



**FCC 47 CFR PART 15 SUBPART C
INDUSTRY CANADA RSS-210 ISSUE 8
CLASS II PERMISSIVE CHANGE
CERTIFICATION TEST REPORT**

FOR

TABLET DEVICE

MODEL NUMBER: A1622, A1623

FCC ID: BCGA1489

IC: 579C-A1489

REPORT NUMBER: 14U18979-E8, VERSION D

ISSUE DATE: FEBRUARY 12, 2015

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
--	01/26/15	Initial Issue	M.Mekuria
B	02/05/15	Revised report per TCB's question	C. Pang
C	02/10/15	Revised Section 5.6 to address TCB's question	T. Chu
D	02/12/15	Revised Section 9.1.1 to address TCB's question	M.Mekuria

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1. ATTESTATION OF TEST RESULTS

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

EUT DESCRIPTION: TABLET DEVICE

MODEL: A1622, A1623

SERIAL NUMBER: F4KNN01FGDKQ(A1622) & F4KNN00LGDKQ(A1623)

DATE TESTED: DECEMBER 3, 2014 - JANUARY 24, 2015

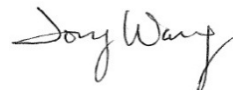
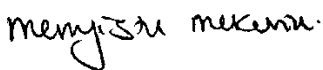
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Pass
INDUSTRY CANADA RSS-210 Issue 8 Annex 8	Pass
INDUSTRY CANADA RSS-GEN Issue 4	Pass

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

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For
UL Verification Services Inc. By:

Tested By:



MENGISTU MEKURIA
SENIOR ENGINEER
UL VERIFICATION SERVICES INC.

TONY WANG
EMC ENGINEER
UL VERIFICATION SERVICES INC.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2009, FCC CFR 47 Part 2, FCC CFR 47 Part 15, RSS-GEN Issue 4, 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
☐ 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:

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

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
Radiated Disturbance, 1 to 6 GHz	± 3.86 dB
Radiated Disturbance, 6 to 18 GHz	± 4.23 dB
Radiated Disturbance, 18 to 26 GHz	± 5.30 dB
Radiated Disturbance, 26 to 40 GHz	± 5.23 dB

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

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

Models A1622 and A1623 are tablet display accessories with IEEE 802.11a/b/g/n (SISO 1x1) and Bluetooth radios.

5.2. DESCRIPTION OF MODELS DIFFERENCES

EUT MODEL	Description
A1622	This is a portable device. It has additional internal battery packs and has a steel/rubber back cover.
A1623	This is a Non-portable device that does not have additional battery packs and has adhesives on bottom side of unit to adhere to a table surface.

5.3. DESCRIPTION OF CLASS II PERMISSIVE CHANGE

To add Models A1622 and A1623 to original Model A1489 grant (FCC ID: BCGA1489, IC: 579C-A1489).

5.4. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an IFA antenna, with a maximum gain as below table:

Frequency (MHz)	Antenna Peak Gain
2400 – 2480	0.812

5.5. SOFTWARE AND FIRMWARE

The software used in the EUT during Bluetooth FHSS testing was version 12.3.748.1192.

5.6. WORST-CASE CONFIGURATION AND MODE

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

The watch is only used in the AC power line and receiver tests, not in the WLAN/BT transmitter testing.

Since the Model A1623 is a desktop device, the fundamental of the EUT was investigated in three orthogonal orientations X, Y, Z only on Model A1622 that is a portable device. Based on the baseline scan it was determined that Z orientation (Portrait) was worst-case orientation; therefore, all final radiated testing was performed with the EUT in Z orientation (Portrait).

Worst-case data rates were:

GFSK mode: DH5
8PSK mode: 3-DH5

DQPSK mode has been verified to have the lowest power.

5.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Laptop	Dell	Lattitude 3640	D49G802	DoC
Laptop Adapter	Dell	HA65NM130	CN-06TFFF-75661-426-03PG-A00	DoC
AC Adapter	Apple	MD836LL/A	N/A	N/A
AC Adapter	Apple	MD506LL/A	N/A	N/A
AC Adapter	Apple	MD592LL/A	N/A	N/A
Watch	Apple	A1638	FGNJ02AFY2F	BCG-E2871

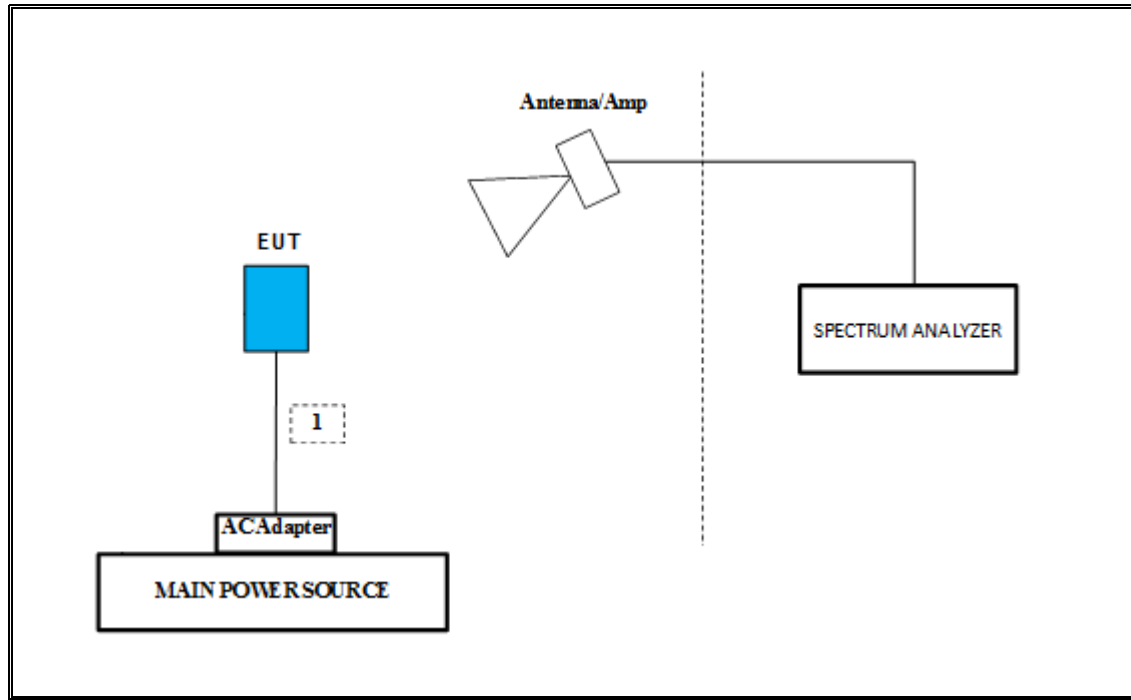
I/O CABLES

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	DC	1	DC	Un-shielded	2.0m	N/A
2	AC	1	AC	Un-shielded	2.0m	N/A
3	DC	1	DC	Un-shielded	1.0m	Custom Lightning Cable # LA0645649-1H

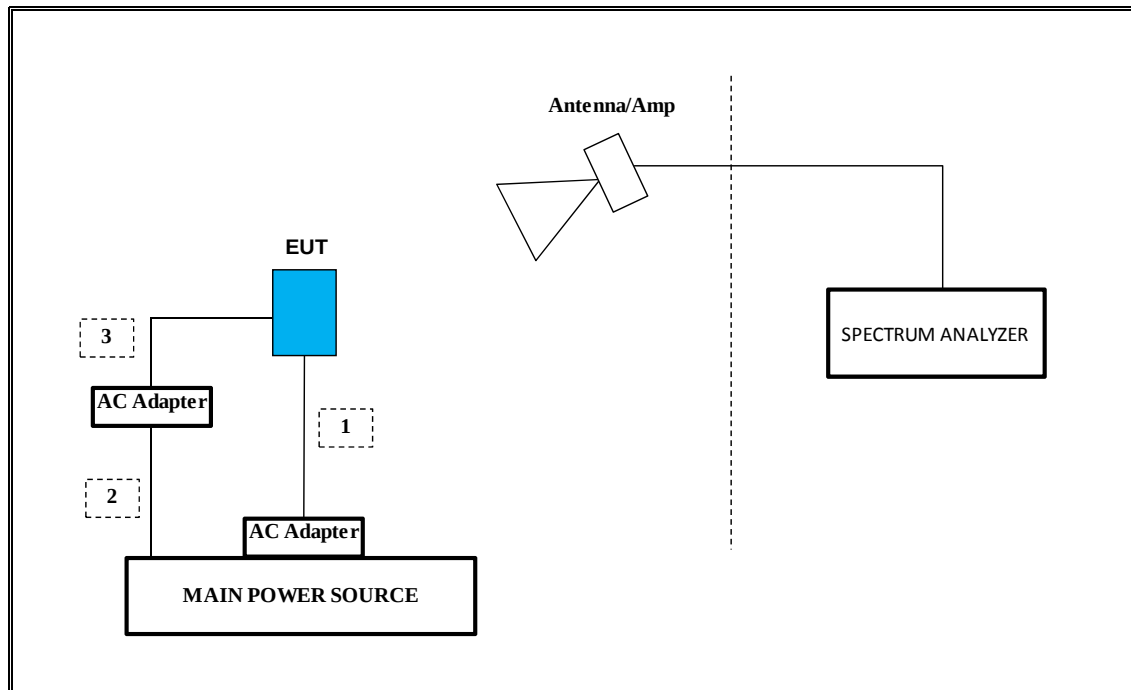
SETUP DIAGRAM – BELOW 1G RADIATED

The EUT is powered by AC/DC adapter. It is only connected to the support laptop computer to make any parameter change.

MODEL: A1622

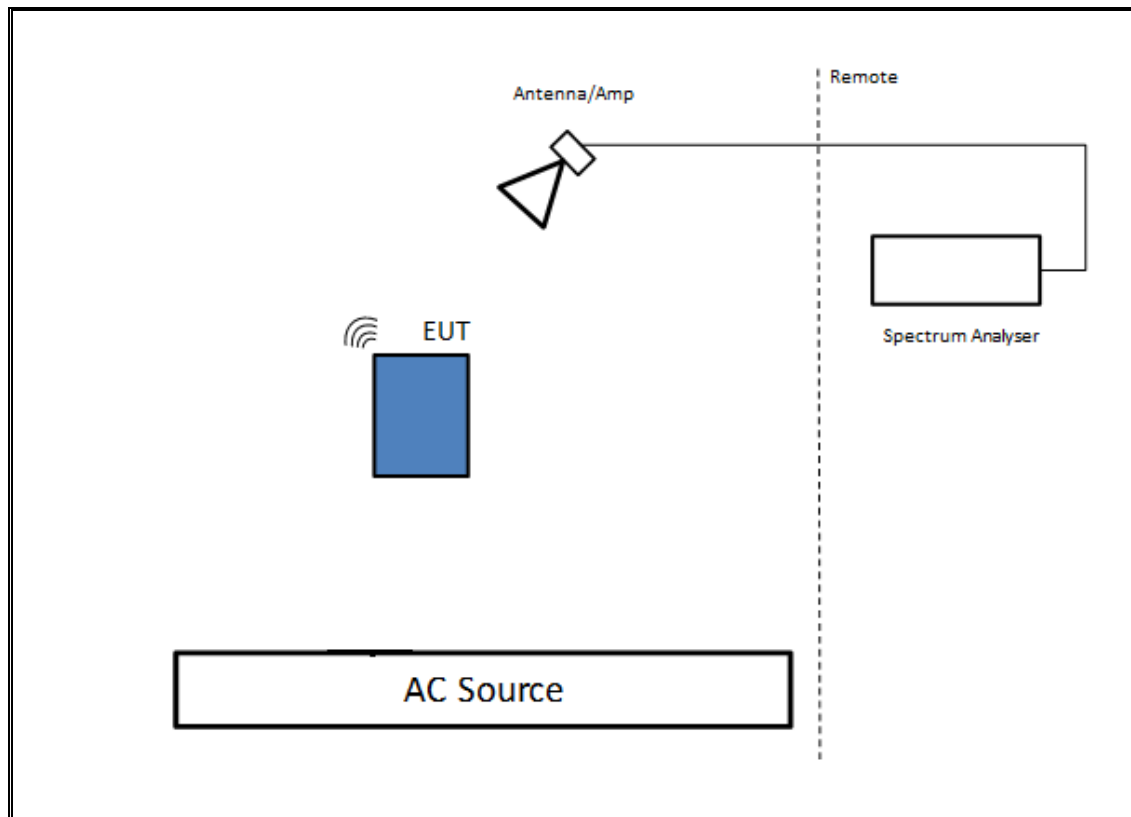


MODEL: A1623



SETUP DIAGRAM – ABOVE 1G RADIATED TEST

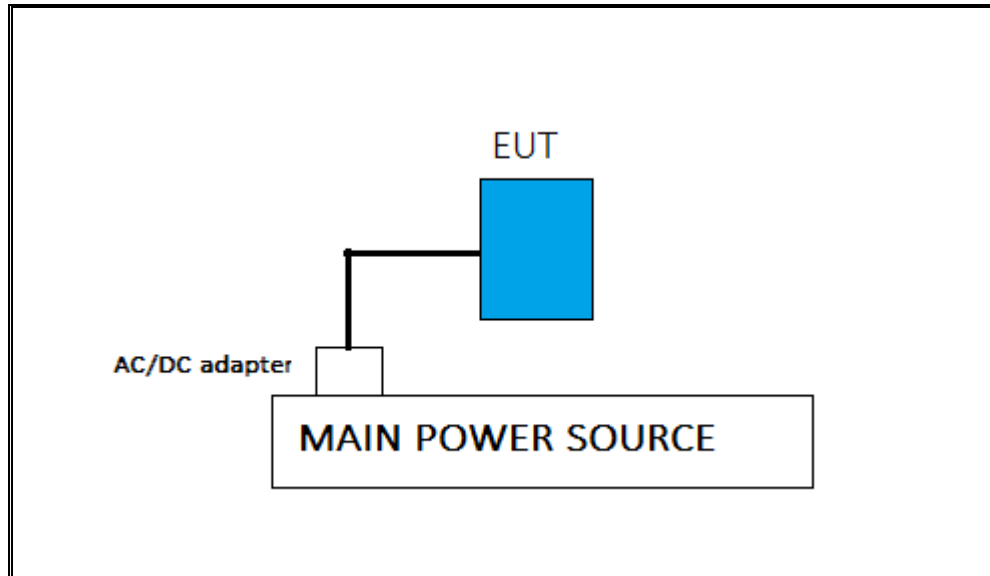
The EUT is a stand-alone unit. It is only connected to the support laptop computer to make any parameter change.



SETUP DIAGRAM – AC LINE EMISSION TESTS

The EUT is powered by AC/DC adapter. It is only connected to the support laptop computer to make any parameter change.

AC/DC ADAPTER MODEL NUMBER: MD506LL/A, MD836LL/A OR MD592LL/A



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	Serial Number	Cal Due
Antenna, Horn 1-18GHz	ETS Lindgren	3117	00143448	2/18/2015
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences	JB3	A022813-2	2/26/2015
Amplifier, 1 - 18GHz	Miteq	AFS42-00101800-25-S-42	1782158	1/26/2016
Amplifier, 10KHz to 1GHz, 32dB	Sonoma	310N	323562	4/23/2015
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent	N9030A	MY52350675	3/11/2015
Antenna, Horn 1-18GHz	ETS Lindgren	3117	00143449	2/25/2015
Amplifier, 1 - 18GHz	Miteq	AFS42-00101800-25-S-42	No Serial Number	2/7/2015
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent	N9030A	US51350187	5/2/2015
Antenna, Horn 1-18GHz	ETS Lindgren	3117	00165318	4/14/2015
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences	JB3	A051314-2	4/27/2015
Amplifier, 1 - 18GHz	Miteq	AFS42-00101800-25-S-42	1818464	6/5/2015
Amplifier, 10KHz to 1GHz, 32dB	Sonoma	310N	325118	6/5/2015
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent	N9030A	MY53311010	5/17/2015
Amplifier, 1 to 26.5GHz, 23.5dB Gain minimum	Agilent	8449B	3008A04710	3/25/2015
Antenna, Horn 18 to 26.5GHz	ARA	SWH-28	1007	5/9/2015
Spectrum Analyzer, 40 GHz	Agilent	8564E	3943A01643	8/6/2015

7. DUTY CYCLE

LIMITS

None; for reporting purposes only.

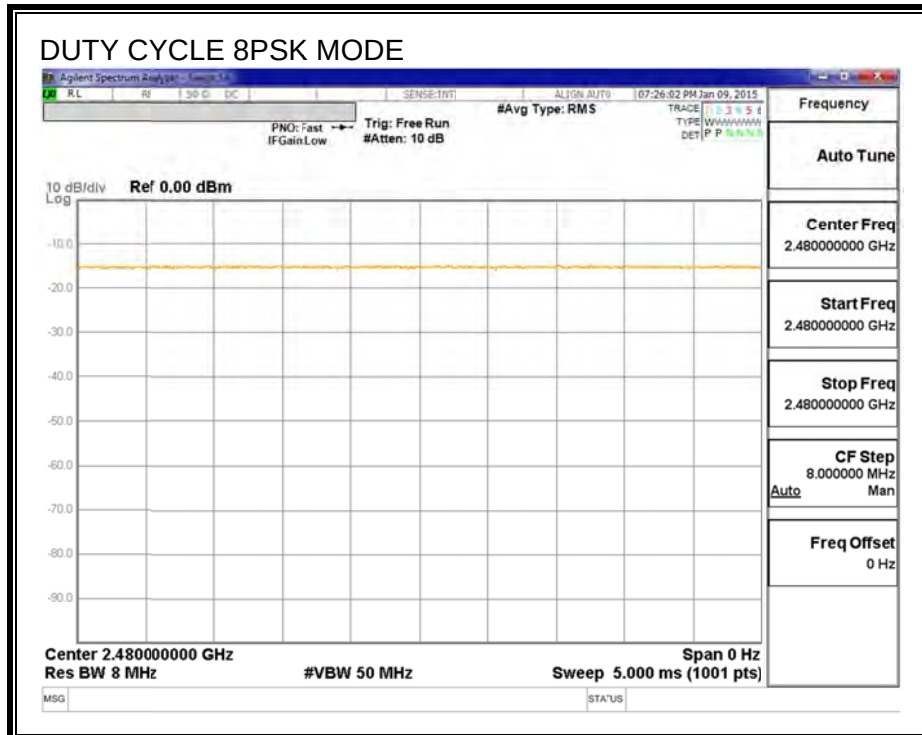
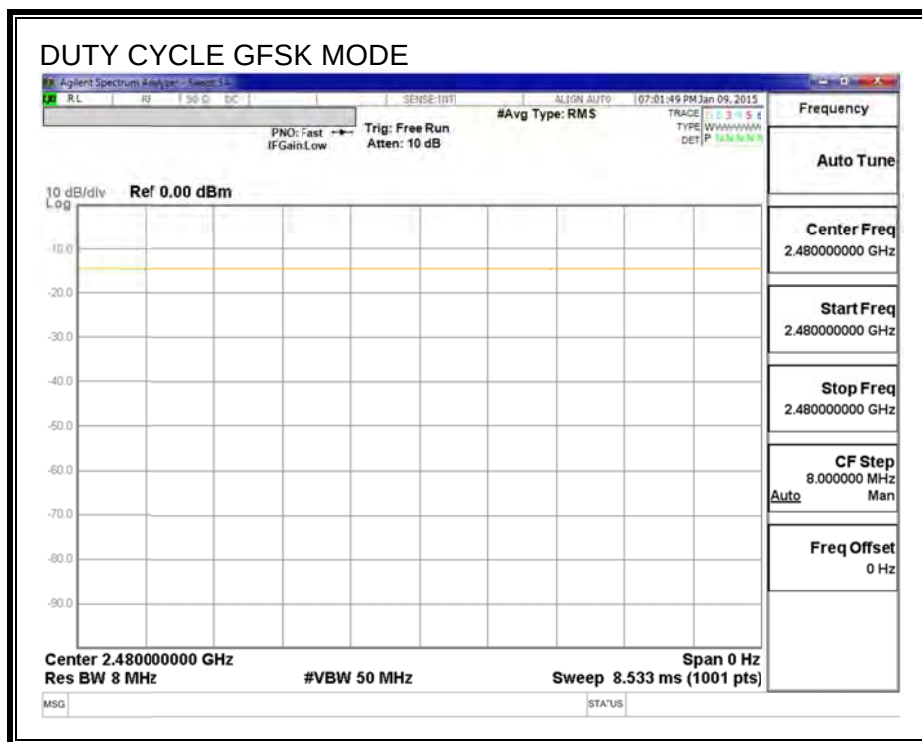
PROCEDURE

KDB 789033 Zero-Span Spectrum Analyzer Method.

ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
2.4 GHz band (Hopping OFF)						
Bluetooth GFSK	1.000	1.000	1.000	100.00%	0.00	0.010
Bluetooth 8PSK	1.000	1.000	1.000	100.00%	0.00	0.010

7.1. DUTY CYCLE PLOTS



8. ANTENNA PORT TEST RESULTS

For all antenna port results, refer the WLAN test report that has done by UL Verification Services INC. The report is 13U15668-4, FCC ID: BCGA1489, IC: 579C-A1489.

9. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209

IC RSS-210 Clause 2.5 (Transmitter)

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.

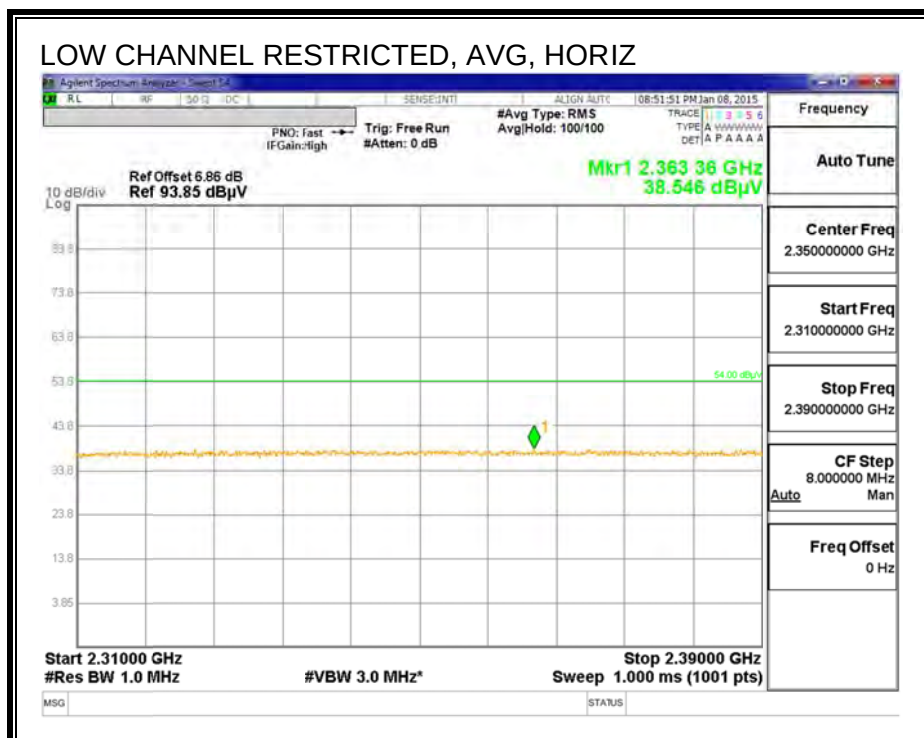
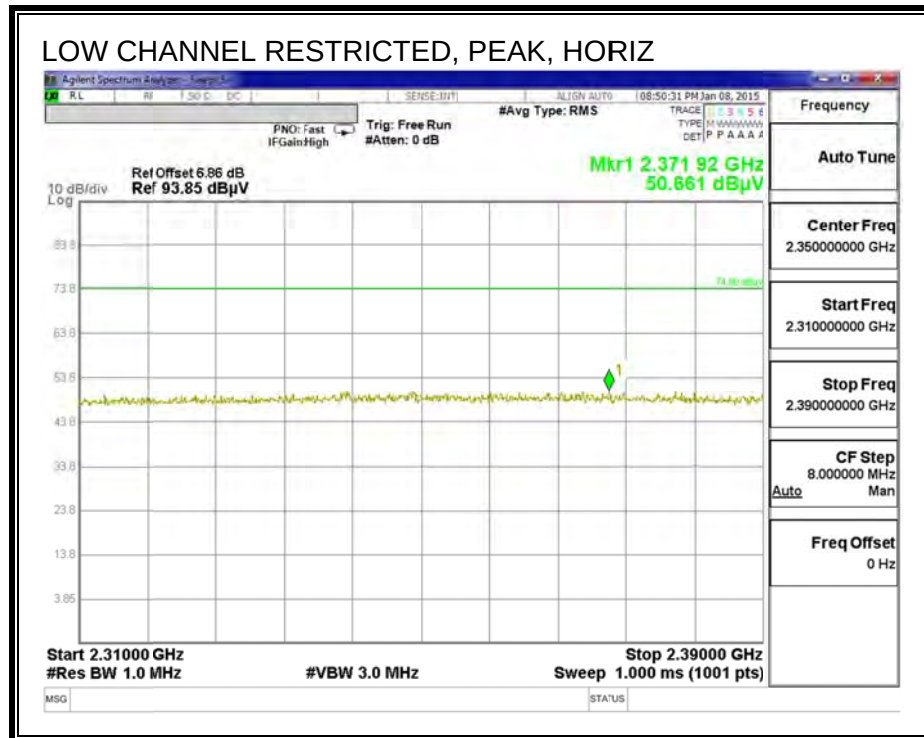
1TX mode indicates that only one antenna is transmitting.

9.1. TRANSMITTER ABOVE 1 GHz

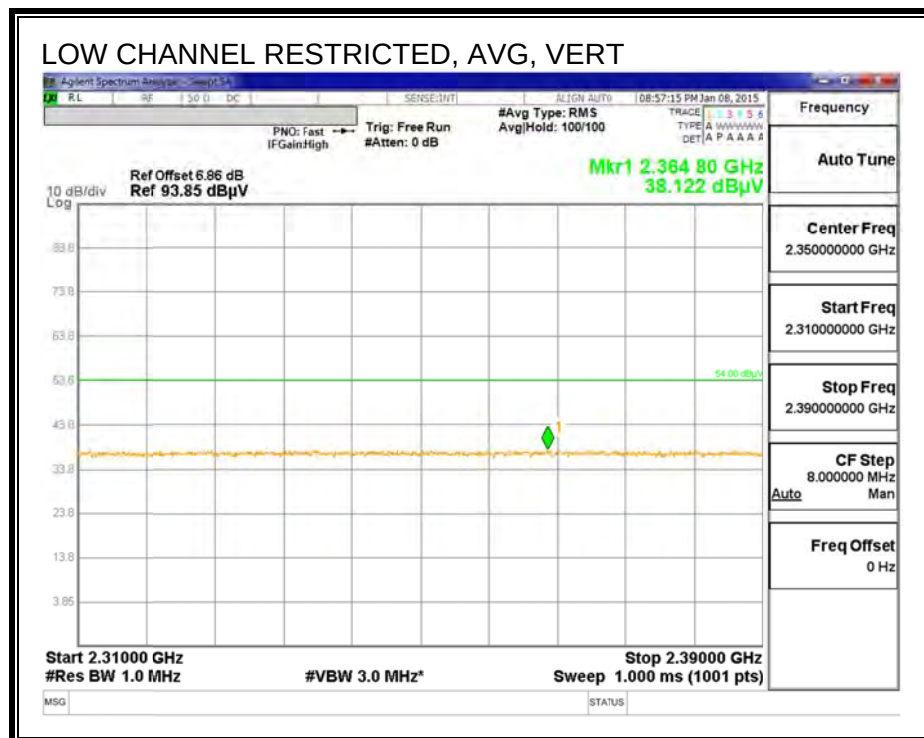
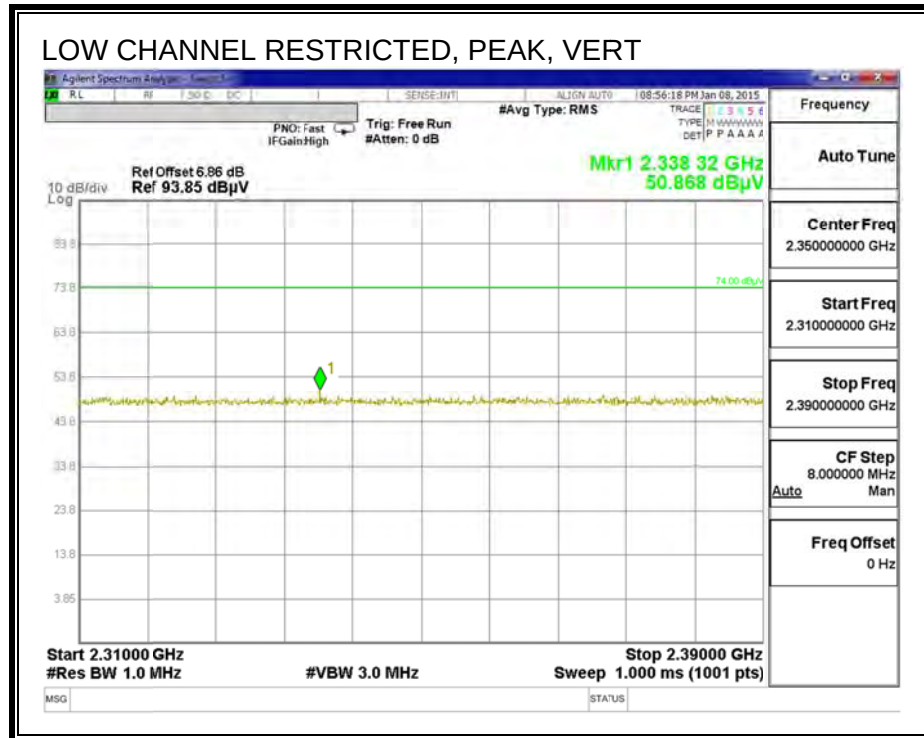
9.1.1. BASIC DATA RATE GFSK MODULATION

MODEL: A1622

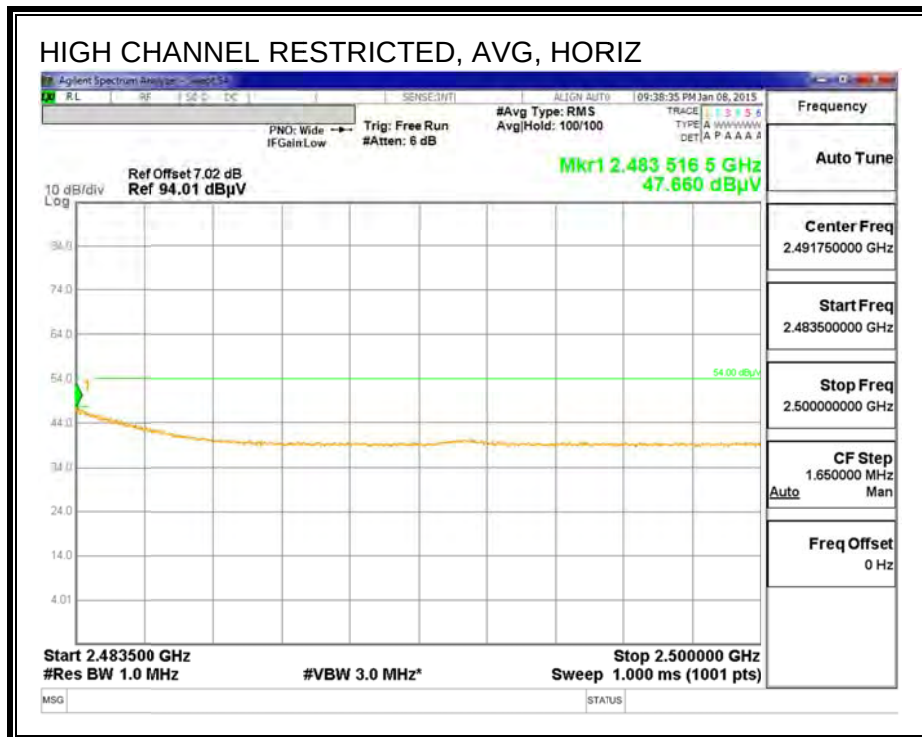
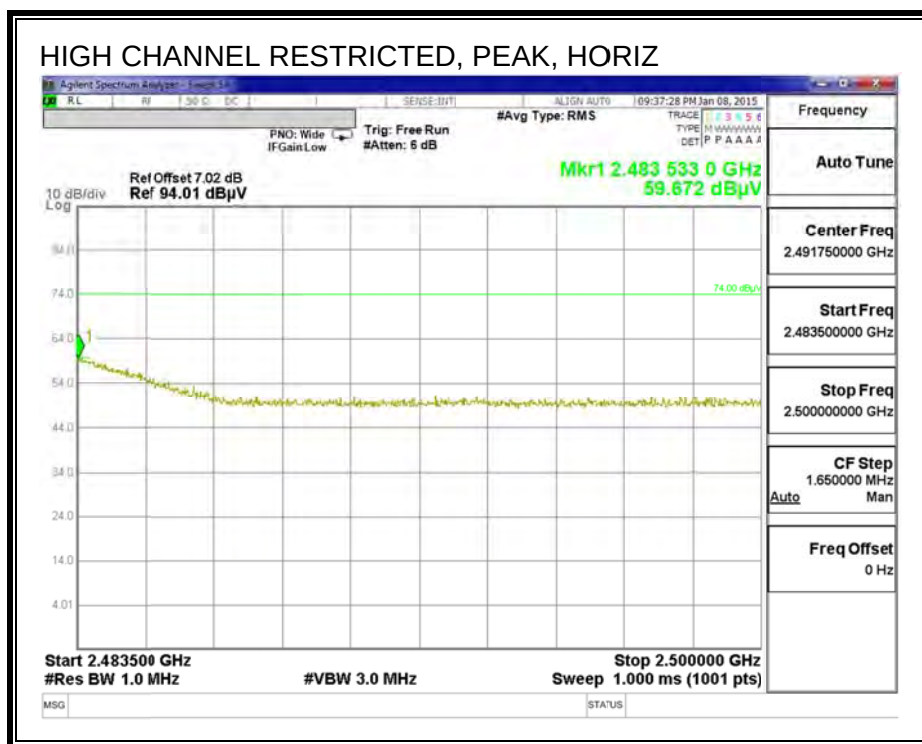
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



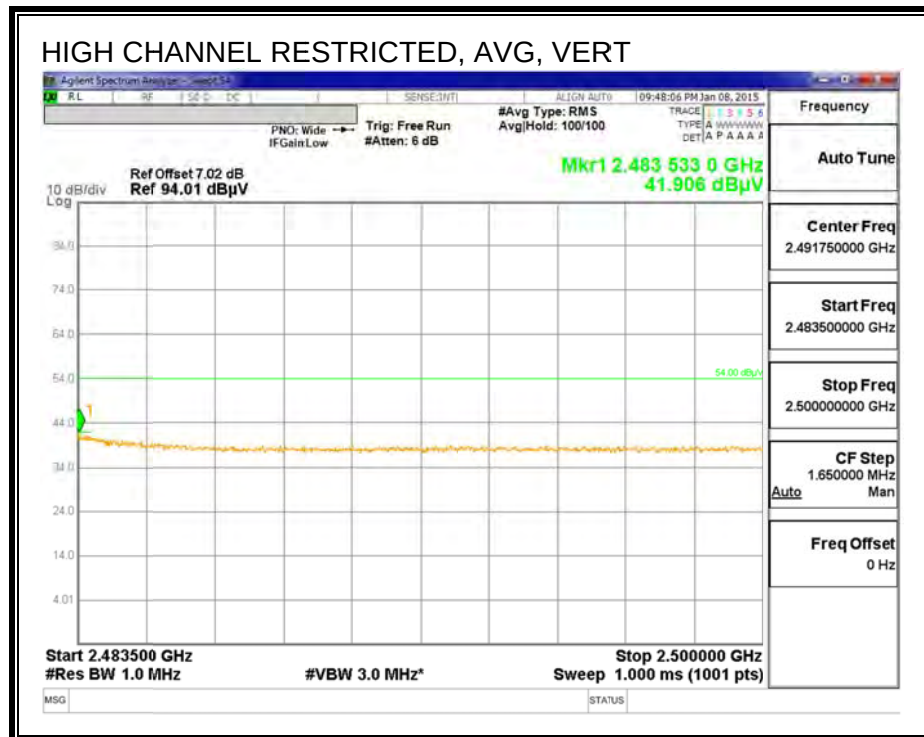
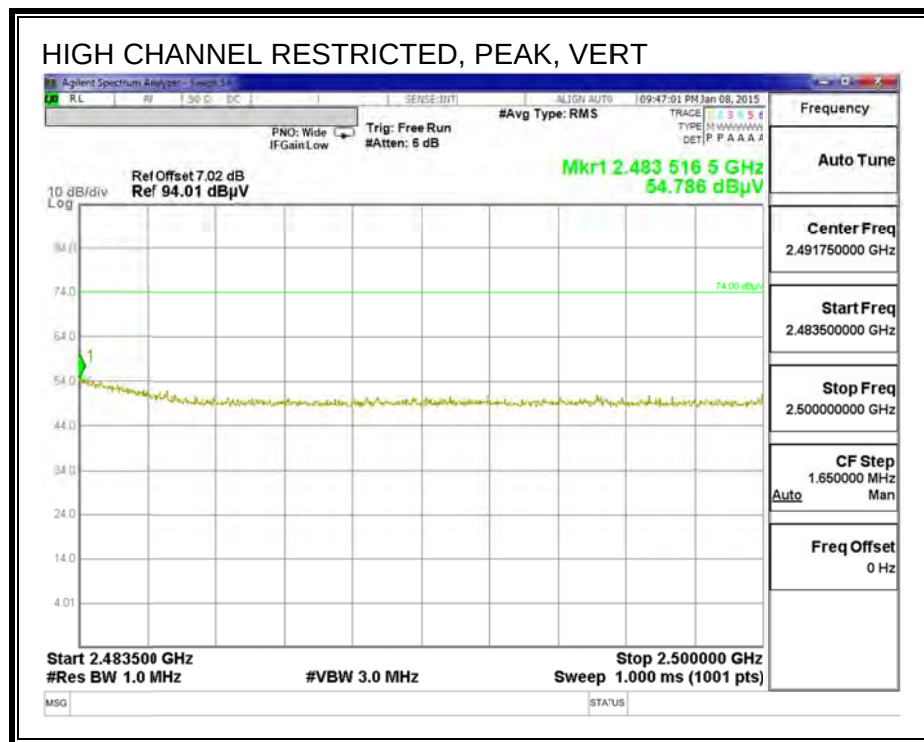
RESTRICTED BANEDGE (LOW CHANNEL, VERTICAL)



RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

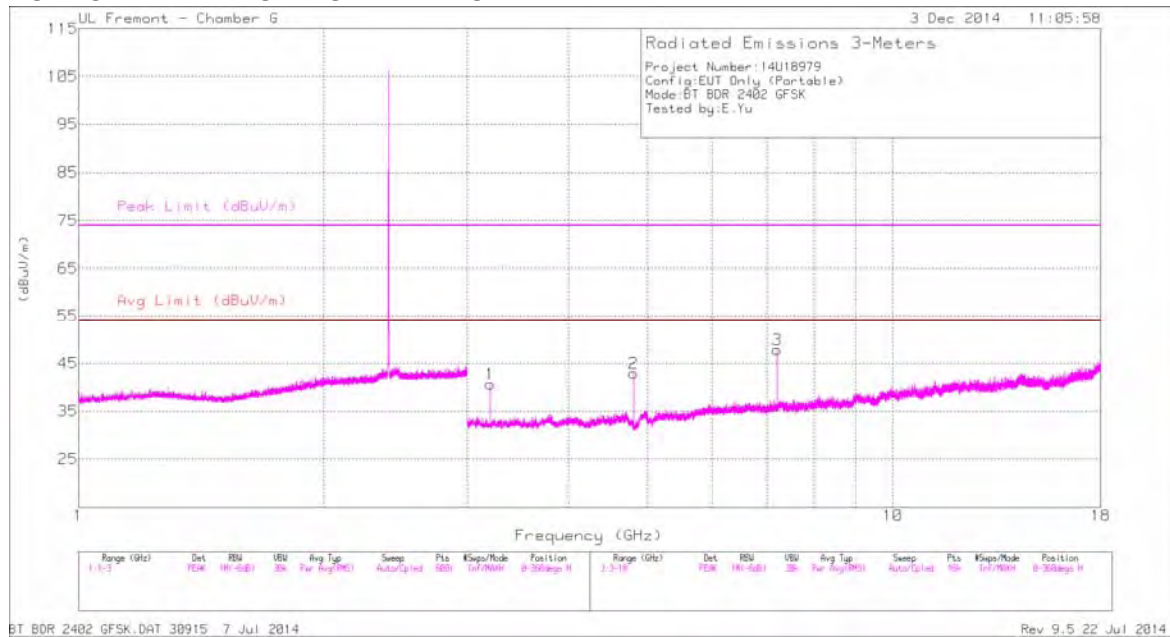


RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

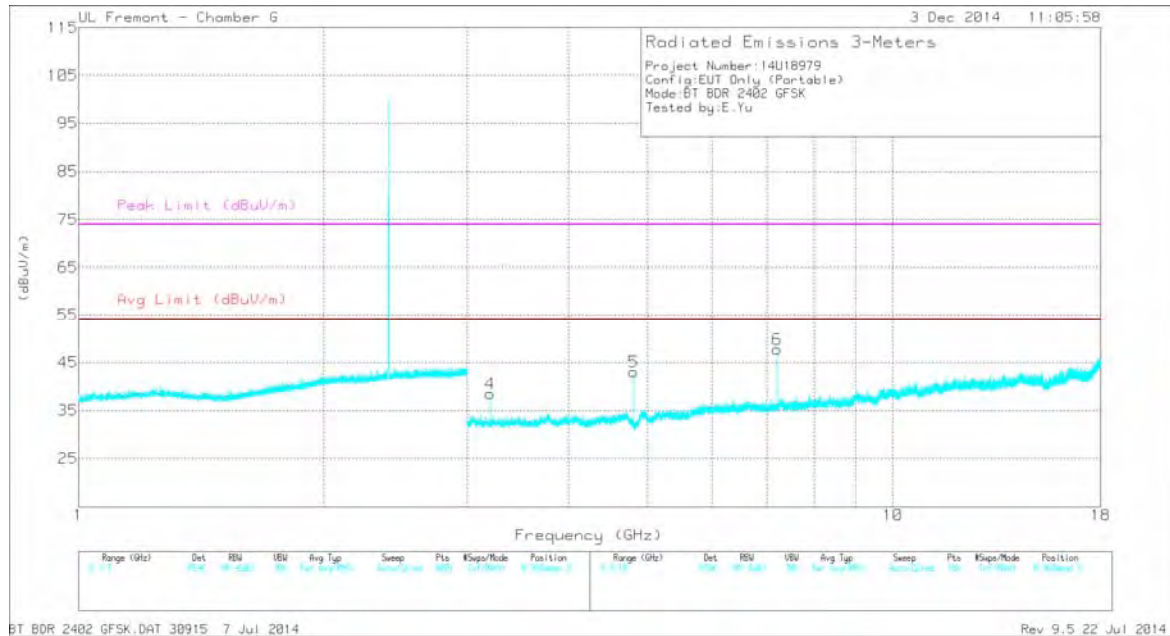


HARMONICS AND SPURIOUS EMISSIONS (LOW)

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/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	3.202	41.81	PK	32.9	-34	40.71	-	-	-	-	0-360	101	H
2	* 4.804	46.29	PK3	34.1	-33.2	47.19	-	-	74	-26.81	285	102	H
	* 4.804	40.6	VB10	34.1	-33.2	41.5	54	-12.5	-	-	285	102	H
3	7.206	43.43	PK	35.6	-31.1	47.93	-	-	-	-	0-360	201	H
4	3.202	39.63	PK	32.9	-34	38.53	-	-	-	-	0-360	201	V
5	* 4.804	47.41	PK3	34.1	-33.2	48.31	-	-	74	-25.69	284	137	V
	* 4.804	42.07	VB10	34.1	-33.2	42.97	54	-11.03	-	-	284	137	V
6	7.206	43.25	PK	35.6	-31.1	47.75	-	-	-	-	0-360	201	V

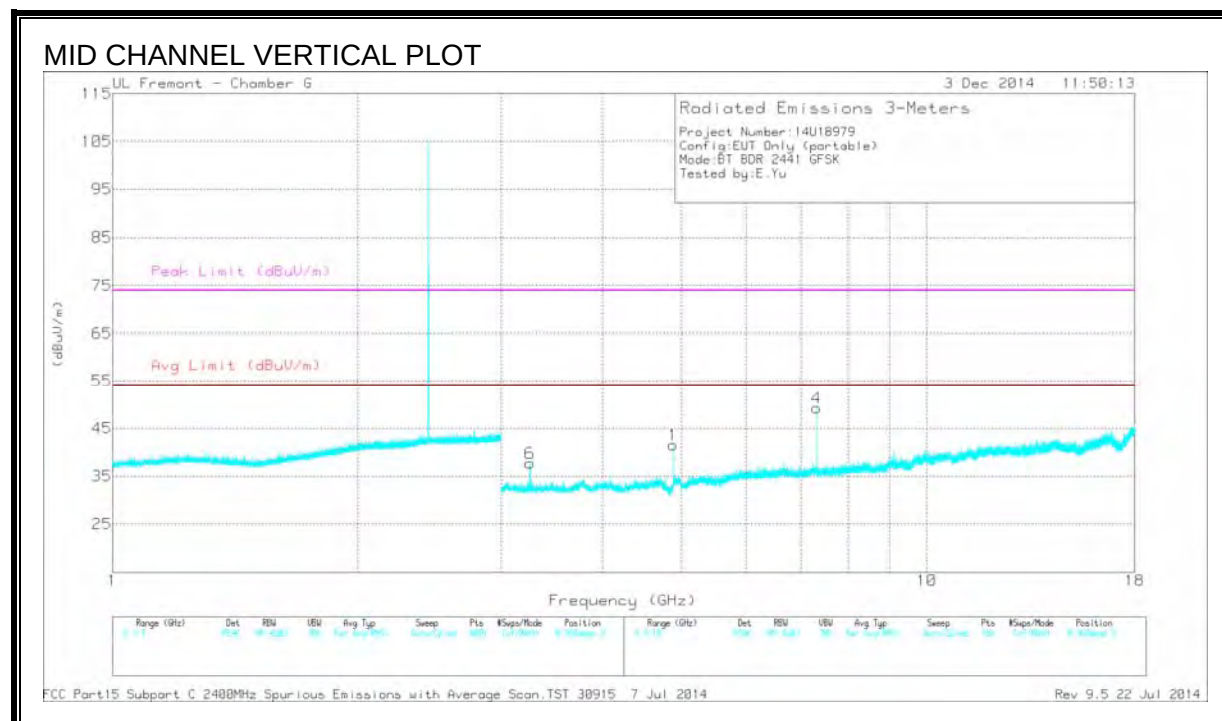
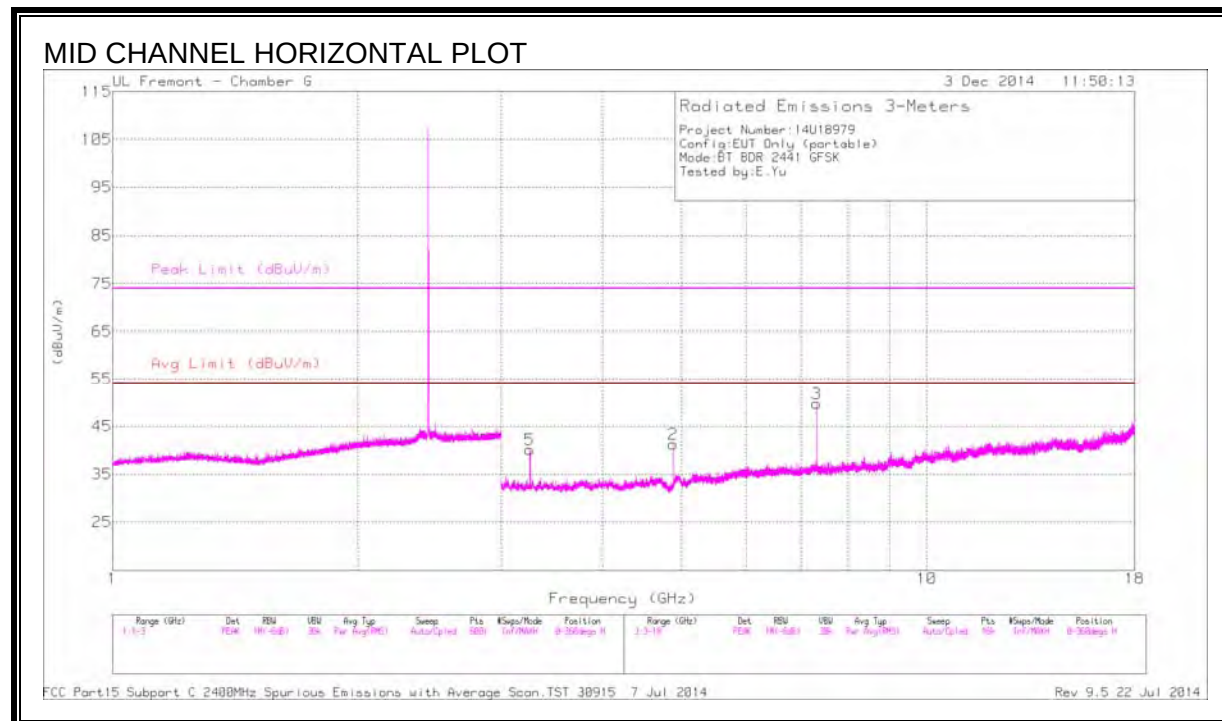
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector

PK3 - FHSS Method: Maximum Peak

VB10Hz - FHSS Method: 10Hz Video Bandwidth

HARMONICS AND SPURIOUS EMISSIONS (MID)



DATA

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/ m)	Amp/Cbl/ Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.882	46.65	PK3	34.1	-33	47.75	-	-	74	-26.25	19	200	V
	* 4.882	40.24	VB10	34.1	-33	41.34	54	-12.66	-	-	19	200	V
2	* 4.882	45.64	PK3	34.1	-33	46.74	-	-	74	-27.26	349	218	H
	* 4.882	39.61	VB10	34.1	-33	40.71	54	-13.29	-	-	349	218	H
3	* 7.322	48.9	PK3	35.6	-31.1	53.4	-	-	74	-20.6	284	184	H
	* 7.323	44.14	VB10	35.6	-31.1	48.64	54	-5.36	-	-	284	184	H
4	* 7.322	49.56	PK3	35.6	-31.1	54.06	-	-	74	-19.94	299	284	V
	* 7.323	45.33	VB10	35.6	-31.1	49.83	54	-4.17	-	-	299	284	V
5	3.254	40.79	PK	33	-33.7	40.09	-	-	-	-	0-360	101	H
6	3.255	38.42	PK	33	-33.7	37.72	-	-	-	-	0-360	201	V

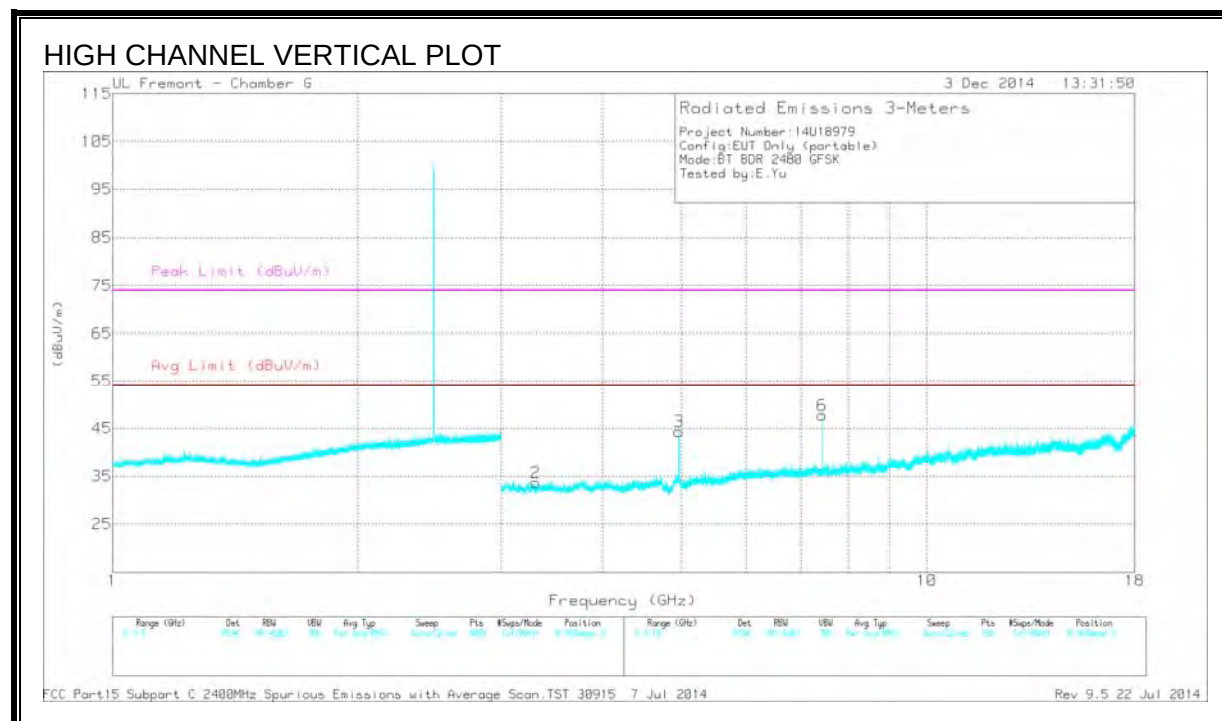
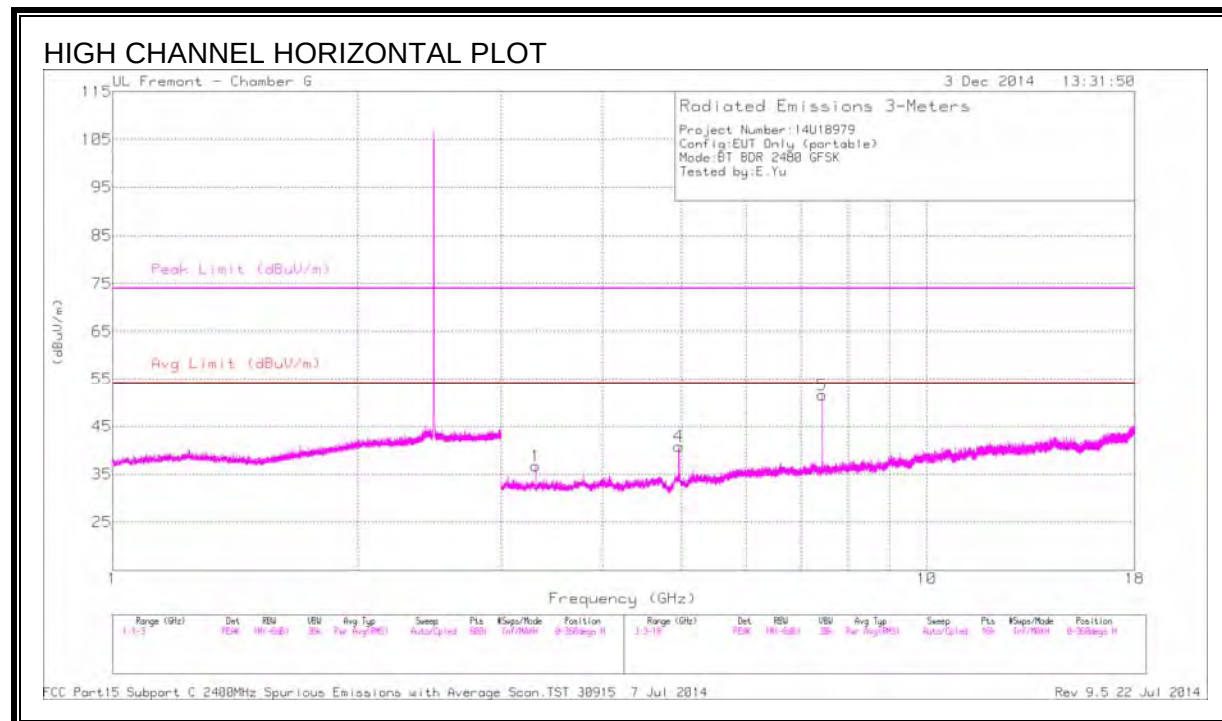
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector

PK3 - FHSS Method: Maximum Peak

VB10Hz - FHSS Method: 10Hz Video Bandwidth

HARMONICS AND SPURIOUS EMISSIONS (HIGH)



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cb/Filtr/ 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	3.307	37.49	PK	33	-33.8	36.69	-	-	-	-	0-360	101	H
2	3.308	34.52	PK	33	-33.8	33.72	-	-	-	-	0-360	101	V
3	* 4.96	48.41	PK3	34.1	-32.9	49.61	-	-	74	-24.39	37	103	V
	* 4.96	42.63	VB10	34.1	-32.9	43.83	54	-10.17	-	-	37	103	V
4	* 4.96	45.43	PK3	34.1	-32.9	46.63	-	-	74	-27.37	3	166	H
	* 4.96	38.74	VB10	34.1	-32.9	39.94	54	-14.06	-	-	3	166	H
5	* 7.44	50.68	PK3	35.6	-31.4	54.88	-	-	74	-19.12	298	105	H
	* 7.44	46.67	VB10	35.6	-31.4	50.87	54	-3.13	-	-	298	105	H
6	* 7.44	50.34	PK3	35.6	-31.4	54.54	-	-	74	-19.46	300	312	V
	* 7.44	46.26	VB10	35.6	-31.4	50.46	54	-3.54	-	-	300	312	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

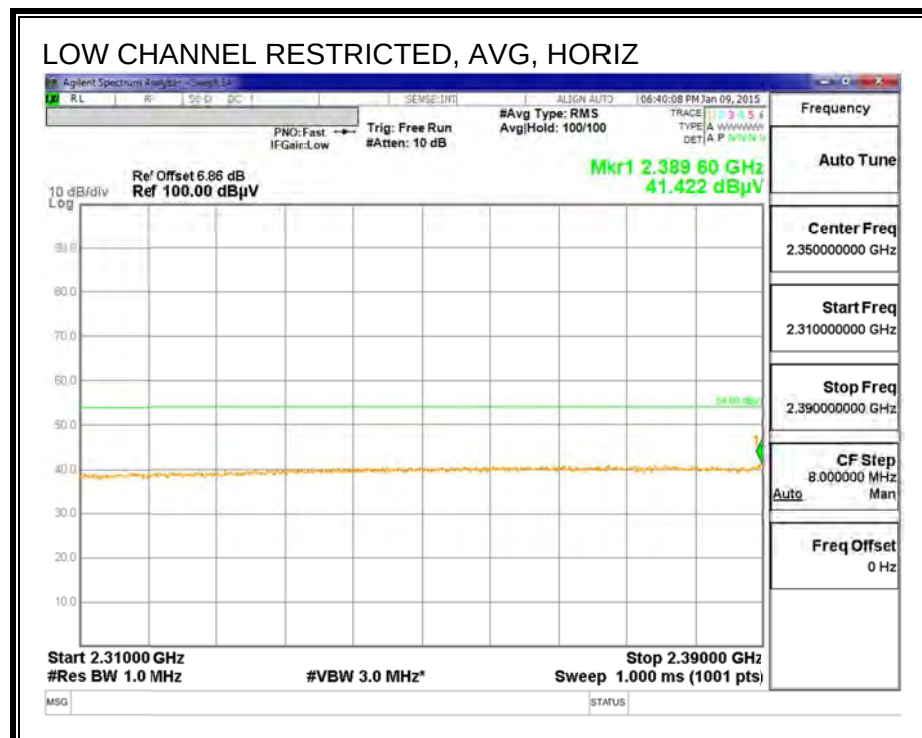
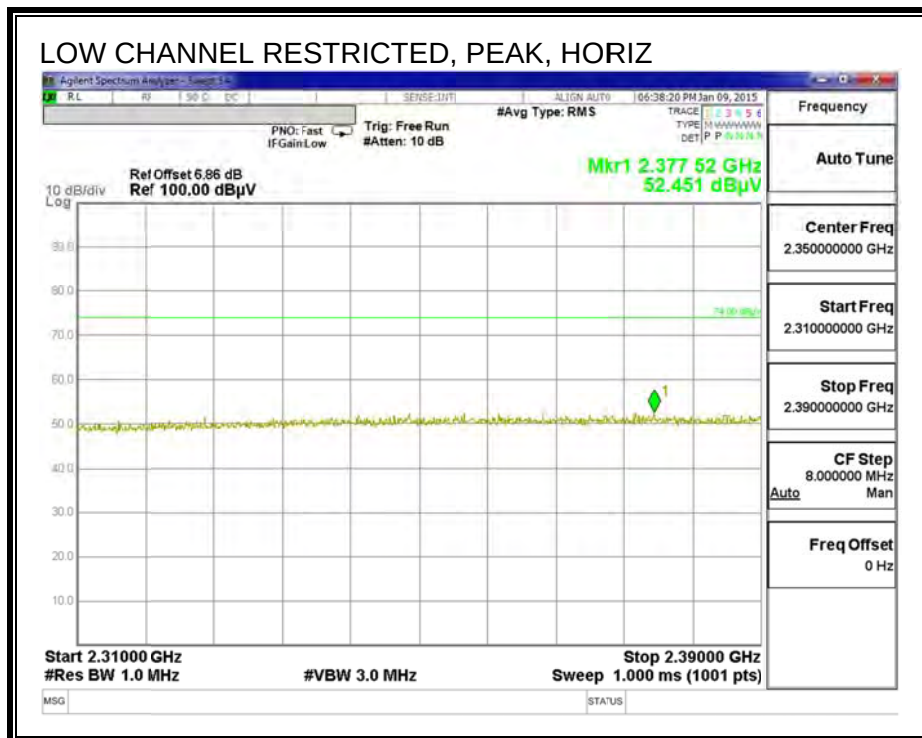
PK - Peak detector

PK3 - FHSS Method: Maximum Peak

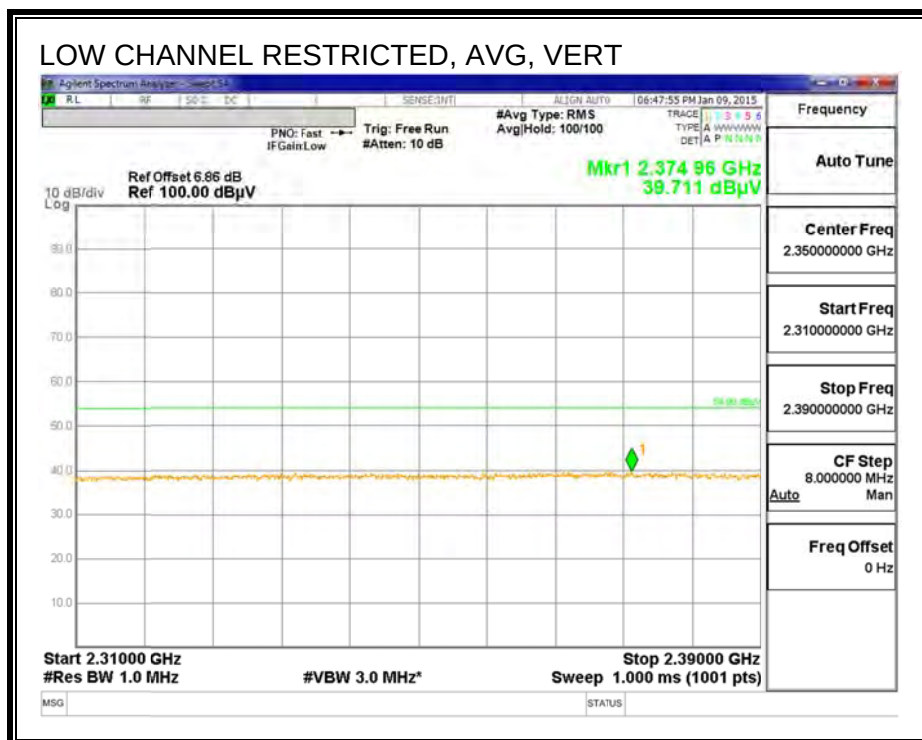
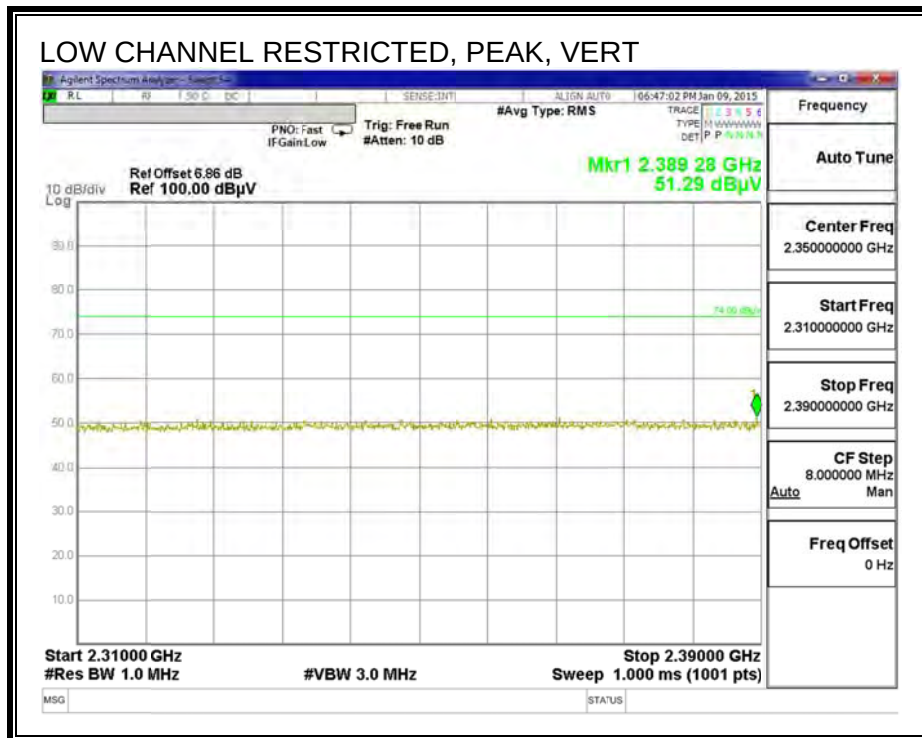
VB10Hz - FHSS Method: 10Hz Video Bandwidth

MODEL: A1623

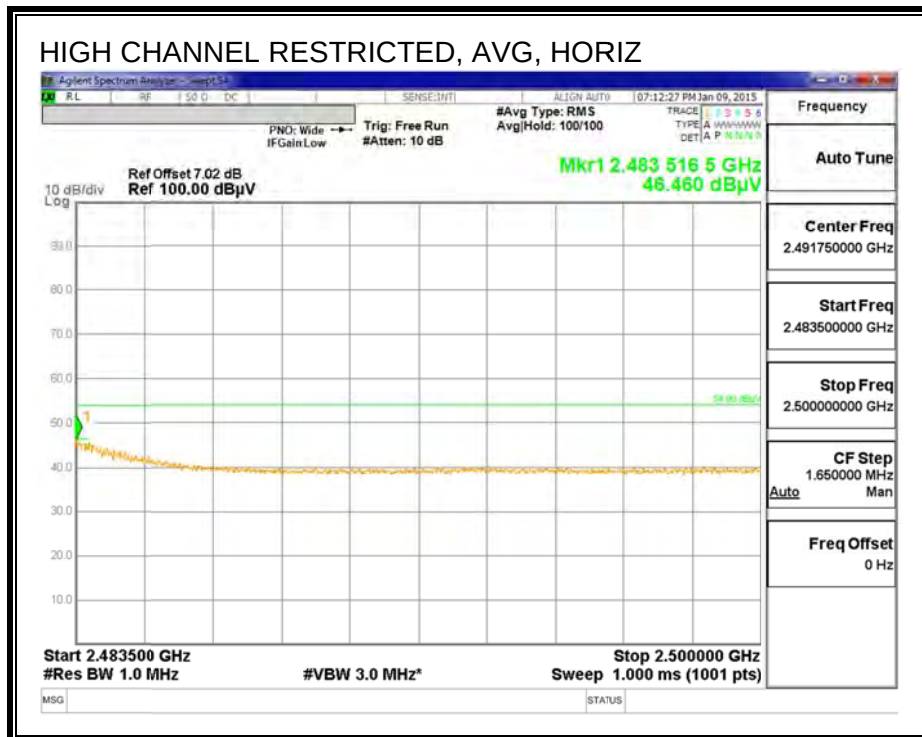
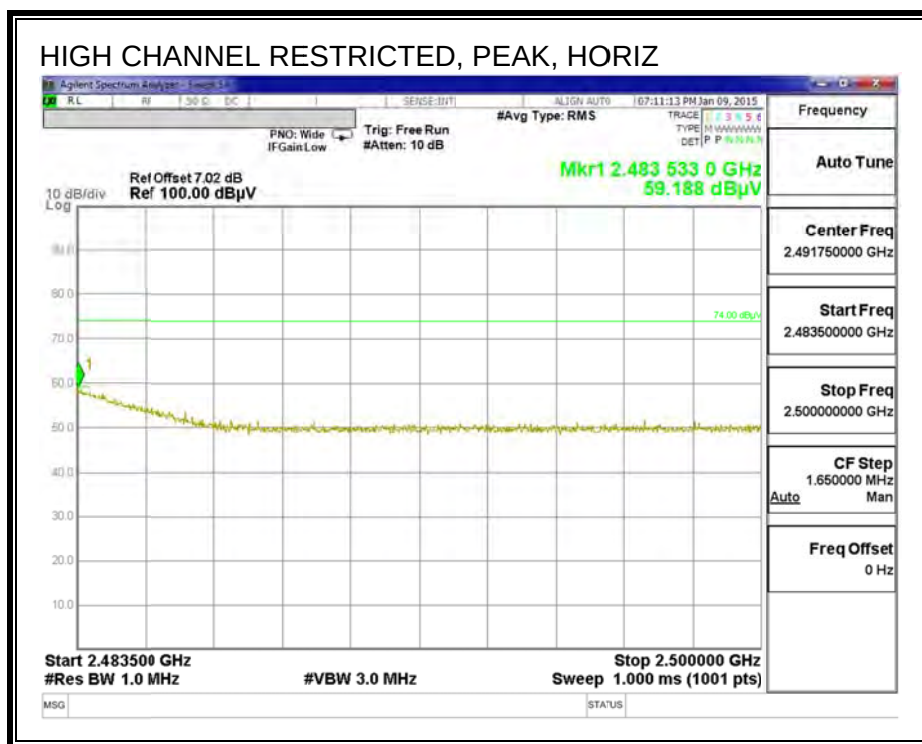
RESTRICTED BANEDGE (LOW CHANNEL, HORIZONTAL)



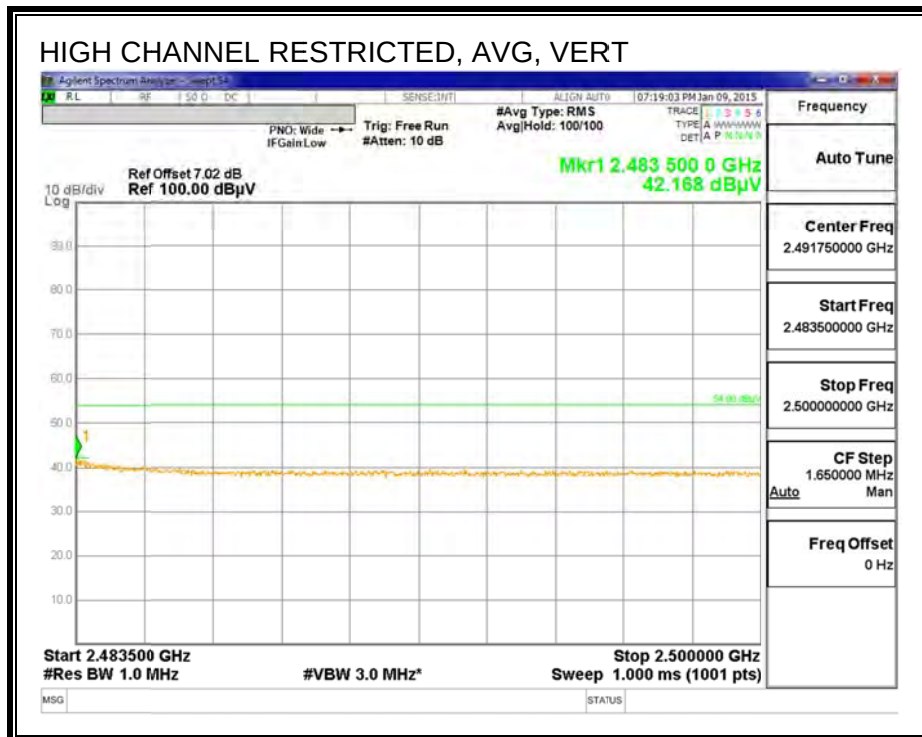
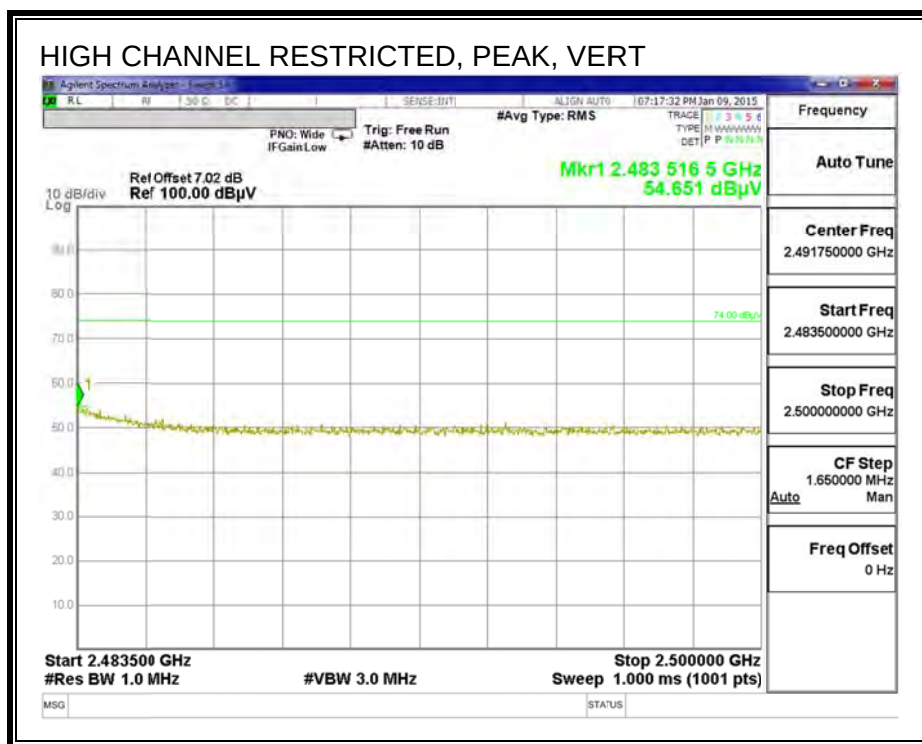
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

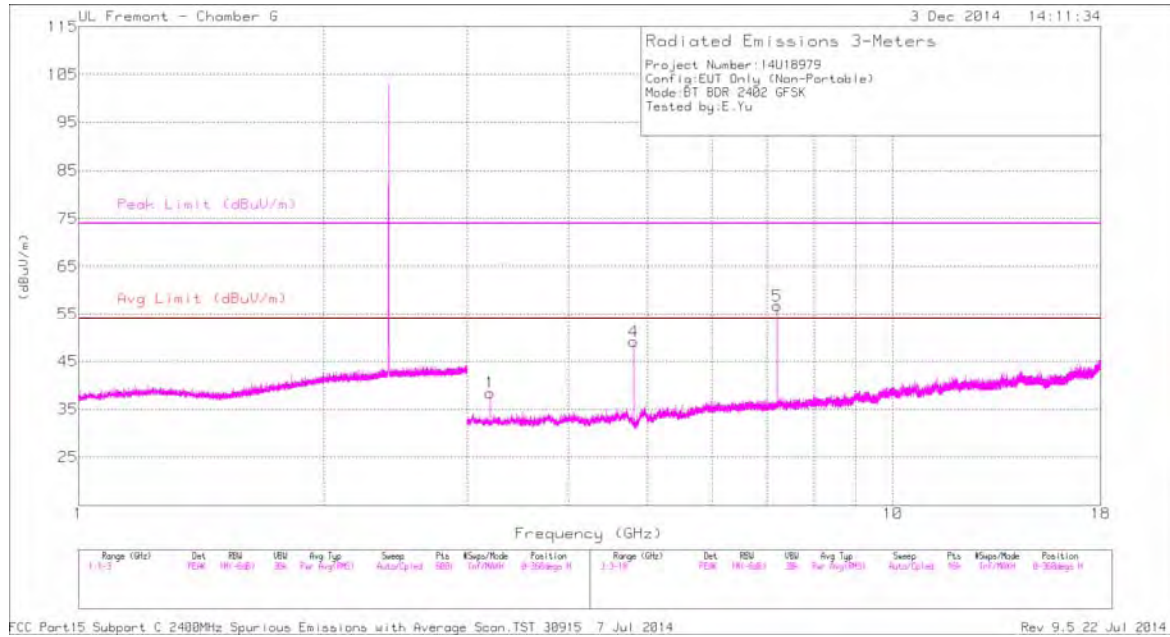


RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

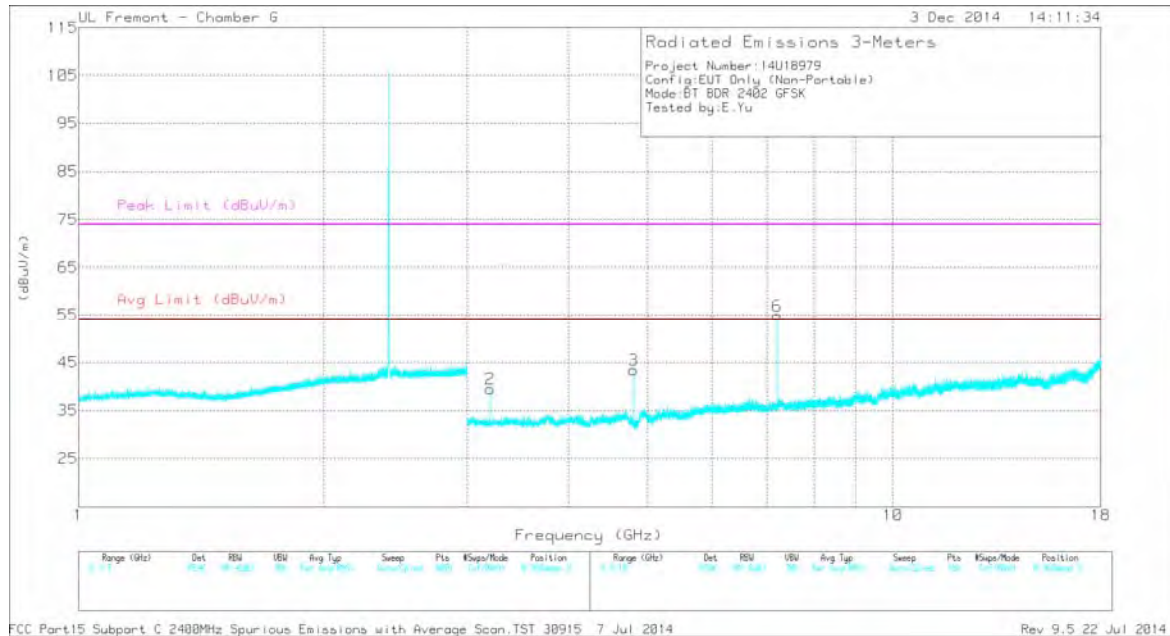


HARMONICS AND SPURIOUS EMISSIONS (LOW)

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 4.804	50.28	PK2	34.1	-33.2	51.18	-	-	74	-22.82	303	223	H
	* 4.804	47.07	MAv1	34.1	-33.2	47.97	54	-6.03	-	-	303	223	H
3	* 4.804	47.66	PK2	34.1	-33.2	48.56	-	-	74	-25.44	341	217	V
	* 4.804	42.76	MAv1	34.1	-33.2	43.66	54	-10.34	-	-	341	217	V
5	7.206	56.05	PK2	35.6	-31.1	60.55	-	-	74	-13.45	322	163	H
	7.206	53.01	MAv1	35.6	-31.1	40.55	54	-13.45	-	-	322	163	H
6	7.206	52.53	PK2	35.6	-31.1	57.03	-	-	74	-16.97	166	230	V
	7.206	48.85	MAv1	35.6	-31.1	37.03	54	-16.97	-	-	166	230	V
1	3.202	39.53	PK	32.9	-34	38.43	-	-	-	-	0-360	201	H
2	3.202	40.61	PK	32.9	-34	39.51	-	-	-	-	0-360	101	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

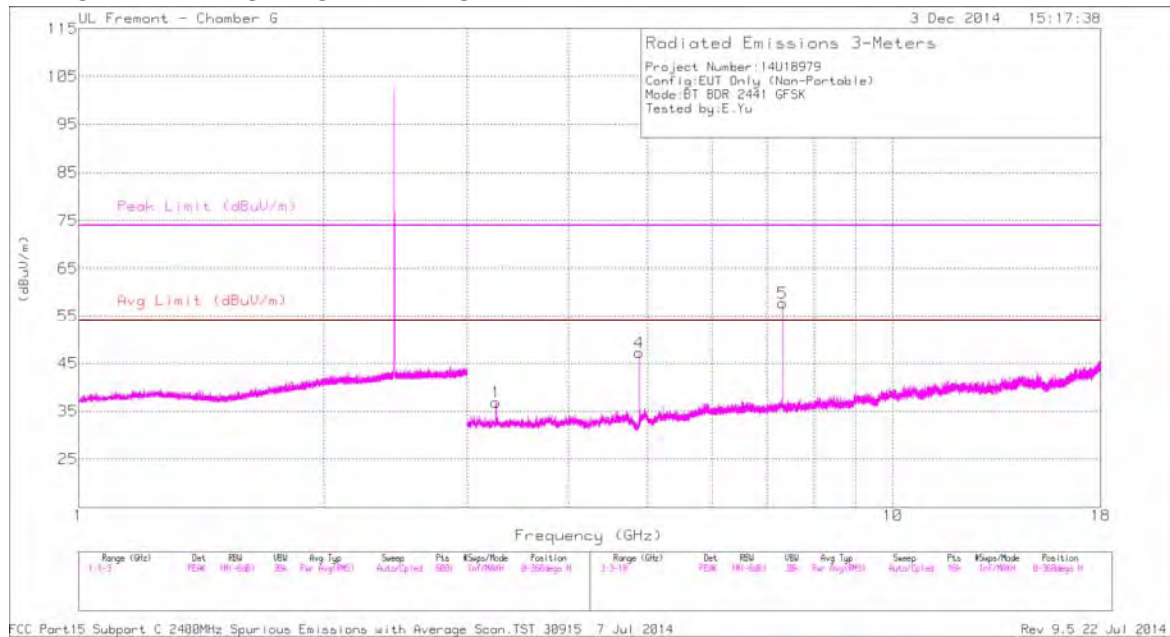
PK - Peak detector

PK3 - FHSS Method: Maximum Peak

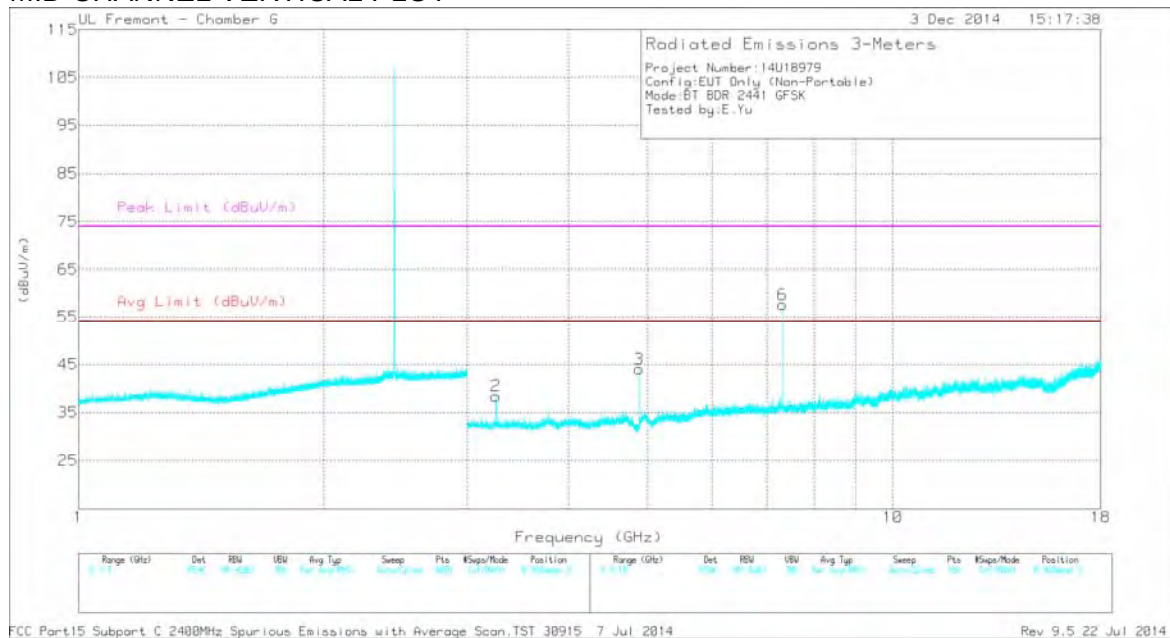
VB10Hz - FHSS Method: 10Hz Video Bandwidth

HARMONICS AND SPURIOUS EMISSIONS (MID)

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



DATA

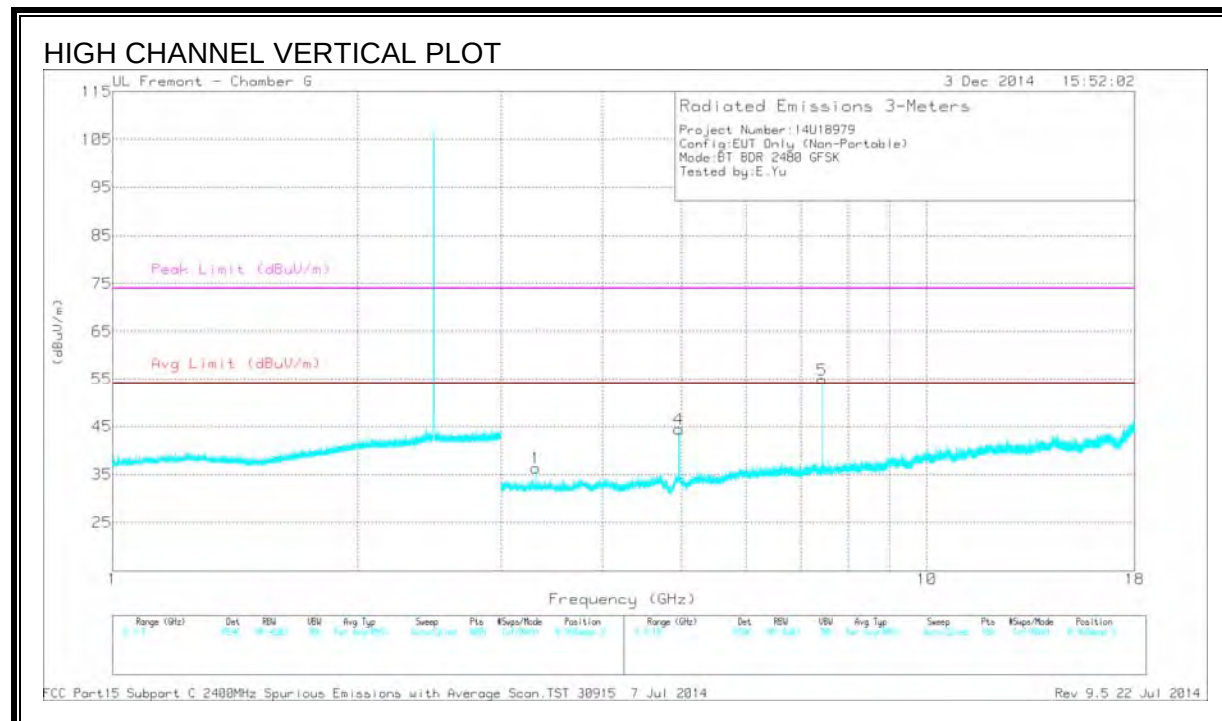
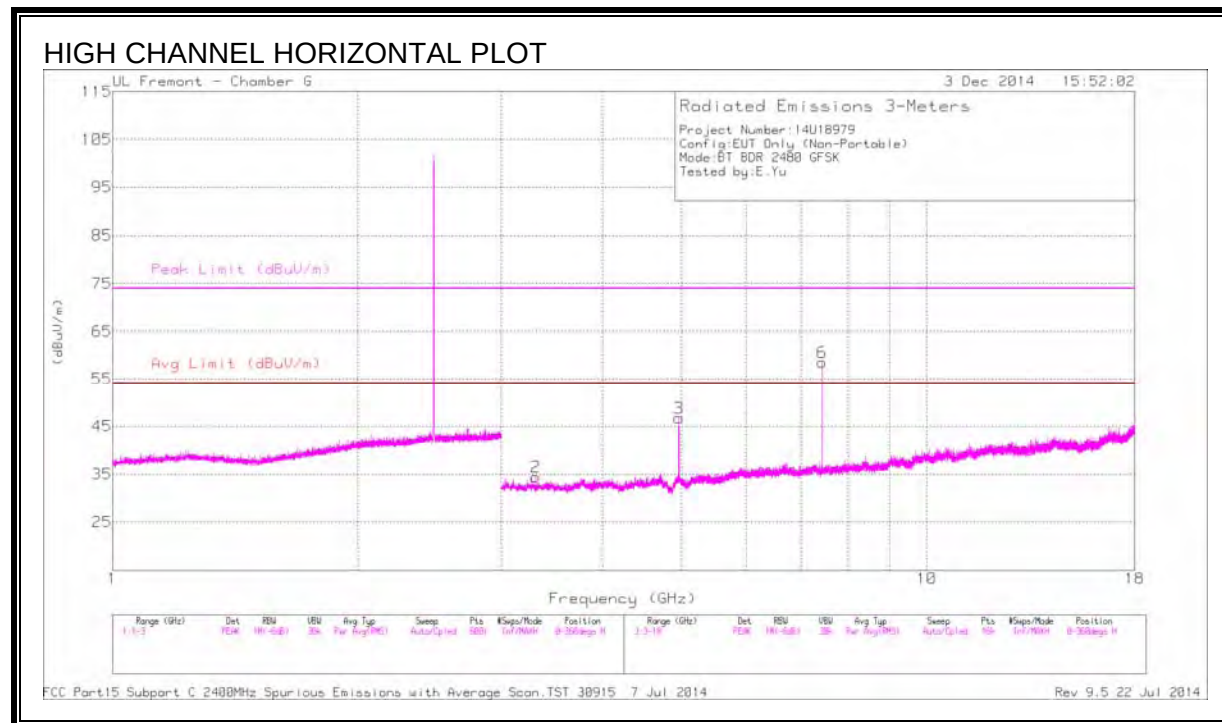
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 4.882	49.05	PK2	34.1	-33	50.15	-	-	74	-23.85	303	175	H
	* 4.882	45.13	MAv1	34.1	-33	46.23	54	-7.77	-	-	303	175	H
5	* 7.323	55.02	PK2	35.6	-31.1	59.52	-	-	74	-14.48	321	174	H
	* 7.323	51.94	MAv1	35.6	-31.1	39.52	54	-14.48	-	-	321	174	H
3	* 4.882	47.28	PK2	34.1	-33	48.38	-	-	74	-25.62	209	322	V
	* 4.882	42.6	MAv1	34.1	-33	43.7	54	-10.3	-	-	209	322	V
6	* 7.323	55.91	PK2	35.6	-31.1	60.41	-	-	74	-13.59	248	150	V
	* 7.323	52.93	MAv1	35.6	-31.1	40.41	54	-13.59	-	-	248	150	V
1	3.255	37.6	PK	33	-33.7	36.9	-	-	-	-	0-360	201	H
2	3.255	39.13	PK	33	-33.7	38.43	-	-	-	-	0-360	201	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK3 - FHSS Method: Maximum Peak

VB10Hz - FHSS Method: 10Hz Video Bandwidth

HARMONICS AND SPURIOUS EMISSIONS (HIGH)



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Filt/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	* 4.96	49.49	PK2	34.1	-32.9	50.69	-	-	74	-23.31	281	186	H
	* 4.96	45.14	MAv1	34.1	-32.9	46.34	54	-7.66	-	-	281	186	H
6	* 7.439	57.12	PK2	35.6	-31.4	61.32	-	-	74	-12.68	355	217	H
	* 7.44	54.51	MAv1	35.6	-31.4	41.32	54	-12.68	-	-	355	217	H
4	* 4.96	48.66	PK2	34.1	-32.9	49.86	-	-	74	-24.14	12	103	V
	* 4.96	43.41	MAv1	34.1	-32.9	44.61	54	-9.39	-	-	12	103	V
5	* 7.323	55.91	PK2	35.6	-31.1	60.41	-	-	74	-13.59	248	150	V
	* 7.323	52.93	MAv1	35.6	-31.1	40.41	54	-13.59	-	-	248	150	V
2	3.307	35.22	PK	33	-33.8	34.42	-	-	-	-	0-360	201	H
1	3.307	37.1	PK	33	-33.8	36.3	-	-	-	-	0-360	201	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

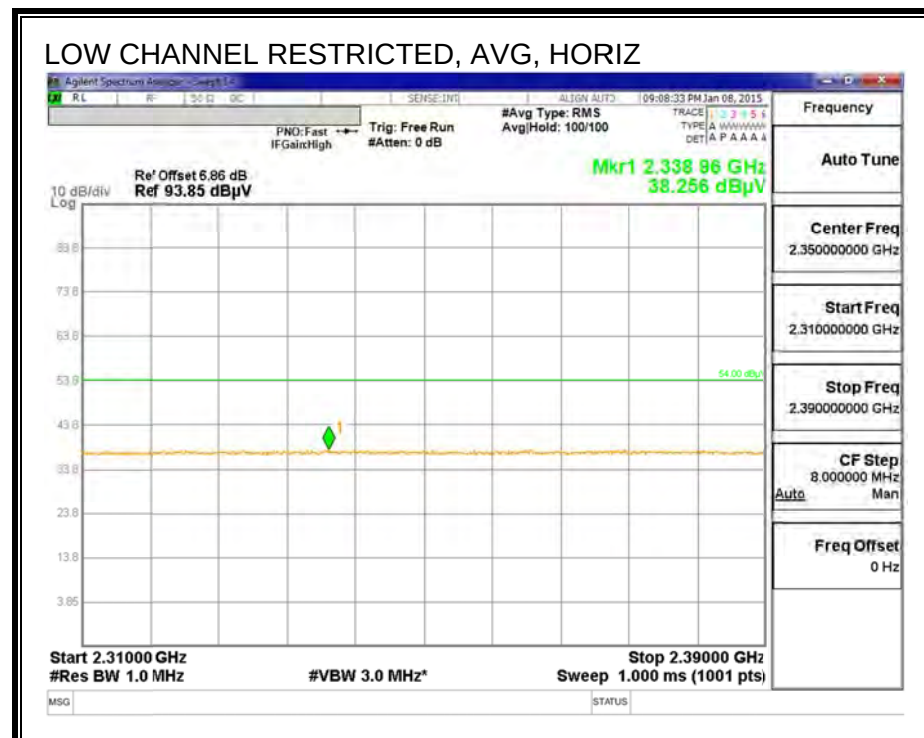
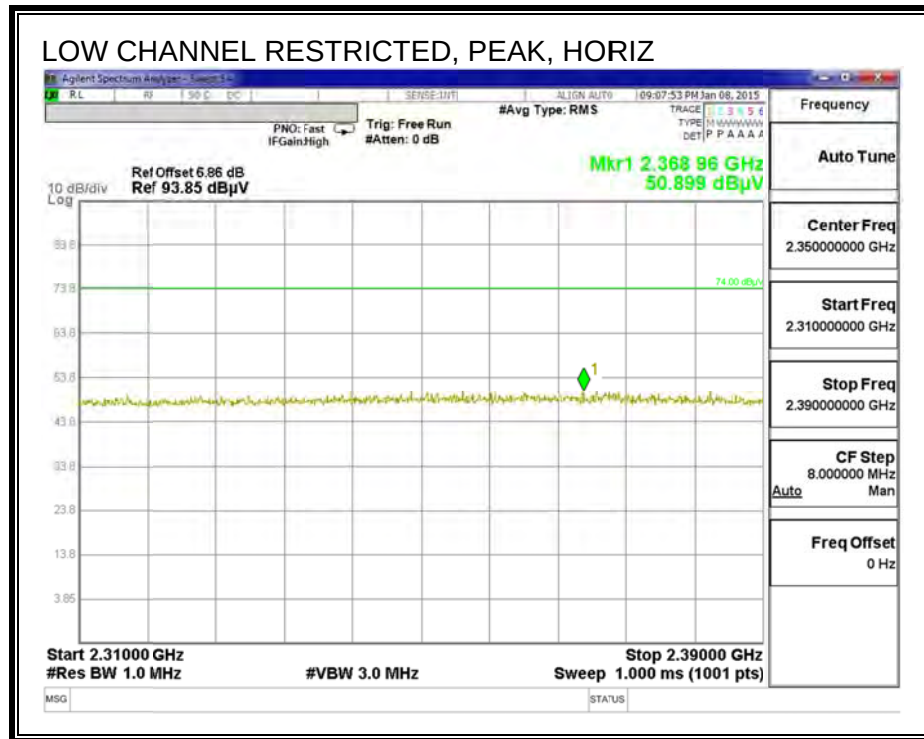
PK3 - FHSS Method: Maximum Peak

VB10Hz - FHSS Method: 10Hz Video Bandwidth

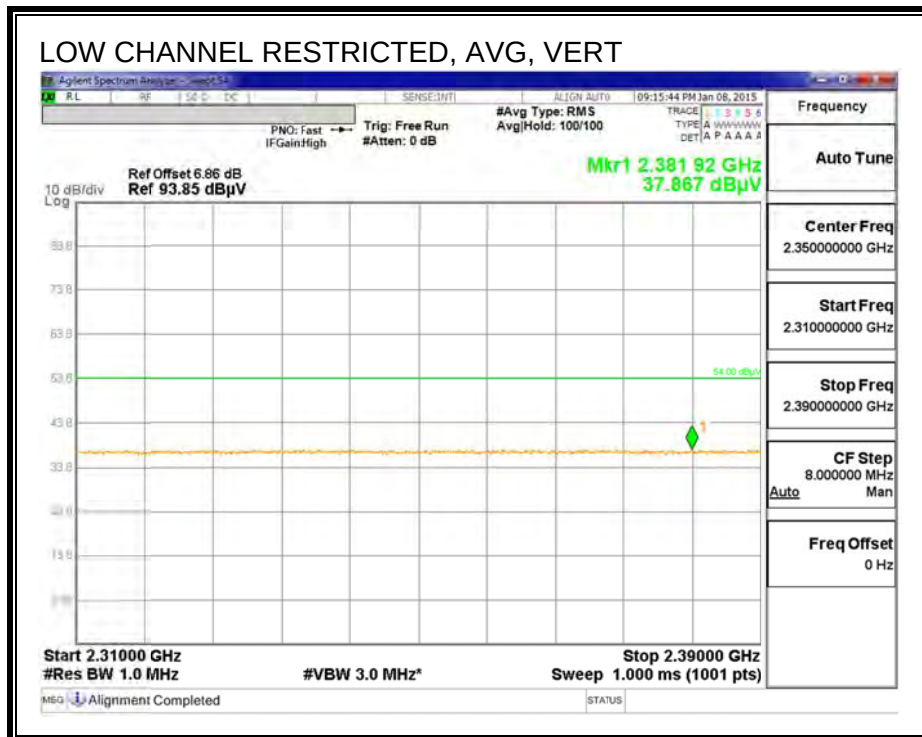
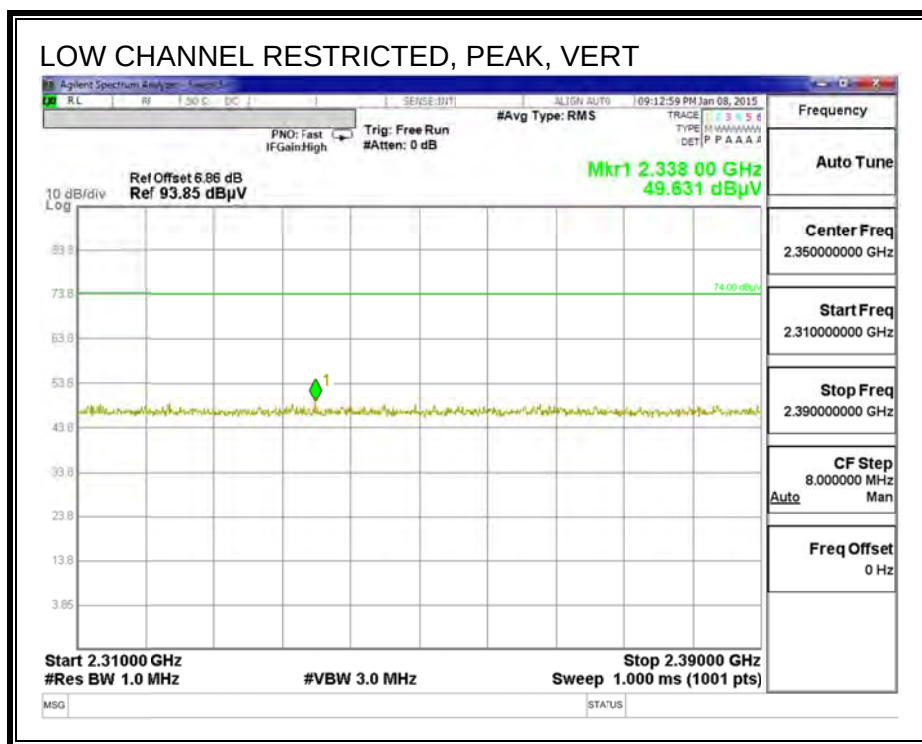
9.1.2. ENHANCED DATA RATE 8PSK MODULATION

MODEL: A1622

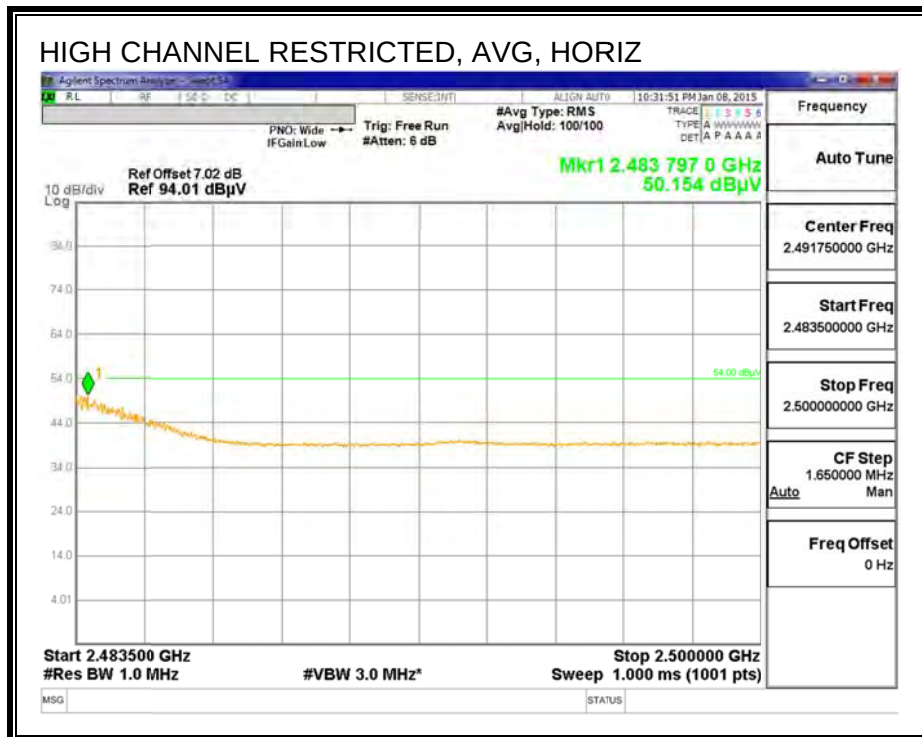
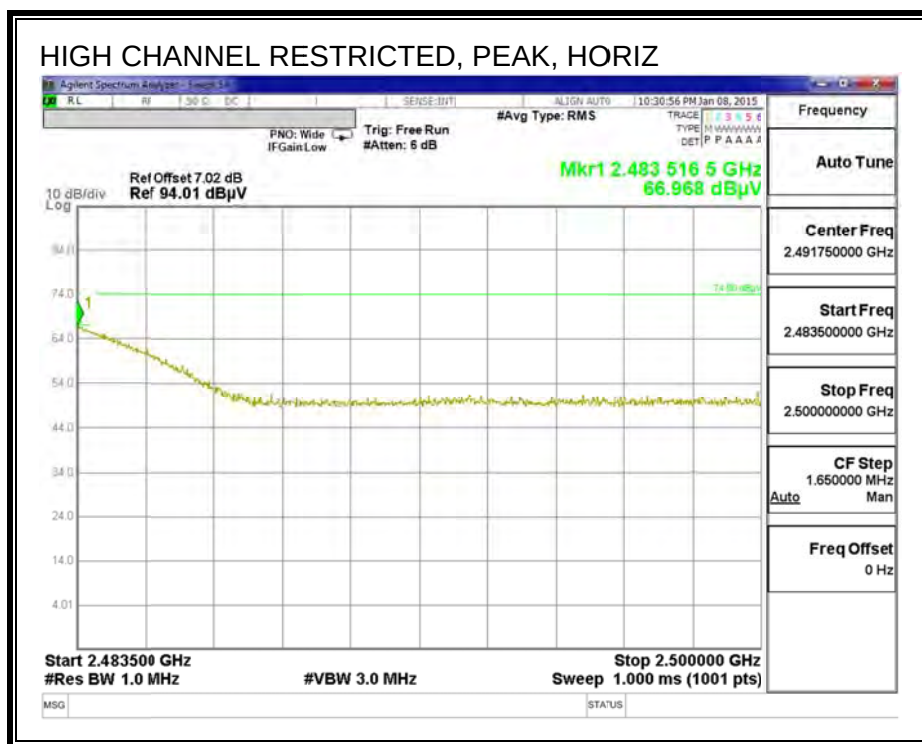
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



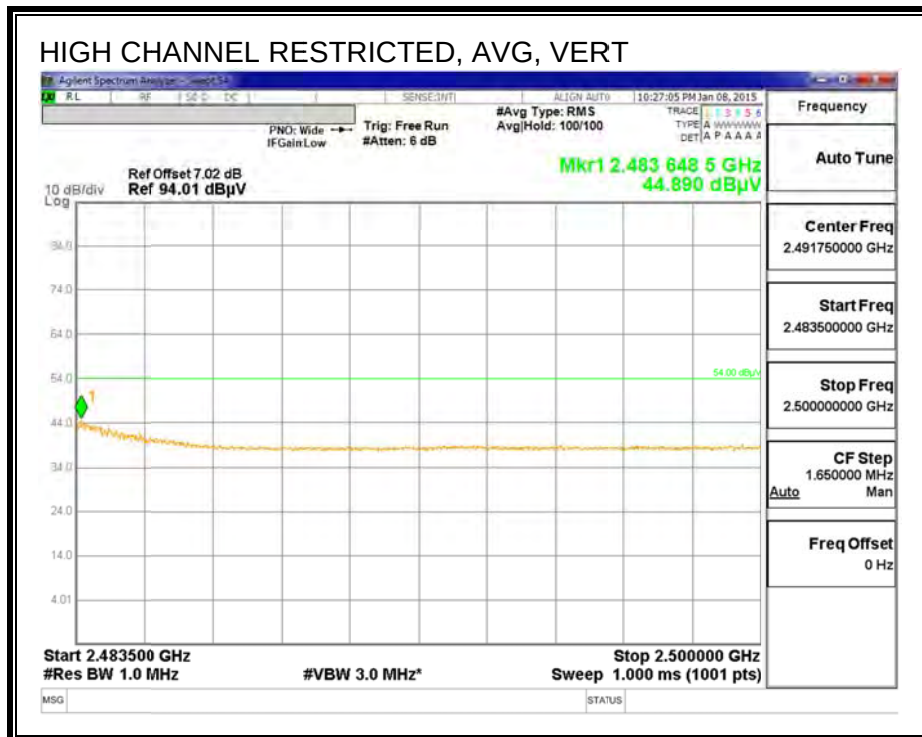
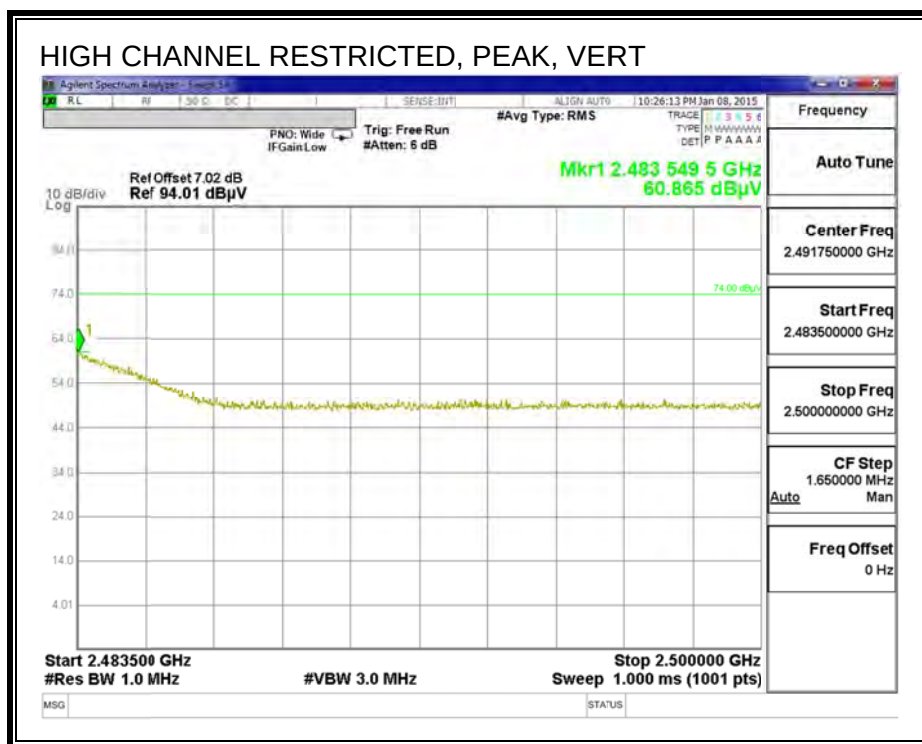
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

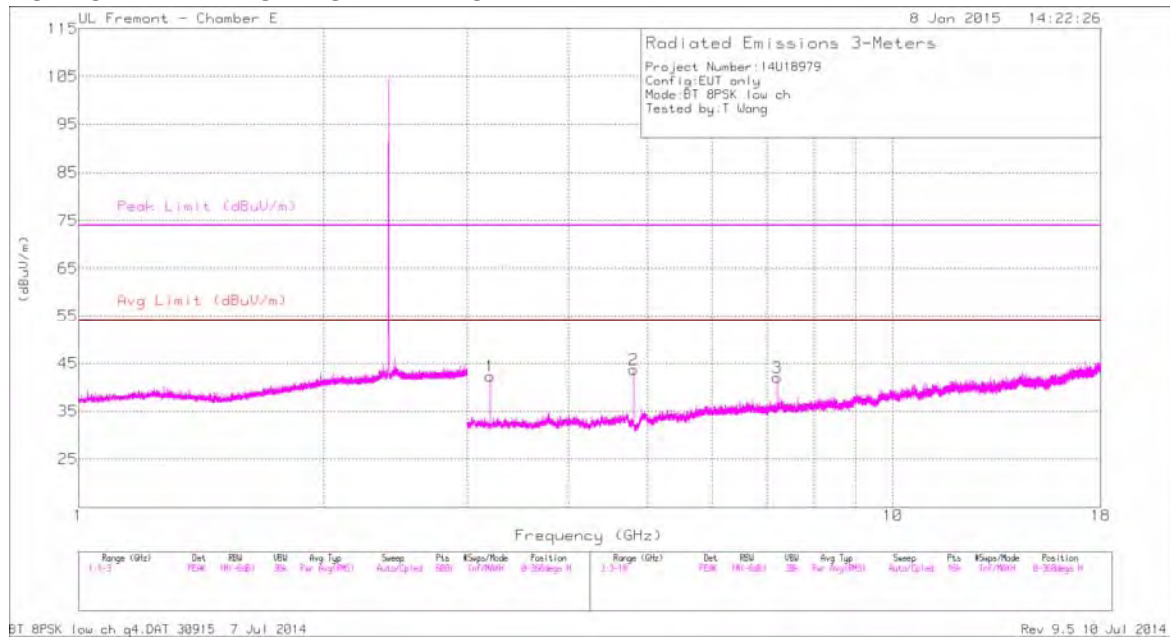


RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

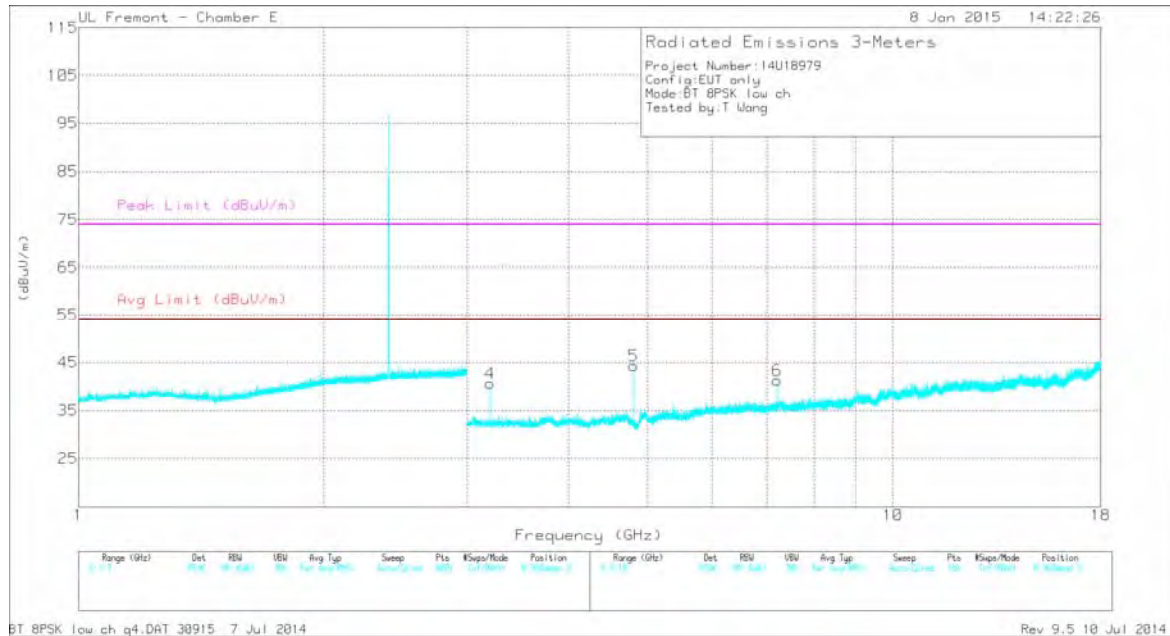


HARMONICS AND SPURIOUS EMISSIONS (LOW)

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



DATA

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.202	43.45	PK	32.9	-34	42.35	-	-	-	-	0-360	101	H
2	* 4.804	49.13	PK3	34.1	-33.2	50.03	-	-	74	-23.97	130	167	H
	* 4.804	42.74	VB10	34.1	-33.2	43.64	54	-10.36	-	-	130	167	H
3	7.206	37.51	PK	35.6	-31.1	42.01	-	-	-	-	0-360	101	H
4	3.202	41.76	PK	32.9	-34	40.66	-	-	-	-	0-360	201	V
5	* 4.804	49.93	PK3	34.1	-33.2	50.83	-	-	74	-23.17	80	176	V
	* 4.804	43.48	VB10	34.1	-33.2	44.38	54	-9.62	-	-	80	176	V
6	7.206	36.81	PK	35.6	-31.1	41.31	-	-	-	-	0-360	201	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

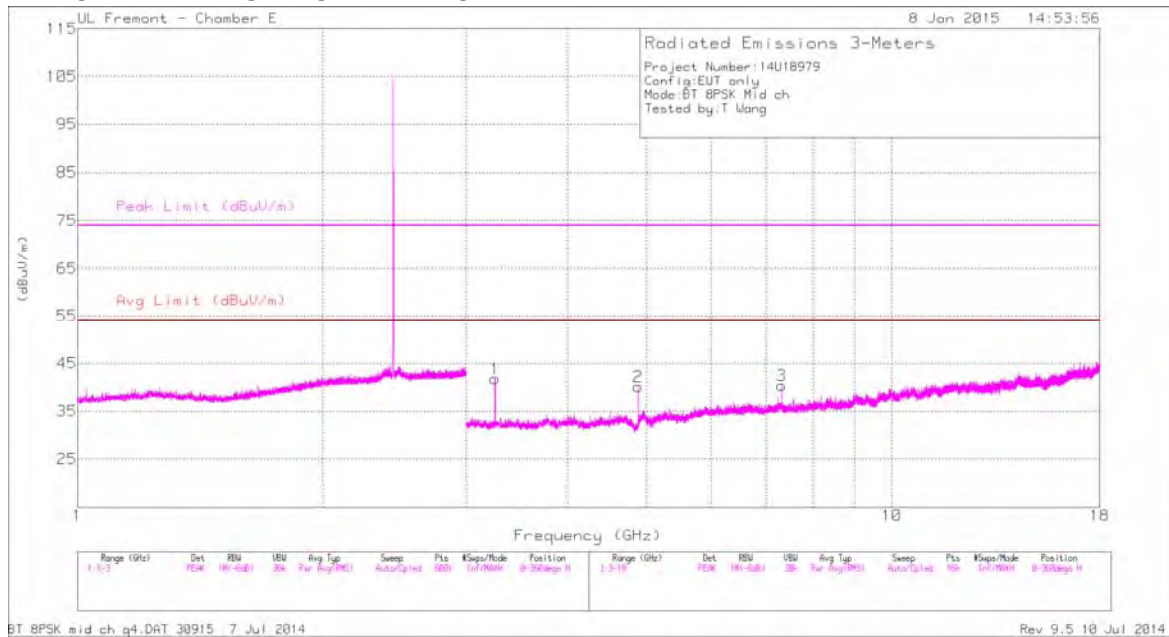
PK - Peak detector

PK3 - FHSS Method: Maximum Peak

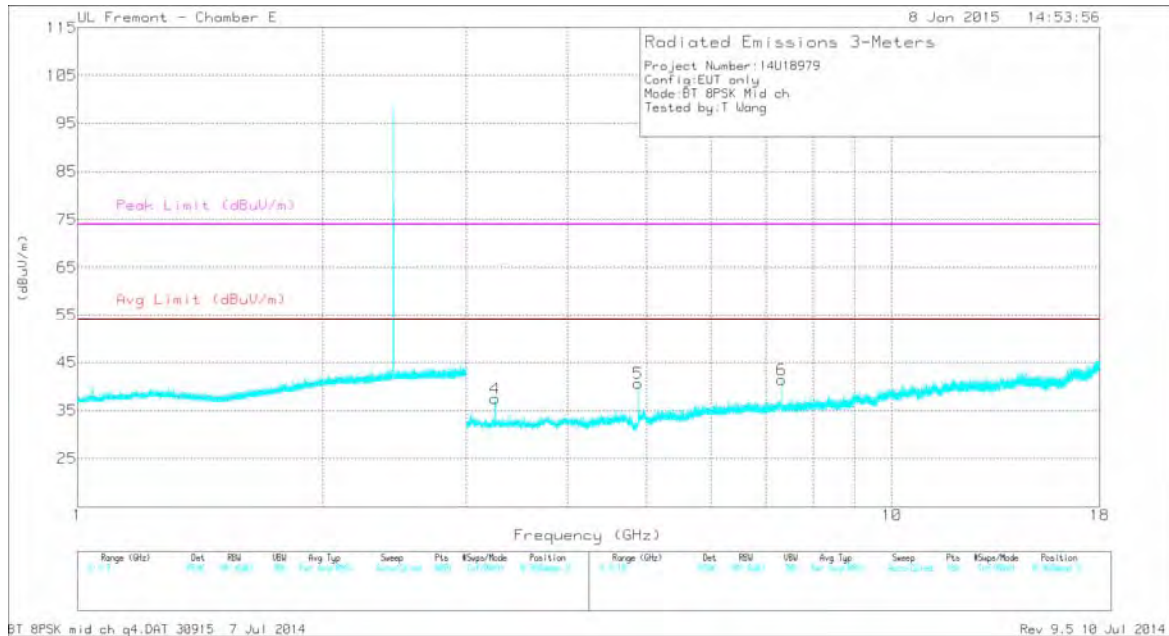
VB10Hz - FHSS Method: 10Hz Video Bandwidth

HARMONICS AND SPURIOUS EMISSIONS (MID)

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



DATA

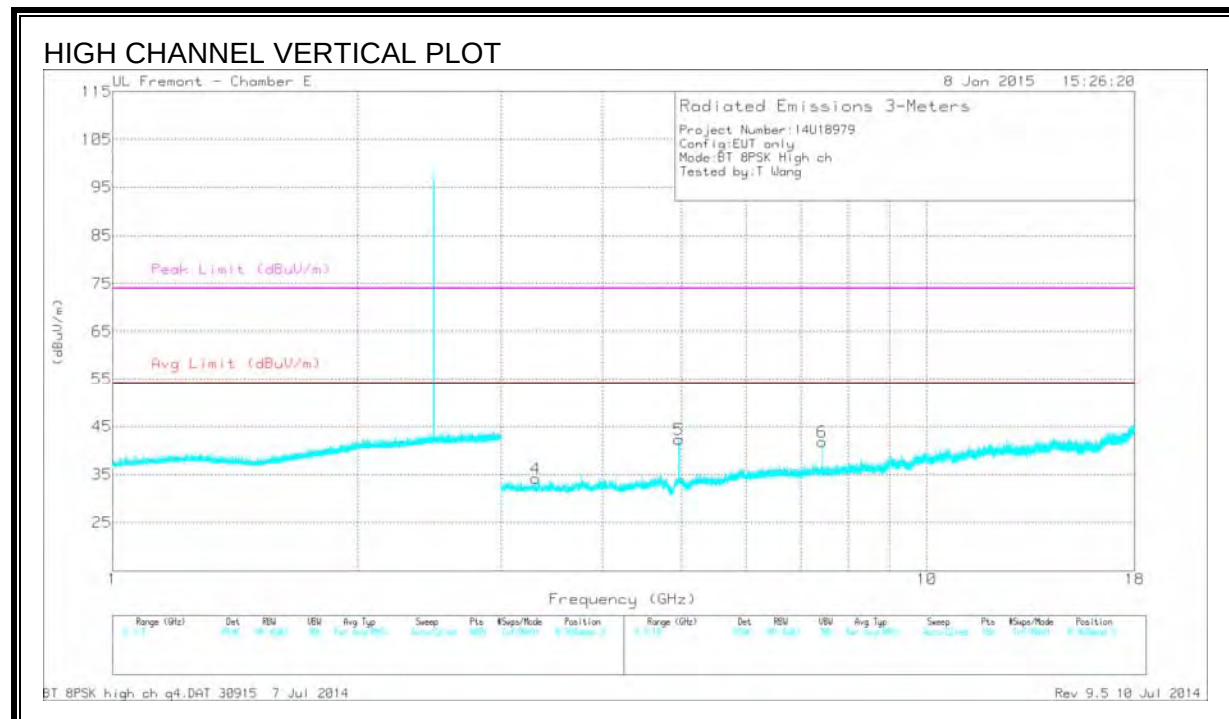
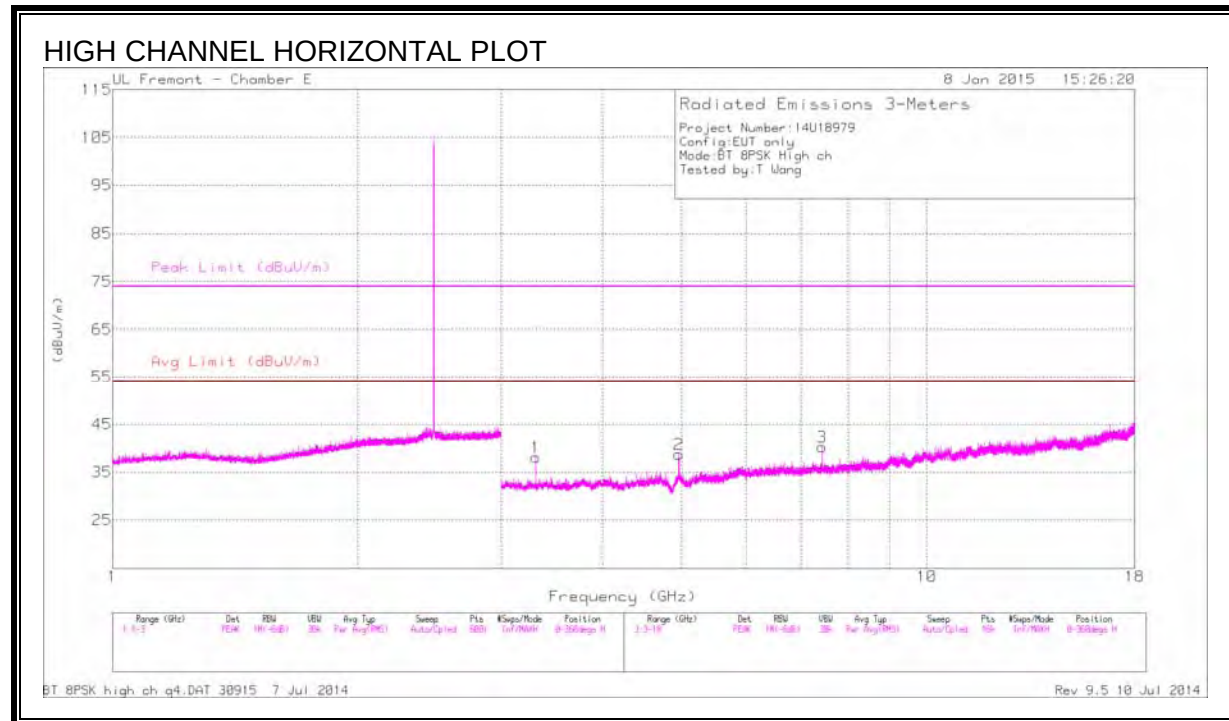
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.255	42.46	PK	33	-33.7	41.76	-	-	-	-	0-360	101	H
2	* 4.882	44.73	PK3	34.1	-33	45.83	-	-	74	-28.17	150	102	H
	* 4.882	37.08	VB10	34.1	-33	38.18	54	-15.82	-	-	150	102	H
3	* 7.323	43.16	PK3	35.6	-31.1	47.66	-	-	74	-26.34	143	112	H
	* 7.323	32.97	VB10	35.6	-31.1	37.47	54	-16.53	-	-	143	112	H
4	3.255	38.13	PK	33	-33.7	37.43	-	-	-	-	0-360	201	V
5	* 4.883	46.5	PK3	34.1	-33	47.6	-	-	74	-26.4	81	188	V
	* 4.882	39.53	VB10	34.1	-33	40.63	54	-13.37	-	-	81	188	V
6	* 7.323	45.1	PK3	35.6	-31.1	49.6	-	-	74	-24.4	92	190	V
	* 7.323	34.87	VB10	35.6	-31.1	39.37	54	-14.63	-	-	92	190	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK3 - FHSS Method: Maximum Peak

VB10Hz - FHSS Method: 10Hz Video Bandwidth

HARMONICS AND SPURIOUS EMISSIONS (HIGH)



DATA

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.307	38.86	PK	33	-33.8	38.06	-	-	-	-	0-360	101	H
2	* 4.96	44.39	PK3	34.1	-32.9	45.59	-	-	74	-28.41	149	100	H
	* 4.96	36.36	VB10	34.1	-32.9	37.56	54	-16.44	-	-	149	100	H
3	* 7.44	43.71	PK3	35.6	-31.4	47.91	-	-	74	-26.09	151	94	H
	* 7.44	33.37	VB10	35.6	-31.4	37.57	54	-16.43	-	-	151	94	H
4	3.307	34.94	PK	33	-33.8	34.14	-	-	-	-	0-360	101	V
5	* 4.96	47.03	PK3	34.1	-32.9	48.23	-	-	74	-25.77	32	101	V
	* 4.96	39.68	VB10	34.1	-32.9	40.88	54	-13.12	-	-	32	101	V
6	* 7.44	42.13	PK3	35.6	-31.4	46.33	-	-	74	-27.67	41	96	V
	* 7.44	31.94	VB10	35.6	-31.4	36.14	54	-17.86	-	-	41	96	V

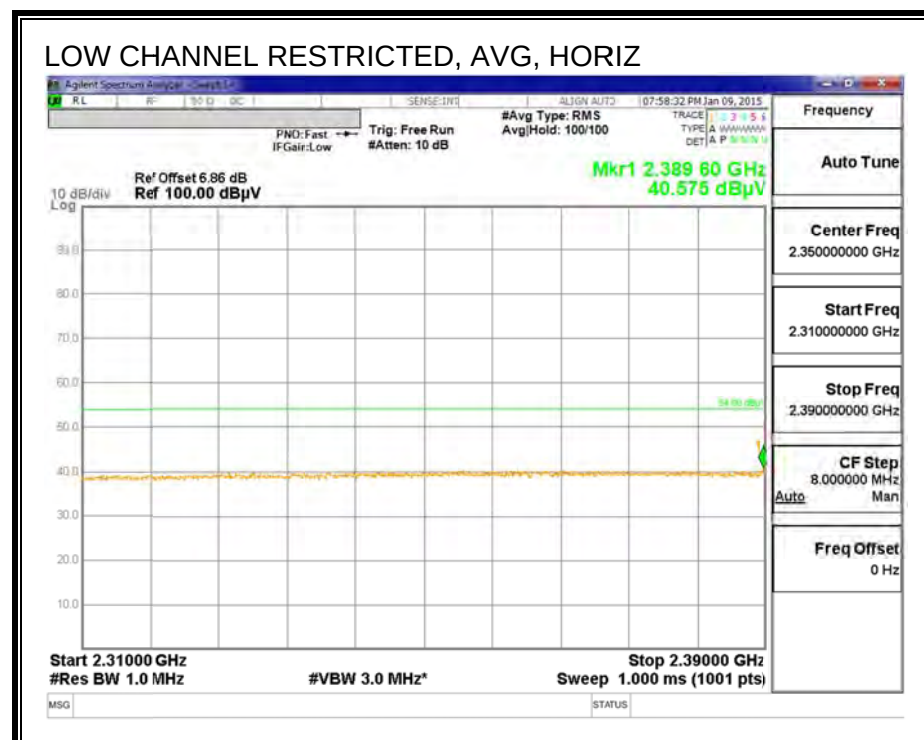
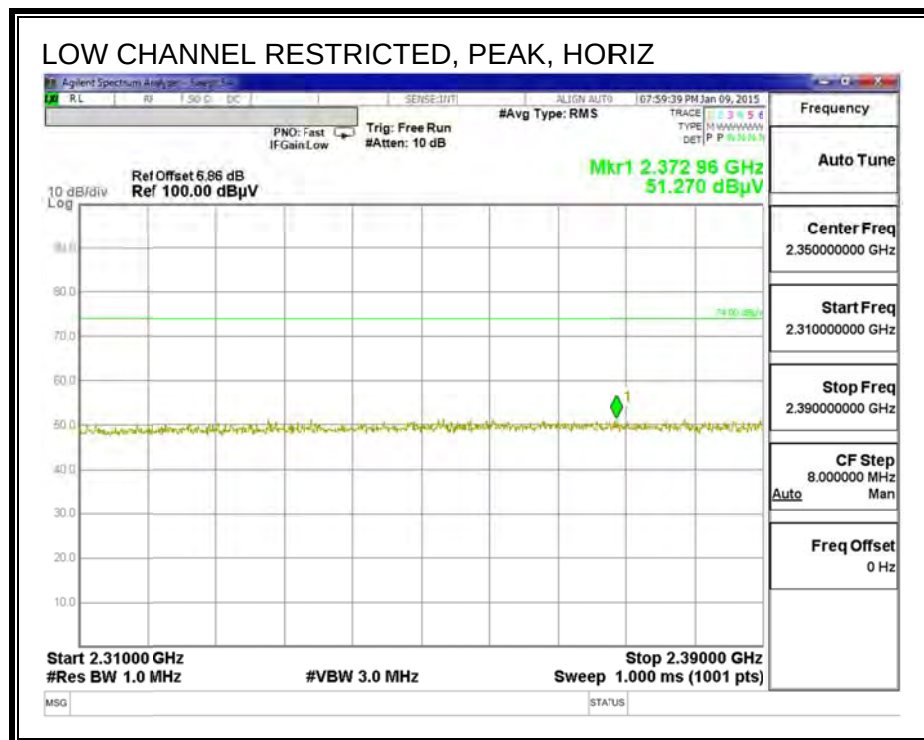
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK3 - FHSS Method: Maximum Peak

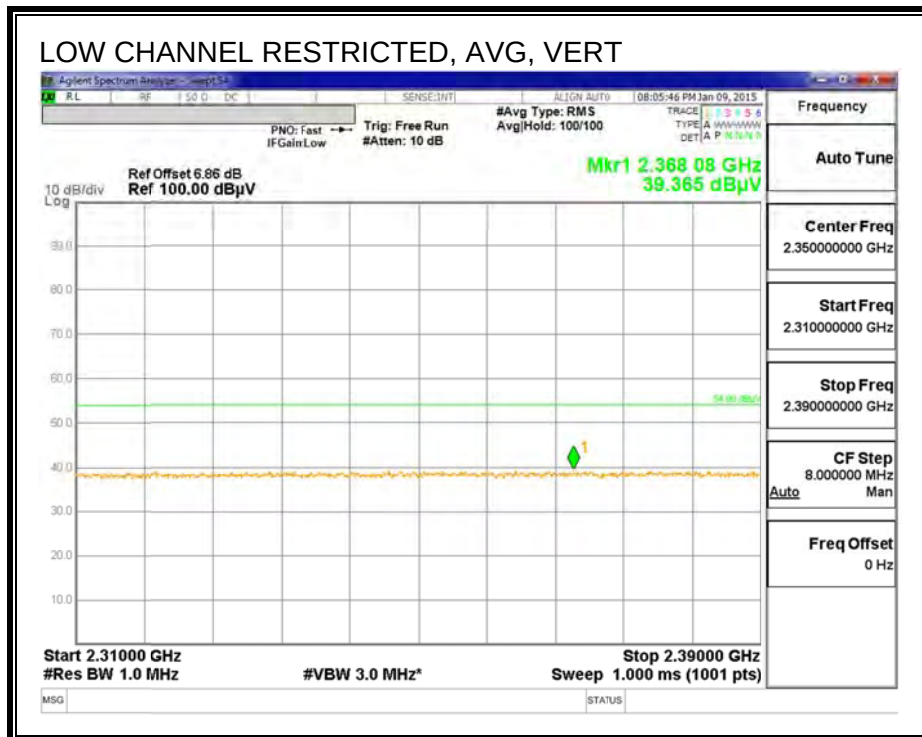
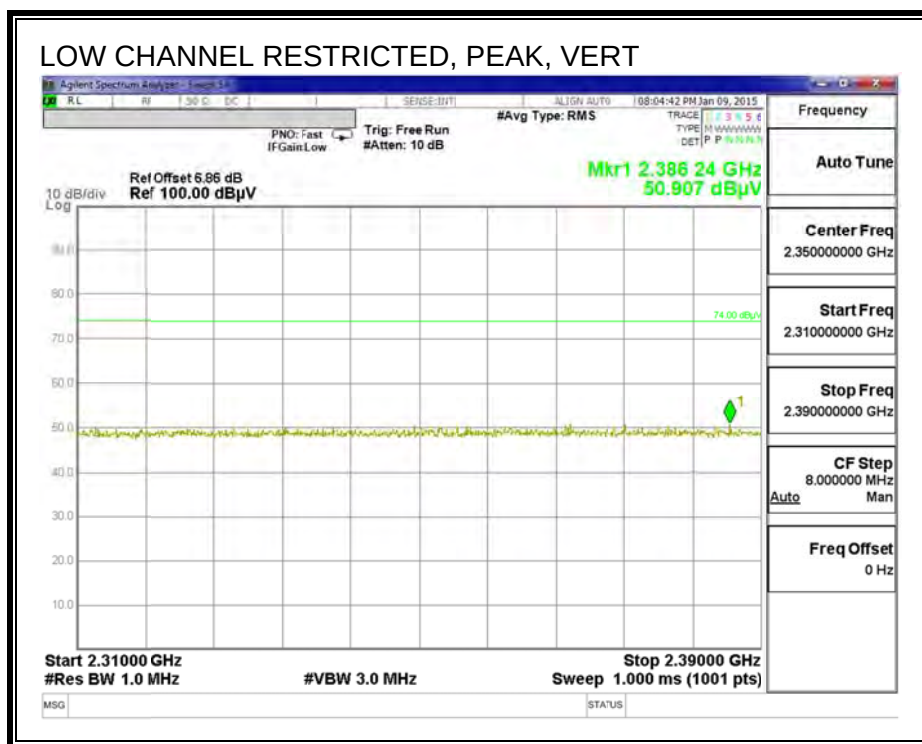
VB10Hz - FHSS Method: 10Hz Video Bandwidth

MODEL: A1623

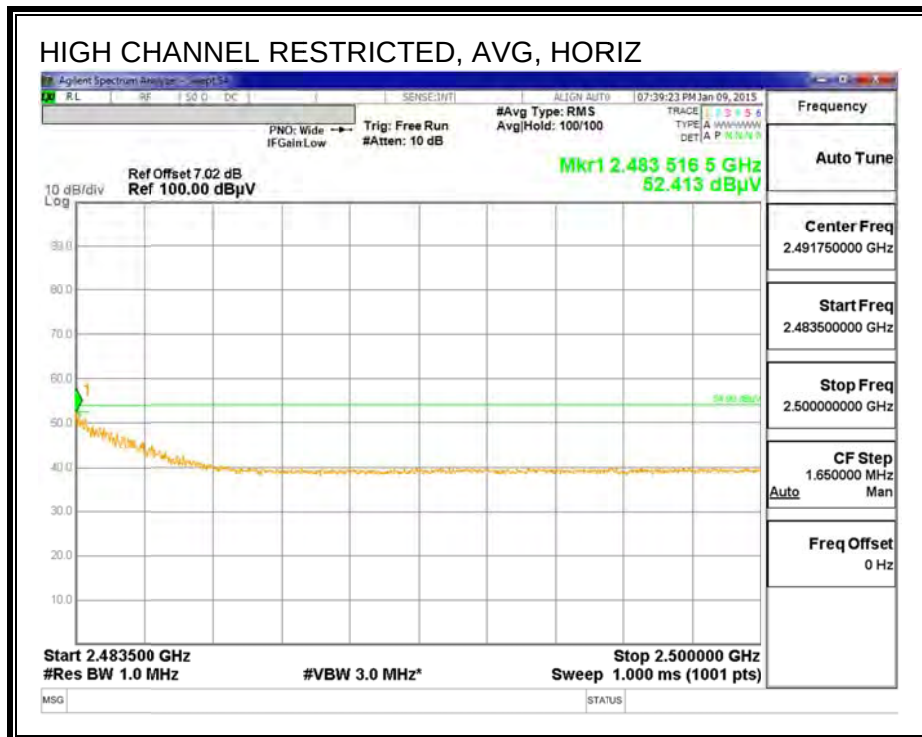
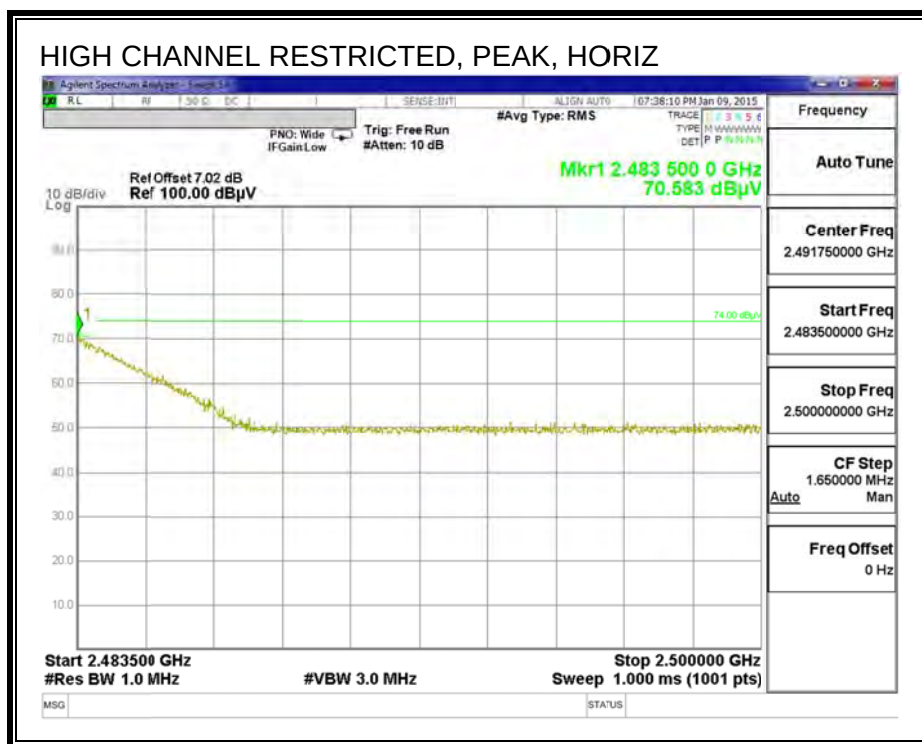
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



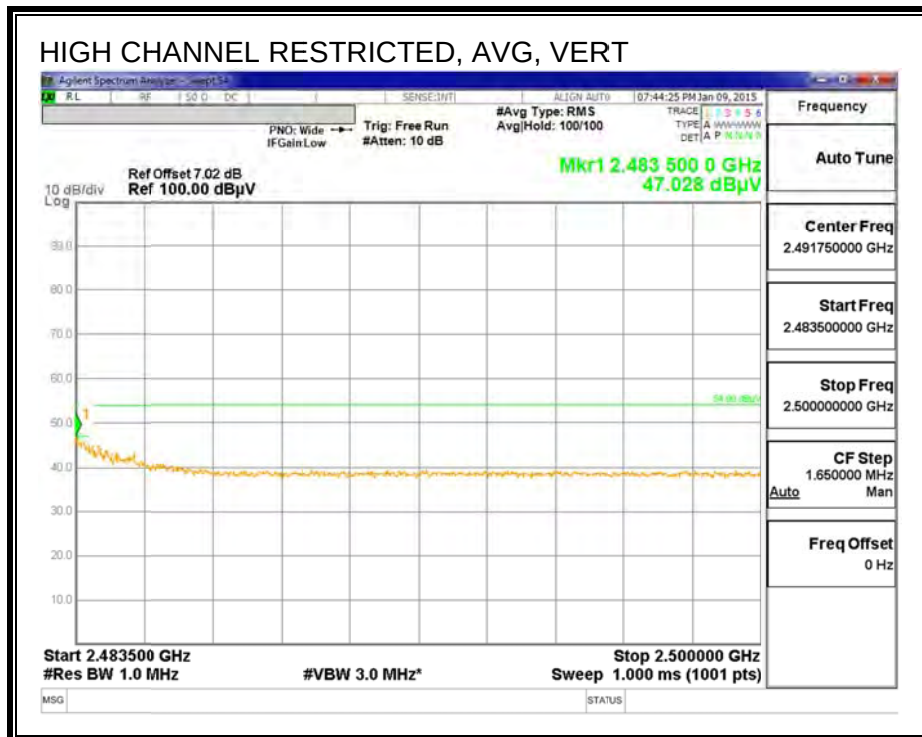
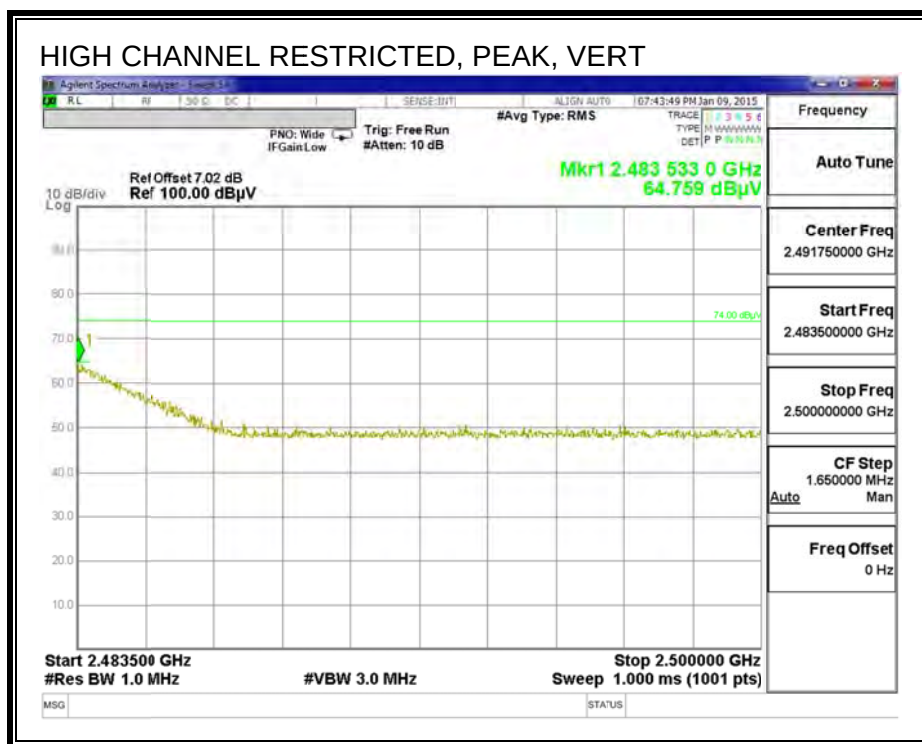
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



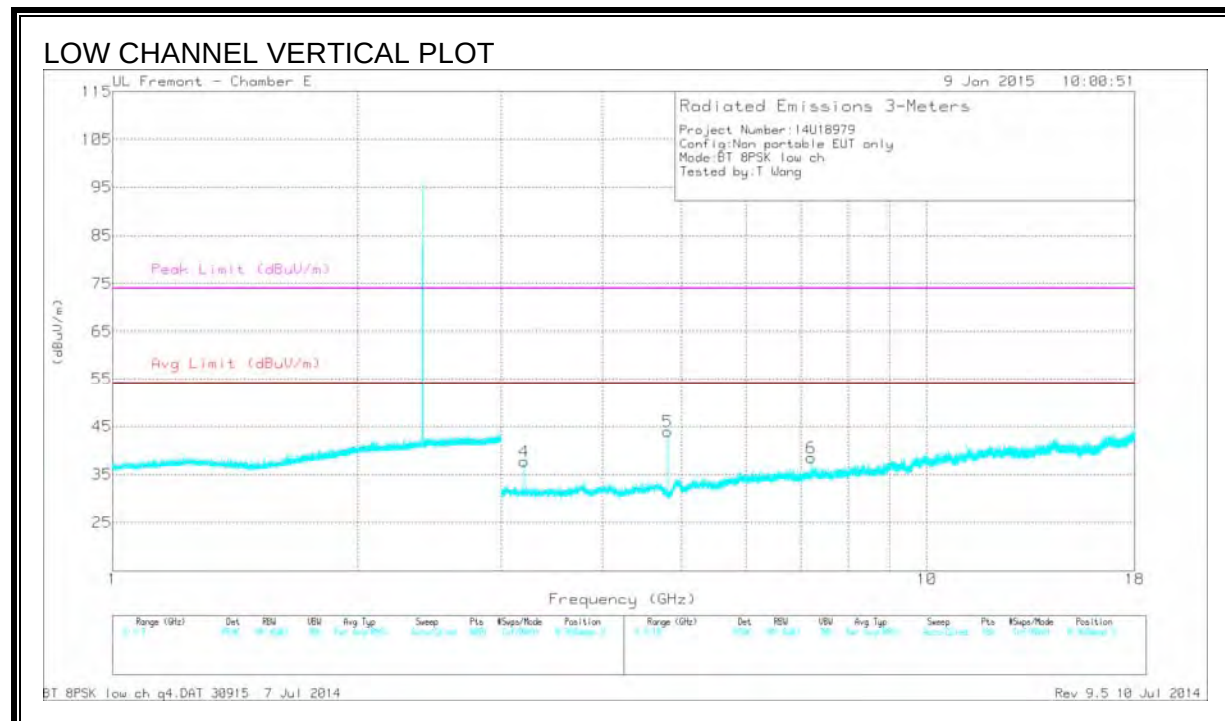
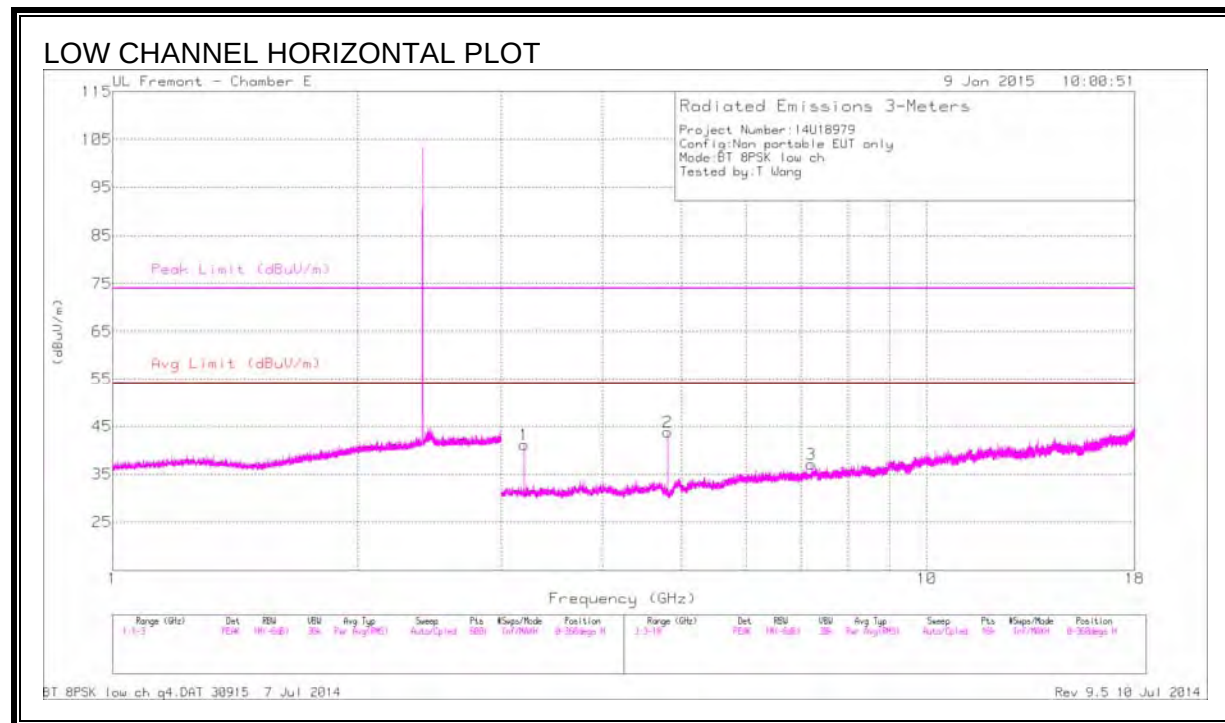
RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



HARMONICS AND SPURIOUS EMISSIONS (LOW)



DATA

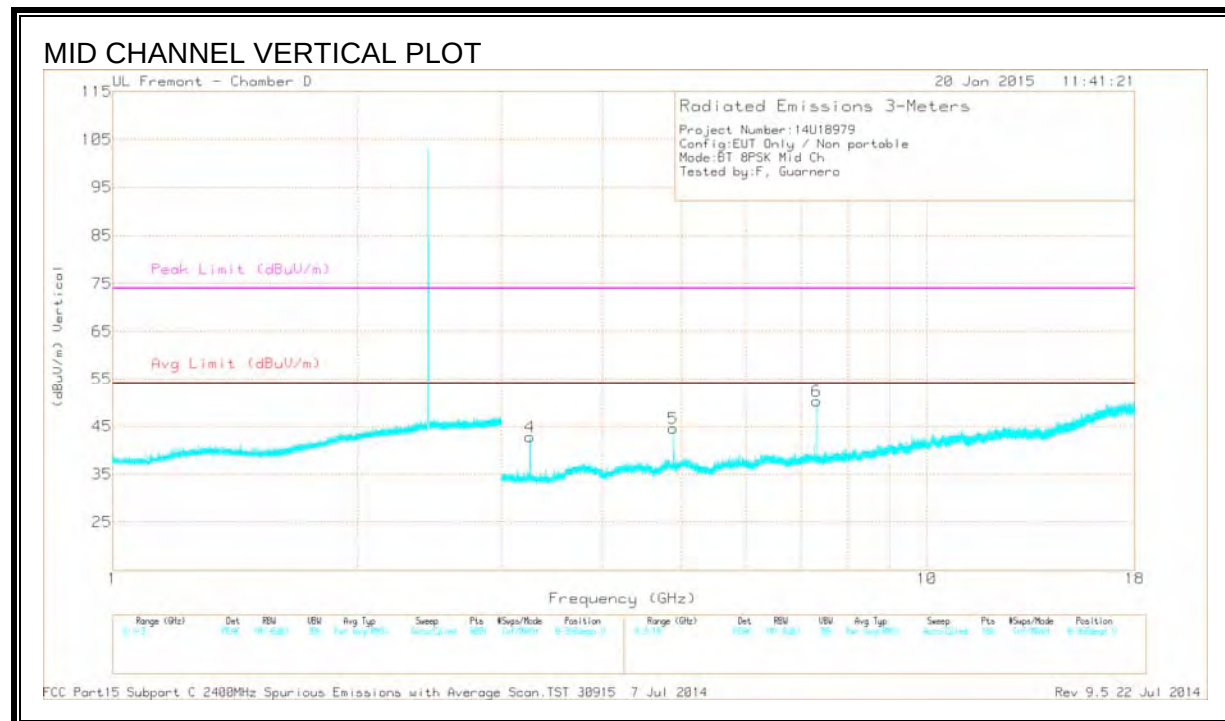
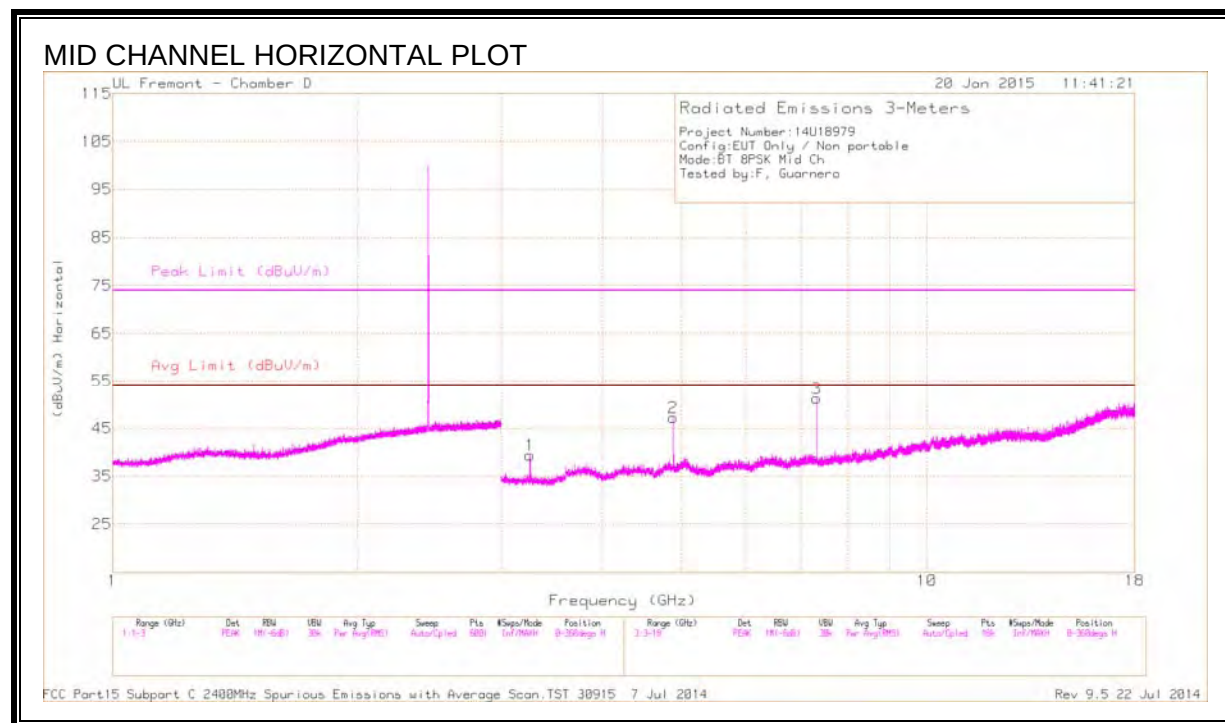
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.202	42.26	PK	32.9	-34	41.16	-	-	-	-	0-360	201	H
2	* 4.804	49.77	PK3	34.1	-33.2	50.67	-	-	74	-23.33	139	151	H
	* 4.804	43.6	VB10	34.1	-33.2	44.5	54	-9.5	-	-	139	151	H
3	7.206	32.6	PK	35.6	-31.1	37.1	-	-	-	-	0-360	201	H
4	3.202	38.86	PK	32.9	-34	37.76	-	-	-	-	0-360	201	V
5	* 4.804	50.79	PK3	34.1	-33.2	51.69	-	-	74	-22.31	103	127	V
	* 4.804	44.7	VB10	34.1	-33.2	45.6	54	-8.4	-	-	103	127	V
6	7.206	34.04	PK	35.6	-31.1	38.54	-	-	-	-	0-360	201	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK3 - FHSS Method: Maximum Peak

VB10Hz - FHSS Method: 10Hz Video Bandwidth

HARMONICS AND SPURIOUS EMISSIONS (MID)



DATA

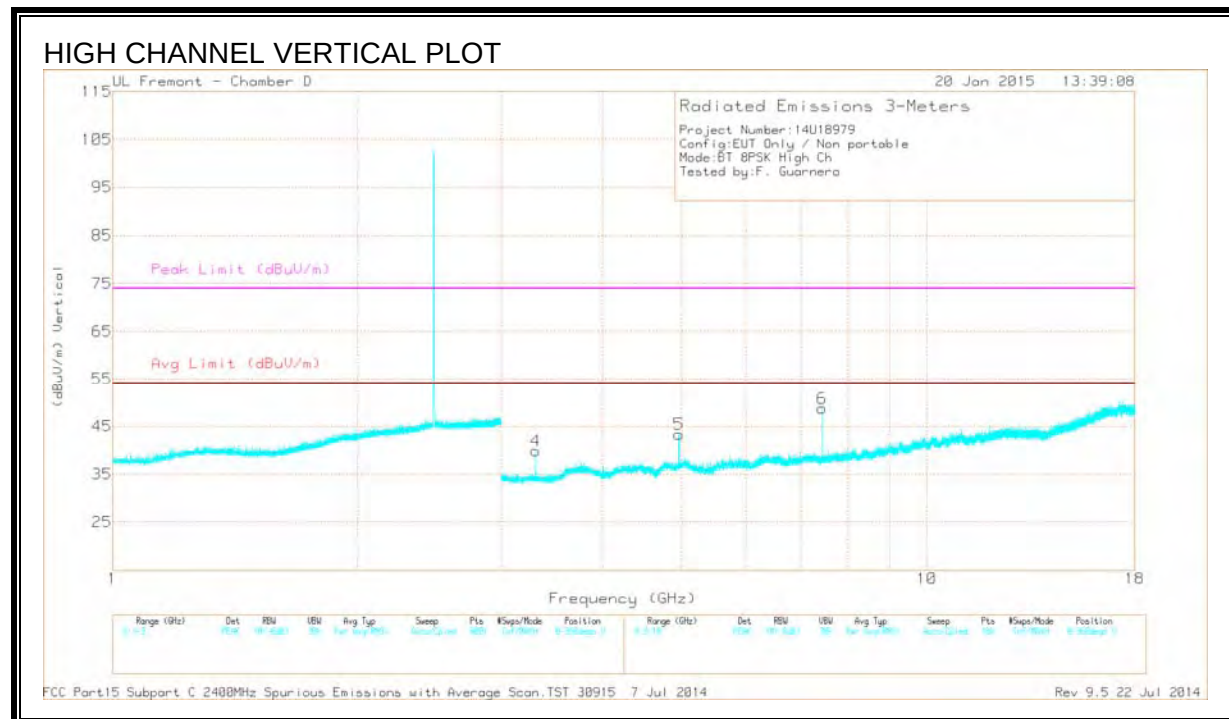
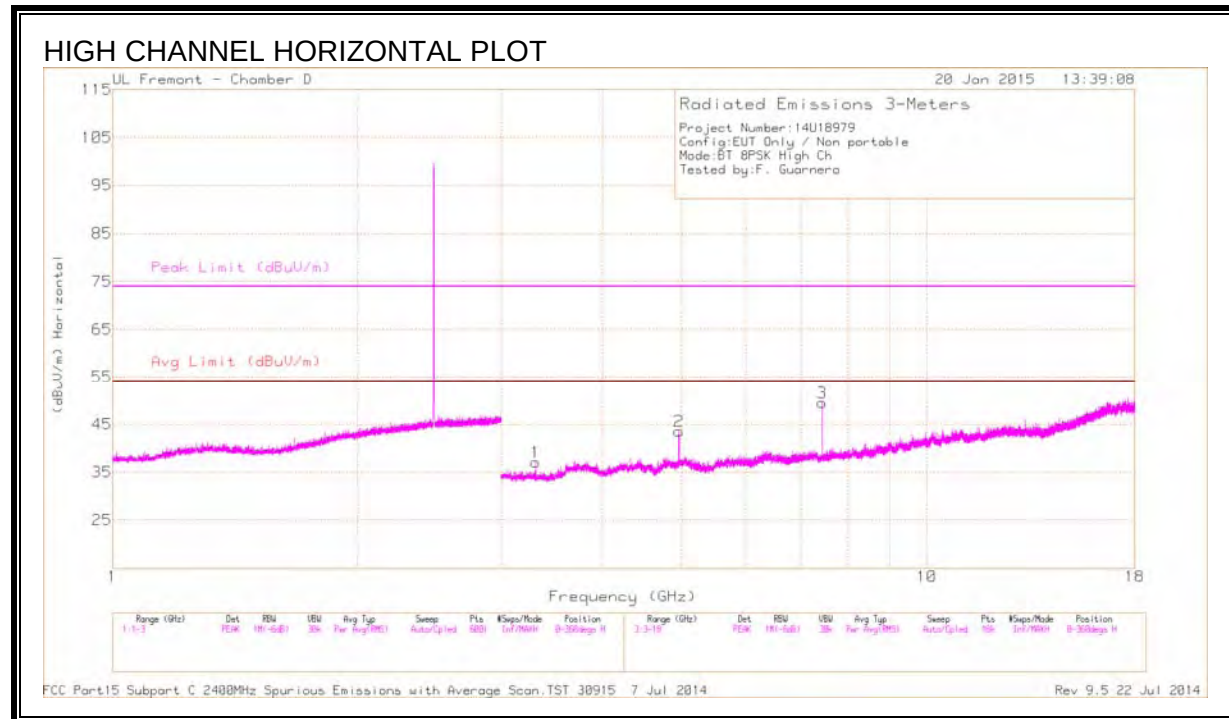
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.255	42.13	PK3	32.7	-28	46.83	-	-	-	-	305	387	H
2	* 4.882	44.28	PK3	34.2	-28	50.48	-	-	74	-23.52	37	144	H
	* 4.882	37.81	VB10	34.2	-28	44.01	54	-9.99	-	-	37	144	H
3	* 7.323	48.5	PK3	35.7	-24.9	59.3	-	-	74	-14.7	354	151	H
	* 7.323	39.64	VB10	35.7	-24.9	50.44	54	-3.56	-	-	354	151	H
4	3.255	43.79	PK3	32.7	-28	48.49	-	-	-	-	20	104	V
5	* 4.883	43.15	PK3	34.2	-28	49.35	-	-	74	-24.65	270	181	V
	* 4.882	35.91	VB10	34.2	-28	42.11	54	-11.89	-	-	270	181	V
6	* 7.322	47.4	PK3	35.7	-24.9	58.2	-	-	74	-15.8	11	162	V
	* 7.323	38.62	VB10	35.7	-24.9	49.42	54	-4.58	-	-	11	162	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK3 - FHSS Method: Maximum Peak

VB10Hz - FHSS Method: 10Hz Video Bandwidth

HARMONICS AND SPURIOUS EMISSIONS (HIGH)



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Fitr/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	3.307	40.85	PK3	32.7	-28.2	45.35	-	-	-	-	19	180	H
2	* 4.96	42.49	PK3	34.2	-27.4	49.29	-	-	74	-24.71	18	200	H
	* 4.96	34.52	VB10	34.2	-27.4	41.32	54	-12.68	-	-	18	200	H
3	* 7.44	47.13	PK3	35.6	-24.8	57.93	-	-	74	-16.07	346	189	H
	* 7.44	37.53	VB10	35.6	-24.8	48.33	54	-5.67	-	-	346	189	H
4	3.307	42.09	PK3	32.7	-28.2	46.59	-	-	-	-	27	101	V
5	* 4.96	42.85	PK3	34.2	-27.4	49.65	-	-	74	-24.35	93	148	V
	* 4.96	34.87	VB10	34.2	-27.4	41.67	54	-12.33	-	-	93	148	V
6	* 7.44	47.02	PK3	35.6	-24.8	57.82	-	-	74	-16.18	6	171	V
	* 7.44	37.31	VB10	35.6	-24.8	48.11	54	-5.89	-	-	6	171	V

- indicates frequency in CFR15.205/IC8.10 Restricted Band

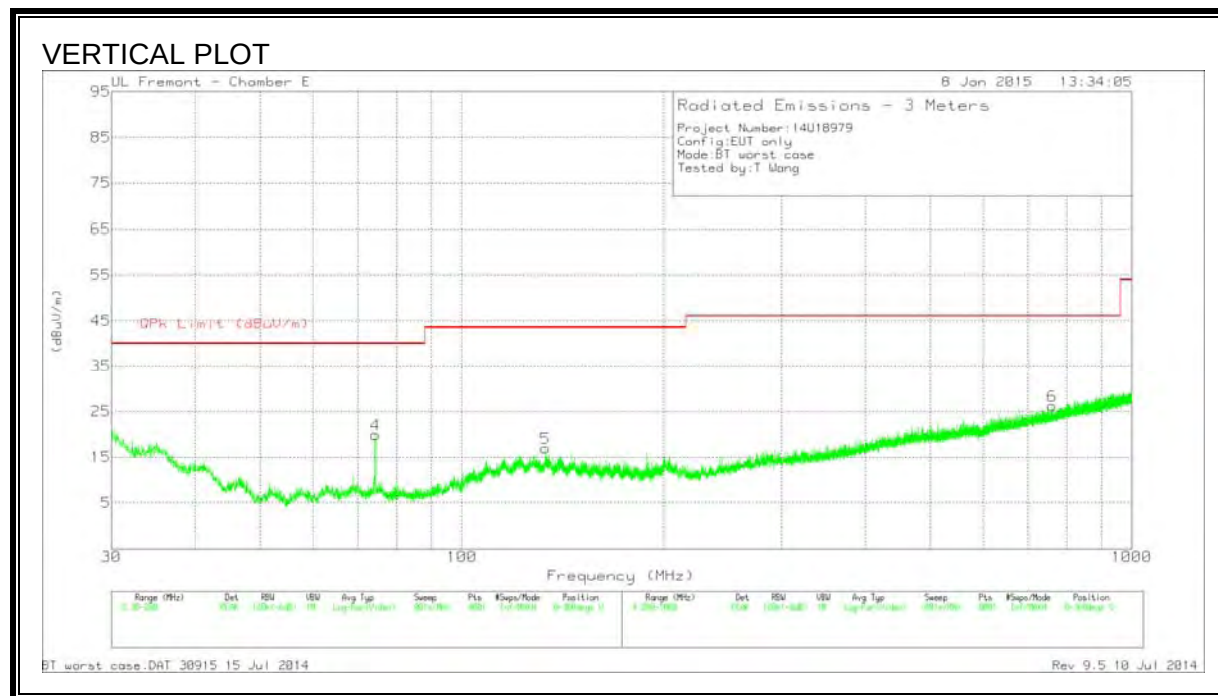
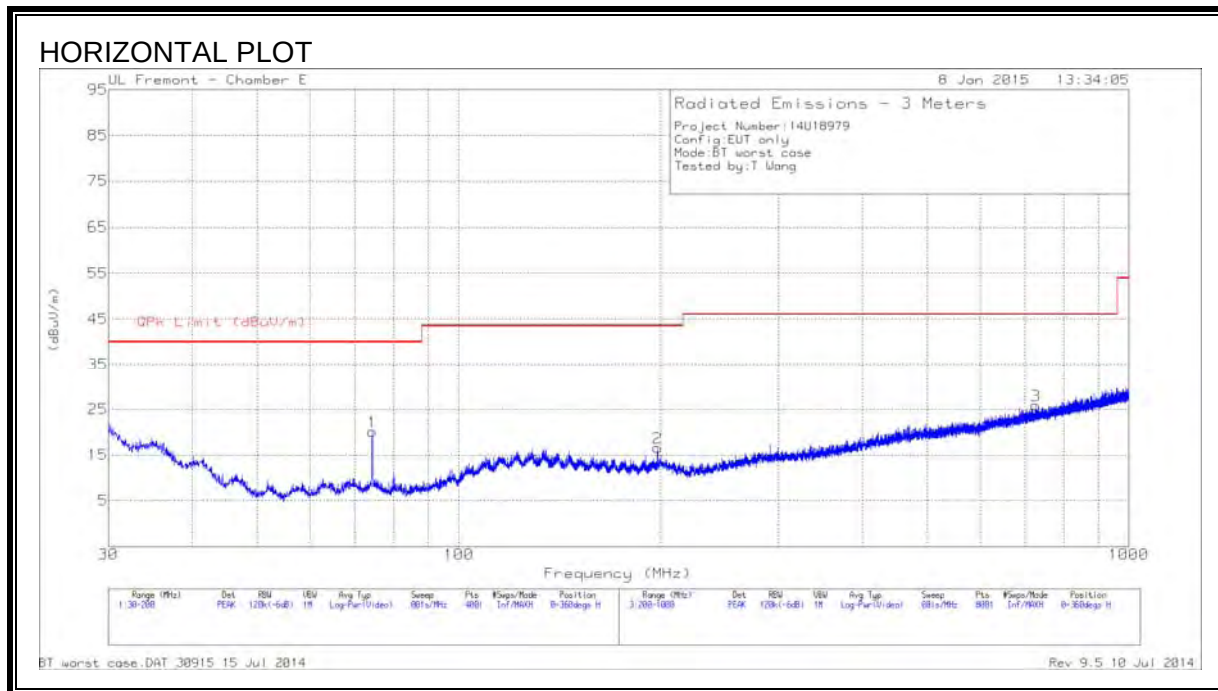
PK3 - FHSS Method: Maximum Peak

VB10Hz - FHSS Method: 10Hz Video Bandwidth

9.2. WORST-CASE BELOW 1 GHz

MODEL: A1622

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



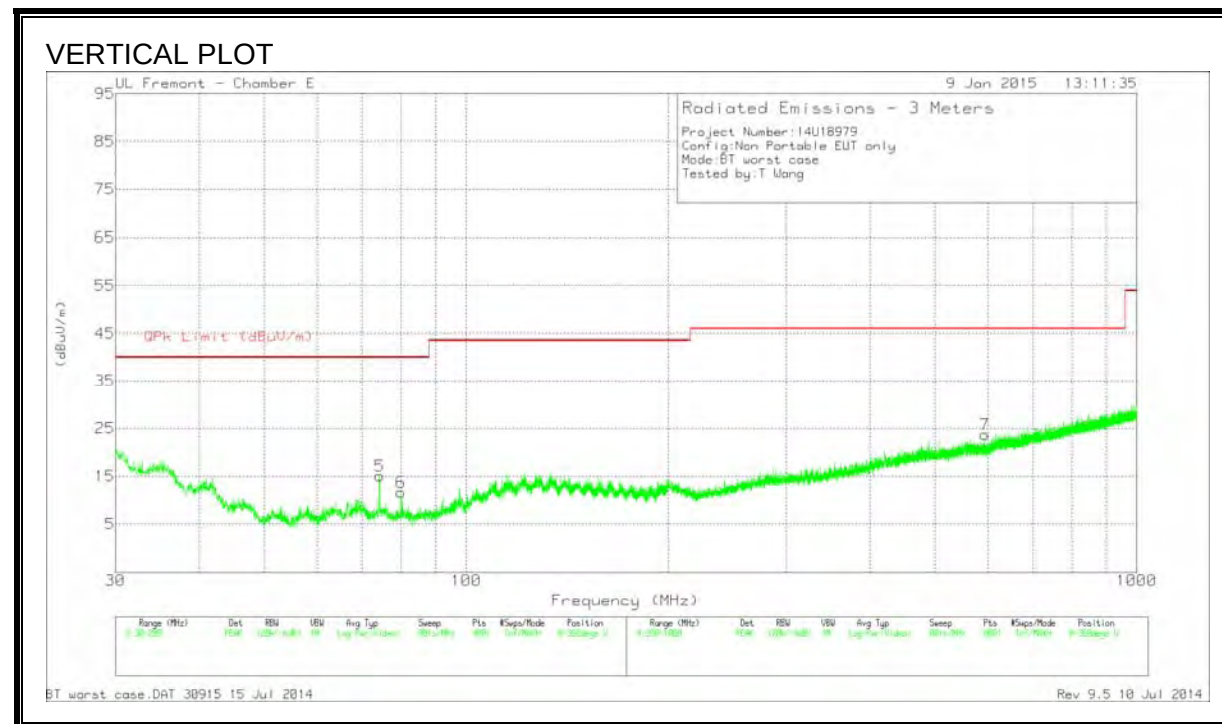
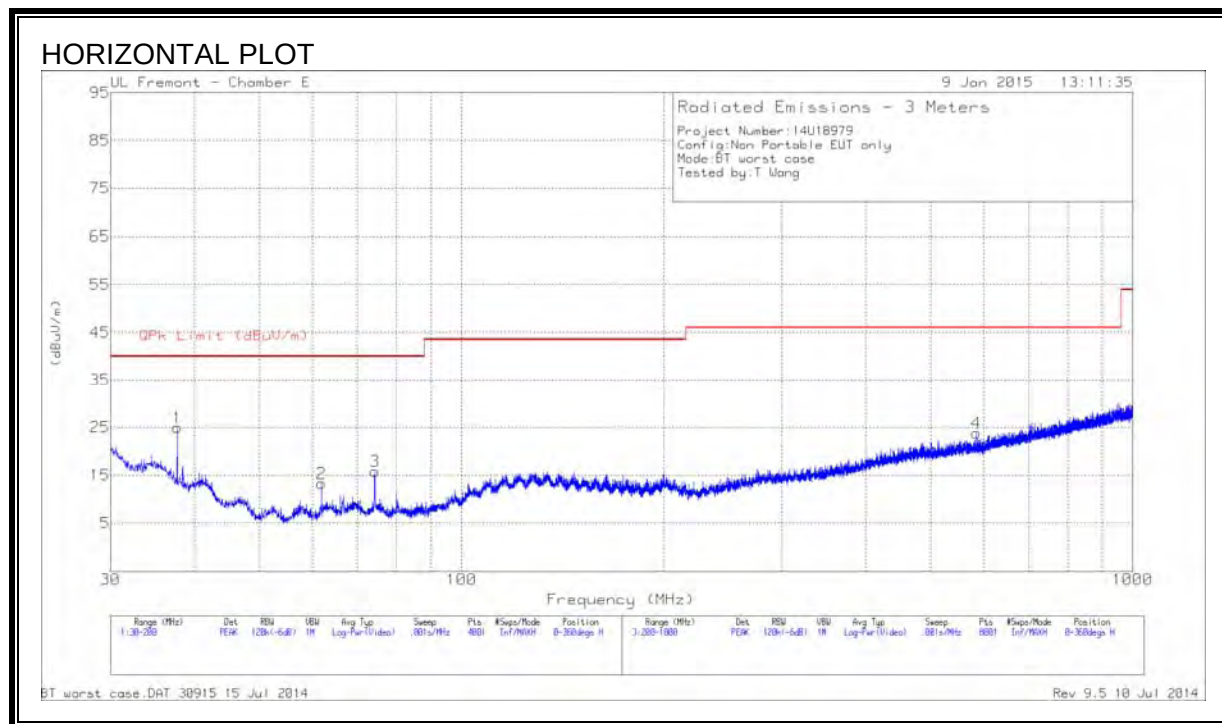
HORIZONTAL AND VERTICAL DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Hybrid	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 74.2850	39.70	PK	10.9	-30.4	20.20	40.00	-19.80	0-360	103	H
2	197.9175	30.57	PK	15.2	-29.2	16.57	43.52	-26.95	0-360	103	H
3	727.000	29.16	PK	23.4	-26.7	25.86	46.02	-20.16	0-360	401	H
4	* 74.2425	39.36	PK	10.9	-30.4	19.86	40.00	-20.14	0-360	100	V
5	* 133.4025	30.03	PK	16.7	-29.8	16.93	43.52	-26.59	0-360	100	V
6	761.4000	28.98	PK	23.7	-26.5	26.18	46.02	-19.84	0-360	100	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
PK - Peak detector

MODEL: A1623

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



HORIZONTAL AND VERTICAL DATA

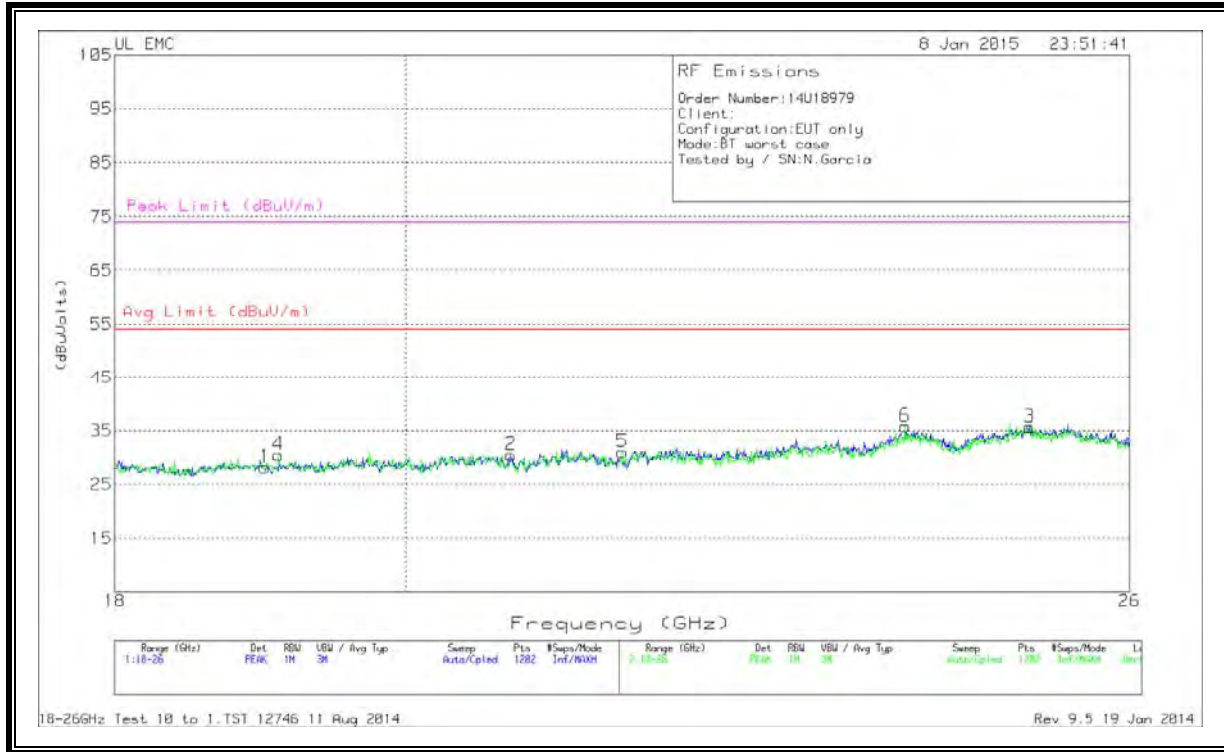
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Hybrid	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 37.6925	36.95	PK	18.8	-30.8	24.95	40.00	-15.05	0-360	101	H
2	61.8750	32.85	PK	10.9	-30.5	13.25	40.00	-26.75	0-360	101	H
3	* 74.2425	35.35	PK	10.9	-30.4	15.85	40.00	-24.15	0-360	101	H
4	584.8000	29.69	PK	21.4	-27.3	23.79	46.02	-22.23	0-360	301	H
5	* 74.2425	34.58	PK	10.9	-30.4	15.08	40.00	-24.92	0-360	100	V
6	80.0225	31.62	PK	10.3	-30.3	11.62	40.00	-28.38	0-360	100	V
7	593.7000	29.55	PK	21.3	-27.2	23.65	46.02	-22.37	0-360	301	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
PK - Peak detector

9.3. WORST-CASE ABOVE 18 GHz

MODEL: A1622

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



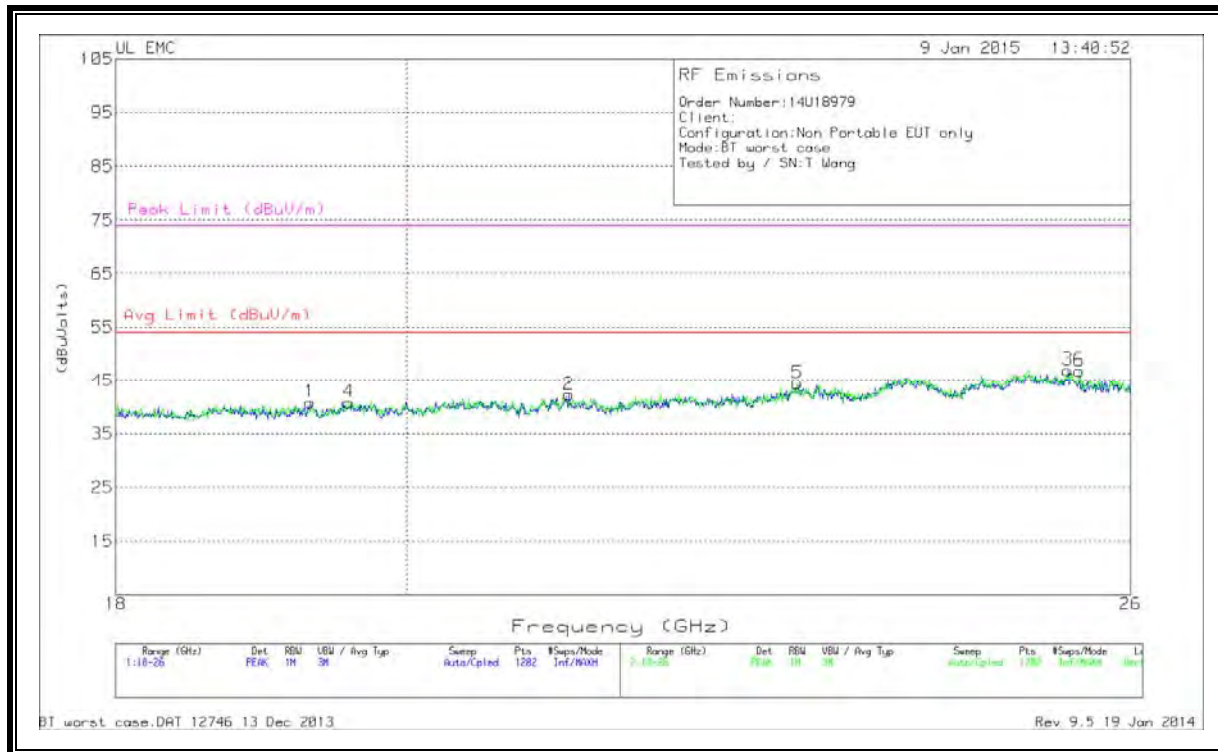
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T89 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	19.006	39.77	PK	32.9	-24.5	-20	28.16	54	-25.83	74	-45.83
2	20.778	41.20	PK	33.1	-23.8	-20	30.50	54	-23.50	74	-43.50
3	25.074	43.97	PK	34.5	-22.8	-20	35.66	54	-18.33	74	-38.33
4	19.099	41.60	PK	32.9	-24.0	-20	30.50	54	-23.50	74	-43.50
5	21.637	41.00	PK	33.5	-23.5	-20	31.00	54	-23.00	74	-43.00
6	23.968	44.23	PK	34.2	-22.6	-20	35.83	54	-18.16	74	-38.16

PK - Peak detector

MODEL: A1623

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



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T89 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	19.312	41.33	PK	32.8	-23.8	-9.5	40.83	54	-13.16	74	-33.16
2	21.211	42.33	PK	33.3	-23.8	-9.5	42.33	54	-11.66	74	-31.66
3	25.414	44.80	PK	34.6	-22.9	-9.5	47.00	54	-7.00	74	-27.00
4	19.585	41.43	PK	32.9	-24.0	-9.5	40.83	54	-13.16	74	-33.16
5	23.042	43.30	PK	34	-23.3	-9.5	44.50	54	-9.50	74	-29.50
6	25.520	44.73	PK	34.7	-23.1	-9.5	46.83	54	-7.16	74	-27.16

PK - Peak detector

10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

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

* Decreases with the logarithm of the frequency.

TEST PROCEDURE

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

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

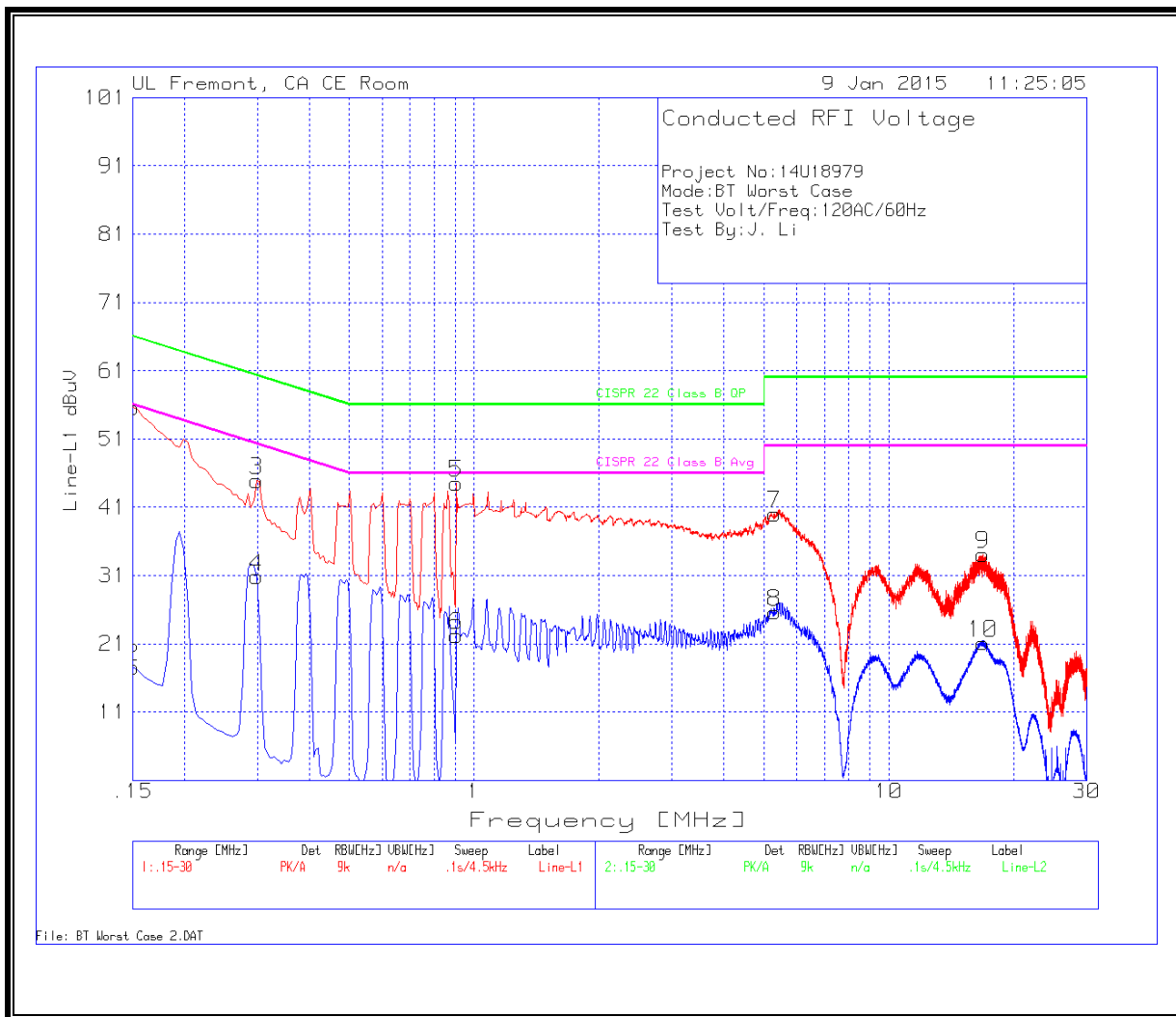
Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

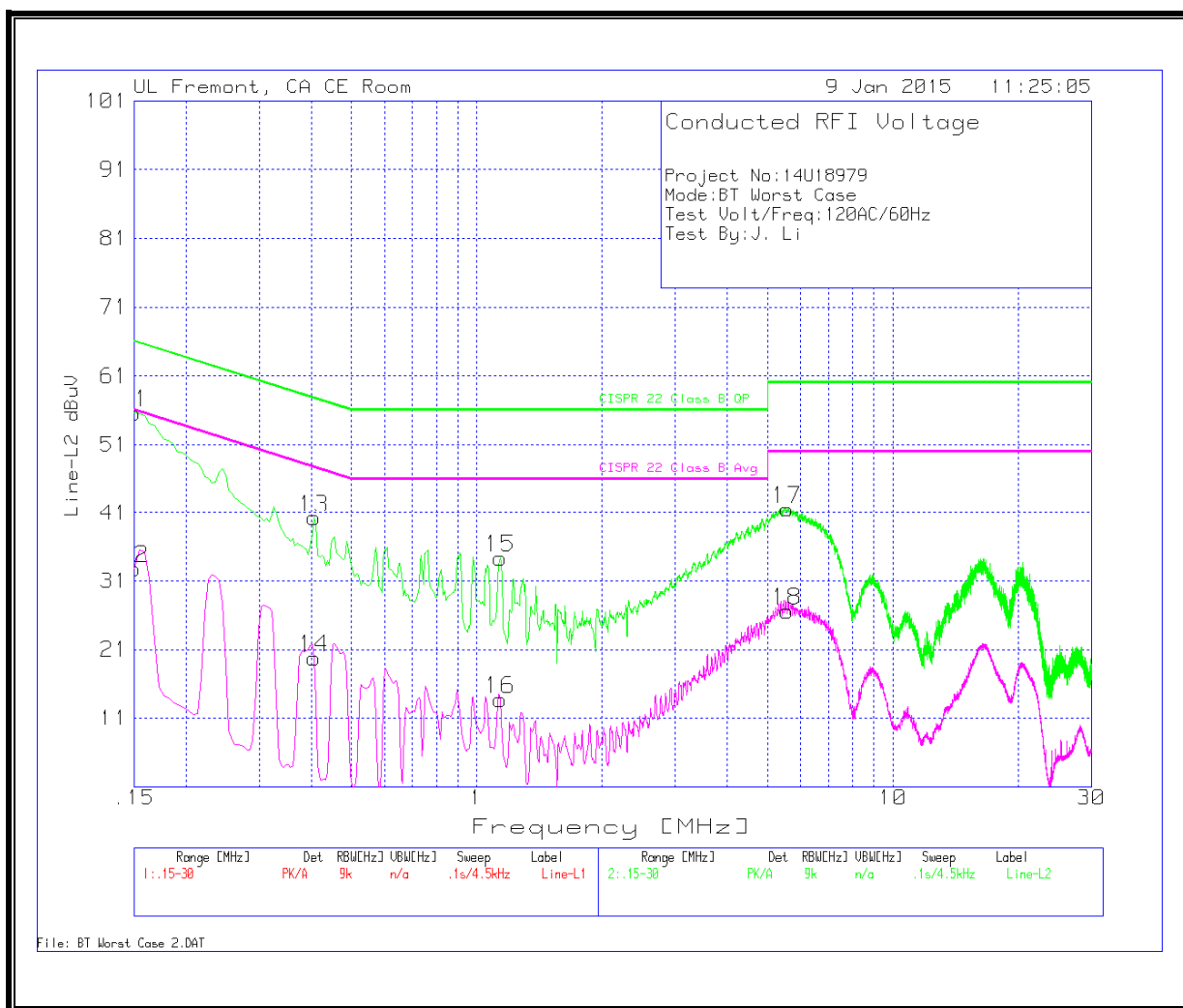
10.1. MODEL: A1622

AC/DC ADAPTER MODEL NUMBER: MD506LL/A

LINE 1 RESULT



LINE 2 RESULT



WORST EMISSIONS DATA

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	.15	54.15	PK	1.4	0	55.55	66	-10.45	-	-
2	.15	16.23	Av	1.4	0	17.63	-	-	56	-38.37
3	.2985	44.29	PK	.6	0	44.89	60.3	-15.41	-	-
4	.2985	30.2	Av	.6	0	30.8	-	-	50.3	-19.5
5	.906	44.28	PK	.3	0	44.58	56	-11.42	-	-
6	.906	21.98	Av	.3	0	22.28	-	-	46	-23.72
7	5.3115	39.7	PK	.2	.1	40	60	-20	-	-
8	5.3115	25.34	Av	.2	.1	25.64	-	-	50	-24.36
9	16.881	33.6	PK	.3	.2	34.1	60	-25.9	-	-
10	16.881	20.63	Av	.3	.2	21.13	-	-	50	-28.87

Line-L2 .15 - 30MHz

Trace Markers

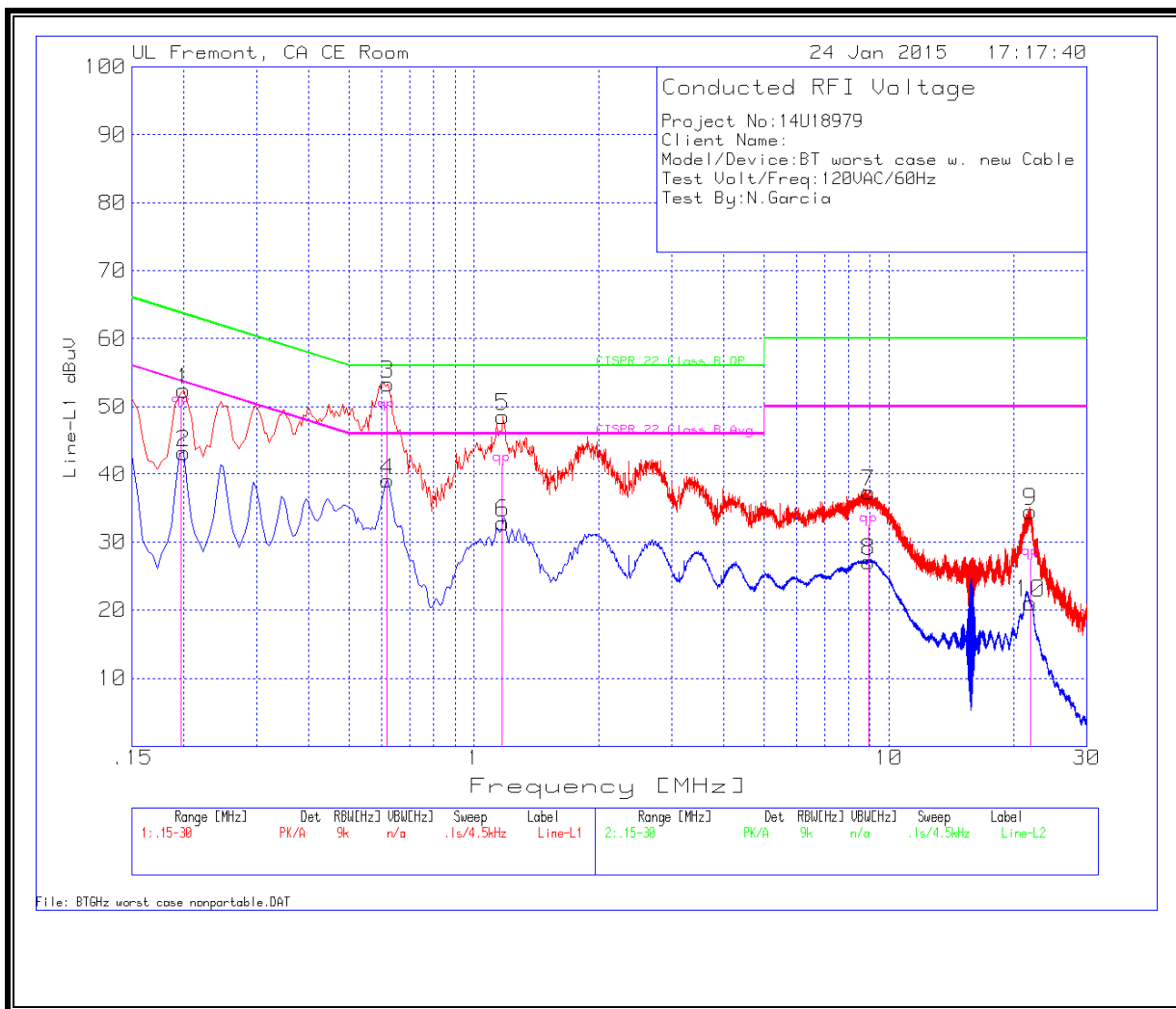
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2 (dB)	LC Cables 2&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
11	.15	54.11	PK	1.5	0	55.61	66	-10.39	-	-
12	.15	31.28	Av	1.5	0	32.78	-	-	56	-23.22
13	.4065	39.92	PK	.4	0	40.32	57.7	-17.38	-	-
14	.4065	19.39	Av	.4	0	19.79	-	-	47.7	-27.91
15	1.14	34	PK	.3	0	34.3	56	-21.7	-	-
16	1.14	13.45	Av	.3	0	13.75	-	-	46	-32.25
17	5.568	41.21	PK	.2	.1	41.51	60	-18.49	-	-
18	5.568	26.26	Av	.2	.1	26.56	-	-	50	-23.44

PK - Peak detector
Av - average detection

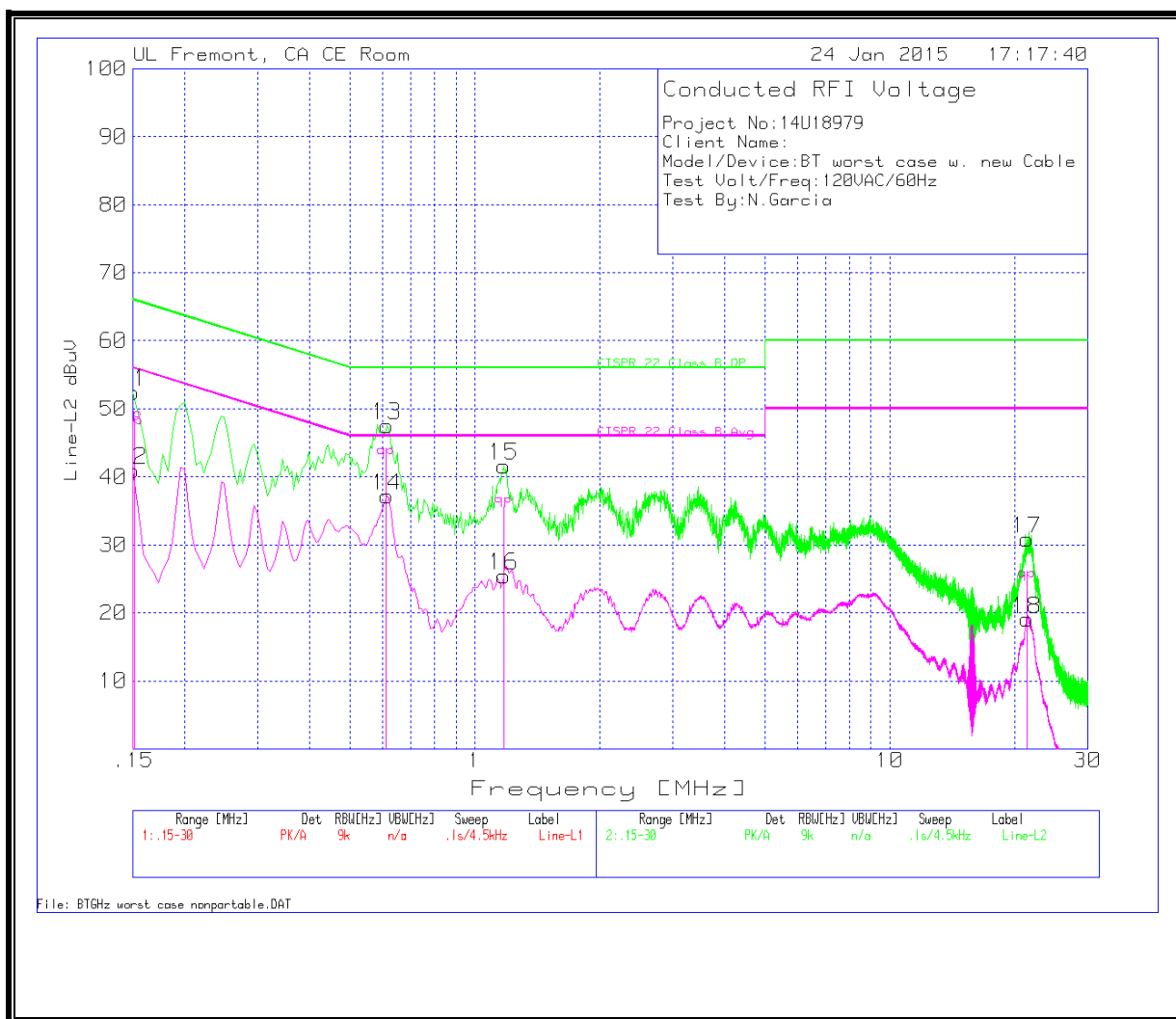
10.2. MODEL: A1623

AC/DC ADAPTER MODEL NUMBER: MD836LL/A

LINE 1 RESULT



LINE 2 RESULT



WORST EMISSIONS DATA

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	.1995	51.49	PK	.9	0	52.39	63.6	-11.21	-	-
2	.1995	42.32	Av	.9	0	43.22	-	-	53.6	-10.38
3	.618	53	PK	.3	0	53.3	56	-2.7	-	-
4	.618	38.77	Av	.3	0	39.07	-	-	46	-6.93
5	1.1715	48.24	PK	.2	.1	48.54	56	-7.46	-	-
6	1.1715	32.52	Av	.2	.1	32.82	-	-	46	-13.18
7	8.9385	37.03	PK	.2	.1	37.33	60	-22.67	-	-
8	8.9385	26.86	Av	.2	.1	27.16	-	-	50	-22.84
9	21.9885	33.94	PK	.3	.2	34.44	60	-25.56	-	-
10	21.9885	20.52	Av	.3	.2	21.02	-	-	50	-28.98

Quasi-Peak Emissions

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)
.1968	49.11	QP	1	0	50.11	63.7	-13.59	-	-
.6153	49.16	QP	.3	0	49.46	56	-6.54	-	-
1.1679	41.21	QP	.2	.1	41.51	56	-14.49	-	-
8.9421	32.13	QP	.2	.1	32.43	60	-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)
11	.15	51	PK	1.5	0	52.5	66	-13.5	-	-
12	.15	39.48	Av	1.5	0	40.98	-	-	56	-15.02
13	.6135	47.26	PK	.3	0	47.56	56	-8.44	-	-
14	.6135	36.84	Av	.3	0	37.14	-	-	46	-8.86
15	1.1715	41.23	PK	.3	.1	41.63	56	-14.37	-	-
16	1.1715	25.02	Av	.3	.1	25.42	-	-	46	-20.58
17	21.417	30.32	PK	.3	.2	30.82	60	-29.18	-	-
18	21.417	18.55	Av	.3	.2	19.05	-	-	50	-30.95

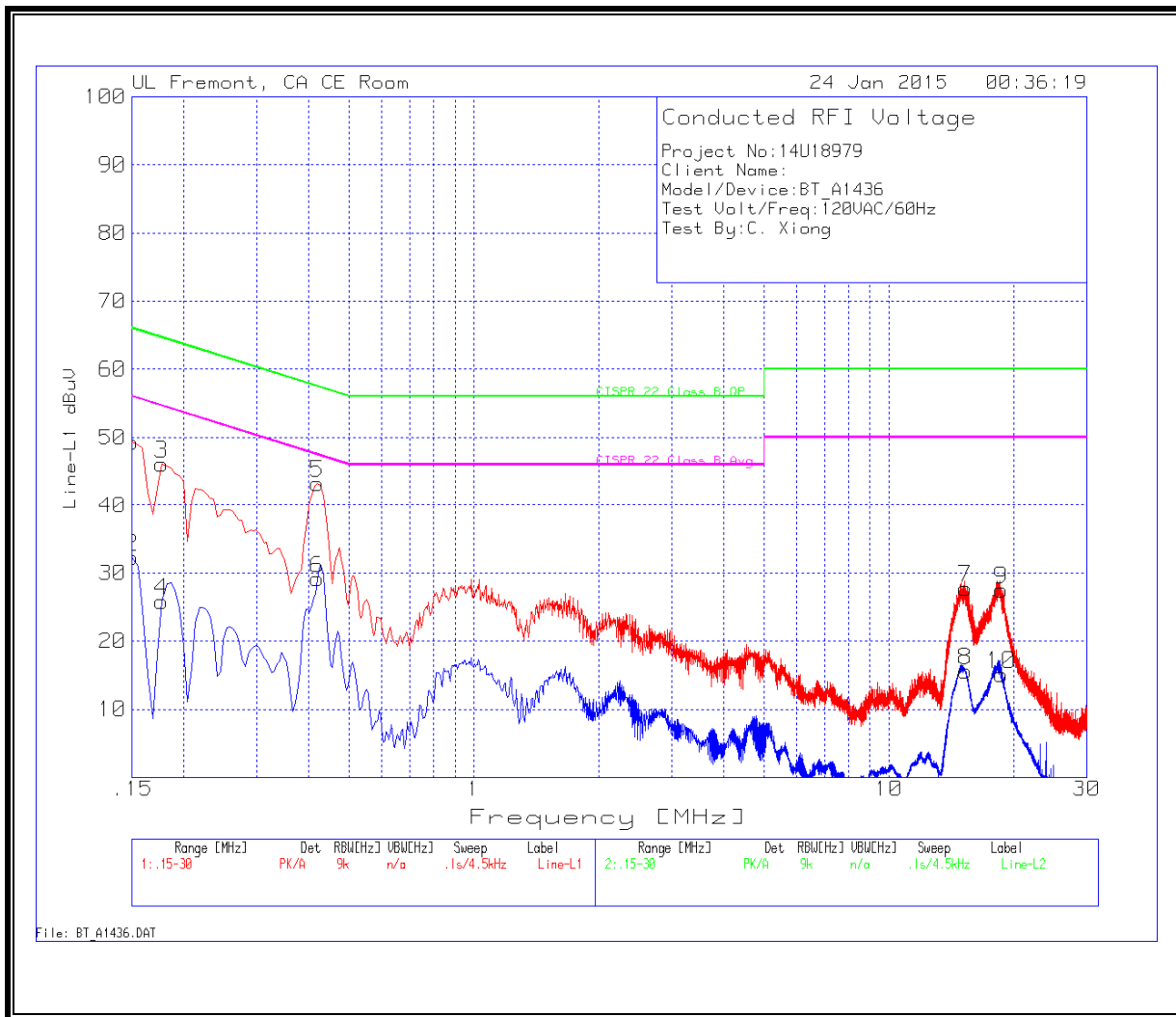
Quasi-Peak Emissions

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)
.15	46.72	QP	1.5	0	48.22	66	-17.78	-	-
.1509	45.74	QP	1.5	0	47.24	66	-18.76	-	-
.6099	42.53	QP	.3	0	42.83	56	-13.17	-	-
1.1742	35.34	QP	.3	0	35.64	56	-20.36	-	-
21.4152	24.24	QP	.3	.2	24.74	60	-35.26	-	-

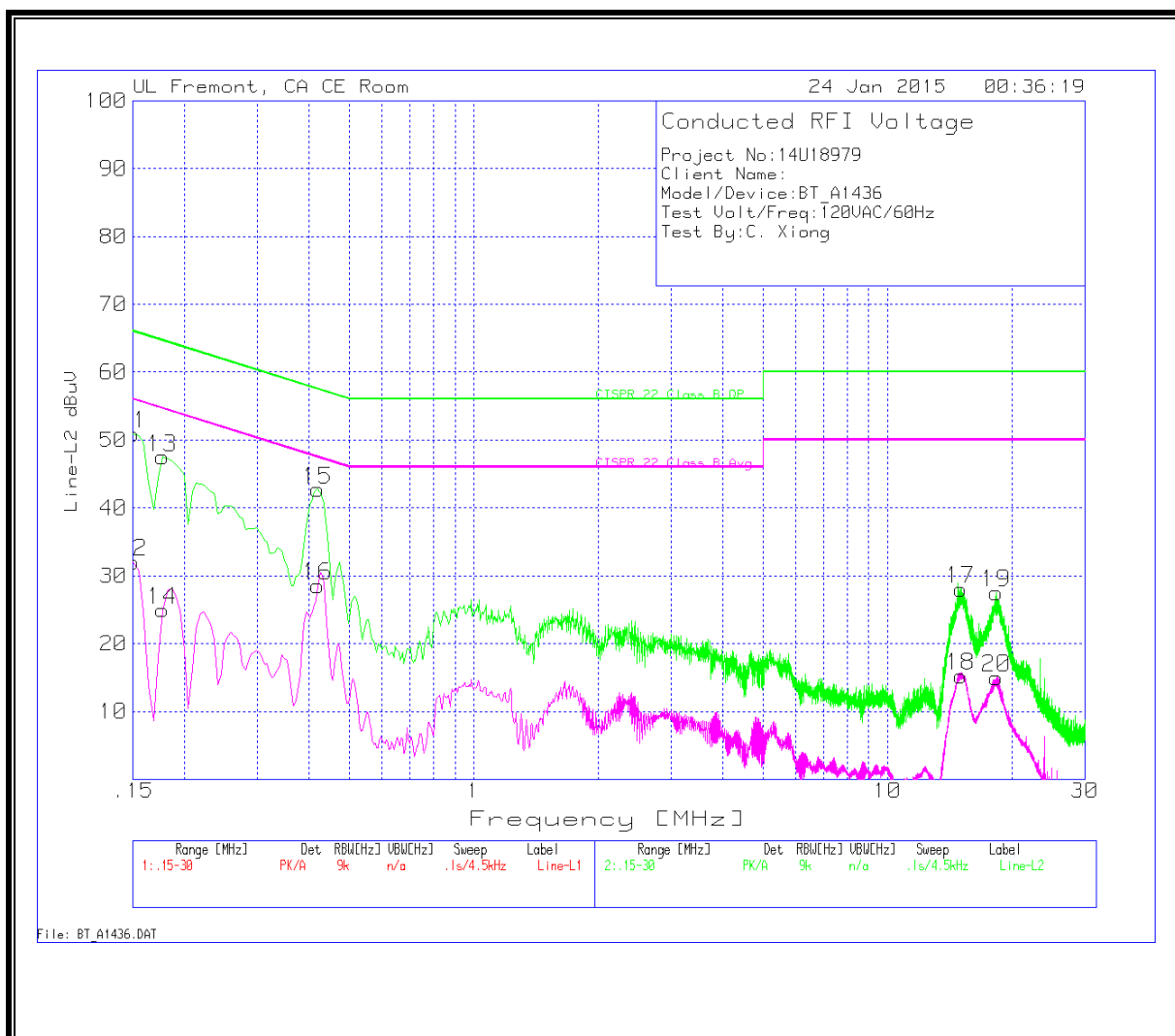
QP - Quasi-Peak detector

AC/DC ADAPTER MODEL NUMBER: MD592LL/A

LINE 1 RESULT



LINE 2 RESULT



WORST EMISSIONS DATA

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	.15	47.88	PK	1.4	0	49.28	66	-16.72	-	-
2	.15	30.92	Av	1.4	0	32.32	-	-	56	-23.68
3	.177	45.04	PK	1.1	0	46.14	64.6	-18.46	-	-
4	.177	24.77	Av	1.1	0	25.87	-	-	54.6	-28.73
5	.42	42.84	PK	.4	0	43.24	57.4	-14.16	-	-
6	.42	28.73	Av	.4	0	29.13	-	-	47.4	-18.27
7	15.2925	27.28	PK	.3	.2	27.78	60	-32.22	-	-
8	15.2925	15.17	Av	.3	.2	15.67	-	-	50	-34.33
9	18.6675	27.01	PK	.3	.2	27.51	60	-32.49	-	-
10	18.6675	14.66	Av	.3	.2	15.16	-	-	50	-34.84

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)
11	.15	49.44	PK	1.5	0	50.94	66	-15.06	-	-
12	.15	30.58	Av	1.5	0	32.08	-	-	56	-23.92
13	.177	46.27	PK	1.2	0	47.47	64.6	-17.13	-	-
14	.177	23.79	Av	1.2	0	24.99	-	-	54.6	-29.61
15	.42	42.29	PK	.4	0	42.69	57.4	-14.71	-	-
16	.42	28.17	Av	.4	0	28.57	-	-	47.4	-18.83
17	15.0405	27.58	PK	.3	.2	28.08	60	-31.92	-	-
18	15.0405	14.72	Av	.3	.2	15.22	-	-	50	-34.78
19	18.366	27.01	PK	.3	.2	27.51	60	-32.49	-	-
20	18.366	14.44	Av	.3	.2	14.94	-	-	50	-35.06

PK - Peak detector
Av - average detection