



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

CERTIFICATION TEST REPORT

FOR

LTE PHONE BLUETOOTH, WLAN (2.4GHZ & 5GHZ) AND NFC

MODEL NUMBER: LG-D500, LGD500, D500, LGMS500, LG-MS500, MS500

FCC ID: ZNFD500

REPORT NUMBER: 13U15216-3

ISSUE DATE: June 24, 2013

Prepared for
**LG ELECTRONICS MOBILECOMM U.S.A., INC.
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NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
--	06/24/13	Initial Issue	P. Kim

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: LG ELECTRONICS MOBILECOMM U.S.A., INC.
1000 SYLVAN AVE.
ENGLEWOODS CLIFFS, NJ 07632

EUT DESCRIPTION: LTE Phone Bluetooth, WLAN(2.4GHz & 5GHz) and NFC

MODEL: LG-D500, LGD500, D500, LGMS500, LG-MS500, MS500

SERIAL NUMBER: 303KPHG337169

DATE TESTED: APRIL 22 ~ MAY 14, 2013

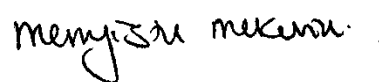
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Pass
INDUSTRY CANADA RSS-210 Issue 8 Annex 8	Pass
INDUSTRY CANADA RSS-GEN Issue 3	Pass

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

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

Approved & Released For
UL Verification Services Inc. By:

Tested By:



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WiSE PROGRAM MANAGER
UL Verification Services Inc.

MENGISTU MEKURIA
WiSE ENGINEER
UL Verification Services Inc.

2. TEST METHODOLOGY

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

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA.

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

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

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

4.3. MEASUREMENT UNCERTAINTY

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

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

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

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is LTE phone supports BLUETOOTH, WLAN (2.4GHZ & 5GHZ) AND NFC

5.2. MAXIMUM OUTPUT POWER

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

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
2402 - 2480	Basic GFSK	11.56	14.32
2402 - 2480	Enhanced 8PSK	10.96	12.47

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a Planar Inverted F Antenna, with a maximum gain of 1.04 dBi.

5.4. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was 4.1.2
The test utility software used during testing was D500_LAP8930JR130328

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

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter	LG	MCS-01WR	RB320071516	DoC
Earphone	Cresyn	EAB62410801	N/A	N/A

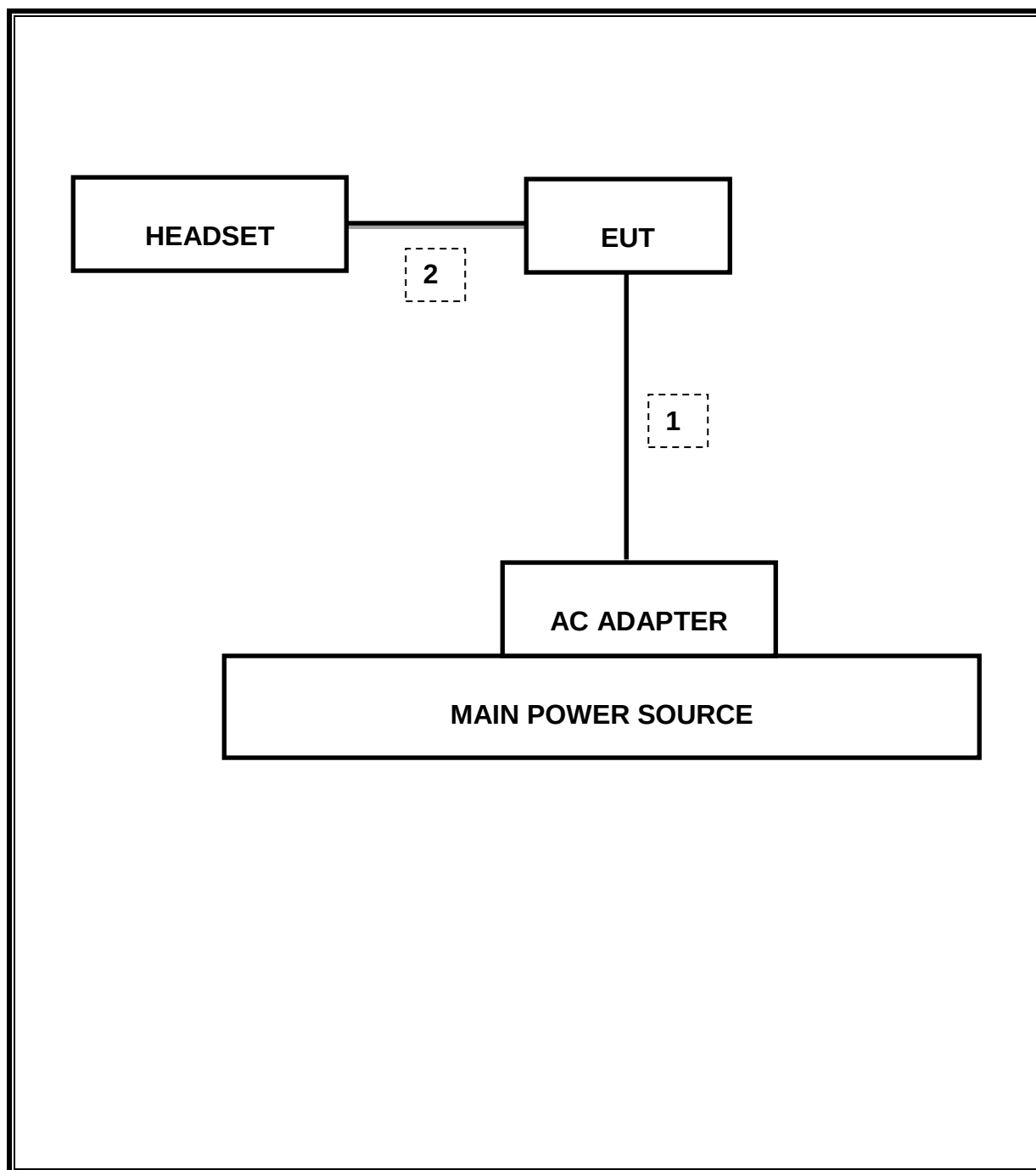
I/O CABLES

Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC Power	1	Mini-USB	Shielded	1.2m	N/A
2	Audio	1	Mini-Jack	Unshielded	1m	N/A

TEST SETUP

The EUT is continuously communicating to the Bluetooth tester during the tests.
EUT was set in the Hidden menu mode to enable BT communications.

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

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

Test Equipment List				
Description	Manufacturer	Model	Asset	Cal Due
Antenna, Biconolog, 30MHz-1 GHz	Sunol Sciences	JB1	C01171	02/13/14
Antenna, Horn, 18GHz	EMCO	3115	C00783	10/25/13
Antenna, Horn, 25.5 GHz	ARA	MWH-1826/B	C00980	11/14/13
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00580	01/28/14
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01052	10/22/13
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01069	12/20/13
CBT Bluetooth Tester	R & S	CBT	None	05/15/13
Peak Power Meter	Agilent / HP	E4416A	C00963	12/13/13
Peak / Average Power Sensor	Agilent / HP	E9327A	C00964	12/13/13
LISN, 30 MHz	FCC	50/250-25-2	C00626	01/14/14
Reject Filter, 2.4GHz	Micro-Tronics	BRM50702	N02684	CNR

7. RADIATED TEST RESULTS

7.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-210 Clause 2.6 (Transmitter)

IC RSS-GEN Clause 6 (Receiver)

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

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

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

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

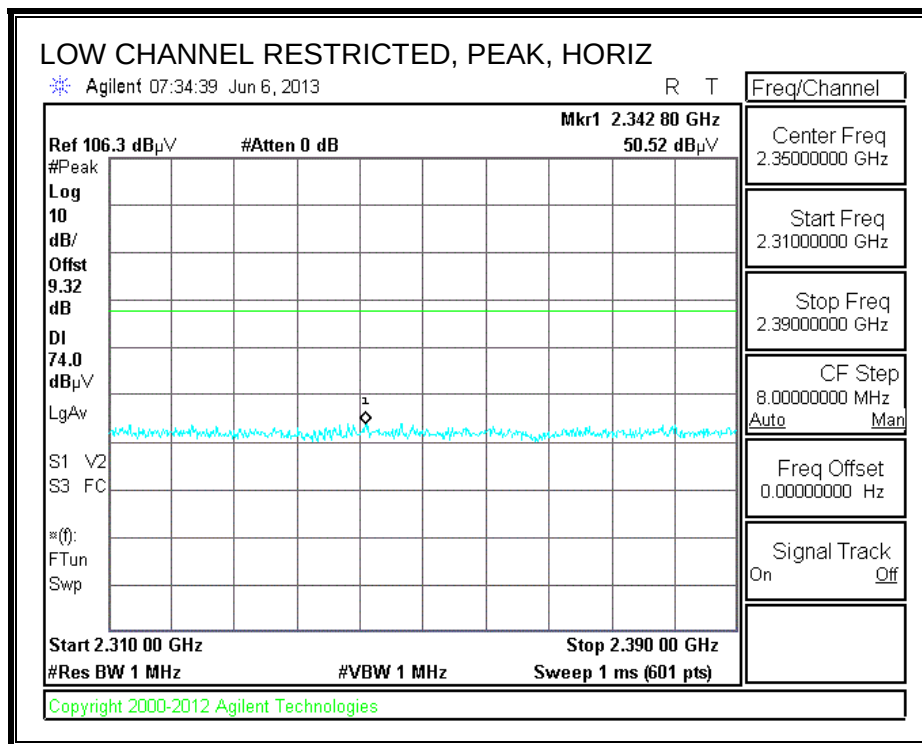
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

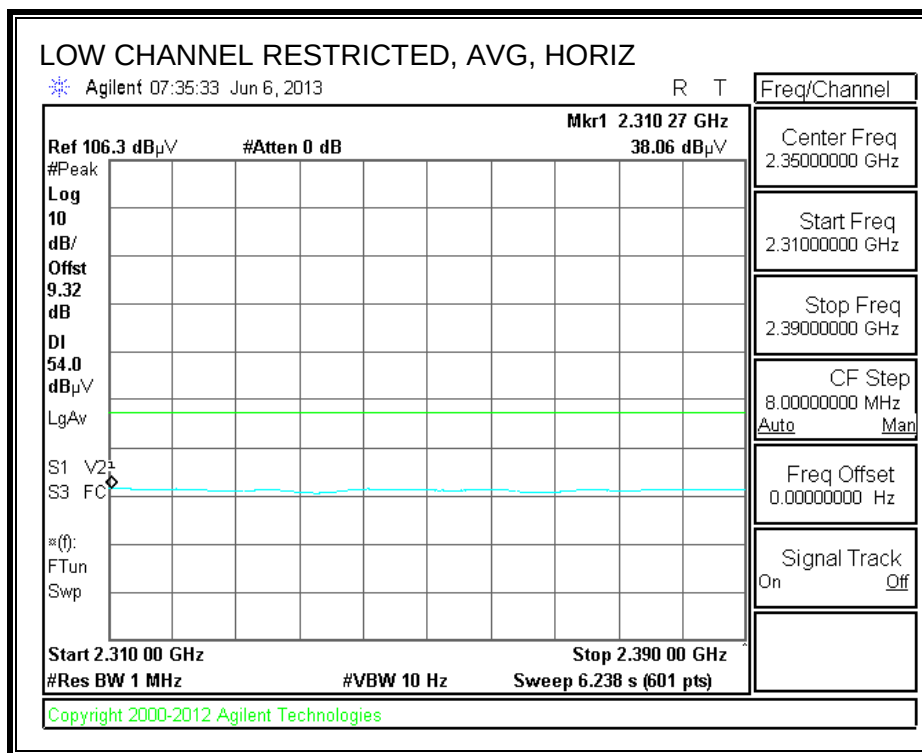
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

7.2. TRANSMITTER ABOVE 1 GHz

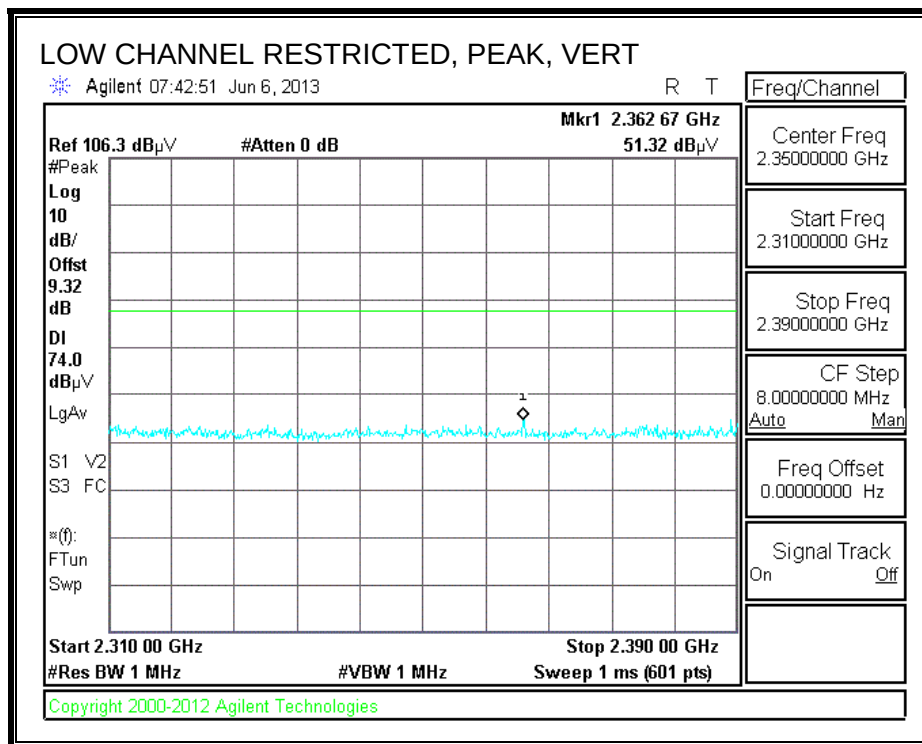
7.2.1. BASIC DATA RATE GFSK MODULATION

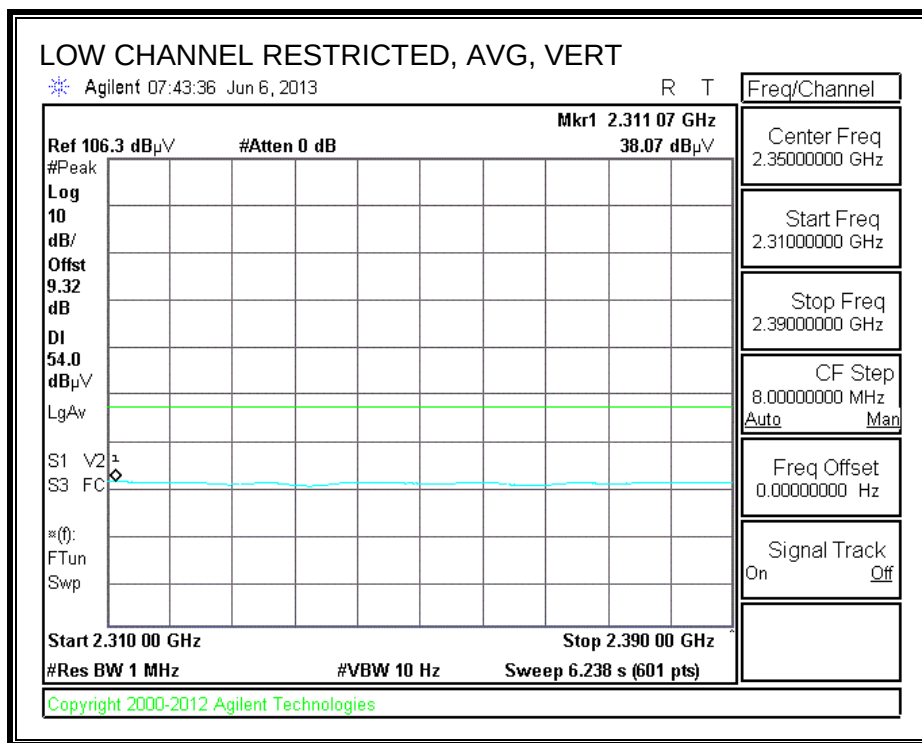
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



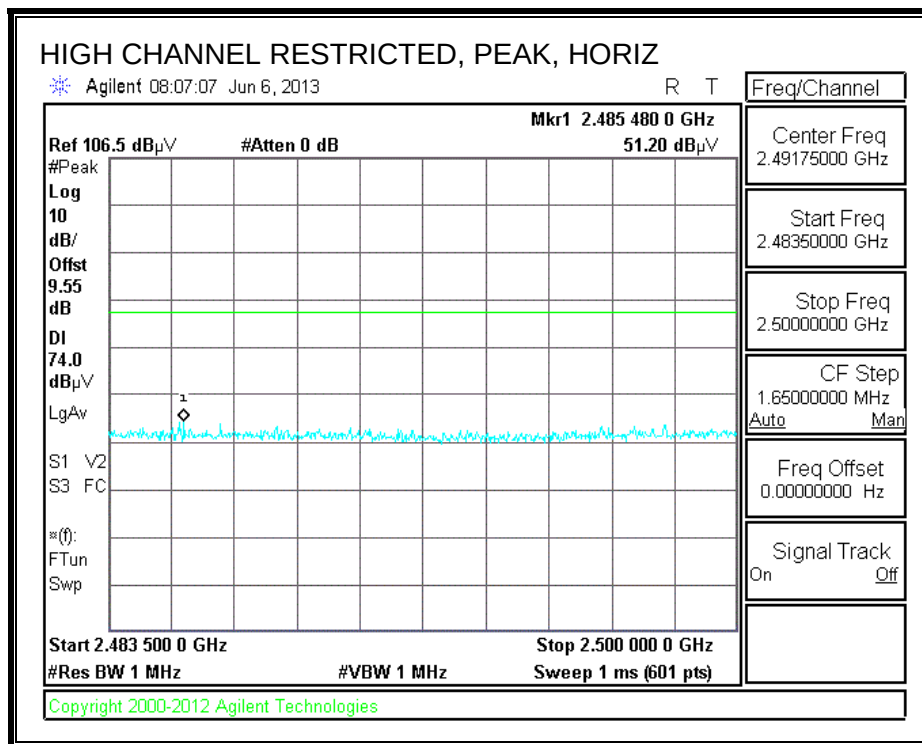


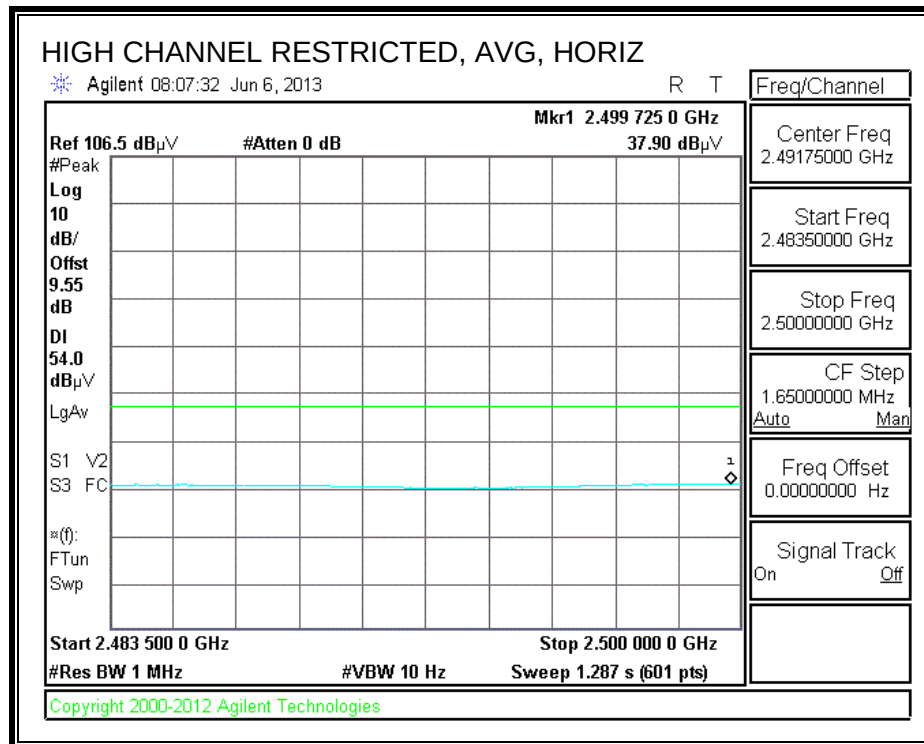
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



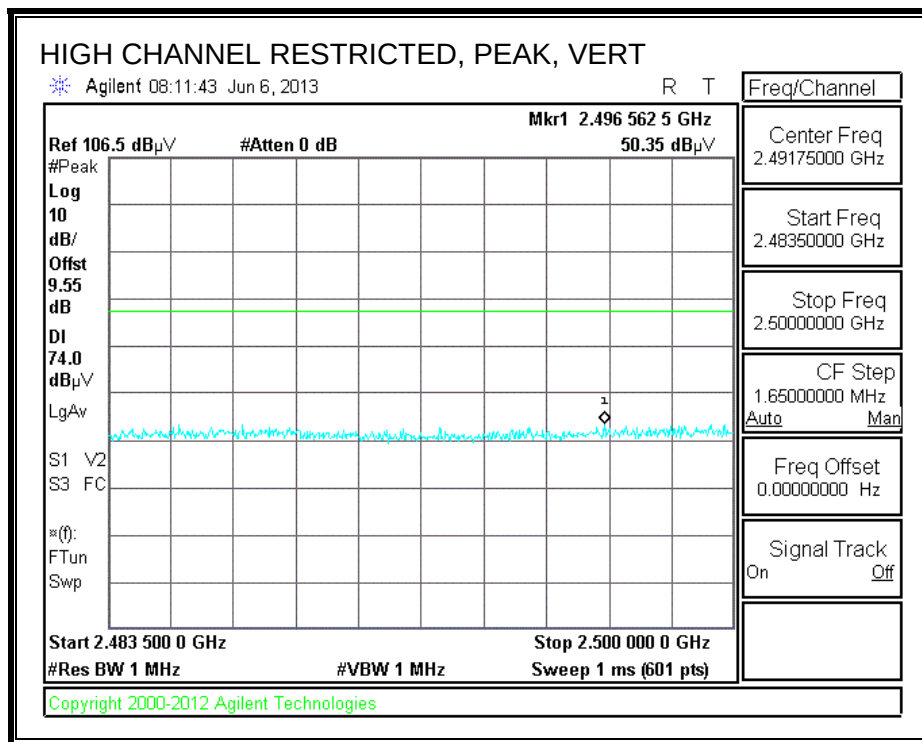


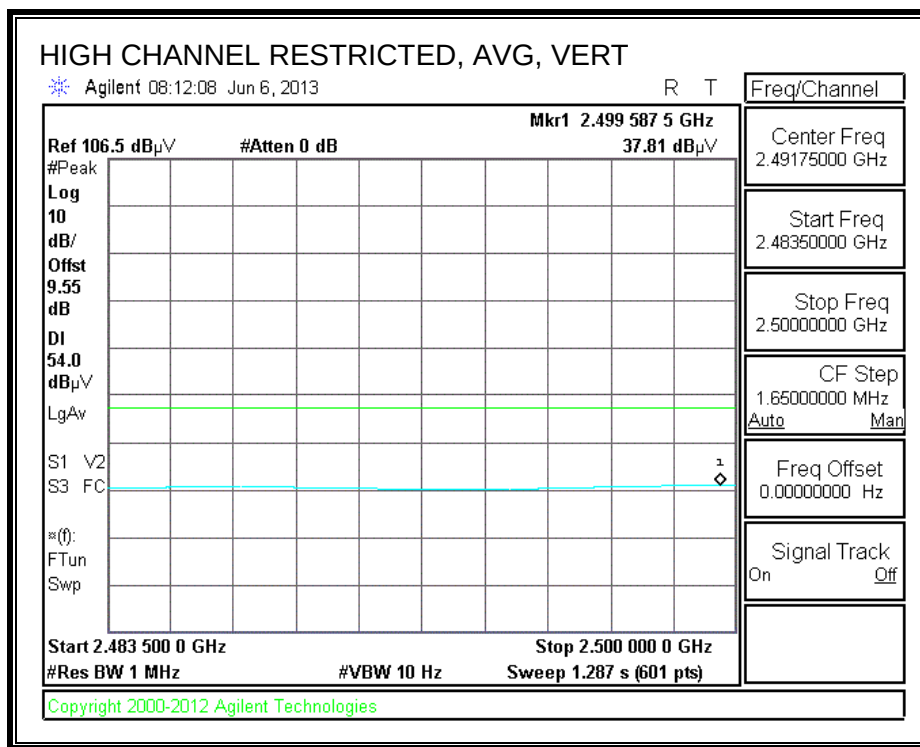
RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)





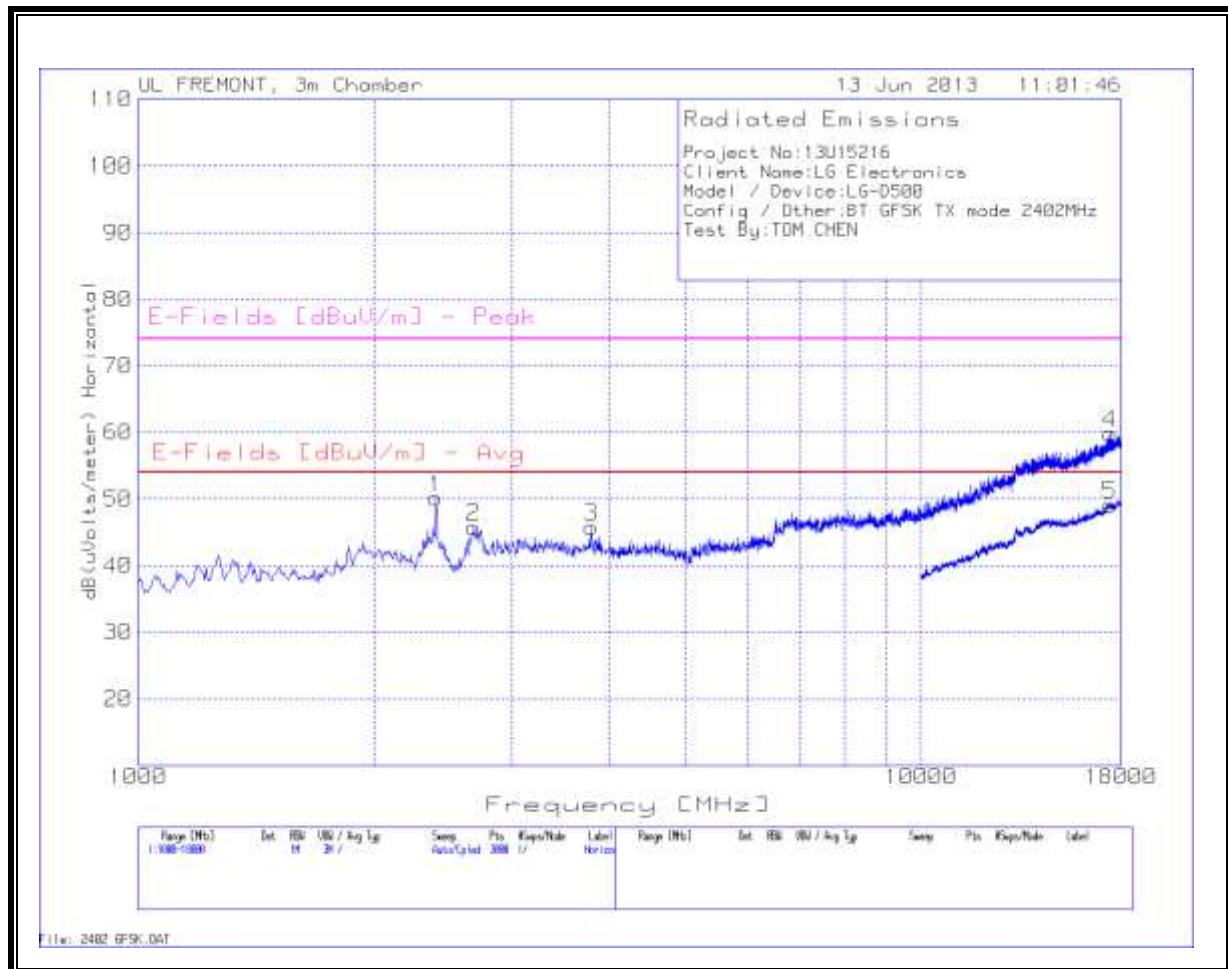
RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

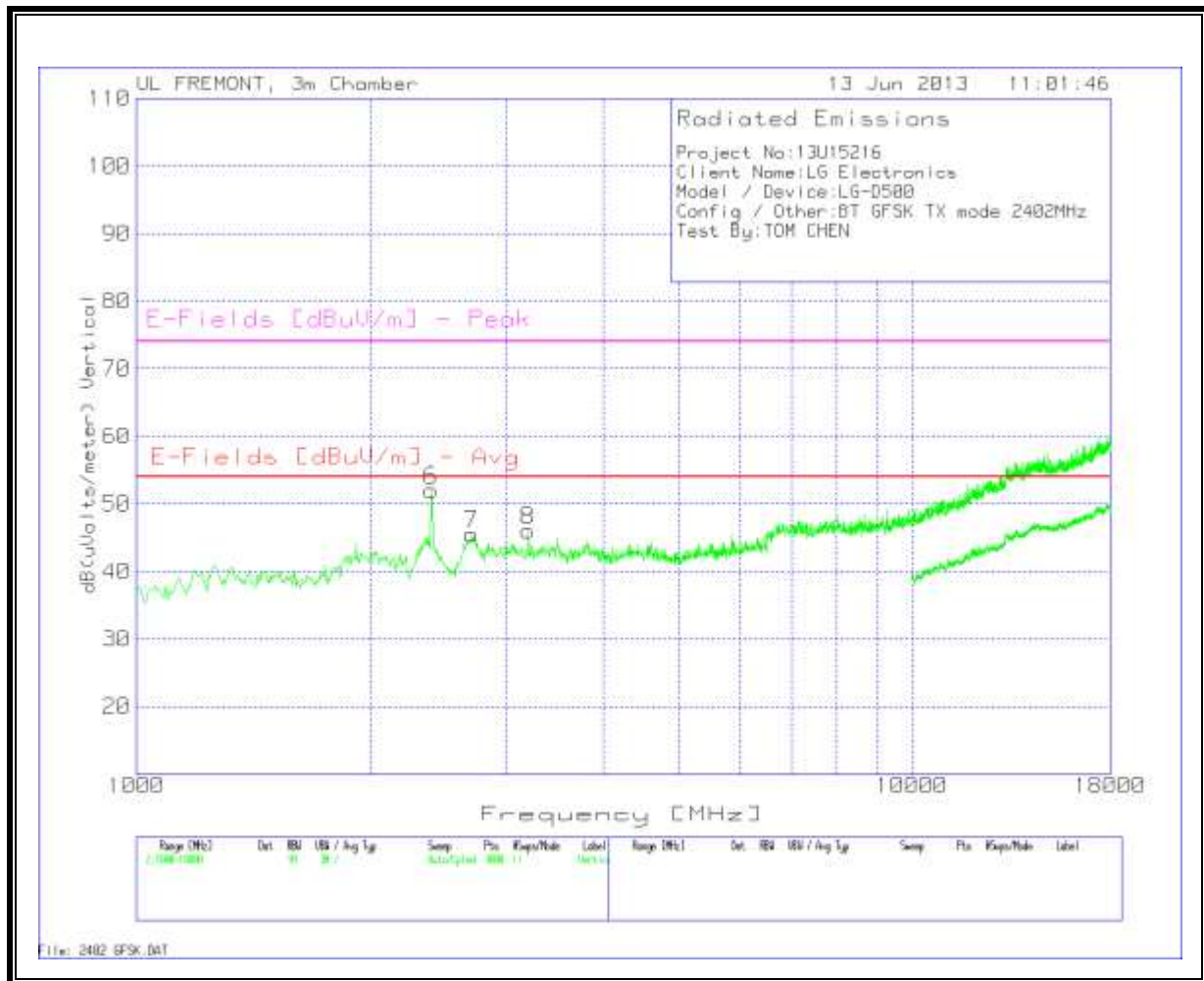




HARMONICS AND SPURIOUS EMISSIONS

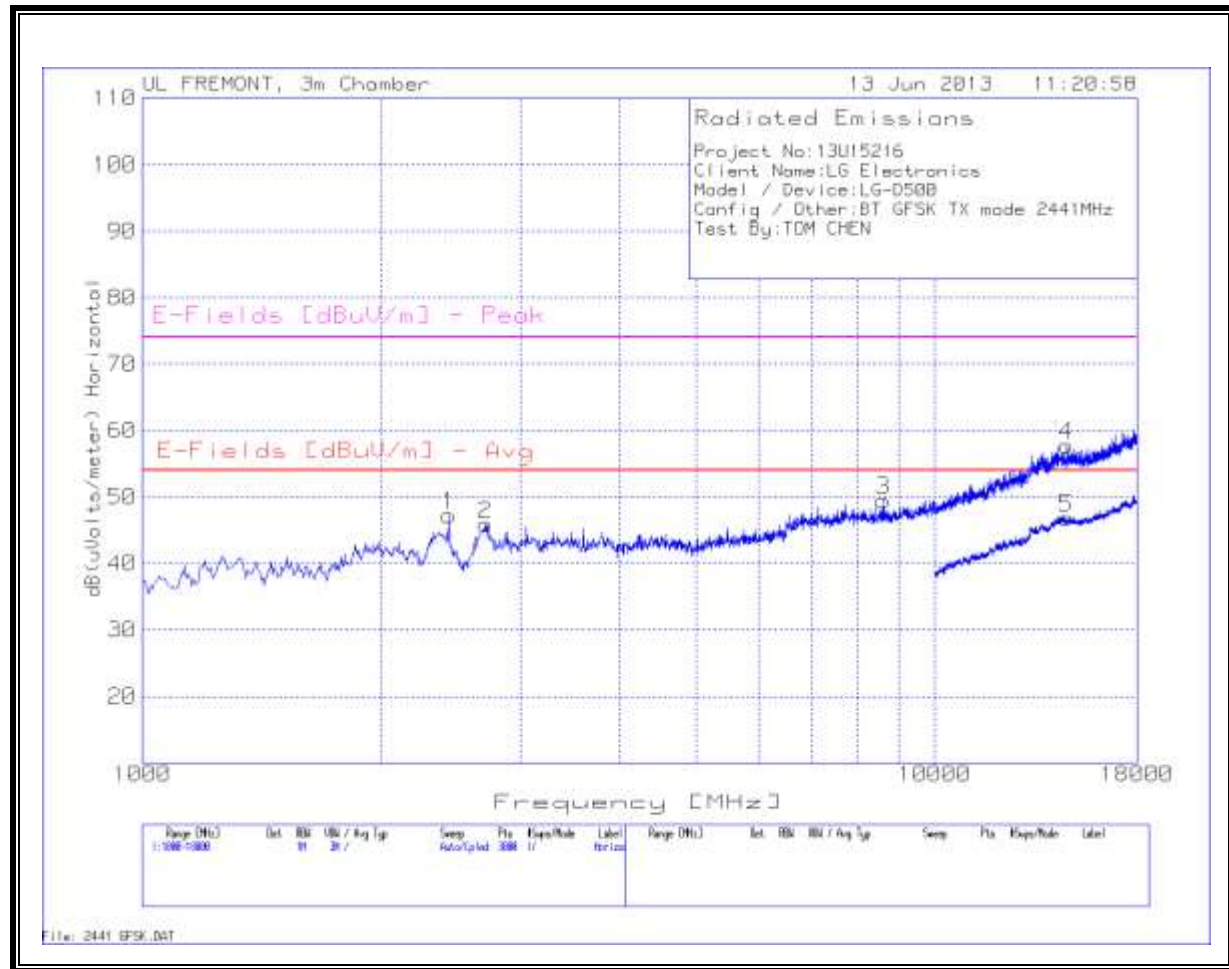
LOW CHANNEL
HORIZONTAL

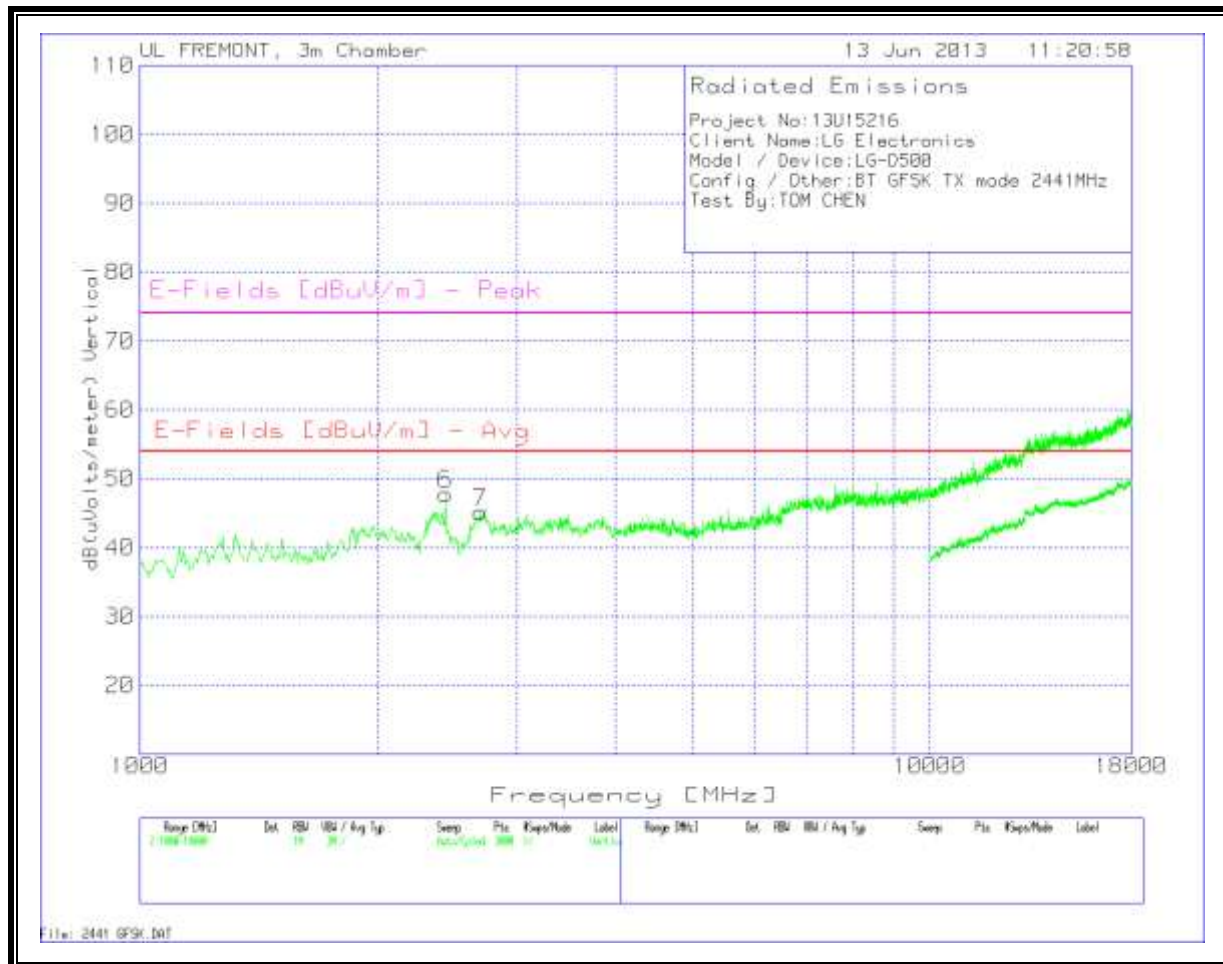




Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor [dB/m]	T34 Preamp/Cable Loss [dB]	T160 BRF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
Horizontal 1000 - 18000MHz													
*1	2398.734	46.82	PK	32.1	-29.7	0.9	50.12	53.97	-3.85	74	-23.88	100	Horz
2	2681.879	41.32	PK	32.6	-29	0.9	45.82	53.97	-8.15	74	-28.18	100	Horz
3	3791.805	38.74	PK	33.2	-26.5	0.4	45.84	53.97	-8.13	74	-28.16	100	Horz
4	17416.722	32.29	PK	41.3	-14.3	0.6	59.89	53.97	5.92	74	-14.11	201	Horz
Vertical 1000 - 18000MHz													
*6	2398.734	48.71	PK	32.1	-29.7	0.9	52.01	53.97	-1.96	74	-21.99	201	Vert
7	2704.53	41.07	PK	32.6	-29	0.9	45.57	53.97	-8.4	74	-28.43	201	Vert
8	3197.202	40.85	PK	32.9	-28.1	0.4	46.05	53.97	-7.92	74	-27.95	201	Vert
Horizontal 10000 - 18000MHz													
5	17444.278	21.42	PK	41.3	-14.2	0.6	49.12	53.97	-4.85	74	-24.88	201	Horz

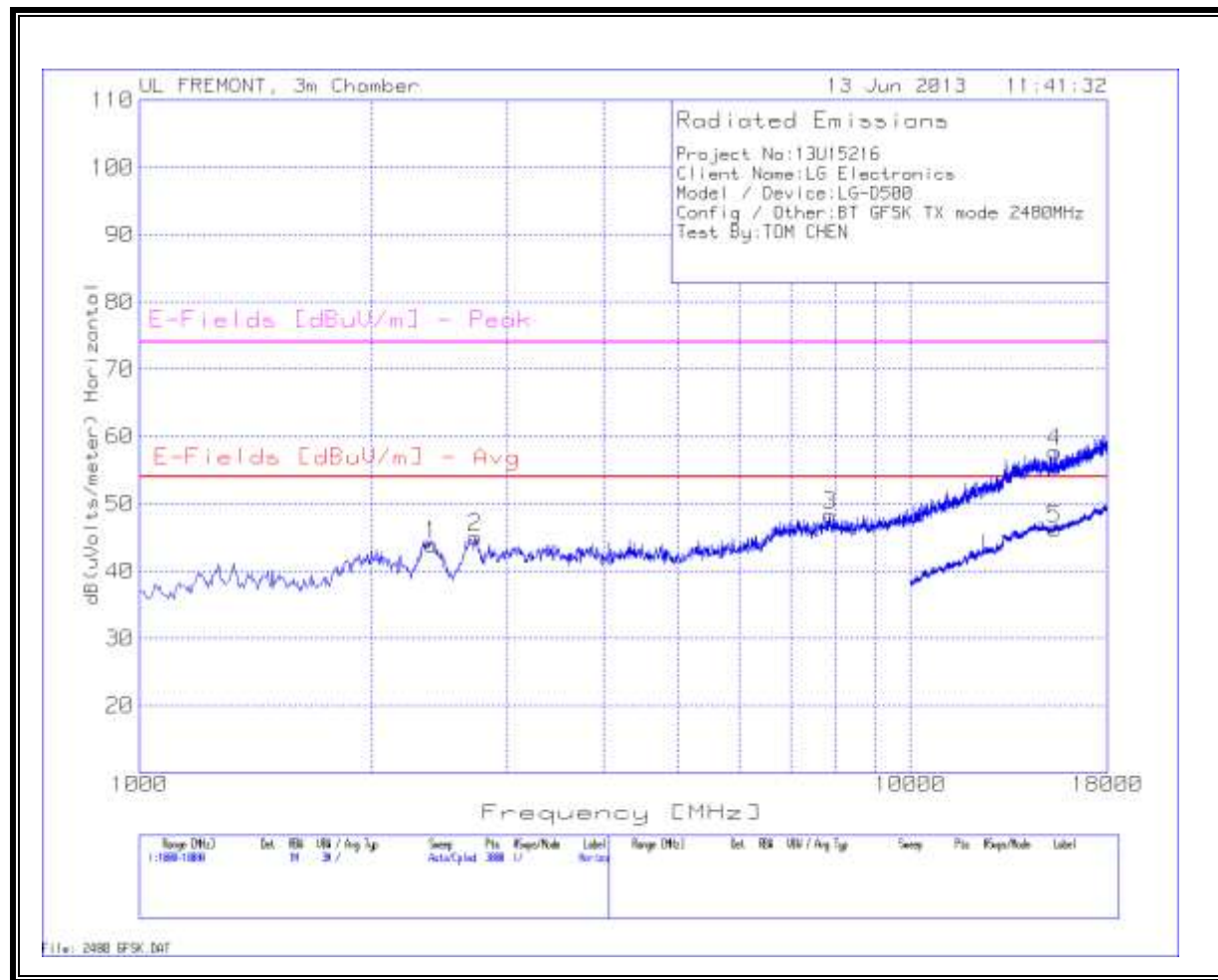
MID CHANNEL
HORIZONTAL

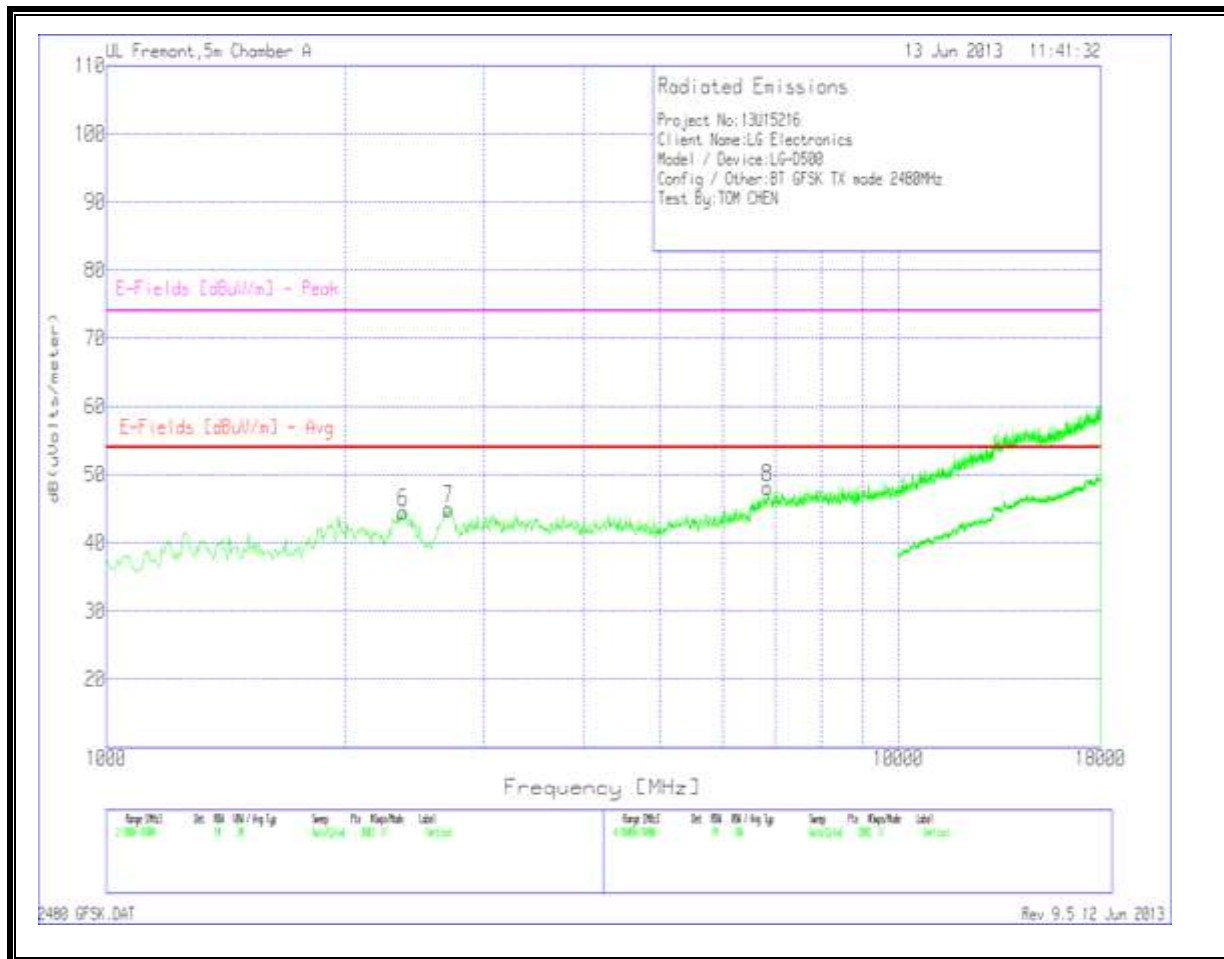




Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor [dB/m]	T34 Preamp/Cable Loss [dB]	T160 BRF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] Avg	Margin (dB)	E-Fields [dBuV/m] Peak	Margin (dB)	Height [cm]	Polarity
Horizontal 1000 - 18000MHz													
1	2438.374	43.74	PK	32.2	-29.6	0.9	47.24	53.97	-6.73	74	-26.76	100	Horz
2	2710.193	41.38	PK	32.6	-29	0.9	45.88	53.97	-8.09	74	-28.12	100	Horz
3	8605.263	35.44	PK	35.8	-22.1	0.4	49.54	53.97	-4.43	74	-24.46	201	Horz
4	14681.546	33.71	PK	39.7	-16.1	0.4	57.71	53.97	3.74	74	-16.29	100	Horz
Vertical 1000 - 18000MHz													
6	2438.374	44.24	PK	32.2	-29.6	0.9	47.74	53.97	-6.23	74	-26.26	99	Vert
7	2693.205	40.64	PK	32.6	-29	0.9	45.14	53.97	-8.83	74	-28.86	99	Vert
Horizontal 10000 - 18000MHz													
5	14661.669	22.89	PK	39.7	-16.1	0.4	46.89	53.97	-7.08	74	-27.11	99	Horz

HIGH CHANNEL
HORIZONTAL

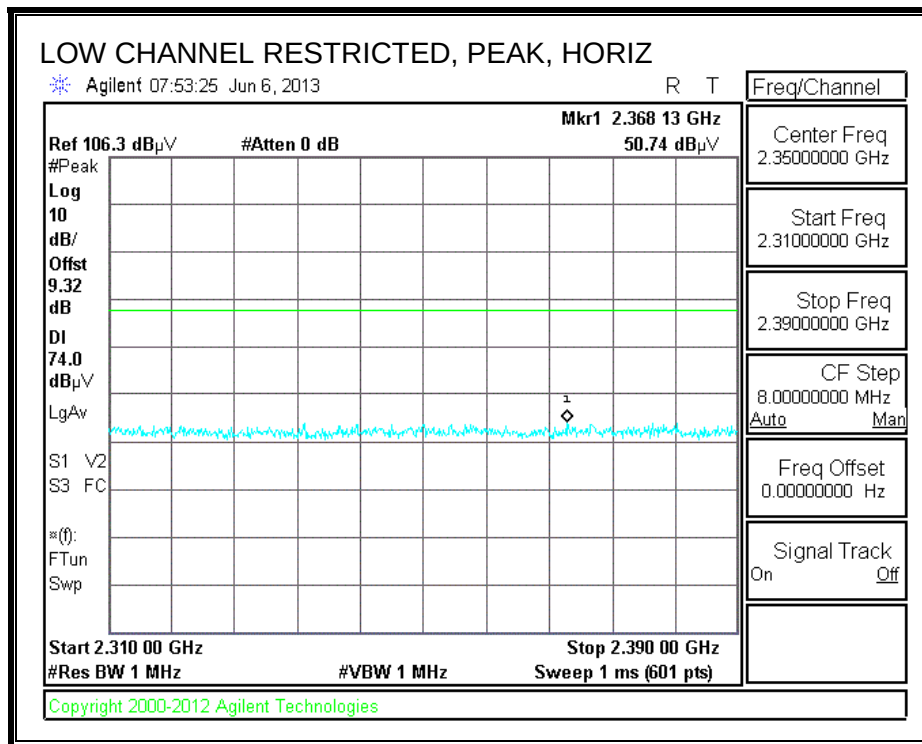


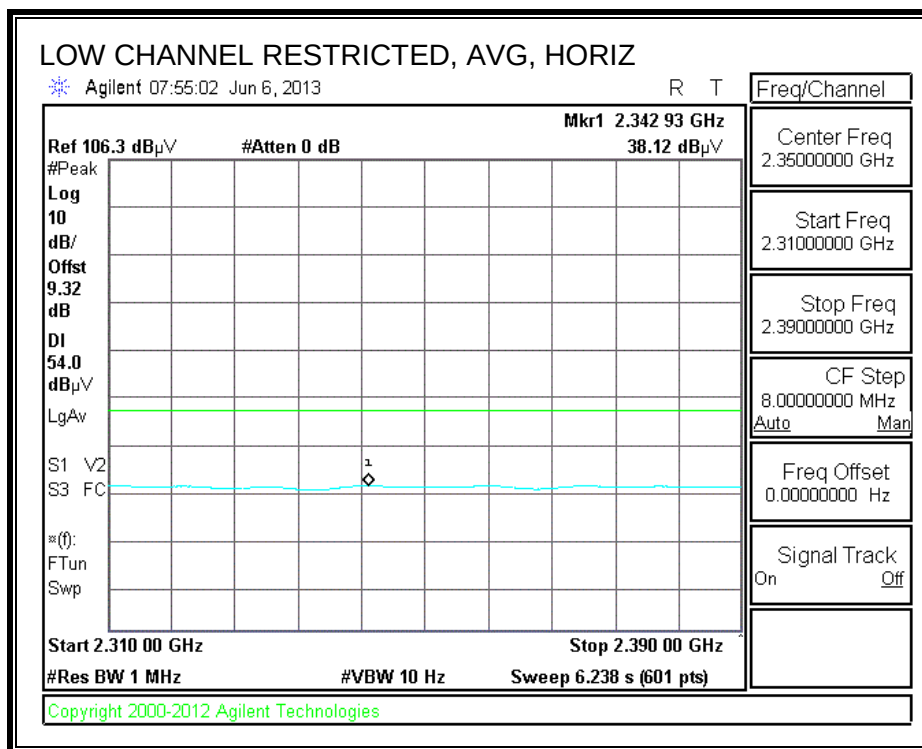


Horizontal 1000 - 18000MHz													
Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor [dB/m]	T34 Preamp/ Cable Loss [dB]	T160 BRF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
1	2393.071	40.64	PK	32.1	-29.7	0.9	43.94	53.97	-10.03	74	-30.06	201	Horz
2	2727.182	40.53	PK	32.6	-29	0.9	45.03	53.97	-8.94	74	-28.97	201	Horz
3	7857.761	34.77	PK	35.8	-22.6	0.3	48.27	53.97	-5.7	74	-25.73	201	Horz
4	15372.42	33.64	PK	40.1	-16.4	0.4	57.74	53.97	3.77	74	-16.26	99	Horz
Vertical 1000 - 18000MHz													
Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor [dB/m]	T34 Preamp/ Cable Loss [dB]	T160 BRF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
6	2370.42	41.3	PK	32	-29.7	0.9	44.5	53.97	-9.47	74	-29.5	99	Vert
7	2704.53	40.43	PK	32.6	-29	0.9	44.93	53.97	-9.04	74	-29.07	99	Vert
8	6832.778	35.5	PK	35.6	-23.3	0.3	48.1	53.97	-5.87	74	-25.9	99	Vert
Horizontal 10000 - 18000MHz													
Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor [dB/m]	T34 Preamp/ Cable Loss [dB]	T160 BRF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
5	15385.31	22.22	PK	40.1	-16.4	0.4	46.32	53.97	-7.65	74	-27.68	99	Horz

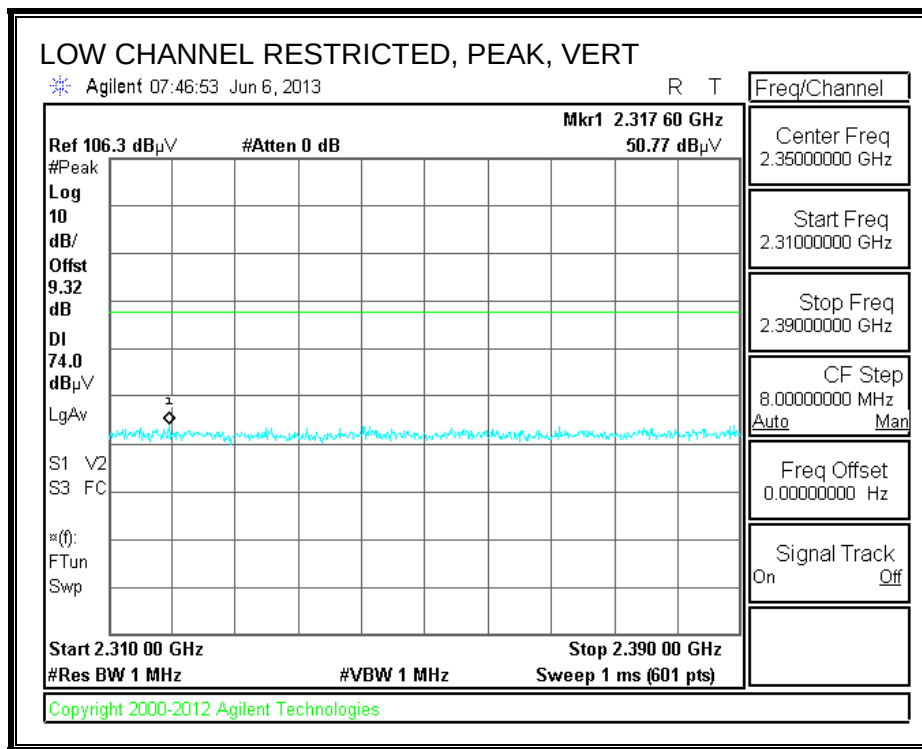
7.2.2. ENHANCED DATA RATE 8PSK MODULATION

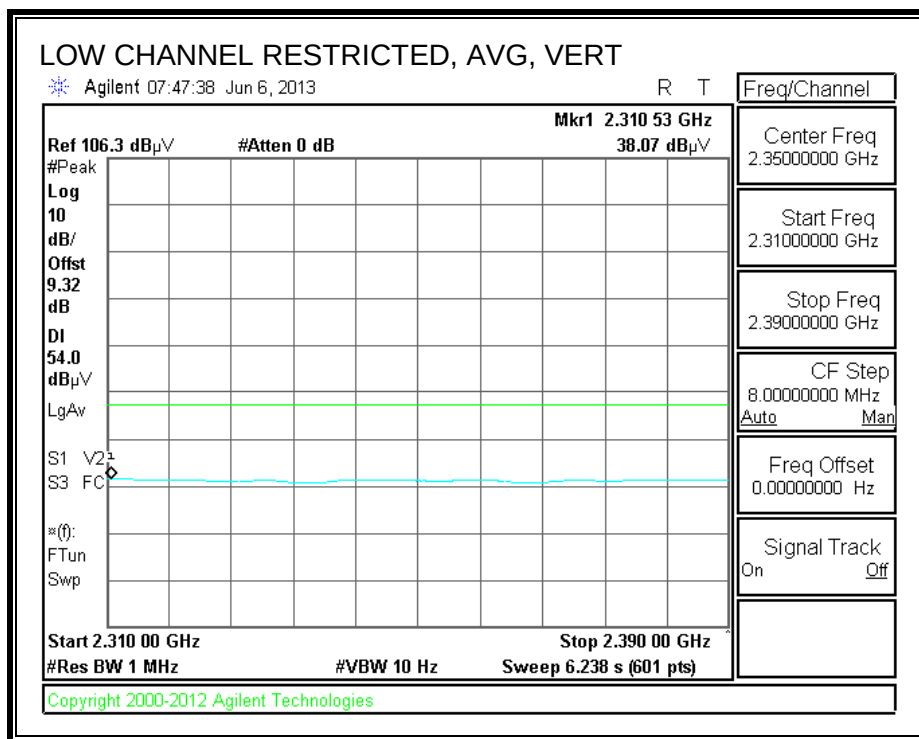
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



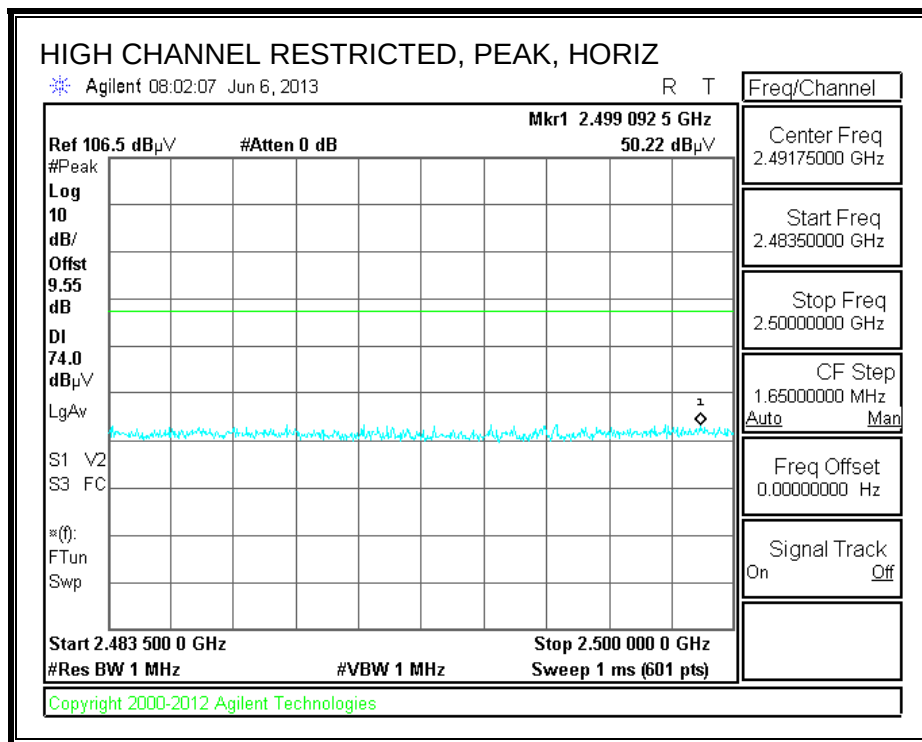


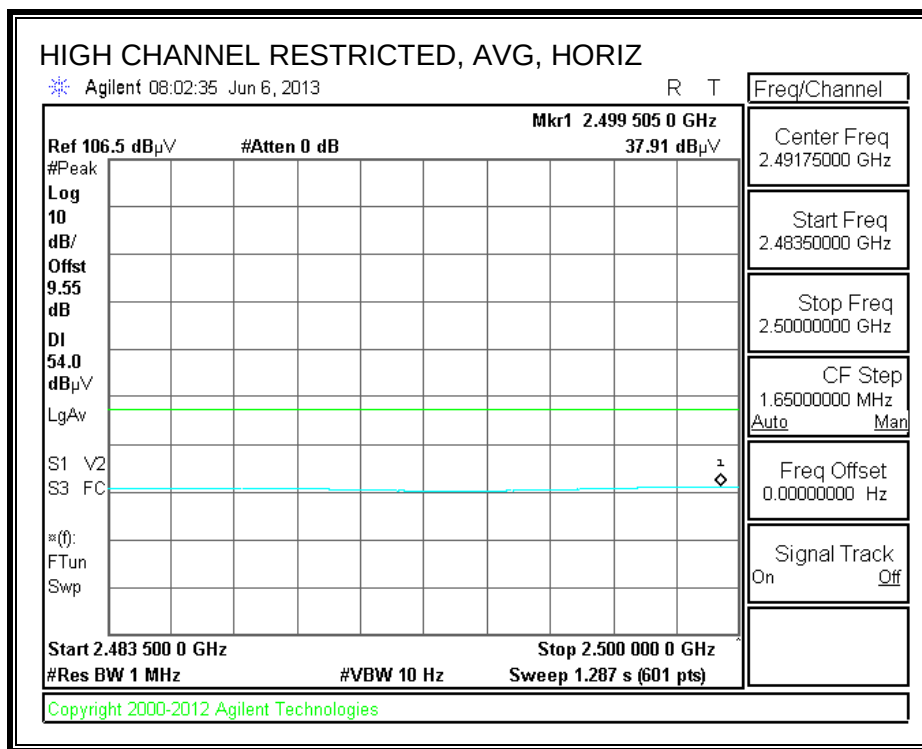
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



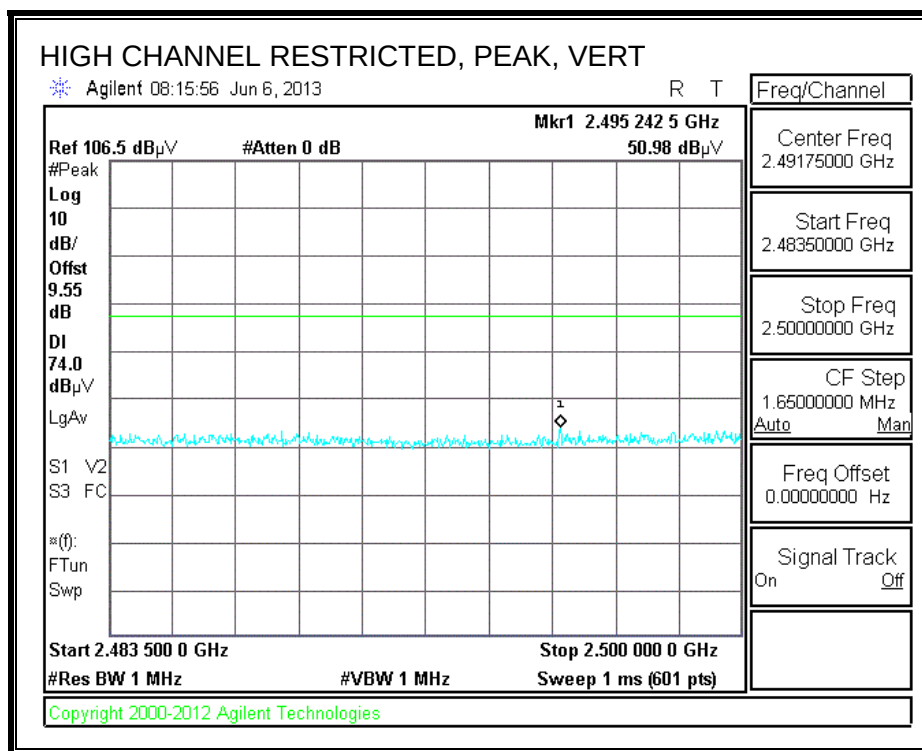


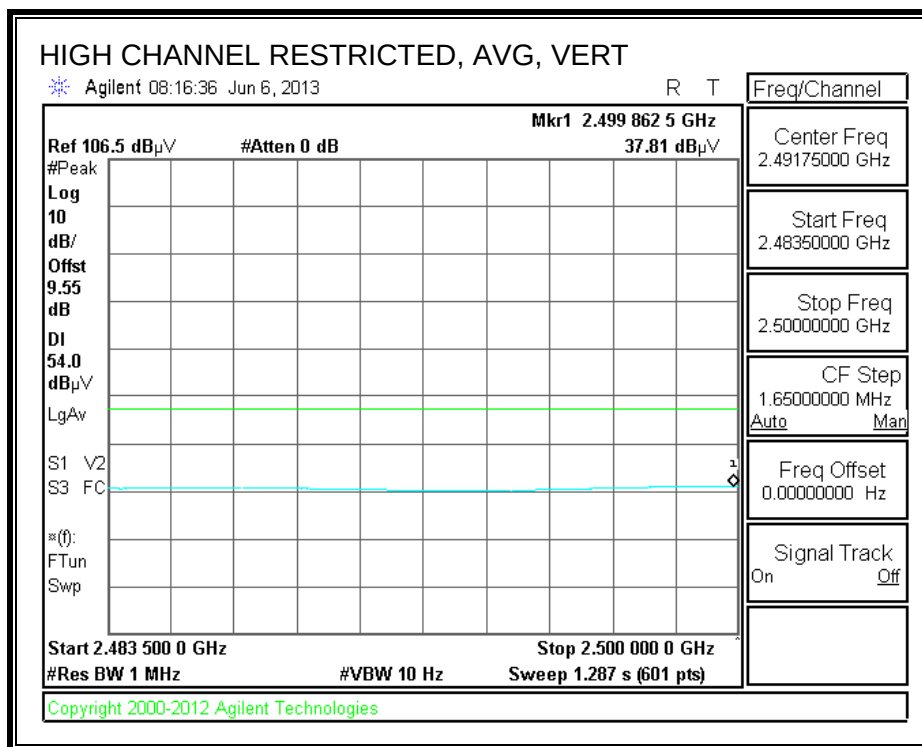
RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)





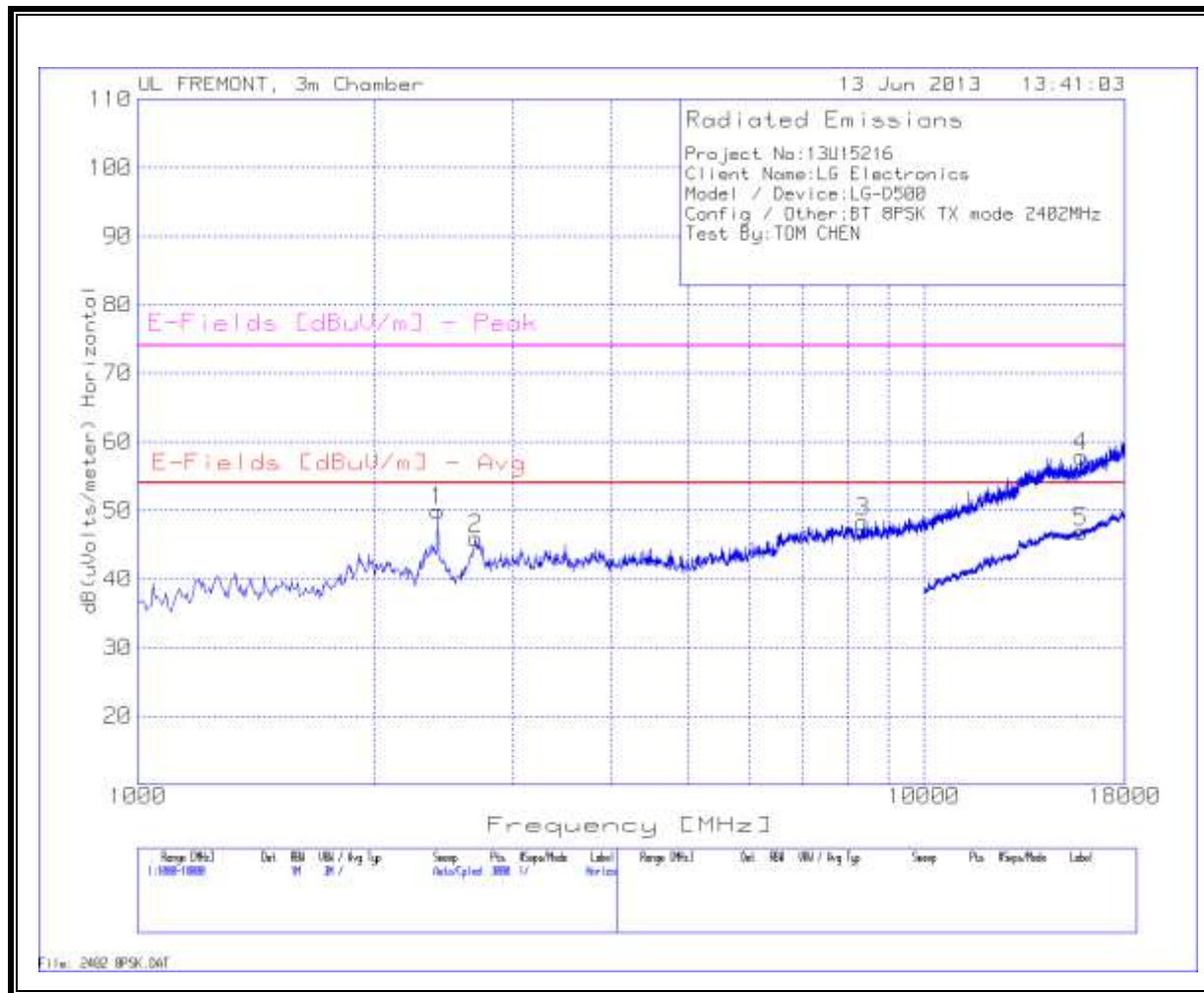
RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

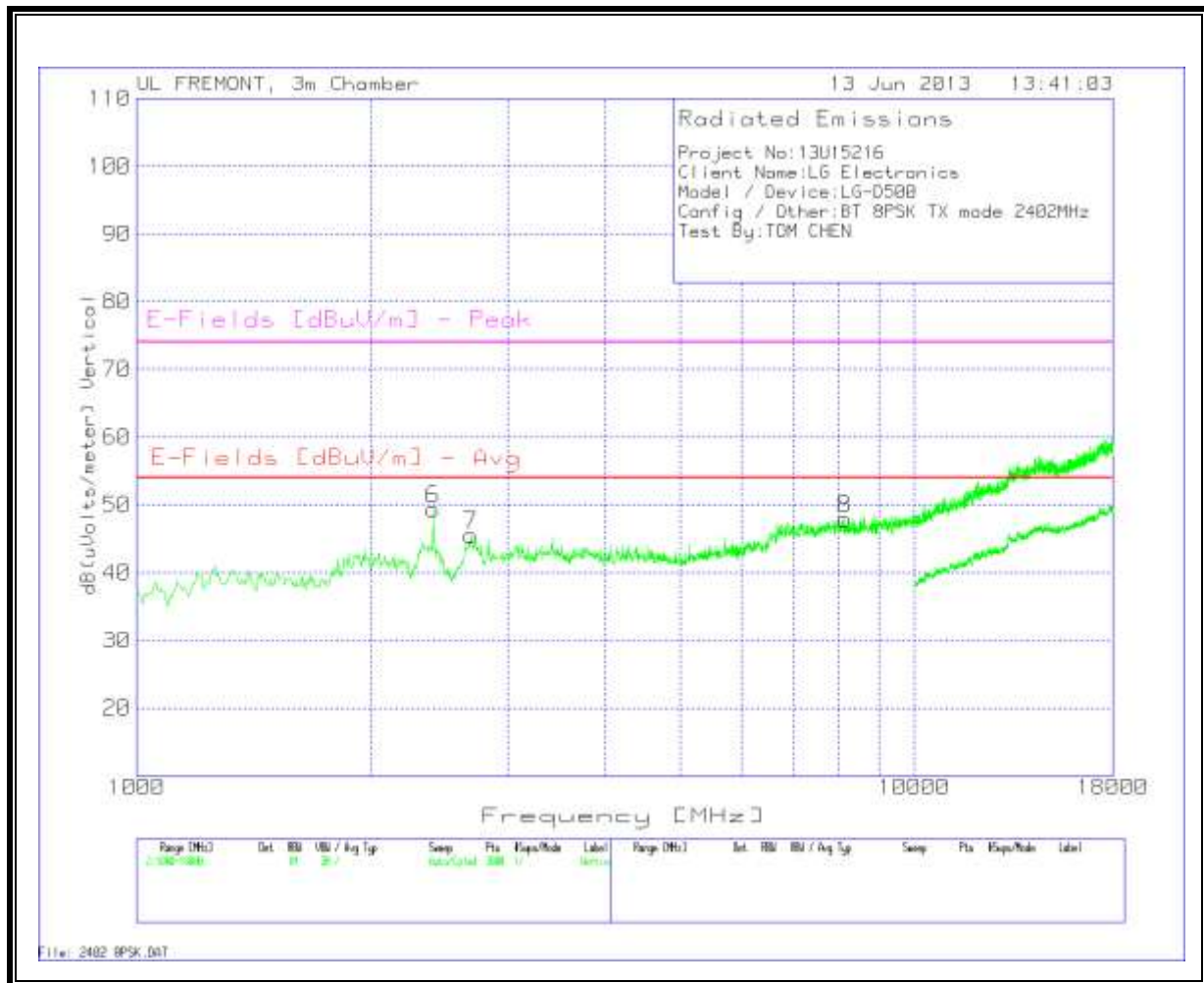




HARMONICS AND SPURIOUS EMISSIONS

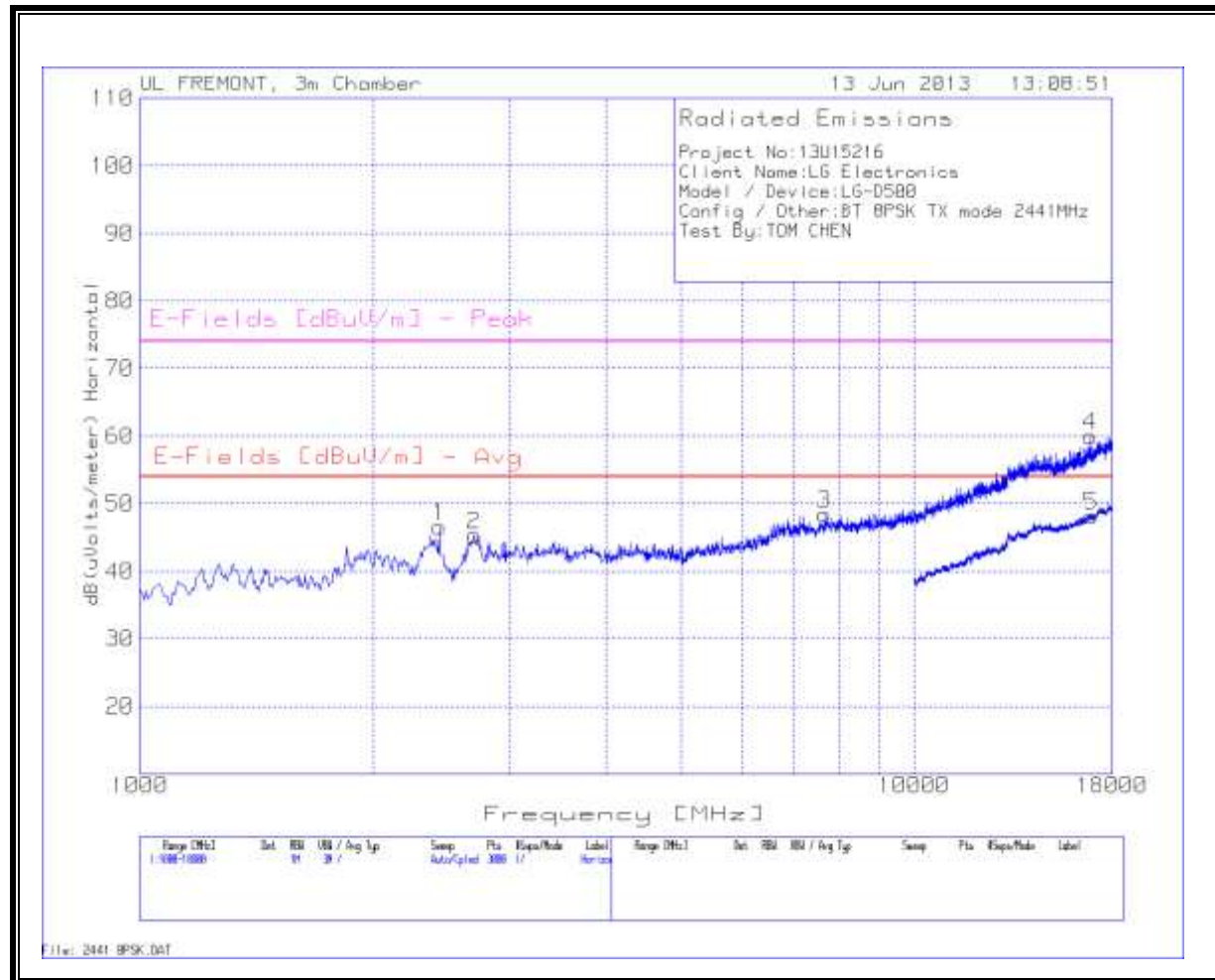
LOW CHANNEL
HORIZONTAL

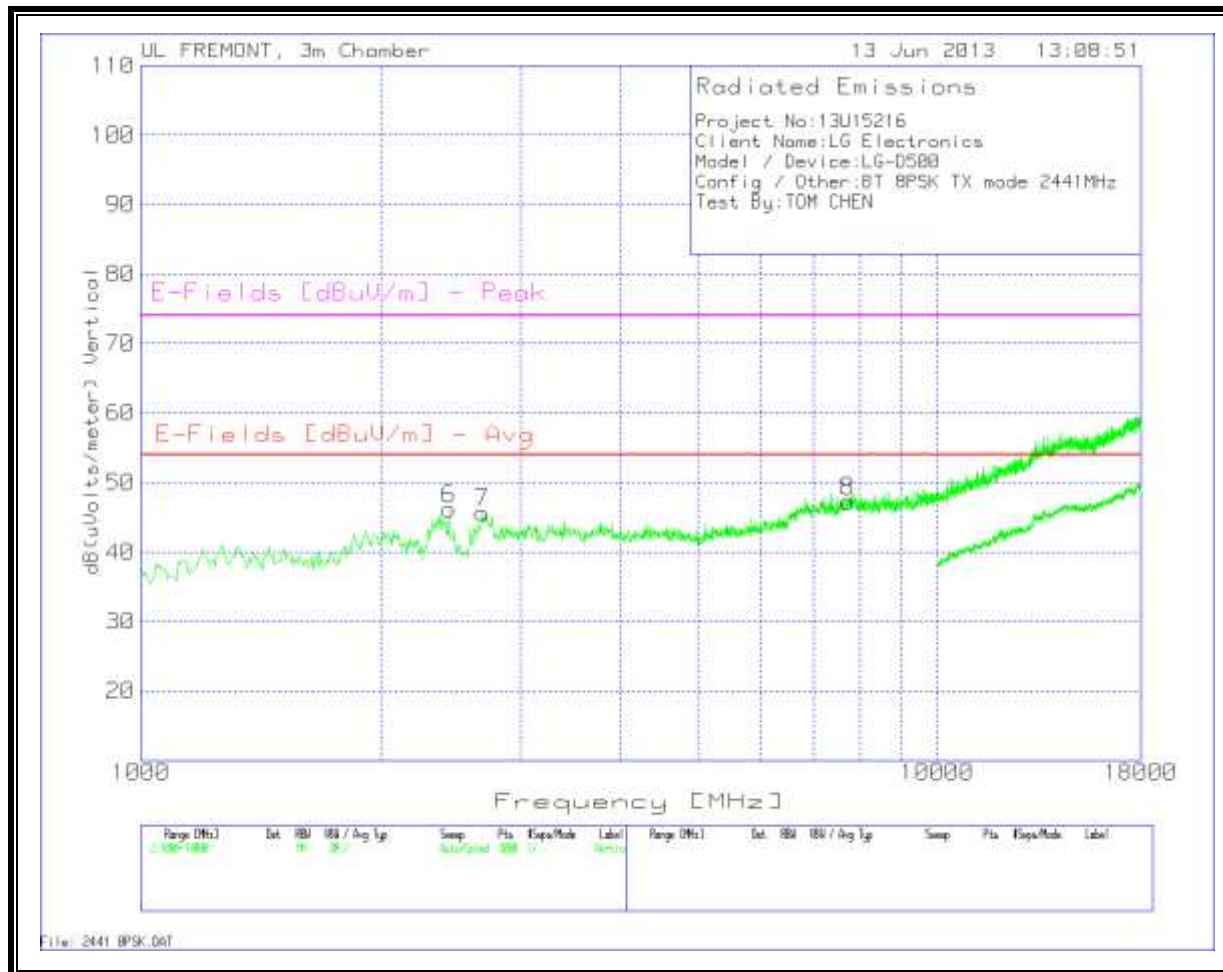




Horizontal 1000 - 18000MHz													
Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor [dB/m]	T34 Preamp/ Cable Loss [dB]	T160 BRF [dB]	dB(uV/s/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
1	2404.397	46.61	PK	32.1	-29.7	0.9	49.91	53.97	-4.06	74	-24.09	100	Horz
2	2687.542	41.45	PK	32.6	-29	0.9	45.95	53.97	-8.02	74	-28.05	201	Horz
3	8367.422	34.46	PK	35.8	-22.2	0.3	48.36	53.97	-5.61	74	-25.64	100	Horz
4	15848.1	33.52	PK	40.4	-16.4	0.4	57.92	53.97	3.95	74	-16.08	201	Horz
Vertical 1000 - 18000MHz													
Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor [dB/m]	T34 Preamp/ Cable Loss [dB]	T160 BRF [dB]	dB(uV/s/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
6	2404.397	46.14	PK	32.1	-29.7	0.9	49.44	53.97	-4.53	74	-24.56	201	Vert
7	2687.542	41.09	PK	32.6	-29	0.9	45.59	53.97	-8.38	74	-28.41	201	Vert
8	8146.569	34.15	PK	35.8	-22.3	0.3	47.95	53.97	-6.02	74	-26.05	99	Vert
Horizontal 10000 - 18000MHz													
Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor [dB/m]	T34 Preamp/ Cable Loss [dB]	T160 BRF [dB]	dB(uV/s/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
5	15853.07	22.36	PK	40.5	-16.4	0.4	46.86	53.97	-7.11	74	-27.14	201	Horz

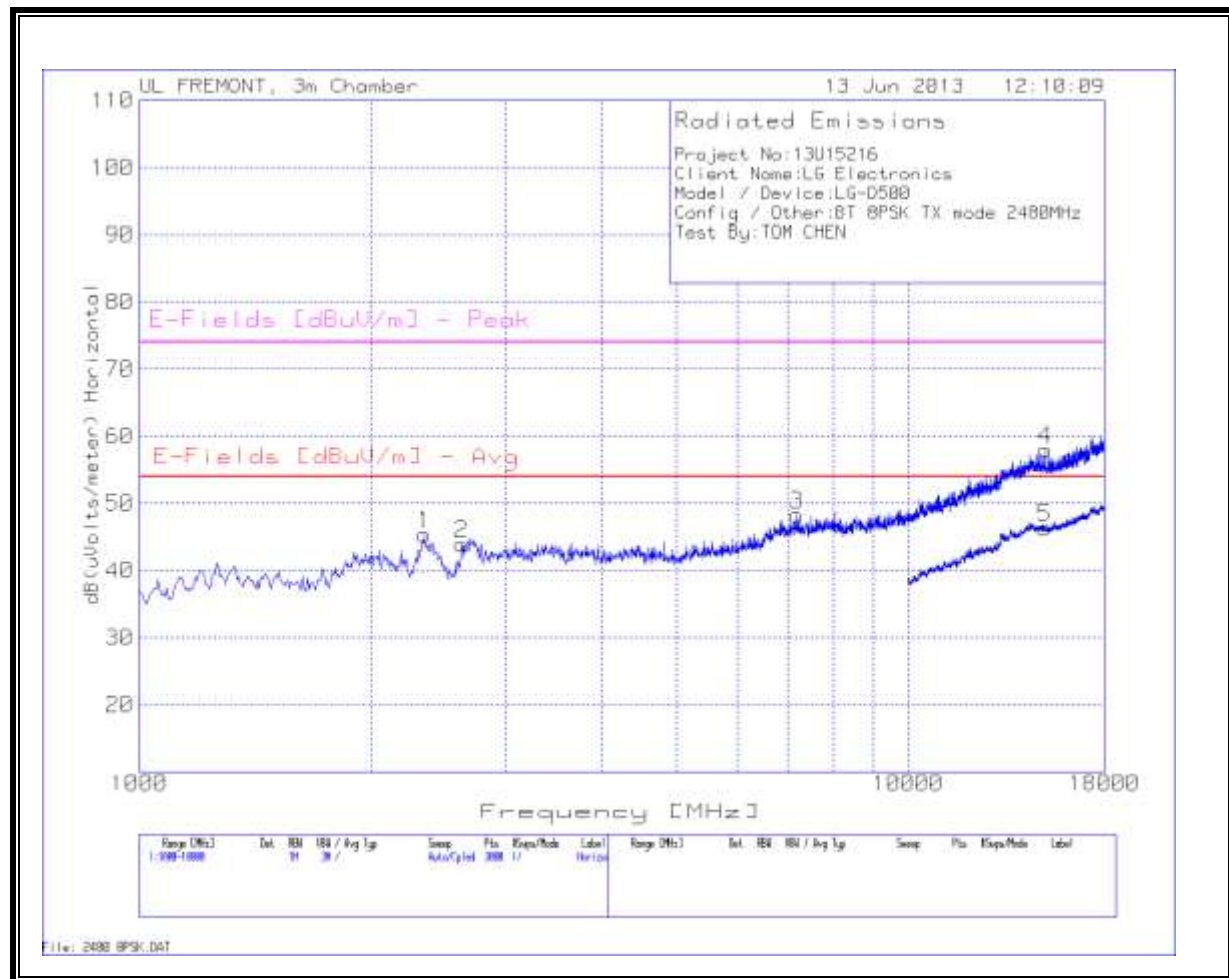
MID CHANNEL
HORIZONTAL

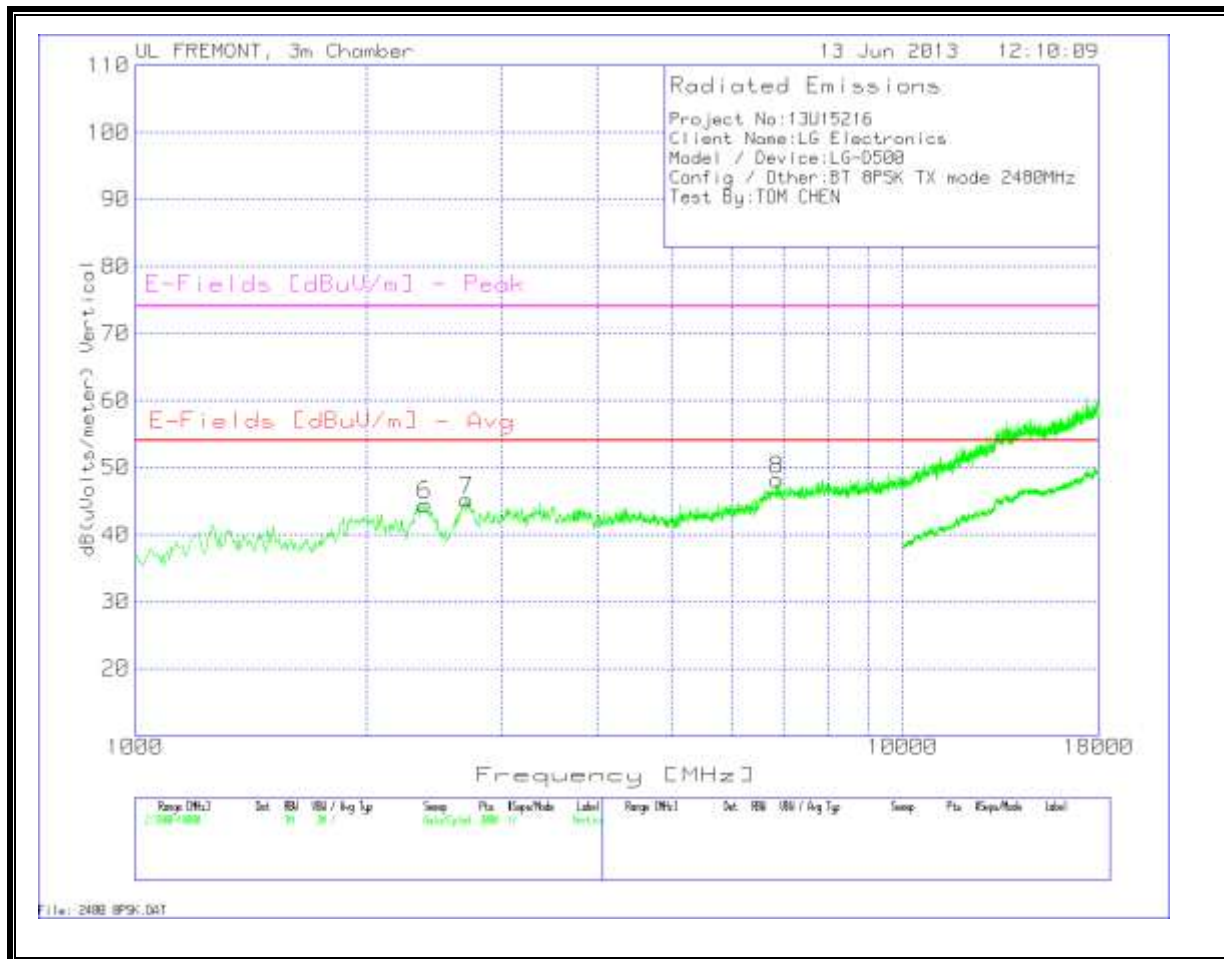




Horizontal 1000 - 18000MHz													
Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor [dB/m]	T34 Preamp/ Cable Loss [dB]	T160 BRF [dB]	dB(uV/s/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
1	2438.374	43.15	PK	32.2	-29.6	0.9	46.65	53.97	-7.32	74	-27.35	99	Horz
2	2704.53	40.85	PK	32.6	-29	0.9	45.35	53.97	-8.62	74	-28.65	200	Horz
3	7648.235	35.29	PK	35.8	-22.8	0.2	48.49	53.97	-5.48	74	-25.51	99	Horz
4	16907.06	33.44	PK	41.1	-14.9	0.4	60.04	53.97	6.07	74	-13.96	200	Horz
Vertical 1000 - 18000MHz													
Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor [dB/m]	T34 Preamp/ Cable Loss [dB]	T160 BRF [dB]	dB(uV/s/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
6	2438.374	42.73	PK	32.2	-29.6	0.9	46.23	53.97	-7.74	74	-27.77	201	Vert
7	2681.879	41.21	PK	32.6	-29	0.9	45.71	53.97	-8.26	74	-28.29	201	Vert
8	7721.852	33.96	PK	35.8	-22.7	0.2	47.26	53.97	-6.71	74	-26.74	99	Vert
Horizontal 10000 - 18000MHz													
Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor [dB/m]	T34 Preamp/ Cable Loss [dB]	T160 BRF [dB]	dB(uV/s/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
5	16916.54	21.44	PK	41.1	-14.8	0.4	48.14	53.97	-5.83	74	-25.86	201	Horz

HIGH CHANNEL
HORIZONTAL

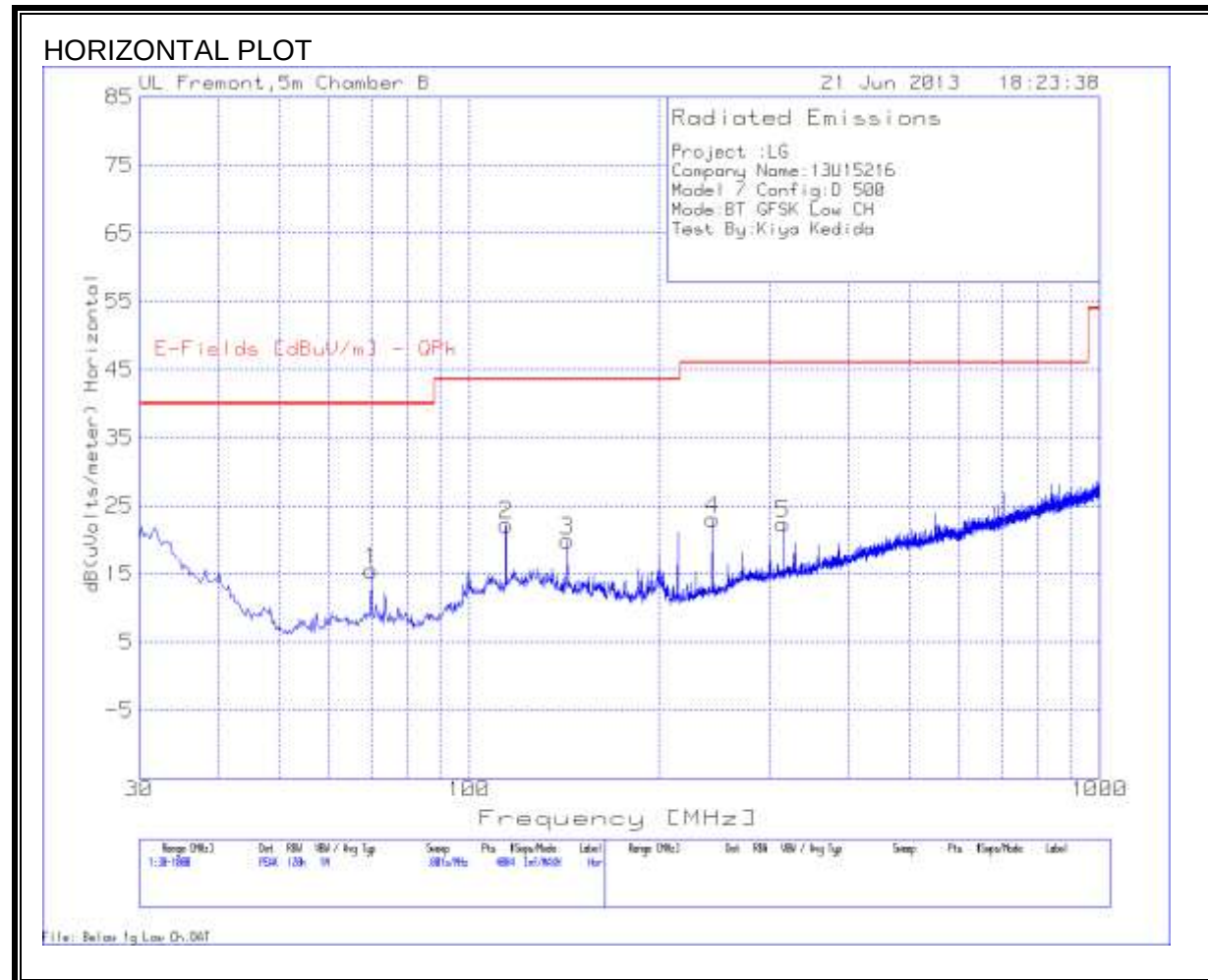




Horizontal 1000 - 18000MHz													
Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor [dB/m]	T34 Preamp/ Cable Loss [dB]	T160 BRF [dB]	dB(uV/s/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
1	2347.768	42.25	PK	32	-29.7	0.9	45.45	53.97	-8.52	74	-28.55	201	Horz
2	2625.25	39.6	PK	32.6	-29.2	0.9	43.9	53.97	-10.07	74	-30.1	100	Horz
3	7172.552	35.51	PK	35.6	-23.1	0.3	48.31	53.97	-5.66	74	-25.69	201	Horz
4	15083.61	34.14	PK	39.8	-16.3	0.4	58.04	53.97	4.07	74	-15.96	100	Horz
Vertical 1000 - 18000MHz													
Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor [dB/m]	T34 Preamp/ Cable Loss [dB]	T160 BRF [dB]	dB(uV/s/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
6	2387.408	41.19	PK	32.1	-29.7	0.9	44.49	53.97	-9.48	74	-29.51	201	Vert
7	2704.53	40.7	PK	32.6	-29	0.9	45.2	53.97	-8.77	74	-28.8	99	Vert
8	6872.418	35.51	PK	35.6	-23.2	0.3	48.21	53.97	-5.76	74	-25.79	99	Vert
Horizontal 10000 - 18000MHz													
Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor [dB/m]	T34 Preamp/ Cable Loss [dB]	T160 BRF [dB]	dB(uV/s/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
5	15065.47	22.47	PK	39.8	-16.3	0.4	46.37	53.97	-7.6	74	-27.63	99	Horz

7.3. WORST-CASE BELOW 1 GHz

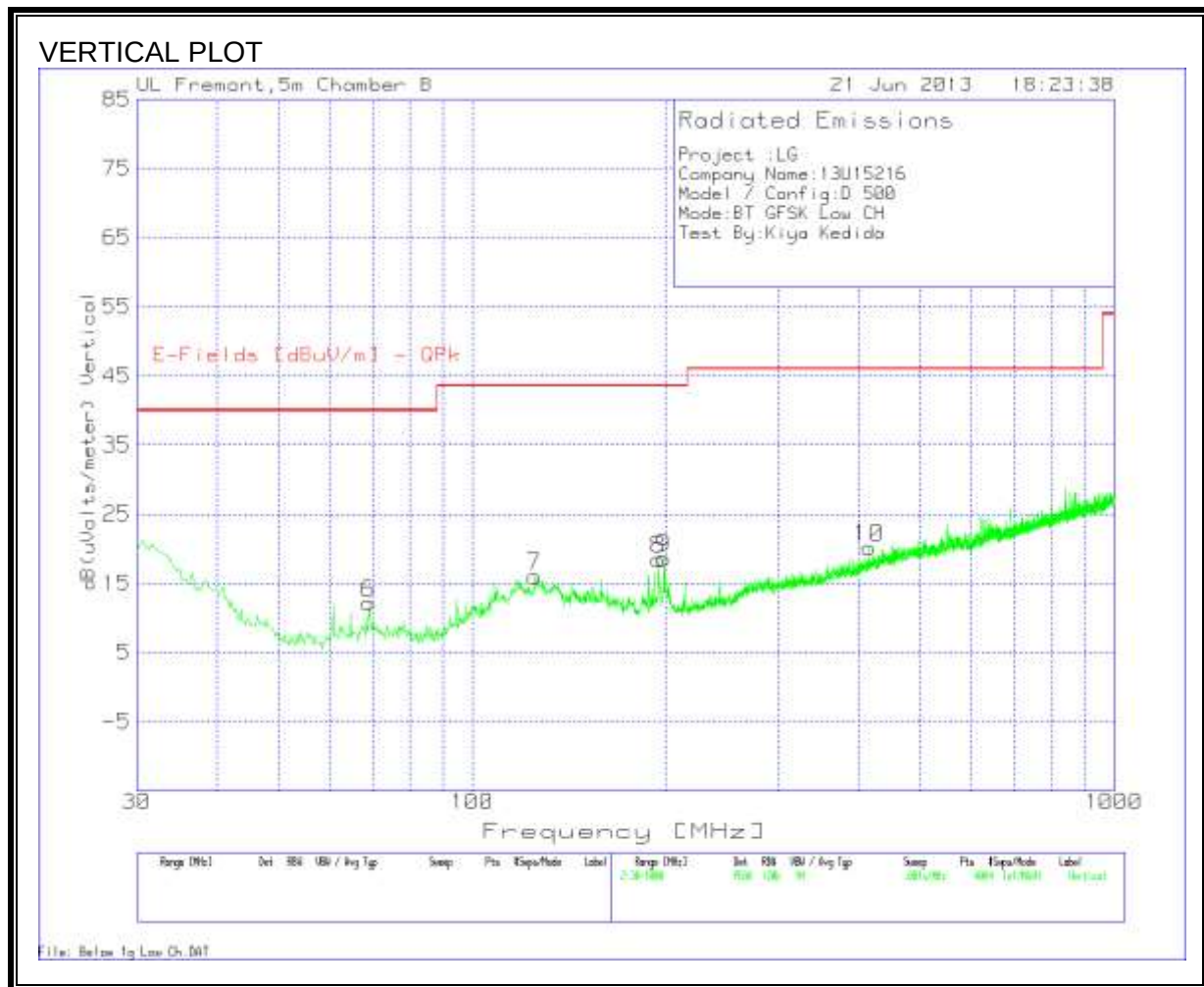
GFSK SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)



HORIZONTAL DATA

Horizontal 30 - 1000MHz										
Marker No.	Test Frequency	Meter Reading(dBuV)	Detector	T243 Antenna Factor dB/m	T10 preamp/ Cable loss [dB]	Corrected Reading dB(uVolts/meter)	E-Fields [dBuV/m] - QPk	Margin (dB)	Height [cm]	Polarity
1	69.9825	36.29	PK	7.9	-28.7	15.49	40	-24.51	100	Horz
2	114.5691	37.17	PK	13.3	-28.3	22.17	43.52	-21.35	100	Horz
3	143.1626	35.11	PK	12.7	-27.9	19.91	43.52	-23.61	200	Horz
4	243.2401	38.31	PK	11.6	-26.9	23.01	46.02	-23.01	300	Horz
5	314.9663	34.91	PK	13.8	-26.4	22.31	46.02	-23.71	400	Horz

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



VERTICAL DATA

Vertical 30 - 1000MHz										
Marker No.	Test Frequency	Meter Reading(dBuV)	Detector	T243 Antenna Factor dB/m	T10 preamp/Cable loss [dB]	Corrected Reading dB(uVolts/meter)	E-Fields [dBuV/m] - QPk	Margin (dB)	Height [cm]	Polarity
6	69.0132	33.09	PK	7.8	-28.7	12.19	40	-27.81	200	Vert
7	125.2311	29.96	PK	14.1	-28	16.06	43.52	-27.46	200	Vert
8	195.2611	34.1	PK	11.7	-27.3	18.5	43.52	-25.02	200	Vert
9	198.8958	33.65	PK	12.3	-27.3	18.65	43.52	-24.87	200	Vert
10	415.5284	30.52	PK	16.1	-26.5	20.12	46.02	-25.9	200	Vert