



FCC 47 CFR PART 15 SUBPART C

**C2PC CERTIFICATION TEST REPORT
FOR**

GSM/WCDMA/LTE Tablet + Bluetooth, DTS/UNII a/b/g/n/ac & ANT+

MODEL NUMBER: SM-T805

FCC ID: A3LSMT805

REPORT NUMBER: 14U17572-2 REVISION A

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Prepared for

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NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
--	4/23/14	Initial Issue	P. Kim
A	5/21/14	Updated antenna information	P. Zhang

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.

EUT DESCRIPTION: GSM/WCDMA/LTE Tablet with Bluetooth, DTS/UNII a/b/g/n/ac & ANT+

MODEL: SM-T805

SERIAL NUMBER: R32F203DVSN

DATE TESTED: April 22 - 23, 2014

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Pass

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

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

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2. TEST METHODOLOGY

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

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:

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

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 18000 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 GSM/WCDMA/LTE Tablet with Bluetooth, DTS/UNII a/b/g/n/ac & ANT+.

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	11.48	14.06
2402 - 2480	Enhanced 8PSK	10.78	11.97

Note: GFSK, Pi/4-DQPSK, 8PSK average Power are all investigated, The GFSK & 8PSK Power are the worst case. Testing is based on this mode to showing compliance. For average power data please refer to section 8.6.

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an FPCB antenna, with a maximum gain of -4.24 dBi.

5.4. 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.

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter	Samsung	Samsung	N/A	N/A
Earphone	Samsung	Samsung	N/A	N/A

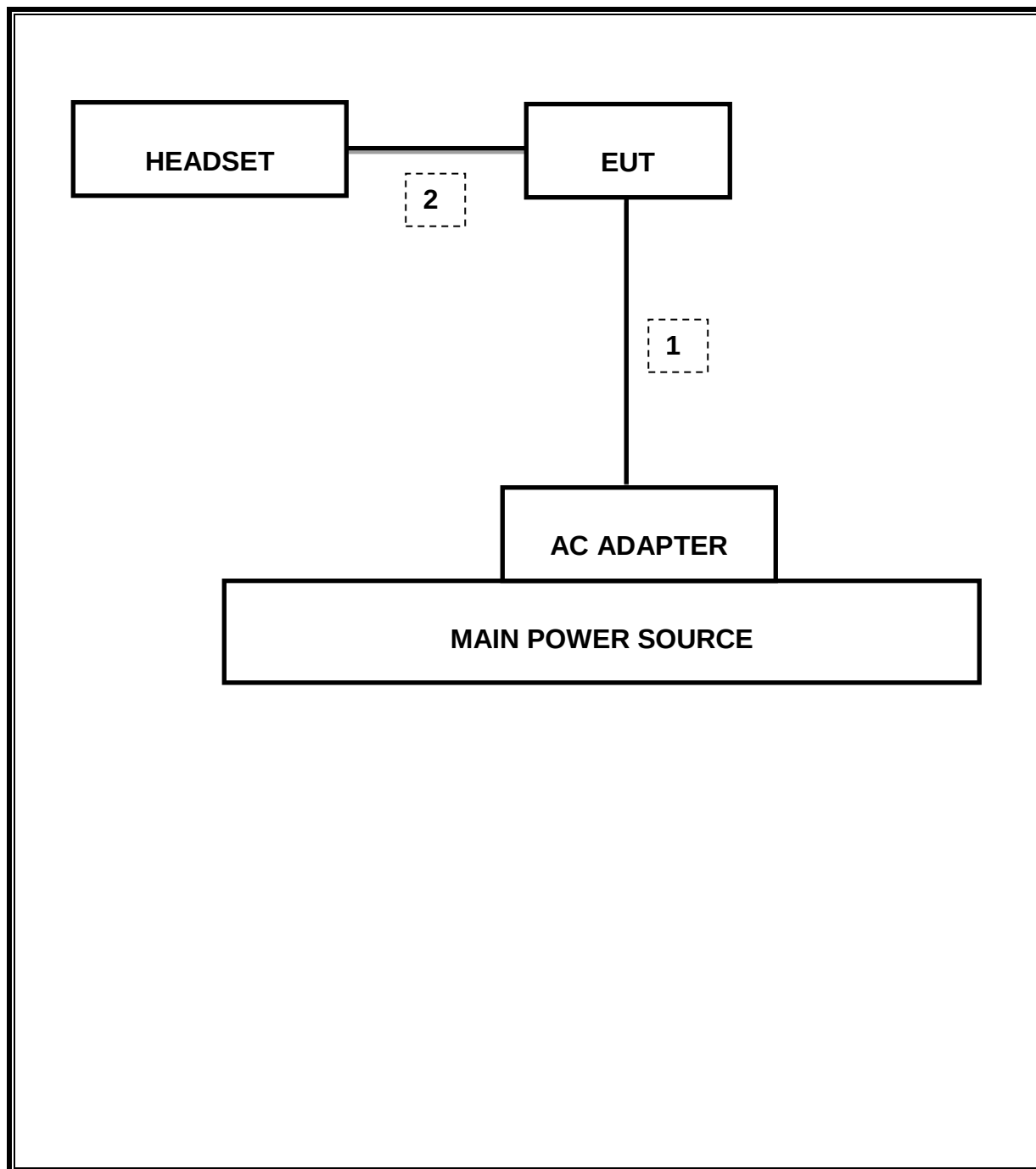
I/O CABLES

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	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	03/23/15
Antenna, Horn, 18GHz	EMCO	3115	C00783	10/25/14
Antenna, Horn, 25.5 GHz	ARA	MWH-1826/B	C00980	11/14/14
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00580	01/28/15
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01052	10/22/14
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01069	12/20/14
CBT Bluetooth Tester	R & S	CBT	None	07/12/14
Peak Power Meter	Agilent / HP	E4416A	C00963	12/13/14
Peak / Average Power Sensor	Agilent / HP	E9327A	C00964	12/13/14
LISN, 30 MHz	FCC	50/250-25-2	C00626	01/14/15
Reject Filter, 2.4GHz	Micro-Tronics	BRM50702	N02684	CNR

7. SUMMARY TABLE

FCC Part Section	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Worst Case
2.1049	RSS-GEN 4.6	Occupied Band width (99%)	N/A	Conducted	Pass	See original
2.1051, 15.247 (d)	RSS-210 A8.5	Band Edge / Conducted Spurious Emission	-20dBc		Pass	See original
15.247 (b)(1)	RSS-210 A8.4	TX conducted output power	<21dBm		Pass	See original
15.247 (a)(1)	RSS-210 A8.1(b)	Hopping frequency separation	> 25KHz		Pass	See original
15.247 (a)(1)(iii)	RSS-210 A8.1(d)	Number of Hopping channels	More than 15 non-overlapping channels		Pass	See original
15.247 (a)(1)(iii)	RSS-210 A8.1(d)	Avg Time of Occupancy	< 0.4sec		Pass	See original
15.207 (a)	RSS-GEN 7.2.2	AC Power Line conducted emissions	Section 10	Radiated	Pass	See original
15.205, 15.209	RSS-210 Clause 2.6, RSS-210 Clause 6	Radiated Spurious Emission	< 54dBuV/m		Pass	40.44dBuV/m

8. RADIATED TEST RESULTS

8.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-210 Clause 2.6 (Transmitter)

IC RSS-GEN Clause 6 (Receiver)

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

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters. 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 1/T (on time) for average measurement. $GFSK = 1/T = 360\text{Hz}$.

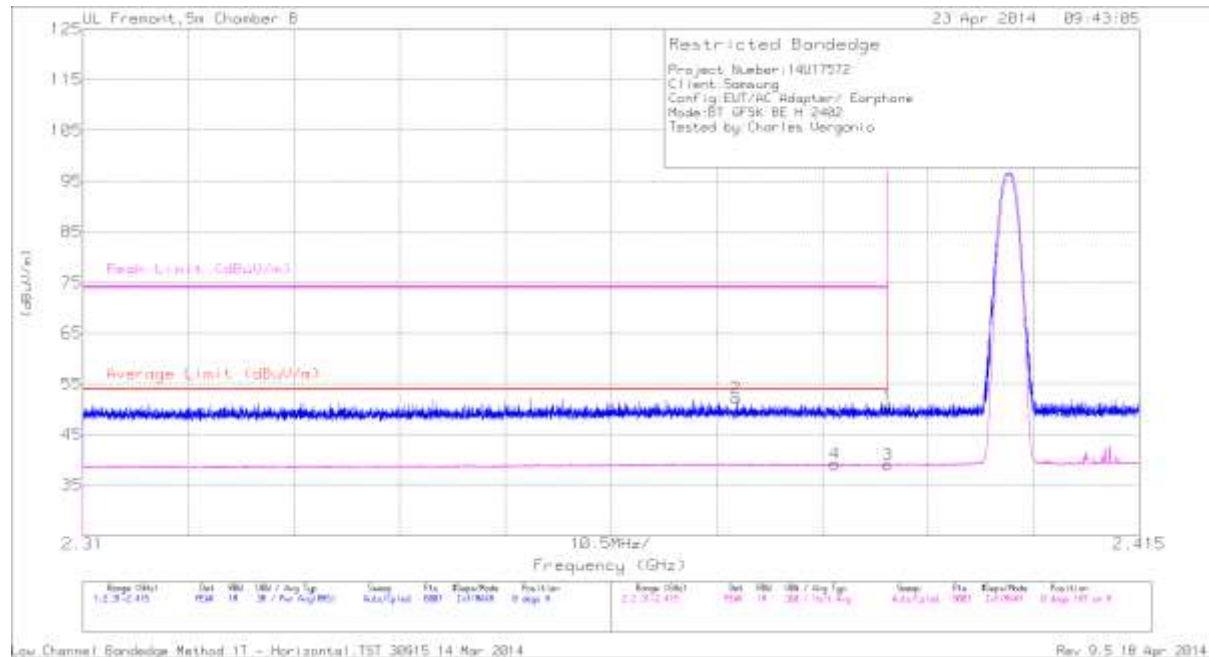
The spectrum from 1GHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

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.

8.2. TRANSMITTER ABOVE 1 GHz

8.2.1. BASIC DATA RATE GFSK MODULATION

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



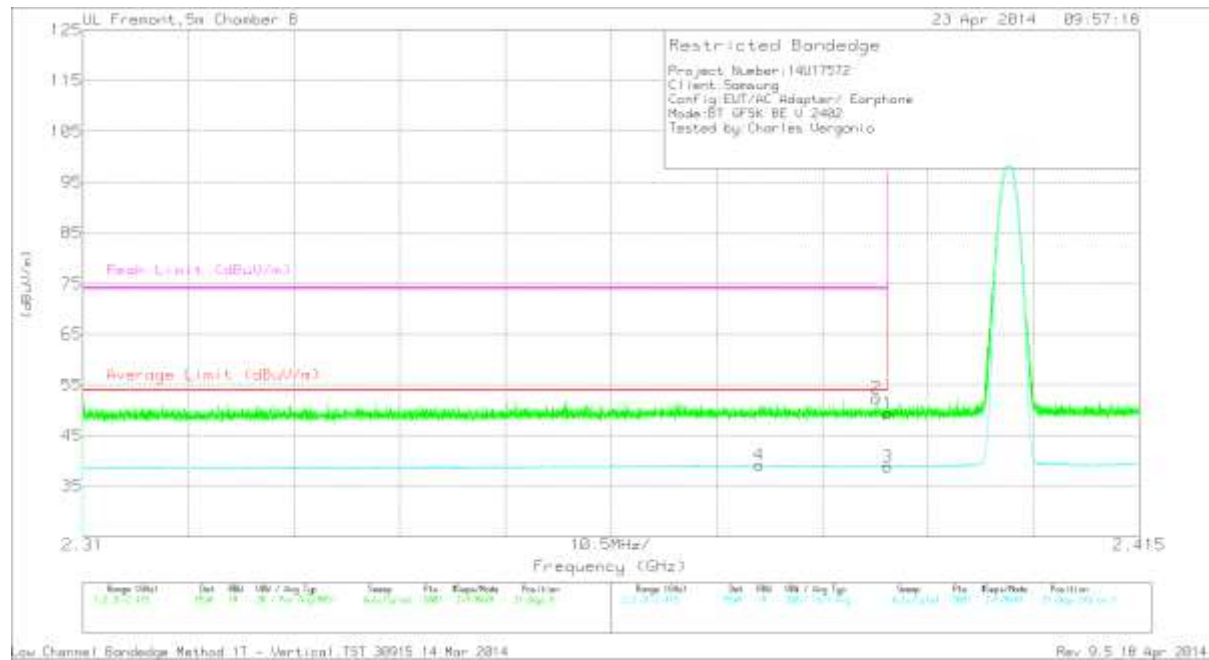
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.38	PK	32.1	-22.9	0	50.58	-	-	74	-23.42	0	107	H
2	* 2.375	42.9	PK	32	-22.8	0	52.1	-	-	74	-21.9	0	107	H
3	* 2.39	29.84	VB1T	32.1	-22.9	0	39.04	54	-14.96	-	-	0	107	H
4	* 2.385	30.06	VB1T	32.1	-22.9	0	39.26	54	-14.74	-	-	0	107	H

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

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEGE (LOW CHANNEL, VERTICAL)



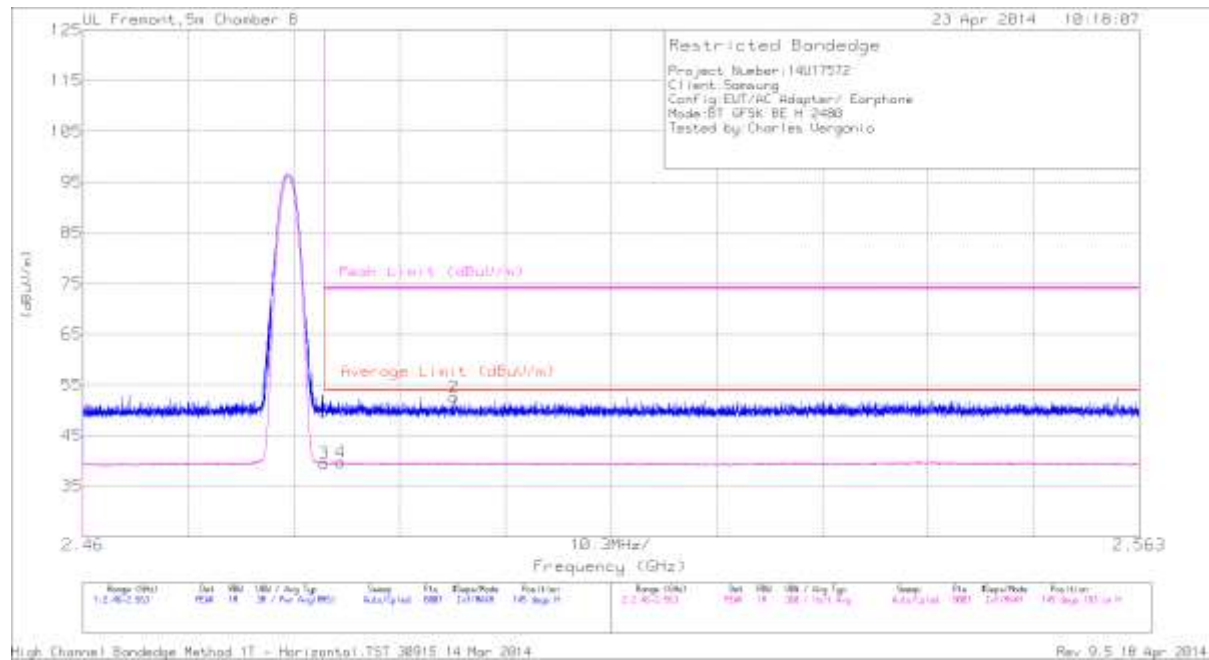
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.23	PK	32.1	-22.9	0	49.43	-	-	74	-24.57	37	246	V
2	* 2.389	43.26	PK	32.1	-22.9	0	52.46	-	-	74	-21.54	37	246	V
3	* 2.39	29.69	VB1T	32.1	-22.9	0	38.89	54	-15.11	-	-	37	246	V
4	* 2.377	30.17	VB1T	32	-22.9	0	39.27	54	-14.73	-	-	37	246	V

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

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



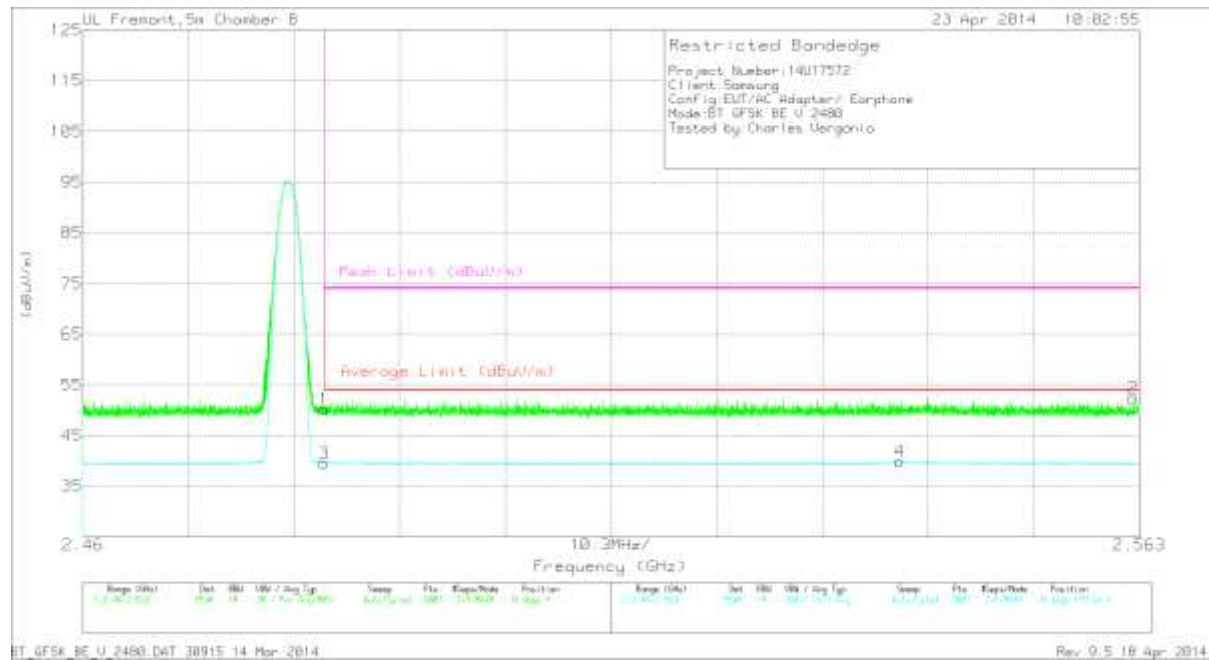
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.93	PK	32.4	-22.6	0	49.73	-	-	74	-24.27	145	193	H
2	* 2.496	42.85	PK	32.4	-22.7	0	52.55	-	-	74	-21.45	145	193	H
3	* 2.484	29.69	VB1T	32.4	-22.6	0	39.49	54	-14.51	-	-	145	193	H
4	* 2.485	29.99	VB1T	32.4	-22.6	0	39.79	54	-14.21	-	-	145	193	H

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

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.32	PK	32.4	-22.6	0	50.12	-	-	74	-23.88	0	178	V
3	* 2.484	29.66	VB1T	32.4	-22.6	0	39.46	54	-14.54	-	-	0	178	V
4	2.54	29.91	VB1T	32.5	-22.6	0	39.81	54	-14.19	-	-	0	178	V
2	2.562	42.72	PK	32.5	-22.8	0	52.42	-	-	74	-21.58	0	178	V

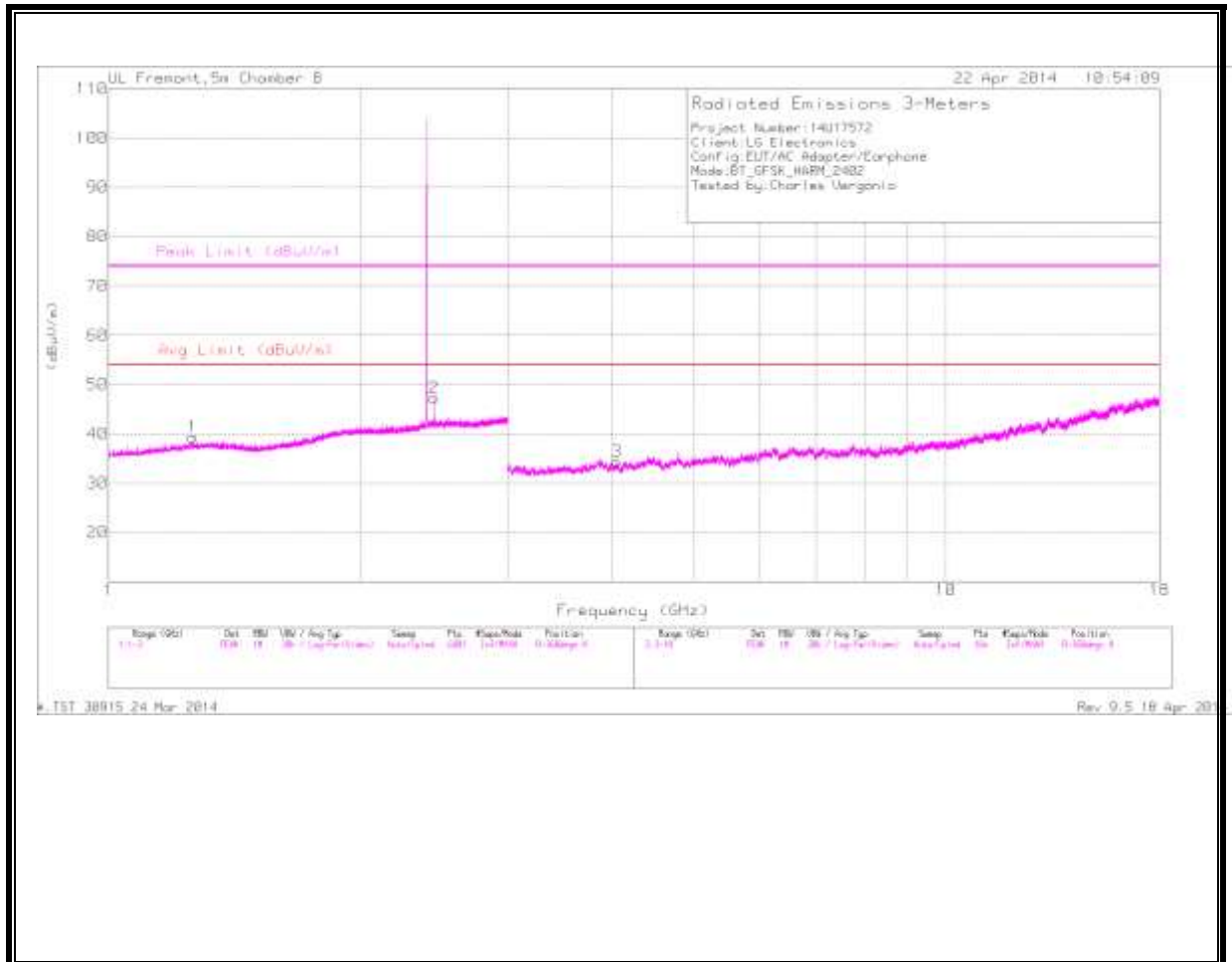
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

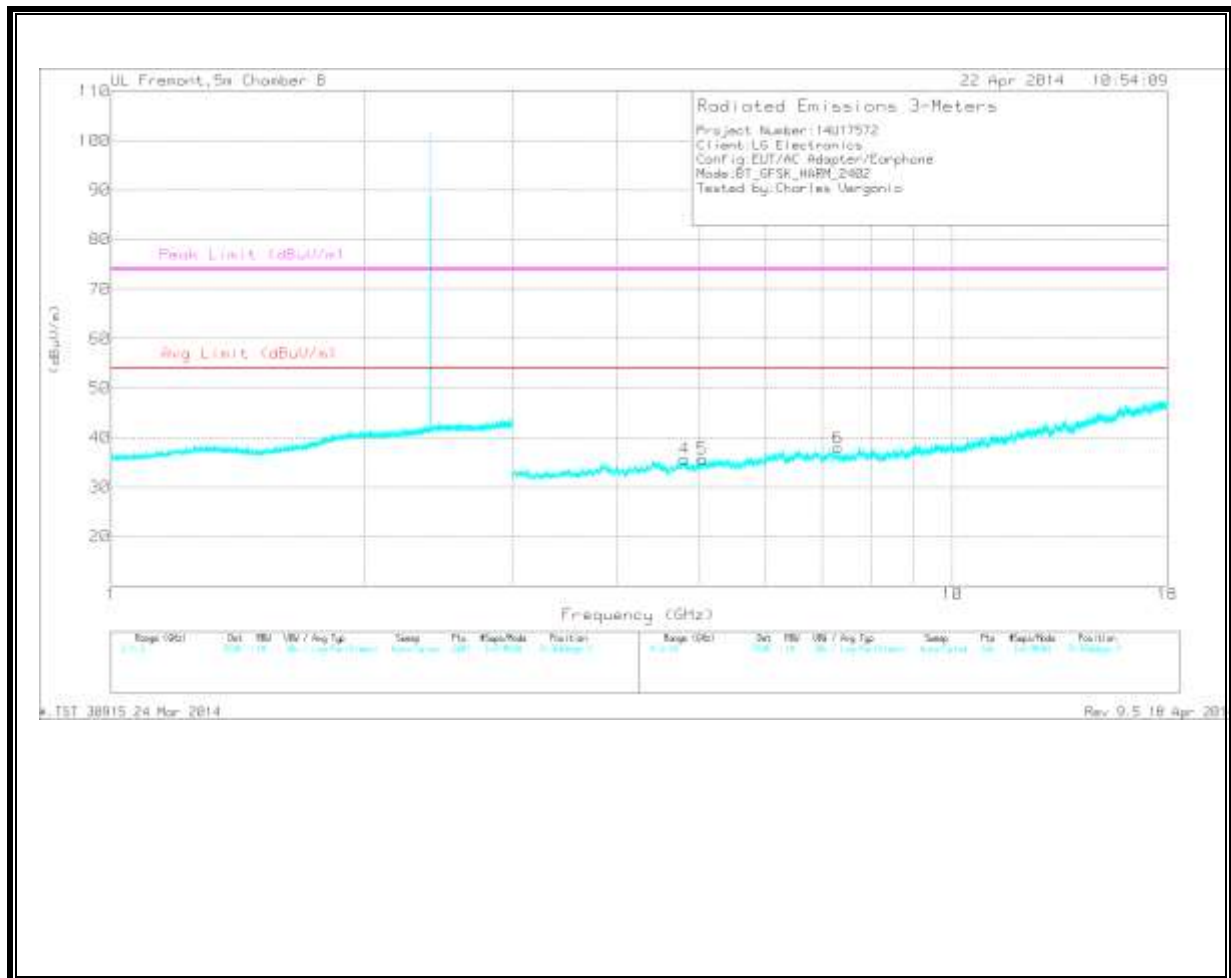
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

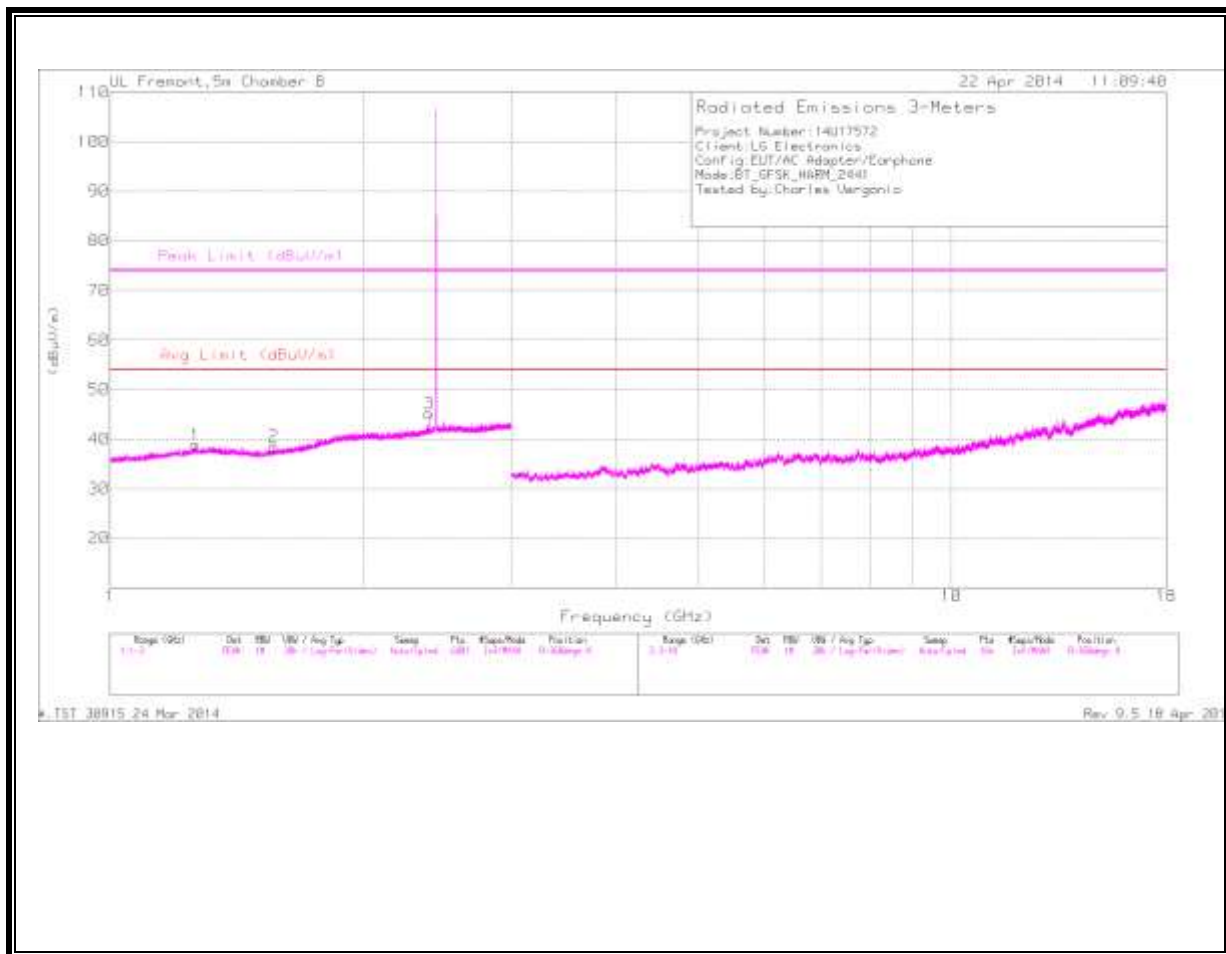
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.259	44.28	PK3	28.6	-24.6	48.28	54	-5.72	74	-25.72	1	100	H
* 4.051	41.33	PK3	33.6	-30.8	44.13	54	-9.87	74	-29.87	1	100	H
* 4.803	39.33	PK3	34.2	-28.8	44.73	54	-9.27	74	-29.27	1	100	V
* 5.044	39.54	PK3	34.2	-28.7	45.04	54	-8.96	74	-28.96	1	100	V
* 7.314	39.63	PK3	35.6	-27.7	47.53	54	-6.47	74	-26.47	1	100	V
2.45	43.31	PK3	32.3	-22.8	52.81	54	-1.19	74	-21.19	1	100	H
2.45	30.6	VB1T	32.3	-22.8	40.1	54	-13.9	74	-33.9	1	100	H

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

PK3 - FHSS Method: Maximum Peak

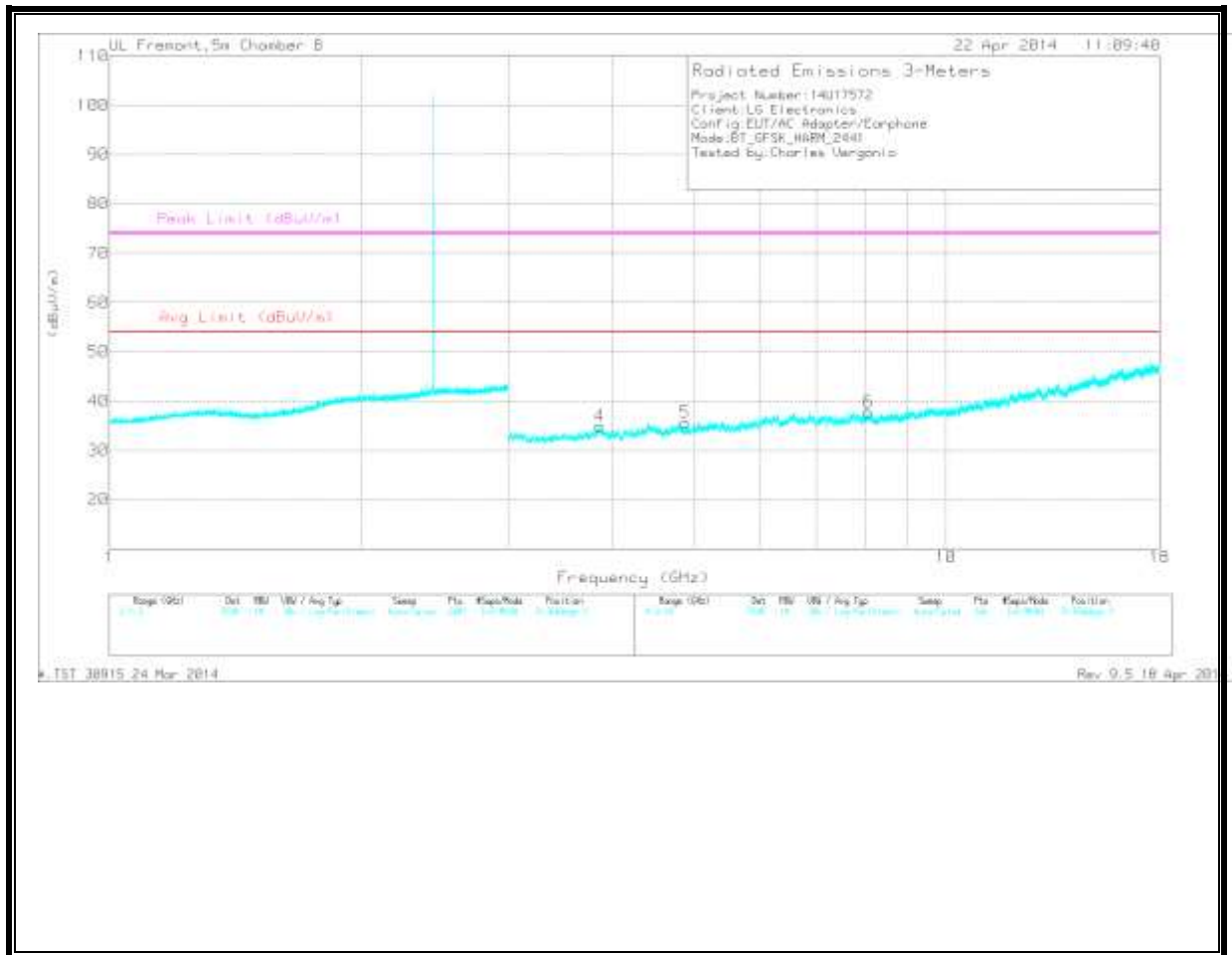
VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

MID CHANNEL
HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

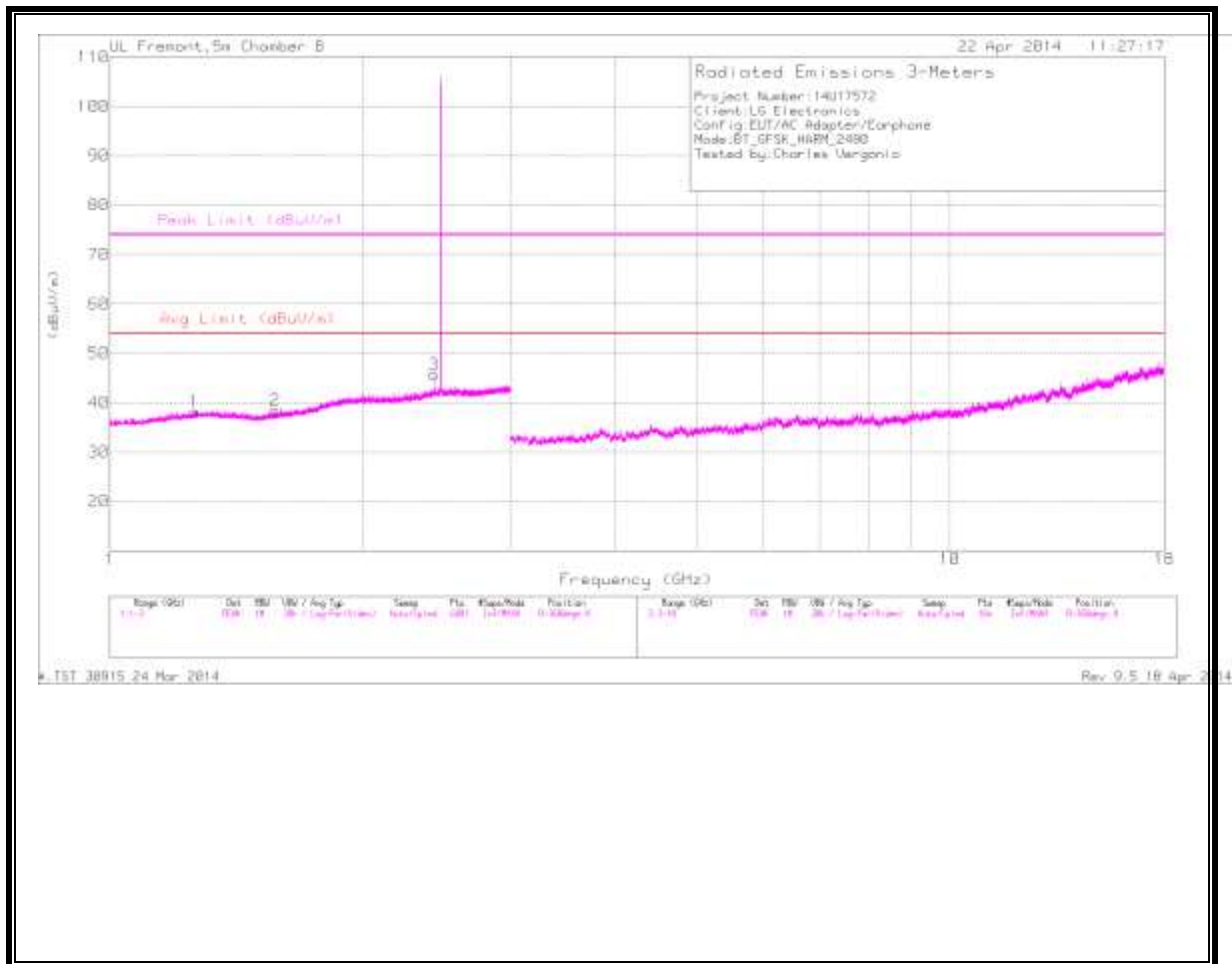
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.263	43.83	PK3	28.6	-24.6	47.83	54	-6.17	74	-26.17	1	100	H
* 1.563	43.29	PK3	28.3	-24.2	47.39	54	-6.61	74	-26.61	1	100	H
* 3.852	41.43	PK3	33.7	-30.2	44.93	54	-9.07	74	-29.07	1	100	V
* 4.881	40.74	PK3	34.2	-30.6	44.34	54	-9.66	74	-29.66	1	100	V
* 8.075	37.1	PK3	35.7	-26	46.8	54	-7.2	74	-27.2	1	100	V
2.393	43.08	PK3	32.1	-22.9	52.28	54	-1.72	74	-21.72	1	100	H
2.393	30.11	VB1T	32.1	-22.9	39.31	54	- 14.69	74	-34.69	1	100	H

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

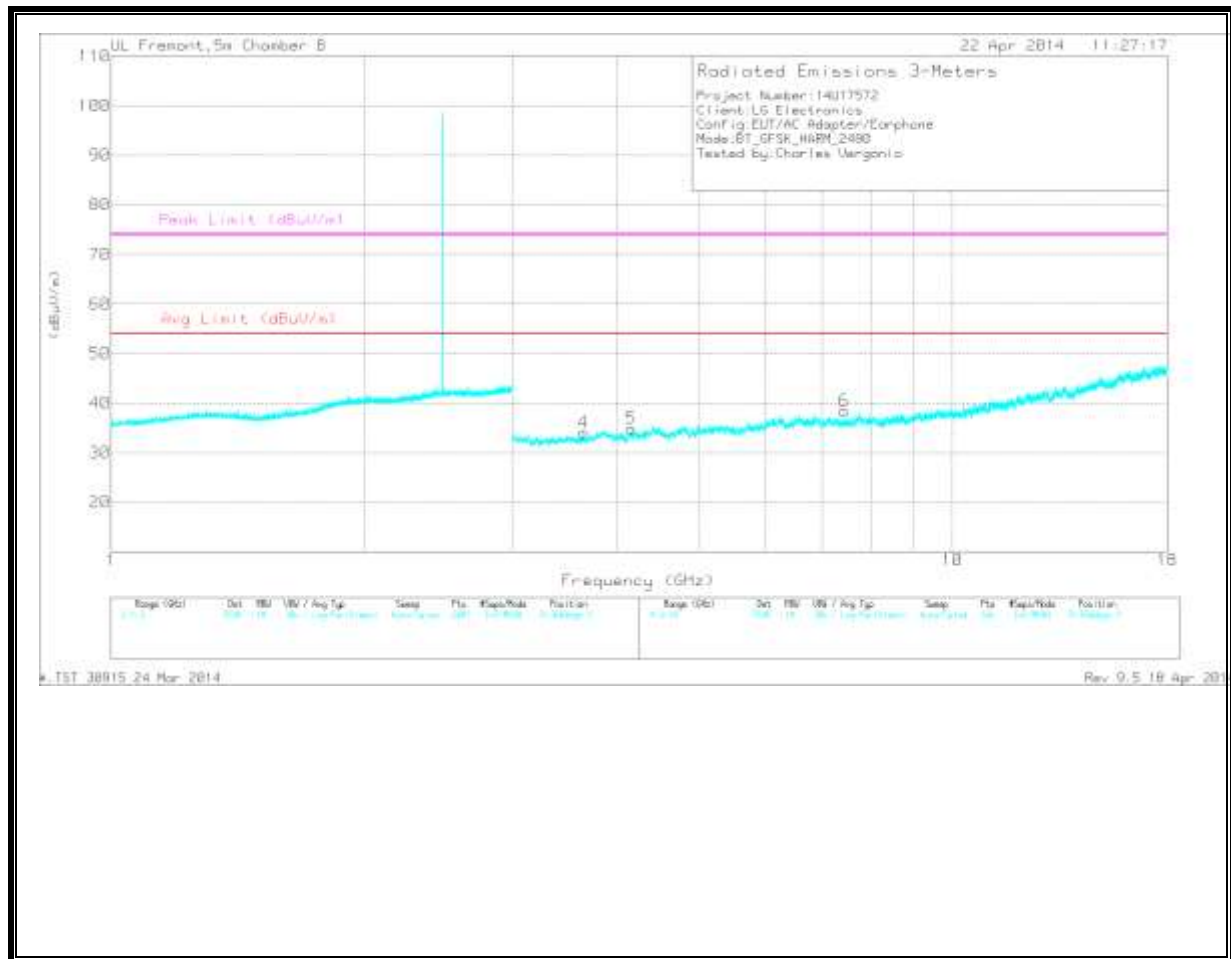
PK3 - FHSS Method: Maximum Peak

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

HIGH CHANNEL
HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.



HIGH CHANNEL DATA

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.261	43.98	PK3	28.6	-24.6	47.98	54	-6.02	74	-26.02	1	100	H
* 1.575	43.44	PK3	28.4	-24.1	47.74	54	-6.26	74	-26.26	1	100	H
* 3.644	41.15	PK3	33.2	-31	43.35	54	-10.65	74	-30.65	1	100	V
* 4.146	40.22	PK3	33.6	-29.7	44.12	54	-9.88	74	-29.88	1	100	V
* 7.44	37.56	PK3	35.6	-26.8	46.36	54	-7.64	74	-27.64	1	100	V
2.432	42.92	PK3	32.2	-22.6	52.52	54	-1.48	74	-21.48	1	100	H
2.432	30.84	VB1T	32.2	-22.6	40.44	54	-13.56	74	-33.56	1	100	H

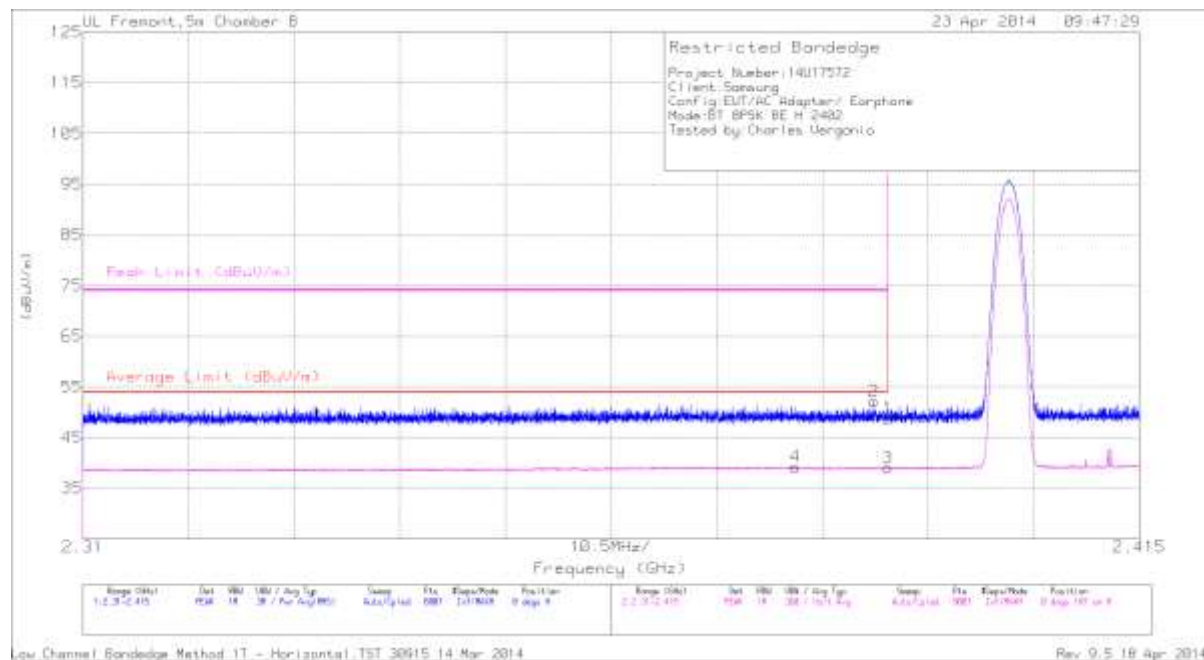
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK3 - FHSS Method: Maximum Peak

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

8.2.2. ENHANCED DATA RATE 8PSK MODULATION

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



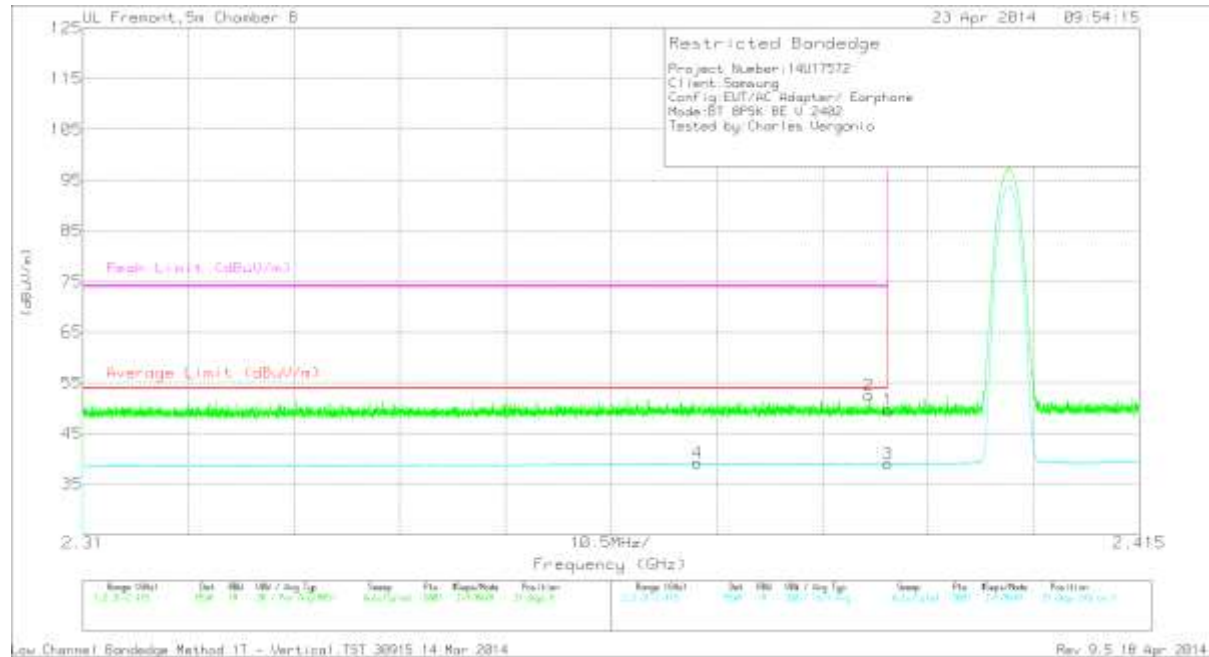
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.6	PK	32.1	-22.9	0	48.8	-	-	74	-25.2	0	107	H
2	* 2.389	42.91	PK	32.1	-22.9	0	52.11	-	-	74	-21.89	0	107	H
3	* 2.39	29.74	VB1T	32.1	-22.9	0	38.94	54	-15.06	-	-	0	107	H
4	* 2.381	30.08	VB1T	32	-22.9	0	39.18	54	-14.82	-	-	0	107	H

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

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



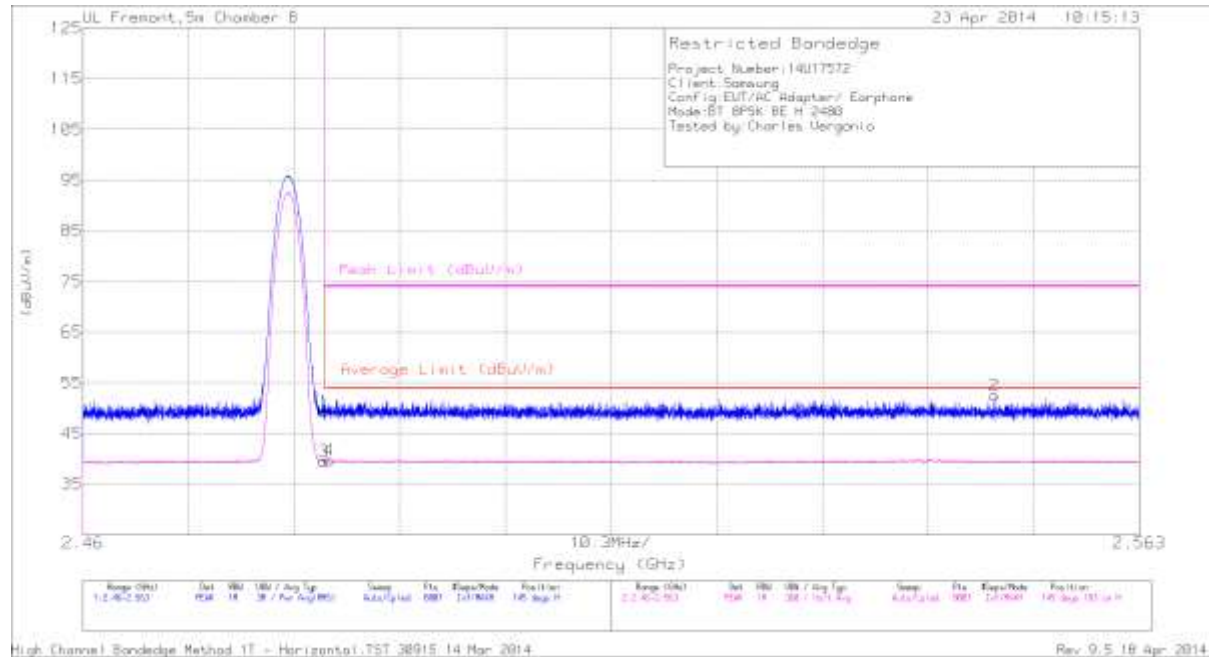
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.49	PK	32.1	-22.9	0	49.69	-	-	74	-24.31	37	246	V
2	* 2.388	43.37	PK	32.1	-22.9	0	52.57	-	-	74	-21.43	37	246	V
3	* 2.39	29.76	VB1T	32.1	-22.9	0	38.96	54	-15.04	-	-	37	246	V
4	* 2.371	30.02	VB1T	32	-22.8	0	39.22	54	-14.78	-	-	37	246	V

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

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

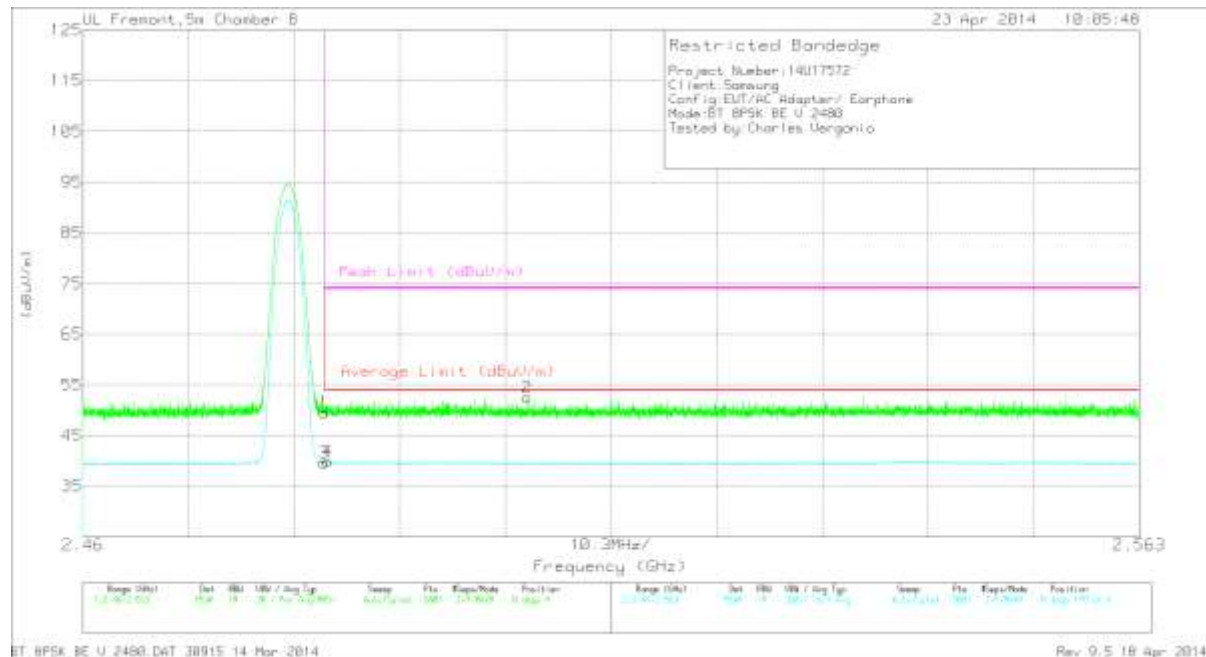


* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEGE (HIGH CHANNEL, VERTICAL)



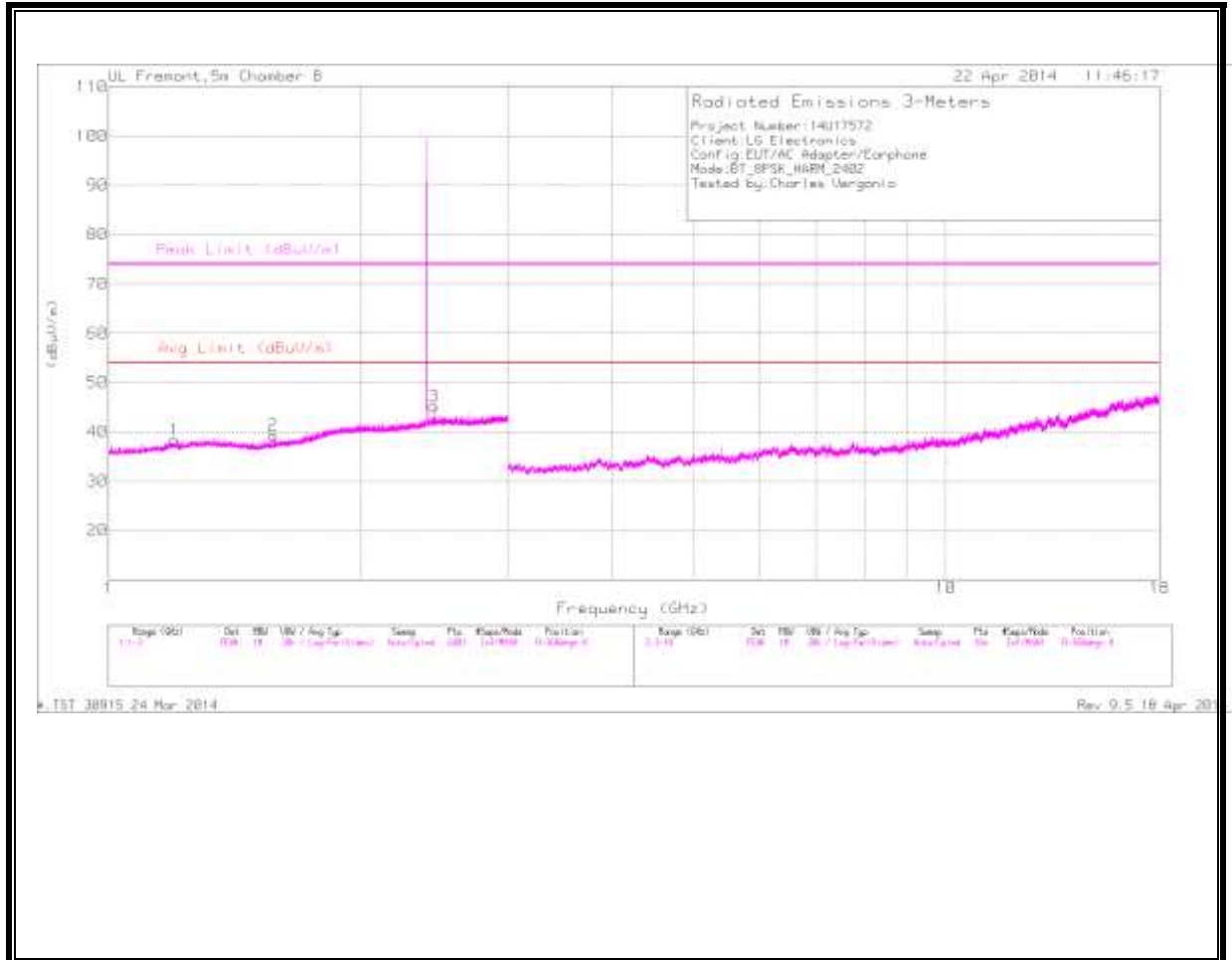
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/FI tri/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.77	PK	32.4	-22.6	0	49.57	-	-	74	-24.43	0	178	V
3	* 2.484	29.8	VB1T	32.4	-22.6	0	39.6	54	-14.4	-	-	0	178	V
4	* 2.484	30.01	VB1T	32.4	-22.6	0	39.81	54	-14.19	-	-	0	178	V
2	2.503	42.95	PK	32.4	-22.8	0	52.55	-	-	74	-21.45	0	178	V

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

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

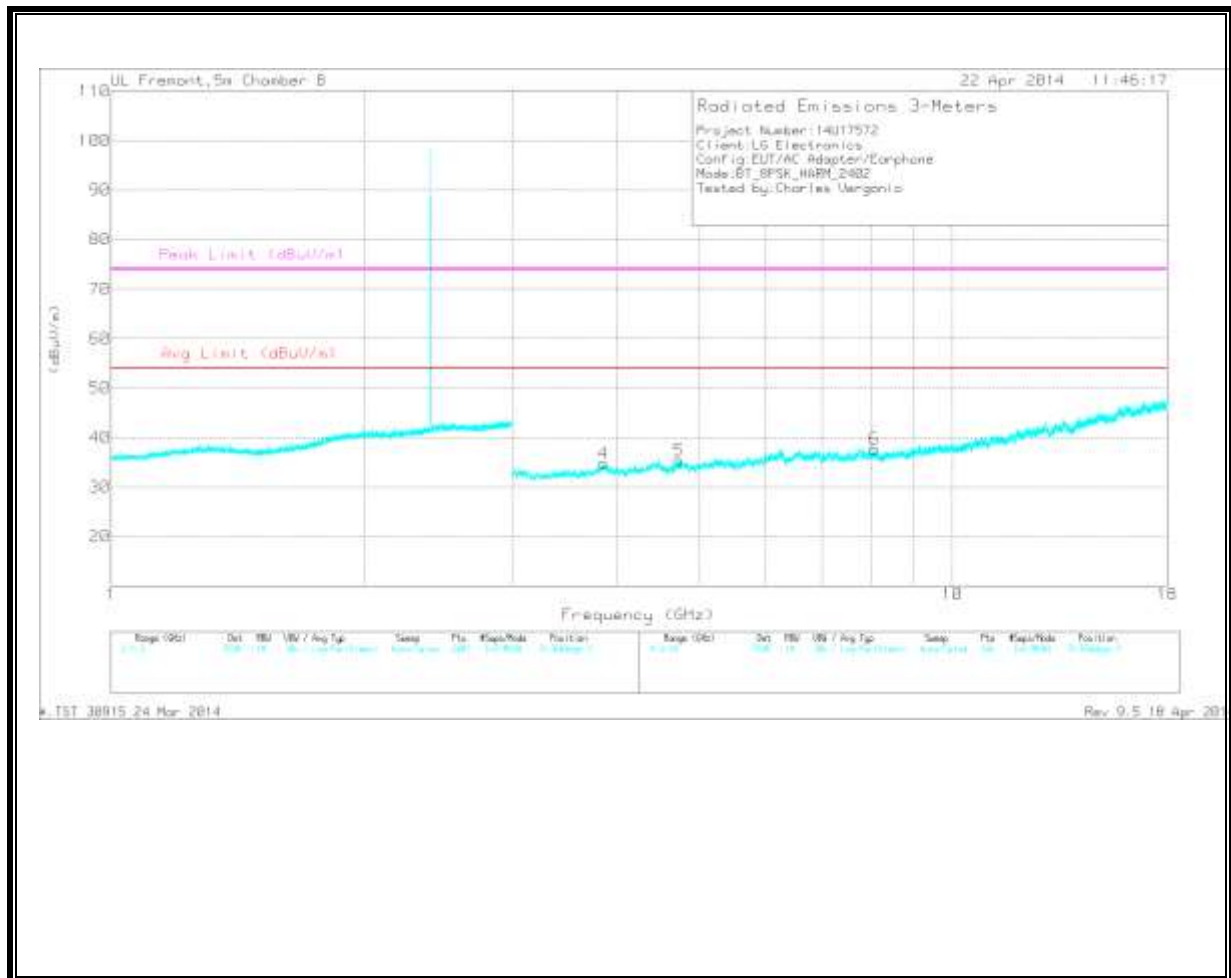
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

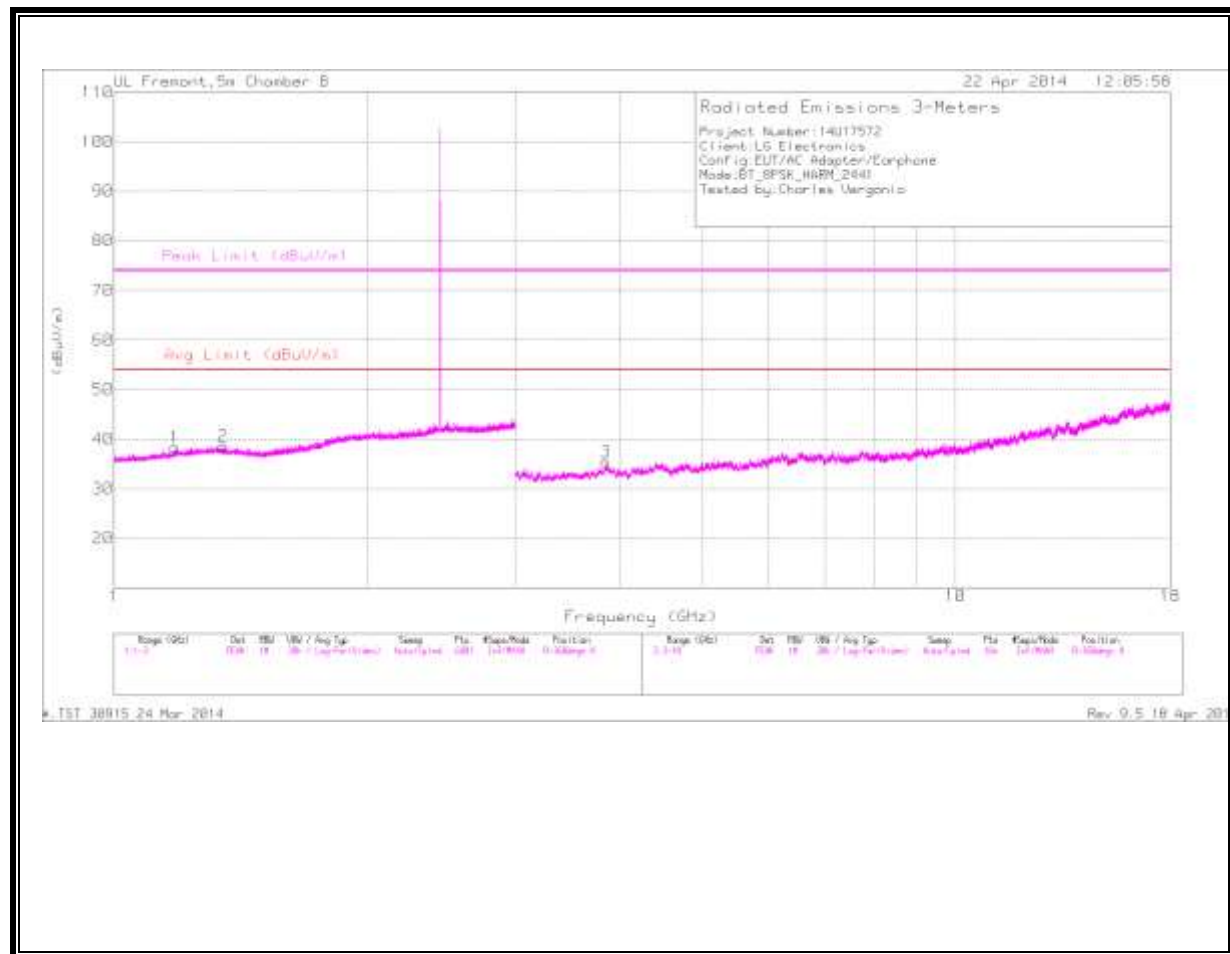
Frequency (GHz)	Meter Reading (dBuV)	Det	AFT345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.2	44.06	PK3	28.2	-24.7	47.56	54	-6.44	74	-26.44	1	100	H
* 1.576	43.29	PK3	28.4	-24.1	47.59	54	-6.41	74	-26.41	1	100	H
* 3.847	40.97	PK3	33.7	-30.2	44.47	54	-9.53	74	-29.53	1	100	V
* 4.733	39.62	PK3	34.2	-29.1	44.72	54	-9.28	74	-29.28	1	100	V
* 8.08	37.45	PK3	35.7	-25.9	47.25	54	-6.75	74	-26.75	1	100	V
2.448	43.32	PK3	32.3	-22.8	52.82	54	-1.18	74	-21.18	1	100	H
2.45	30.47	VB1T	32.3	-22.8	39.97	54	-14.03	74	-34.03	1	100	H

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

PK3 - FHSS Method: Maximum Peak

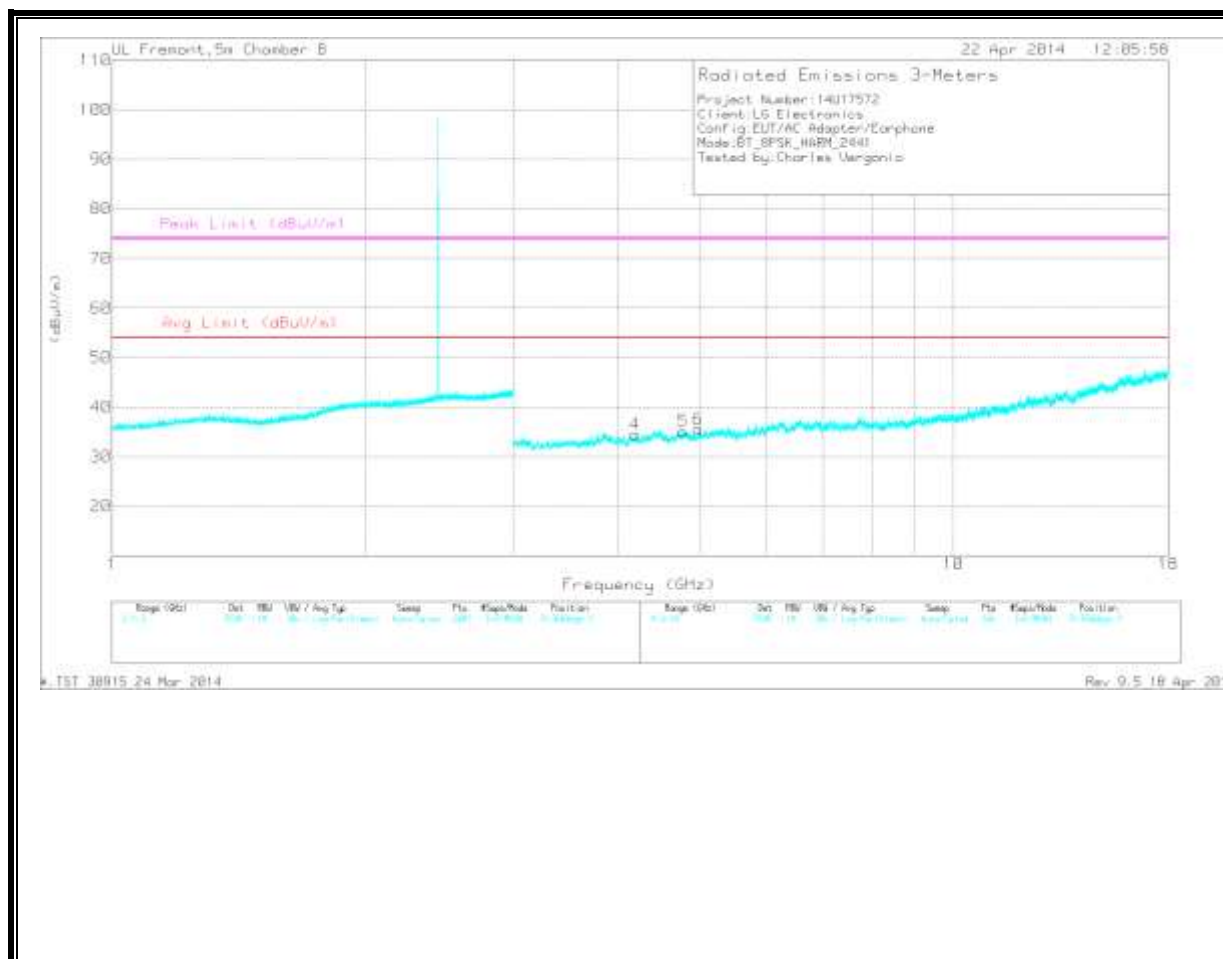
VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

MID CHANNEL
HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

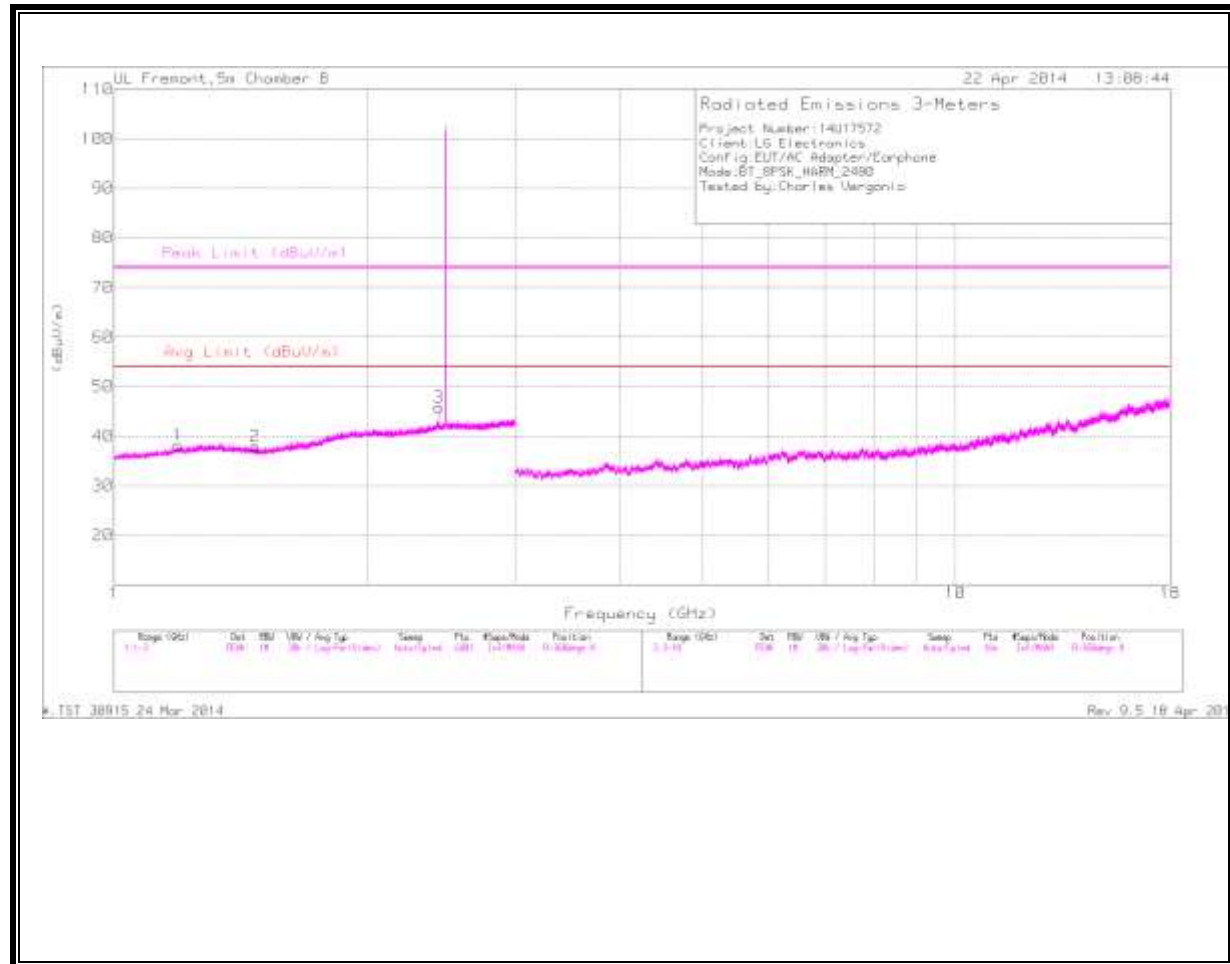
MID CHANNEL DATA

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.182	43.69	PK3	28	-24.7	46.99	54	-7.01	74	-27.01	1	100	H
* 1.349	43.66	PK3	28.7	-24.5	47.86	54	-6.14	74	-26.14	1	100	H
* 3.846	41.02	PK3	33.7	-30.2	44.52	54	-9.48	74	-29.48	1	100	H
* 4.188	40.3	PK3	33.6	-29.8	44.1	54	-9.9	74	-29.9	1	100	V
* 4.77	40.83	PK3	34.2	-29.4	45.63	54	-8.37	74	-28.37	1	100	V
* 4.974	40.17	PK3	34.2	-29.9	44.47	54	-9.53	74	-29.53	1	100	V

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

PK3 - FHSS Method: Maximum Peak

HIGH CHANNEL
HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.



HIGH CHANNEL DATA

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.192	44.03	PK3	28.1	-24.7	47.43	54	-6.57	74	-26.57	1	100	H
* 1.473	43.46	PK3	28.1	-24.3	47.26	54	-6.74	74	-26.74	1	100	H
* 3.83	40.71	PK3	33.7	-30.3	44.11	54	-9.89	74	-29.89	1	100	V
* 4.292	42.17	PK3	33.7	-31.1	44.77	54	-9.23	74	-29.23	1	100	V
* 8.085	37.09	PK3	35.7	-25.8	46.99	54	-7.01	74	-27.01	1	100	V
2.432	30.65	VB1T	32.2	-22.6	40.25	54	-13.75	74	-33.75	1	100	H
2.433	42.86	PK3	32.2	-22.6	52.46	54	-1.54	74	-21.54	1	100	H

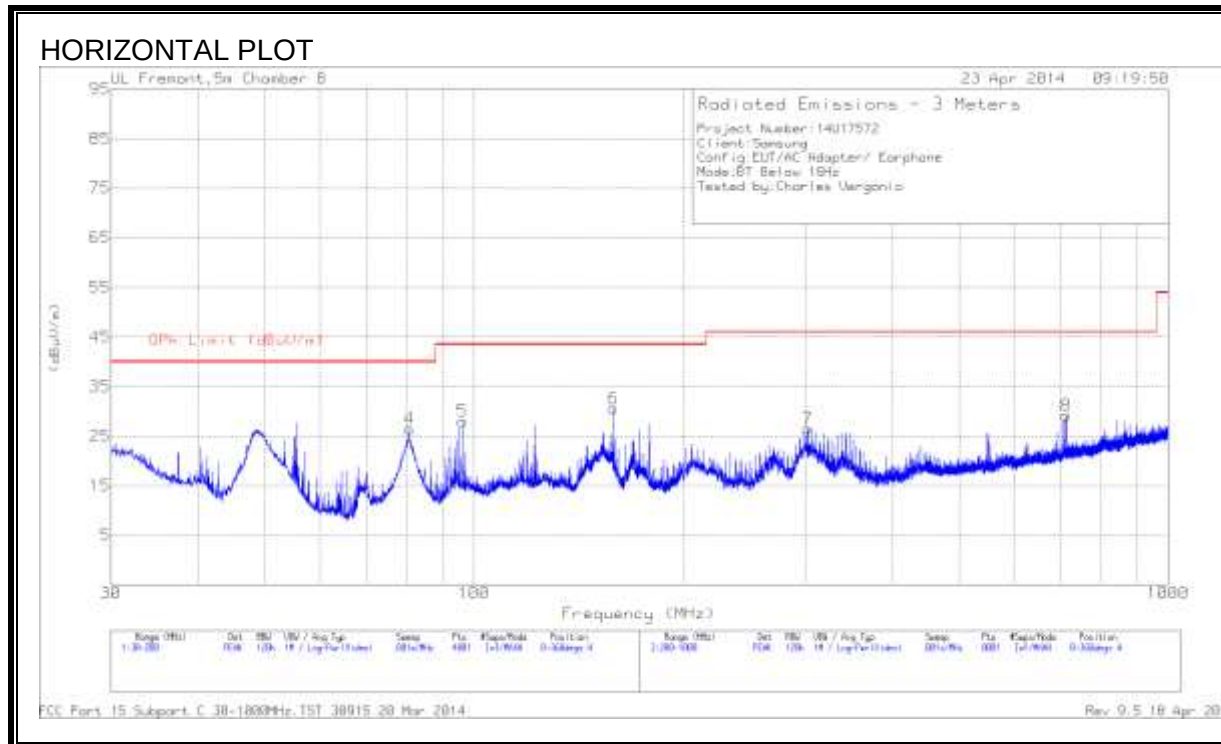
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

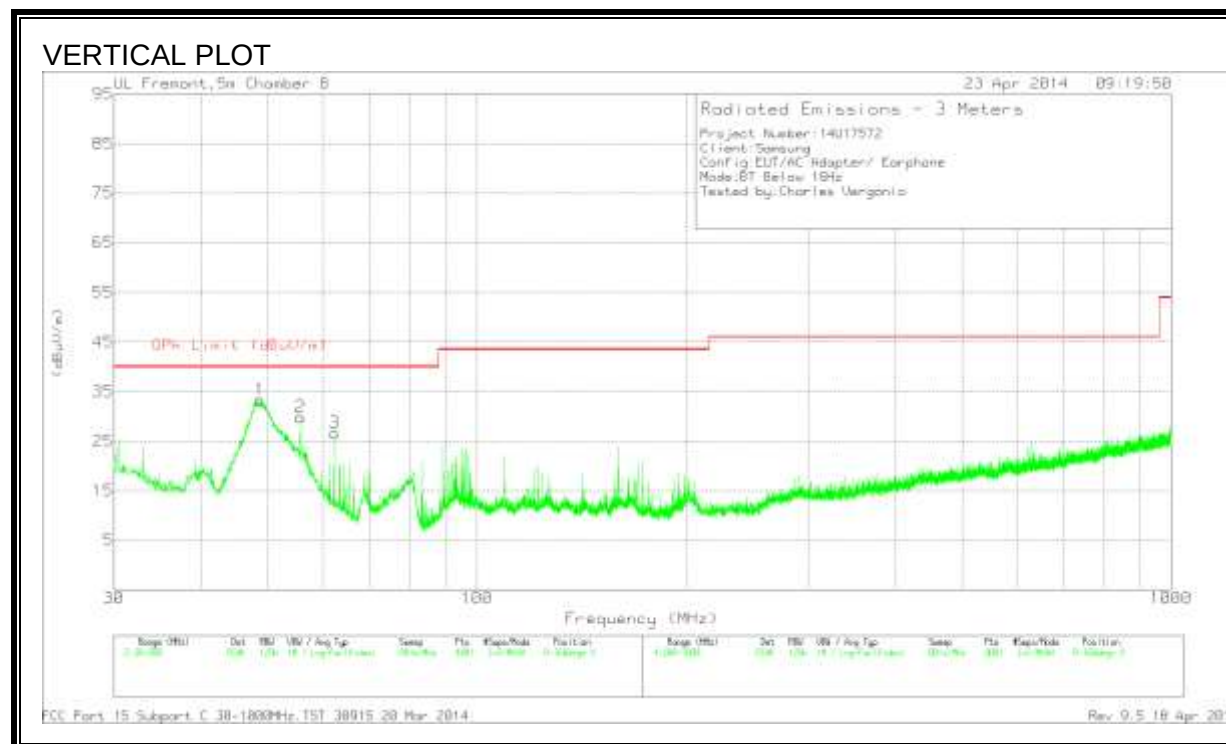
PK3 - FHSS Method: Maximum Peak

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

8.3. WORST-CASE BELOW 1 GHz

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





DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	48.6575	53.69	PK	8.3	-28.6	33.39	40	-6.61	0-360	101	V
2	55.67	51.45	PK	7	-28.6	29.85	40	-10.15	0-360	101	V
3	62.3425	47.68	PK	7.5	-28.5	26.68	40	-13.32	0-360	101	V
4	80.745	47.19	PK	7.6	-28.3	26.49	40	-13.51	0-360	200	H
5	96.215	46.86	PK	9.2	-28.1	27.96	43.52	-15.56	0-360	200	H
6	158.7325	45.78	PK	12.2	-27.4	30.58	43.52	-12.94	0-360	300	H
7	302.8	39.15	PK	13.3	-26	26.45	46.02	-19.57	0-360	101	H
8	712.9	33.58	PK	20.2	-24.6	29.18	46.02	-16.84	0-360	400	H

PK - Peak detector