FCC 47 CFR PART 15 SUBPART E
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: 13U15216-9

ISSUE DATE: JUNE 26, 2013

Prepared for
LG ELECTRONICS MOBILECOMM U.S.A., INC.
1000 SYLVAN AVE.
ENGLEWOODS CLIFFS, NJ 07632

Prepared by
UL VERIFICATION SERVICES INC.
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NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
--	06/26/13	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: 304010510009

DATE TESTED: APRIL 22, 2013 – MAY 4, 2013 (RF) and JUNE 04, 2013 (DFS)

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
CFR 47 Part 15 Subpart E	Pass
INDUSTRY CANADA RSS-210 Issue 8 Annex 9	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:

PHILIP KIM
WiSE PROGRAM MANAGER
UL Verification Services Inc.

Tested By:

STEVEN TRAN
WiSE ENGINEER
UL Verification Services Inc.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, FCC 06-96, FCC KDB 789033, ANSI C63.10-2009, RSS-GEN Issue 3, and RSS-210 Issue 8.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 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:

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

The EUT is a LTE Phone with Bluetooth, WLAN(2.4GHz & 5GHz) and NFC capabilities.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
5180 - 5240	802.11a	11.35	13.65
5180 - 5240	802.11n HT20	10.06	10.14
5190 - 5230	802.11n HT40	10.38	10.91
5260 - 5320	802.11a	11.51	14.16
5260 - 5320	802.11n HT20	10.23	10.54
5270 - 5310	802.11n HT40	10.72	11.80
5500 - 5700	802.11a	11.26	13.37
5500 - 5700	802.11n HT20	10.27	10.64
5510 - 5670	802.11n HT40	11.82	15.21

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a PIFA antenna, with a maximum gain of 2.44 dBi.

5.4. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was Kernal, Version 3.4.0.

The EUT driver software installed during testing was Android Version 4.1.2.

The test utility software used during testing was LG870LAP8960JR121210A.

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 X orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in X orientation.

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

802.11a mode: 6 Mbps
802.11n HT20mode: MCS0
802.11n HT40mode: MCS0

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

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	**Manufacturer**	**Model**	**Serial Number**	**FCC ID**
AC Adapter	LG	MCS-01WR	RB320071516	N/A
Earphone	I-SOUND CO. LTD	HC-MYD-LG113	N/A	N/A

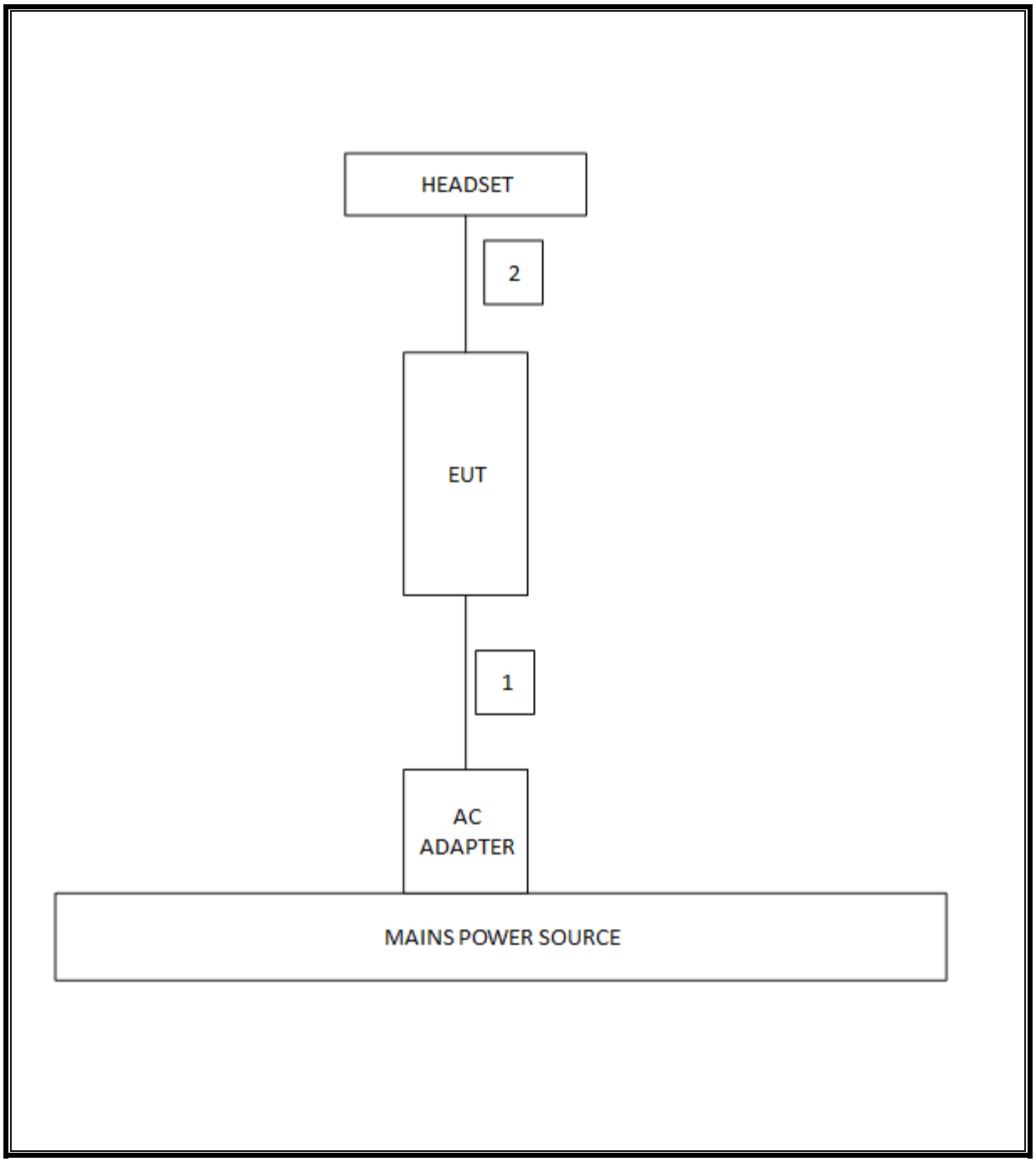
I/O CABLES

I/O Cable List						
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	1.0m	N/A

TEST SETUP

The EUT is setup as a stand-alone device.

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

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

Test Equipment List					
Description	**Manufacturer**	**Model**	**Asset**	**Cal Date**	**Cal Due**
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C00986	03/22/12	03/22/13
Antenna, Horn, 18 GHz	ETS	3117	C01022	02/21/13	02/21/14
Spectrum Analyzer, 26.5 GHz	Agilent / HP	E4440A	C01176	12/13/12	12/13/13
Single Channel PK Power Meter	Agilent	N1911A		02/18/13	02/18/14
Peak and Average Power Sensor	Agilent	E9323A		01/00/00	01/00/00
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01159	04/09/12	04/09/13
P-Series single channel Power Meter	Agilent / HP	N1911A		10/12/12	10/12/13
Peak / Average Power Sensor	Agilent / HP	E9323A		10/11/12	10/11/13

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.

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

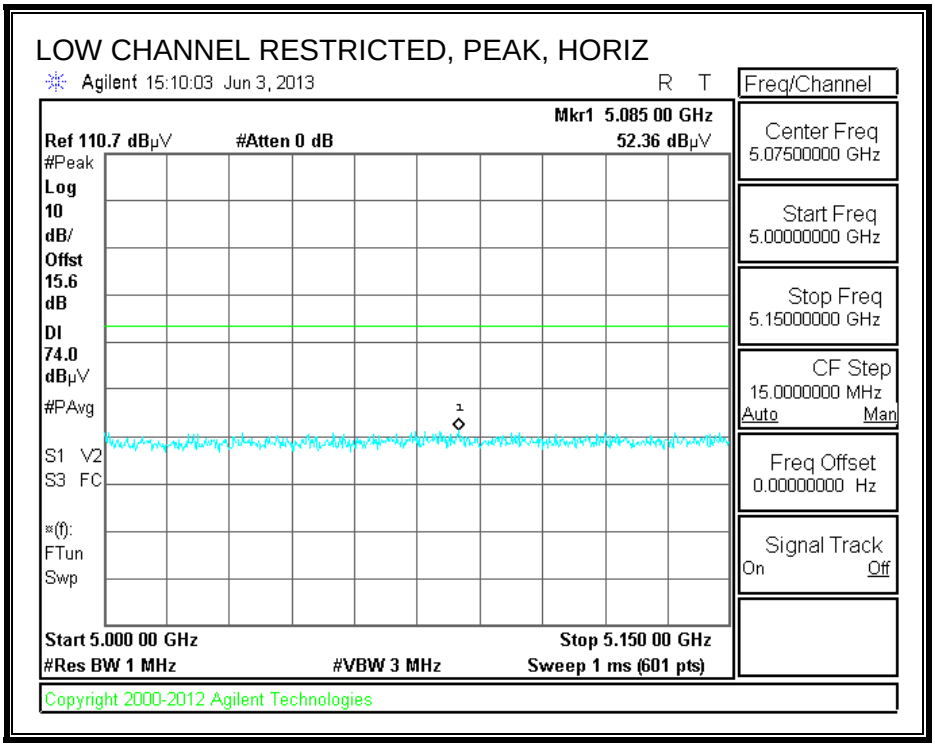
For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 1 MHz for peak measurements and as applicable for average measurements.

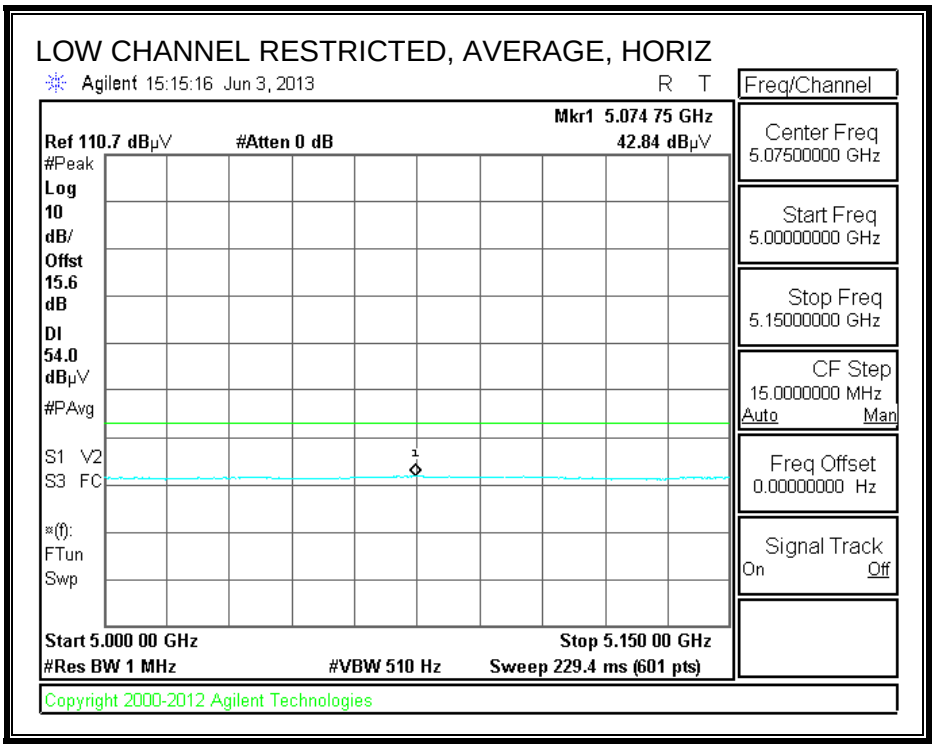
The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

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

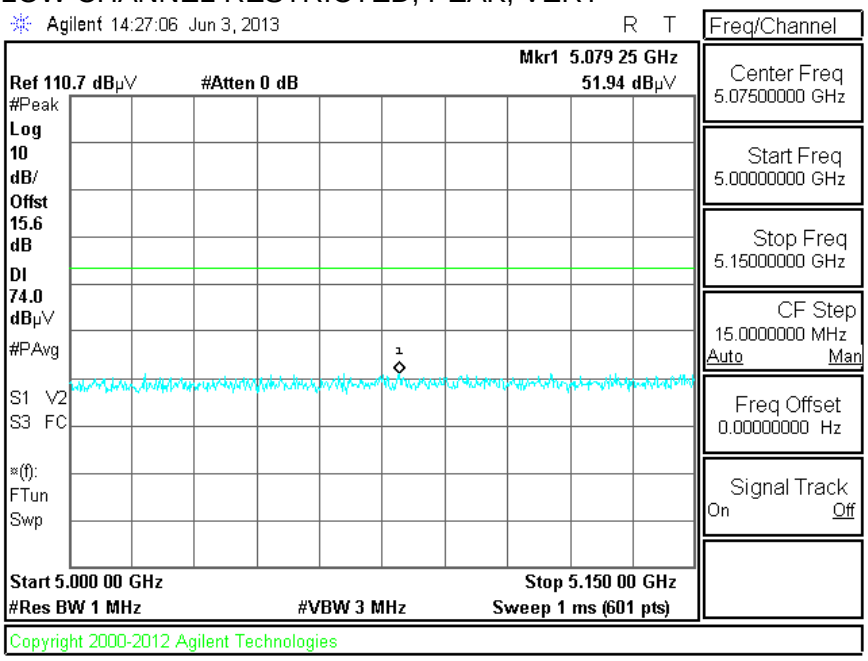
7.2. TX ABOVE 1 GHz 802.11a MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

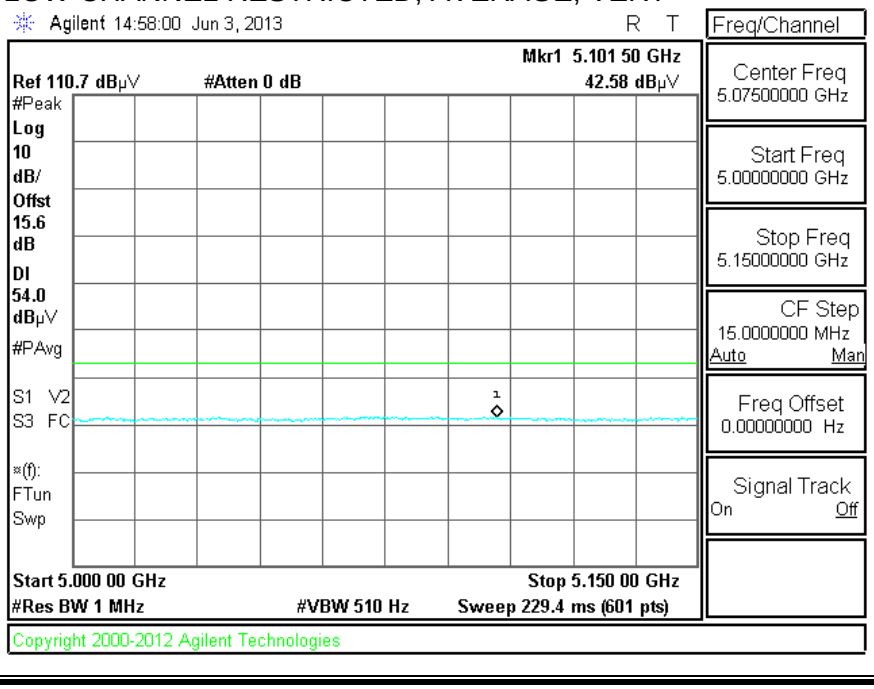




LOW CHANNEL RESTRICTED, PEAK, VERT

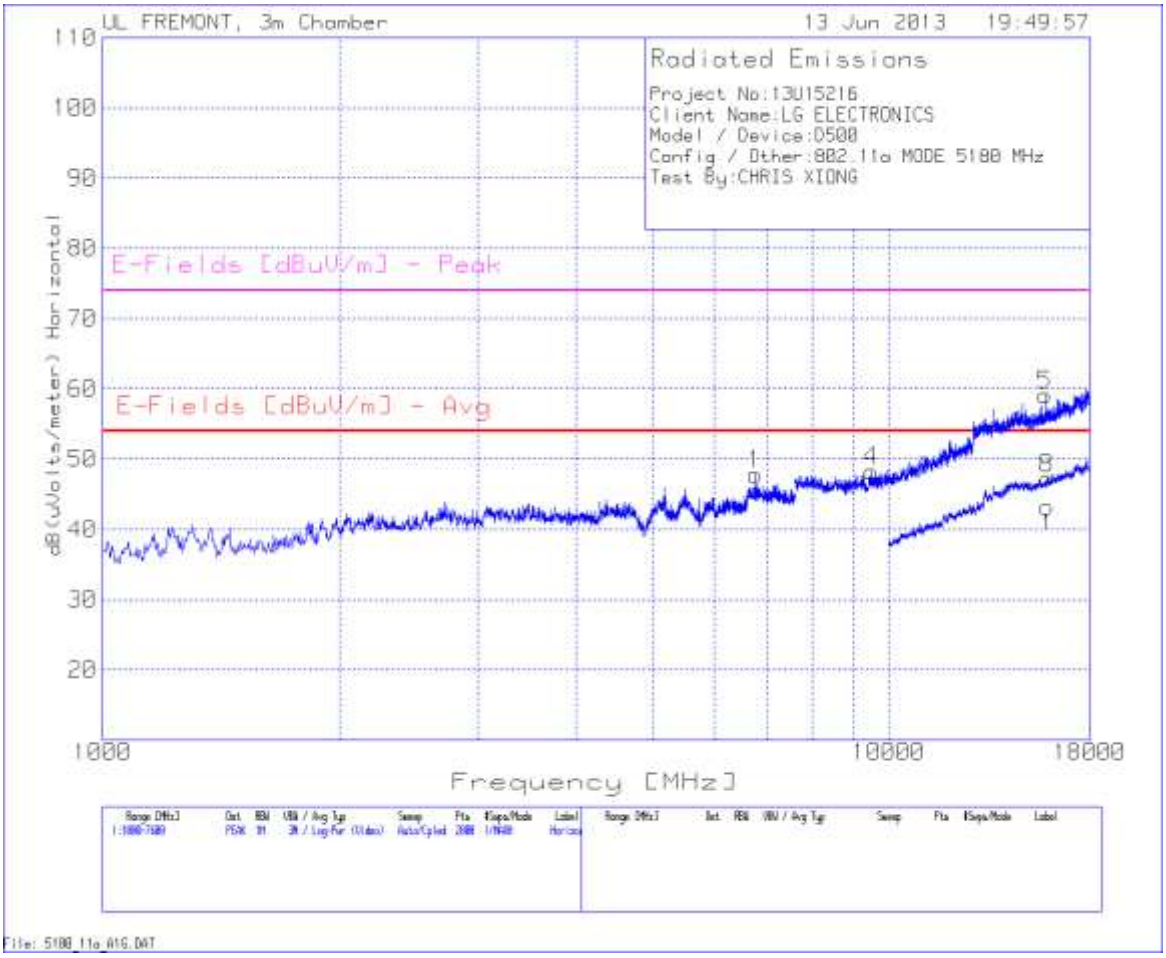


LOW CHANNEL RESTRICTED, AVERAGE, VERT

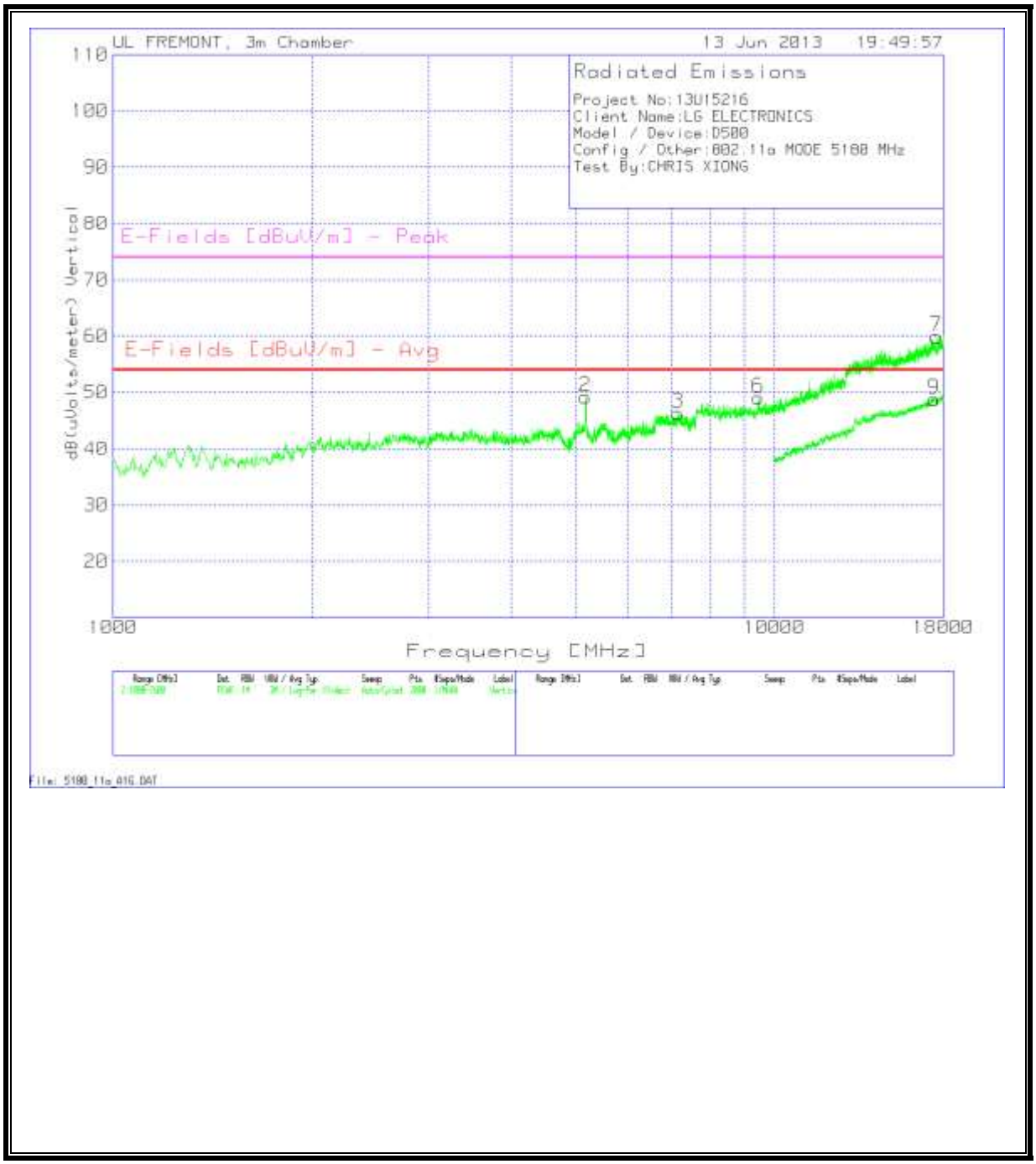


HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, HORIZONTAL



LOW CHANNEL, VERTICAL



DATA

Project No:13U15216
Client Name:LG ELECTRONICS
Model / Device:D500
Config / Other:802.11a MODE 5180 MHz
Test By:CHRIS XIONG

Horizontal 1000 - 7600MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T119 Ant Factor [dB/m]	Preamp/ Cable Loss [dB]	T159 BRF [dB]	dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
1	6765.517	35.4	PK	35.6	-23.3	0.1	47.8	53.97	-6.17	74	-26.2	100	Horz

Vertical 1000 - 7600MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T119 Ant Factor [dB/m]	Preamp/ Cable Loss [dB]	T159 BRF [dB]	dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
2	5182.309	38.78	PK	34.2	-24.7	0.9	49.18	53.97	-4.79	74	-24.82	99	Vert
3	7144.828	33.86	PK	35.6	-23.1	0	46.36	53.97	-7.61	74	-27.64	201	Vert

Horizontal 7600 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T119 Ant Factor [dB/m]	Preamp/ Cable Loss [dB]	T193 HPF [dB]	dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
4	9507.446	33.32	PK	36.6	-21.8	0.1	48.22	53.97	-5.75	74	-25.78	200	Horz
5	15791.104	34.76	PK	40.4	-16.4	0.3	59.06	53.97	5.09	74	-14.94	99	Horz

Vertical 7600 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T119 Ant Factor [dB/m]	Preamp/ Cable Loss [dB]	T193 HPF [dB]	dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
6	9439.88	34.17	PK	36.5	-21.8	0.2	49.07	53.97	-4.9	74	-24.93	99	Vert
7	17579.01	32.48	PK	41.4	-14.3	0.3	59.88	53.97	5.91	74	-14.12	201	Vert

Horizontal 10000 - 18000MHz

Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T119 Ant Factor [dB/m]	T34 Preamp/ Cable	T193 HPF [dB]	dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
8	15897.051	22.74	PK	40.5	-16.3	0.3	47.24	53.97	-6.73	74	-26.76	100	Horz

Vertical 10000 - 18000MHz

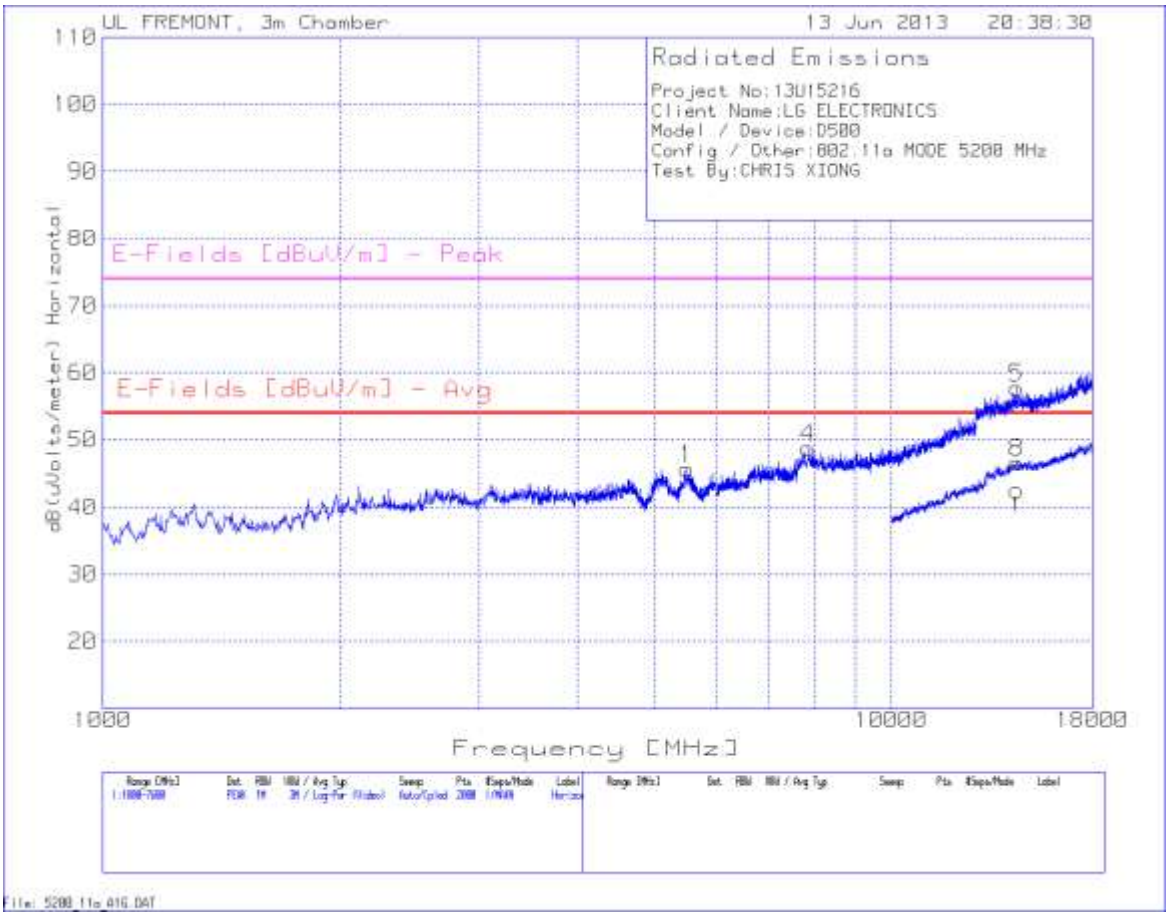
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T119 Ant Factor [dB/m]	Preamp/ Cable Loss [dB]	T193 HPF [dB]	dB(uVolts/ meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
9	17436.282	21.47	PK	41.3	-14.2	0.2	48.77	53.97	-5.2	74	-25.23	201	Vert

7600 - 18000MHz

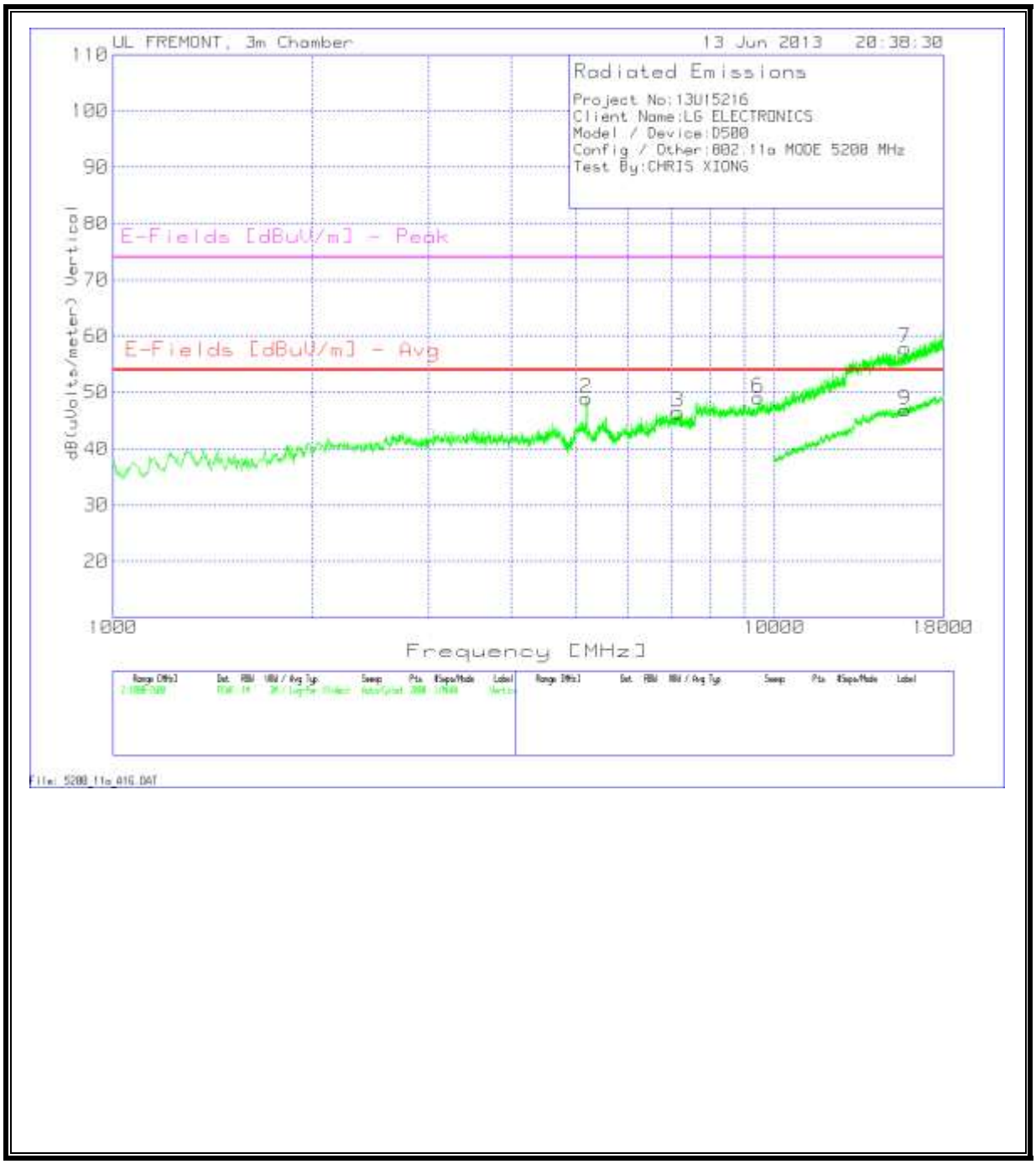
Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T119 Ant Factor [dB/m]	T34 Preamp/Cable Loss	T193 HPF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
9511.83	22.94	AD1	36.6	-21.8	0	37.74	53.97	-16.23	74	-36.26	214	196	Horz
9439.76	23.08	AD1	36.5	-21.8	0.2	37.98	53.97	-15.99	74	-36.02	346	228	Vert

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector

MID CHANNEL, HORIZONTAL



MID CHANNEL, VERTICAL



DATA

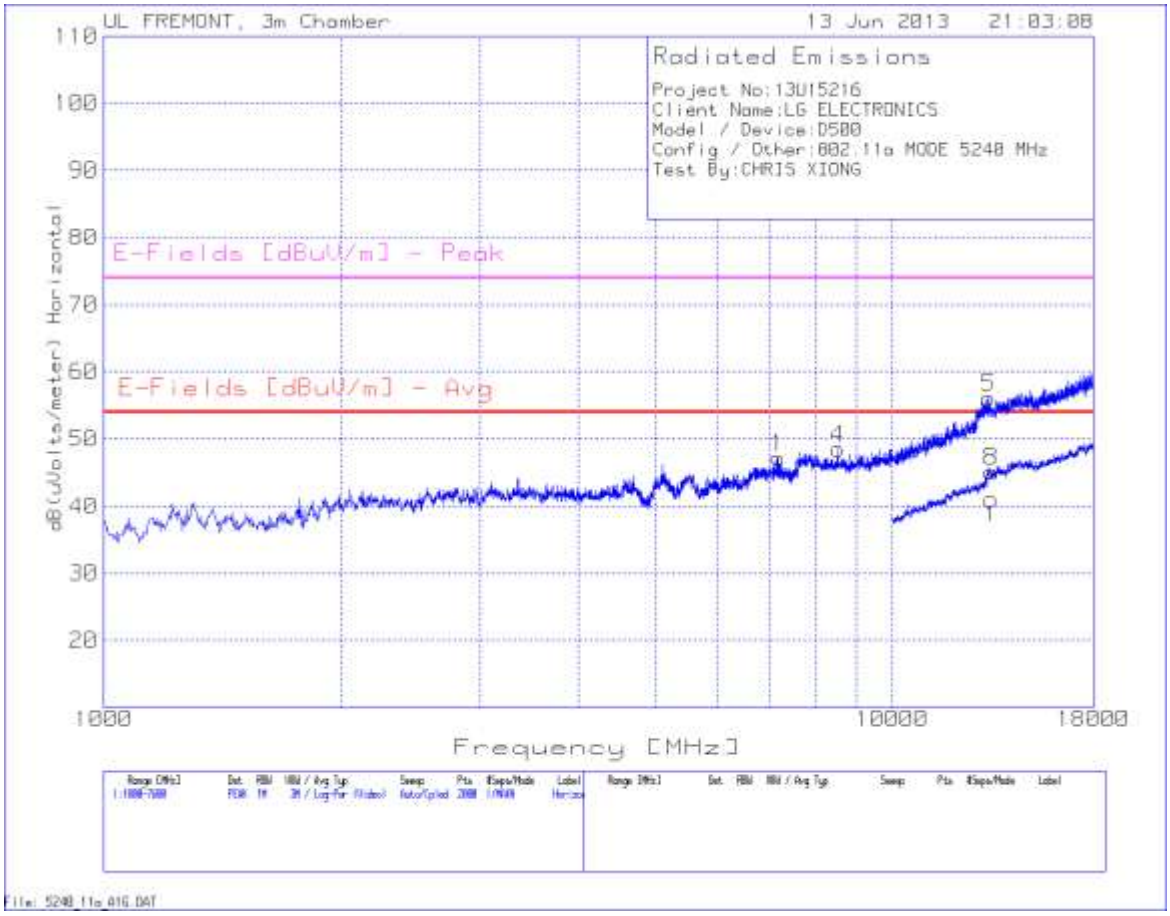
Project No:13U15216
Client Name:LG ELECTRONICS
Model / Device:D500
Config / Other:802.11a MODE 5200 MHz
Test By:CHRIS XIONG

Horizontal 1000 - 7600MHz

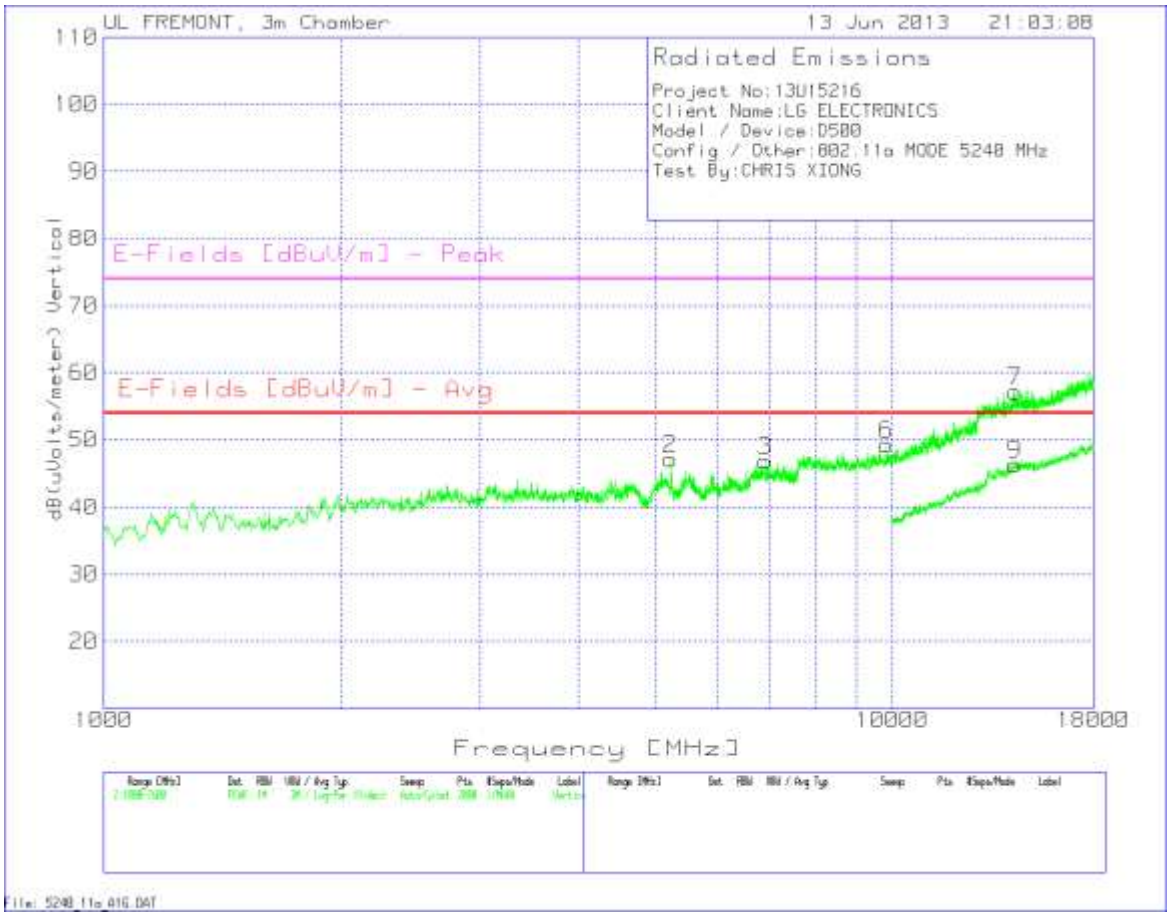
Marker No.	Test Frequency(MHz)	Meter Reading(dBuV)	Detector	T119 Ant Factor [dB/m]	Preamp/ Cable Loss [dB]	T159 BRF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
1	5508.846	34.54	PK	34.8	-24.5	0.8	45.64	53.97	-8.33	74	-28.36	100	Horz
Vertical 1000 - 7600MHz													
2	5195.502	38.49	PK	34.3	-24.7	0.9	48.99	53.97	-4.98	74	-25.01	99	Vert
3	7141.529	33.95	PK	35.6	-23.1	0	46.45	53.97	-7.52	74	-27.55	201	Vert
Horizontal 7600 - 18000MHz													
4	7839.08*	35.5	PK	35.8	-22.7	0.2	48.8	53.97	-5.17	74	-25.2	100	Horz
5	14439.78	33.93	PK	39.5	-15.9	0.2	57.73	53.97	3.76	74	-16.27	201	Horz
Vertical 7600 - 18000MHz													
6	9450.275	34.19	PK	36.5	-21.8	0.2	49.09	53.97	-4.88	74	-24.91	99	Vert
7	15739.13	33.45	PK	40.4	-16.4	0.4	57.85	53.97	3.88	74	-16.15	99	Vert
Horizontal 10000 - 18000MHz													
8	14433.783	22.8	PK	39.5	-15.9	0.2	46.6	53.97	-7.37	74	-27.4	201	Horz
Vertical 10000 - 18000MHz													
9	15741.129	22.45	PK	40.4	-16.4	0.4	46.85	53.97	-7.12	74	-27.15	99	Vert
Vertical 7600 - 18000MHz													
9445.32	22.79	AD1	36.5	-21.8	0.2	37.69	53.97	-16.28	74	-36.31	235	346	Vert

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector

HIGH CHANNEL, HORIZONTAL



HIGH CHANNEL, VERTICAL



DATA

Project No:13U15216
Client Name:LG ELECTRONICS
Model / Device:D500
Config / Other:802.11a MODE 5240 MHz
Test By:CHRIS XIONG

Horizontal 1000 - 7600MHz

Marker No.	Test Frequency(MHz)	Meter Reading(dBuV)	Detector	T119 Ant Factor [dB/m]	Preamp/ Cable Loss [dB]	T159 BRF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
1	7158.021	34.74	PK	35.6	-23.1	0	47.24	53.97	-6.73	74	-26.76	201	Horz
Vertical 1000 - 7600MHz													
2	5235.082	36.7	PK	34.3	-24.7	0.9	47.2	53.97	-6.77	74	-26.8	99	Vert
3	6900.75	34.4	PK	35.6	-23.2	0.1	46.9	53.97	-7.07	74	-27.1	99	Vert
Horizontal 7600 - 18000MHz													
4	8530.335*	34.54	PK	35.8	-22.1	0.3	48.54	53.97	-5.43	74	-25.46	200	Horz
5	13270.365	33.1	PK	39.1	-16.7	0.6	56.1	53.97	2.13	74	-17.9	200	Horz
Vertical 7600 - 18000MHz													
6	9834.883*	33.82	PK	36.9	-21.6	0.2	49.32	53.97	-4.65	74	-24.68	201	Vert
7	14309.845	33.42	PK	39.3	-15.8	0.3	57.22	53.97	3.25	74	-16.78	201	Vert
Horizontal 10000 - 18000MHz													
8	13350.325	22.5	PK	39.2	-16.7	0.1	45.1	53.97	-8.87	74	-28.9	99	Horz
Vertical 10000 - 18000MHz													
9	14321.839	22.52	PK	39.3	-15.8	0.3	46.32	53.97	-7.65	74	-27.68	201	Vert

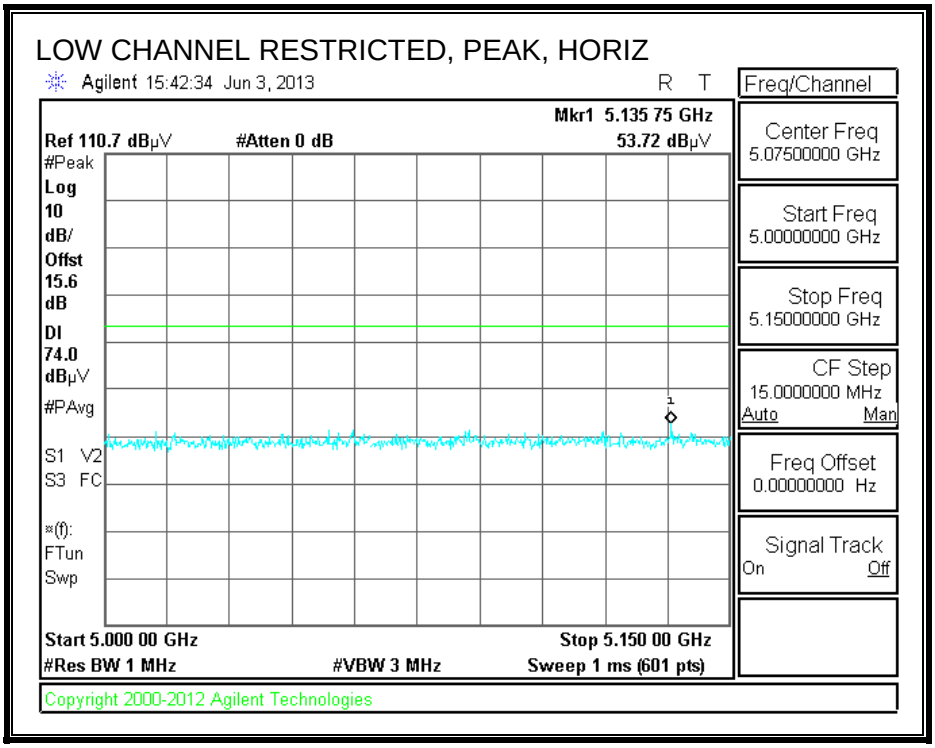
Horizontal 7600 - 18000MHz

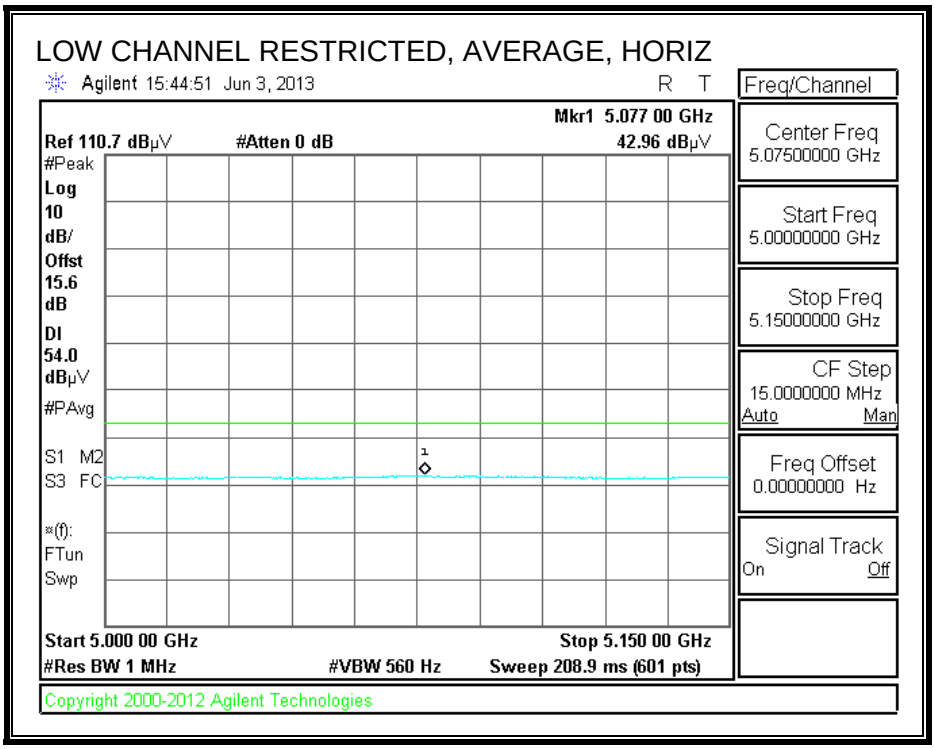
Test Frequency (MHz)	Meter Reading(dBuV)	Detector	T119 Ant Factor [dB/m]	T34 Preamp/ Cable Loss [dB]	T193 HPF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
9511.83	22.94	AD1	36.6	-21.8	0	37.74	53.97	-16.23	74	-36.26	214	196	Horz
9517.49	22.73	AD1	36.6	-21.8	0.1	37.63	53.97	-16.34	74	-36.37	235	397	Horz
Vertical 7600 - 18000MHz													
9445.32	22.79	AD1	36.5	-21.8	0.2	37.69	53.97	-16.28	74	-36.31	235	346	Vert
9436	22.78	AD1	36.5	-21.8	0.2	37.68	53.97	-16.29	74	-36.32	159	231	Vert
9439.76	23.08	AD1	36.5	-21.8	0.2	37.98	53.97	-15.99	74	-36.02	346	228	Vert

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector
CAV - CISPR Average detector

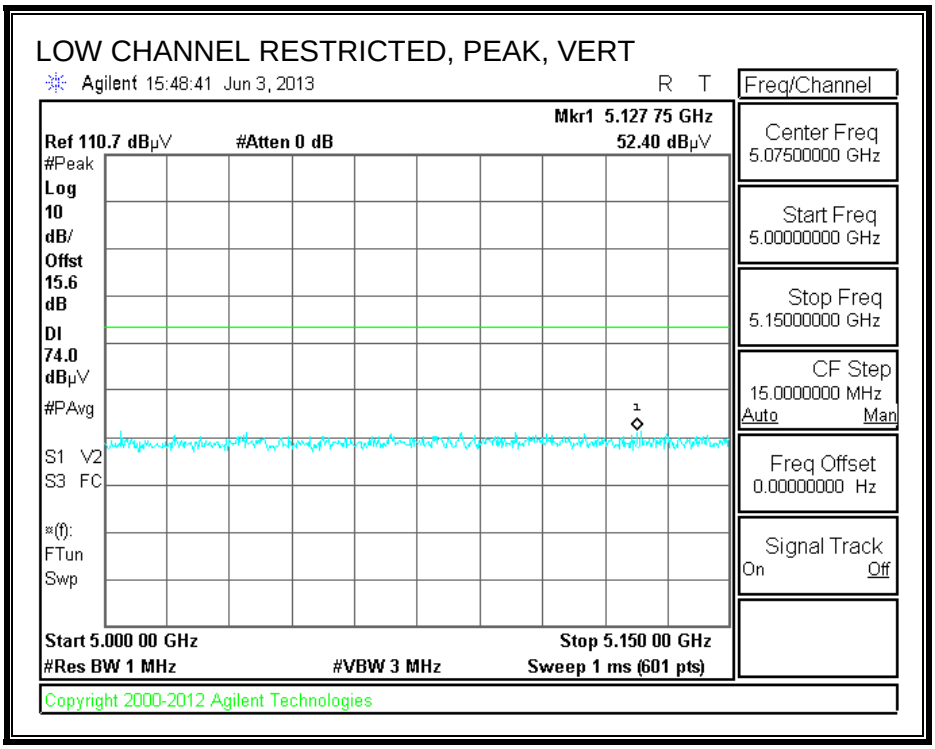
7.3. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

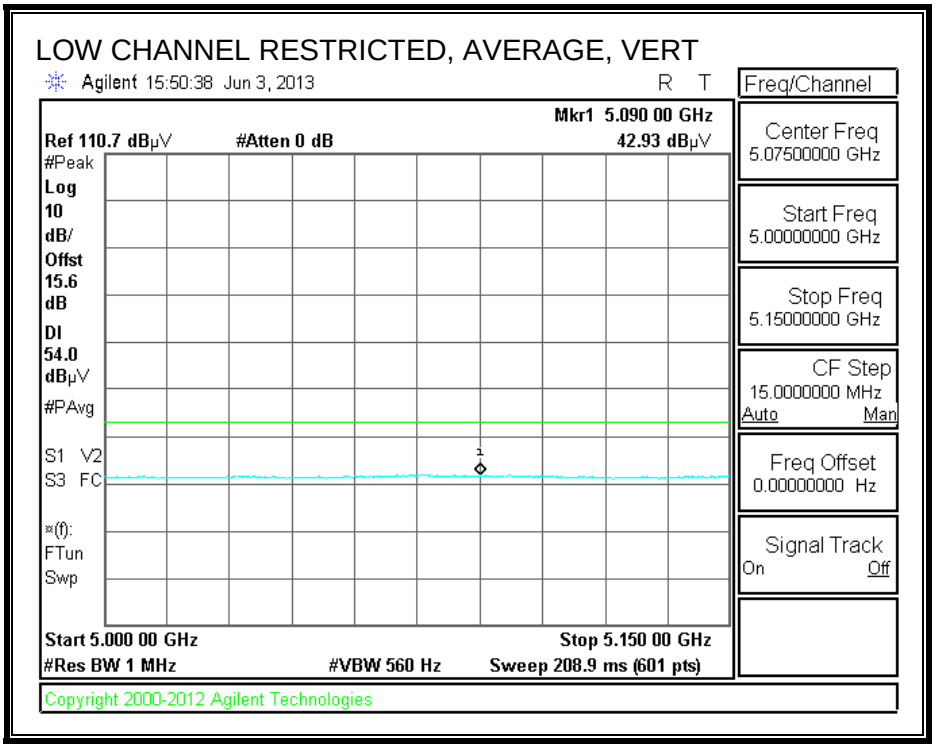




LOW CHANNEL RESTRICTED, PEAK, VERT

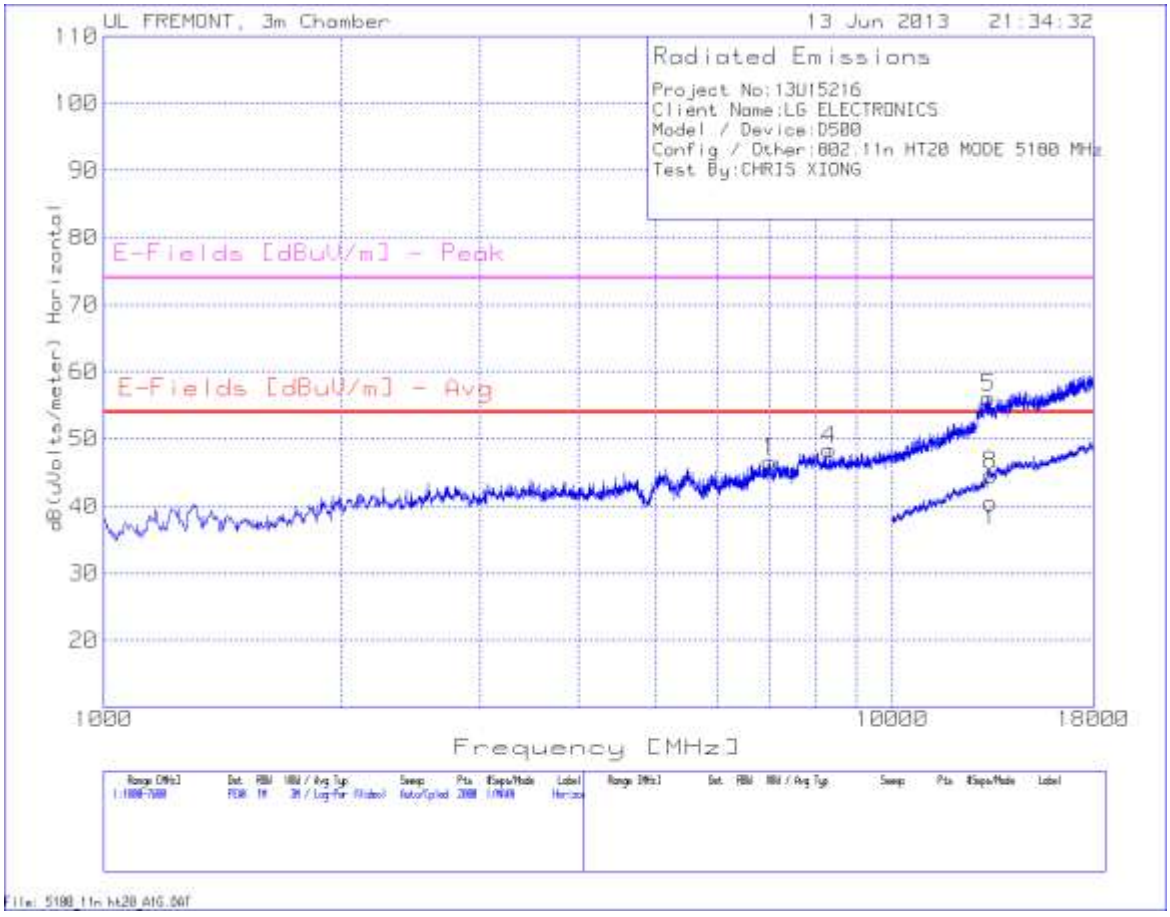


LOW CHANNEL RESTRICTED, AVERAGE, VERT

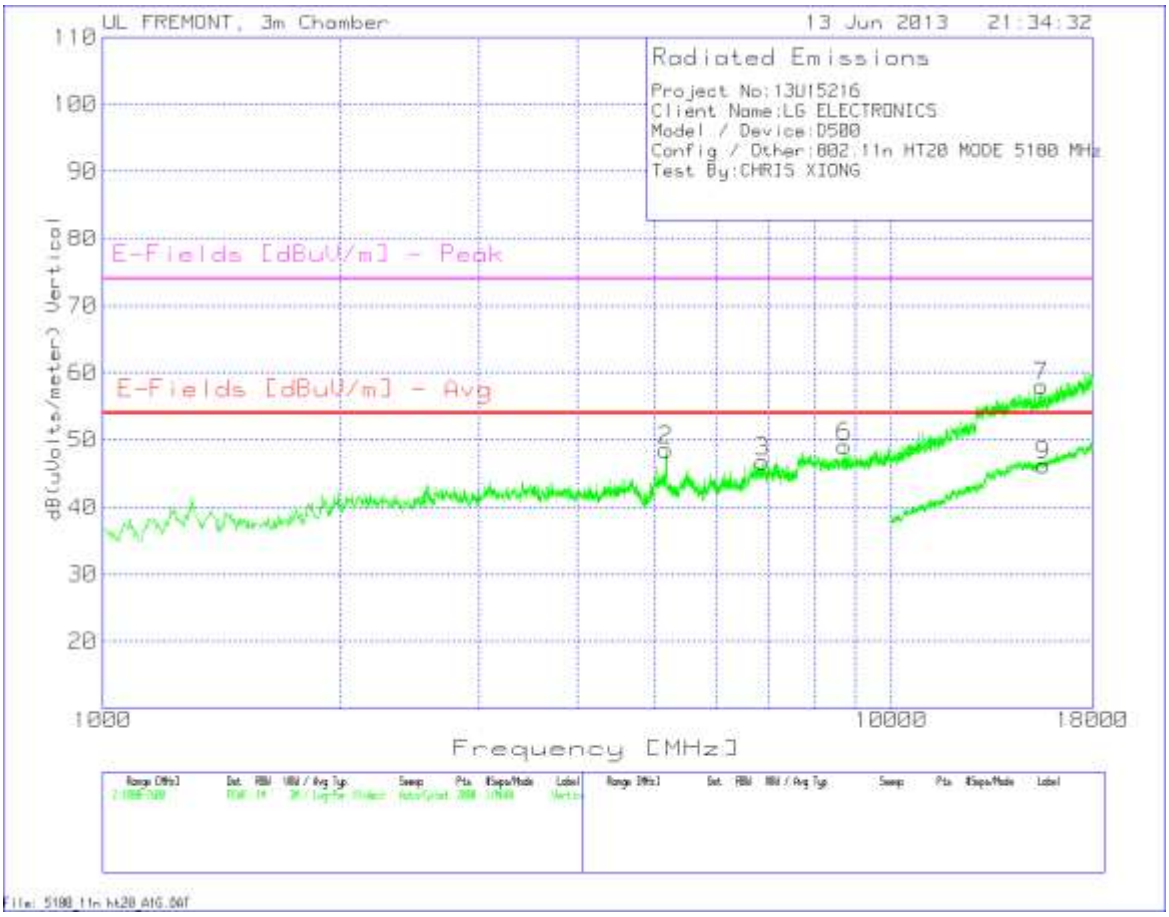


HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, HORIZONTAL



LOW CHANNEL, VERTICAL



DATA

Project No:13U15216
Client Name:LG ELECTRONICS
Model / Device:D500
Config / Other:802.11n HT20 MODE 5180 MHz
Test By:CHRIS XIONG

Horizontal 1000 - 7600MHz

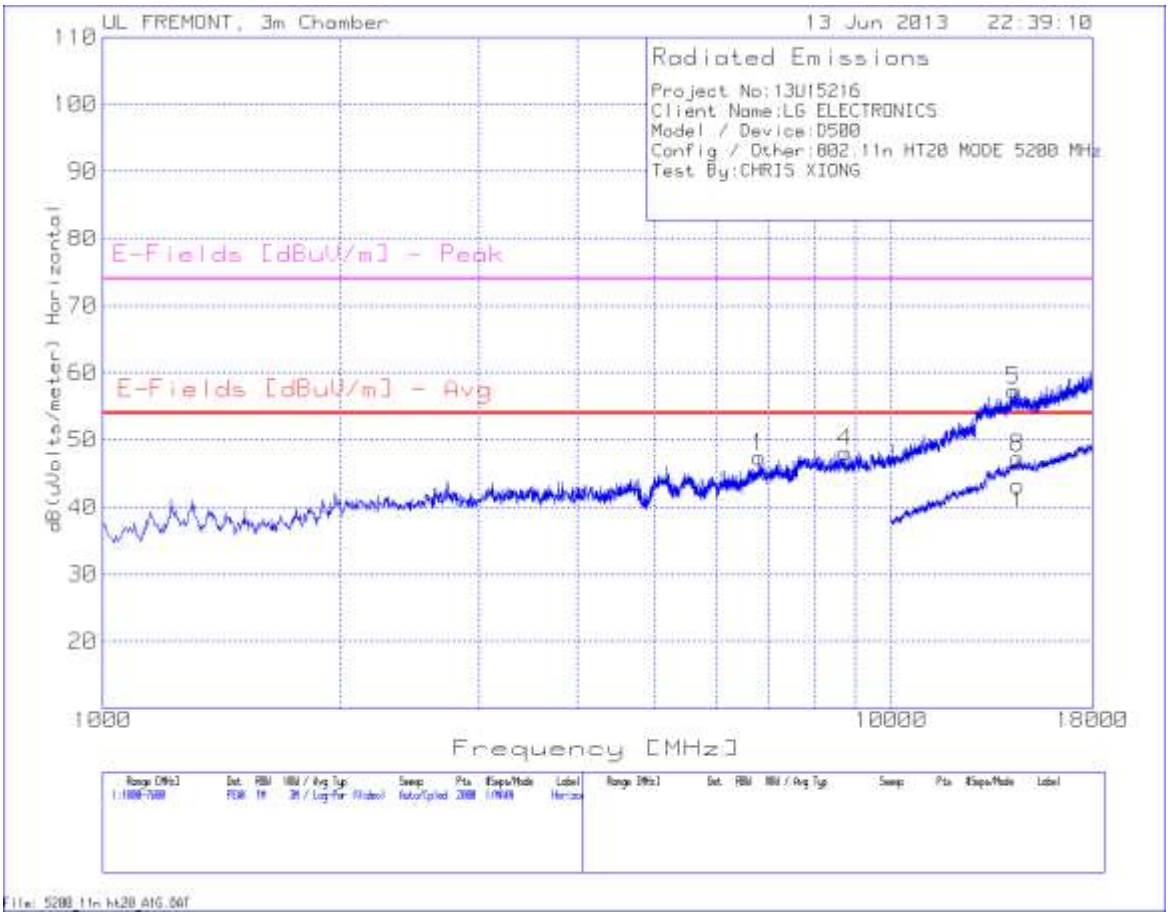
Marker No.	Test Frequency(MHz)	Meter Reading(dBuV)	Detector	T119 Ant Factor [dB/m]	T34 Preamp/ Cable	T159 BRF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
1	6996.402	34.16	PK	35.6	-23.2	0.1	46.66	53.97	-7.31	74	-27.34	201	Horz
Vertical 1000 - 7600MHz													
2	5179.01	38.18	PK	34.2	-24.7	0.9	48.58	53.97	-5.39	74	-25.42	100	Vert
3	6861.169	34.25	PK	35.6	-23.2	0.1	46.75	53.97	-7.22	74	-27.25	100	Vert
Horizontal 7600 - 18000MHz													
4	8322.439	34.51	PK	35.8	-22.2	0.3	48.41	53.97	-5.56	74	-25.59	201	Horz
5	13244.378	33.51	PK	39.1	-16.7	0.2	56.11	53.97	2.14	74	-17.89	201	Horz
Vertical 7600 - 18000MHz													
6	8733.033*	35.07	PK	35.9	-22.1	0.2	49.07	53.97	-4.9	74	-24.93	201	Vert
7	15526.037	33.74	PK	40.3	-16.5	0.5	58.04	53.97	4.07	74	-15.96	201	Vert
Horizontal 10000 - 18000MHz													
8	13314.343	22.13	PK	39.2	-16.7	0	44.63	53.97	-9.34	74	-29.37	201	Horz
Vertical 10000 - 18000MHz													
9	15585.207	22.16	PK	40.4	-16.6	0.3	46.26	53.97	-7.71	74	-27.74	100	Vert

Horizontal 7600 - 18000MHz

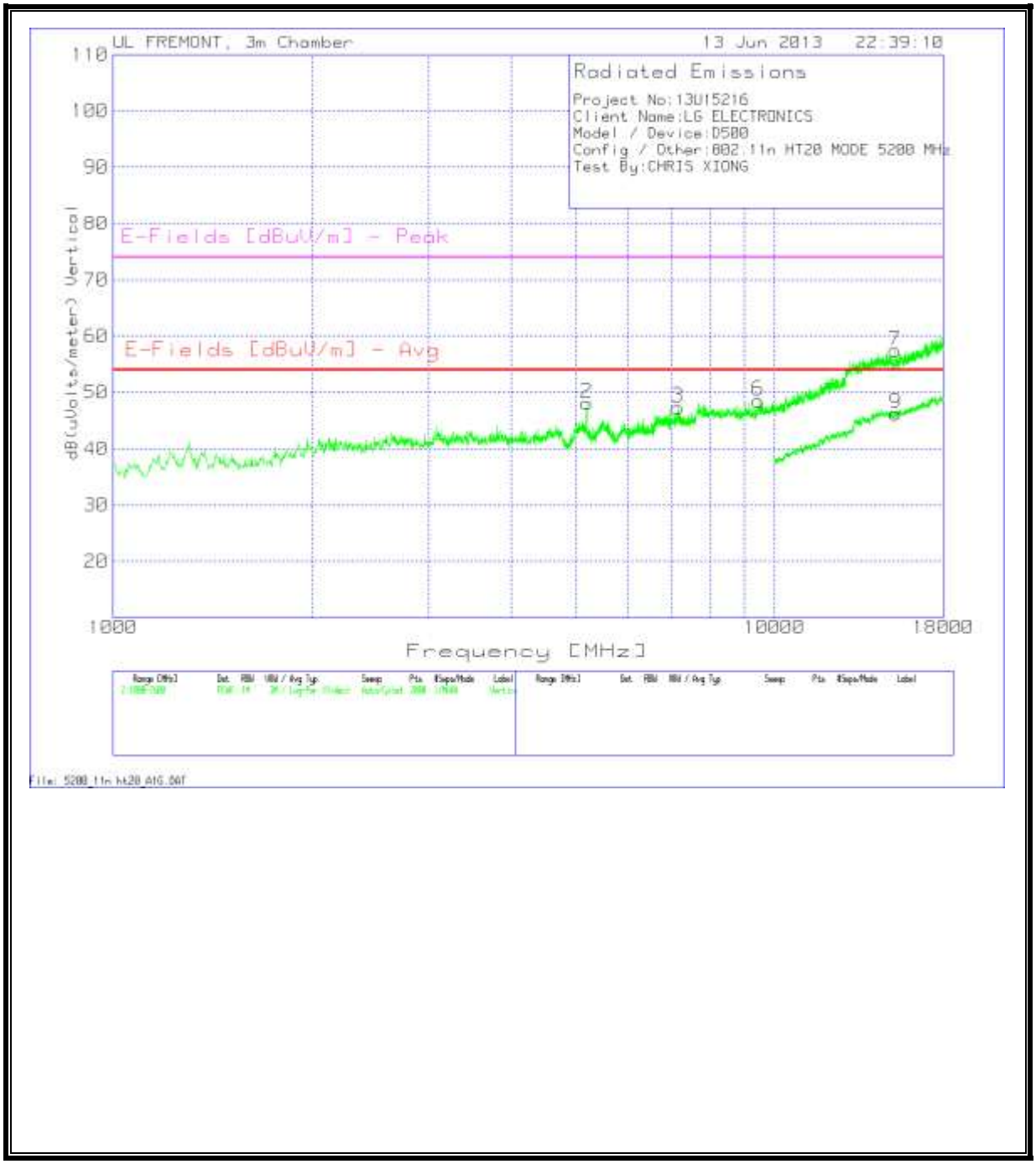
Test Frequency(MHz)	Meter Reading(dBuV)	Detector	T119 Ant Factor [dB/m]	Preamp/ Cable Loss [dB]	T193 HPF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
8320.42	22.93	AD1	35.8	-22.2	0.3	36.83	53.97	-17.14	74	-37.17	270	233	Horz
9511.83	22.94	AD1	36.6	-21.8	0	37.74	53.97	-16.23	74	-36.26	214	196	Horz
9517.49	22.73	AD1	36.6	-21.8	0.1	37.63	53.97	-16.34	74	-36.37	235	397	Horz
Vertical 7600 - 18000MHz													
9436	22.78	AD1	36.5	-21.8	0.2	37.68	53.97	-16.29	74	-36.32	159	231	Vert
9439.76	23.08	AD1	36.5	-21.8	0.2	37.98	53.97	-15.99	74	-36.02	346	228	Vert
9445.32	22.79	AD1	36.5	-21.8	0.2	37.69	53.97	-16.28	74	-36.31	235	346	Vert

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector

MID CHANNEL, HORIZONTAL



MID CHANNEL, VERTICAL



DATA

Project No:13U15216
Client Name:LG ELECTRONICS
Model / Device:D500
Config / Other:802.11n HT20 MODE 5200 MHz
Test By:CHRIS XIONG

Horizontal 1000 - 7600MHz

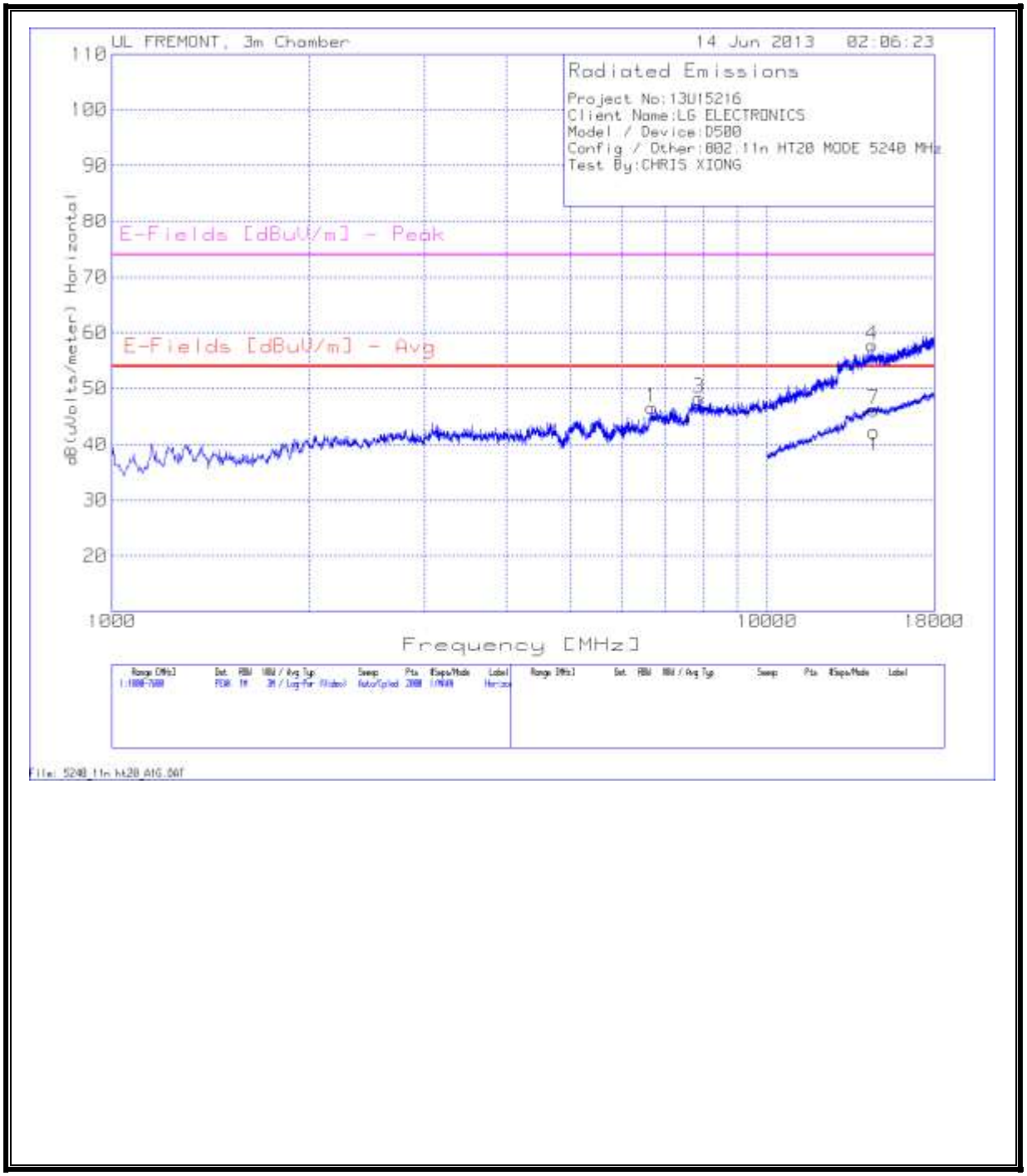
Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor [dB/m]	T34 Preamp/ Cable	T159 BRF [dB]	dB(uVolt s/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
1	6801.799	35.08	PK	35.6	-23.3	0.1	47.48	53.97	-6.49	74	-26.52	201	Horz
Vertical 1000 - 7600MHz													
2	5198.801	37.67	PK	34.3	-24.7	0.9	48.17	53.97	-5.8	74	-25.83	100	Vert
3	7138.231	34.79	PK	35.6	-23.1	0	47.29	53.97	-6.68	74	-26.71	201	Vert
Horizontal 7600 - 18000MHz													
4	8738.231*	34.08	PK	35.9	-22.1	0.2	48.08	53.97	-5.89	74	-25.92	99	Horz
5	14299.45	33.58	PK	39.3	-15.8	0.3	57.38	53.97	3.41	74	-16.62	99	Horz
Vertical 7600 - 18000MHz													
6	9439.88	33.62	PK	36.5	-21.8	0.2	48.52	53.97	-5.45	74	-25.48	201	Vert
7	15208.996	33.43	PK	39.9	-16.3	0.4	57.43	53.97	3.46	74	-16.57	99	Vert
Horizontal 10000 - 18000MHz													
8	14481.759	23.08	PK	39.6	-15.9	0.5	47.28	53.97	-6.69	74	-26.72	201	Horz
Vertical 10000 - 18000MHz													
9	15253.373	22.27	PK	40	-16.4	0.4	46.27	53.97	-7.7	74	-27.73	99	Vert

Horizontal 7600 - 18000MHz

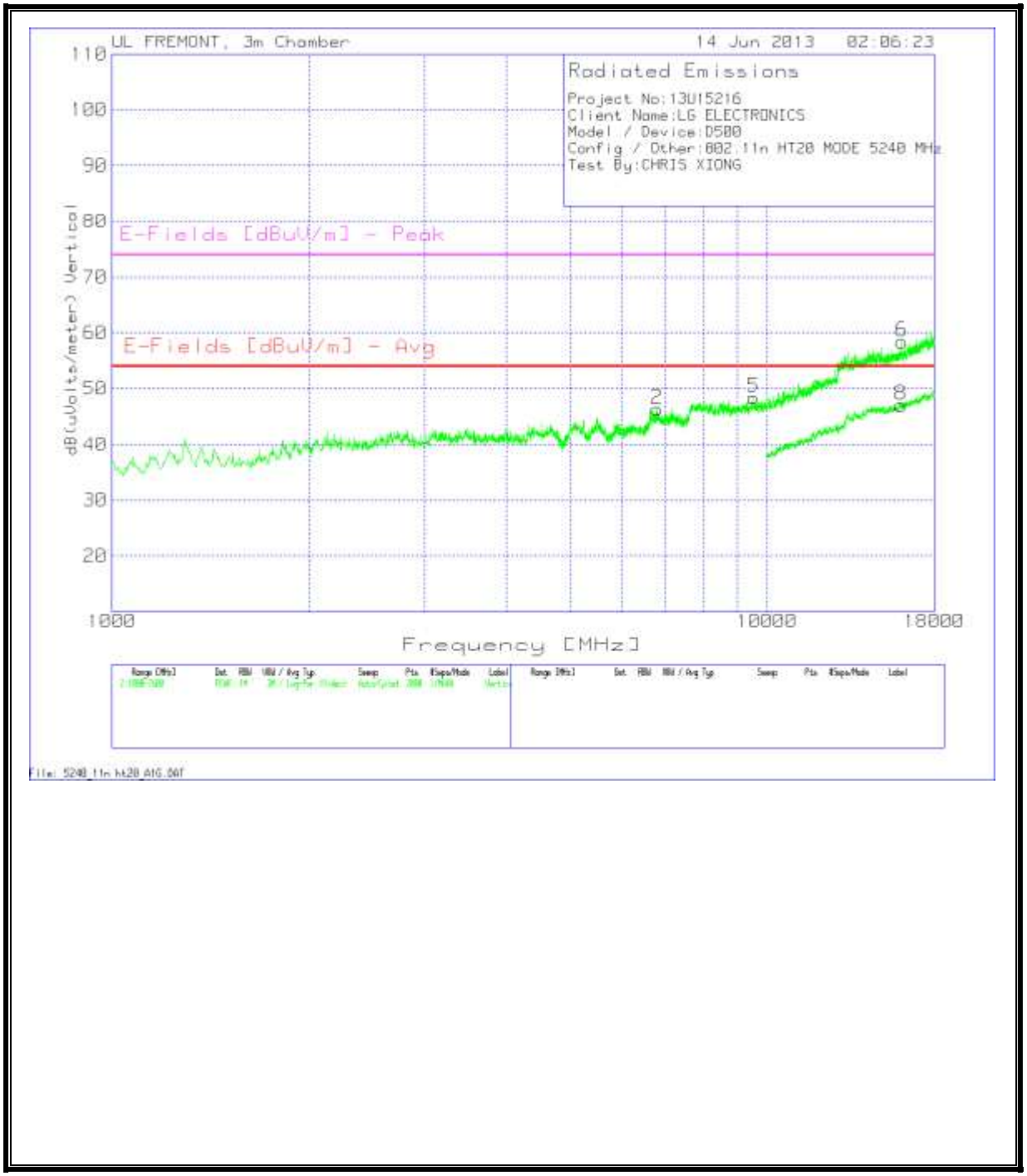
Test Frequency(MHz)	Meter Reading(dBuV)	Detector	T119 Ant Factor [dB/m]	T34 Preamp/ Cable	T193 HPF [dB]	dB(uVolt s/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
8320.42	22.93	AD1	35.8	-22.2	0.3	36.83	53.97	-17.14	74	-37.17	270	233	Horz
9511.83	22.94	AD1	36.6	-21.8	0	37.74	53.97	-16.23	74	-36.26	214	196	Horz
9517.49	22.73	AD1	36.6	-21.8	0.1	37.63	53.97	-16.34	74	-36.37	235	397	Horz
Vertical 7600 - 18000MHz													
9446.34	22.78	AD1	36.5	-21.8	0.2	37.68	53.97	-16.29	74	-36.32	172	208	Vert
9436	22.78	AD1	36.5	-21.8	0.2	37.68	53.97	-16.29	74	-36.32	159	231	Vert
9439.76	23.08	AD1	36.5	-21.8	0.2	37.98	53.97	-15.99	74	-36.02	346	228	Vert

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector

HIGH CHANNEL, HORIZONTAL



HIGH CHANNEL, VERTICAL



DATA

Project No:13U15216
Client Name:LG ELECTRONICS
Model / Device:D500
Config / Other:802.11n HT20 MODE 5240 MHz
Test By:CHRIS XIONG

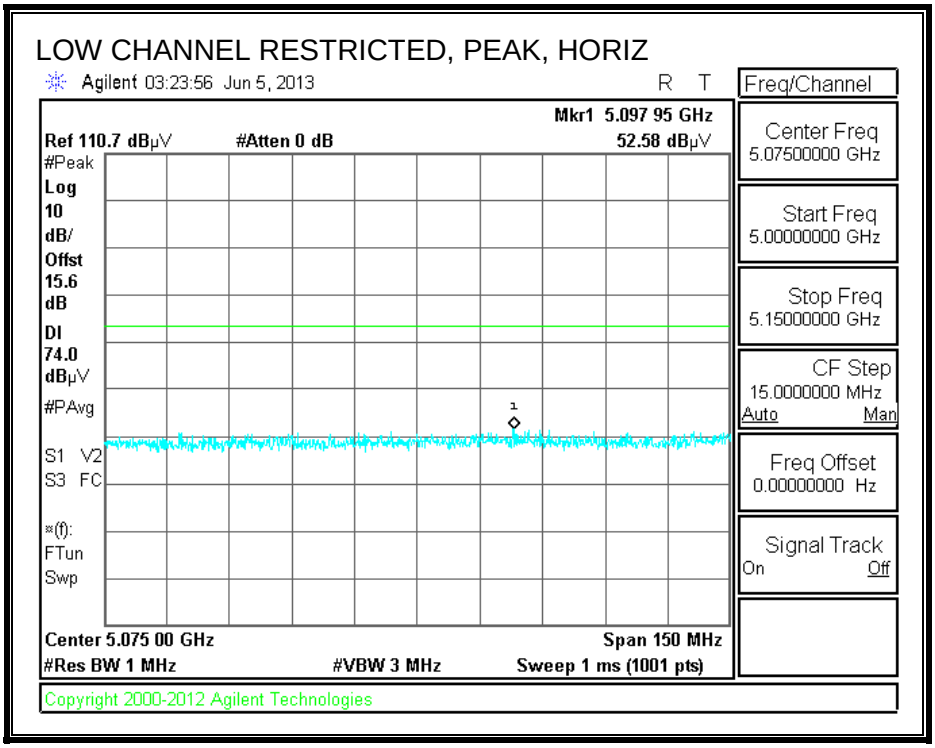
Horizontal 1000 - 7600MHz

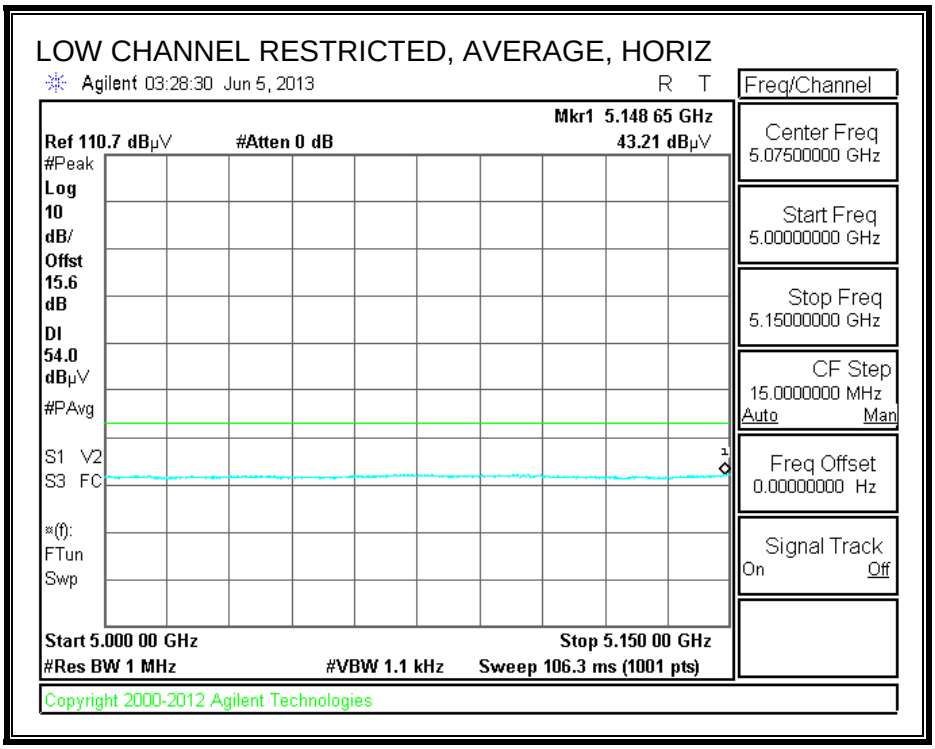
Marker No.	Test Frequency(MHz)	Meter Reading(dBuV)	Detector	T119 Ant Factor [dB/m]	T34 Preamp/ Cable	T159 BRF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
1	6669.865	34.33	PK	35.6	-23.4	0.1	46.63	53.97	-7.34	74	-27.37	99	Horz
Vertical 1000 - 7600MHz													
2	6785.307	33.92	PK	35.6	-23.3	0.1	46.32	53.97	-7.65	74	-27.68	201	Vert
Horizontal 7600 - 18000MHz													
3	7865.067*	34.69	PK	35.8	-22.6	0.4	48.29	53.97	-5.68	74	-25.71	201	Horz
4	14476.162	33.62	PK	39.6	-15.9	0.5	57.82	53.97	3.85	74	-16.18	201	Horz
Vertical 7600 - 18000MHz													
5	9538.631*	33.38	PK	36.6	-21.8	0.2	48.38	53.97	-5.59	74	-25.62	100	Vert
6	16045.777	33.7	PK	40.5	-16.2	0.4	58.4	53.97	4.43	74	-15.6	100	Vert
Horizontal 10000 - 18000MHz													
7	14557.721	22.58	PK	39.7	-16	0	46.28	53.97	-7.69	74	-27.72	201	Horz
Vertical 10000 - 18000MHz													
8	16020.99	22.54	PK	40.5	-16.2	0.2	47.04	53.97	-6.93	74	-26.96	201	Vert

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector

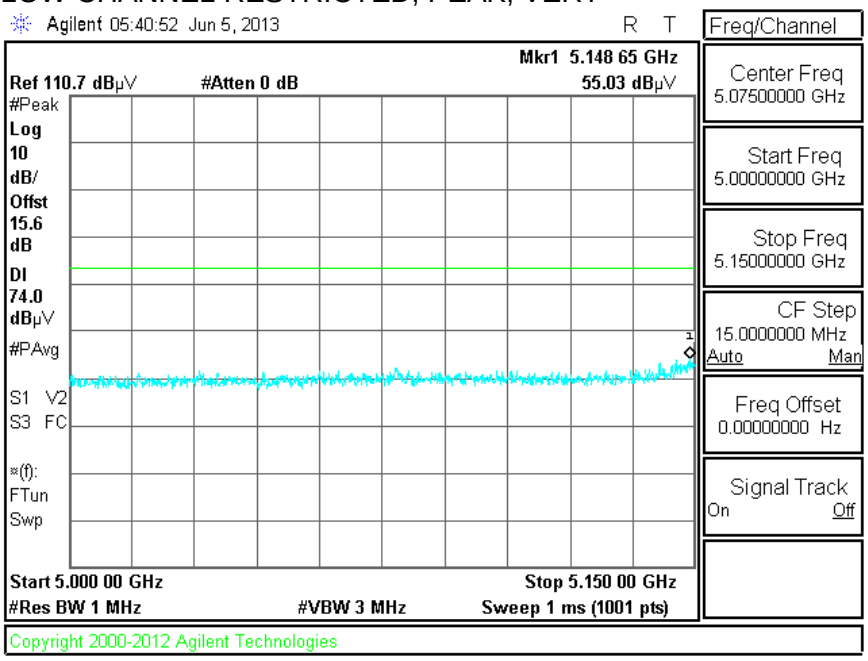
7.4. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

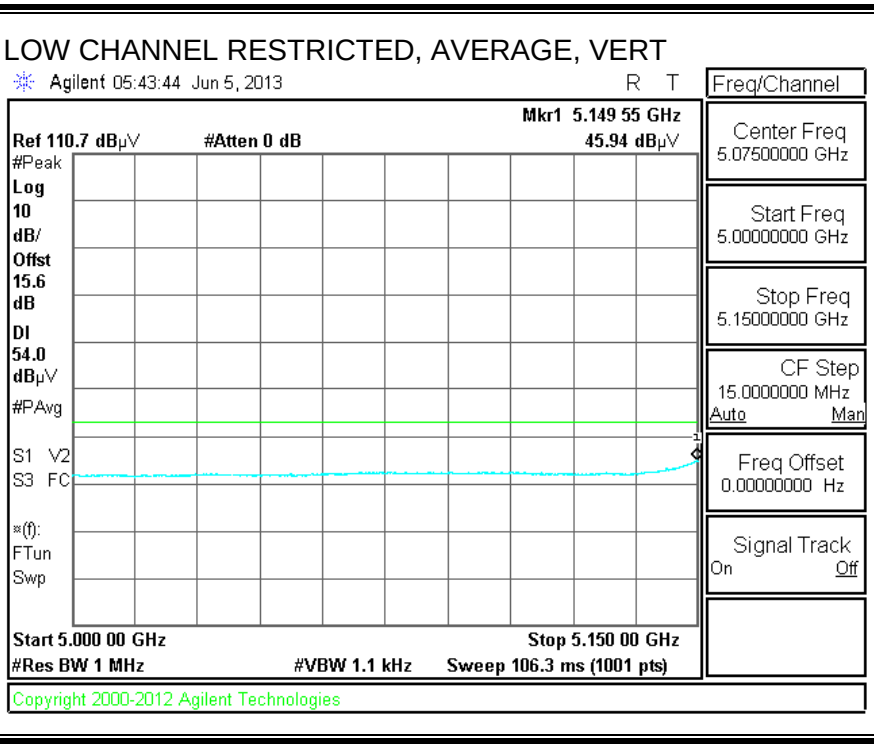




LOW CHANNEL RESTRICTED, PEAK, VERT

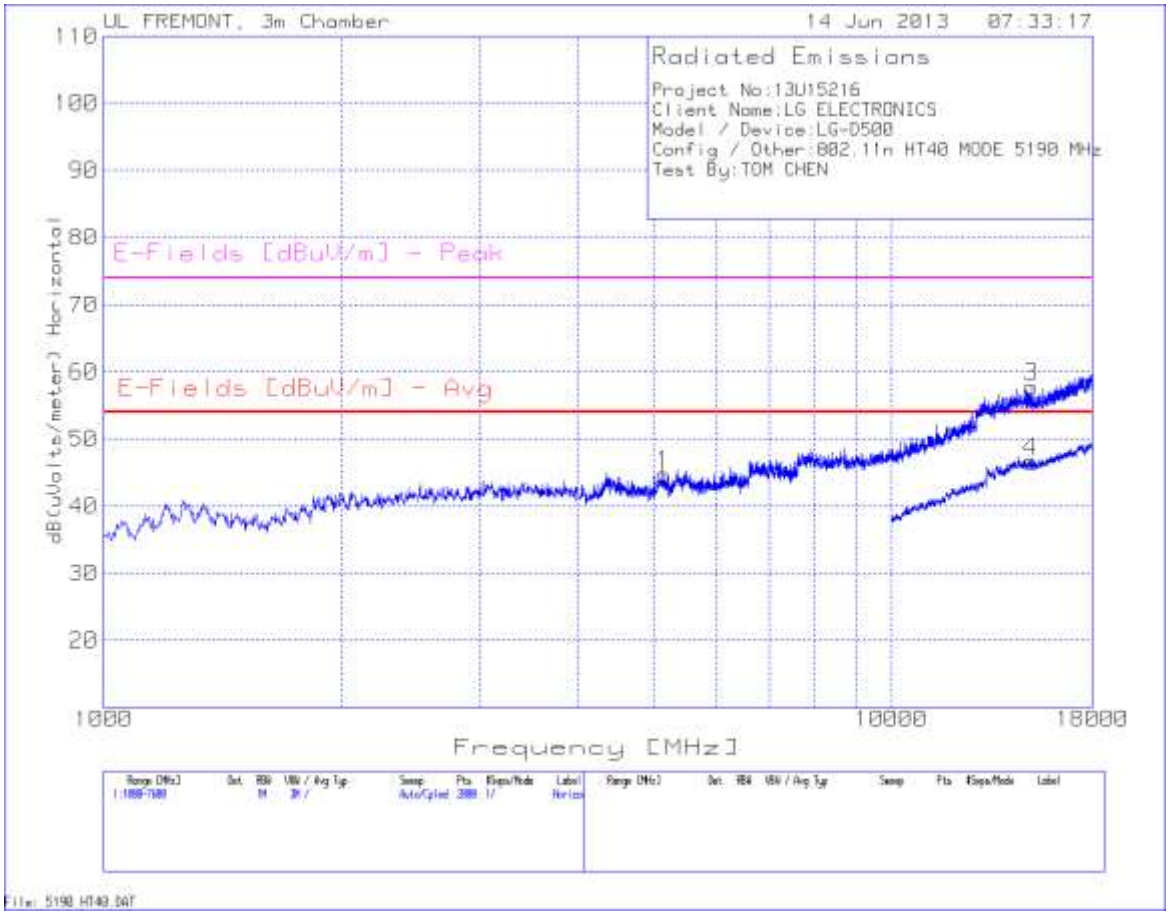


LOW CHANNEL RESTRICTED, AVERAGE, VERT

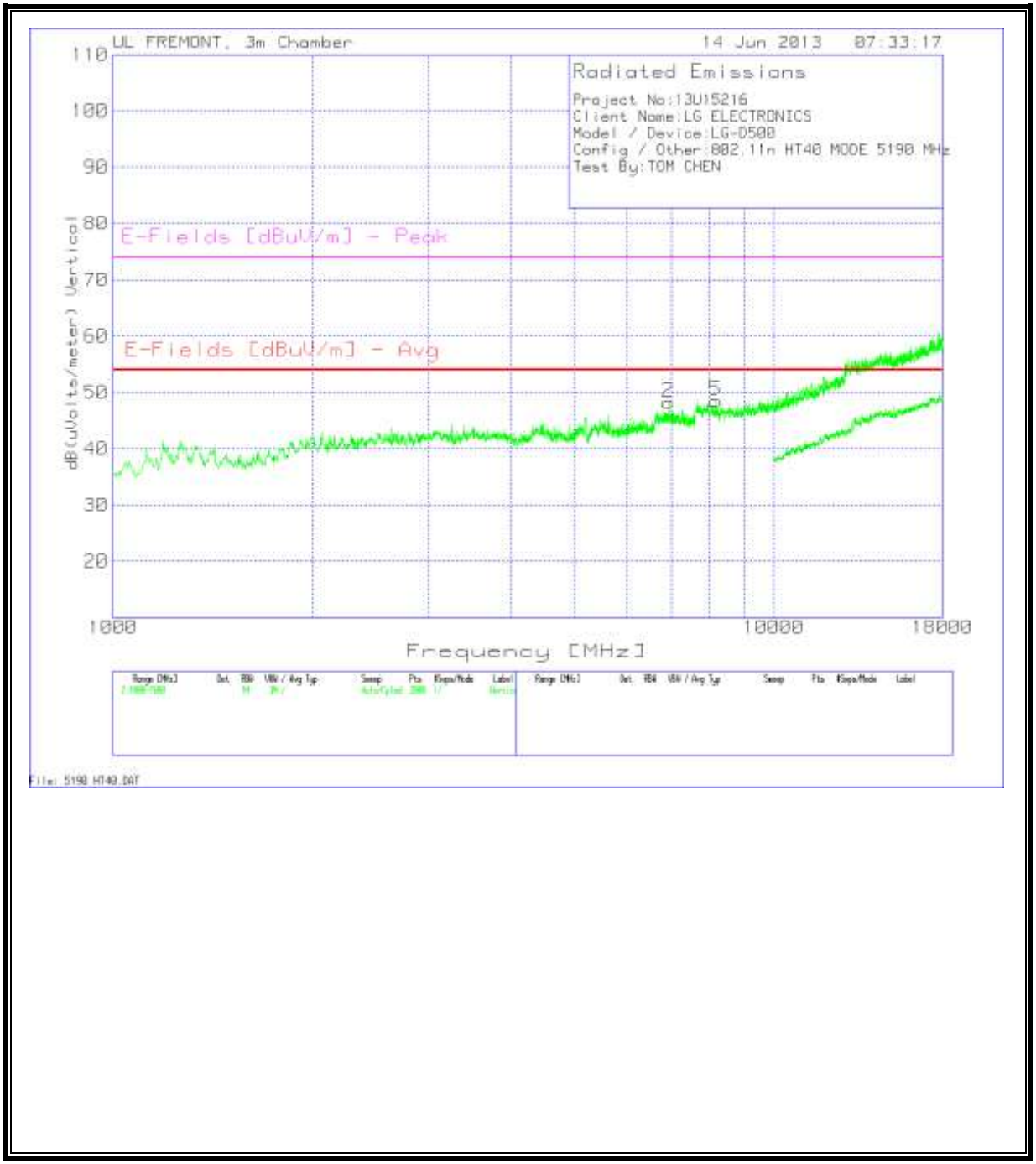


HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, HORIZONTAL



LOW CHANNEL, VERTICAL



DATA

Project No:13U15216
Client Name:LG ELECTRONICS
Model / Device:LG-D500
Config / Other:802.11n HT40 MODE 5190 MHz
Test By:TOM CHEN

Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor [dB/m]	T34 Preamp/Cable Loss [dB]	T159 BRF [dB]	DC Corr [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] Avg	Margin (dB)	E-Fields [dBuV/m] Peak	Margin (dB)	Height [cm]	Polarity
Horizontal 1000 - 7600MHz														
1	5142.729	34.42	PK	34.2	-24.8	0.9	0	44.72	53.97	-9.25	74	-29.28	119	Horz
Vertical 1000 - 7600MHz														
2*	6920.54	35.79	PK	35.6	-23.2	0.1	0	48.29	53.97	-5.68	74	-25.71	201	Vert
Horizontal 7600 - 18000MHz														
3*	15063.468	33.65	PK	39.8	-16.3	0.6	0	57.75	53.97	3.78	74	-16.25	201	Horz
Vertical 7600 - 18000MHz														
5	8156.122	34.85	PK	35.8	-22.3	0.2	0	48.55	53.97	-5.42	74	-25.45	100	Vert
Horizontal 10000 - 18000MHz														
4	15025.487	23.16	PK	39.8	-16.2	-0.1	0	46.66	53.97	-7.31	74	-27.34	201	Horz

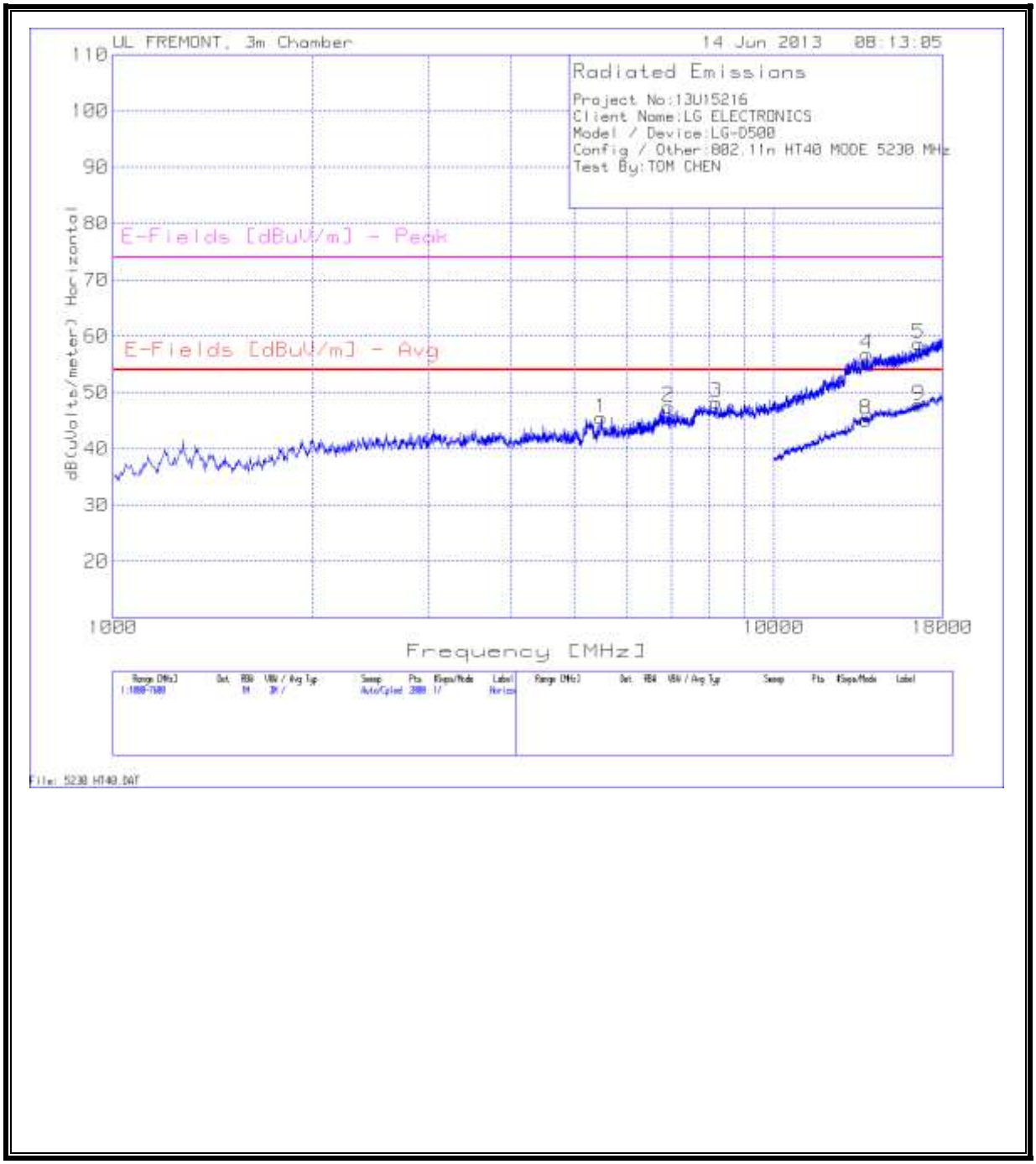
*=Not in the restricted band

Vertical 6015 - 18000MHz

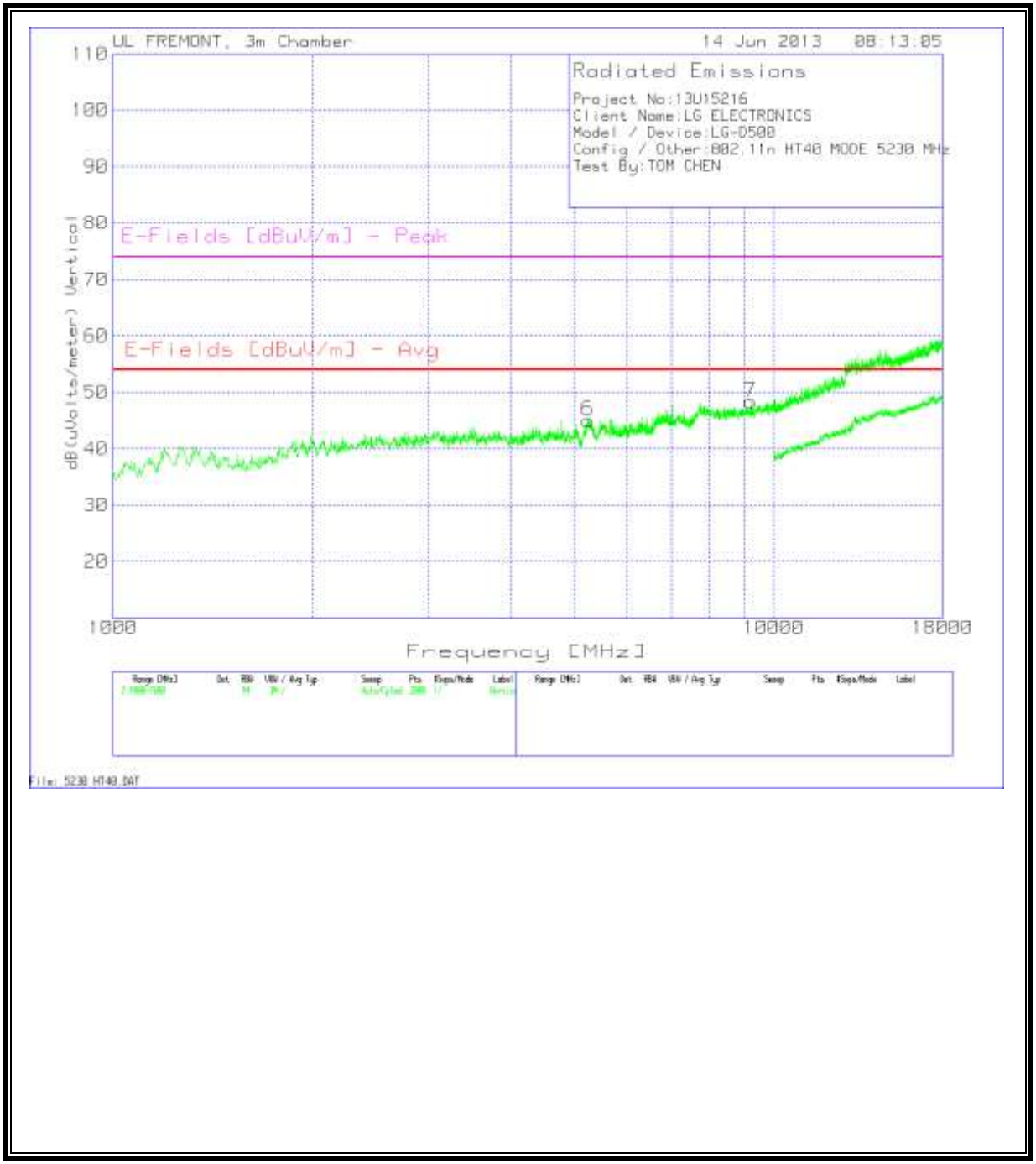
Test Frequency(MHz)	Meter Reading (dBuV)	Detector	AF T120 (dB/m)	Amp/Cbl /Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
8138.6486	26.97	AD1	36	-28.4	34.57	53.97	-19.4	74	-39.43	284	290	Vert

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector

HIGH CHANNEL, HORIZONTAL



HIGH CHANNEL, VERTICAL



DATA

Project No:13U15216
Client Name:LG ELECTRONICS
Model / Device:LG-D500
Config / Other:802.11n HT40 MODE 5230 MHz
Test By:TOM CHEN

Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor [dB/m]	T34 Preamp/Cable Loss [dB]	T159 BRF [dB]	DC Corr [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] Avg	Margin (dB)	E-Fields [dBuV/m] Peak	Margin (dB)	Height [cm]	Polarity
Horizontal 1000 - 7600MHz														
1	5469.265	34.29	PK	34.8	-24.5	0.9	0	45.49	53.97	-8.48	74	-28.51	201	Horz
2	6913.943	34.93	PK	35.6	-23.2	0.1	0	47.43	53.97	-6.54	74	-26.57	99	Horz
Vertical 1000 - 7600MHz														
6	5238.381	34.53	PK	34.3	-24.7	0.9	0	45.03	53.97	-8.94	74	-28.97	200	Vert
Horizontal 7600 - 18000MHz														
3	8187.306	34.24	PK	35.8	-22.2	0.4	0	48.24	53.97	-5.73	74	-25.76	99	Horz
4*	13821.289	33.75	PK	38.8	-15.9	0.2	0	56.85	53.97	2.88	74	-17.15	99	Horz
5*	16560.32	32.57	PK	41.2	-15.6	0.5	0	58.67	53.97	4.7	74	-15.33	201	Horz
Vertical 7600 - 18000MHz														
7*	9231.984	33.63	PK	36.3	-21.9	0.3	0	48.33	53.97	-5.64	74	-25.67	201	Vert
Horizontal 10000 - 18000MHz														
8	13810.095	22.1	PK	38.8	-15.9	0.1	0	45.1	53.97	-8.87	74	-28.9	99	Horz
9	16580.71	21.79	PK	41.2	-15.5	0.3	0	47.79	53.97	-6.18	74	-26.21	99	Horz

*=Not in the restricted band

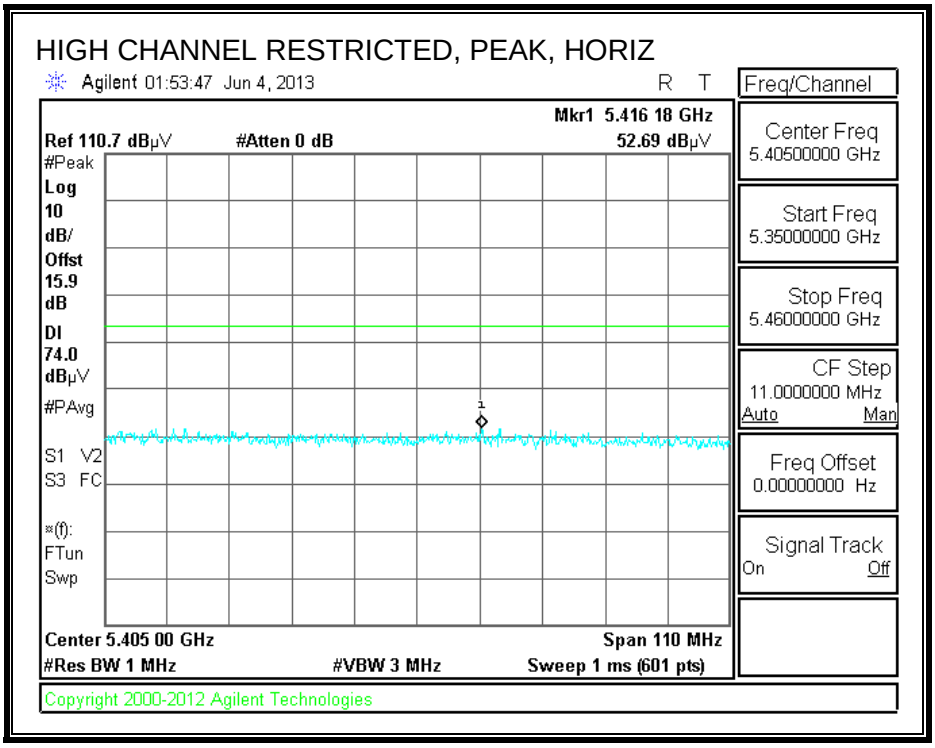
Horizontal 6015 - 18000MHz

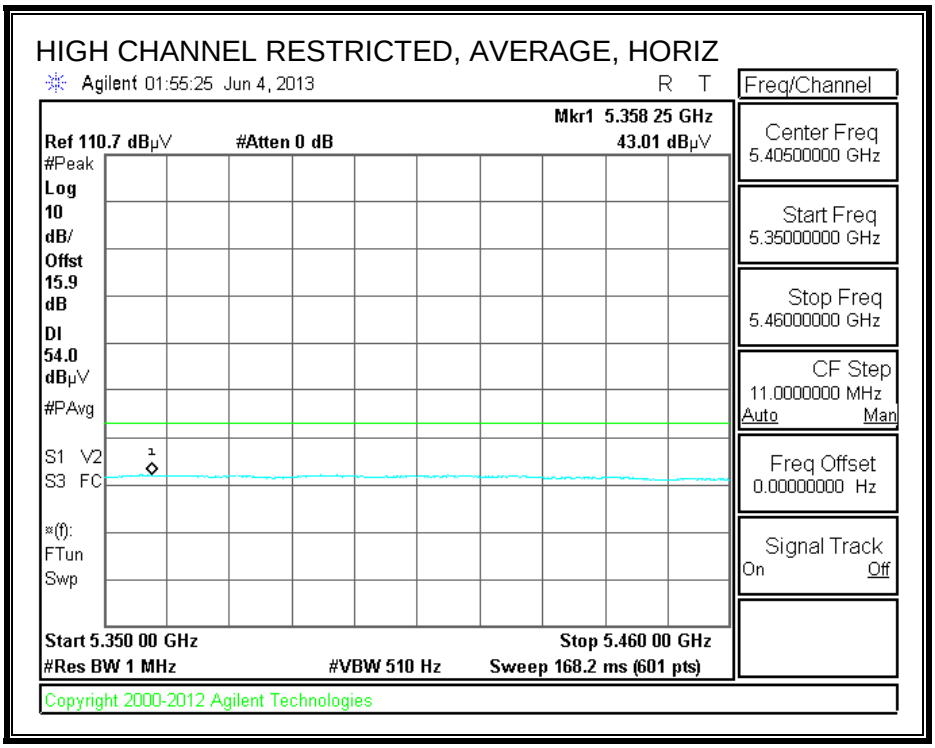
Test Frequency(MHz)	Meter Reading (dBuV)	Detector	AF T120 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
8179.786	26.46	AD1	36	-28.6	33.86	53.97	-20.11	74	-40.14	136	156	Horz

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector

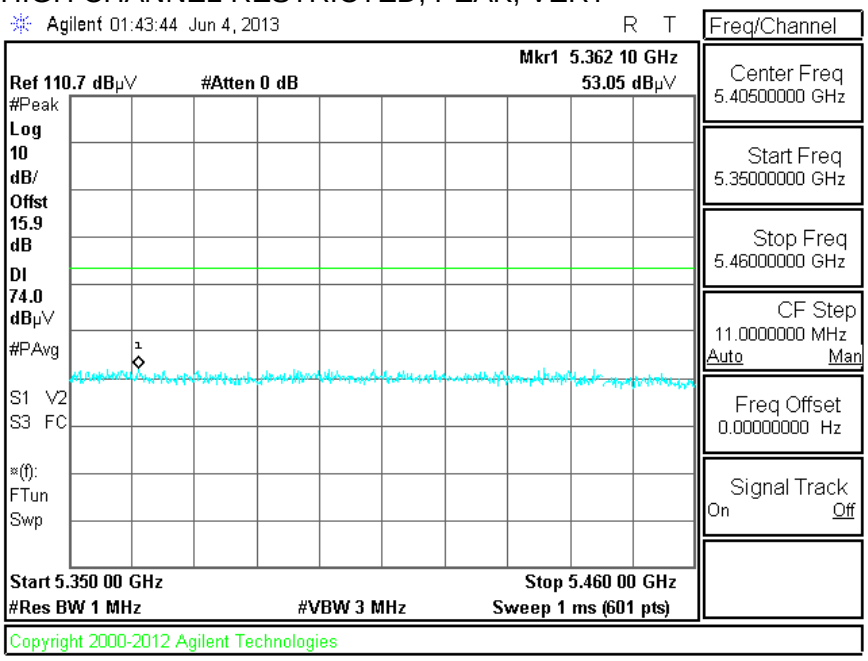
7.5. TX ABOVE 1 GHz 802.11a MODE IN THE 5.3 GHz BAND

RESTRICTED BANDEDGE (HIGH CHANNEL)

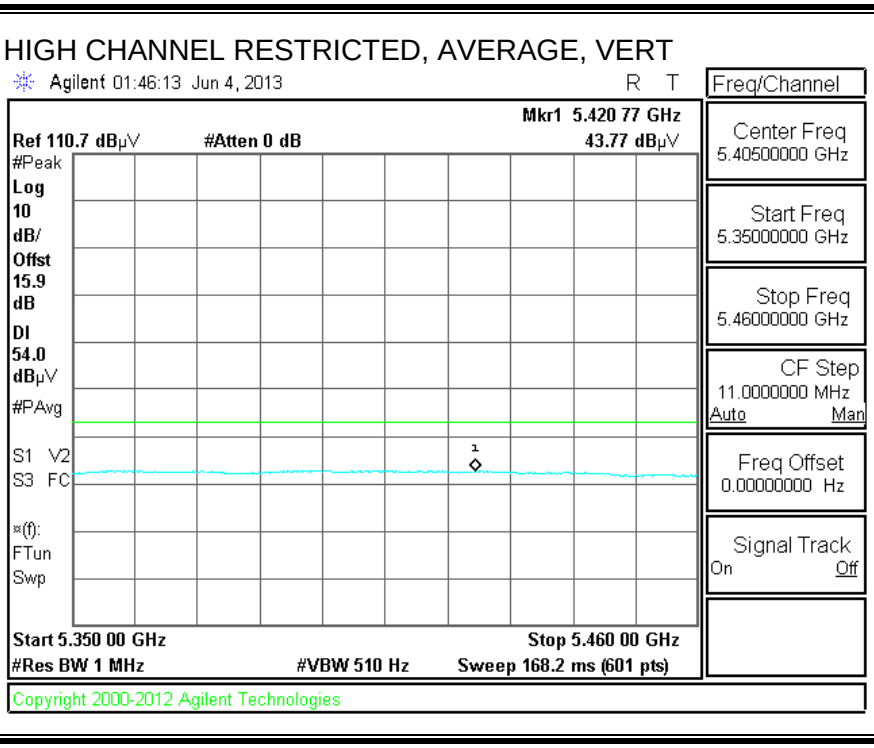




HIGH CHANNEL RESTRICTED, PEAK, VERT

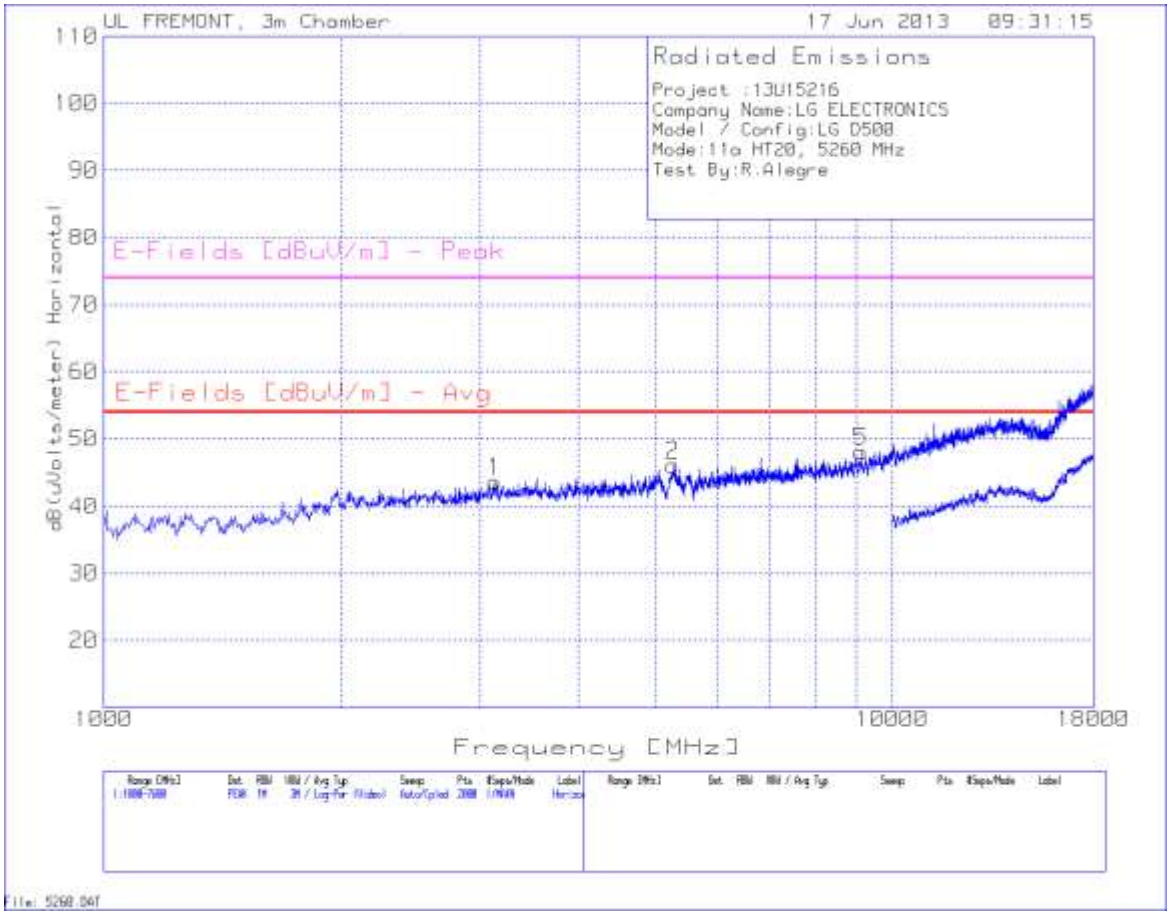


HIGH CHANNEL RESTRICTED, AVERAGE, VERT

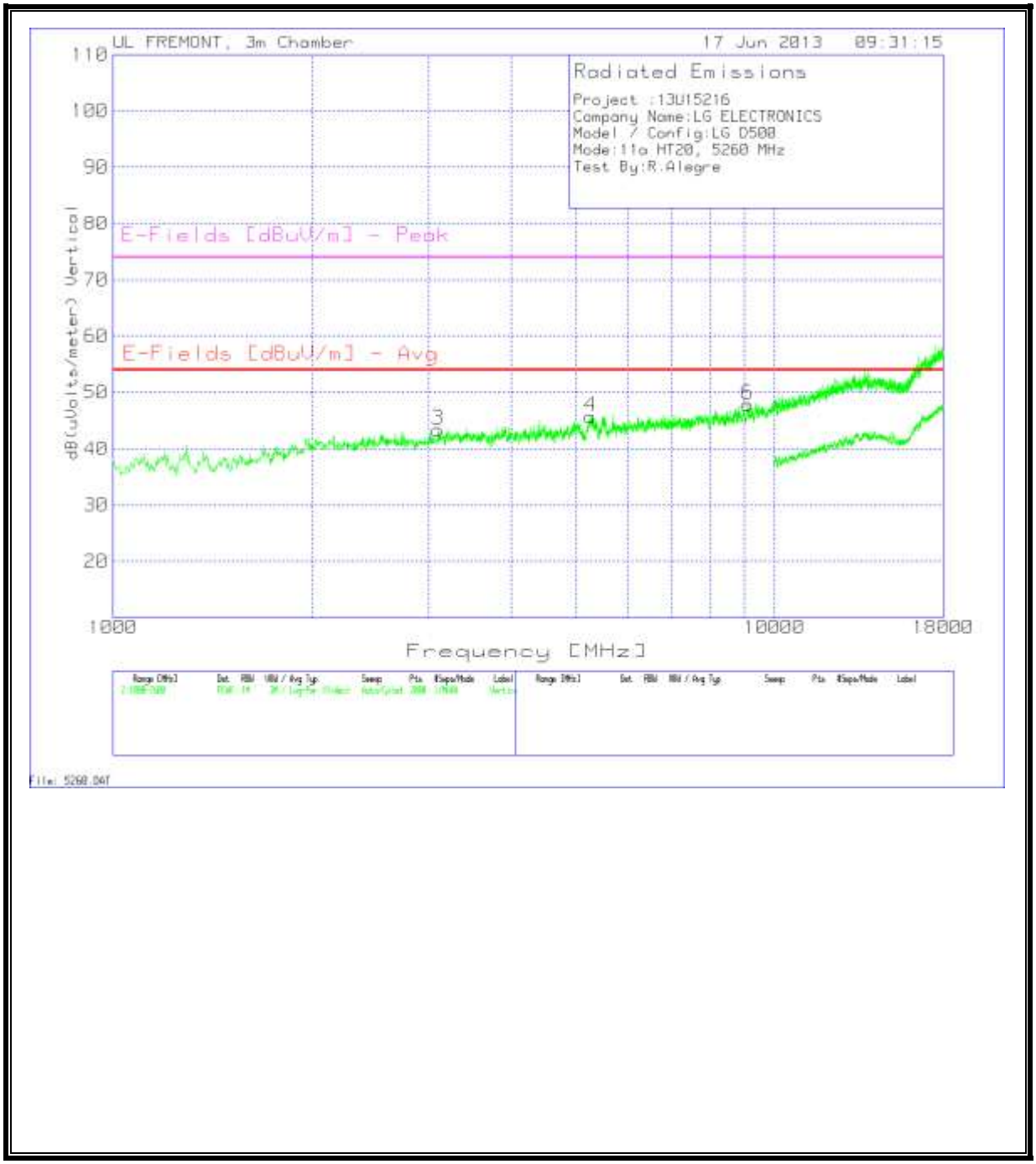


HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, HORIZONTAL



LOW CHANNEL, VERTICAL



DATA

Project :13U15216
Company Name:LG ELECTRONICS
Model / Config:LG D500
Mode:11a HT20, 5260 MHz
Test By:R.Alegre

Horizontal 1000 - 7600MHz

Marker No.	Frequency (MHz)	Reading (dBuV)	Detector	Factor [dB/m]	Preamp Gain [dB]	Factor [dB]	T159 BRF [dB]	dB(uVolts /meter)	[dBuV/m] - Avg	Margin (dB)	[dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
1	3134.033	40.25	PK	33.2	-35.2	5.4	0	43.65	53.97	-10.32	74	-30.35	100	Horz
2	5268.066	37.8	PK	34.9	-34.9	7.4	0.9	46.1	53.97	-7.87	74	-27.9	100	Horz

Vertical 1000 - 7600MHz

Marker No.	Test Frequency	Meter Reading	Detector	Factor [dB/m]	Preamp Gain [dB]	Factor [dB]	T159 BRF [dB]	dB(uVolts /meter)	[dBuV/m] - Avg	Margin (dB)	[dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
3	3097.751	39.84	PK	33.2	-35.2	5.4	0.1	43.34	53.97	-10.63	74	-30.66	200	Vert
4	5268.066	37.36	PK	34.9	-34.9	7.4	0.9	45.66	53.97	-8.31	74	-28.34	100	Vert

Horizontal 7600 - 18000MHz

Marker No.	Test Frequency	Meter Reading	Detector	Factor [dB/m]	Preamp Gain [dB]	Factor [dB]	T192 HPF [dB]	dB(uVolts /meter)	[dBuV/m] - Avg	Margin (dB)	[dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
5	9133.233	36.26	PK	36.9	-35.2	10	0.2	48.16	53.97	-5.81	74	-25.84	100	Horz

Vertical 7600 - 18000MHz

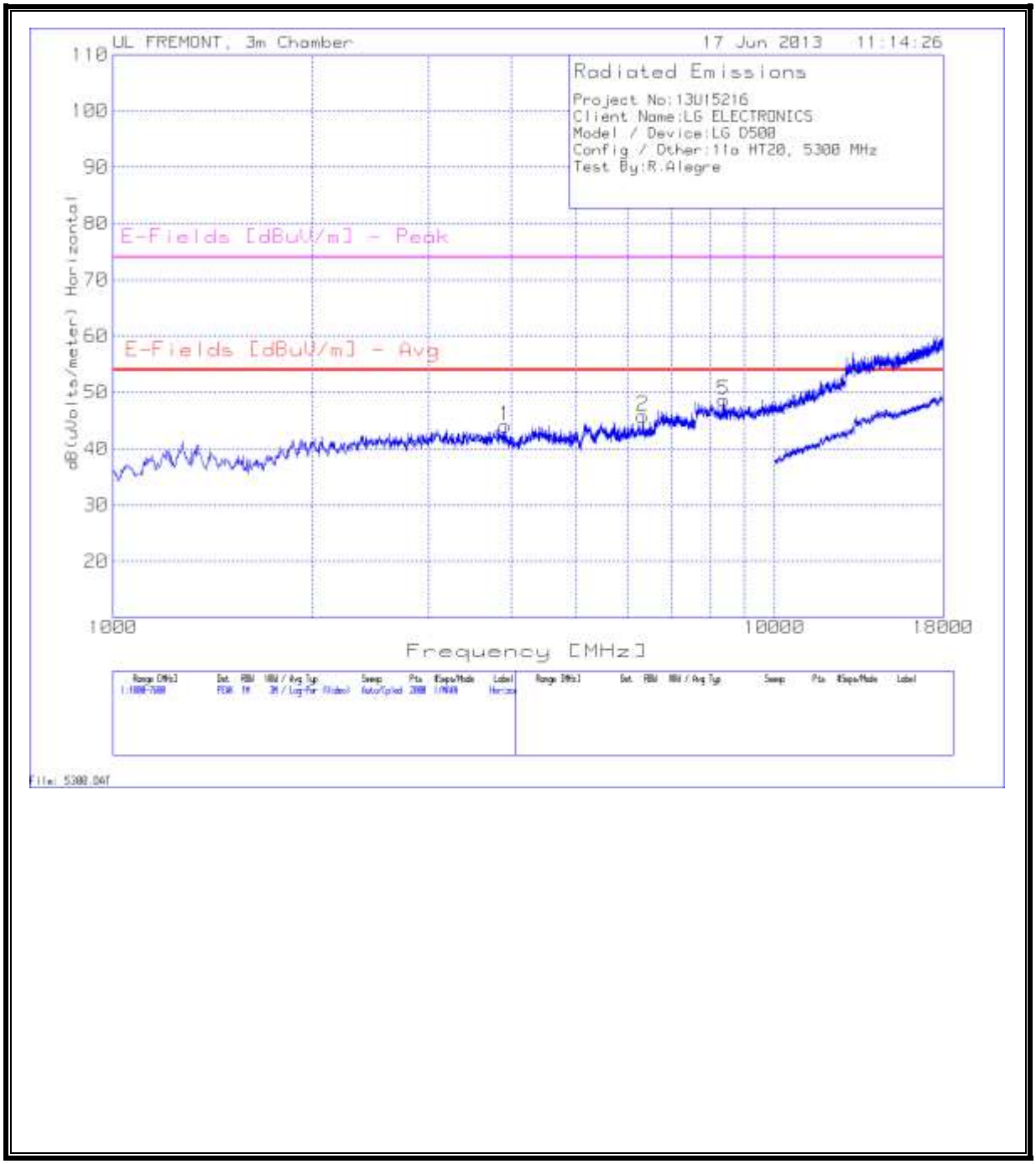
Marker No.	Test Frequency	Meter Reading	Detector	T345 Ant Factor	T145 Preamp	Cable Factor	T192 HPF [dB]	dB(uVolts /meter)	E-Fields [dBuV/m]	Margin (dB)	E-Fields [dBuV/m]	Margin (dB)	Height [cm]	Polarity
6	9112.444	36.19	PK	36.8	-35.2	10	0.1	47.89	53.97	-6.08	74	-26.11	100	Vert

Horizontal 6015 - 18000MHz

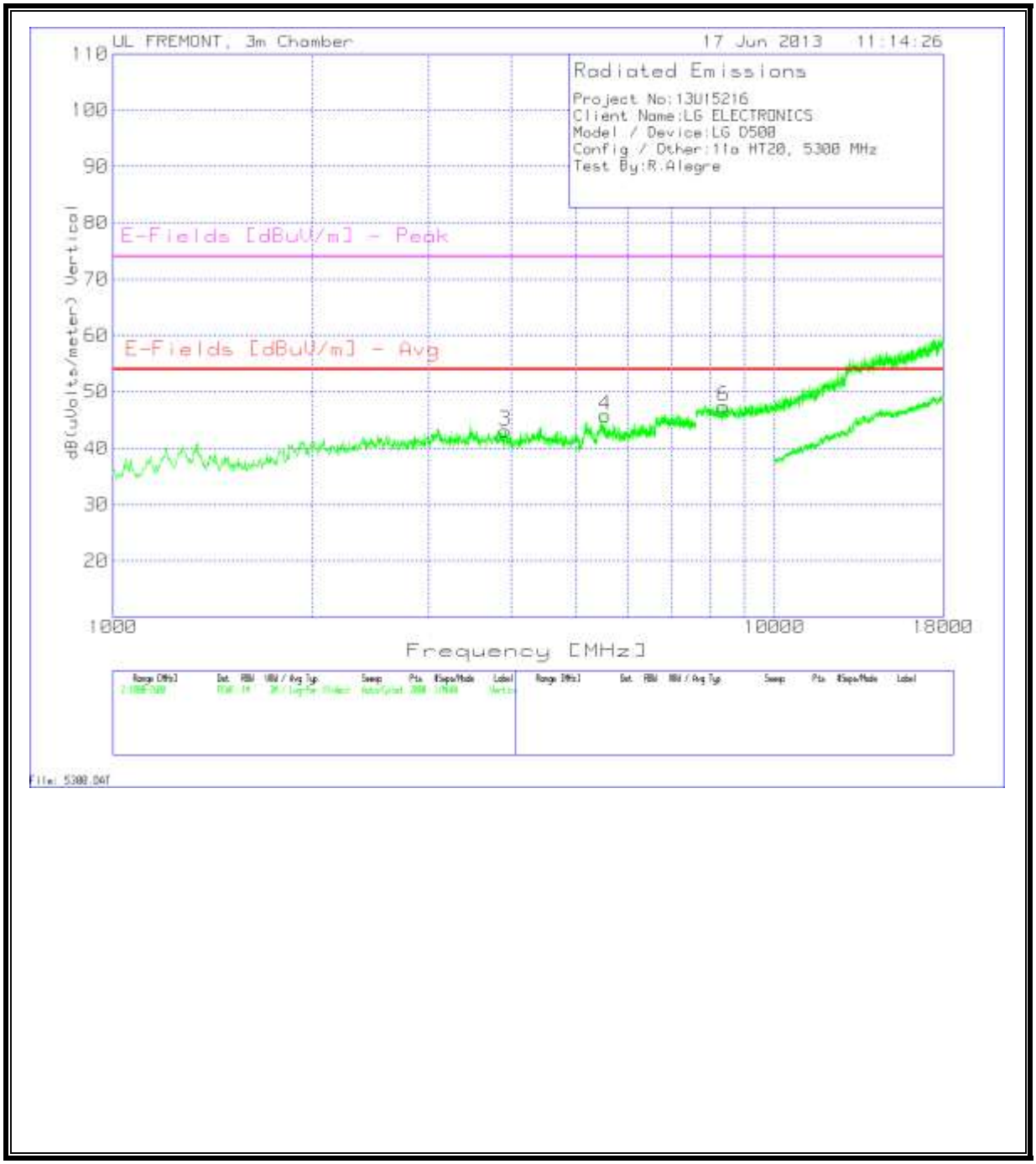
Test Frequency(MHz)	Meter Reading (dBuV)	Detector	AF T120 (dB/m)	Amp/Cbl /Fltr/Pad (dB)	Corrected Reading	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
9148.4064	25.69	AD1	36.5	-27	35.19	53.97	-18.78	74	-38.81	94	188	Horz

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector

MID CHANNEL, HORIZONTAL



MID CHANNEL, VERTICAL



DATA

Project No:13U15216
Client Name:LG ELECTRONICS
Model / Device:LG D500
Config / Other:11a HT20, 5300 MHz
Test By:R.Alegre

Horizontal 1000 - 7600MHz

Marker No.	Test Frequency(MHz)	Meter Reading(dBuV)	Detector	T119 Ant Factor	T34 Preamp/	T159 BRF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m	Margin (dB)	E-Fields [dBuV/m	Margin (dB)	Height [cm]	Polarity
1	3912.444	37.25	PK	33.3	-26.5	0	44.05	53.97	-9.92	74	-29.95	100	Horz
2	6326.837	34.17	PK	35.4	-23.7	0	45.87	53.97	-8.1	74	-28.13	201	Horz

Vertical 1000 - 7600MHz

Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor	T34 Preamp/	T159 BRF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m	Margin (dB)	E-Fields [dBuV/m	Margin (dB)	Height [cm]	Polarity
3	3912.444	36.31	PK	33.3	-26.5	0	43.11	53.97	-10.86	74	-30.89	100	Vert
4	5548.426	35.02	PK	34.8	-24.4	0.4	45.82	53.97	-8.15	74	-28.18	201	Vert

Horizontal 7600 - 18000MHz

Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor	T34 Preamp/	T193 HPF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m	Margin (dB)	E-Fields [dBuV/m	Margin (dB)	Height [cm]	Polarity
5	8384.808	34.81	PK	35.8	-22.2	0.2	48.61	53.97	-5.36	74	-25.39	99	Horz

Vertical 7600 - 18000MHz

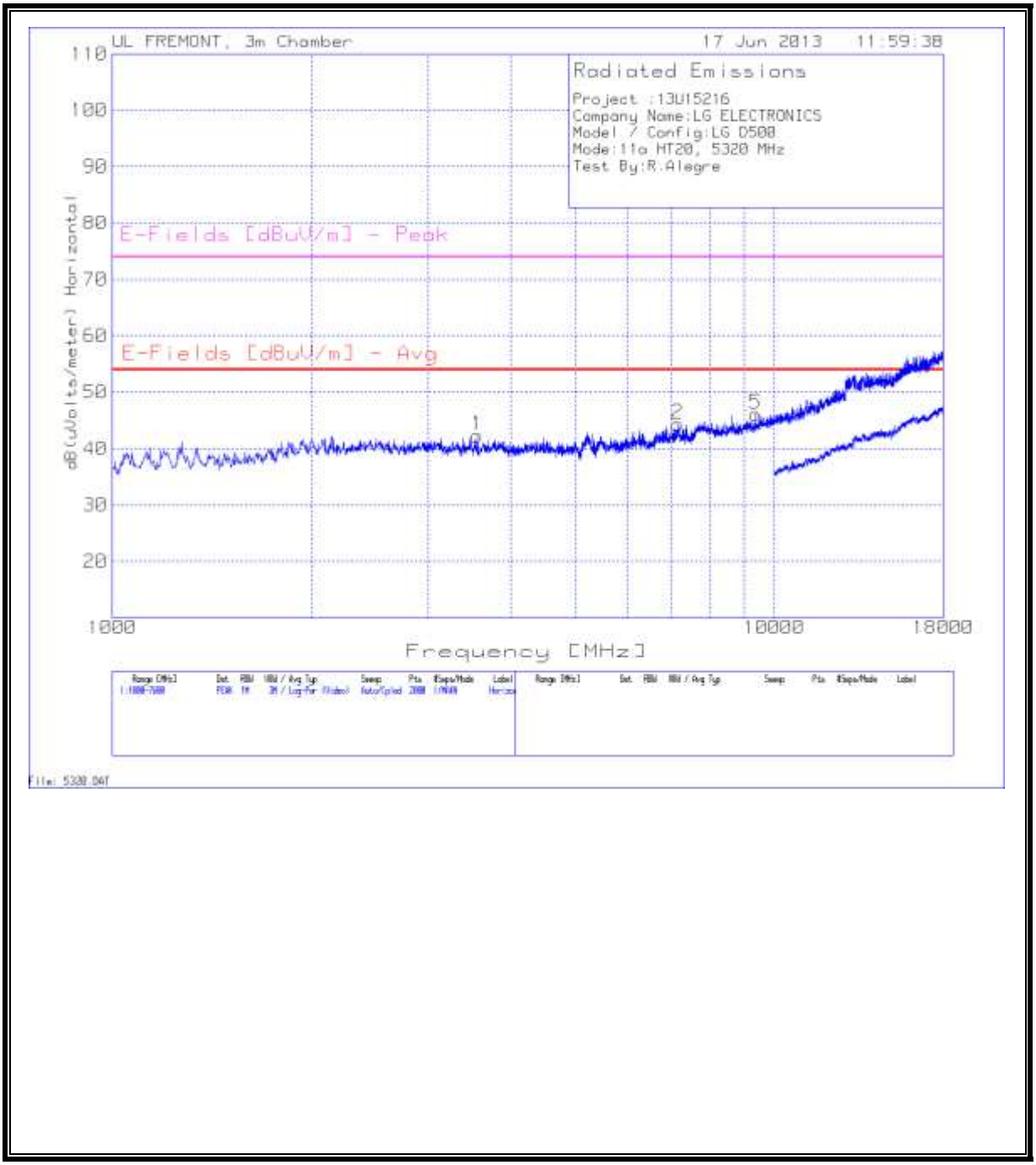
Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor	T34 Preamp/	T193 HPF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m	Margin (dB)	E-Fields [dBuV/m	Margin (dB)	Height [cm]	Polarity
6	8390.005	33.4	PK	35.8	-22.1	0.3	47.4	53.97	-6.57	74	-26.6	201	Vert

Horizontal 6015 - 18000MHz

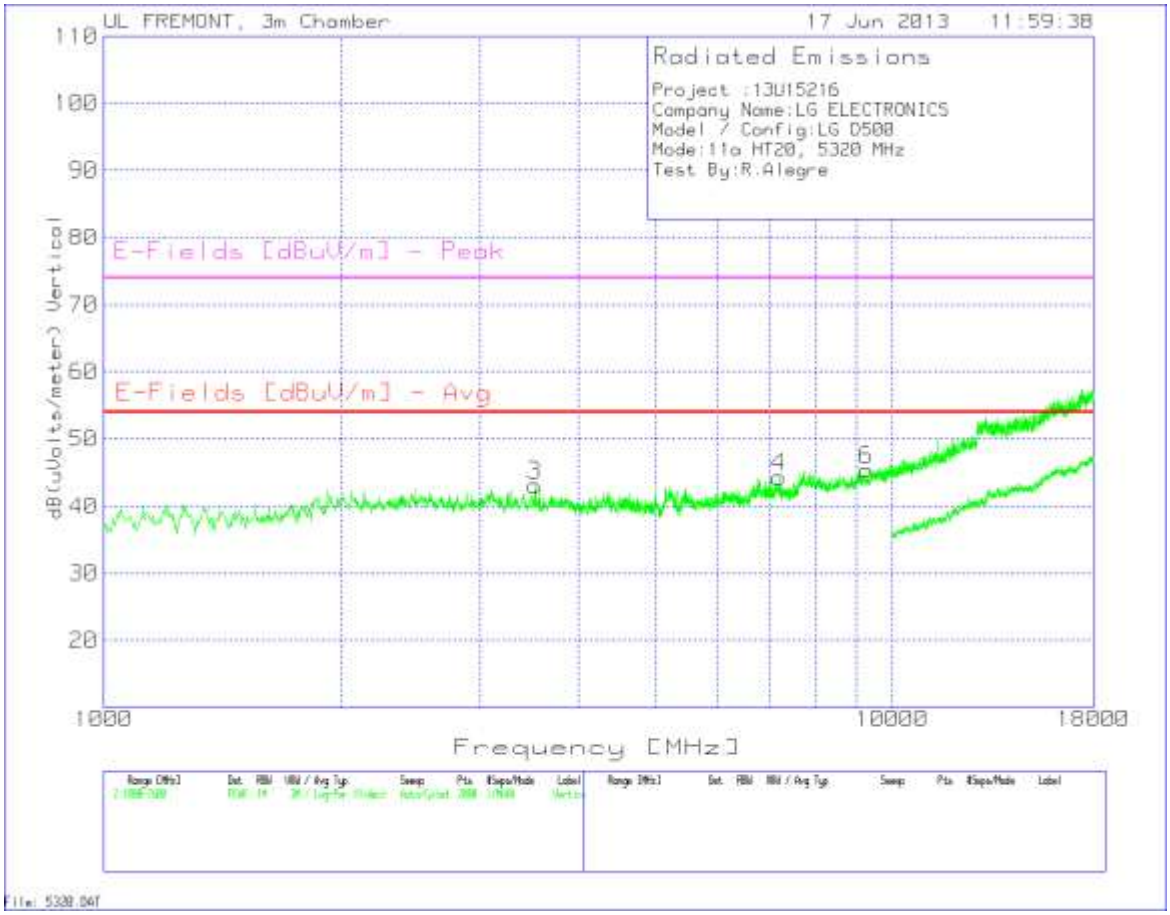
Test Frequency(MHz)	Meter Reading (dBuV)	Detector	AF T120 (dB/m)	Amp/Cbl /Fltr/Pad	Corrected	Avg Limit (dBuV/m	Margin (dB)	Peak Limit	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
8379.5147	26.4	AD1	36	-28.2	34.2	53.97	-19.77	74	-39.8	329	383	Horz

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector

HIGH CHANNEL, HORIZONTAL



HIGH CHANNEL, VERTICAL



DATA

Company Name:LG ELECTRONICS
Model / Config:LG D500
Mode:11a HT20, 5320 MHz
Test By:R.Alegre

Horizontal 1000 - 7600MHz

Marker No.	Test Frequency(MHz)	Meter Reading(dBuV)	Detector	T345 Ant Factor	T145 Preamp	Cable Factor	T159 BRF [dB]	dB(uVolt s/meter)	E-Fields [dBuV/m	Margin (dB)	E-Fields [dBuV/m	Margin (dB)	Height [cm]	Polarity
1	3552.924	38.25	PK	33.3	-35	5.8	0	42.35	53.97	-11.62	74	-31.65	100	Horz
2	7138.231	34.77	PK	35.8	-35	8.8	0	44.37	53.97	-9.6	74	-29.63	100	Horz

Vertical 1000 - 7600MHz

Marker No.	Test Frequency	Meter Reading	Detector	T345 Ant Factor	T145 Preamp	Cable Factor	T159 BRF [dB]	dB(uVolt s/meter)	E-Fields [dBuV/m	Margin (dB)	E-Fields [dBuV/m	Margin (dB)	Height [cm]	Polarity
3	3523.238	39.04	PK	33.3	-35	5.8	0	43.14	53.97	-10.83	74	-30.86	200	Vert
4	7177.811	34.75	PK	35.8	-35	8.8	0	44.35	53.97	-9.62	74	-29.65	100	Vert

Horizontal 7600 - 18000MHz

Marker No.	Test Frequency	Meter Reading	Detector	T345 Ant Factor	T145 Preamp	Cable Factor	T192 HPF [dB]	dB(uVolt s/meter)	E-Fields [dBuV/m	Margin (dB)	E-Fields [dBuV/m	Margin (dB)	Height [cm]	Polarity
5	9372.314	33.74	PK	37	-35.1	10.1	0.4	46.14	53.97	-7.83	74	-27.86	100	Horz

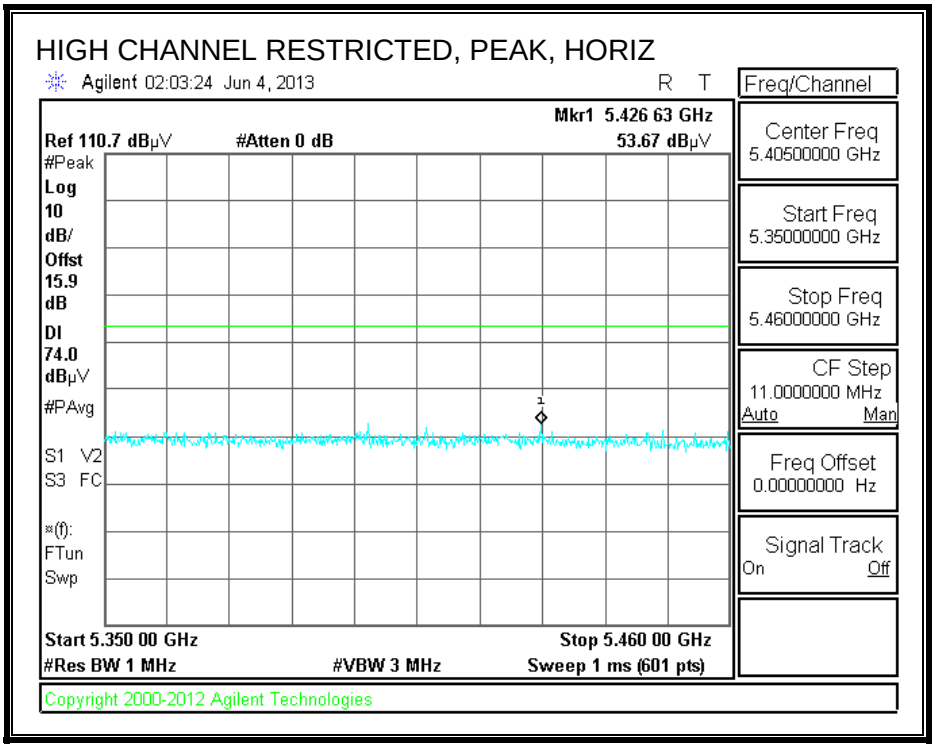
Vertical 7600 - 18000MHz

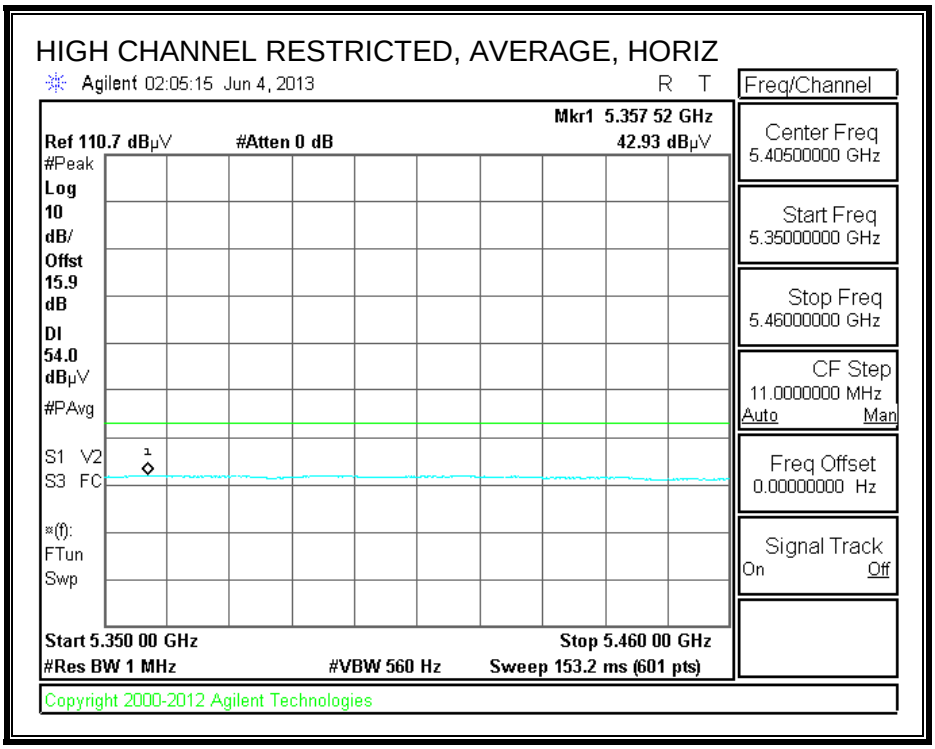
Marker No.	Test Frequency	Meter Reading	Detector	T345 Ant Factor	T145 Preamp	Cable Factor	T192 HPF [dB]	dB(uVolt s/meter)	E-Fields [dBuV/m	Margin (dB)	E-Fields [dBuV/m	Margin (dB)	Height [cm]	Polarity
6	9278.761	33.4	PK	36.9	-35.2	10.1	0.2	45.4	53.97	-8.57	74	-28.6	100	Vert

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector

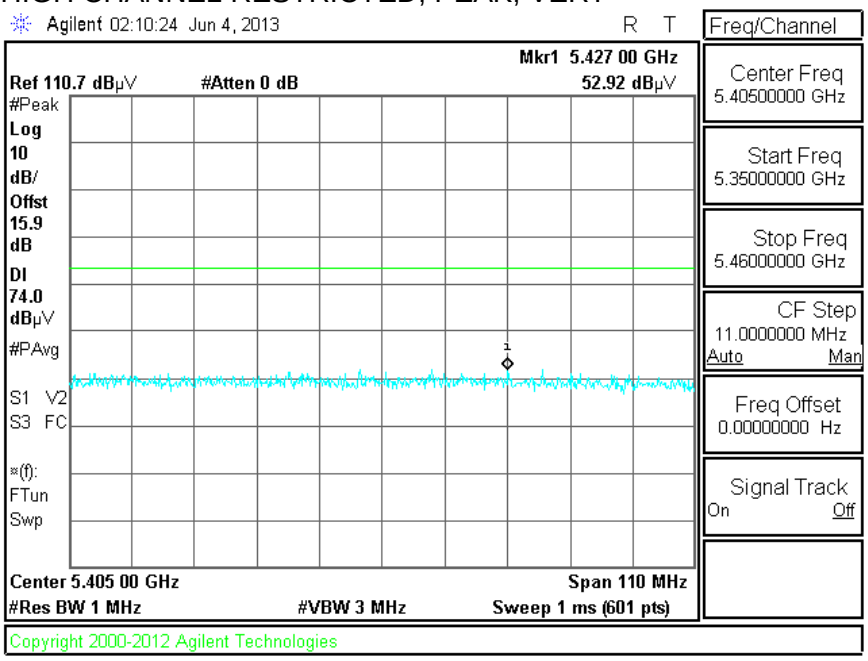
7.6. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.3 GHz BAND

RESTRICTED BANDEDGE (HIGH CHANNEL)

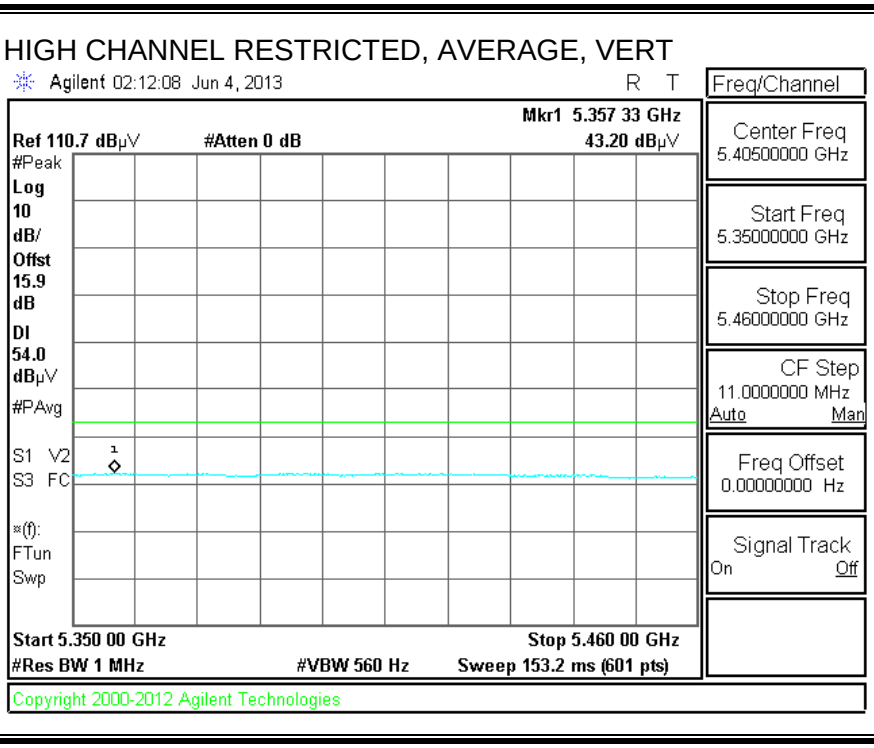




HIGH CHANNEL RESTRICTED, PEAK, VERT

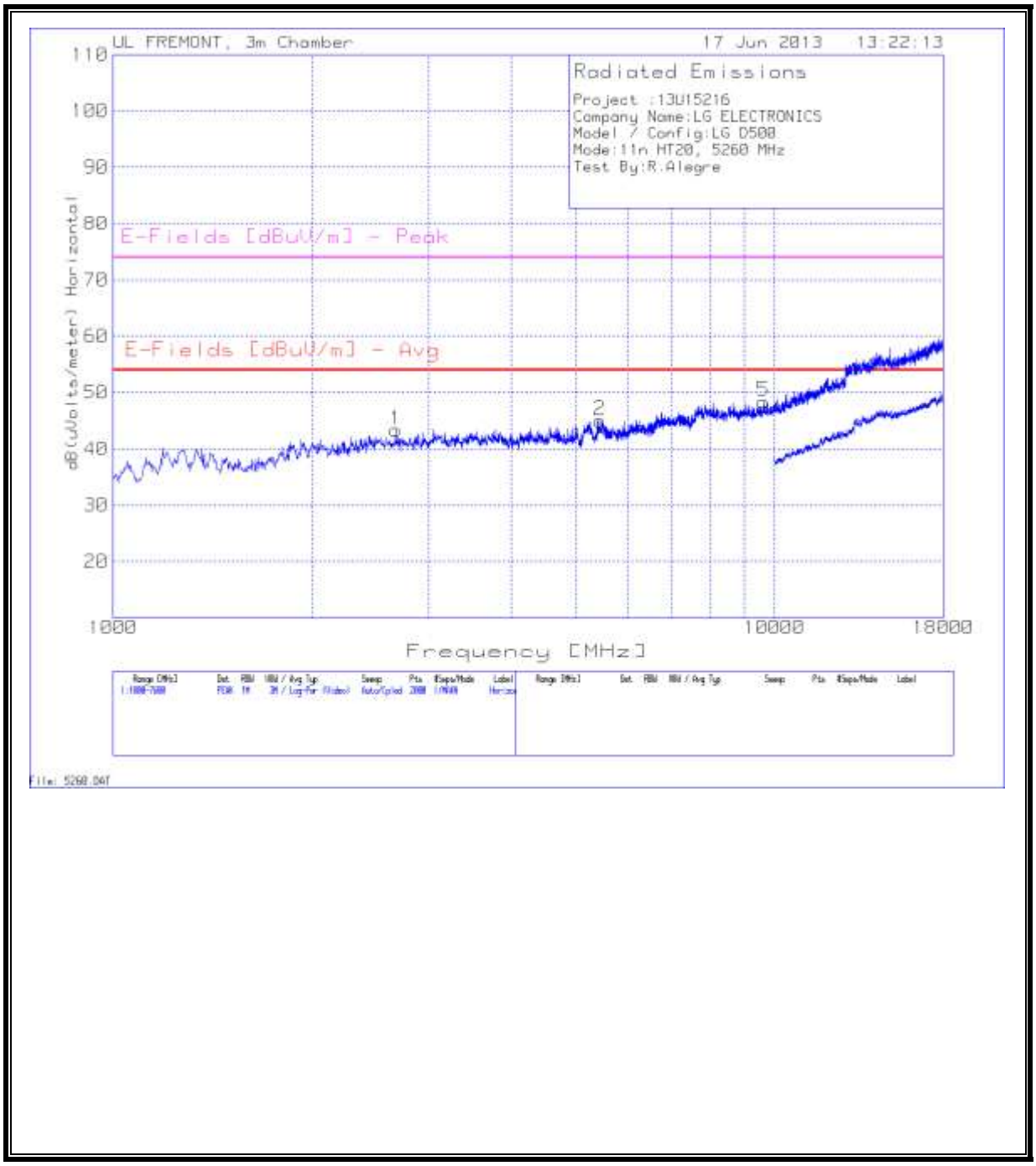


HIGH CHANNEL RESTRICTED, AVERAGE, VERT

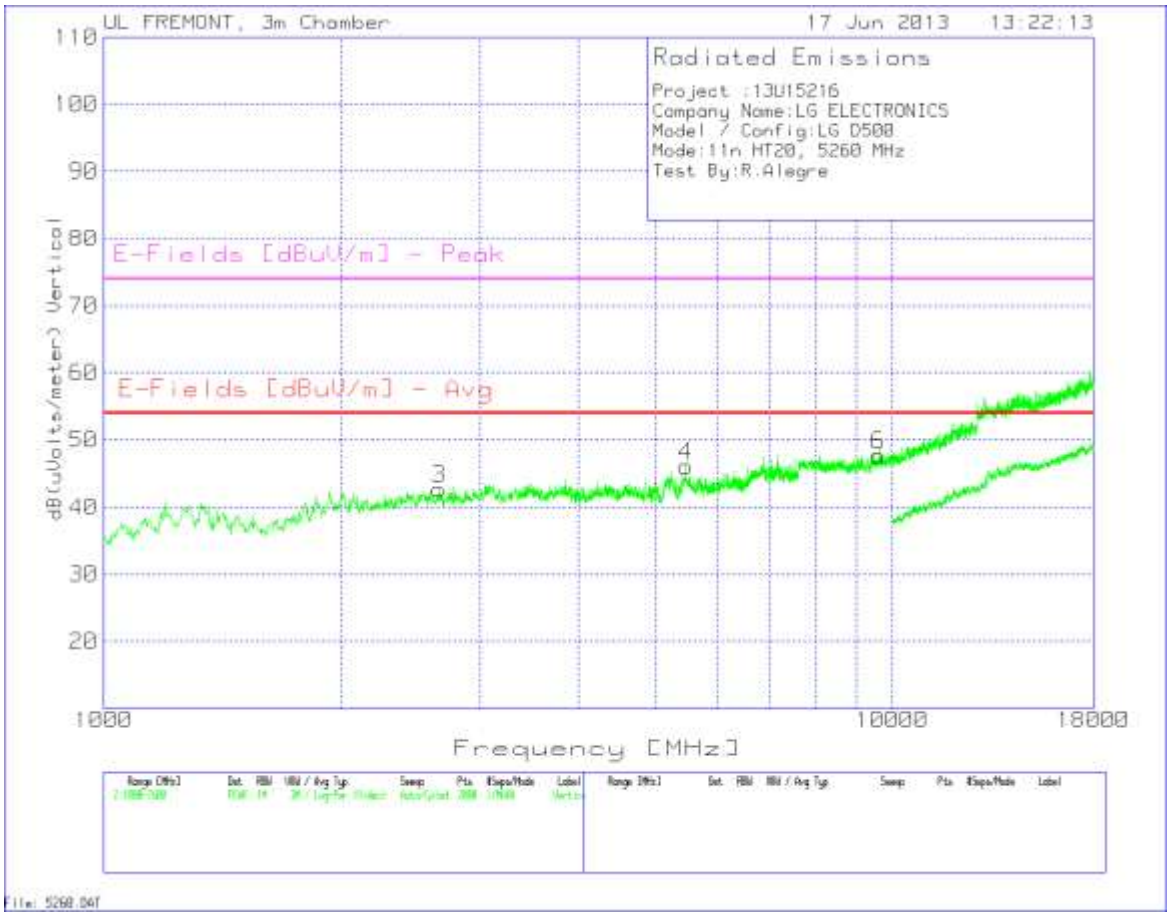


HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, HORIZONTAL



LOW CHANNEL, VERTICAL



DATA

Project :13U15216
Company Name:LG ELECTRONICS
Model / Config:LG D500
Mode:11n HT20, 5260 MHz
Test By:R.Alegre

Horizontal 1000 - 7600MHz

Marker No.	Test Frequency(MHz)	Meter Reading(dBuV)	Detector	Factor [dB/m]	Preamp/ Cable	T159 BRF [dB]	dB(uVolts/meter)	[dBuV/m] - Avg	Margin (dB)	[dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
1	2672.264	39.72	PK	32.6	-29.1	0.1	43.32	53.97	-10.65	74	-30.68	201	Horz
2	5446.177	33.8	PK	34.8	-24.5	0.9	45	53.97	-8.97	74	-29	201	Horz

Vertical 1000 - 7600MHz

Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor	T34 Preamp/	T159 BRF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m	Margin (dB)	E-Fields [dBuV/m	Margin (dB)	Height [cm]	Polarity
3	2659.07	39.23	PK	32.6	-29.1	0	42.73	53.97	-11.24	74	-31.27	99	Vert
4	5479.16	34.95	PK	34.8	-24.5	0.9	46.15	53.97	-7.82	74	-27.85	99	Vert

Horizontal 7600 - 18000MHz

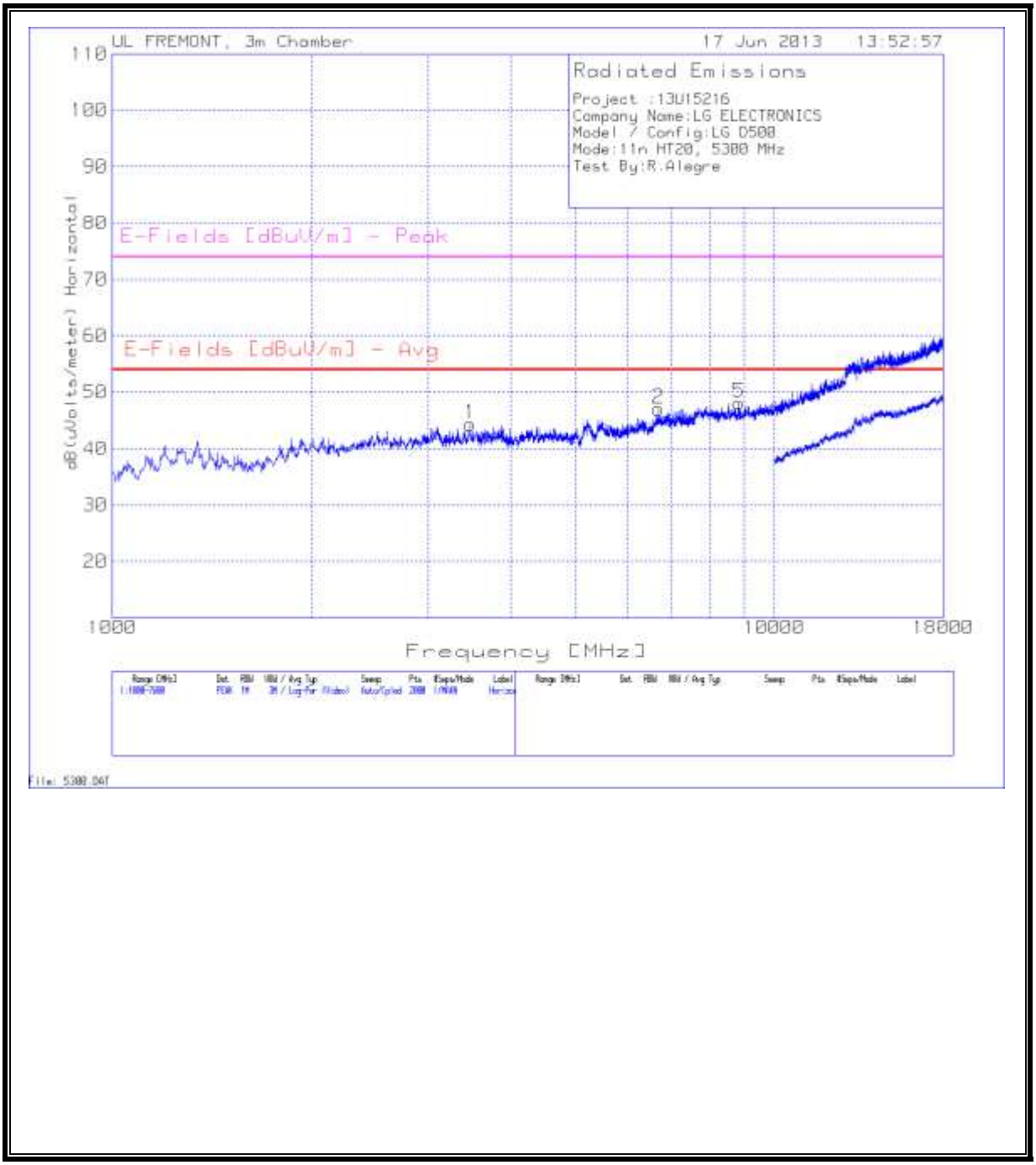
Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor	T34 Preamp/	T193 HPF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m	Margin (dB)	E-Fields [dBuV/m	Margin (dB)	Height [cm]	Polarity
5*	9616.592	33.08	PK	36.7	-21.8	0.4	48.38	53.97	-5.59	74	-25.62	201	Horz

Vertical 7600 - 18000MHz

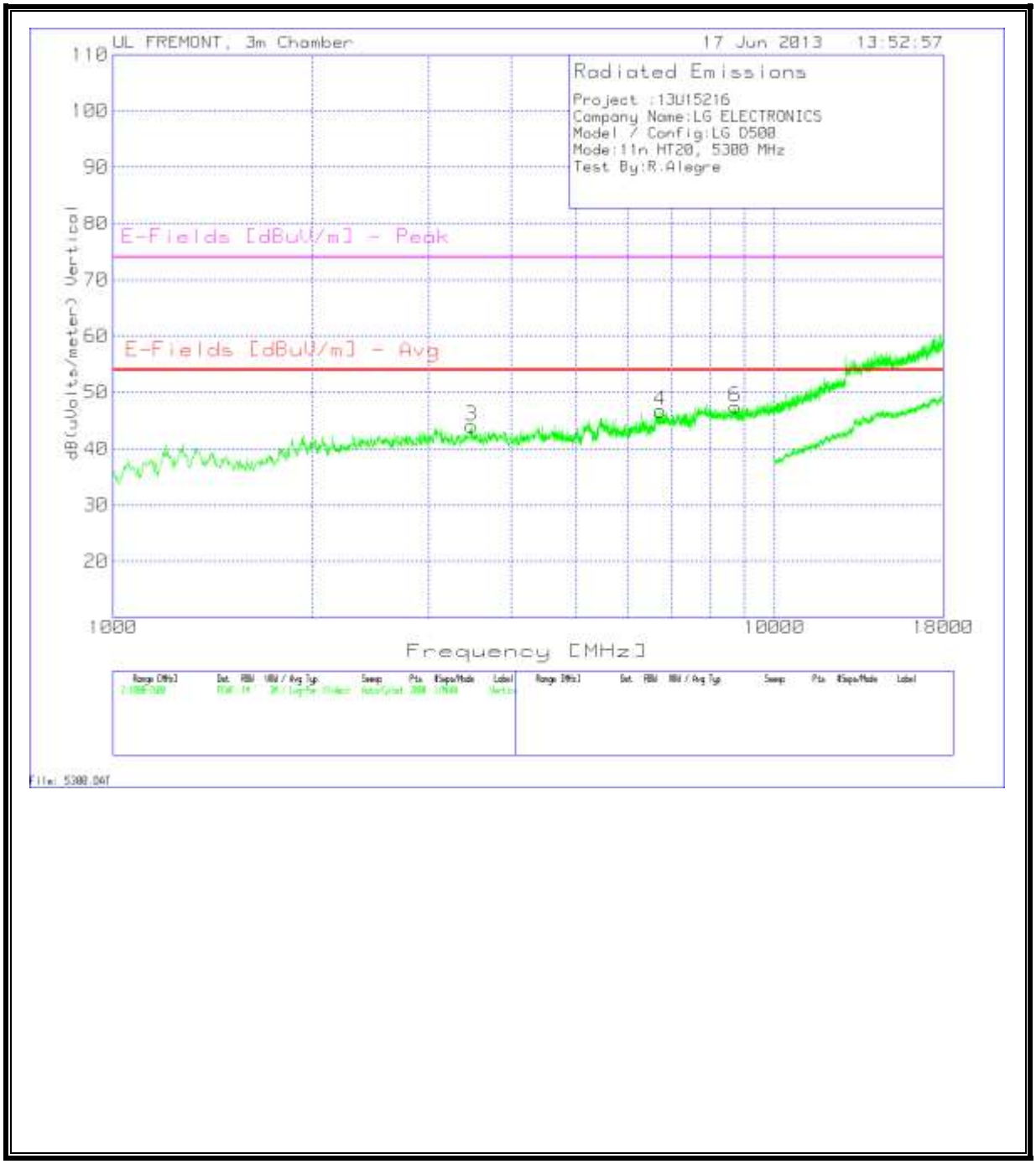
Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor	T34 Preamp/	T193 HPF [dB]	dB(uVolts/meter)	E-Fields [dBuV/m	Margin (dB)	E-Fields [dBuV/m	Margin (dB)	Height [cm]	Polarity
6	9606.197	32.42	PK	36.7	-21.8	0.4	47.72	53.97	-6.25	74	-26.28	99	Vert

*=Not in the restricted band
PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector

MID CHANNEL, HORIZONTAL



MID CHANNEL, VERTICAL



DATA

Project :13U15216
Company Name:LG ELECTRONICS
Model / Config:LG D500
Mode:11n HT20, 5300 MHz
Test By:R.Alegre

Horizontal 1000 - 7600MHz

Marker No.	Test Frequency(MHz)	Meter Reading(dBuV)	Detector	T119 Ant Factor	T34 Preamp/	T159 BRF [dB]	dB(uVolt s/meter)	E-Fields [dBuV/m	Margin (dB)	E-Fields [dBuV/m	Margin (dB)	Height [cm]	Polarity
1	3473.763	38.68	PK	33	-27.3	0	44.38	53.97	-9.59	74	-29.62	201	Horz
2	6686.357	34.79	PK	35.6	-23.4	0.1	47.09	53.97	-6.88	74	-26.91	99	Horz

Vertical 1000 - 7600MHz

Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor	T34 Preamp/	T159 BRF [dB]	dB(uVolt s/meter)	E-Fields [dBuV/m	Margin (dB)	E-Fields [dBuV/m	Margin (dB)	Height [cm]	Polarity
3	3480.36	38.41	PK	33	-27.3	0	44.11	53.97	-9.86	74	-29.89	201	Vert
4	6729.235	34.35	PK	35.6	-23.3	0.1	46.75	53.97	-7.22	74	-27.25	201	Vert

Horizontal 7600 - 18000MHz

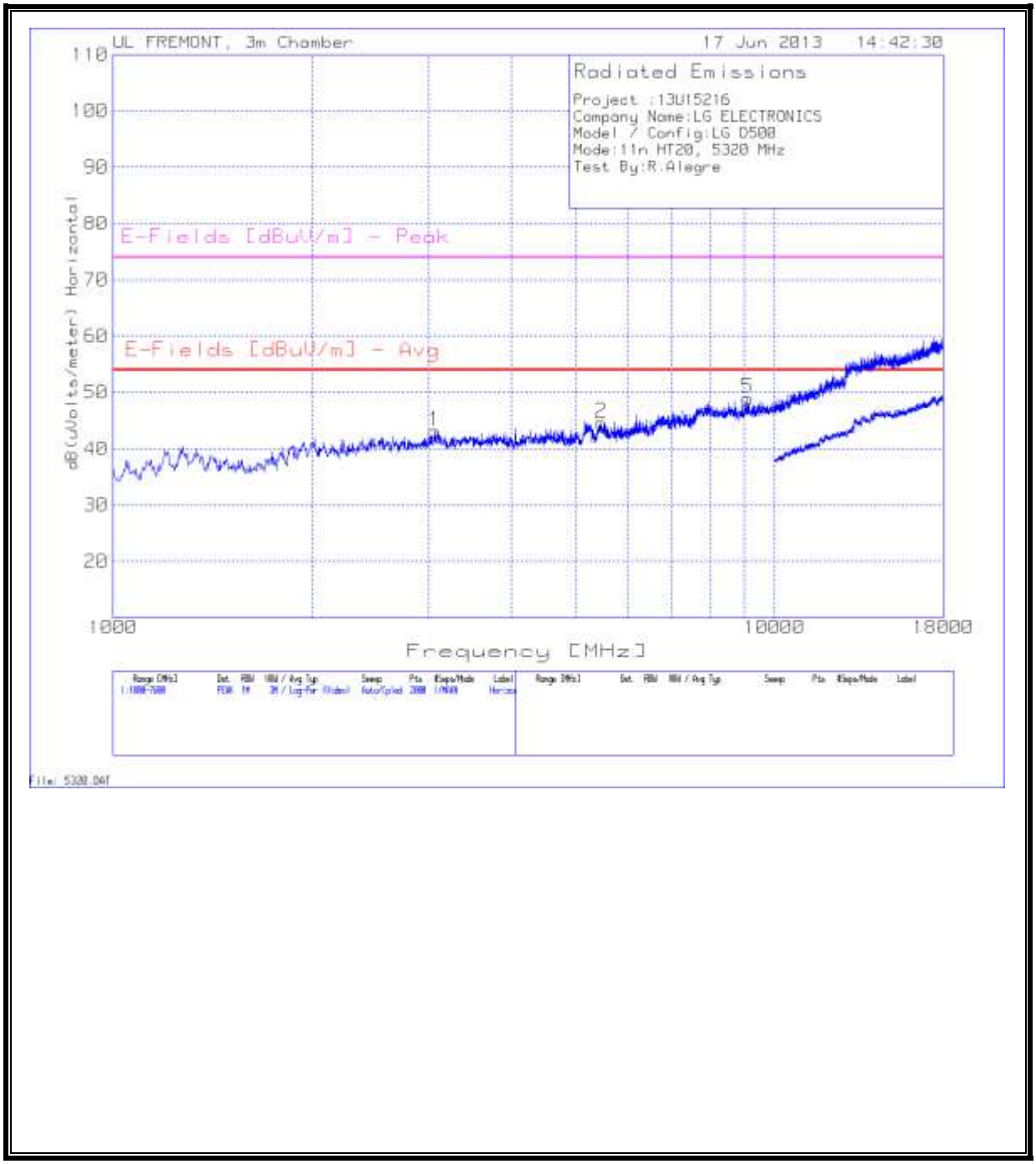
Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor	T34 Preamp/	T193 HPF [dB]	dB(uVolt s/meter)	E-Fields [dBuV/m	Margin (dB)	E-Fields [dBuV/m	Margin (dB)	Height [cm]	Polarity
5*	8852.574	34.07	PK	36	-22	0.1	48.17	53.97	-5.8	74	-25.83	201	Horz

Vertical 7600 - 18000MHz

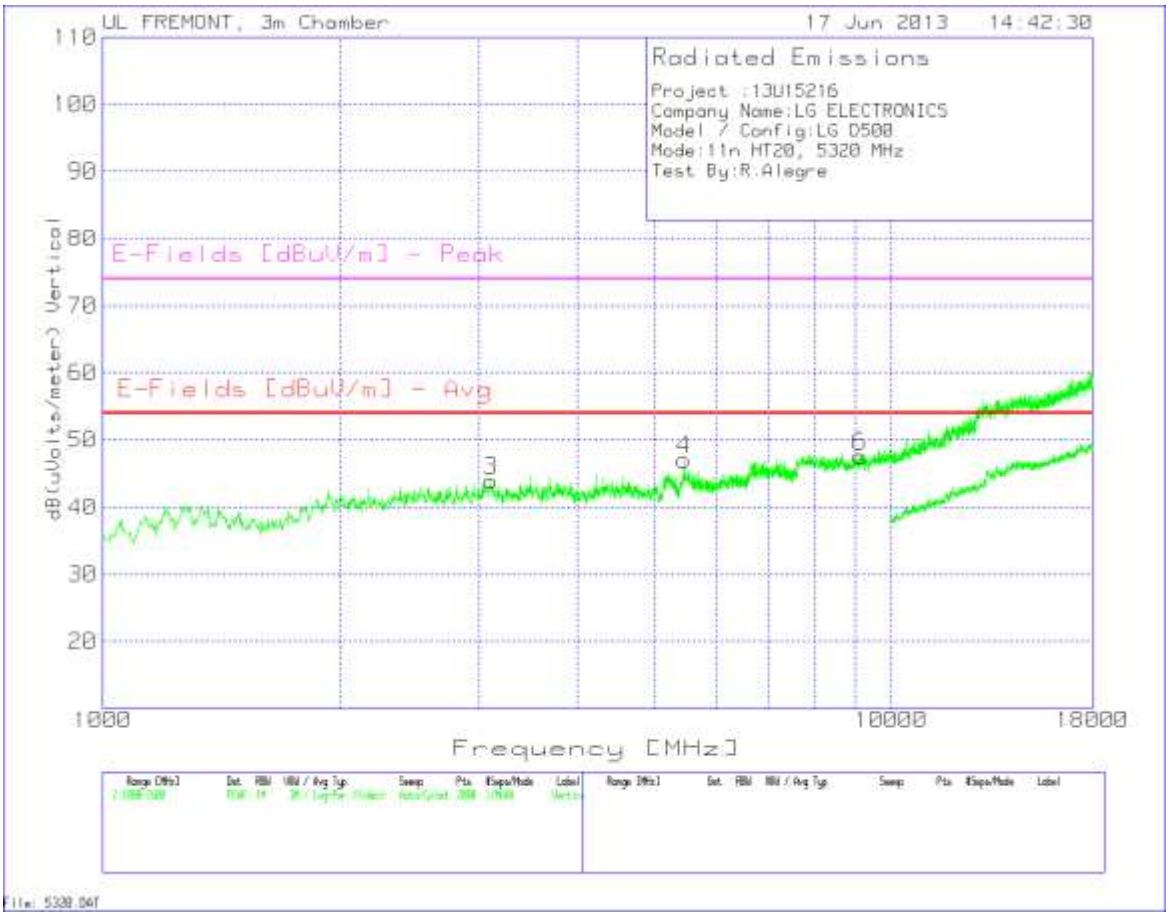
Marker No.	Test Frequency	Meter Reading	Detector	Factor [dB/m]	Preamp/ Cable	T193 HPF [dB]	dB(uVolt s/meter)	[dBuV/m] - Avg	Margin (dB)	[dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
6	8733.033	33.48	PK	35.9	-22.1	0.2	47.48	53.97	-6.49	74	-26.52	201	Vert

*=Not in the restricted band
PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector

HIGH CHANNEL, HORIZONTAL



HIGH CHANNEL, VERTICAL



DATA

Project :13U15216
Company Name:LG ELECTRONICS
Model / Config:LG D500
Mode:11n HT20, 5320 MHz
Test By:R.Alegre

Horizontal 1000 - 7600MHz

Marker No.	Test Frequency(MHz)	Meter Reading(dBuV)	Detector	T119 Ant Factor	T34 Preamp/	T159 BRF [dB]	dB(uVolt s/meter)	E-Fields [dBuV/m	Margin (dB)	E-Fields [dBuV/m	Margin (dB)	Height [cm]	Polarity
1	3061.469	38.4	PK	33	-28.4	0.1	43.1	53.97	-10.87	74	-30.9	201	Horz
2	5475.862	33.45	PK	34.8	-24.5	0.9	44.65	53.97	-9.32	74	-29.35	201	Horz

Vertical 1000 - 7600MHz

Marker No.	Test Frequency	Meter Reading	Detector	Factor [dB/m]	Preamp/ Cable	T159 BRF [dB]	dB(uVolt s/meter)	[dBuV/m] - Avg	Margin (dB)	[dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
3	3107.646	39.08	PK	33.1	-28.3	0.1	43.98	53.97	-9.99	74	-30.02	201	Vert
4	5456.072	35.8	PK	34.8	-24.5	0.9	47	53.97	-6.97	74	-27	99	Vert

Horizontal 7600 - 18000MHz

Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor	T34 Preamp/	T193 HPF [dB]	dB(uVolt s/meter)	E-Fields [dBuV/m	Margin (dB)	E-Fields [dBuV/m	Margin (dB)	Height [cm]	Polarity
5	9102.049	34.6	PK	36.2	-22	0.2	49	53.97	-4.97	74	-25	100	Horz

Vertical 7600 - 18000MHz

Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor	T34 Preamp/	T193 HPF [dB]	dB(uVolt s/meter)	E-Fields [dBuV/m	Margin (dB)	E-Fields [dBuV/m	Margin (dB)	Height [cm]	Polarity
6	9122.839	33.26	PK	36.2	-22	0.1	47.56	53.97	-6.41	74	-26.44	99	Vert

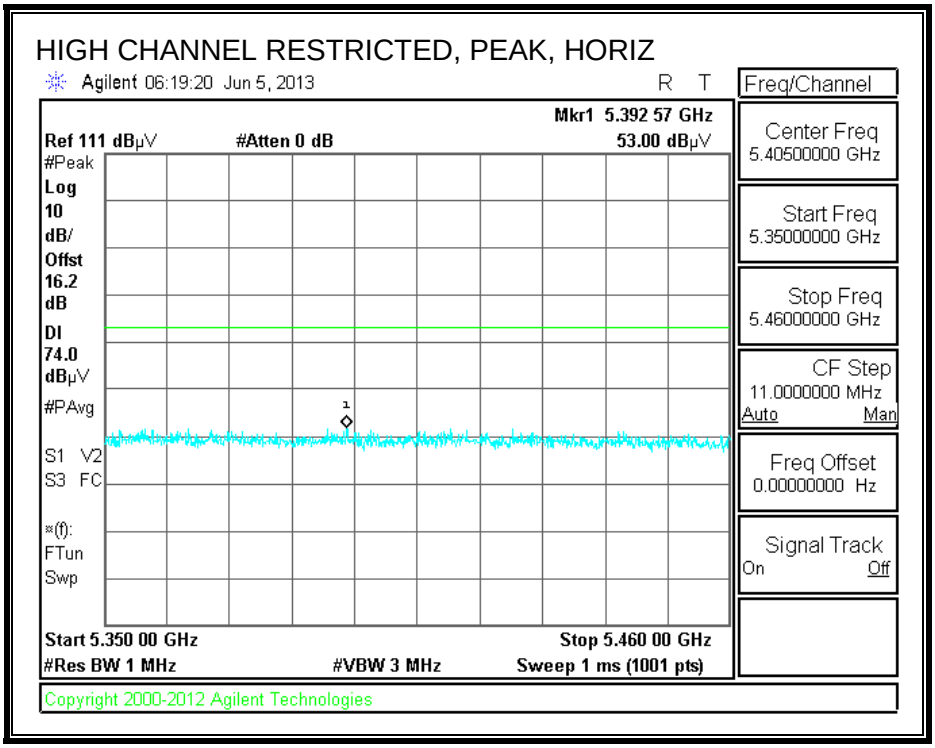
Horizontal 7600 - 18000MHz

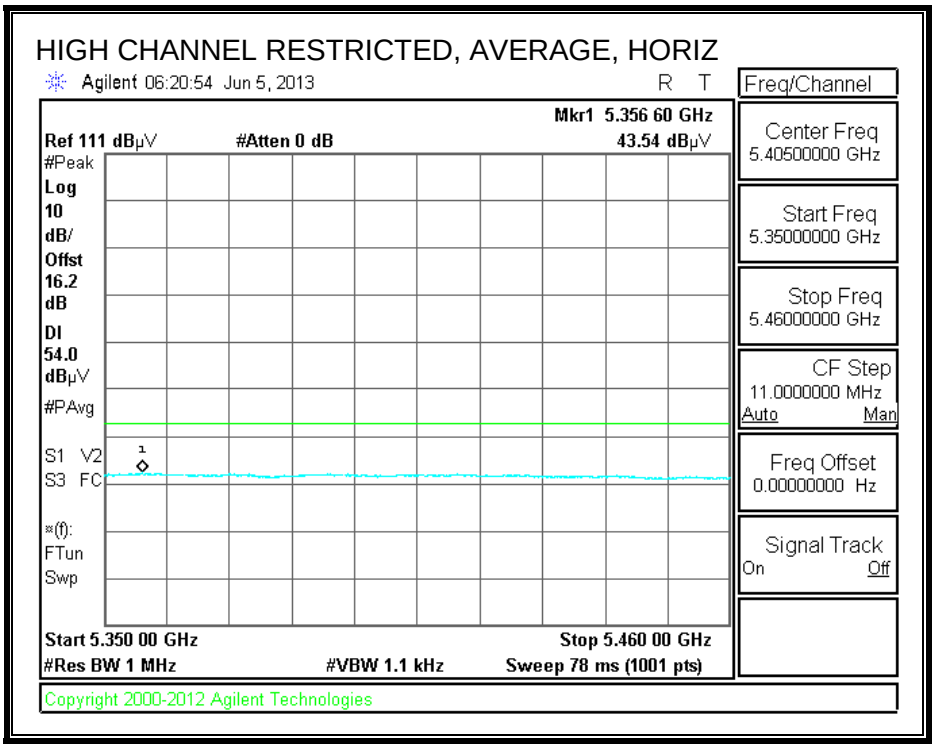
Test Frequenc	Meter Reading	Detector	T119 Ant Factor	T34 Preamp/	T193 HPF [dB]	dB(uVolt s/meter)	E-Fields [dBuV/m	Margin (dB)	E-Fields [dBuV/m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
9108.45	22.94	AD1	36.2	-22	0.1	37.24	53.97	-16.73	74	-36.76	178	160	Horz

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector

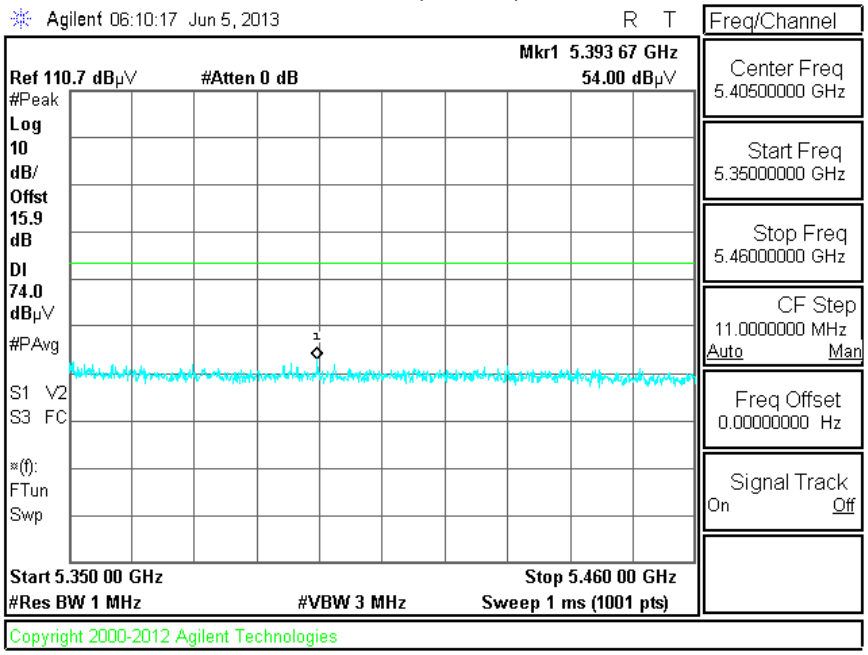
7.7. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.3 GHz BAND

RESTRICTED BANDEDGE (HIGH CHANNEL)

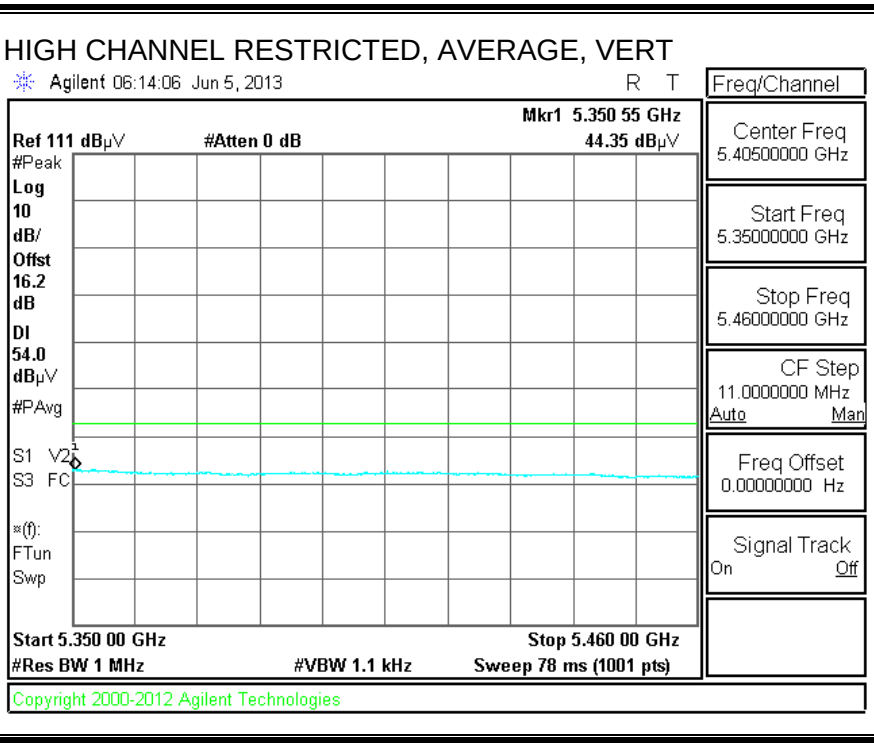




HIGH CHANNEL RESTRICTED, PEAK, VERT

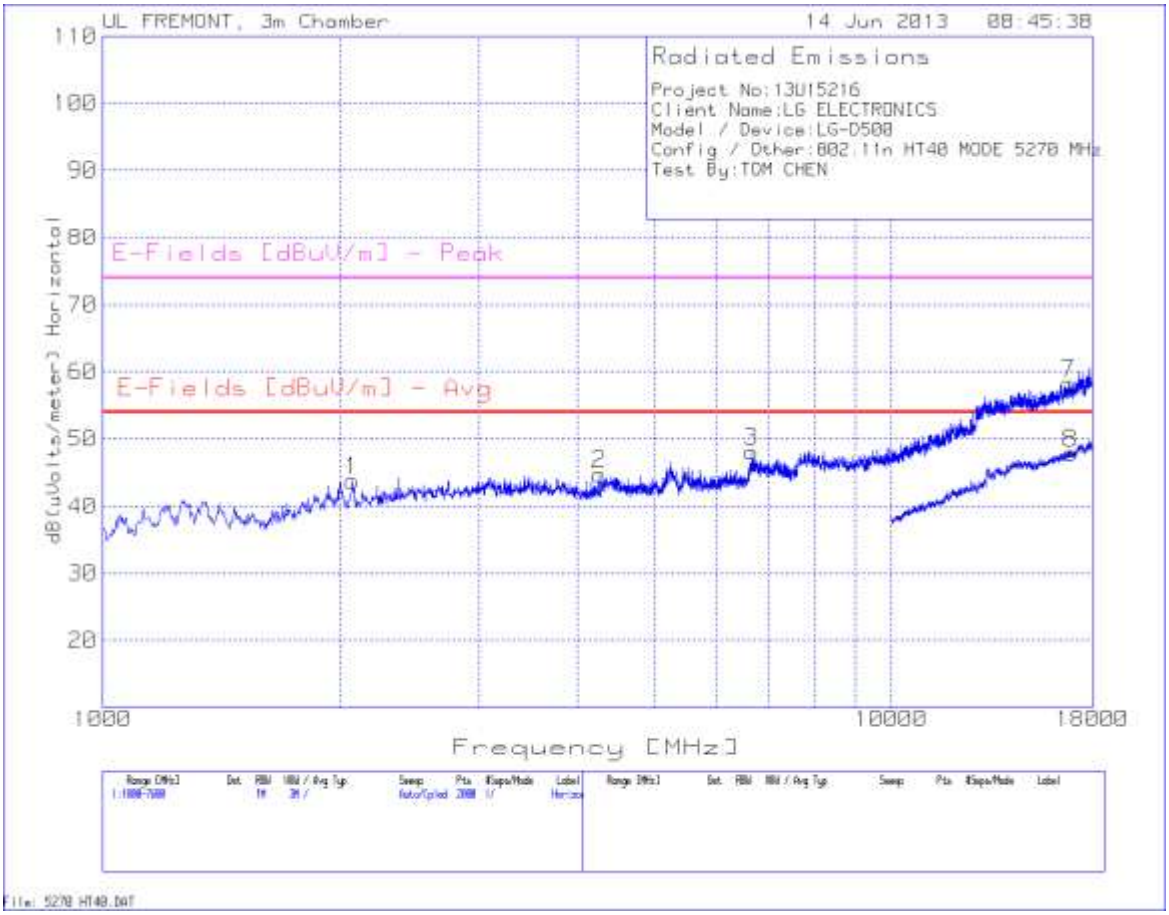


HIGH CHANNEL RESTRICTED, AVERAGE, VERT

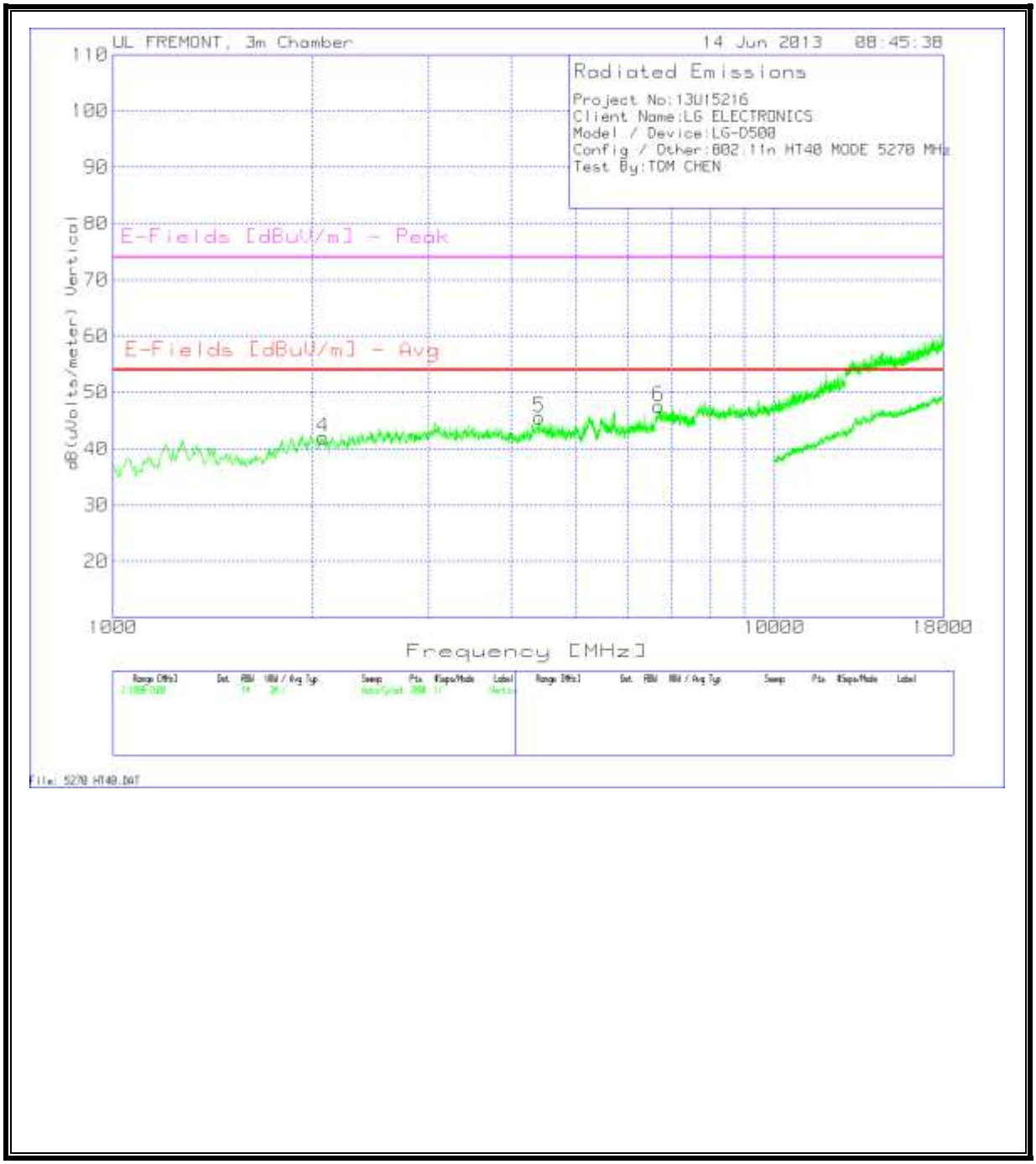


HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, HORIZONTAL



LOW CHANNEL, VERTICAL



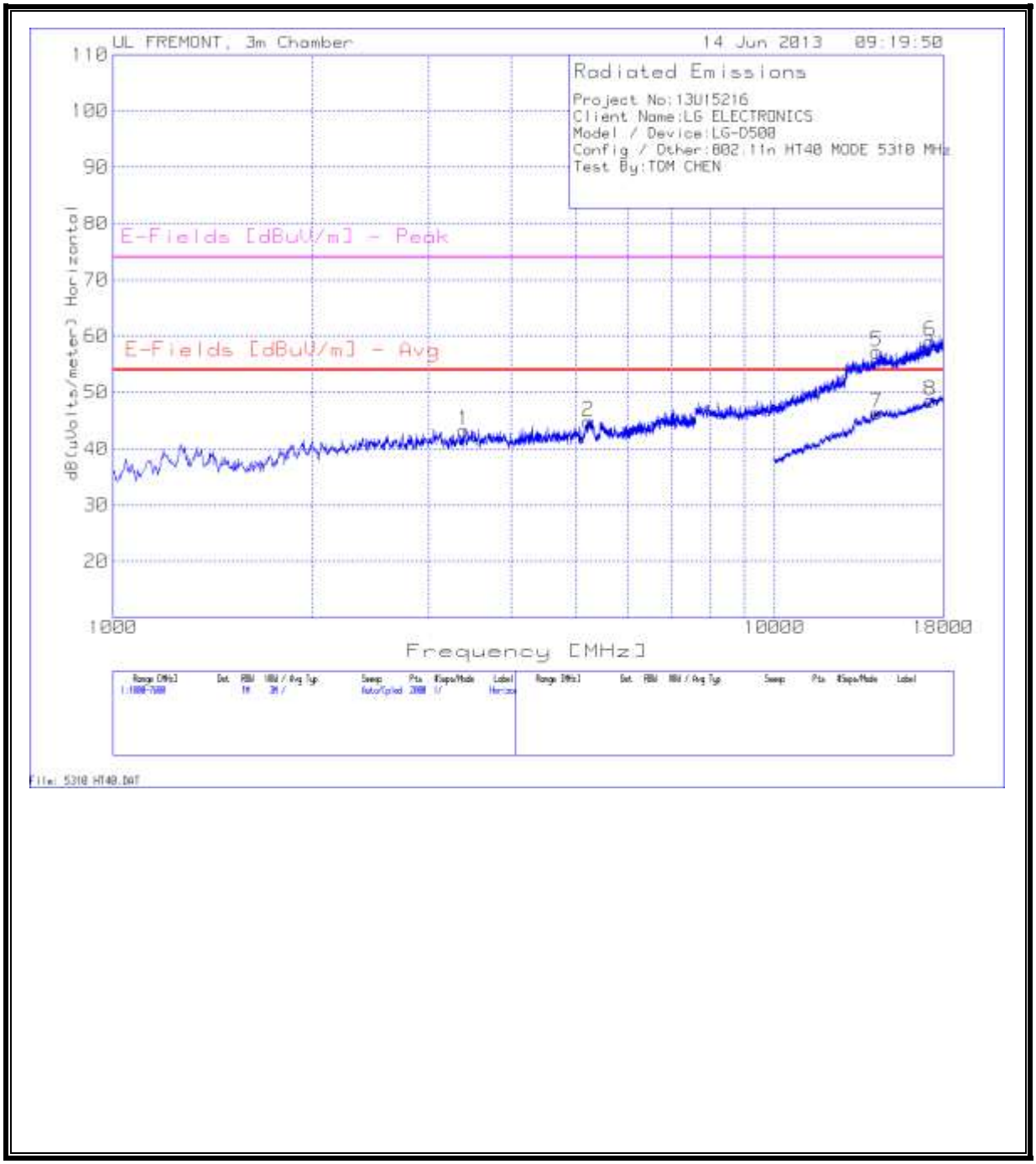
DATA

Project No:13U15216
Client Name:LG ELECTRONICS
Model / Device:LG-D500
Config / Other:802.11n HT40 MODE 5270 MHz
Test By:TOM CHEN

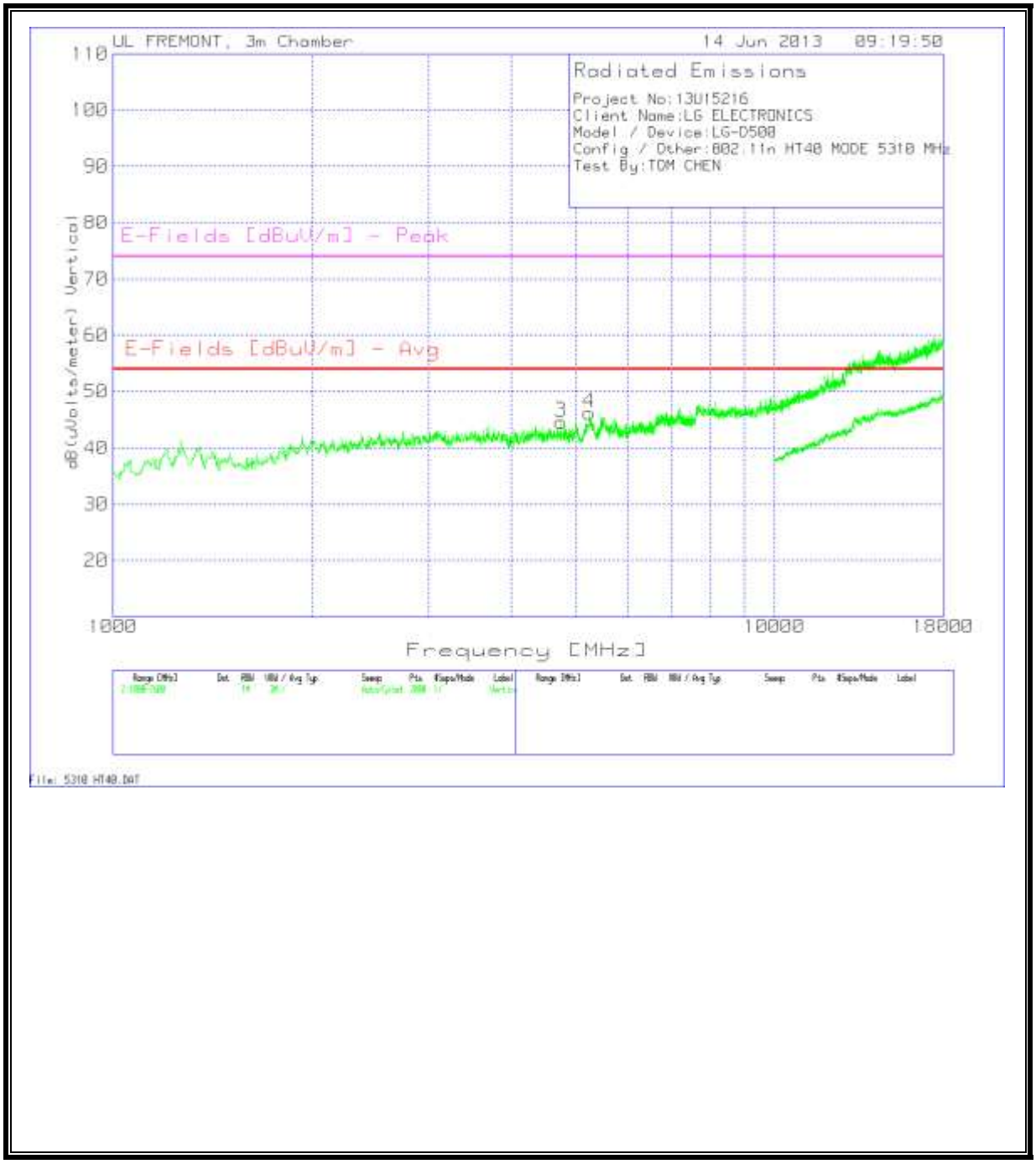
Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor [dB/m]	T34 Preamp/Cable Loss [dB]	T159 BRF [dB]	DC Corr [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
Horizontal 1000 - 7600MHz														
1	2071.964	42.54	PK	31.6	-30.4	0	0	43.74	53.97	-10.23	74	-30.26	99	Horz
2	4258.771	37.03	PK	33.5	-25.9	0.1	0	44.73	53.97	-9.24	74	-29.27	99	Horz
3*	6656.672	35.78	PK	35.6	-23.4	0.1	0	48.08	53.97	-5.89	74	-25.92	99	Horz
Vertical 1000 - 7600MHz														
4	2075.262	40.87	PK	31.6	-30.4	0	0	42.07	53.97	-11.9	74	-31.93	201	Vert
5	4407.196	37.55	PK	33.7	-25.8	0.1	0	45.55	53.97	-8.42	74	-28.45	201	Vert
6	6679.76	35.28	PK	35.6	-23.4	0.1	0	47.58	53.97	-6.39	74	-26.42	99	Vert
Horizontal 7600 - 18000MHz														
7*	16809.795	31.85	PK	41.1	-15.1	0.4	0	58.25	53.97	4.28	74	-15.75	100	Horz
Horizontal 10000 - 18000MHz														
8	16888.556	21.34	PK	41.1	-14.9	0.3	0	47.84	53.97	-6.13	74	-26.16	201	Horz

*=Not in the restricted band
PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector

HIGH CHANNEL, HORIZONTAL



HIGH CHANNEL, HORIZONTAL



DATA

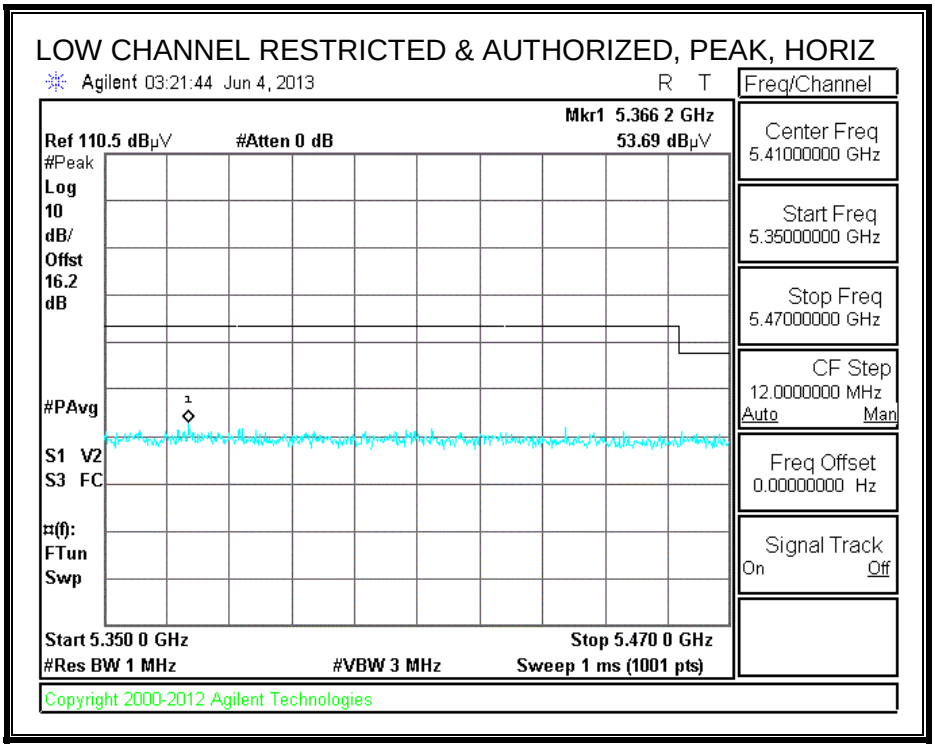
Project No:13U15216
Client Name:LG ELECTRONICS
Model / Device:LG-D500
Config / Other:802.11n HT40 MODE 5310 MHz
Test By:TOM CHEN

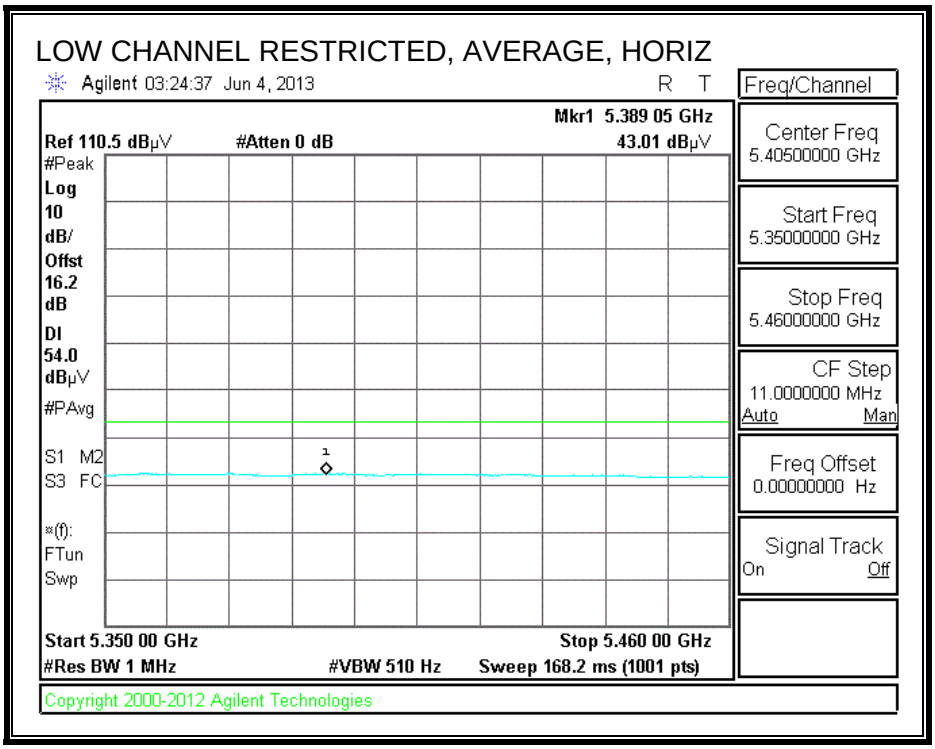
Marker No.	Test Frequency (MHz)	Meter Reading (dBuV)	Detector	T119 Ant Factor [dB/m]	T34 Preamp/Cable Loss [dB]	T159 BRF [dB]	DC Corr [dB]	dB(uVolts/meter)	E-Fields (dBuV/m) - Avg	Margin (dB)	E-Fields (dBuV/m) - Peak	Margin (dB)	Height [cm]	Polarity
Horizontal 1000 - 7600MHz														
1	3388.006	37.87	PK	32.9	-27.5	0	0	43.27	53.97	-10.7	74	-30.73	99	Horz
2	5238.381	34.34	PK	34.3	-24.7	0.9	0	44.84	53.97	-9.13	74	-29.16	99	Horz
Vertical 1000 - 7600MHz														
3	4756.822	35.67	PK	34.1	-25.3	0.1	0	44.57	53.97	-9.4	74	-29.43	100	Vert
4	5248.276	35.77	PK	34.3	-24.7	0.9	0	46.27	53.97	-7.7	74	-27.73	201	Vert
Horizontal 7600 - 18000MHz														
5*	14283.858	33.44	PK	39.3	-15.8	0.3	0	57.24	53.97	3.27	74	-16.76	99	Horz
6*	17225.587	31.91	PK	41.2	-14.4	0.4	0	59.11	53.97	5.14	74	-14.89	99	Horz
Horizontal 10000 - 18000MHz														
7	14281.859	22.62	PK	39.3	-15.8	0.3	0	46.42	53.97	-7.55	74	-27.58	201	Horz
8*	17196.402	21.49	PK	41.2	-14.4	0.3	0	48.59	53.97	-5.38	74	-25.41	201	Horz

*=Not in the restricted band
PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector

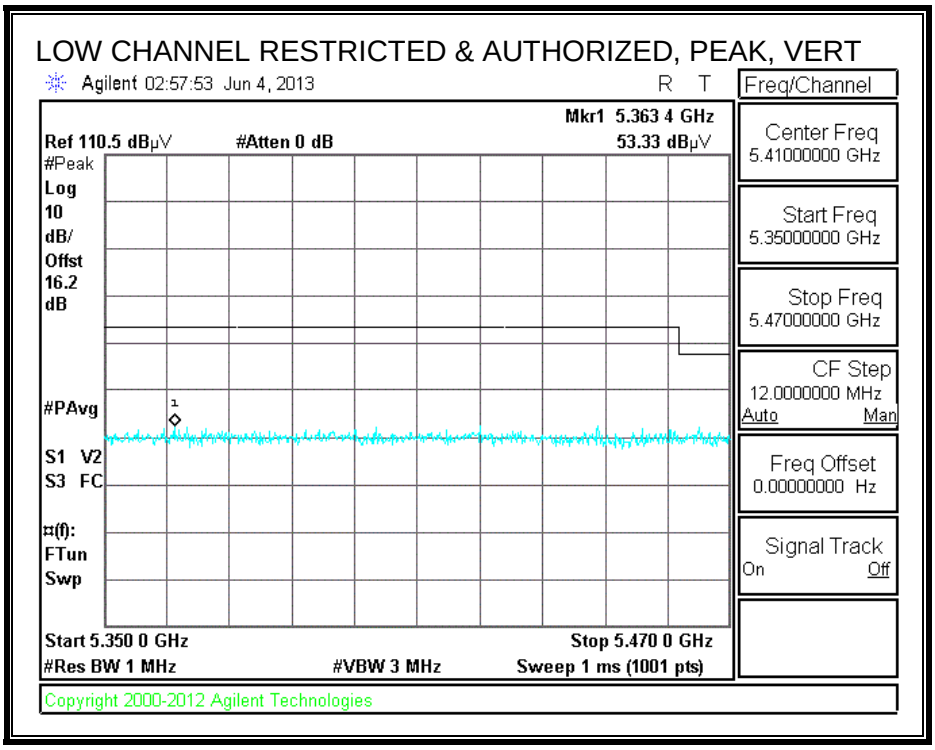
7.8. TX ABOVE 1 GHz 802.11a MODE IN THE 5.6 GHz BAND

RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)

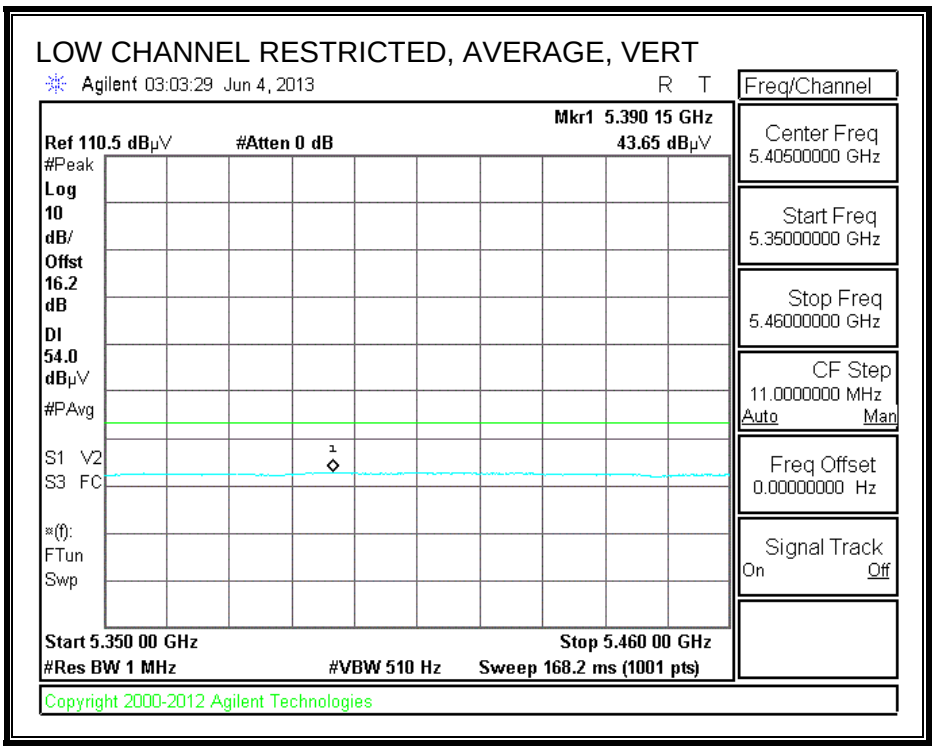




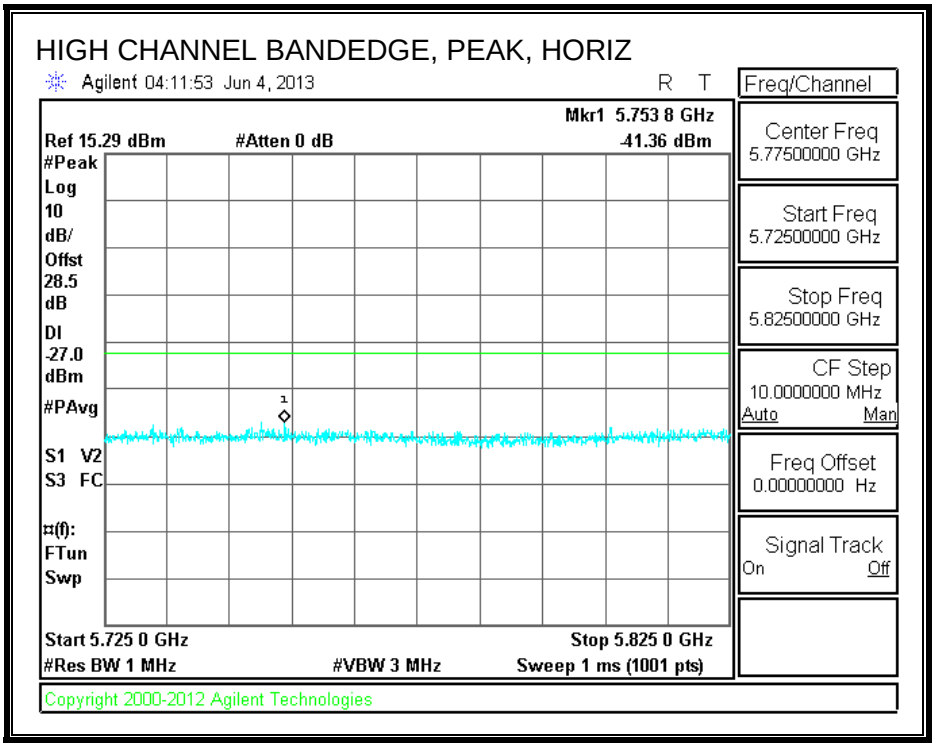
LOW CHANNEL RESTRICTED & AUTHORIZED, PEAK, VERT

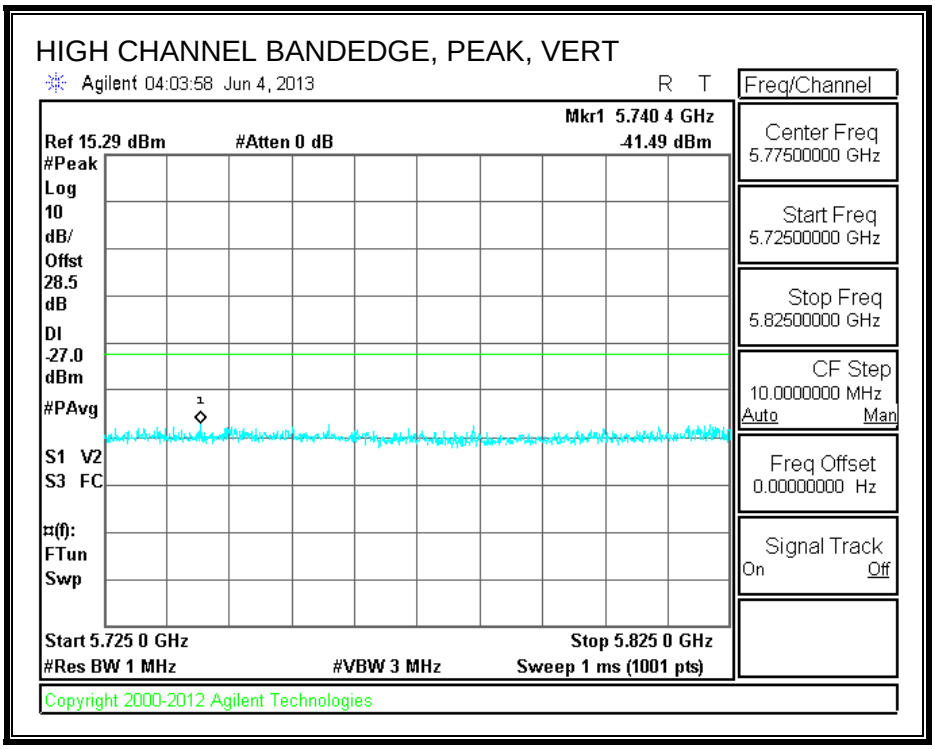


LOW CHANNEL RESTRICTED, AVERAGE, VERT



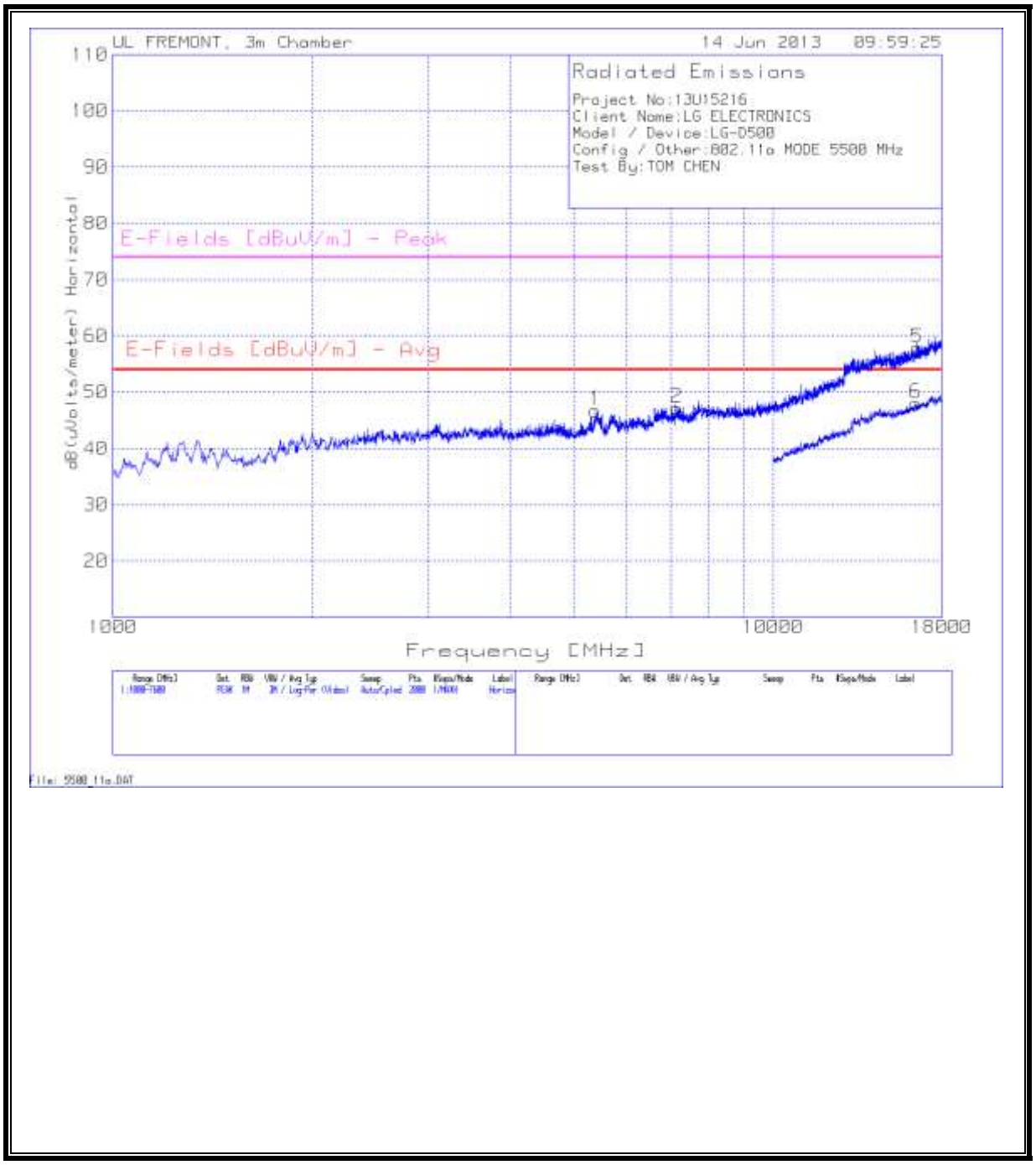
AUTHORIZED BANDEDGE (HIGH CHANNEL)



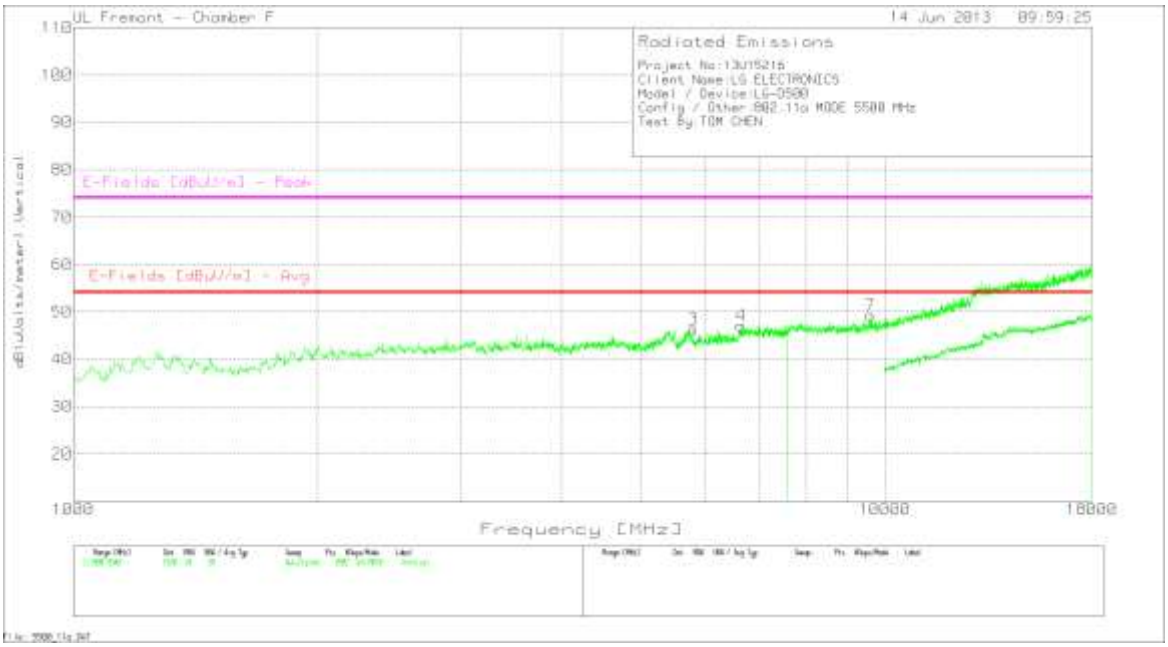


HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, HORIZONTAL



LOW CHANNEL, VERTICAL



DATA

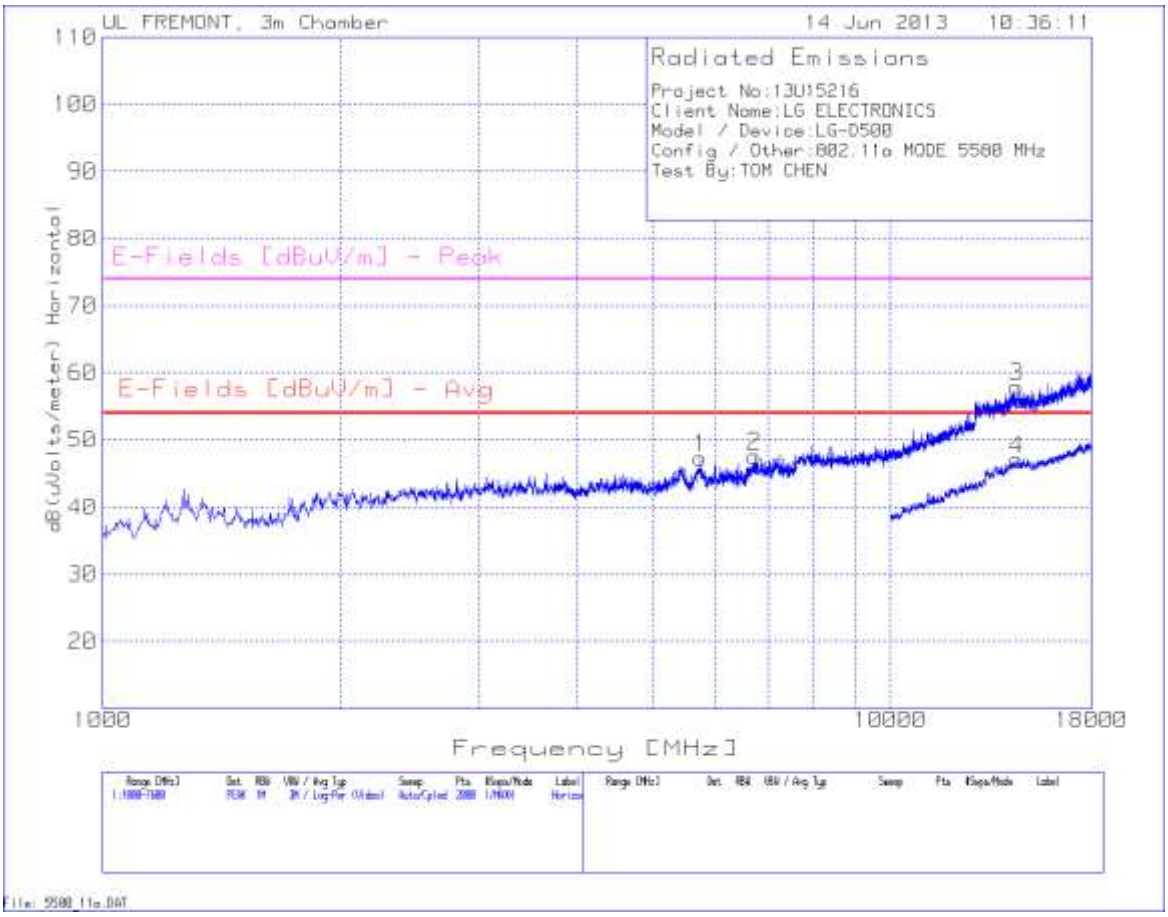
Project No:13U15216
Client Name:LG ELECTRONICS
Model / Device:LG-D500
Config / Other:802.11a MODE 5500 MHz
Test By:TOM CHEN

Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor [dB/m]	T34 Preamp/Cable Loss [dB]	T161 BRF [dB]	DC Corr [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Polarity
Horizontal 1000 - 7600MHz													
1	5370.315	35.66	PK	34.6	-24.5	1	0	46.76	53.97	-7.21	74	-27.24	Horz
2	7141.529	34.56	PK	35.6	-23.1	0.1	0	47.16	53.97	-6.81	74	-26.84	Horz
Vertical 1000 - 7600MHz													
3	5808.996	34.74	PK	34.9	-24.3	1	0	46.34	53.97	-7.63	74	-27.66	Vert
4	6650.075	34.72	PK	35.6	-23.4	0.2	0	47.12	53.97	-6.85	74	-26.88	Vert
Horizontal 7600 - 18000MHz													
5*	16544.728	31.63	PK	41.2	-15.6	0.6	0	57.83	53.97	3.86	74	-16.17	Horz
Vertical 7600 - 18000MHz													
7*	9606.197	33.99	PK	36.7	-21.8	0.4	0	49.29	53.97	-4.68	74	-24.71	Vert
Horizontal 10000 - 18000MHz													
6	16432.784	22.46	PK	41	-15.9	0.4	0	47.96	53.97	-6.01	74	-26.04	Horz

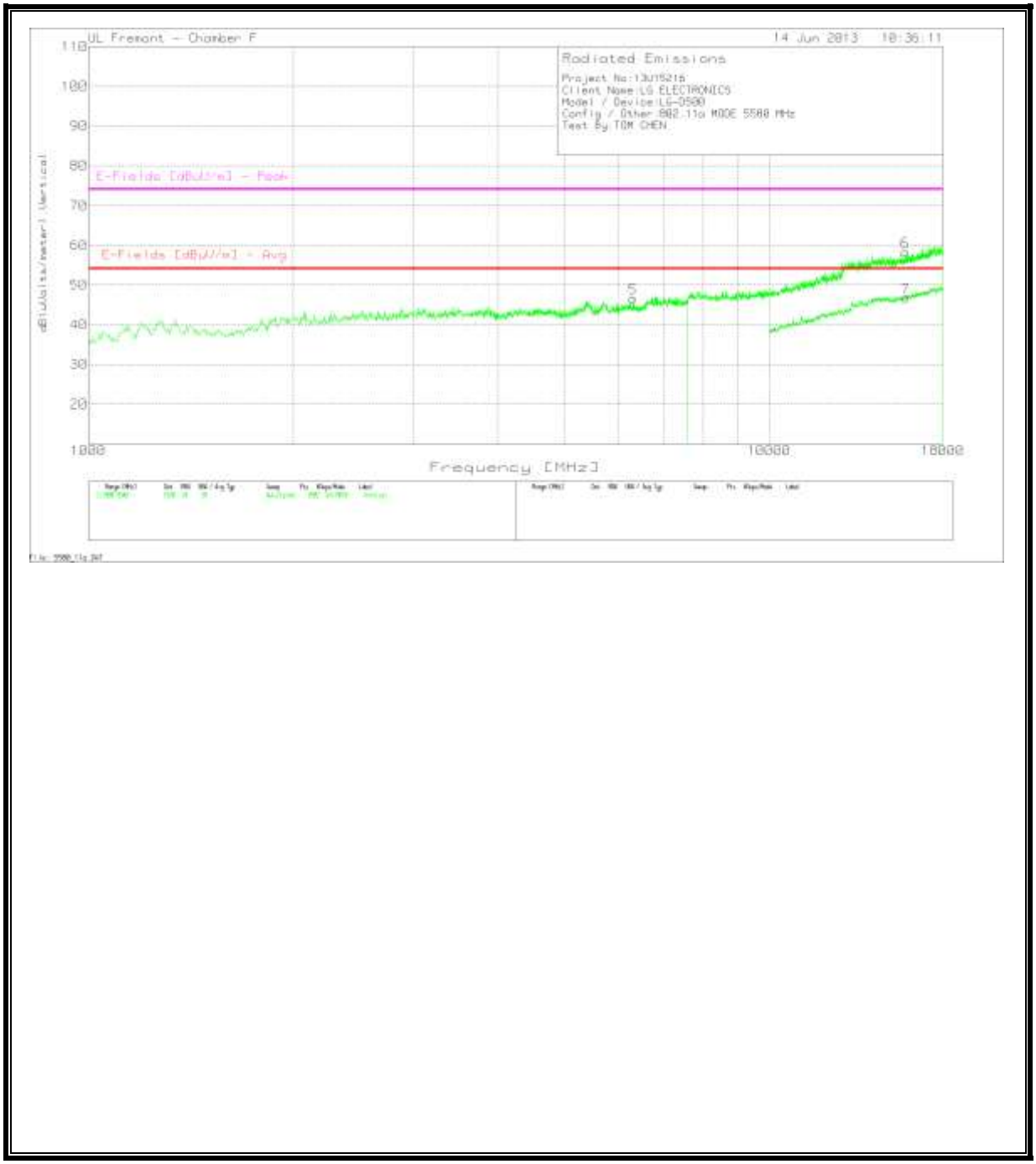
*=Not in the restricted band

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector

MID CHANNEL, HORIZONTAL



MID CHANNEL, VERTICAL



DATA

Project No:13U15216
Client Name:LG ELECTRONICS
Model / Device:LG-D500
Config / Other:802.11a MODE 5580 MHz
Test By:TOM CHEN

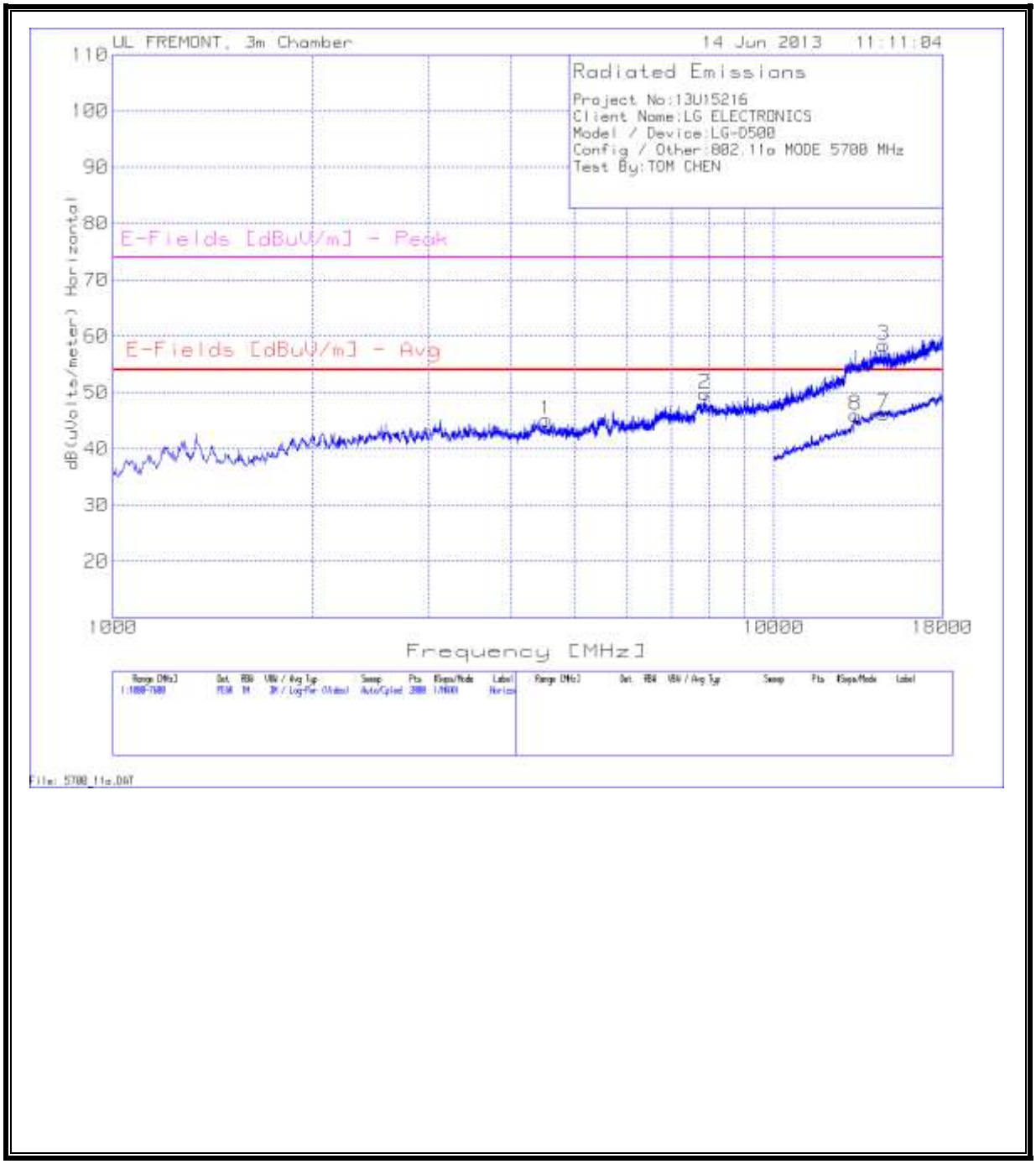
Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor [dB/m]	T34 Preamp/Cable Loss [dB]	T161 BRF [dB]	DC Corr [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] Peak	Margin (dB)	Polarity
Horizontal 1000 - 7600MHz													
1	5736.432	35.86	PK	34.8	-24.3	1	0	47.36	53.97	-6.61	74	-26.64	Horz
2	6725.937	35.14	PK	35.6	-23.3	0.2	0	47.64	53.97	-6.33	74	-26.36	Horz
Vertical 1000 - 7600MHz													
5	6310.345	34.74	PK	35.4	-23.7	0.2	0	46.64	53.97	-7.33	74	-27.36	Vert
Horizontal 7600 - 18000MHz													
3	14470.965	33.72	PK	39.6	-15.9	0.5	0	57.92	53.97	3.95	74	-16.08	Horz
Vertical 7600 - 18000MHz													
6	15858.671	33.88	PK	40.5	-16.4	0.3	0	58.28	53.97	4.31	74	-15.72	Vert
Horizontal 10000 - 18000MHz													
4	14481.759	22.83	PK	39.6	-15.9	0.5	0	47.03	53.97	-6.94	74	-26.97	Horz
Vertical 10000 - 18000MHz													
7	15877.061	22.5	PK	40.5	-16.4	0.2	0	46.8	53.97	-7.17	74	-27.2	Vert

Horizontal 7600 - 18000MHz

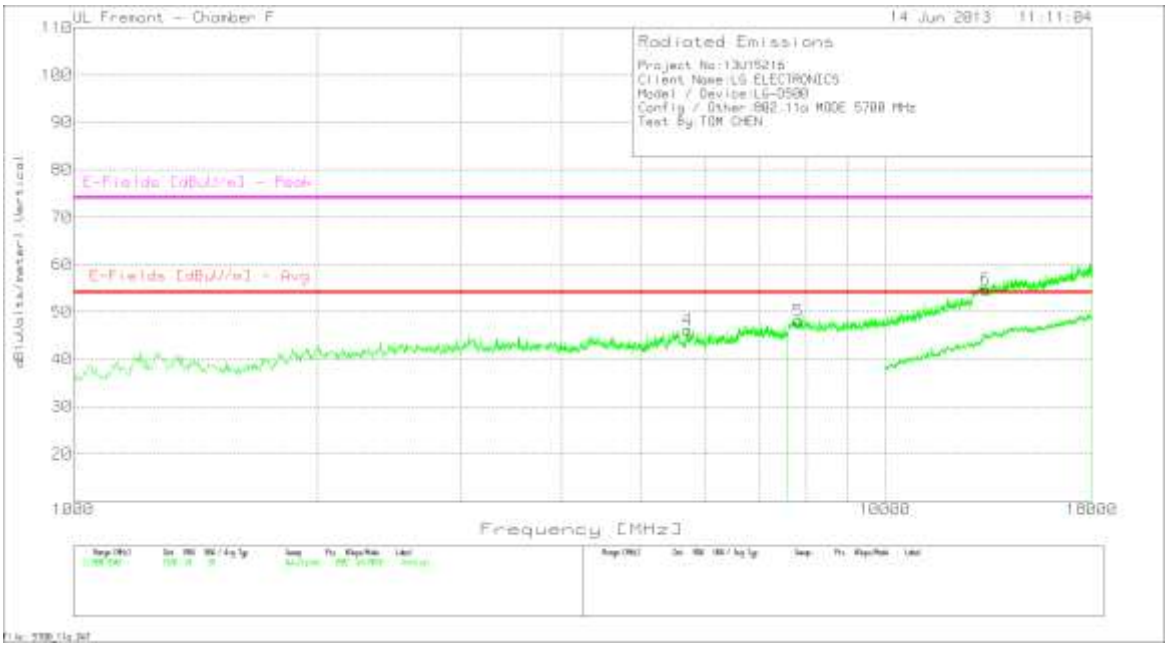
Test Frequency(MHz)	Meter Reading (dBuV)	Detector	T119 Ant Factor [dB/m]	T34 Preamp/ Cable	DC Corr [dB]	Corrected Reading	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
14481.805	19.06	AD1	39.6	-15.9	0.2	43.46	53.97	-10.51	74	-30.54	124	241	Horz
Vertical 7600 - 18000MHz													
15855.211	18.82	AD1	40.5	-16.4	0.2	43.42	53.97	-10.55	74	-30.58	41	256	Vert

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector

HIGH CHANNEL, HORIZONTAL



HIGH CHANNEL, VERTICAL



DATA

Project No:13U15216
Client Name:LG ELECTRONICS
Model / Device:LG-D500
Config / Other:802.11a MODE 5700 MHz
Test By:TOM CHEN

Marker No.	Test Frequency	Meter Reading	Detector	T119 Ant Factor [dB/m]	T34 Preamp/Cable Loss [dB]	T161 BRF [dB]	DC Corr [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Polarity
Horizontal 1000 - 7600MHz													
1	4522.639	36.59	PK	34	-25.6	0.1	0	45.09	53.97	-8.88	74	-28.91	Horz
Vertical 1000 - 7600MHz													
4	5710.045	34.67	PK	34.8	-24.3	1	0	46.17	53.97	-7.8	74	-27.83	Vert
Horizontal 7600 - 18000MHz													
2*	7854.673	36.21	PK	35.8	-22.6	0.3	0	49.71	53.97	-4.26	74	-24.29	Horz
3*	14652.874	34.69	PK	39.7	-16.1	0.2	0	58.49	53.97	4.52	74	-15.51	Horz
Vertical 7600 - 18000MHz													
5*	7833.883	34.79	PK	35.8	-22.7	0.2	0	48.09	53.97	-5.88	74	-25.91	Vert
6	13322.339	32.38	PK	39.2	-16.7	-0.1	0	54.78	53.97	0.81	74	-19.22	Vert
Horizontal 10000 - 18000MHz													
7	14653.673	22.45	PK	39.7	-16.1	0.2	0	46.25	53.97	-7.72	74	-27.75	Horz
8	13278.361	22.83	PK	39.1	-16.7	0.7	0	45.93	53.97	-8.04	74	-28.07	Horz

*=Not in the restricted band

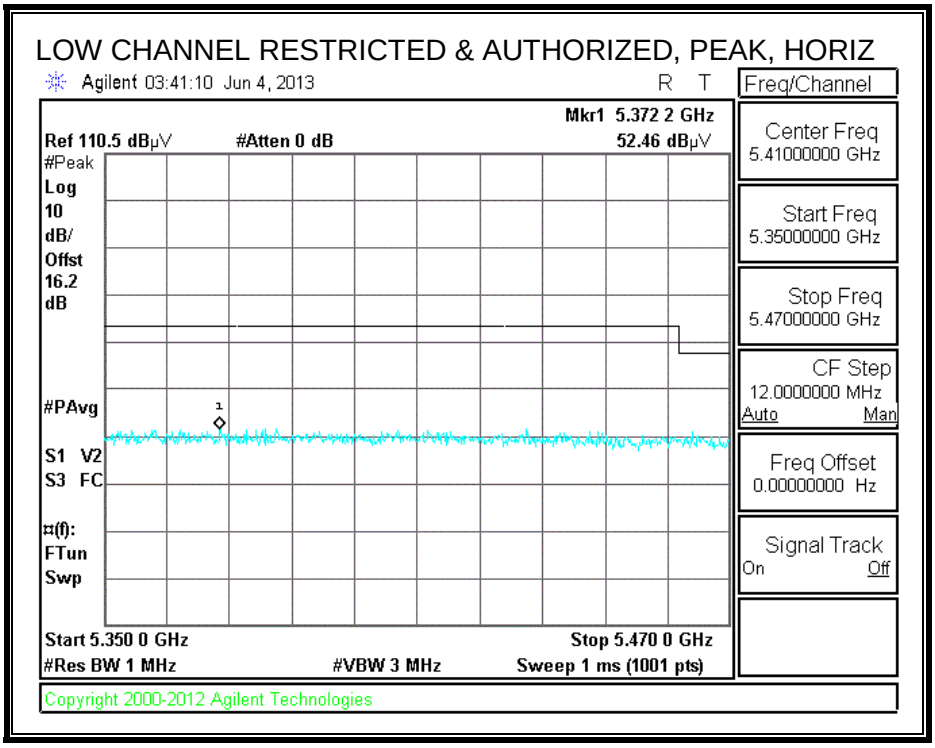
Vertical 7600 - 18000MHz

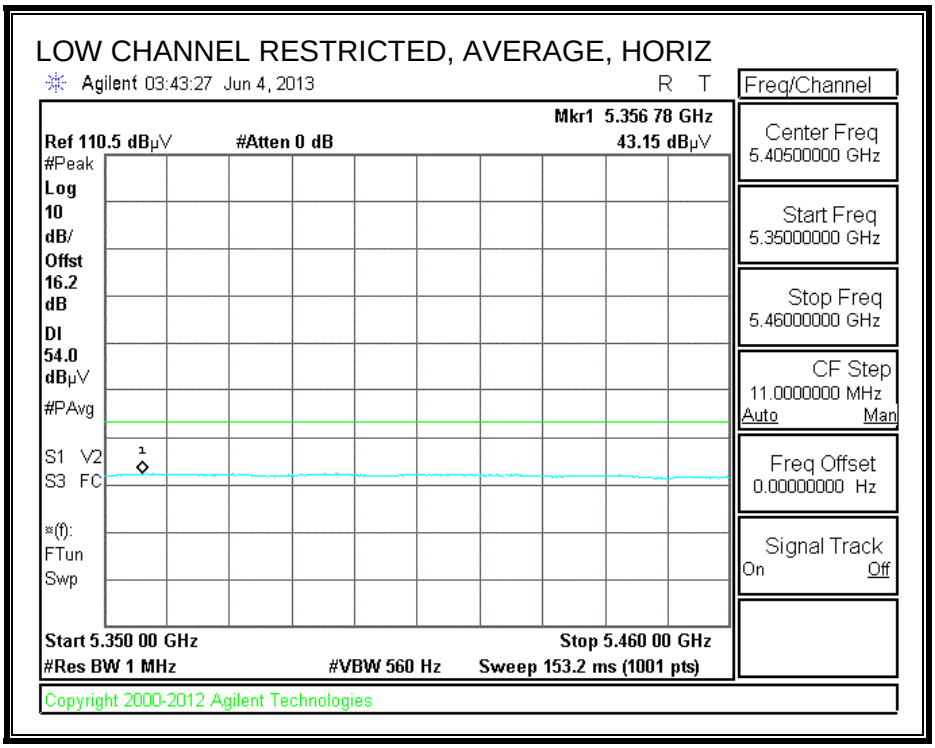
Test Frequency(MHz)	Meter Reading (dBuV)	Detector	T119 Ant Factor [dB/m]	Preamp/ Cable Loss [dB]	DC Corr [dB]	d Reading dB(uVolt	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
13315.019	17.35	AD1	39.2	-16.7	0.2	40.05	53.97	-13.92	74	-33.95	96	247	Vert

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector

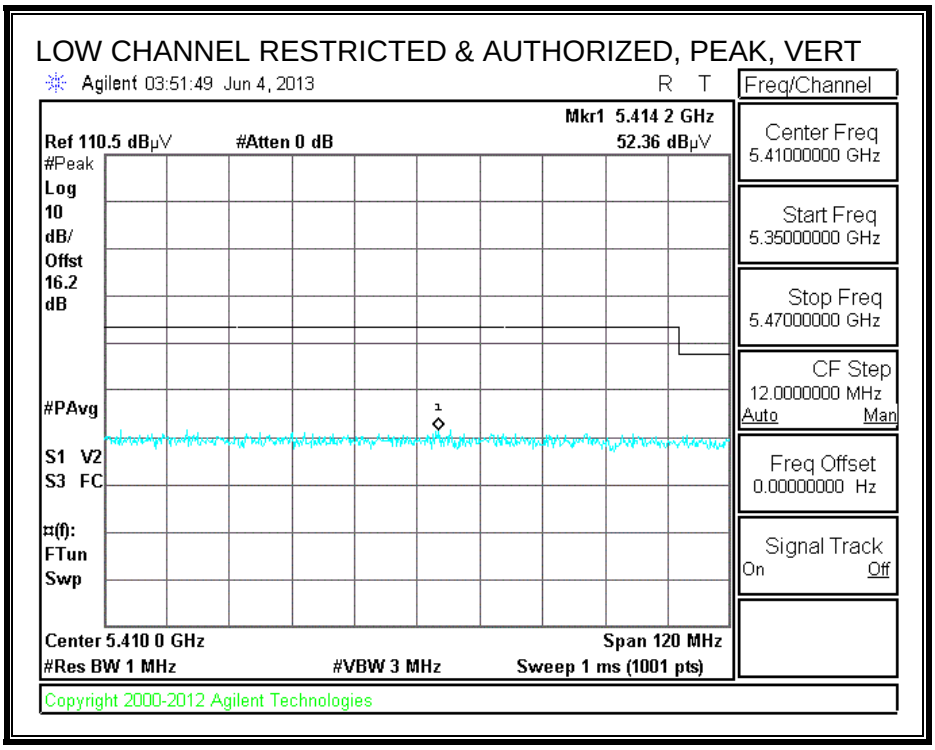
7.9. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.6 GHz BAND

RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)

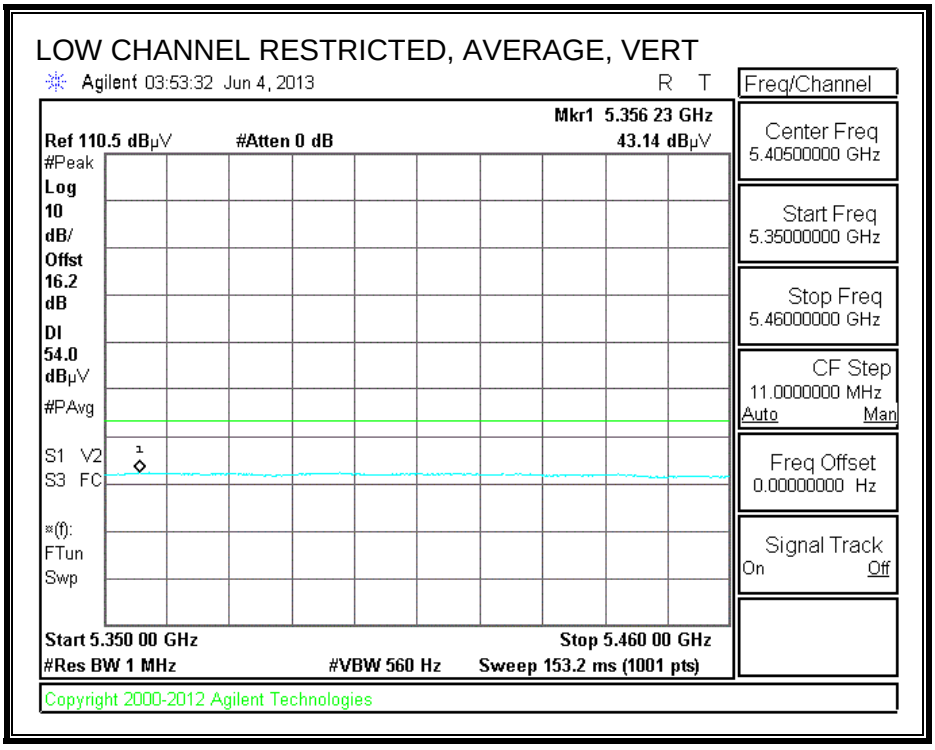




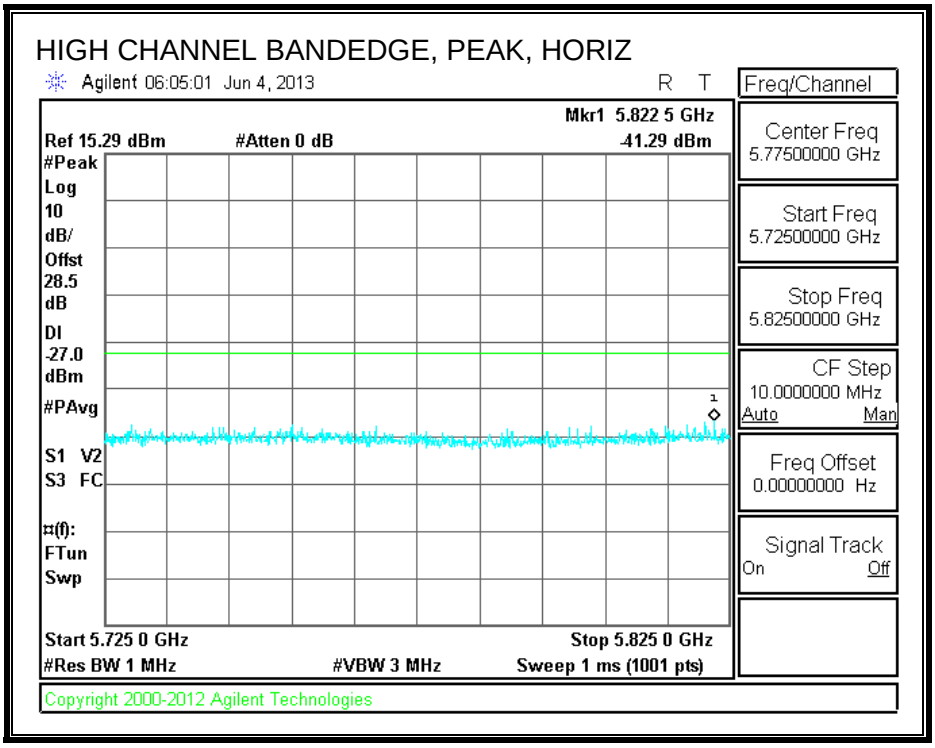
LOW CHANNEL RESTRICTED & AUTHORIZED, PEAK, VERT

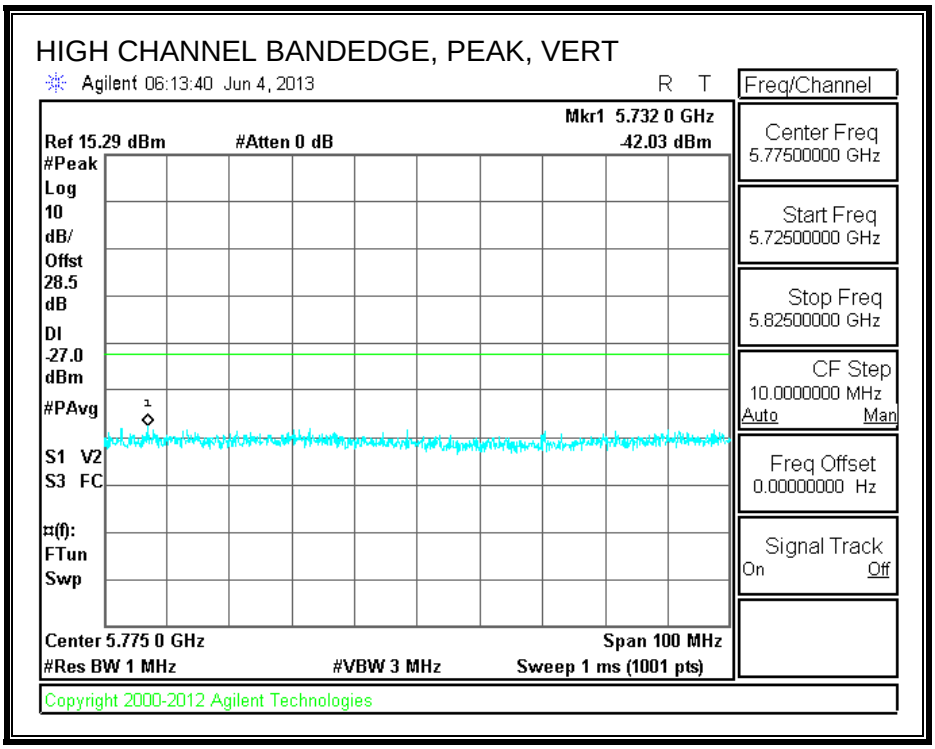


LOW CHANNEL RESTRICTED, AVERAGE, VERT



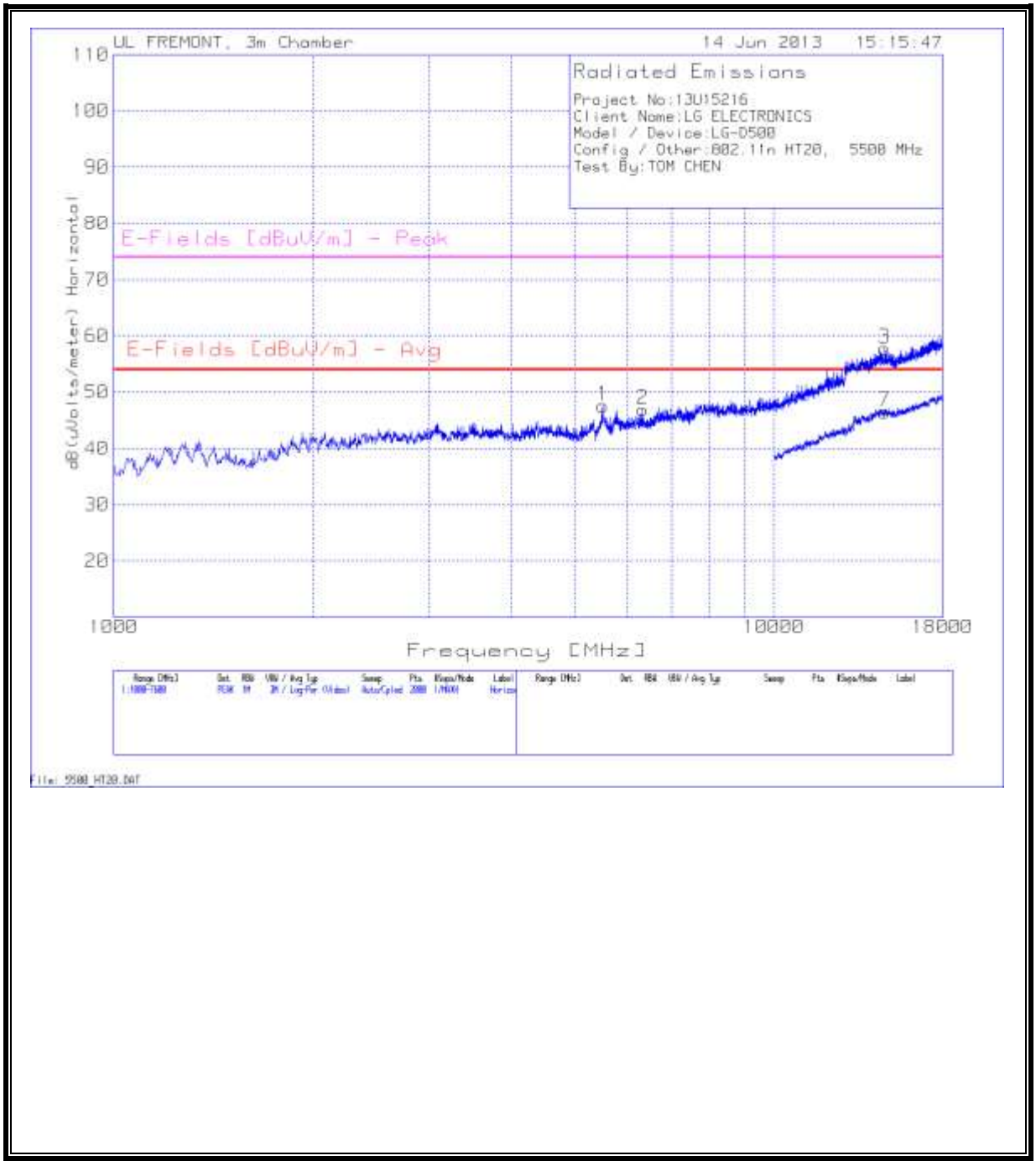
AUTHORIZED BANDEDGE (HIGH CHANNEL)



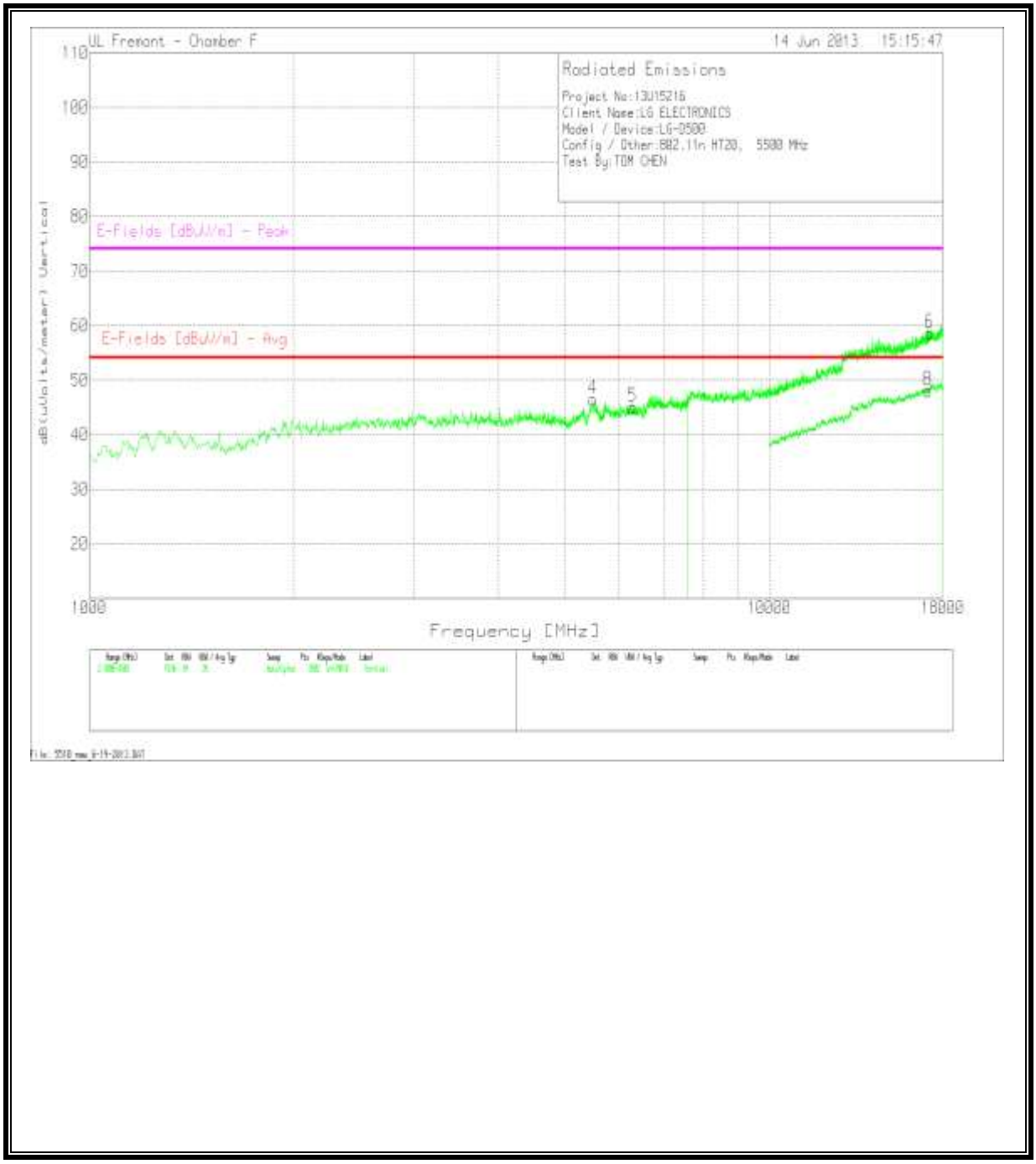


HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, HORIZONTAL



LOW CHANNEL, VERTICAL



DATA

Project No:13U15216
Client Name:LG ELECTRONICS
Model / Device:LG-D500
Config / Other:802.11n HT20, 5500 MHz
Test By:TOM CHEN

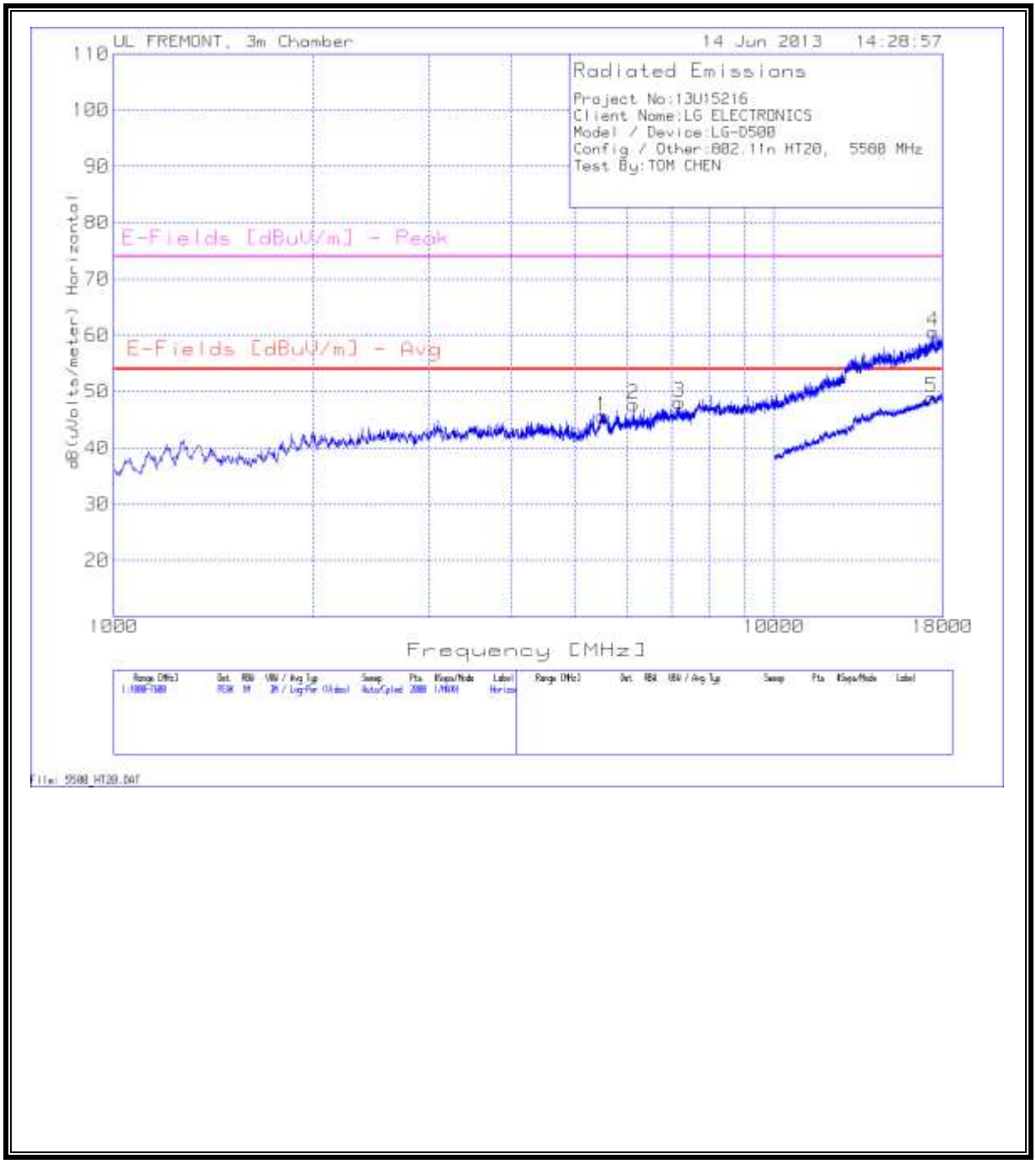
Horizontal 1000 - 7600MHz

Marker No.	Test Frequency(MHz)	Meter Reading(dBuV)	Detector	T119 Ant Factor [dB/m]	Preamp/ Cable Loss [dB]	T161 BRF [dB]	DC Corr [dB]	d Reading dB(uVolt	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)
1	5502.249	36.3	PK	34.8	-24.5	1	0	47.6	53.97	-6.37	74	-26.4
2	6330.135	35.03	PK	35.4	-23.7	0.2	0	46.93	53.97	-7.04	74	-27.07
Vertical 1000 - 7600MHz												
4	5502.249	35.2	PK	34.8	-24.5	1	0	46.5	53.97	-7.47	74	-27.5
5	6293.853	33.15	PK	35.4	-23.7	0.2	0	45.05	53.97	-8.92	74	-28.95
Horizontal 7600 - 18000MHz												
3*	14715.242	34.01	PK	39.7	-16	0.1	0	57.81	53.97	3.84	74	-16.19
Vertical 7600 - 18000MHz												
6*	17209.995	31.38	PK	41.2	-14.4	0.4	0	58.58	53.97	4.61	74	-15.42
Horizontal 10000 - 18000MHz												
7	14705.647	22.77	PK	39.7	-16	0	0	46.47	53.97	-7.5	74	-27.53
Vertical 10000 - 18000MHz												
8*	17108.446	21.27	PK	41.1	-14.6	0.3	0	48.07	53.97	-5.9	74	-25.93

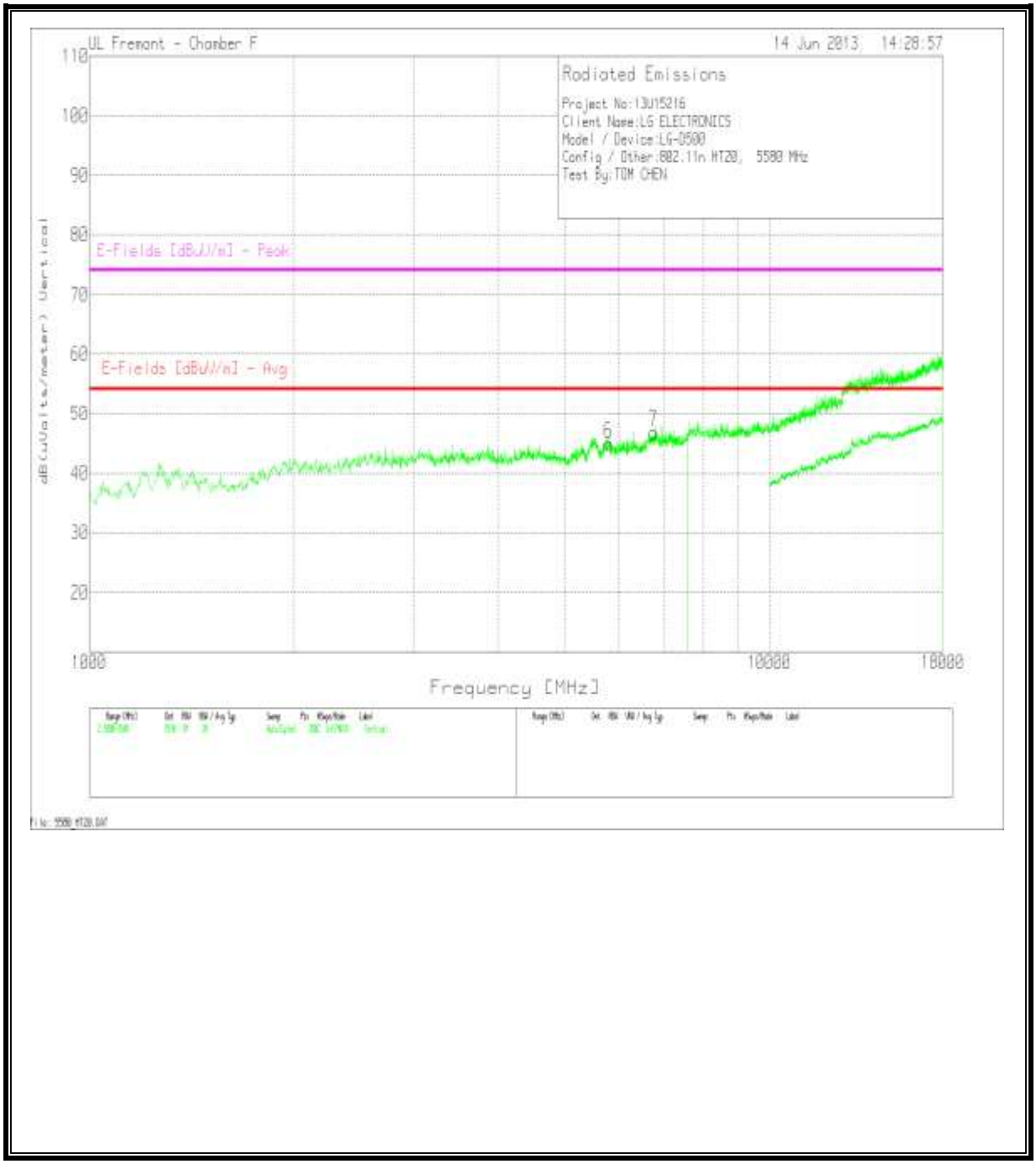
*=Not in the restricted band

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector

MID CHANNEL, HORIZONTAL



MID CHANNEL, VERTICAL



DATA

Project No:13U15216
Client Name:LG ELECTRONICS
Model / Device:LG-D500
Config / Other:802.11n HT20, 5580 MHz
Test By:TOM CHEN

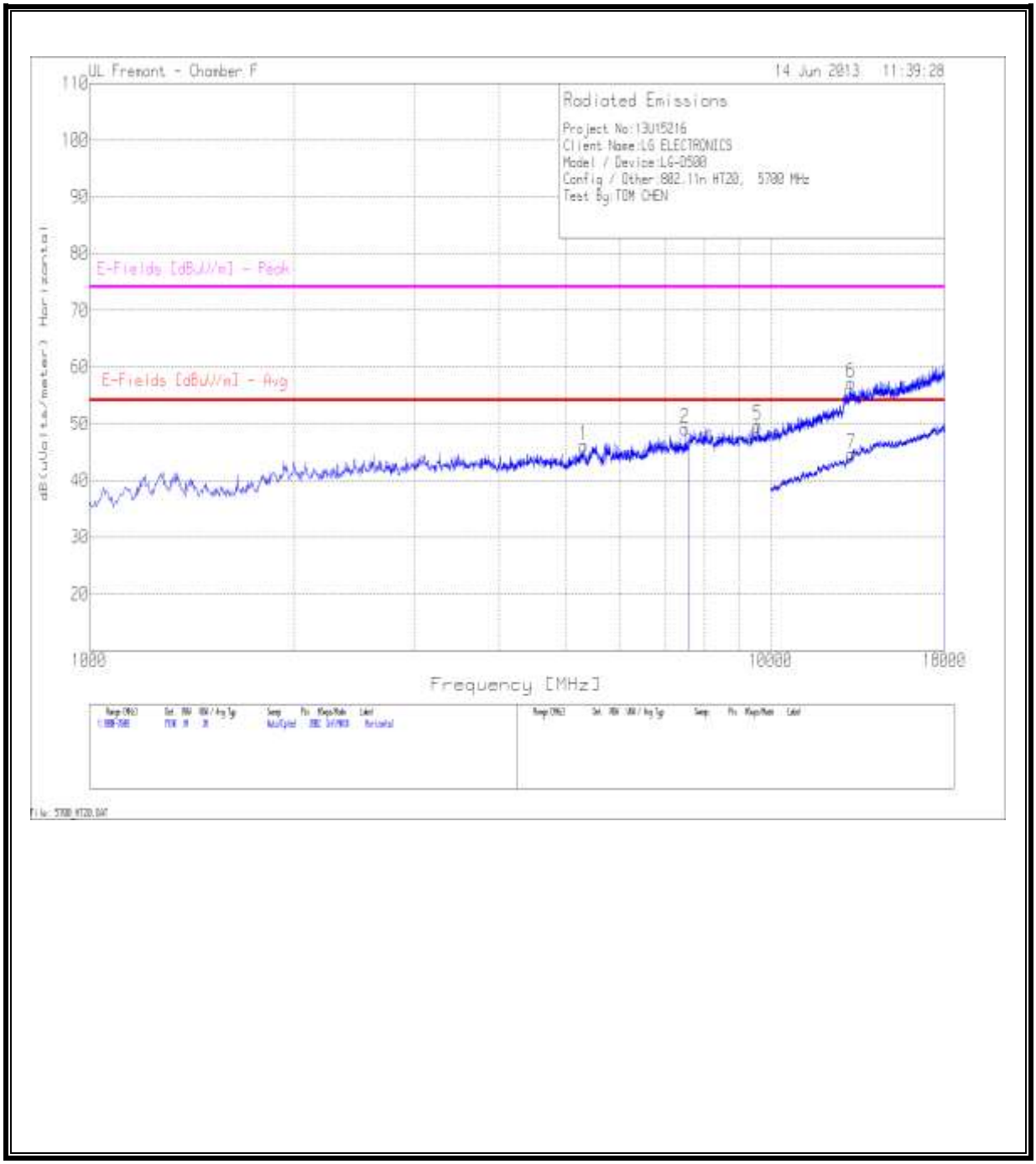
Horizontal 1000 - 7600MHz

Marker No.	Test Frequency(MHz)	Meter Reading(dBuV)	Detector	T119 Ant Factor [dB/m]	T34 Preamp/ Cable	T161 BRF [dB]	DC Corr [dB]	Corrected Reading	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)
1	5495.652	34.32	PK	34.8	-24.5	1	0	45.62	53.97	-8.35	74	-28.38
2	6115.742	36.09	PK	35.3	-24	0.3	0	47.69	53.97	-6.28	74	-26.31
3*	7181.109	35.46	PK	35.6	-23.1	0.2	0	48.16	53.97	-5.81	74	-25.84
Vertical 1000 - 7600MHz												
6	5802.399	33.41	PK	34.9	-24.3	1	0	45.01	53.97	-8.96	74	-28.99
7	6758.921	34.45	PK	35.6	-23.3	0.2	0	46.95	53.97	-7.02	74	-27.05
Horizontal 7600 - 18000MHz												
4	17423.088	33.33	PK	41.3	-14.3	0.3	0	60.63	53.97	6.66	74	-13.37
Horizontal 10000 - 18000MHz												
5*	17356.322	21.65	PK	41.3	-14.3	0.3	0	48.95	53.97	-5.02	74	-25.05

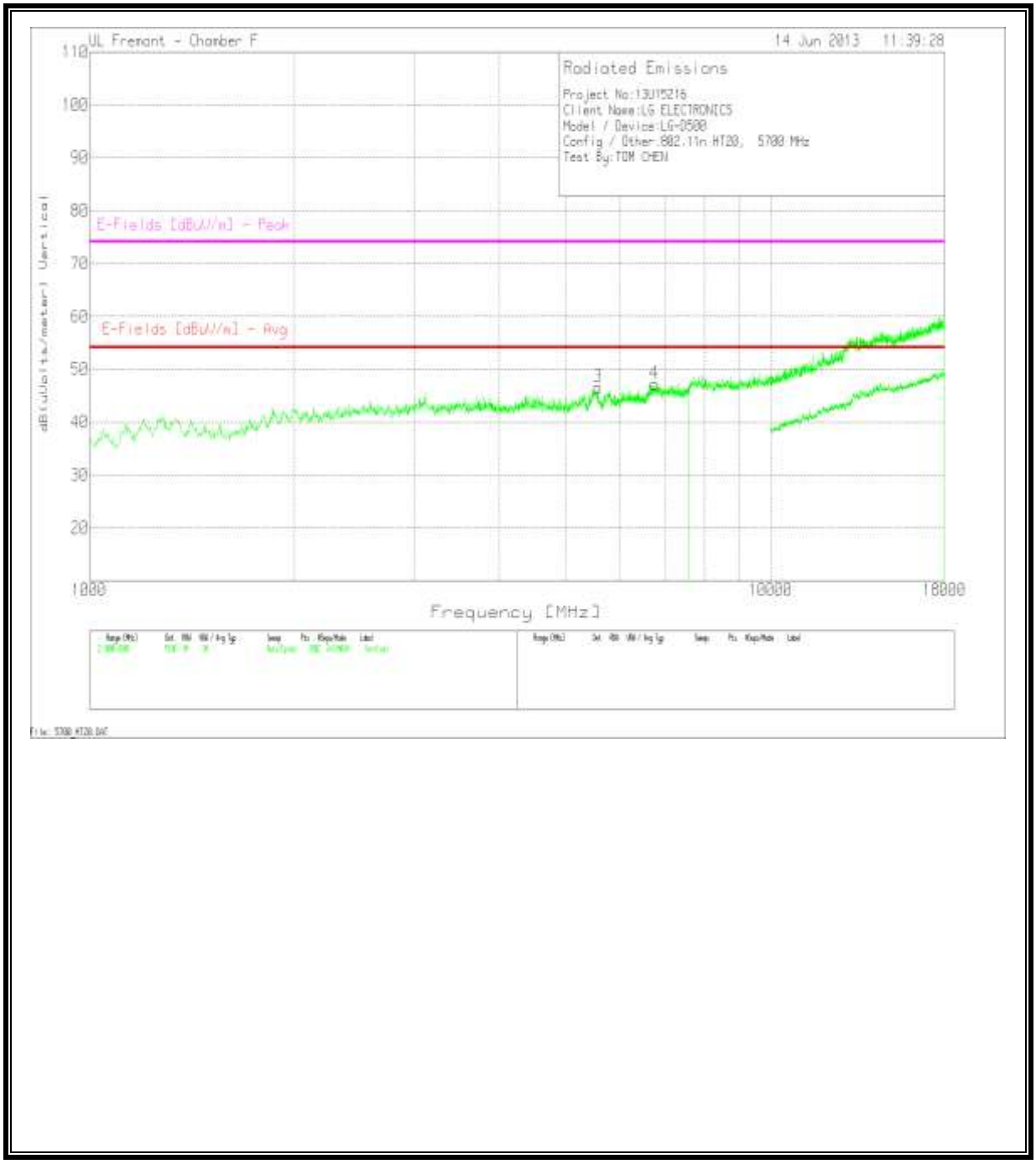
*=Not in the restricted band

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector

HIGH CHANNEL, HORIZONTAL



HIGH CHANNEL, VERTICAL



DATA

Project No:13U15216
Client Name:LG ELECTRONICS
Model / Device:LG-D500
Config / Other:802.11n HT20, 5700 MHz
Test By:TOM CHEN

Horizontal 1000 - 7600MHz

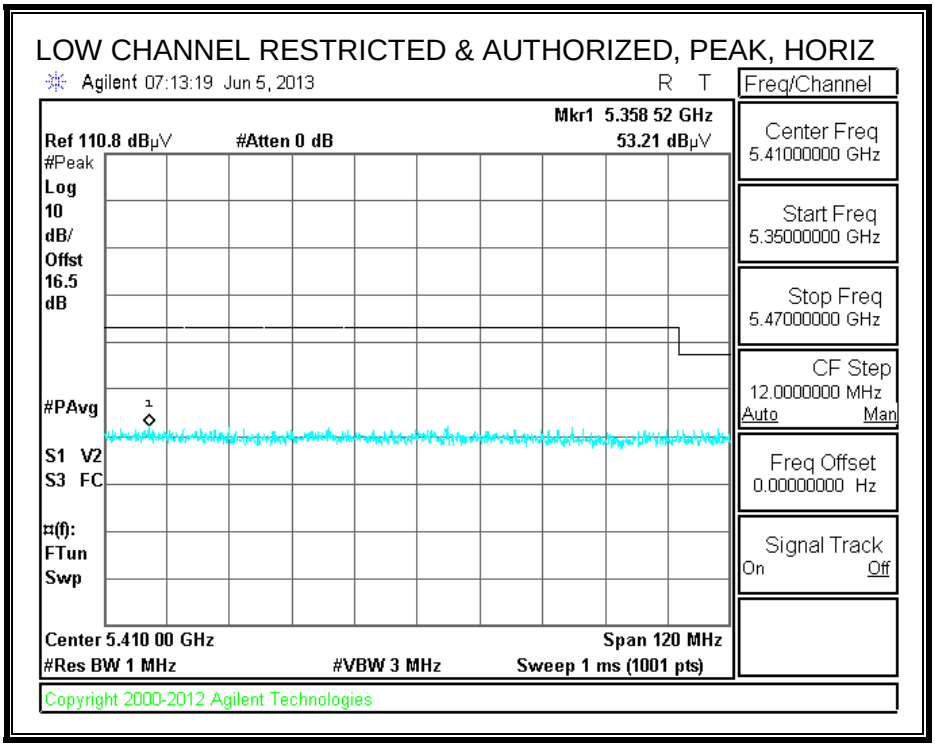
Marker No.	Test Frequency(MHz)	Meter Reading(dBuV)	Detector	T119 Ant Factor [dB/m]	T34 Preamp/ Cable	T161 BRF [dB]	DC Corr [dB]	Corrected Reading	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)
1	5317.541	35.37	PK	34.4	-24.6	1	0	46.17	53.97	-7.8	74	-27.83
2	7491.154	36.13	PK	35.7	-22.9	0.2	0	49.13	53.97	-4.84	74	-24.87
Vertical 1000 - 7600MHz												
3	5581.409	35.14	PK	34.8	-24.4	1	0	46.54	53.97	-7.43	74	-27.46
4	6752.324	34.73	PK	35.6	-23.3	0.2	0	47.23	53.97	-6.74	74	-26.77
Horizontal 7600 - 18000MHz												
5*	9575.012	34.64	PK	36.7	-21.8	0.1	0	49.64	53.97	-4.33	74	-24.36
6*	13119.64	34.71	PK	39.1	-16.9	0.3	0	57.21	53.97	3.24	74	-16.79
Horizontal 10000 - 18000MHz												
7	13146.427	21.88	PK	39.1	-16.8	0.5	0	44.68	53.97	-9.29	74	-29.32

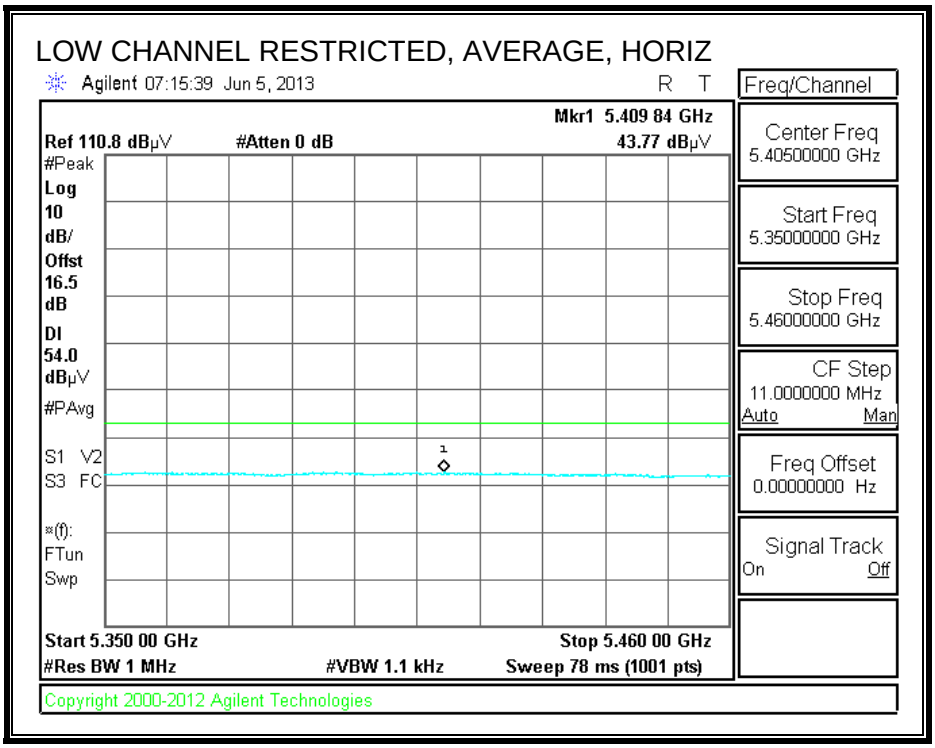
*=Not in the restricted band

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector

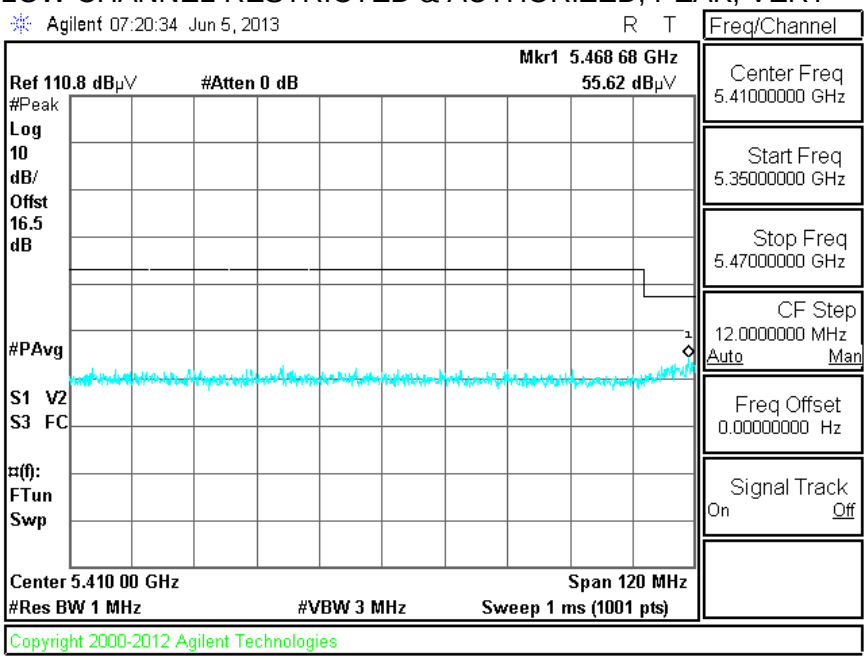
7.10. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.6 GHz BAND

RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)

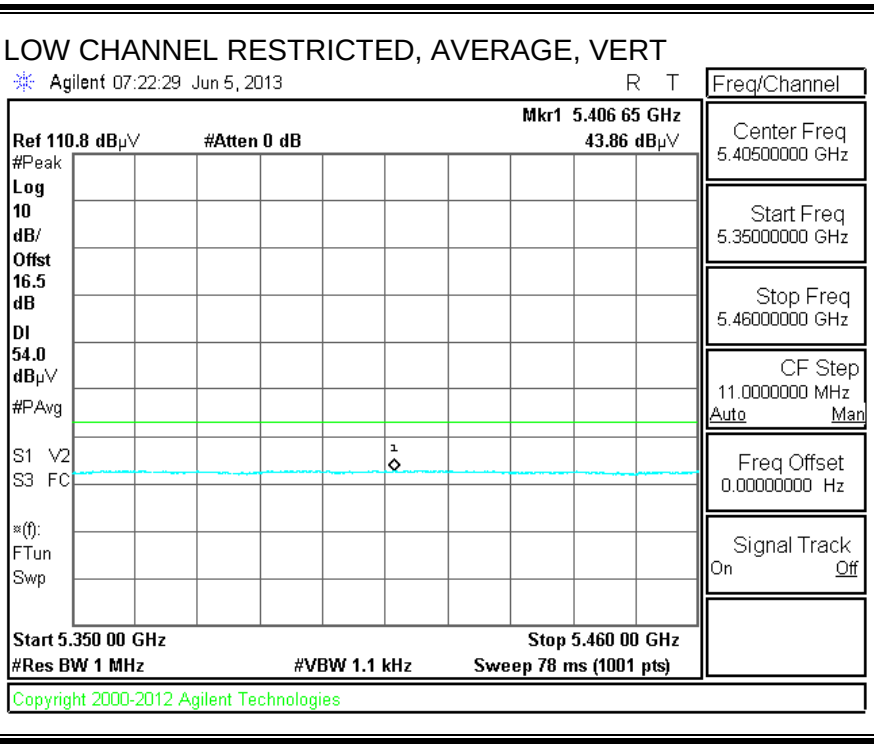




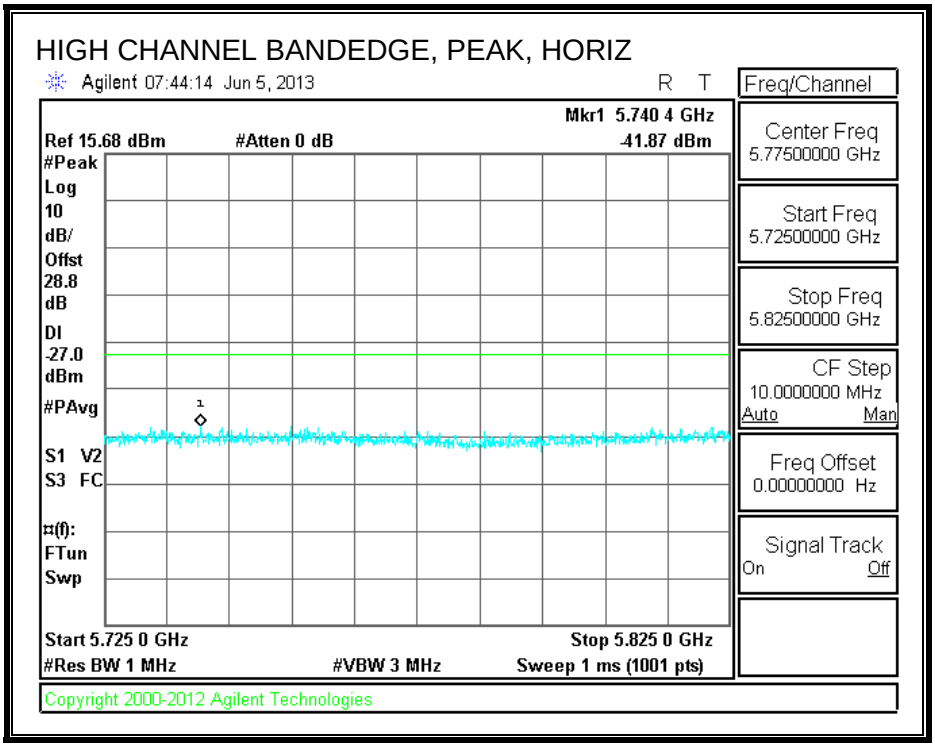
LOW CHANNEL RESTRICTED & AUTHORIZED, PEAK, VERT

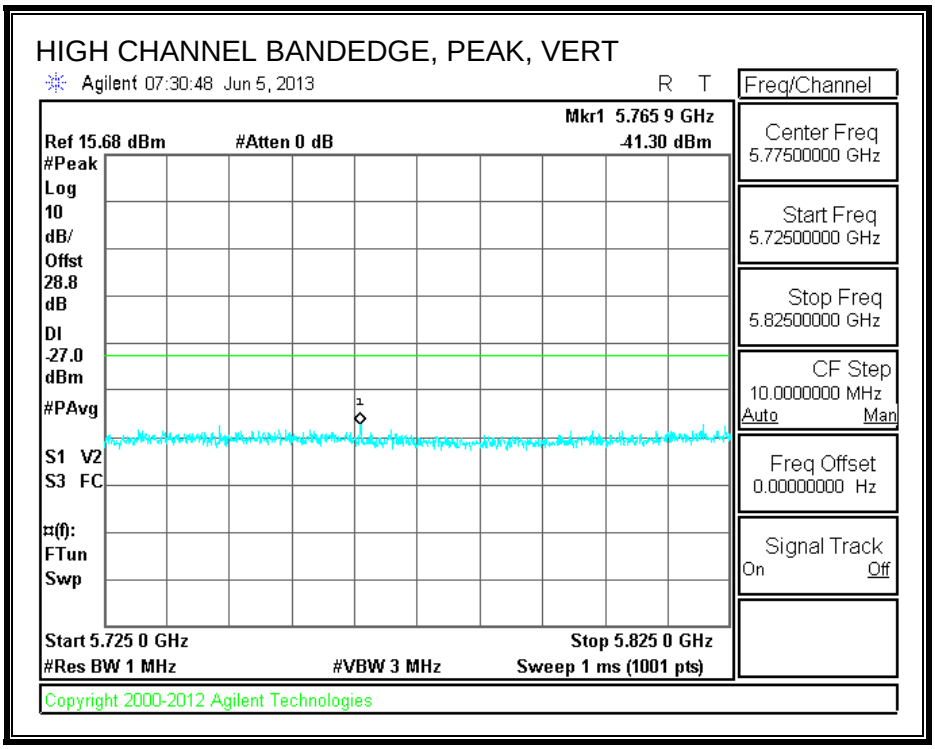


LOW CHANNEL RESTRICTED, AVERAGE, VERT



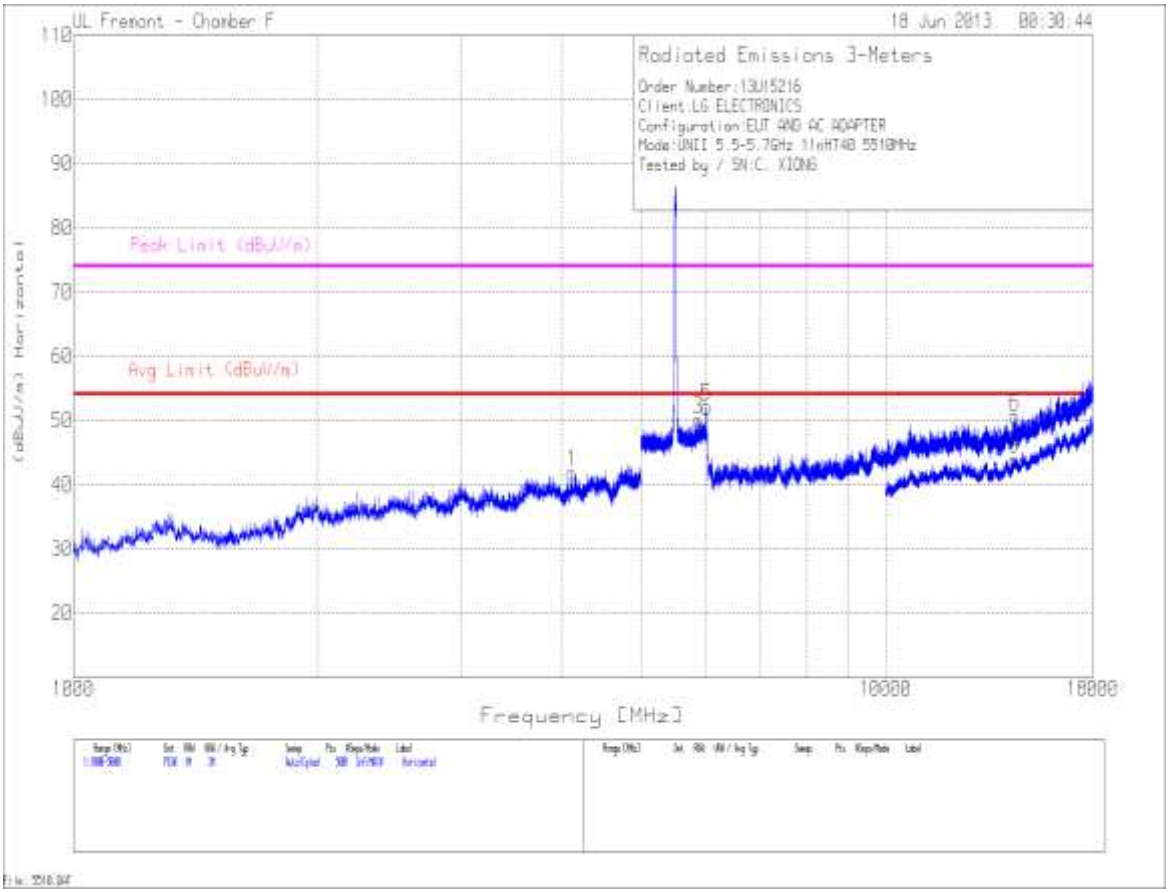
AUTHORIZED BANDEDGE (HIGH CHANNEL)



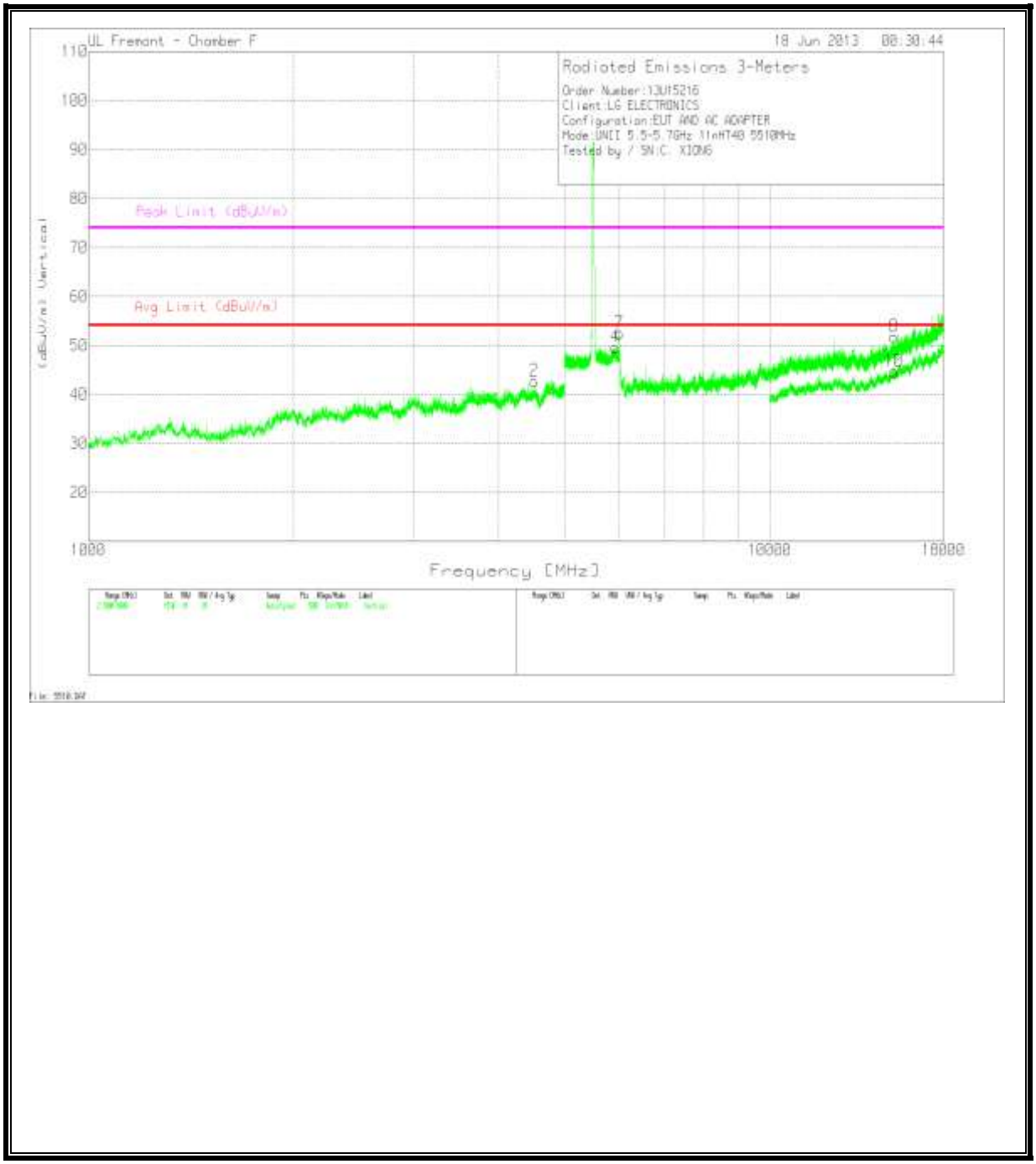


HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, HORIZONTAL



LOW CHANNEL, VERTICAL



DATA

Order Number:13U15216
Client:LG ELECTRONICS
Configuration:EUT AND AC ADAPTER
Mode:UNII 5.5-5.7GHz 11nHT40 5510MHz
Tested by / SN:C. XIONG

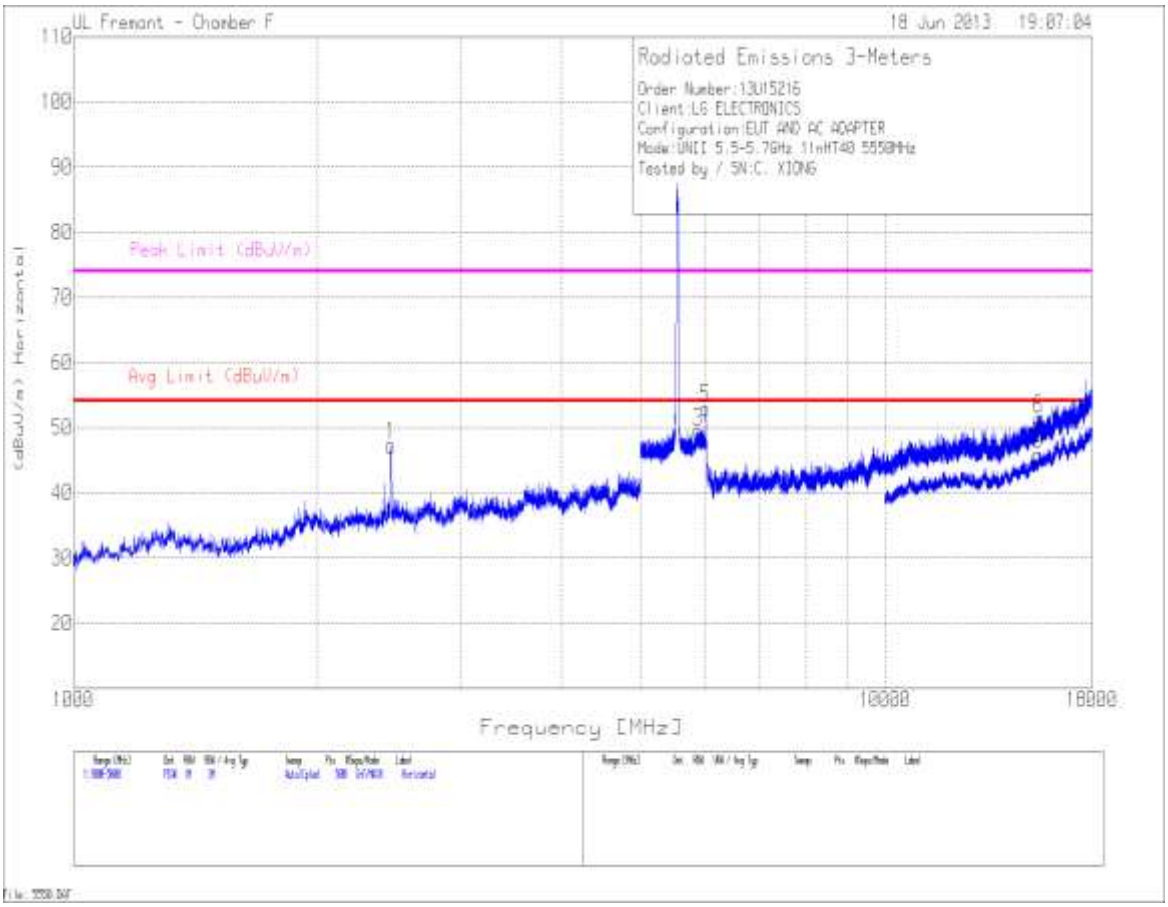
Horizontal 1000 - 5000MHz

Marker No.	Test Frequency(MHz)	Meter Reading(dBuV)	Detector	AF T120 (dB/m)	Amp/Cbl /Fltr/Pad (dB)	Corrected Reading	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m	Margin (dB)	Height [cm]	Polarity
1	4108.8	40.09	PK	33.4	-31.6	41.89	53.97	-12.08	74	-32.11	101	Horz
Vertical 1000 - 5000MHz												
2	4510.4	39.49	PK	33.9	-30.7	42.69	53.97	-11.28	74	-31.31	199	Vert
Horizontal 5000 - 6015MHz												
3*	5881.02	35.95	PK	35.2	-21	50.15	53.97	-3.82	74	-23.85	199	Horz
Vertical 5000 - 6015MHz												
4*	5931.263	35.38	PK	35.3	-21	49.68	53.97	-4.29	74	-24.32	101	Vert
Horizontal 6015 - 18000MHz												
5*	6016.997	38.13	PK	35.3	-21.3	52.13	53.97	-1.84	74	-21.87	100	Horz
6*	14432.762	37.12	PK	39.9	-26.4	50.62	53.97	-3.35	74	-23.38	100	Horz
Vertical 6015 - 18000MHz												
7*	6015.999	38.22	PK	35.3	-21	52.52	53.97	-1.45	74	-21.48	199	Vert
8*	15225.704	37	PK	40.3	-25.5	51.8	53.97	-2.17	74	-22.2	199	Vert
Horizontal 10000 - 18000MHz												
9	14429.333	30.46	PK	39.9	-26.4	43.96	53.97	-10.01	74	-30.04	199	Horz
Vertical 10000 - 18000MHz												
10	15220.444	29.78	PK	40.3	-25.4	44.68	53.97	-9.29	74	-29.32	199	Vert

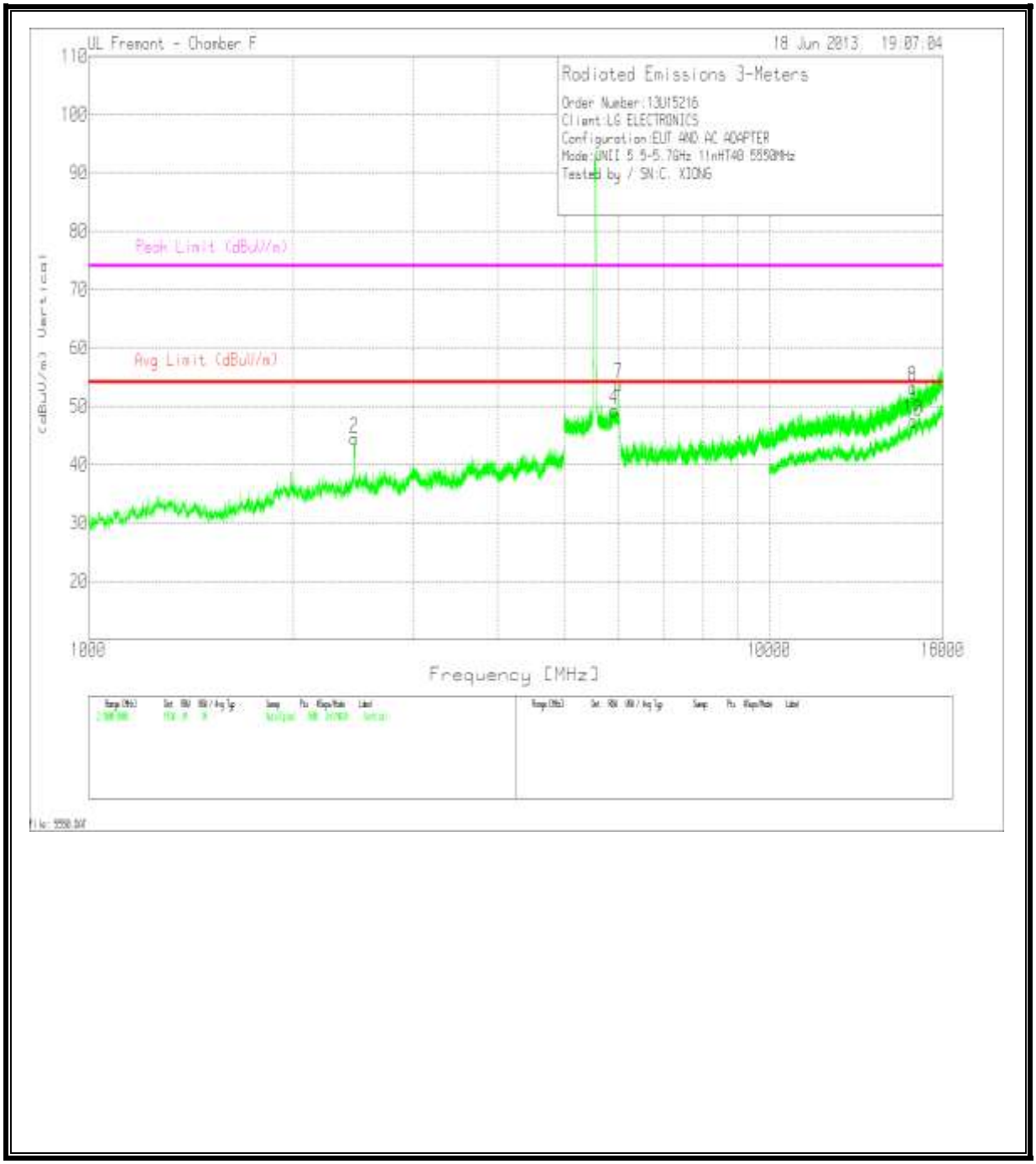
*=Not in the restricted band

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector

MID CHANNEL, HORIZONTAL



MID CHANNEL, VERTICAL



DATA

Order Number:13U15216
Client:LG ELECTRONICS
Configuration:EUT AND AC ADAPTER
Mode:UNII 5.5-5.7GHz 11nHT40 5550MHz
Tested by / SN:C. XIONG

Horizontal 1000 - 5000MHz

Marker No.	Test Frequency(MHz)	Meter Reading(dBuV)	Detector	AF T120 (dB/m)	Amp/Cbl /Fltr/Pad (dB)	d Reading (dBuV/m	Avg Limit (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Margin (dB)	Height [cm]	Polarity
1	2462.4	48.07	PK	32.4	-33.2	47.27	53.97	-6.7	74	-26.73	199	Horz
Vertical 1000 - 5000MHz												
2	2459.2	45.46	PK	32.3	-33.3	44.46	53.97	-9.51	74	-29.54	200	Vert
Horizontal 5000 - 6015MHz												
3*	5887.11	35.17	PK	35.2	-21	49.37	53.97	-4.6	74	-24.63	101	Horz
Vertical 5000 - 6015MHz												
4*	5922.128	34.91	PK	35.3	-20.9	49.31	53.97	-4.66	74	-24.69	101	Vert
Horizontal 6015 - 18000MHz												
5*	6015	38.39	PK	35.3	-20.7	52.99	53.97	-0.98	74	-21.01	101	Horz
6	15468.38	35.51	PK	40.7	-24.9	51.31	53.97	-2.66	74	-22.69	199	Horz
Vertical 6015 - 18000MHz												
7*	6015	39.18	PK	35.3	-20.7	53.78	53.97	-0.19	74	-20.22	100	Vert
8*	16257.326	35.16	PK	41.1	-23	53.26	53.97	-0.71	74	-20.74	100	Vert
Horizontal 10000 - 18000MHz												
9	15458.667	30.26	PK	40.7	-25.1	45.86	53.97	-8.11	74	-28.14	199	Horz
Vertical 10000 - 18000MHz												
10	16287.111	29.19	PK	41.2	-22.9	47.49	53.97	-6.48	74	-26.51	101	Vert

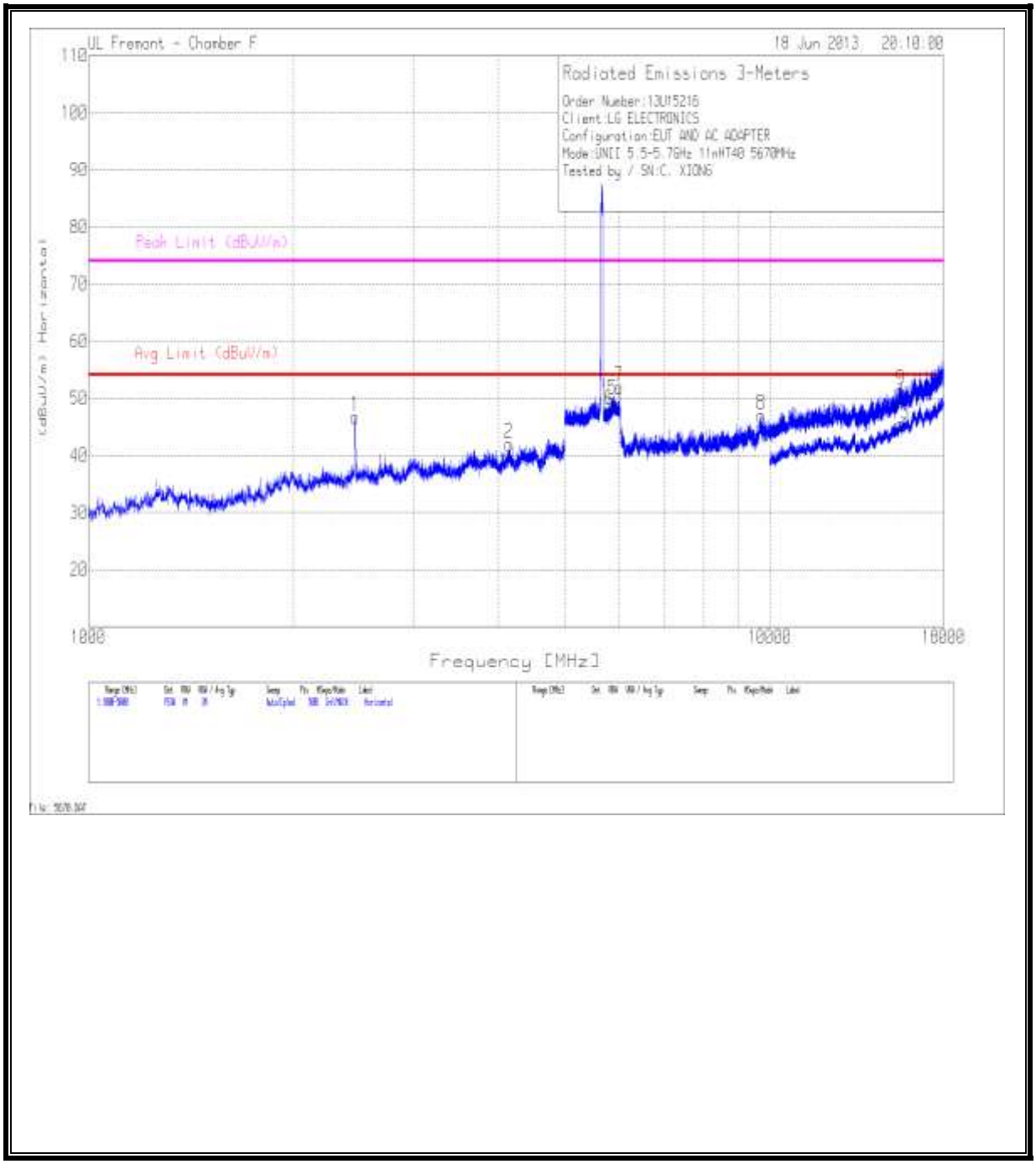
*=Not in the restricted band

Horizontal 6015 - 18000MHz

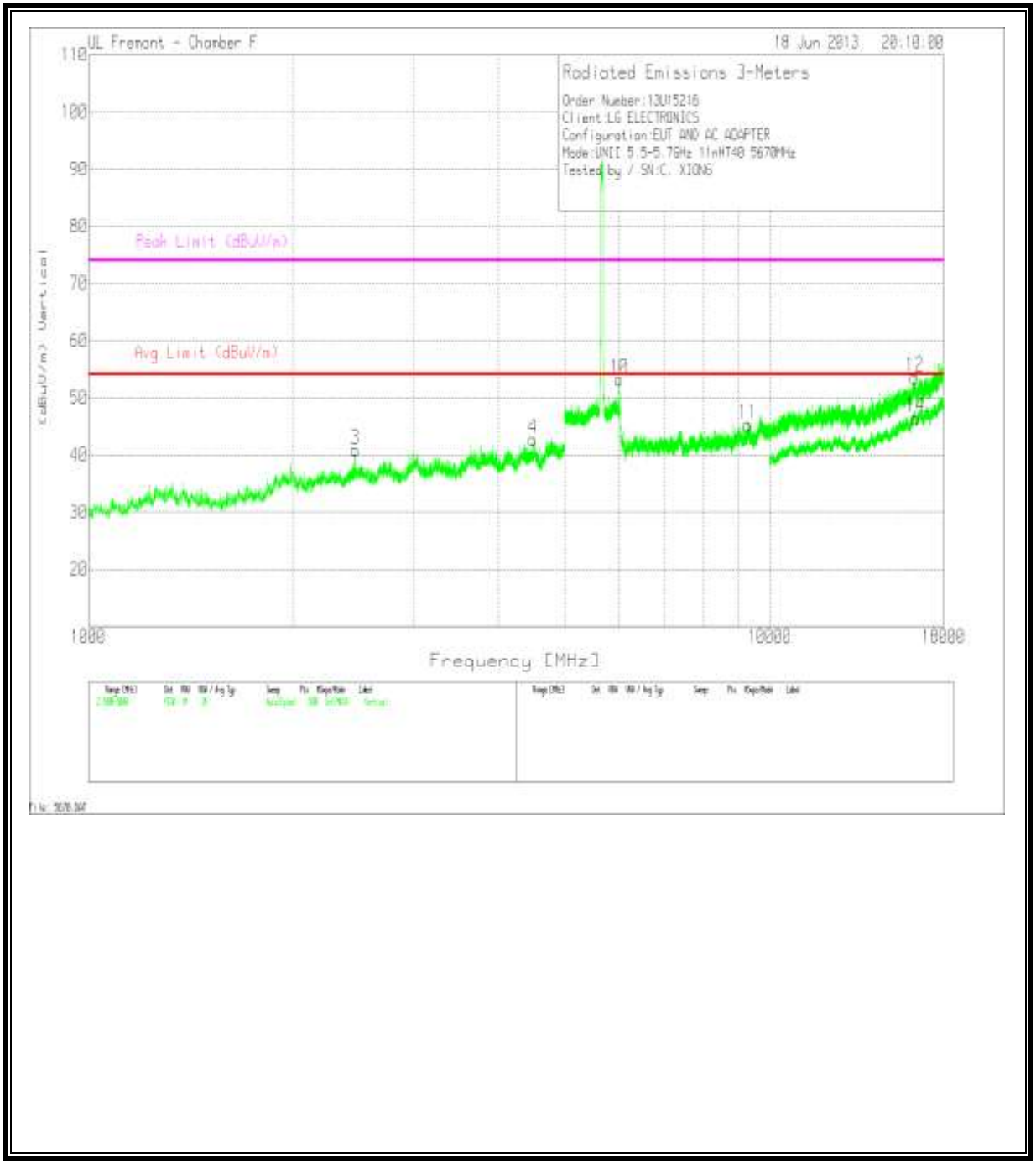
Test Frequency(MHz)	Meter Reading (dBuV)	Detector	AF T120 (dB/m)	Amp/Cbl /Fltr/Pad (dB)	Corrected Reading	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
15481.266	25.8	AD1	40.7	-24.8	41.7	53.97	-12.27	74	-32.3	286	391	Horz

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector
CAV - CISPR Average detector

HIGH CHANNEL, HORIZONTAL



HIGH CHANNEL, VERTICAL



DATA

Order Number:13U15216
Client:LG ELECTRONICS
Configuration:EUT AND AC ADAPTER
Mode:UNII 5.5-5.7GHz 11nHT40 5670MHz
Tested by / SN:C. XIONG

Horizontal 1000 - 5000MHz

Marker No.	Test Frequency(MHz)	Meter Reading(dBuV)	Detector	AF T120 (dB/m)	Amp/Cbl /Fltr/Pad (dB)	Corrected Reading	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m	Margin (dB)	Height [cm]	Polarity
1	2461.6	47.57	PK	32.4	-33.2	46.77	53.97	-7.2	74	-27.23	199	Horz
2	4142.4	40.72	PK	33.4	-32.1	42.02	53.97	-11.95	74	-31.98	199	Horz
Vertical 1000 - 5000MHz												
3	2464	41.72	PK	32.4	-33.2	40.92	53.97	-13.05	74	-33.08	199	Vert
4	4494.4	39.78	PK	33.9	-30.9	42.78	53.97	-11.19	74	-31.22	101	Vert
Horizontal 5000 - 6015MHz												
5*	5877.468	35.61	PK	35.2	-21.1	49.71	53.97	-4.26	74	-24.29	100	Horz
6	5811.493	34.22	PK	35.1	-21.4	47.92	53.97	-6.05	74	-26.08	199	Horz
Horizontal 6015 - 18000MHz												
7*	6015	37.32	PK	35.3	-20.7	51.92	53.97	-2.05	74	-22.08	100	Horz
8	9711.066	35.55	PK	37.4	-25.9	47.05	53.97	-6.92	74	-26.95	199	Horz
9	15569.245	34.99	PK	40.8	-24.4	51.39	53.97	-2.58	74	-22.61	100	Horz
Vertical 6015 - 18000MHz												
10*	6015	38.64	PK	35.3	-20.7	53.24	53.97	-0.73	74	-20.76	199	Vert
11	9281.639	34.96	PK	36.7	-26.3	45.36	53.97	-8.61	74	-28.64	199	Vert
12*	16327.233	35.49	PK	41.3	-23.2	53.59	53.97	-0.38	74	-20.41	199	Vert
Horizontal 10000 - 18000MHz												
13	15567.111	29.06	PK	40.8	-24.4	45.46	53.97	-8.51	74	-28.54	100	Horz
Vertical 10000 - 18000MHz												
14	16373.333	28.42	PK	41.4	-23.3	46.52	53.97	-7.45	74	-27.48	199	Vert

*=Not in the restricted band

Horizontal 6015 - 18000MHz

Test Frequency(MHz)	Meter Reading (dBuV)	Detector	AF T120 (dB/m)	Amp/Cbl /Fltr/Pad (dB)	Corrected Reading	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
15562.965	25.89	AD1	40.8	-24.5	42.19	53.97	-11.78	74	-31.81	111	374	Horz

PK - Peak detector
QP - Quasi-Peak detector
LnAv - Linear Average detector
LgAv - Log Average detector
Av - Average detector