



FCC 47 CFR PART 15 SUBPART E

CERTIFICATION TEST REPORT

FOR

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

MODEL NUMBER: T805C

FCC ID: A3LSMT805C

REPORT NUMBER: 14U17722-5 REVISION B

ISSUE DATE: JUNE 5, 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
--	05/27/14	Initial Issue	P. Zhang
A	6/5/14	Updated antenna information	P. Zhang
B	6/10/14	Updated table of contents	P. Zhang

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS	6
2. TEST METHODOLOGY	7
3. FACILITIES AND ACCREDITATION	7
4. CALIBRATION AND UNCERTAINTY	7
4.1. MEASURING INSTRUMENT CALIBRATION	7
4.2. SAMPLE CALCULATION	7
4.3. MEASUREMENT UNCERTAINTY.....	7
5. EQUIPMENT UNDER TEST	8
5.1. DESCRIPTION OF EUT	8
5.2. MAXIMUM OUTPUT POWER.....	8
5.3. DESCRIPTION OF AVAILABLE ANTENNAS	11
5.4. WORST-CASE CONFIGURATION AND MODE	14
5.5. DESCRIPTION OF TEST SETUP.....	15
6. TEST AND MEASUREMENT EQUIPMENT	17
7. SUMMARY TABLE	18
8. ON TIME, DUTY CYCLE AND MEASUREMENT METHODS	19
8.1. ON TIME AND DUTY CYCLE RESULTS.....	19
8.2. DUTY CYCLE PLOTS	19
9. MEASUREMENT METHOD.....	22
10. ANTENNA PORT TEST RESULTS	23
10.1. 26 dB BANDWIDTH	23
10.1.1. 802.11a MODE IN THE 5.2 GHz BAND.....	23
10.1.2. 802.11n HT20 MODE IN THE 5.2 GHz BAND	23
10.1.3. 802.11n HT40 MODE IN THE 5.2 GHz BAND	23
10.1.4. 802.11ac HT80 MODE IN THE 5.2 GHz BAND	23
10.1.1. 802.11a MODE IN THE 5.3 GHz BAND.....	24
10.1.1. 802.11n HT20 MODE IN THE 5.3 GHz BAND	24
10.1.2. 802.11n HT40 MODE IN THE 5.3 GHz BAND	24
10.1.3. 802.11ac HT80 MODE IN THE 5.3 GHz BAND	24
10.1.4. 802.11a MODE IN THE 5.5 GHz BAND.....	25
10.1.5. 802.11n HT20 MODE IN THE 5.5 GHz BAND	25
10.1.6. 802.11n HT40 MODE IN THE 5.5 GHz BAND	25
10.1.7. 802.11ac HT80 MODE IN THE 5.5 GHz BAND	25
10.1.8. 802.11a MODE IN THE 5.8 GHz BAND.....	26
10.1.9. 802.11n HT20 MODE IN THE 5.8 GHz BAND	26
10.1.10. 802.11n HT40 MODE IN THE 5.8 GHz BAND	26
10.1.11. 802.11ac HT80 MODE IN THE 5.8 GHz BAND	26

10.1.12. Plots	27
10.2. 99% BANDWIDTH	43
10.2.1. 802.11a MODE IN THE 5.2 GHz BAND	43
10.2.2. 802.11n HT20 MODE IN THE 5.2 GHz BAND	43
10.2.3. 802.11n HT40 MODE IN THE 5.2 GHz BAND	43
10.2.4. 802.11ac HT80 MODE IN THE 5.2 GHz BAND	43
10.2.5. 802.11a MODE IN THE 5.3 GHz BAND	44
10.2.6. 802.11n HT20 MODE IN THE 5.3 GHz BAND	44
10.2.7. 802.11n HT40 MODE IN THE 5.3 GHz BAND	44
10.2.8. 802.11ac HT80 MODE IN THE 5.3 GHz BAND	44
10.2.9. 802.11a MODE IN THE 5.5 GHz BAND	45
10.2.10. 802.11n HT20 MODE IN THE 5.5 GHz BAND	45
10.2.11. 802.11n HT40 MODE IN THE 5.5 GHz BAND	45
10.2.12. 802.11ac HT80 MODE IN THE 5.5 GHz BAND	45
10.2.13. 802.11a MODE IN THE 5.8 GHz BAND	46
10.2.14. 802.11n HT20 MODE IN THE 5.8 GHz BAND	46
10.2.15. 802.11n HT40 MODE IN THE 5.8 GHz BAND	46
10.2.16. 802.11ac HT80 MODE IN THE 5.8 GHz BAND	46
10.2.17. Plots	47
10.3. OUTPUT POWER AND PPSD	63
10.3.1. 802.11a MODE IN THE 5.2 GHz BAND	64
10.3.2. 802.11n HT20 MODE IN THE 5.2 GHz BAND	65
10.3.3. 802.11n HT40 MODE IN THE 5.2 GHz BAND	66
10.3.4. 802.11ac HT80 MODE IN THE 5.2 GHz BAND	67
10.3.5. 802.11a MODE IN THE 5.3 GHz BAND	68
10.3.6. 802.11n HT20 MODE IN THE 5.3 GHz BAND	69
10.3.7. 802.11n HT40 MODE IN THE 5.3 GHz BAND	70
10.3.8. 802.11ac HT80 MODE IN THE 5.3 GHz BAND	71
10.3.9. 802.11a MODE IN THE 5.5 GHz BAND	72
10.3.10. 802.11n HT20 MODE IN THE 5.5 GHz BAND	73
10.3.11. 802.11n HT40 MODE IN THE 5.5 GHz BAND	74
10.3.12. 802.11ac HT80 MODE IN THE 5.5 GHz BAND	75
10.3.13. 802.11a MODE IN THE 5.8 GHz BAND	76
10.3.14. 802.11n HT20 MODE IN THE 5.8 GHz BAND	77
10.3.15. 802.11n HT40 MODE IN THE 5.8 GHz BAND	78
10.3.16. 802.11ac HT80 MODE IN THE 5.8 GHz BAND	79
10.3.17. Plots	80
10.4. PEAK EXCURSION	96
10.4.1. 802.11a MODE IN THE 5.2 GHz BAND	96
10.4.1. 802.11n HT20 MODE IN THE 5.2 GHz BAND	98
10.4.1. 802.11n HT40 MODE IN THE 5.2 GHz BAND	100
10.4.1. 802.11ac HT80 MODE IN THE 5.2 GHz BAND	102
11. TRANSMITTER ABOVE 1 GHz.....	104
11.1. 5.2 GHz.....	105
11.1.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.2 GHz BAND	105
11.1.2. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.2 GHz BAND.....	116
11.1.3. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.2 GHz BAND.....	127
11.1.4. TX ABOVE 1 GHz 802.11ac HT80 MODE IN THE 5.2 GHz BAND.....	135
11.2. 5.3 GHz.....	140
11.2.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.3 GHz BAND	140

11.2.2.	TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.3 GHz BAND.....	151
11.2.4.	TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.3 GHz BAND.....	162
11.2.6.	TX ABOVE 1 GHz 802.11ac HT80 MODE IN THE 5.3 GHz BAND.....	170
11.3.	5.5-5.6 GHz.....	175
11.3.1.	TX ABOVE 1 GHz 802.11a MODE IN THE 5.5 GHz BAND	175
11.3.3.	TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.5 GHz BAND.....	188
11.3.5.	TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.5 GHz BAND.....	201
11.3.7.	TX ABOVE 1 GHz 802.11ac HT80 MODE IN THE 5.5 GHz BAND.....	214
11.4.	5.8 GHz.....	222
11.4.1.	TX ABOVE 1 GHz 802.11a MODE IN THE 5.8 GHz BAND	222
11.4.2.	TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.8 GHz BAND.....	235
11.4.3.	TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.8 GHz BAND.....	248
11.4.4.	TX ABOVE 1 GHz 802.11ac HT80 MODE IN THE 5.8 GHz BAND.....	258
12.	WORST-CASE BELOW 1 GHz (in the 5.3 GHz Band).....	265
13.	AC POWER LINE CONDUCTED EMISSIONS.....	268
14.	SETUP PHOTOS.....	272

1. ATTESTATION OF TEST RESULTS

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

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

MODEL: SM-T805C

Serial Number: FL-169-D (Conducted), FL-169-A, FL-169-B, FL-169-C (Radiated)

DATE TESTED: MAY 9 – 27, 2014

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart E	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:



PENG ZHANG
CONSUMER TECHNOLOGY DIVISION
PROJECT LEAD
UL Verification Services Inc.

Tested By:



STEVEN TRAN
CONSUMER TECHNOLOGY DIVISION
TEST 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 C63.10-2009. KDB for 802.11 AC: 644545 D02 Alternative Guidance for 802.11ac v01; 644545 D01 Guidance for IEEE 802.11ac v01r01.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, Fremont, California, USA. Line conducted emissions are measured only at the 47173 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

47173 Benicia Street	47266 Benicia Street
☐ Chamber A	☐ Chamber D
☒ Chamber B	☒ Chamber E
☐ Chamber C	☒ Chamber F

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://ts.nist.gov/standards/scopes/2000650.htm>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

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

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

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

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	3.52 dB
Radiated Disturbance, 30 to 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 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)
5180-5240	802.11a	13.06	20.23
5180-5240	802.11n HT20	13.21	20.94
5190-5230	802.11n HT40	13.78	23.88
5210	802.11ac HT80	16.72	46.99
5260-5320	802.11a	13.21	20.94
5260-5320	802.11n HT20	14.06	25.47
5270-5310	802.11n HT40	13.94	24.77
5290	802.11ac HT80	16.71	46.88
5500-5720	802.11a	13.39	21.83
5500-5720	802.11n HT20	13.57	22.75
5510-5710	802.11n HT40	13.8	23.99
5530-5690	802.11ac HT80	16.5	44.67
5745-5825	802.11a	12.75	18.84
5745-5825	802.11n HT20	13.43	22.03
5755-5795	802.11n HT40	13.97	24.95
5775	802.11ac HT80	16.86	48.53

The transmitter has average conducted output power as follows:

Band (GHz)	Mode	Mode	No. of Transmitters	Ch #	Freq. (MHz)	Avg Pwr (dBm)	
						Chain 0	Chain 1
5.2(UNII)	802.11a	6 Mbps	1 Tx	36	5180	8.9	
				40	5200	8.8	
				48	5240	8.9	
			1 Tx	36	5180		9.0
				40	5200		8.9
				48	5240		9.0
			2 Tx	36	5180	9.0	9.1
				40	5200	9.0	9.1
				48	5240	8.8	9.0
	802.11n(HT20)	MCS0	1 Tx	36	5180	9.0	
				40	5200	8.8	
				48	5240	8.7	
			1 Tx	36	5180		8.9
				40	5200		8.9
				48	5240		8.8
		MCS0	2 Tx	36	5180	9.0	8.8
				40	5200	8.8	9.0
				48	5240	8.8	8.8
	802.11n(HT40)	MCS0	1 Tx	38	5190	9.2	
				46	5230	9.1	
			1 Tx	38	5190		9.2
				46	5230		9.3
		MCS0	2 Tx	38	5190	9.2	9.3
				46	5230	9.2	9.4
	802.11ac (80MHz)	MCS0	1 Tx	42	5210	8.8	
			1 Tx	42	5210		8.9
		MCS0	2 Tx	42	5210	8.9	8.9
5.3(UNII)	802.11a	6 Mbps	1 Tx	52	5260	9.3	
				60	5300	9.0	
				64	5320	9.1	
			1 Tx	52	5260		9.0
				60	5300		8.7
				64	5320		8.7
			2 Tx	52	5260	9.3	8.9
				60	5300	9.0	9.0
				64	5320	9.1	9.0
	802.11n(HT20)	MCS0	1 Tx	52	5260	8.8	
				60	5300	8.8	
				64	5320	8.7	

			1 Tx	52	5260		8.7
				60	5300		8.7
				64	5320		8.7
		MCS0	2 Tx	52	5260	8.8	8.8
				60	5300	8.8	8.8
				64	5320	8.8	8.8
	802.11n(HT40)	MCS0	1 Tx	54	5270	9.1	
				62	5310	9.2	
			1 Tx	54	5270		9.1
		MCS0	2 Tx	62	5310		9.2
				54	5270	9.1	9.1
			2 Tx	62	5310	9.2	9.2
	802.11ac (80MHz)	MCS0	1 Tx	58	5290	9.0	
			1 Tx	58	5290		9.0
		MCS0	2 Tx	58	5290	9.0	9.0
5.5(UNII)	802.11a	6 Mbps	1 Tx	100	5500	9.0	
				140	5700	9.4	
			1 Tx	100	5500		9.1
				140	5700		9.3
			2 Tx	100	5500	9.1	9.2
				140	5700	9.4	9.3
	802.11n(HT20)	MCS0	1 Tx	100	5500	9.1	
				140	5700	9.1	
			1 Tx	100	5500		9.3
				140	5700		9.3
		MCS0	2 Tx	100	5500	9.1	9.3
				140	5700	9.1	9.3
	802.11n(HT40)	MCS0	1 Tx	102	5510	9.2	
				134	5670	9.1	
			1 Tx	102	5510		9.2
				134	5670		9.3
		MCS0	2 Tx	102	5510	9.1	9.2
				134	5670	9.2	9.3
	802.11ac(80MHz)	MCS0	1 Tx	106	5530	8.9	
			1 Tx	106	5530		9.0
		MCS0	2 Tx	106	5530	8.9	9.1
5.8(UNII 4)	802.11a	6 Mbps	1 Tx	149	5745	8.8	
				157	5785	8.6	
				165	5825	8.6	
			1 Tx	149	5745		9.0
				157	5785		8.9
				165	5825		8.8
			2 Tx	149	5745	8.8	9.1

				157	5785	8.6	8.9
				165	5825	8.4	8.8
	802.11n(HT20)	MCS0	1 Tx	149	5745	8.9	
				157	5785	8.9	
			1 Tx	161	5805	8.6	
				149	5745		9.0
		MCS0	2 Tx	157	5785		9.0
				161	5805		8.9
			2 Tx	149	5745	8.9	8.9
				157	5785	8.9	9.0
	802.11n(HT40)	MCS0	1 Tx	161	5805	8.6	9.0
				149	5745	8.9	8.9
			1 Tx	151	5755	8.9	
				159	5795	8.9	
		MCS0	2 Tx	151	5755		9.0
				159	5795		9.1
			2 Tx	151	5755	8.9	9.1
				159	5795	8.9	9.1
	802.11ac (80MHz)	MCS0	1 Tx	155	5775	8.8	
			1 Tx	155	5775		9.0
		MCS0	2 Tx	155	5775	9.0	9.0

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes two FPCB antennas, with a maximum gain of -2.01 dBi and 1.35dBi.

List of test reduction and modes covering other modes:

Authorized Frequency Band (Antenna port & Radiated Testing)		
Frequency Range (MHz)	Mode	Covered by
5180 - 5240	802.11a legacy 1TX	802.11a 2TX CDD
5180 - 5240	802.11HT20 1TX	802.11n HT20 2TX CDD
5180 - 5240	802.11HT20 2TX STBC	802.11n HT20 2TX CDD
5180 - 5240	802.11ac VHT20 1TX	802.11n HT20 2TX CDD
5180 - 5240	802.11ac VHT20 2TX STBC	802.11n HT20 2TX CDD
5180 - 5240	802.11ac VHT20 2TX CDD	802.11n HT20 2TX CDD
5190 - 5230	802.11n HT40 1TX	802.11n HT40 2TX CDD
5190 - 5230	802.11n HT40 2TX STBC	802.11n HT40 2TX CDD
5190 - 5230	802.11ac VHT40 1TX	802.11n HT40 2TX CDD
5190 - 5230	802.11ac VHT40 2TX STBC	802.11n HT40 2TX CDD
5190 - 5230	802.11ac VHT40 2TX CDD	802.11n HT40 2TX CDD
5210	802.11ac VHT80 1TX	802.11ac VHT80 2TX CDD
5210	802.11ac VHT80 2TX STBC	802.11ac VHT80 2TX CDD

Authorized Frequency Band (Antenna port & Radiated Testing)		
Frequency Range (MHz)	Mode	Covered by
5260 - 5320	802.11a legacy 1TX	802.11a 2TX CDD
5260 - 5320	802.11HT20 1TX	802.11n HT20 2TX CDD
5260 - 5320	802.11HT20 2TX STBC	802.11n HT20 2TX CDD
5260 - 5320	802.11ac VHT20 1TX	802.11n HT20 2TX CDD
5260 - 5320	802.11ac VHT20 2TX STBC	802.11n HT20 2TX CDD
5260 - 5320	802.11ac VHT20 2TX CDD	802.11n HT20 2TX CDD
5270 - 5310	802.11n HT40 1TX	802.11n HT40 2TX CDD
5270 - 5310	802.11n HT40 2TX STBC	802.11n HT40 2TX CDD
5270 - 5310	802.11ac VHT40 1TX	802.11n HT40 2TX CDD
5270 - 5310	802.11ac VHT40 2TX STBC	802.11n HT40 2TX CDD
5270 - 5310	802.11ac VHT40 2TX CDD	802.11n HT40 2TX CDD
5290	802.11ac VHT80 1TX	802.11ac VHT80 2TX CDD
5290	802.11ac VHT80 2TX STBC	802.11ac VHT80 2TX CDD

Authorized Frequency Band (Antenna port & Radiated Testing)		
Frequency Range (MHz)	Mode	Covered by
5500 - 5720	802.11a legacy 1TX	802.11a 2TX CDD
5500 - 5720	802.11HT20 1TX	802.11n HT20 2TX CDD
5500 - 5720	802.11HT20 2TX STBC	802.11n HT20 2TX CDD
5500 - 5720	802.11ac VHT20 1TX	802.11n HT20 2TX CDD
5500 - 5720	802.11ac VHT20 2TX STBC	802.11n HT20 2TX CDD
5500 - 5720	802.11ac VHT20 2TX CDD	802.11n HT20 2TX CDD
5510 - 5710	802.11n HT40 1TX	802.11n HT40 2TX CDD
5510 - 5710	802.11n HT40 2TX STBC	802.11n HT40 2TX CDD
5510 - 5710	802.11ac VHT40 1TX	802.11n HT40 2TX CDD
5510 - 5710	802.11ac VHT40 2TX STBC	802.11n HT40 2TX CDD
5510 - 5710	802.11ac VHT40 2TX CDD	802.11n HT40 2TX CDD
5530-5690	802.11ac VHT80 1TX	802.11ac VHT80 2TX CDD
5530-5690	802.11ac VHT80 2TX STBC	802.11ac VHT80 2TX CDD

Authorized Frequency Band (Antenna port & Radiated Testing)		
Frequency Range (MHz)	Mode	Covered by
5745 - 5825	802.11a legacy 1TX	802.11a 2TX CDD
5745 - 5825	802.11HT20 1TX	802.11n HT20 2TX CDD
5745 - 5825	802.11HT20 2TX STBC	802.11n HT20 2TX CDD
5745 - 5825	802.11ac VHT20 1TX	802.11n HT20 2TX CDD
5745 - 5825	802.11ac VHT20 2TX STBC	802.11n HT20 2TX CDD
5745 - 5825	802.11ac VHT20 2TX CDD	802.11n HT20 2TX CDD
5755 - 5795	802.11n HT40 1TX	802.11n HT40 2TX CDD
5755 - 5795	802.11n HT40 2TX STBC	802.11n HT40 2TX CDD
5755 - 5795	802.11ac VHT40 1TX	802.11n HT40 2TX CDD
5755 - 5795	802.11ac VHT40 2TX STBC	802.11n HT40 2TX CDD
5755 - 5795	802.11ac VHT40 2TX CDD	802.11n HT40 2TX CDD
5775	802.11ac VHT80 1TX	802.11ac VHT80 2TX CDD
5775	802.11ac VHT80 2TX STBC	802.11ac VHT80 2TX CDD

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

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

802.11a mode: 6 Mbps

802.11n HT20mode: MCS0

802.11n HT40mode: MCS0

802.11ac VHT80mode: MCS0

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

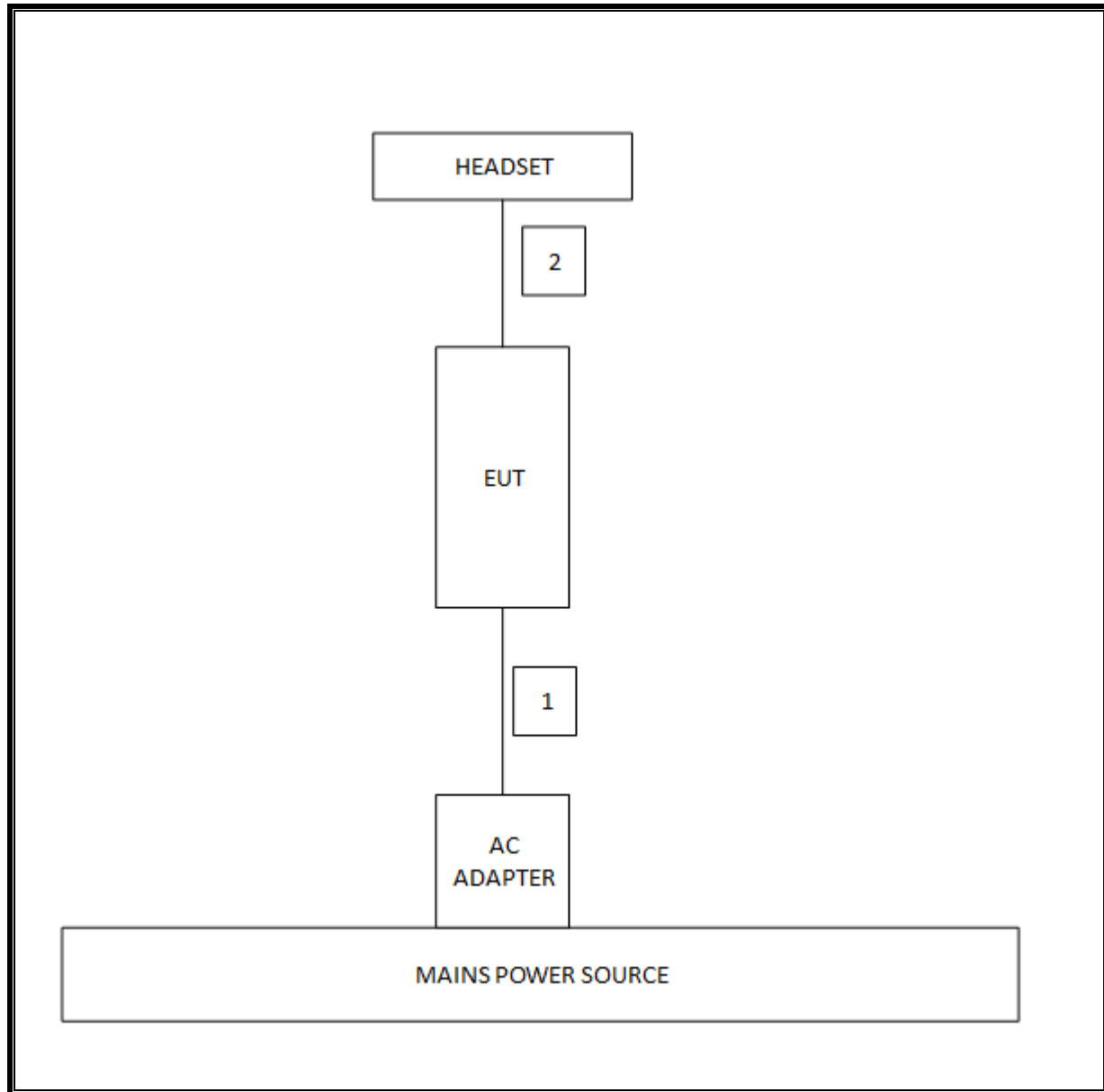
Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter	SAMSUNG	ETA-U90CBC	N/A	N/A
Earphone	SAMSUNG	N/A	N/A	N/A

I/O CABLES

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC Power	1	Mini-USB	Shielded	1.2m	N/A
2	Audio	1	Mini-Jack	Unshielded	1.0m	N/A

TEST SETUP

The EUT is setup as a stand-alone device.

SETUP DIAGRAM FOR TESTS

6. TEST AND MEASUREMENT EQUIPMENT

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

Test Equipment List				
Description	Manufacturer	Model	Asset	Cal Due
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C00986	4/1/2015
Spectrum Analyzer, 26.5 GHz	Agilent / HP	E4440A	C01179	2/26/2015
EMI Test Receiver, 30 MHz	R & S	ESHS 20	N02396	8/8/2014
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00580	1/28/2015
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01063	10/22/2014
Preamplifier, 40 GHz	Miteq	NSP4000-SP2	C00990	8/2/2014
Antenna, Bilog, 30MHz-1 GHz	Sunol Sciences	JB1	N/A	3/6/2015
Antenna, Horn, 18 GHz	ETS	3117	C01022	2/21/2015
Antenna, Horn, 26.5 GHz	ARA	MWH-1826/B	C00589	12/17/2014
Peak Power Meter	Agilent / HP	E4416A	C00963	12/13/2014
Peak / Average Power Sensor	Agilent / HP	E9327A	C00964	12/13/2014
LISN, 30 MHz	FCC	50/250-25-2	C00626	01/14/15
Reject Filter, 5.725-5.825 GHz	Micro-Tronics	BRC13192	N02676	CNR

7. SUMMARY TABLE

FCC Part Section	Test Description	Test Limit	Test Condition	Test Result	Worst Case
15.247 (a)	Occupied Band width (26dB)	N/A	Conducted	Pass	85MHz
15.407 (a)(1)	TX Cond. Power 5.15-2.25	<17dBm or 4+10Log(OBW)		Pass	16.72dBm
15.407 (a)(2)	TX Cond. Power 5.25-5.35 & 5.47-5.725	<24dBm or 11+10Log(OBW)		Pass	16.71dBm
15.407 (a)(3)	TX Cond. Power 5.725-5.825	< 30dBm or 17+10Log(OBW)		Pass	16.86dBm
15.407 (a)(5)	PSD	<8dBm		Pass	3.22dBm
15.407 (a)(6)	Peak Excursion Ratio	13dB		Pass	12.4dB
15.207 (a)	AC Power Line conducted emissions	Section 10	Radiated	Pass	44.55dBuV
15.407 (b) & 15.209	Radiated Spurious Emission	< 54dBuV/m		Pass	53.5dBuV/m
15.407 (h)(2)	Dynamic Frequency Selection	N/A	Radiated / Conducted	Pass	N/A

8. ON TIME, DUTY CYCLE AND MEASUREMENT METHODS

LIMITS

None; for reporting purposes only.

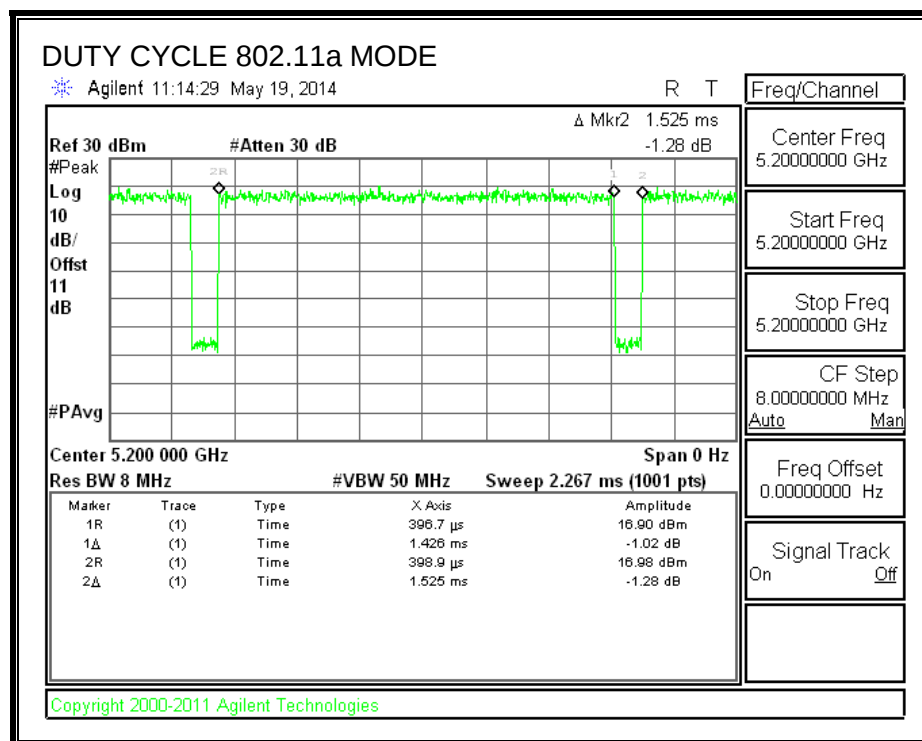
PROCEDURE

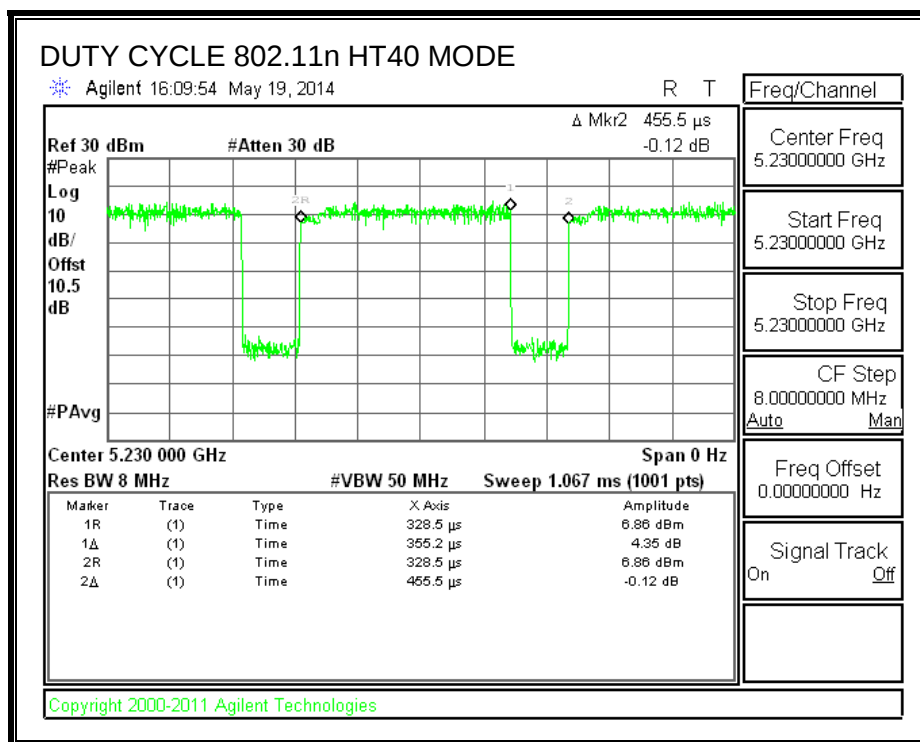
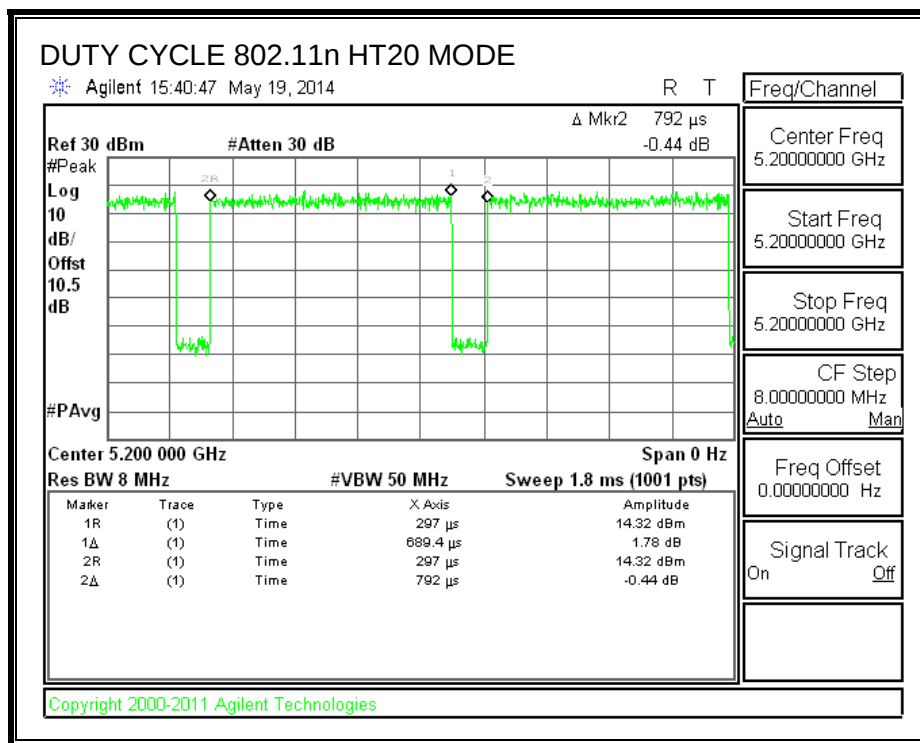
KDB 789033 Zero-Span Spectrum Analyzer Method.

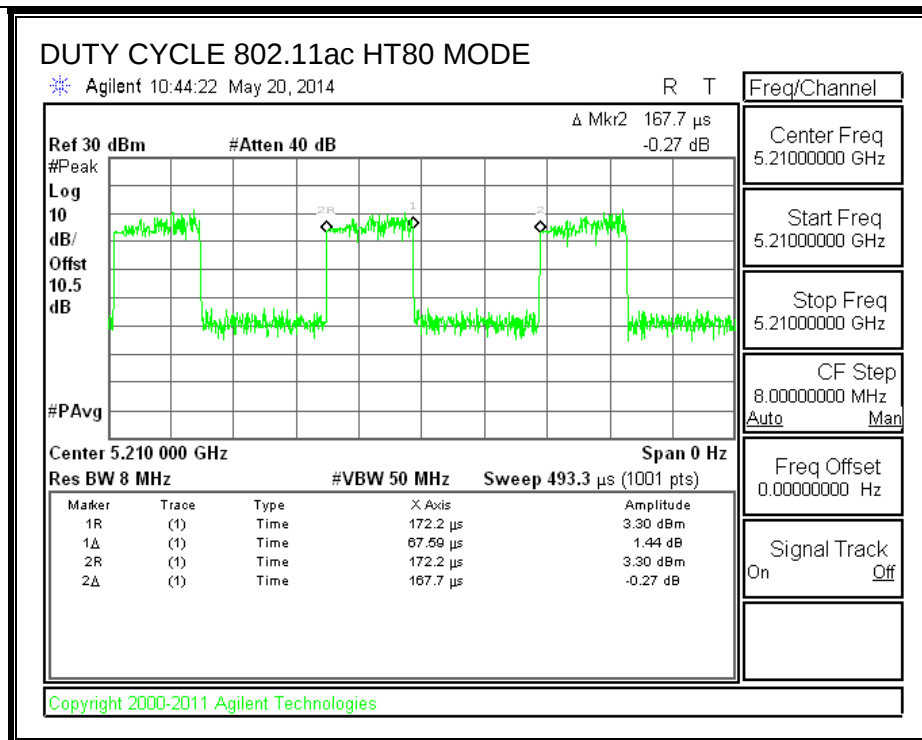
8.1. ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)
802.11a	1.43	1.53	0.935	93.5%	0.29	0.701
802.11ac HT80	0.07	0.17	0.400	40.0%	3.98	14.925
802.11n HT20	0.69	0.79	0.870	87.0%	0.60	1.451
802.11n HT40	0.36	0.46	0.780	78.0%	1.08	2.815

8.2. DUTY CYCLE PLOTS







9. MEASUREMENT METHOD

The Duty Cycle is less than 98% and consistent therefore KDB 789033 Method SA-2 is used for power and PPSD

The Duty Cycle is less than 98% and consistent, KDB 789033 Method AD with Power RMS Averaging and duty cycle correction is used.

10. ANTENNA PORT TEST RESULTS

10.1. 26 dB BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

10.1.1. 802.11a MODE IN THE 5.2 GHz BAND

Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Low	5180	21.8	21.9
Mid	5200	21.8	21.9
High	5240	21.8	21.8

10.1.2. 802.11n HT20 MODE IN THE 5.2 GHz BAND

Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Low	5180	22.1	22.2
Mid	5200	22.1	22.2
High	5240	22.1	22.1

10.1.3. 802.11n HT40 MODE IN THE 5.2 GHz BAND

Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Low	5190	40.5	40.0
High	5230	40.5	40.1

10.1.4. 802.11ac HT80 MODE IN THE 5.2 GHz BAND

Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Low	5210	82.0	82.0

10.1.1. 802.11a MODE IN THE 5.3 GHz BAND

Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Low	5260	22.6	22.2
Mid	5300	22.7	22.2
High	5320	22.5	22.3

10.1.1. 802.11n HT20 MODE IN THE 5.3 GHz BAND

Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Low	5260	22.7	22.5
Mid	5300	22.7	22.4
High	5320	22.7	22.4

10.1.2. 802.11n HT40 MODE IN THE 5.3 GHz BAND

Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Low	5270	40.00	40.40
High	5310	40.50	40.00

10.1.3. 802.11ac HT80 MODE IN THE 5.3 GHz BAND

Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Low	5290	82.0	82.0

10.1.4. 802.11a MODE IN THE 5.5 GHz BAND

Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Low	5500	22.6	22.3
Mid	5580	22.6	22.3
High	5700	22.6	22.3

10.1.5. 802.11n HT20 MODE IN THE 5.5 GHz BAND

Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Low	5500	22.7	22.6
Mid	5580	22.7	22.4
High	5700	22.6	22.8

10.1.6. 802.11n HT40 MODE IN THE 5.5 GHz BAND

Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Low	5510	41.6	41.9
Mid	5550	41.5	41.8
High	5670	41.7	41.6

10.1.7. 802.11ac HT80 MODE IN THE 5.5 GHz BAND

Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Low	5530	83.9	85.0

10.1.8. 802.11a MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Low	5745	22.5	22.4
Mid	5785	22.6	22.3
High	5825	22.5	22.5

10.1.9. 802.11n HT20 MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Low	5745	22.5	22.6
Mid	5785	22.7	22.5
High	5825	22.5	22.7

10.1.10. 802.11n HT40 MODE IN THE 5.8 GHz BAND

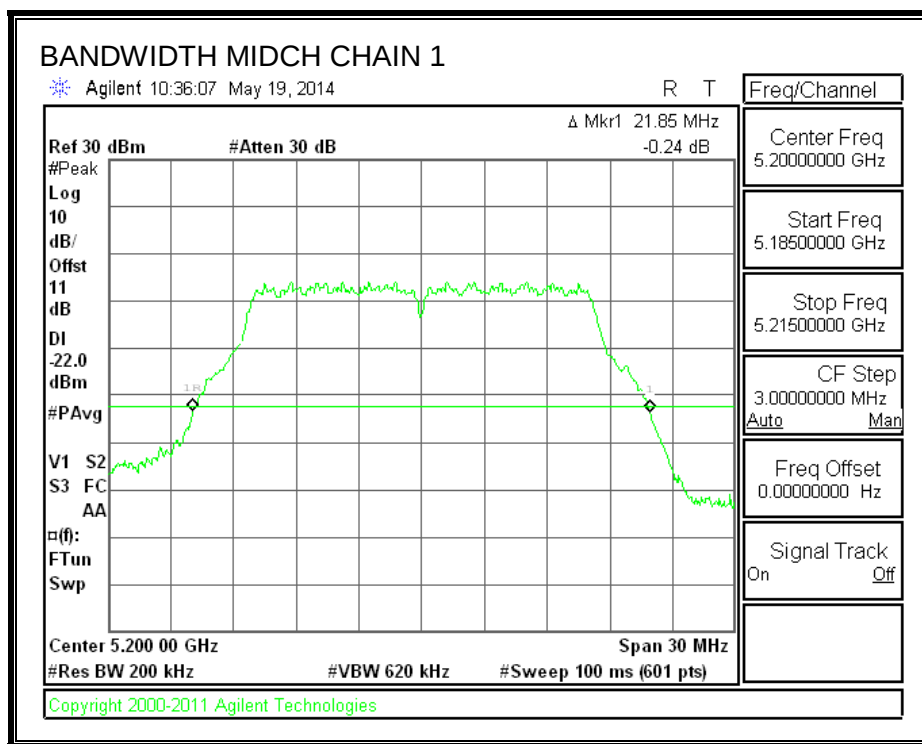
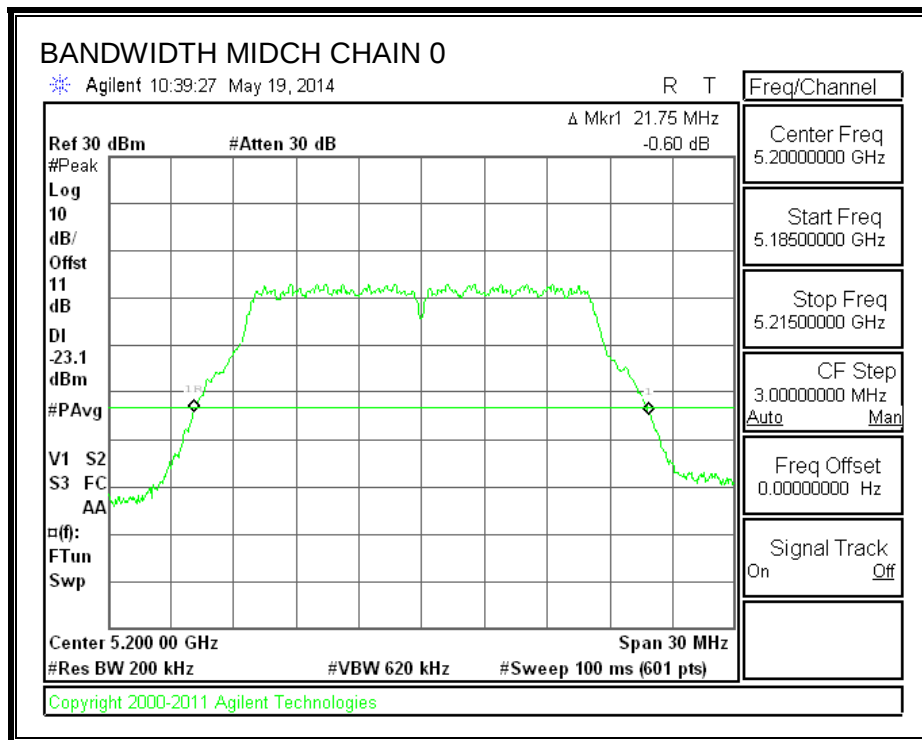
Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Low	5755	41.0	41.0
High	5795	41.0	40.9

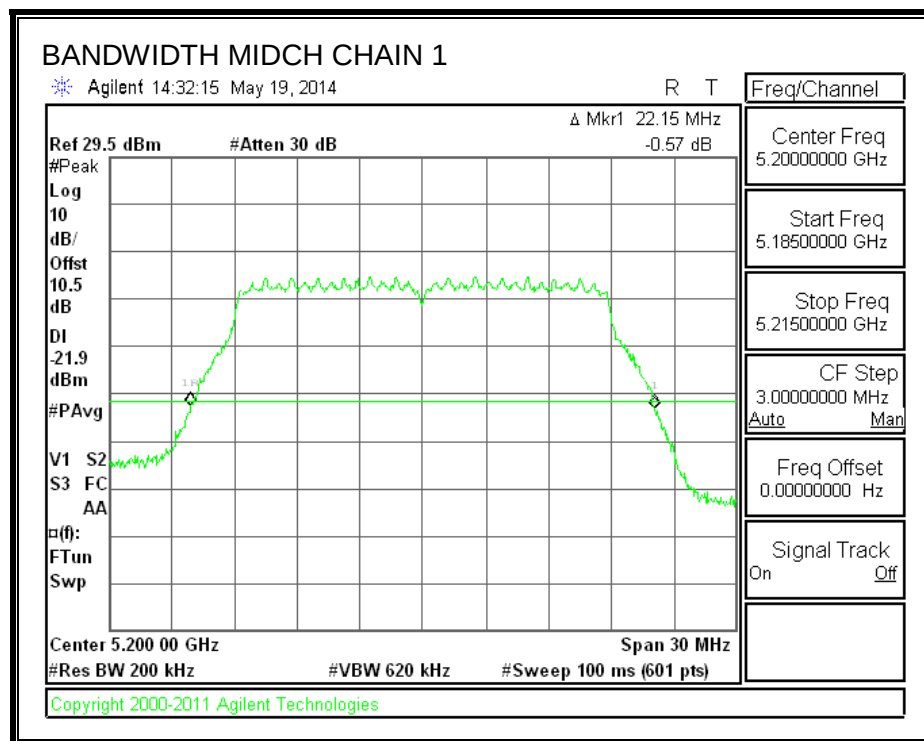
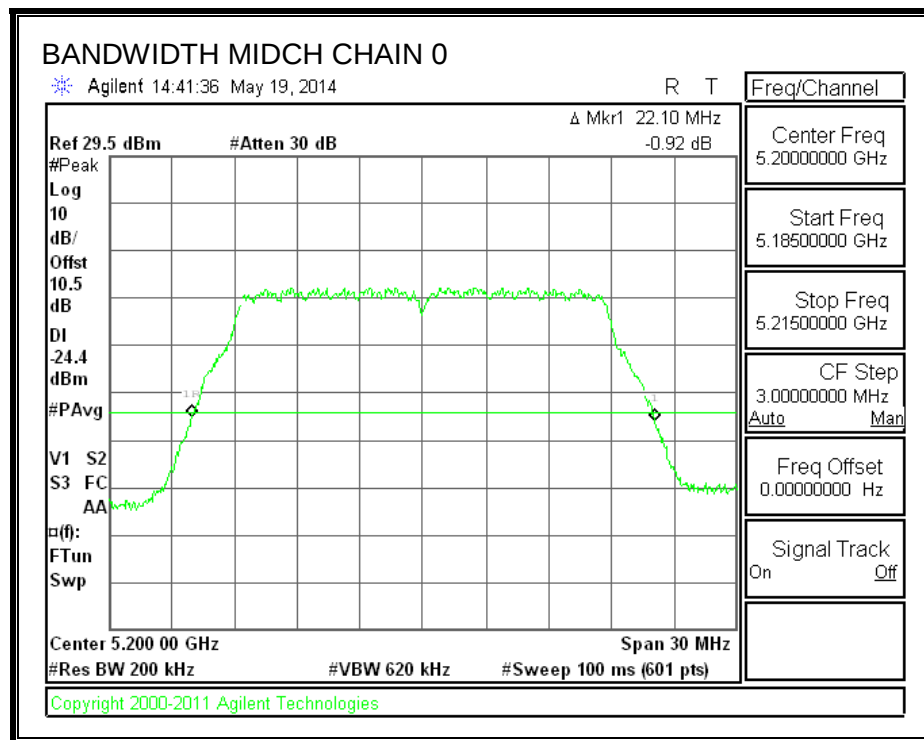
10.1.11. 802.11ac HT80 MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Low	5775	83.8	84.2

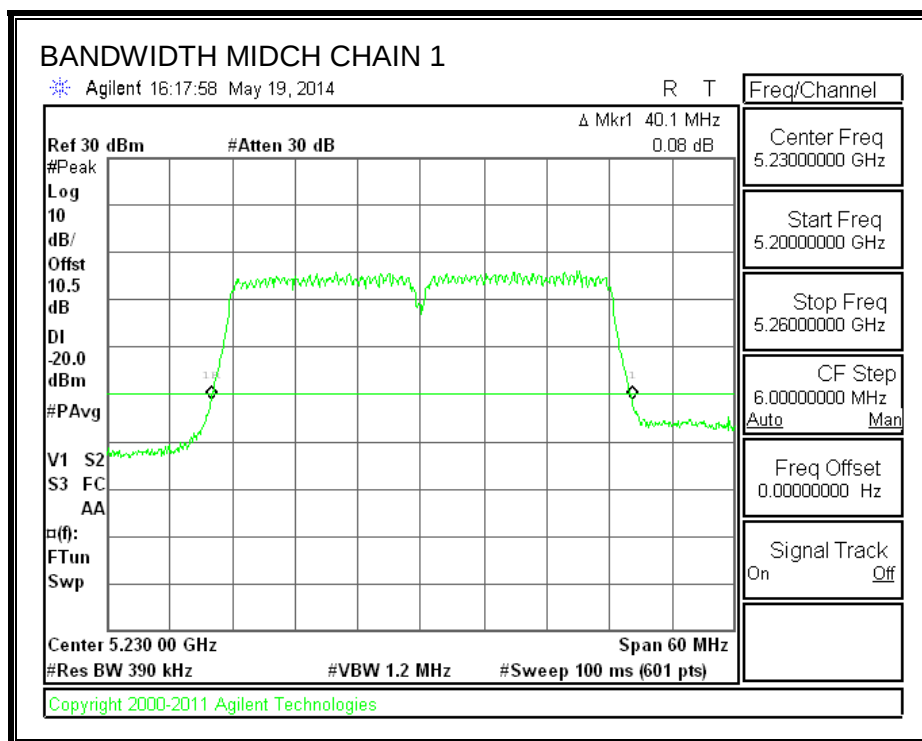
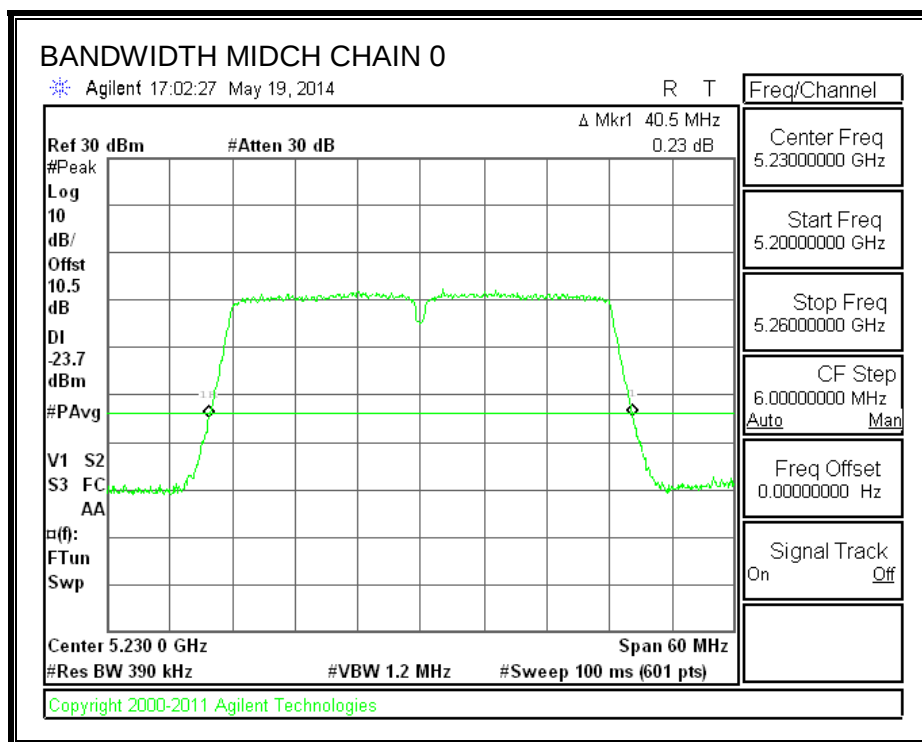
10.1.12. Plots

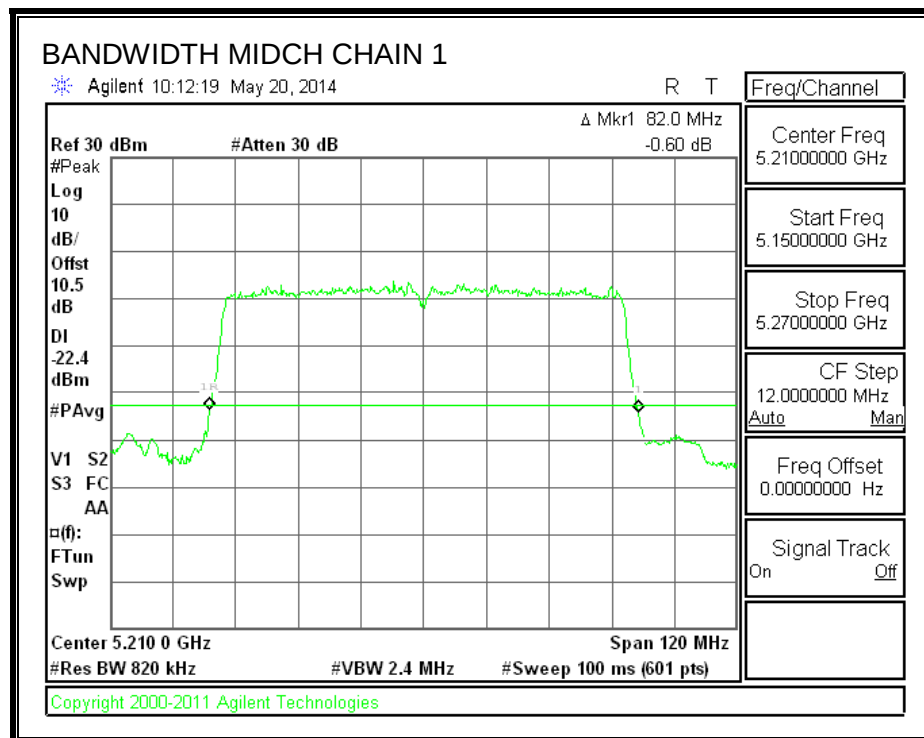
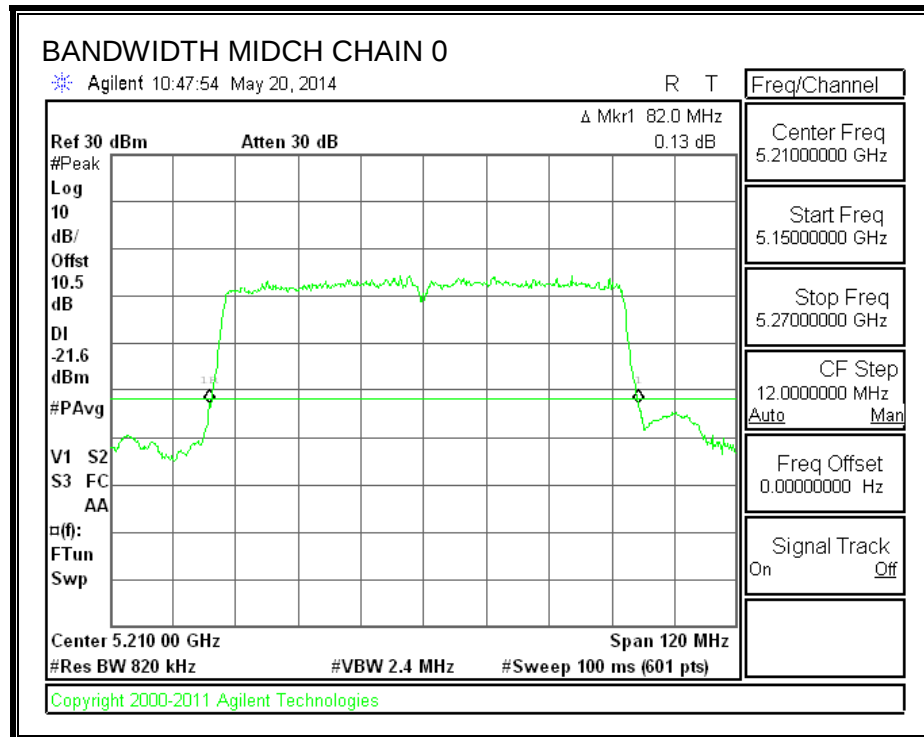
802.11a 5.2G 26 dB BANDWIDTH



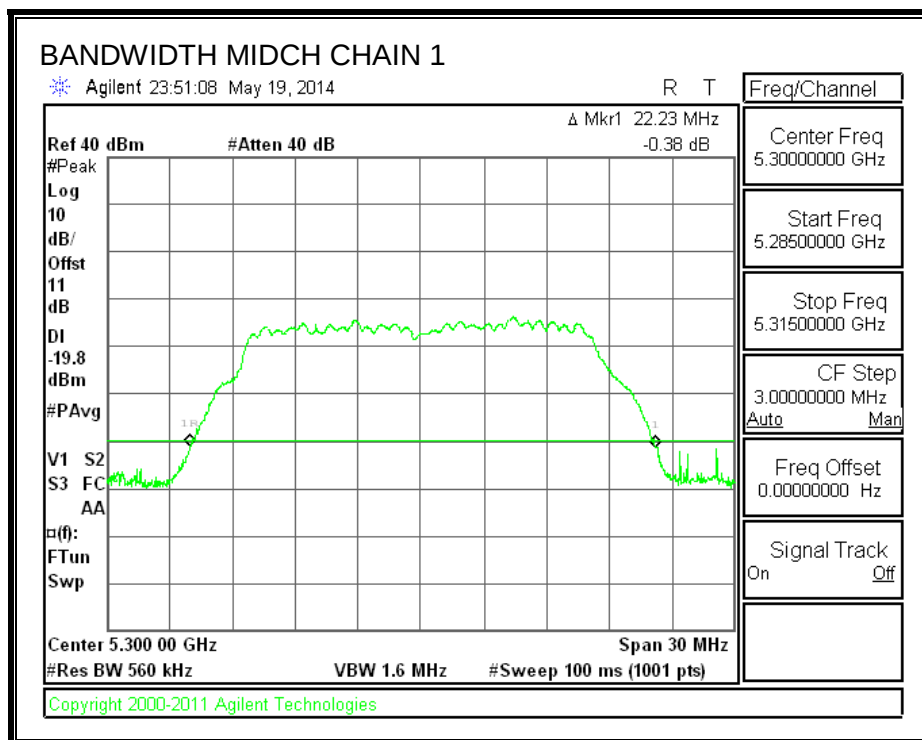
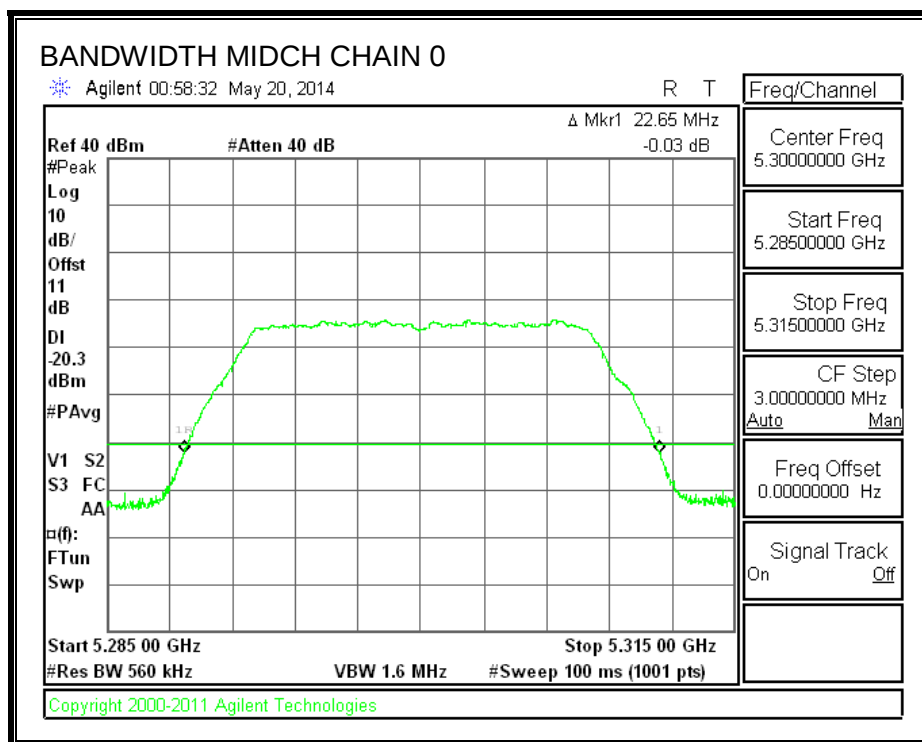
802.11n HT20 5.2G 26 dB BANDWIDTH

802.11n HT40 5.2G 26 dB BANDWIDTH

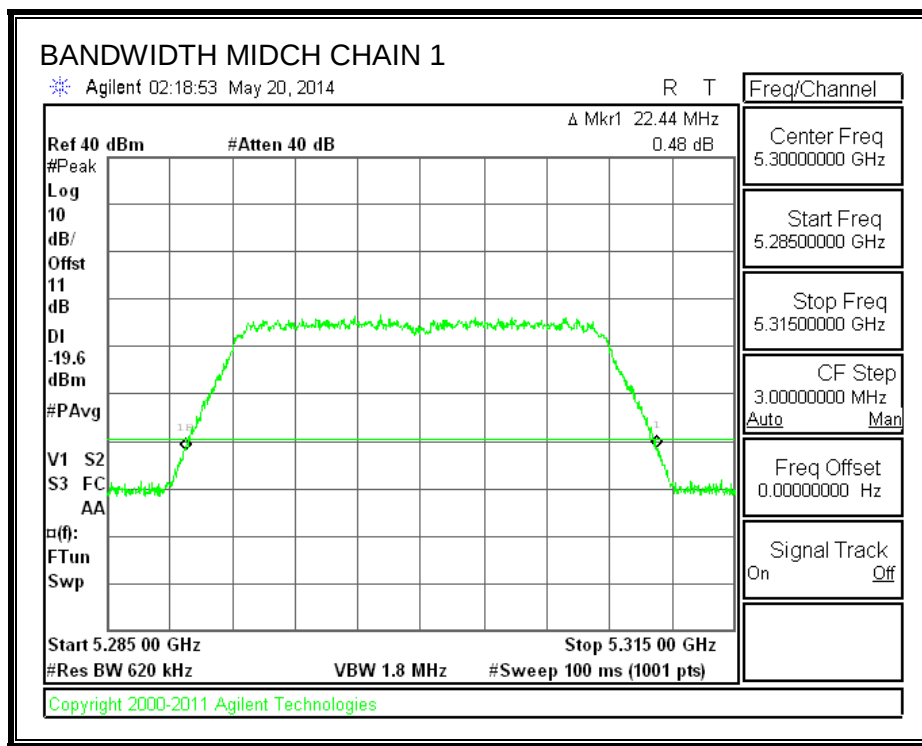
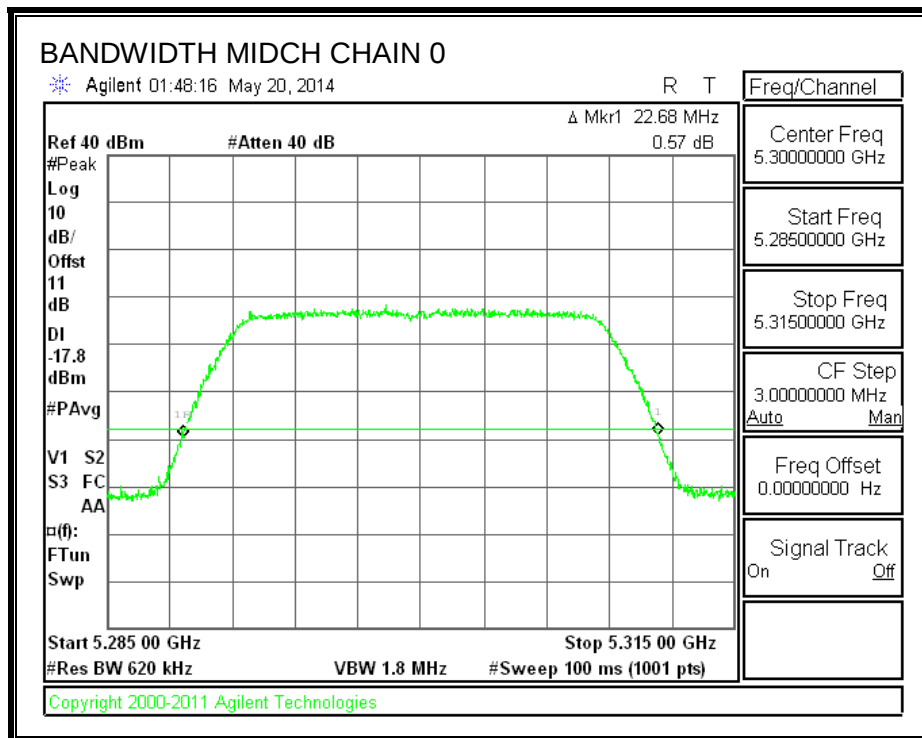


802.11ac HT80 5.2G 26 dB BANDWIDTH

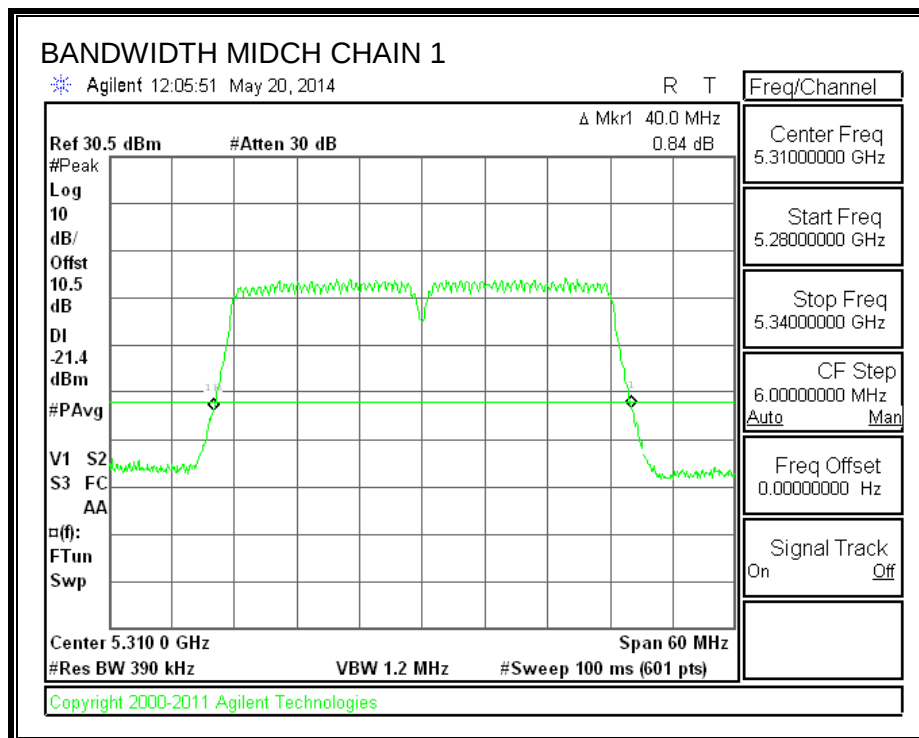
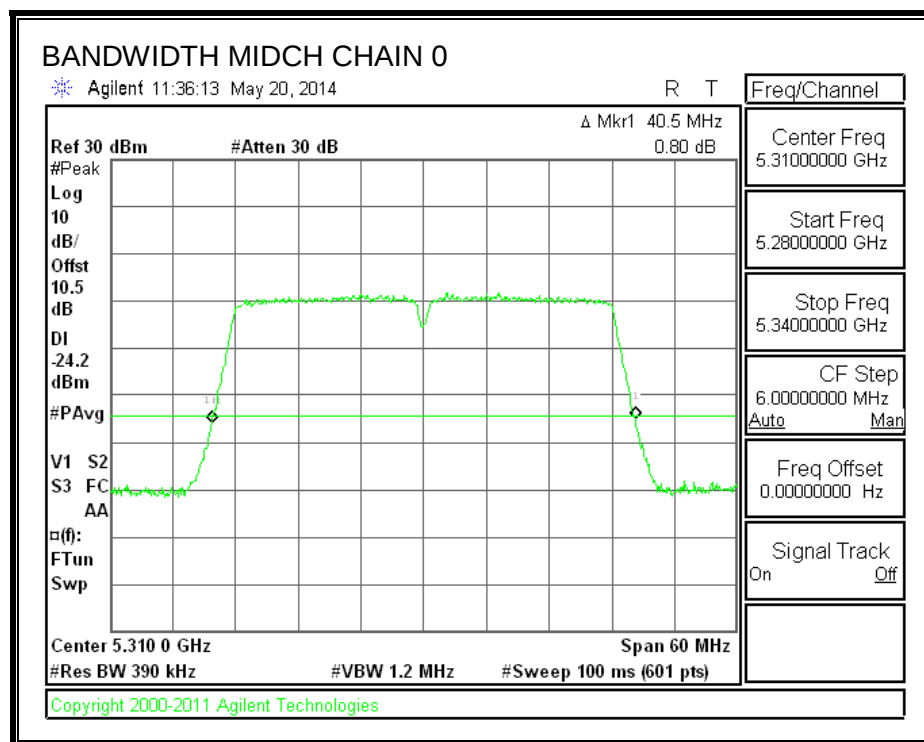
802.11a 5.3G 26 dB BANDWIDTH

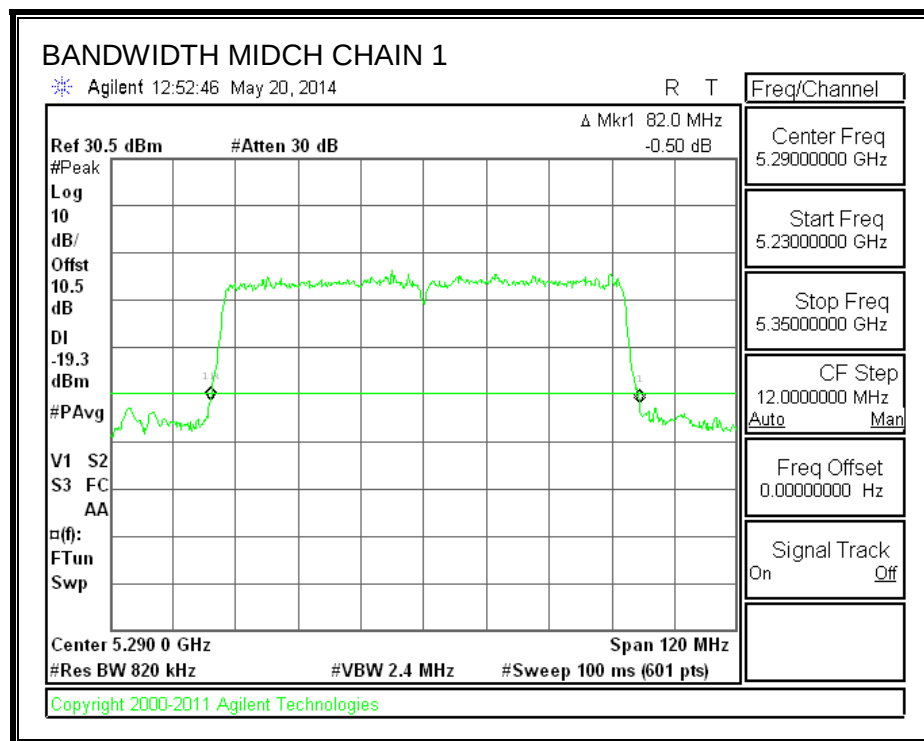
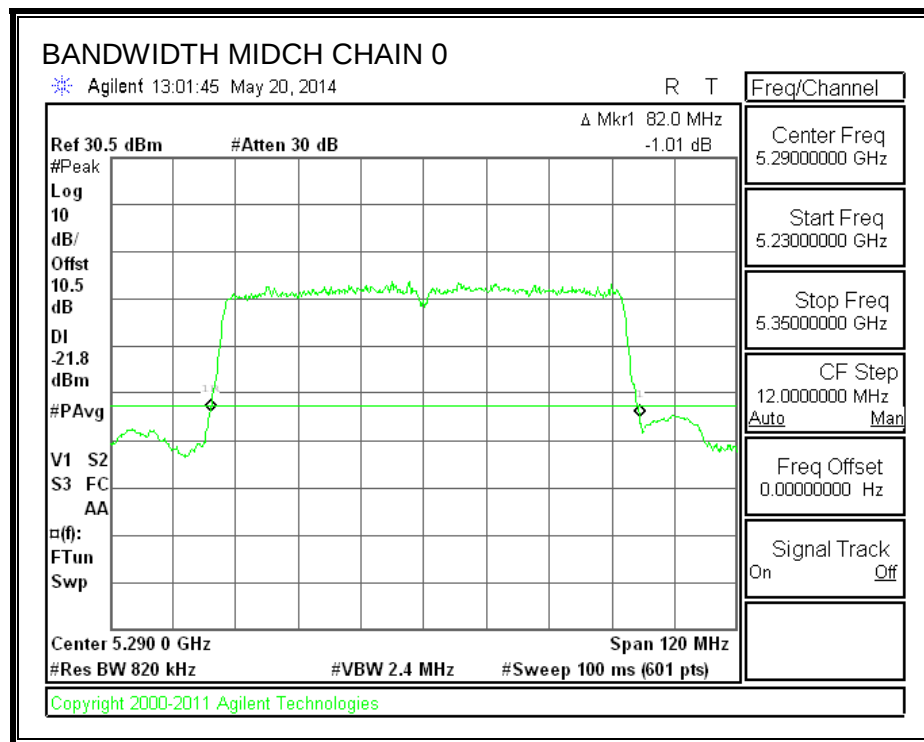


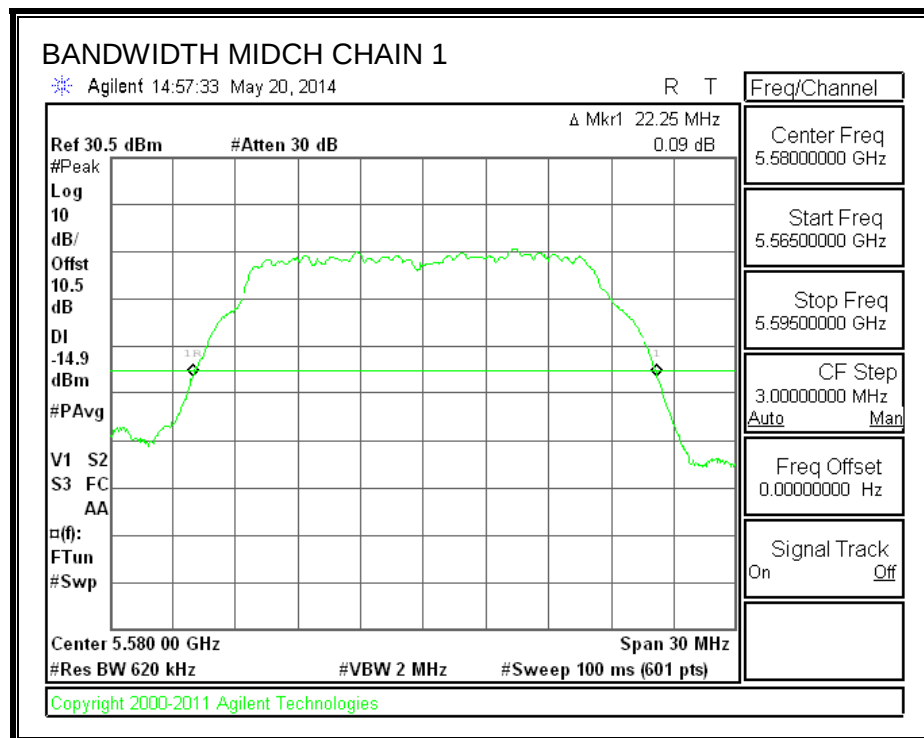
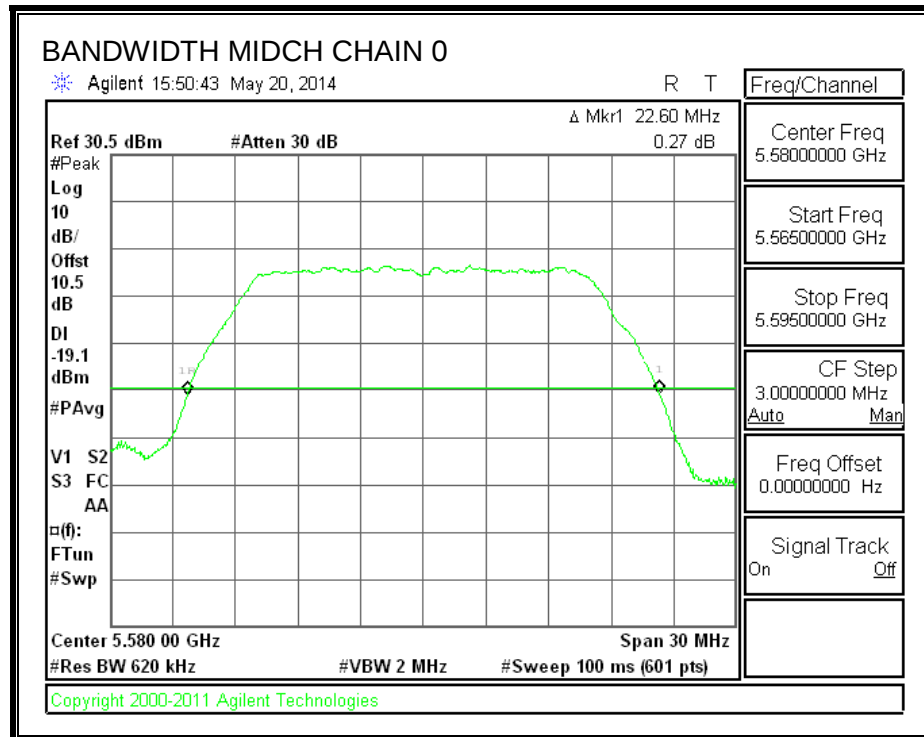
802.11n HT20 5.3G 26 dB BANDWIDTH



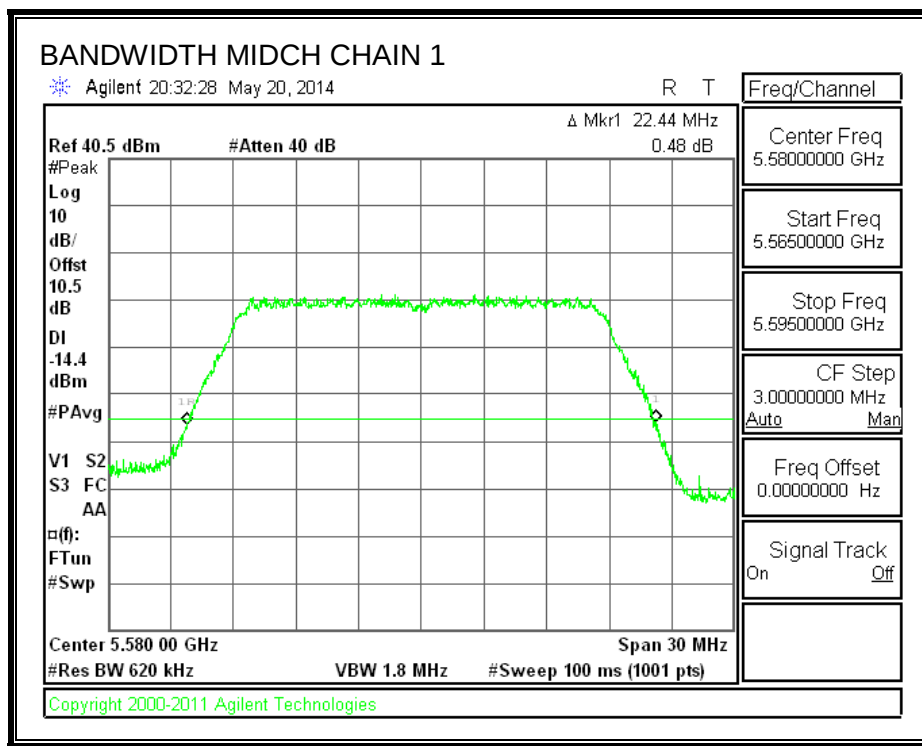
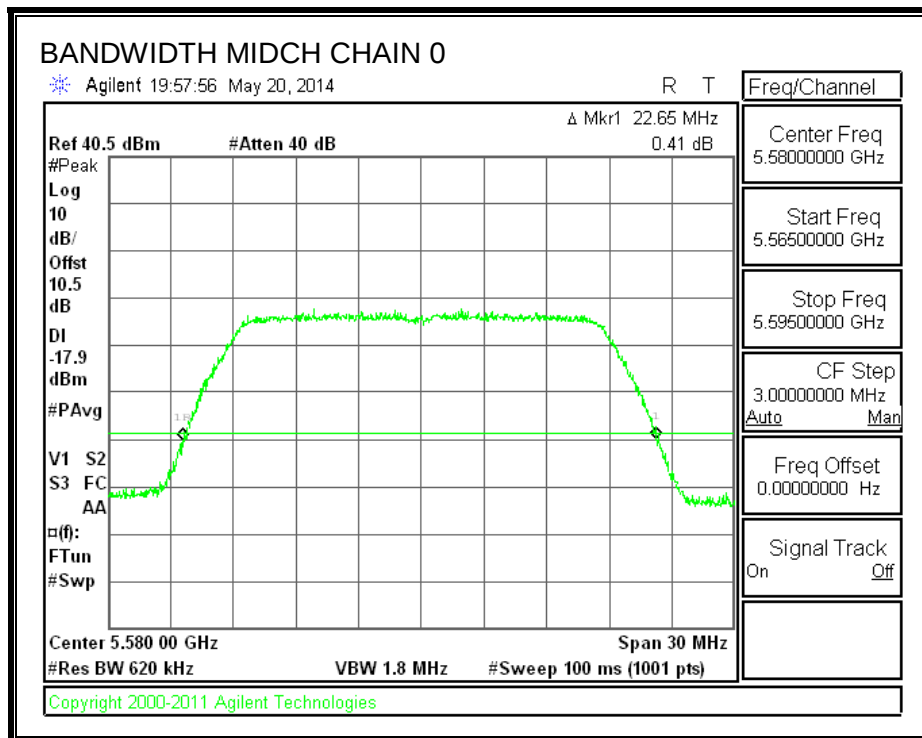
802.11n HT40 5.3G 26 dB BANDWIDTH



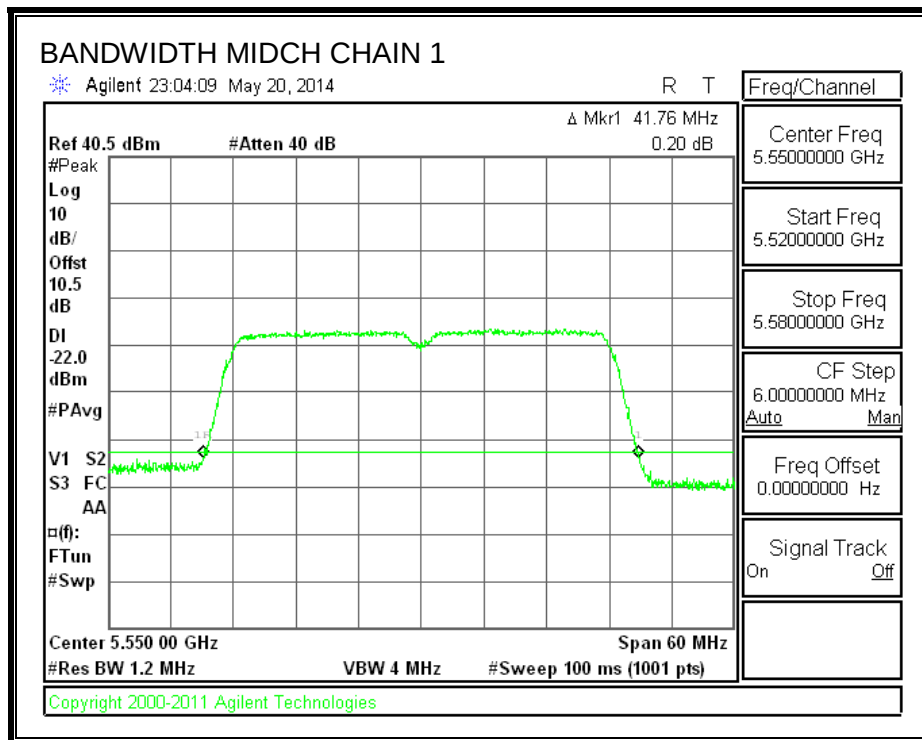
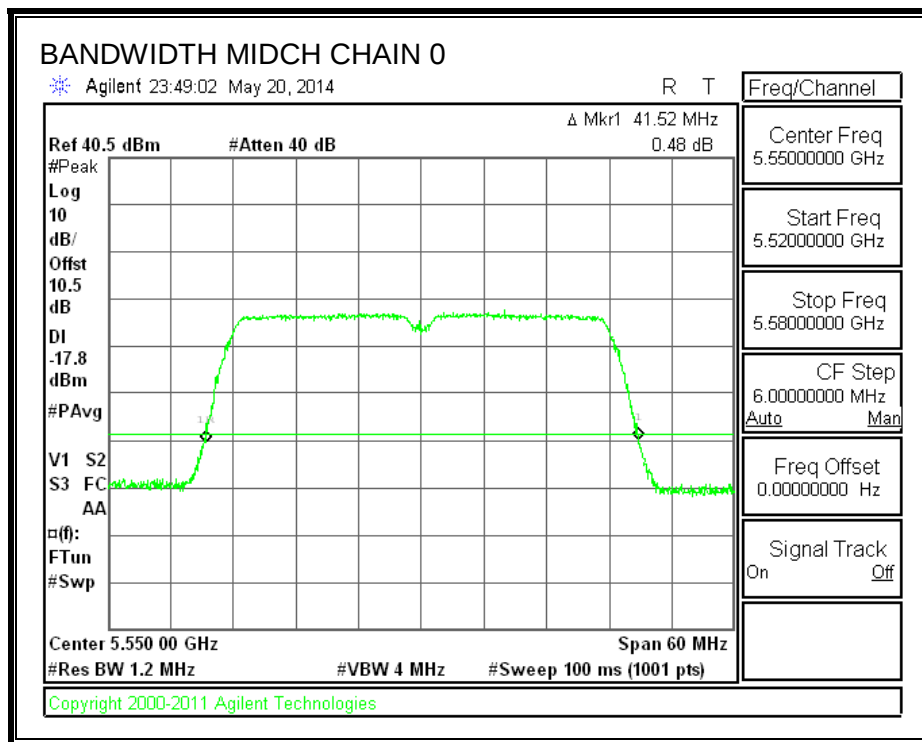
802.11ac HT80 5.3G 26 dB BANDWIDTH

802.11a 5.5G 26 dB BANDWIDTH

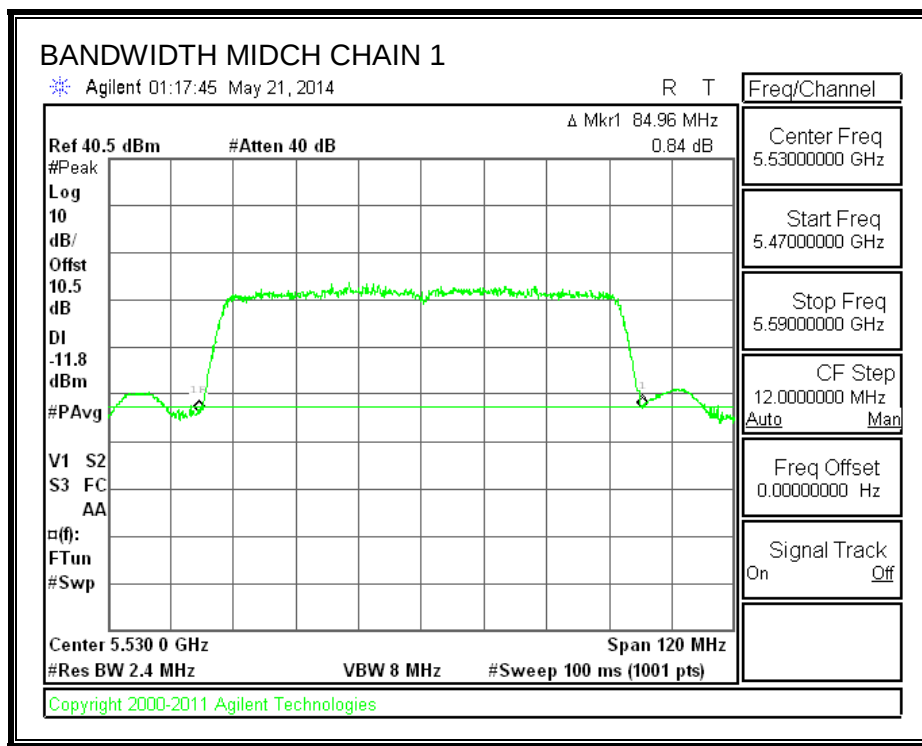
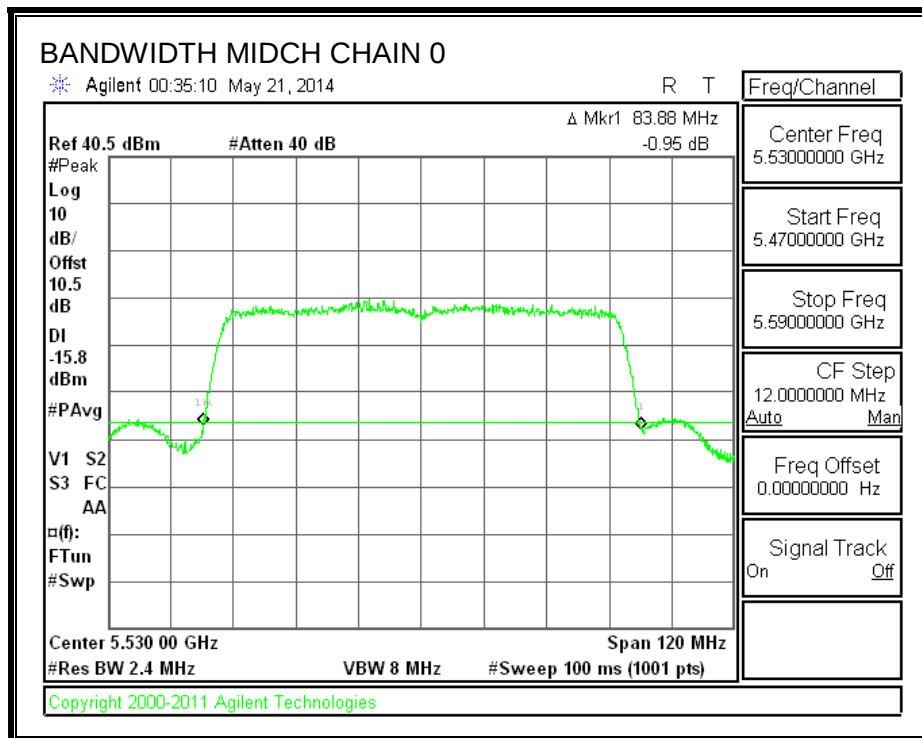
802.11n HT20 5.5G 26 dB BANDWIDTH

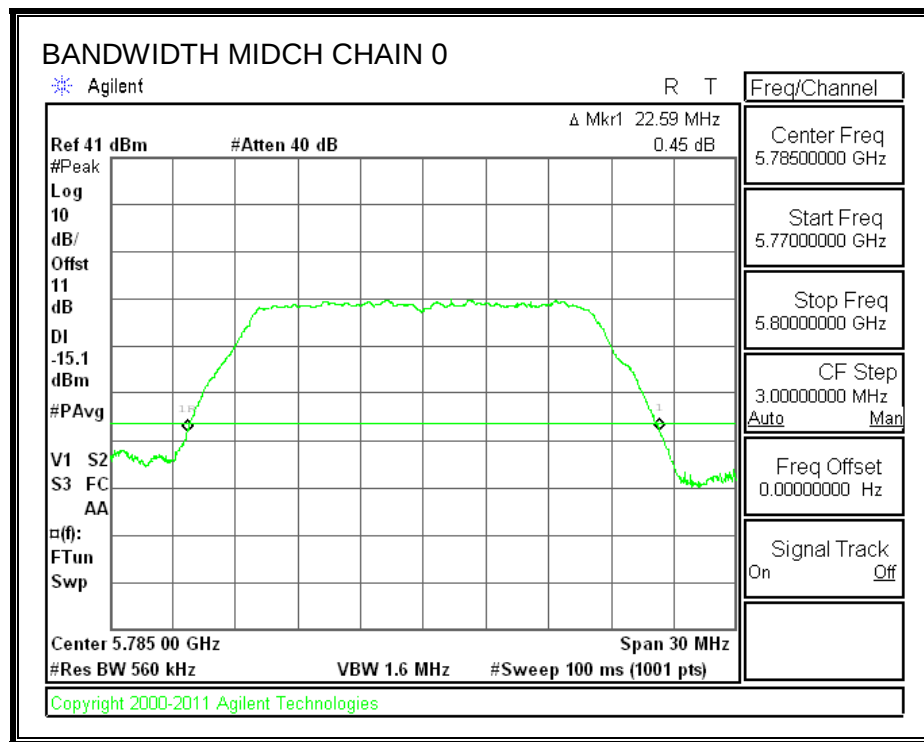
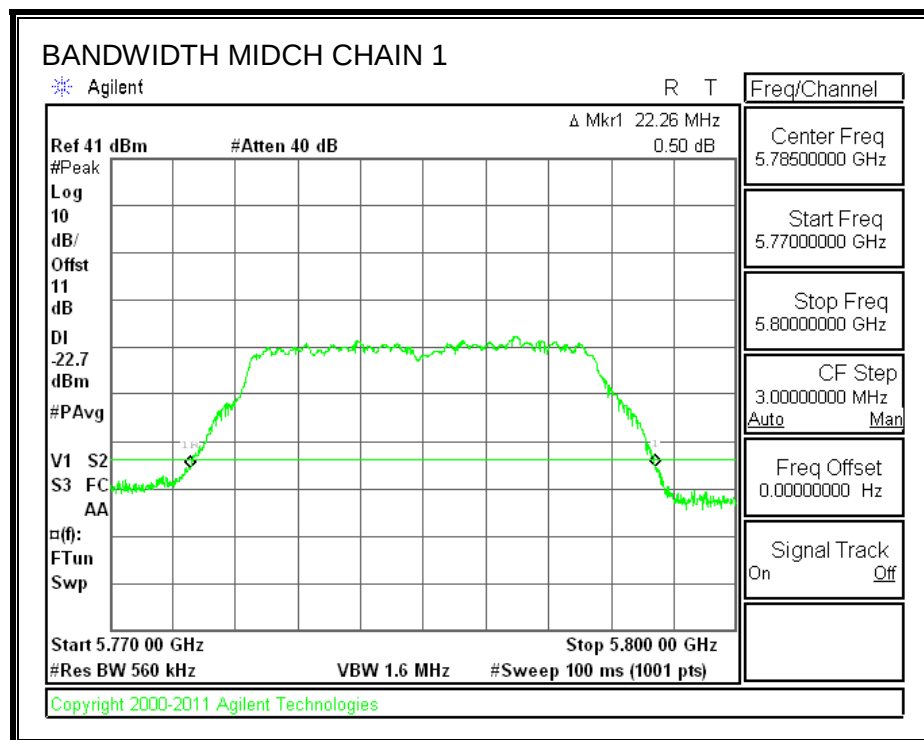


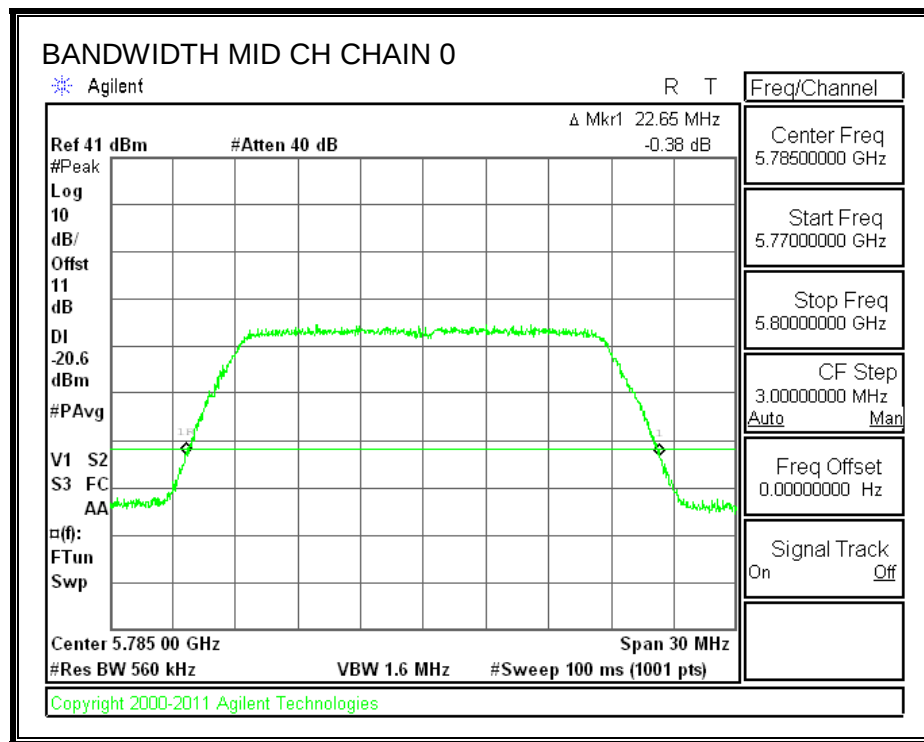
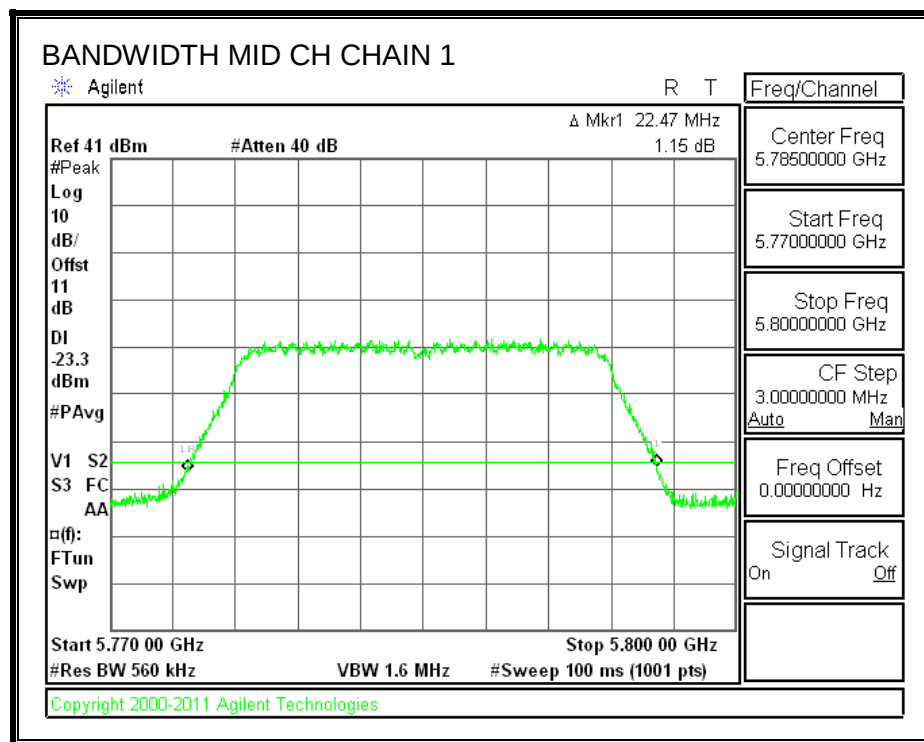
802.11n HT40 5.5G 26 dB BANDWIDTH



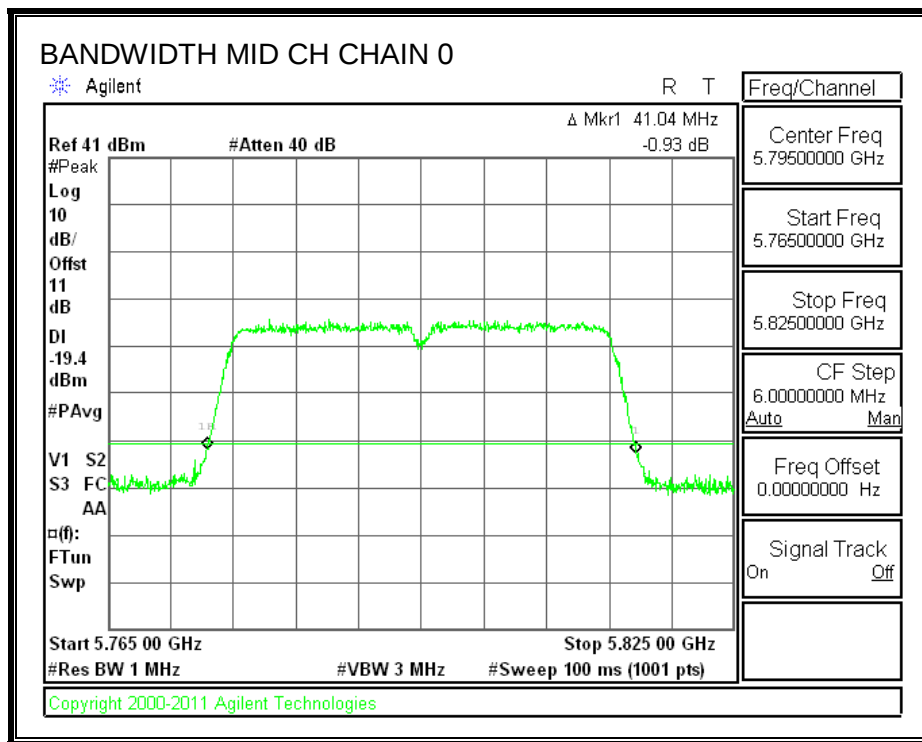
802.11ac HT80 5.5G 26 dB BANDWIDTH



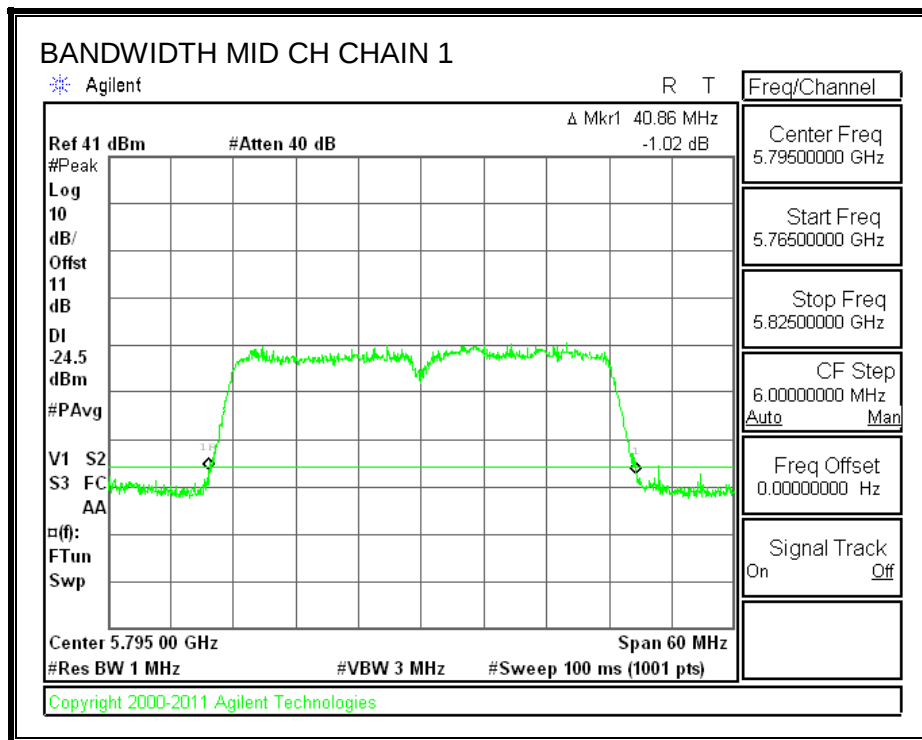
802.11a 5.8G 26 dB BANDWIDTH**802.11a 5.8G 26 dB BANDWIDTH**

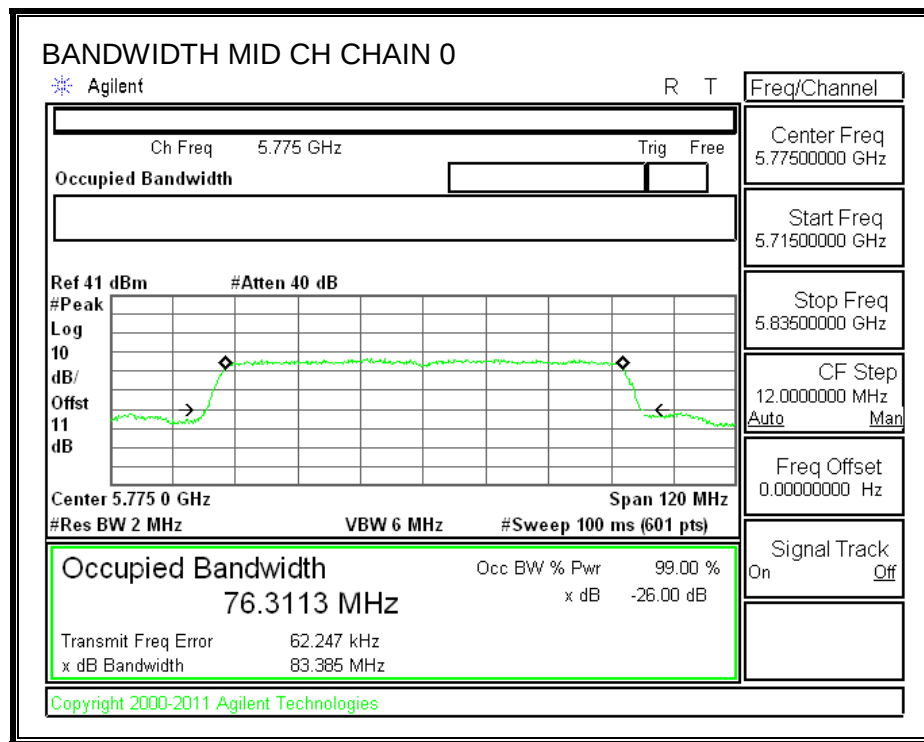
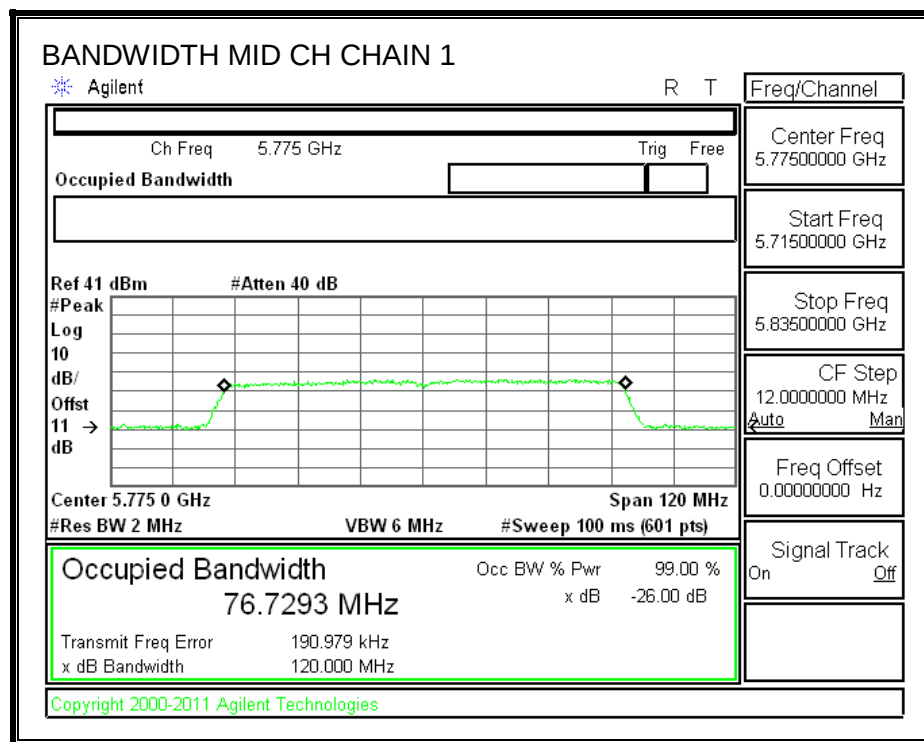
802.11n HT20 5.8G 26 dB BANDWIDTH**802.11n HT20 5.8G 26 dB BANDWIDTH**

802.11n HT40 5.8G 26 dB BANDWIDTH



802.11n HT40 5.8G 26 dB BANDWIDTH



802.11ac HT80 5.8G 26 dB BANDWIDTH**802.11ac HT80 5.8G 26 dB BANDWIDTH**

10.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

10.2.1. 802.11a MODE IN THE 5.2 GHz BAND

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	5180	16.5	16.5
Mid	5200	16.5	16.5
High	5240	16.5	16.5

10.2.2. 802.11n HT20 MODE IN THE 5.2 GHz BAND

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	5180	17.7	17.7
Mid	5200	17.7	17.7
High	5240	17.7	17.7

10.2.3. 802.11n HT40 MODE IN THE 5.2 GHz BAND

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	5190	36.1	36.1
High	5230	36.1	36.1

10.2.4. 802.11ac HT80 MODE IN THE 5.2 GHz BAND

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	5210	75.7	75.8

10.2.5. 802.11a MODE IN THE 5.3 GHz BAND

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	5260	16.8	16.7
Mid	5300	16.8	16.7
High	5320	16.7	16.8

10.2.6. 802.11n HT20 MODE IN THE 5.3 GHz BAND

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	5260	17.9	17.9
Mid	5300	17.9	17.9
High	5320	17.9	17.9

10.2.7. 802.11n HT40 MODE IN THE 5.3 GHz BAND

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	5270	36.1	36.1
High	5310	36.1	36.1

10.2.8. 802.11ac HT80 MODE IN THE 5.3 GHz BAND

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	5290	75.8	75.8

10.2.9. 802.11a MODE IN THE 5.5 GHz BAND

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	5500	16.8	16.7
Mid	5580	16.7	16.8
High	5700	16.7	16.8

10.2.10. 802.11n HT20 MODE IN THE 5.5 GHz BAND

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	5500	17.9	17.9
Mid	5580	17.9	17.9
High	5700	17.9	17.9

10.2.11. 802.11n HT40 MODE IN THE 5.5 GHz BAND

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	5510	36.1	36.4
Mid	5550	36.2	36.4
High	5670	36.0	36.4

10.2.12. 802.11ac HT80 MODE IN THE 5.5 GHz BAND

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	5530	76.0	76.1

10.2.13. 802.11a MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	5745	16.7	16.7
Mid	5785	16.7	16.7
High	5825	16.7	16.7

10.2.14. 802.11n HT20 MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	5745	17.9	17.9
Mid	5785	17.9	17.9
High	5825	17.9	17.9

10.2.15. 802.11n HT40 MODE IN THE 5.8 GHz BAND

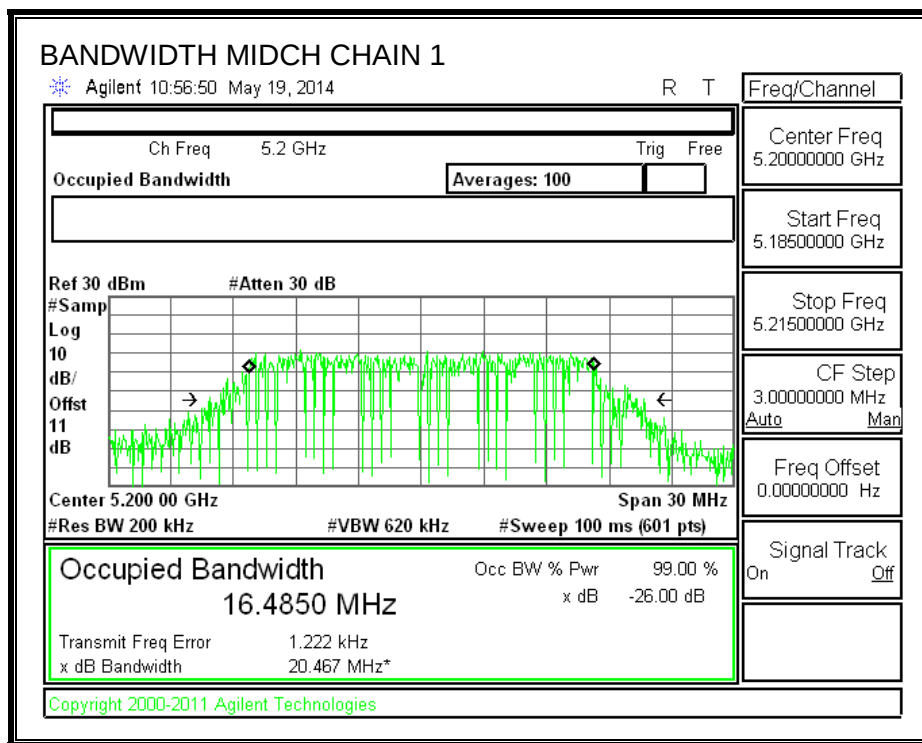
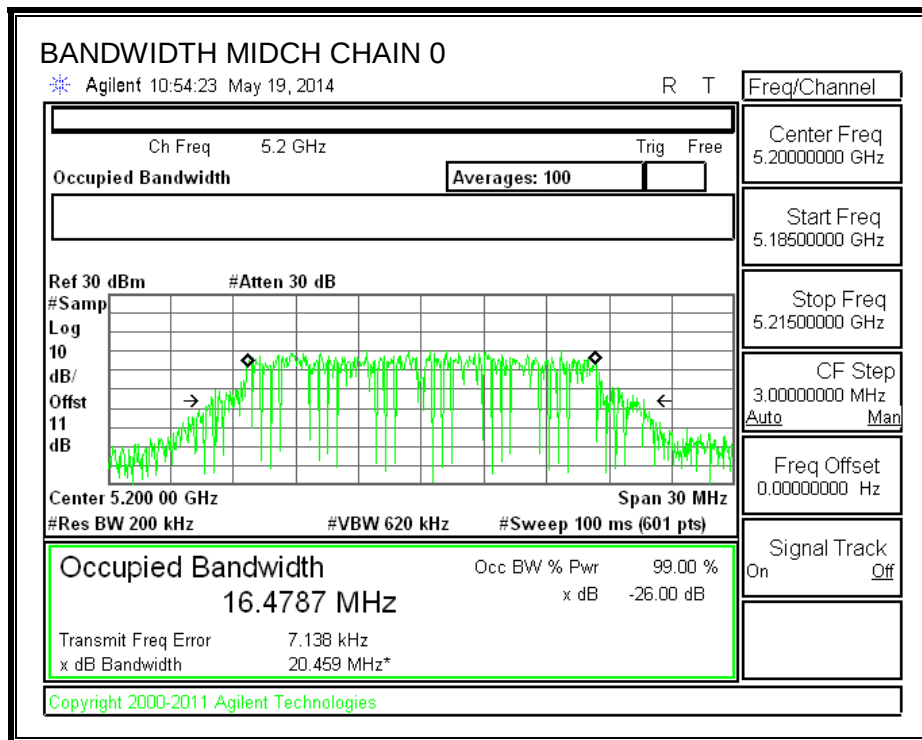
Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	5755	36.0	36.1
High	5795	36.1	36.2

10.2.16. 802.11ac HT80 MODE IN THE 5.8 GHz BAND

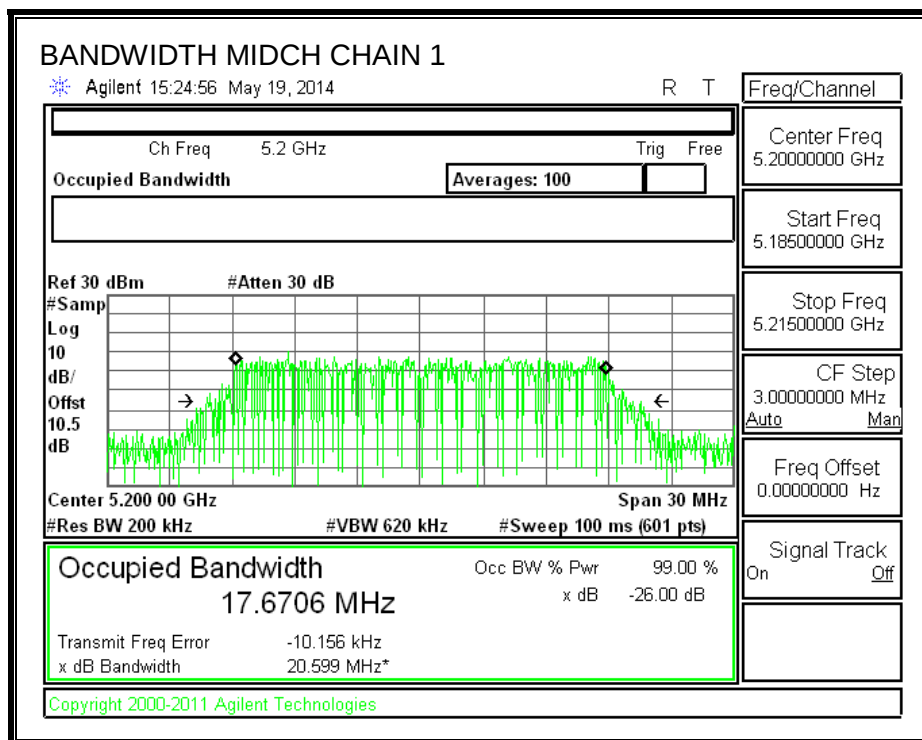
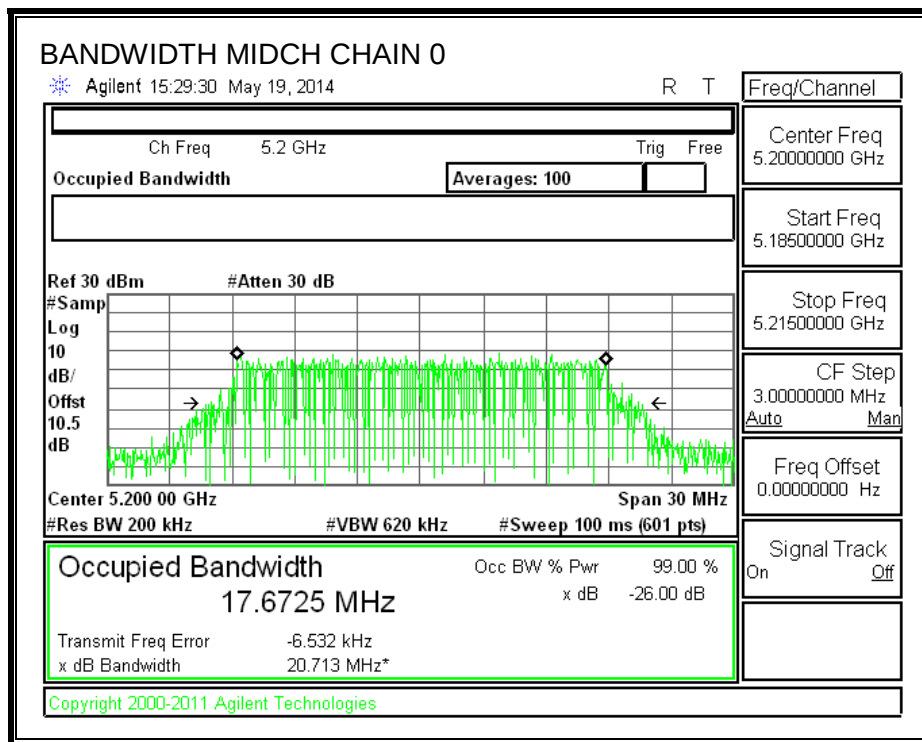
Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	5775	76.3	76.8

10.2.17. Plots

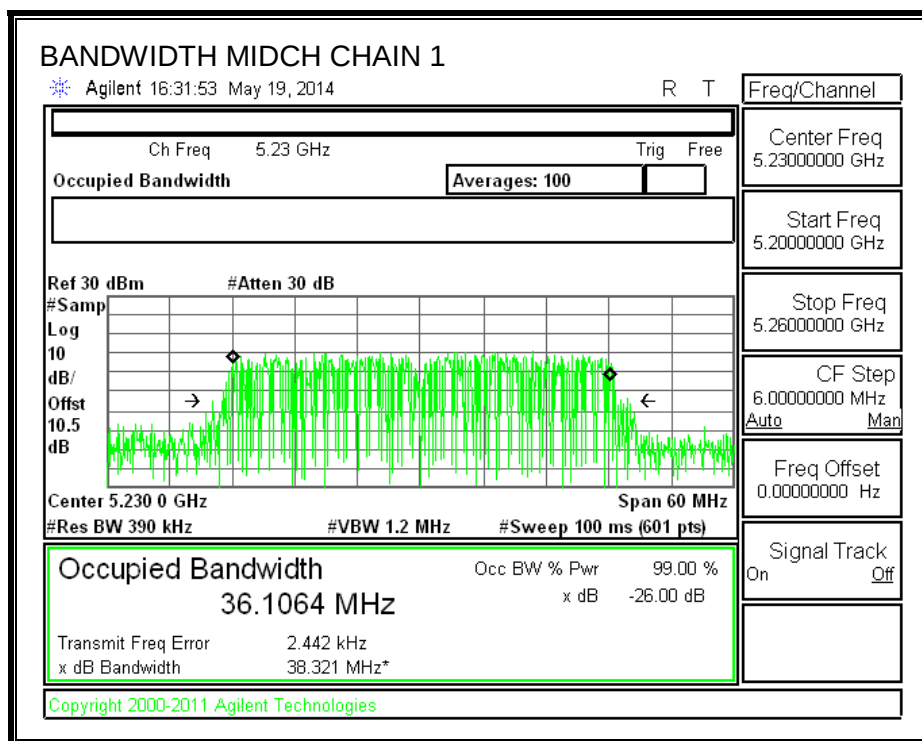
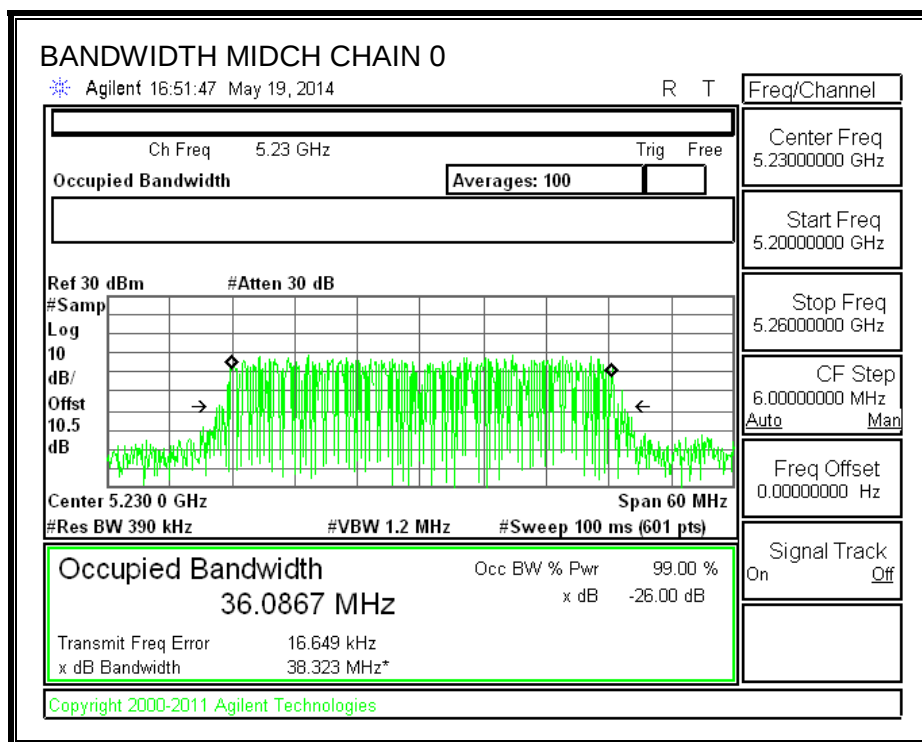
802.11a 5.2G 99% BANDWIDTH

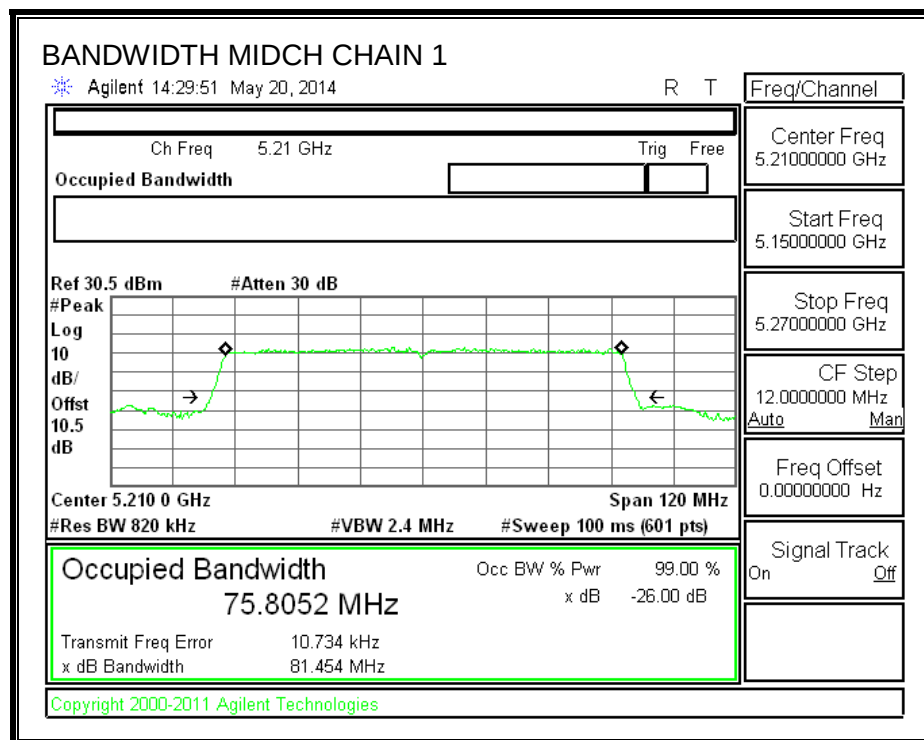
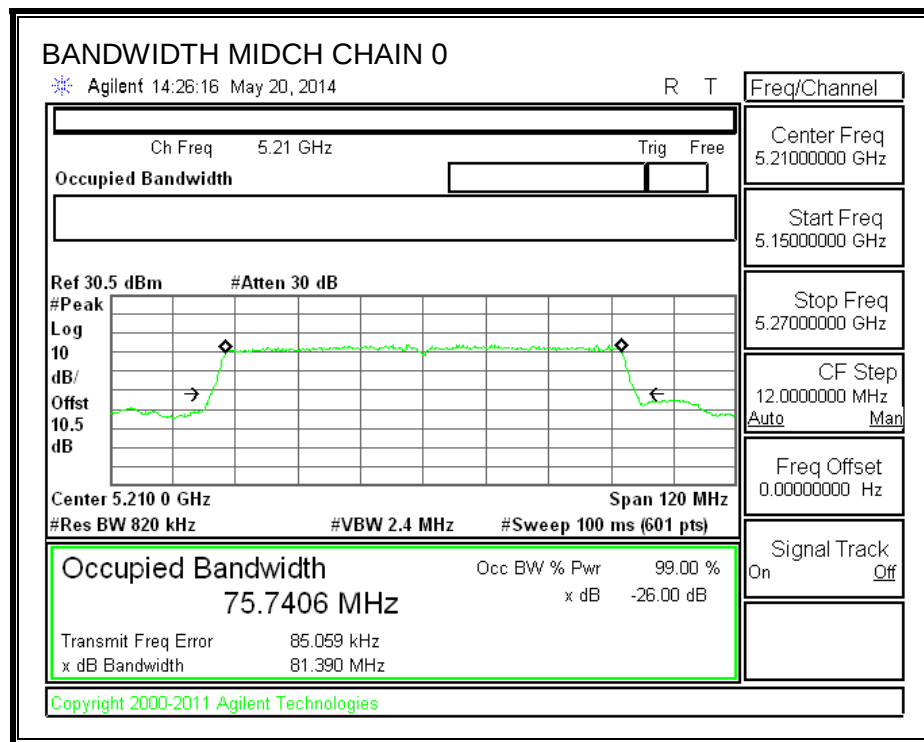


802.11n HT20 5.2G 99% BANDWIDTH

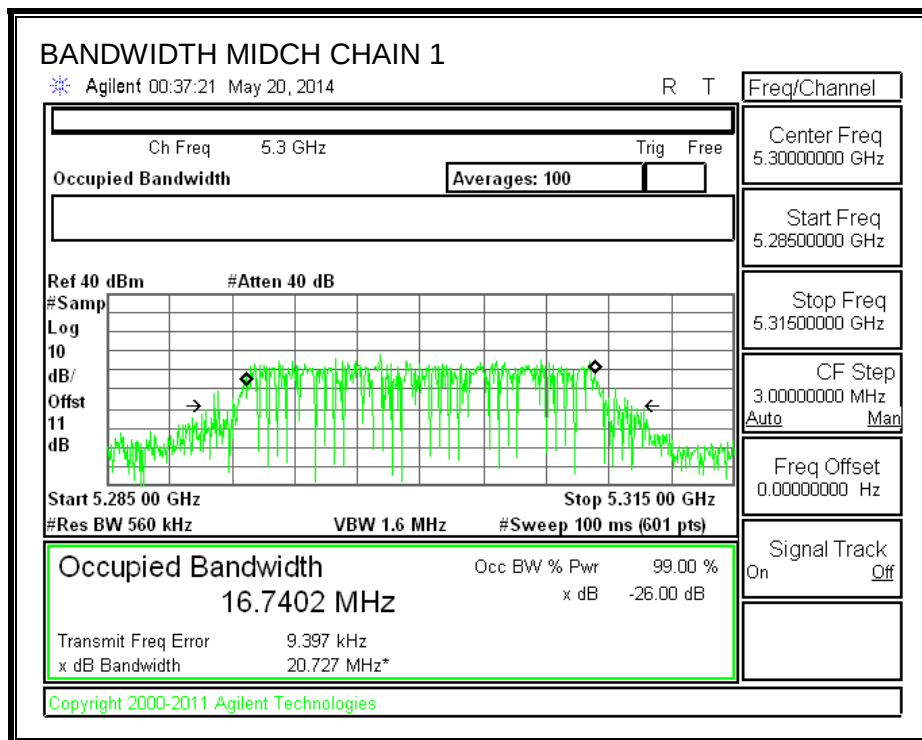
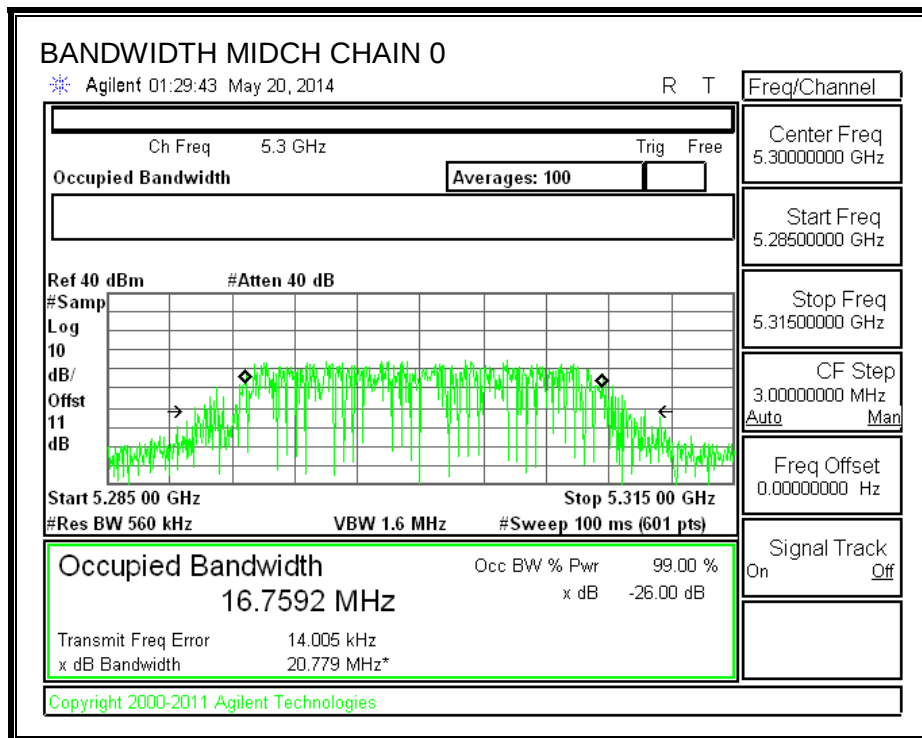


802.11n HT40 5.2G 99% BANDWIDTH

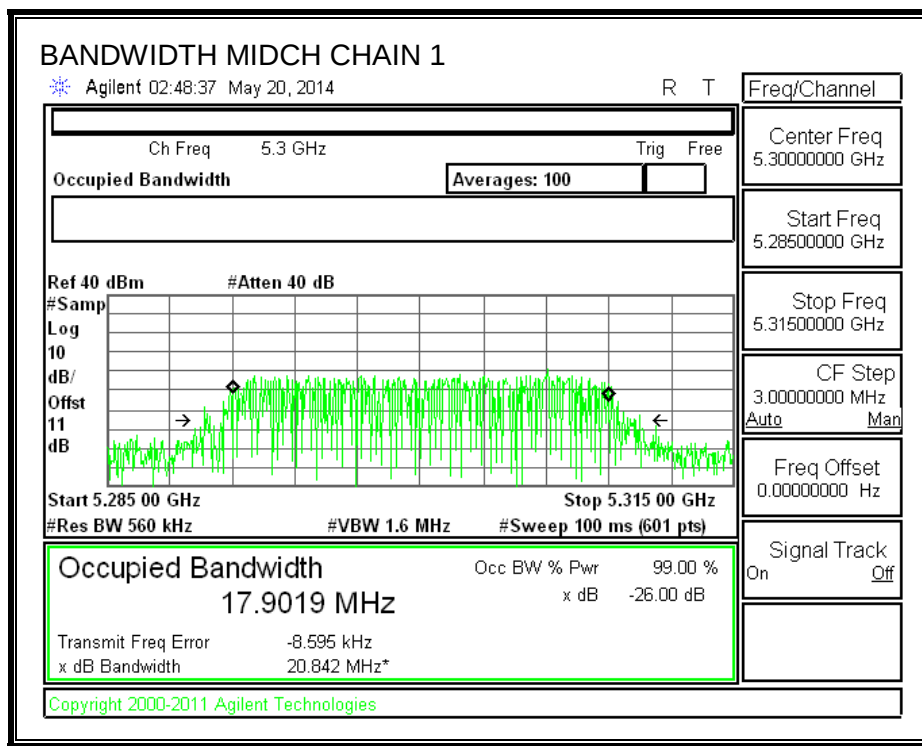
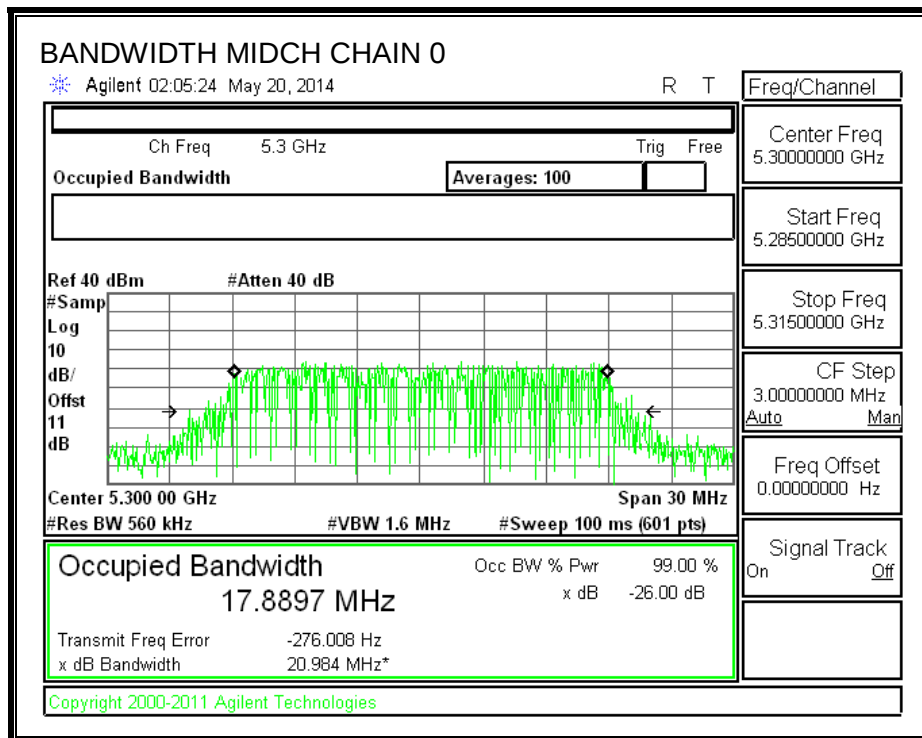




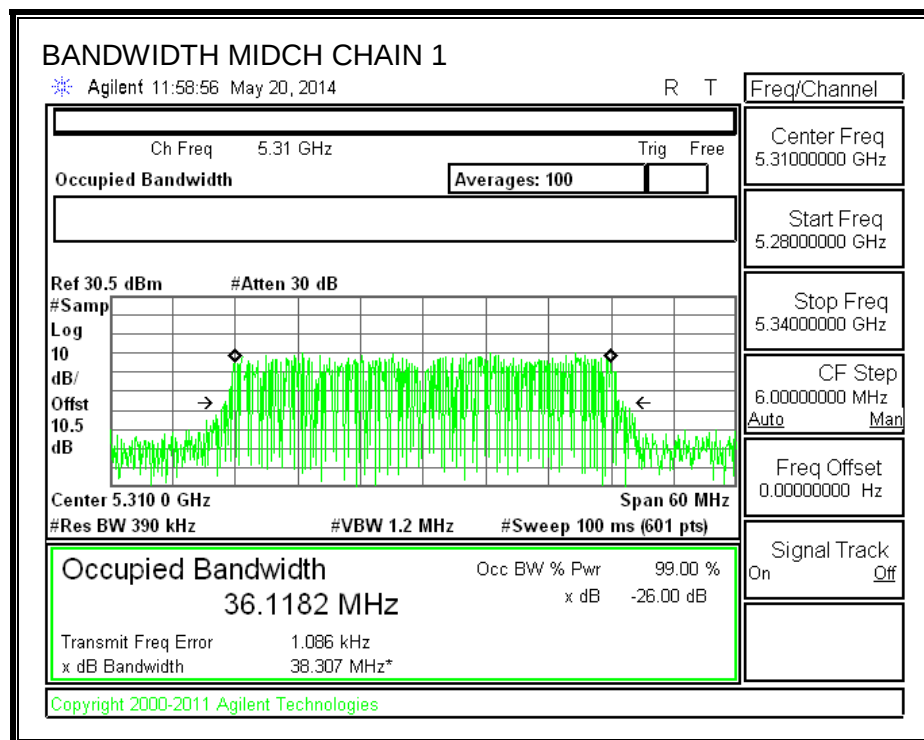
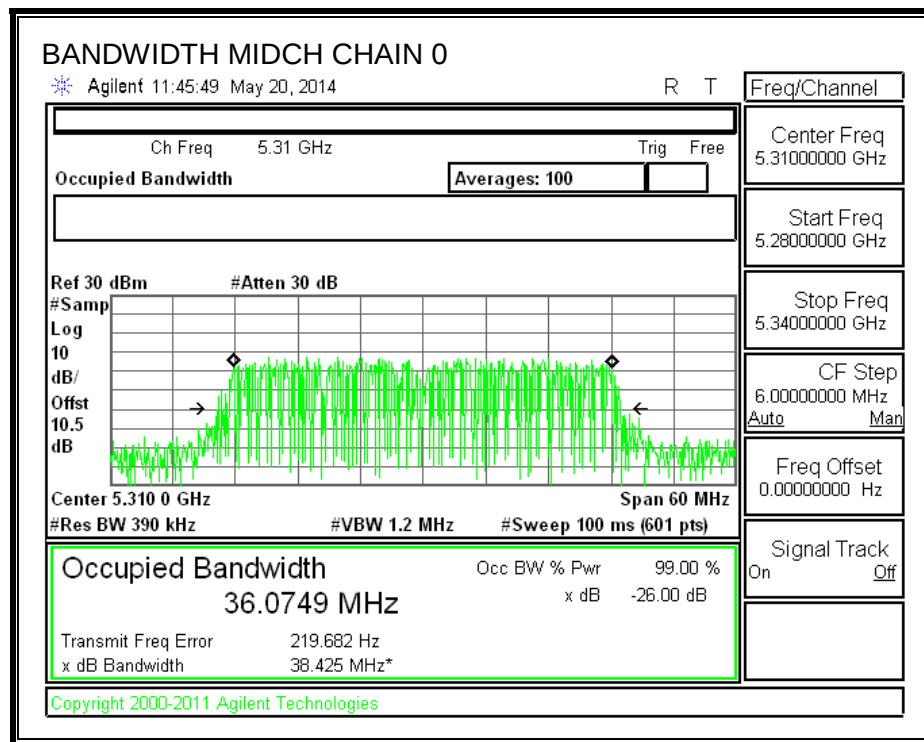
802.11a 5.3G 99% BANDWIDTH

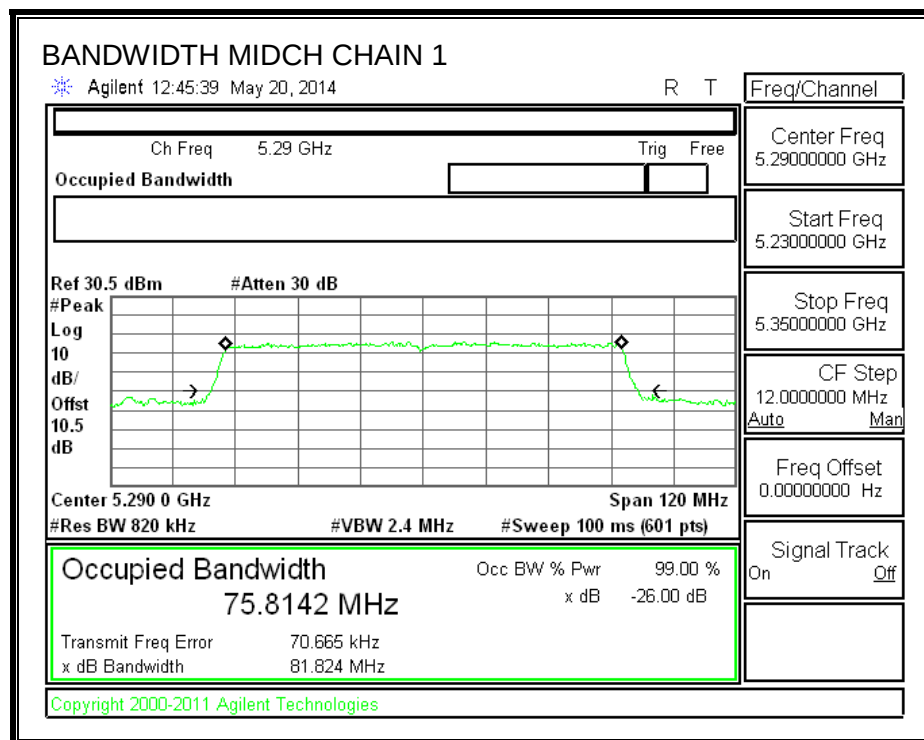
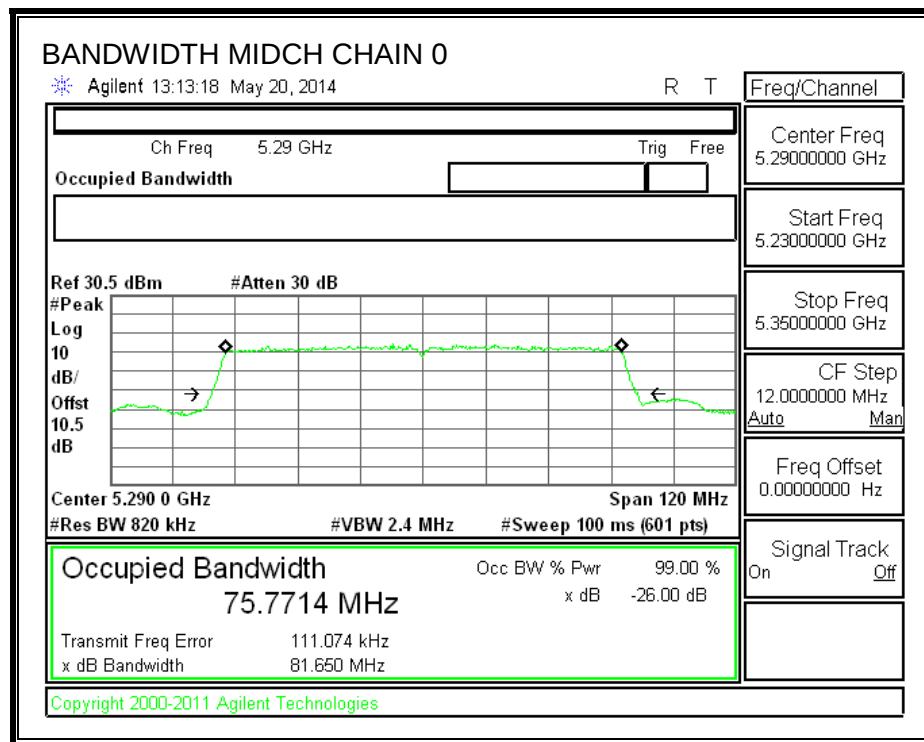


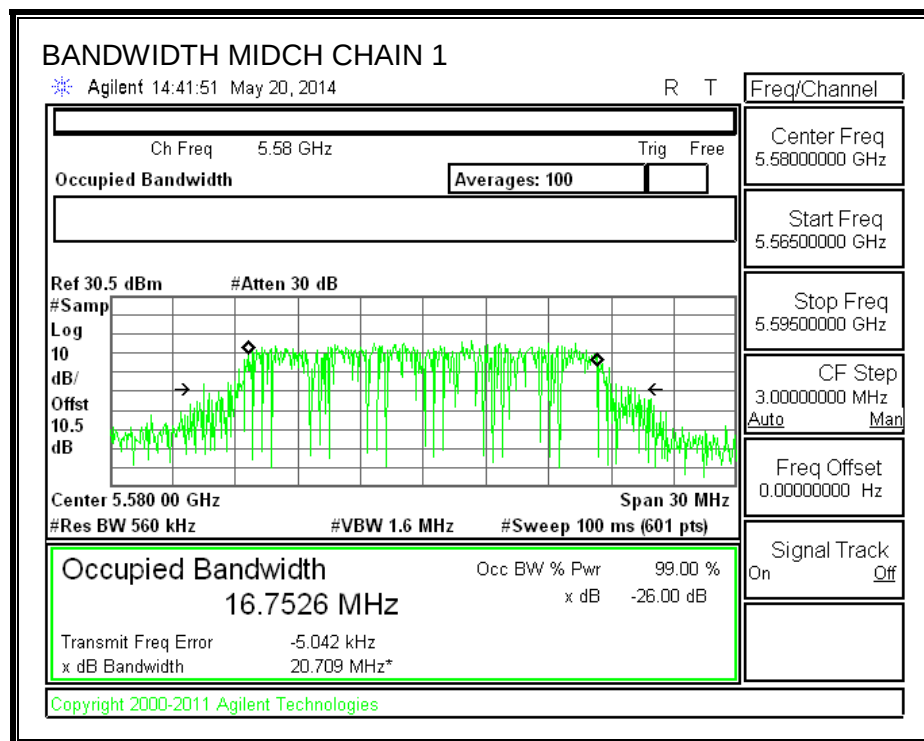
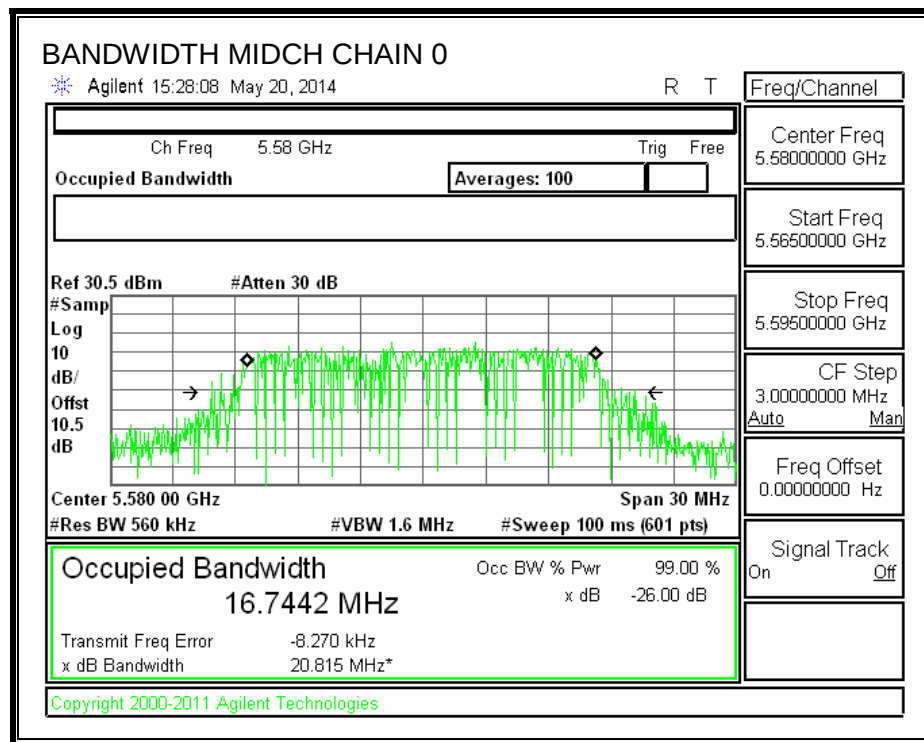
802.11n HT20 5.3G 99% BANDWIDTH

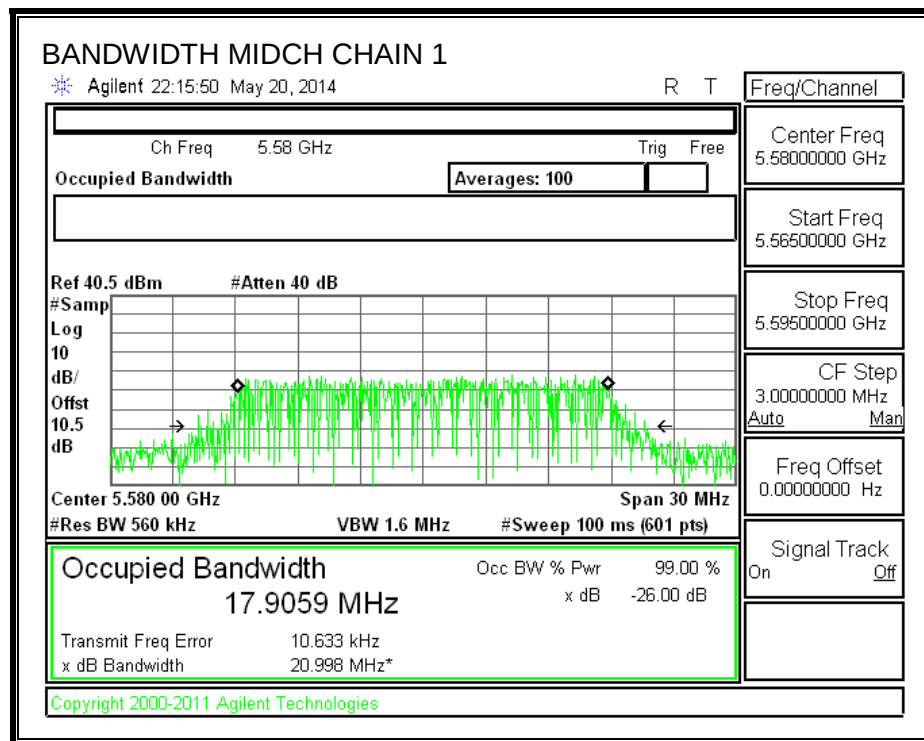
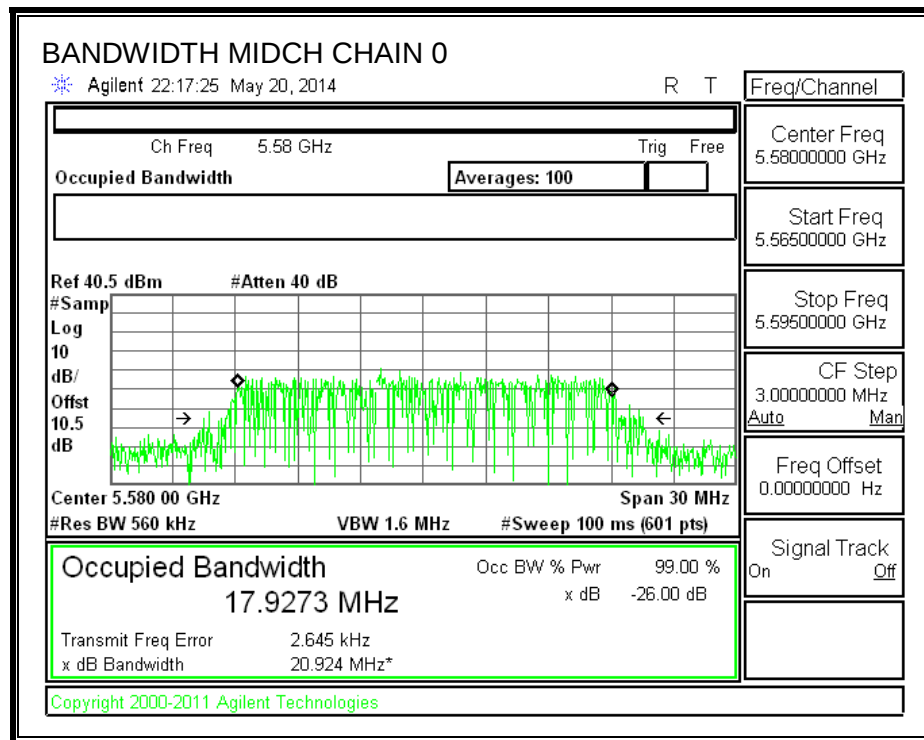


802.11n HT40 5.3G 99% BANDWIDTH

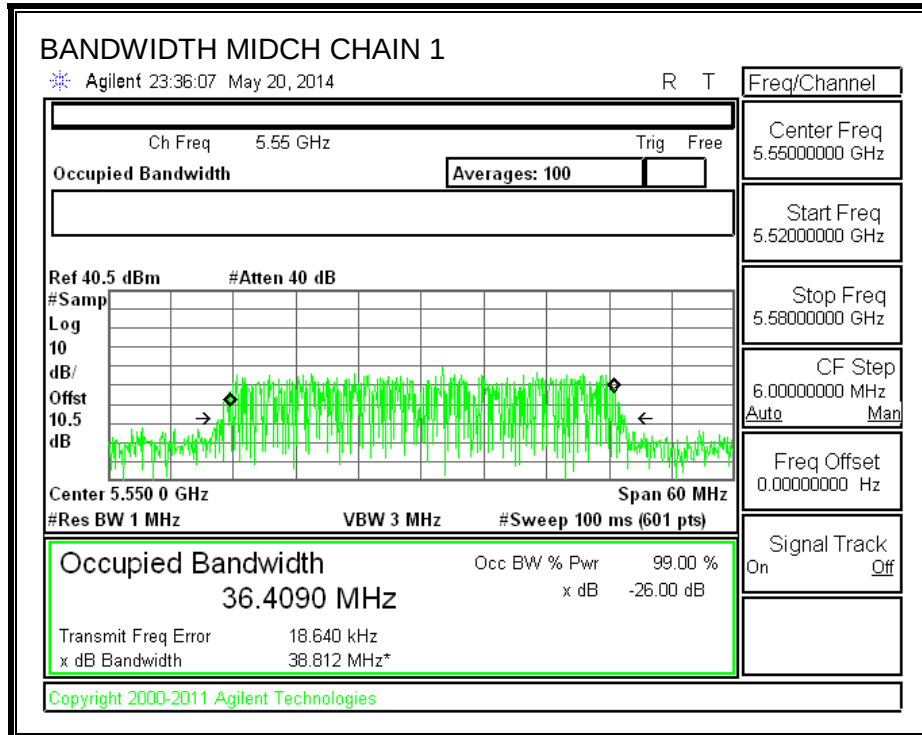
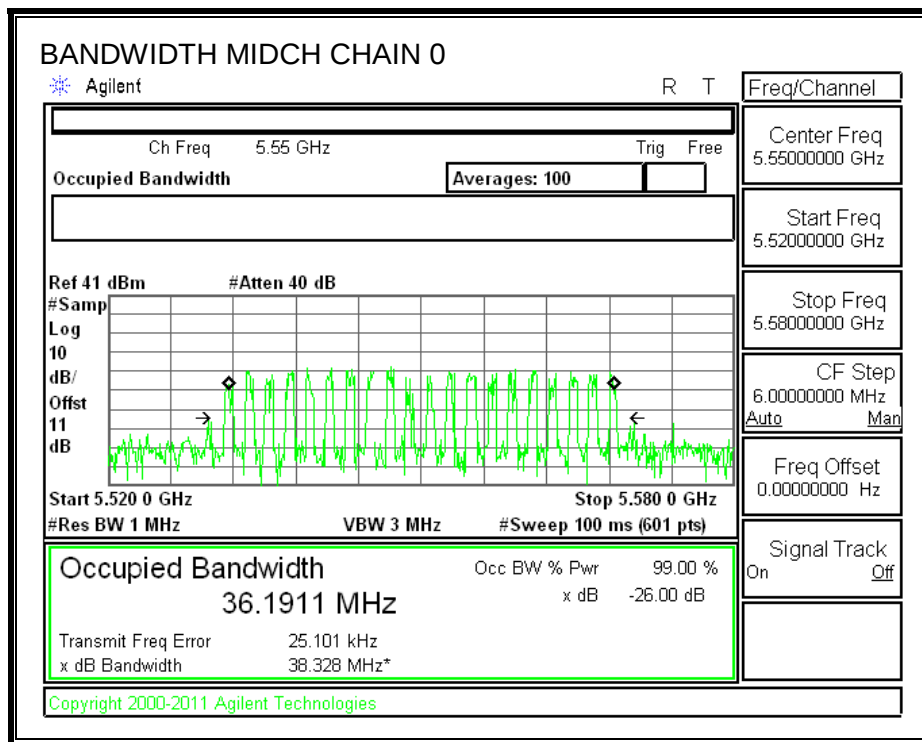


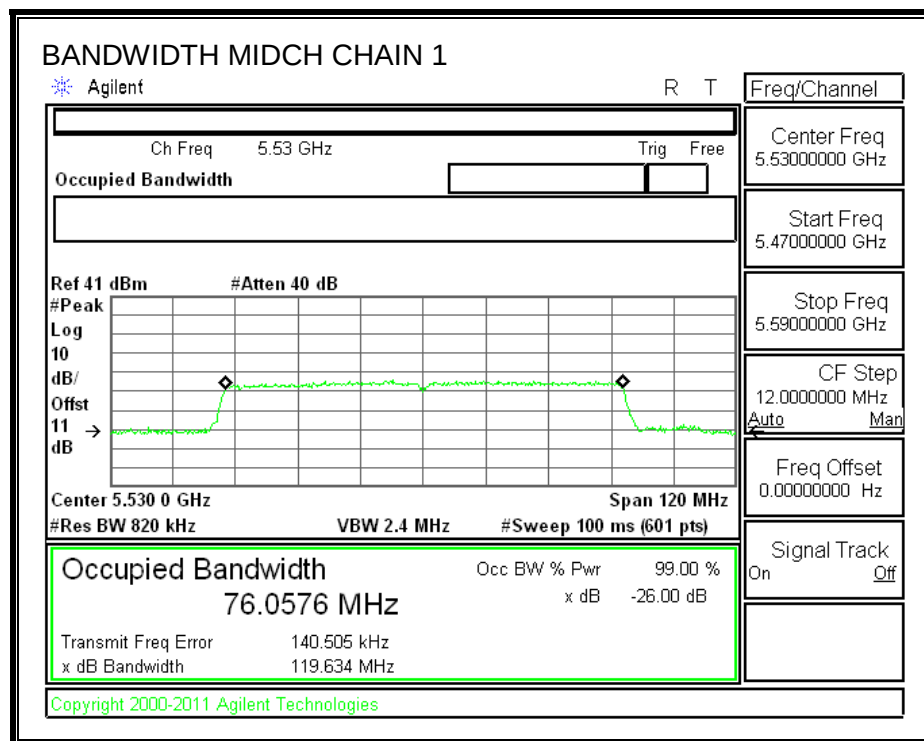
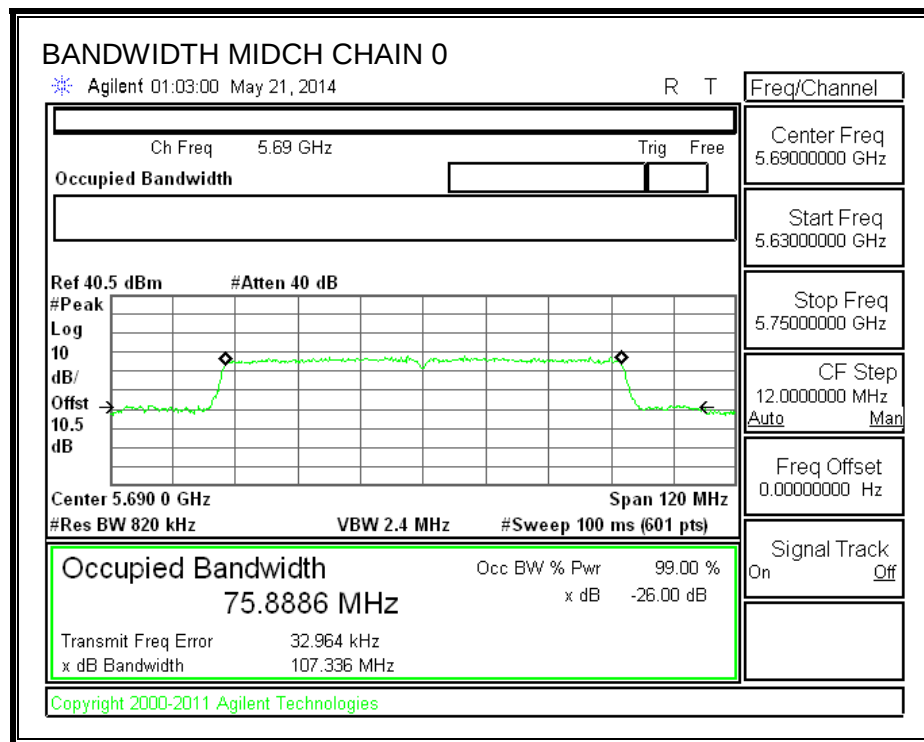


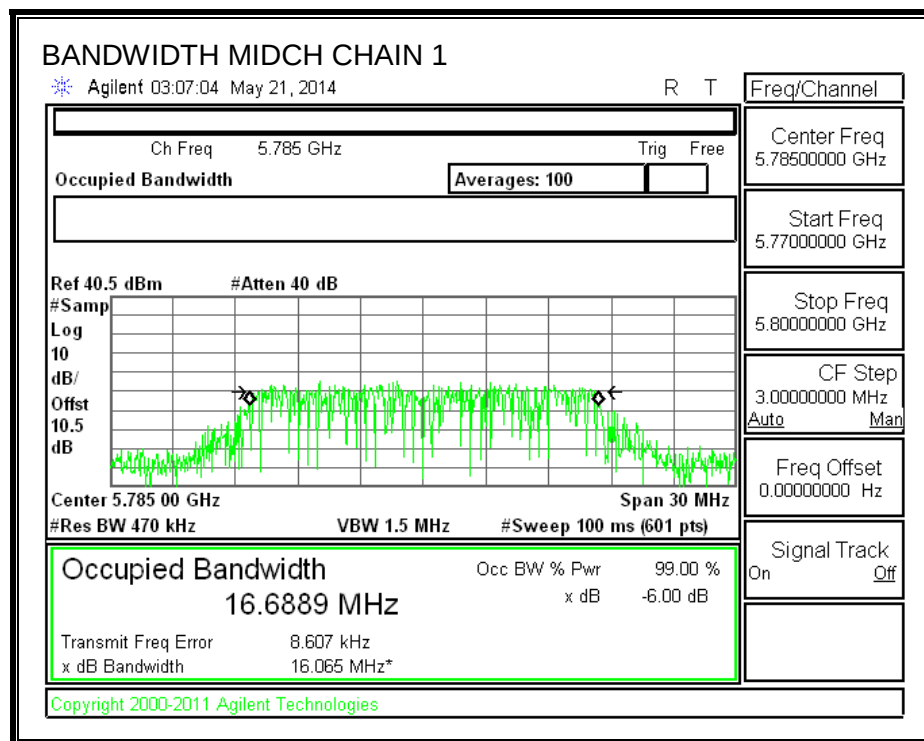
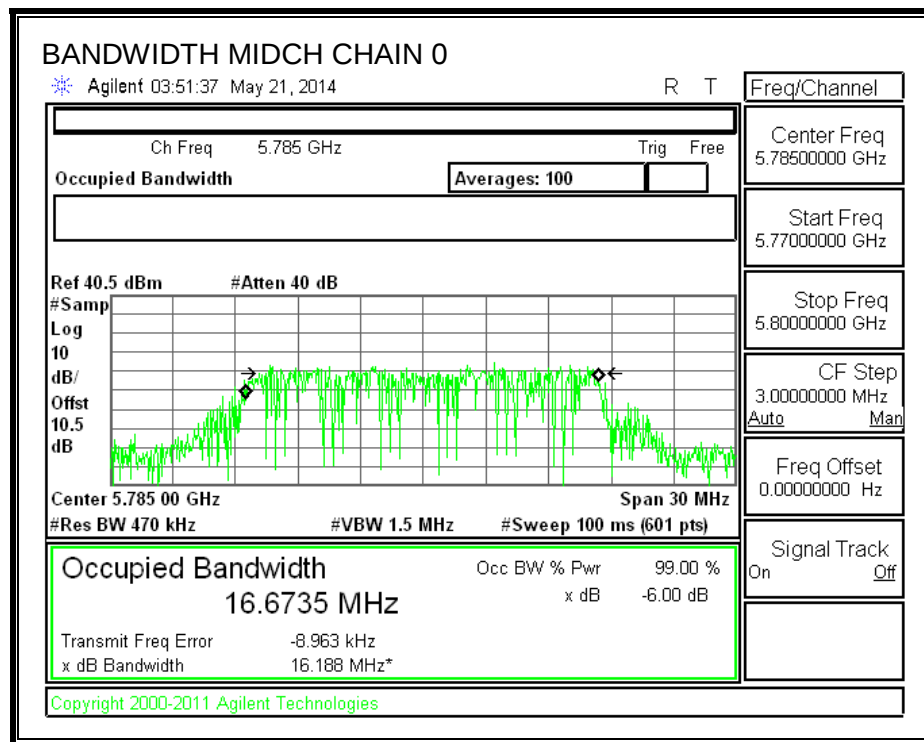


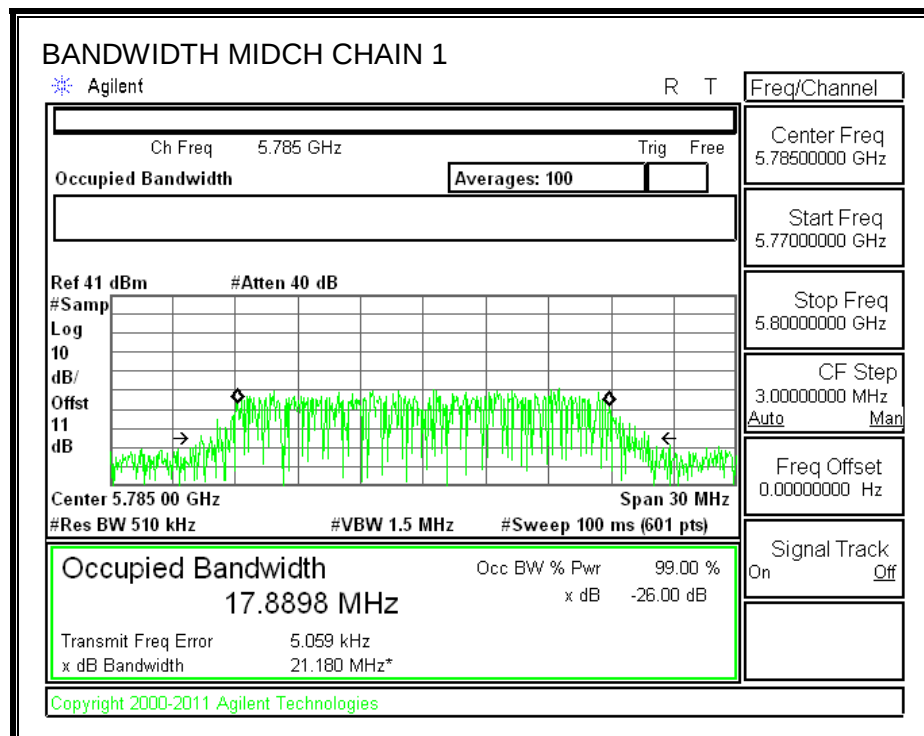
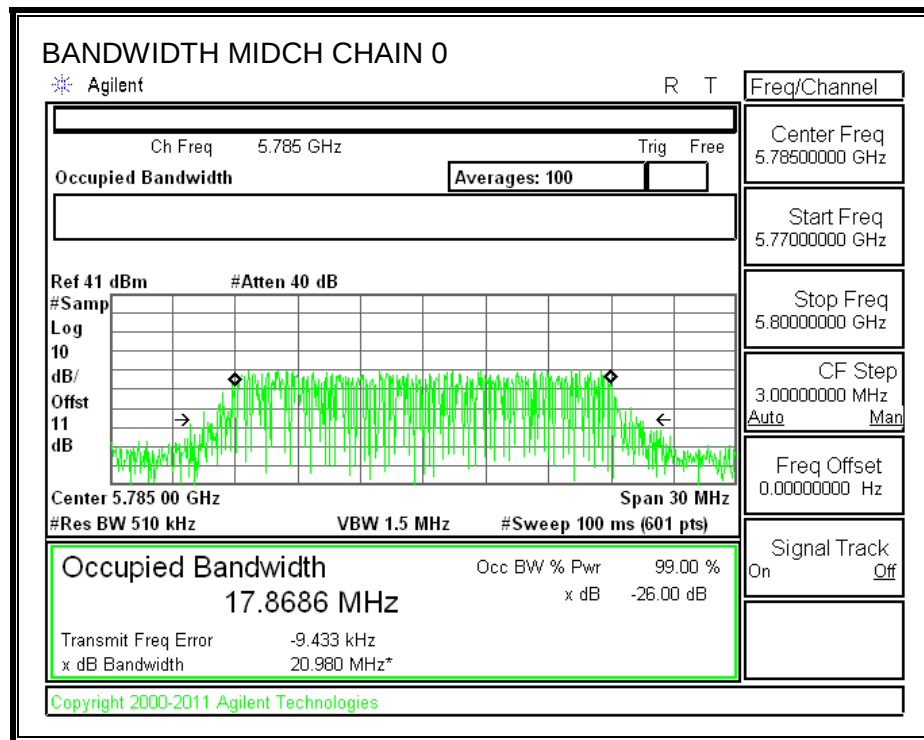
802.11n HT20 5.5G 99% BANDWIDTH

802.11n HT40 5.5G 99% BANDWIDTH

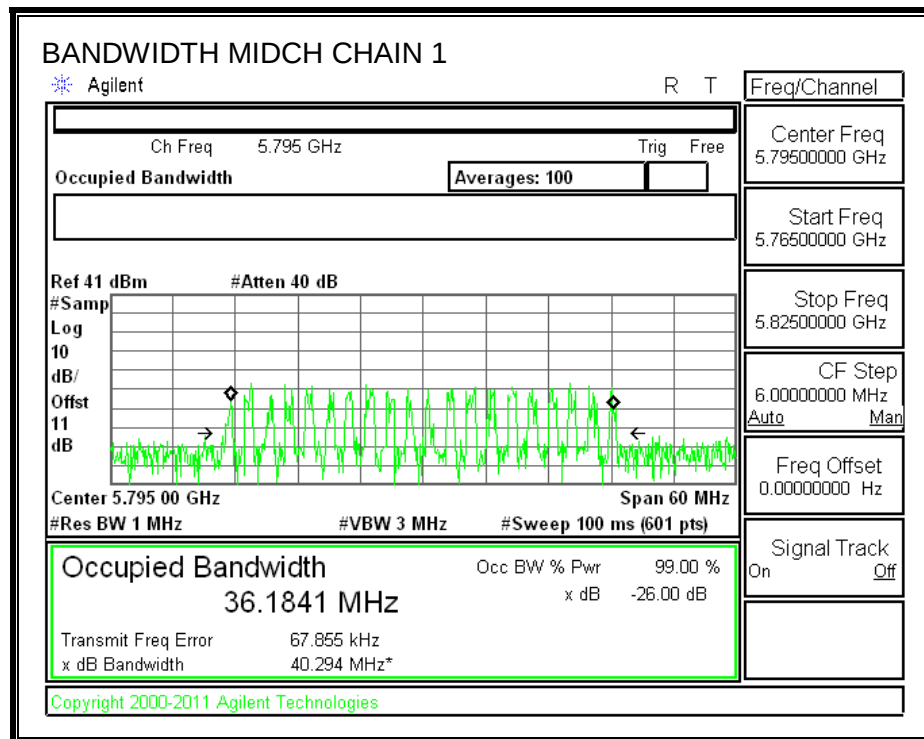
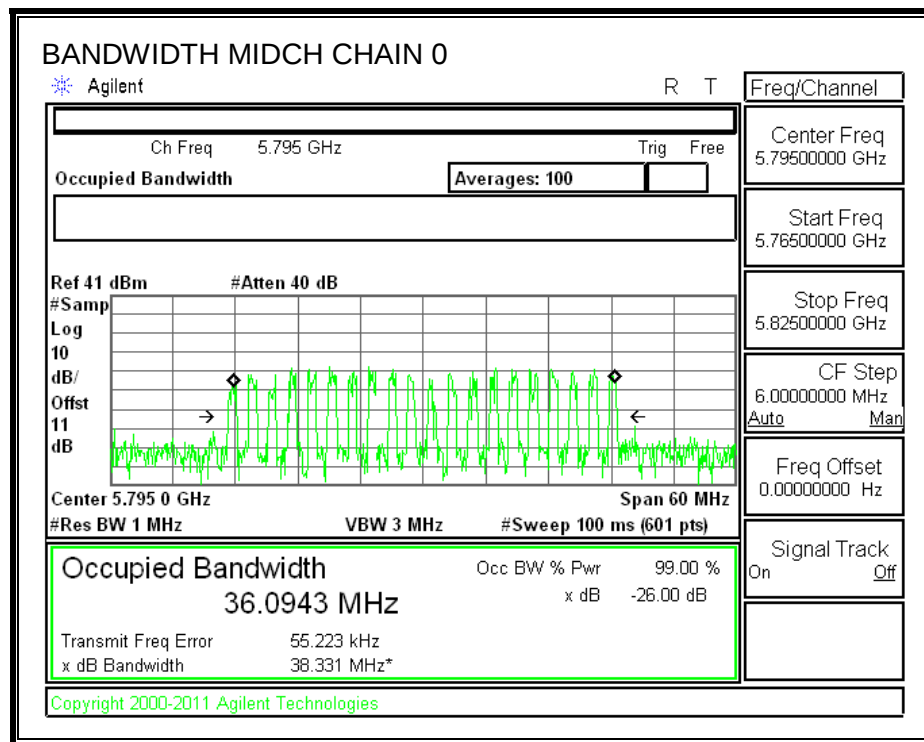




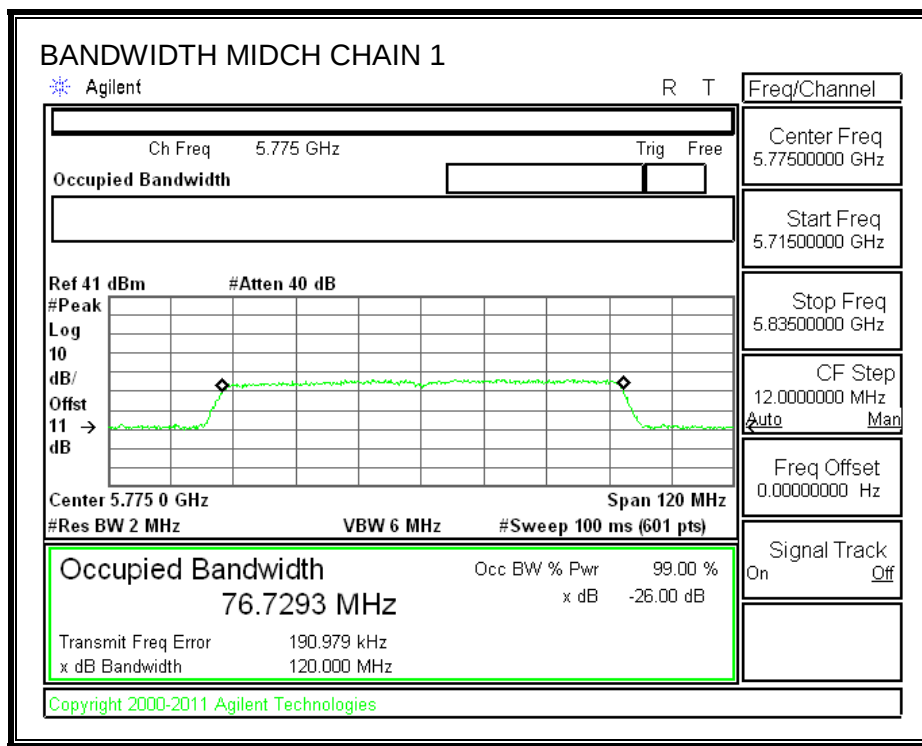
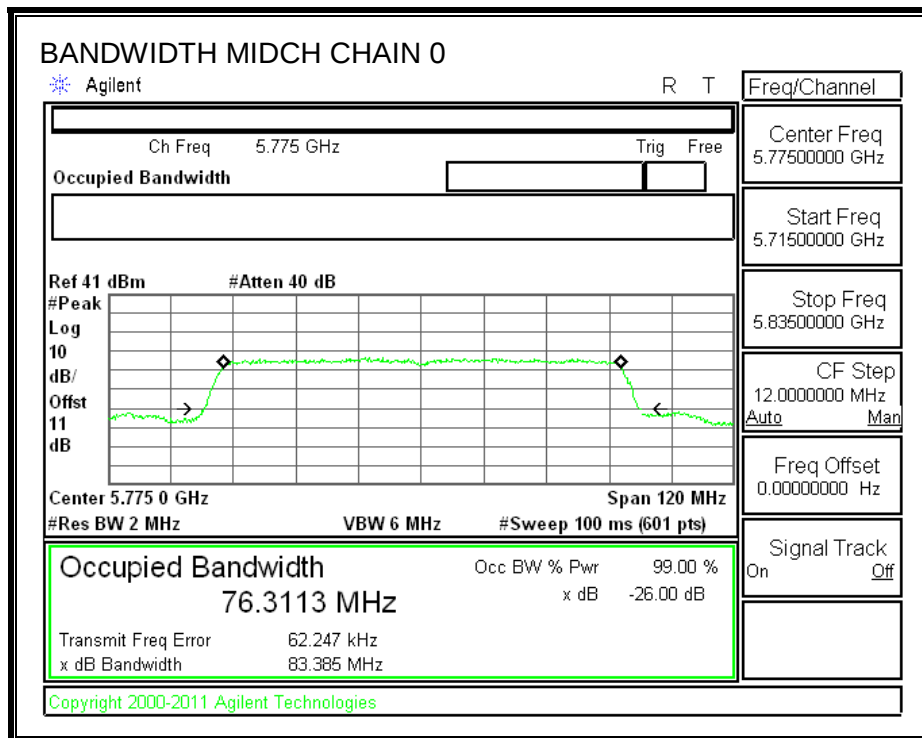


802.11n HT20 5.8G 99% BANDWIDTH

802.11n HT40 5.8G 99% BANDWIDTH



802.11ac HT80 5.8G 99% BANDWIDTH



10.3. OUTPUT POWER AND PPSD

LIMITS

FCC §15.407 (a) (1)

For the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 50 mW or 4 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the peak power spectral density shall not exceed 4 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

IC RSS-210 A9.2 (1)

The maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log₁₀ B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

DIRECTIONAL ANTENNA GAIN

For power

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
-2.01	1.35	-0.01

For PSD

The TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Correlated Chains Directional Gain (dBi)
-2.01	1.35	2.84

Test Methodology

RESULTS

10.3.1. 802.11a MODE IN THE 5.2 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Low	5180	21.80	16.5	-0.01	2.84
Mid	5200	21.80	16.5	-0.01	2.84
High	5240	21.80	16.5	-0.01	2.84

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC EIRP Limit (dBm)	Max IC Power (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC eirp PSD Limit (dBm)	PPSD Limit (dBm)
Low	5180	17.00	22.17	22.18	17.00	4.00	10.00	4.00
Mid	5200	17.00	22.17	22.18	17.00	4.00	10.00	4.00
High	5240	17.00	22.17	22.18	17.00	4.00	10.00	4.00

Duty Cycle CF (dB)	0.29	Included in Calculations of Corr'd Power & PPSD
--------------------	------	---

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	9.80	9.72	13.06	17.00	-3.94
Mid	5200	9.56	9.39	12.78	17.00	-4.22
High	5240	9.63	9.49	12.86	17.00	-4.14

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5180	-1.50	-1.59	1.76	4.00	-2.24
Mid	5200	-1.78	-1.77	1.53	4.00	-2.47
High	5240	-1.74	-1.80	1.53	4.00	-2.47

10.3.2. 802.11n HT20 MODE IN THE 5.2 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Low	5180	22.1	17.7	-0.01	2.84
Mid	5200	22.1	17.7	-0.01	2.84
High	5240	22.1	17.7	-0.01	2.84

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC EIRP Limit (dBm)	Max IC Power (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC eirp PSD Limit (dBm)	PPSD Limit (dBm)
Low	5180	17.00	22.48	22.49	17.00	4.00	10.00	4.00
Mid	5200	17.00	22.48	22.49	17.00	4.00	10.00	4.00
High	5240	17.00	22.48	22.49	17.00	4.00	10.00	4.00

Duty Cycle CF (dB)	0.60	Included in Calculations of Corr'd Power & PPSD
--------------------	------	---

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	9.52	9.20	12.97	17.00	-4.03
Mid	5200	9.32	9.84	13.20	17.00	-3.80
High	5240	9.28	9.90	13.21	17.00	-3.79

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5180	-1.96	-2.23	1.52	4.00	-2.48
Mid	5200	-2.28	-1.83	1.56	4.00	-2.44
High	5240	-2.20	-1.59	1.73	4.00	-2.27

10.3.3. 802.11n HT40 MODE IN THE 5.2 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSP (dBi)
Low	5190	40.0	36.1	-0.01	2.84
High	5230	40.1	36.1	-0.01	2.84

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC EIRP Limit (dBm)	Max IC Power (dBm)	Power Limit (dBm)	FCC PPSP Limit (dBm)	IC eirp PSD Limit (dBm)	PPSP Limit (dBm)
Low	5190	17.00	23.00	23.01	17.00	4.00	10.00	4.00
High	5230	17.00	23.00	23.01	17.00	4.00	10.00	4.00

Duty Cycle CF (dB)	1.08	Included in Calculations of Corr'd Power & PPSP
--------------------	------	---

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	10.00	9.36	13.78	17.00	-3.22
High	5230	9.90	9.28	13.69	17.00	-3.31

PPSP Results

Channel	Frequency (MHz)	Chain 0 Meas PPSP (dBm)	Chain 1 Meas PPSP (dBm)	Total Corr'd PPSP (dBm)	PPSP Limit (dBm)	PPSP Margin (dB)
Low	5190	-3.66	-4.49	0.04	4.00	-3.96
High	5230	-3.41	-4.58	0.13	4.00	-3.87

10.3.4. 802.11ac HT80 MODE IN THE 5.2 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Low	5210	82.0	75.7	-0.01	2.84

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC EIRP Limit (dBm)	Max IC Power (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC eirp PSD Limit (dBm)	PPSD Limit (dBm)
Low	5210	17.00	23.00	23.01	17.00	4.00	10.00	4.00

Duty Cycle CF (dB)	3.98	Included in Calculations of Corr'd Power & PPSD
---------------------------	------	--

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5210	9.94	9.51	16.72	17.00	-0.28

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5210	-6.49	-7.51	0.02	4.00	-3.98

10.3.5. 802.11a MODE IN THE 5.3 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Low	5260	22.20	16.70	-0.01	2.84
Mid	5300	22.20	16.70	-0.01	2.84
High	5320	22.30	16.70	-0.01	2.84

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Low	5260	24.00	23.23	29.23	23.23	11.00	11.00	11.00
Mid	5300	24.00	23.23	29.23	23.23	11.00	11.00	11.00
High	5320	24.00	23.23	29.23	23.23	11.00	11.00	11.00

Duty Cycle CF (dB)	0.29	Included in Calculations of Corr'd Power & PPSD
--------------------	------	---

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	9.73	9.26	12.80	23.23	-10.43
Mid	5300	9.73	10.08	13.21	23.23	-10.02
High	5320	9.85	9.73	13.09	23.23	-10.14

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5260	-1.60	-1.86	1.57	11.00	-9.43
Mid	5300	-1.27	-1.32	2.01	11.00	-8.99
High	5320	-1.49	-1.65	1.73	11.00	-9.27

10.3.6. 802.11n HT20 MODE IN THE 5.3 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Low	5260	22.5	17.9	-0.01	2.84
Mid	5300	22.4	17.9	-0.01	2.84
High	5320	22.4	17.9	-0.01	2.84

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Low	5260	24.00	23.53	29.53	23.53	11.00	11.00	11.00
Mid	5300	24.00	23.53	29.53	23.53	11.00	11.00	11.00
High	5320	24.00	23.53	29.53	23.53	11.00	11.00	11.00

Duty Cycle CF (dB)	0.60	Included in Calculations of Corr'd Power & PPSD
--------------------	------	---

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	9.03	10.43	13.40	23.53	-10.13
Mid	5300	10.06	10.31	13.80	23.53	-9.73
High	5320	10.20	10.69	14.06	23.53	-9.47

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5260	-1.49	-0.50	2.64	11.00	-8.36
Mid	5300	-0.87	-0.38	2.99	11.00	-8.01
High	5320	-0.78	-0.03	3.22	11.00	-7.78

10.3.7. 802.11n HT40 MODE IN THE 5.3 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSP (dBi)
Low	5270	40.0	36.1	-0.01	2.84
High	5310	40.0	36.1	-0.01	2.84

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSP Limit (dBm)	IC PSD Limit (dBm)	PPSP Limit (dBm)
Low	5270	24.00	24.00	30.00	24.00	11.00	11.00	11.00
High	5310	24.00	24.00	30.00	24.00	11.00	11.00	11.00

Duty Cycle CF (dB)	1.08	Included in Calculations of Corr'd Power & PPSP
--------------------	------	---

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5270	9.86	9.77	13.91	24.00	-10.09
High	5310	10.18	9.50	13.94	24.00	-10.06

PPSP Results

Channel	Frequency (MHz)	Chain 0 Meas PPSP (dBm)	Chain 1 Meas PPSP (dBm)	Total Corr'd PPSP (dBm)	PPSP Limit (dBm)	PPSP Margin (dB)
Low	5270	-3.01	-2.74	1.22	11.00	-9.78
High	5310	-3.19	-3.81	0.60	11.00	-10.40

10.3.8. 802.11ac HT80 MODE IN THE 5.3 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Low	5290	82.0	75.8	-0.01	2.84

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Low	5290	24.00	24.00	30.00	24.00	11.00	11.00	11.00

Duty Cycle CF (dB)	3.98	Included in Calculations of Corr'd Power & PPSP
--------------------	------	---

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5290	9.80	9.64	16.71	24.00	-7.29

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5290	-5.82	-7.20	0.53	11.00	-10.47

10.3.9. 802.11a MODE IN THE 5.5 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Low	5500	22.30	16.70	-0.01	2.84
Mid	5580	22.30	16.70	-0.01	2.84
High	5700	22.30	16.70	-0.01	2.84

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Low	5500	24.00	23.23	29.23	23.23	11.00	11.00	11.00
Mid	5580	24.00	23.23	29.23	23.23	11.00	11.00	11.00
High	5700	24.00	23.23	29.23	23.23	11.00	11.00	11.00

Duty Cycle CF (dB)	0.29	Included in Calculations of Corr'd Power & PPSD
--------------------	------	---

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	10.06	9.41	13.05	23.23	-10.18
Mid	5580	9.67	9.26	12.77	23.23	-10.46
High	5700	10.16	10.02	13.39	23.23	-9.84

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5500	-1.03	-1.78	1.91	11.00	-9.09
Mid	5580	-1.75	-1.99	1.43	11.00	-9.57
High	5700	-1.18	-1.01	2.21	11.00	-8.79

10.3.10. 802.11n HT20 MODE IN THE 5.5 GHz BAND

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Low	5500	22.60	17.90	-0.01	2.84
Mid	5580	22.40	17.90	-0.01	2.84
High	5700	22.60	17.90	-0.01	2.84

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Low	5500	24.00	23.53	29.53	23.53	11.00	11.00	11.00
Mid	5580	24.00	23.53	29.53	23.53	11.00	11.00	11.00
High	5700	24.00	23.53	29.53	23.53	11.00	11.00	11.00

Duty Cycle CF (dB)	0.60	Included in Calculations of Corr'd Power & PPSD
--------------------	------	---

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	9.54	10.11	13.44	23.53	-10.08
Mid	5580	9.98	9.93	13.57	23.53	-9.96
High	5700	9.42	10.03	13.34	23.53	-10.19

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5500	-1.14	-1.40	2.34	11.00	-8.66
Mid	5580	-1.06	-1.63	2.27	11.00	-8.73
High	5700	-1.56	-1.45	2.11	11.00	-8.89

10.3.11. 802.11n HT40 MODE IN THE 5.5 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Low	5510	41.60	36.40	-0.01	2.84
Mid	5550	41.50	36.40	-0.01	2.84
High	5670	41.60	36.40	-0.01	2.84

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Low	5510	24.00	24.00	30.00	24.00	11.00	11.00	11.00
Mid	5550	24.00	24.00	30.00	24.00	11.00	11.00	11.00
High	5670	24.00	24.00	30.00	24.00	11.00	11.00	11.00

Duty Cycle CF (dB)	1.08	Included in Calculations of Corr'd Power & PPSP
--------------------	------	---

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5510	9.27	9.51	13.48	24.00	-10.52
Mid	5550	9.53	9.43	13.57	24.00	-10.43
High	5670	10.21	9.15	13.80	24.00	-10.20

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5510	-4.33	-4.19	-0.17	11.00	-11.17
Mid	5550	-3.98	-4.05	0.08	11.00	-10.92
High	5670	-2.61	-4.51	0.63	11.00	-10.37

10.3.12. 802.11ac HT80 MODE IN THE 5.5 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Low	5530	83.90	76.00	-0.01	2.84

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Low	5530	24.00	24.00	30.00	24.00	11.00	11.00	11.00
Duty Cycle CF (dB)		3.98	Included in Calculations of Corr'd Power & PPSD					

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	9.26	9.74	16.50	24.00	-7.50

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5530	-7.28	-7.06	-0.18	11.00	-11.18

10.3.13. 802.11a MODE IN THE 5.8 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Low	5745	22.44	16.67	-0.01	2.84
Mid	5785	22.26	16.67	-0.01	2.84
High	5825	22.47	16.68	-0.01	2.84

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Low	5745	24.00	23.22	29.22	23.22	11.00	11.00	11.00
Mid	5785	24.00	23.22	29.22	23.22	11.00	11.00	11.00
High	5825	24.00	23.22	29.22	23.22	11.00	11.00	11.00

Duty Cycle CF (dB)	0.29	Included in Calculations of Corr'd Power & PPSD
--------------------	------	---

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	9.22	9.53	12.68	23.22	-10.54
Mid	5785	9.20	9.45	12.63	23.22	-10.59
High	5825	9.15	9.74	12.75	23.22	-10.47

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5745	-2.18	-1.77	1.33	11.00	-9.67
Mid	5785	-2.10	-1.80	1.35	11.00	-9.65
High	5825	-2.16	-1.52	1.47	11.00	-9.53

10.3.14. 802.11n HT20 MODE IN THE 5.8 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Low	5745	22.53	17.86	-0.01	2.84
Mid	5785	22.47	17.86	-0.01	2.84
High	5825	22.53	17.87	-0.01	2.84

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Low	5745	24.00	23.52	29.52	23.52	11.00	11.00	11.00
Mid	5785	24.00	23.52	29.52	23.52	11.00	11.00	11.00
High	5825	24.00	23.52	29.52	23.52	11.00	11.00	11.00

Duty Cycle CF (dB)	0.60	Included in Calculations of Corr'd Power & PPSD
--------------------	------	---

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	9.63	9.36	13.11	23.52	-10.41
Mid	5785	9.33	10.00	13.29	23.52	-10.23
High	5825	9.42	10.19	13.43	23.52	-10.09

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5745	-1.52	-1.66	2.02	11.00	-8.98
Mid	5785	-1.81	-0.47	2.52	11.00	-8.48
High	5825	-1.68	-0.58	2.52	11.00	-8.48

10.3.15. 802.11n HT40 MODE IN THE 5.8 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Low	5755	41.0	36.0	-0.01	2.84
High	5795	40.9	36.1	-0.01	2.84

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Low	5755	24.00	24.00	30.00	24.00	11.00	11.00	11.00
High	5795	24.00	24.00	30.00	24.00	11.00	11.00	11.00

Duty Cycle CF (dB)	1.08	Included in Calculations of Corr'd Power & PPSD
--------------------	------	---

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5755	9.19	10.04	13.73	24.00	-10.27
High	5795	10.11	9.63	13.97	24.00	-10.03

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5755	-4.39	-3.96	-0.08	11.00	-11.08
High	5795	-3.78	-4.05	0.18	11.00	-10.82

10.3.16. 802.11ac HT80 MODE IN THE 5.8 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Low	5775	83.76	76.30	-0.01	2.84

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Low	5775	24.00	24.00	30.00	24.00	11.00	11.00	11.00

Duty Cycle CF (dB)	3.98	Included in Calculations of Corr'd Power & PPSD
---------------------------	------	--

Output Power Results

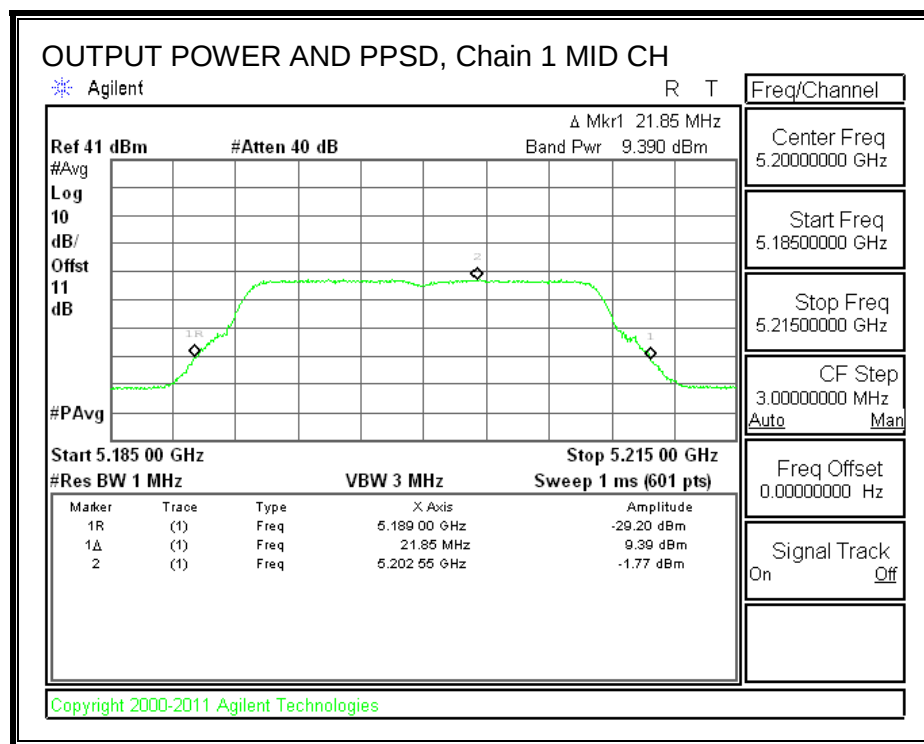
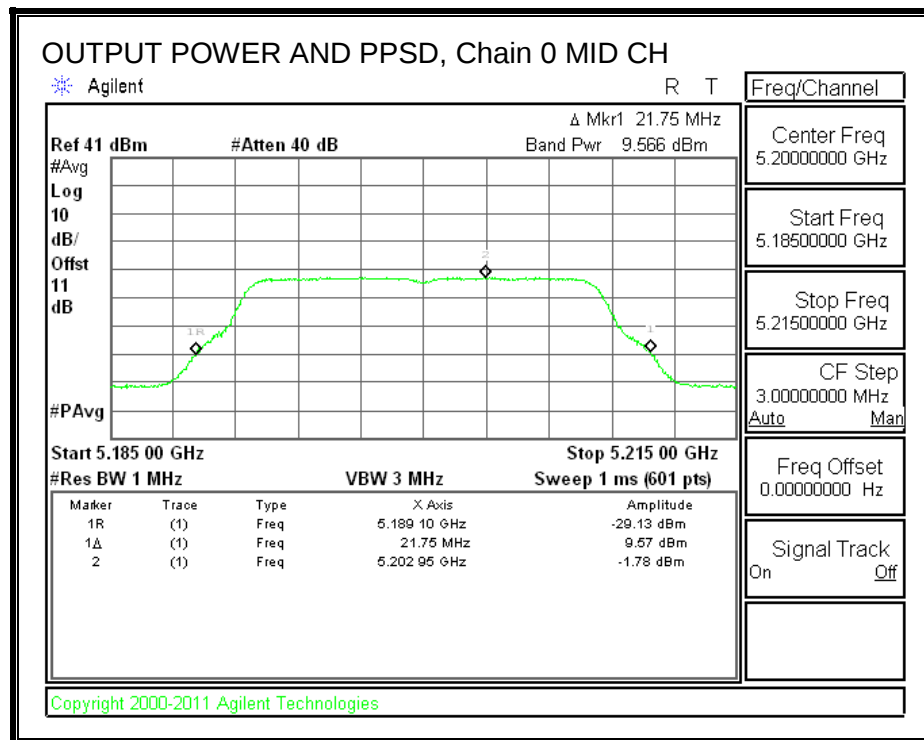
Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5775	9.39	10.31	16.86	24.00	-7.14

PPSD Results

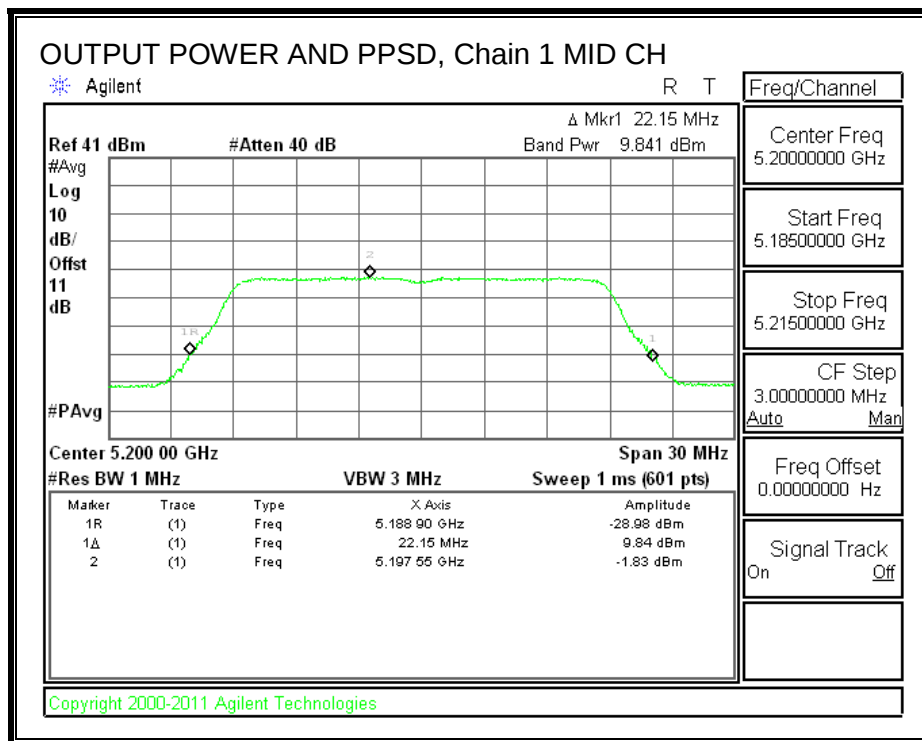
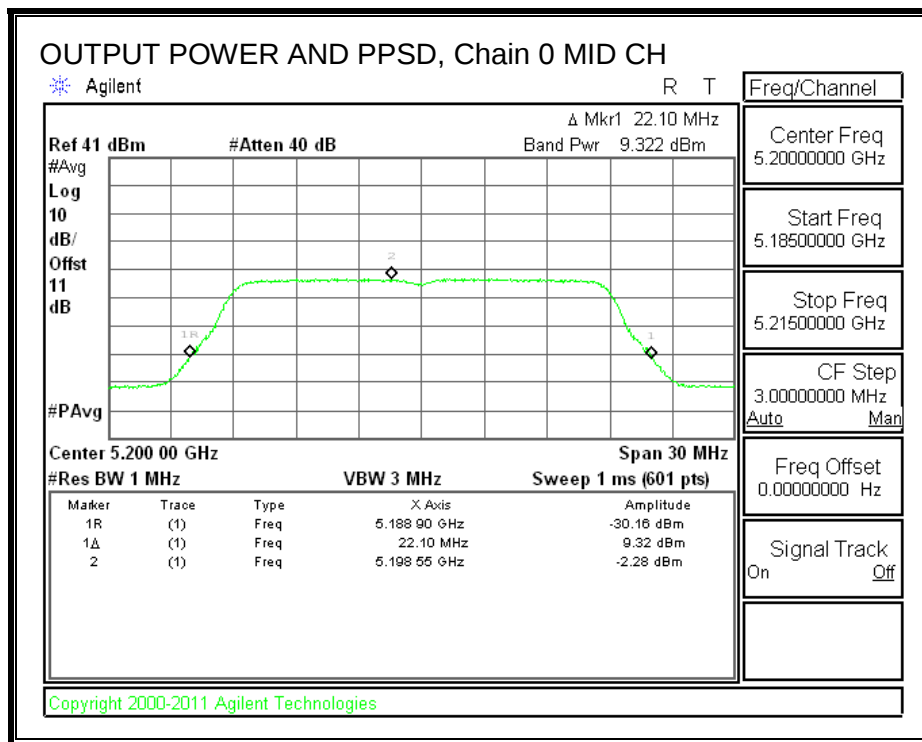
Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5775	-7.07	-6.39	0.27	11.00	-10.73

10.3.17. Plots

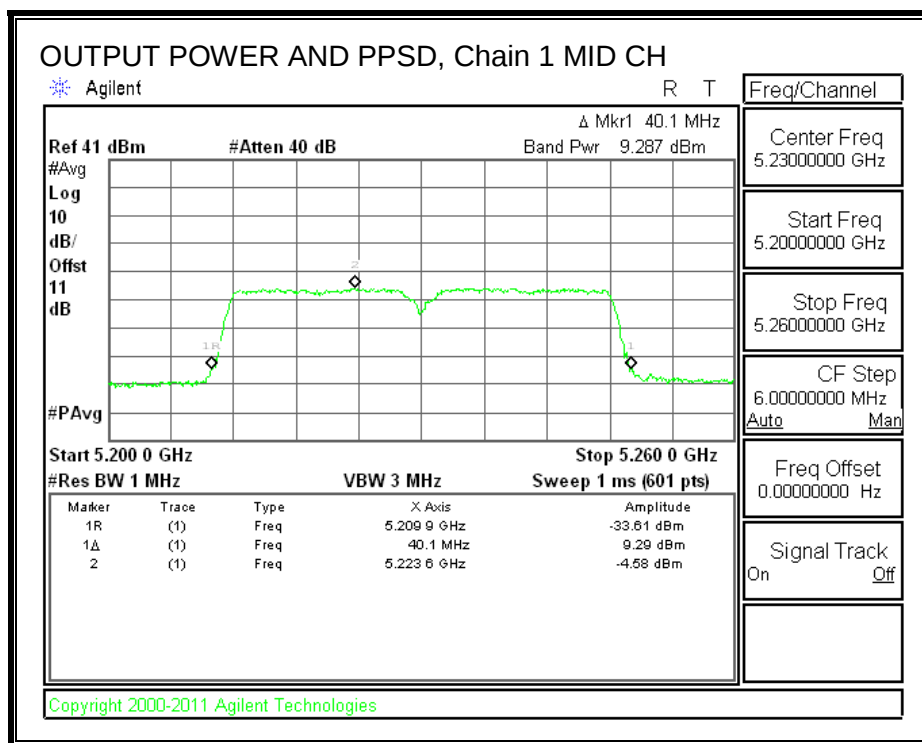
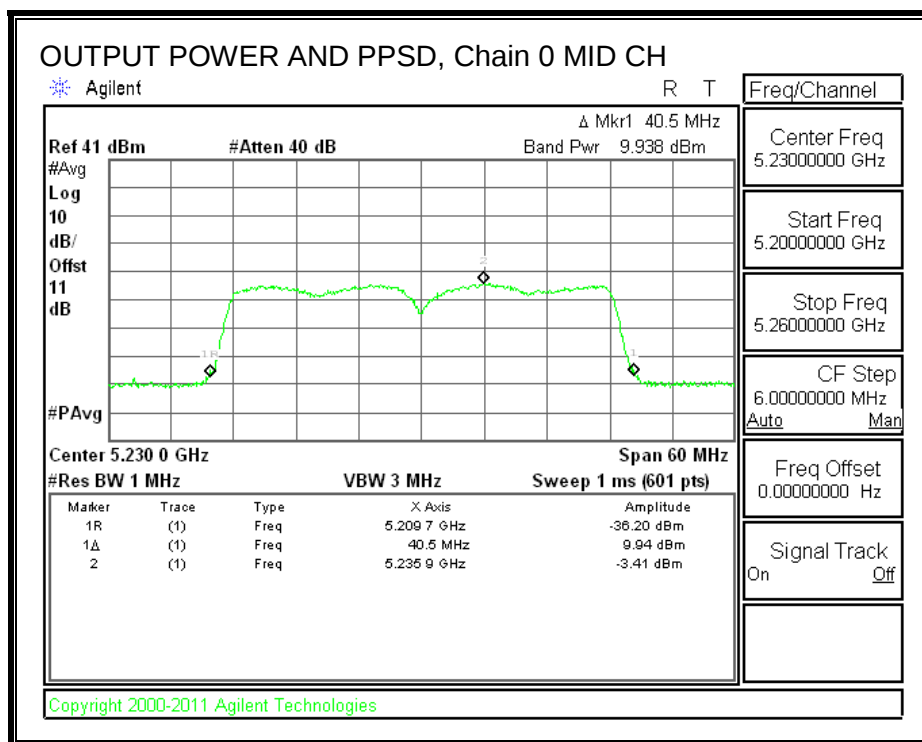
802.11a 5.2G OUTPUT POWER AND PPSD, Chain 0



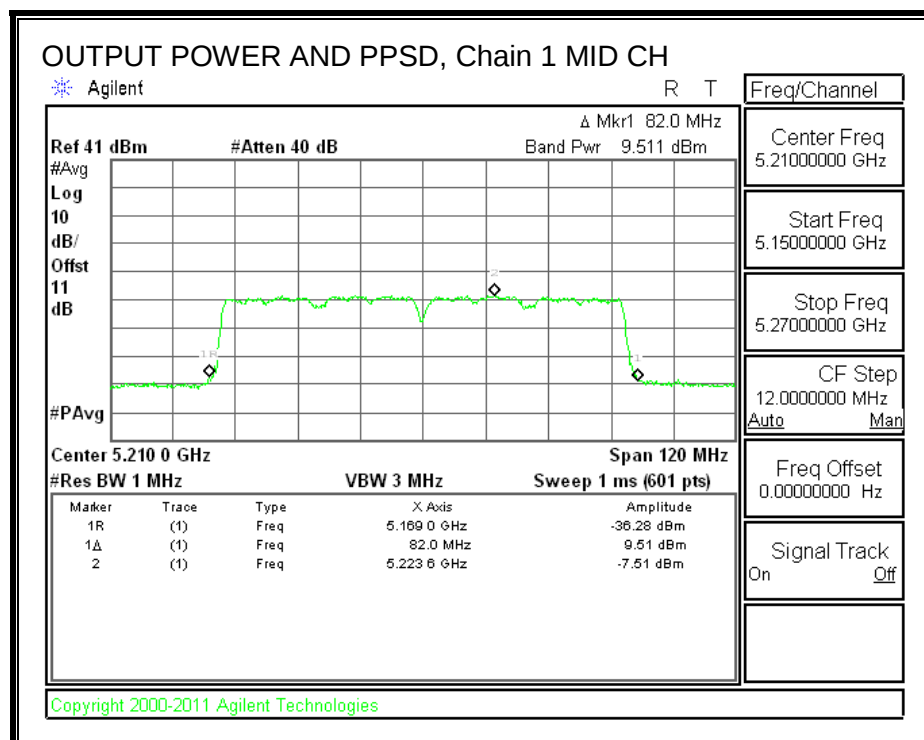
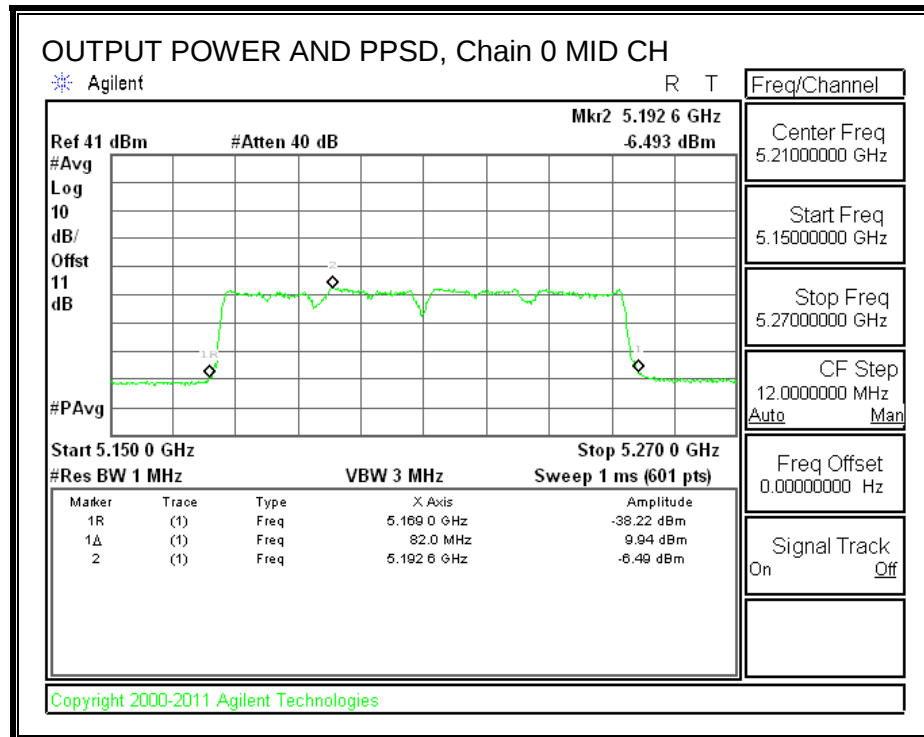
802.11n HT20 5.2G OUTPUT POWER AND PPSD, Chain 0

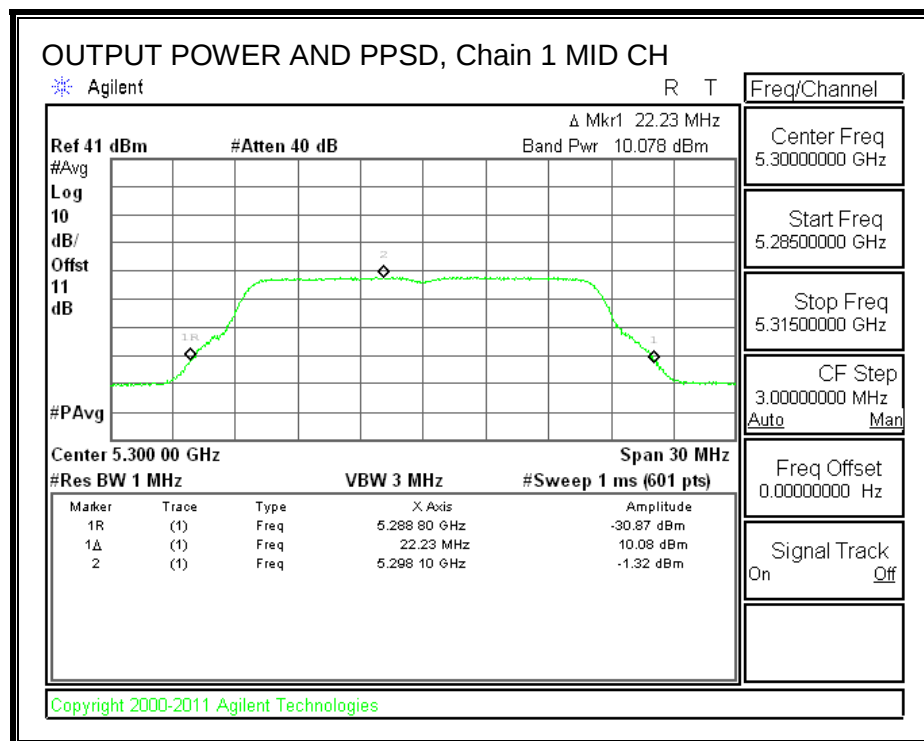
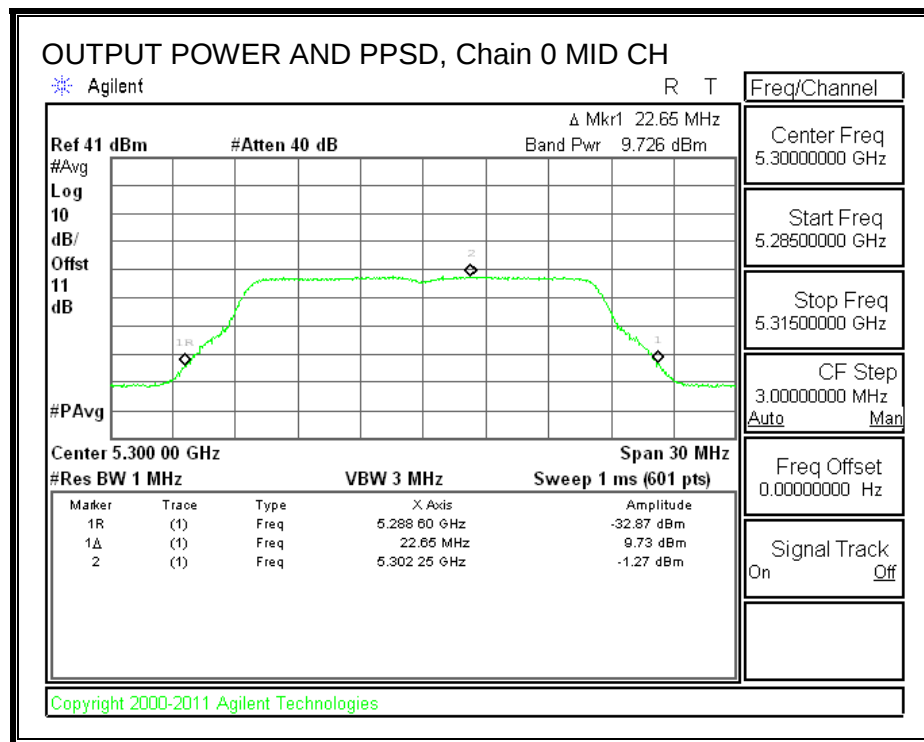


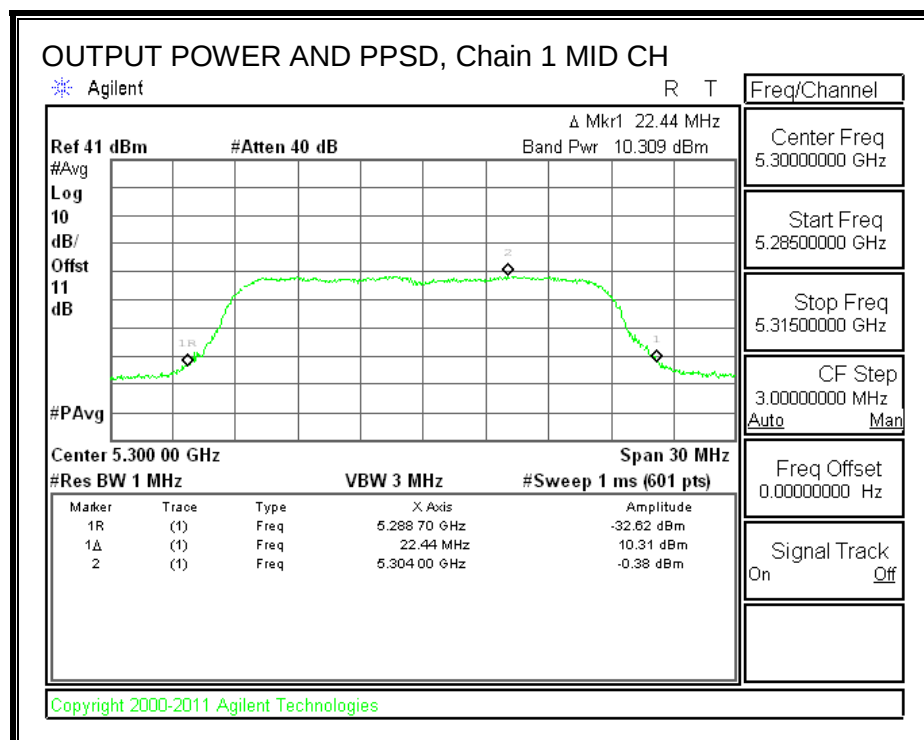
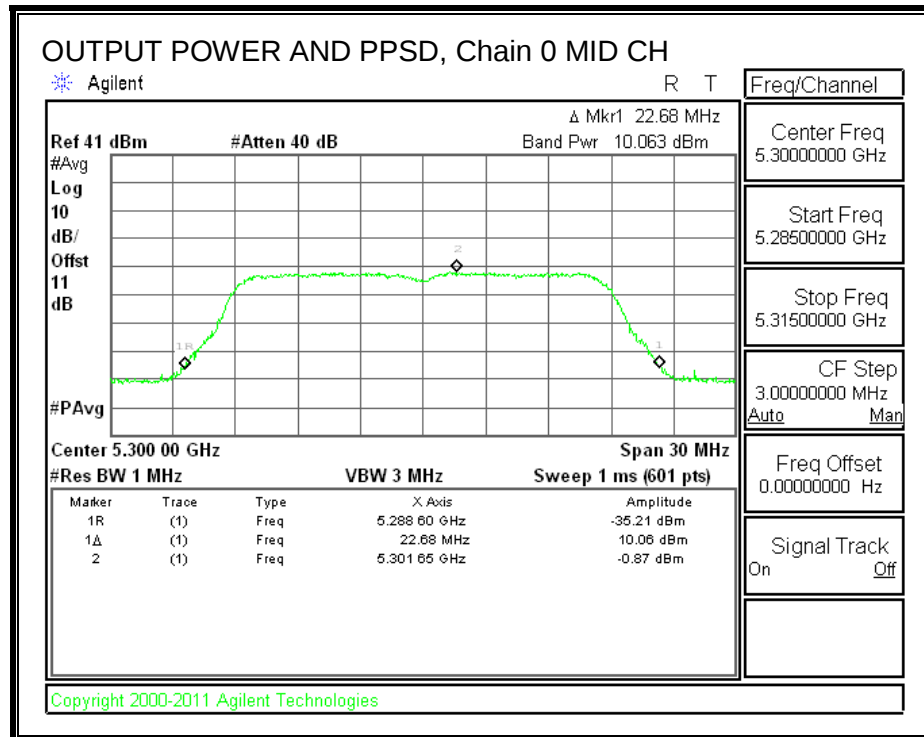
802.11n HT40 5.2G OUTPUT POWER AND PPSD, Chain 0



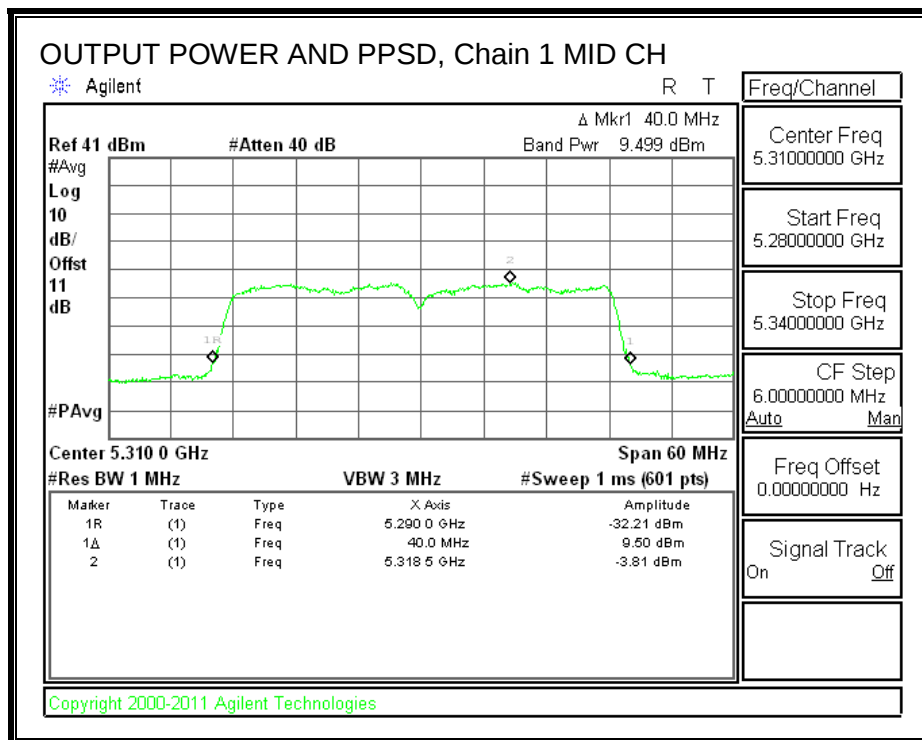
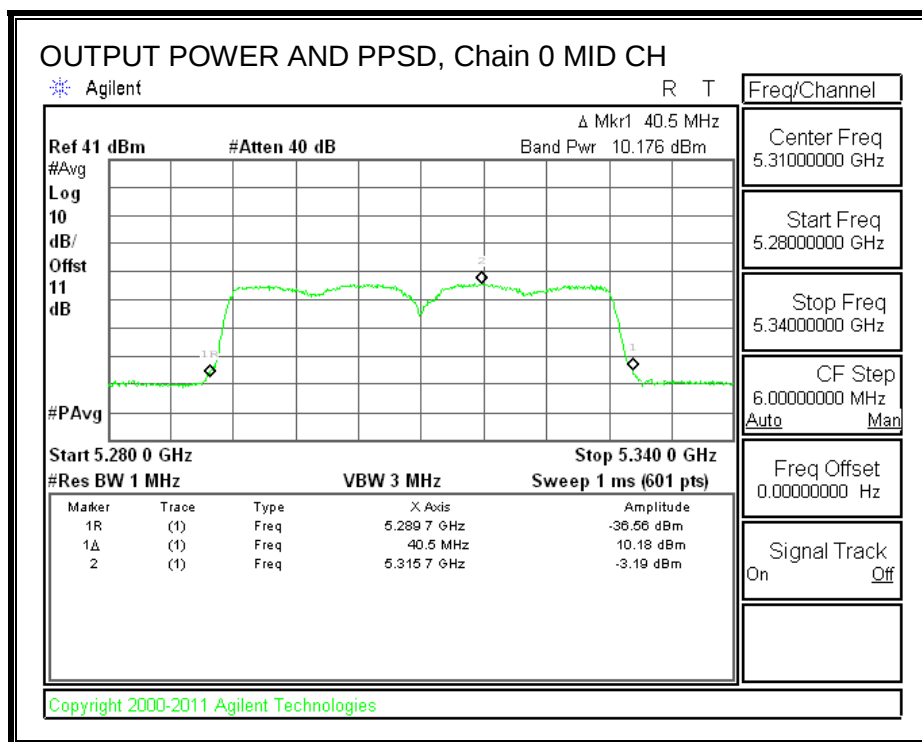
802.11ac HT80 5.2G OUTPUT POWER AND PPSD, Chain 0



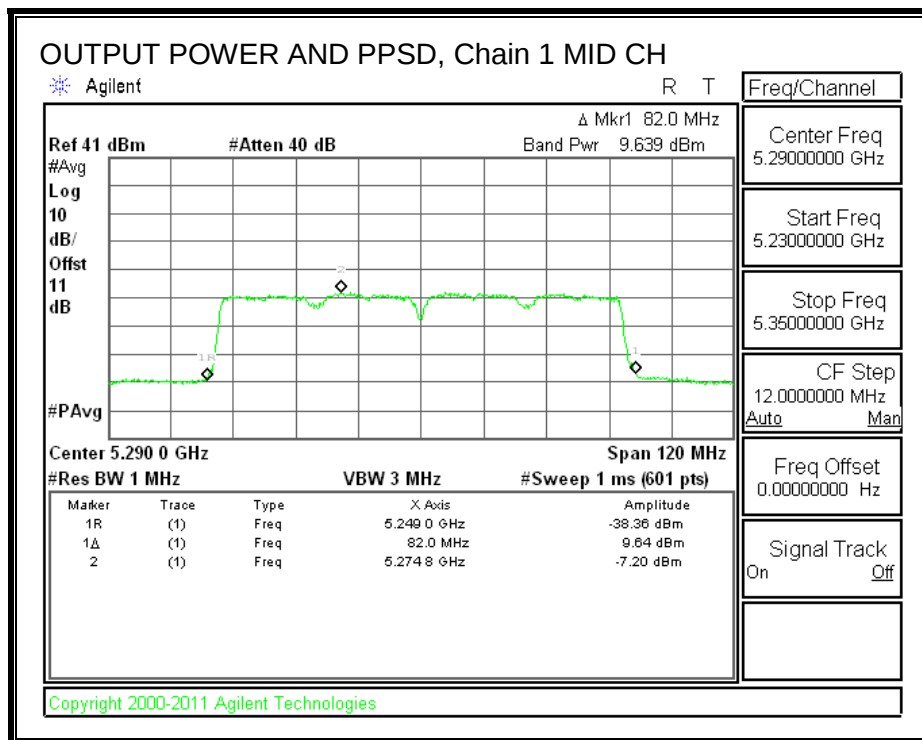
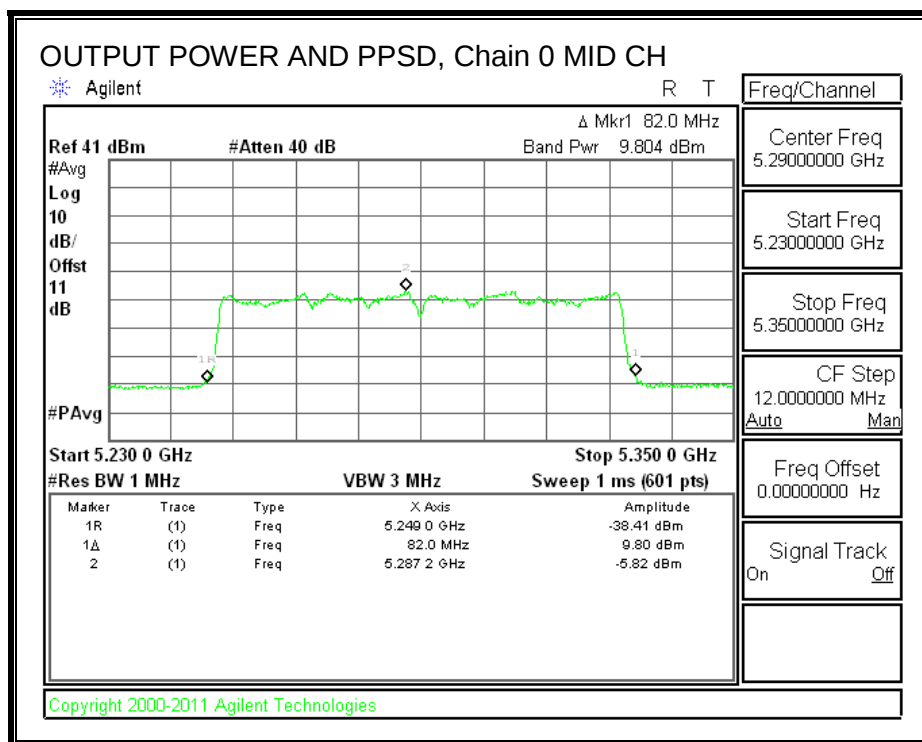
802.11a 5.3G OUTPUT POWER AND PPSD, Chain 0

802.11n HT20 5.3G OUTPUT POWER AND PPSD, Chain 0

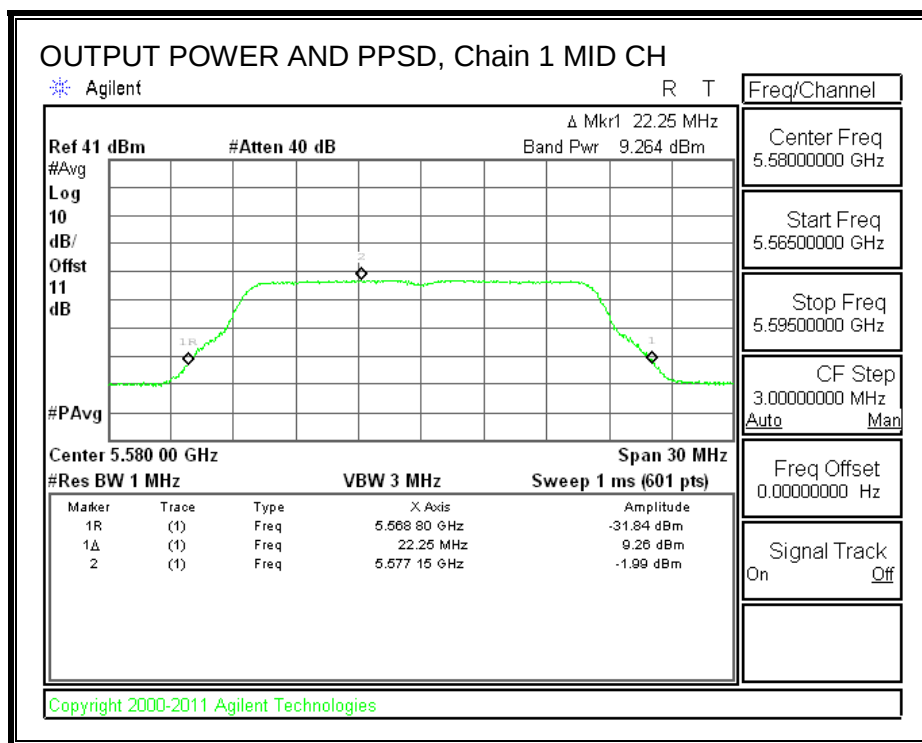
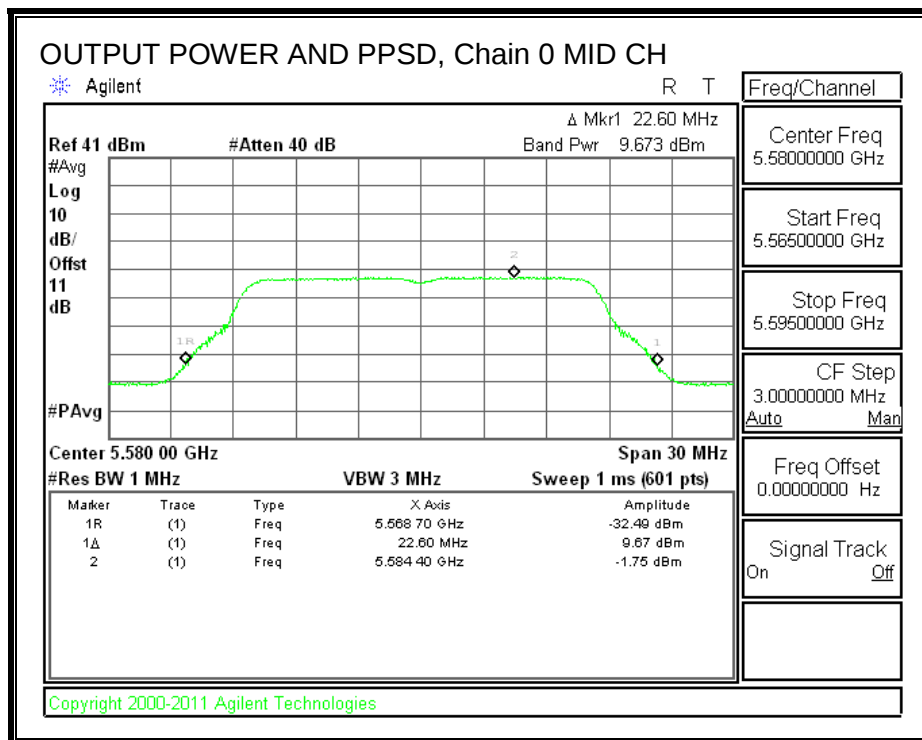
802.11n HT40 5.3G OUTPUT POWER AND PPSD, Chain 0

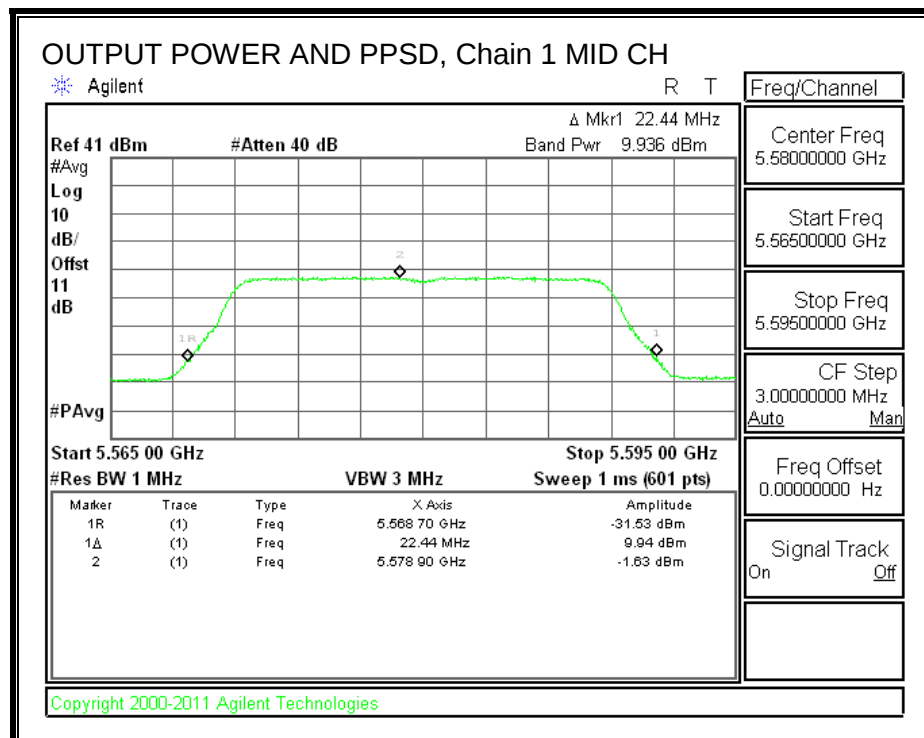
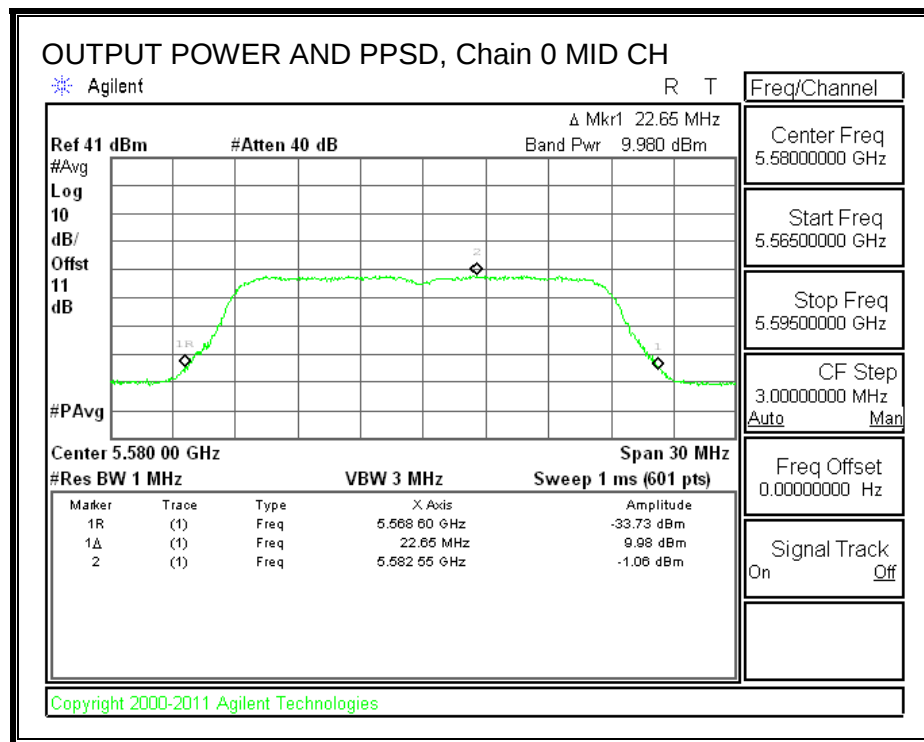


802.11ac HT80 5.3G OUTPUT POWER AND PPSD, Chain 0

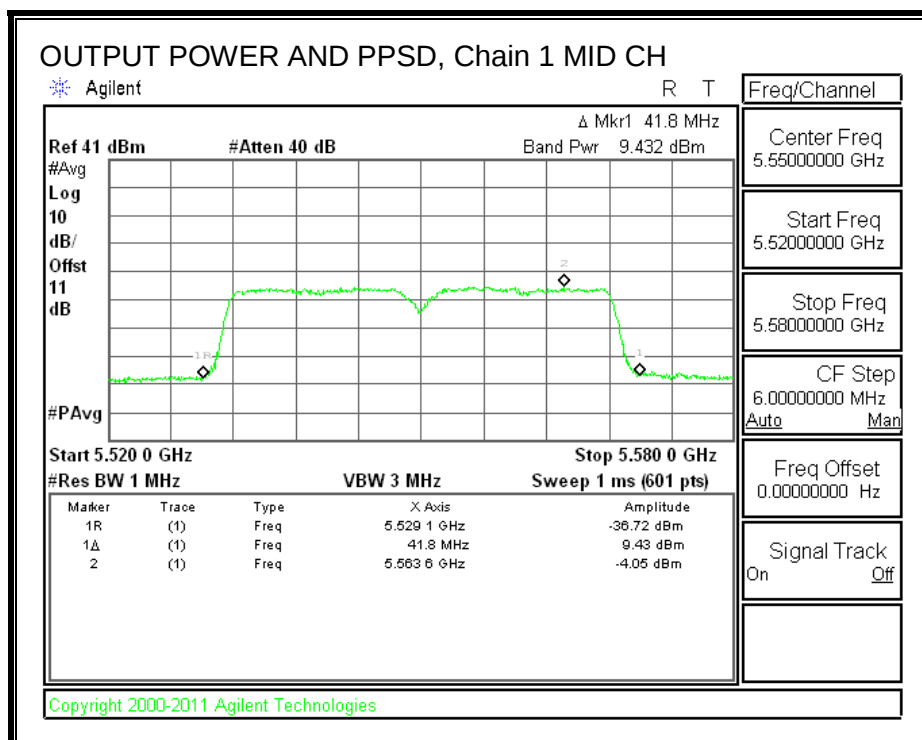
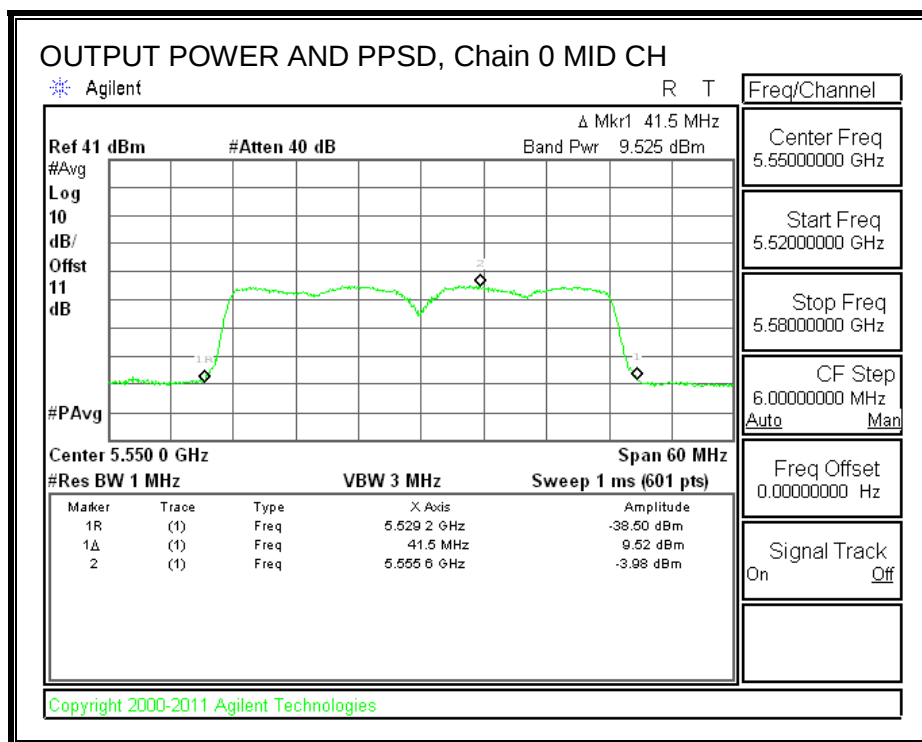


802.11a 5.5G OUTPUT POWER AND PPSD, Chain 0

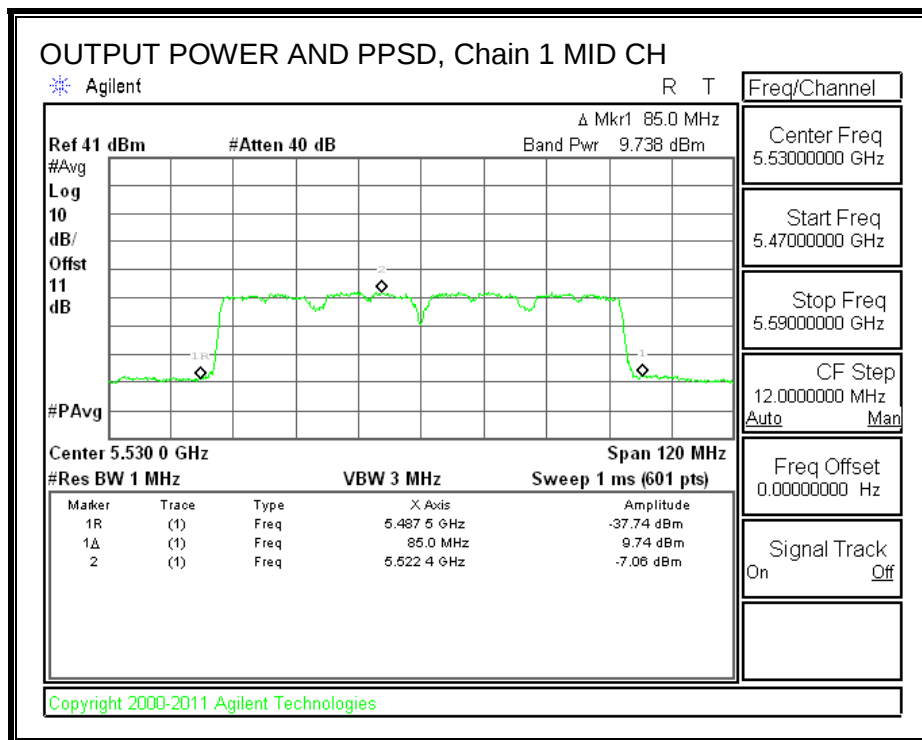
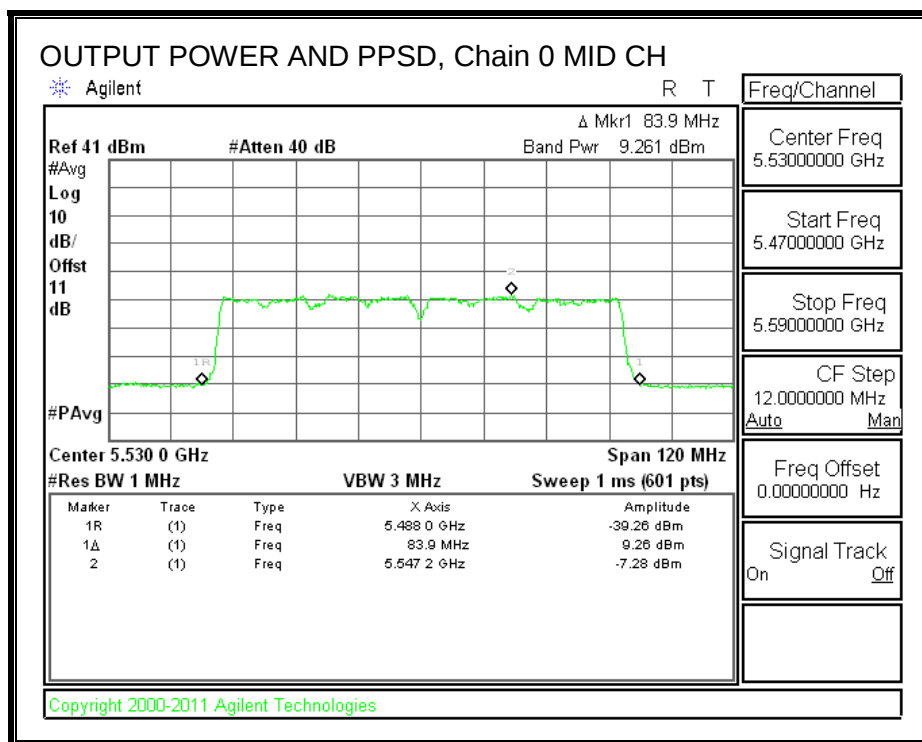


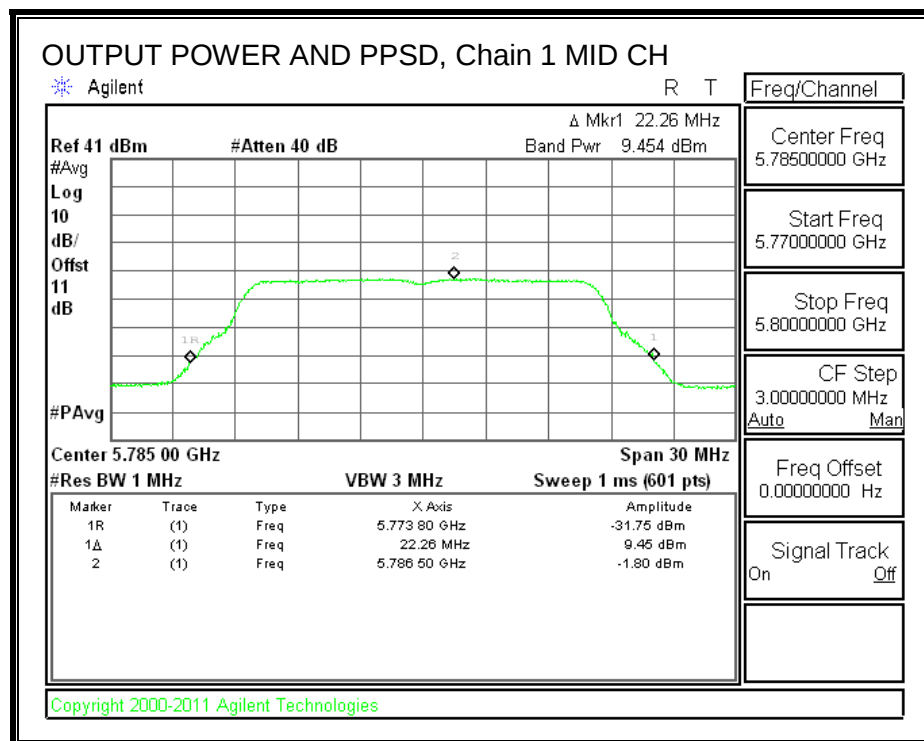
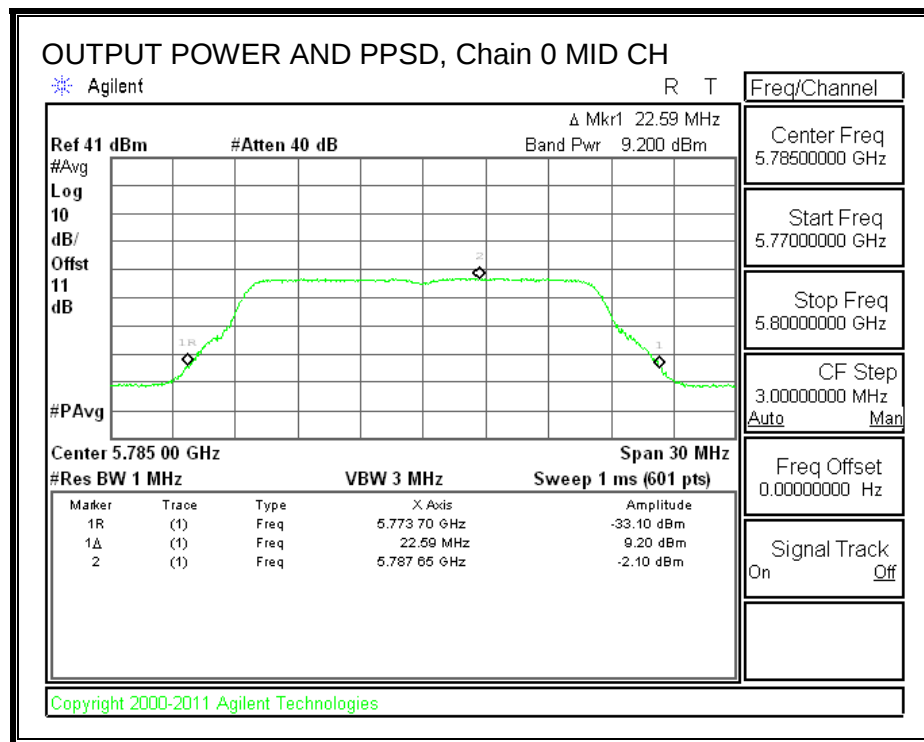
802.11n HT20 5.5G OUTPUT POWER AND PPSD, Chain 0

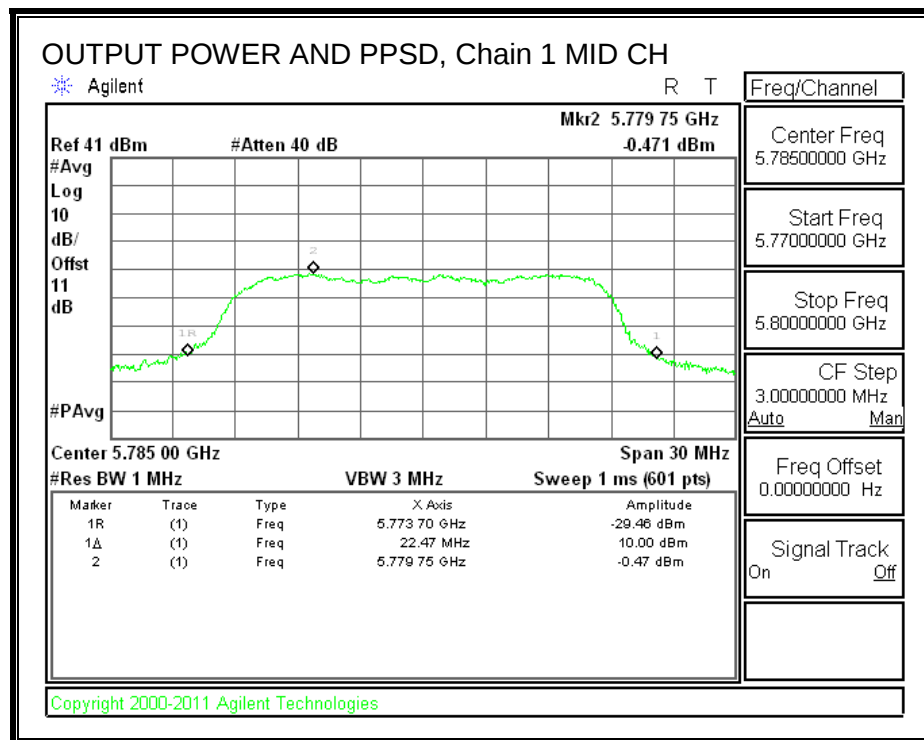
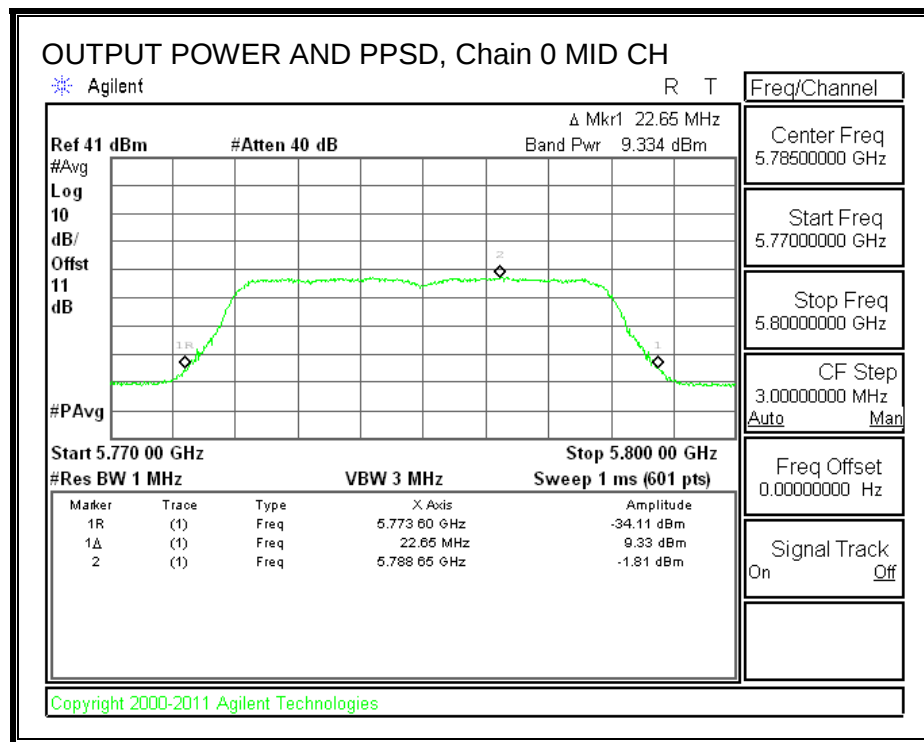
802.11n HT40 5.5G OUTPUT POWER AND PPSD, Chain 0



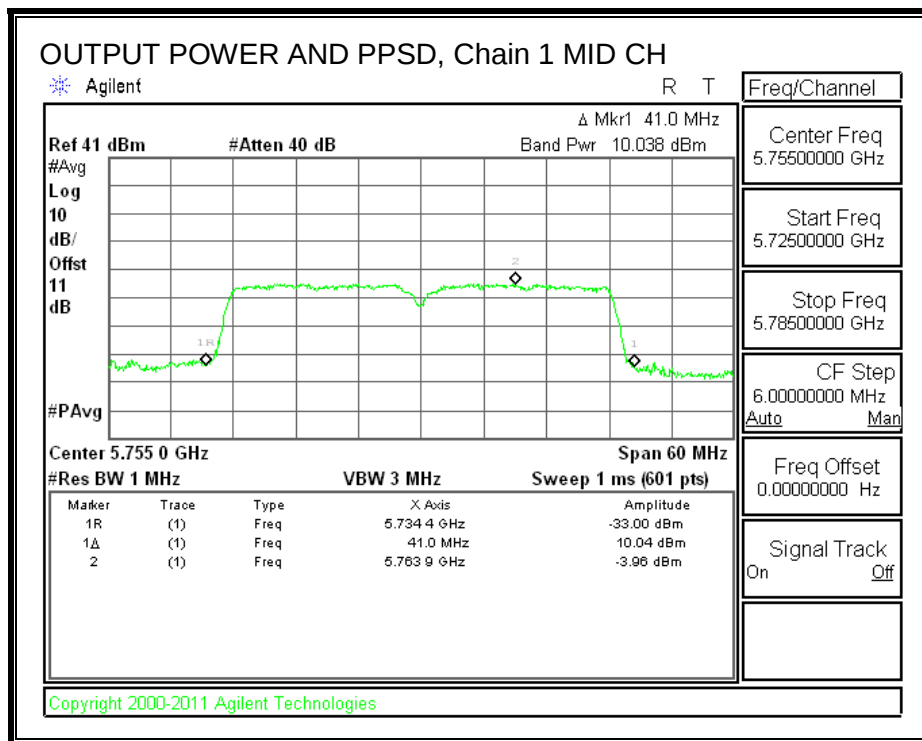
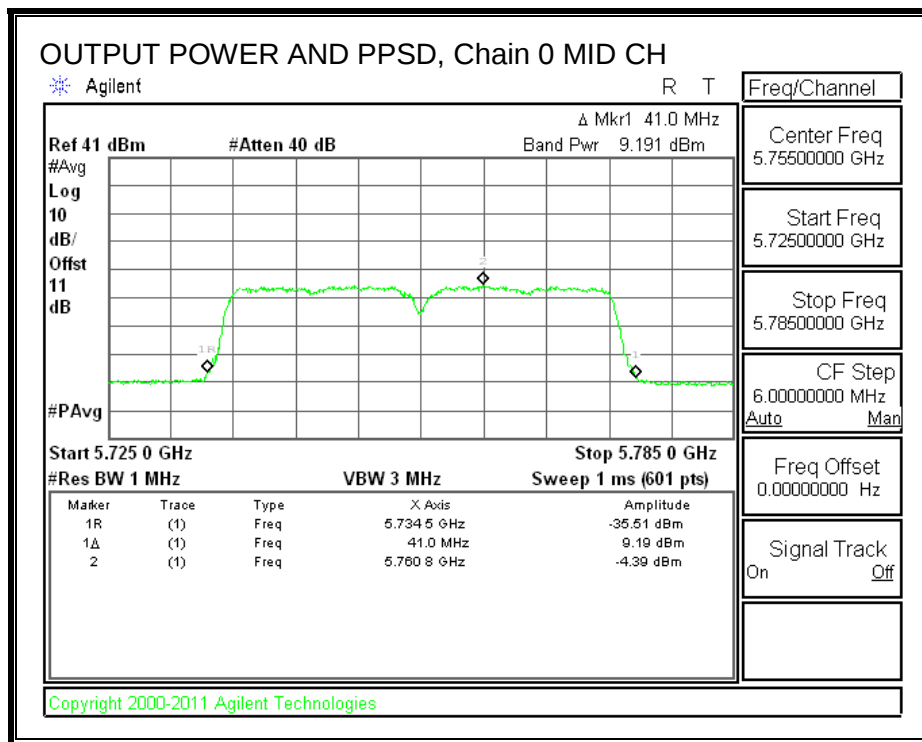
802.11ac HT80 5.5G OUTPUT POWER AND PPSD, Chain 0

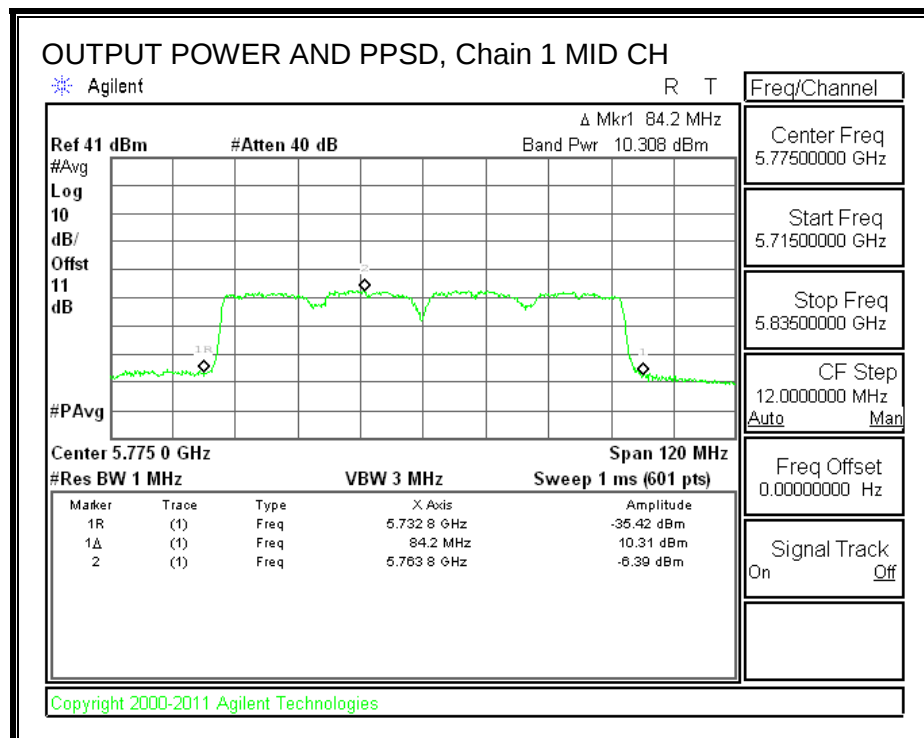
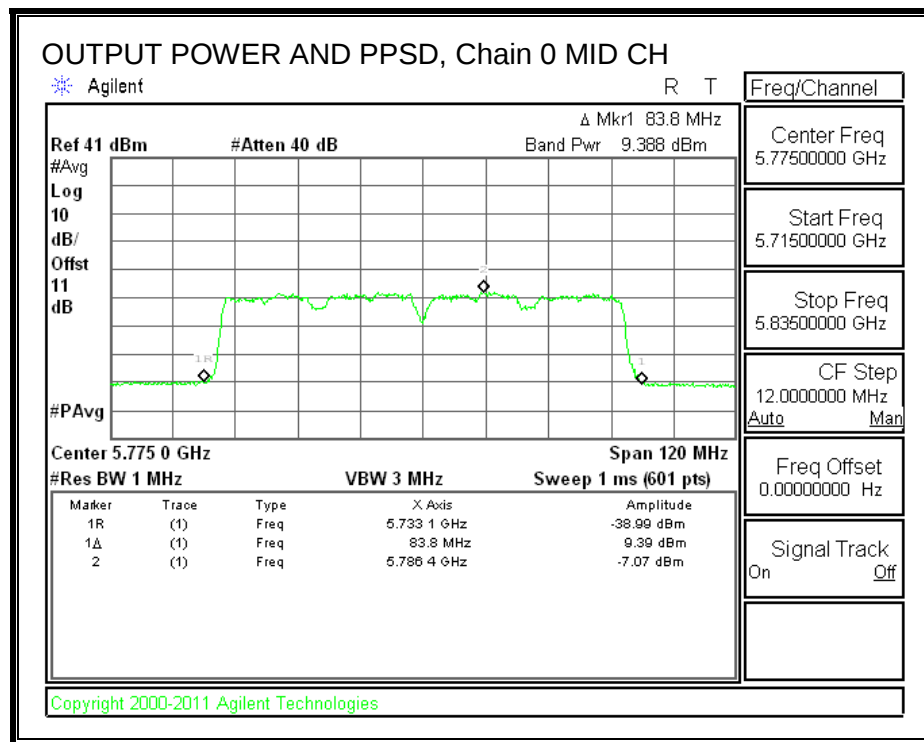


802.11a 5.8G OUTPUT POWER AND PPSD, Chain 0

802.11n HT20 5.8G OUTPUT POWER AND PPSD, Chain 0

802.11n HT40 5.8G OUTPUT POWER AND PPSD, Chain 0



802.11ac HT80 5.8G OUTPUT POWER AND PPSD, Chain 0

10.4. PEAK EXCURSION

LIMITS

FCC §15.407 (a) (6)

The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

RESULTS

10.4.1. 802.11a MODE IN THE 5.2 GHz BAND

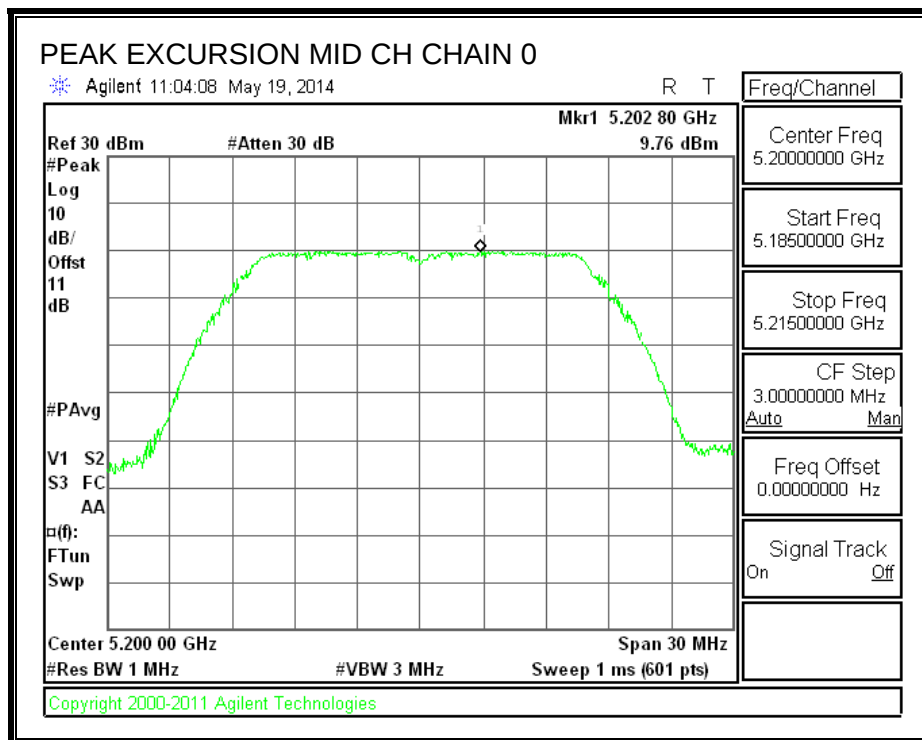
Chain 0

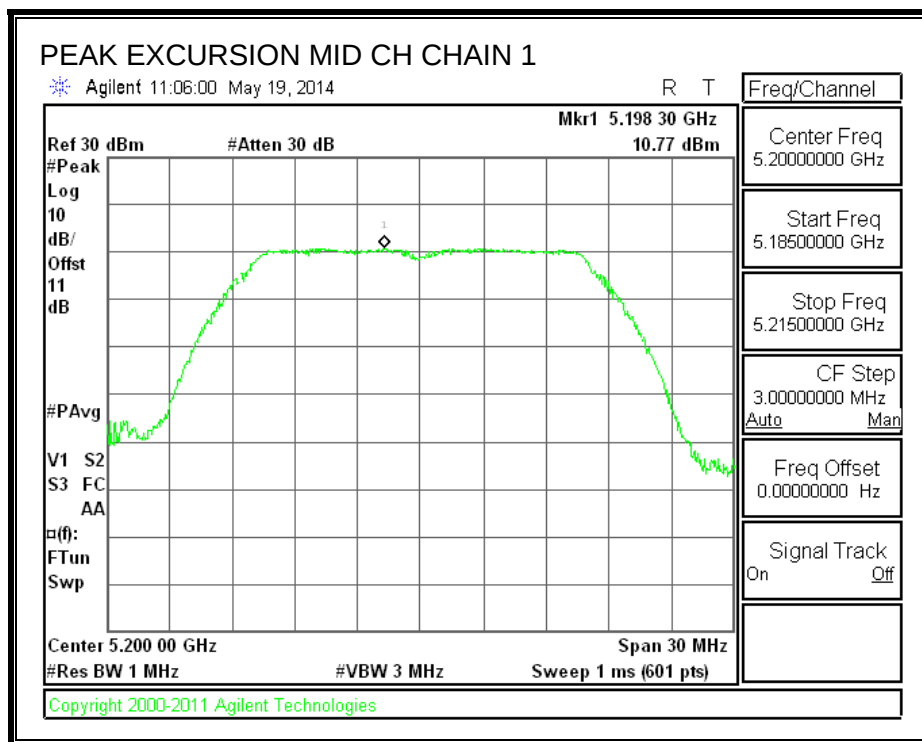
Channel	Frequency (MHz)	PK Level (dBm)	PSD (dBm)	DCCF (dB)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Mid	5200	9.76	-1.78	0.29	11.25	13	-1.75

Chain 1

Channel	Frequency (MHz)	PK Level (dBm)	PSD (dBm)	DCCF (dB)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Mid	5200	10.77	-1.77	0.29	12.25	13	-0.75

PEAK EXCURSION





10.4.1. 802.11n HT20 MODE IN THE 5.2 GHz BAND

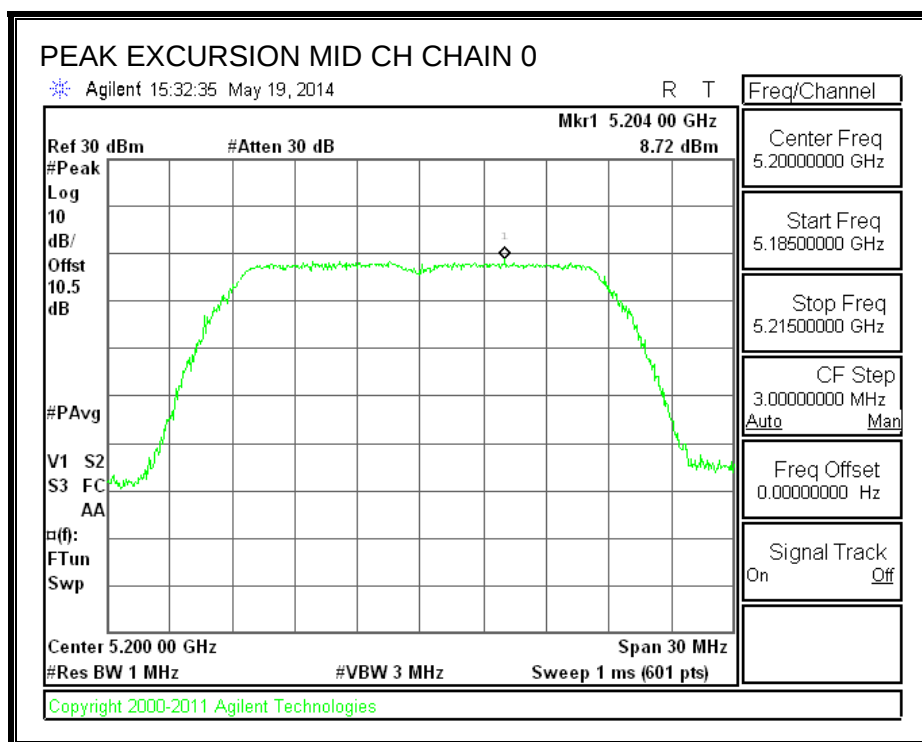
Chain 0

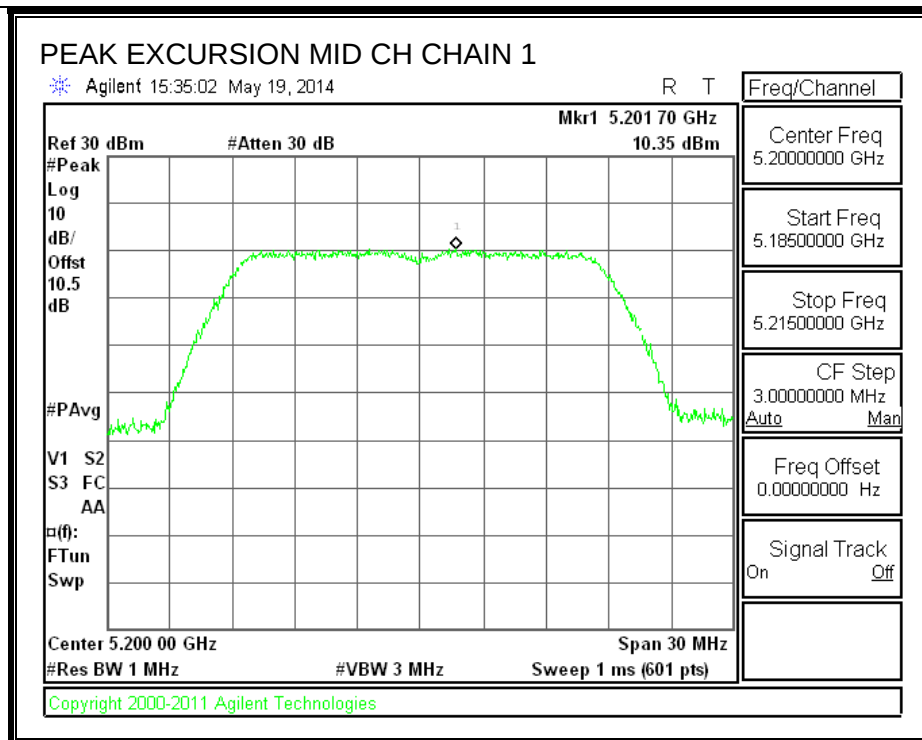
Channel	Frequency (MHz)	PK Level (dBm)	PSD (dBm)	DCCF (dB)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Mid	5200	8.72	-2.28	0.60	10.40	13	-2.60

Chain 1

Channel	Frequency (MHz)	PK Level (dBm)	PSD (dBm)	DCCF (dB)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Mid	5200	10.35	-1.83	0.60	11.58	13	-1.42

PEAK EXCURSION





10.4.1. 802.11n HT40 MODE IN THE 5.2 GHz BAND

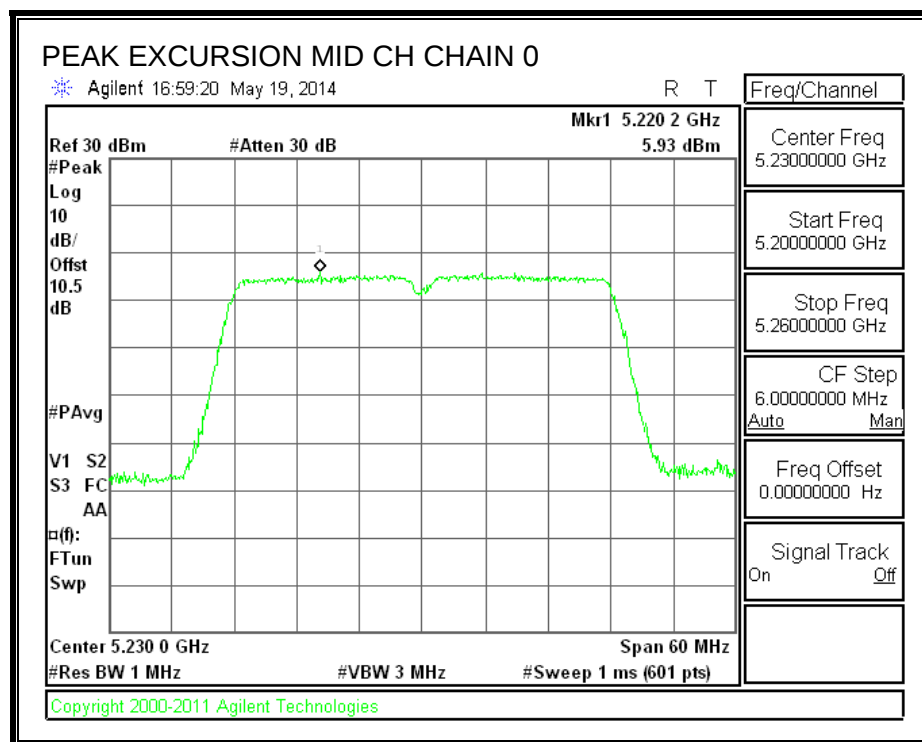
Chain 0

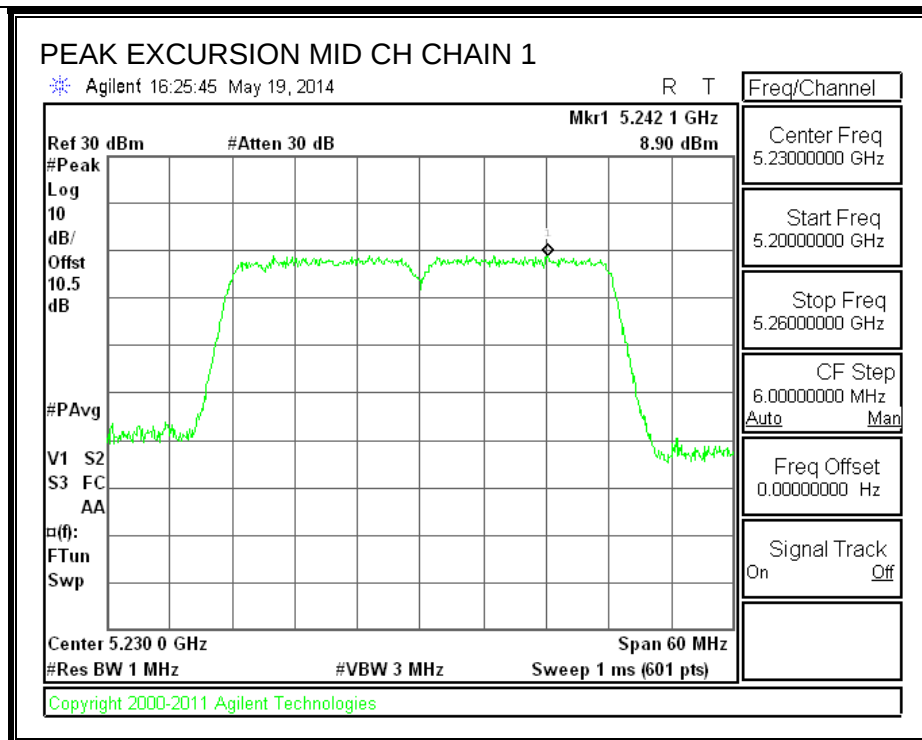
Channel	Frequency (MHz)	PK Level (dBm)	PSD (dBm)	DCCF (dB)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Mid	5230	5.930	-3.41	1.08	8.26	13	-4.74

Chain 1

Channel	Frequency (MHz)	PK Level (dBm)	PSD (dBm)	DCCF (dB)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Mid	5230	8.900	-4.58	1.08	12.40	13	-0.60

PEAK EXCURSION





10.4.1. 802.11ac HT80 MODE IN THE 5.2 GHz BAND

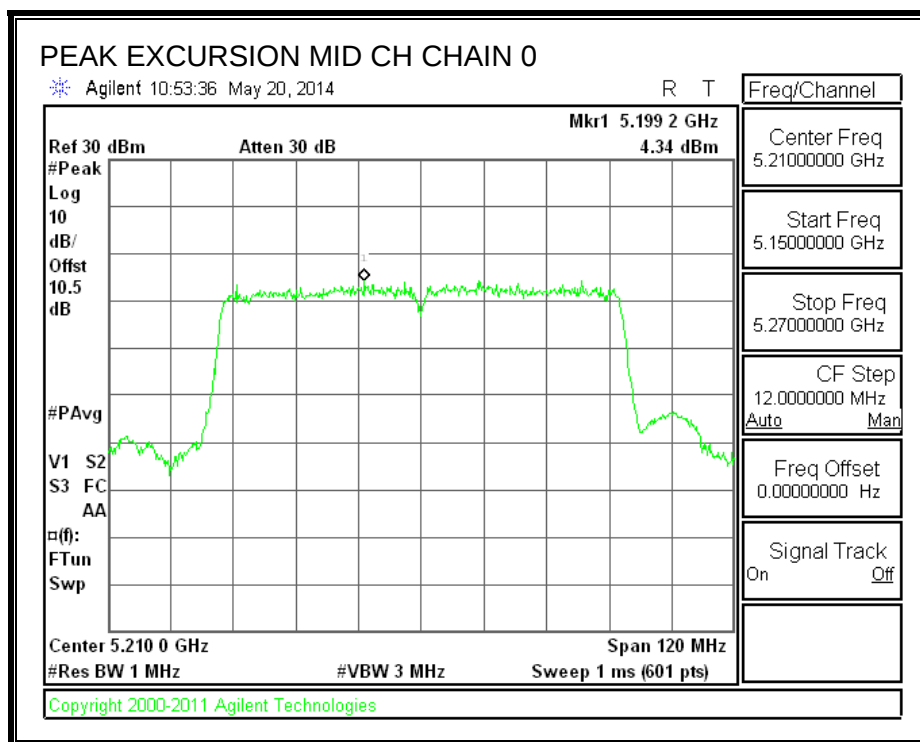
CHAIN 0

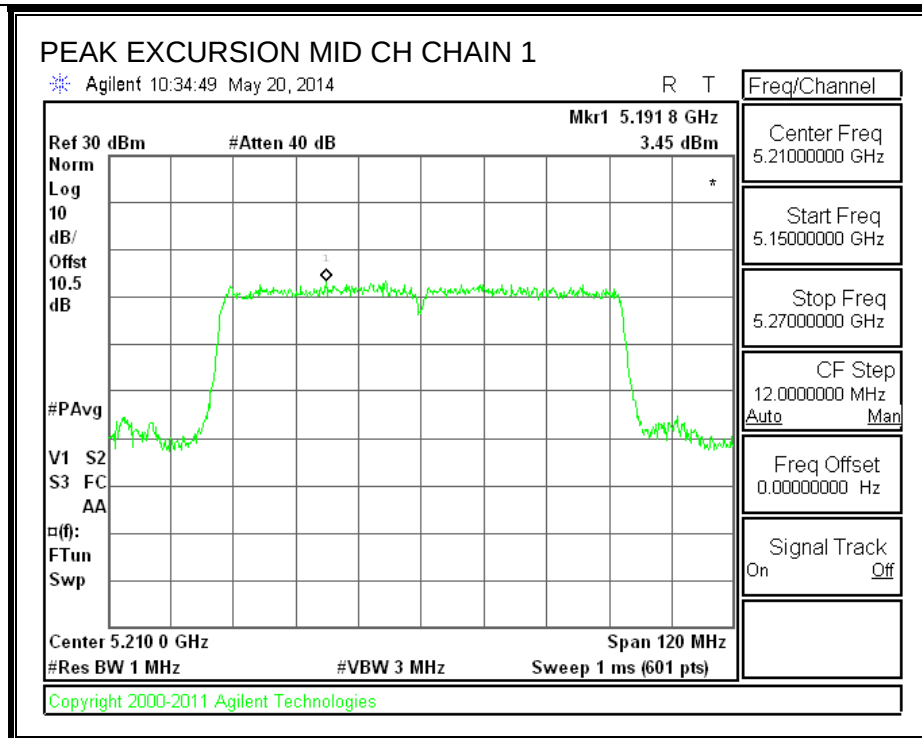
Channel	Frequency (MHz)	PK Level (dBm)	PSD (dBm)	DCCF (dB)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Mid	5210	4.340	-6.49	3.98	6.85	13	-6.15

CHAIN 1

Channel	Frequency (MHz)	PK Level (dBm)	PSD (dBm)	DCCF (dB)	Peak Excursion (dB)	Limit (dB)	Margin (dB)
Mid	5210	3.450	-7.51	3.98	6.98	13	-6.02

PEAK EXCURSION





11. TRANSMITTER ABOVE 1 GHz

LIMITS

FCC §15.205 and §15.209

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.

Reference to KDB 789033 UNII part H) 6) d) Method VB:

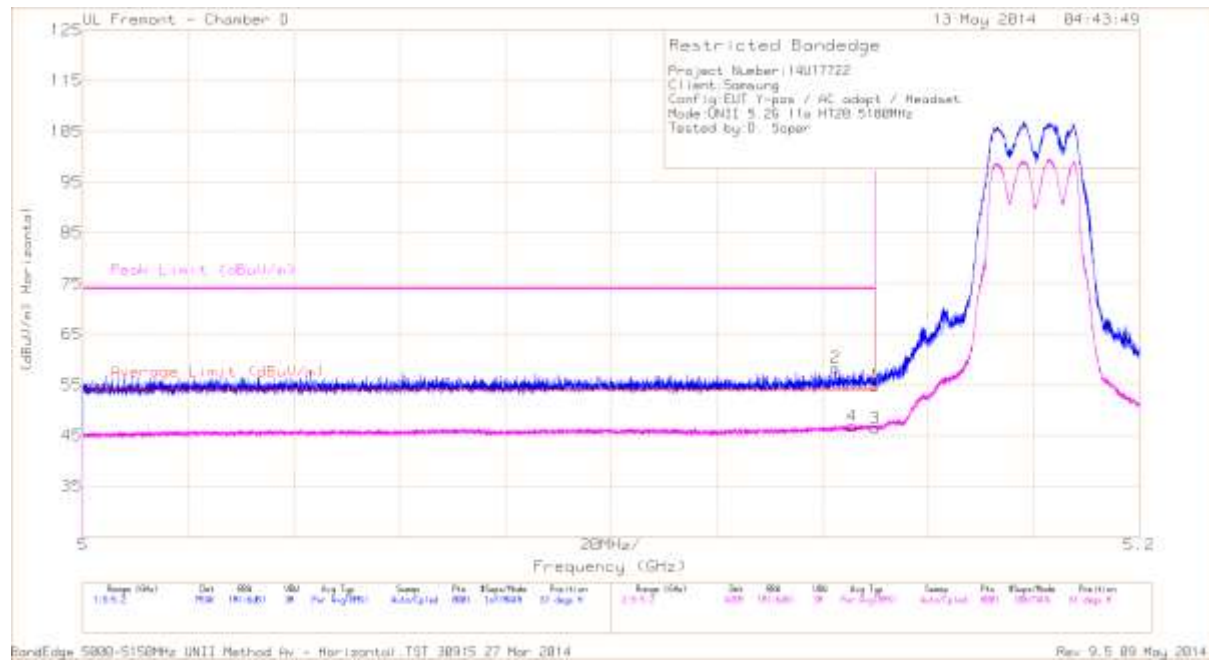
For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and add duty cycle factor to the reading offset for average measurements.

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

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

11.1. 5.2 GHz

11.1.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.2 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

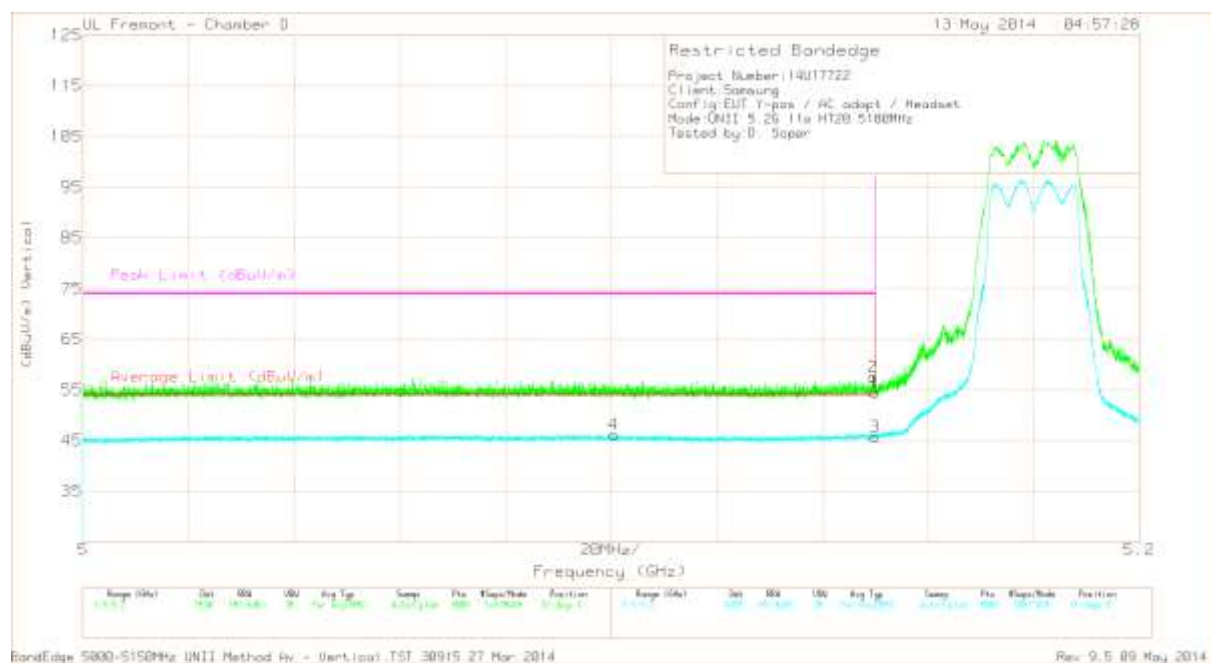


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	39.53	PK	33.7	-18.3	0	54.93	-	-	74	-19.07	61	167	H
2	* 5.143	42.8	PK	33.7	-18.2	0	58.3	-	-	74	-15.7	61	167	H
3	* 5.15	31.09	RMS	33.7	-18.3	.3	46.79	54	-7.21	-	-	61	167	H
4	* 5.146	31.26	RMS	33.7	-18.2	.3	47.06	54	-6.94	-	-	61	167	H

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

PK - Peak detector

RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (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	* 5.15	39.11	PK	33.7	-18.3	0	54.51	-	-	74	-19.49	31	117	V
2	* 5.15	42.06	PK	33.7	-18.3	0	57.46	-	-	74	-16.54	31	117	V
3	* 5.15	30.33	RMS	33.7	-18.3	.3	46.03	54	-7.97	-	-	31	117	V
4	* 5.101	30.58	RMS	33.6	-18	.3	46.48	54	-7.52	-	-	31	117	V

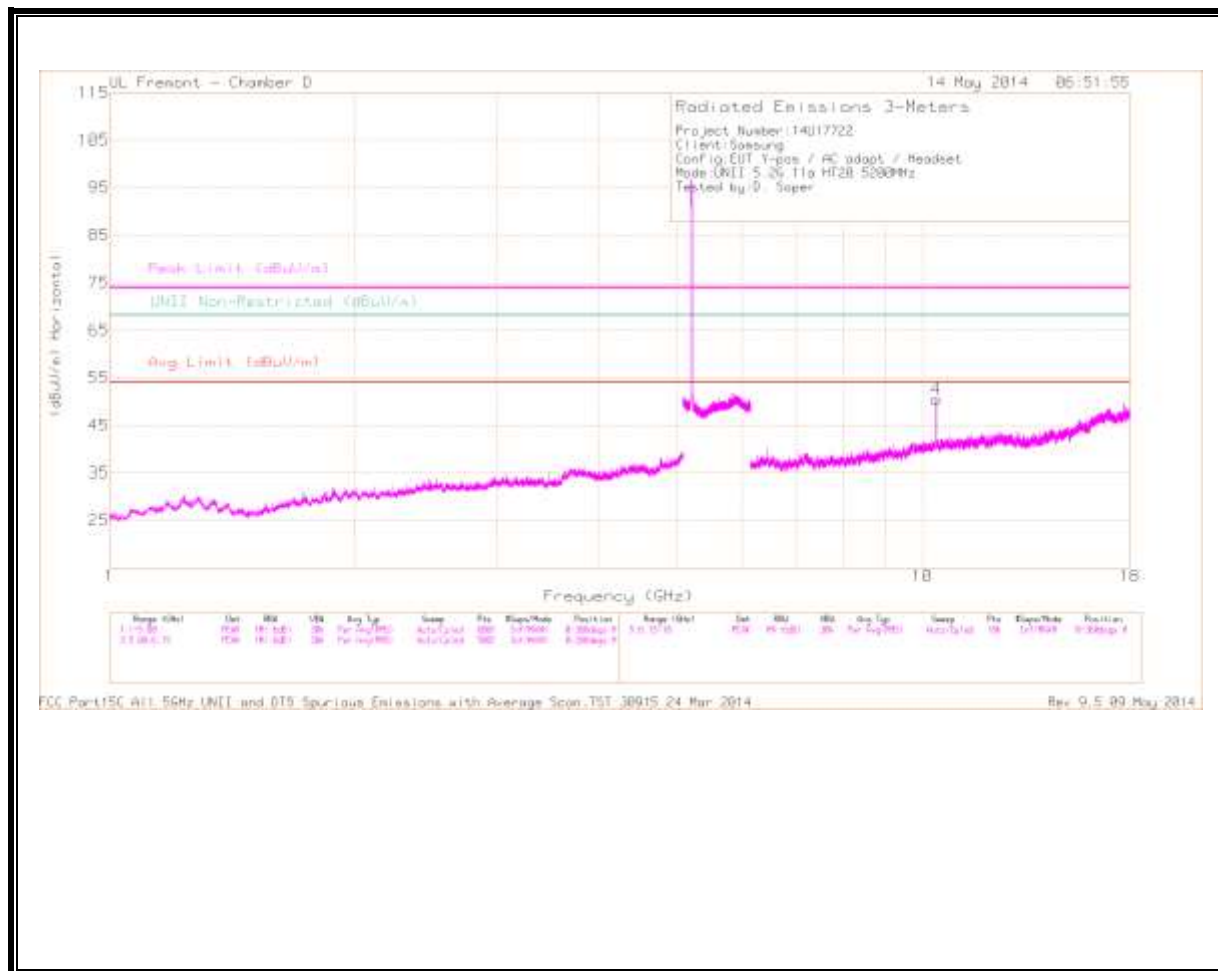
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

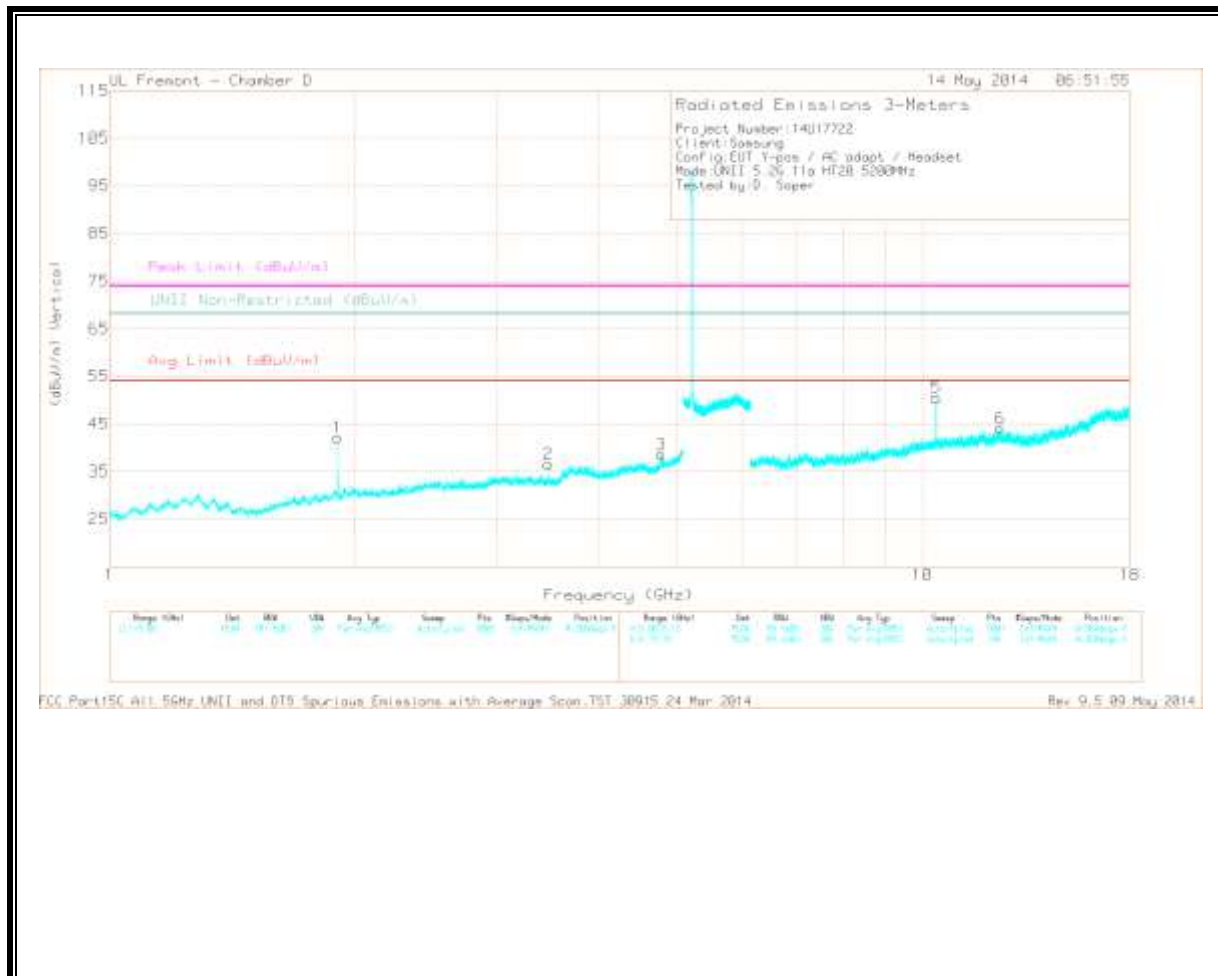
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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



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	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 4.774	32.07	PK	33.5	-27	0	38.57	-	-	74	-35.43	-	-	0-360	100	V
6	* 12.465	26.74	PK	38.5	-21.2	0	44.04	-	-	74	-29.96	-	-	0-360	100	V
1	1.907	42.5	PK	30.2	-30.5	0	42.2	-	-	-	-	68.2	-26	0-360	100	V
2	3.466	33.37	PK	32.3	-29.1	0	36.57	-	-	-	-	68.2	-31.63	0-360	100	V
4	10.401	35	PK	37.1	-21.6	0	50.5	-	-	-	-	68.2	-17.7	0-360	100	H
5	10.403	35.14	PK	37.1	-21.7	0	50.54	-	-	-	-	68.2	-17.66	0-360	100	V

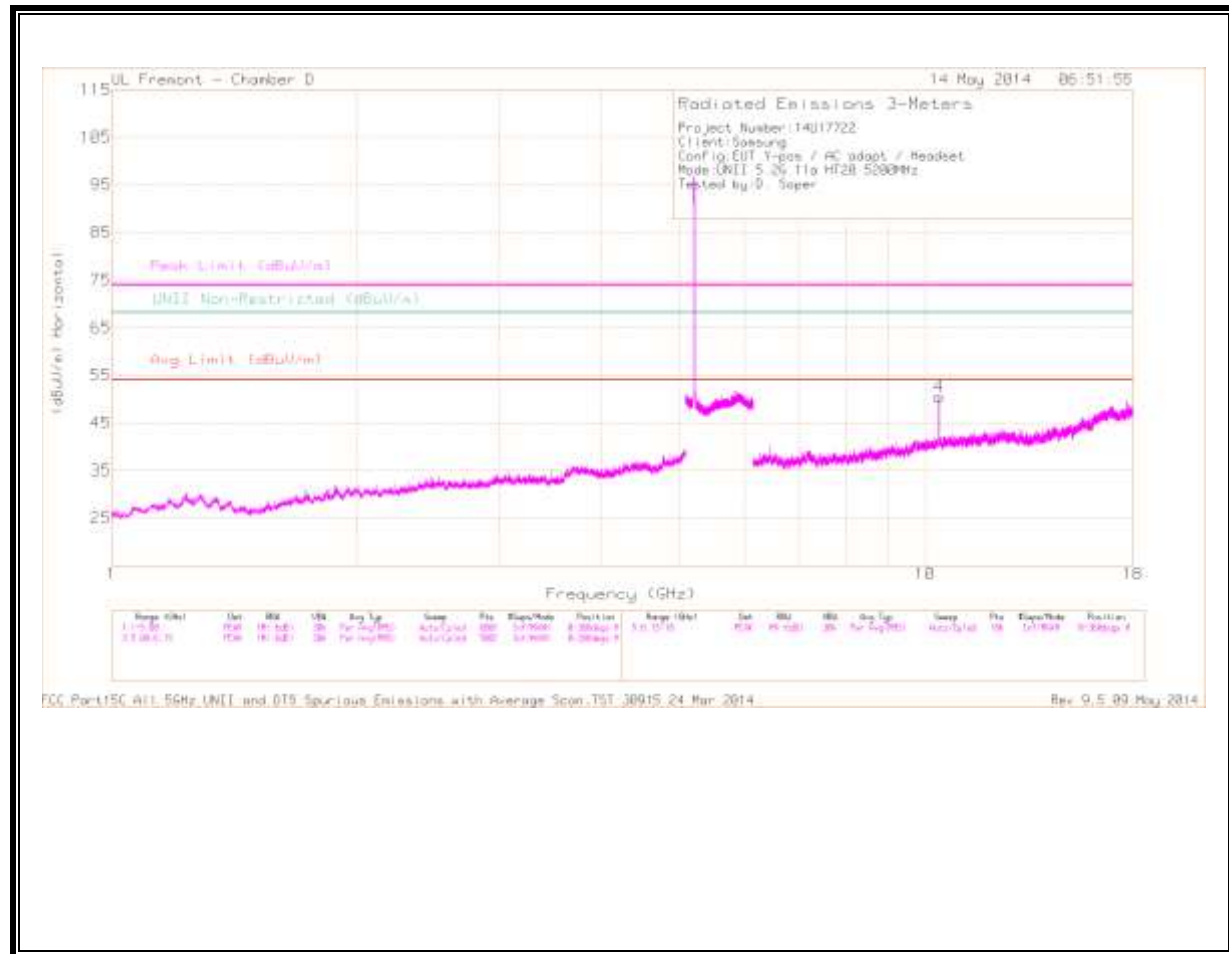
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Radiated Emissions

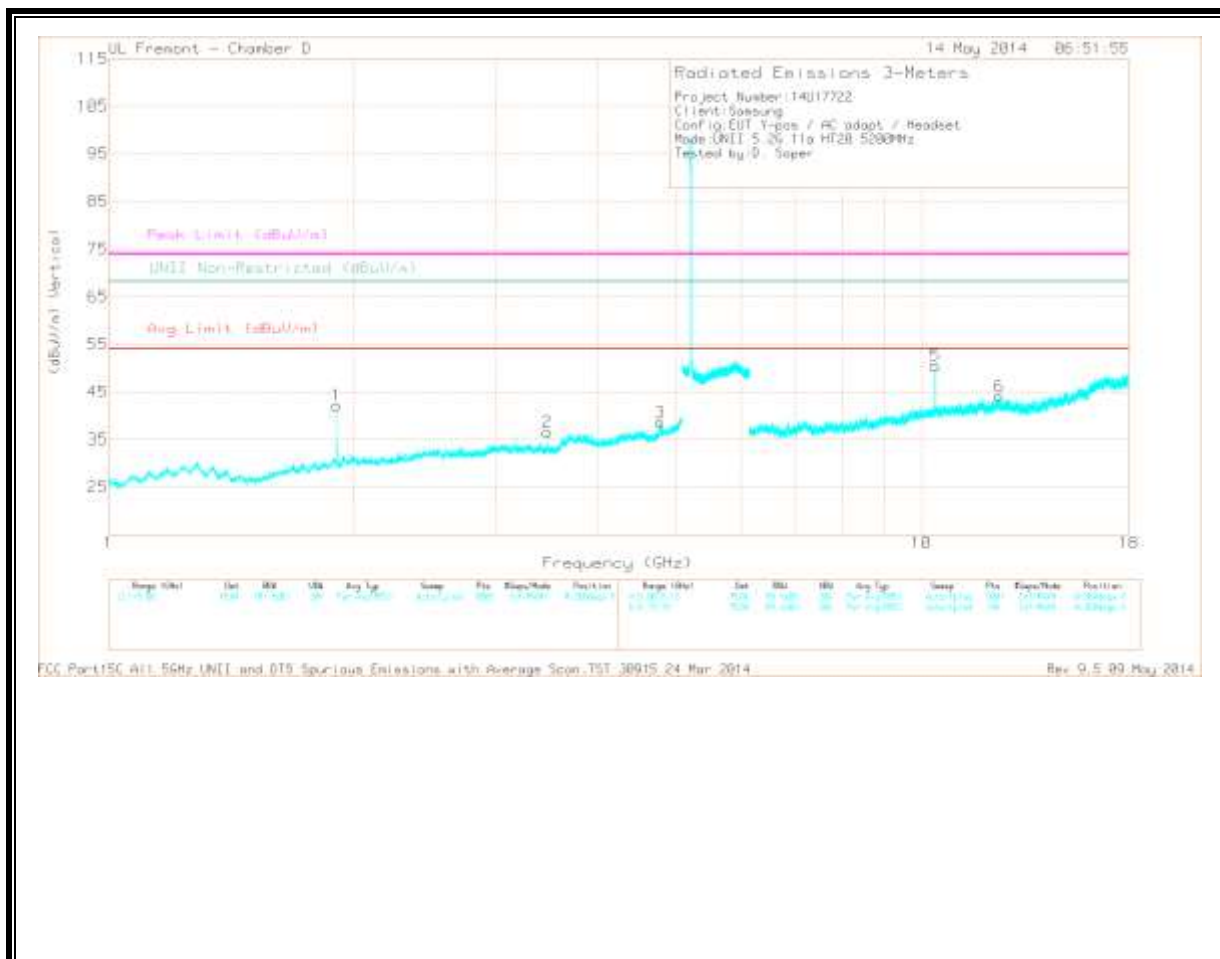
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.884	40.21	PK1	30.1	-30.5	0	39.81	54	-14.19	74	-34.19	68.2	-28.39	162	138	H
1.89	28.87	AD1	30.1	-30.4	.3	28.87	54	-25.13	74	-45.13	-	-	162	138	H
10.399	44.94	PK1	37.1	-21.5	0	60.54			74	-13.46	68.2	-7.66	162	138	H
10.399	32.94	AD1	37.1	-21.5	.3	48.84	54	-5.16	74	-25.16	-	-	162	138	H
10.399	33.08	AD1	37.1	-21.5	.3	48.98	54	-5.02	74	-25.02	-	-	162	138	H

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



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.

MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fil tr/Pad (dB)	DC Corr (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	* 4.774	32.07	PK	33.5	-27	0	38.57	-	-	74	-35.43	-	-	0-360	100	V
6	* 12.465	26.74	PK	38.5	-21.2	0	44.04	-	-	74	-29.96	-	-	0-360	100	V
1	1.907	42.5	PK	30.2	-30.5	0	42.2	-	-	-	-	68.2	-26	0-360	100	V
2	3.466	33.37	PK	32.3	-29.1	0	36.57	-	-	-	-	68.2	-31.63	0-360	100	V
4	10.401	35	PK	37.1	-21.6	0	50.5	-	-	-	-	68.2	-17.7	0-360	100	H
5	10.403	35.14	PK	37.1	-21.7	0	50.54	-	-	-	-	68.2	-17.66	0-360	100	V

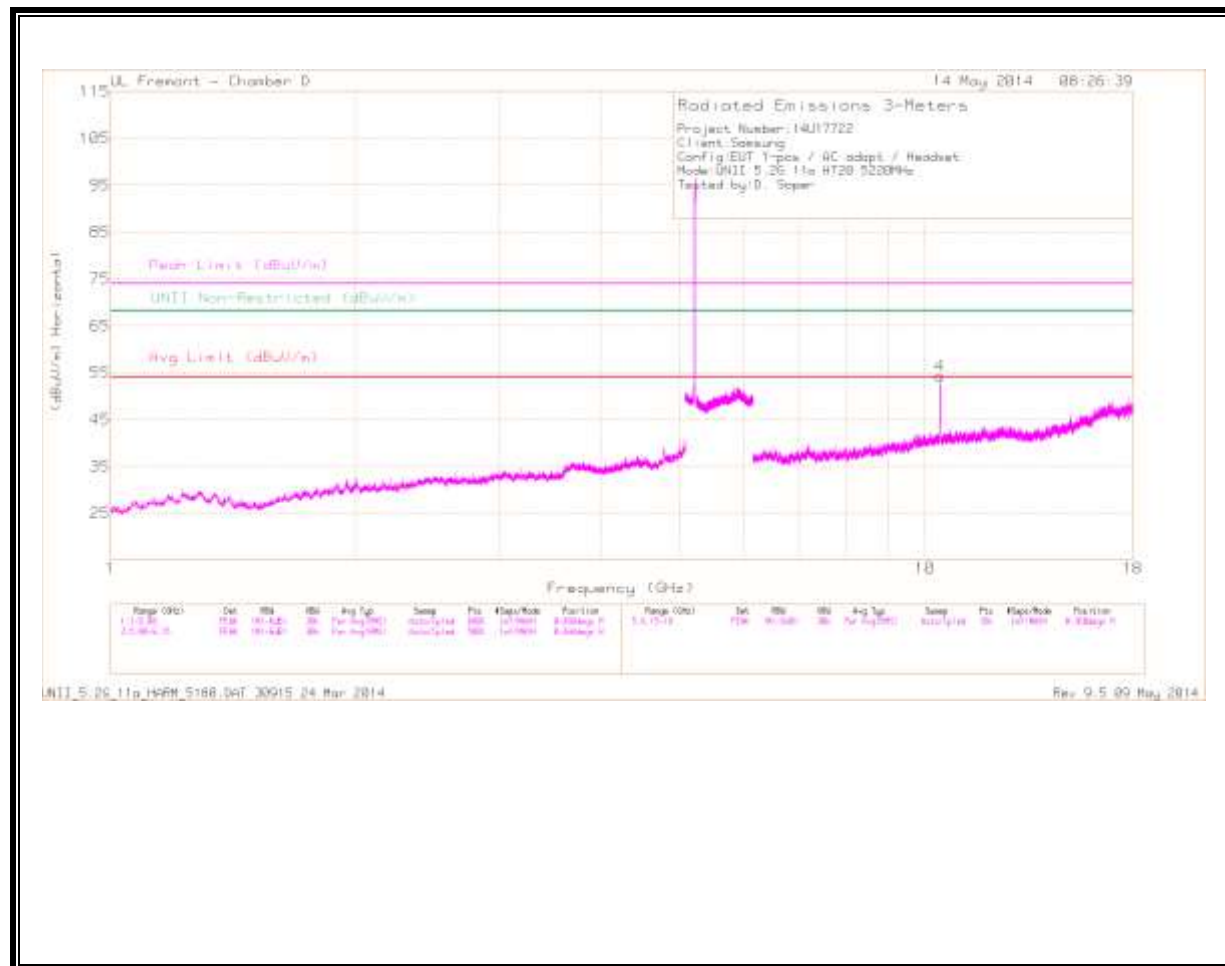
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

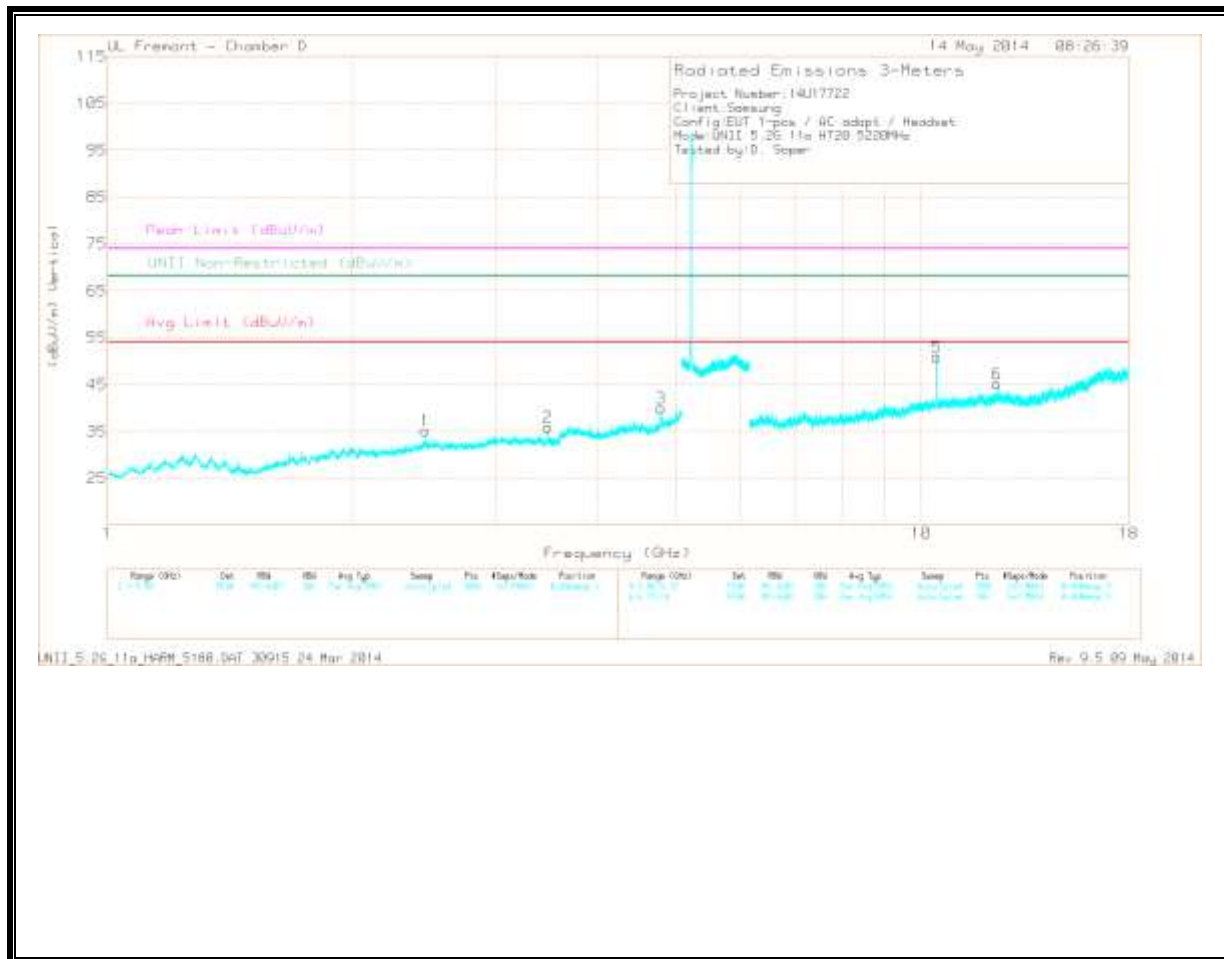
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fil tr/Pad (dB)	DC Corr (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
1.884	40.21	PK1	30.1	-30.5	0	39.81	54	-14.19	74	-34.19	68.2	-28.39	162	138	H
1.89	28.87	AD1	30.1	-30.4	.3	28.87	54	-25.13	74	-45.13	-	-	162	138	H
10.399	44.94	PK1	37.1	-21.5	0	60.54			74	-13.46	68.2	-7.66	162	138	H
10.399	32.94	AD1	37.1	-21.5	.3	48.84	54	-5.16	74	-25.16	-	-	162	138	H
10.399	33.08	AD1	37.1	-21.5	.3	48.98	54	-5.02	74	-25.02	-	-	162	138	H

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



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



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

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 4.788	33.35	PK	33.5	-26.9	0	39.95	-	-	74	-34.05	-	-	0-360	100	V
6	* 12.382	28.18	PK	38.5	-21.5	0	45.18	-	-	74	-28.82	-	-	0-360	201	V
1	2.457	33.04	PK	31.9	-29.8	0	35.14	-	-	-	-	68.2	-33.06	0-360	100	V
2	3.48	32.91	PK	32.3	-29.2	0	36.01	-	-	-	-	68.2	-32.19	0-360	100	V
4	10.438	38.72	PK	37.1	-21.5	0	54.32	-	-	-	-	68.2	-13.88	0-360	100	H
5	10.443	35.26	PK	37.1	-21.5	0	50.86	-	-	-	-	68.2	-17.34	0-360	100	V

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

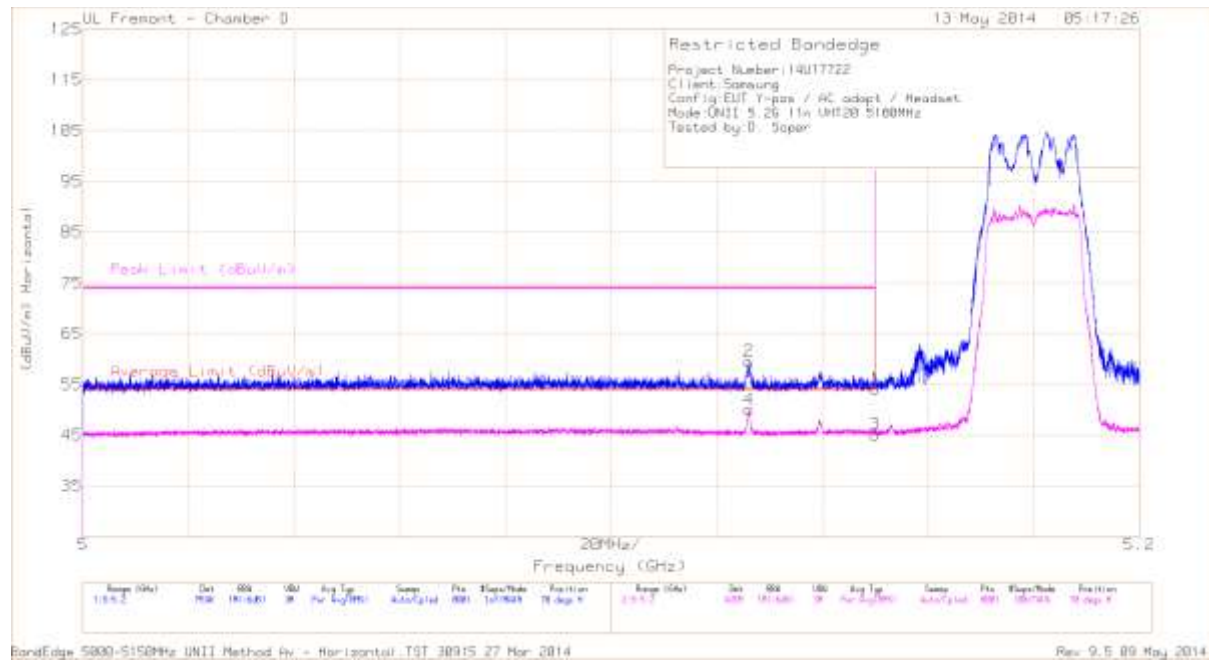
PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.789	41.81	PK1	33.5	-26.9	0	48.41	-	-	74	-25.59	-	-	327	101	H
* 4.787	30.02	AD1	33.5	-26.9	.3	36.92	54	-17.08	-	-	-	-	327	101	H
10.439	48.62	PK1	37.1	-21.5	0	64.22	-	-	-	-	68.2	-3.98	327	101	H
10.439	36.27	AD1	37.1	-21.5	.3	52.17	54	-1.83	74	-21.83	-	-	327	101	H

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

11.1.2. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.2 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

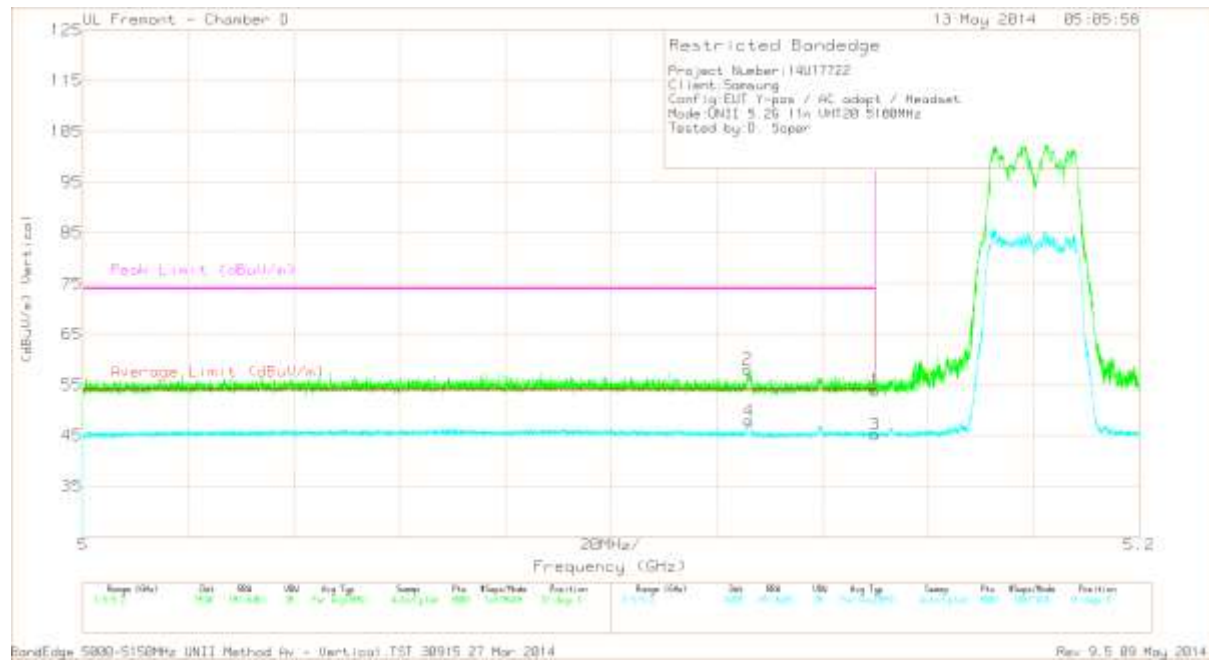


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	38.71	PK	33.7	-18.3	0	54.11	-	-	74	-19.89	70	181	H
2	* 5.126	44.14	PK	33.7	-18.3	0	59.54	-	-	74	-14.46	70	181	H
3	* 5.15	29.34	RMS	33.7	-18.3	.6	45.14	54	-8.86	-	-	70	181	H
4	* 5.126	34.2	RMS	33.7	-18.3	.6	50	54	-4	-	-	70	181	H

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

PK - Peak detector

RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (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	* 5.15	38.45	PK	33.7	-18.3	0	53.85	-	-	74	-20.15	31	117	V
2	* 5.126	42.73	PK	33.7	-18.3	0	58.13	-	-	74	-15.87	31	117	V
3	* 5.15	29.5	RMS	33.7	-18.3	.6	45.3	54	-8.7	-	-	31	117	V
4	* 5.126	32.22	RMS	33.7	-18.3	.6	48.02	54	-5.98	-	-	31	117	V

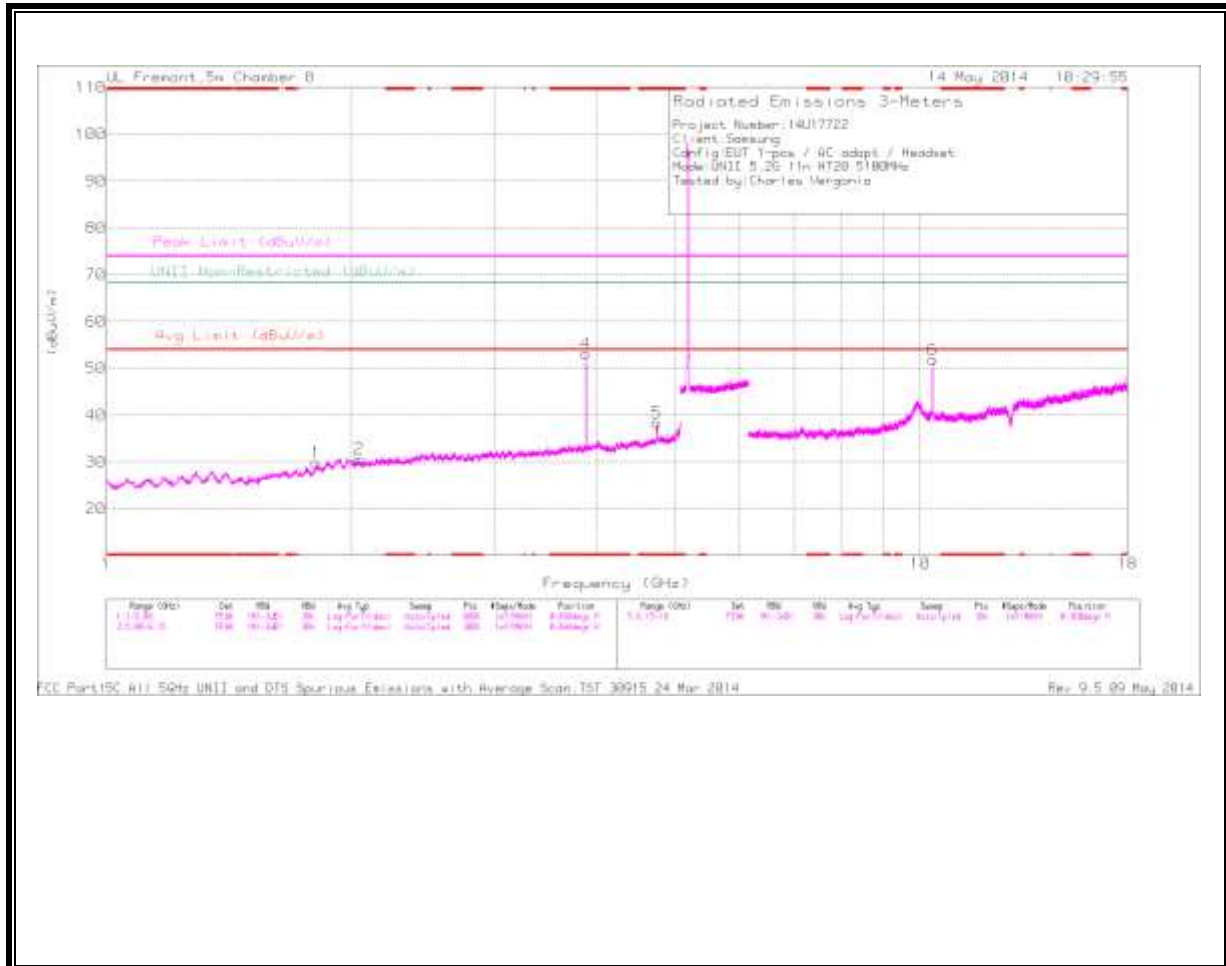
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

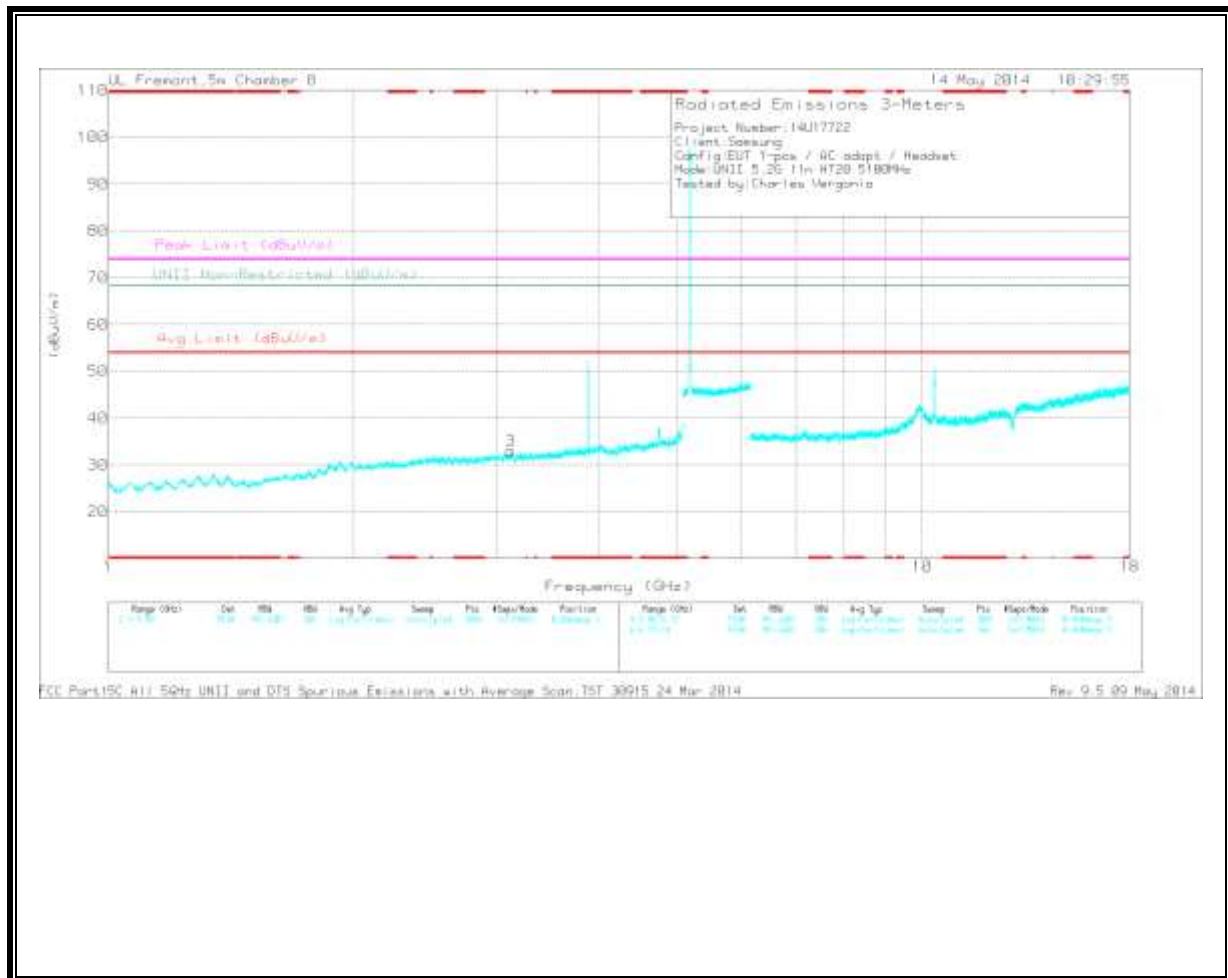
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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



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

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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 3.885	50.75	PK	33.8	-31.4	0	53.15	-	-	74	-20.85	-	-	0-360	99	H
5	* 4.745	33.99	PK	34.2	-29.8	0	38.39	-	-	74	-35.61	-	-	0-360	99	H
1	1.809	33.43	PK	30.3	-33.9	0	29.83	-	-	-	-	68.2	-38.37	0-360	99	H
2	2.045	33.04	PK	31.3	-33.7	0	30.64	-	-	-	-	68.2	-37.56	0-360	99	H
3	3.123	32	PK	32.8	-31.8	0	33	-	-	-	-	68.2	-35.2	0-360	99	V
6	10.36	37.38	PK	37.2	-22.7	0	51.88	-	-	-	-	68.2	-16.32	0-360	99	H

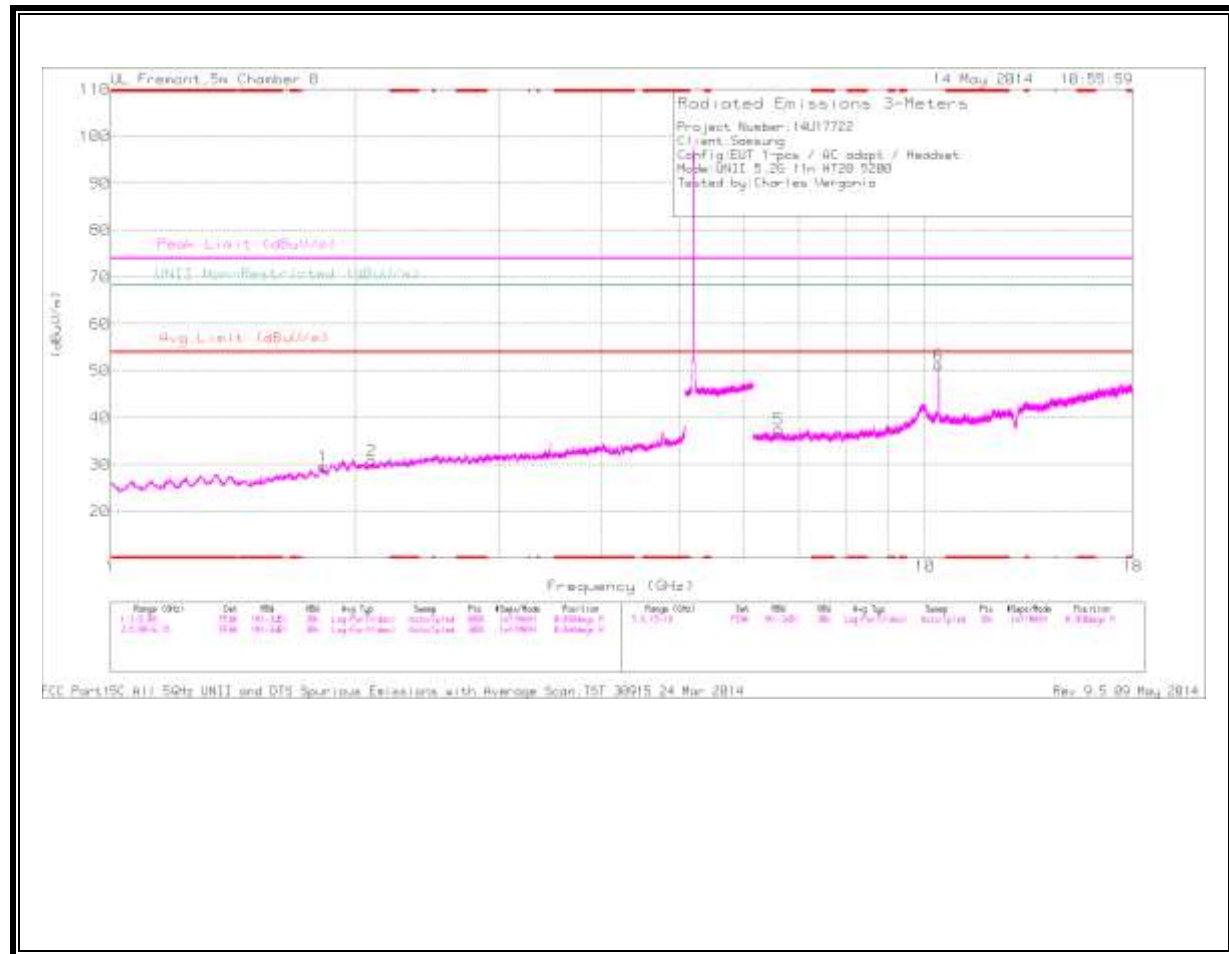
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

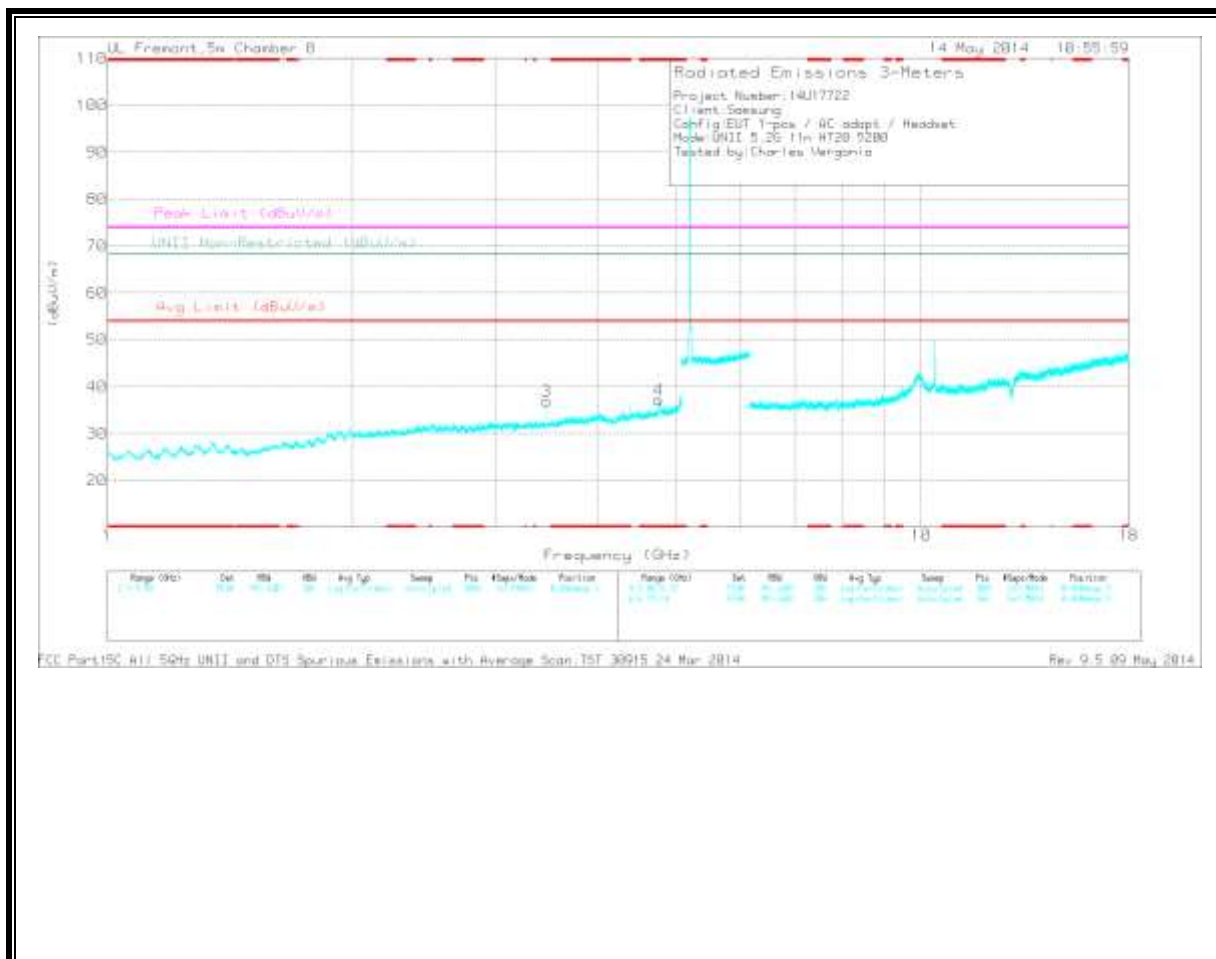
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.885	52.99	PK1	33.8	-31.4	0	55.39			74	-18.61	-	-	15	100	H
* 3.885	50.41	AD1	33.8	-31.4	.6	53.41	54	-0.59	74	-20.59	-	-	15	100	H
* 4.744	41.33	PK1	34.2	-29.8	0	45.73	54	-8.27	74	-28.27	-	-	15	100	H
* 4.744	29.86	AD1	34.2	-29.8	.6	34.86	54	-19.14	74	-39.14	-	-	15	100	H
3.122	41.11	PK1	32.8	-31.8	0	42.11	54	-11.89	74	-31.89	68.2	-26.09	359	100	V
10.361	35.68	AD1	37.2	-22.6	.6	50.88	54	-3.12	74	-23.12	-	-	169	124	H
10.363	48.5	PK1	37.3	-22.6	0	63.2			74	-10.8	68.2	-5	169	124	H

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



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



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	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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 4.759	32.6	PK	34.2	-29.6	0	37.2	-	-	74	-36.8	-	-	0-360	202	V
1	1.824	32.93	PK	30.4	-33.8	0	29.53	-	-	-	-	68.2	-38.67	0-360	202	H
2	2.095	33.29	PK	31.2	-33.6	0	30.89	-	-	-	-	68.2	-37.31	0-360	99	H
3	3.466	35.4	PK	32.8	-31.3	0	36.9	-	-	-	-	68.2	-31.3	0-360	99	V
5	6.618	29.71	PK	35.7	-27.8	0	37.61	-	-	-	-	68.2	-30.59	0-360	99	H
6	10.397	36.88	PK	37.3	-23	0	51.18	-	-	-	-	68.2	-17.02	0-360	99	H

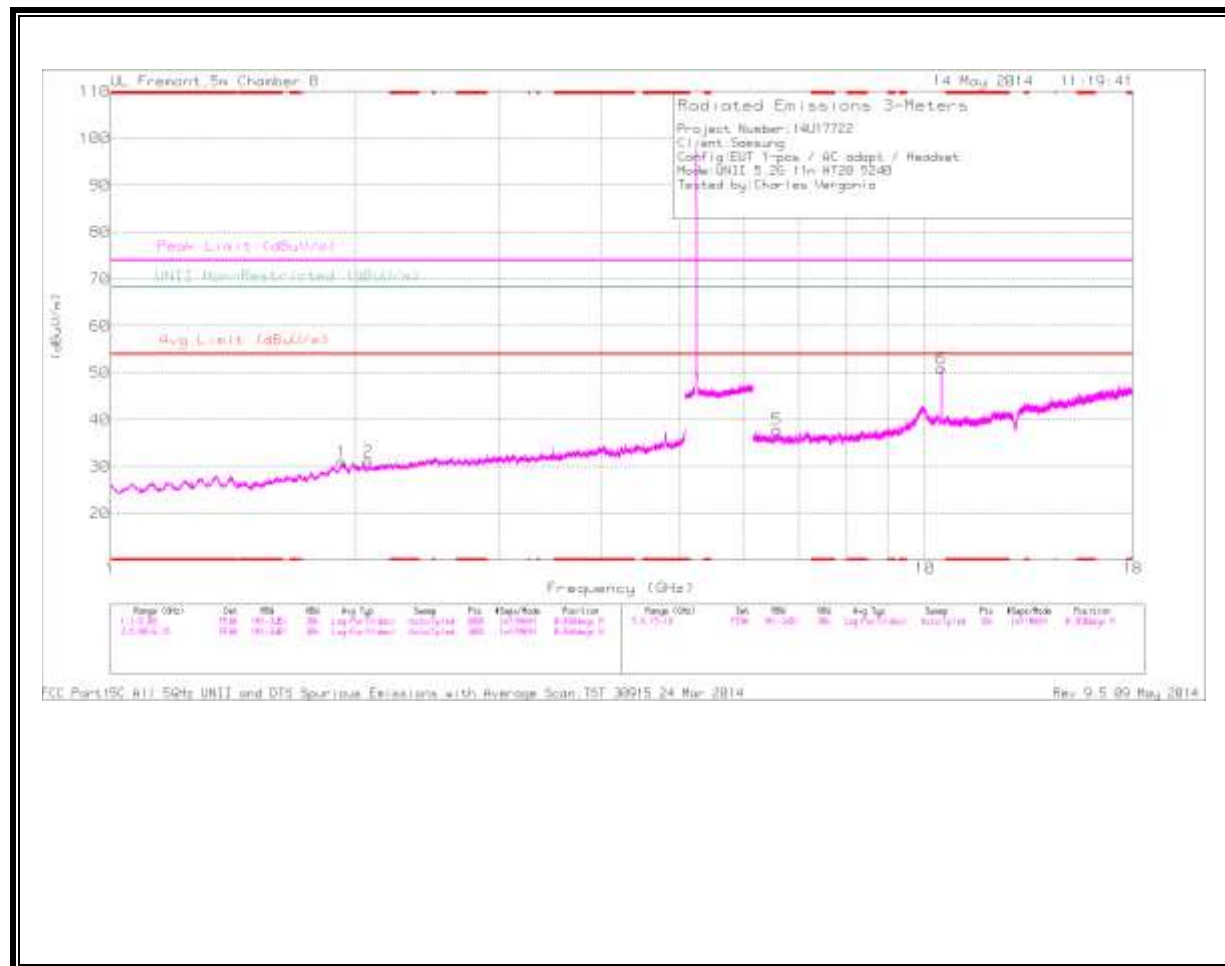
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

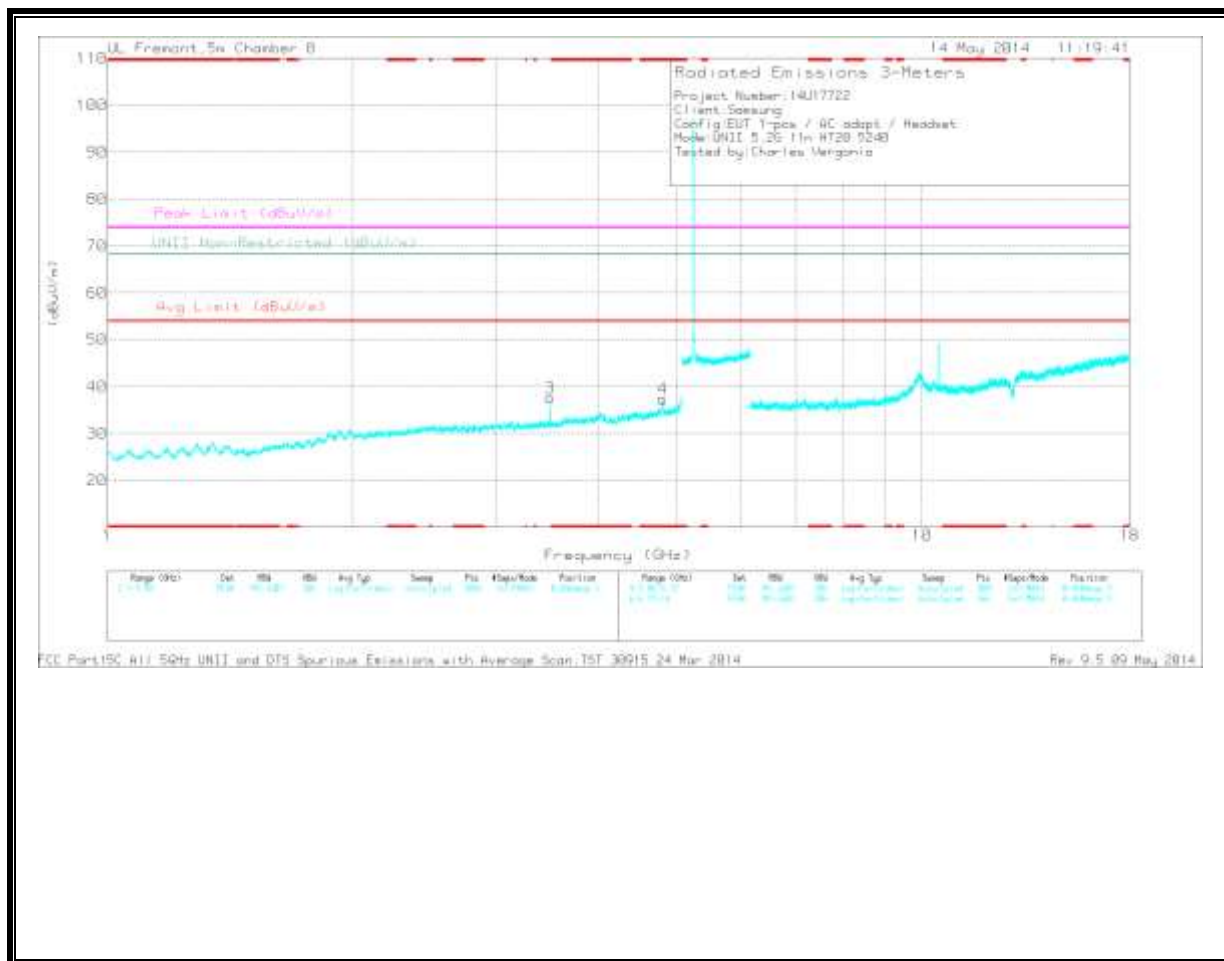
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.761	40.01	PK1	34.2	-29.6	0	44.61	-	-	74	-29.39	-	-	1	100	V
* 4.757	28.73	AD1	34.2	-29.6	.6	33.73	54	-20.27	-	-	-	-	1	100	V
10.398	47.64	PK1	37.3	-23	0	61.94	-	-	-	-	68.2	-6.26	170	121	H
10.401	35.15	AD1	37.3	-23.1	.6	49.75	-	-	-	-	-	-	170	121	H

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



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



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 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 4.802	32.59	PK	34.2	-29.4	0	37.39	-	-	74	-36.61	-	-	0-360	99	V
1	1.922	32.92	PK	31.1	-32.9	0	31.12	-	-	-	-	68.2	-37.08	0-360	201	H
2	2.073	33.59	PK	31.3	-33.8	0	31.09	-	-	-	-	68.2	-37.11	0-360	99	H
3	3.494	36.39	PK	32.8	-31.6	0	37.59	-	-	-	-	68.2	-30.61	0-360	202	V
5	6.581	29.71	PK	35.7	-27.5	0	37.91	-	-	-	-	68.2	-30.29	0-360	99	H
6	10.474	36.97	PK	37.4	-23.4	0	50.97	-	-	-	-	68.2	-17.23	0-360	99	H

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

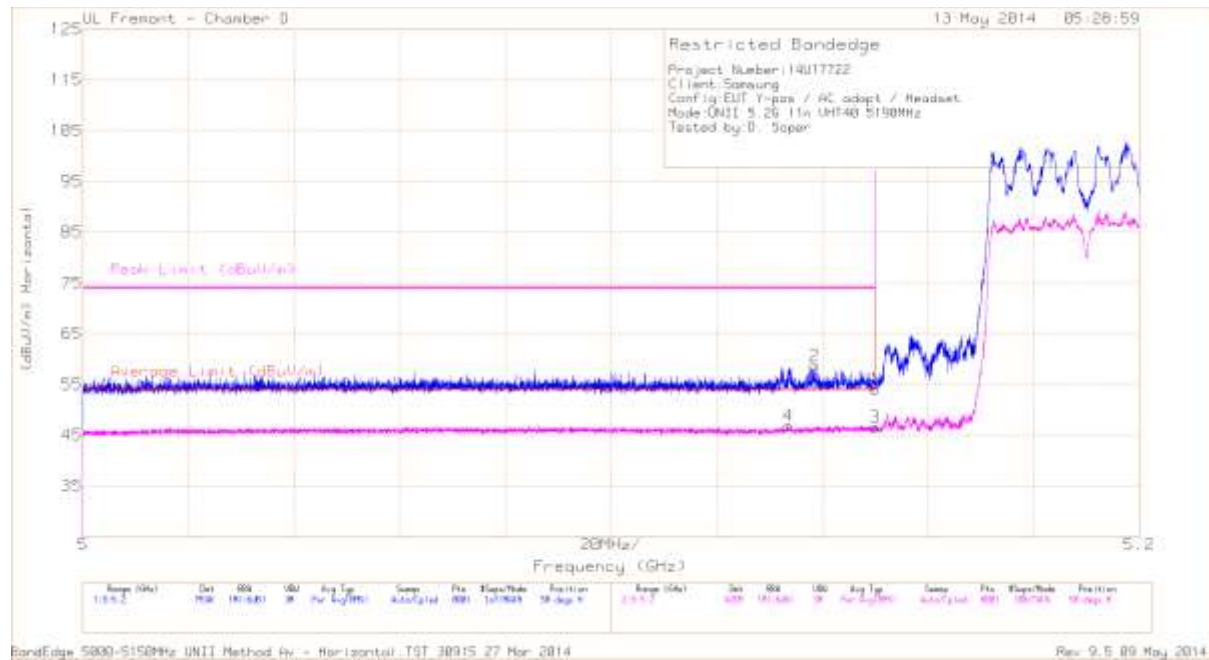
PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.801	40.5	PK1	34.2	-29.4	0	45.3	-	-	74	-28.7	-	-	1	100	V
* 4.803	28.85	AD1	34.2	-29.4	.6	34.05	54	-19.95	-	-	-	-	1	100	V
10.473	48.44	PK1	37.4	-23.4	0	62.44	-	-	-	-	68.2	-5.76	167	102	H
10.476	35.29	AD1	37.4	-23.4	.6	49.69	-	-	-	-	-	-	167	102	H

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

11.1.3. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.2 GHz BAND **RESTRICTED BANDEDGE (LOW CHANNEL)**

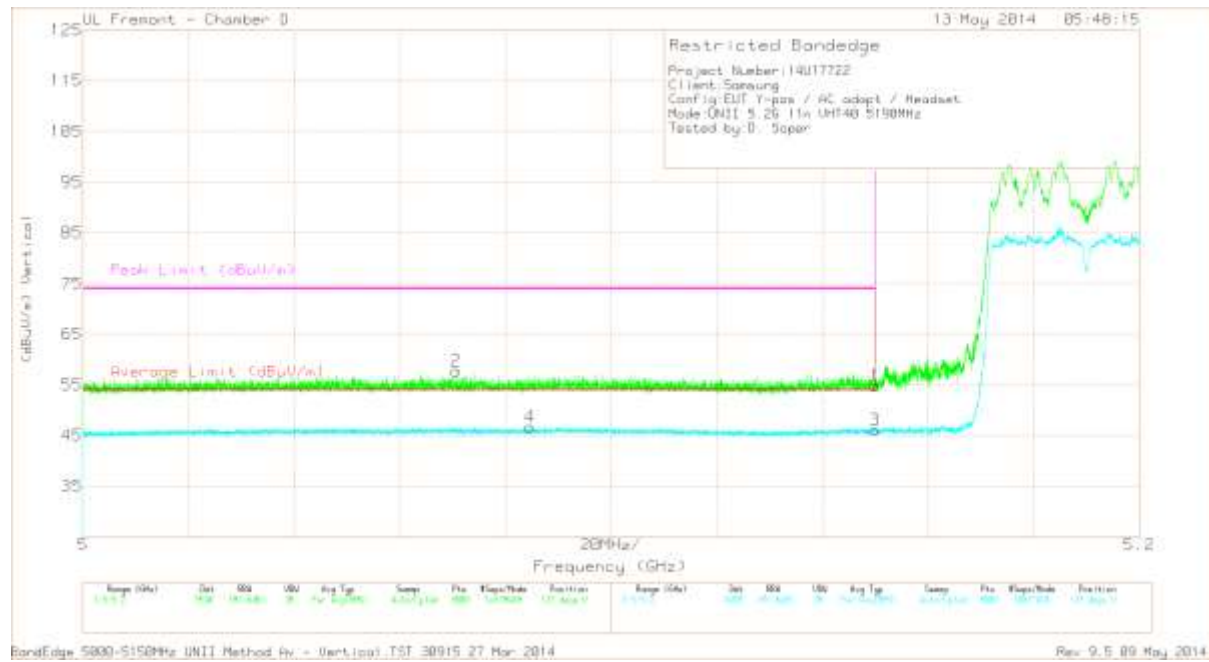


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	38.79	PK	33.7	-18.3	0	54.19	-	-	74	-19.81	58	182	H
2	* 5.139	43.25	PK	33.7	-18.3	0	58.65	-	-	74	-15.35	58	182	H
3	* 5.15	30.71	RMS	33.7	-18.3	1	46.71	54	-7.29	-	-	58	182	H
4	* 5.134	31.1	RMS	33.7	-18.4	1	47	54	-7	-	-	58	182	H

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

PK - Peak detector

RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (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	* 5.15	39.4	PK	33.7	-18.3	0	54.8	-	-	74	-19.2	137	176	V
2	* 5.071	42.11	PK	33.6	-18	0	57.71	-	-	74	-16.29	137	176	V
3	* 5.15	30.04	RMS	33.7	-18.3	1	46.04	54	-7.96	-	-	137	176	V
4	* 5.085	30.49	RMS	33.6	-18	1	46.69	54	-7.31	-	-	137	176	V

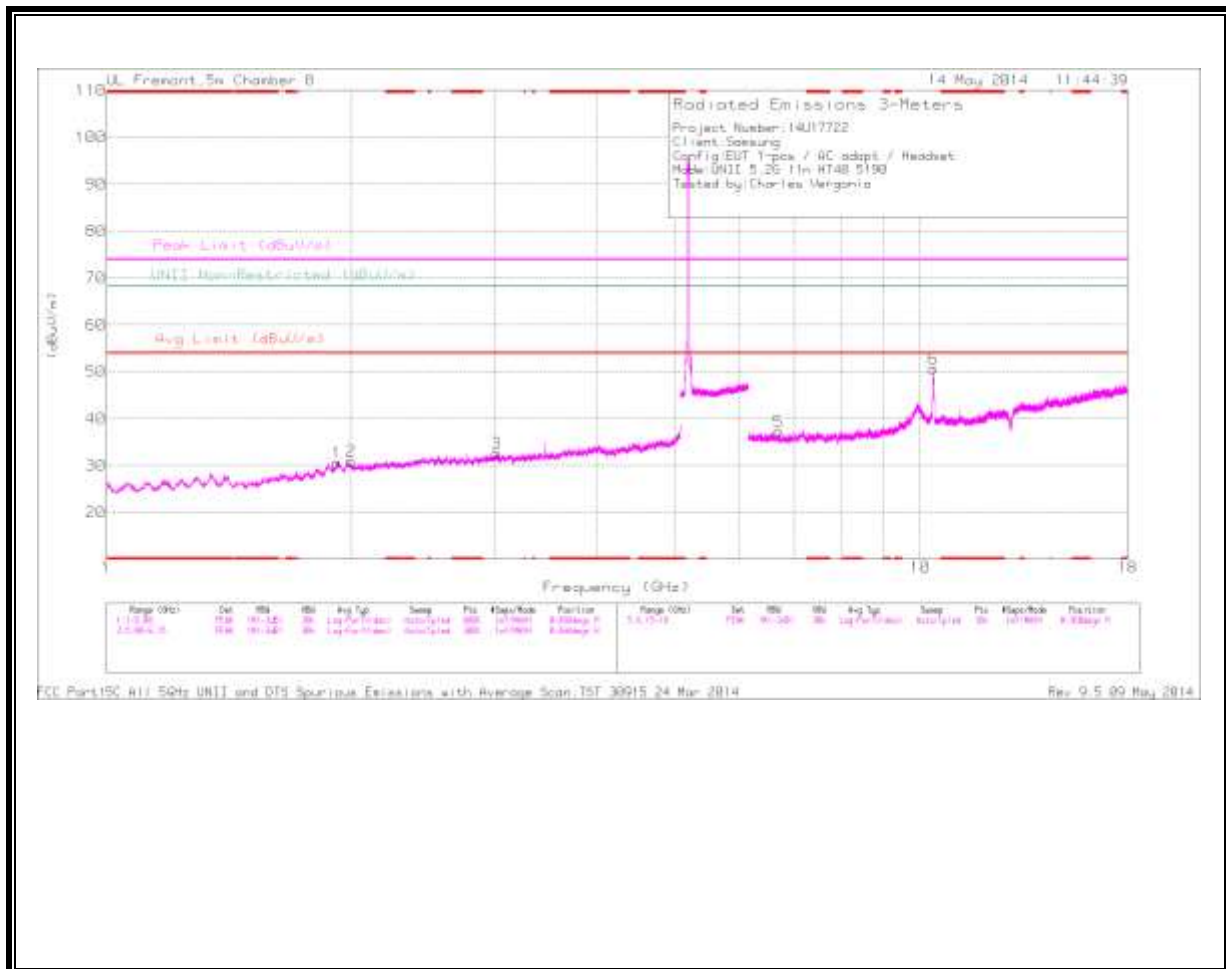
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

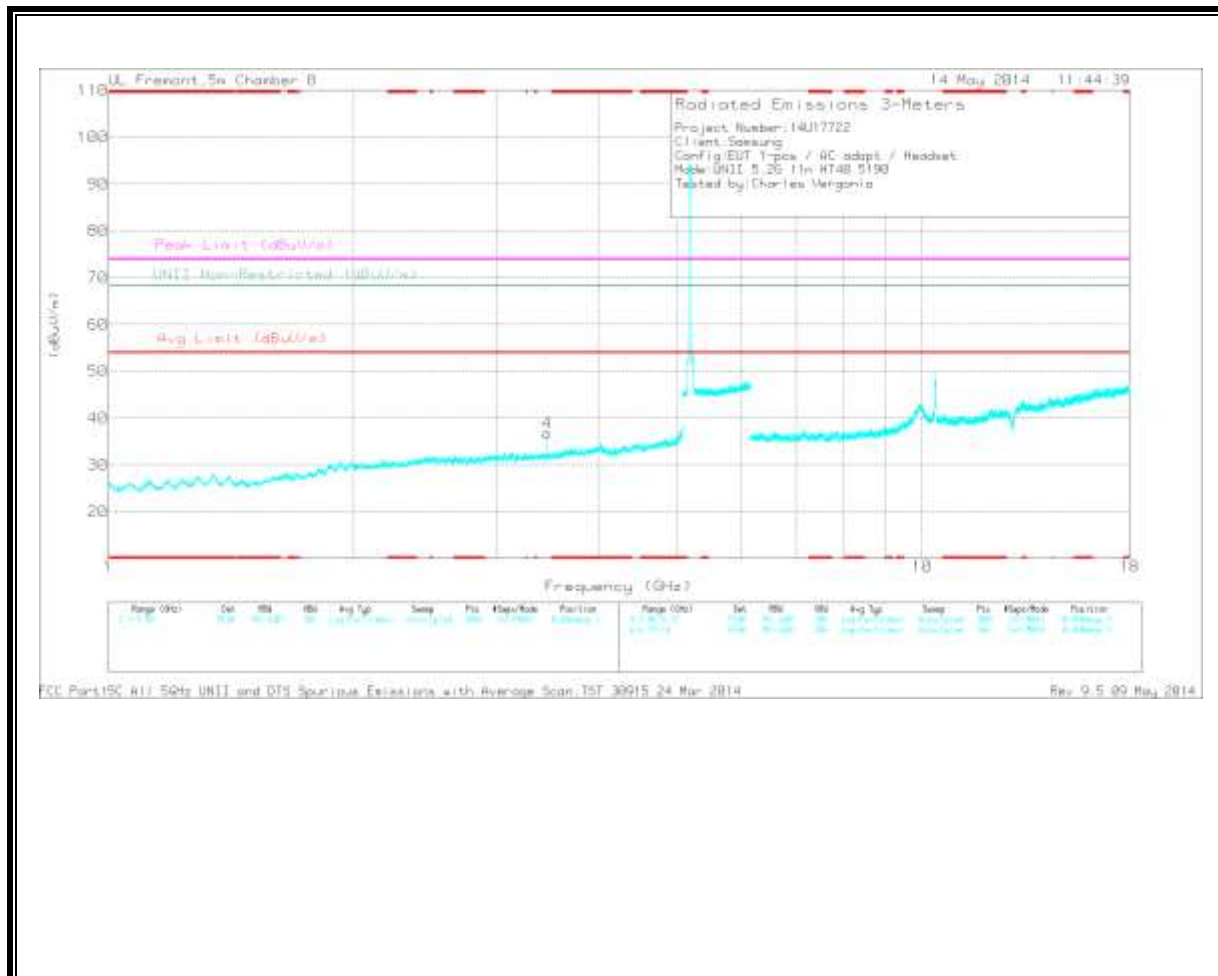
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL
HORIZONTAL



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



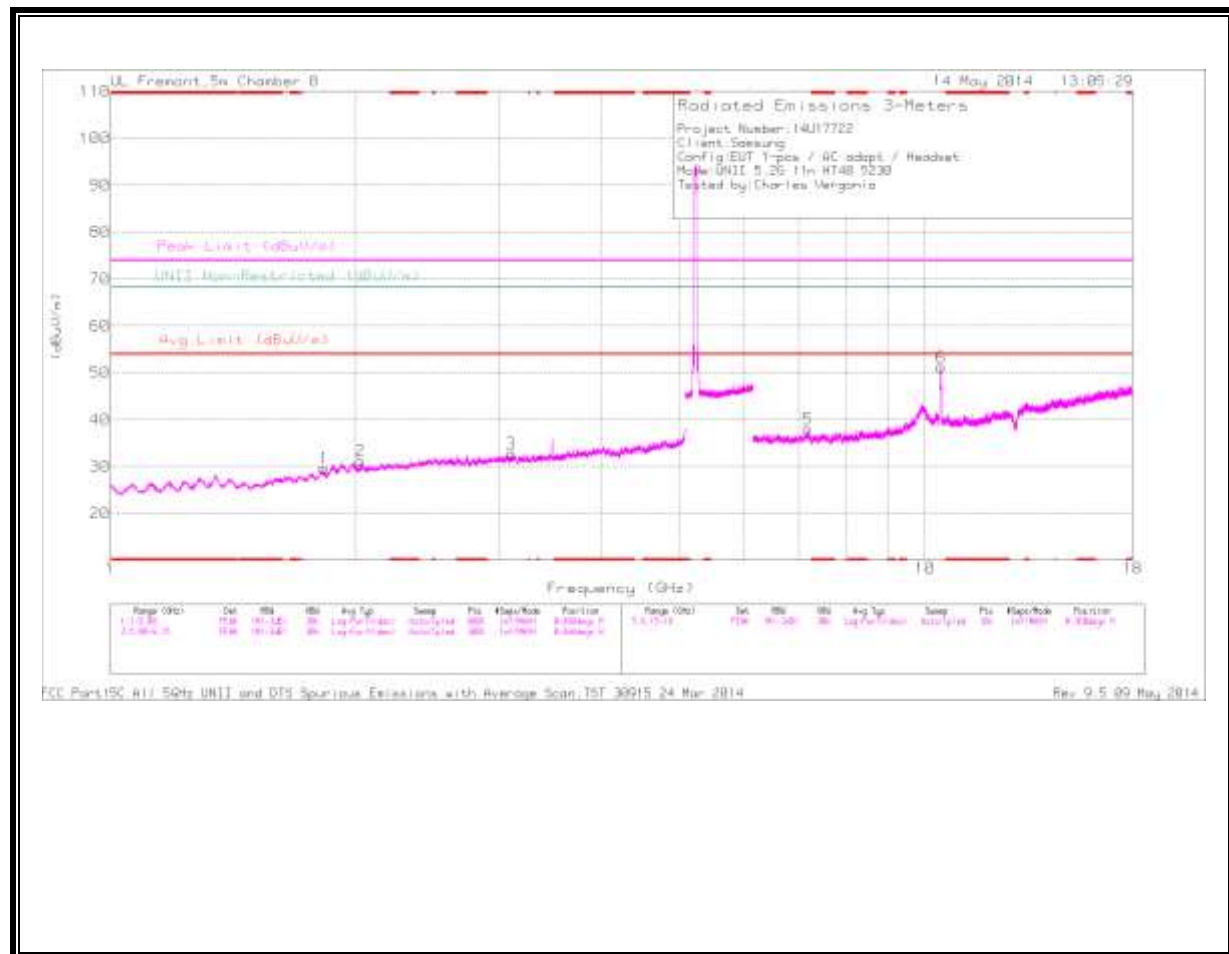
Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.919	32.38	PK	31.1	-32.9	0	30.58	-	-	-	-	68.2	-37.62	0-360	101	H
2	1.999	32.75	PK	31.3	-33.1	0	30.95	-	-	-	-	68.2	-37.25	0-360	101	H
3	3.014	31.81	PK	32.8	-32	0	32.61	-	-	-	-	68.2	-35.59	0-360	101	H
4	3.46	35.21	PK	32.8	-31.2	0	36.81	-	-	-	-	68.2	-31.39	0-360	202	V
5	6.691	30.32	PK	35.7	-28.8	0	37.22	-	-	-	-	68.2	-30.98	0-360	99	H
6	10.381	36.04	PK	37.3	-22.7	0	50.64	-	-	-	-	68.2	-17.56	0-360	99	H

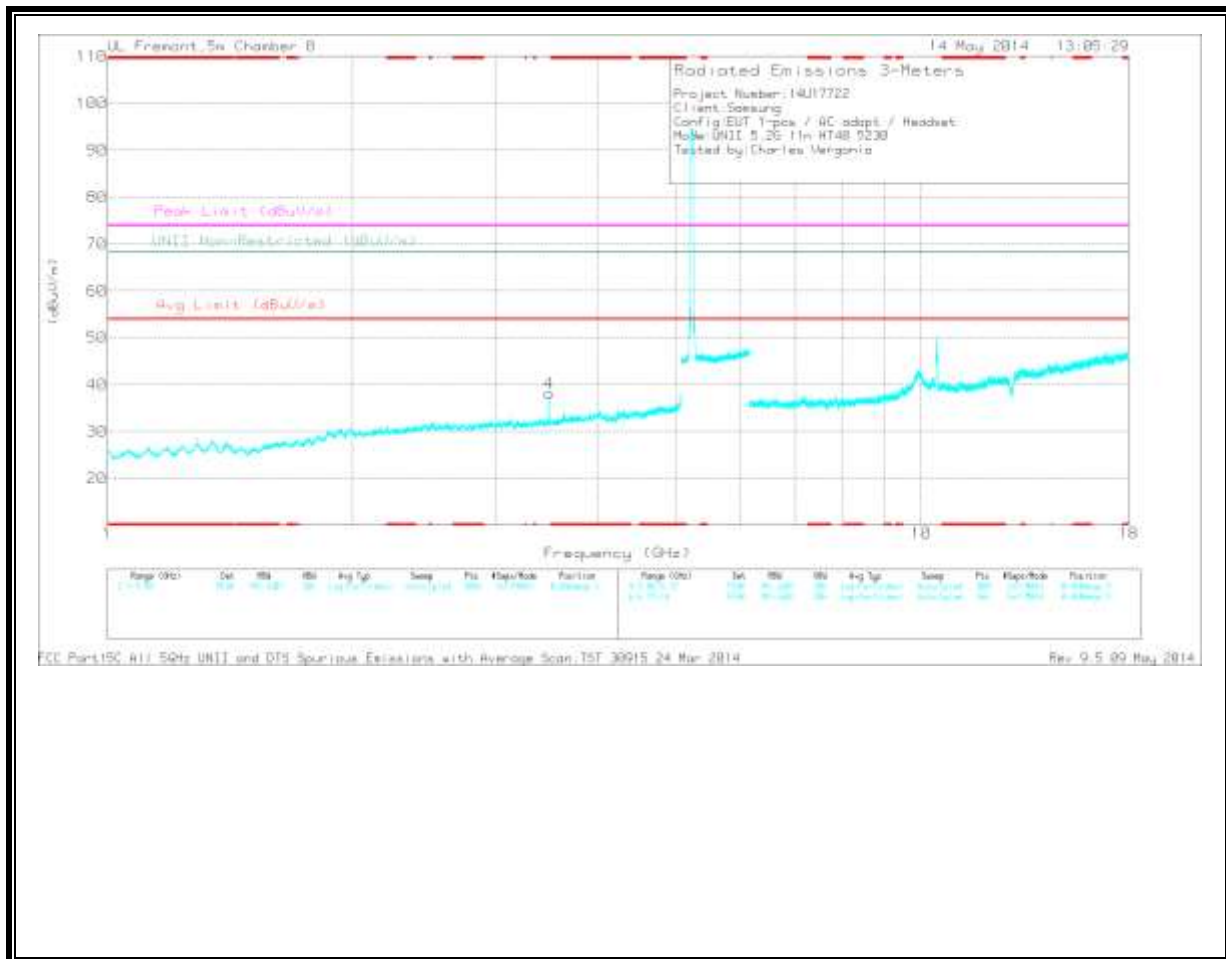
PK - Peak detector

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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3.461	40.4	PK1	32.8	-31.2	0	42	54	-12	74	-32	68.2	-26.2	1	100	V
3.463	29.24	AD1	32.8	-31.3	1	31.14	54	-22.86	74	-42.86	-	-	1	100	V
10.38	45.4	PK1	37.3	-22.7	0	60			74	-14	68.2	-8.2	349	109	H
10.381	33.01	AD1	37.3	-22.7	1	48.01	54	-5.99	74	-25.99	-	-	349	109	H



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



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

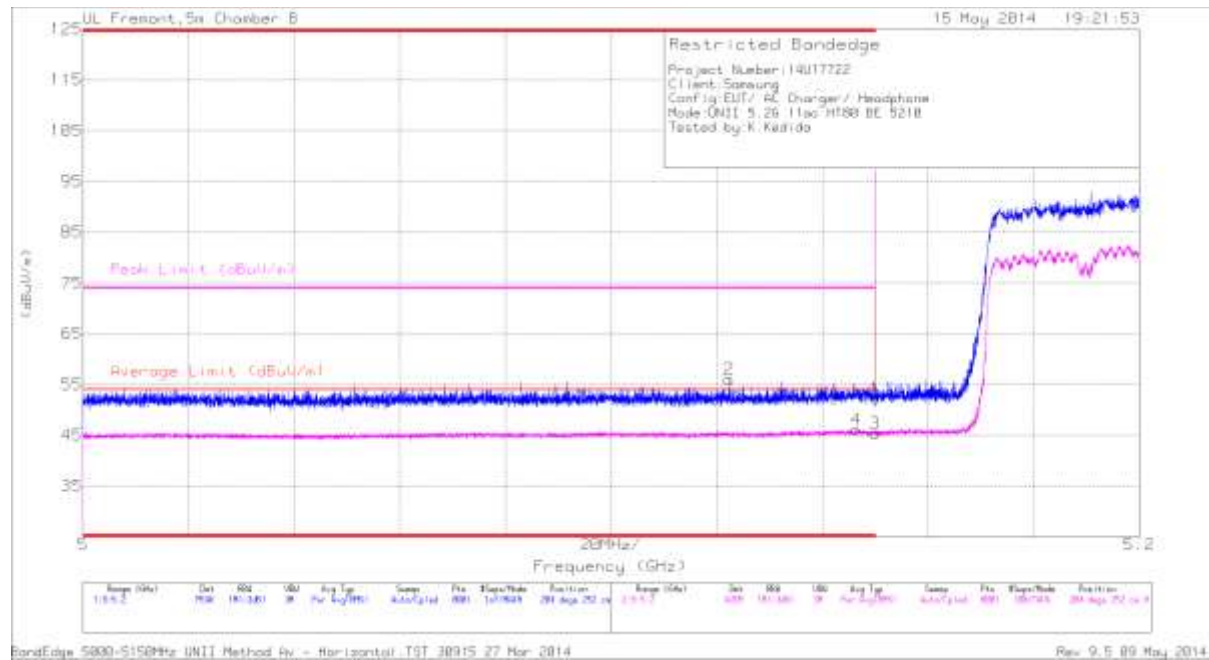
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.828	32.91	PK	30.4	-33.7	0	29.61	-	-	-	-	68.2	-38.59	0-360	99	H
2	2.027	33.38	PK	31.3	-33.5	0	31.18	-	-	-	-	68.2	-37.02	0-360	99	H
3	3.104	31.74	PK	32.9	-31.9	0	32.74	-	-	-	-	68.2	-35.46	0-360	99	H
4	3.487	36.79	PK	32.8	-31.5	0	38.09	-	-	-	-	68.2	-30.11	0-360	202	V
5	7.18	28.94	PK	35.6	-26.6	0	37.94	-	-	-	-	68.2	-30.26	0-360	99	H
6	10.461	37.26	PK	37.4	-23.4	0	51.26	-	-	-	-	68.2	-16.94	0-360	99	H

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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3.487	43.9	PK1	32.8	-31.5	0	45.2	54	-8.8	74	-28.8	68.2	-23	133	204	V
3.487	36.54	AD1	32.8	-31.5	1	38.24	54	-15.76	74	-35.76	-	-	133	204	V
10.46	46.97	PK1	37.4	-23.4	0	60.97			74	-13.03	68.2	-7.23	167	100	H
10.461	34.28	AD1	37.4	-23.4	1	48.68	54	-5.32	74	-25.32	-	-	167	100	H

11.1.4. TX ABOVE 1 GHz 802.11ac HT80 MODE IN THE 5.2 GHz BAND **RESTRICTED BANDEDGE (LOW CHANNEL)**

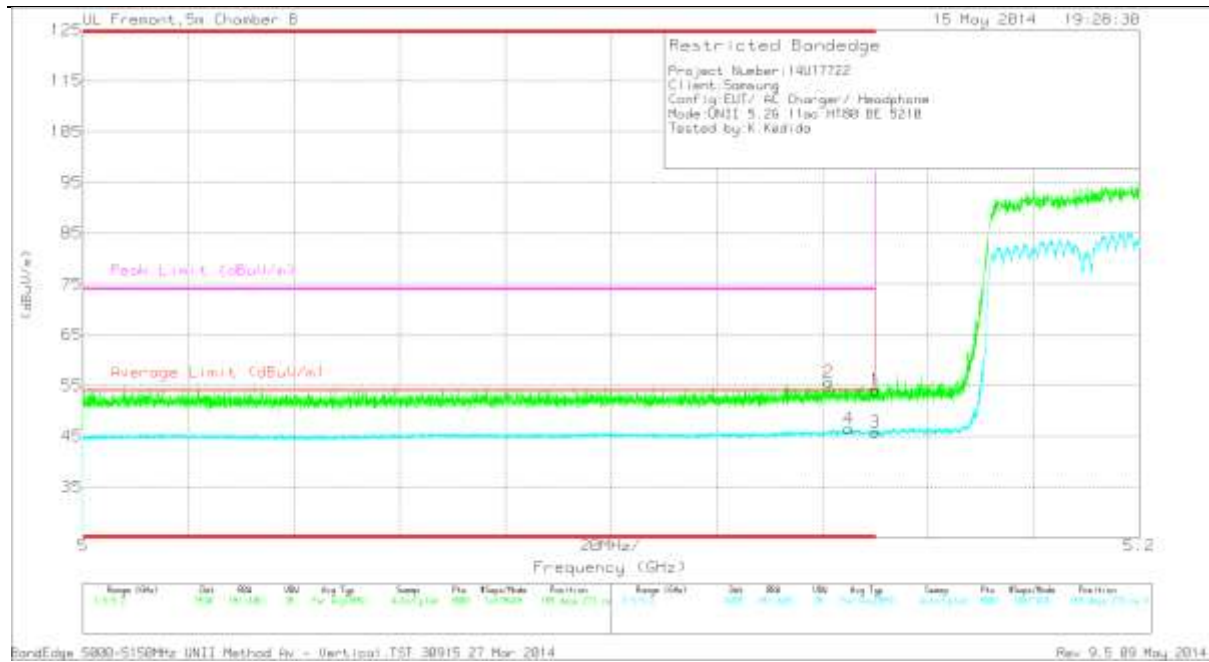


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.122	41.88	PK	34.3	-20.2	0	55.98	-	-	74	-18.02	204	252	H
4	* 5.146	30.32	RMS	34.3	-20.3	4	48.32	54	-5.68	-	-	204	252	H
1	* 5.15	38.26	PK	34.3	-20.3	0	52.26	-	-	74	-21.74	204	252	H
3	* 5.15	29.57	RMS	34.3	-20.3	4	47.57	54	-6.43	-	-	204	252	H

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

PK - Peak detector

RMS - RMS detection



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
2	* 5.141	41.55	PK	34.3	-20.2	0	55.65	-	-	74	-18.35	189	273	V
4	* 5.145	30.56	RMS	34.3	-20.2	4	48.66	54	-5.34	-	-	189	273	V
1	* 5.15	40.15	PK	34.3	-20.3	0	54.15	-	-	74	-19.85	189	273	V
3	* 5.15	30.02	RMS	34.3	-20.3	4	48.02	54	-5.98	-	-	189	273	V

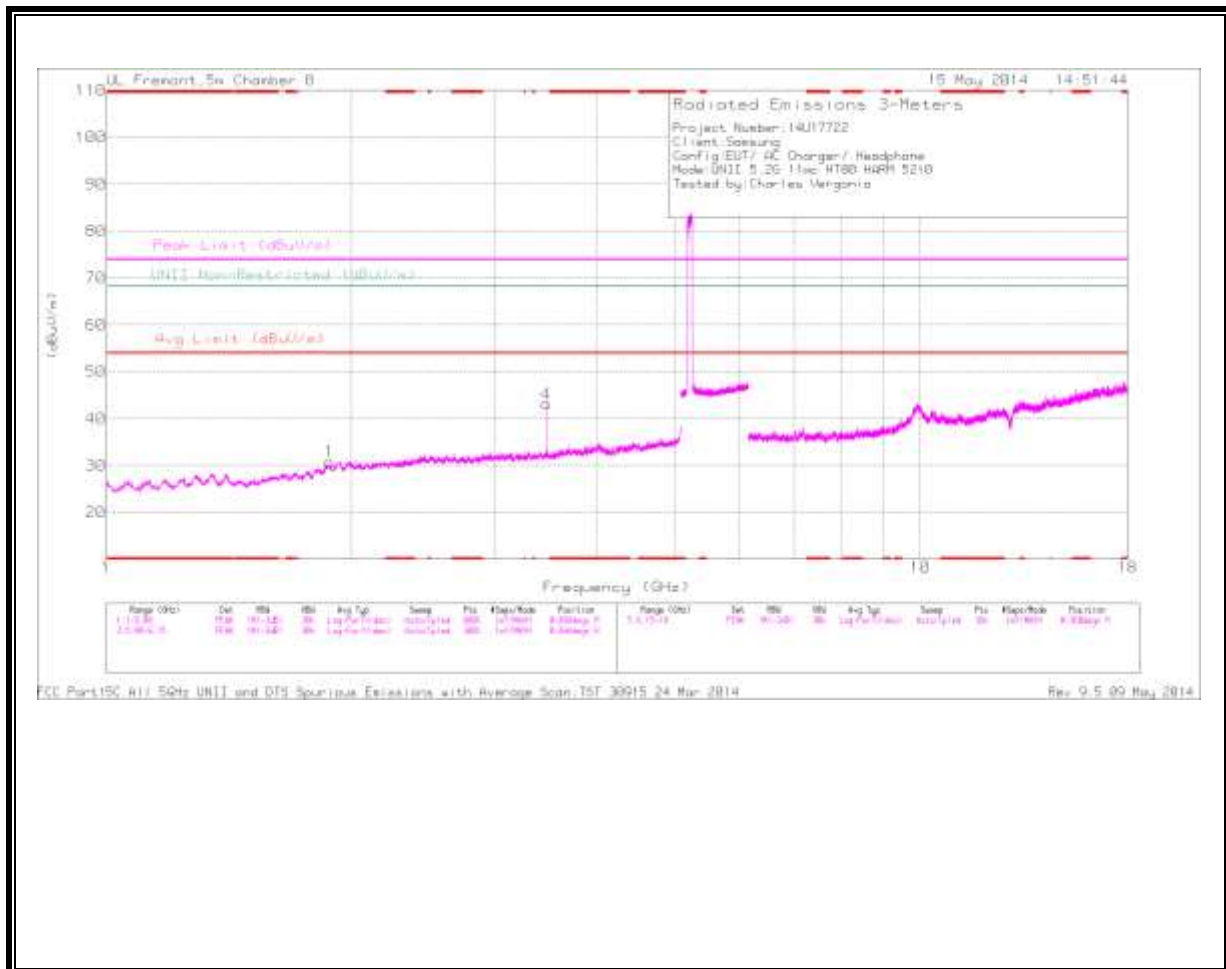
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

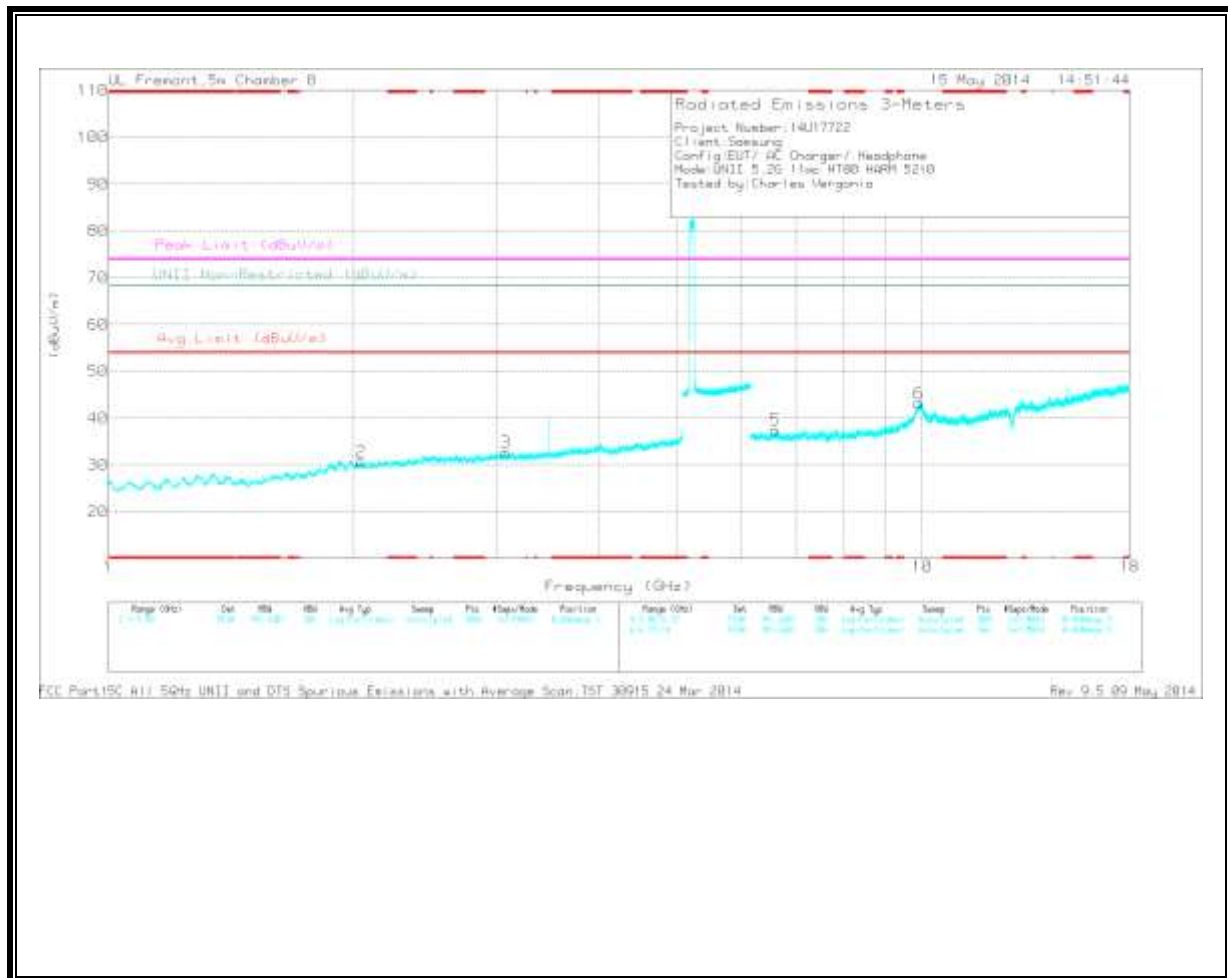
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL
HORIZONTAL



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



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	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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.879	32.97	PK	30.9	-33.1	0	30.77	-	-	-	-	68.2	-37.43	0-360	202	H
2	2.043	33.03	PK	31.3	-33.6	0	30.73	-	-	-	-	68.2	-37.47	0-360	202	V
3	3.079	31.91	PK	32.9	-32.1	0	32.71	-	-	-	-	68.2	-35.49	0-360	99	V
4	3.474	41.89	PK	32.8	-31.5	0	43.19	-	-	-	-	68.2	-25.01	0-360	202	H
5	6.609	29.34	PK	35.7	-27.6	0	37.44	-	-	-	-	68.2	-30.76	0-360	202	V
6	9.908	30.27	PK	37	-24.1	0	43.17	-	-	-	-	68.2	-25.03	0-360	99	V

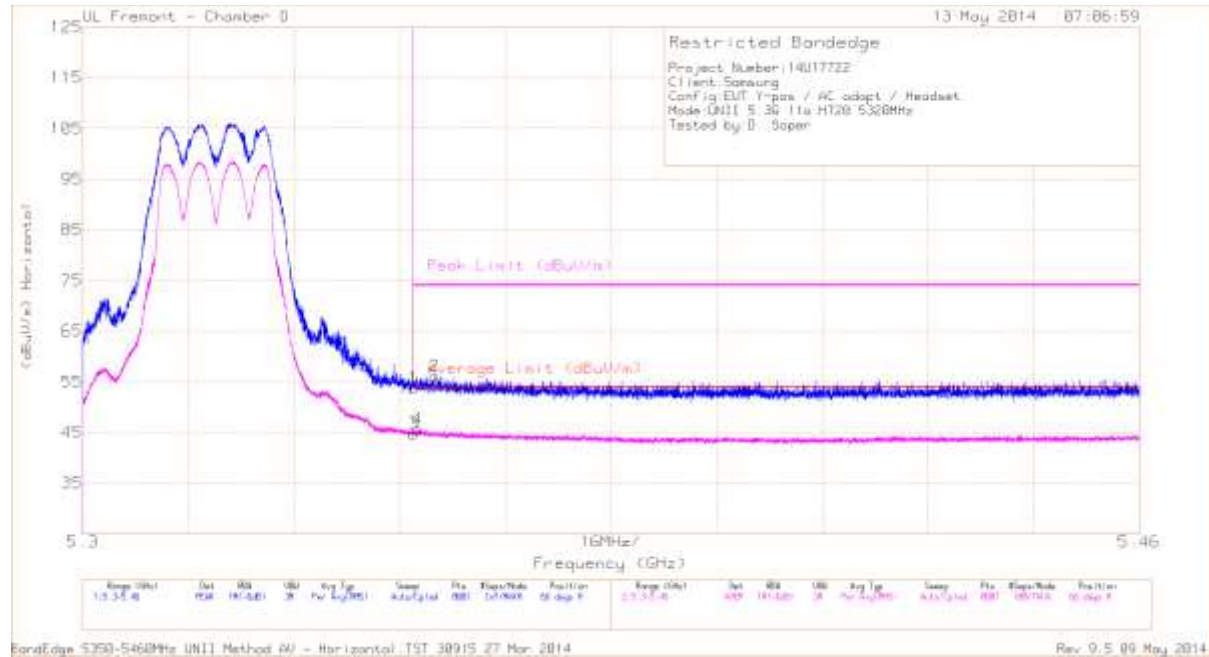
PK - Peak detector

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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3.473	47.51	PK1	32.8	-31.5	0	48.81	-	-	-	-	68.2	-19.39	119	204	H
3.473	43.12	AD1	32.8	-31.5	4	48.32	-	-	-	-	-	-	119	204	H
9.907	39.31	PK1	37	-24.1	0	52.21	-	-	-	-	68.2	-15.99	1	100	V
9.909	27.93	AD1	37	-24.1	4	44.73	-	-	-	-	-	-	1	100	V

11.2. 5.3 GHz

11.2.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.3 GHz BAND AUTHORIZED BANDEDGE (HIGH CHANNEL)

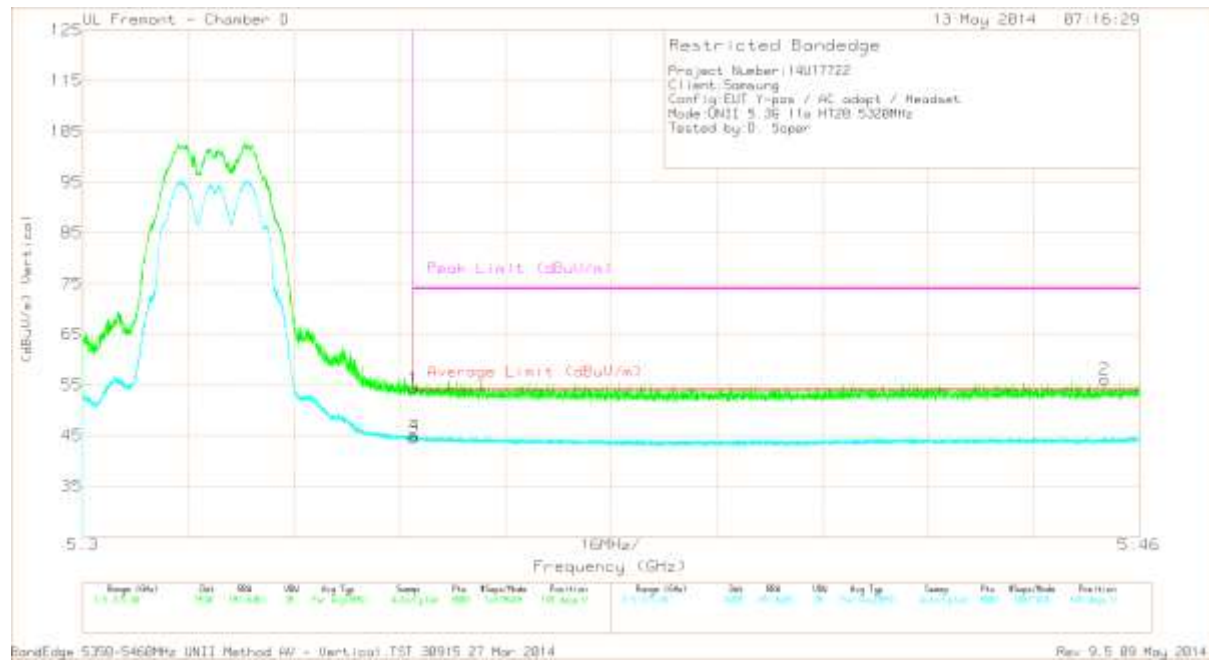


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	38.02	PK	33.8	-18.1	0	53.72	-	-	74	-20.28	66	177	H
2	* 5.353	40.43	PK	33.8	-18.1	0	56.13	-	-	74	-17.87	66	177	H
3	* 5.35	29.09	RMS	33.8	-18.1	0.3	44.79	54	-9.21	-	-	66	177	H
4	* 5.351	29.98	RMS	33.8	-18.1	0.3	45.68	54	-8.32	-	-	66	177	H

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

PK - Peak detector

RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fil 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	* 5.35	38.52	PK	33.8	-18.1	0	54.22	-	-	74	-19.78	149	155	V
2	* 5.455	40.11	PK	33.9	-17.9	0	56.11	-	-	74	-17.89	149	155	V
3	* 5.35	28.63	RMS	33.8	-18.1	.3	44.63	54	-9.37	-	-	149	155	V
4	* 5.35	29	RMS	33.8	-18.1	.3	45	54	-9	-	-	149	155	V

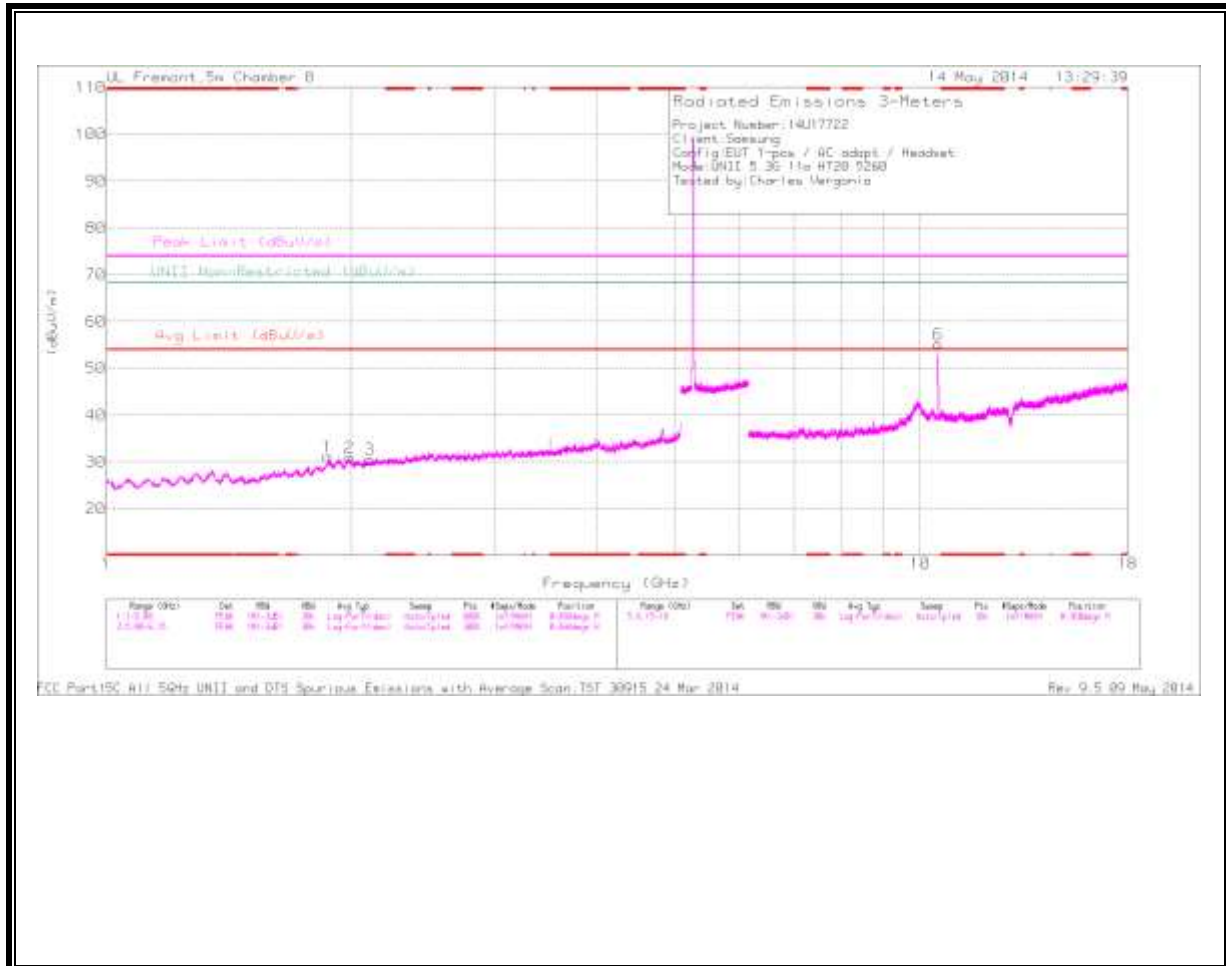
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

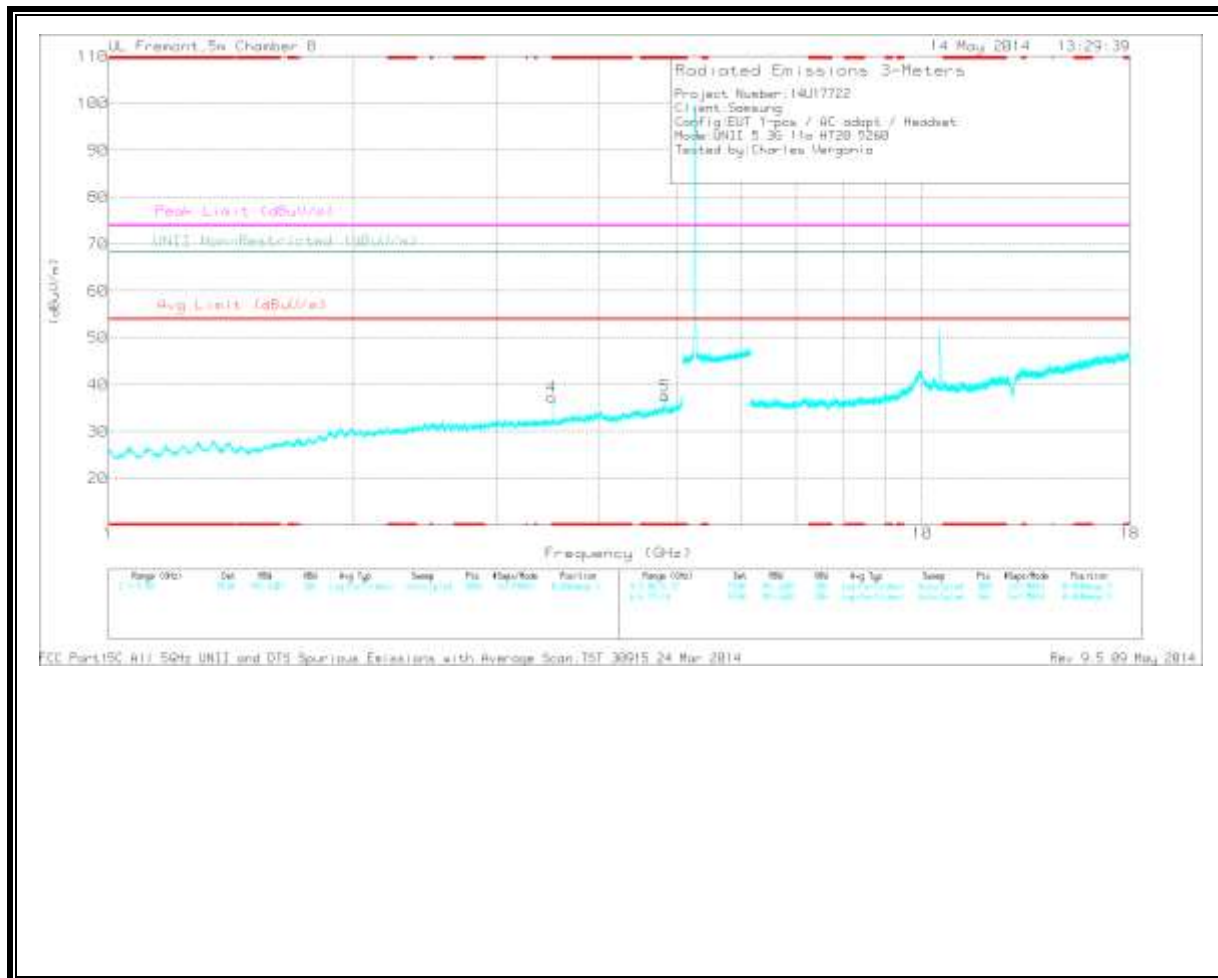
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL
HORIZONTAL



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



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	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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 3.506	36.24	PK	32.8	-31.7	0	37.34	-	-	74	-36.66	-	-	0-360	202	V
5	* 4.829	33.42	PK	34.2	-30	0	37.62	-	-	74	-36.38	-	-	0-360	99	V
1	1.87	33.49	PK	30.8	-33.2	0	31.09	-	-	-	-	68.2	-37.11	0-360	99	H
2	1.989	32.68	PK	31.3	-33	0	30.98	-	-	-	-	68.2	-37.22	0-360	202	H
3	2.106	32.92	PK	31.2	-33.5	0	30.62	-	-	-	-	68.2	-37.58	0-360	99	H
6	10.521	40.76	PK	37.5	-23.1	0	55.16	-	-	-	-	68.2	-13.04	0-360	99	H

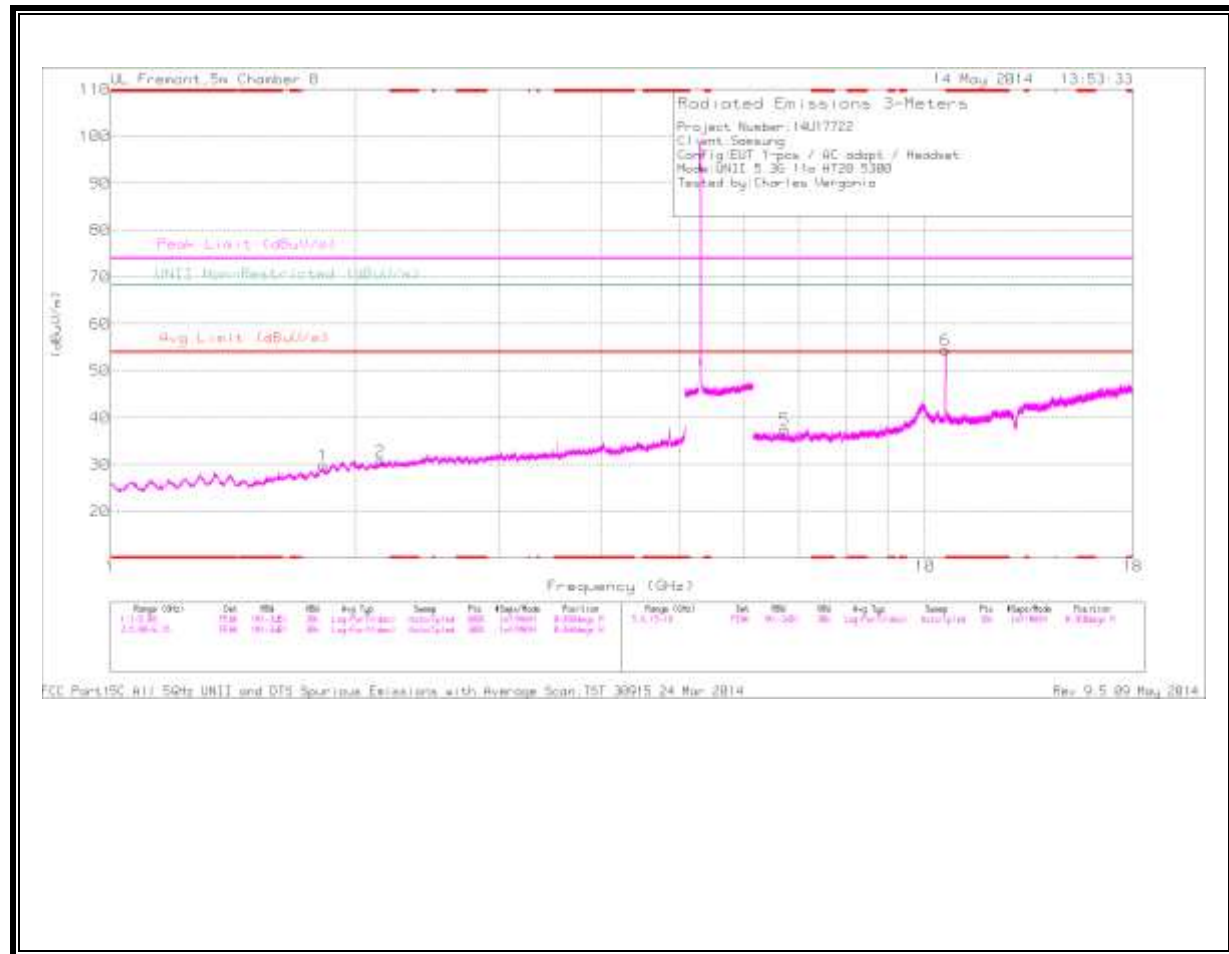
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

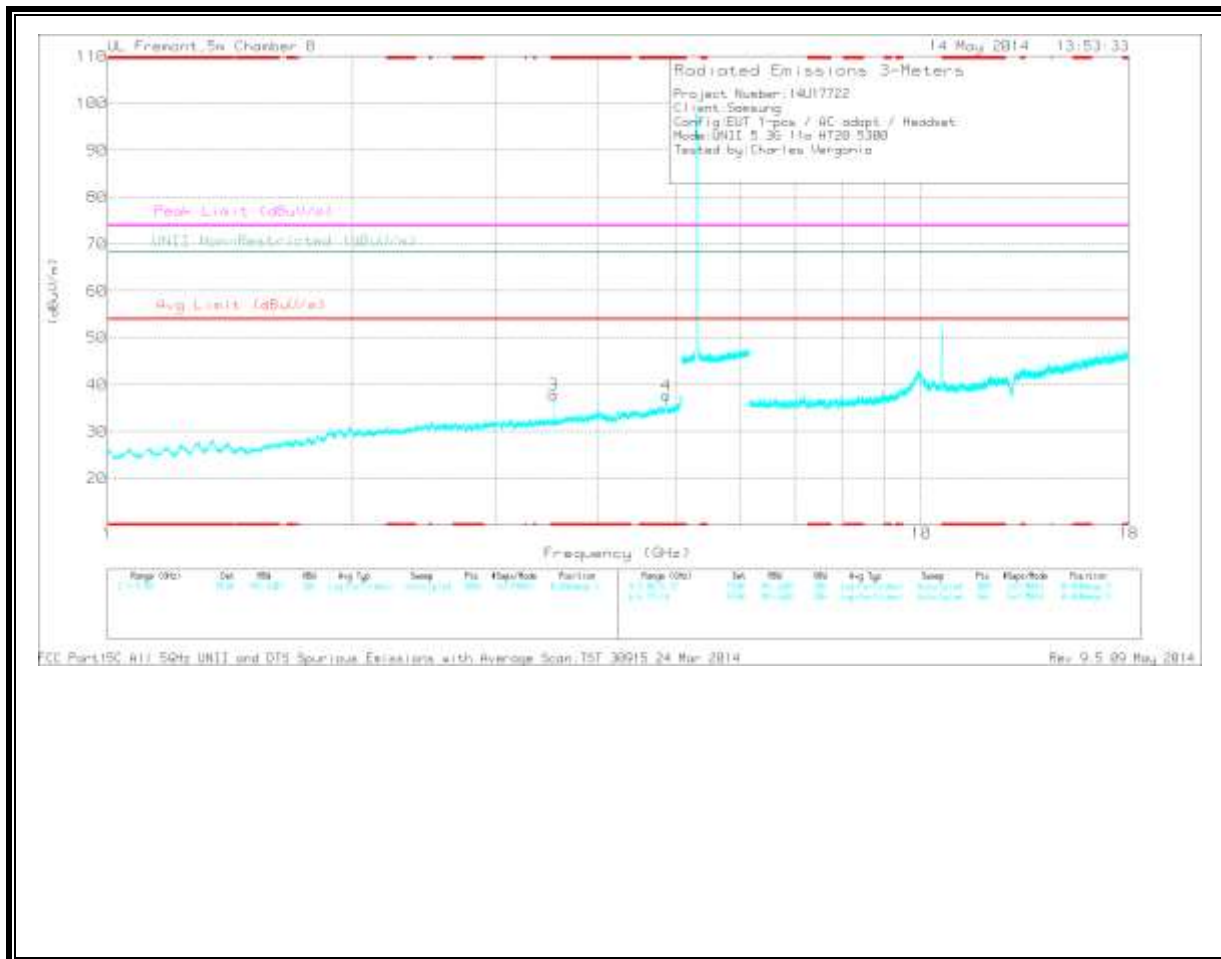
PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.505	40.59	PK1	32.8	-31.7	0	41.69	-	-	74	-32.31	-	-	1	204	V
* 3.507	29.85	AD1	32.8	-31.7	.3	31.25	54	-22.75	-	-	-	-	1	204	V
* 4.828	40.37	PK1	34.2	-30	0	44.57	-	-	74	-29.43	-	-	1	100	V
* 4.83	29.12	AD1	34.2	-30	.3	33.62	54	-20.38	-	-	-	-	1	100	V
10.519	51.23	PK1	37.5	-23.1	0	65.63	-	-	-	-	68.2	-2.57	283	122	H
10.52	38.8	AD1	37.5	-23.1	.3	53.5	54	-0.5	-	-	-	-	283	122	H

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





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	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (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	* 3.533	36.87	PK	32.9	-31.9	0	37.87	-	-	74	-36.13	-	-	0-360	202	V
4	* 4.86	33.66	PK	34.2	-30.1	0	37.76	-	-	74	-36.24	-	-	0-360	99	V
1	1.826	33.18	PK	30.4	-33.8	0	29.78	-	-	-	-	68.2	-38.42	0-360	99	H
2	2.147	32.25	PK	31.3	-32.8	0	30.75	-	-	-	-	68.2	-37.45	0-360	202	H
5	6.726	30.28	PK	35.7	-28.5	0	37.48	-	-	-	-	68.2	-30.72	0-360	202	H
6	10.599	39.55	PK	37.7	-22.8	0	54.45	-	-	-	-	68.2	-13.75	0-360	99	H

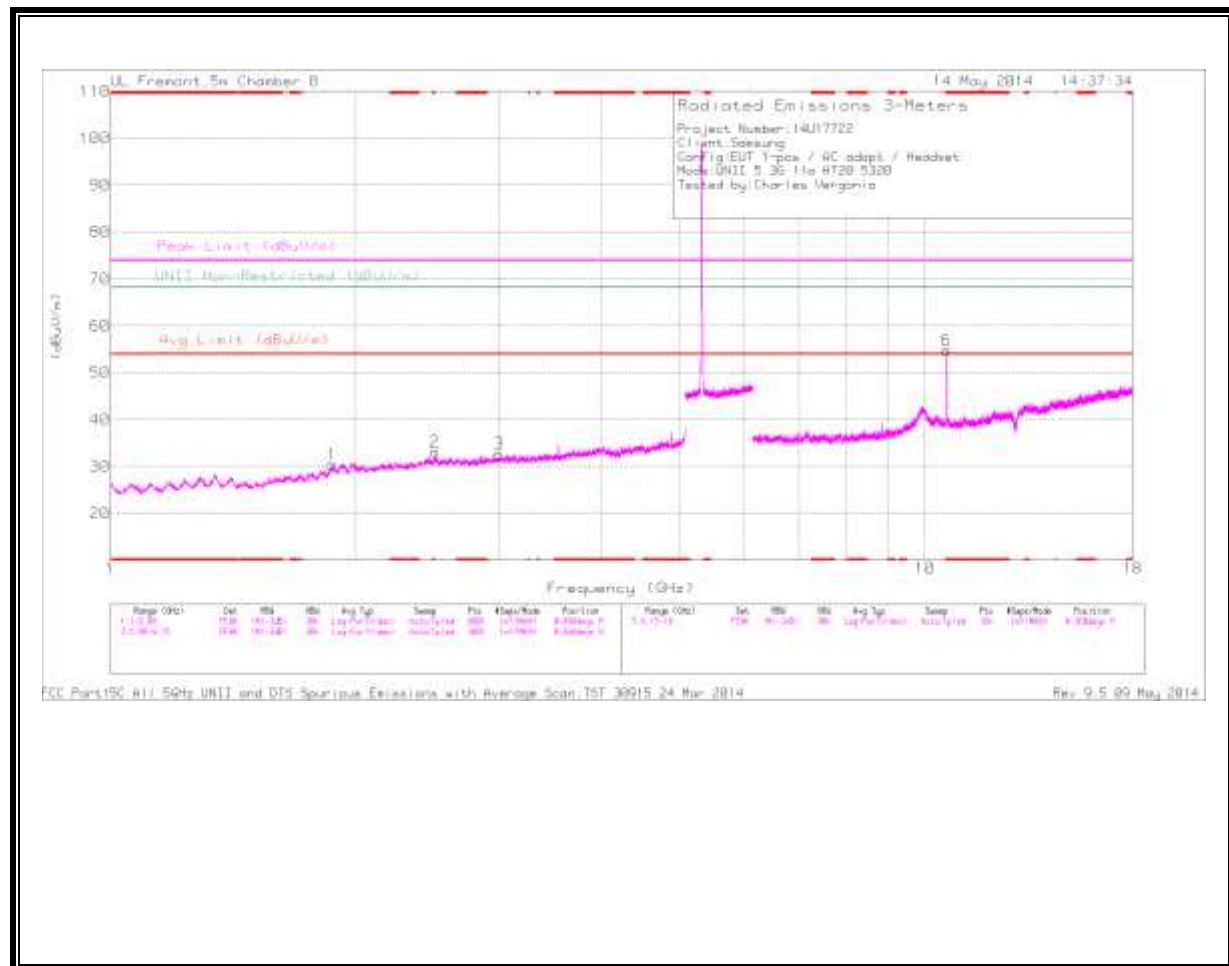
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

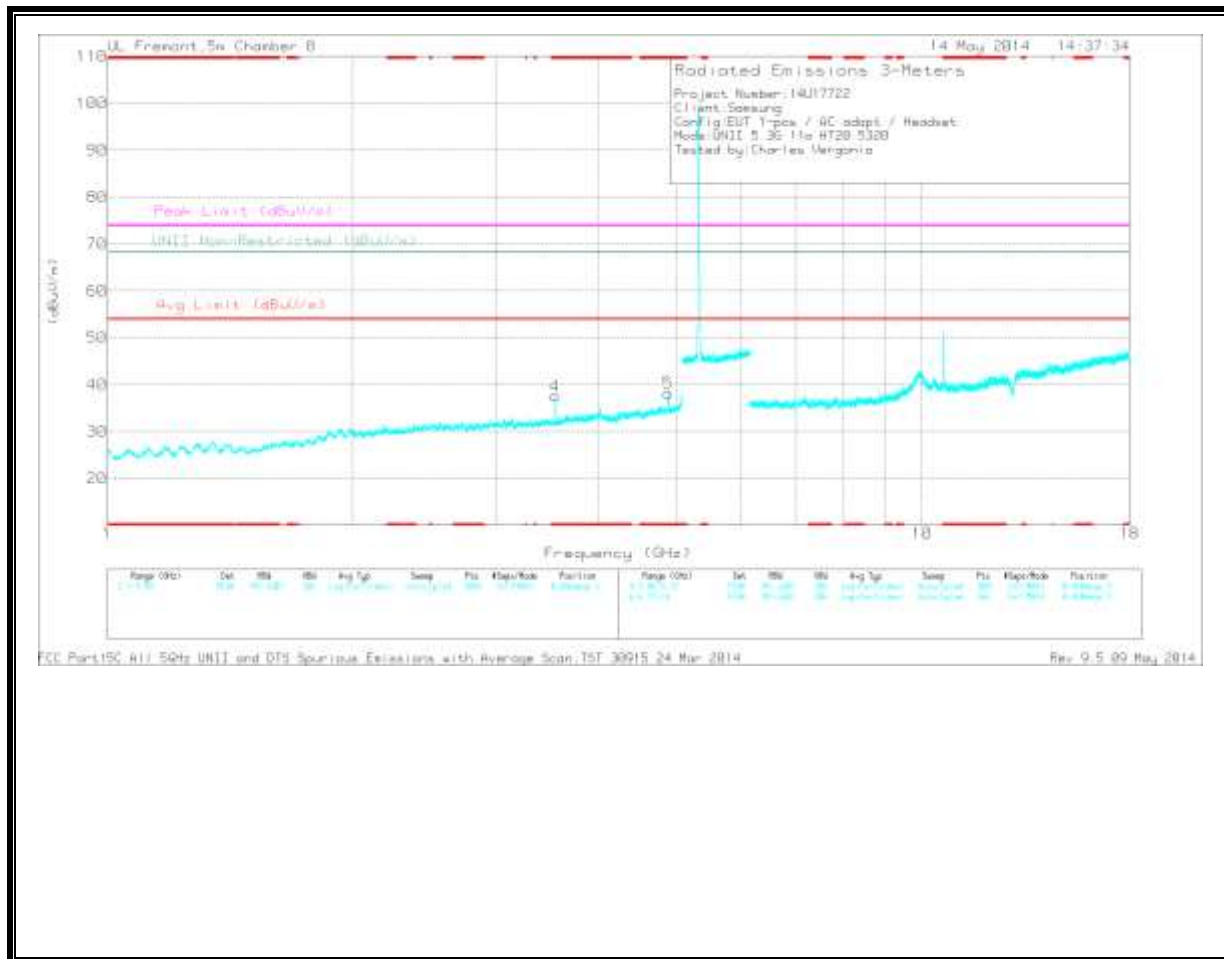
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (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
* 3.533	41.33	PK1	32.9	-31.9	0	42.33	-	-	74	-31.67	-	-	360	204	V
* 3.533	29.96	AD1	32.9	-31.9	.3	31.26	54	-22.74	-	-	-	-	360	204	V
* 4.861	40.34	PK1	34.2	-30.1	0	44.44	-	-	74	-29.56	-	-	360	100	V
* 4.862	29.12	AD1	34.2	-30.1	.3	33.52	54	-20.48	-	-	-	-	360	100	V
10.599	49.51	PK1	37.7	-22.7	0	64.51	-	-	-	-	68.2	-3.69	167	100	H
10.6	37.26	AD1	37.7	-22.7	.3	52.56	54	-1.44	-	-	-	-	167	100	H

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



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



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 (dB/m)	Amp/Cbl/Filr/Pad (dB)	DC Corr (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
4	* 3.547	36.5	PK	33	-31.9	0	37.6	-	-	74	-36.4	-	-	0-360	202	V
5	* 4.879	33.93	PK	34.2	-29.9	0	38.23	-	-	74	-35.77	-	-	0-360	99	V
6	* 10.636	39.2	PK	37.7	-22.1	0	54.8	-	-	74	-19.2	-	-	0-360	99	H
1	1.871	32.88	PK	30.8	-33.2	0	30.48	-	-	-	-	68.2	-37.72	0-360	99	H
2	2.502	33.11	PK	32.4	-32.3	0	33.21	-	-	-	-	68.2	-34.99	0-360	99	H
3	3	31.91	PK	32.8	-32	0	32.71	-	-	-	-	68.2	-35.49	0-360	99	H

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

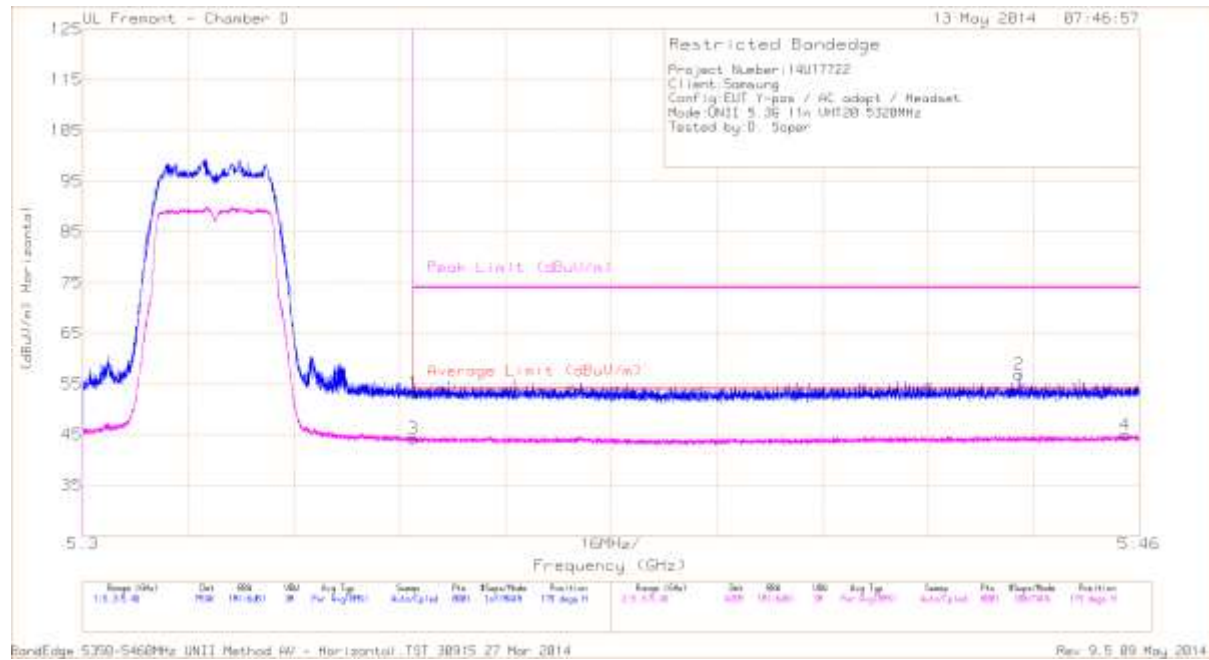
PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filr/Pad (dB)	DC Corr (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
* 10.636	49.28	PK1	37.7	-22.1	0	64.88	-	-	74	-9.12	-	-	237	104	H
* 10.636	37.43	AD1	37.7	-22.1	.3	53.33	54	-67	-	-	-	-	237	104	H

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

11.2.2. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.3 GHz BAND AUTHORIZED BANDEDGE (HIGH CHANNEL)

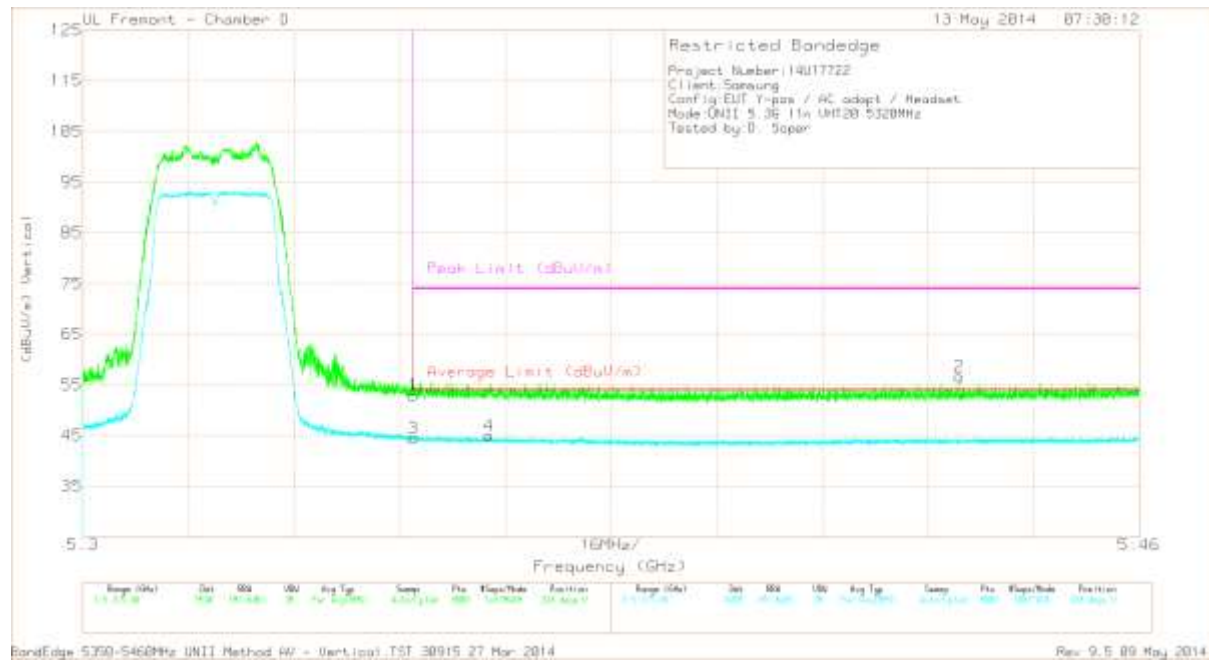


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	37.52	PK	33.8	-18.1	0	53.22	-	-	74	-20.78	179	270	H
2	* 5.442	40.96	PK	33.9	-18	0	56.86	-	-	74	-17.14	179	270	H
3	* 5.35	28.12	RMS	33.8	-18.1	.6	44.22	54	-9.78	-	-	179	270	H
4	* 5.458	28.59	RMS	33.9	-17.9	.6	44.99	54	-9.01	-	-	179	270	H

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

PK - Peak detector

RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filr/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	* 5.35	37.26	PK	33.8	-18.1	0	52.96	-	-	74	-21.04	324	303	V
2	* 5.433	40.77	PK	33.9	-18	0	56.67	-	-	74	-17.33	324	303	V
3	* 5.35	28.4	RMS	33.8	-18.1	.6	44.5	54	-9.5	-	-	324	303	V
4	* 5.362	28.95	RMS	33.8	-18.2	.6	44.95	54	-9.05	-	-	324	303	V

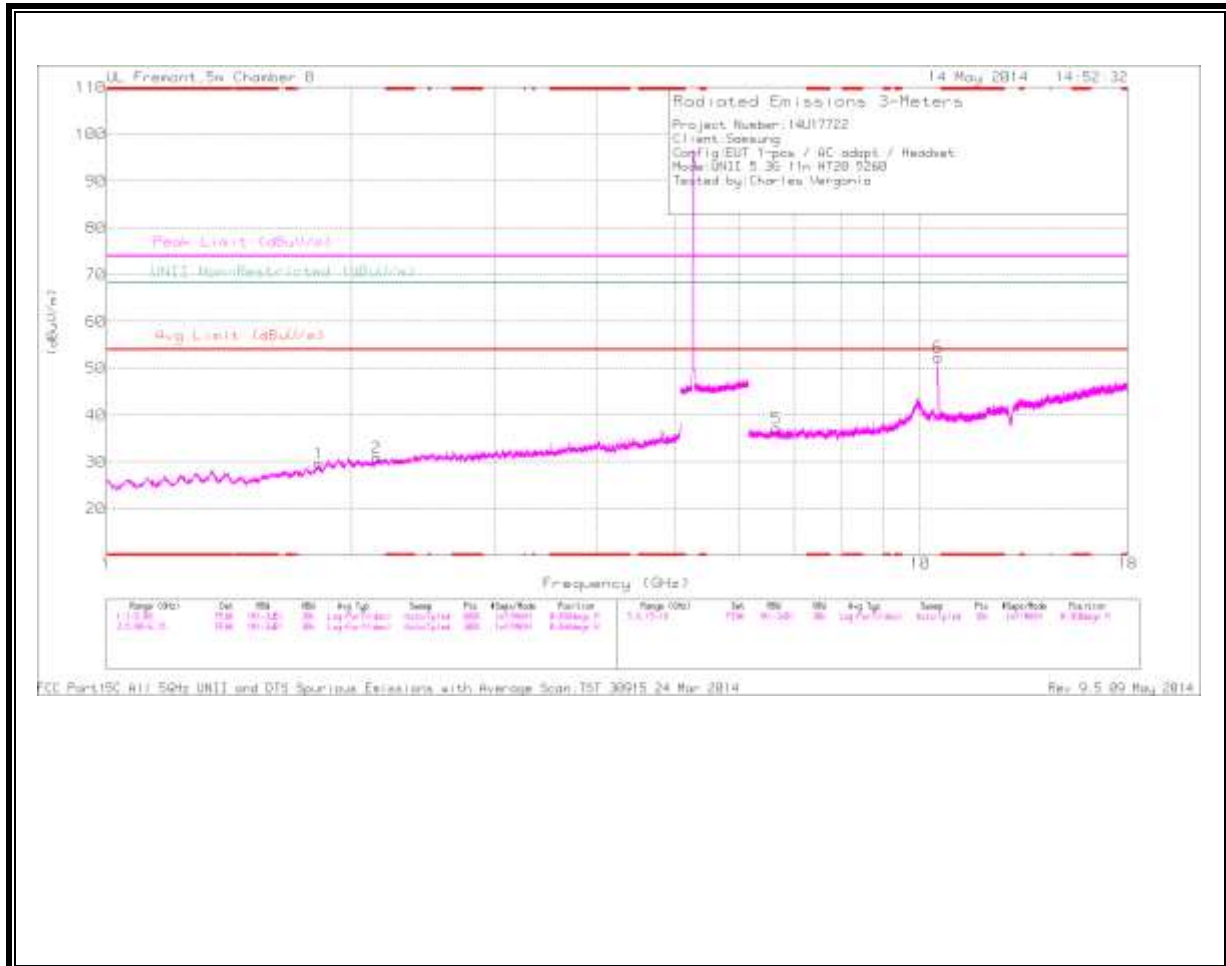
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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



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	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filr/Pad (dB)	DC Corr (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	* 3.506	36.62	PK	32.8	-31.7	0	37.72	-	-	74	-36.28	-	-	0-360	202	V
4	* 4.827	33.25	PK	34.2	-30	0	37.45	-	-	74	-36.55	-	-	0-360	99	V
1	1.826	32.97	PK	30.4	-33.7	0	29.67	-	-	-	-	68.2	-38.53	0-360	202	H
2	2.15	32.32	PK	31.3	-32.7	0	30.92	-	-	-	-	68.2	-37.28	0-360	101	H
5	6.657	30.08	PK	35.7	-28.6	0	37.18	-	-	-	-	68.2	-31.02	0-360	99	H
6	10.519	38.04	PK	37.5	-23.1	0	52.44	-	-	-	-	68.2	-15.76	0-360	99	H

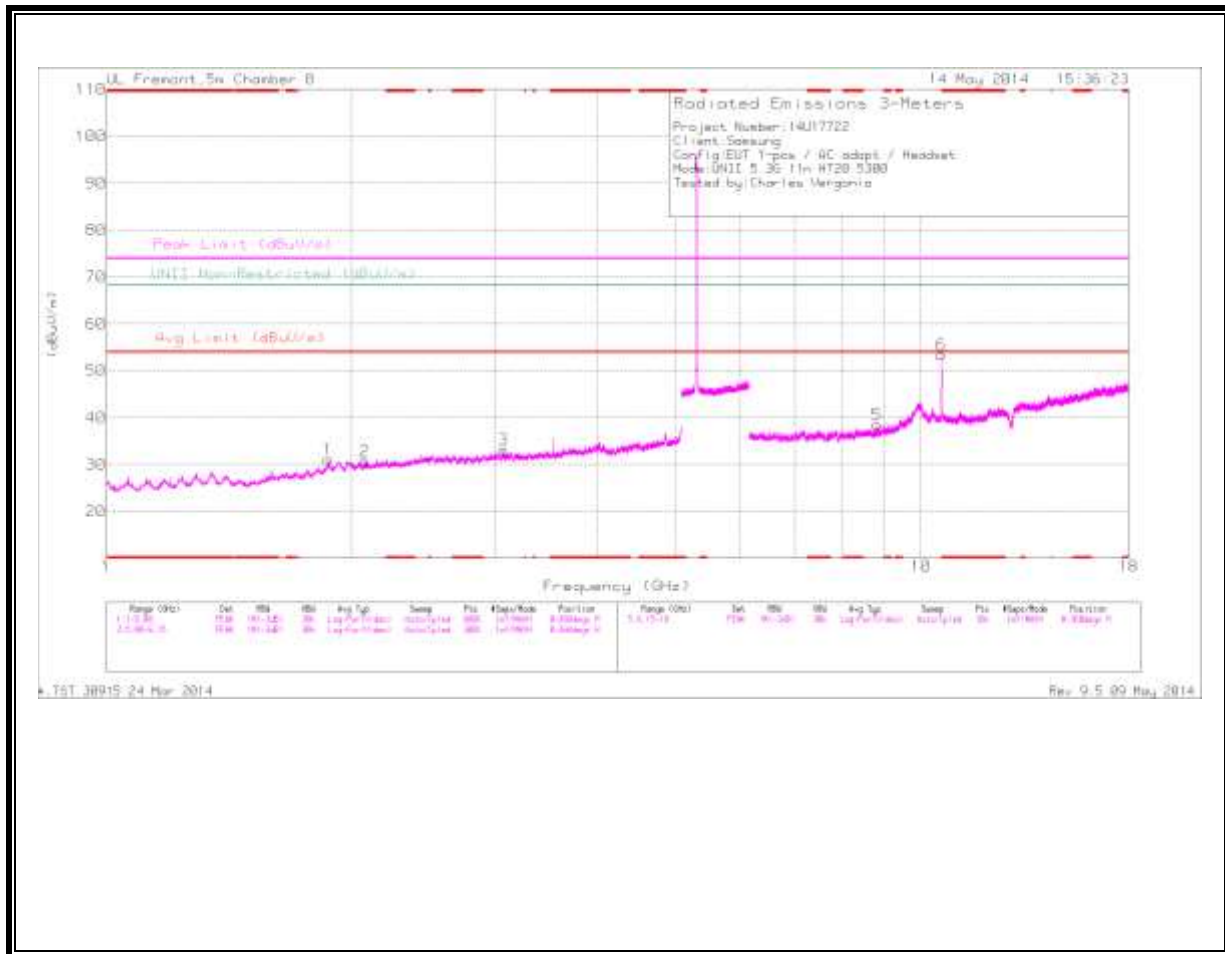
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filr/Pad (dB)	DC Corr (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
* 3.507	41.27	PK1	32.8	-31.7	0	42.37	-	-	74	-31.63	-	-	360	204	V
* 3.506	30.23	AD1	32.8	-31.7	.6	31.73	54	-22.27	-	-	-	-	360	204	V
* 4.829	40.96	PK1	34.2	-30	0	45.16	-	-	74	-28.84	-	-	360	100	V
* 4.828	29.11	AD1	34.2	-30	.6	33.71	54	-20.29	-	-	-	-	360	100	V
10.517	47.71	PK1	37.5	-23.2	0	62.01	-	-	-	-	68.2	-6.19	163	108	H
10.519	34.49	AD1	37.5	-23.1	.6	49.29	-	-	-	-	-	-	163	108	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.



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	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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 3.534	37.45	PK	32.9	-31.9	0	38.45	-	-	74	-35.55	-	-	0-360	202	V
1	1.871	33.53	PK	30.8	-33.2	0	31.13	-	-	-	-	68.2	-37.07	0-360	202	H
2	2.075	33.2	PK	31.3	-33.8	0	30.7	-	-	-	-	68.2	-37.5	0-360	202	H
3	3.071	32.5	PK	32.8	-32.1	0	33.2	-	-	-	-	68.2	-35	0-360	99	H
5	8.825	27.97	PK	36	-25.5	0	38.47	-	-	-	-	68.2	-29.73	0-360	99	H
6	10.599	38.49	PK	37.7	-22.8	0	53.39	-	-	-	-	68.2	-14.81	0-360	99	H

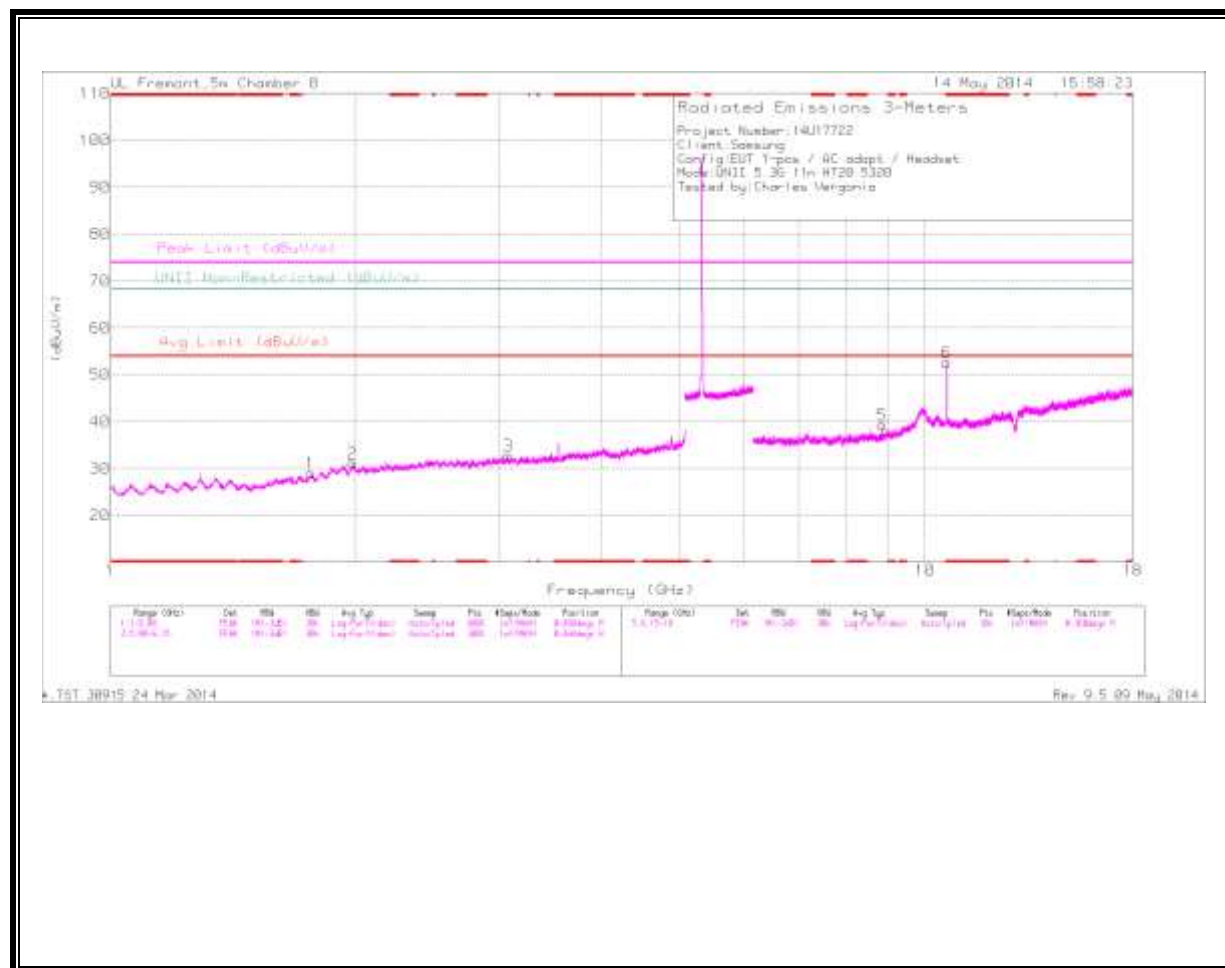
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

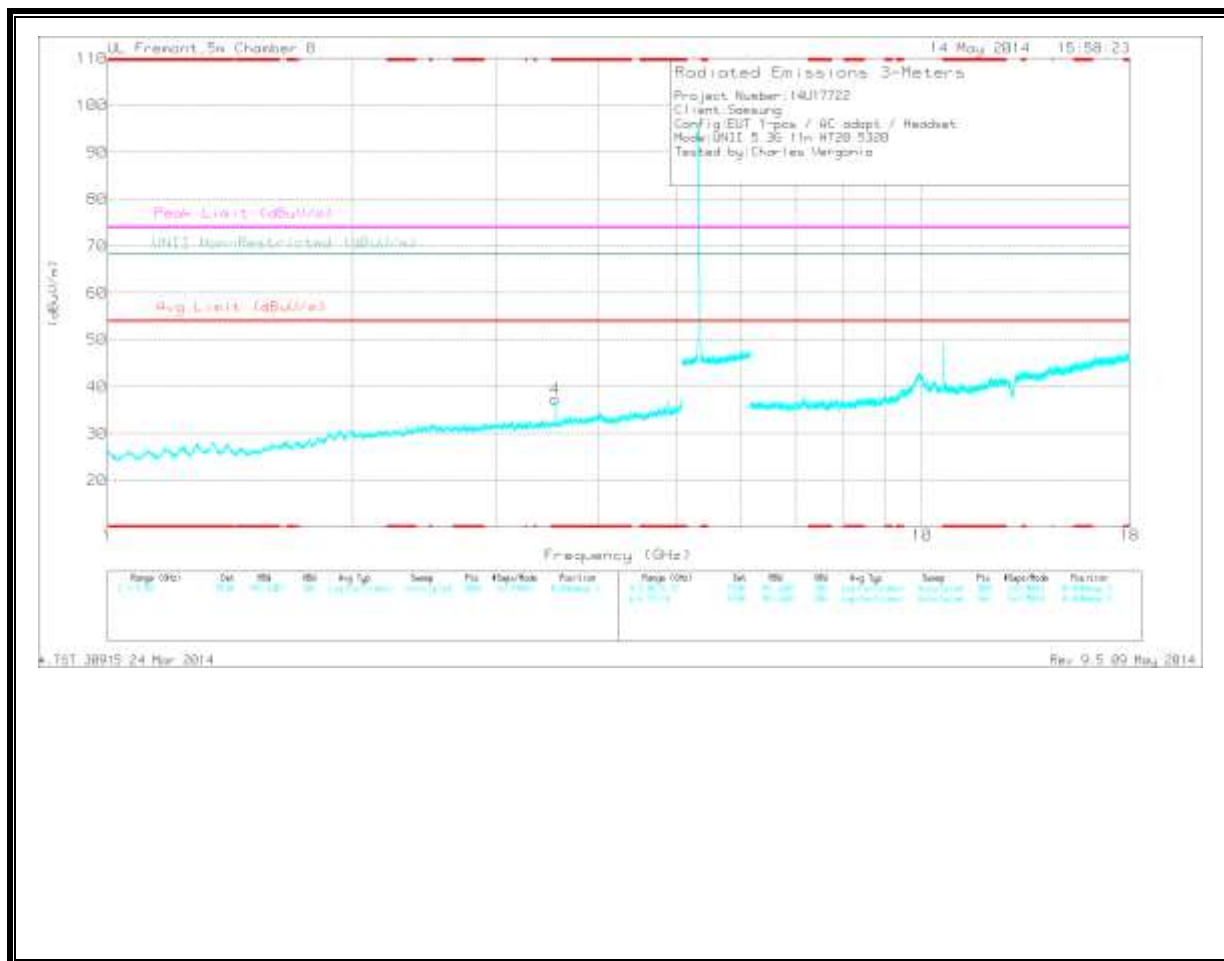
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.533	41.48	PK1	32.9	-31.9	0	42.48	-	-	74	-31.52	-	-	1	204	V
* 3.534	30	AD1	32.9	-31.9	.6	31.4	54	-22.6	-	-	-	-	1	204	V
10.598	48.25	PK1	37.7	-22.8	0	63.15	-	-	-	-	68.2	-5.05	167	100	H
10.6	35.66	AD1	37.7	-22.7	.6	51.06	-	-	-	-	-	-	167	100	H

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



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



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 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 3.547	36.23	PK	33	-31.9	0	37.33	-	-	74	-36.67	-	-	0-360	202	V
6	* 10.639	37.11	PK	37.7	-22.2	0	52.61	-	-	74	-21.39	-	-	0-360	99	H
1	1.762	33.37	PK	29.7	-34	0	29.07	-	-	-	-	68.2	-39.13	0-360	99	H
2	1.983	32.73	PK	31.3	-32.9	0	31.13	-	-	-	-	68.2	-37.07	0-360	201	H
3	3.079	31.96	PK	32.9	-32.1	0	32.76	-	-	-	-	68.2	-35.44	0-360	99	H
5	8.858	28.52	PK	36	-25.3	0	39.22	-	-	-	-	68.2	-28.98	0-360	99	H

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

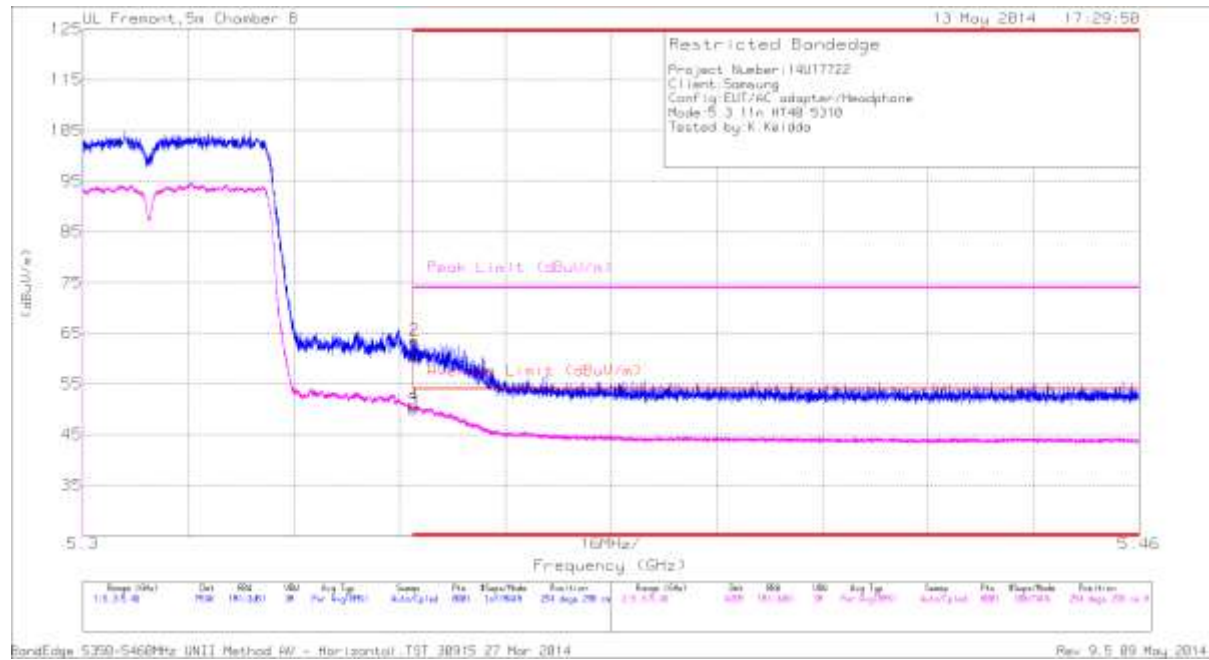
PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.548	41.79	PK1	33	-31.9	0	42.89	-	-	74	-31.11	-	-	1	204	V
* 3.546	30	AD1	33	-31.9	.6	31.5	54	-22.5	-	-	-	-	1	204	V
* 10.637	45.83	PK1	37.7	-22.1	0	61.43	-	-	74	-12.57	-	-	81	118	H
* 10.639	32.98	AD1	37.7	-22.2	.6	48.88	54	-5.12	-	-	-	-	81	118	H

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

11.2.4. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.3 GHz BAND AUTHORIZED BANDEDGE (HIGH CHANNEL)

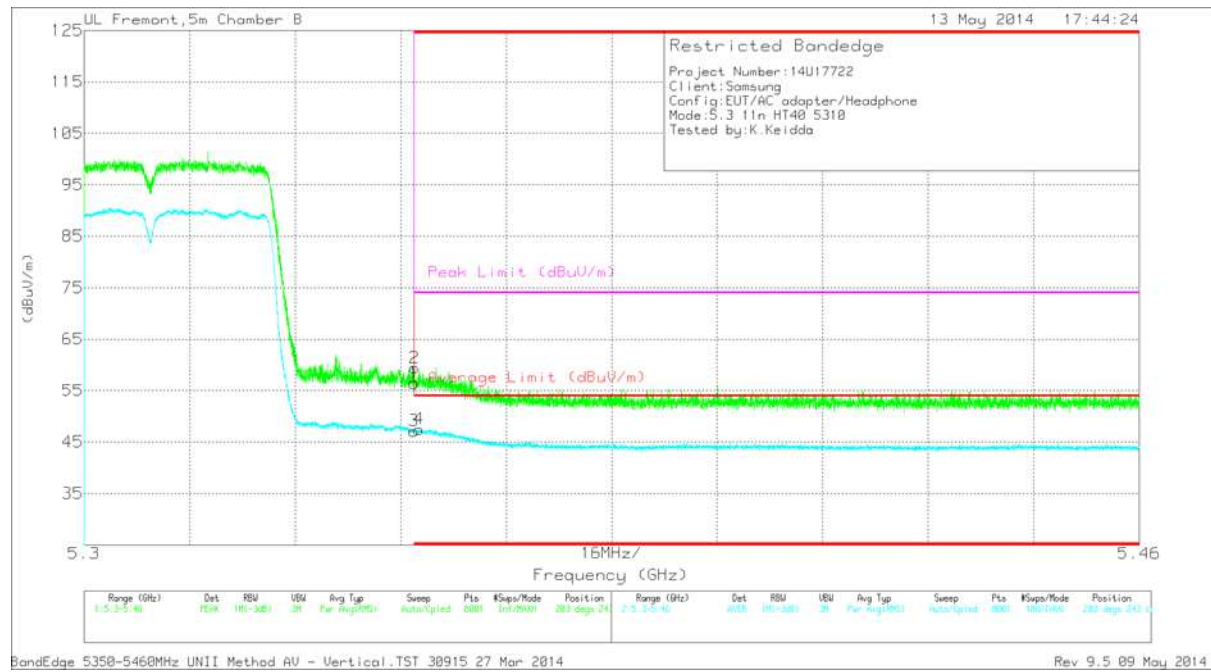


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	45.77	PK	34.5	-19.9	0	60.37	-	-	74	-13.63	254	298	H
2	* 5.35	48.97	PK	34.5	-19.9	0	63.57	-	-	74	-10.43	254	298	H
3	* 5.35	35.09	RMS	34.5	-19.9	1	50.69	54	-3.31	-	-	254	298	H
4	* 5.35	35.9	RMS	34.5	-19.9	1	51.5	54	-2.5	-	-	254	298	H

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

PK - Peak detector

RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitter/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	* 5.35	41.86	PK	34.5	-19.9	0	56.46	-	-	74	-17.54	203	243	V
2	* 5.35	44.83	PK	34.5	-19.9	0	59.43	-	-	74	-14.57	203	243	V
3	* 5.35	32.34	RMS	34.5	-19.9	1	47.94	54	-6.06	-	-	203	243	V
4	* 5.351	32.81	RMS	34.5	-20	1	48.31	54	-5.69	-	-	203	243	V

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

PK - Peak detector

RMS - RMS detection

11.2.5. HARMONICS AND SPURIOUS EMISSIONS

LOW 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.



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	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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 3.513	36.31	PK	32.8	-31.8	0	37.31	-	-	74	-36.69	-	-	0-360	202	V
1	1.877	33.61	PK	30.9	-33.1	0	31.41	-	-	-	-	68.2	-36.79	0-360	99	H
5	9.92	29.94	PK	37	-24	0	42.94	-	-	-	-	68.2	-25.26	0-360	202	V
3	9.954	29.84	PK	37	-24.2	0	42.64	-	-	-	-	68.2	-25.56	0-360	99	H
4	10.548	36.18	PK	37.6	-23	0	50.78	-	-	-	-	68.2	-17.42	0-360	99	H
6	10.551	33.84	PK	37.6	-23	0	48.44	-	-	-	-	68.2	-19.76	0-360	202	V

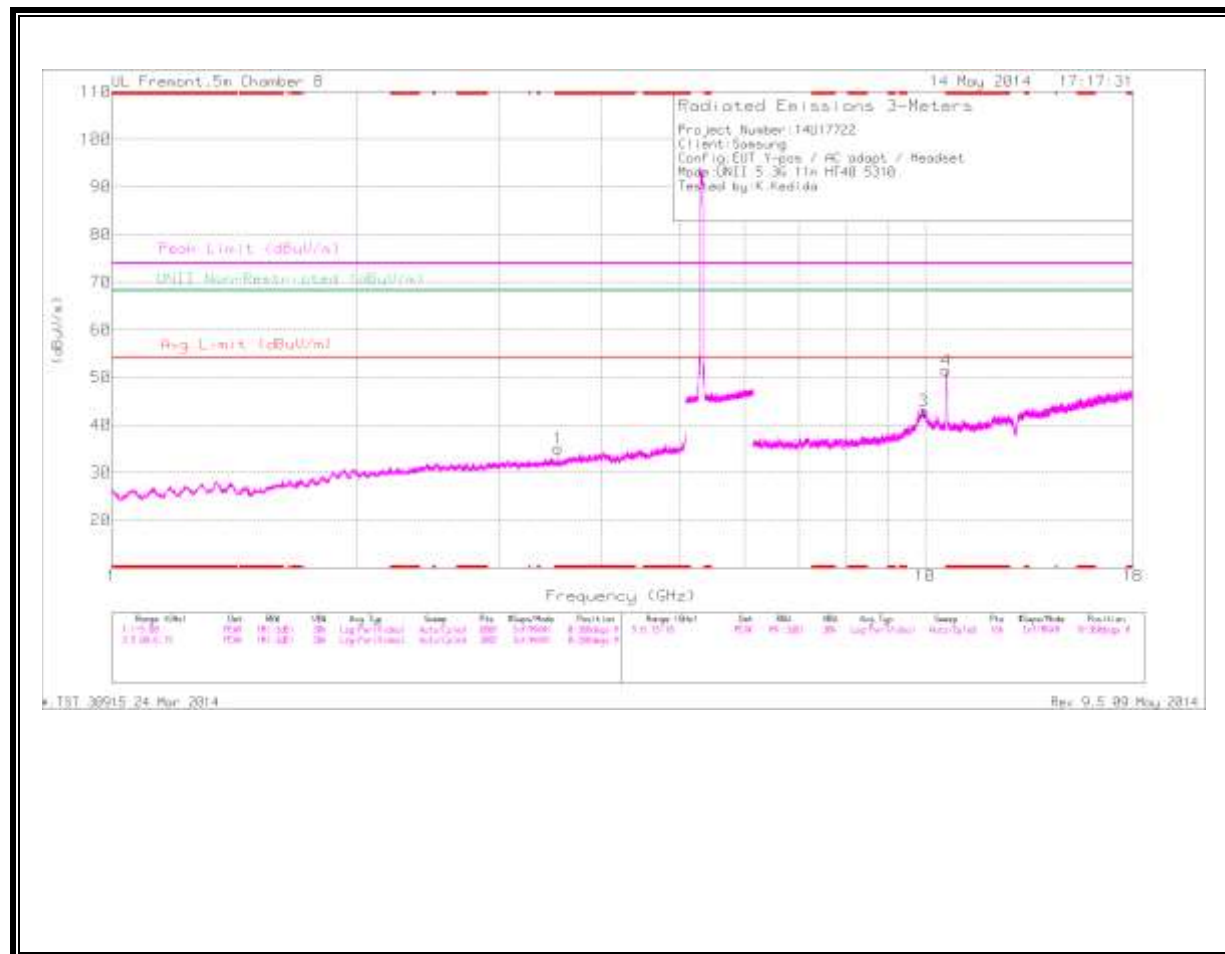
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

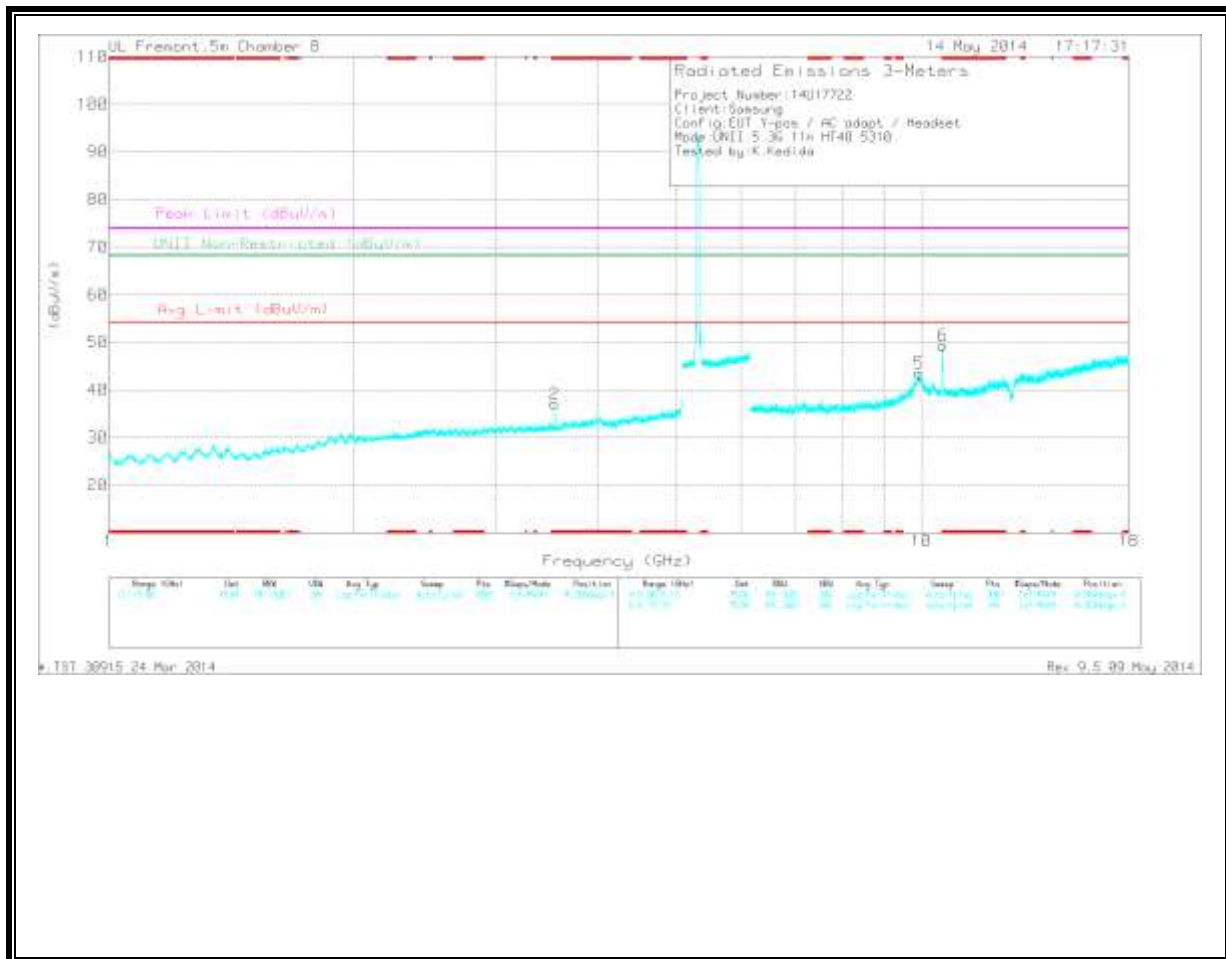
Radiated Emissions

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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.513	44.25	PK1	32.8	-31.8	0	45.25	-	-	74	-28.75	-	-	140	151	V
* 3.513	35.94	AD1	32.8	-31.8	1	37.34	54	-16.66	-	-	-	-	140	151	V
1.878	42.6	PK1	30.9	-33.1	0	40.4	-	-	-	-	68.2	-27.8	1	100	H
9.955	39.83	PK1	37	-24.2	0	52.63	-	-	-	-	68.2	-15.57	238	226	H
9.956	26.93	AD1	37	-24.1	1	40.23	-	-	-	-	-	-	238	226	H
10.538	45.6	PK1	37.5	-22.9	0	60.2	-	-	-	-	68.2	-8	167	211	V
10.539	32.79	AD1	37.5	-22.9	1	47.79	-	-	-	-	-	-	167	211	V
10.541	32.9	AD1	37.5	-22.9	1	47.9	-	-	-	-	-	-	175	136	H
10.551	44.63	PK1	37.6	-23	0	59.23	-	-	-	-	68.2	-8.97	175	136	H

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



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



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	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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.54	34.15	PK	32.9	-32	0	35.05	-	-	74	-38.95	-	-	0-360	202	H
2	* 3.54	36.25	PK	32.9	-32	0	37.15	-	-	74	-36.85	-	-	0-360	202	V
4	* 10.621	35.98	PK	37.7	-22.2	0	51.48	-	-	74	-22.52	-	-	0-360	99	H
6	* 10.622	33.84	PK	37.7	-22.2	0	49.34	-	-	74	-24.66	-	-	0-360	99	V
5	9.933	30.45	PK	37	-23.9	0	43.55	-	-	-	-	68.2	-24.65	0-360	99	V
3	9.96	30.06	PK	37	-24.1	0	42.96	-	-	-	-	68.2	-25.24	0-360	201	H

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

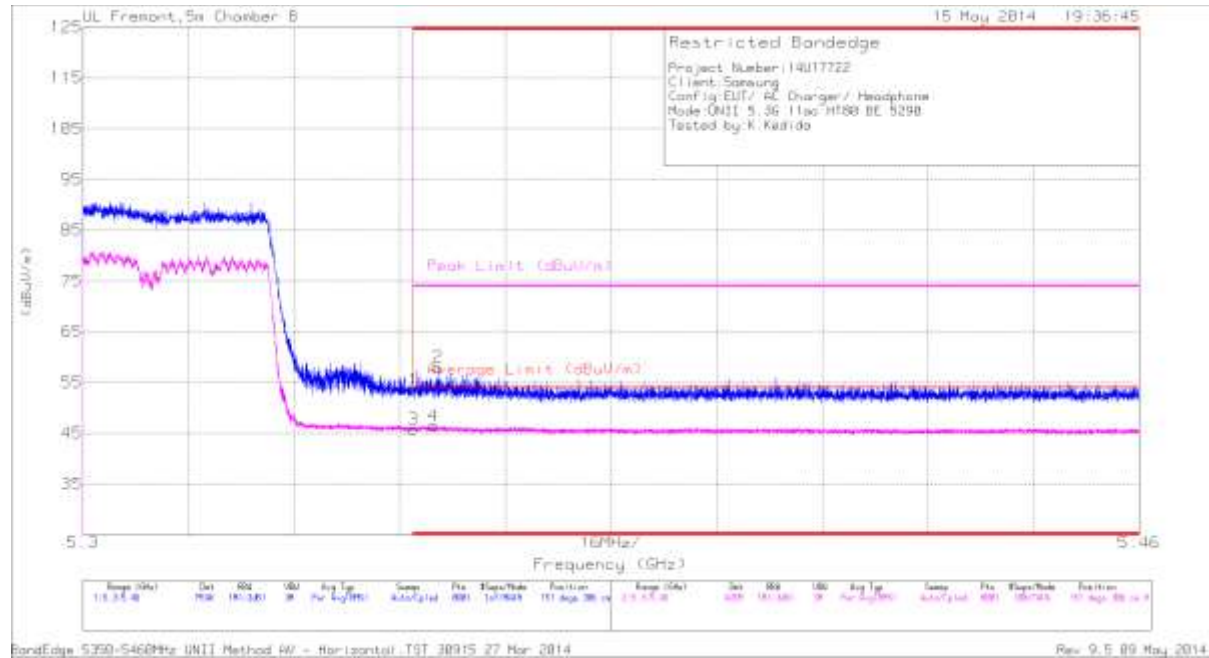
PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	DC Corr (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
* 3.54	43.5	PK1	32.9	-32	0	44.4	-	-	74	-29.6	-	-	151	234	H
* 3.54	33.6	AD1	32.9	-32	1	34.9	54	-19.1	-	-	-	-	151	234	H
* 3.54	43.74	PK1	32.9	-32	0	44.64	-	-	74	-29.36	-	-	137	202	V
* 3.54	35.47	AD1	32.9	-32	1	36.77	54	-17.23	-	-	-	-	137	202	V
* 10.619	44.35	PK1	37.7	-22.2	0	59.85	-	-	74	-14.15	-	-	136	121	H
* 10.619	32.08	AD1	37.7	-22.2	1	47.98	54	-6.02	-	-	-	-	136	121	H
* 10.621	42.77	PK1	37.7	-22.2	0	58.27	-	-	74	-15.73	-	-	342	324	V
* 10.621	30.13	AD1	37.7	-22.2	1	46.03	54	-7.97	-	-	-	-	342	324	V

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

11.2.6. TX ABOVE 1 GHz 802.11ac HT80 MODE IN THE 5.3 GHz BAND AUTHORIZED BANDEDGE (HIGH CHANNEL)

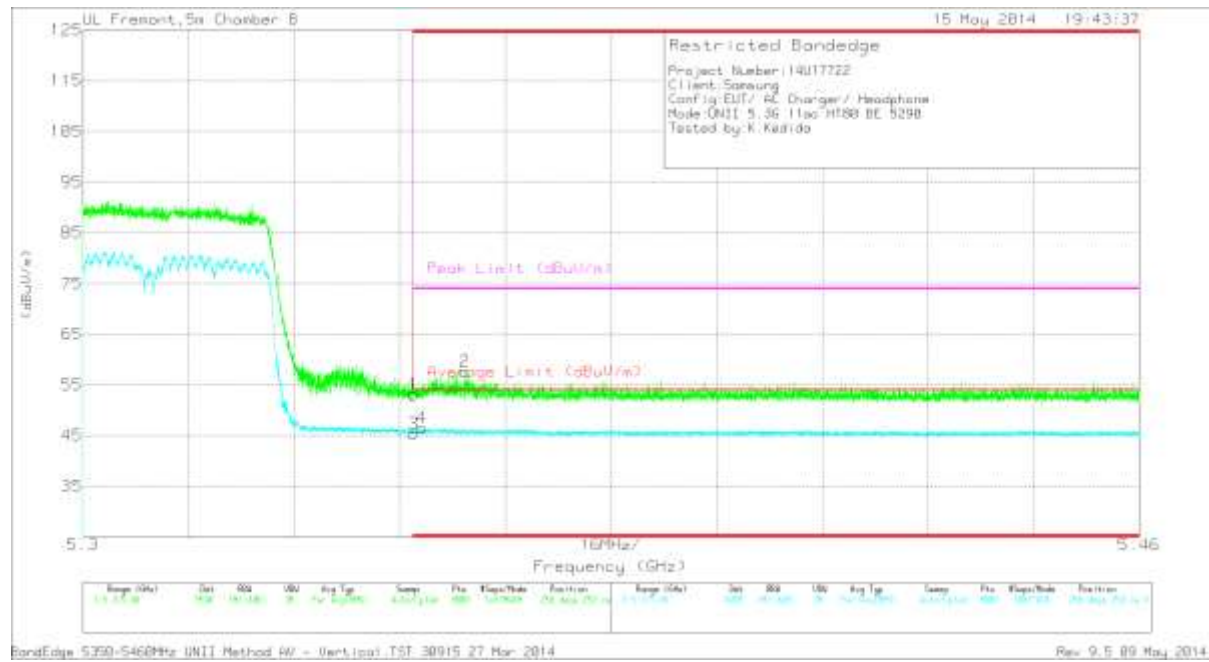


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	38.97	PK	34.5	-19.9	0	53.57	-	-	74	-20.43	151	306	H
3	* 5.35	29.46	RMS	34.5	-19.9	4	48.06	54	-5.94	-	-	151	306	H
4	* 5.353	30.13	RMS	34.5	-20	4	48.63	54	-5.37	-	-	151	306	H
2	* 5.354	43.52	PK	34.5	-20	0	58.02	-	-	74	-15.98	151	306	H

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

PK - Peak detector

RMS - RMS detection



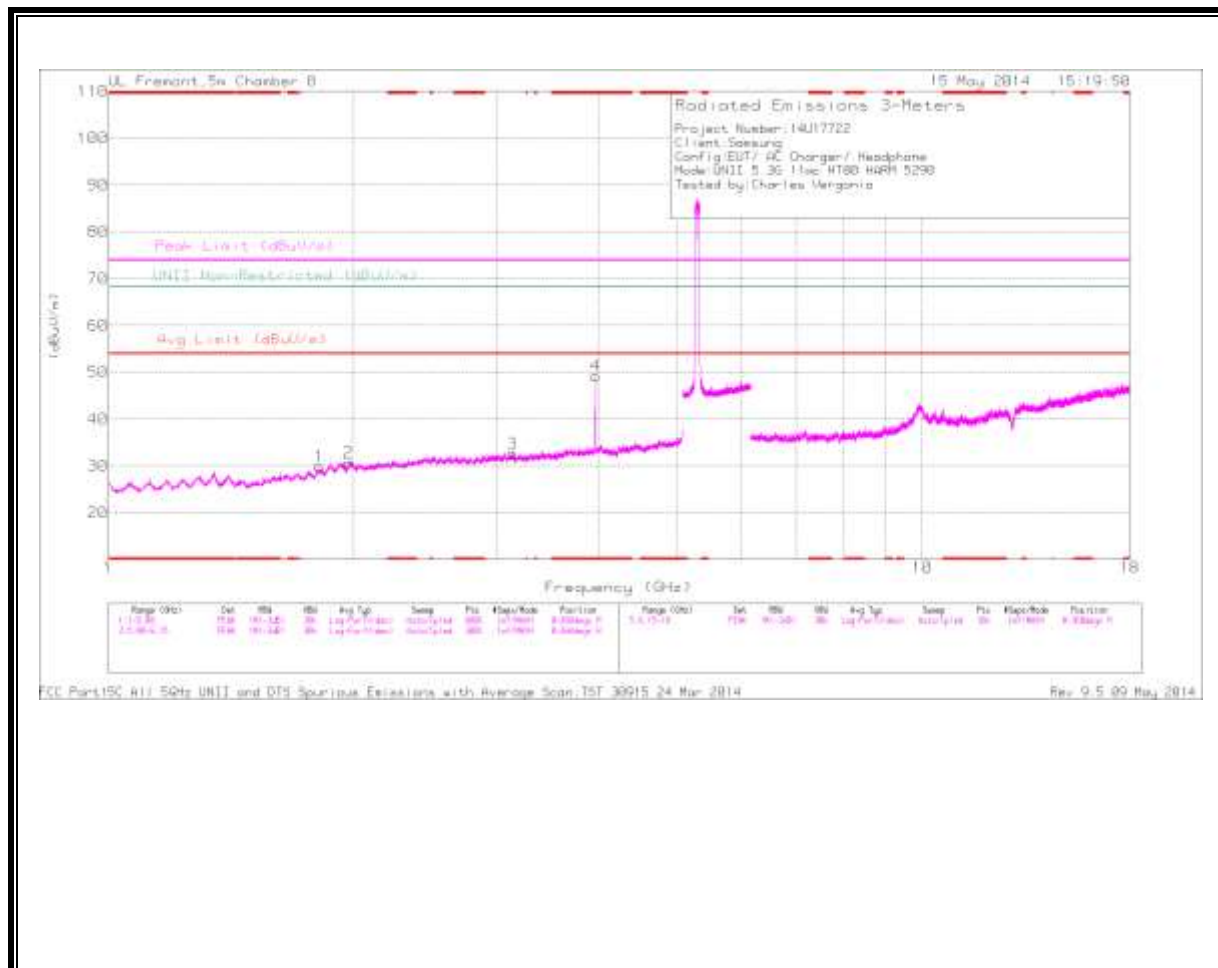
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

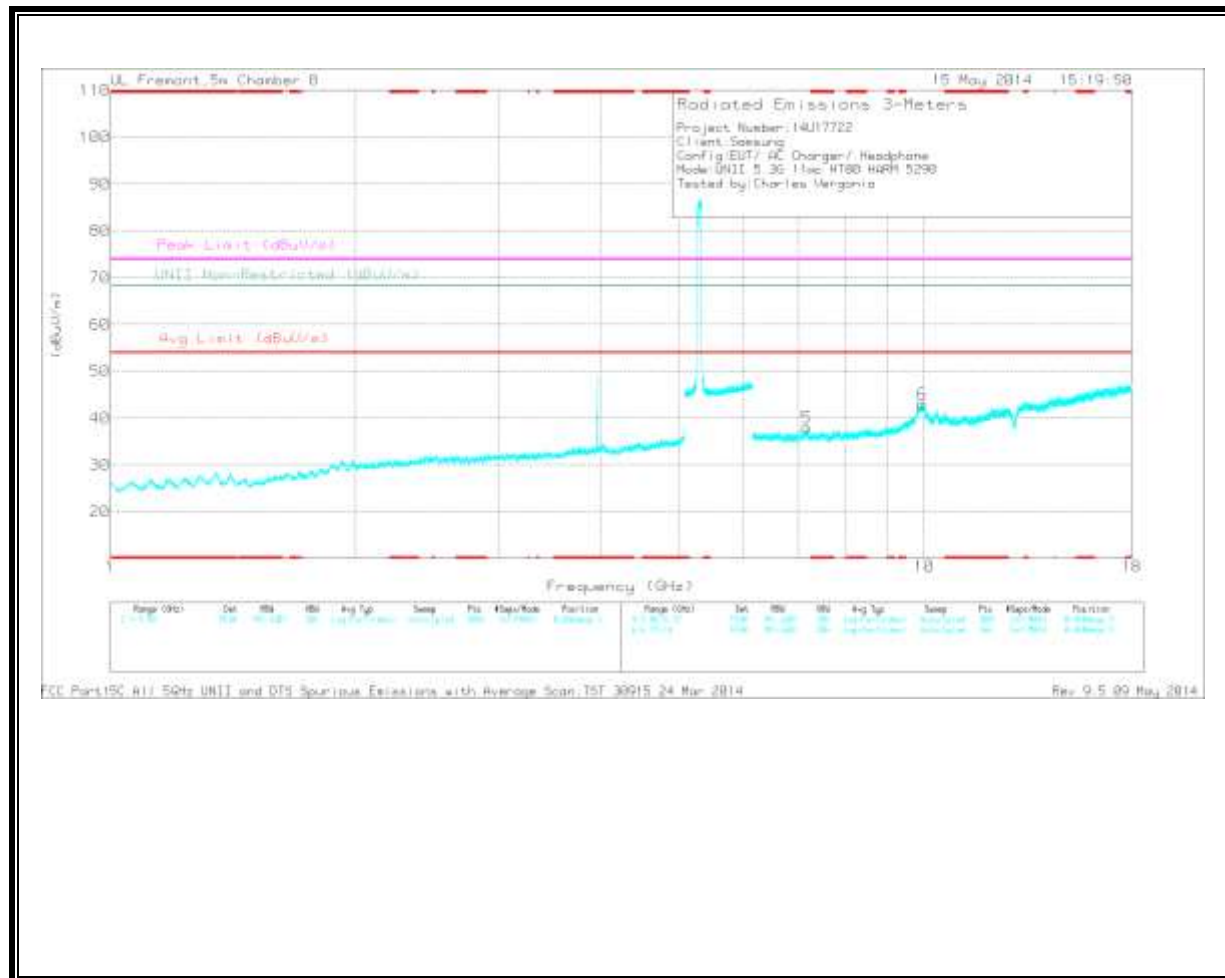
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 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.

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (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
4	* 3.968	45.89	PK	33.7	-30.3	0	49.29	-	-	74	-24.71	-	-	0-360	99	H
1	1.816	33.53	PK	30.3	-33.9	0	29.93	-	-	-	-	68.2	-38.27	0-360	201	H
2	1.97	32.14	PK	31.3	-32.8	0	30.64	-	-	-	-	68.2	-37.56	0-360	201	H
3	3.137	31.48	PK	32.8	-31.6	0	32.68	-	-	-	-	68.2	-35.52	0-360	99	H
5	7.167	29.36	PK	35.6	-27	0	37.96	-	-	-	-	68.2	-30.24	0-360	99	V
6	9.937	29.93	PK	37	-23.9	0	43.03	-	-	-	-	68.2	-25.17	0-360	202	V

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

PK - Peak detector

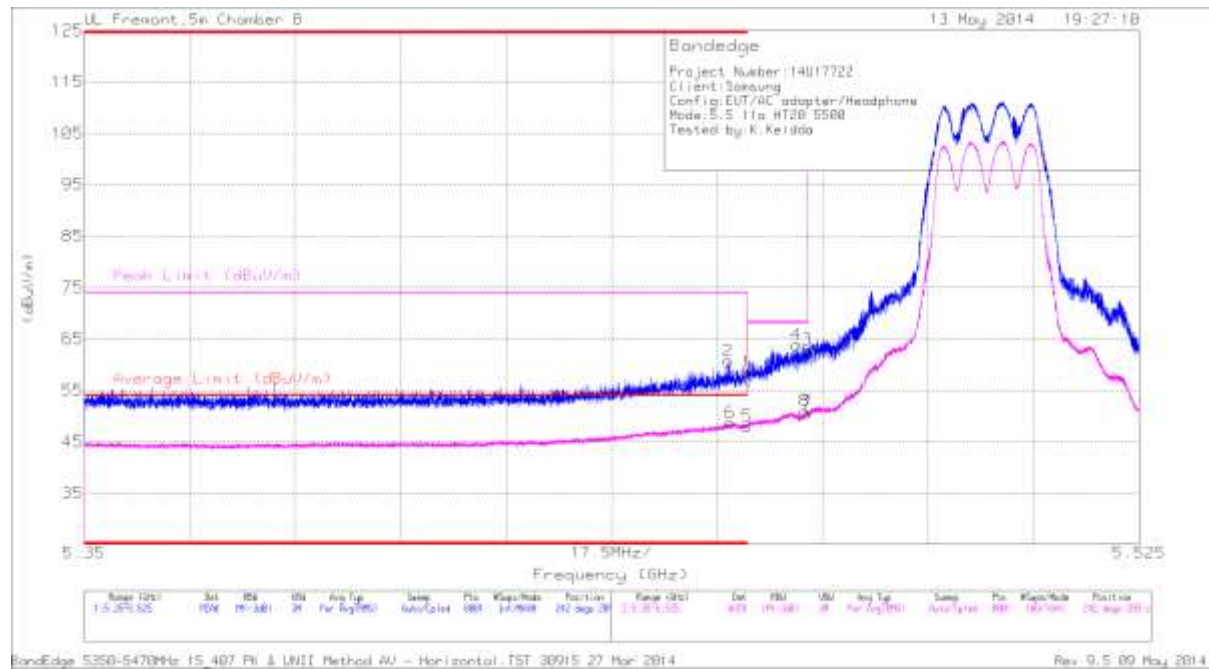
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (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
* 3.967	49.01	PK1	33.7	-30.3	0	52.41	-	-	74	-21.59	-	-	289	100	H
* 3.967	42.86	AD1	33.7	-30.3	4	50.16	54	-3.84	-	-	-	-	289	100	H
9.936	27.61	AD1	37	-23.9	4	44.61	-	-	-	-	-	-	1	204	V
9.937	39.35	PK1	37	-24	0	52.35	-	-	-	-	68.2	-15.85	1	204	V

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

11.3. 5.5-5.6 GHz

11.3.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.5 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

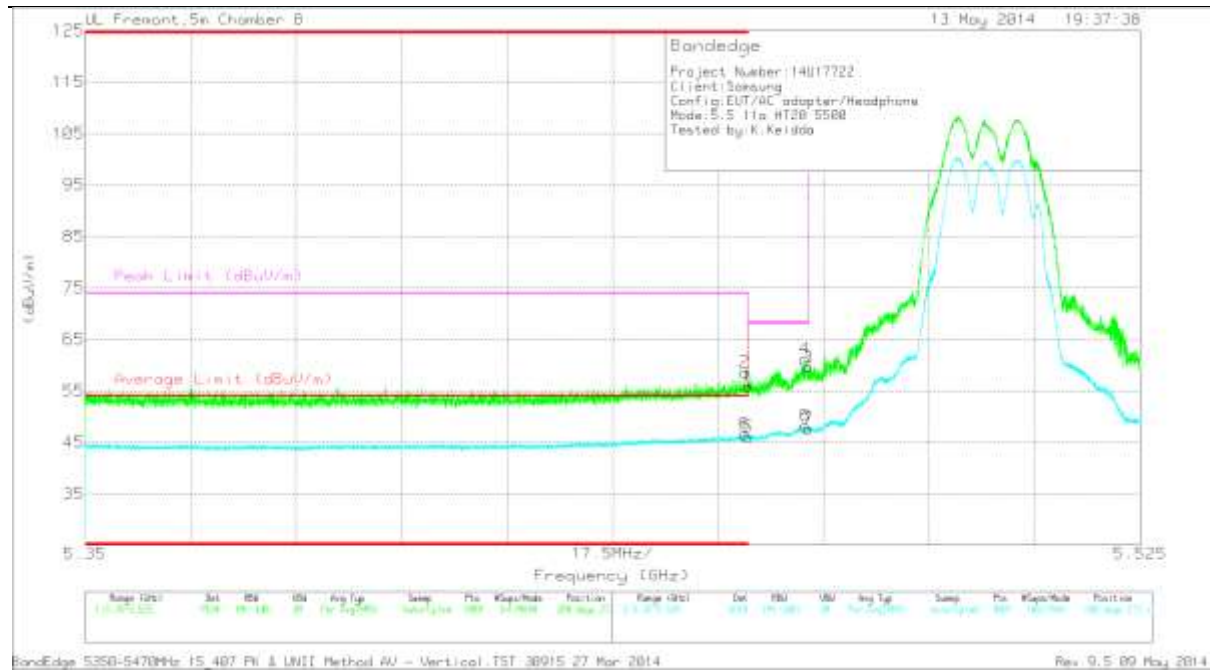


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.457	46.26	PK	34.5	-20.1	0	60.66	-	-	74	-13.34	242	209	H
6	* 5.457	33.98	RMS	34.5	-20.1	.3	48.68	54	-5.32	-	-	242	209	H
1	* 5.46	44.08	PK	34.5	-20.1	0	58.48	-	-	74	-15.52	242	209	H
5	* 5.46	33.3	RMS	34.5	-20.1	.3	48	54	-6	-	-	242	209	H
4	5.468	49.35	PK	34.5	-20	0	63.85	-	-	68.2	-4.35	242	209	H
3	5.47	48.45	PK	34.5	-20	0	62.95	-	-	68.2	-5.25	242	209	H
7	5.47	35.81	RMS	34.5	-20	.3	50.61	-	-	-	-	242	209	H
8	5.47	36.2	RMS	34.5	-20	.3	51	-	-	-	-	242	209	H

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

PK - Peak detector

RMS - RMS detection



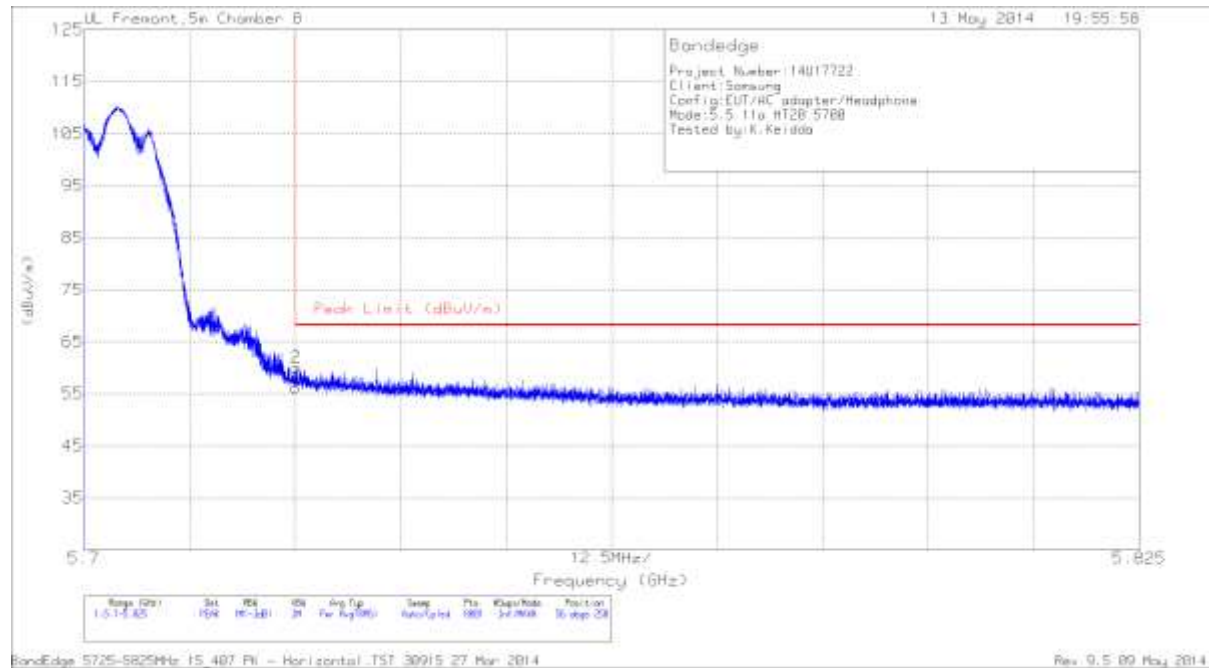
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/CB/Flt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.459	44.28	PK	34.5	-20.1	0	58.68	-	-	74	-15.32	200	273	V
6	* 5.459	31.91	RMS	34.5	-20.1	.3	46.61	54	-7.39	-	-	200	273	V
1	* 5.46	41.42	PK	34.5	-20.1	0	55.82	-	-	74	-18.18	200	273	V
5	* 5.46	31.29	RMS	34.5	-20.1	.3	45.99	54	-8.01	-	-	200	273	V
4	5.469	46.66	PK	34.5	-20	0	61.16	-	-	68.2	-7.04	200	273	V
8	5.469	33.4	RMS	34.5	-20	.3	48.2	-	-	-	-	200	273	V
3	5.47	45.1	PK	34.5	-20	0	59.6	-	-	68.2	-8.6	200	273	V
7	5.47	32.85	RMS	34.5	-20	.3	47.65	-	-	-	-	200	273	V

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

PK - Peak detector

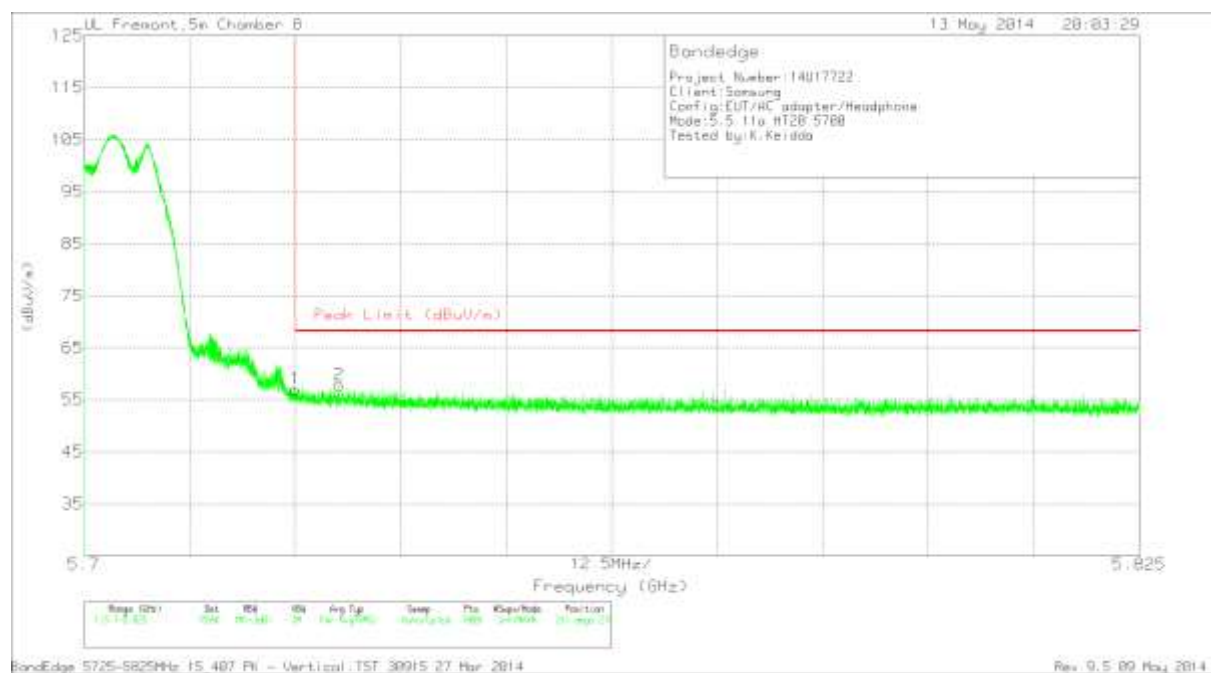
RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	41.51	PK	34.6	-19.9	56.21	68.2	-11.99	56	250	H
2	5.725	45.31	PK	34.6	-19.9	60.01	68.2	-8.19	56	250	H

PK - Peak detector

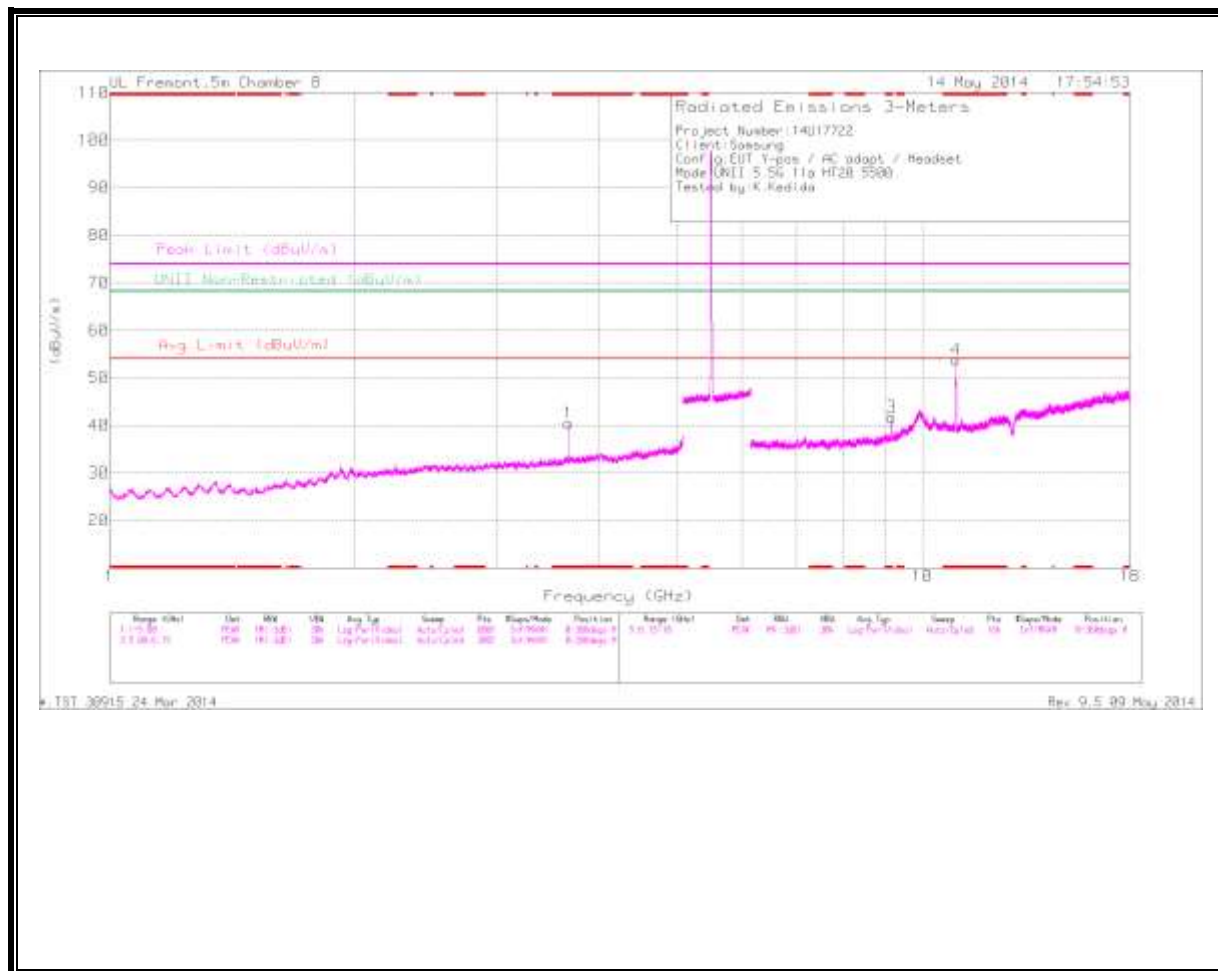


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT345 (dB/m)	Amp/Cbl/Flt r/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	42.41	PK	34.6	-19.9	57.11	68.2	-11.09	211	215	V
2	5.73	43.05	PK	34.6	-19.8	57.85	68.2	-10.35	211	215	V

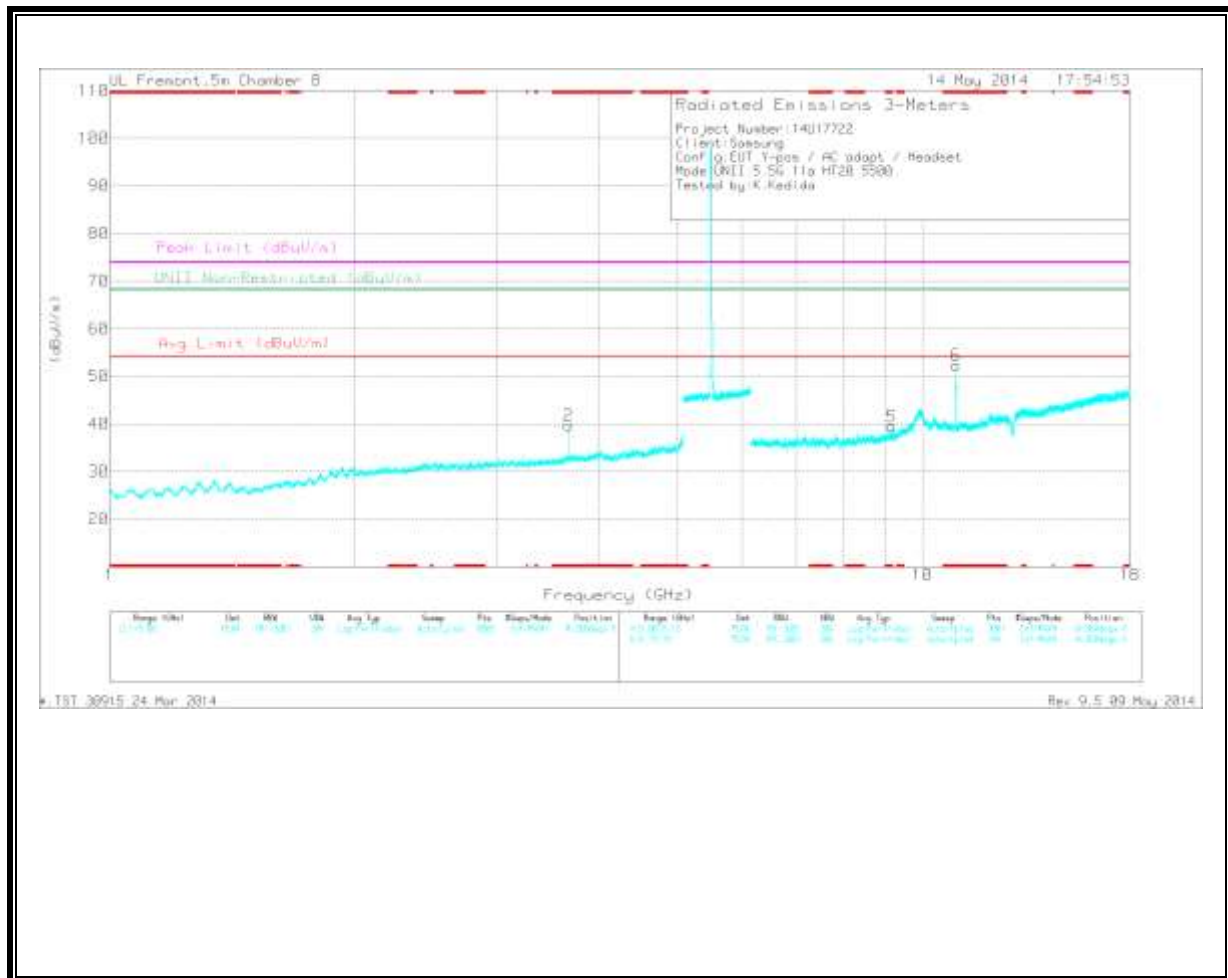
PK - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW 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.



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

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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.667	38.53	PK	33.3	-31.3	0	40.53	-	-	74	-33.47	-	-	0-360	201	H
2	* 3.667	37.73	PK	33.3	-31.3	0	39.73	-	-	74	-34.27	-	-	0-360	202	V
3	* 9.169	30.07	PK	36.3	-24.6	0	41.77	-	-	74	-32.23	-	-	0-360	99	H
4	* 10.999	38.4	PK	37.8	-22.4	0	53.8	-	-	74	-20.2	-	-	0-360	99	H
5	* 9.162	27.75	PK	36.3	-24.6	0	39.45	-	-	74	-34.55	-	-	0-360	202	V
6	* 11.004	36.97	PK	37.8	-22.4	0	52.37	-	-	74	-21.63	-	-	0-360	202	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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.667	44.48	PK1	33.3	-31.3	0	46.48	-	-	74	-27.52	-	-	145	200	H
* 3.667	37.4	AD1	33.3	-31.3	.4	39.8	54	-14.2	-	-	-	-	145	200	H
* 3.667	44.33	PK1	33.3	-31.3	0	46.33	-	-	74	-27.67	-	-	70	172	V
* 3.667	36.57	AD1	33.3	-31.3	.4	38.97	54	-15.03	-	-	-	-	70	172	V
* 9.169	40.18	PK1	36.3	-24.6	0	51.88	-	-	74	-22.12	-	-	197	102	H
* 9.169	28.7	AD1	36.3	-24.6	.4	40.8	54	-13.2	-	-	-	-	197	102	H
* 10.998	48.78	PK1	37.8	-22.4	0	64.18	-	-	74	-9.82	-	-	78	116	H
* 10.999	36.03	AD1	37.8	-22.4	.4	51.83	54	-2.17	-	-	-	-	78	116	H
* 10.998	48.18	PK1	37.8	-22.4	0	63.58	-	-	74	-10.42	-	-	344	269	V
* 11.002	36.19	AD1	37.8	-22.4	.4	51.99	54	-2.01	-	-	-	-	344	269	V

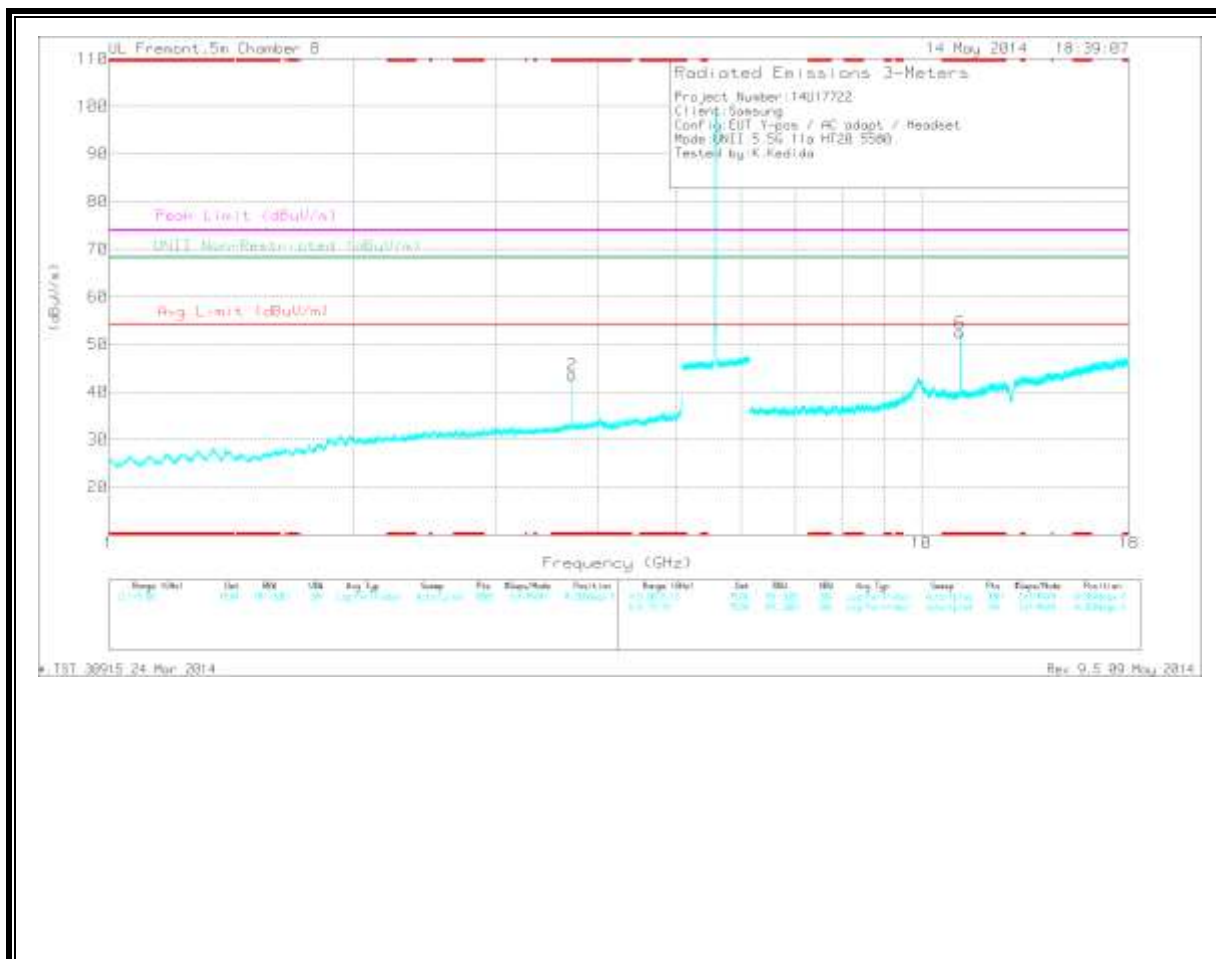
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average



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



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	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (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
1	* 3.72	39.61	PK	33.4	-31.2	0	41.81	-	-	74	-32.19	-	-	0-360	202	H
2	* 3.72	41.42	PK	33.4	-31.2	0	43.62	-	-	74	-30.38	-	-	0-360	202	V
3	* 9.303	30.14	PK	36.4	-25	0	41.54	-	-	74	-32.46	-	-	0-360	99	H
5	* 11.158	37.2	PK	37.8	-22.2	0	52.8	-	-	74	-21.2	-	-	0-360	202	H
6	* 11.163	36.81	PK	37.9	-22.2	0	52.51	-	-	74	-21.49	-	-	0-360	202	V
4	9.925	29.8	PK	37	-23.9	0	42.9	-	-	-	-	68.2	-25.3	0-360	202	H

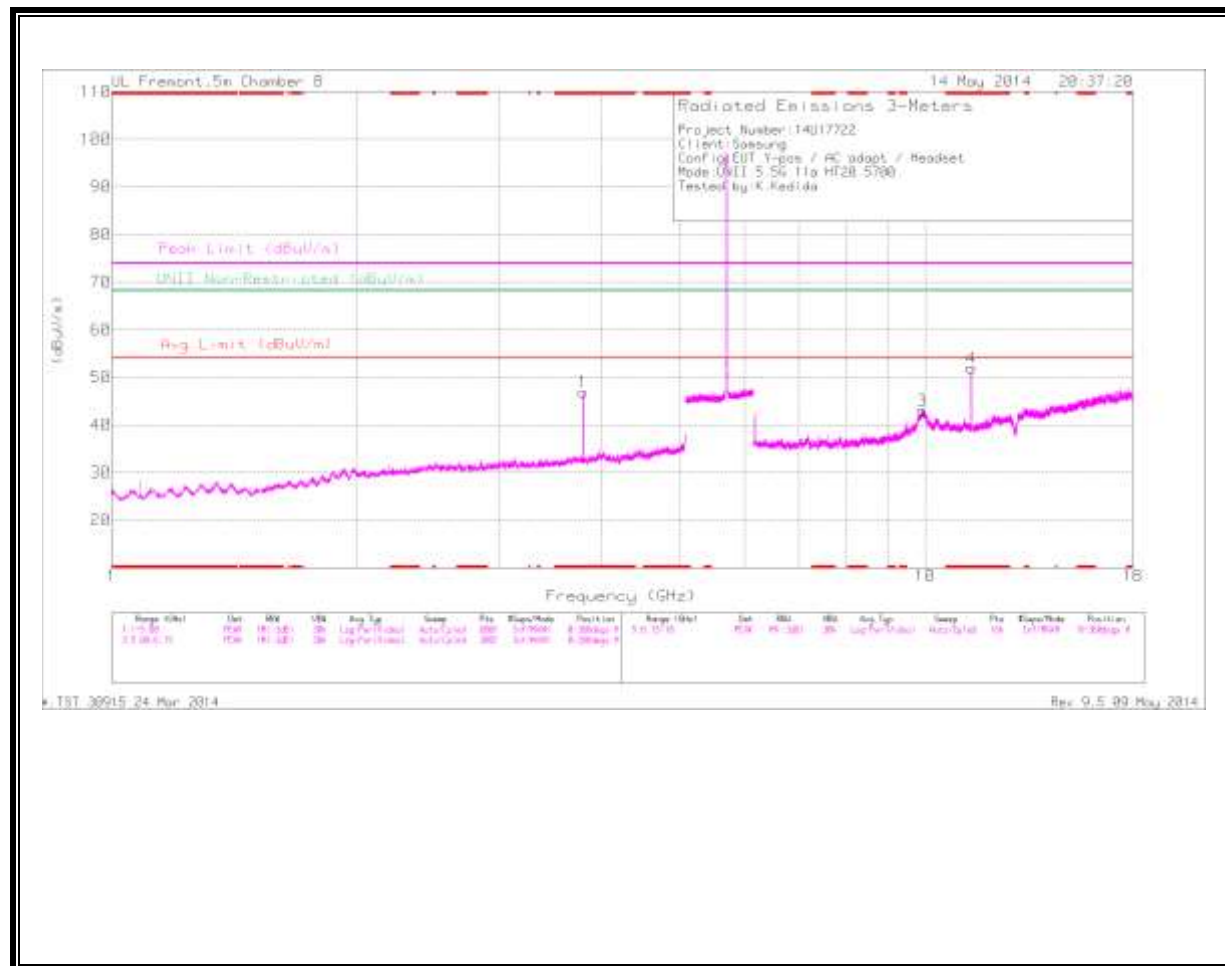
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

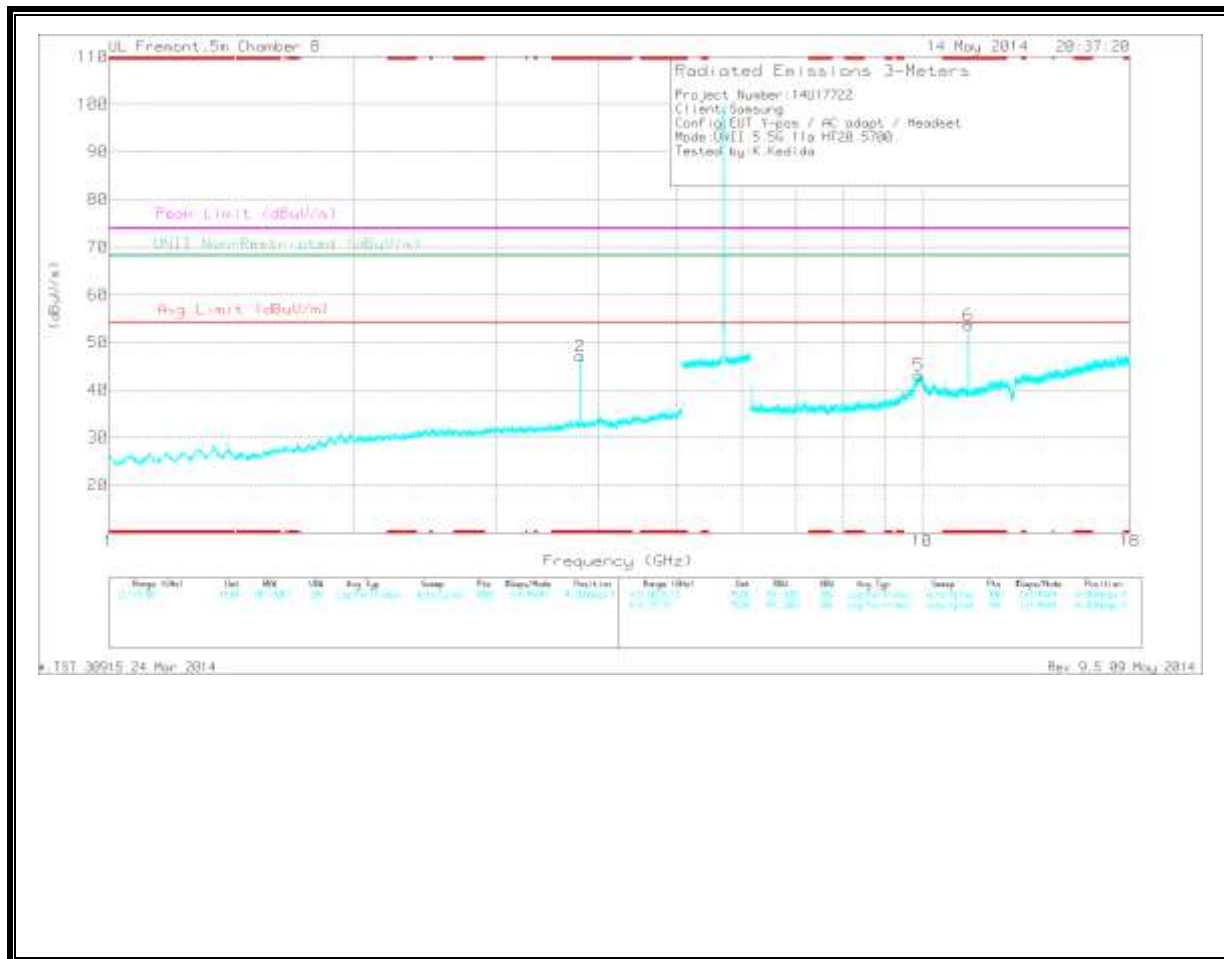
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (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
* 3.72	45.06	PK1	33.4	-31.2	0	47.26	-	-	74	-26.74	-	-	16	127	H
* 3.72	38.8	AD1	33.4	-31.2	.4	41.4	54	-12.6	-	-	-	-	16	127	H
* 9.304	40.94	PK1	36.4	-25	0	52.34	-	-	74	-21.66	-	-	205	109	H
* 9.303	30.16	AD1	36.4	-25	.4	41.96	54	-12.04	-	-	-	-	205	109	H
* 11.166	47.02	PK1	37.9	-22.2	0	62.72	-	-	74	-11.28	-	-	34	237	H
* 11.16	35.26	AD1	37.9	-22.2	.4	51.36	54	-2.64	-	-	-	-	34	237	H
* 11.158	47.92	PK1	37.9	-22.2	0	63.62	-	-	74	-10.38	-	-	344	294	V
* 11.163	35.45	AD1	37.9	-22.2	.4	51.55	54	-2.45	-	-	-	-	344	294	V

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



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



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 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.8	44.3	PK	33.6	-31	0	46.9	-	-	74	-27.1	-	-	0-360	99	H
2	* 3.8	44.52	PK	33.6	-31	0	47.12	-	-	74	-26.88	-	-	0-360	202	V
4	* 11.396	36.44	PK	38	-22.5	0	51.94	-	-	74	-22.06	-	-	0-360	99	H
6	* 11.401	38.04	PK	38	-22.4	0	53.64	-	-	74	-20.36	-	-	0-360	202	V
5	9.906	30.27	PK	37	-24.1	0	43.17	-	-	-	-	68.2	-25.03	0-360	202	V
3	9.914	30.2	PK	37	-24.2	0	43	-	-	-	-	68.2	-25.2	0-360	99	H

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

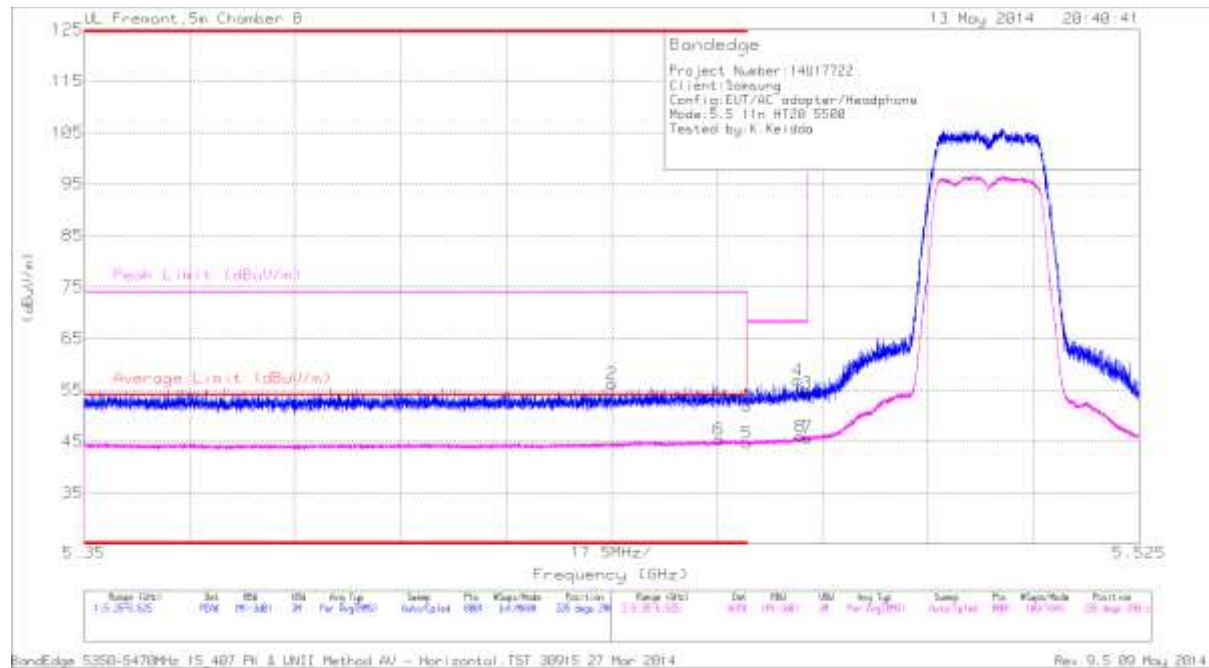
PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.8	47.67	PK1	33.6	-30.9	0	50.37	-	-	74	-23.63	-	-	116	100	H
* 3.8	43.63	AD1	33.6	-30.9	.4	46.73	54	-7.27	-	-	-	-	116	100	H
* 3.8	48.65	PK1	33.6	-30.9	0	51.35	-	-	74	-22.65	-	-	78	236	V
* 3.8	44.81	AD1	33.6	-30.9	.4	47.91	54	-6.09	-	-	-	-	78	236	V
* 11.399	48.14	PK1	38	-22.4	0	63.74	-	-	74	-10.26	-	-	42	221	H
* 11.4	36.08	AD1	38	-22.4	.4	52.08	54	-1.92	-	-	-	-	42	221	H
* 11.399	48.16	PK1	38	-22.4	0	63.76	-	-	74	-10.24	-	-	171	191	V
* 11.4	36.33	AD1	38	-22.4	.4	52.33	54	-1.67	-	-	-	-	171	191	V

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

11.3.3. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.5 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

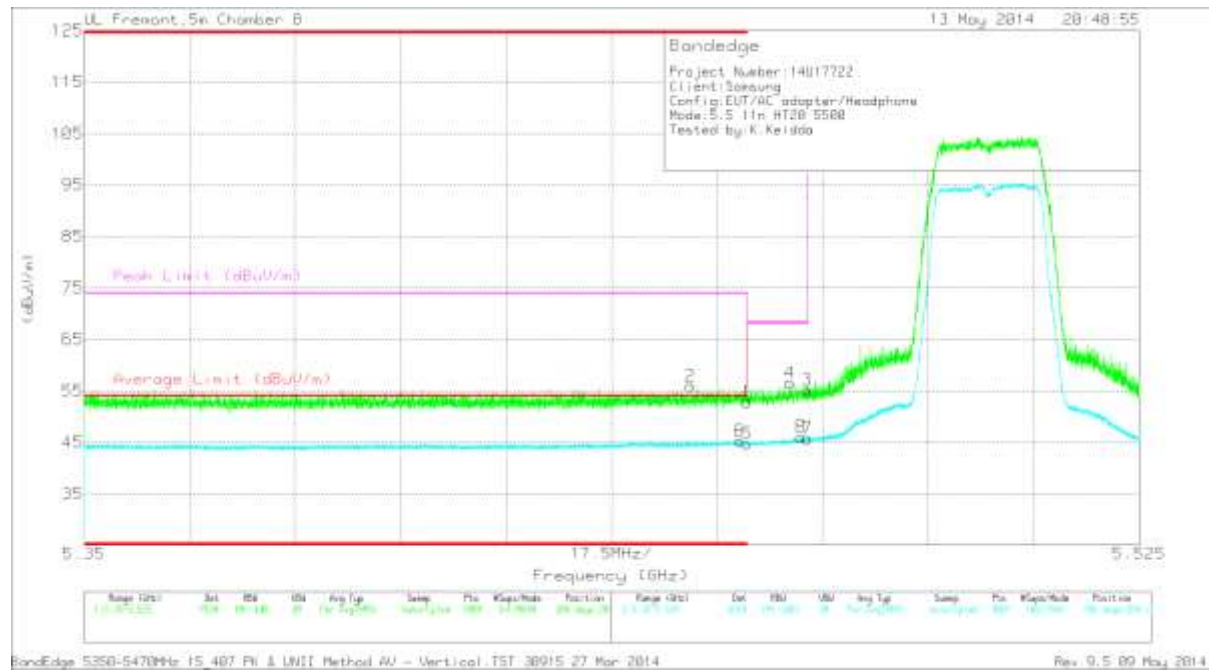


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	37.6	PK	34.5	-20.1	0	52	-	-	74	-22	335	280	H
2	* 5.438	41.65	PK	34.5	-20	0	56.15	-	-	74	-17.85	335	280	H
5	* 5.46	30	RMS	34.5	-20.1	.6	44.7	54	-9.3	-	-	335	280	H
6	* 5.455	30.67	RMS	34.5	-20.1	.6	45.37	54	-8.63	-	-	335	280	H
4	5.468	42.33	PK	34.5	-20	0	56.83	-	-	68.2	-11.37	335	280	H
8	5.469	31.11	RMS	34.5	-20	.6	45.91	-	-	-	-	335	280	H
3	5.47	39.89	PK	34.5	-20	0	54.39	-	-	68.2	-13.81	335	280	H
7	5.47	30.89	RMS	34.5	-20	.6	45.69	-	-	-	-	335	280	H

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

PK - Peak detector

RMS - RMS detection



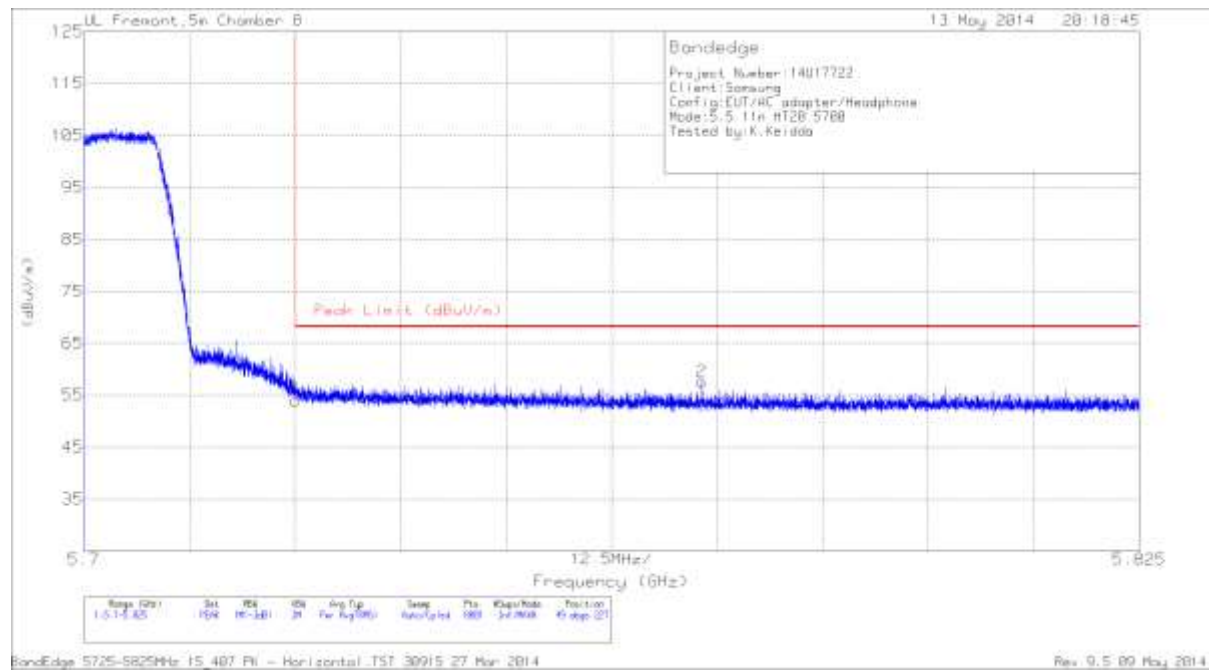
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	38.45	PK	34.5	-20.1	0	52.85	-	-	74	-21.15	206	204	V
2	* 5.451	41.57	PK	34.5	-20.1	0	55.97	-	-	74	-18.03	206	204	V
5	* 5.46	30.06	RMS	34.5	-20.1	.6	44.76	54	-9.24	-	-	206	204	V
6	* 5.459	30.6	RMS	34.5	-20.1	.6	45.3	54	-8.7	-	-	206	204	V
4	5.467	42.11	PK	34.5	-20.1	0	56.51	-	-	68.2	-11.69	206	204	V
8	5.469	31.28	RMS	34.5	-20	.6	46.08	-	-	-	-	206	204	V
3	5.47	40.69	PK	34.5	-20	0	55.19	-	-	68.2	-13.01	206	204	V
7	5.47	31.01	RMS	34.5	-20	.6	45.81	-	-	-	-	206	204	V

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

PK - Peak detector

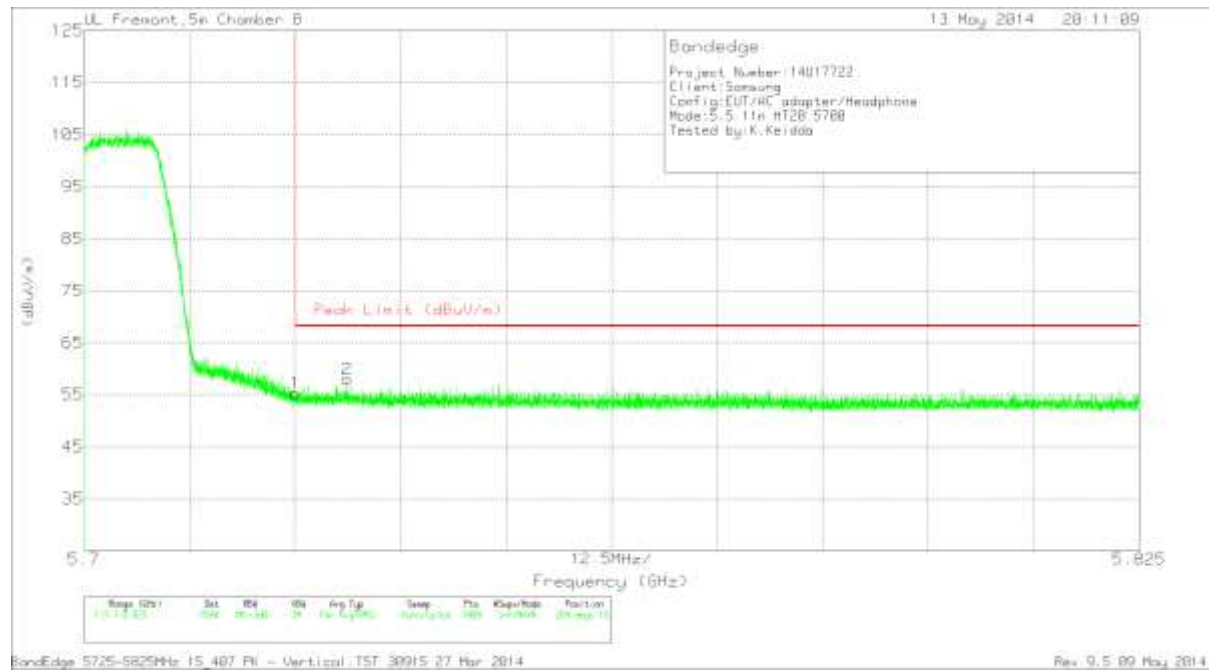
RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Flt r/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	39.3	PK	34.6	-19.9	54	68.2	-14.2	49	227	H
2	5.773	42.69	PK	34.7	-19.8	57.59	68.2	-10.61	49	227	H

PK - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT345 (dB/m)	Amp/Cbl/Flt r/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	40.62	PK	34.6	-19.9	55.32	68.2	-12.88	204	193	V
2	5.731	43.22	PK	34.6	-19.8	58.02	68.2	-10.18	204	193	V

PK - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW 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.



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	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fil tr/Pad (dB)	DC Corr (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
1	* 3.666	38.38	PK	33.3	-31.3	0	40.38	-	-	74	-33.62	-	-	0-360	202	H
2	* 3.666	37.63	PK	33.3	-31.3	0	39.63	-	-	74	-34.37	-	-	0-360	202	V
3	* 9.171	29.19	PK	36.3	-24.6	0	40.89	-	-	74	-33.11	-	-	0-360	99	H
4	* 10.998	35.87	PK	37.8	-22.4	0	51.27	-	-	74	-22.73	-	-	0-360	99	H
6	* 10.999	35.45	PK	37.8	-22.4	0	50.85	-	-	74	-23.15	-	-	0-360	202	V
5	9.929	29.73	PK	37	-23.9	0	42.83	-	-	-	-	68.2	-25.37	0-360	99	V

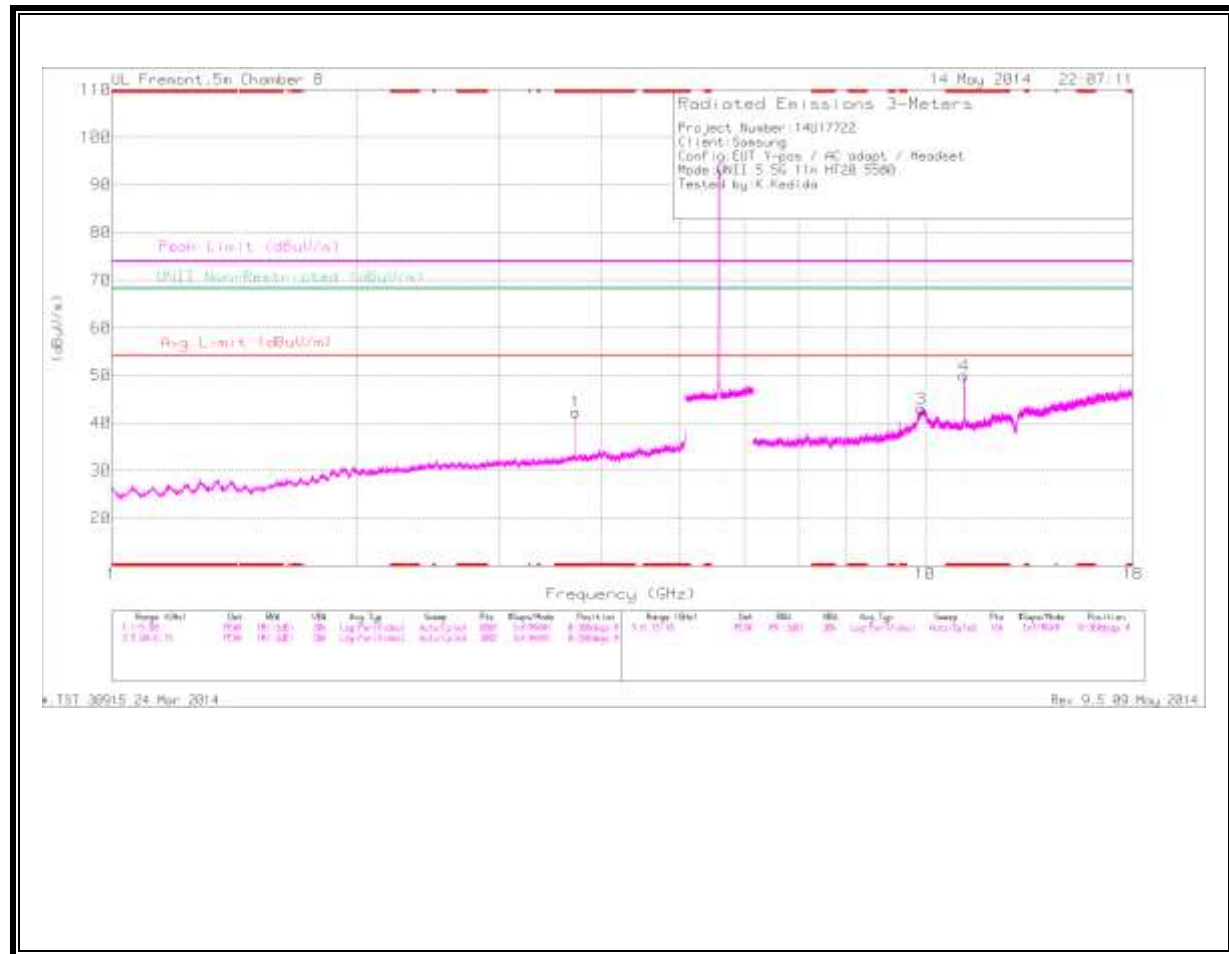
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fil tr/Pad (dB)	DC Corr (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
* 3.667	43.77	PK1	33.3	-31.3	0	45.77	-	-	74	-28.23	-	-	151	173	H
* 3.667	36.52	AD1	33.3	-31.3	.6	38.92	54	-15.08	-	-	-	-	151	173	H
* 3.667	43.59	PK1	33.3	-31.3	0	45.59	-	-	74	-28.41	-	-	74	184	V
* 3.667	35.9	AD1	33.3	-31.3	.6	38.3	54	-15.7	-	-	-	-	74	184	V
* 9.17	39.07	PK1	36.3	-24.6	0	50.77	-	-	74	-23.23	-	-	208	109	H
* 9.17	27.78	AD1	36.3	-24.6	.6	39.88	54	-14.12	-	-	-	-	208	109	H
* 10.998	45.69	PK1	37.8	-22.4	0	61.09	-	-	74	-12.91	-	-	76	116	H
* 10.999	33.47	AD1	37.8	-22.4	.6	49.27	54	-4.73	-	-	-	-	76	116	H
* 11.002	45.55	PK1	37.8	-22.4	0	60.95	-	-	74	-13.05	-	-	338	290	V
* 10.999	33.29	AD1	37.8	-22.4	.6	49.09	54	-4.91	-	-	-	-	338	290	V

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



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

UL Fresno, 5m Chamber B 14 May 2014 22:07:11

Radiated Emissions 3-Meters
 Project Number: 14017722
 Client: Samsung
 Config: EUT Y-pole / AC adapt / Headset
 Mode: (WII 5.5G 11n HT20 5500)
 Tested by: K. Kadida

Peak Limit (dBuV/m)
 Quasi Limit (dBuV/m)
 Avg Limit (dBuV/m)

Frequency (GHz)

Range (GHz)	Set	MW	SW	Ant. Type	Swamp	File	Steps/Rate	Res (Hz)	Range (GHz)	Set	MW	SW	Ant. Type	Swamp	File	Steps/Rate	Res (Hz)
0.1-0.5	100	10	100	Log P	100	100	100/100	100	0.5-1.0	100	10	100	Log P	100	100	100/100	100

* TST-30915 24 Mar 2014 Rev. 0.5 00 May 2014

Page 196 of 276

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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.72	40.03	PK	33.4	-31.2	0	42.23	-	-	74	-31.77	-	-	0-360	201	H
2	* 3.72	40.68	PK	33.4	-31.2	0	42.88	-	-	74	-31.12	-	-	0-360	202	V
4	* 11.162	34.23	PK	37.9	-22.2	0	49.93	-	-	74	-24.07	-	-	0-360	202	H
6	* 11.16	35.39	PK	37.9	-22.2	0	51.09	-	-	74	-22.91	-	-	0-360	202	V
3	9.888	30.09	PK	37	-24.1	0	42.99	-	-	-	-	68.2	-25.21	0-360	202	H
5	9.985	29.83	PK	37	-23.8	0	43.03	-	-	-	-	68.2	-25.17	0-360	99	V

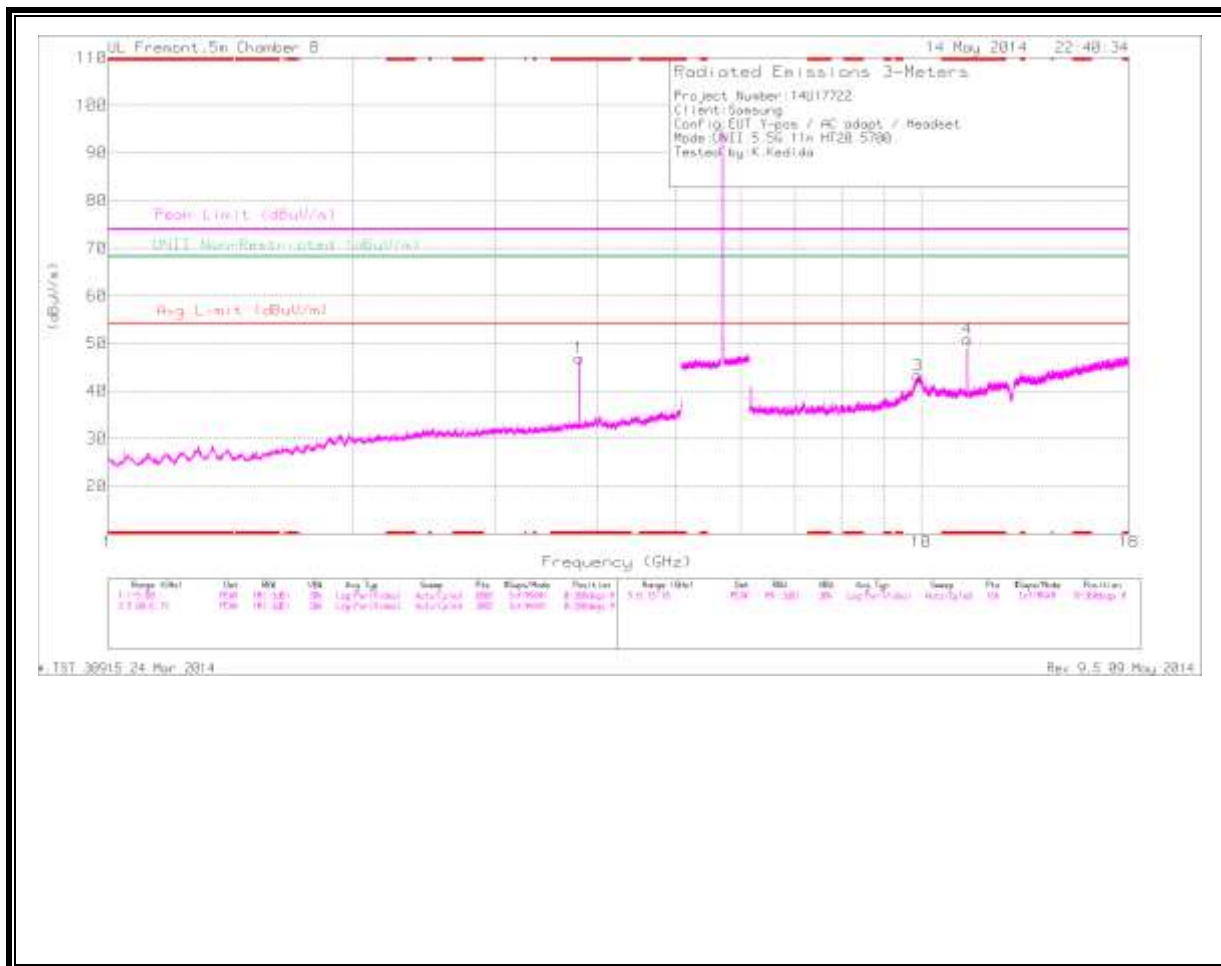
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Radiated Emissions

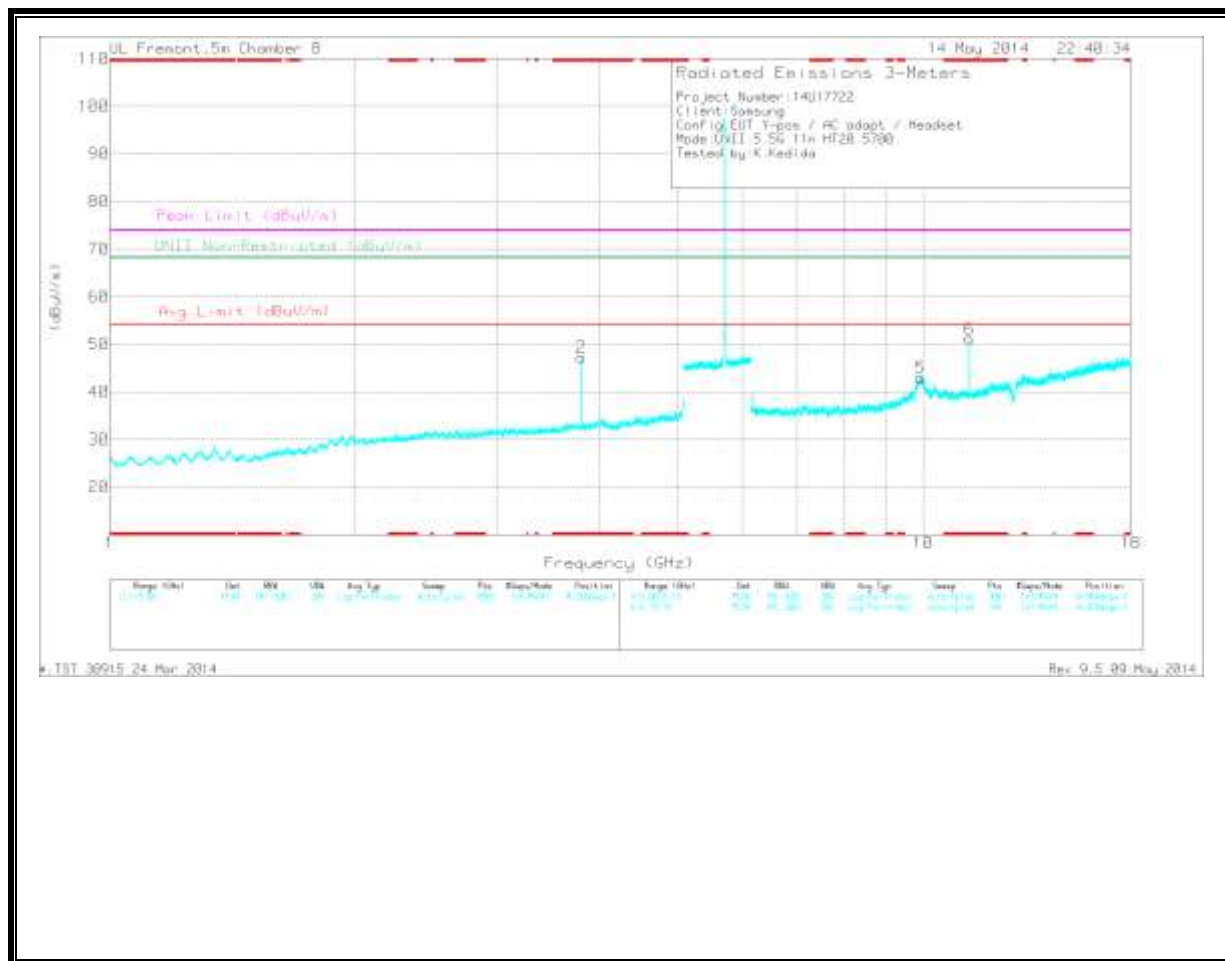
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.72	45.17	PK1	33.4	-31.2	0	47.37	-	-	74	-26.63	-	-	143	194	H
* 3.72	39.18	AD1	33.4	-31.2	.6	41.78	54	-12.22	-	-	-	-	143	194	H
* 3.72	45.98	PK1	33.4	-31.2	0	48.18	-	-	74	-25.82	-	-	82	194	V
* 3.72	40.23	AD1	33.4	-31.2	.6	42.83	54	-11.17	-	-	-	-	82	194	V
* 11.161	44.89	PK1	37.9	-22.2	0	60.59	-	-	74	-13.41	-	-	76	100	H
* 11.161	32.9	AD1	37.9	-22.2	.6	49	54	-5	-	-	-	-	76	100	H
* 11.161	45.33	PK1	37.9	-22.2	0	61.03	-	-	74	-12.97	-	-	337	244	V
* 11.159	33.4	AD1	37.9	-22.2	.6	49.5	54	-4.5	-	-	-	-	337	244	V
9.89	38.83	PK1	37	-24.1	0	51.73	-	-	-	-	68.2	-16.47	82	204	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.

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 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.8	44.32	PK	33.6	-31	0	46.92	-	-	74	-27.08	-	-	0-360	99	H
2	* 3.8	44.67	PK	33.6	-31	0	47.27	-	-	74	-26.73	-	-	0-360	202	V
4	* 11.4	35.29	PK	38	-22.4	0	50.89	-	-	74	-23.11	-	-	0-360	99	H
6	* 11.401	35.61	PK	38	-22.4	0	51.21	-	-	74	-22.79	-	-	0-360	202	V
3	9.908	30.38	PK	37	-24.1	0	43.28	-	-	-	-	68.2	-24.92	0-360	99	H
5	9.923	29.97	PK	37	-24	0	42.97	-	-	-	-	68.2	-25.23	0-360	99	V

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

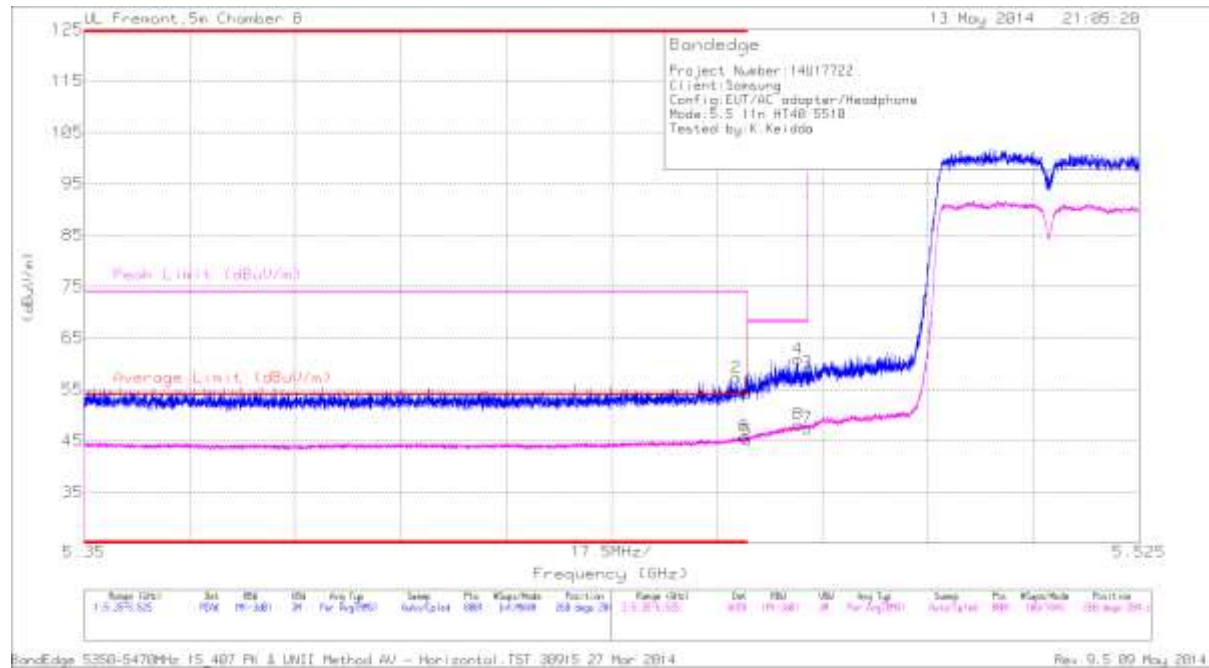
PK - Peak detector

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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.8	48.06	PK1	33.6	-30.9	0	50.76	-	-	74	-23.24	-	-	110	100	H
* 3.8	43.86	AD1	33.6	-30.9	.6	46.96	54	-7.04	-	-	-	-	110	100	H
* 3.8	48.79	PK1	33.6	-30.9	0	51.49	-	-	74	-22.51	-	-	79	238	V
* 3.8	44.93	AD1	33.6	-30.9	.6	48.03	54	-5.97	-	-	-	-	79	238	V
* 11.397	45.8	PK1	38	-22.4	0	61.4	-	-	74	-12.6	-	-	191	136	H
* 11.399	33.24	AD1	38	-22.4	.6	49.24	54	-4.76	-	-	-	-	191	136	H
* 11.401	46.99	PK1	38	-22.4	0	62.59	-	-	74	-11.41	-	-	299	235	V
* 11.401	34.52	AD1	38	-22.4	.6	50.52	54	-3.48	-	-	-	-	299	235	V
9.91	39.6	PK1	37	-24.1	0	52.5	-	-	-	-	68.2	-15.7	79	100	H
9.922	39.17	PK1	37	-24	0	52.17	-	-	-	-	68.2	-16.03	191	100	V

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

11.3.5. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.5 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

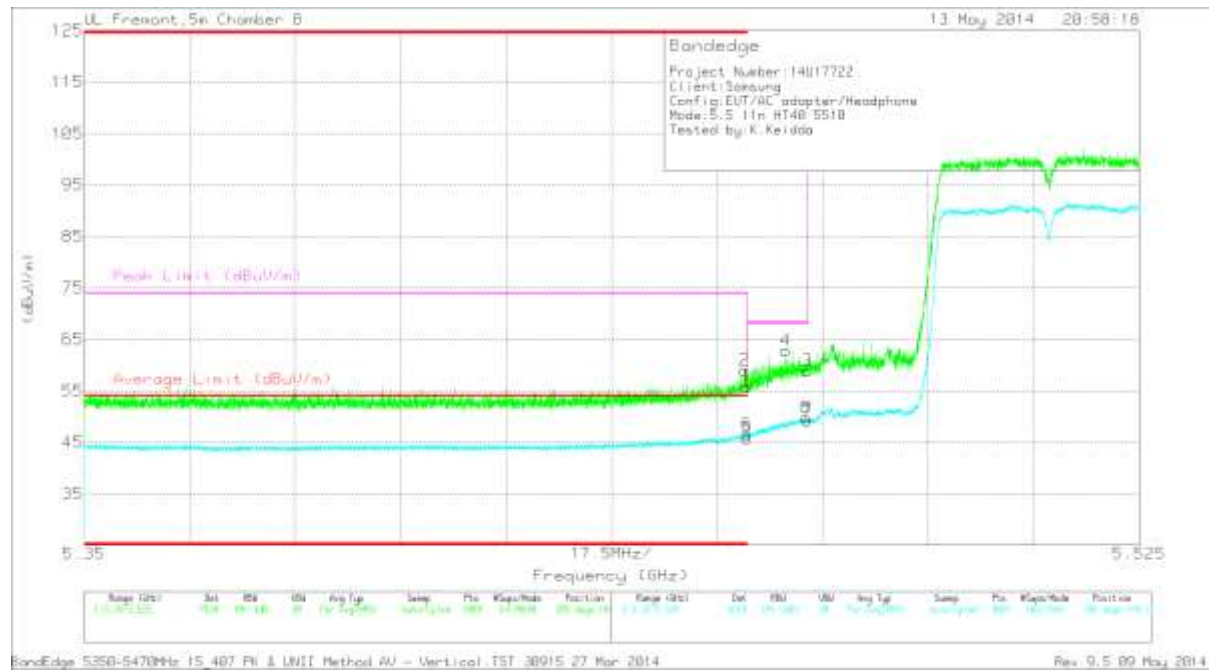


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	39.79	PK	34.5	-20.1	0	54.19	-	-	74	-19.81	260	204	H
2	* 5.458	42.84	PK	34.5	-20.1	0	57.24	-	-	74	-16.76	260	204	H
5	* 5.46	30.59	RMS	34.5	-20.1	1	45.19	54	-8.81	-	-	260	204	H
6	* 5.46	31.26	RMS	34.5	-20.1	1	45.86	54	-8.14	-	-	260	204	H
4	5.468	46.46	PK	34.5	-20	0	60.96	-	-	68.2	-7.24	260	204	H
8	5.468	33.48	RMS	34.5	-20	1	48.18	-	-	-	-	260	204	H
3	5.47	43.66	PK	34.5	-20	0	58.16	-	-	68.2	-10.04	260	204	H
7	5.47	32.75	RMS	34.5	-20	1	47.45	-	-	-	-	260	204	H

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

PK - Peak detector

RMS - RMS detection



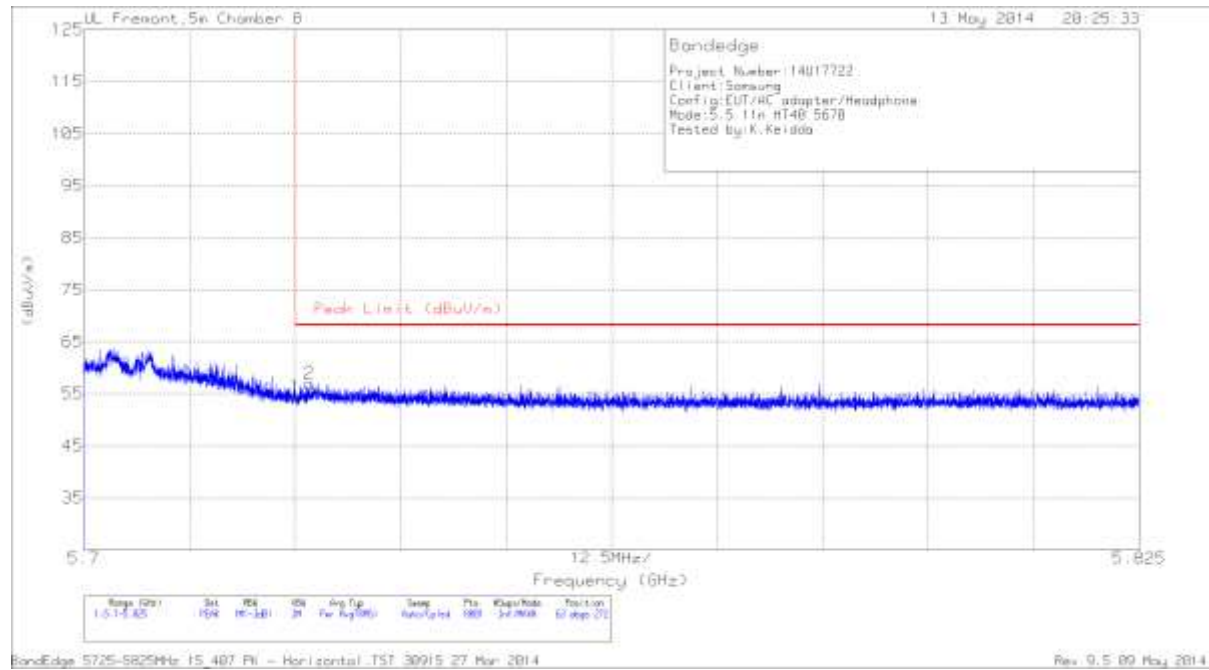
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	41.44	PK	34.5	-20.1	0	55.84	-	-	74	-18.16	205	184	V
2	* 5.46	44.62	PK	34.5	-20.1	0	59.02	-	-	74	-14.98	205	184	V
5	* 5.46	31.29	RMS	34.5	-20.1	1	45.89	54	-8.11	-	-	205	184	V
6	* 5.46	31.92	RMS	34.5	-20.1	1	46.52	54	-7.48	-	-	205	184	V
4	5.466	48.46	PK	34.5	-20.1	0	62.86	-	-	68.2	-5.34	205	184	V
3	5.47	44.43	PK	34.5	-20	0	58.93	-	-	68.2	-9.27	205	184	V
7	5.47	34.52	RMS	34.5	-20	1	49.22	-	-	-	-	205	184	V
8	5.47	35.11	RMS	34.5	-20	1	49.81	-	-	-	-	205	184	V

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

PK - Peak detector

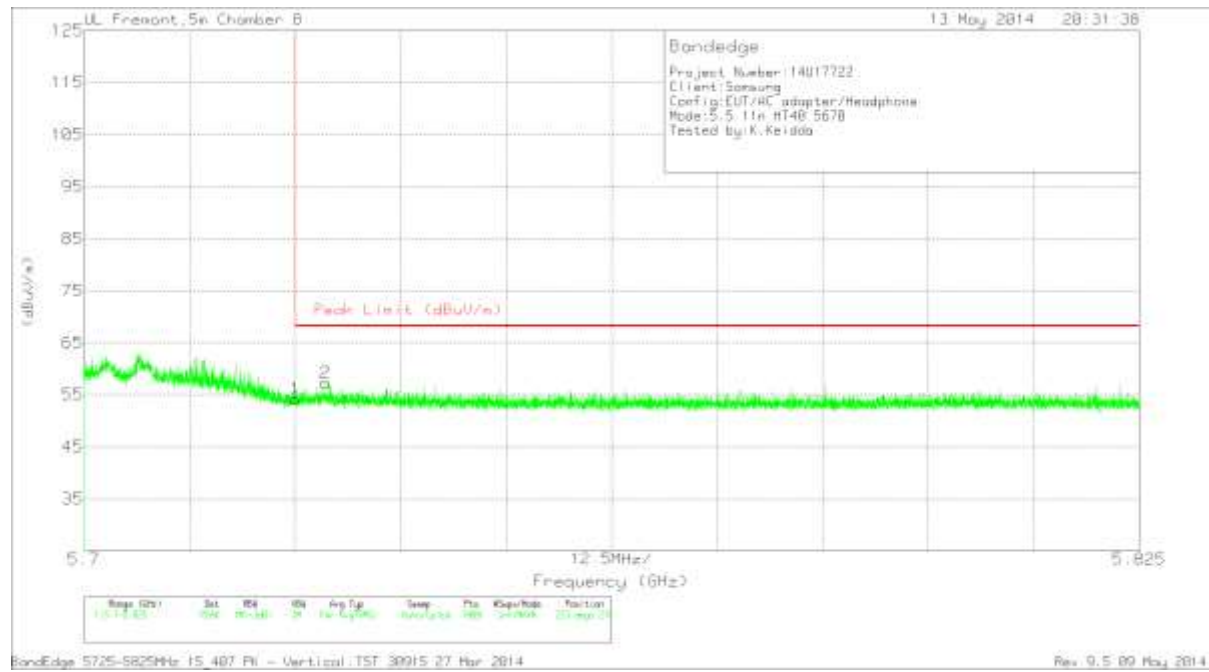
RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	39.72	PK	34.6	-19.9	54.42	68.2	-13.78	63	272	H
2	5.727	42.25	PK	34.6	-19.9	56.95	68.2	-11.25	63	272	H

PK - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT345 (dB/m)	Amp/Cbl/Flt r/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	39.51	PK	34.6	-19.9	54.21	68.2	-13.99	273	278	V
2	5.729	42.51	PK	34.6	-19.8	57.31	68.2	-10.89	273	278	V

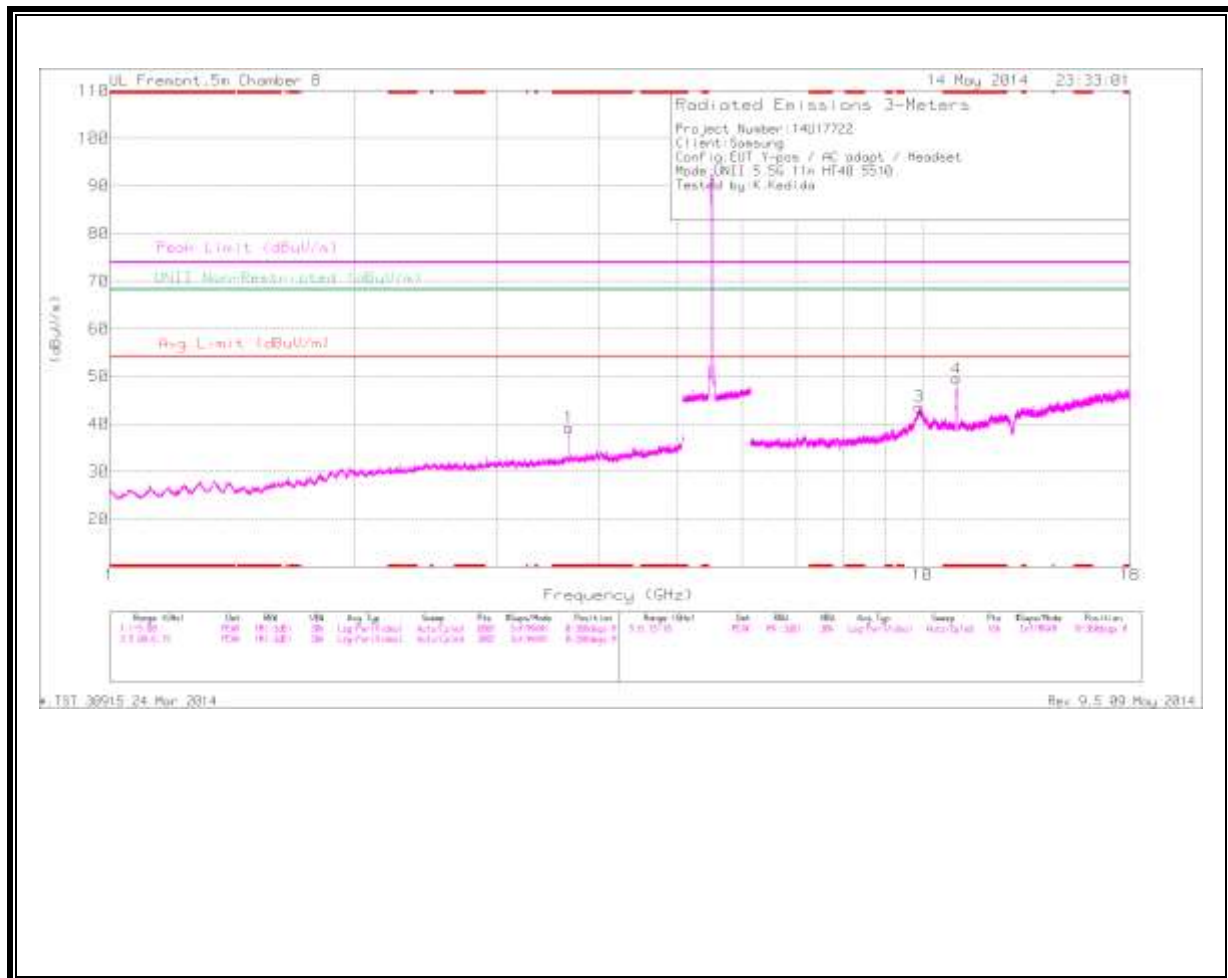
PK - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW 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.



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

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (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
1	* 3.674	37.24	PK	33.3	-31.3	0	39.24	-	-	74	-34.76	-	-	0-360	201	H
2	* 3.673	38.16	PK	33.3	-31.3	0	40.16	-	-	74	-33.84	-	-	0-360	202	V
4	* 11.021	34.41	PK	37.8	-22.7	0	49.51	-	-	74	-24.49	-	-	0-360	201	H
6	* 11.019	33.69	PK	37.8	-22.7	0	48.79	-	-	74	-25.21	-	-	0-360	202	V
5	9.893	29.75	PK	37	-24	0	42.75	-	-	-	-	68.2	-25.45	0-360	202	V
3	9.906	30.7	PK	37	-24.1	0	43.6	-	-	-	-	68.2	-24.6	0-360	99	H

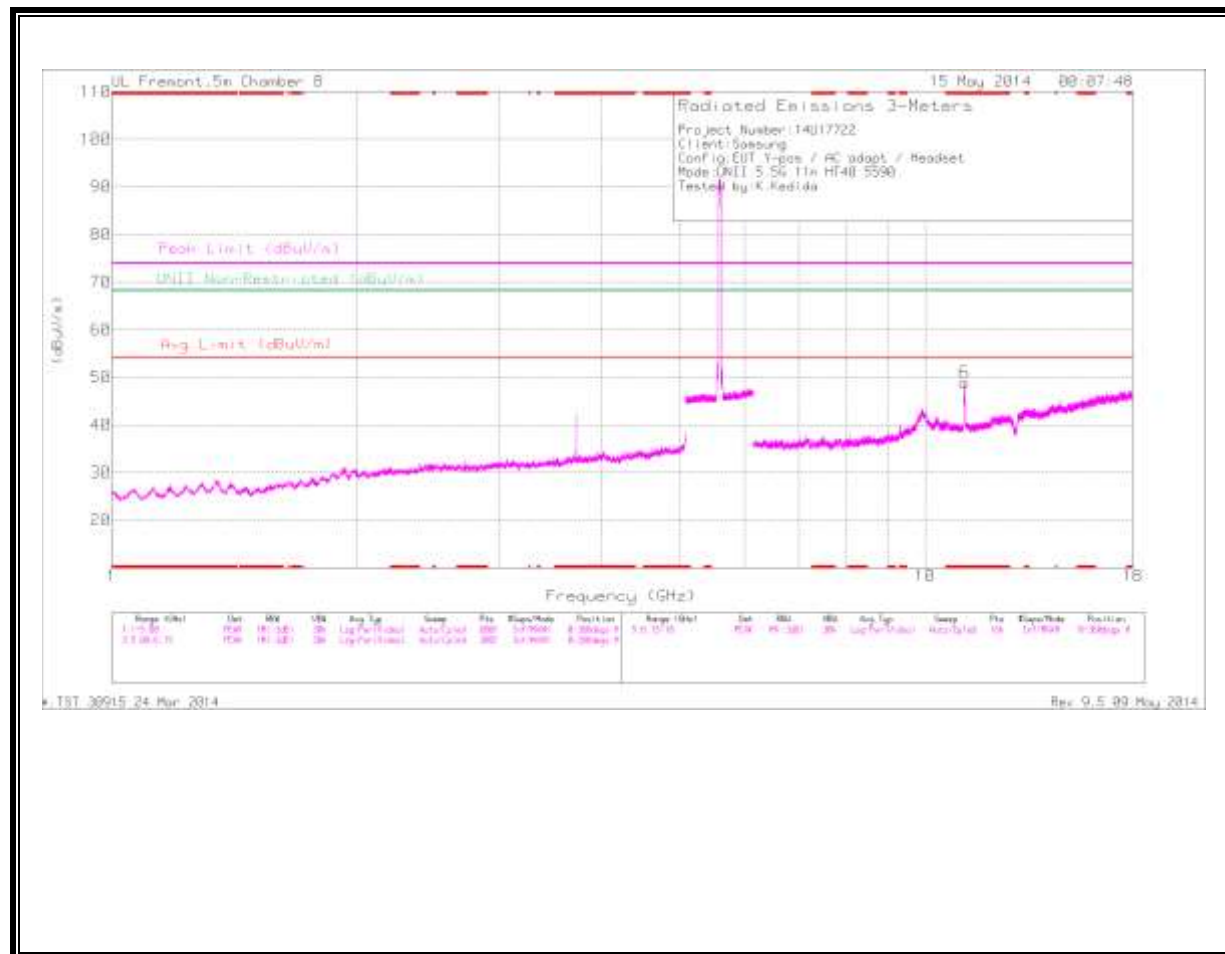
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (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
* 3.673	43.9	PK1	33.3	-31.3	0	45.9	-	-	74	-28.1	-	-	145	193	H
* 3.673	35.69	AD1	33.3	-31.3	1	38.09	54	-15.91	-	-	-	-	145	193	H
* 3.673	43.86	PK1	33.3	-31.3	0	45.86	-	-	74	-28.14	-	-	71	186	V
* 3.673	36.19	AD1	33.3	-31.3	1	38.59	54	-15.41	-	-	-	-	71	186	V
* 11.024	41	PK1	37.8	-22.6	0	56.2	-	-	74	-17.8	-	-	69	111	H
* 11.021	28.5	AD1	37.8	-22.7	1	44	54	-10	-	-	-	-	69	111	H
* 11.018	44.03	PK1	37.8	-22.7	0	59.13	-	-	74	-14.87	-	-	342	259	V
* 11.019	31.03	AD1	37.8	-22.7	1	46.53	54	-7.47	-	-	-	-	342	259	V

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



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



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	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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.727	40.72	PK	33.4	-31.2	0	42.92	-	-	74	-31.08	-	-	0-360	202	V
6	* 11.181	33.17	PK	37.9	-22.1	0	48.97	-	-	74	-25.03	-	-	0-360	201	H
5	* 11.179	33.94	PK	37.9	-22.1	0	49.74	-	-	74	-24.26	-	-	0-360	202	V
2	6.834	30.02	PK	35.6	-28.3	0	37.32	-	-	-	-	68.2	-30.88	0-360	99	V
3	7.82	27.44	PK	35.7	-26.1	0	37.04	-	-	-	-	68.2	-31.16	0-360	202	V
4	9.893	29.75	PK	37	-24	0	42.75	-	-	-	-	68.2	-25.45	0-360	202	V

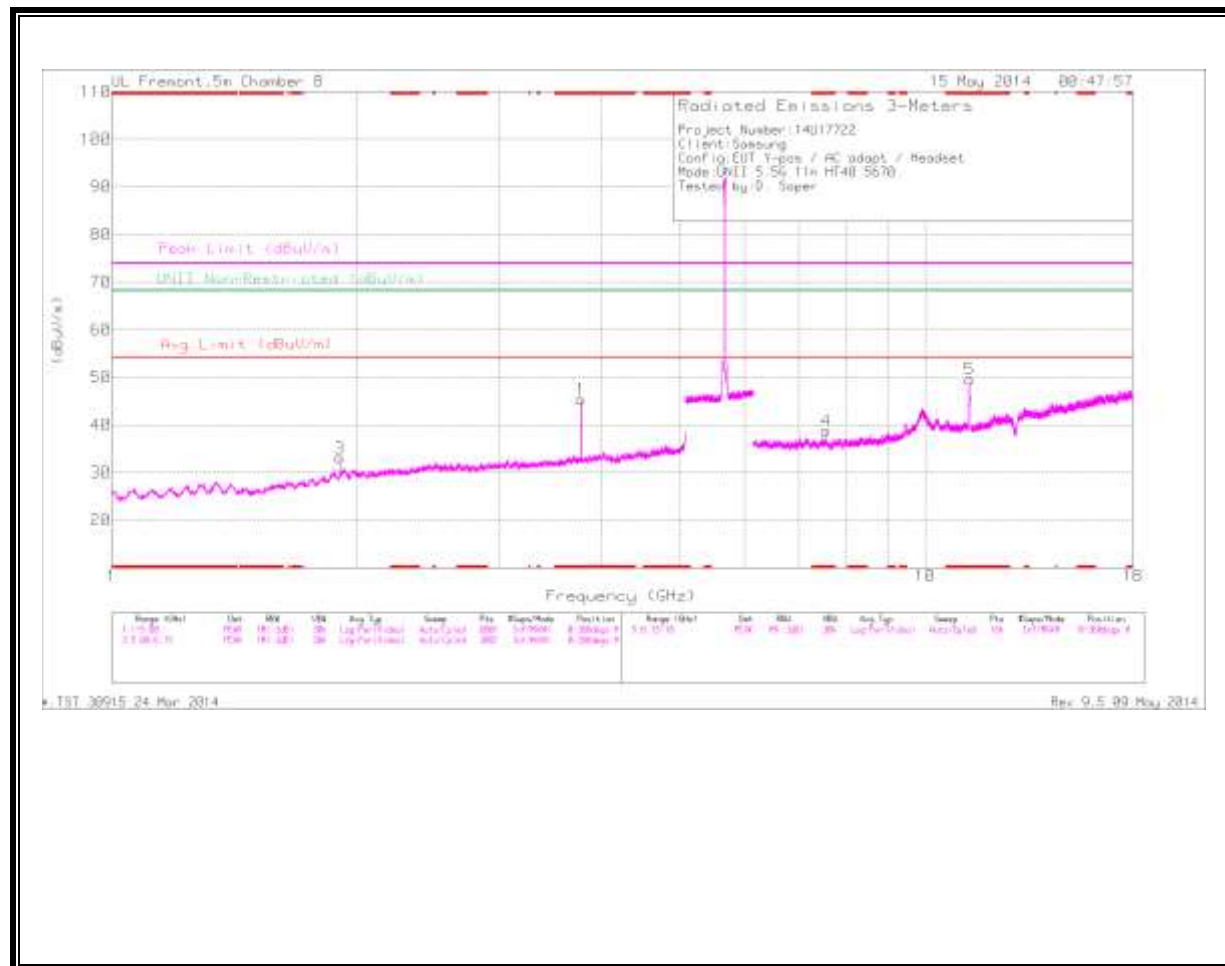
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

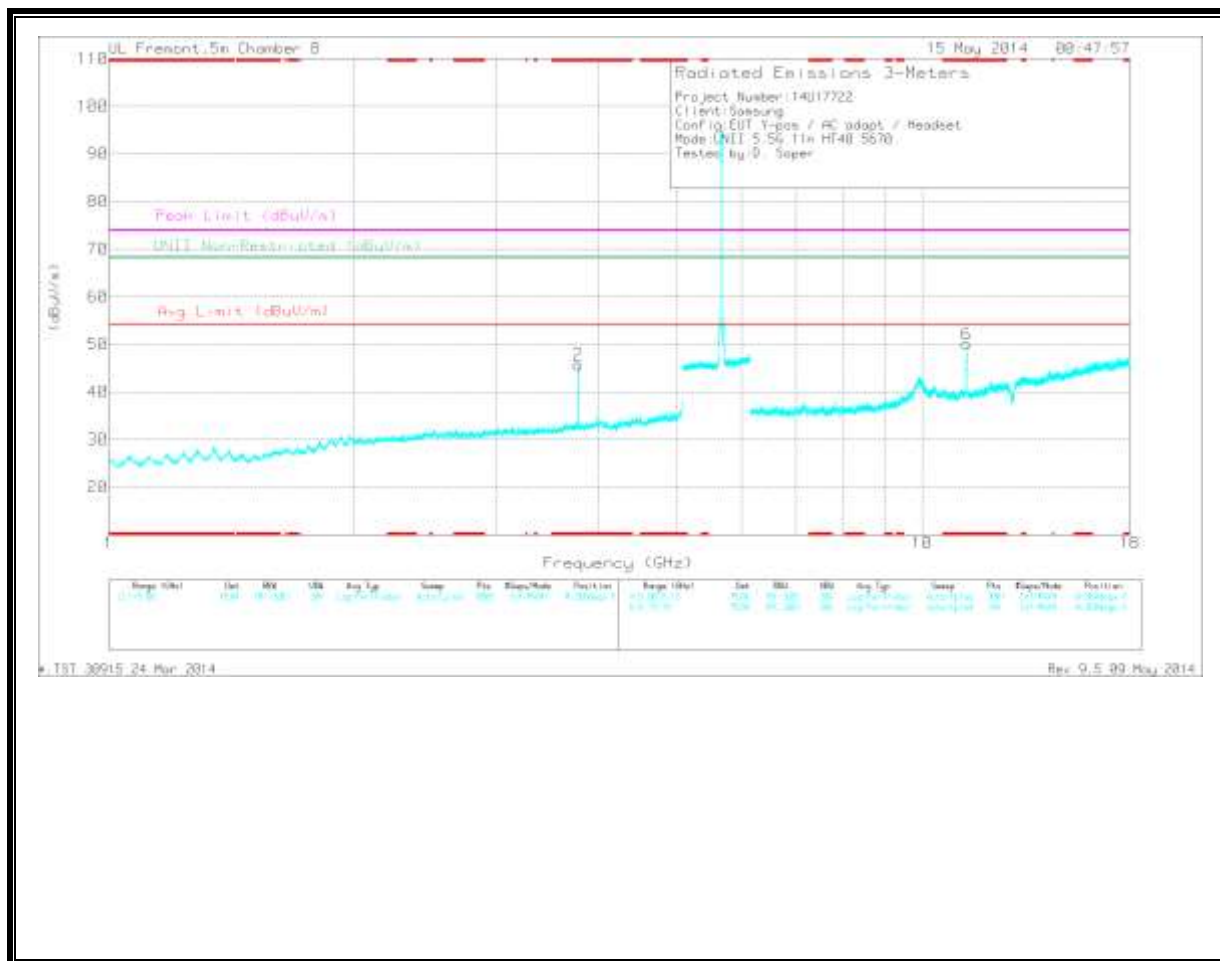
Radiated Emissions

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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.726	45.55	PK1	33.4	-31.2	0	47.75	-	-	74	-26.25	-	-	75	247	V
* 3.727	39.42	AD1	33.4	-31.2	1	42.02	54	-11.98	-	-	-	-	75	247	V
* 11.174	42.4	PK1	37.9	-22.1	0	58.2	-	-	74	-15.8	-	-	189	216	H
* 11.182	30.13	AD1	37.9	-22.1	1	46.33	54	-7.67	-	-	-	-	189	216	H
* 11.178	43.71	PK1	37.9	-22.1	0	59.51	-	-	74	-14.49	-	-	339	262	V
* 11.179	31.38	AD1	37.9	-22.1	1	47.58	54	-6.42	-	-	-	-	339	262	V

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



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



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 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.78	42.68	PK	33.6	-30.9	0	45.38	-	-	74	-28.62	-	-	0-360	99	H
2	* 3.78	43.05	PK	33.6	-30.9	0	45.75	-	-	74	-28.25	-	-	0-360	202	V
4	* 7.56	29.88	PK	35.6	-26.7	0	38.78	-	-	74	-35.22	-	-	0-360	99	H
5	* 11.338	34.1	PK	38	-22.5	0	49.6	-	-	74	-24.4	-	-	0-360	99	H
6	* 11.341	34.56	PK	38	-22.5	0	50.06	-	-	74	-23.94	-	-	0-360	202	V
3	1.908	34.83	PK	31.1	-32.9	0	33.03	-	-	-	-	68.2	-35.17	0-360	202	H

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

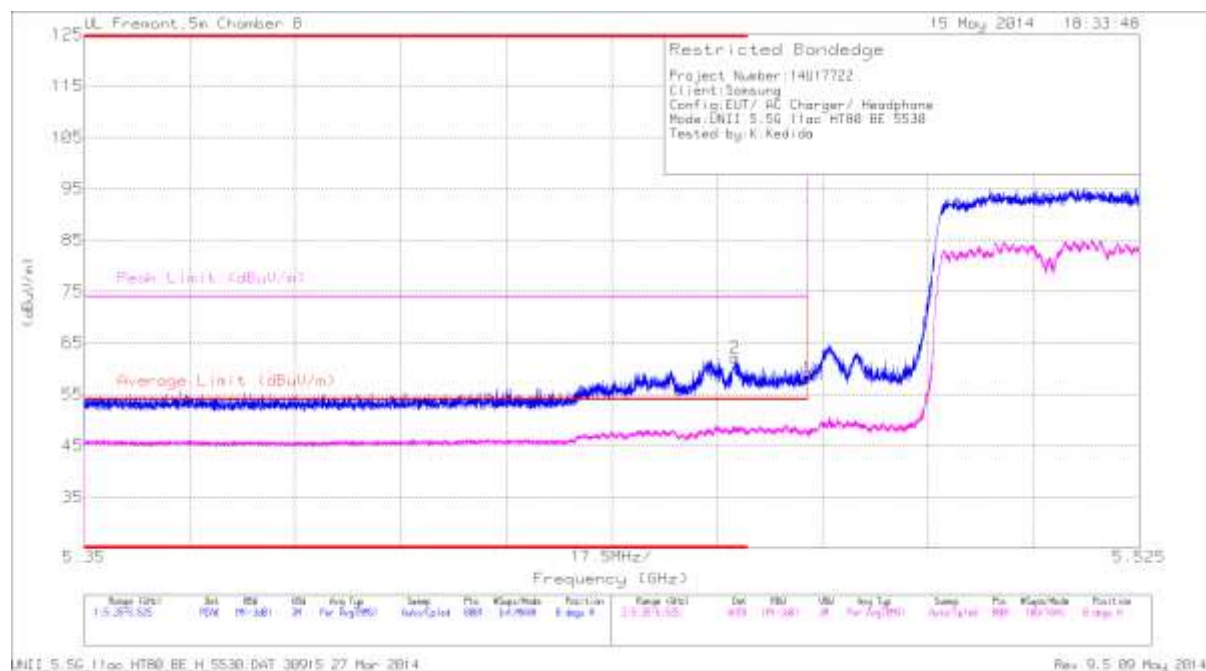
PK - Peak detector

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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.78	47.4	PK1	33.6	-30.9	0	50.1	-	-	74	-23.9	-	-	45	103	H
* 3.78	41.97	AD1	33.6	-30.9	1	45.07	54	-8.93	-	-	-	-	45	103	H
* 3.78	47.92	PK1	33.6	-30.9	0	50.62	-	-	74	-23.38	-	-	85	215	V
* 3.78	43.46	AD1	33.6	-30.9	1	46.56	54	-7.44	-	-	-	-	85	215	V
* 11.342	43.59	PK1	38	-22.5	0	59.09	-	-	74	-14.91	-	-	81	100	H
* 11.339	31.12	AD1	38	-22.5	1	47.02	54	-6.98	-	-	-	-	81	100	H
* 11.338	44.11	PK1	38	-22.5	0	59.61	-	-	74	-14.39	-	-	312	305	V
* 11.341	32.23	AD1	38	-22.5	1	48.13	54	-5.87	-	-	-	-	312	305	V

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

11.3.7. TX ABOVE 1 GHz 802.11ac HT80 MODE IN THE 5.5 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

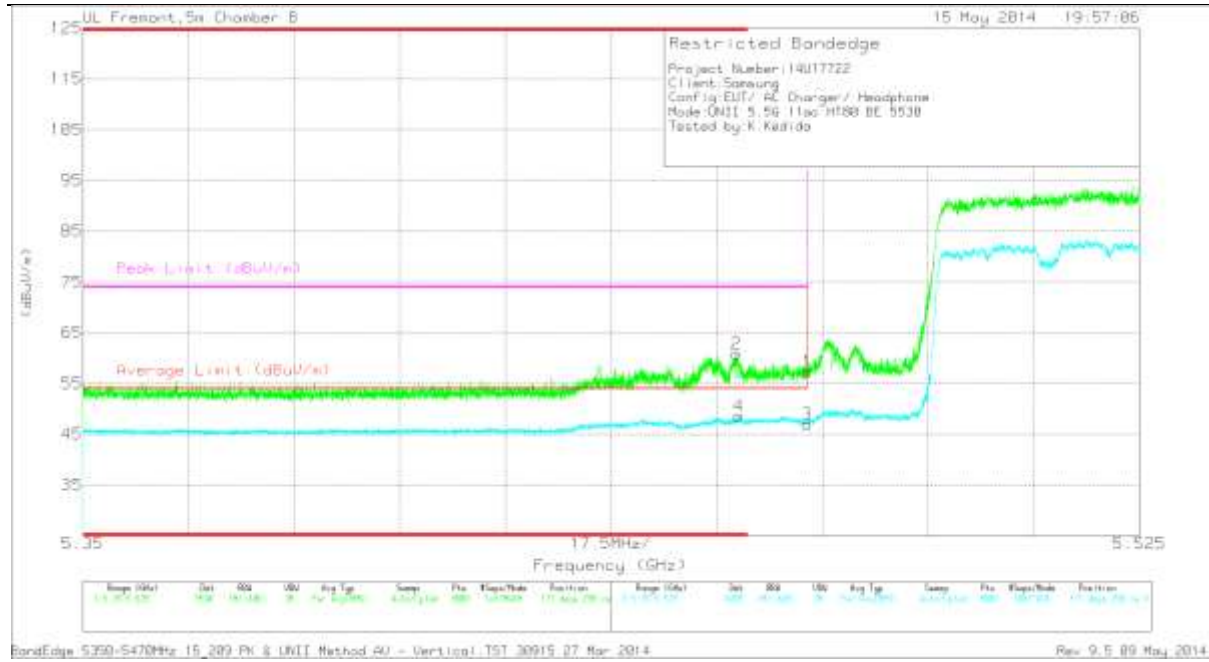


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	*5.458	47.68	PK	34.5	-20.1	0	62.08	-	-	74	-11.92	0	176	H
4	5.466	33.07	RMS	34.5	-20.1	4	51.47	54	-2.53	-	-	0	176	H
1	5.47	43.61	PK	34.5	-20	0	58.11	-	-	74	-15.89	0	176	H
3	5.47	31.65	RMS	34.5	-20	4	50.15	54	-3.85	-	-	0	176	H

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

PK - Peak detector

RMS - RMS detection



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
2	* 5.458	46.44	PK	34.5	-20.1	0	60.84	-	-	74	-13.16	171	299	V
4	* 5.459	32.4	RMS	34.5	-20.1	4	50.8	54	-3.2	-	-	171	299	V
1	5.47	42.88	PK	34.5	-20	0	57.38	-	-	74	-16.62	171	299	V
3	5.47	30.64	RMS	34.5	-20	4	49.14	54	-4.86	-	-	171	299	V

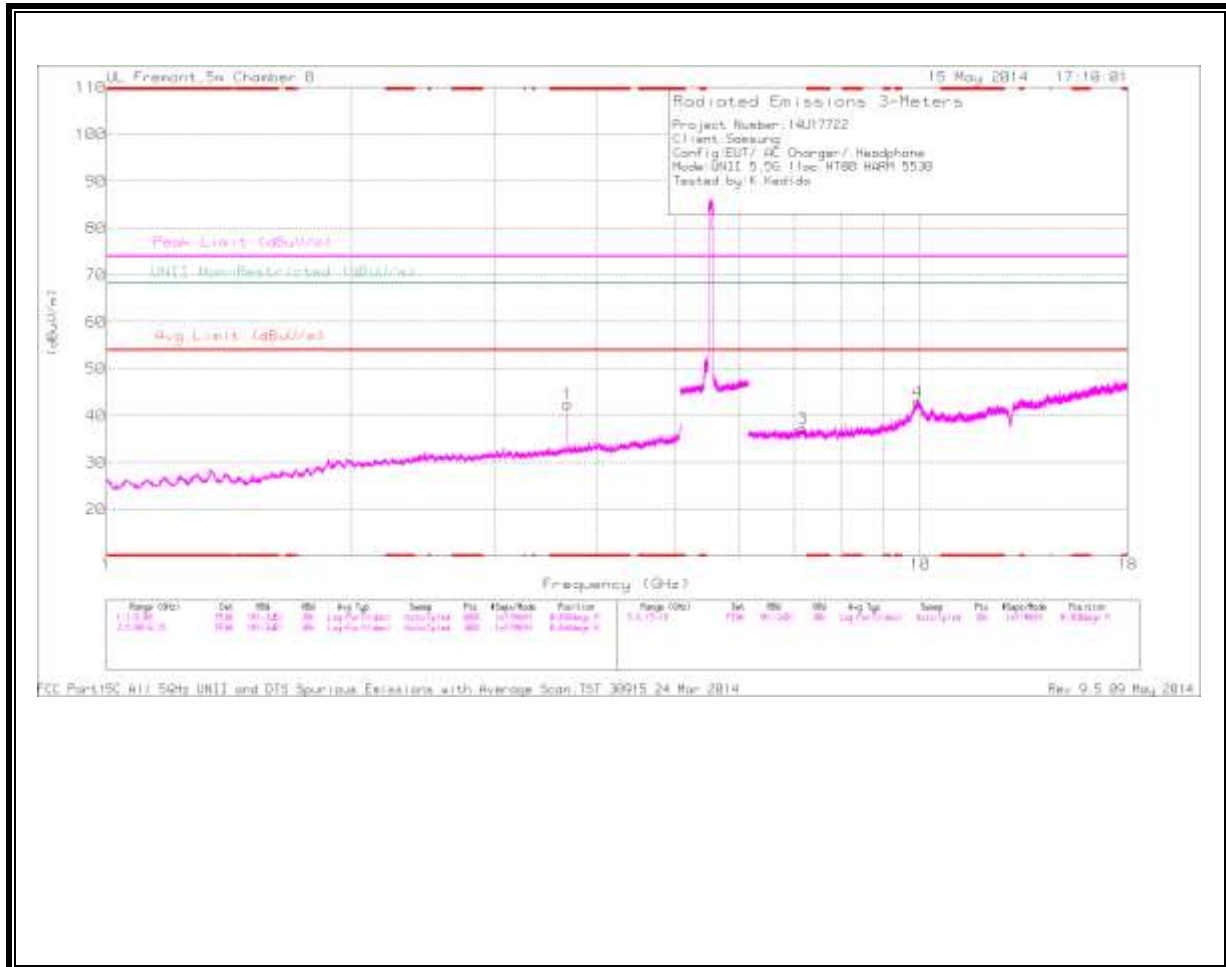
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

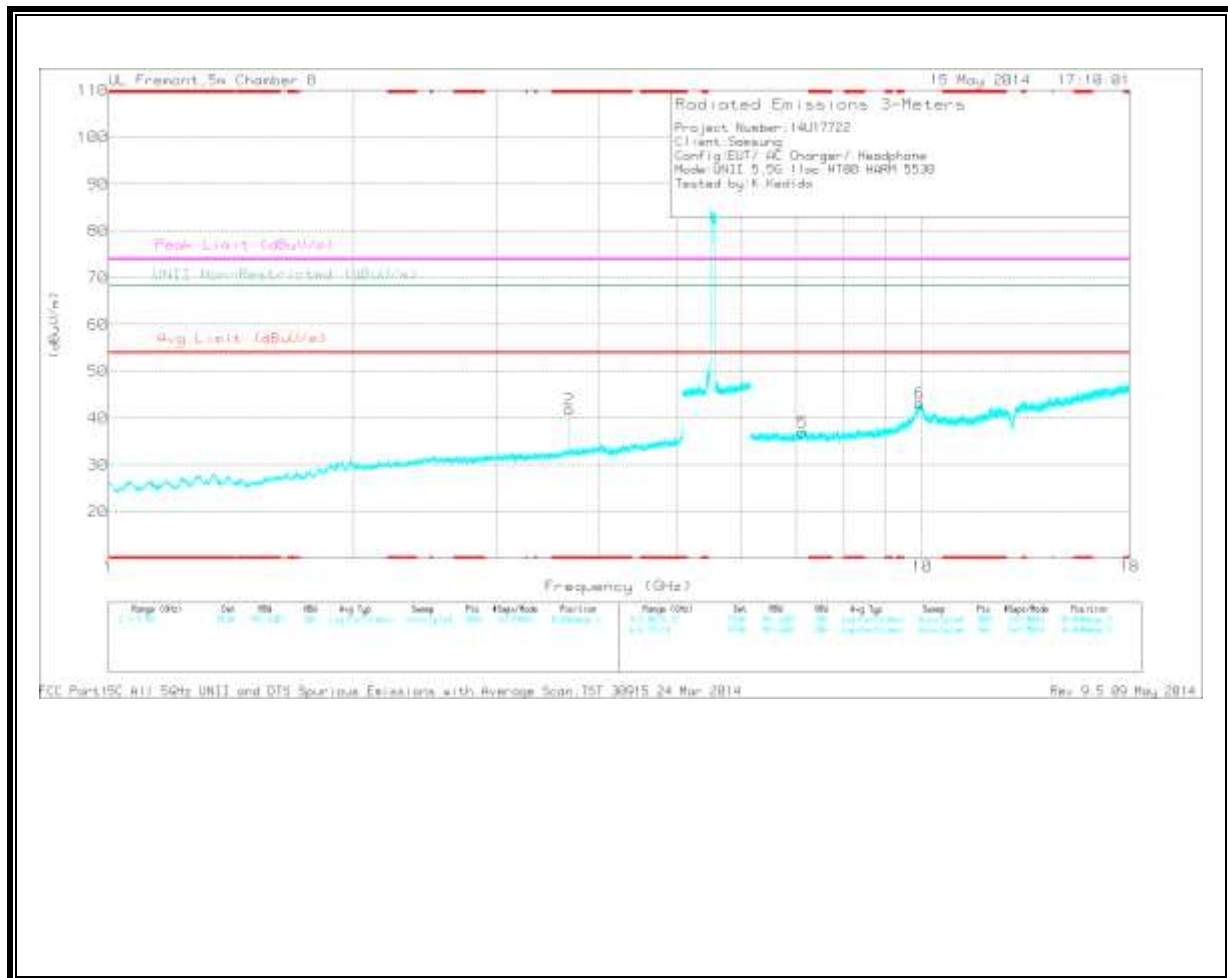
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL
HORIZONTAL



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



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	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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.687	40.47	PK	33.3	-31.3	0	42.47	-	-	74	-31.53	-	-	0-360	99	H
2	* 3.687	39.83	PK	33.3	-31.3	0	41.83	-	-	74	-32.17	-	-	0-360	99	V
5	7.136	29.03	PK	35.6	-27.7	0	36.93	-	-	-	-	68.2	-31.27	0-360	202	V
3	7.169	28.48	PK	35.6	-26.9	0	37.18	-	-	-	-	68.2	-31.02	0-360	99	H
4	9.922	30.02	PK	37	-24	0	43.02	-	-	-	-	68.2	-25.18	0-360	99	H
6	9.934	30.09	PK	37	-23.9	0	43.19	-	-	-	-	68.2	-25.01	0-360	202	V

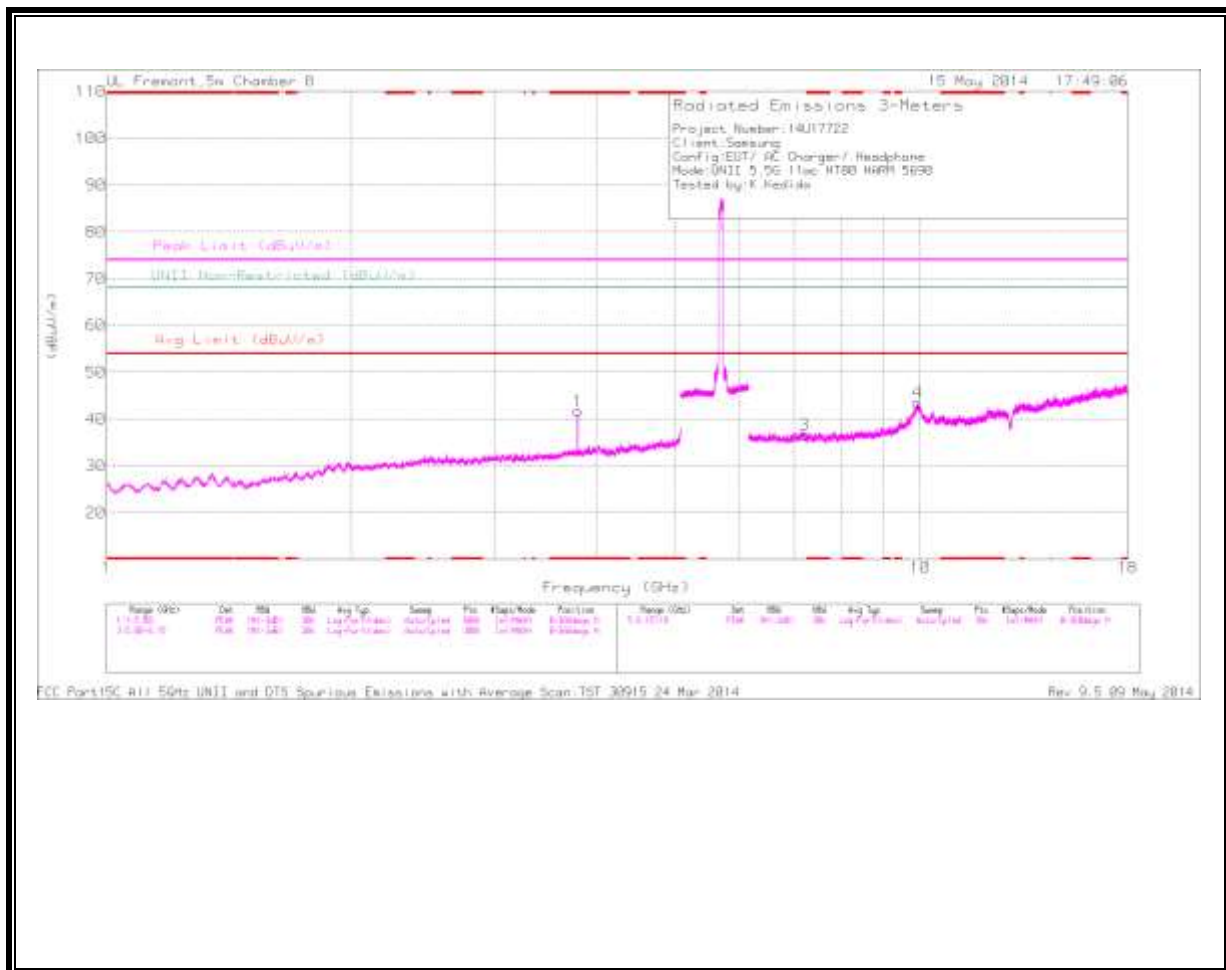
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.687	45.71	PK1	33.3	-31.3	0	47.71	-	-	74	-26.29	-	-	4	118	H
* 3.687	39.36	AD1	33.3	-31.3	4	43.16	54	-10.84	-	-	-	-	4	118	H
* 3.687	44.69	PK1	33.3	-31.3	0	46.69	-	-	74	-27.31	-	-	348	101	V
* 3.687	37.88	AD1	33.3	-31.3	4	41.68	54	-12.32	-	-	-	-	348	101	V
7.167	38.61	PK1	35.6	-26.9	0	47.31	-	-	-	-	68.2	-20.89	348	101	H
9.901	27.24	AD1	37	-24.1	4	41.94	-	-	-	-	-	-	103	222	H
9.908	38.7	PK1	37	-24.1	0	51.6	-	-	-	-	68.2	-16.6	103	222	H

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



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



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 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.793	39.04	PK	33.6	-30.9	0	41.74	-	-	74	-32.26	-	-	0-360	201	H
2	* 3.793	37.9	PK	33.6	-30.9	0	40.6	-	-	74	-33.4	-	-	0-360	202	V
5	7.203	27.69	PK	35.5	-26.5	0	36.69	-	-	-	-	68.2	-31.51	0-360	99	V
3	7.206	27.71	PK	35.5	-26.5	0	36.71	-	-	-	-	68.2	-31.49	0-360	202	H
6	9.931	30.31	PK	37	-23.9	0	43.41	-	-	-	-	68.2	-24.79	0-360	99	V
4	9.932	30.52	PK	37	-23.9	0	43.62	-	-	-	-	68.2	-24.58	0-360	99	H

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

PK - Peak detector

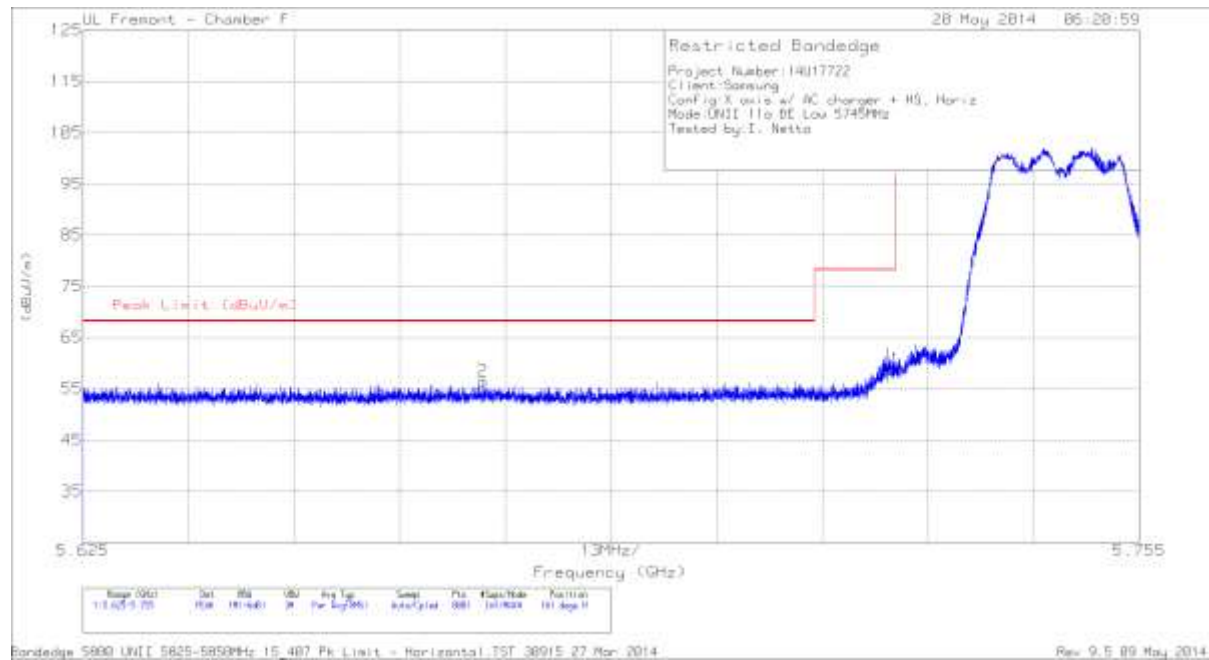
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.793	44.95	PK1	33.6	-30.9	0	47.65	-	-	74	-26.35	-	-	101	196	H
* 3.793	37.14	AD1	33.6	-30.9	4	41.64	54	-12.36	-	-	-	-	101	196	H
* 3.793	43.88	PK1	33.6	-30.9	0	46.58	-	-	74	-27.42	-	-	11	201	V
* 3.793	36.48	AD1	33.6	-30.9	4	40.98	54	-13.02	-	-	-	-	11	201	V
7.205	37.46	PK1	35.5	-26.5	0	46.46	-	-	-	-	68.2	-21.74	11	201	H
9.905	27.26	AD1	37	-24.1	4	41.96	-	-	-	-	-	-	257	159	H
9.926	39.25	PK1	37	-23.9	0	52.35	-	-	-	-	68.2	-15.85	257	159	H

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

11.4. 5.8 GHz

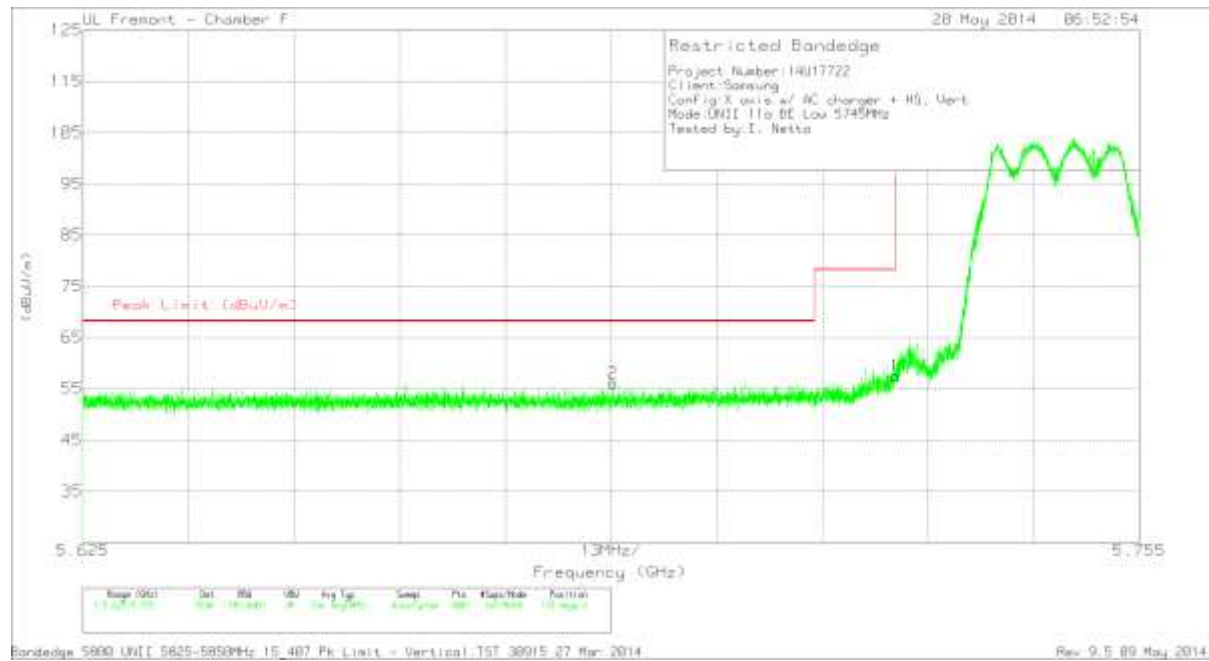
11.4.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.8 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL 5745 MHz)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	43.1	PK	34.8	-19.1	0	58.8	78.2	-19.4	161	184	H
2	5.674	40.85	PK	34.7	-19.1	0	56.45	68.2	-11.75	161	184	H

PK - Peak detector

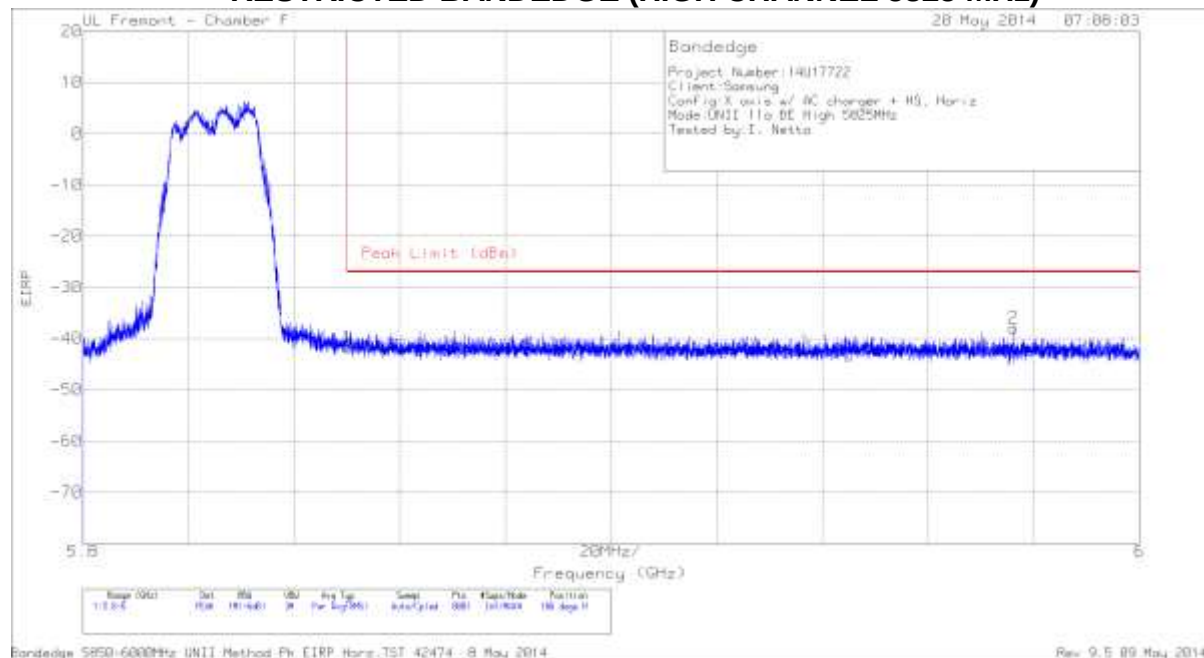


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	41.76	PK	34.8	-19.1	0	57.46	78.2	-20.74	133	284	V
2	5.69	40.68	PK	34.8	-19.3	0	56.18	68.2	-12.02	133	284	V

PK - Peak detector

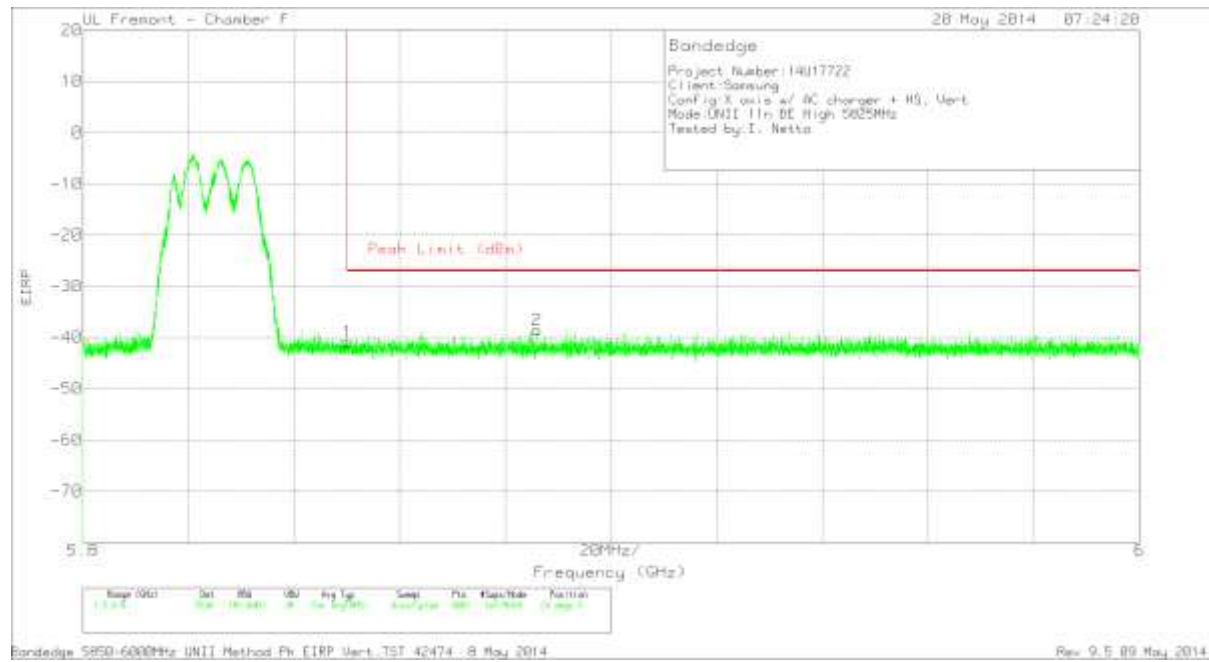
RESTRICTED BANDEDGE (HIGH CHANNEL 5825 MHz)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cb/ Filt/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-69.52	PK	35	-19	11.8	0	-41.72	-27	-14.72	106	347	H
2	5.976	-66.21	PK	35.3	-18.8	11.8	0	-37.91	-27	-10.91	106	347	H

PK - Peak detector



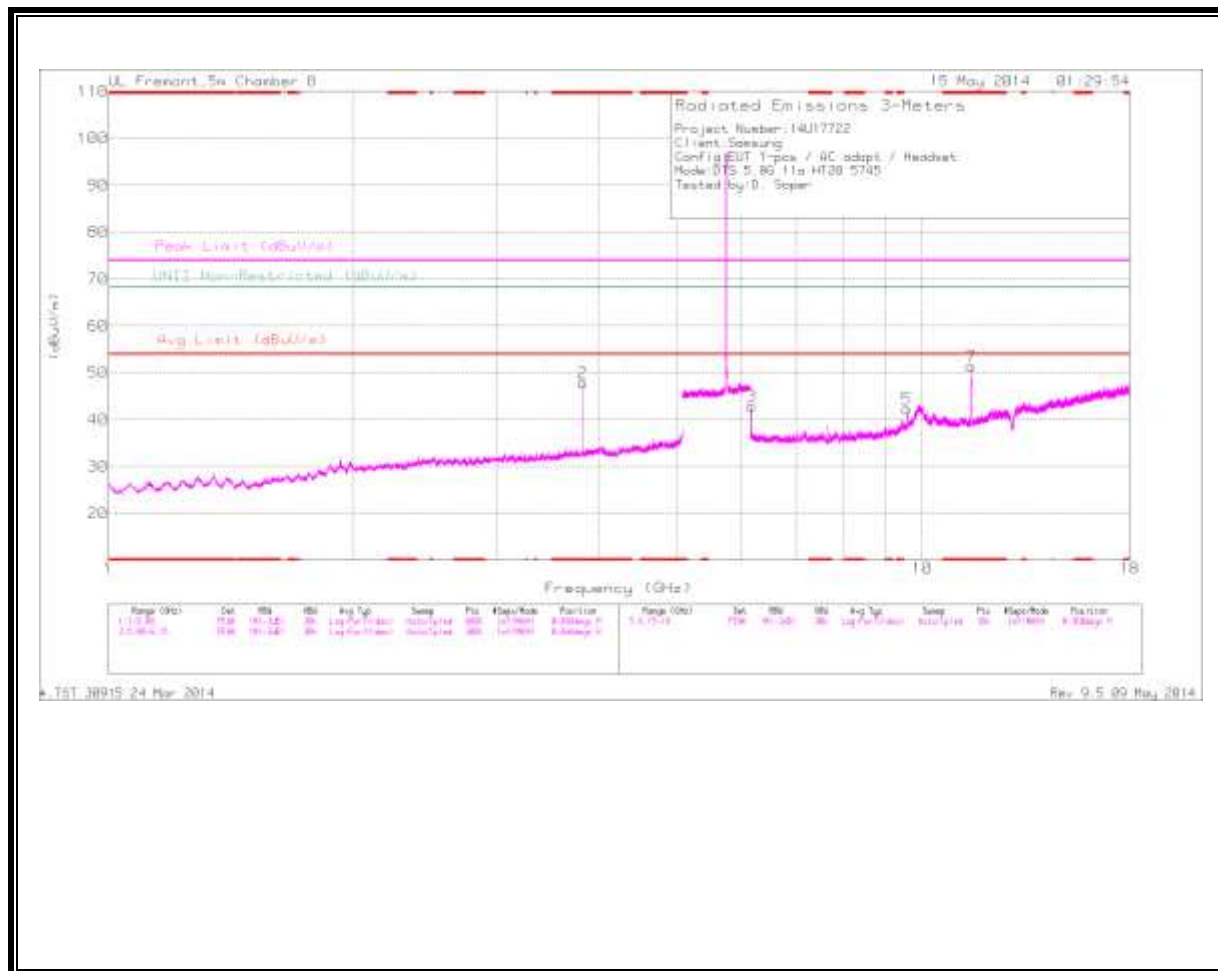
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT120 (dB/m)	Amp/Cb/ Filt/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-68.65	PK	35	-19	11.8	0	-40.85	-27	-13.85	24	211	V
2	5.886	-66.27	PK	35.1	-19.2	11.8	0	-38.57	-27	-11.57	24	211	V

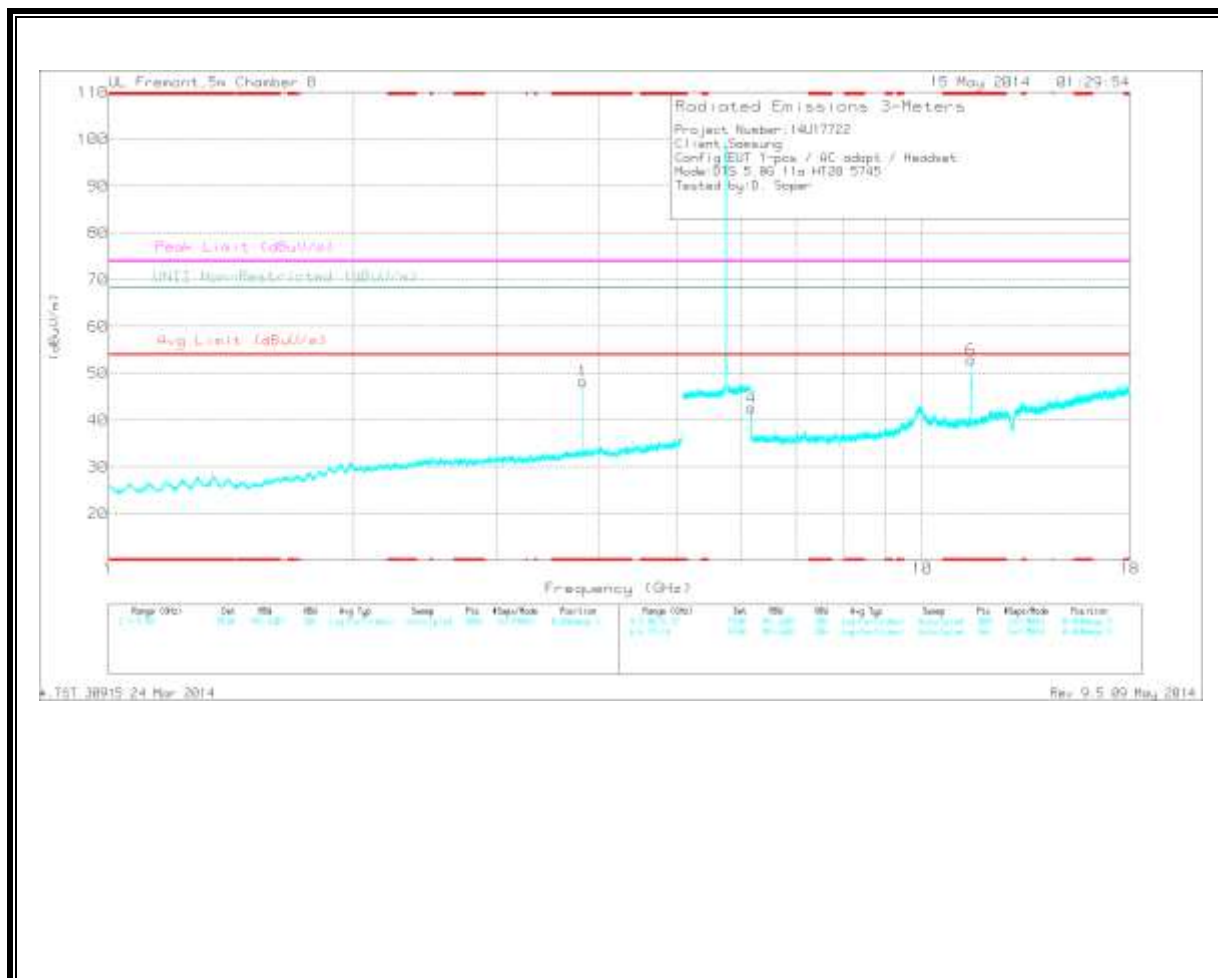
PK - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW 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.



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

Trace Markers

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
2	* 3.83	45.29	PK	33.7	-31.2	0	47.79	-	-	74	-26.21	-	-	0-360	99	H
1	* 3.83	45.71	PK	33.7	-31.2	0	48.21	-	-	74	-25.79	-	-	0-360	202	V
7	* 11.489	35.67	PK	38	-22.3	0	51.37	-	-	74	-22.63	-	-	0-360	99	H
6	* 11.49	37.26	PK	38	-22.3	0	52.96	-	-	74	-21.04	-	-	0-360	202	V
4	6.165	35.75	PK	35.4	-28.5	0	42.65	-	-	-	-	68.2	-25.55	0-360	202	V
3	6.174	35.66	PK	35.4	-28.1	0	42.96	-	-	-	-	68.2	-25.24	0-360	99	H
5	9.582	30.07	PK	36.7	-24.5	0	42.27	-	-	-	-	68.2	-25.93	0-360	99	H

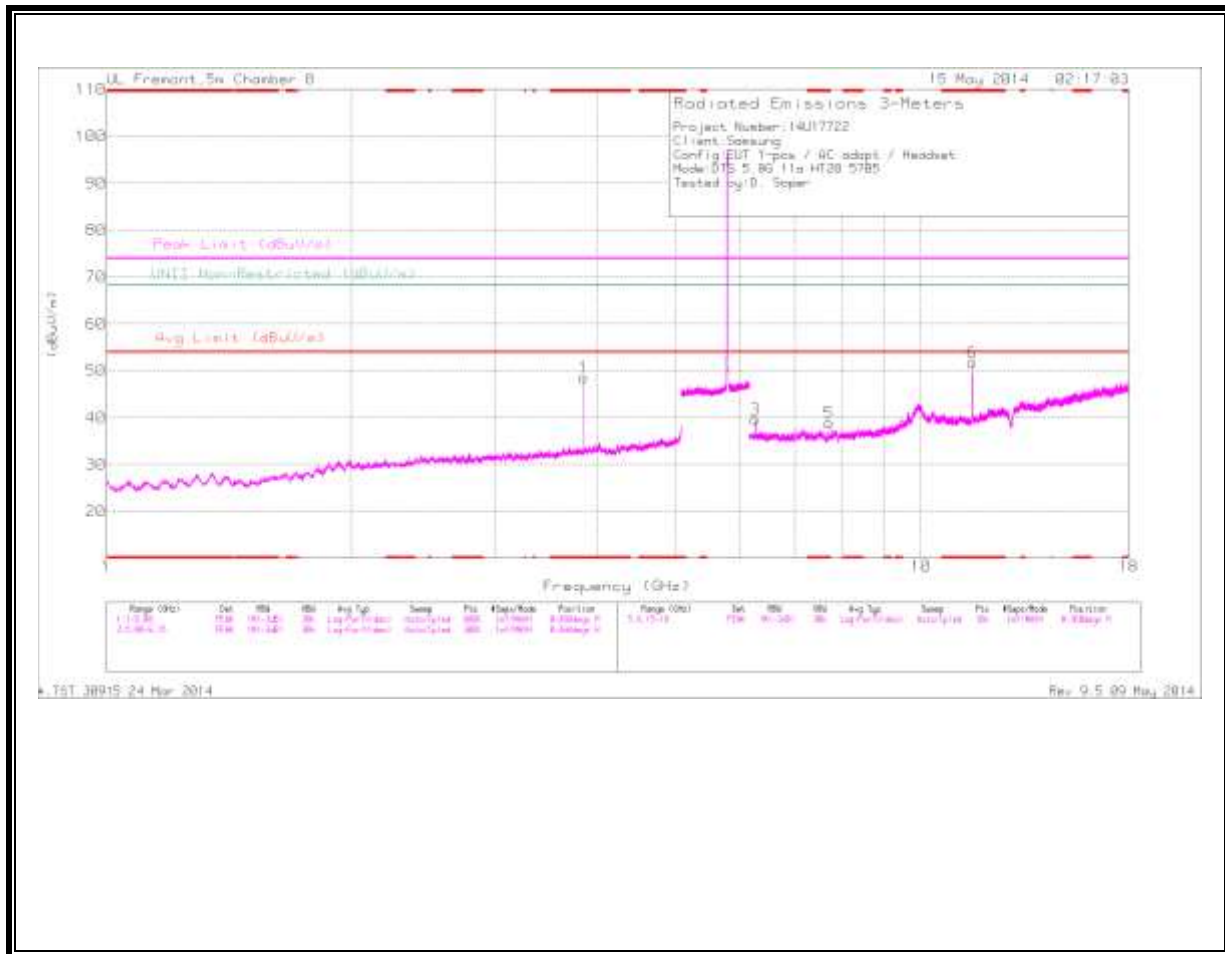
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Radiated Emissions

Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Ampl/Cbl/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- Restrict ed (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.83	49.3	PK1	33.7	-31.2	0	51.8	-	-	74	-22.2	-	-	14	145	H
* 3.83	45.68	AD1	33.7	-31.2	.3	48.58	54	-5.42	-	-	-	-	14	145	H
* 11.489	48.22	PK1	38	-22.3	0	63.92	-	-	74	-10.08	-	-	192	109	H
* 11.49	35.78	AD1	38	-22.3	.3	51.88	54	-2.12	-	-	-	-	192	109	H
* 11.489	49.83	PK1	38	-22.3	0	65.53	-	-	74	-8.47	-	-	302	223	V
* 11.491	36.84	AD1	38	-22.3	.3	52.94	54	-1.06	-	-	-	-	302	223	V
6.174	39.86	PK1	35.4	-28.1	0	47.16	-	-	-	-	68.2	-21.04	83	100	H
6.174	28.74	AD1	35.4	-28.1	.3	36.44	-	-	-	-	-	-	83	100	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.

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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Ampl/Cbl/Filt/Pad (dB)	DC Corr (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
1	* 3.857	46.32	PK	33.7	-31.4	0	48.62	-	-	74	-25.38	-	-	0-360	99	H
2	* 3.857	46.78	PK	33.7	-31.4	0	49.08	-	-	74	-24.92	-	-	0-360	202	V
5	* 7.713	30.63	PK	35.7	-27.4	0	38.93	-	-	74	-35.07	-	-	0-360	99	H
6	* 11.57	35.49	PK	38.1	-21.9	0	51.69	-	-	74	-22.31	-	-	0-360	202	H
7	* 11.566	36.05	PK	38.1	-21.9	0	52.25	-	-	74	-21.75	-	-	0-360	202	V
3	6.266	33.14	PK	35.5	-29	0	39.64	-	-	-	-	68.2	-28.56	0-360	202	H
4	6.271	32.52	PK	35.5	-29.1	0	38.92	-	-	-	-	68.2	-29.28	0-360	202	V

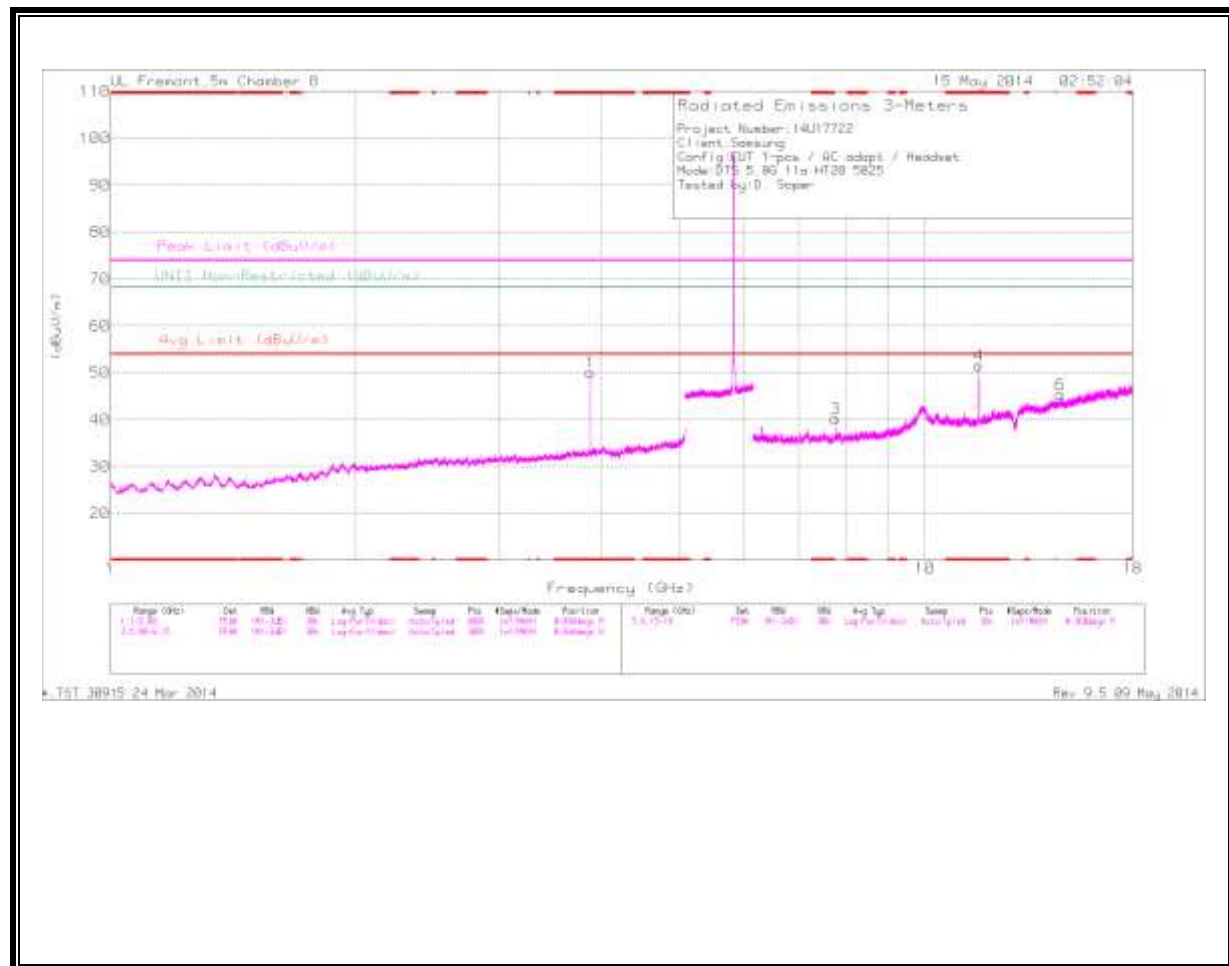
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Ampl/Cbl/Filt/Pad (dB)	DC Corr (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
* 3.857	49.79	PK1	33.7	-31.4	0	52.09	-	-	74	-21.91	-	-	112	100	H
* 3.857	46.26	AD1	33.7	-31.4	.3	48.86	54	-5.14	-	-	-	-	112	100	H
* 3.857	50.14	PK1	33.7	-31.4	0	52.44	-	-	74	-21.56	-	-	82	185	V
* 3.857	47.04	AD1	33.7	-31.4	.3	49.64	54	-4.36	-	-	-	-	82	185	V
* 11.569	47.36	PK1	38.1	-21.9	0	63.56	-	-	74	-10.44	-	-	347	165	H
* 11.57	34.75	AD1	38.1	-21.9	.3	51.25	54	-2.75	-	-	-	-	347	165	H
* 11.566	47.39	PK1	38.1	-21.9	0	63.59	-	-	74	-10.41	-	-	168	212	V
* 11.566	35.62	AD1	38.1	-21.9	.3	52.12	54	-1.88	-	-	-	-	168	212	V

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



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Ampl/Cbl/Ftr/Pad (dB)	DC Corr (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
1	* 3.883	47.64	PK	33.8	-31.4	0	50.04	-	-	74	-23.96	-	-	0-360	99	H
2	* 3.883	46.43	PK	33.8	-31.4	0	48.83	-	-	74	-25.17	-	-	0-360	202	V
4	* 11.65	36.05	PK	38.1	-22.5	0	51.65	-	-	74	-22.35	-	-	0-360	99	H
5	* 11.646	36.99	PK	38.1	-22.5	0	52.59	-	-	74	-21.41	-	-	0-360	202	V
3	7.767	30.88	PK	35.7	-26.4	0	40.18	-	-	-	-	68.2	-28.02	0-360	99	H
6	14.664	25.44	PK	39.4	-19.5	0	45.34	-	-	-	-	68.2	-22.86	0-360	99	H

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

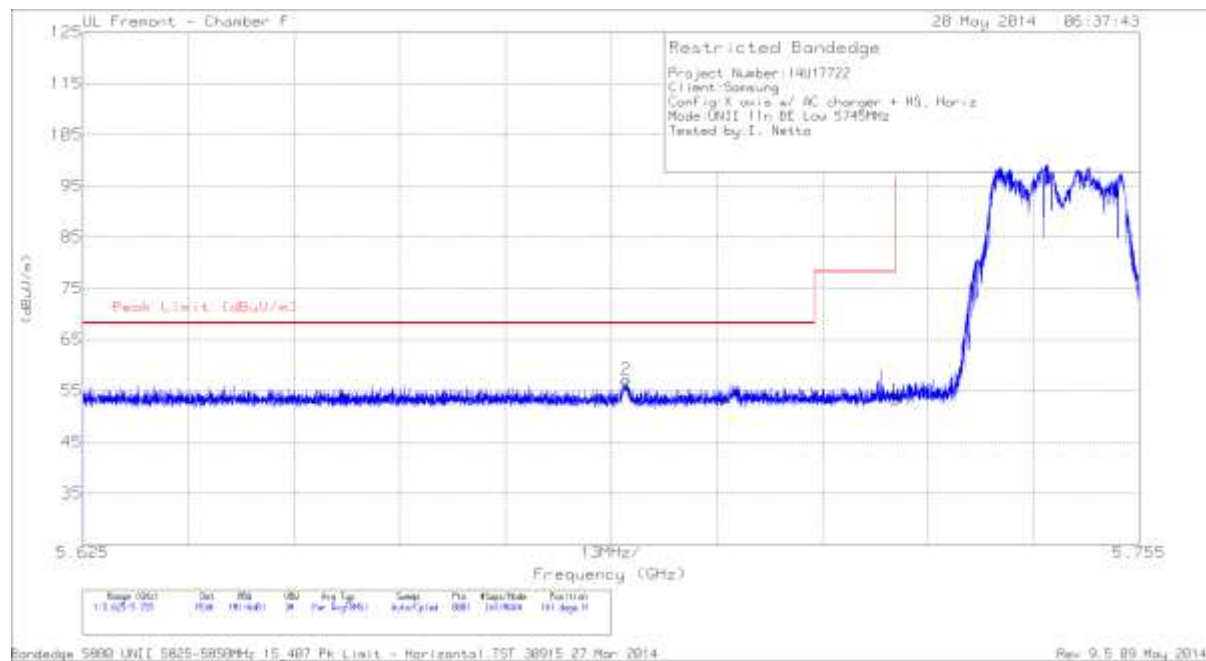
PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Ampl/Cbl/Ftr/Pad (dB)	DC Corr (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	51.15	PK1	33.8	-31.4	0	53.55	-	-	74	-20.45	-	-	12	164	H
* 3.883	48.1	AD1	33.8	-31.4	.3	50.8	54	-3.2	-	-	-	-	12	164	H
* 3.883	49.58	PK1	33.8	-31.4	0	51.98	-	-	74	-22.02	-	-	74	259	V
* 3.883	46.32	AD1	33.8	-31.4	.3	49.02	54	-4.98	-	-	-	-	74	259	V
* 11.649	48.89	PK1	38.1	-22.5	0	64.49	-	-	74	-9.51	-	-	337	115	H
* 11.65	35.8	AD1	38.1	-22.5	.3	51.7	54	-2.3	-	-	-	-	337	115	H
* 11.646	45.99	PK1	38.1	-22.5	0	61.59	-	-	74	-12.41	-	-	327	278	V
* 11.646	34.26	AD1	38.1	-22.5	.3	50.16	54	-3.84	-	-	-	-	327	278	V

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

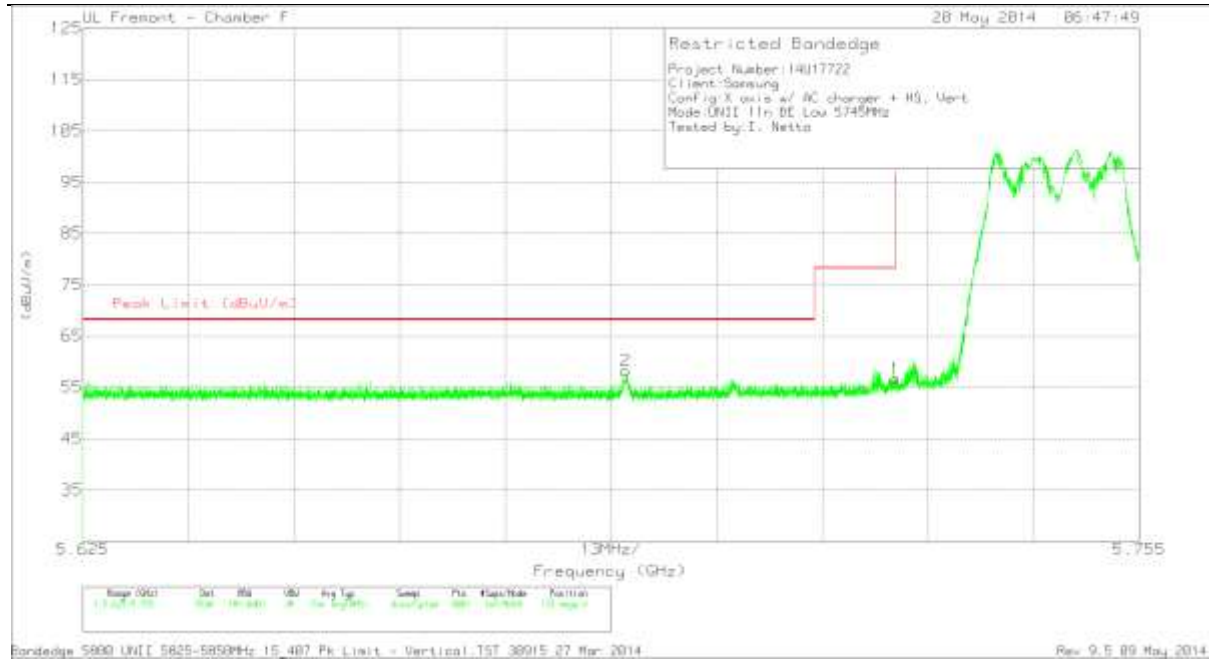
11.4.2. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.8 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL 5745 MHz)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	37.48	PK	34.8	-19.1	0	53.18	78.2	-25.02	161	184	H
2	5.692	41.68	PK	34.8	-19.3	0	57.18	68.2	-11.02	161	184	H

PK - Peak detector

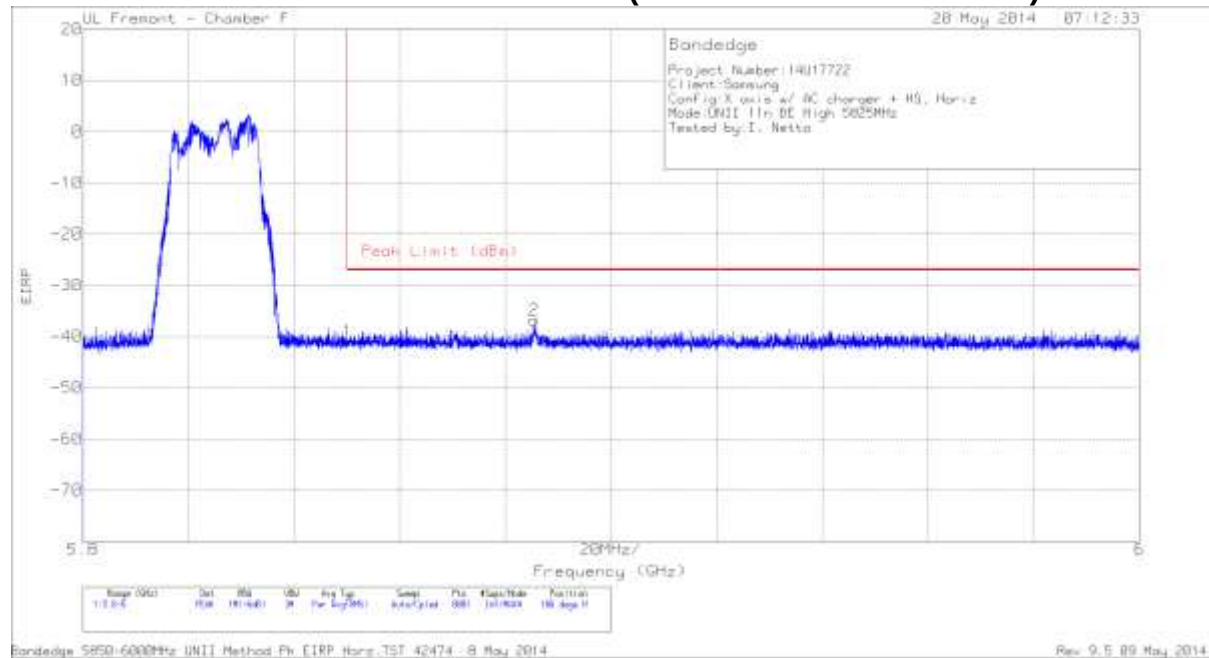


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	40.97	PK	34.8	-19.1	0	56.67	78.2	-21.53	133	284	V
2	5.692	42.76	PK	34.8	-19.3	0	58.26	68.2	-9.94	133	284	V

PK - Peak detector

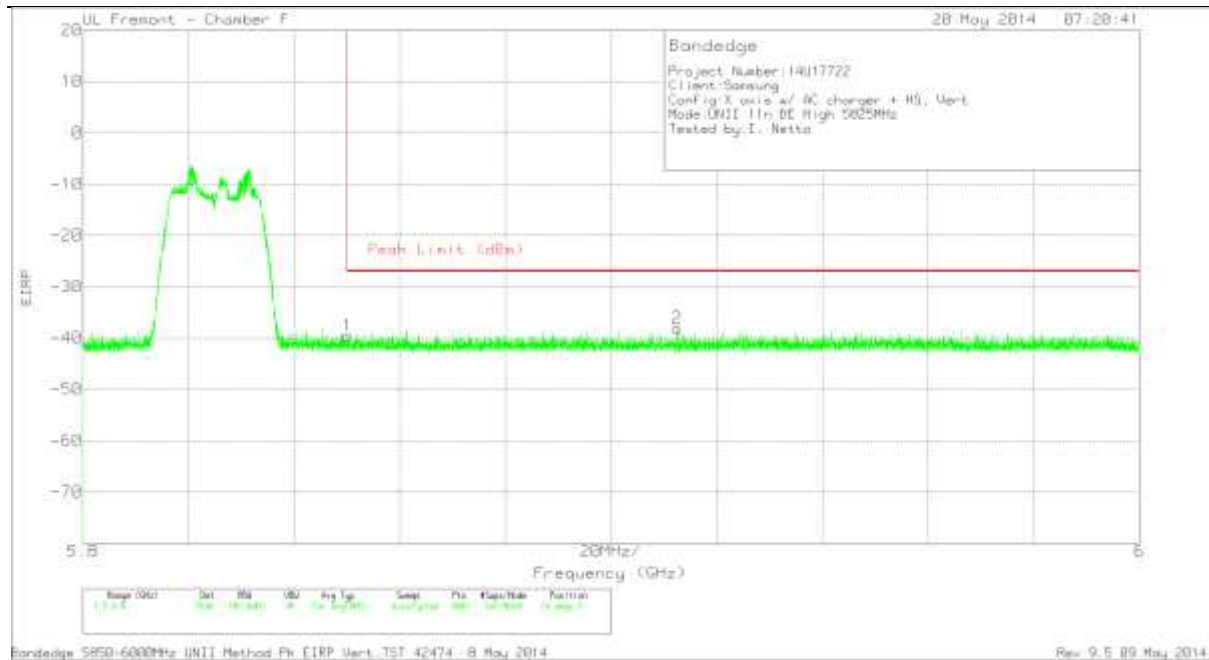
RESTRICTED BANDEDGE (HIGH CHANNEL 5825 MHz)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cb/ Filt/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-68.83	PK	35	-19	11.8	0	-41.03	-27	-14.03	106	347	H
2	5.885	-64.53	PK	35.1	-19.2	11.8	0	-36.83	-27	-9.83	106	347	H

PK - Peak detector



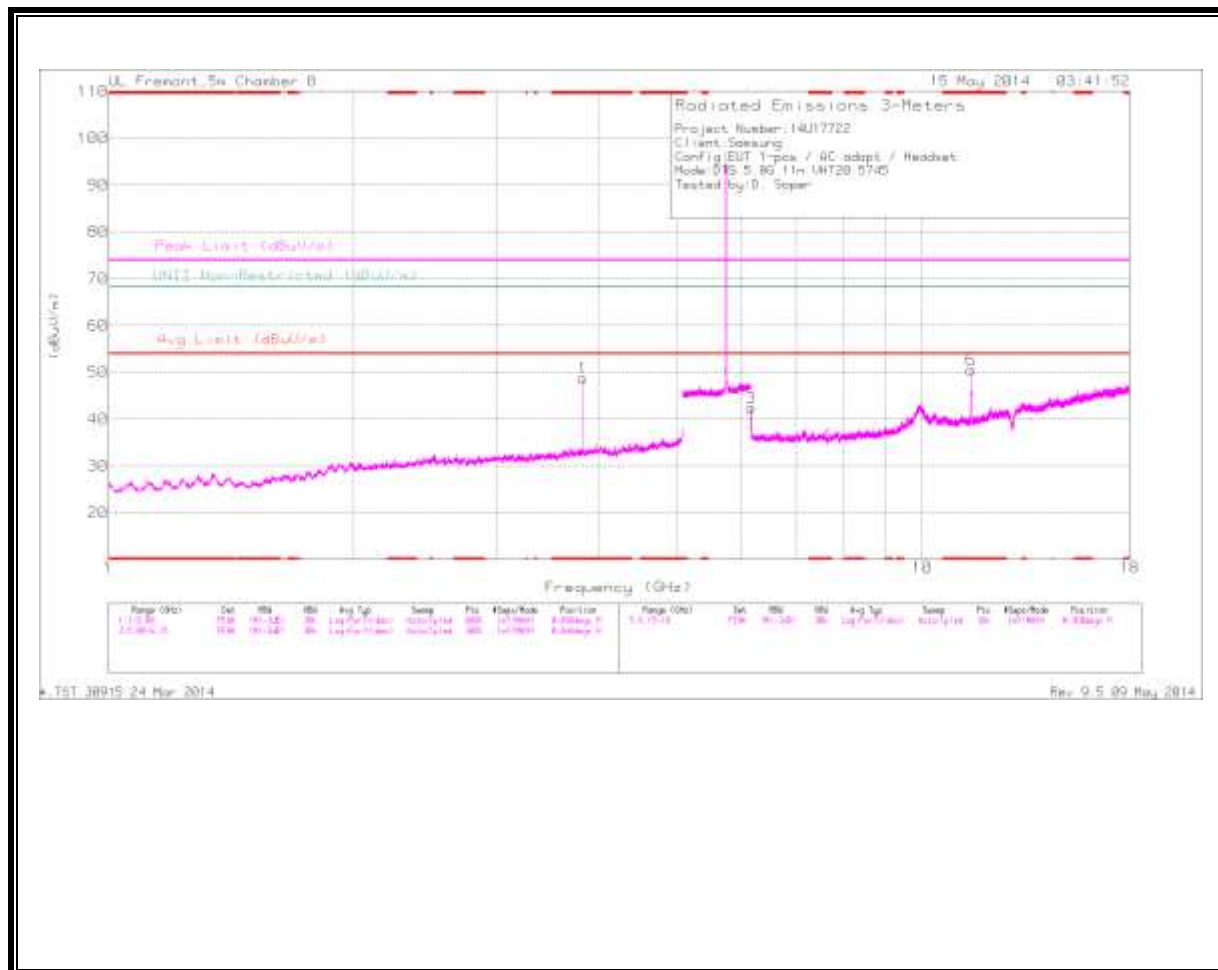
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cb/ Filt/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-67.3	PK	35	-19	11.8	0	-39.5	-27	-12.5	24	211	V
2	5.913	-66	PK	35.2	-19.1	11.8	0	-38.1	-27	-11.1	24	211	V

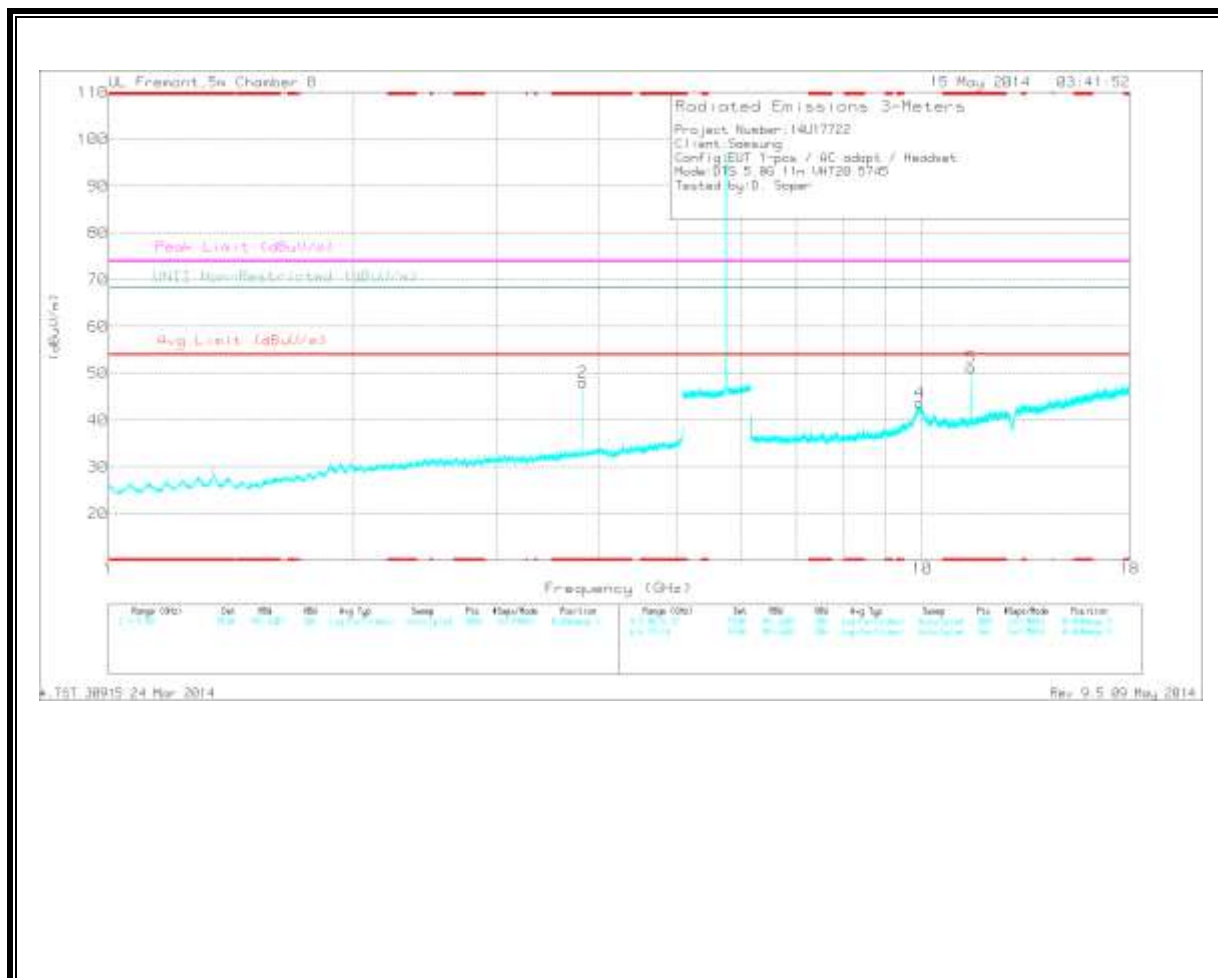
PK - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW 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.



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

Trace Markers

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	* 3.83	46.22	PK	33.7	-31.2	0	48.72	-	-	74	-25.28	-	-	0-360	99	H
2	* 3.83	45.65	PK	33.7	-31.2	0	48.15	-	-	74	-25.85	-	-	0-360	202	V
6	* 11.489	34.92	PK	38	-22.3	0	50.62	-	-	74	-23.38	-	-	0-360	202	H
5	* 11.488	35.58	PK	38	-22.3	0	51.28	-	-	74	-22.72	-	-	0-360	202	V
3	6.168	35.27	PK	35.4	-28.3	0	42.37	-	-	-	-	68.2	-25.83	0-360	202	H
4	9.923	30.73	PK	37	-24	0	43.73	-	-	-	-	68.2	-24.47	0-360	99	V

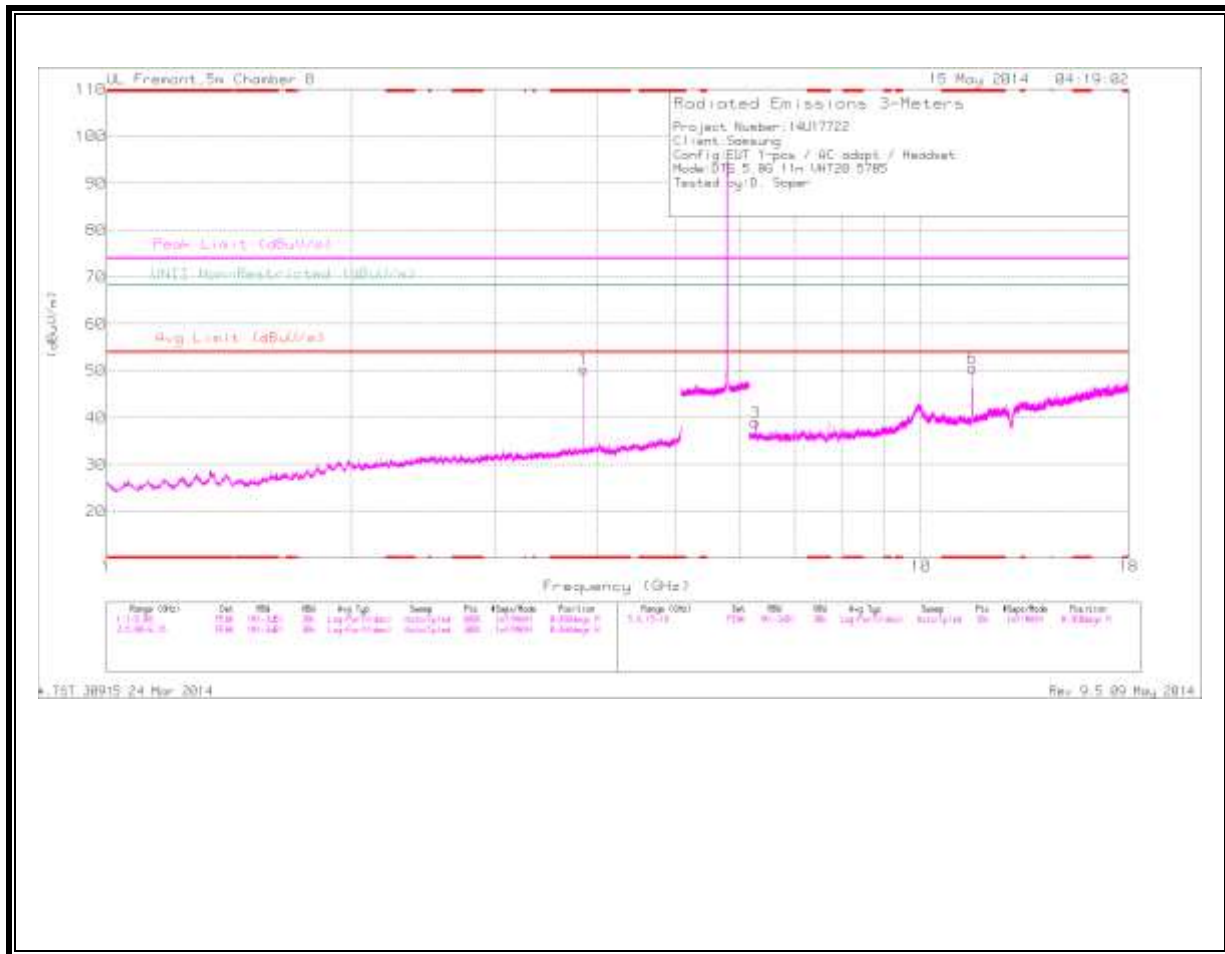
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Radiated Emissions

Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	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
* 3.83	49.86	PK1	33.7	-31.2	0	52.36	-	-	74	-21.64	-	-	105	101	H
* 3.83	45.87	AD1	33.7	-31.2	.3	48.67	54	-5.33	-	-	-	-	105	101	H
* 3.83	49.34	PK1	33.7	-31.2	0	51.84	-	-	74	-22.16	-	-	62	208	V
* 3.83	45.65	AD1	33.7	-31.2	.3	48.45	54	-5.55	-	-	-	-	62	208	V
* 11.489	44.4	PK1	38	-22.3	0	60.1	-	-	74	-13.9	-	-	34	248	H
* 11.489	31.25	AD1	38	-22.3	.3	47.25	54	-6.75	-	-	-	-	34	248	H
* 11.487	46.6	PK1	38	-22.3	0	62.3	-	-	74	-11.7	-	-	318	205	V
* 11.489	33.7	AD1	38	-22.3	.3	49.7	54	-4.3	-	-	-	-	318	205	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.

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

Trace Markers

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	* 3.857	48.01	PK	33.7	-31.4	0	50.31	-	-	74	-23.69	-	-	0-360	99	H
2	* 3.857	45.99	PK	33.7	-31.4	0	48.29	-	-	74	-25.71	-	-	0-360	202	V
6	* 11.57	34.36	PK	38.1	-21.9	0	50.56	-	-	74	-23.44	-	-	0-360	99	H
5	*	33.8	PK	38.1	-21.9	0	50	-	-	74	-24	-	-	0-360	99	V
	11.567															
4	6.26	31.53	PK	35.5	-28.9	0	38.13	-	-	-	-	68.2	-30.07	0-360	202	V
3	6.263	32.51	PK	35.5	-29	0	39.01	-	-	-	-	68.2	-29.19	0-360	99	H

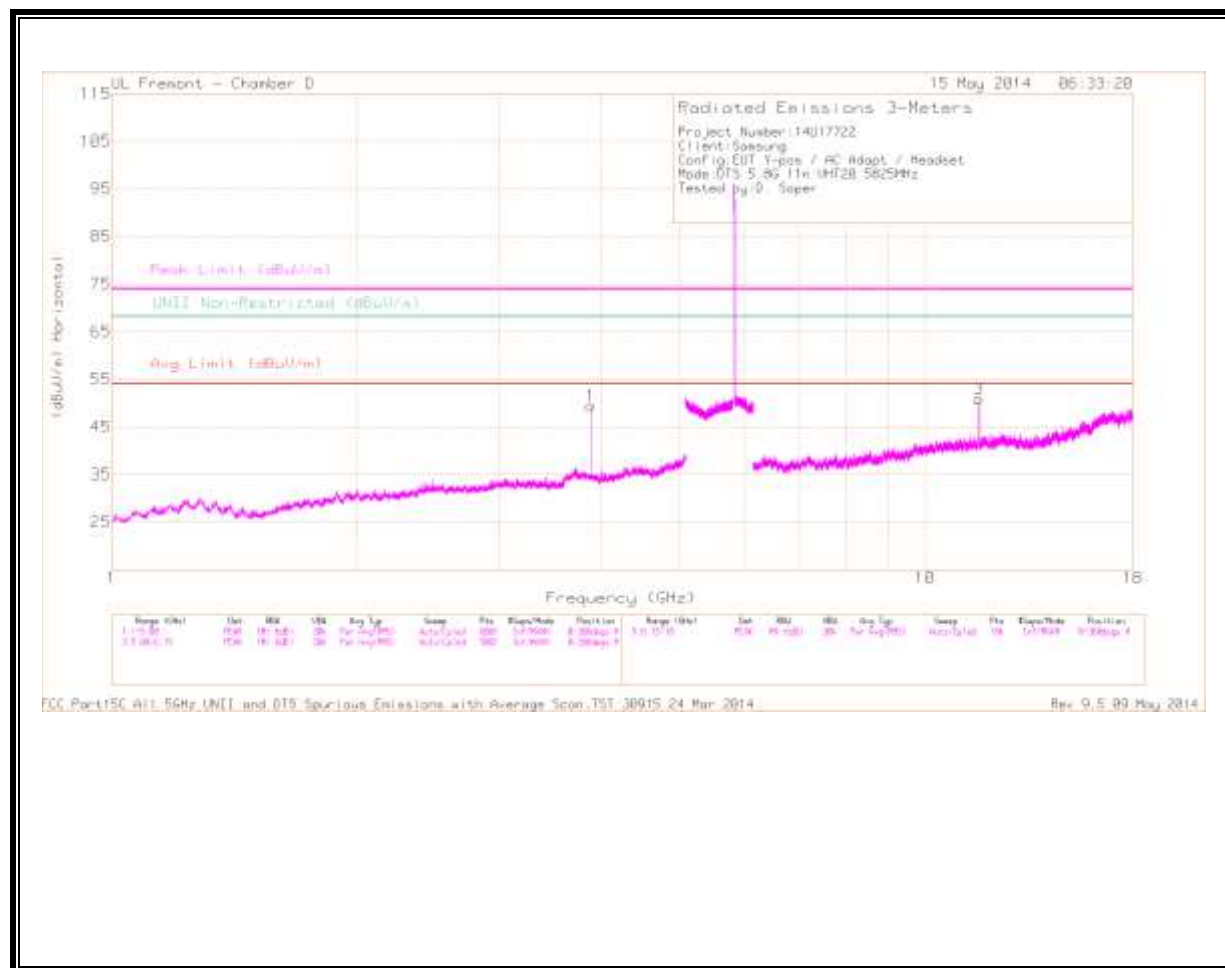
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

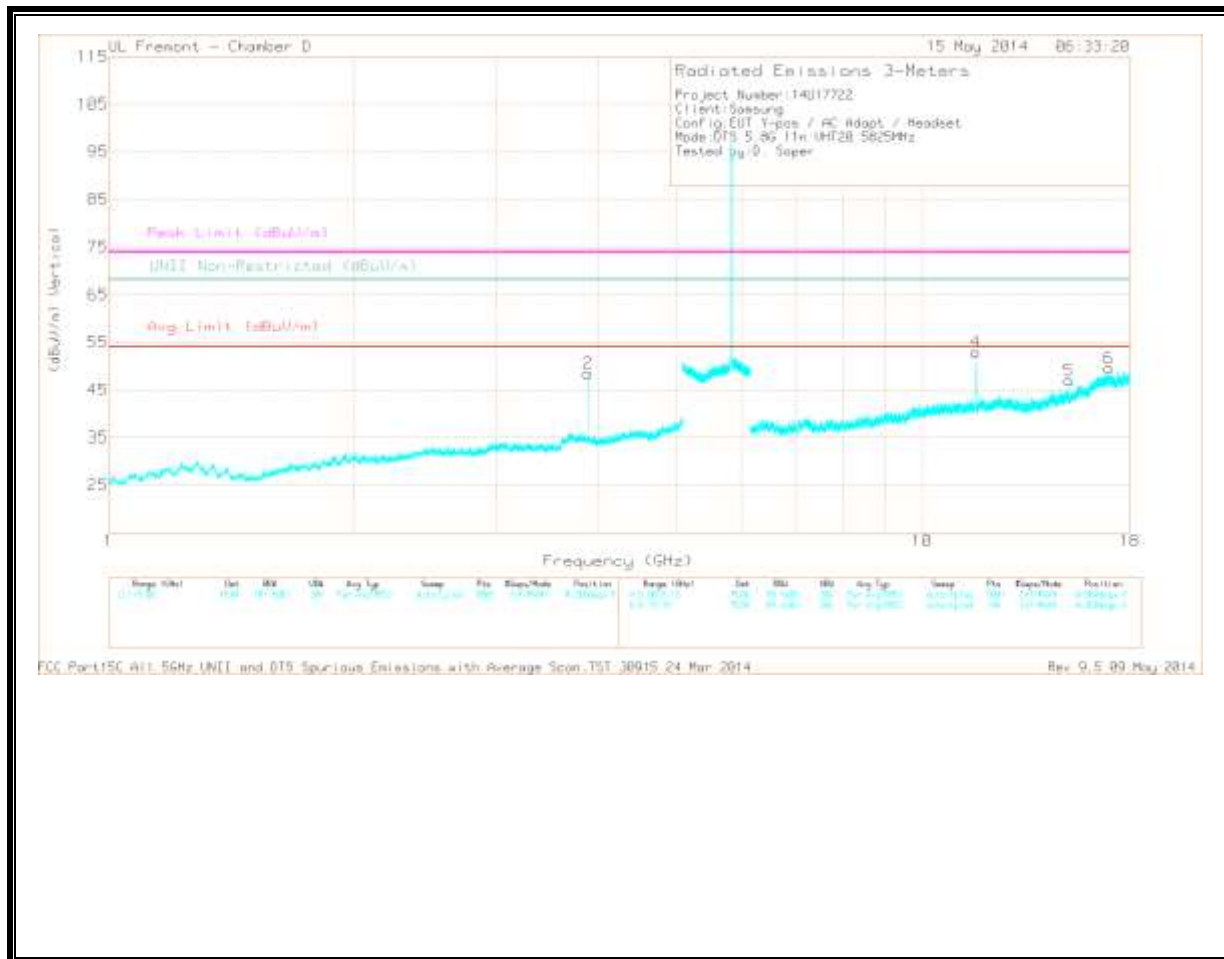
Radiated Emissions

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- Restrict ed (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.857	47.89	PK1	33.7	-31.4	0	50.19	-	-	74	-23.81	-	-	360	100	H
* 3.857	43.98	AD1	33.7	-31.4	.3	46.58	54	-7.42	-	-	-	-	360	100	H
* 3.857	50.03	PK1	33.7	-31.4	0	52.33	-	-	74	-21.67	-	-	71	237	V
* 3.857	46.6	AD1	33.7	-31.4	.3	49.2	54	-4.8	-	-	-	-	71	237	V
* 11.563	45.3	PK1	38.1	-22	0	61.4	-	-	74	-12.6	-	-	184	102	H
* 11.569	32.55	AD1	38.1	-21.9	.3	49.05	54	-4.95	-	-	-	-	184	102	H
* 11.567	42.96	PK1	38.1	-21.9	0	59.16	-	-	74	-14.84	-	-	323	270	V
* 11.569	30.51	AD1	38.1	-21.9	.3	47.01	54	-6.99	-	-	-	-	323	270	V
* 11.569	46.34	PK1	38.1	-21.9	0	62.54	-	-	74	-11.46	-	-	326	170	V
* 11.569	33.34	AD1	38.1	-21.9	.3	49.84	54	-4.16	-	-	-	-	326	170	V

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



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



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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Ampl/Cbl/Ftr/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
1	* 3.883	45.24	PK	32.8	-28.6	49.44	-	-	74	-24.56	-	-	0-360	100	H
2	* 3.883	44.3	PK	32.8	-28.6	48.5	-	-	74	-25.5	-	-	0-360	201	V
3	* 11.647	35.05	PK	37.8	-22	50.85	-	-	74	-23.15	-	-	0-360	100	H
4	* 11.649	37.14	PK	37.8	-22	52.94	-	-	74	-21.06	-	-	0-360	201	V
5	15.154	29.9	PK	39.1	-22	47	-	-	-	-	68.2	-21.2	0-360	100	V
6	16.974	26.9	PK	41.7	-19	49.6	-	-	-	-	68.2	-18.6	0-360	100	V

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

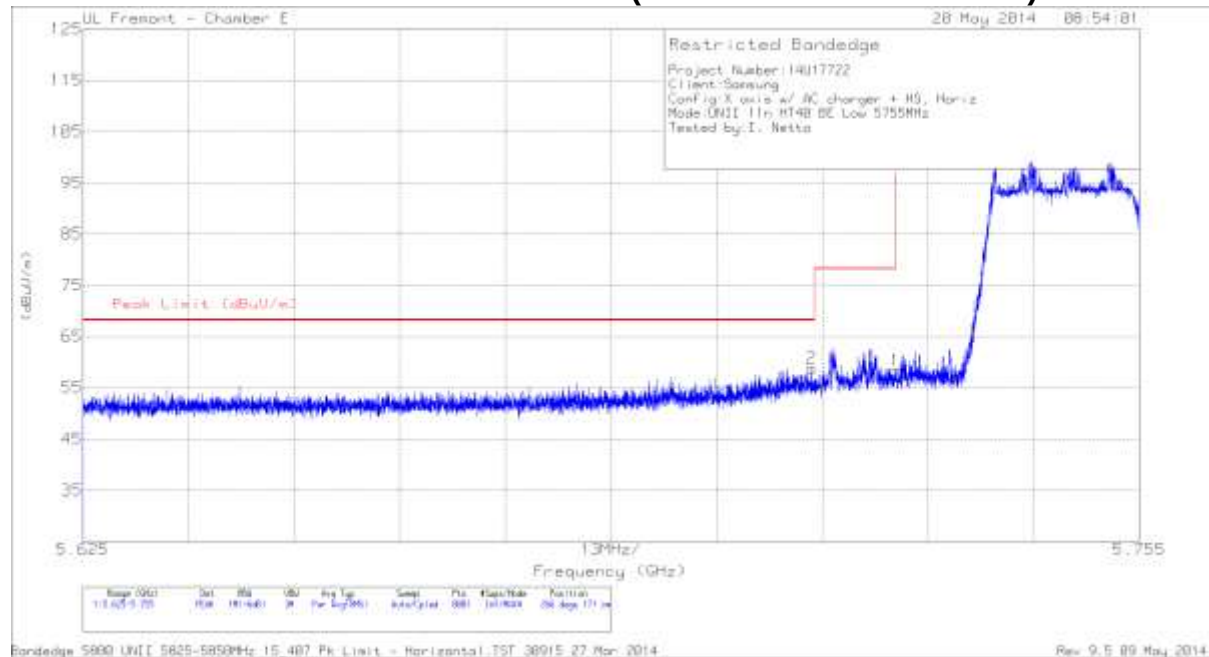
PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Ampl/Cbl/Ftr/Pad (dB)	DC Corr (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	48.23	PK1	32.8	-28.6	0	52.43	-	-	74	-21.57	-	-	153	100	H
* 3.883	45.07	AD1	32.8	-28.6	.3	49.27	54	-4.73	-	-	-	-	153	100	H
* 3.883	48.13	PK1	32.8	-28.6	0	52.33	-	-	74	-21.67	-	-	213	230	V
* 3.883	44.37	AD1	32.8	-28.6	.3	48.57	54	-5.43	-	-	-	-	213	230	V
* 11.645	43.99	PK1	37.8	-22	0	59.79	-	-	74	-14.21	-	-	103	102	H
* 11.649	31.34	AD1	37.8	-22	.3	47.14	54	-6.86	-	-	-	-	103	102	H
* 11.651	45.11	PK1	37.8	-22.1	0	60.81	-	-	74	-13.19	-	-	78	247	V
* 11.649	33.52	AD1	37.8	-22	.3	49.32	54	-4.68	-	-	-	-	78	247	V

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

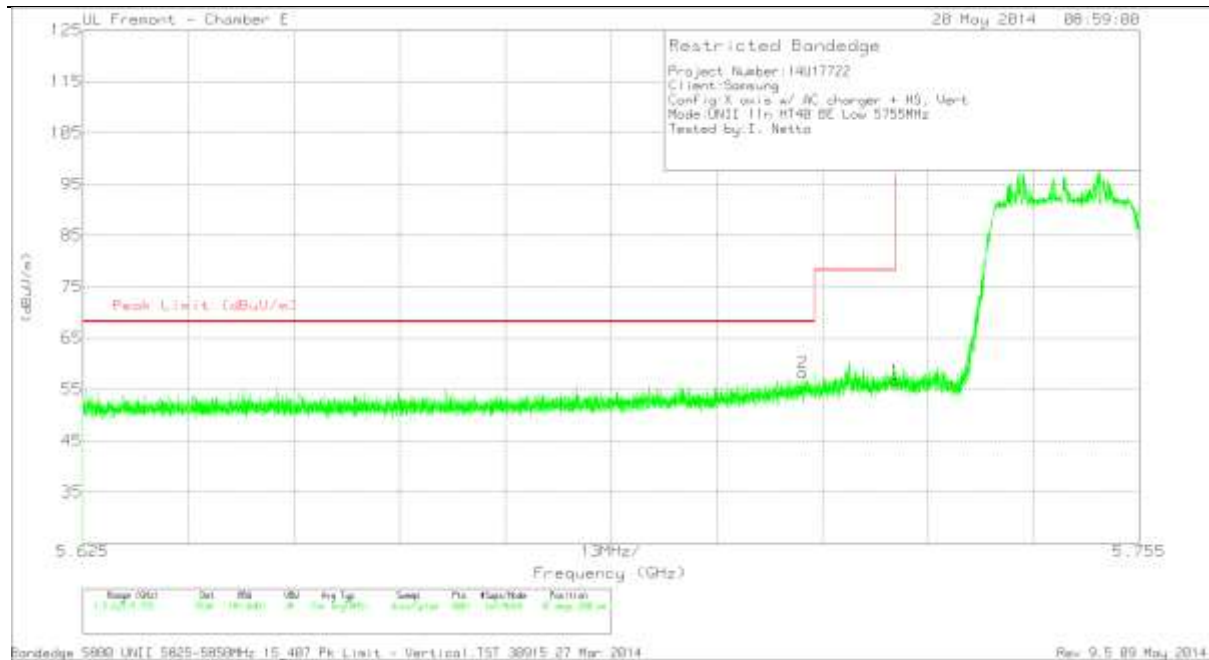
11.4.3. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.8 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL 5745 MHz)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.715	44.98	PK	34.8	-21	0	58.78	68.2	-9.42	266	171	H
1	5.725	44.39	PK	34.8	-20.8	0	58.39	78.2	-19.81	266	171	H

PK - Peak detector

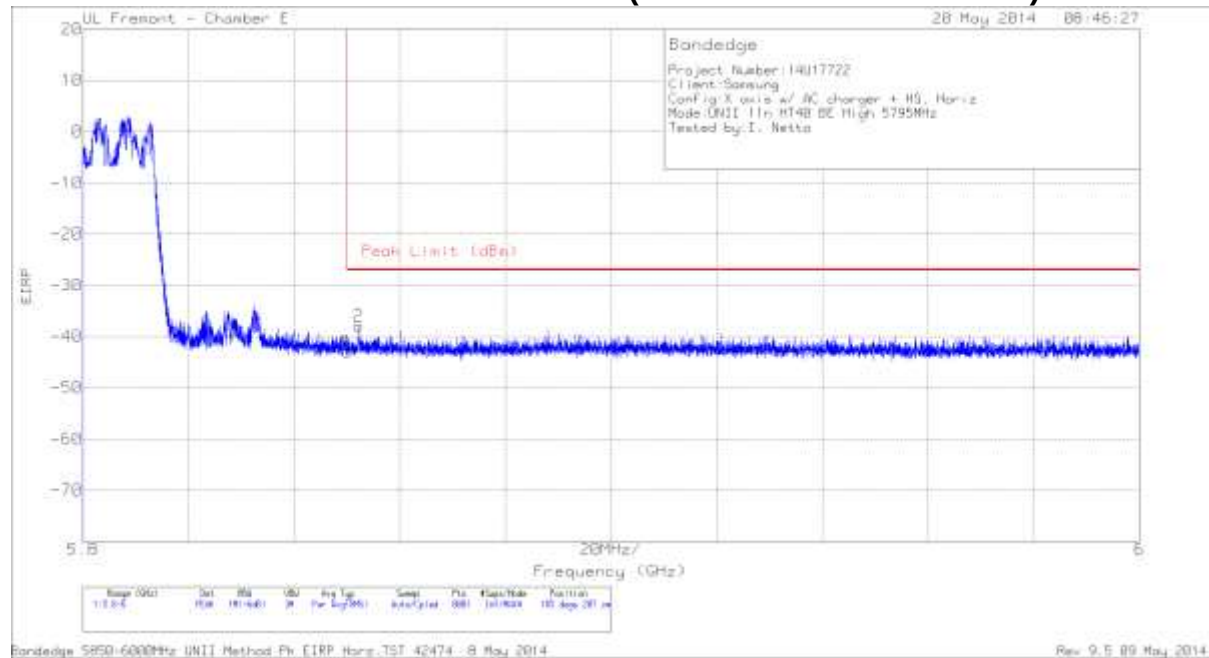


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.714	44.42	PK	34.8	-21	0	58.22	68.2	-9.98	45	200	V
1	5.725	42.62	PK	34.8	-20.8	0	56.62	78.2	-21.58	45	200	V

PK - Peak detector

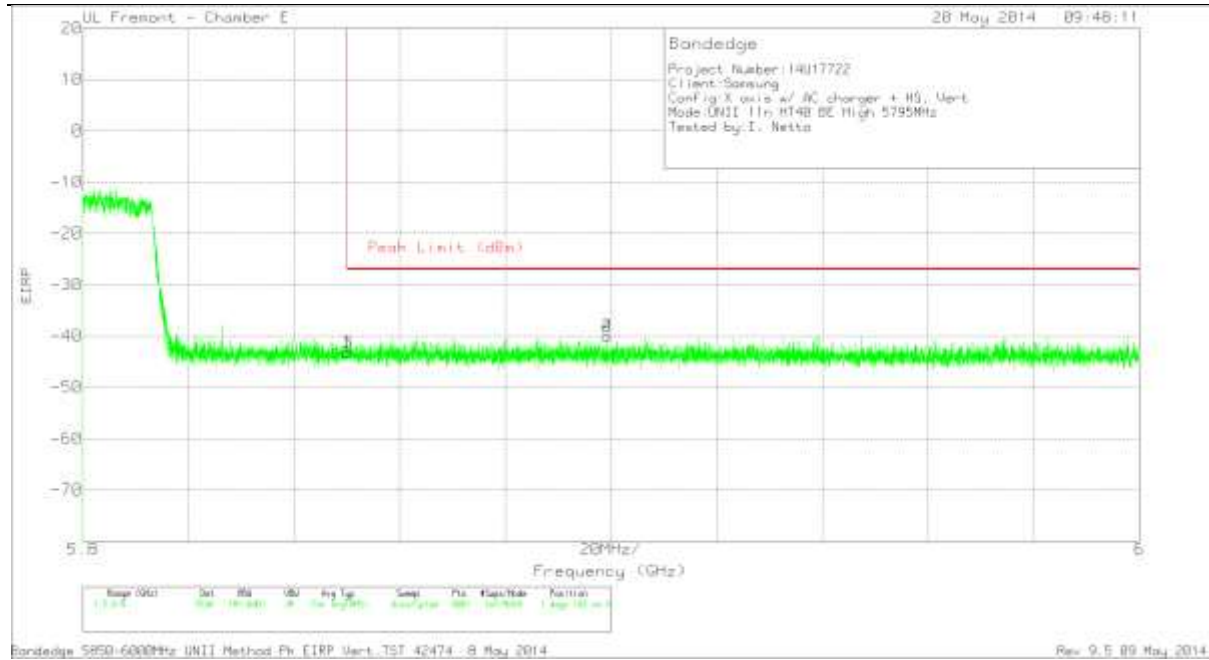
RESTRICTED BANDEDGE (HIGH CHANNEL 5795 MHz)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cb/ Filt/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-69.43	PK	35	-20.3	11.8	0	-42.93	-27	-15.93	185	207	H
2	5.852	-64.48	PK	35	-20.3	11.8	0	-37.98	-27	-10.98	185	207	H

PK - Peak detector



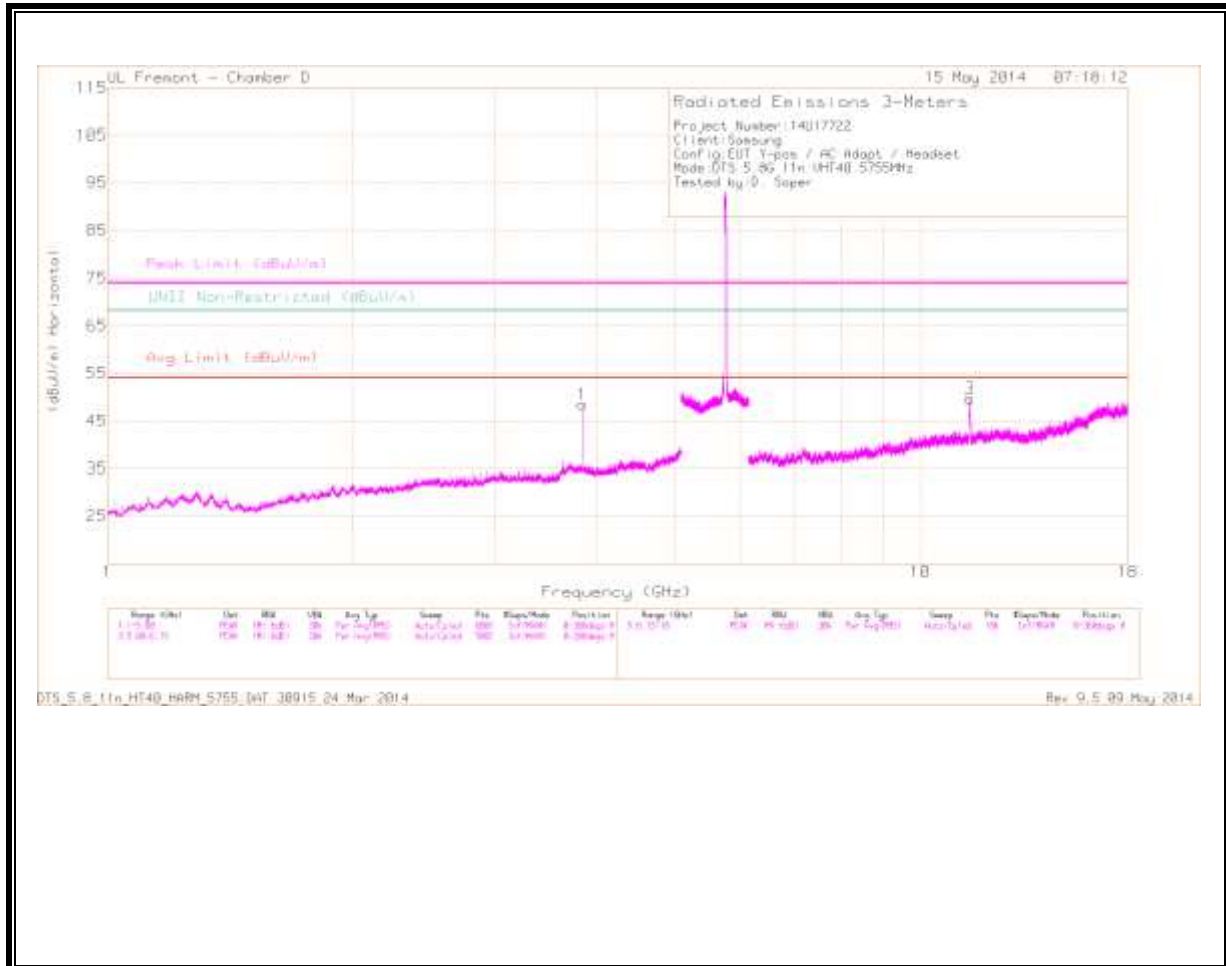
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dBm)	Amp/Cb/ Filt/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-69.67	PK	35	-20.3	11.8	0	-43.17	-27	-16.17	1	102	V
3	5.85	-69.67	PK	35	-20.3	11.8	0	-43.17	-27	-16.17	1	102	V
2	5.899	-66.63	PK	35.1	-20.3	11.8	0	-40.03	-27	-13.03	1	102	V
4	5.899	-66.63	PK	35.1	-20.3	11.8	0	-40.03	-27	-13.03	1	102	V

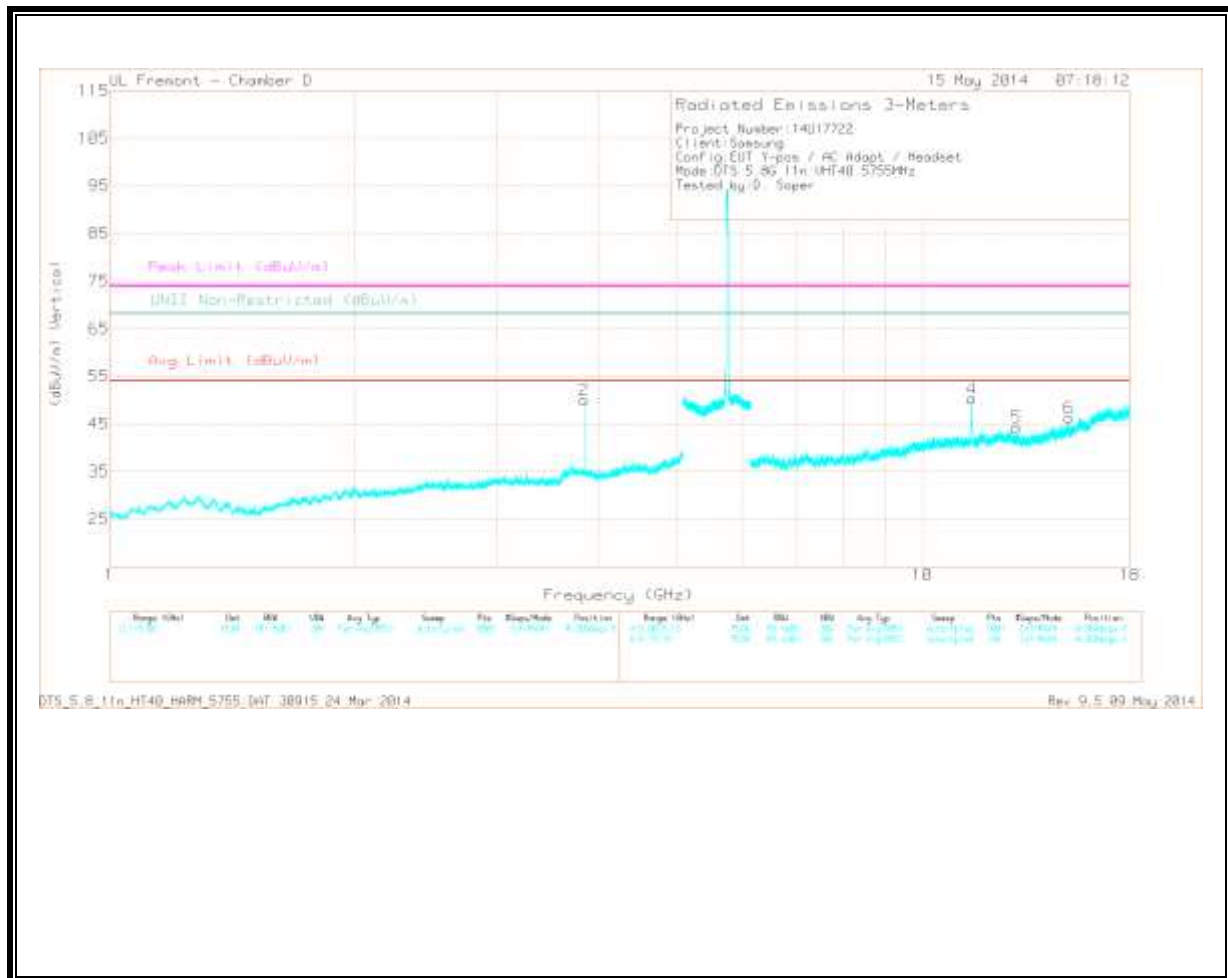
PK - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW 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.



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

Trace Markers

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T712 (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	* 3.837	44.24	PK	32.8	-28.5	0	48.54	-	-	74	-25.46	-	-	0-360	102	H
2	* 3.837	45.77	PK	32.8	-28.5	0	50.07	-	-	74	-23.93	-	-	0-360	201	V
3	* 11.511	33.82	PK	37.7	-21.8	0	49.72	-	-	74	-24.28	-	-	0-360	100	H
4	* 11.511	34.41	PK	37.7	-21.8	0	50.31	-	-	74	-23.69	-	-	0-360	201	V
5	13.071	28.12	PK	38.3	-22.1	0	44.32	-	-	-	-	68.2	-23.88	0-360	201	V
6	15.149	28.98	PK	39.1	-21.8	0	46.28	-	-	-	-	68.2	-21.92	0-360	201	V

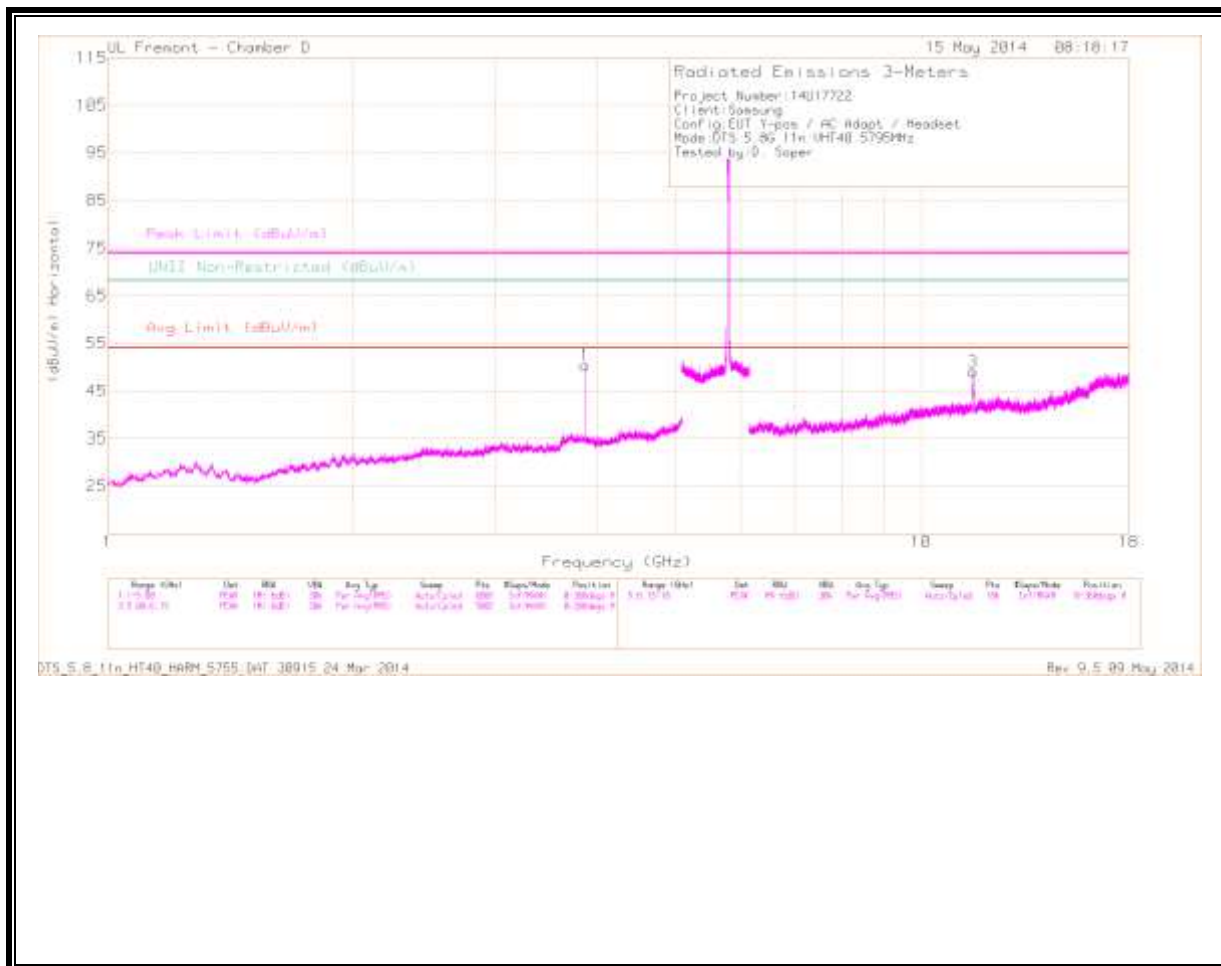
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Radiated Emissions

Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T712 (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
* 3.837	46.54	PK1	32.8	-28.5	0	50.84	-	-	74	-23.16	-	-	199	186	V
* 3.837	42.15	AD1	32.8	-28.5	1	47.15	54	-6.85	-	-	-	-	199	186	V
* 3.837	42.47	PK1	32.8	-28.5	0	46.77	-	-	74	-27.23	-	-	46	202	V
* 3.837	34.23	AD1	32.8	-28.5	1	39.23	54	-14.77	-	-	-	-	46	202	V
* 11.511	40.24	PK1	37.7	-21.8	0	56.14	-	-	74	-17.86	-	-	334	100	H
* 11.511	28.54	AD1	37.7	-21.8	1	45.14	54	-8.86	-	-	-	-	334	100	H
* 11.511	43.46	PK1	37.7	-21.8	0	59.36	-	-	74	-14.64	-	-	46	176	V
* 11.511	31.86	AD1	37.7	-21.8	1	48.46	54	-5.54	-	-	-	-	46	176	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.



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

Trace Markers

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T712 (dBm)	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	* 3.863	46.17	PK	32.8	-28.6	0	50.37	-	-	74	-23.63	-	-	0-360	100	H
2	* 3.863	43.32	PK	32.8	-28.6	0	47.52	-	-	74	-26.48	-	-	0-360	201	V
3	* 11.59	33.16	PK	37.8	-21.9	0	49.06	-	-	74	-24.94	-	-	0-360	201	H
4	* 11.591	33.65	PK	37.8	-21.9	0	49.55	-	-	74	-24.45	-	-	0-360	201	V
6	* 15.653	27.68	PK	39.9	-21.4	0	46.18	-	-	74	-27.82	-	-	0-360	100	V
5	14.436	28.28	PK	38.6	-22.4	0	44.48	-	-	-	-	68.2	-23.72	0-360	100	V

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

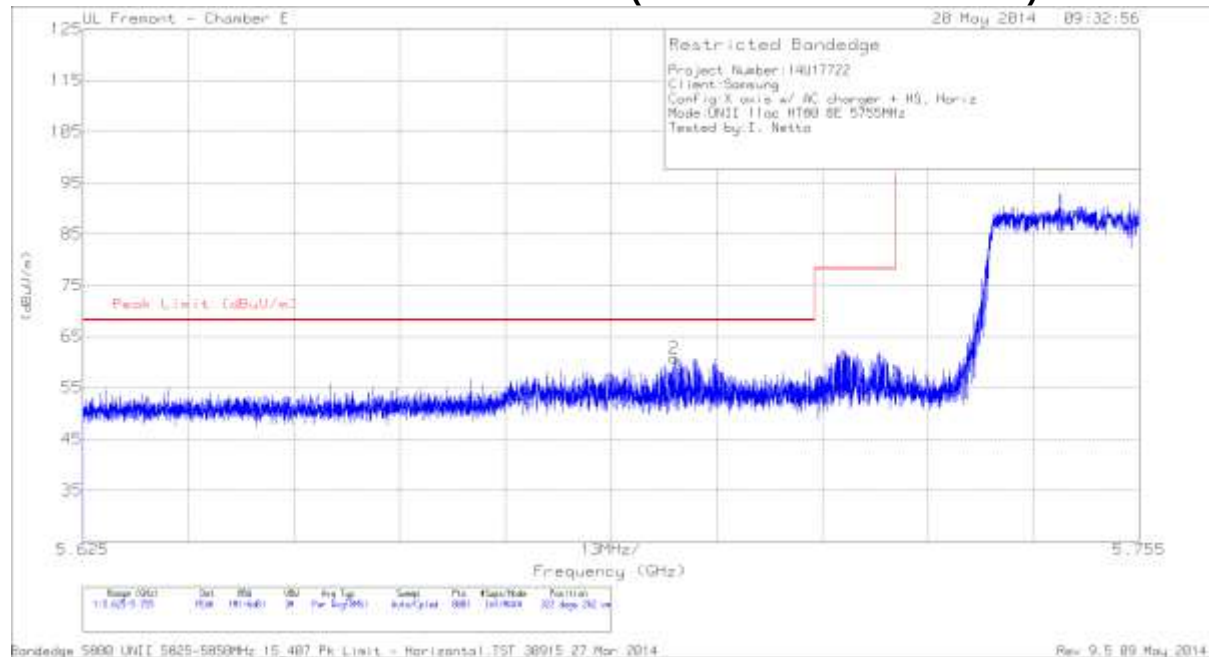
PK - Peak detector

Radiated Emissions

Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T712 (dBm)	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
* 3.863	42.77	PK1	32.8	-28.6	0	46.97	-	-	74	-27.03	-	-	0	100	H
* 3.863	36.17	AD1	32.8	-28.6	1	41.07	54	-12.93	-	-	-	-	0	100	H
* 3.863	39.24	PK1	32.8	-28.6	0	43.44	-	-	74	-30.56	-	-	0	202	V
* 3.863	29.47	AD1	32.8	-28.6	1	34.37	54	-19.63	-	-	-	-	0	202	V
* 11.588	41.19	PK1	37.8	-21.8	0	57.19	-	-	74	-16.81	-	-	0	202	H
* 11.589	29.03	AD1	37.8	-21.8	1	45.73	54	-8.27	-	-	-	-	0	202	H
* 11.591	36.08	PK1	37.8	-21.9	0	51.98	-	-	74	-22.02	-	-	0	202	V
* 11.591	24.88	AD1	37.8	-21.9	1	41.48	54	-12.52	-	-	-	-	0	202	V

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

11.4.4. TX ABOVE 1 GHz 802.11ac HT80 MODE IN THE 5.8 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL 5775 MHz)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.698	46.96	PK	34.8	-21	0	60.76	68.2	-7.44	322	262	H
1	5.725	42.16	PK	34.8	-20.8	0	56.16	78.2	-22.04	322	262	H

PK - Peak detector

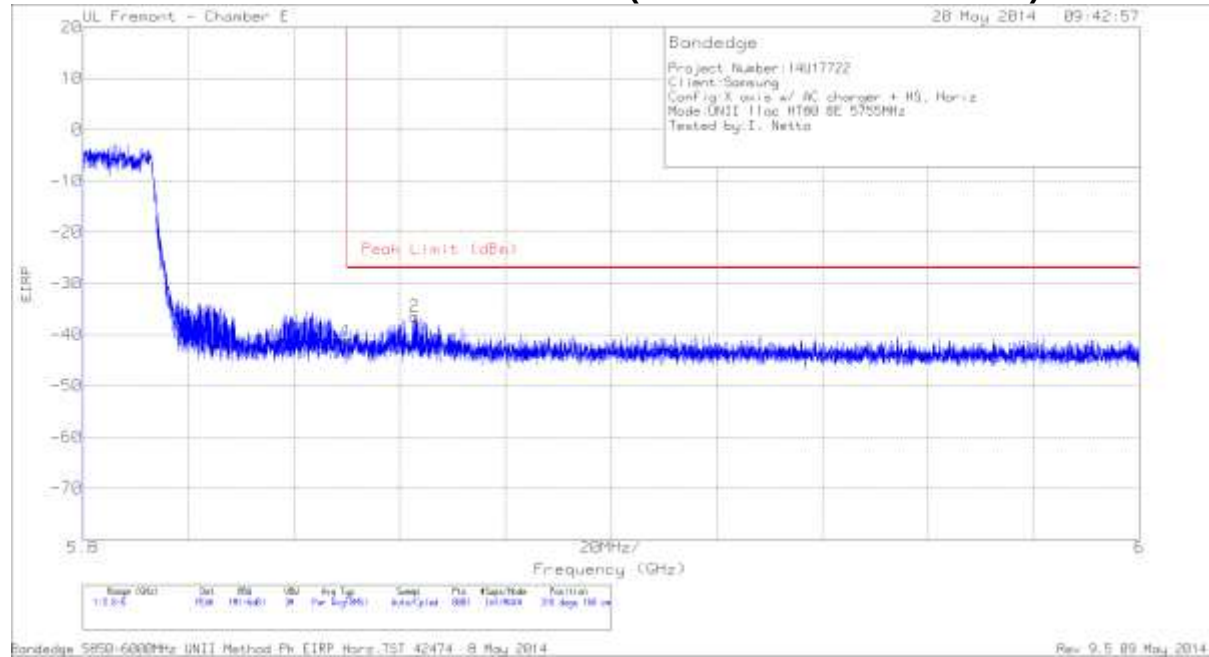


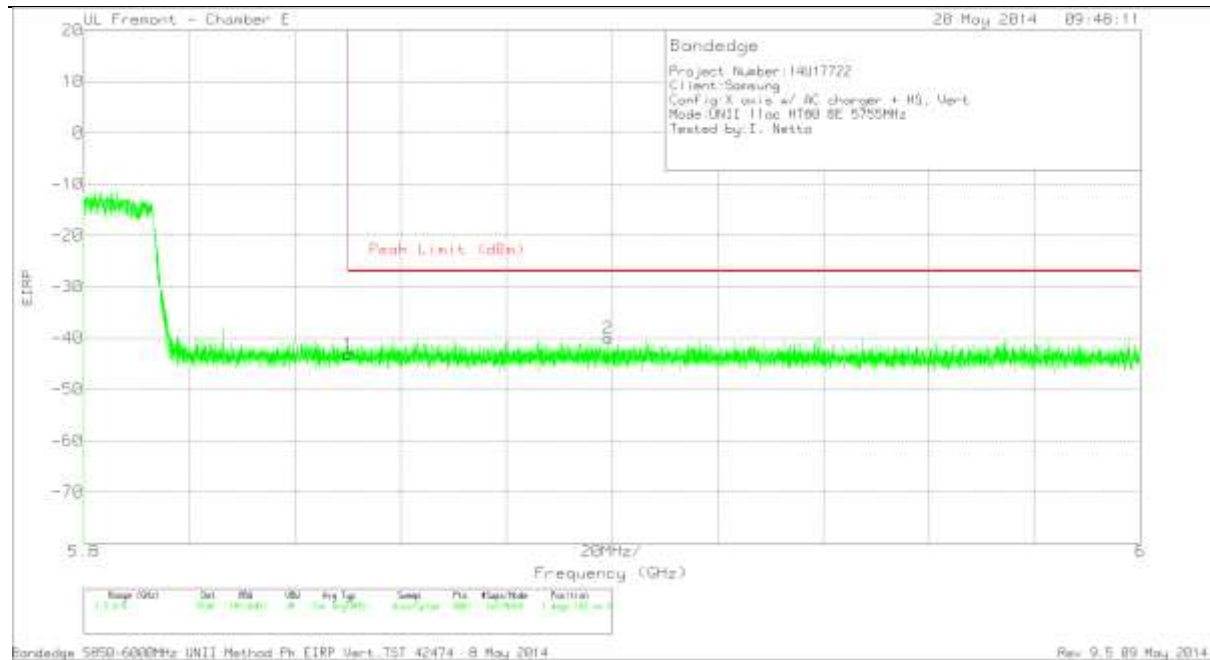
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.698	47.93	PK	34.8	-21	0	61.73	68.2	-6.47	337	212	V
1	5.725	40.94	PK	34.8	-20.8	0	54.94	78.2	-23.26	337	212	V

PK - Peak detector

RESTRICTED BANDEDGE (HIGH CHANNEL 5775 MHz)





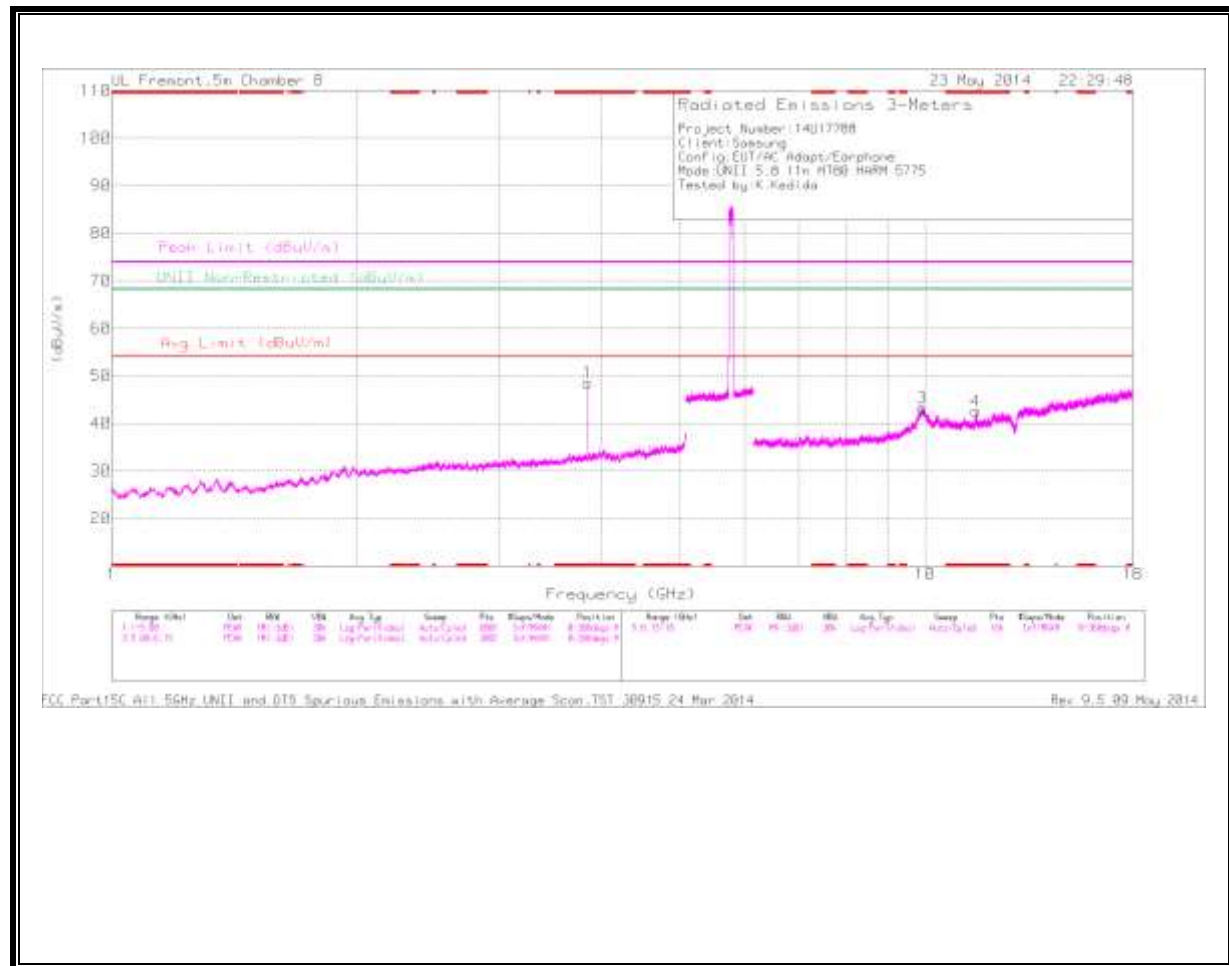
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-69.67	PK	35	-20.3	11.8	0	-43.17	-27	-16.17	1	102	V
2	5.899	-66.63	PK	35.1	-20.3	11.8	0	-40.03	-27	-13.03	1	102	V

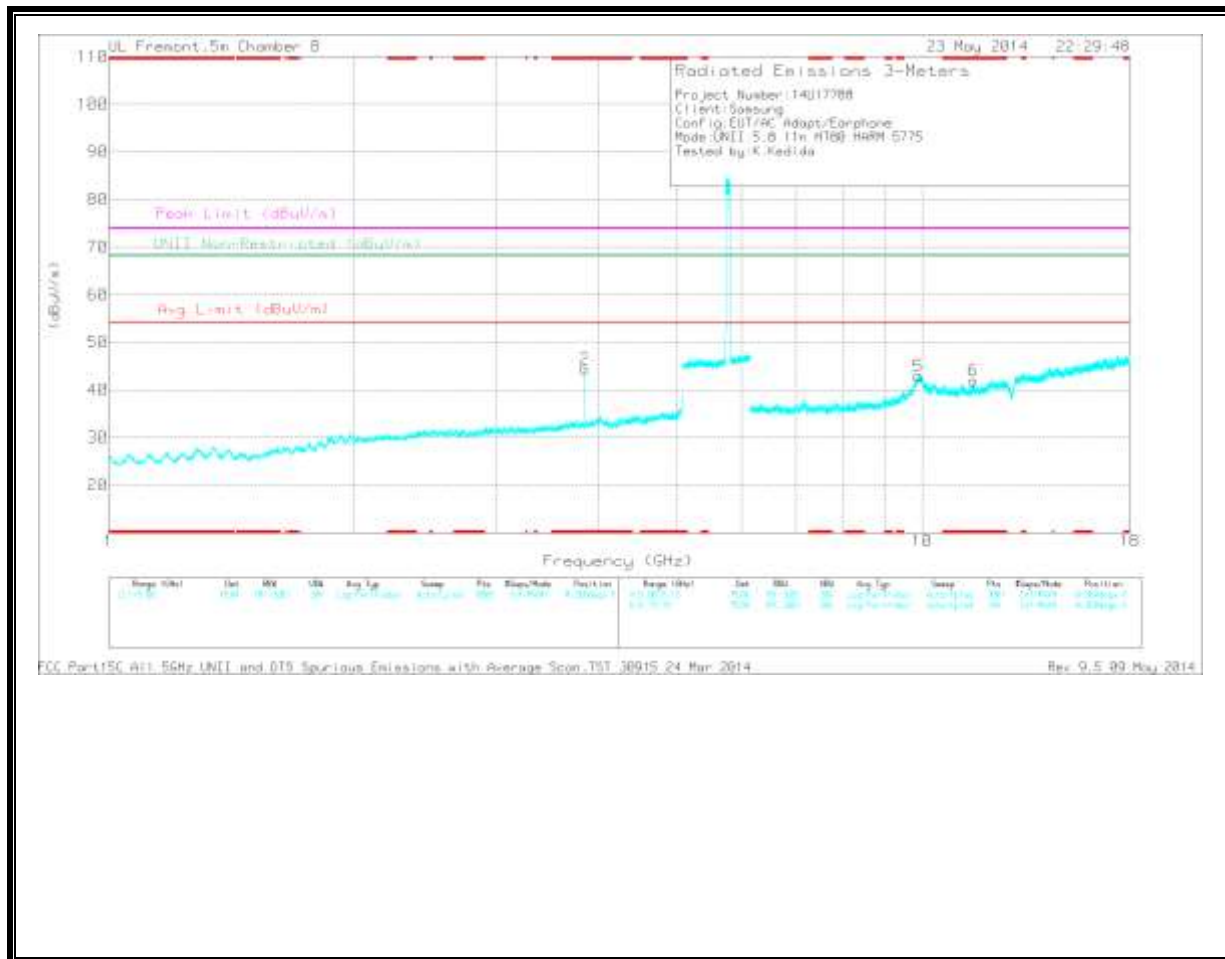
PK - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

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.



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

Trace Markers

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	Ampl/Cbl/ Filtr/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
4	*	26.34	PK	38.1	-21.8	0	42.64	-	-	74	-31.36	-	-	0-360	201	H
6	*	25.74	PK	38.1	-21.9	0	41.94	-	-	74	-32.06	-	-	0-360	202	V
1	* 3.85	46.16	PK	33.7	-31.3	0	48.56	-	-	74	-25.44	-	-	0-360	99	H
2	* 3.85	42.03	PK	33.7	-31.3	0	44.43	-	-	74	-29.57	-	-	0-360	202	V
5	9.891	29.92	PK	37	-24	0	42.92	-	-	-	-	68.2	-25.28	0-360	99	V
3	9.921	30.23	PK	37	-24	0	43.23	-	-	-	-	68.2	-24.97	0-360	201	H

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

PK - Peak detector

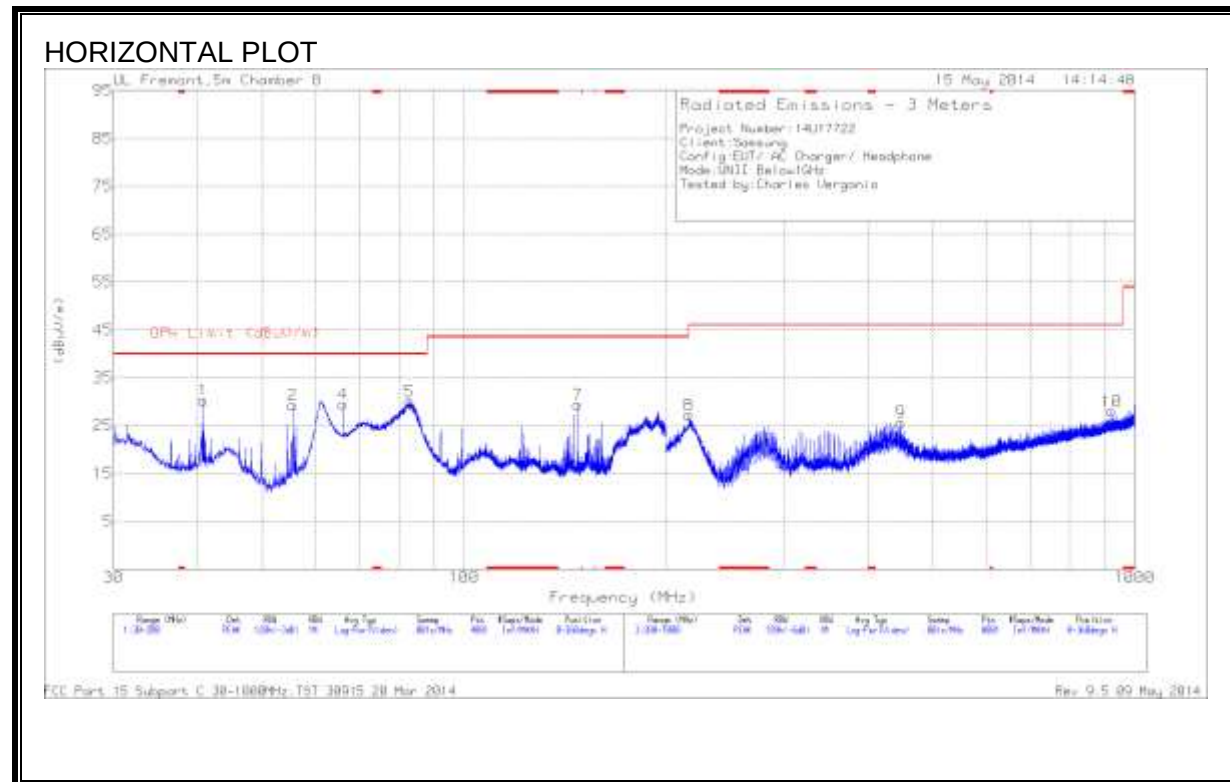
Radiated Emissions

Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T345 (dBm)	Ampl/Cbl/ Filtr/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
* 3.85	49.81	PK1	33.7	-31.3	0	52.21	-	-	74	-21.79	-	-	176	300	H
* 3.85	45.39	AD1	33.7	-31.3	4	51.79	54	-2.21	-	-	-	-	176	300	H
* 11.549	35.43	PK1	38.1	-21.9	0	51.63	-	-	74	-22.37	-	-	241	339	H
* 11.565	23.65	AD1	38.1	-21.9	4	43.85	54	-10.15	-	-	-	-	241	339	H

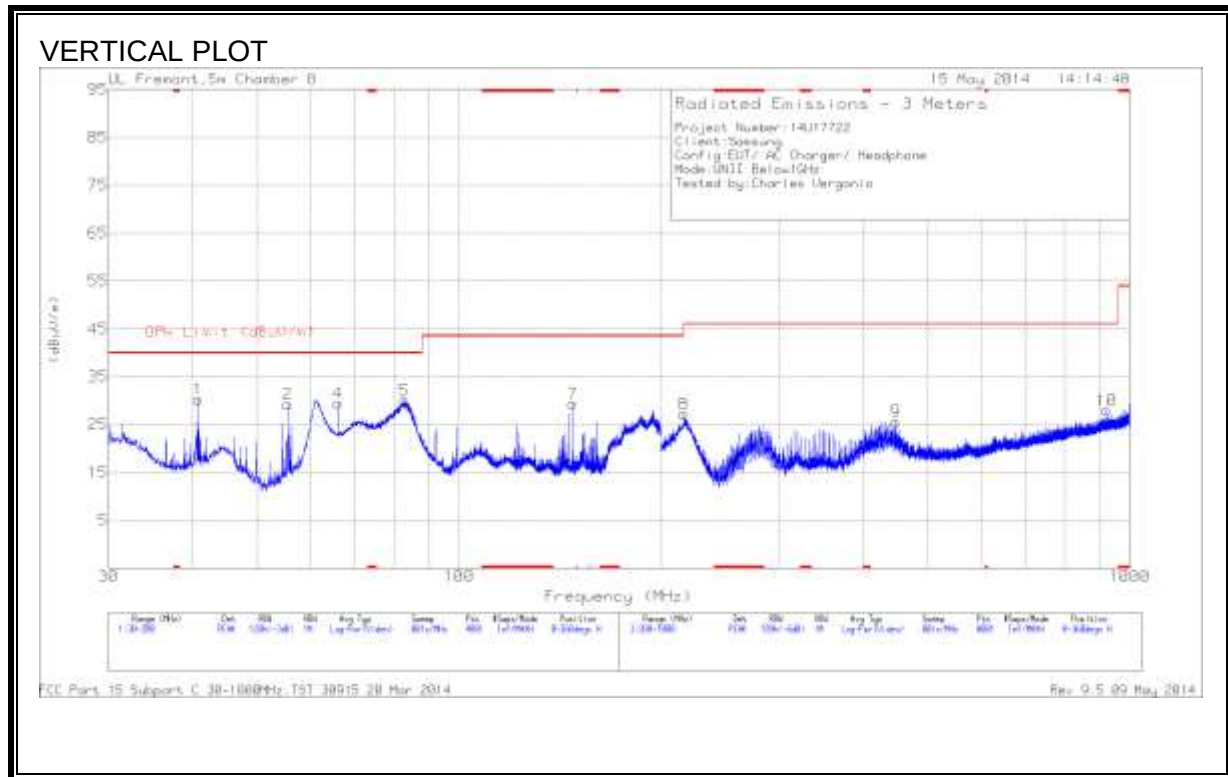
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

12. WORST-CASE BELOW 1 GHz (in the 5.3 GHz Band)

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



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



Worst Case Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T243 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	40.88	45.61	PK	13.3	-28.6	30.31	40	-9.69	0-360	400	H
2	55.5	50.6	PK	7.2	-28.5	29.3	40	-10.7	0-360	200	H
3	60.8975	53.44	PK	7.5	-28.4	32.54	40	-7.46	0-360	101	V
4	65.9975	50.05	PK	7.9	-28.4	29.55	40	-10.45	0-360	400	H
5	82.785	50.78	PK	7.5	-28.2	30.08	40	-9.92	0-360	300	H
6	92.2625	45.34	PK	8.2	-28.1	25.44	43.52	-18.08	0-360	101	V
7	147.725	44.56	PK	12.4	-27.5	29.46	43.52	-14.06	0-360	200	H
8	216.2	43.35	PK	10.6	-26.7	27.25	46.02	-18.77	0-360	200	H
9	448	34.76	PK	16.8	-25.9	25.66	46.02	-20.36	0-360	200	H
10	923.1	28.26	PK	22.6	-22.8	28.06	46.02	-17.96	0-360	400	H

PK - Peak detector

13. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 7.2.2

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

^{*} Decreases with the logarithm of the frequency.

TEST PROCEDURE

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

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

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

RESULTS

6 WORST EMISSIONS

Line-L1 .15 - 30MHz

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1 (dB)	LC Cables 1&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
1	.177	42.48	PK	1.1	0	43.58	64.6	-21.02	-	-
2	.177	28.39	Av	1.1	0	29.49	-	-	54.6	-25.11
3	.582	42.04	PK	.3	0	42.34	56	-13.66	-	-
4	.582	28.55	Av	.3	0	28.85	-	-	46	-17.15
5	1.563	42.45	PK	.2	.1	42.75	56	-13.25	-	-
6	1.563	24.83	Av	.2	.1	25.13	-	-	46	-20.87
7	1.7835	42.54	PK	.2	.1	42.84	56	-13.16	-	-
8	1.7835	26.27	Av	.2	.1	26.57	-	-	46	-19.43
9	6.342	32.52	PK	.2	.1	32.82	60	-27.18	-	-
10	6.342	14.94	Av	.2	.1	15.24	-	-	50	-34.76
11	17.349	34.91	PK	.3	.2	35.41	60	-24.59	-	-
12	17.349	19.63	Av	.3	.2	20.13	-	-	50	-29.87
13	17.7135	35.17	PK	.3	.2	35.67	60	-24.33	-	-
14	17.7135	19.83	Av	.3	.2	20.33	-	-	50	-29.67
15	20.8905	34.68	PK	.3	.2	35.18	60	-24.82	-	-
16	20.8905	20.47	Av	.3	.2	20.97	-	-	50	-29.03

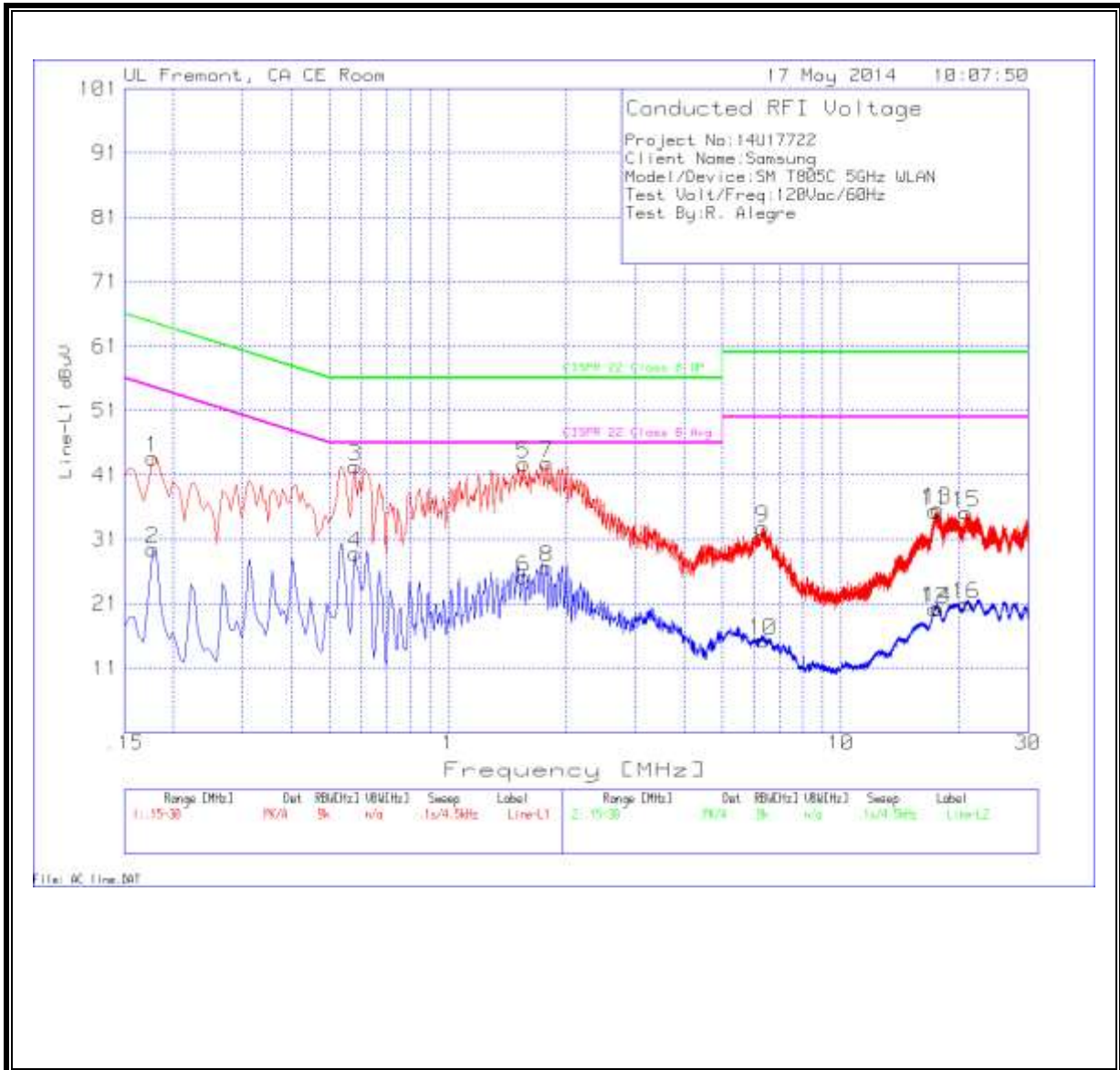
Line-L2 .15 - 30MHz

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2 (dB)	LC Cables 2&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
17	.1815	43.35	PK	1.2	0	44.55	64.4	-19.85	-	-
18	.1815	25.49	Av	1.2	0	26.69	-	-	54.4	-27.71
19	.591	42.39	PK	.3	0	42.69	56	-13.31	-	-
20	.591	28.27	Av	.3	0	28.57	-	-	46	-17.43
21	1.185	37.74	PK	.3	.1	38.14	56	-17.86	-	-
22	1.185	18.92	Av	.3	.1	19.32	-	-	46	-26.68
23	1.455	37.46	PK	.2	.1	37.76	56	-18.24	-	-
24	1.455	18.39	Av	.2	.1	18.69	-	-	46	-27.31
25	1.725	37.91	PK	.2	.1	38.21	56	-17.79	-	-
26	1.725	19.46	Av	.2	.1	19.76	-	-	46	-26.24
27	2.004	37.96	PK	.2	.1	38.26	56	-17.74	-	-
28	2.004	20.6	Av	.2	.1	20.9	-	-	46	-25.1
29	5.4195	28.32	PK	.2	.1	28.62	60	-31.38	-	-
30	5.4195	13	Av	.2	.1	13.3	-	-	50	-36.7
31	6.0585	28	PK	.2	.1	28.3	60	-31.7	-	-
32	6.0585	13.77	Av	.2	.1	14.07	-	-	50	-35.93
33	19.0365	38.44	PK	.3	.2	38.94	60	-21.06	-	-
34	19.0365	23.49	Av	.3	.2	23.99	-	-	50	-26.01
35	20.9355	38.76	PK	.3	.2	39.26	60	-20.74	-	-
36	20.9355	24.58	Av	.3	.2	25.08	-	-	50	-24.92

PK - Peak detector
 Av - average detection

LINE 1 RESULTS



LINE 2 RESULTS

