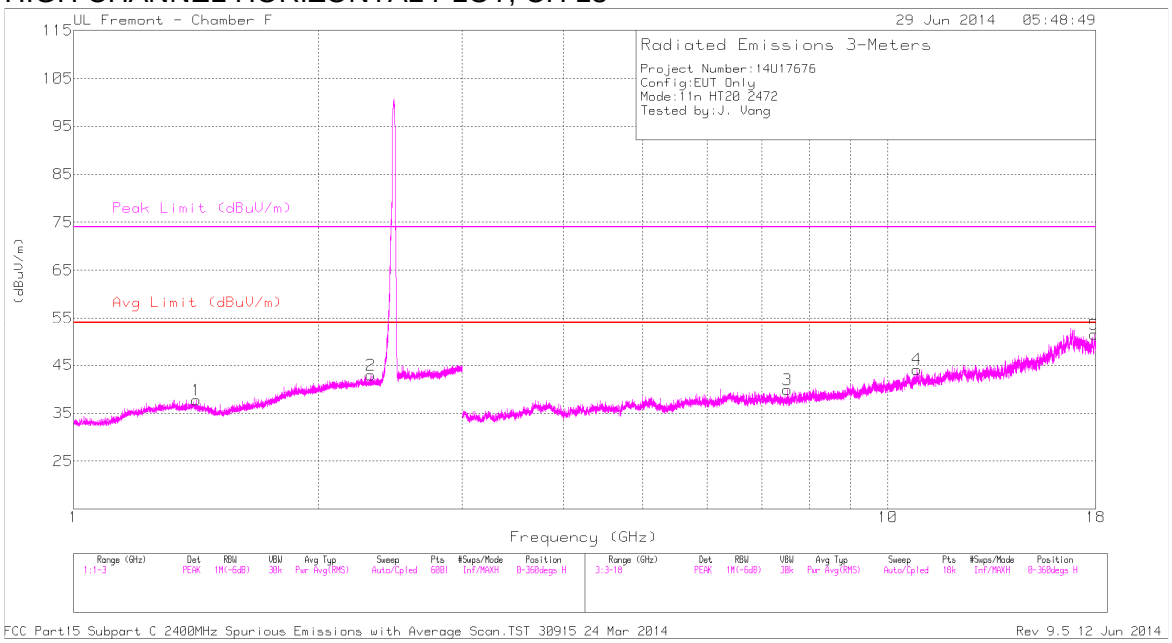
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.59	36.41	PK2	28.5	-25.5	39.41	-	-	74	-34.59	282	370	H
	* 1.591	29.8	MAv1	28.5	-25.5	32.8	54	-21.2	-	-	282	370	H
2	* 2.353	36.44	PK2	32	-23.7	44.74	-	-	74	-29.26	159	137	V
	* 2.354	29.94	MAv1	32	-23.7	38.24	54	-15.76	-	-	159	137	V
3	* 2.813	36.36	PK2	32.9	-23	46.26	-	-	74	-27.74	294	272	V
	* 2.814	29.8	MAv1	32.9	-23	39.7	54	-14.3	-	-	294	272	V
4	* 4.776	33.94	PK2	34.1	-28.1	39.94	-	-	74	-34.06	175	143	H
	* 4.776	27.39	MAv1	34.1	-28.1	33.39	54	-20.61	-	-	175	143	H
5	* 9.348	29.75	PK2	36.5	-22.6	43.65	-	-	74	-30.35	355	222	H
	* 9.348	23.19	MAv1	36.5	-22.6	37.09	54	-16.91	-	-	355	222	H
6	* 15.543	31.17	PK2	40.3	-21.3	50.17	-	-	74	-23.83	206	144	V
	* 15.544	24.59	MAv1	40.3	-21.3	43.59	54	-10.41	-	-	206	144	V
7	* 17.808	29.89	PK2	41.6	-17.9	53.59	-	-	74	-20.41	339	162	V
	* 17.808	23.29	MAv1	41.6	-18	46.89	54	-7.11	-	-	339	162	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

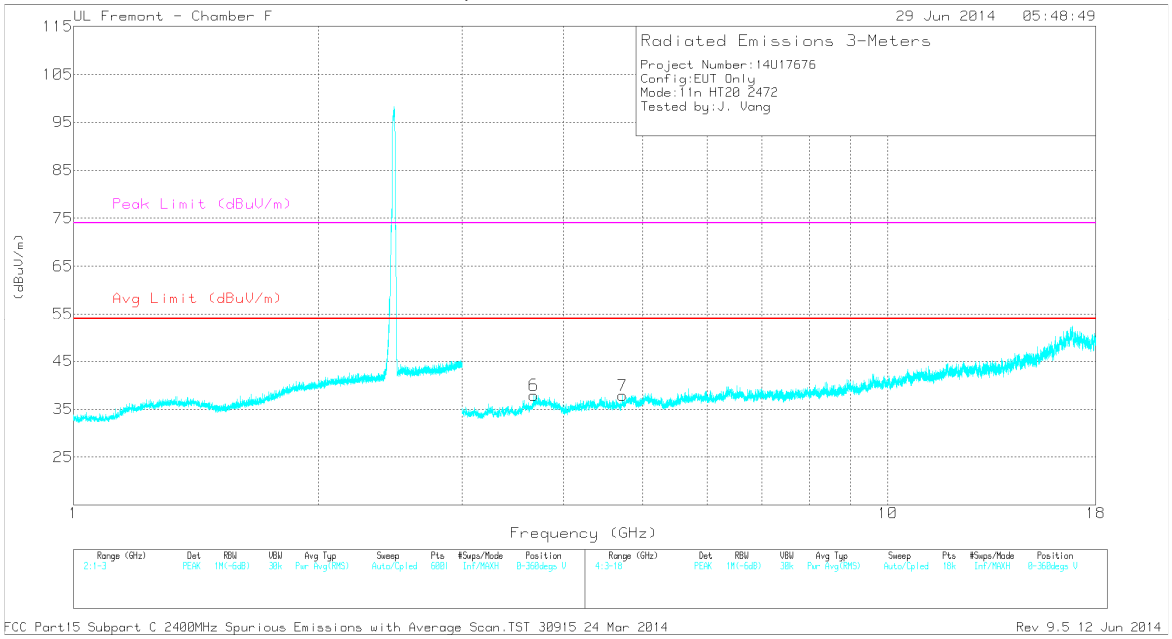
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL HORIZONTAL PLOT, CH 13



HIGH CHANNEL VERTICAL PLOT, CH 13



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.415	36.14	PK2	29.1	-25.4	39.84	-	-	74	-34.16	278	187	H
	* 1.413	29.67	MAv1	29.1	-25.4	33.37	54	-20.63	-	-	278	187	H
2	* 2.32	36.31	PK2	31.9	-23.6	44.61	-	-	74	-29.39	4	294	H
	* 2.319	29.81	MAv1	31.9	-23.6	38.11	54	-15.89	-	-	4	294	H
3	* 7.532	31.69	PK2	35.6	-25.9	41.39	-	-	74	-32.61	268	326	H
	* 7.532	25.15	MAv1	35.6	-25.9	34.85	54	-19.15	-	-	268	326	H
4	* 10.858	29.2	PK2	38.1	-21.7	45.6	-	-	74	-28.4	158	249	H
	* 10.859	22.67	MAv1	38.1	-21.7	39.07	54	-14.93	-	-	158	249	H
5	* 17.948	29.1	PK2	42	-17.4	53.7	-	-	74	-20.3	358	390	H
	* 17.947	22.58	MAv1	42	-17.4	47.18	54	-6.82	-	-	358	390	H
6	* 3.671	33.29	PK2	34.9	-29.4	38.79	-	-	74	-35.21	224	206	V
	* 3.671	26.75	MAv1	34.9	-29.4	32.25	54	-21.75	-	-	224	206	V
7	* 4.722	33.72	PK2	34.1	-28.3	39.52	-	-	74	-34.48	197	200	V
	* 4.723	27.19	MAv1	34.1	-28.4	32.89	54	-21.11	-	-	197	200	V

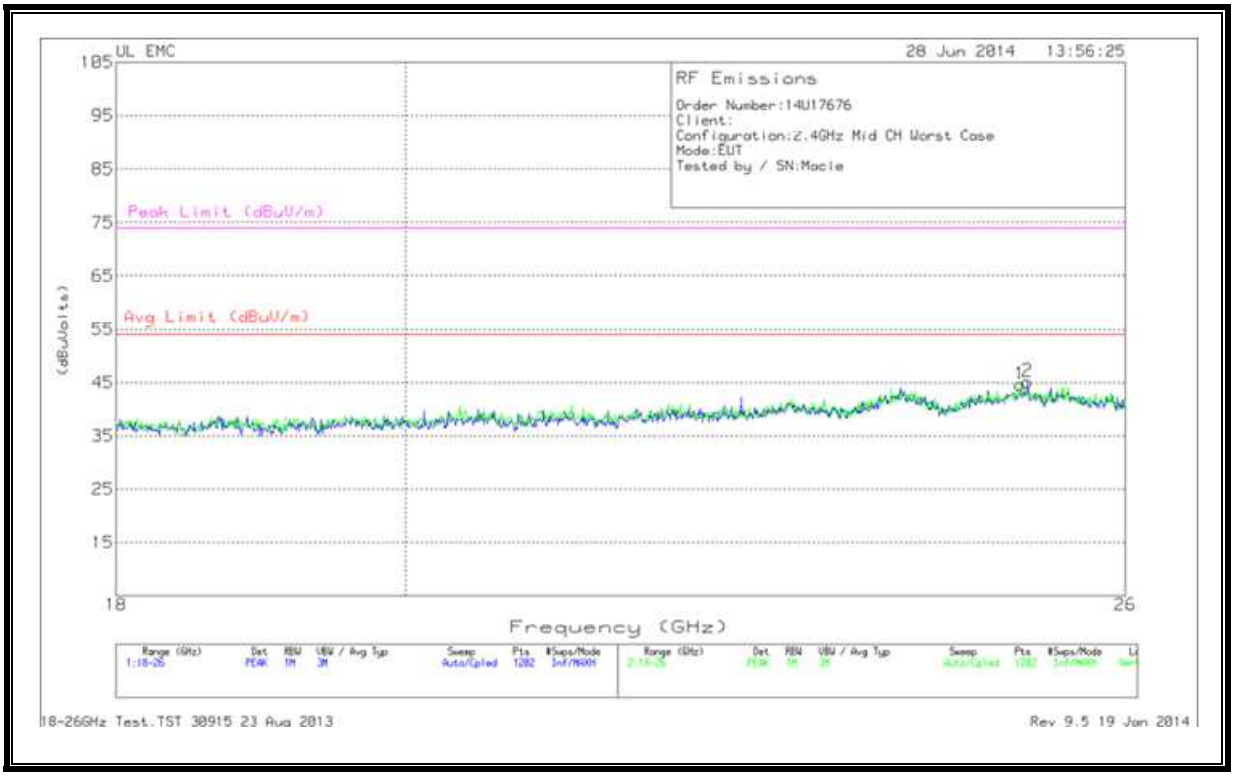
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

10.3. WORST-CASE ABOVE 18 to 26GHz

SPURIOUS EMISSIONS 18 TO 26 GHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)



HORIZONTAL & VERTICAL DATA

Trace Markers

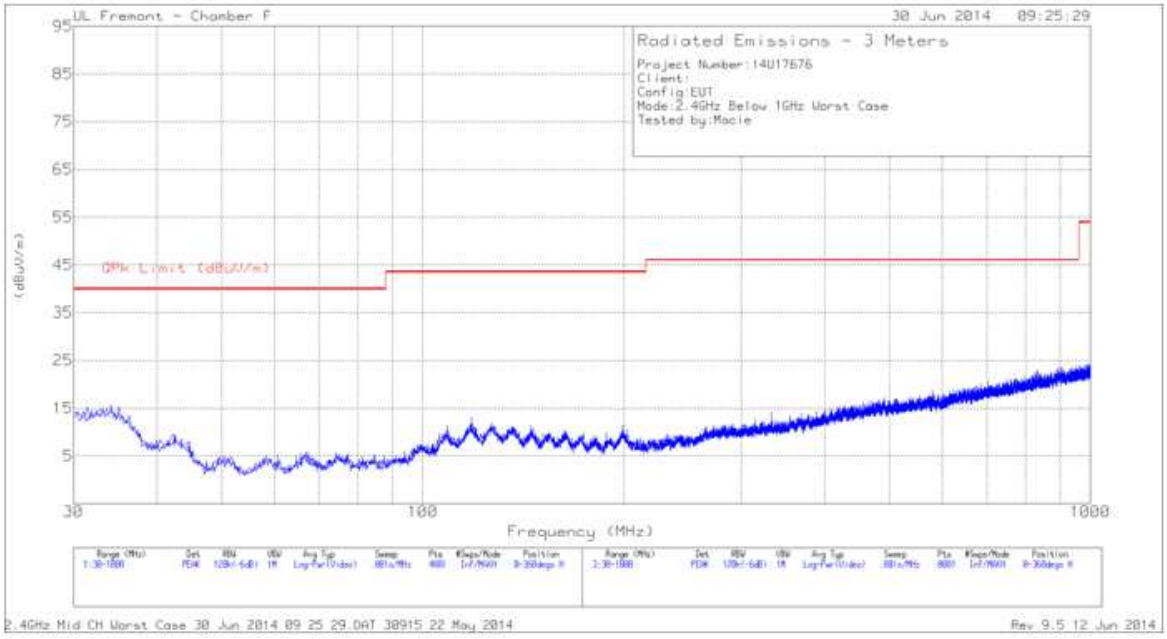
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T89 (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	25.021	43.17	PK	34	-23	-9.5	44.67	54	-9.33	74	-29.33
2	25.087	43.67	PK	33.9	-22.9	-9.5	45.17	54	-8.83	74	-28.83

PK - Peak detector

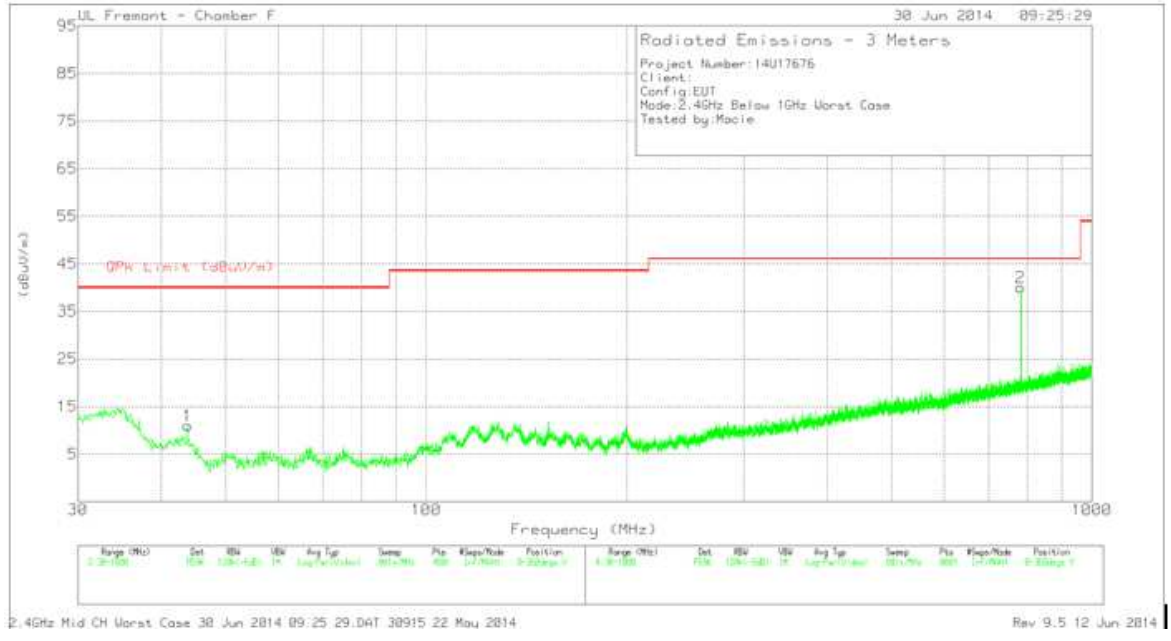
10.4. WORST-CASE BELOW 1 GHz

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

HORIZONTAL PLOT



VERTICAL PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T122 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	43.8225	31.83	PK	11.1	-31.9	11.03	40	-28.97	0-360	100	V
2	782.235	48.19	PK	21.3	-29.4	40.09	46.02	-5.93	0-360	100	V

PK - Peak detector

Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	AF T122 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
781.2221	23.83	QP	21.3	-29.4	15.73	46.02	-30.29	360	103	V

QP - Quasi-Peak detector

2.4GHz Mid CH Worst Case 30 Jun 2014 09 25 29.DAT 30915 22 May 2014

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 7.2.2

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.

RESULTS

6 WORST EMISSIONS

Line-L1 .15 - 30MHz

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1 (dB)	LC Cables 1&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
1	.159	53.14	PK	1.3	0	54.44	65.5	-11.06	-	-
2	.159	36.33	Av	1.3	0	37.63	-	-	55.5	-17.87
3	.24	46.08	PK	.7	0	46.78	62.1	-15.32	-	-
4	.24	28.73	Av	.7	0	29.43	-	-	52.1	-22.67
5	.6765	41.91	PK	.3	0	42.21	56	-13.79	-	-
6	.6765	18.47	Av	.3	0	18.77	-	-	46	-27.23
7	17.6505	39.96	PK	.3	.2	40.46	60	-19.54	-	-
8	17.6505	21.93	Av	.3	.2	22.43	-	-	50	-27.57

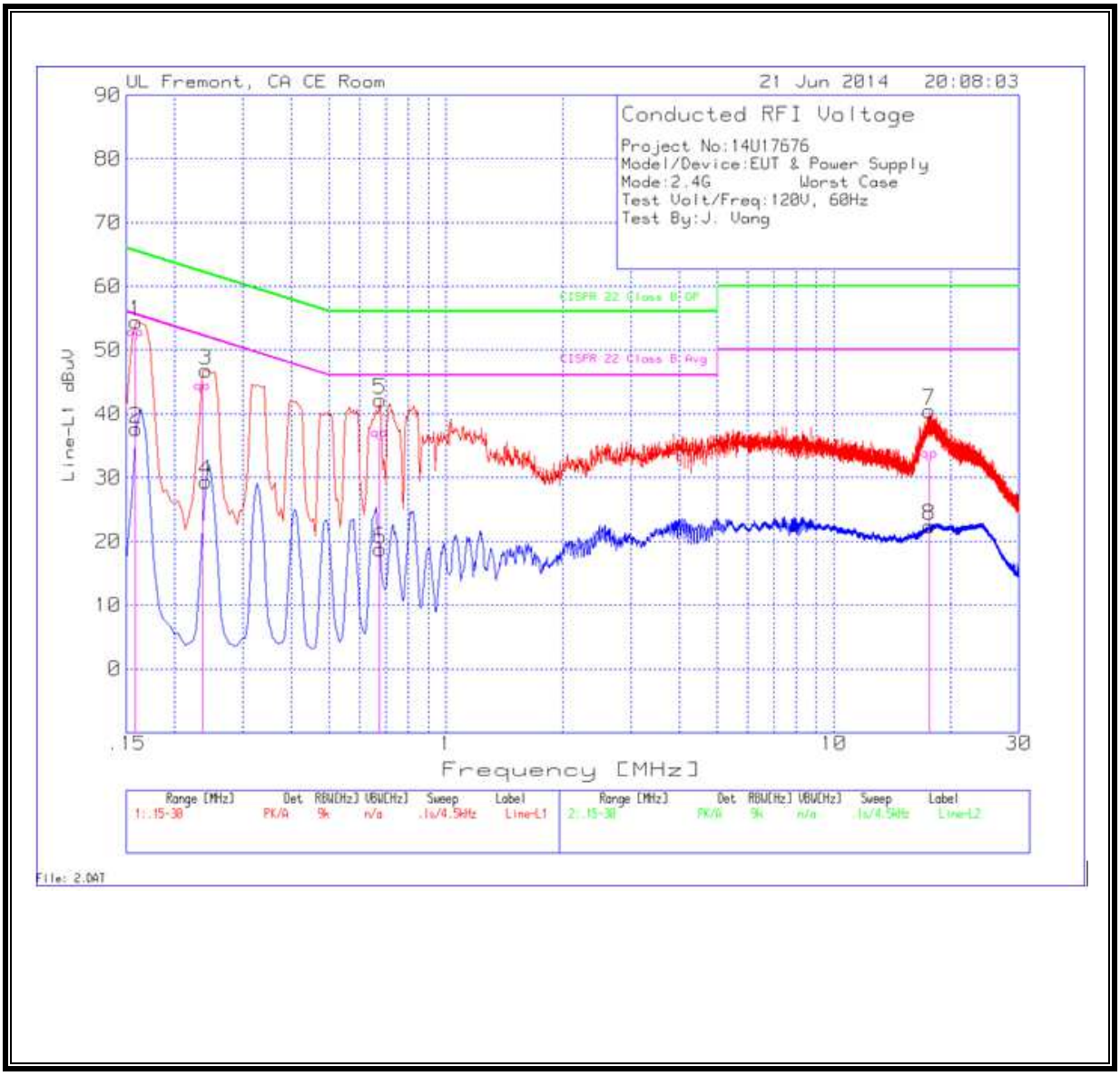
Line-L2 .15 - 30MHz

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2 (dB)	LC Cables 2&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
9	.1635	56.93	PK	1.3	0	58.23	65.3	-7.07	-	-
10	.1635	42.46	Av	1.3	0	43.76	-	-	55.3	-11.54
11	.2445	49.87	PK	.8	0	50.67	61.9	-11.23	-	-
12	.2445	33.1	Av	.8	0	33.9	-	-	51.9	-18
13	.33	47.46	PK	.5	0	47.96	59.5	-11.54	-	-
14	.33	31.61	Av	.5	0	32.11	-	-	49.5	-17.39
15	.6585	43.24	PK	.3	0	43.54	56	-12.46	-	-
16	.6585	28.78	Av	.3	0	29.08	-	-	46	-16.92
17	.8025	43.42	PK	.3	0	43.72	56	-12.28	-	-
18	.8025	19.59	Av	.3	0	19.89	-	-	46	-26.11

PK - Peak detector, Av - average detection

LINE 1 RESULTS



LINE 2 RESULTS