



**FCC CFR47 PART 15 SUBPART C
C2PC CERTIFICATION TEST REPORT
FOR**

Tablet with Bluetooth, DTS/UNII a/b/g/n/ac & ANT+

MODEL NUMBER: SM-T800

FCC ID: A3LSMT800

REPORT NUMBER: 14U17528-3

ISSUE DATE: April 21, 2014

Prepared for

**SAMSUNG ELECTRONICS CO., LTD.
416, MAETAN 3-DONG, YEONGTONG-GU
SUWON-CITY, GYEONGGI-DO 443-742, SOUTH KOREA**

Prepared by

**UL VERIFICATION SERVICES INC.
47173 BENICIA STREET
FREMONT, CA 94538, U.S.A.
TEL: (510) 771-1000
FAX: (510) 661-0888**



NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
--	4/21/14	Initial Issue	P. Kim

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS.....	4
2. TEST METHODOLOGY	5
3. FACILITIES AND ACCREDITATION.....	5
4. CALIBRATION AND UNCERTAINTY	5
4.1. MEASURING INSTRUMENT CALIBRATION	5
4.2. SAMPLE CALCULATION.....	5
4.3. MEASUREMENT UNCERTAINTY	5
5. EQUIPMENT UNDER TEST	6
5.1. DESCRIPTION OF EUT.....	6
5.2. MAXIMUM OUTPUT POWER.....	6
5.3. DESCRIPTION OF AVAILABLE ANTENNAS	9
5.4. List of test reduction and modes covering other modes:	9
5.5. WORST-CASE CONFIGURATION AND MODE.....	9
5.6. DESCRIPTION OF TEST SETUP.....	10
6. TEST AND MEASUREMENT EQUIPMENT	12
7. MEASUREMENT METHODS.....	13
8. ON TIME, DUTY CYCLE AND MEASUREMENT METHODS.....	13
8.1. ON TIME AND DUTY CYCLE RESULTS (From original)	13
9. SUMMARY TABLE	21
10. RADIATED TEST RESULTS.....	22
10.1. LIMITS AND PROCEDURE.....	22
10.2. TRANSMITTER ABOVE 1 GHz.....	23
10.2.1. TX ABOVE 1 GHz 802.11b CDD MODE IN THE 2.4 GHz BAND	23
10.2.2. TX ABOVE 1 GHz 802.11g CDD MODE IN THE 2.4 GHz BAND	36
10.2.3. TX ABOVE 1 GHz 802.11n HT20 CDD MODE IN THE 2.4 GHz BAND	49
10.2.4. TX ABOVE 1 GHz 802.11a HT20 CDD MODE IN THE 5.8 GHz BAND	62
10.2.5. TX ABOVE 1 GHz 802.11n HT20 CDD MODE IN THE 5.8 GHz BAND	71
10.2.6. TX ABOVE 1 GHz 802.11n HT40 CDD MODE IN THE 5.8 GHz BAND	80
10.2.7. TX ABOVE 1 GHz 802.11ac HT80 CDD MODE IN THE 5.8 GHz BAND.....	86
10.3. WORST-CASE BELOW 1 GHz	89
11. SETUP PHOTOS	92

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.
EUT DESCRIPTION: Tablet with Bluetooth, DTS/UNII a/b/g/n/ac & ANT+
MODEL: SM-T800
SERIAL NUMBER: R32F202ZF8E
DATE TESTED: April 8 - 21, 2014

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

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

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

Approved & Released
For UL Verification Services Inc. By:

Tested By:



PHILIP KIM
CONSUMER TECHNOLOGY DIVISION
PROGRAM MANAGER
UL Verification Services Inc.

CHARLES VERGONIO
CONSUMER TECHNOLOGY DIVISION
LAB ENGINEER
UL Verification Services Inc.

2. TEST METHODOLOGY

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

3. FACILITIES AND ACCREDITATION

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

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

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

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

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

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

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	3.52 dB
Radiated Disturbance, 30 to 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 Tablet + Bluetooth, DTS/UNII a/b/g/n/ac & ANT+.

5.2. MAXIMUM OUTPUT POWER

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

Frequency Range (MHz)	Mode	Total Output Power (dBm)	Total Output Power (mW)
2412 - 2462	802.11b	19.3	85.11
2412 - 2462	802.11g	22.59	181.55
2412 - 2462	802.11n HT20	22.1	162.18
5745-5825	802.11a	21.77	150.31
5745-5825	802.11n HT20	21.85	153.11
5755-5795	802.11n HT40	22.3	169.82
5755-5795	802.11ac HT80	22.34	171.40

The transmitter has average conducted output power as follows:

Band (GHz)	No. of Transmitters	Mode	Mode	Ch #	Freq. (MHz)	Avg Pwr (dBm)	
						Wi-Fi 1	Wi-Fi 2
2.4	1 Tx	802.11b	1 Mbps	1	2412	13.8	
				6	2437	14.0	
				11	2462	13.7	
				1	2412		13.9
				6	2437		14.0
				11	2462		13.8
				1	2412	14.0	14.0
				6	2437	14.0	14.0
				11	2462	13.8	13.9
	2 Tx	802.11g	6 Mbps	1	2412	12.2	
				6	2437	12.3	
				11	2462	12.0	
	1 Tx	802.11g	6 Mbps	1	2412		12.1
				6	2437		12.1
				11	2462		11.9
				1	2412	12.2	12.0
				6	2437	12.3	12.1
				11	2462	12.0	11.9
				1	2412	11.3	
				6	2437	11.3	
				11	2462	11.1	
	2 Tx	802.11n (HT20)	MCS0	1	2412		11.1
				6	2437		11.1
				11	2462		11.1
1 Tx	802.11n (HT20)	MCS0	1	2412	11.3		
			6	2437	11.3		
			11	2462	11.1		
			1	2412		11.1	
			6	2437		11.1	
			11	2462		11.1	
2 Tx	802.11n (HT20)	MCS0	1	2412	11.3	11.2	
			6	2437	11.3	11.2	
			11	2462	11.1	11.1	

Band (GHz)	Mode	Mode	Mode	Ch #	Freq. (MHz)	Avg Pwr (dBm)		
						Wi-Fi 1	Wi-Fi 2	
5.8 (DTS)	1 Tx	802.11a	6 Mbps	149	5745	9.8		
				157	5785	9.7		
				165	5825	9.6		
				149	5745		10.0	
				157	5785		9.8	
				165	5825		9.8	
				2 Tx	149	5745	9.8	10.0
					157	5785	9.7	9.9
					165	5825	9.6	9.8
	1 Tx	802.11n (HT20)	MCS0	149	5745	9.5		
				157	5785	9.4		
				165	5825	9.3		
				149	5745		9.9	
				157	5785		9.8	
				165	5825		9.7	
				2 Tx	149	5745	9.5	9.9
					157	5785	9.4	9.8
					165	5825	9.3	9.7
	1 Tx	802.11n (HT40)	MCS0	151	5755	9.9		
				159	5795	9.8		
				151	5755		9.9	
				159	5795		9.8	
				2 Tx	151	5755	9.9	9.8
					159	5795	9.8	9.8
	1 Tx	802.11ac (20 MHz)	MCS0	149	5745	9.6		
				157	5785	9.6		
				165	5825	9.7		
				149	5745		9.9	
				157	5785		9.9	
				165	5825		9.8	
				2 Tx	149	5745	9.7	10.0
					157	5785	9.6	10.0
					165	5825	9.7	9.8
	1 Tx	802.11ac (40 MHz)	MCS0	151	5755	9.8		
				159	5795	9.8		
				151	5755		9.9	
				159	5795		9.9	
				2 Tx	151	5755	9.8	9.9
					159	5795	9.8	9.9
	1 Tx	802.11ac (80 MHz)	MCS0	155	5775	9.3		
				155	5775		9.5	
				2 Tx	155	5775	9.4	9.5

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes two FPCB antennas, with a maximum gain of -4.24dBi and 0.19 dBi for 2.4GHz ; -2.01 dBi and 1.35 dBi for 5.8GHz.

5.4. List of test reduction and modes covering other modes:

2400 - 2483.5 MHz Authorized Frequency Band (Antenna Port & Radiated Testing)		
Frequency Range (MHz)	Mode	Covered by
2412 - 2462	802.11b Legacy 1TX	802.11b CDD 2TX
2412 - 2462	802.11g Legacy 1TX	802.11g CDD 2TX
2412 - 2462	802.11n 1TX	802.11n HT20 CDD 2TX
2412 - 2462	802.11n STBC 2TX	802.11n HT20 CDD 2TX
2412 - 2462	802.11n HT40 1TX	802.11n HT40 CDD 2TX
2412 - 2462	802.11n HT40 STBC 2TX	802.11n HT40 CDD 2TX

5725 - 5850 MHz Authorized Frequency Band (Antenna Port & Radiated Testing)		
Frequency Range (MHz)	Mode	Covered by
5745 - 5825	802.11a Legacy 1TX	802.11a CDD 2TX
5745 - 5825	802.11n/ac HT20 1TX	802.11n HT20 CDD 2TX
5745 - 5825	802.11n/ac HT20 STBC 2TX	802.11n HT20 CDD 2TX
5755 - 5795	802.11n/ac HT40 1TX	802.11n HT40 CDD 2TX
5755 - 5795	802.11n/ac HT40 STBC 2TX	802.11n HT40 CDD 2TX
5775	802.11ac VHT80 1TX	802.11ac VHT80 CDD 2TX
5775	802.11ac VHT80 STBC 2TX	802.11ac VHT80 CDD 2TX

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.

Based on the baseline scan, the worst-case data rates were:

802.11b mode: 1 Mbps
802.11g mode: 6 Mbps
802.11a mode: 6 Mbps
802.11n HT20mode: MCS0
802.11n HT40mode: MCS0
802.11ac VHT80mode: MCS0

5.6. 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

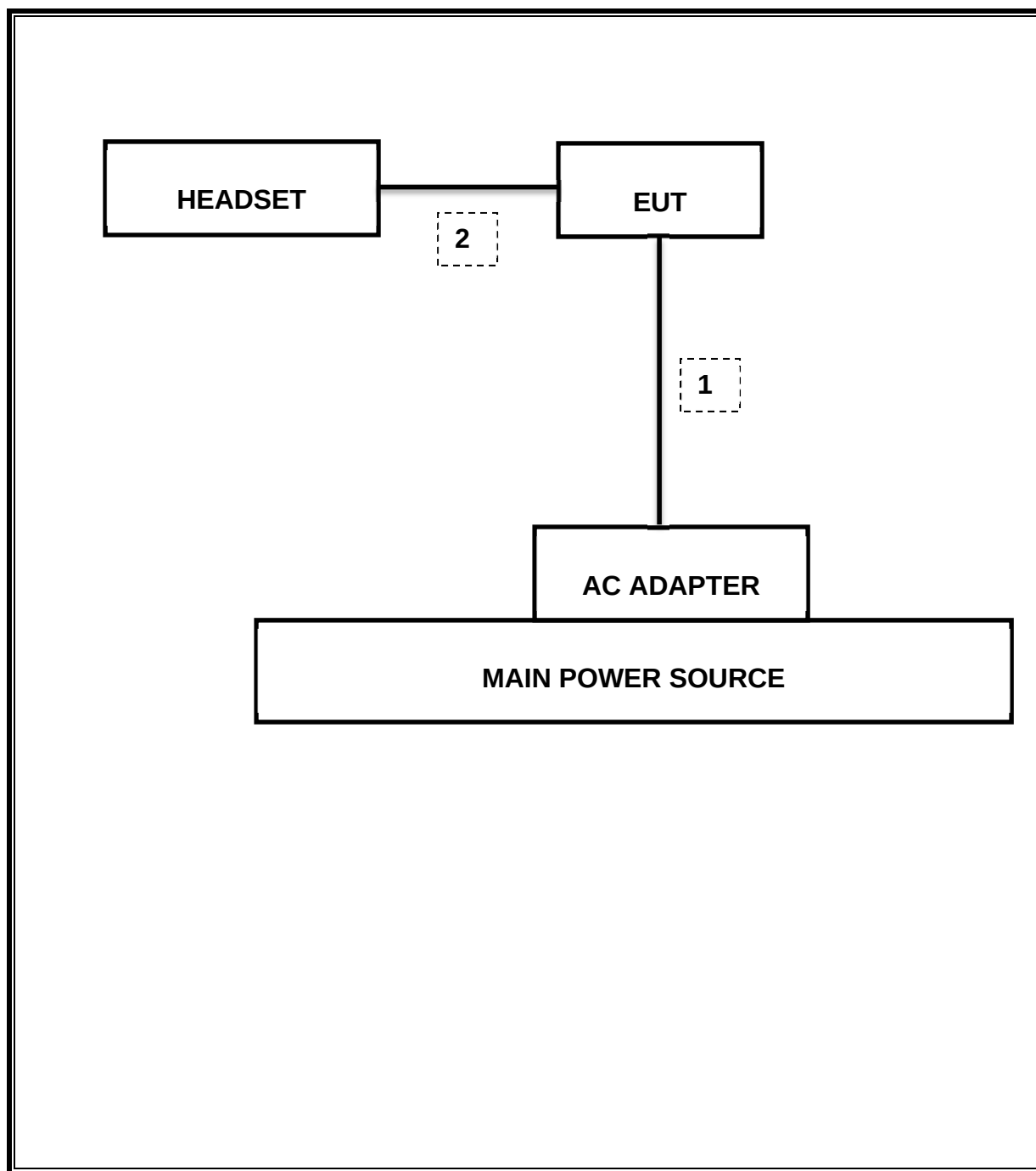
I/O CABLES

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 a stand-alone unit during the tests. Test software exercised the radio card.

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
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01069	12/20/14
Spectrum Analyzer, 9KHz-40GHz	HP	8564E	C00986	04/01/15
EMI Test Receiver, 9 kHz-7 GHz	R & S	ESCI 7	1000741	08/13/14
EMI Test Receiver, 30 MHz	R & S	ESHS 20	N02396	08/18/14
Peak Power Meter	Agilent / HP	E4416A	C00963	12/13/14
Peak / Average Power Sensor	Agilent / HP	E9327A	C00964	12/13/14
Antenna, Horn, 1-18 GHz	ETS	3117	C01022	02/21/15
Antenna, Horn, 18- 26 GHz	ARA	MWH-1826/B	C00946	11/12/14
Antenna, Horn, 26-40 GHz	ARA	MWH-2640	C00891	06/28/14
Antenna, Bilog, 30MHz-1 GHz	Sunol Sciences	JB1	T243	03/06/15
RF Preamplifier, 100KHz -> 1300MHz	HP	TBD	C00825	06/01/14
RF Preamplifier, 1GHz - 18GHz	Miteq	NSP4000-SP2	924343	03/23/15
RF Preamplifier, 1GHz - 26.5GHz	HP	8449B	F00351	06/27/14
AC Power Supply, 2,500VA 45-500Hz	Elgar-Ametek	CW2501M	F00013	CNR
RF Preamplifier, 1GHz - 40GHz	Miteq	NSP4000-SP2	C00990	08/20/14
Attenuator / Switch driver	HP	11713A	F00204	CNR
Low Pass Filter 3GHz	Micro-Tronics	LPS17541	F00219	05/23/14
High Pass Filter 5GHz	Micro-Tronics	HPS17542	F00222	05/22/14
High Pass Filter 6GHz	Micro-Tronics	HPM17543	F00224	05/22/14

7. MEASUREMENT METHODS

KDB 558074 D01 DTS Meas Guidance v03r01:Measurement Procedure PK2 is used for power and PKPSD is used for power spectral density.

Unwanted emissions within Restricted Bands are measured using traditional radiated procedures.

Band edge emissions within Restricted Bands are measured using RMS with duty cycle factor offset method.

8. ON TIME, DUTY CYCLE AND MEASUREMENT METHODS

LIMITS

None; for reporting purposes only.

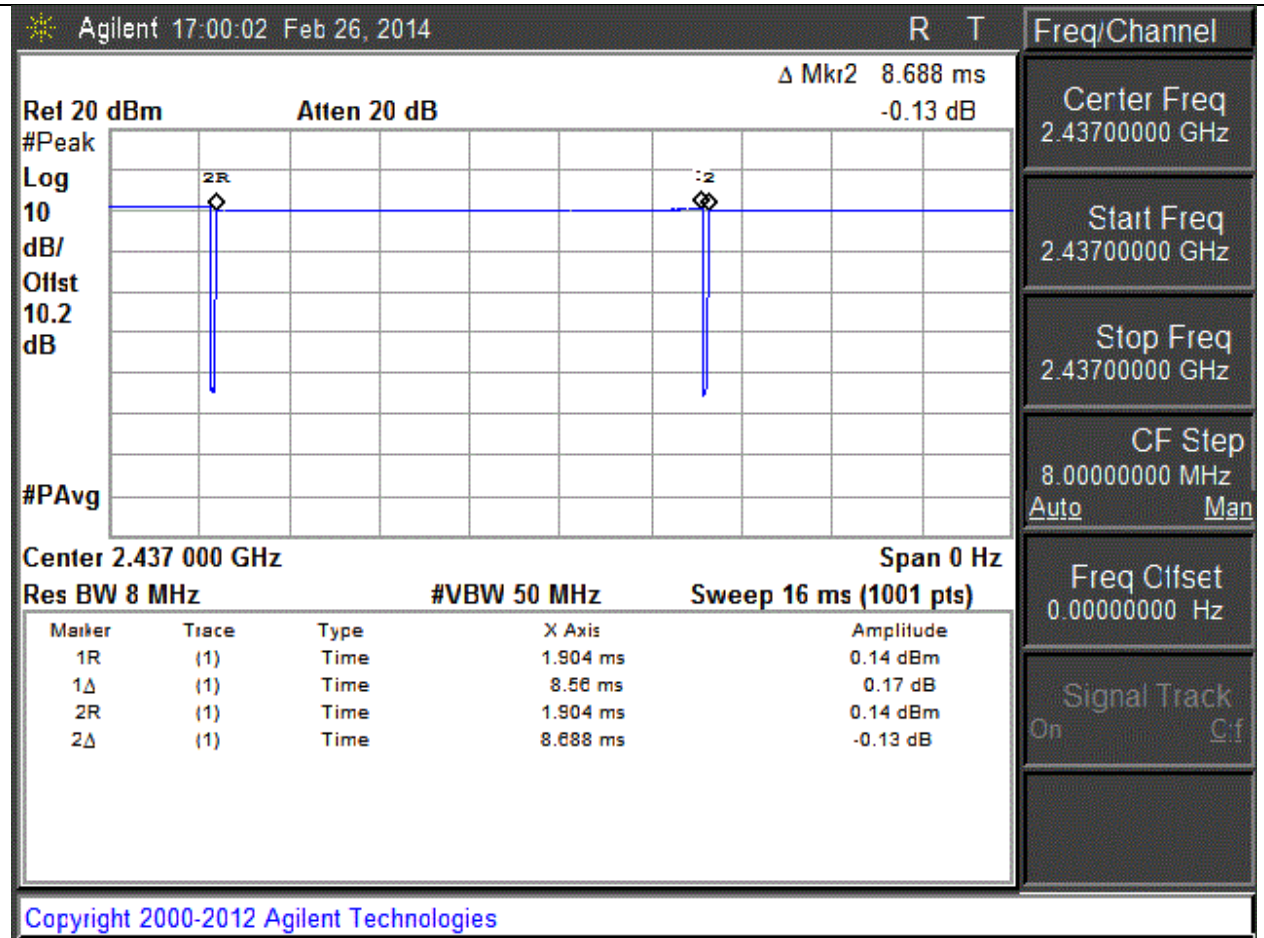
PROCEDURE

KDB 789033 Zero-Span Spectrum Analyzer Method.

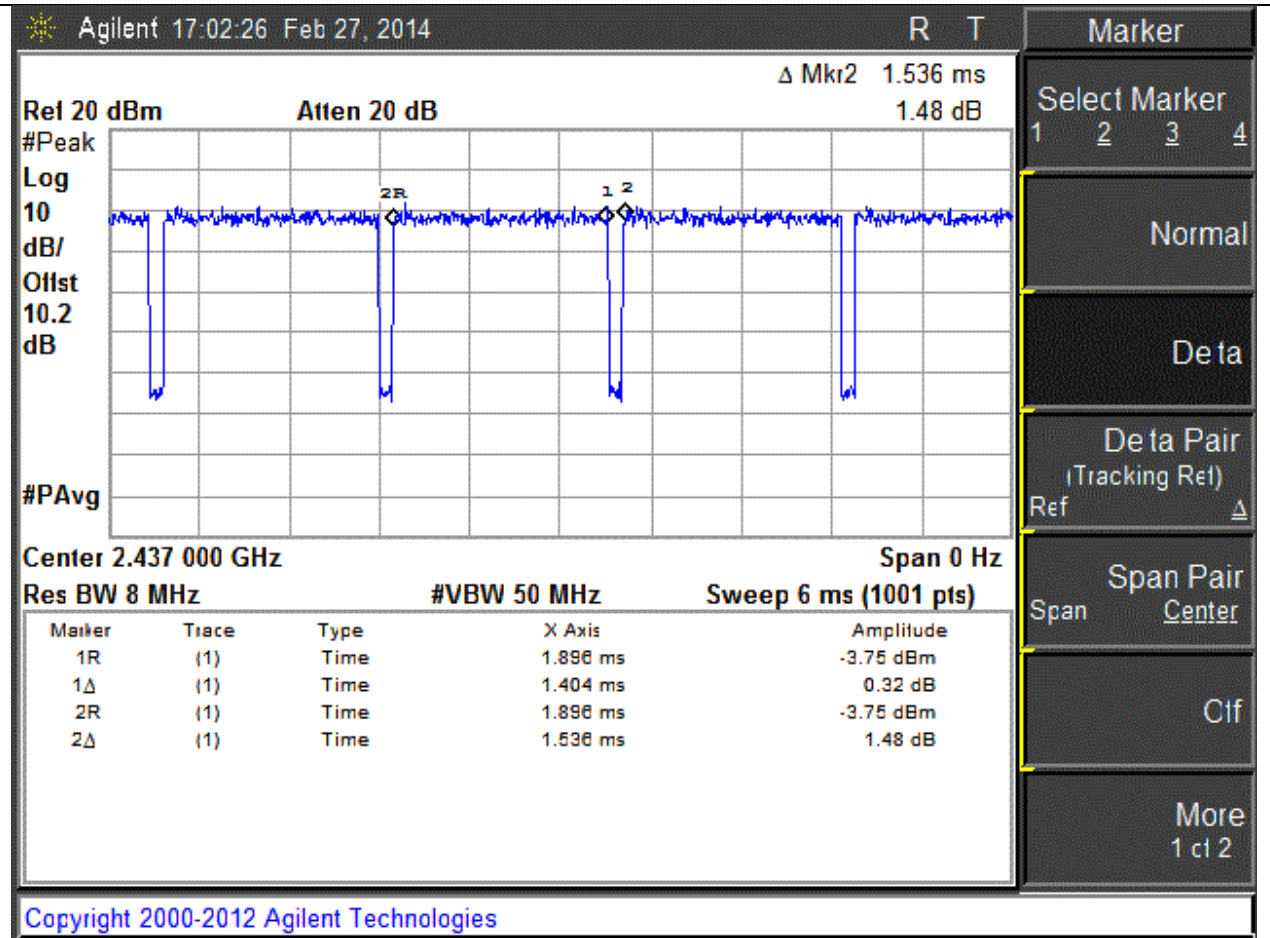
8.1. ON TIME AND DUTY CYCLE RESULTS (From original)

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
2.4GHz Band						
802.11b CDD	8.560	8.688	0.985	98.53%	0.06	0.010
802.11g CDD	1.404	1.536	0.914	91.41%	0.39	0.010
802.11n HT20 CDD	0.693	0.792	0.875	87.50%	0.58	0.010
5GHz Band						
802.11a CDD	1.425	1.527	0.933	93.32%	0.30	0.010
802.11n HT20 CDD	0.692	0.794	0.872	87.15%	0.60	0.010
802.11n HT40 CDD	0.3590	0.4590	0.782	78.21%	1.07	2.179
802.11ac VHT80 CDD	0.1910	0.2920	0.654	65.41%	1.84	3.425

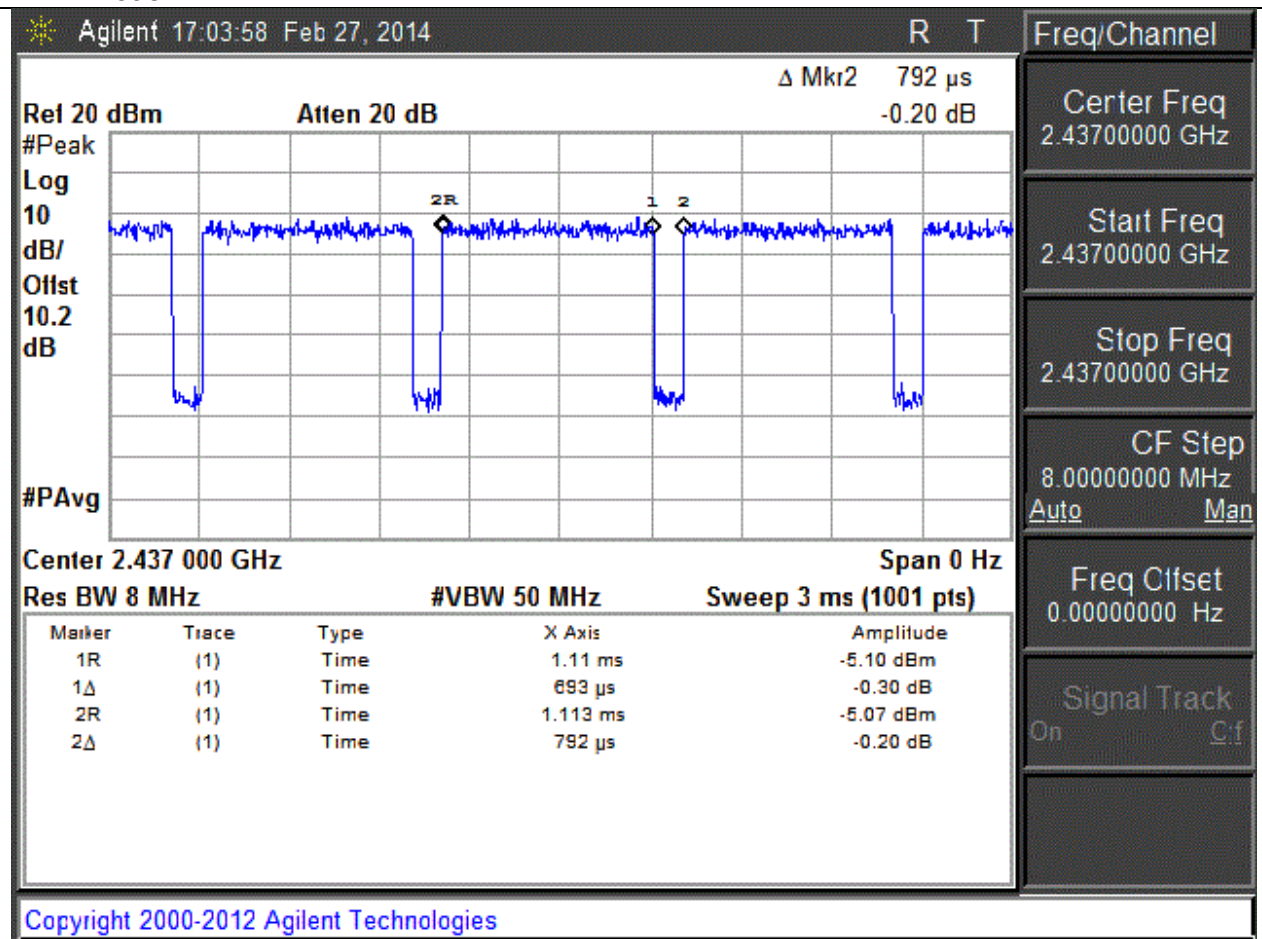
2.4 B mode

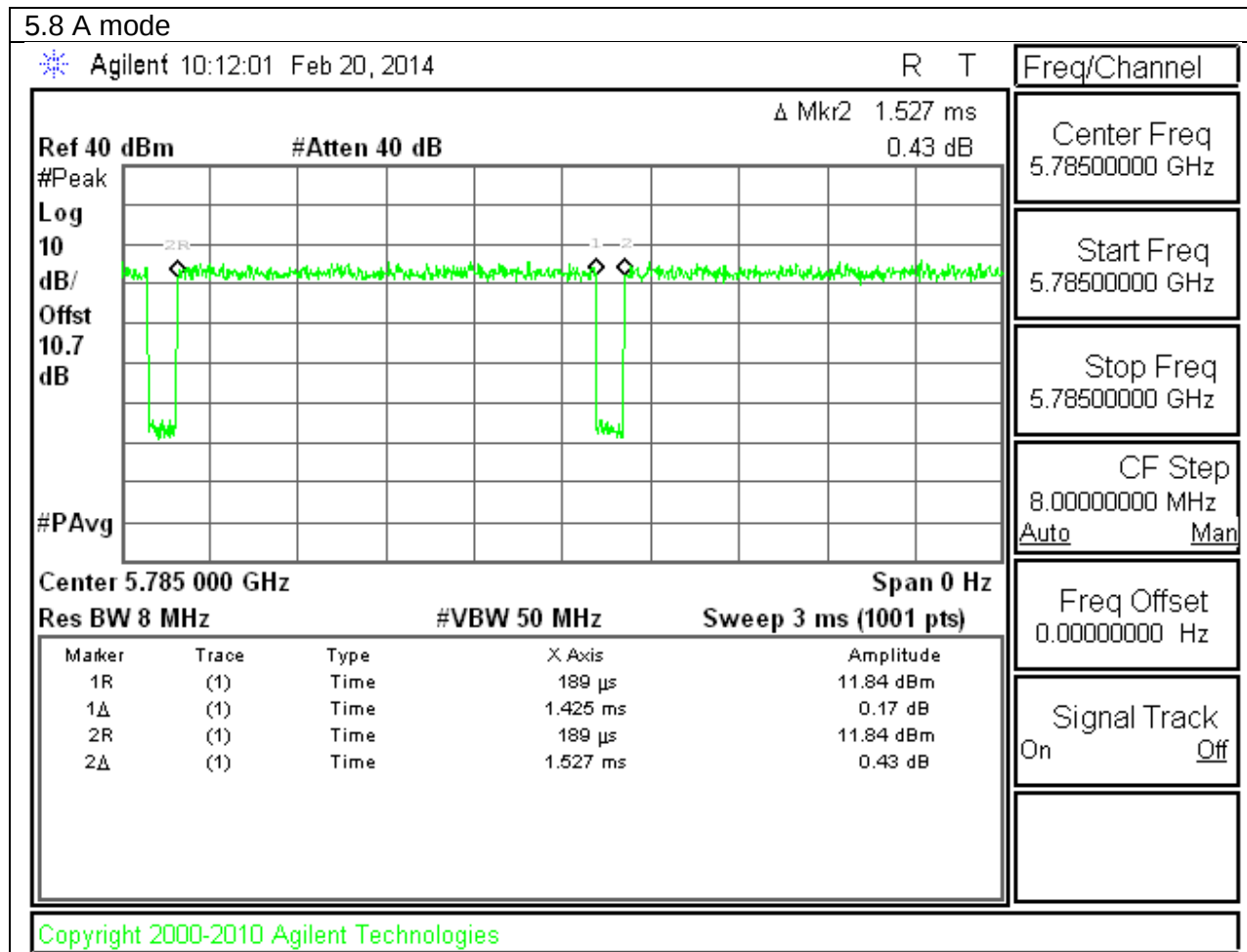


2.4 G mode



2.4 N mode





5.8 N HT20 mode

Agilent 10:15:13 Feb 20, 2014

R T

Freq/Channel

Ref 40 dBm

#Atten 40 dB

Δ Mkr2 794 μs
-0.69 dB

Center Freq
5.78500000 GHz

#Peak

Log

10

dB/

Offst

10.7

dB

Start Freq
5.78500000 GHz

Stop Freq
5.78500000 GHz

CF Step
8.00000000 MHz
Auto Man

#PAvg

Center 5.785 000 GHz

Span 0 Hz

Res BW 8 MHz

#VBW 50 MHz

Sweep 2 ms (1001 pts)

Freq Offset
0.00000000 Hz

Marker	Trace	Type	X Axis	Amplitude
1R	(1)	Time	702 μs	12.86 dBm
1Δ	(1)	Time	692 μs	-1.41 dB
2R	(1)	Time	702 μs	12.86 dBm
2Δ	(1)	Time	794 μs	-0.69 dB

Signal Track
On Off

Copyright 2000-2010 Agilent Technologies

5.8 N HT40mode

Agilent 10:29:04 Feb 20, 2014

R T

Freq/Channel

Ref 40 dBm

#Atten 40 dB

Δ Mkr2 459 μ s
-3.02 dB

#Peak

Log

10

dB/

Offst

10.7

dB

#PAvg

Center 5.795 000 GHz

Span 0 Hz

Res BW 8 MHz

#VBW 50 MHz

Sweep 1 ms (1001 pts)

Marker	Trace	Type	X Axis	Amplitude
1R	(1)	Time	282 μ s	4.76 dBm
1 Δ	(1)	Time	359 μ s	4.08 dB
2R	(1)	Time	282 μ s	4.76 dBm
2 Δ	(1)	Time	459 μ s	-3.02 dB

Center Freq
5.79500000 GHz

Start Freq
5.79500000 GHz

Stop Freq
5.79500000 GHz

CF Step
8.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Copyright 2000-2010 Agilent Technologies

5.8 AC VHT80 mode

Agilent 10:37:09 Feb 20, 2014

R T

Freq/Channel

Ref 40 dBm

#Atten 40 dB

Δ Mkr2 292 μs
-0.46 dB

Center Freq
5.77500000 GHz

#Peak

Log

10

dB/

Offst

10.7

dB

Start Freq
5.77500000 GHz

Stop Freq
5.77500000 GHz

CF Step
8.00000000 MHz
Auto Man

#PAvg

Center 5.775 000 GHz

Span 0 Hz

Res BW 8 MHz

#VBW 50 MHz

Sweep 1 ms (1001 pts)

Freq Offset
0.00000000 Hz

Marker	Trace	Type	X Axis	Amplitude
1R	(1)	Time	517 μs	1.04 dBm
1Δ	(1)	Time	191 μs	3.47 dB
2R	(1)	Time	517 μs	1.04 dBm
2Δ	(1)	Time	292 μs	-0.46 dB

Signal Track
On Off

Copyright 2000-2010 Agilent Technologies

9. SUMMARY TABLE

FCC Part Section	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Worst Case
15.247 (a)(2)	RSS-210 A8.2(a)	Occupied Band width (6dB)	>500KHz	Conducted	Pass	see original
2.1051, 15.247 (d)	RSS-210 A8.5	Band Edge / Conducted Spurious Emission	-20dBc		Pass	see original
15.247	RSS-210 A8.4	TX conducted output power	<30dBm		Pass	see original
15.247	RSS-210 A8.2	PSD	<8dBm		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	53dBuV/m

10. RADIATED TEST RESULTS

10.1. 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.

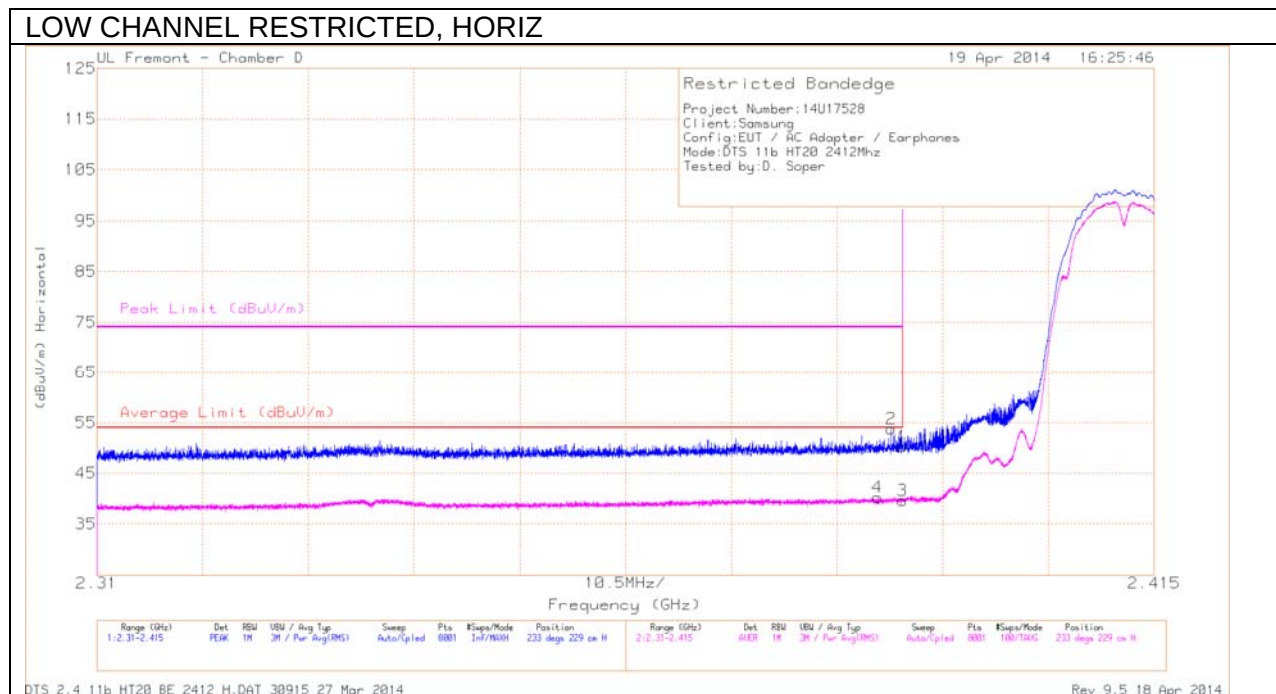
For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and add duty cycle factor for average measurements. Duty cycle factor= $10\log(1/x)$

The spectrum from 1GHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

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

10.2. TRANSMITTER ABOVE 1 GHz

10.2.1. TX ABOVE 1 GHz 802.11b CDD MODE IN THE 2.4 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)



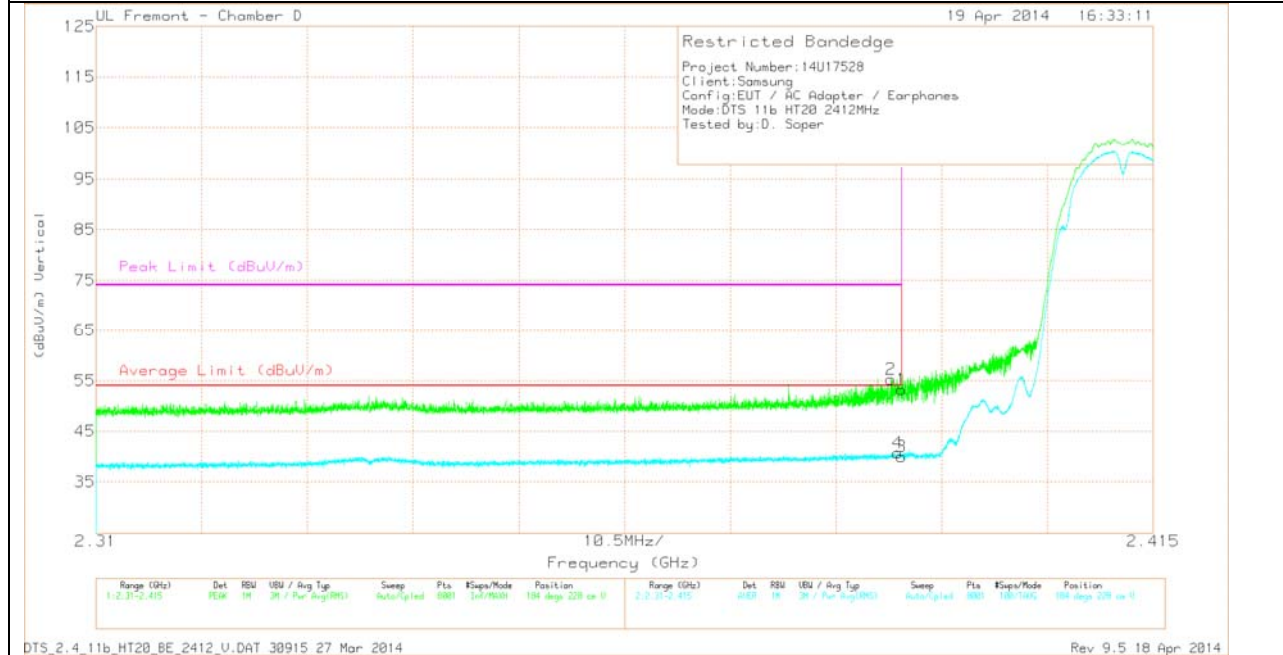
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	39.41	PK	31.5	-20.6	50.31	-	-	74	-23.69	233	229	H
2	* 2.389	42.9	PK	31.5	-20.6	53.8	-	-	74	-20.2	233	229	H
3	* 2.39	28.69	RMS	31.5	-20.6	39.59	54	-14.41	-	-	233	229	H
4	* 2.388	29.32	RMS	31.5	-20.6	40.22	54	-13.78	-	-	233	229	H

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

PK - Peak detector

RMS - RMS detection

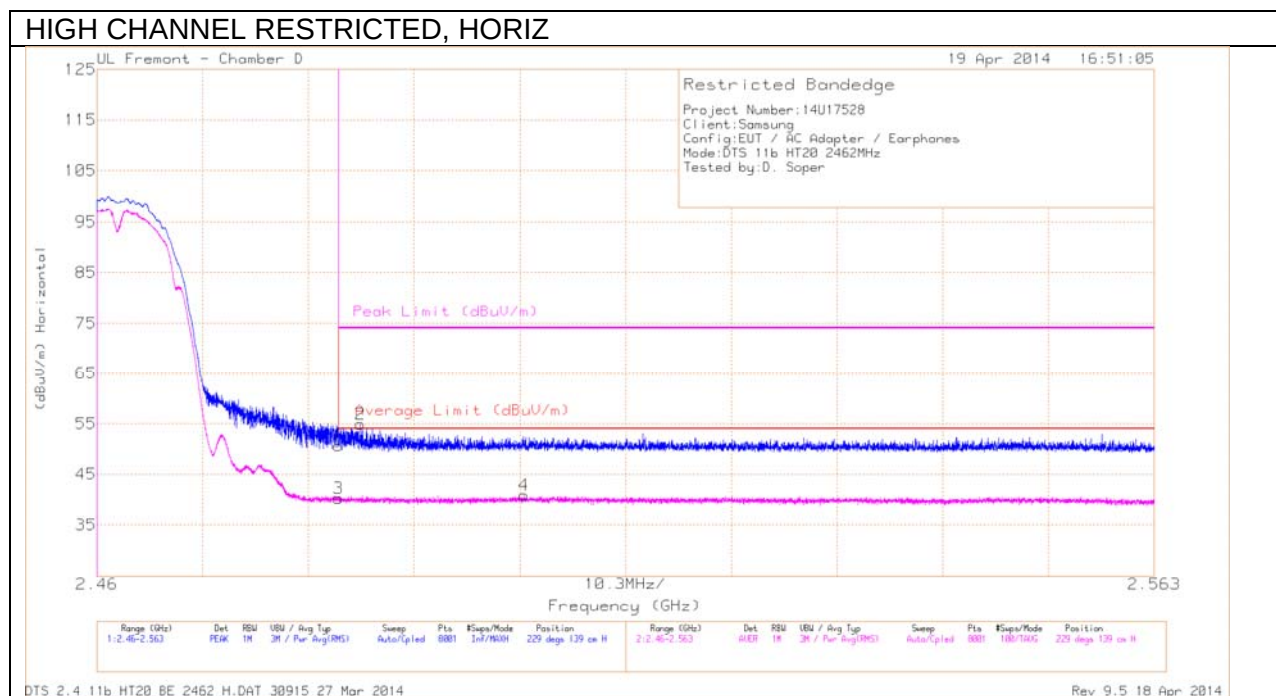
LOW CHANNEL RESTRICTED, VERT



Marker	Frequency (GHz)	Meter Reading (dB uV)	Det	AF T712 (dB/m)	Amp/Cb/Fltr/Pad (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	42.4	PK	31.5	-20.6	53.3	-	-	74	-20.7	184	228	V
2	* 2.389	44.41	PK	31.5	-20.6	55.31	-	-	74	-18.69	184	228	V
3	* 2.39	29.11	RMS	31.5	-20.6	40.01	54	-13.99	-	-	184	228	V
4	* 2.39	29.87	RMS	31.5	-20.6	40.77	54	-13.23	-	-	184	228	V

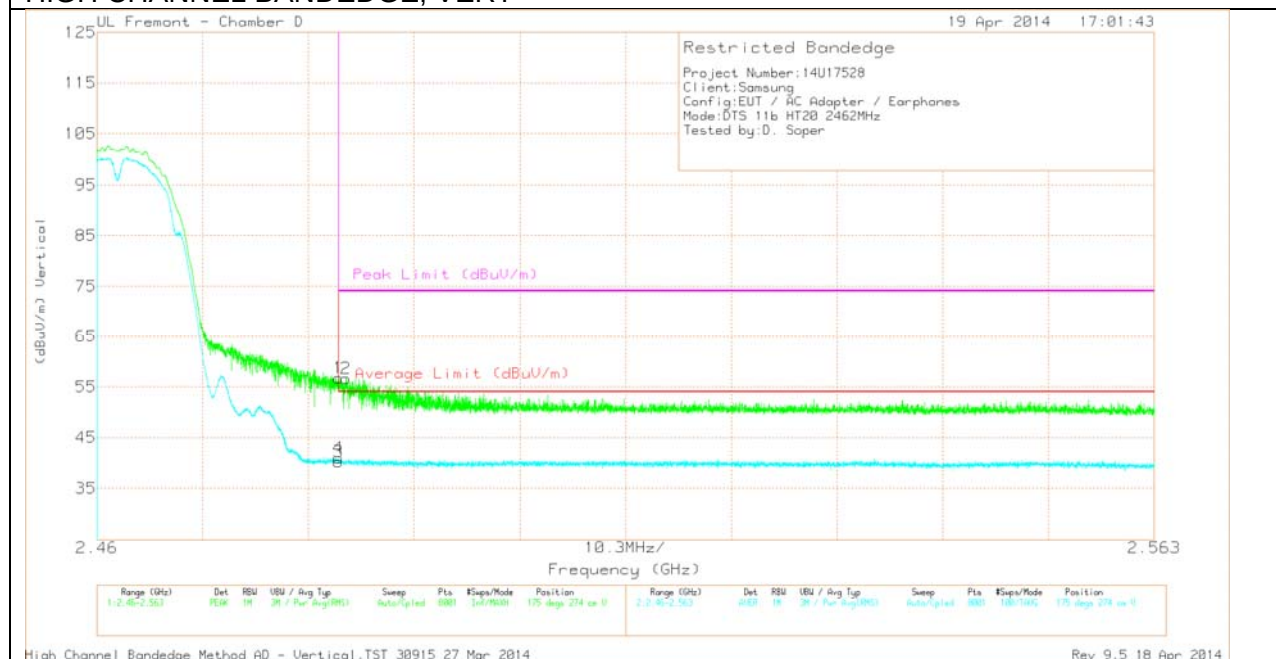
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)



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

HIGH CHANNEL BANDEDGE, VERT

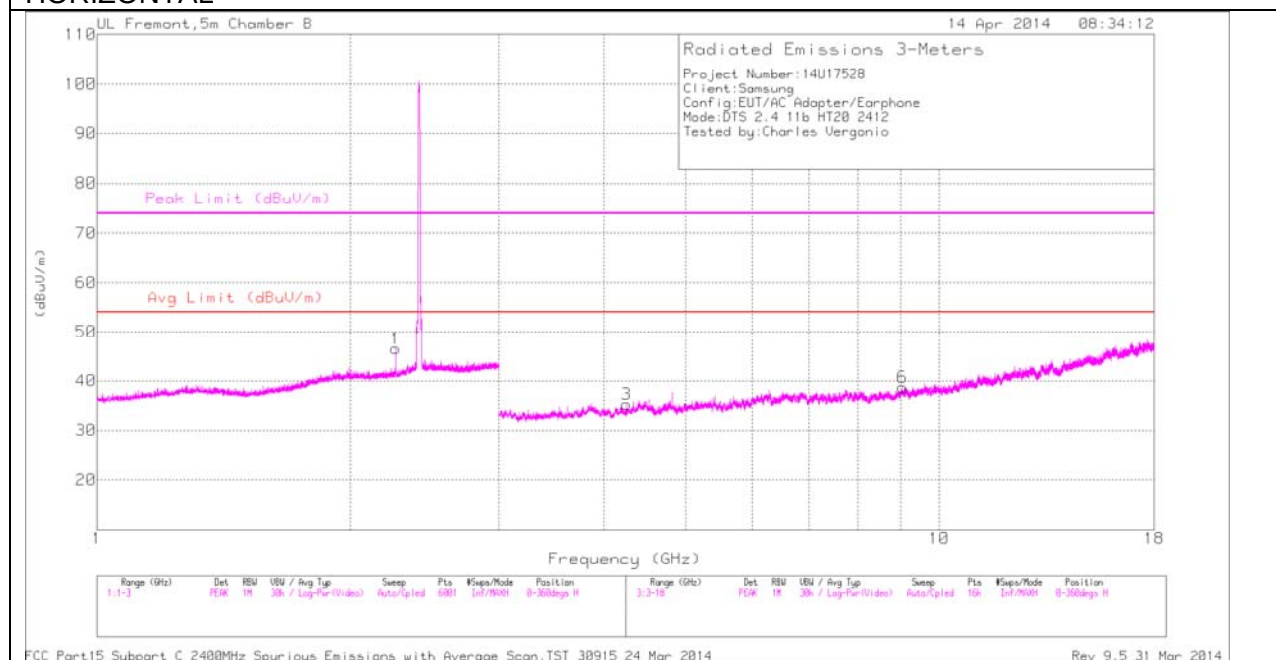


Marker	Frequen cy (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	45.27	PK	32.1	-20.6	56.77	-	-	74	-17.23	175	274	V
2	* 2.484	45.14	PK	32.1	-20.6	56.64	-	-	74	-17.36	175	274	V
3	* 2.484	28.75	RMS	32.1	-20.6	40.25	54	-13.75	-	-	175	274	V
4	* 2.484	29.43	RMS	32.1	-20.6	40.93	54	-13.07	-	-	175	274	V

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

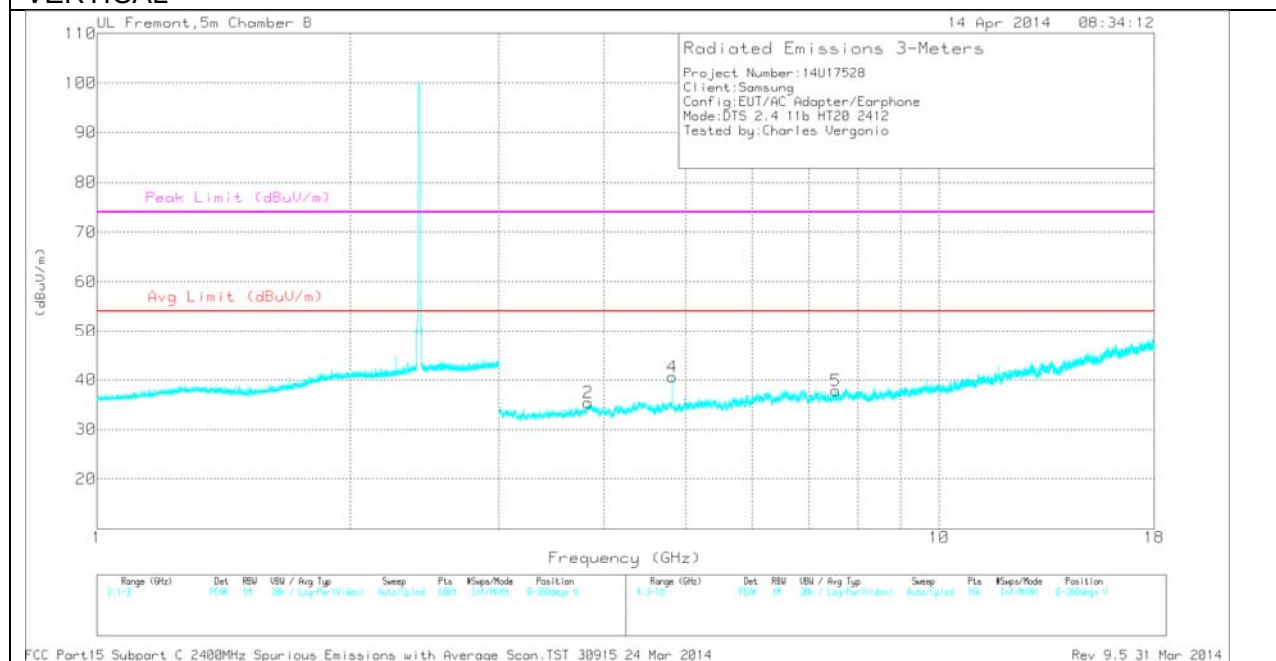
HARMONICS AND SPURIOUS EMISSIONS

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.

LOW CHANNEL 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

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.261	38.13	PK	31.5	-23.1	46.53	-	-	74	-27.47	0-360	99	H
3	* 4.252	32.44	PK	33.6	-30.8	35.24	-	-	74	-38.76	0-360	99	H
6	* 9.046	27.06	PK	36.2	-24.6	38.66	-	-	74	-35.34	0-360	99	H
2	* 3.827	31.95	PK	33.7	-30.3	35.35	-	-	74	-38.65	0-360	202	V
4	* 4.824	35.73	PK	34.2	-29.3	40.63	-	-	74	-33.37	0-360	202	V
5	* 7.545	29.57	PK	35.6	-27.4	37.77	-	-	74	-36.23	0-360	99	V

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

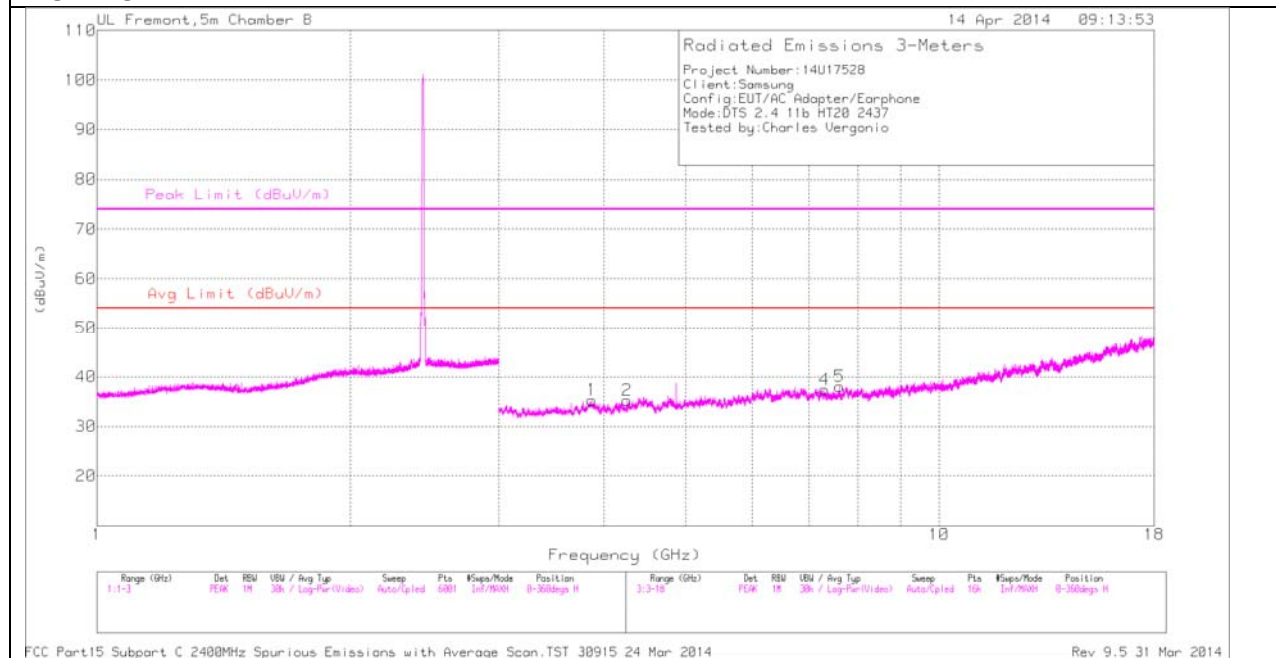
PK - Peak detector

Radiated Emissions

Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.261	44.99	PK2	31.5	-23.1	53.39	54	-0.61	74	-20.61	48	112	H
* 2.261	36.9	MAV1	31.5	-23.1	45.3	54	-8.7	74	-28.7	48	112	H
* 4.252	40.04	PK2	33.6	-30.8	42.84	54	-11.16	74	-31.16	1	100	H
* 9.046	35.45	PK2	36.2	-24.6	47.05	54	-6.95	74	-26.95	1	100	H
* 3.826	39.9	PK2	33.7	-30.4	43.2	54	-10.8	74	-30.8	1	100	V
* 7.544	37.55	PK2	35.6	-27.4	45.75	54	-8.25	74	-28.25	1	100	V
* 4.824	41.56	PK2	34.2	-29.3	46.46	54	-7.54	74	-27.54	139	251	V
* 4.824	33.83	MAV1	34.2	-29.3	38.73	54	-15.27	74	-35.27	139	251	V

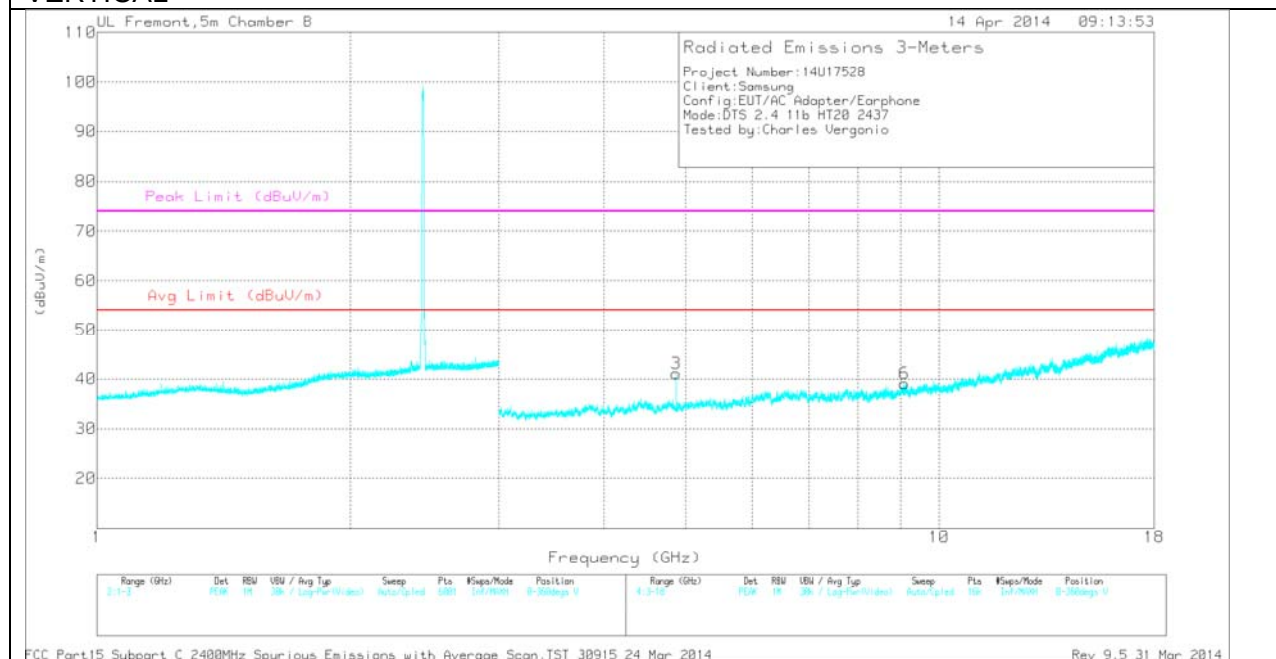
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

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.

MID CHANNEL
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

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.868	31.83	PK	33.7	-30.2	35.33	-	-	74	-38.67	0-360	99	H
2	* 4.26	32.61	PK	33.6	-30.9	35.31	-	-	74	-38.69	0-360	99	H
4	* 7.307	29.58	PK	35.6	-27.7	37.48	-	-	74	-36.52	0-360	99	H
5	* 7.613	29.86	PK	35.7	-27.5	38.06	-	-	74	-35.94	0-360	201	H
3	* 4.874	37.56	PK	34.2	-30.6	41.16	-	-	74	-32.84	0-360	202	V
6	* 9.086	27.7	PK	36.3	-24.9	39.1	-	-	74	-34.9	0-360	202	V

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

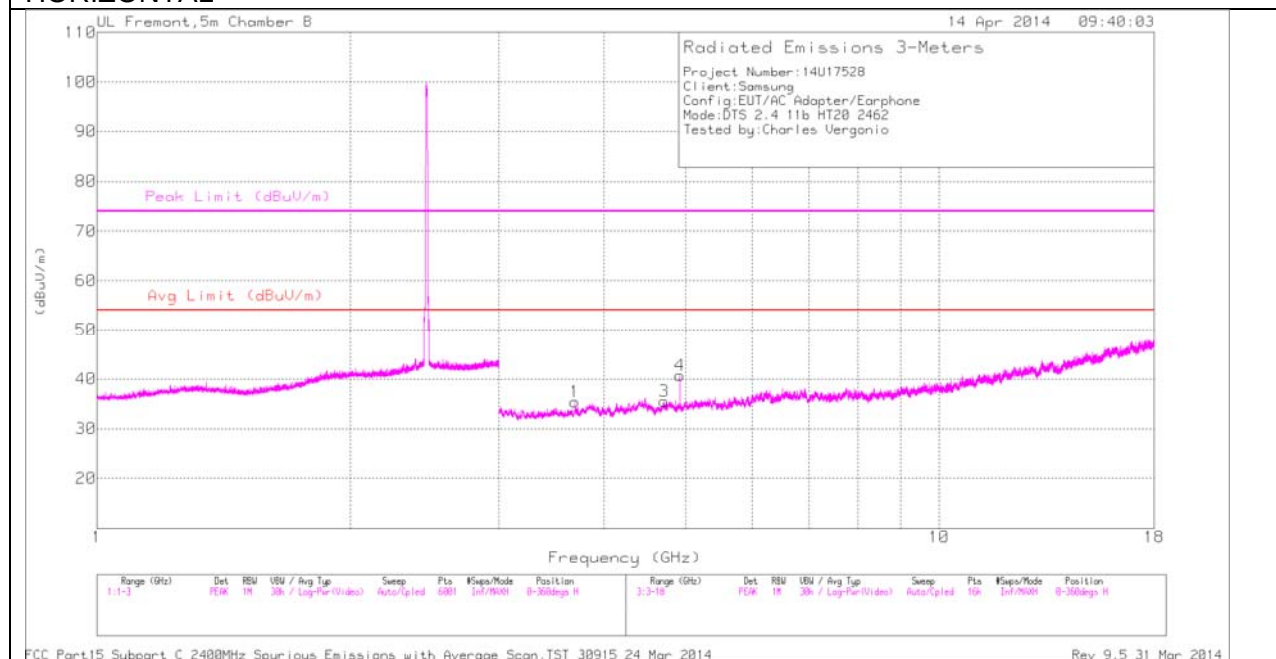
PK - Peak detector

Radiated Emissions

Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.868	39.97	PK2	33.7	-30.2	43.47	54	-10.53	74	-30.53	1	100	H
* 4.26	40.88	PK2	33.6	-30.9	43.58	54	-10.42	74	-30.42	1	100	H
* 7.307	38.7	PK2	35.6	-27.7	46.6	54	-7.4	74	-27.4	1	100	H
* 7.612	37.76	PK2	35.7	-27.5	45.96	54	-8.04	74	-28.04	1	100	H
* 9.087	35.21	PK2	36.3	-24.9	46.61	54	-7.39	74	-27.39	1	100	V
* 4.874	40.64	PK2	34.2	-30.6	44.24	54	-9.76	74	-29.76	76	396	V
* 4.874	29.83	MAV1	34.2	-30.6	33.43	54	-20.57	-	-	76	396	V

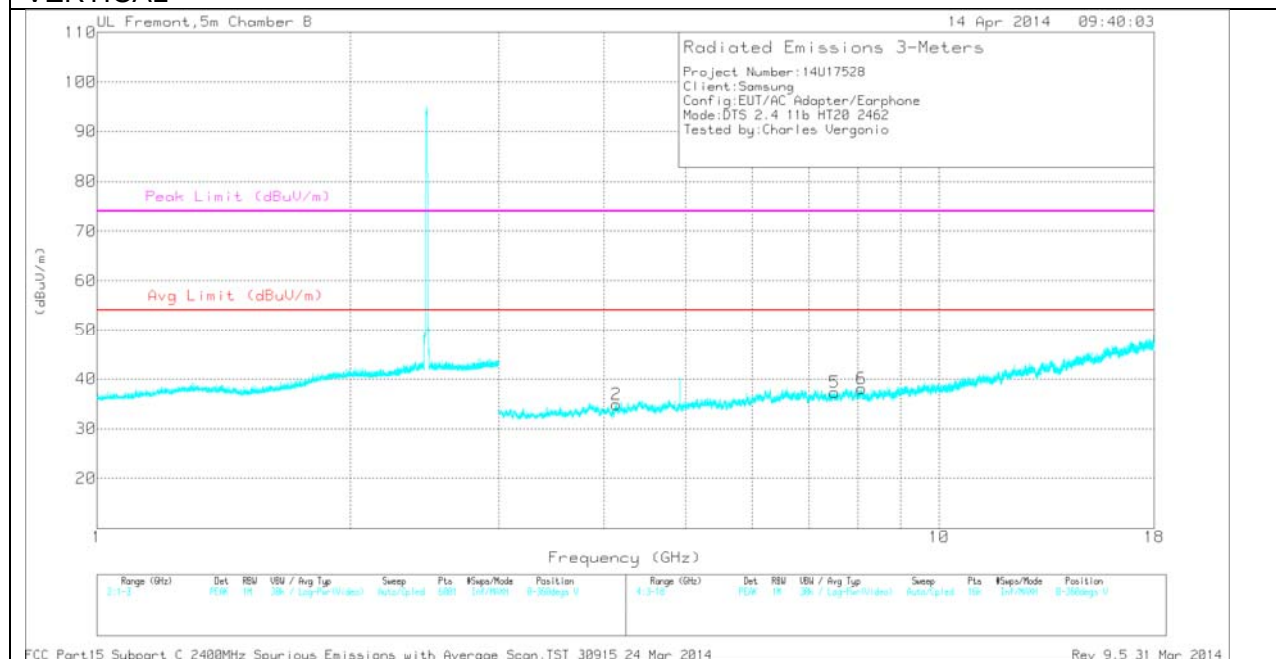
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

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
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.

HIGH CHANNEL DATA

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.693	33.25	PK	33.3	-31.2	35.35	-	-	74	-38.65	0-360	201	H
3	* 4.716	30.74	PK	34.2	-29.4	35.54	-	-	74	-38.46	0-360	99	H
4	* 4.924	37.25	PK	34.2	-30.7	40.75	-	-	74	-33.25	0-360	201	H
2	* 4.138	31.13	PK	33.6	-29.8	34.93	-	-	74	-39.07	0-360	99	V
5	* 7.511	28.46	PK	35.6	-26.8	37.26	-	-	74	-36.74	0-360	99	V
6	* 8.088	28.16	PK	35.7	-25.8	38.06	-	-	74	-35.94	0-360	202	V

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

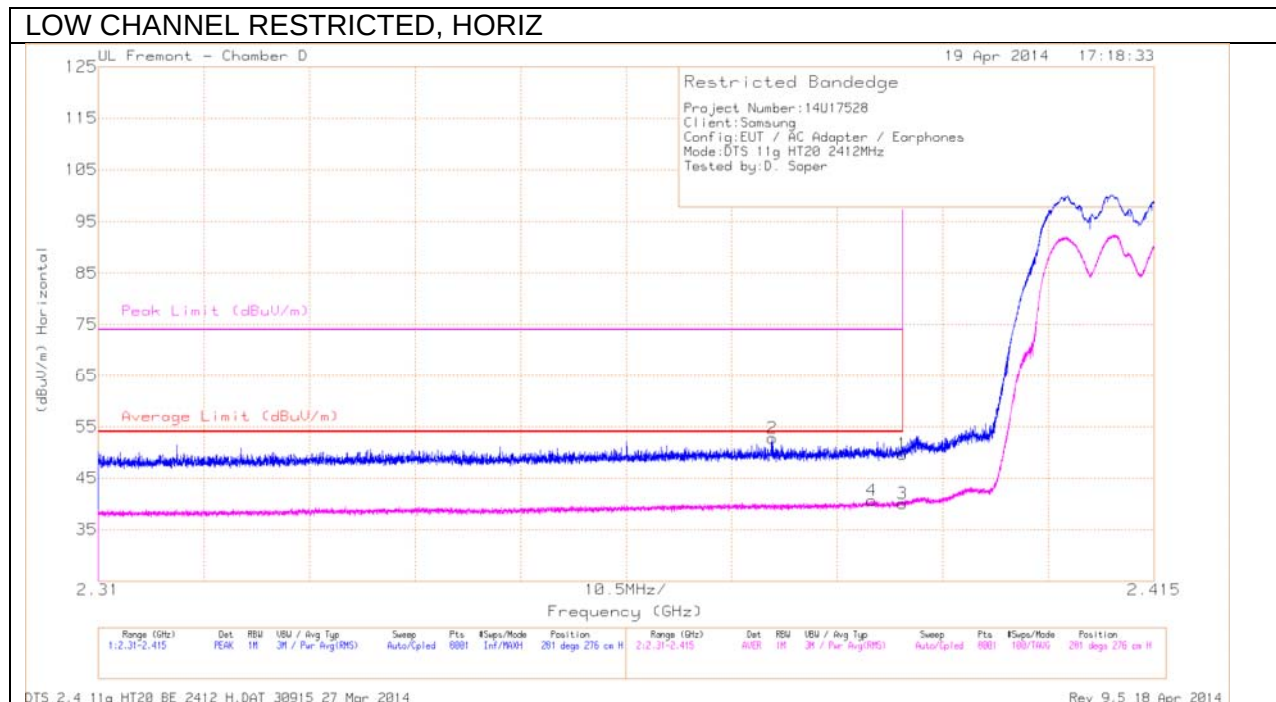
PK - Peak detector

Radiated Emissions

Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.693	41.68	PK2	33.3	-31.2	43.78	54	-10.22	74	-30.22	1	100	H
* 4.717	39.04	PK2	34.2	-29.4	43.84	54	-10.16	74	-30.16	1	100	H
* 4.924	44.63	PK2	34.2	-30.7	48.13	54	-5.87	74	-25.87	22	283	H
* 4.924	38.53	MAV1	34.2	-30.7	42.03	54	-11.97	-	-	22	283	H
* 4.139	40.07	PK2	33.6	-29.7	43.97	54	-10.03	74	-30.03	1	100	V
* 7.512	37.45	PK2	35.6	-26.8	46.25	54	-7.75	74	-27.75	1	100	V
* 8.088	36.9	PK2	35.7	-25.8	46.8	54	-7.2	74	-27.2	1	100	V

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

10.2.2. TX ABOVE 1 GHz 802.11g CDD MODE IN THE 2.4 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)



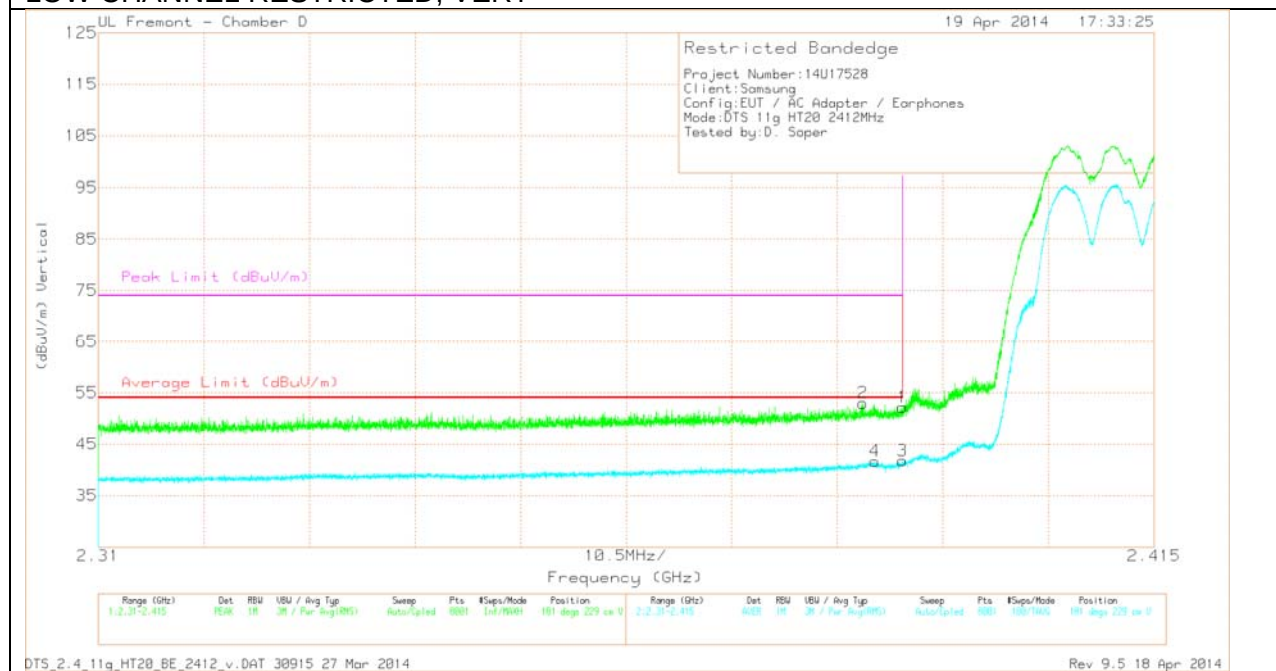
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dBm)	Amp/Cbl/FI tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	38.77	PK	31.5	-20.6	0	49.67	-	-	74	-24.33	281	276	H
2	* 2.377	42.05	PK	31.4	-20.7	0	52.75	-	-	74	-21.25	281	276	H
3	* 2.39	29.17	RMS	31.5	-20.6	.3	40.07	54	-13.93	-	-	281	276	H
4	* 2.387	29.75	RMS	31.5	-20.6	.3	40.65	54	-13.35	-	-	281	276	H

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

PK - Peak detector

RMS - RMS detection

LOW CHANNEL RESTRICTED, VERT



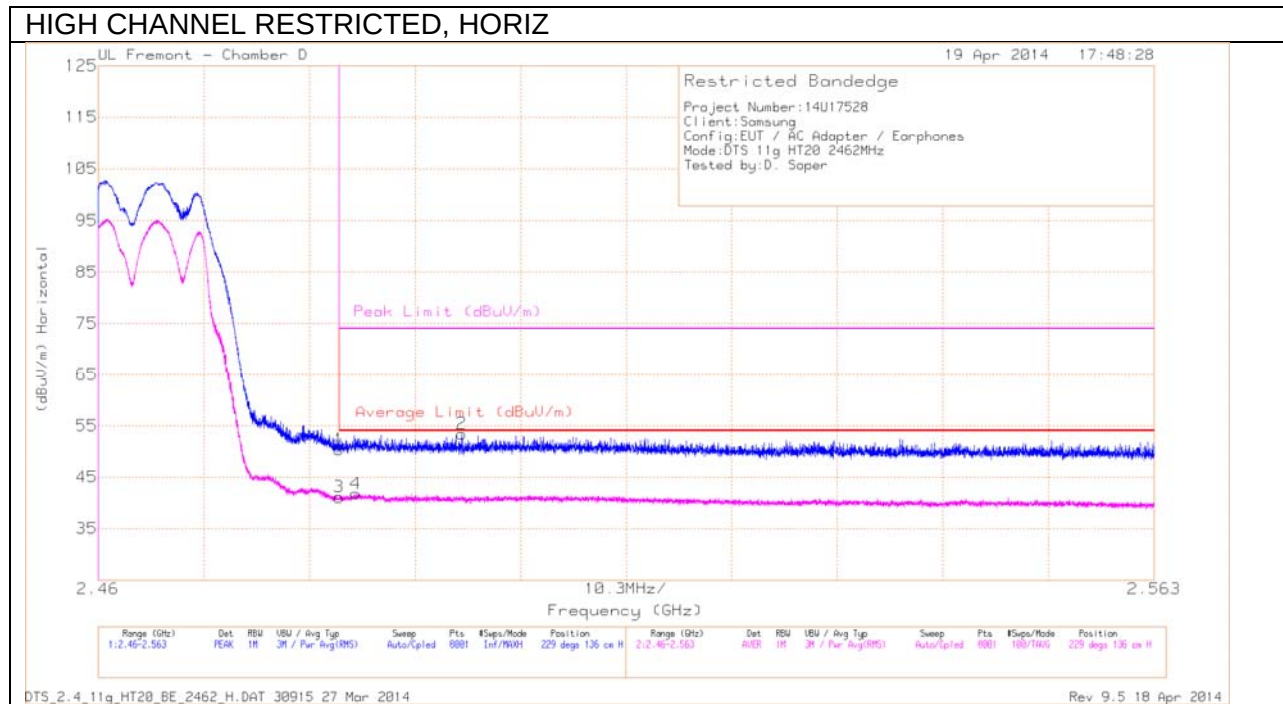
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.26	PK	31.5	-20.6	0	52.16	-	-	74	-21.84	181	229	V
2	* 2.386	42.06	PK	31.5	-20.6	0	52.96	-	-	74	-21.04	181	229	V
3	* 2.39	30.86	RMS	31.5	-20.6	.3	41.76	54	-12.24	-	-	181	229	V
4	* 2.387	30.77	RMS	31.5	-20.6	.3	41.67	54	-12.33	-	-	181	229	V

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

PK - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)



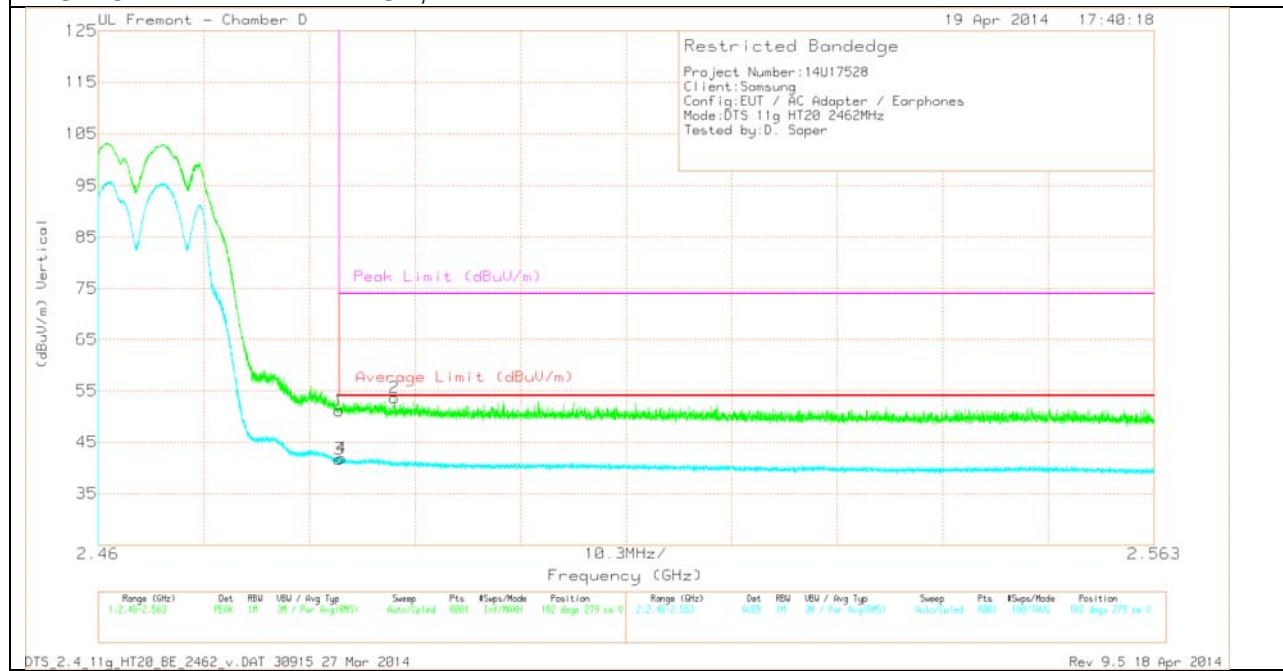
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.84	PK	32.1	-20.6	0	50.34	-	-	74	-23.66	229	136	H
2	* 2.495	42.03	PK	32.2	-20.8	0	53.43	-	-	74	-20.57	229	136	H
3	* 2.484	29.61	RMS	32.1	-20.6	.3	41.11	54	-12.89	-	-	229	136	H
4	* 2.485	30.24	RMS	32.1	-20.6	.3	41.74	54	-12.26	-	-	229	136	H

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

PK - Peak detector

RMS - RMS detection

HIGH CHANNEL BANDEDGE, VERT

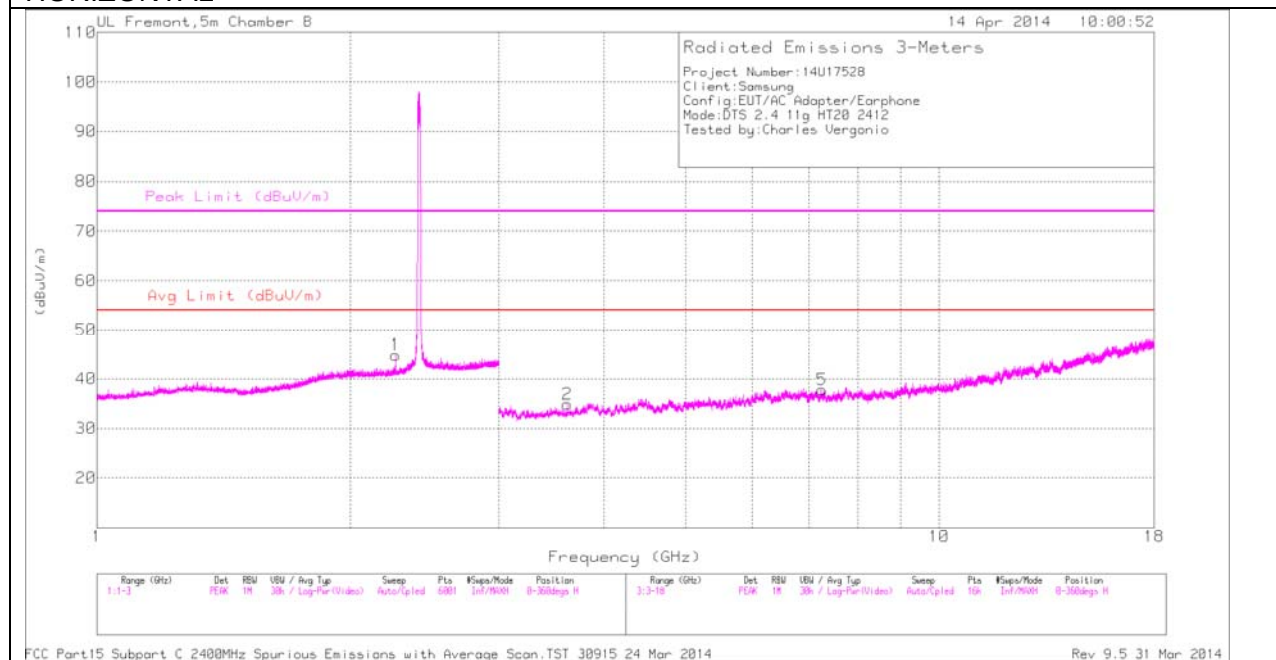


Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.64	PK	32.1	-20.6	0	51.14	-	-	74	-22.86	182	279	V
2	* 2.489	42.21	PK	32.1	-20.7	0	53.61	-	-	74	-20.39	182	279	V
3	* 2.484	30.2	RMS	32.1	-20.6	.3	41.7	54	-12.3	-	-	182	279	V
4	* 2.484	30.38	RMS	32.1	-20.6	.3	41.88	54	-12.12	-	-	182	279	V

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

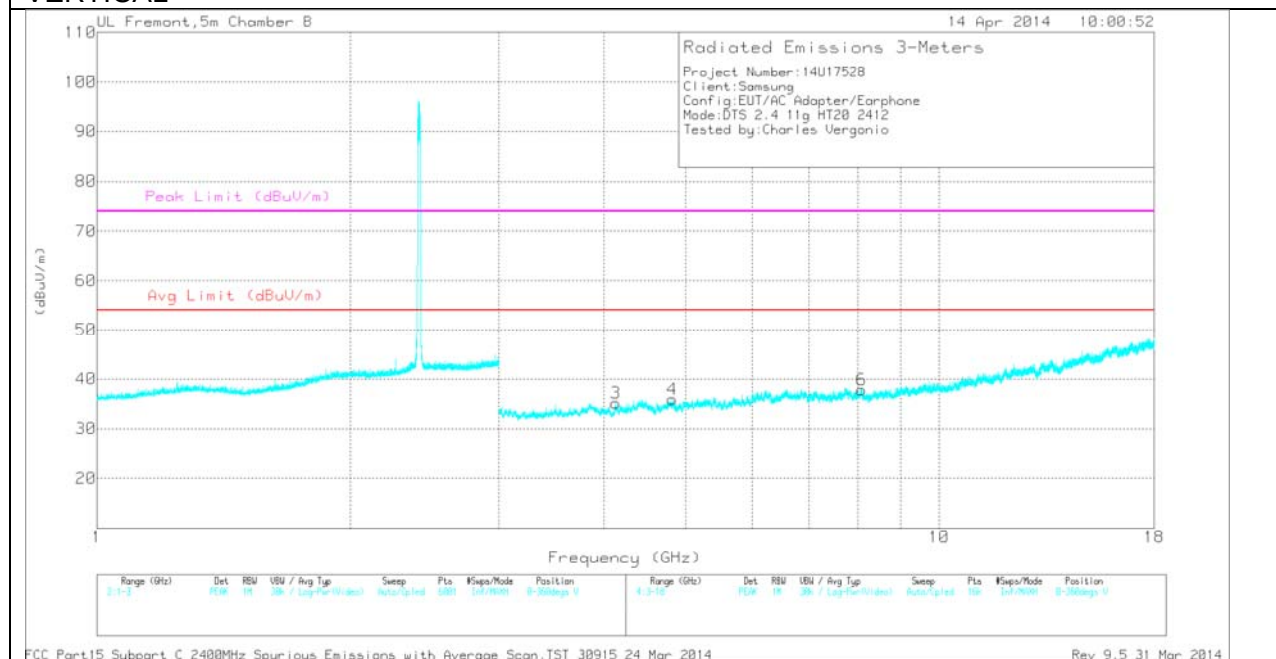
HARMONICS AND SPURIOUS EMISSIONS

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.

LOW CHANNEL
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

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.261	36.45	PK	31.5	-23.1	44.85	-	-	74	-29.15	0-360	202	H
2	* 3.618	32.87	PK	33.2	-31.2	34.87	-	-	74	-39.13	0-360	202	H
5	* 7.263	29.64	PK	35.6	-27.4	37.84	-	-	74	-36.16	0-360	202	H
3	* 4.127	31.66	PK	33.6	-30.1	35.16	-	-	74	-38.84	0-360	99	V
4	* 4.825	31.13	PK	34.2	-29.4	35.93	-	-	74	-38.07	0-360	202	V
6	* 8.088	27.93	PK	35.7	-25.8	37.83	-	-	74	-36.17	0-360	99	V

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

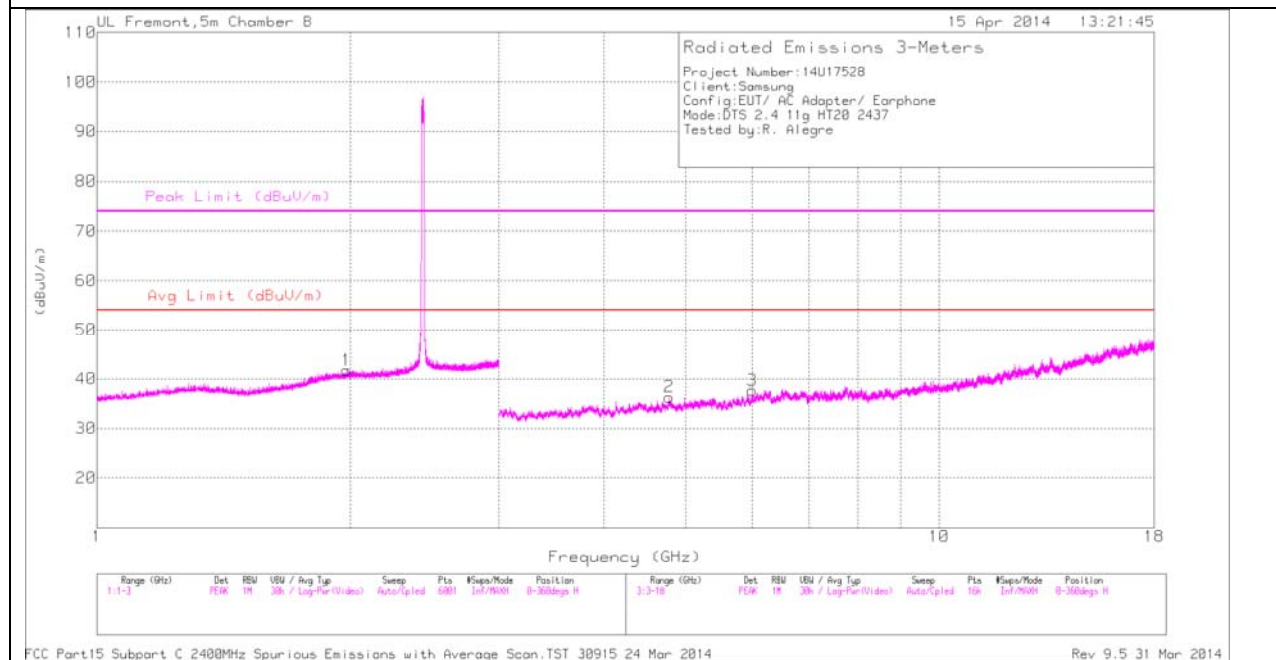
PK - Peak detector

Radiated Emissions

Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.261	42.44	PK2	31.5	-23.1	50.84	54	-3.16	74	-23.16	328	126	H
* 2.261	32.17	MAV1	31.5	-23.1	40.57	54	-13.43	-	-	328	126	H
* 3.617	40.81	PK2	33.2	-31.2	42.81	54	-11.19	74	-31.19	1	100	H
* 7.263	38.11	PK2	35.6	-27.4	46.31	54	-7.69	74	-27.69	1	100	H
* 4.127	39.85	PK2	33.6	-30.1	43.35	54	-10.65	74	-30.65	1	100	V
* 4.825	39.27	PK2	34.2	-29.4	44.07	54	-9.93	74	-29.93	1	100	V
* 8.087	36.98	PK2	35.7	-25.8	46.88	54	-7.12	74	-27.12	1	100	V

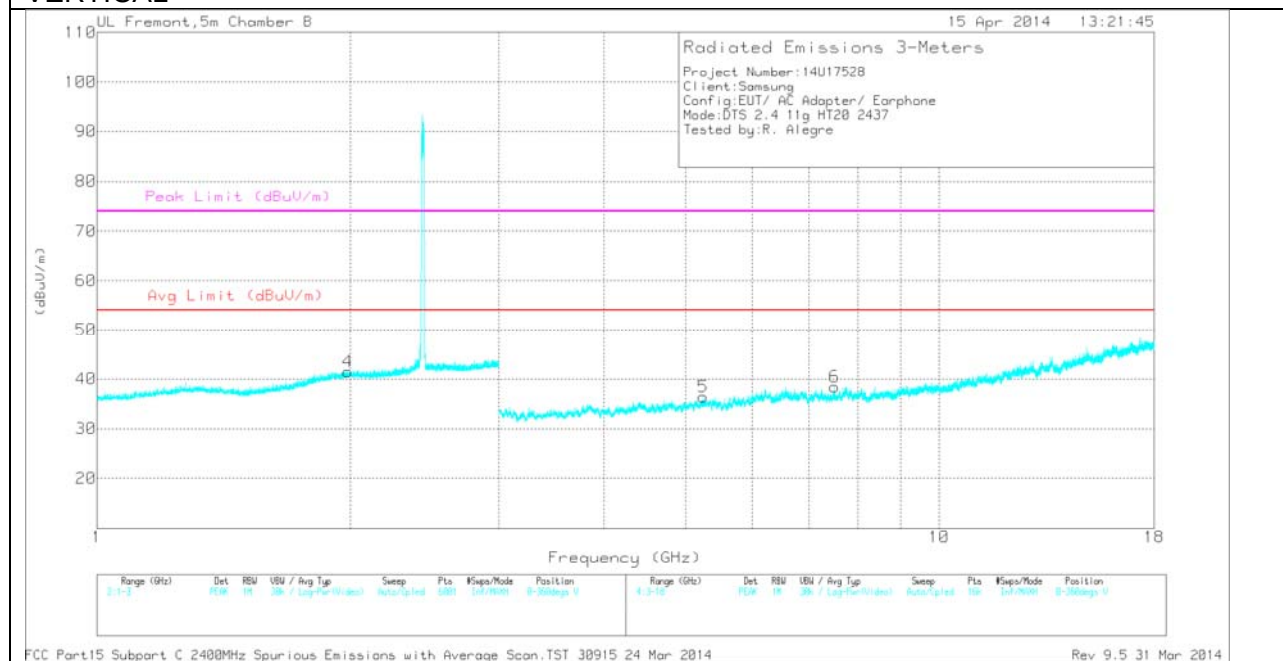
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

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.

MID CHANNEL
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

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4.776	31.35	PK	34.2	-29.2	0	36.35	-	-	74	-37.65	0-360	99	H
6	* 7.509	29.52	PK	35.6	-26.7	0	38.42	-	-	74	-35.58	0-360	202	V
1	1.979	33.94	PK	31.3	-23.5	0	41.74	-	-	-	-	0-360	202	H
4	1.984	33.7	PK	31.3	-23.5	0	41.5	-	-	-	-	0-360	202	V
5	5.248	31.96	PK	34.4	-29.9	0	36.46	-	-	-	-	0-360	99	V
3	6.002	30.93	PK	35.3	-28.5	0	37.73	-	-	-	-	0-360	202	H

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

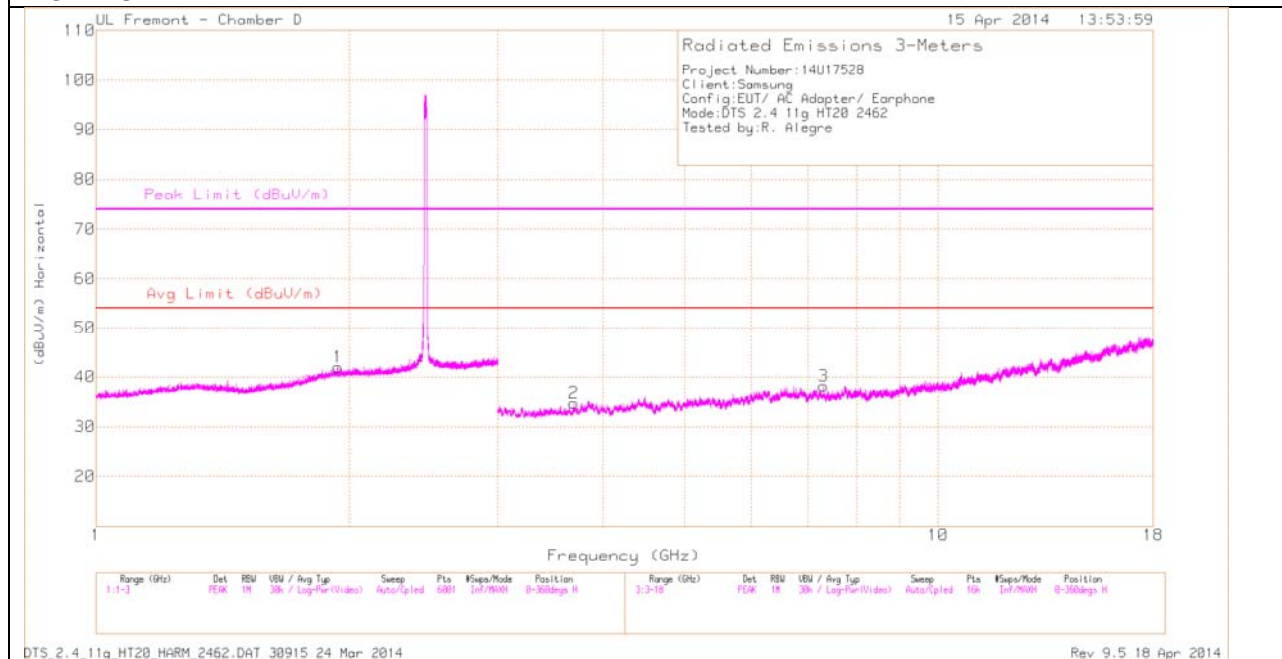
PK - Peak detector

Radiated Emissions

Frequen cy (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.772	39.77	PK2	34.2	-29.4	0	44.57	54	-9.43	74	-29.43	6	234	H
* 7.502	36.95	PK2	35.6	-26.6	0	45.95	54	-8.05	74	-28.05	6	234	V
5.242	39.65	PK2	34.4	-29.9	0	44.15	-	-	-	-	6	234	V
6.007	38.94	PK2	35.3	-28.5	0	45.74	-	-	-	-	6	234	H
6.007	19.39	PK2	35.3	-28.5	0	26.19	-	-	-	-	6	234	H

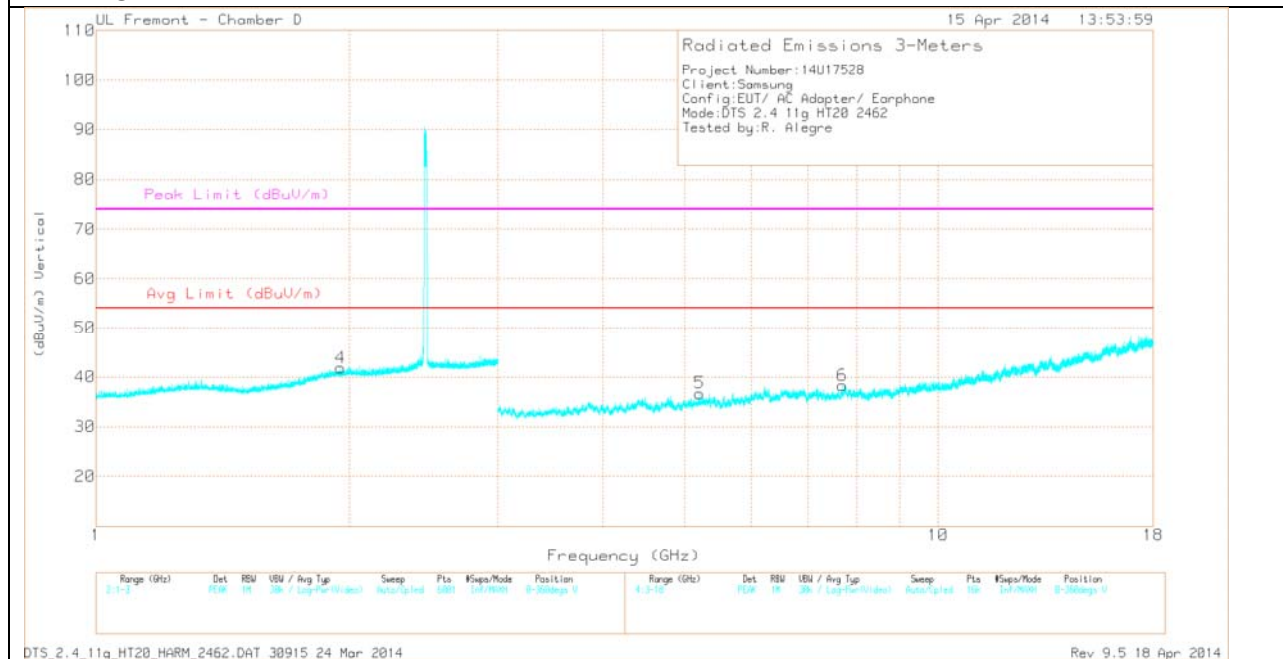
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

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
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.

HIGH CHANNEL DATA

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 3.694	32.71	PK	33.3	-31.2	0	34.81	-	-	74	-39.19	0-360	99	H
3	* 7.309	30.3	PK	35.6	-27.7	0	38.2	-	-	74	-35.8	0-360	202	H
6	* 7.698	29.3	PK	35.7	-26.7	0	38.3	-	-	74	-35.7	0-360	202	V
1	1.937	34.34	PK	31.2	-23.6	0	41.94	-	-	74	-32.06	0-360	202	H
4	1.953	34.31	PK	31.2	-23.6	0	41.91	-	-	74	-32.09	0-360	99	V
5	5.21	32.53	PK	34.4	-30.2	0	36.73	-	-	74	-37.27	0-360	202	V

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

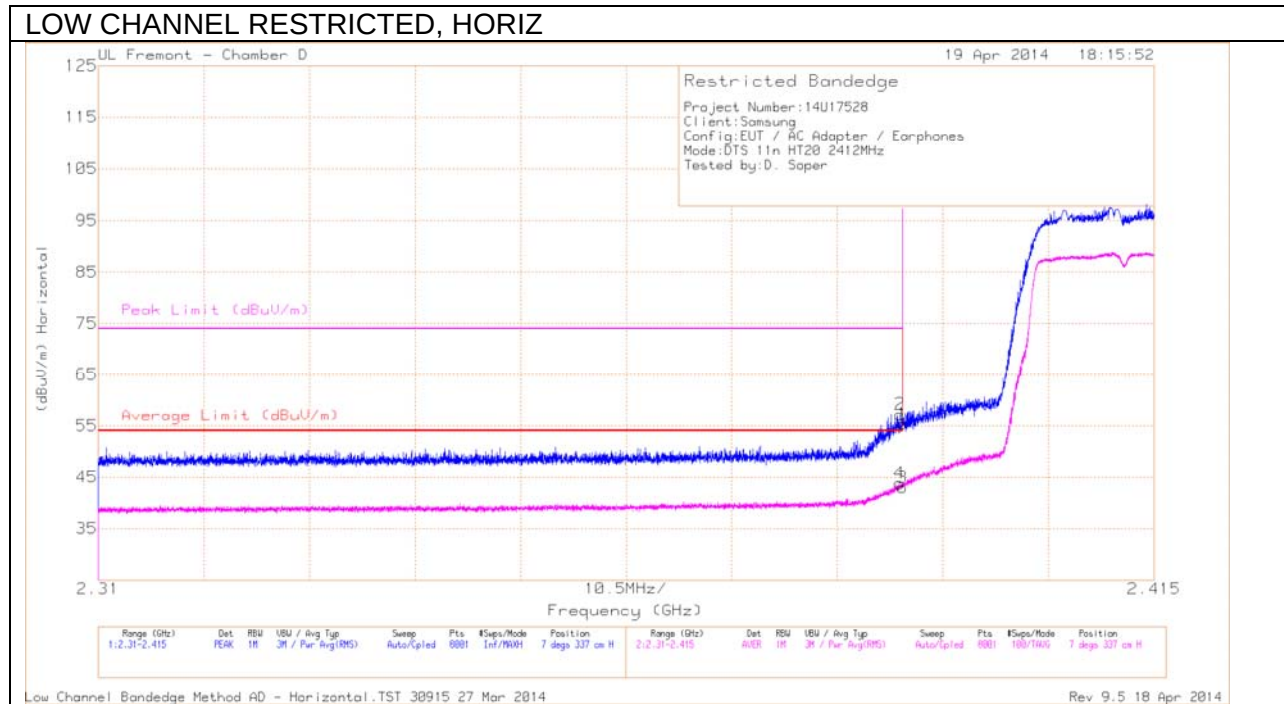
PK - Peak detector

Radiated Emissions

Frequen cy (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl /Ftr/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.698	40.6	PK2	33.3	-31.2	0	42.7	-	-	74	-31.3	1	100	H
* 7.304	37.96	PK2	35.6	-27.7	0	45.86	-	-	74	-28.14	1	100	H
* 7.693	40.97	PK2	35.7	-26.7	0	49.97	-	-	74	-24.03	27	268	V
* 7.69	31.09	MAV1	35.7	-26.7	.3	40.39	54	-13.61	-	-	27	268	V

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

10.2.3. TX ABOVE 1 GHz 802.11n HT20 CDD MODE IN THE 2.4 GHz BAND **RESTRICTED BANDEDGE (LOW CHANNEL)**



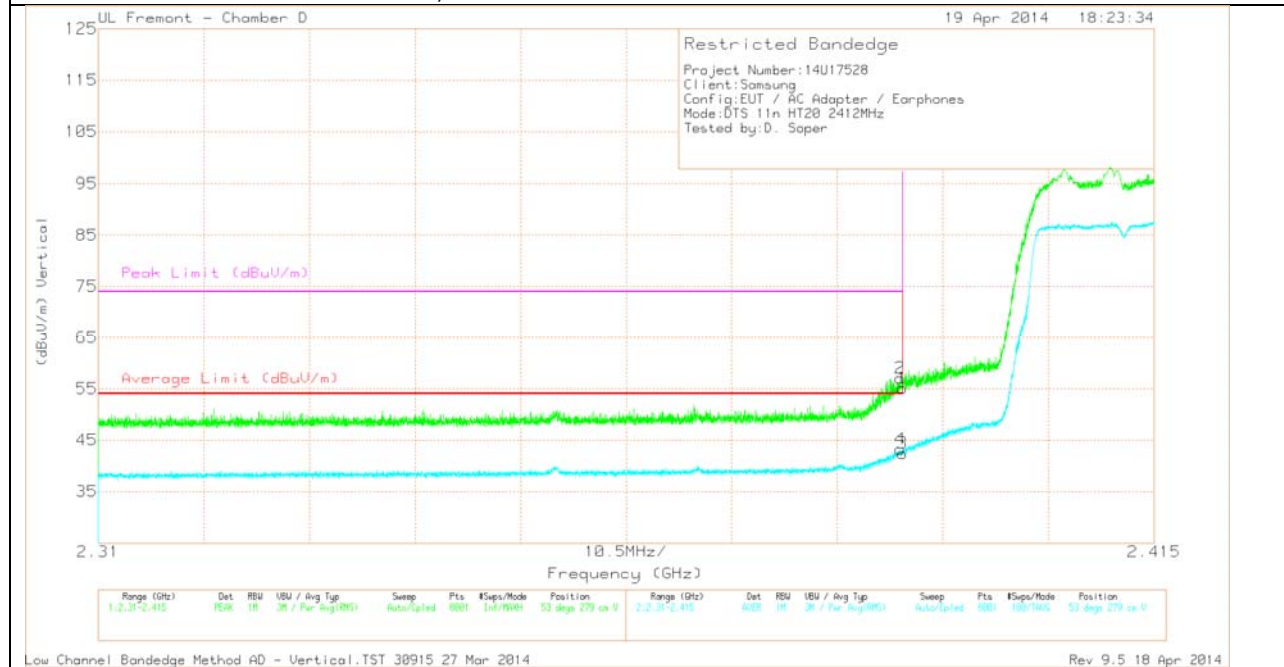
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	44.41	PK	31.5	-20.6	0	55.31	-	-	74	-18.69	7	337	H
2	* 2.39	46.3	PK	31.5	-20.6	0	57.2	-	-	74	-16.8	7	337	H
3	* 2.39	31.48	RMS	31.5	-20.6	.6	42.98	54	-11.02	-	-	7	337	H
4	* 2.39	32.3	RMS	31.5	-20.6	.6	43.8	54	-10.2	-	-	7	337	H

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

PK - Peak detector

RMS - RMS detection

LOW CHANNEL RESTRICTED, VERT



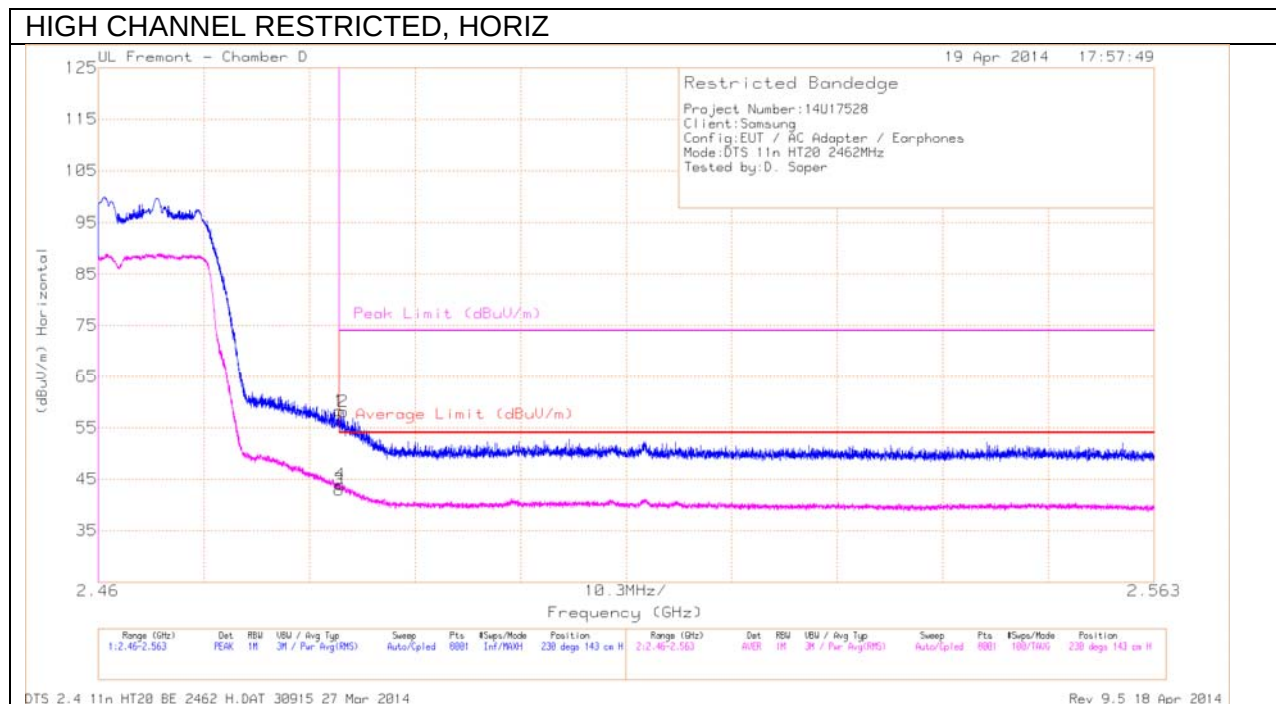
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	44.19	PK	31.5	-20.6	0	55.09	-	-	74	-18.91	53	279	V
2	* 2.39	46.14	PK	31.5	-20.6	0	57.04	-	-	74	-16.96	53	279	V
3	* 2.39	31.55	RMS	31.5	-20.6	.6	42.45	54	-11.55	-	-	53	279	V
4	* 2.39	32.33	RMS	31.5	-20.6	.6	43.23	54	-10.77	-	-	53	279	V

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

PK - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)



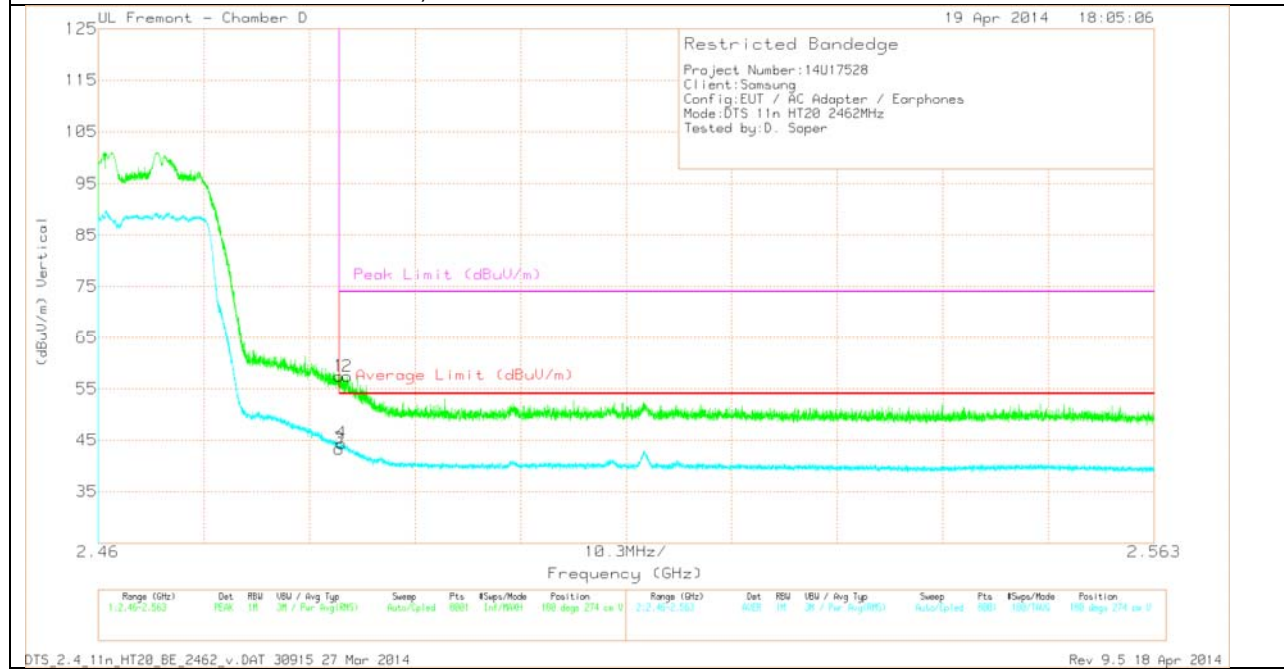
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	46.77	PK	32.1	-20.6	0	58.27	-	-	74	-15.73	230	143	H
2	* 2.484	46.61	PK	32.1	-20.6	0	58.11	-	-	74	-15.89	230	143	H
3	* 2.484	31.39	RMS	32.1	-20.6	.6	42.89	54	-11.11	-	-	230	143	H
4	* 2.484	32.47	RMS	32.1	-20.6	.6	43.97	54	-10.03	-	-	230	143	H

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

PK - Peak detector

RMS - RMS detection

HIGH CHANNEL BANDEDGE, VERT



Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	45.95	PK	32.1	-20.6	0	57.45	-	-	74	-16.55	180	274	V
2	* 2.484	45.88	PK	32.1	-20.6	0	57.38	-	-	74	-16.62	180	274	V
3	* 2.484	31.82	RMS	32.1	-20.6	.6	43.32	54	-10.68	-	-	180	274	V
4	* 2.484	32.89	RMS	32.1	-20.6	.6	44.39	54	-9.61	-	-	180	274	V

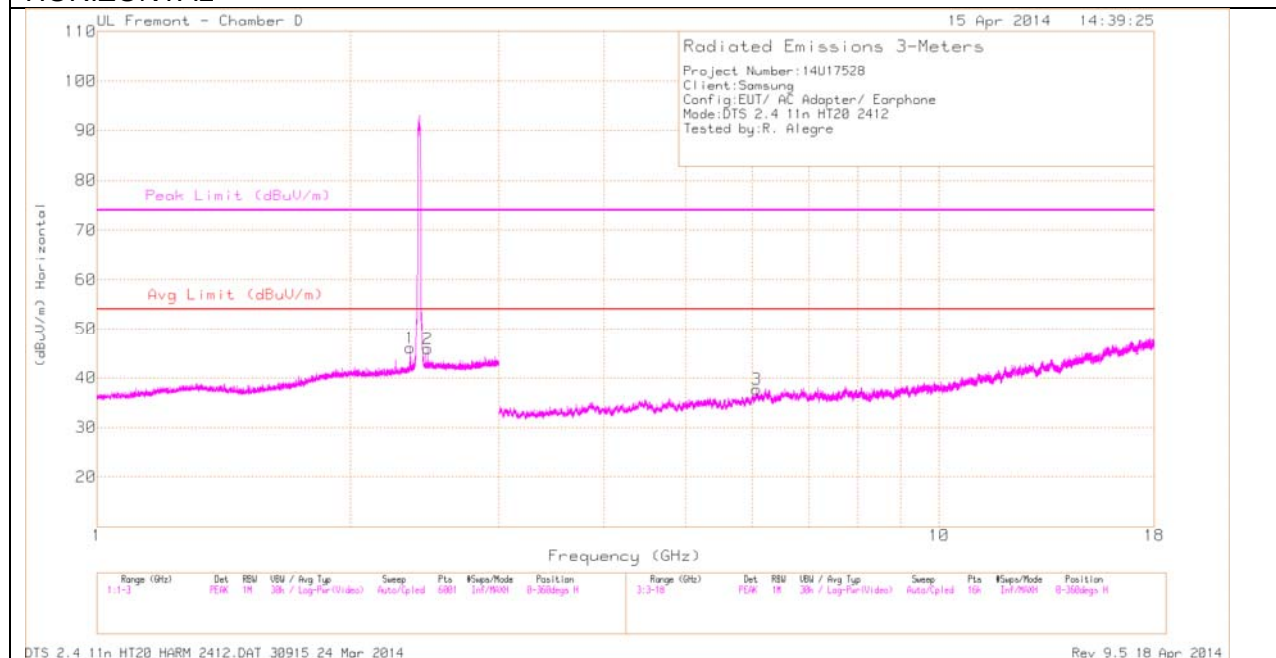
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

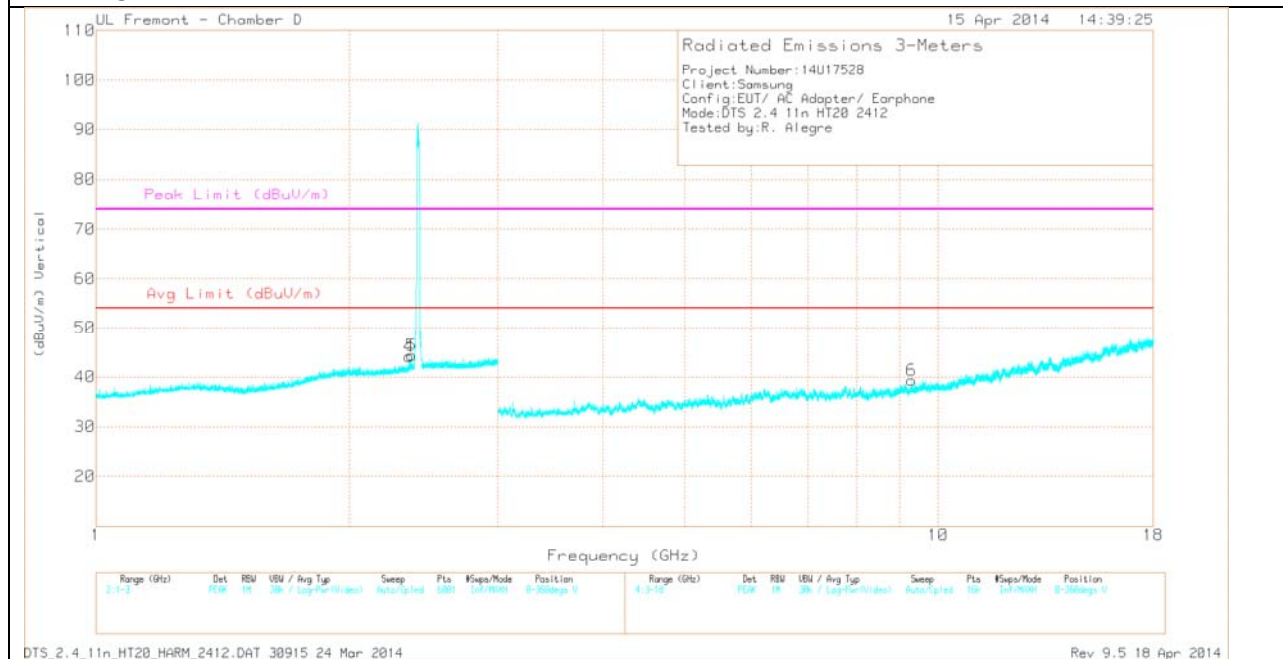
HARMONICS AND SPURIOUS EMISSIONS

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.

LOW CHANNEL
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

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtri/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.355	37.13	PK	31.9	-23	0	46.03	-	-	74	-27.97	0-360	99	H
4	* 2.355	35.28	PK	31.9	-23	0	44.18	-	-	74	-29.82	0-360	202	V
5	* 2.37	35.19	PK	32	-22.8	0	44.39	-	-	74	-29.61	0-360	202	V
2	2.468	36.32	PK	32.4	-22.8	0	45.92	-	-	-	-	0-360	99	H
3	6.067	31.62	PK	35.3	-29.2	0	37.72	-	-	-	-	0-360	201	H
6	9.295	27.54	PK	36.4	-24.6	0	39.34	-	-	-	-	0-360	99	V

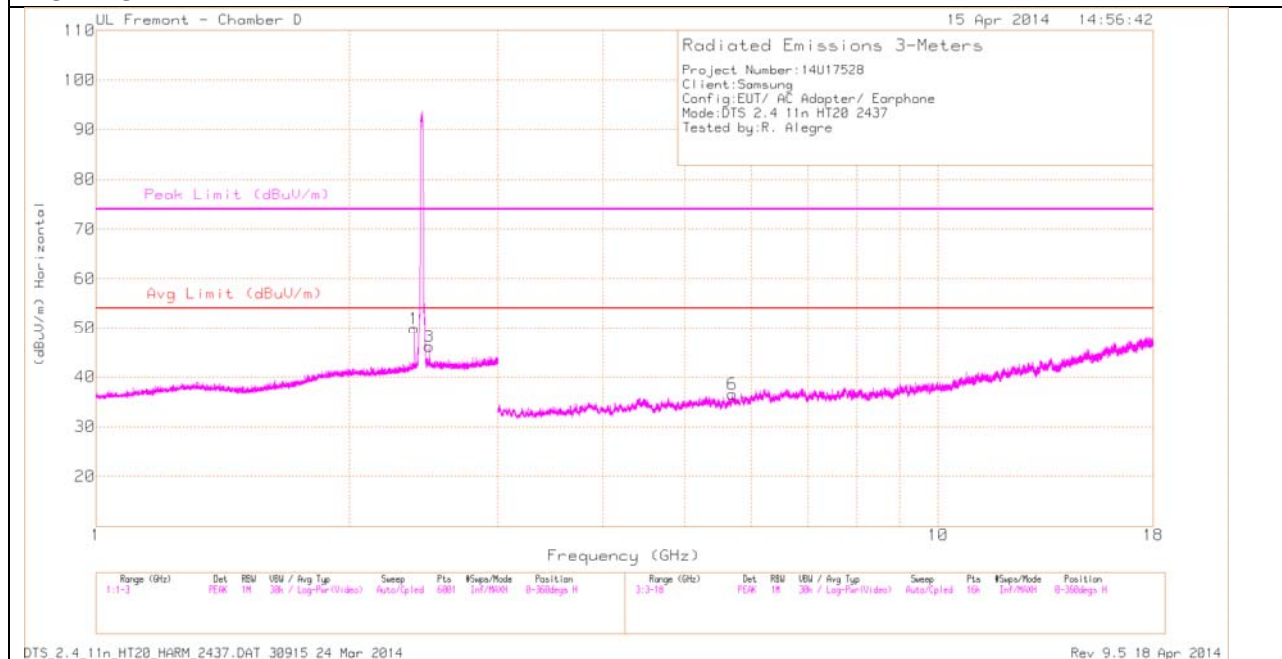
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtri/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.355	42.27	PK2	31.9	-23	0	51.17	-	-	74	-22.83	200	225	H
* 2.356	32.64	MAV1	31.9	-23	.3	42.14	54	-11.86	-	-	200	225	H
* 2.35	42.42	PK2	31.9	-23	0	51.32	-	-	74	-22.68	200	225	V
* 2.376	42.08	PK2	32	-22.9	0	51.18	-	-	74	-22.82	200	225	V
* 2.388	42.78	PK2	32.1	-22.9	0	51.98	-	-	74	-22.02	240	102	V
* 4.786	40.94	PK2	34.2	-28.9	0	46.24	-	-	74	-27.76	240	102	V

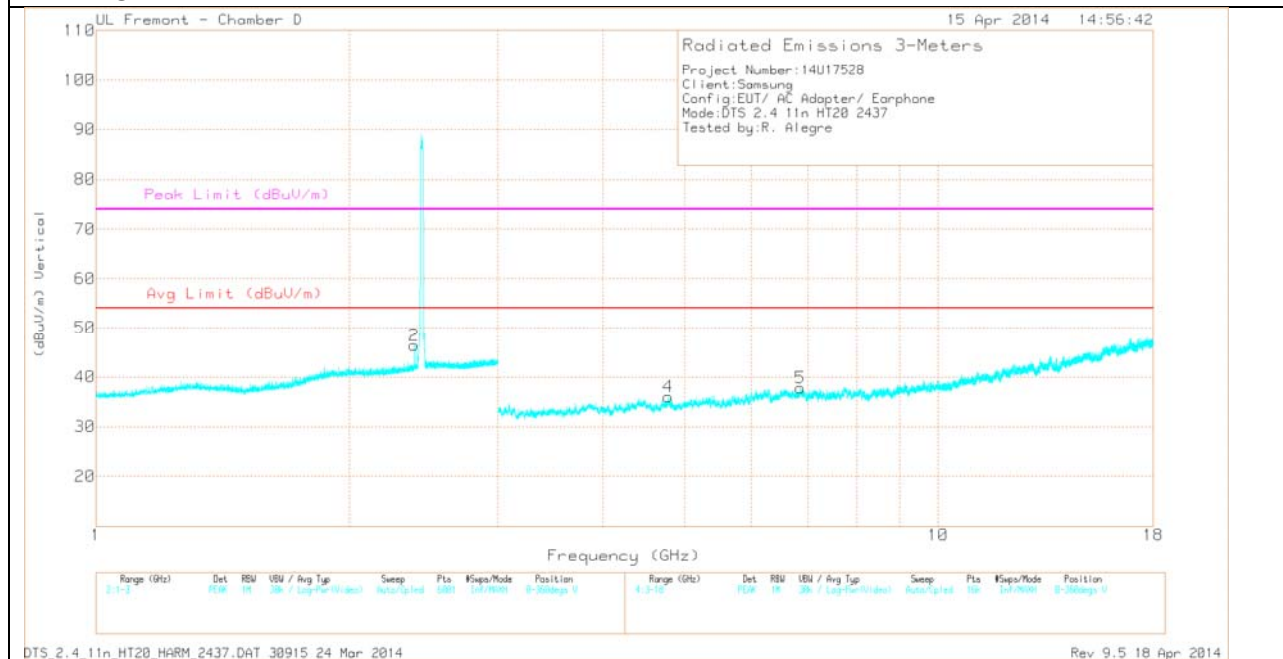
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

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.

MID CHANNEL
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

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.386	40.7	PK	32.1	-22.9	0	49.9	-	-	74	-24.1	0-360	202	H
3	* 2.488	36.44	PK	32.4	-22.6	0	46.24	-	-	74	-27.76	0-360	99	H
2	* 2.386	37.29	PK	32.1	-22.9	0	46.49	-	-	74	-27.51	0-360	203	V
4	* 4.783	30.86	PK	34.2	-29	0	36.06	-	-	74	-37.94	0-360	202	V
6	5.694	30.81	PK	34.5	-28.8	0	36.51	-	-	-	-	0-360	99	H
5	6.864	29.56	PK	35.6	-27.3	0	37.86	-	-	-	-	0-360	99	V

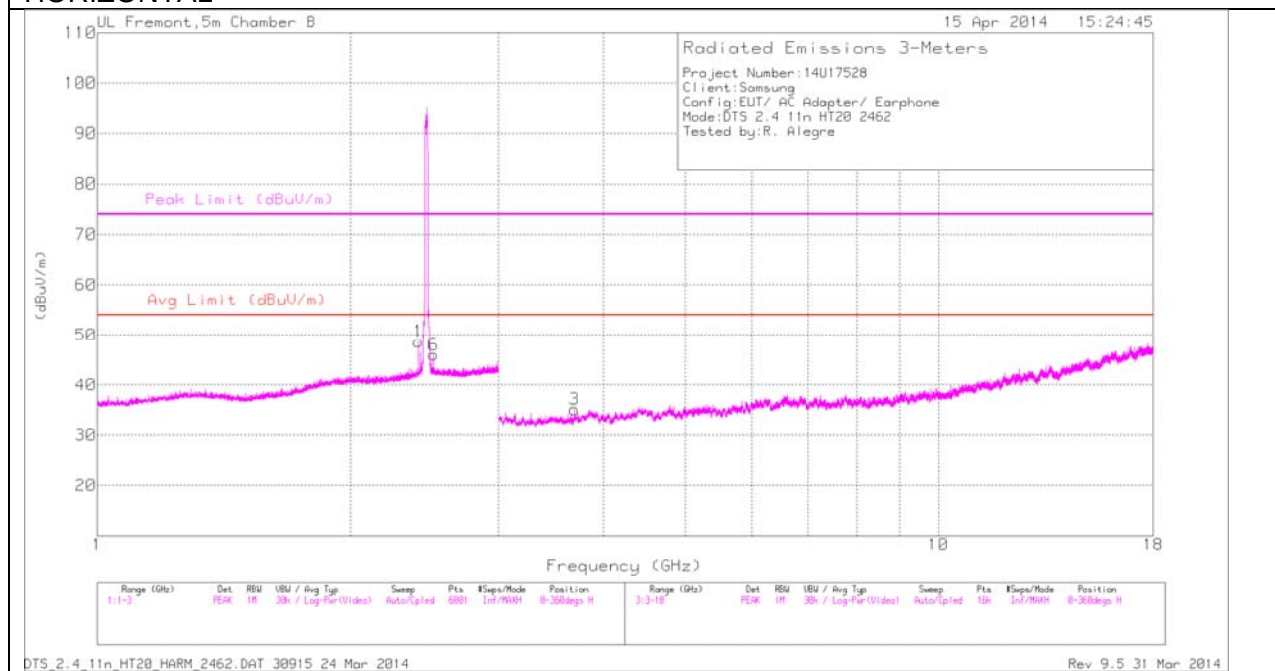
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.388	42.36	PK2	32.1	-22.9	0	51.56	-	-	74	-22.44	240	102	H
* 2.387	32.03	MAV1	32.1	-22.9	.3	41.83	54	-12.17	-	-	240	102	H
* 2.487	42.38	PK2	32.4	-22.6	0	52.18	-	-	74	-21.82	240	102	H
* 2.487	31.7	MAV1	32.4	-22.6	.3	42.1	54	-11.9	-	-	240	102	H
* 2.388	42.78	PK2	32.1	-22.9	0	51.98	-	-	74	-22.02	240	102	V
* 4.786	40.94	PK2	34.2	-28.9	0	46.24	-	-	74	-27.76	240	102	V

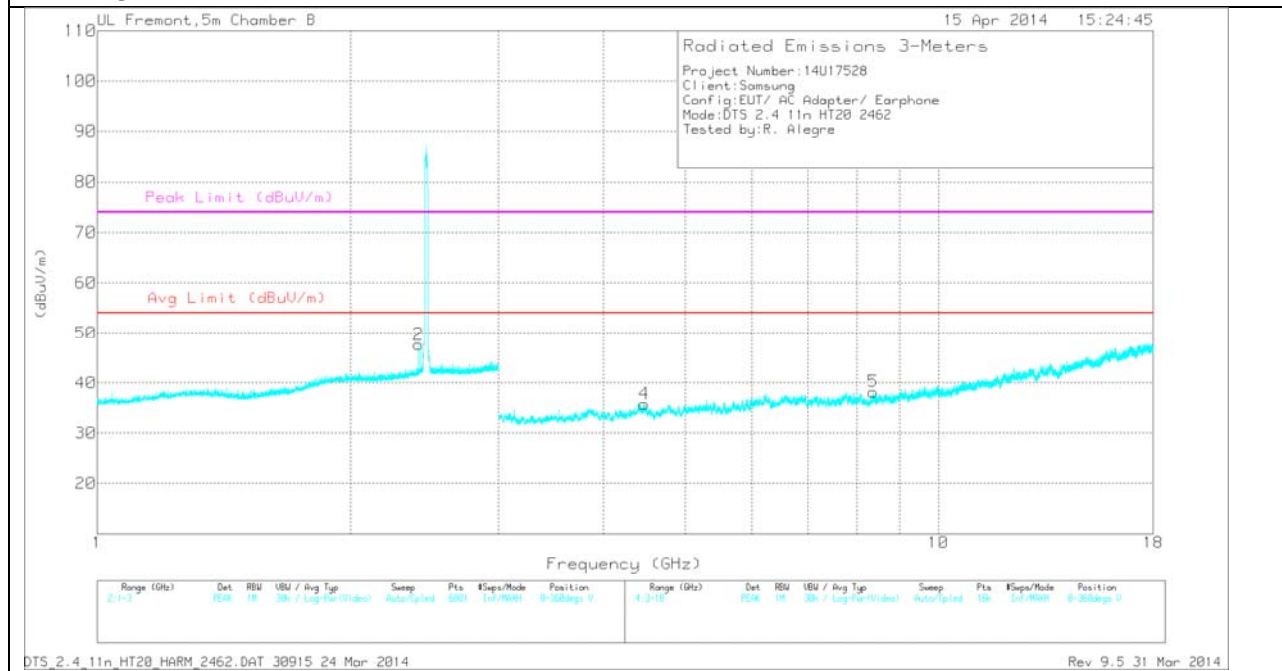
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

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
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.

HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtri/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 3.693	33	PK	33.3	-31.2	0	35.1	54	-18.9	74	-38.9	0-360	99	H
5	* 8.362	28.02	PK	35.7	-25.5	0	38.22	54	-15.78	74	-35.78	0-360	203	V
1	2.411	39.28	PK	32.2	-22.8	0	48.68	54	-5.32	74	-25.32	0-360	102	H
2	2.411	38.29	PK	32.2	-22.8	0	47.69	54	-6.31	74	-26.31	0-360	202	V
6	2.513	36.35	PK	32.5	-22.8	0	46.05	54	-7.95	74	-27.95	0-360	102	H
4	4.469	31.03	PK	33.9	-29.1	0	35.83	54	-18.17	74	-38.17	0-360	203	V

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

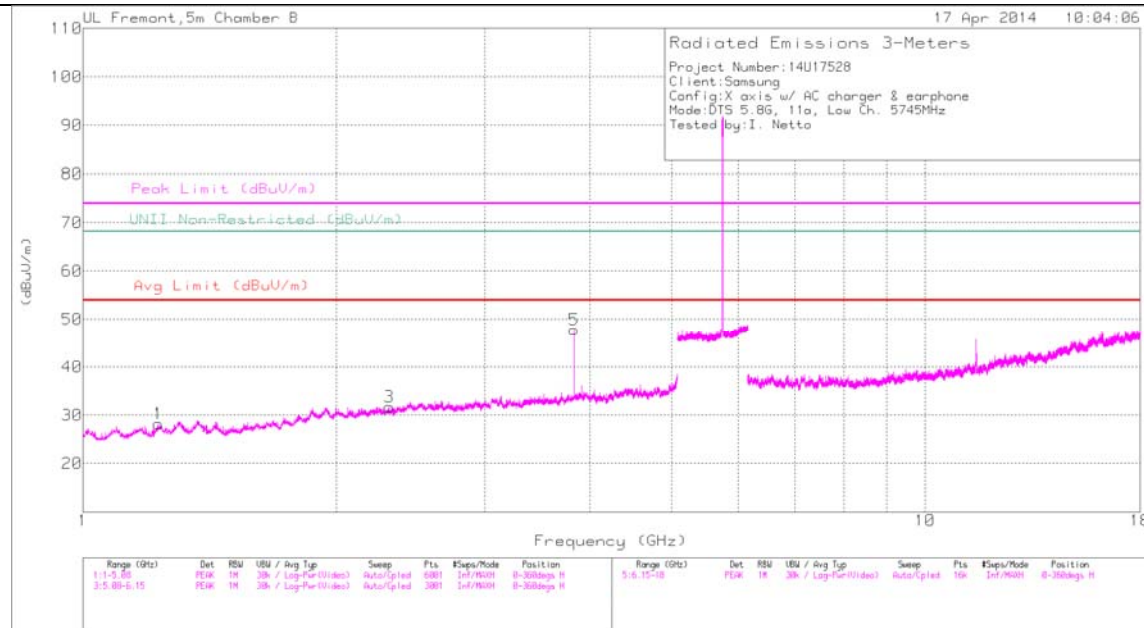
PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtri/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.684	42.06	PK2	33.3	-31.2	0	44.16	54	-9.84	74	-29.84	161	365	H
* 8.362	39.22	PK2	35.7	-25.5	0	49.42	54	-4.58	74	-24.58	161	365	V
* 8.354	29.41	MAV1	35.7	-25.6	.3	40.11	54	-13.89	-	-	161	365	V

10.2.4. TX ABOVE 1 GHz 802.11a HT20 CDD MODE IN THE 5.8 GHz BAND HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL

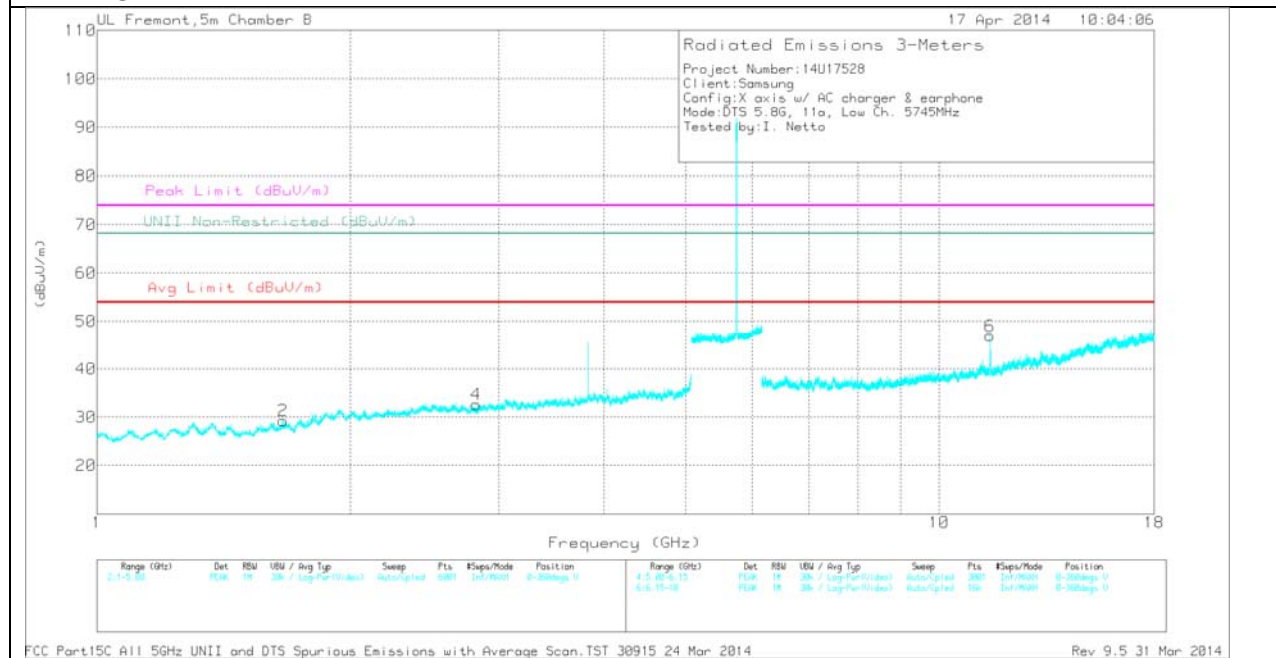


FCC Part15C All 5GHz UNII and DTS Spurious Emissions with Average Scan.TST 30915 24 Mar 2014

Rev 9.5 31 Mar 2014

Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Ampl/Cbl/ Filt/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non- Restrict ed (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.23	34.55	PK	28.4	-34.7	0	28.25	-	-	74	-45.75	-	-	0-360	99	H
5	* 3.83	45.13	PK	33.7	-31	0	47.83	-	-	74	-26.17	-	-	0-360	99	H
2	* 1.663	33.56	PK	28.8	-33.1	0	29.26	-	-	74	-44.74	-	-	0-360	99	V
4	* 2.819	32.85	PK	32.4	-32.6	0	32.65	-	-	74	-41.35	-	-	0-360	202	V
6	* 11.49	31.97	PK	38	-23	0	46.97	-	-	74	-27.03	-	-	0-360	202	V
3	2.308	33.07	PK	31.7	-33	0	31.77	-	-	-	-	68.2	-36.43	0-360	99	H

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

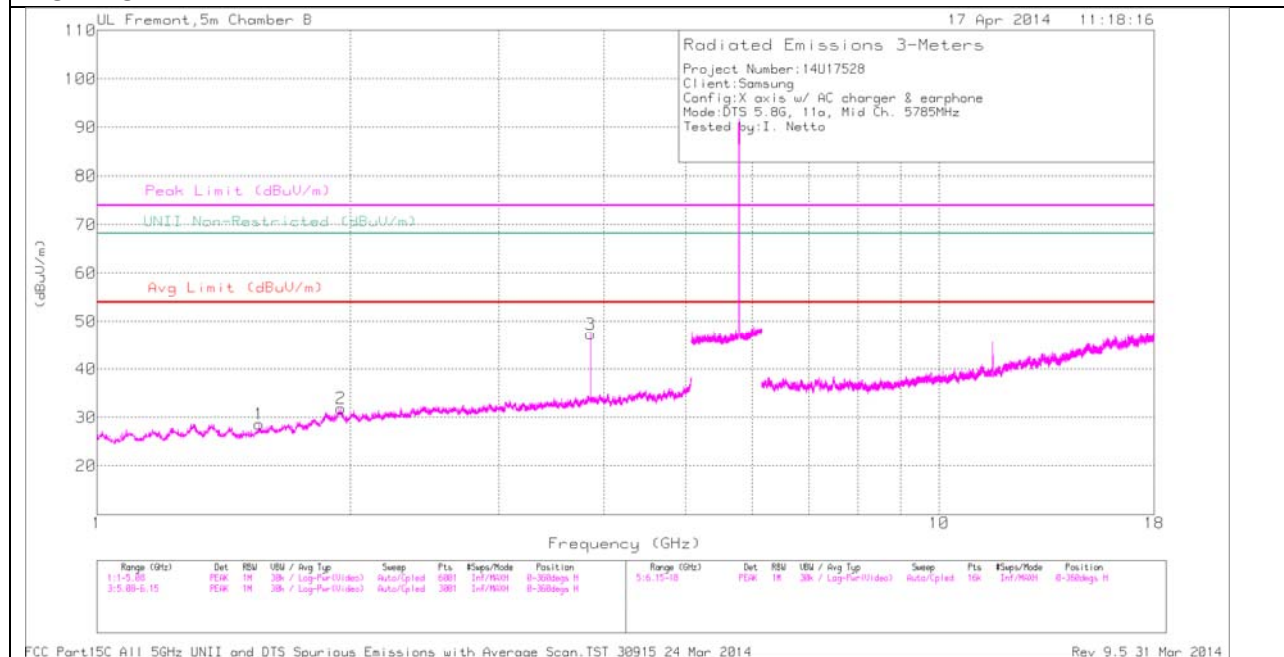
PK - Peak detector

Radiated Emissions

Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Ampl/Cbl/ Filt/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non- Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.231	43.04	PK2	28.4	-34.7	0	36.74	-	-	74	-37.26	-	-	10	248	H
* 3.83	51.83	PK2	33.7	-31	0	54.53	-	-	74	-19.47	-	-	7	250	H
* 3.83	49.77	MAv1	33.7	-31	.3	52.67	54	-1.33	-	-	-	-	7	250	H
* 1.663	41.97	PK2	28.8	-33.1	0	37.67	-	-	74	-36.33	-	-	10	248	V
* 2.818	40.45	PK2	32.4	-32.6	0	40.25	-	-	74	-33.75	-	-	10	248	V
* 11.491	40.63	PK2	38	-23	0	55.63	-	-	74	-18.37	-	-	145	228	V
* 11.49	29.68	MAv1	38	-23	.3	44.88	54	-9.12	-	-	-	-	145	228	V
2.309	41.38	PK2	31.7	-33	0	40.08	-	-	-	-	68.2	-28.12	10	248	H

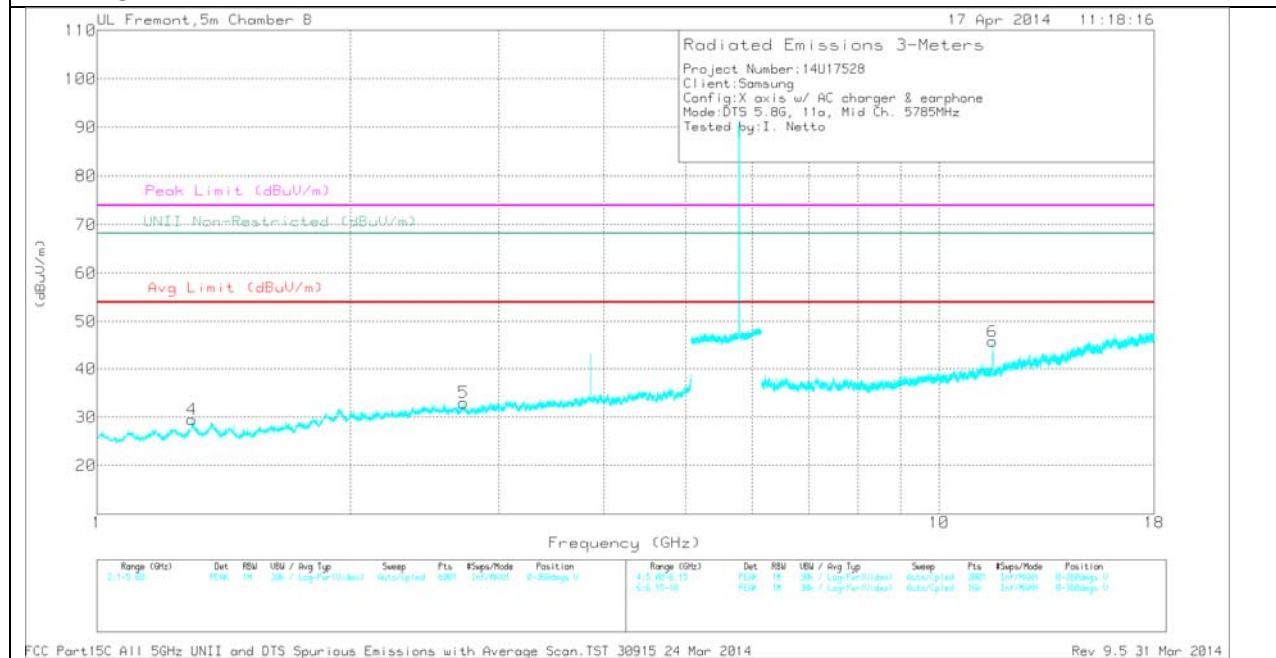
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

MID CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Ampl/Cbl/ Ftr/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non- Restrict ed (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.558	33.97	PK	28.3	-33.7	0	28.57	-	-	74	-45.43	-	-	0-360	201	H
3	* 3.857	45.08	PK	33.7	-31.4	0	47.38	-	-	74	-26.62	-	-	0-360	99	H
4	* 1.297	35.01	PK	28.8	-34.3	0	29.51	-	-	74	-44.49	-	-	0-360	202	V
5	* 2.726	32.68	PK	32.2	-31.9	0	32.98	-	-	74	-41.02	-	-	0-360	99	V
6	* 11.569	30.48	PK	38.1	-22.8	0	45.78	-	-	74	-28.22	-	-	0-360	202	V
2	1.947	33.22	PK	31.2	-32.5	0	31.92	-	-	-	-	68.2	-36.28	0-360	99	H

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

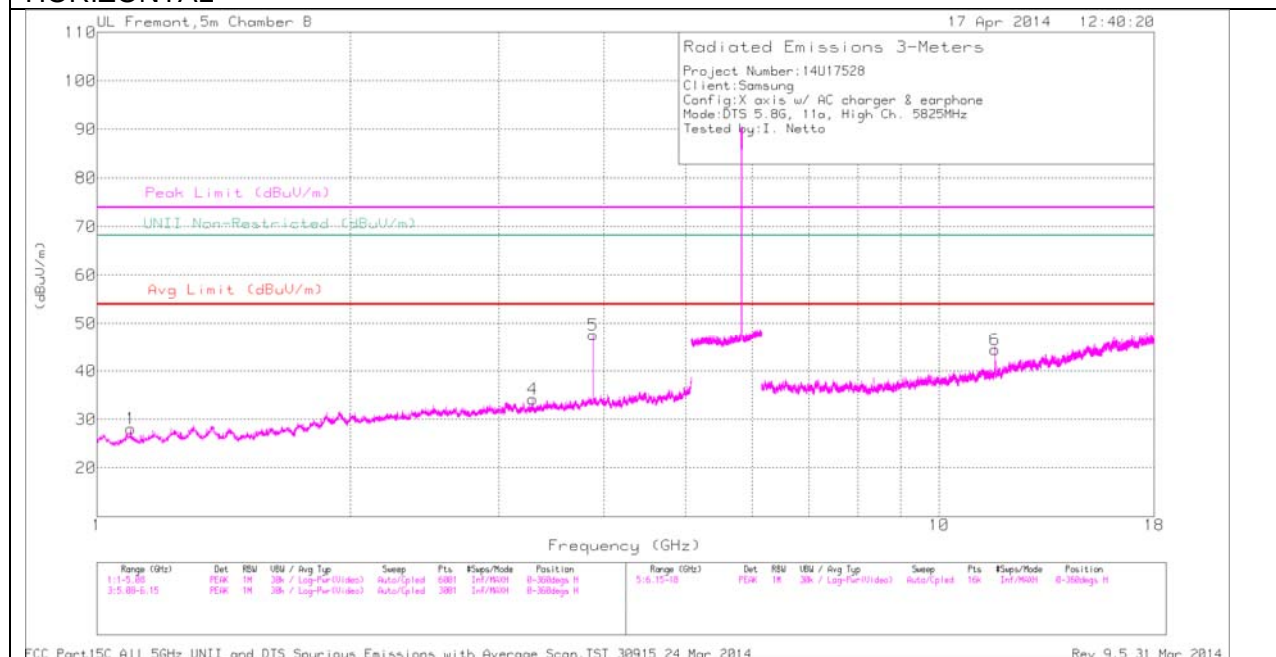
PK - Peak detector

Radiated Emissions

Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Ampl/Cbl/ Ftr/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non- Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.556	43.08	PK2	28.2	-33.7	0	37.58	-	-	74	-36.42	-	-	1	100	H
* 3.857	52.1	PK2	33.7	-31.4	0	54.4	-	-	74	-19.6	-	-	33	281	H
* 3.857	49.9	MAv1	33.7	-31.4	.3	52.4	54	-1.6	-	-	-	-	33	281	H
* 1.297	43.62	PK2	28.8	-34.3	0	38.12	-	-	74	-35.88	-	-	1	100	V
* 2.727	40.96	PK2	32.2	-31.9	0	41.26	-	-	74	-32.74	-	-	1	100	V
* 2.727	25.75	PK2	32.2	-31.9	0	26.05	-	-	74	-47.95	-	-	1	100	V
* 11.57	39.92	PK2	38.1	-22.7	0	55.32	-	-	74	-18.68	-	-	146	181	V
* 11.57	29.08	MAv1	38.1	-22.7	.3	44.68	54	-9.32	-	-	-	-	146	181	V
1.947	41.77	PK2	31.2	-32.5	0	40.47	-	-	-	-	68.2	-27.73	1	100	H

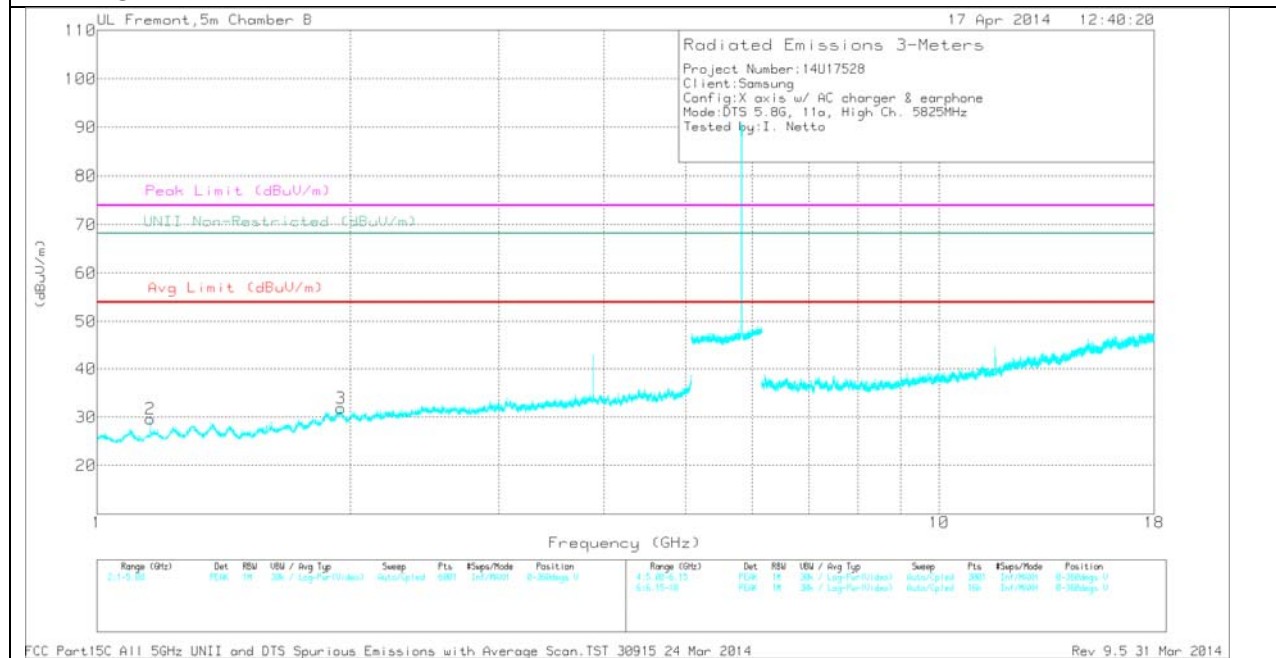
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

HIGH CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	AmplCbl/ Ftr/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non- Restrict ed (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.097	35.16	PK	27.4	-34.4	0	28.16	-	-	74	-45.84	-	-	0-360	202	H
5	* 3.883	45.53	PK	33.8	-31.7	0	47.63	-	-	74	-26.37	-	-	0-360	202	H
2	* 1.157	36.57	PK	27.8	-34.7	0	29.67	-	-	74	-44.33	-	-	0-360	203	V
6	* 11.655	29.44	PK	38.2	-23.2	0	44.44	-	-	74	-29.56	-	-	0-360	202	H
3	1.949	33.21	PK	31.2	-32.5	0	31.91	-	-	-	-	68.2	-36.29	0-360	203	V
4	3.29	33.12	PK	32.8	-31.7	0	34.22	-	-	-	-	68.2	-33.98	0-360	202	H

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

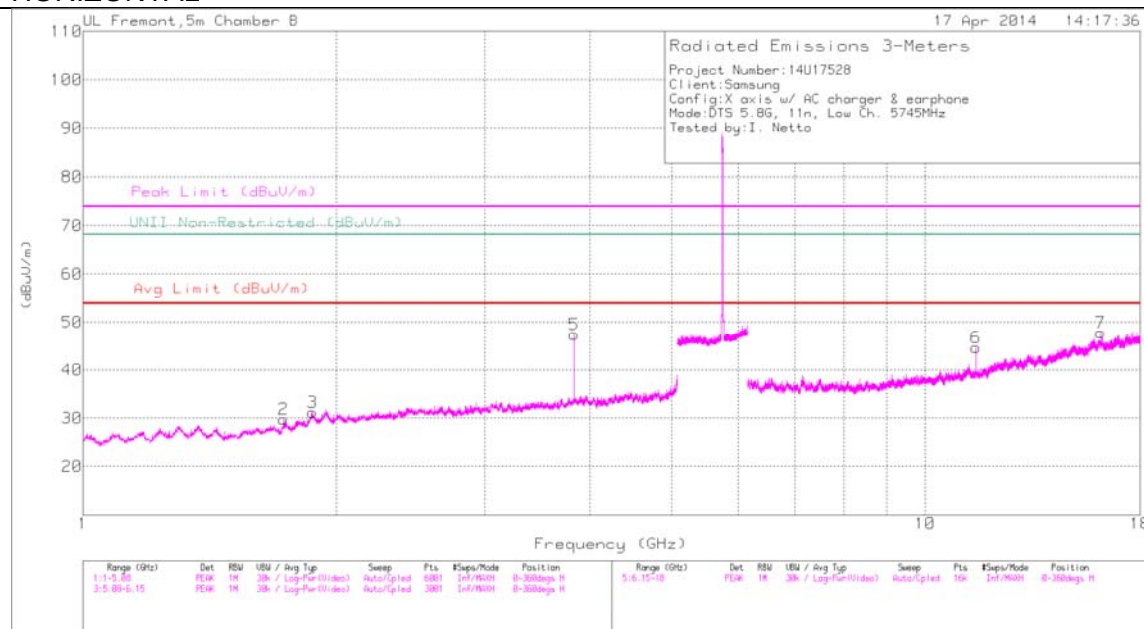
PK - Peak detector
Radiated Emissions

Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	AmplCbl/ Ftr/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non- Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.097	43.28	PK2	27.4	-34.4	0	36.28	-	-	74	-37.72	-	-	1	100	H
* 3.883	49.75	PK2	33.8	-31.7	0	51.85	-	-	74	-22.15	-	-	93	238	H
* 3.883	47.05	MAv1	33.8	-31.7	.3	49.35	54	-4.65	-	-	-	-	93	238	H
* 1.157	27.67	Avg	27.8	-34.7	0	20.77	54	-33.23	-	-	-	-	1	100	V
* 11.656	41.3	PK2	38.2	-23.2	0	56.3	-	-	74	-17.7	-	-	83	198	H
* 11.655	30.06	MAv1	38.2	-23.2	.3	45.26	54	-8.74	-	-	-	-	83	198	H
3.29	40.68	PK2	32.8	-31.7	0	41.78	-	-	-	-	68.2	-26.42	1	100	H

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

10.2.5. TX ABOVE 1 GHz 802.11n HT20 CDD MODE IN THE 5.8 GHz BAND HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL

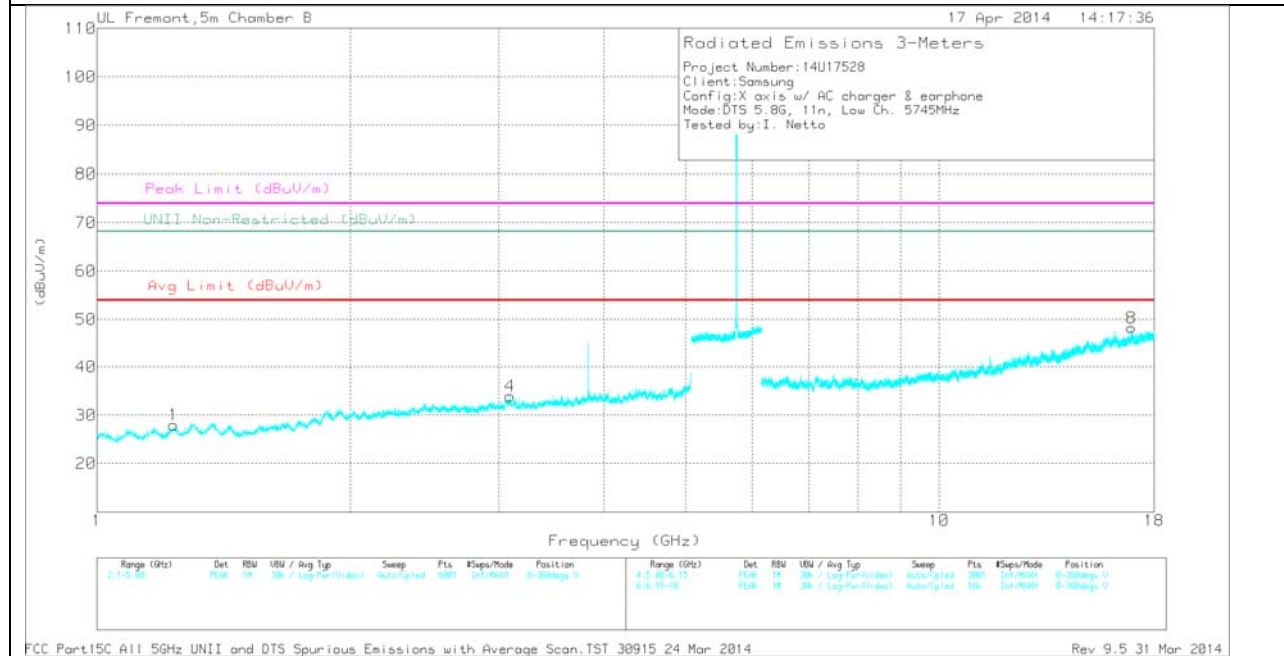


FCC Part 15C All 5GHz UNII and DTS Spurious Emissions with Average Scan.TST 30915 24 Mar 2014

Rev 9.5 31 Mar 2014

Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Ampl/Cbl/ Ftr/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non- Restrict ed (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 3.83	44.77	PK	33.7	-31	0	47.47	-	-	74	-26.53	-	-	0-360	99	H
1	* 1.233	34.25	PK	28.4	-34.7	0	27.95	-	-	74	-46.05	-	-	0-360	202	V
6	* 11.491	29.78	PK	38	-23	0	44.78	-	-	74	-29.22	-	-	0-360	201	H
7	* 16.157	26.6	PK	41	-19.7	0	47.9	-	-	74	-26.1	-	-	0-360	99	H
2	1.73	33.94	PK	29.4	-33.5	0	29.84	-	-	-	-	68.2	-38.36	0-360	99	H
3	1.872	33.58	PK	30.8	-33.1	0	31.28	-	-	-	-	68.2	-36.92	0-360	99	H
4	3.092	32.95	PK	32.9	-31.9	0	33.95	-	-	-	-	68.2	-34.25	0-360	202	V
8	16.913	26.49	PK	41.4	-19.7	0	48.19	-	-	-	-	68.2	-20.01	0-360	202	V

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

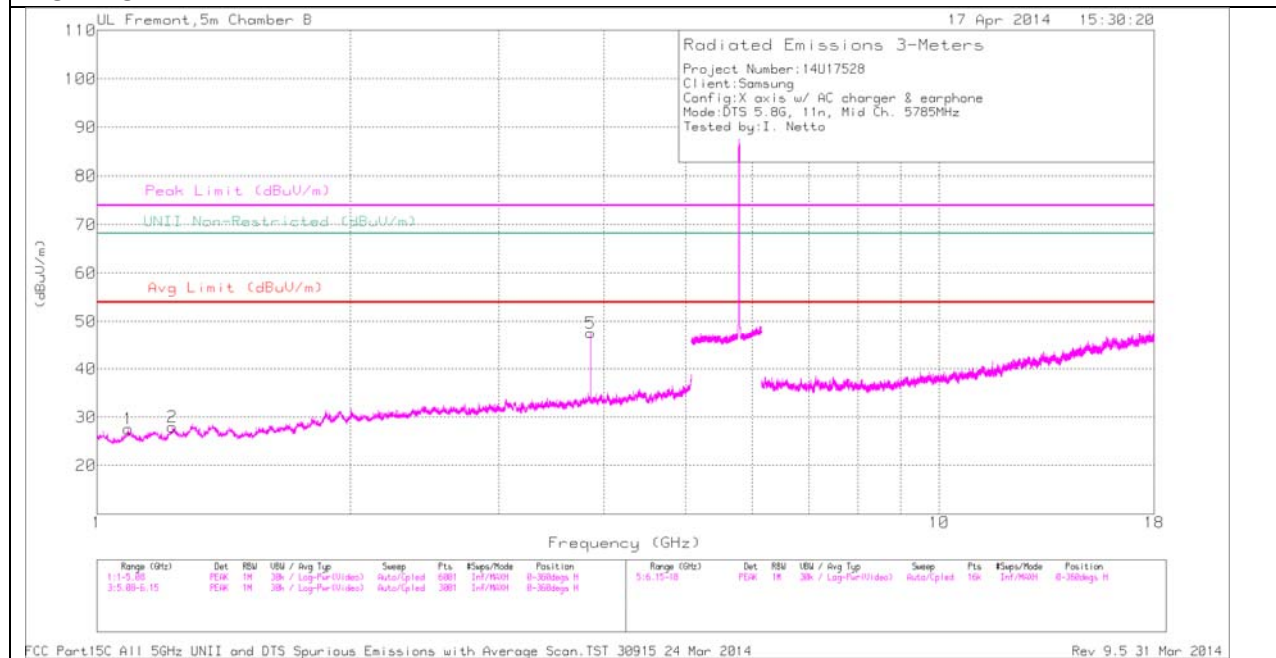
PK - Peak detector

Radiated Emissions

Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Ampl/Cbl/ Ftr/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non- Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.83	51.65	PK2	33.7	-31	0	54.35	-	-	74	-19.65	-	-	11	283	H
* 3.83	49.23	MAV1	33.7	-31	.62	52.23	54	-1.77	-	-	-	-	11	283	H
* 1.235	43.29	PK2	28.4	-34.7	0	36.99	-	-	74	-37.01	-	-	1	100	V
* 16.158	33.71	PK2	41	-19.8	0	54.91	-	-	74	-19.09	-	-	1	100	H
* 11.486	36.86	PK2	38	-23	0	51.86	-	-	74	-22.14	-	-	19	240	H
* 11.487	24.9	MAV1	38	-23	.62	40.2	54	-13.8	-	-	-	-	19	240	H
* 16.156	33.99	PK2	41	-19.7	0	55.29	-	-	74	-18.71	-	-	84	249	H
* 16.155	24.5	MAV1	41	-19.7	.62	46.1	54	-7.9	-	-	-	-	84	249	H
1.732	41.5	PK2	29.4	-33.4	0	37.5	-	-	-	-	68.2	-30.7	1	100	H
1.873	42.37	PK2	30.8	-33.1	0	40.07	-	-	-	-	68.2	-28.13	1	100	H
3.091	40.94	PK2	32.9	-31.9	0	41.94	-	-	-	-	68.2	-26.26	1	100	V
16.912	33	PK2	41.4	-19.7	0	54.7	-	-	-	-	68.2	-13.5	186	195	V
16.912	23.69	MAV1	41.4	-19.8	.62	45.59	54	-8.41	-	-	-	-	186	195	V

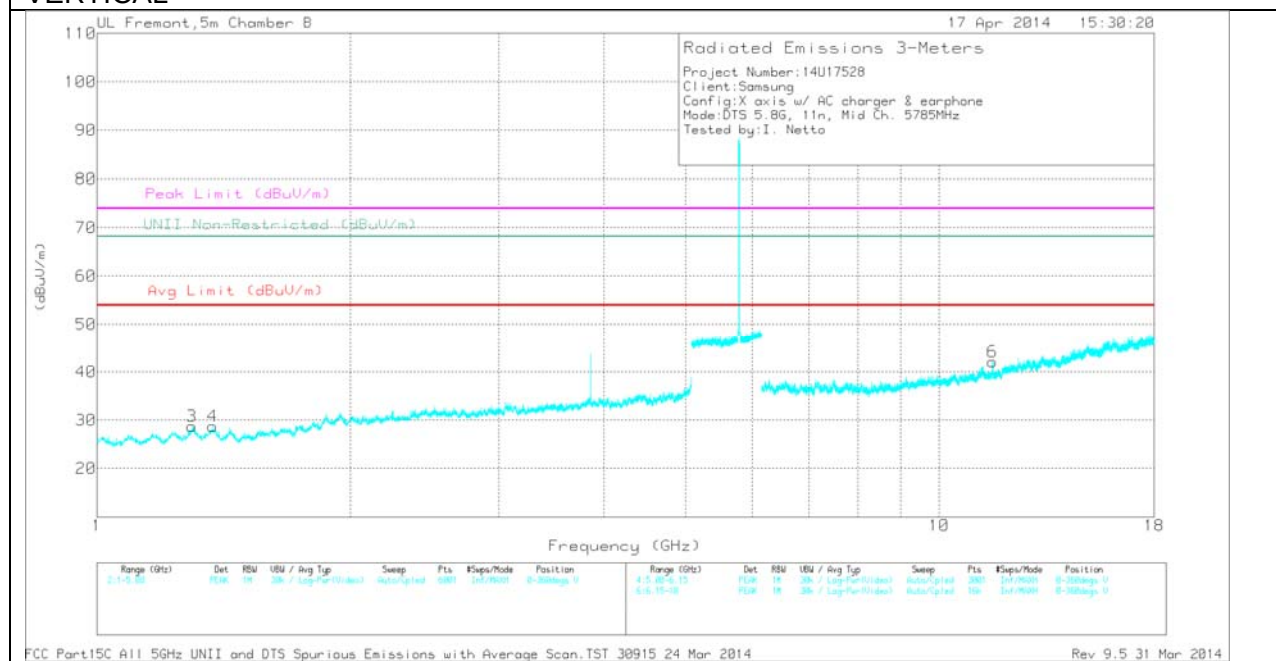
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

MID CHANNEL
HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL
VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Ampl/Cbl/ Ftr/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non- Restrict ed (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.09	34.73	PK	27.3	-34.4	0	27.63	-	-	74	-46.37	-	-	0-360	99	H
2	* 1.23	34.24	PK	28.4	-34.7	0	27.94	-	-	74	-46.06	-	-	0-360	99	H
5	* 3.857	45.28	PK	33.7	-31.4	0	47.58	-	-	74	-26.42	-	-	0-360	99	H
3	* 1.296	34.2	PK	28.8	-34.3	0	28.7	-	-	74	-45.3	-	-	0-360	202	V
4	* 1.373	33.93	PK	28.6	-33.8	0	28.73	-	-	74	-45.27	-	-	0-360	99	V
6	* 11.573	26.7	PK	38.1	-22.7	0	42.1	-	-	74	-31.9	-	-	0-360	202	V

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

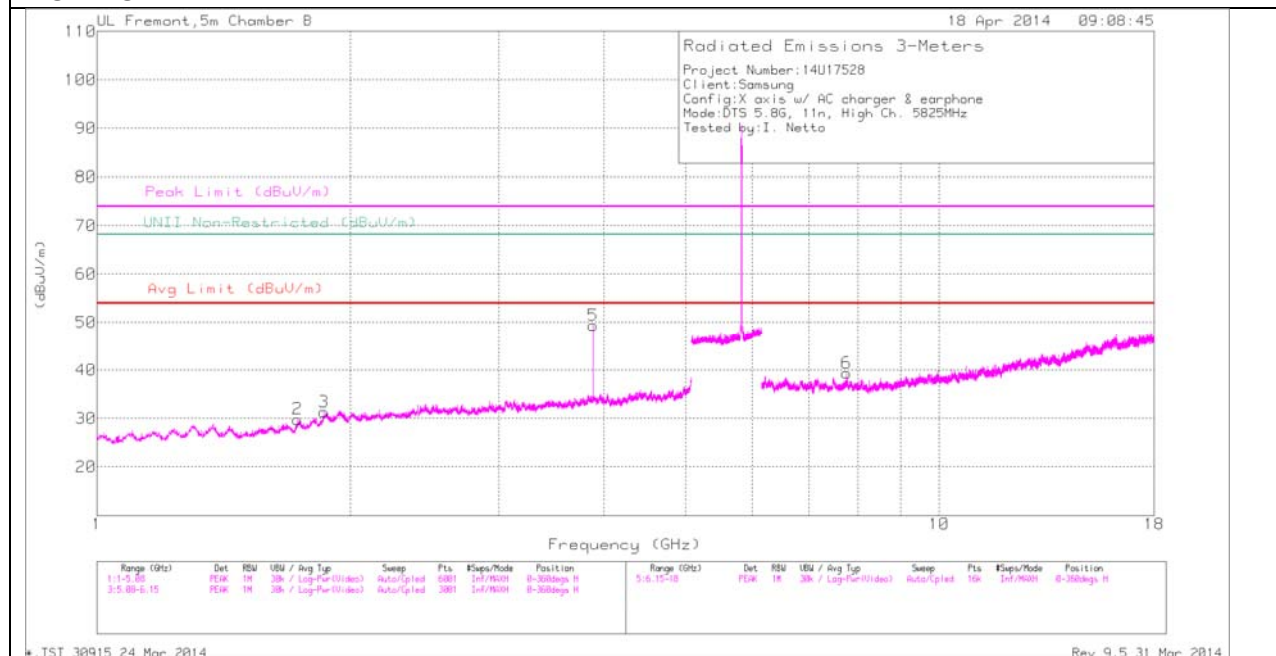
PK - Peak detector

Radiated Emissions

Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Ampl/Cbl/F tr/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non- Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.09	43.49	PK2	27.3	-34.4	0	36.39	-	-	74	-37.61	-	-	359	100	H
* 1.228	42.88	PK2	28.4	-34.7	0	36.58	-	-	74	-37.42	-	-	359	100	H
* 3.857	51.74	PK2	33.7	-31.4	0	54.04	-	-	74	-19.96	-	-	35	247	H
* 3.857	49.74	MAv1	33.7	-31.4	.62	52.34	54	-1.66	-	-	-	-	35	247	H
* 1.297	42.65	PK2	28.8	-34.3	0	37.15	-	-	74	-36.85	-	-	359	100	V
* 1.375	42.91	PK2	28.6	-33.8	0	37.71	-	-	74	-36.29	-	-	359	100	V
* 11.571	36.21	PK2	38.1	-22.7	0	51.61	-	-	74	-22.39	-	-	152	251	V
* 11.571	25.39	MAv1	38.1	-22.7	.62	41.09	54	-12.91	-	-	-	-	152	251	V

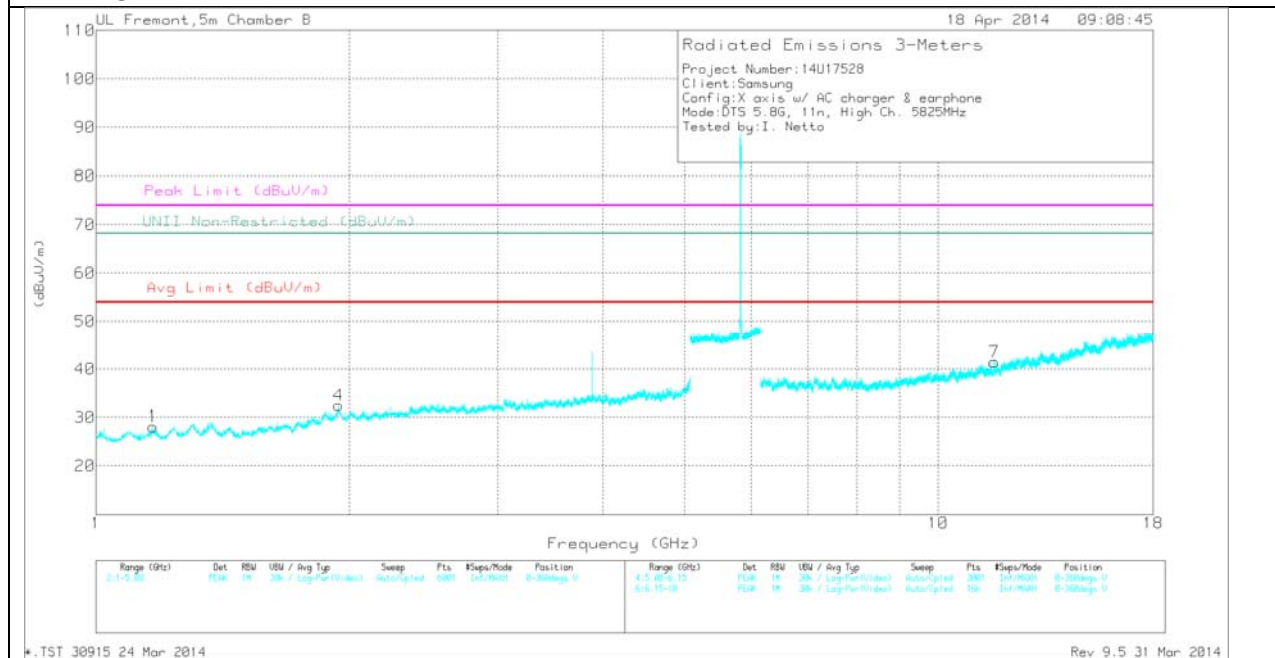
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

HIGH CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 3.883	47.32	PK	33.8	-31.7	49.42	-	-	74	-24.58	-	-	0-360	99	H
1	* 1.169	34.97	PK	27.9	-34.7	28.17	-	-	74	-45.83	-	-	0-360	99	V
7	* 11.658	26.5	PK	38.2	-23.2	41.5	-	-	74	-32.5	-	-	0-360	99	V
2	1.731	33.86	PK	29.4	-33.4	29.86	-	-	-	-	68.2	-38.34	0-360	99	H
3	1.86	33.86	PK	30.7	-33.2	31.36	-	-	-	-	68.2	-36.84	0-360	99	H
4	1.943	33.8	PK	31.2	-32.5	32.5	-	-	-	-	68.2	-35.7	0-360	99	V
6	7.767	30.32	PK	35.7	-26.6	39.42	-	-	-	-	68.2	-28.78	0-360	99	H

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

PK - Peak detector

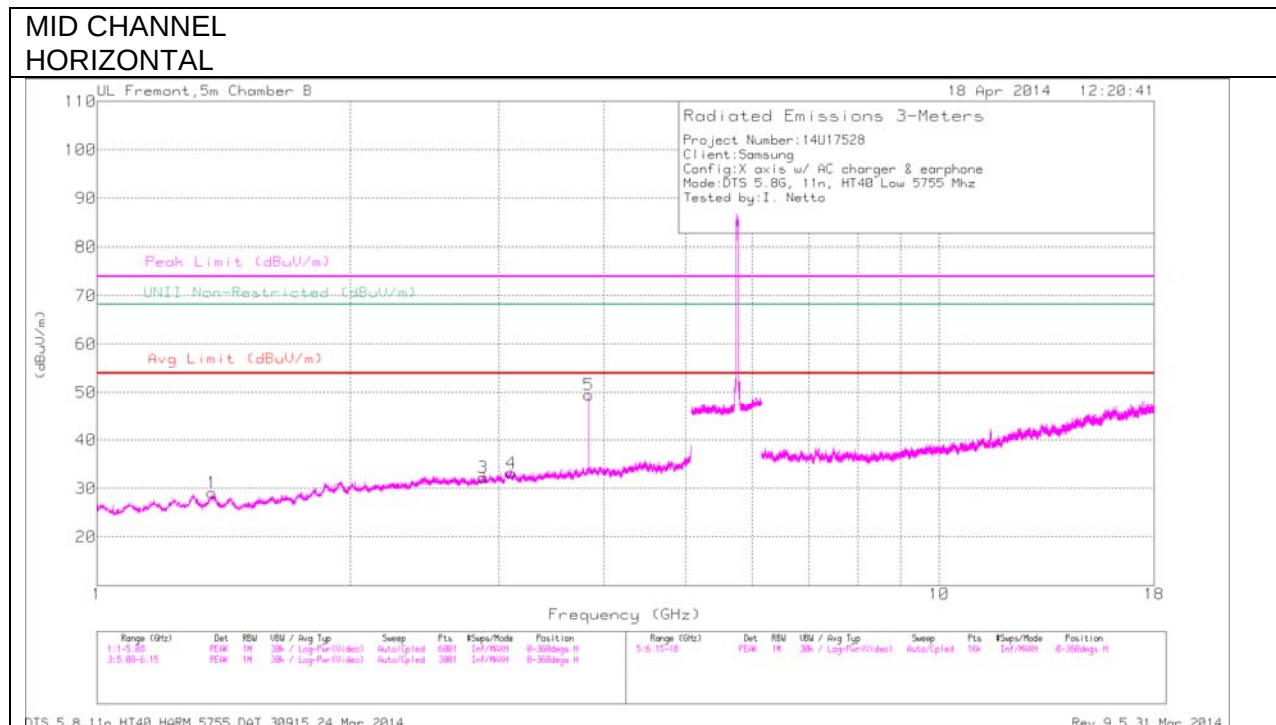
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.883	51.46	PK2	33.8	-31.7	53.56	-	-	74	-20.44	-	-	212	270	H
* 3.883	48.9	MAV1	33.8	-31.7	51	54	-3	-	-	-	-	212	270	H
* 1.167	43.2	PK2	27.9	-34.7	36.4	-	-	74	-37.6	-	-	1	100	V
* 11.659	34.73	PK2	38.2	-23.2	49.73	-	-	74	-24.27	-	-	1	100	V
1.73	42.2	PK2	29.4	-33.5	38.1	-	-	-	-	68.2	-30.1	1	100	H
1.861	42.3	PK2	30.7	-33.2	39.8	-	-	-	-	68.2	-28.4	1	100	H
1.945	42.27	PK2	31.2	-32.5	40.97	-	-	-	-	68.2	-27.23	1	100	V
7.766	37	PK2	35.7	-26.6	46.1	-	-	-	-	68.2	-22.1	1	100	H

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

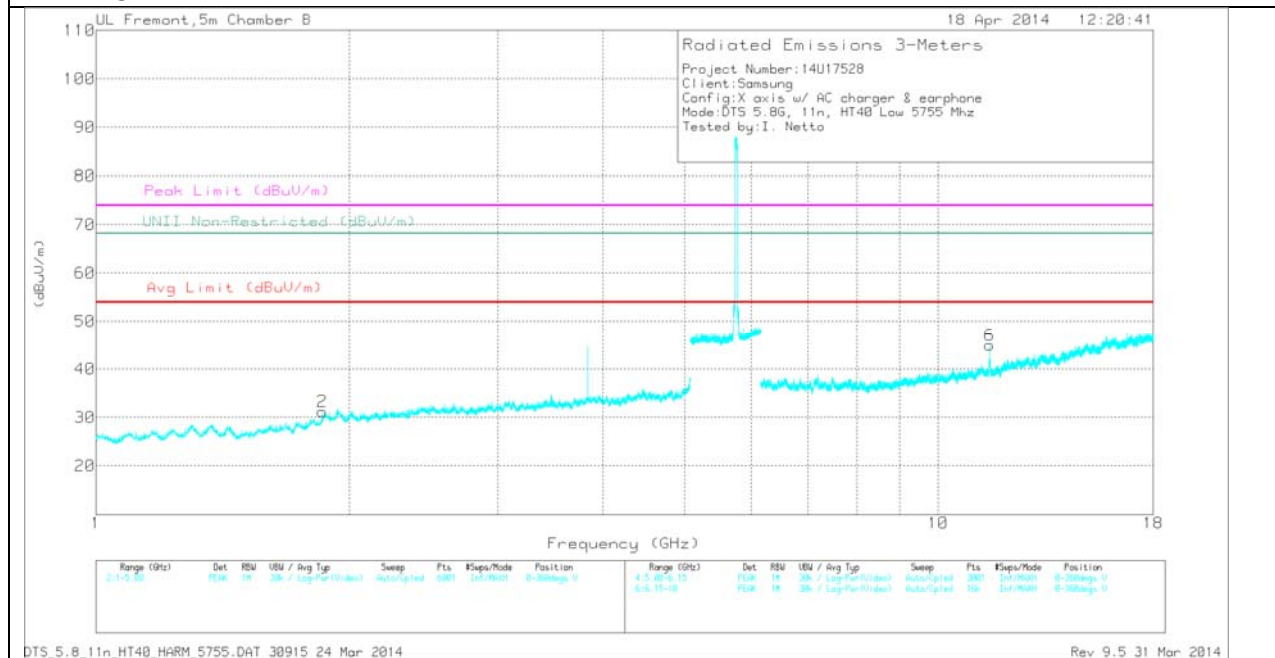
10.2.6. TX ABOVE 1 GHz 802.11n HT40 CDD MODE IN THE 5.8 GHz BAND

HARMONICS AND SPURIOUS EMISSIONS



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL
VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Ampl/Cbl/ Ftr/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non- Restrict ed (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.371	34.38	PK	28.6	-33.8	0	29.18	-	-	74	-44.82	-	-	0-360	99	H
3	* 2.875	31.74	PK	32.6	-32.1	0	32.24	-	-	74	-41.76	-	-	0-360	202	H
5	* 3.837	46.94	PK	33.7	-31.1	0	49.54	-	-	74	-24.46	-	-	0-360	99	H
6	* 11.51	29.75	PK	38.1	-22.9	0	44.95	-	-	74	-29.05	-	-	0-360	202	V
2	1.858	33.85	PK	30.7	-33.3	0	31.25	-	-	-	-	68.2	-36.95	0-360	99	V
4	3.103	32.39	PK	32.9	-32.1	0	33.19	-	-	-	-	68.2	-35.01	0-360	99	H

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

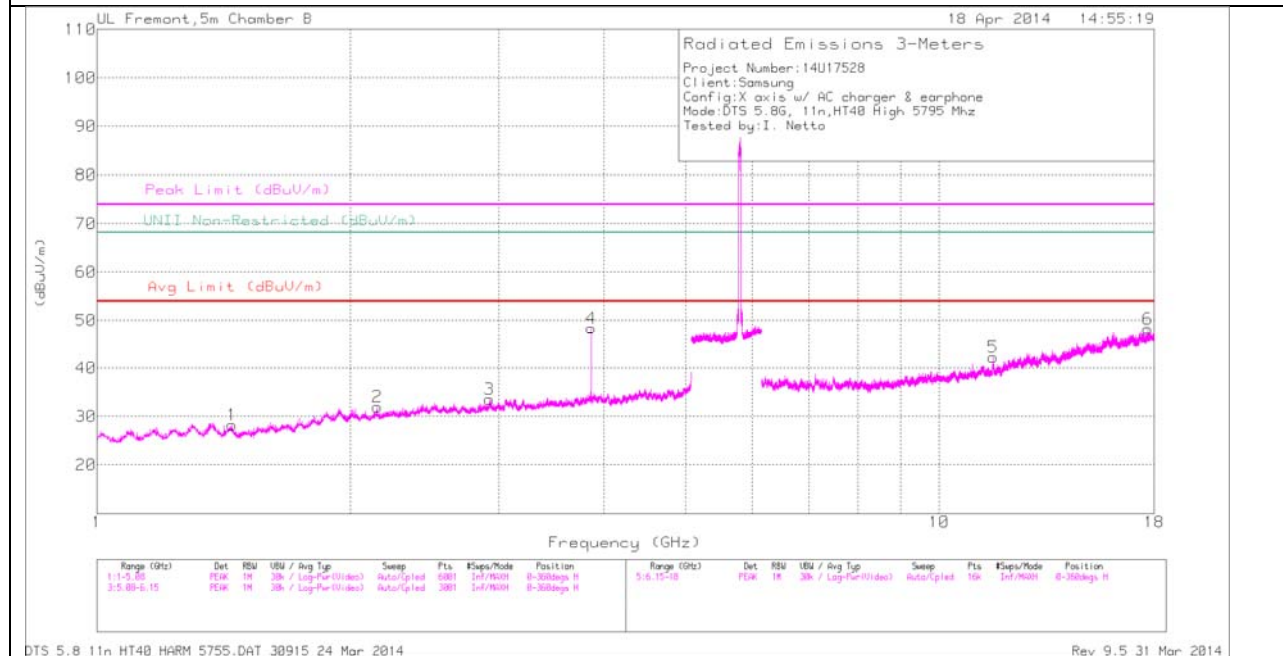
PK - Peak detector

Radiated Emissions

Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Ampl/Cbl/ Ftr/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non- Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.368	42.91	PK2	28.6	-33.8	0	37.71	-	-	74	-36.29	-	-	2	100	H
* 3.837	49.36	PK2	33.7	-31.1	0	51.96	-	-	74	-22.04	-	-	260	242	H
* 2.876	40.77	PK2	32.6	-32	0	41.37	-	-	74	-32.63	-	-	260	242	H
* 3.837	52.92	PK2	33.7	-31.1	0	55.52	-	-	74	-18.48	-	-	195	249	H
* 3.837	49.73	MAv1	33.7	-31.1	1.1	53.0	54	-1	-	-	-	-	195	249	H
* 11.51	38.71	PK2	38.1	-22.9	0	53.91	-	-	74	-20.09	-	-	305	237	V
* 11.51	27.18	MAv1	38.1	-22.9	1.1	43.03	54	-10.97	-	-	-	-	305	237	V
1.86	40.97	PK2	30.7	-33.2	0	38.47	-	-	-	-	68.2	-29.73	2	100	V
3.041	40.93	PK2	32.8	-32.3	0	41.43	-	-	-	-	68.2	-26.77	2	100	H

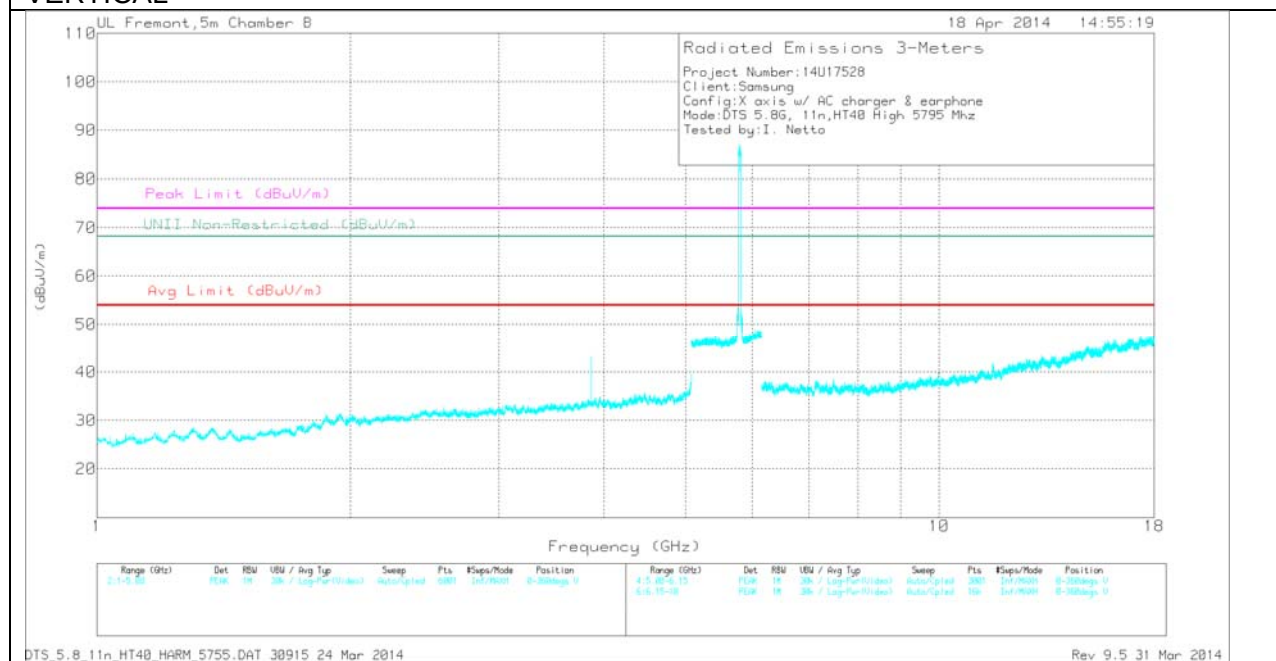
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

HIGH CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Ampl/Cbl/ Ftr/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non- Restrict ed (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.448	34.29	PK	28.2	-34.2	0	28.29	-	-	74	-45.71	-	-	0-360	202	H
4	* 3.863	46.12	PK	33.7	-31.5	0	48.32	-	-	74	-25.68	-	-	0-360	99	H
5	* 11.584	26.91	PK	38.1	-22.8	0	42.21	-	-	74	-31.79	-	-	0-360	201	H
2	2.151	33.36	PK	31.3	-32.7	0	31.96	-	-	-	-	68.2	-36.24	0-360	99	H
3	2.924	32.71	PK	32.7	-31.8	0	33.61	-	-	-	-	68.2	-34.59	0-360	99	H
6	17.684	25.41	PK	41.5	-18.7	0	48.21	-	-	-	-	68.2	-19.99	0-360	201	H

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

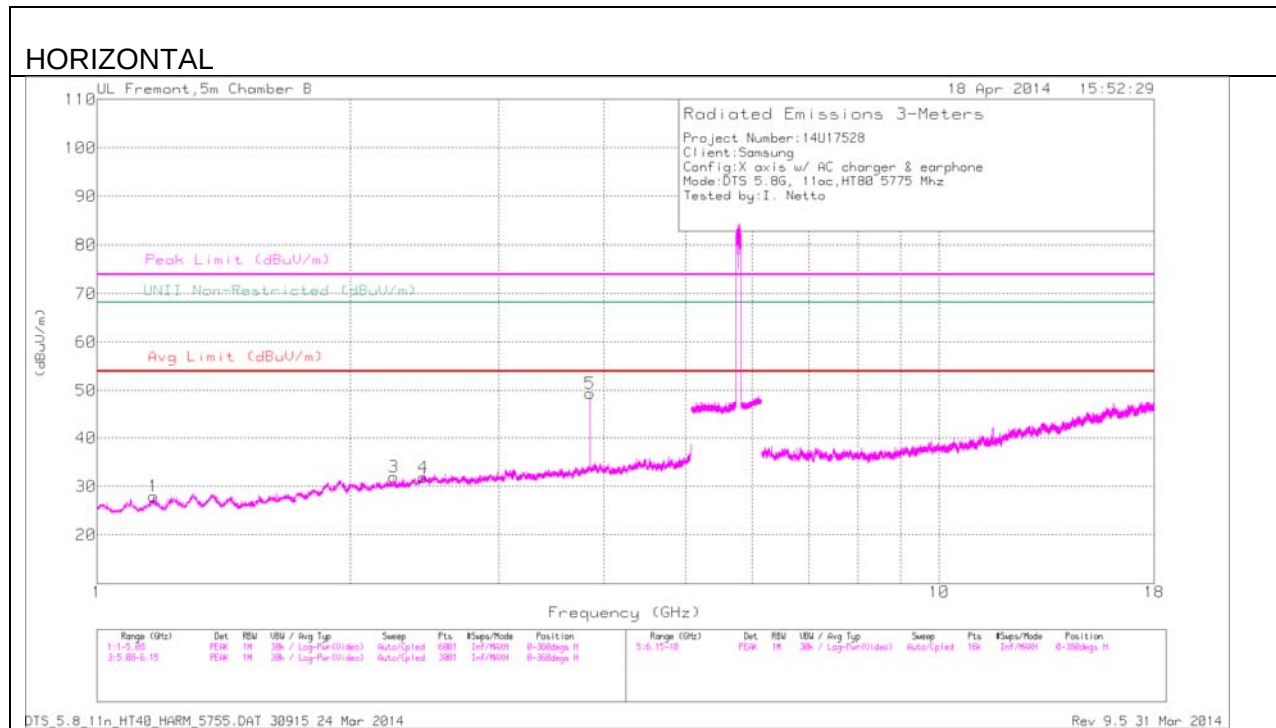
PK - Peak detector

Radiated Emissions

Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Ampl/Cbl/ Ftr/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non- Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.449	42	PK2	28.2	-34.2	0	36	-	-	74	-38	-	-	360	100	H
* 3.863	51	PK2	33.7	-31.5	0	53.2	-	-	74	-20.8	-	-	207	244	H
* 3.863	47.45	MAV1	33.7	-31.5	1.1	50.3	54	-3.6	-	-	-	-	207	244	H
* 11.584	35.95	PK2	38.1	-22.8	0	51.25	-	-	74	-22.75	-	-	204	203	H
2.151	41.47	PK2	31.3	-32.7	0	40.07	-	-	-	-	68.2	-28.13	360	100	H
2.926	41.91	PK2	32.7	-31.7	0	42.91	-	-	-	-	68.2	-25.29	360	100	H
17.684	32.75	PK2	41.5	-18.7	0	55.55	-	-	-	-	68.2	-12.65	204	203	H

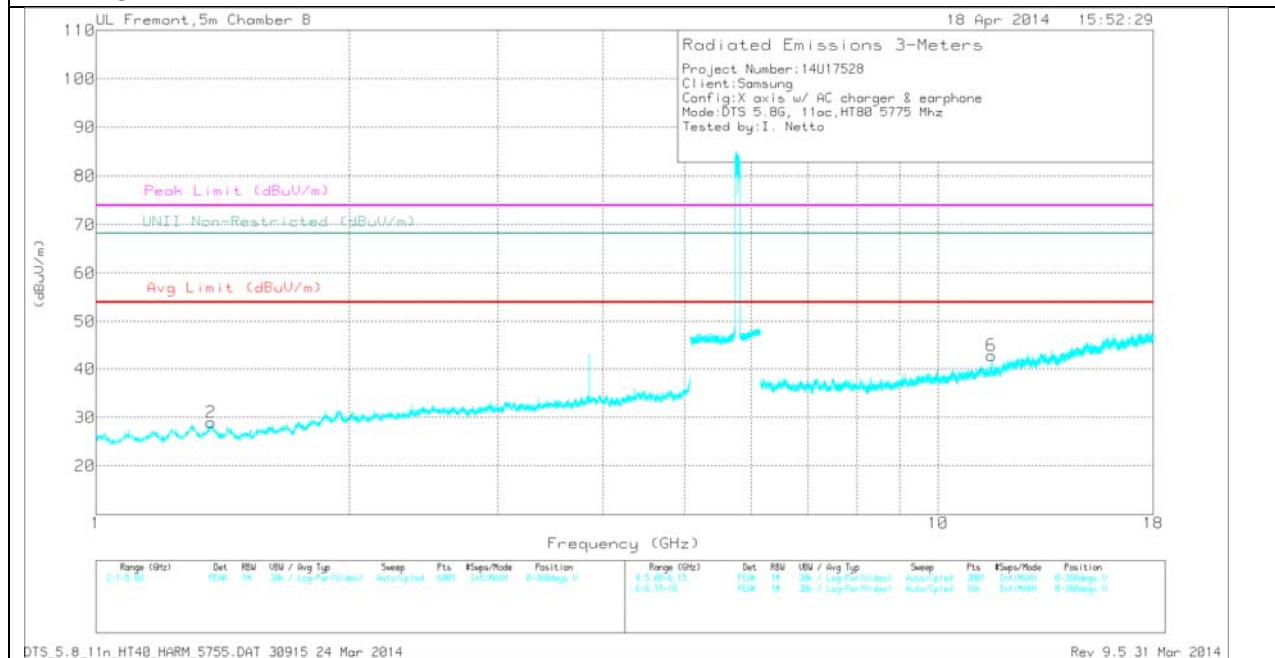
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

10.2.7. TX ABOVE 1 GHz 802.11ac HT80 CDD MODE IN THE 5.8 GHz BAND HARMONICS AND SPURIOUS EMISSIONS



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

CHANNEL DATA

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Ampl/Cbl/ Ftr/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non- Restrict ed (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.168	34.73	PK	27.9	-34.7	0	27.93	-	-	74	-46.07	-	-	0-360	202	H
3	* 2.251	33.03	PK	31.5	-32.5	0	32.03	-	-	74	-41.97	-	-	0-360	99	H
5	* 3.85	46.99	PK	33.7	-31.3	0	49.39	-	-	74	-24.61	-	-	0-360	99	H
2	* 1.371	34.16	PK	28.6	-33.8	0	28.96	-	-	74	-45.04	-	-	0-360	202	V
6	* 11.564	27.54	PK	38.1	-22.8	0	42.84	-	-	74	-31.16	-	-	0-360	202	V
4	2.44	31.76	PK	32.3	-32.2	0	31.86	-	-	-	-	68.2	-36.34	0-360	202	H

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

PK - Peak detector

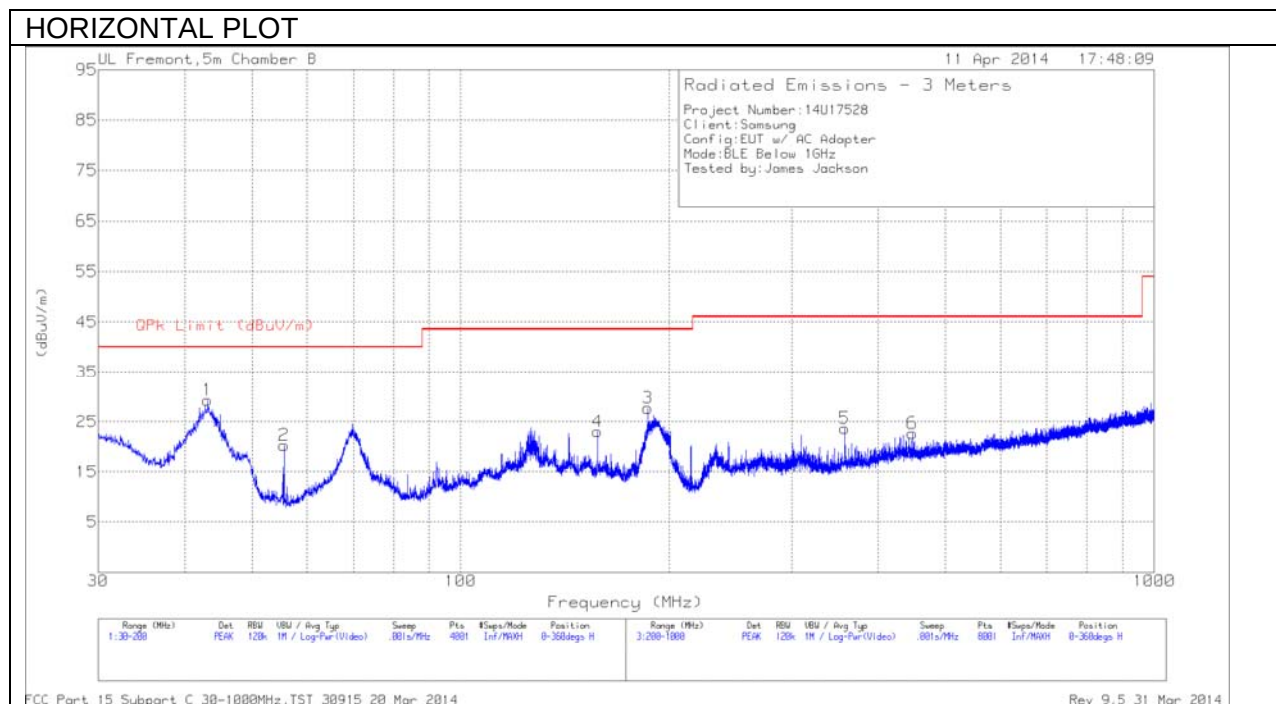
Radiated Emissions

Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Ampl/Cbl/ Ftr/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non- Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.169	43.08	PK2	27.9	-34.7	0	36.28	-	-	74	-37.72	-	-	359	100	H
* 2.249	40.75	PK2	31.5	-32.5	0	39.75	-	-	74	-34.25	-	-	359	100	H
* 3.85	51.94	PK2	33.7	-31.3	0	54.34	-	-	74	-19.66	-	-	196	246	H
* 3.85	46.15	MAv1	33.7	-31.3	1.89	50.32	54	-3.68	-	-	-	-	196	246	H
* 1.37	42.5	PK2	28.6	-33.8	0	37.3	-	-	74	-36.7	-	-	359	100	V
* 11.565	33.94	PK2	38.1	-22.8	0	49.24	-	-	74	-24.76	-	-	359	100	V
2.441	41.51	PK2	32.3	-32.2	0	41.61	-	-	-	-	68.2	-26.59	359	100	H

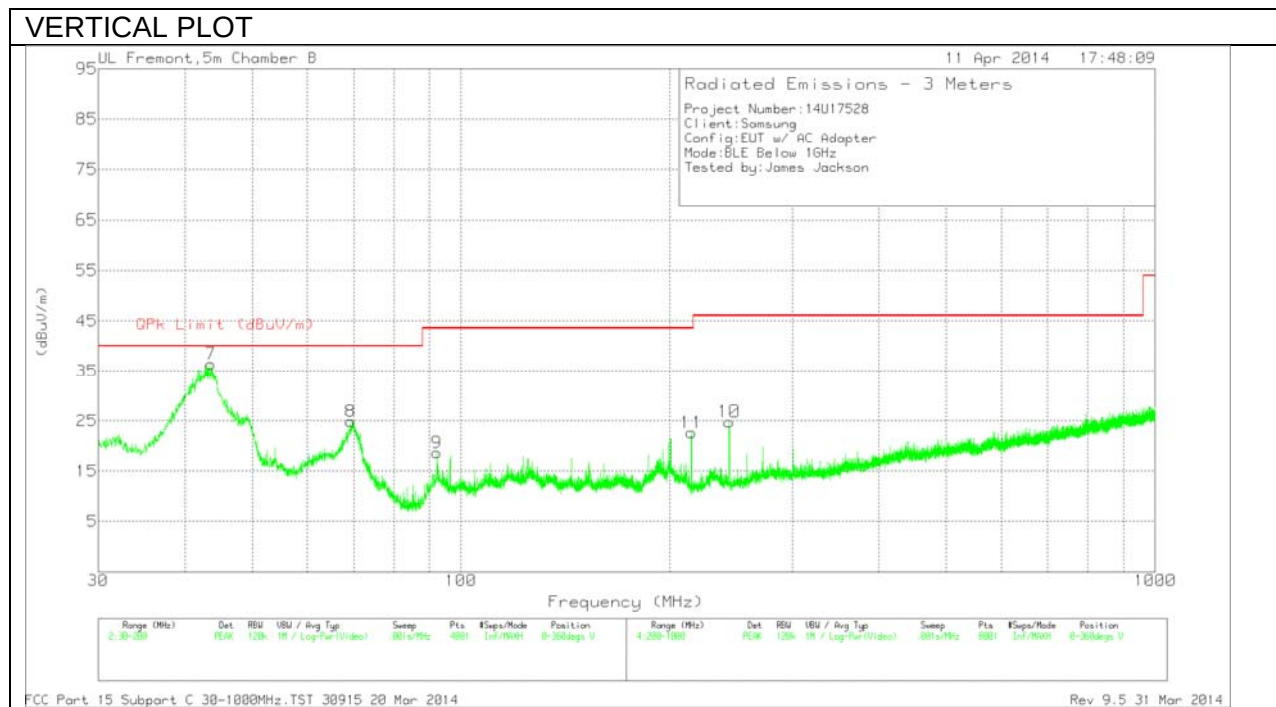
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

10.3. WORST-CASE BELOW 1 GHz

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



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



Below 1G 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
10	* 243.4	39.8	PK	11.5	-26.5	24.8	46.02	-21.22	0-360	200	V
1	43.175	46.71	PK	11.3	-28.7	29.31	40	-10.69	0-360	300	H
7	43.6425	54.14	PK	11	-28.7	36.44	40	-3.56	0-360	101	V
2	55.6275	41.93	PK	7	-28.6	20.33	40	-19.67	0-360	300	H
8	69.3125	45.18	PK	8.1	-28.4	24.88	40	-15.12	0-360	101	V
9	92.3475	38.53	PK	8.2	-28.1	18.63	43.52	-24.89	0-360	101	V
4	157.5	38.12	PK	12.3	-27.4	23.02	43.52	-20.5	0-360	200	H
3	186.1025	43.52	PK	11.3	-27.1	27.72	43.52	-15.8	0-360	100	H
11	214.8	39.04	PK	10.4	-26.8	22.64	43.52	-20.88	0-360	200	V
5	357.9	34.77	PK	14.7	-25.8	23.67	46.02	-22.35	0-360	200	H
6	448	31.9	PK	16.8	-26	22.7	46.02	-23.32	0-360	101	H

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