



FCC 47 CFR PART 15 SUBPART C

CERTIFICATION TEST REPORT

FOR

802.11 a/b/g/n, BLE, and BT module

MODEL NUMBER: EDISON

FCC ID: 2AB8ZND1

REPORT NUMBER: 14U17976-E2

ISSUE DATE: AUGUST 05, 2014

Prepared for

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: INTEL CORPORATION
2200 MISSION COLLEGE BOULEVARD
SANTA CLARA, CA 95052, U.S.A

EUT DESCRIPTION: 802.11 a/b/g/n, BLE, and BT module

MODEL: EDISON

SERIAL NUMBER: SMED425D0039PBAF(SKU10),(Conducted)
SMED425D004KPBAF(SKU9),(Radiated)

DATE TESTED: JUNE 26, 2014 – AUGUST 4, 2014

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

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

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

Approved & Released For
UL Verification Services Inc. By:



CHOON SIAN OOI
PROJECT LEAD
UL Verification Services Inc.

Tested By:



THANH PHAM
EMC 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, RSS-GEN Issue 3, and RSS-210 Issue 8.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 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 1000 MHz	±4.94 dB

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

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is an 802.11a/b/g/n, BLE, and BT module

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

2.4GHz Band

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
2412 - 2462	802.11b	15.80	38.02
2412 - 2462	802.11g	17.10	51.29
2412 - 2462	802.11n HT20	17.12	51.52
2422 - 2452	802.11n HT40	14.20	26.30

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a WiFi antenna, with gain as follows:

Frequency Range (MHz)	Max Gain (dBi)
2400-2483.5	3.2
5150-5850	4.2

5.4. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was 6.10 RC190.40.

The EUT driver software installed during testing was 6.10.190.49

5.5. WORST-CASE CONFIGURATION AND MODE

Radiated emission and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

The fundamental of the EUT was investigated in three orthogonal orientations X,Y,Z, it was determined that Y orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in Y orientation.

Worst-case data rates as provided by the client were:

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

802.11b mode: 1 Mbps

802.11g mode: 6 Mbps

802.11n HT20mode: MCS0

802.11n HT40mode: MCS0

Only BT and 5GHz WLAN can transmit simultaneously.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Laptop	Lenovo	T420	4236b92	N/A
AC / DC Adapter	Lenovo	42T4430	11S42T4430Z1ZGWE28	N/A
Laptop	Lenovo	T420	4236b92	N/A
AC / DC Adapter	Lenovo	42T4430	11S42T4430Z1ZGWE28	N/A

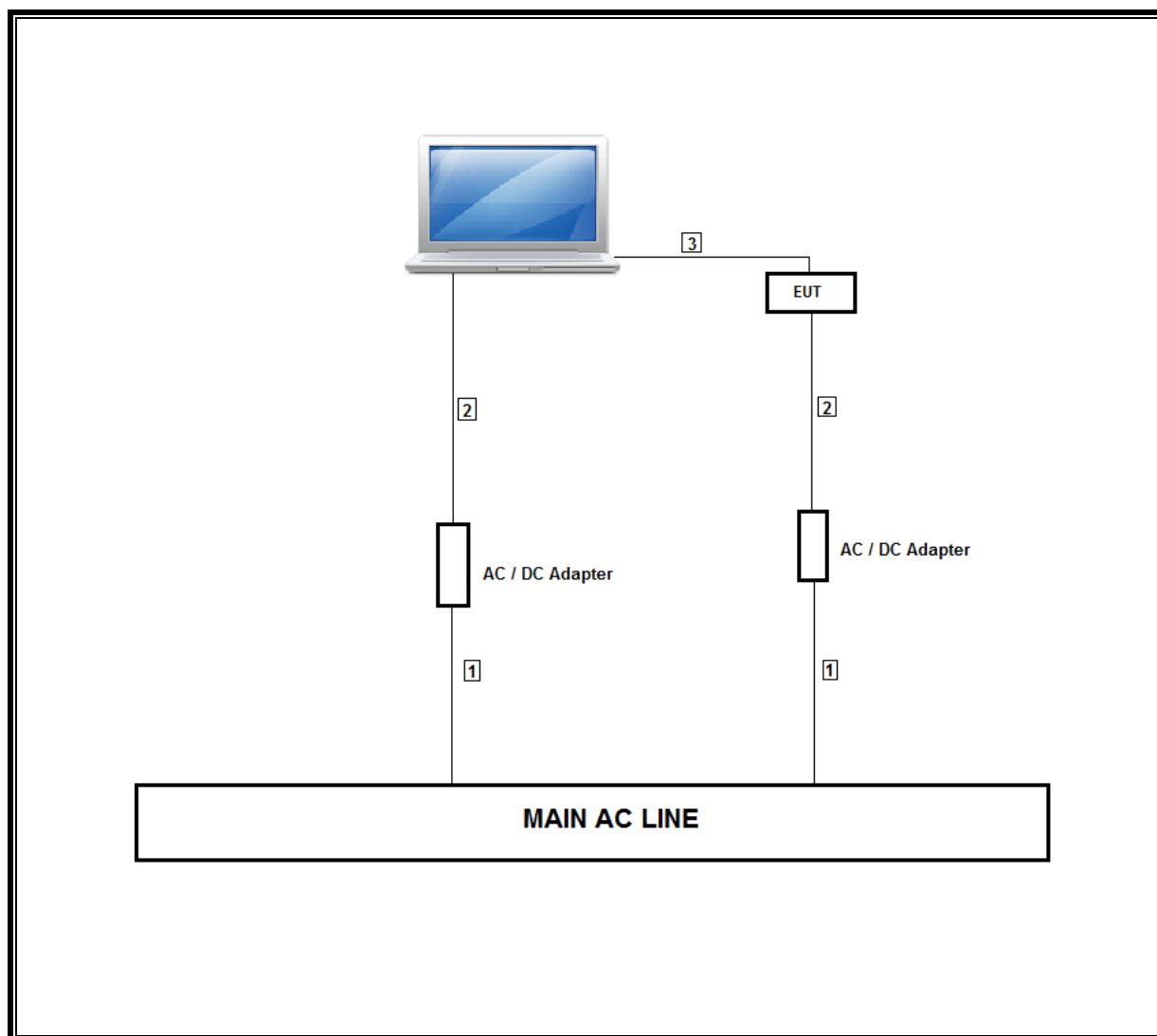
I/O CABLES

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC	2	AC	Unshielded	1	AC input
2	DC	2	DC	Unshielded	1	DC output
3	USB	1	USB	Unshielded	0.5	USB-A to OTG

TEST SETUP

The EUT is connected with a host laptop computer by USB cable during the tests. Test software exercised the radio card.

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

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

Test Equipment List					
Description	Manufacturer	Model	Asset	Cal Date	Cal Due
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	T146	06/19/14	06/19/15
PXA Signal Analyzer	Agilent	N9030A	T339	12/10/13	12/10/14
Horn Antenna, 1GHz-18GHz	ETS Lindgren	3117	T119	01/06/14	01/06/15
Antenna, Horn, 18 GHz	EMCO	3115	C01218	01/18/14	01/18/15
Antenna, Horn, 26.5 GHz	ARA	MWH-1826/B	C00980	11/14/13	11/14/14
Antenna, Bilog, 30MHz-1 GHz	Sunol Sciences	JB1	C01016	08/22/13	08/22/14
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C00749	10/19/13	10/19/14
Peak Power Meter	Agilent / HP	N1911A	T379	02/07/14	02/07/15
Power Meter Sensor	Agilent / HP	N1921A	T309	12/12/13	12/12/14
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00885	01/16/14	01/16/15
5GHz Low Pass Filter	Micro-Tronics	LPS17541	F00219	01/11/14	01/11/15
3GHz High Pass Filter	Micro-Tronics	HPS17542	F00222	01/11/14	01/11/15
6GHz High Pass Filter	Micro-Tronics	HPM17543	F00224	01/11/14	01/11/15

7. ON TIME, DUTY CYCLE AND MEASUREMENT METHODS

LIMITS

None; for reporting purposes only.

PROCEDURE

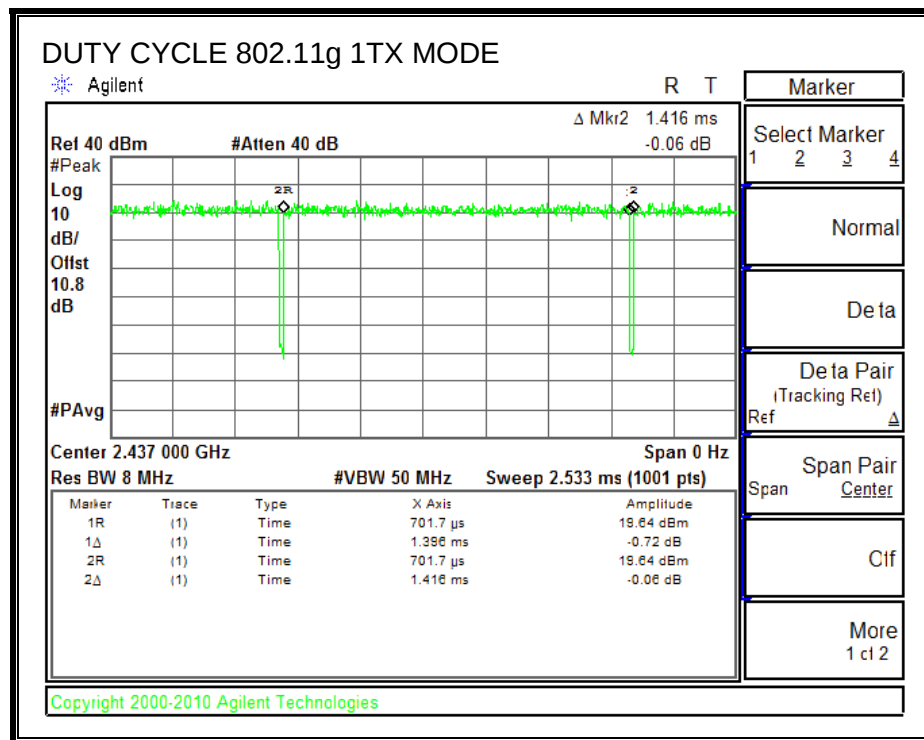
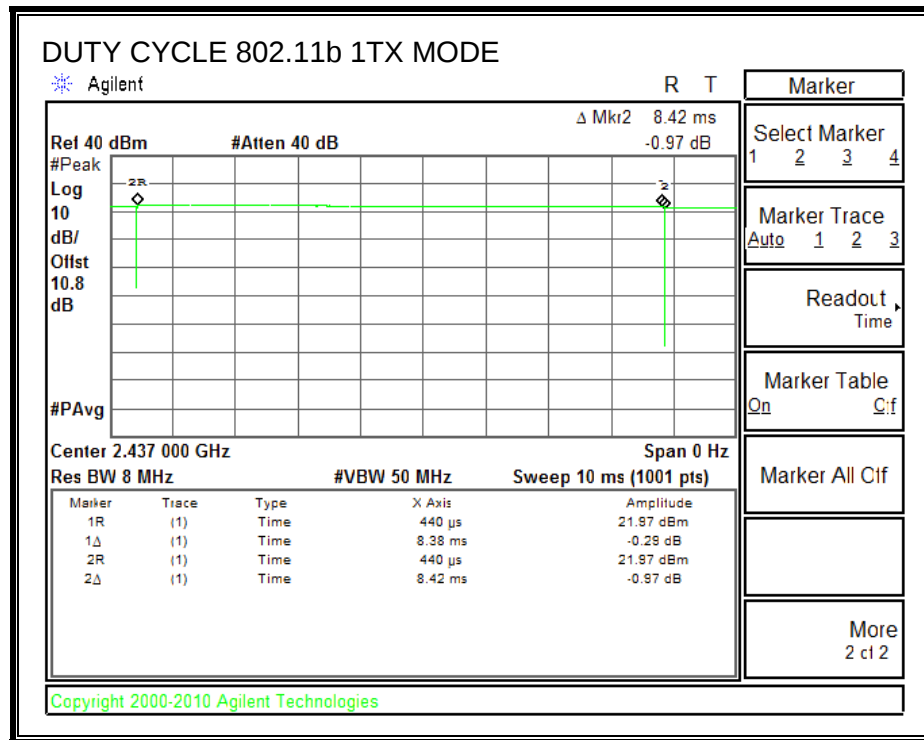
KDB 558074 Zero-Span Spectrum Analyzer Method.

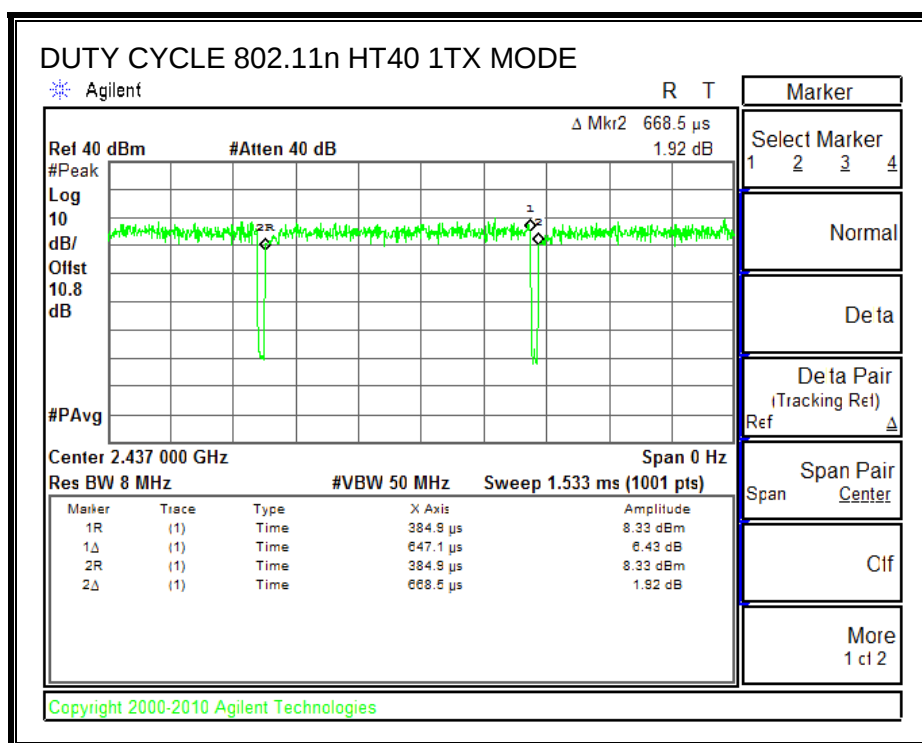
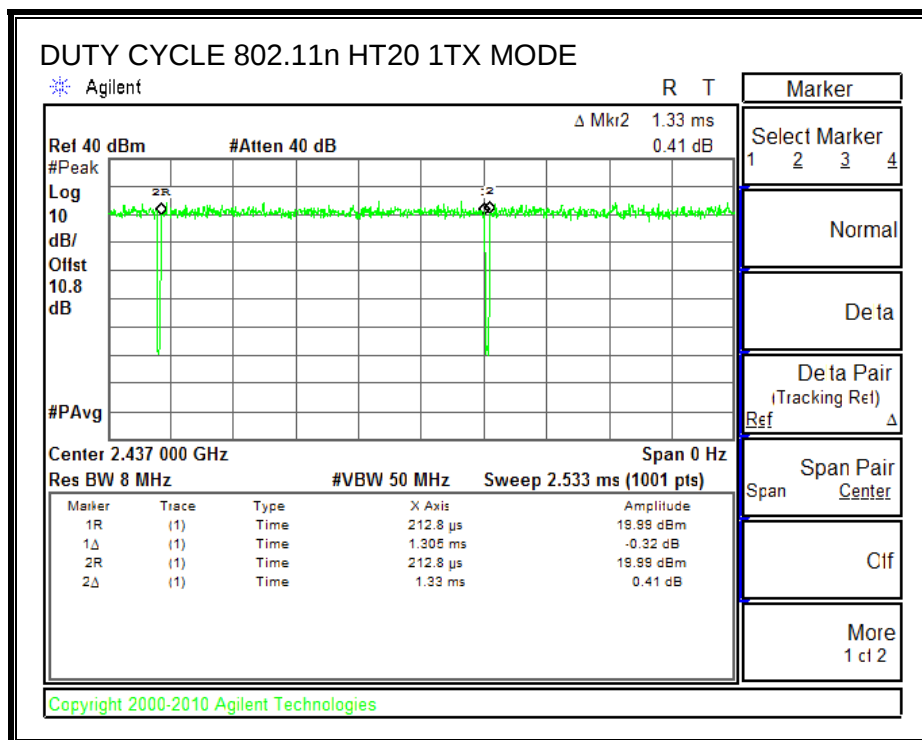
7.1. ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
2.4GHz Band						
802.11b 1TX	8.380	8.420	0.995	99.52%	0.00	0.010
802.11g 1TX	1.396	1.416	0.986	98.59%	0.00	0.010
802.11n HT20 1TX	1.305	1.330	0.981	98.12%	0.00	0.010
802.11n HT40 1TX	0.6471	0.6685	0.968	96.80%	0.14	1.545

7.2. DUTY CYCLE PLOTS

2.4 GHz BAND





7.3. MEASUREMENT METHODS

6 dB BW: KDB 558074 D01 v03r02, Section 8.1.

Output Power: KDB 558074 D01 v03r02, Section 9.2.3.2.

Power Spectral Density: KDB 558074 D01 v03r02, Section 10.3 and 10.5

Out-of-band emissions in non-restricted bands: KDB 558074 D01 v03r02, Section 11.0.

Out-of-band emissions in restricted bands: KDB 558074 D01 v03r02, Section 12.1.

8. ANTENNA PORT TEST RESULTS

8.1. 802.11b MODE IN THE 2.4 GHz BAND

8.1.1. 6 dB BANDWIDTH

LIMITS

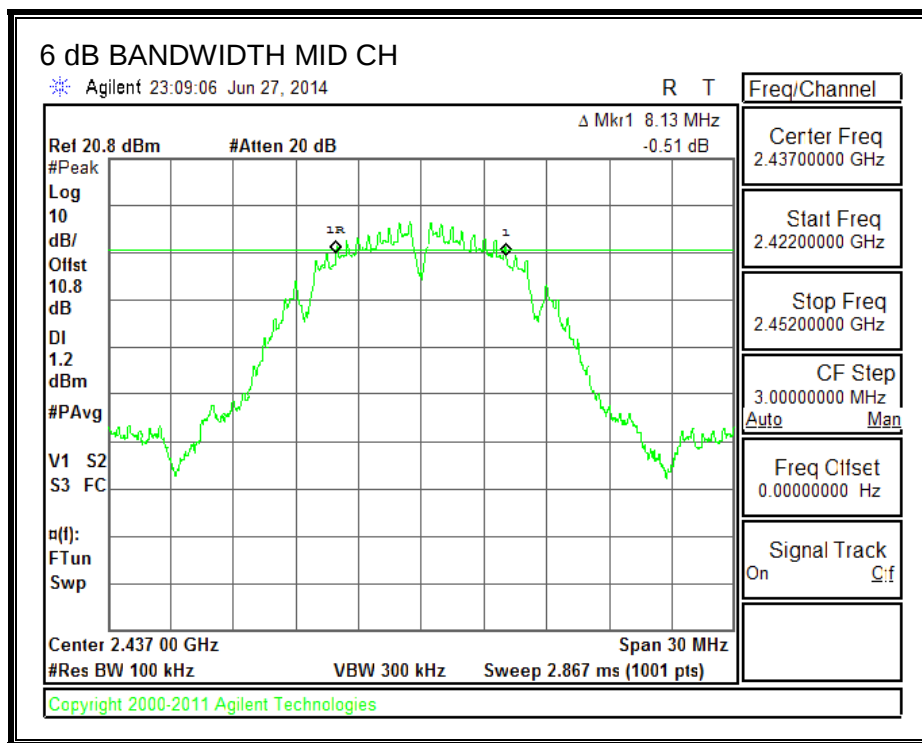
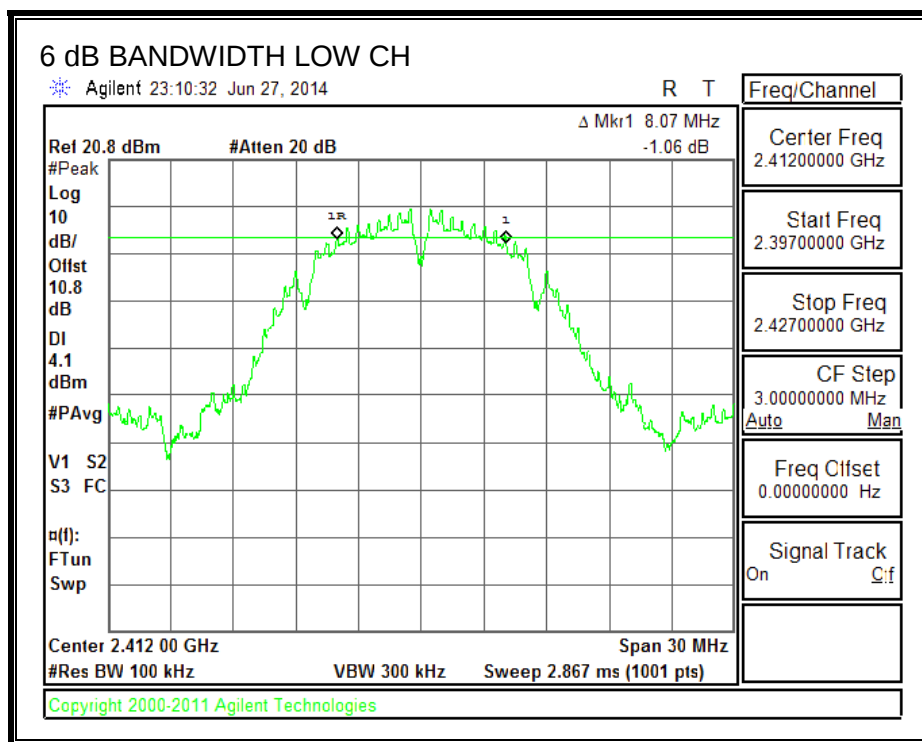
FCC §15.247 (a) (2)

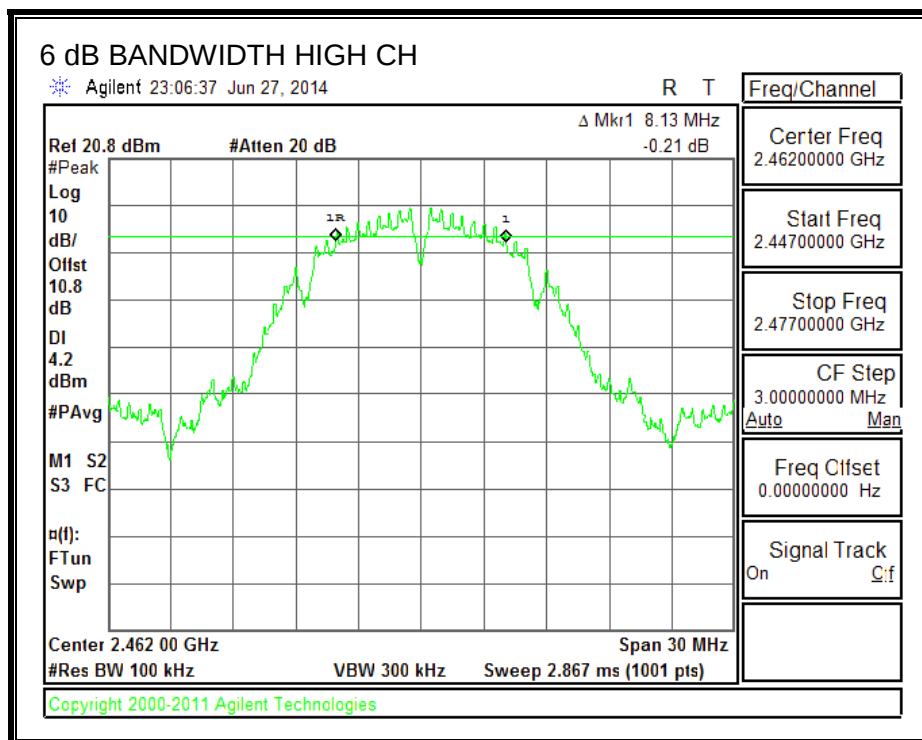
The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2412	8.070	0.5
Mid	2437	8.130	0.5
High	2462	8.130	0.5

6 dB BANDWIDTH





8.1.2. 99% BANDWIDTH

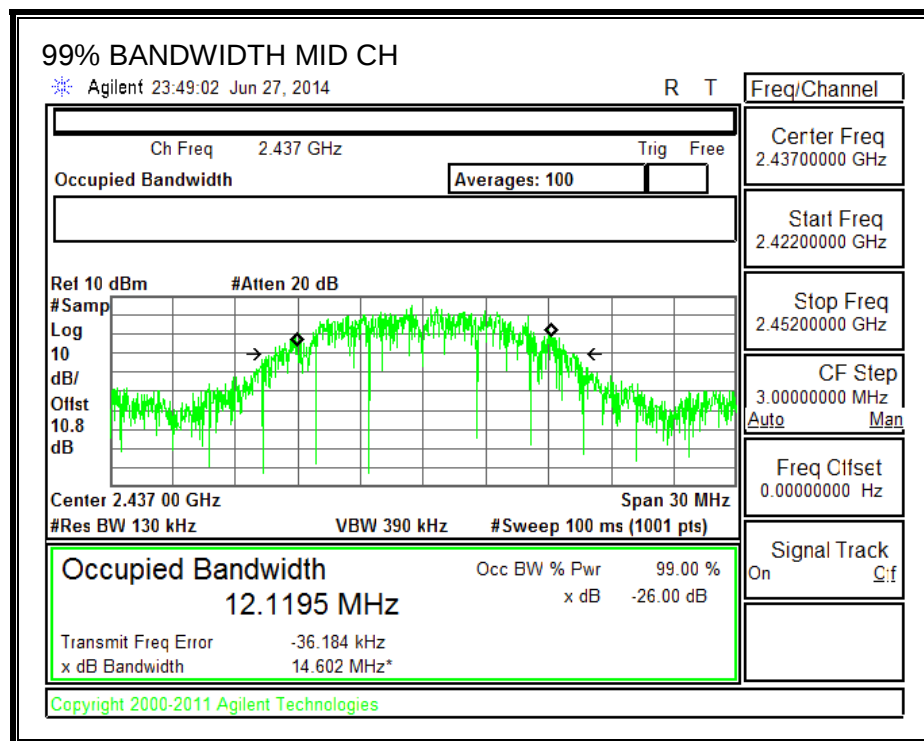
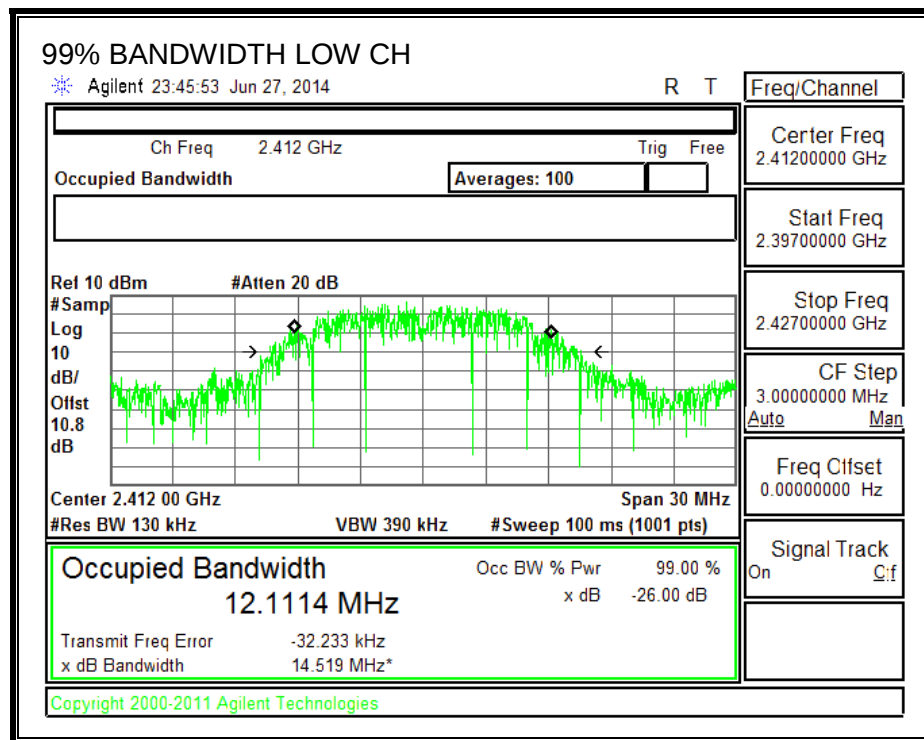
LIMITS

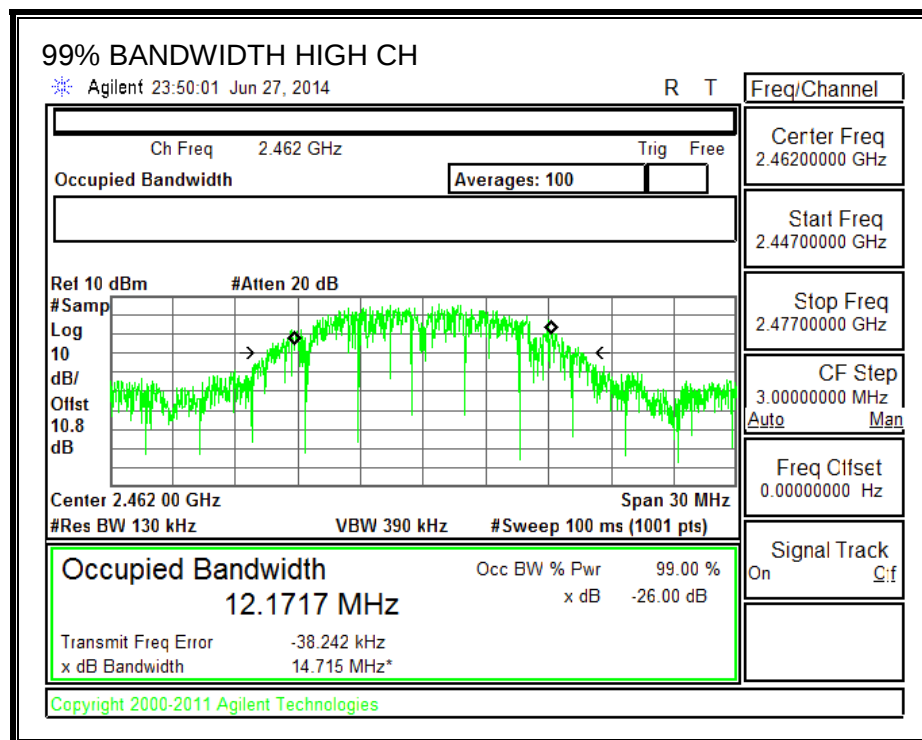
None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2412	12.1114
Mid	2437	12.1195
High	2462	12.1717

99% BANDWIDTH





8.1.3. OUTPUT POWER

LIMITS

FCC §15.247 (a) (2)

For systems using digital modulation in the 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low	2412	3.20	30.00	30	36	30.00
Mid	2437	3.20	30.00	30	36	30.00
High	2462	3.20	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low	2412	13.30	13.30	30.00	-16.70
Mid	2437	14.10	14.10	30.00	-15.90
High	2462	15.80	15.80	30.00	-14.20

Note: the power readings above are measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

8.1.4. PSD

LIMITS

FCC §15.247(e)

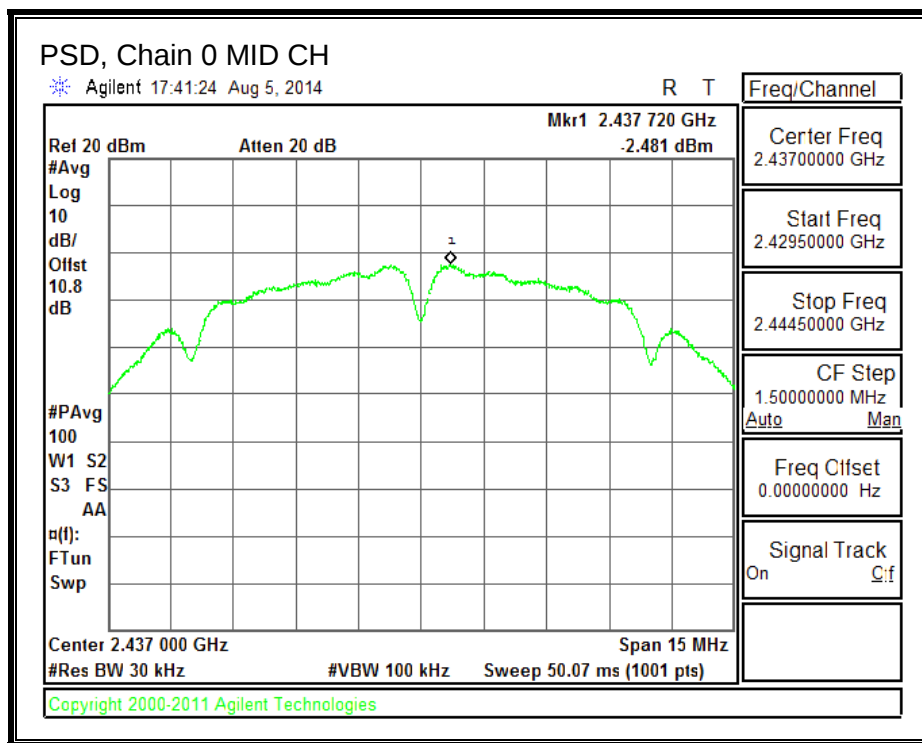
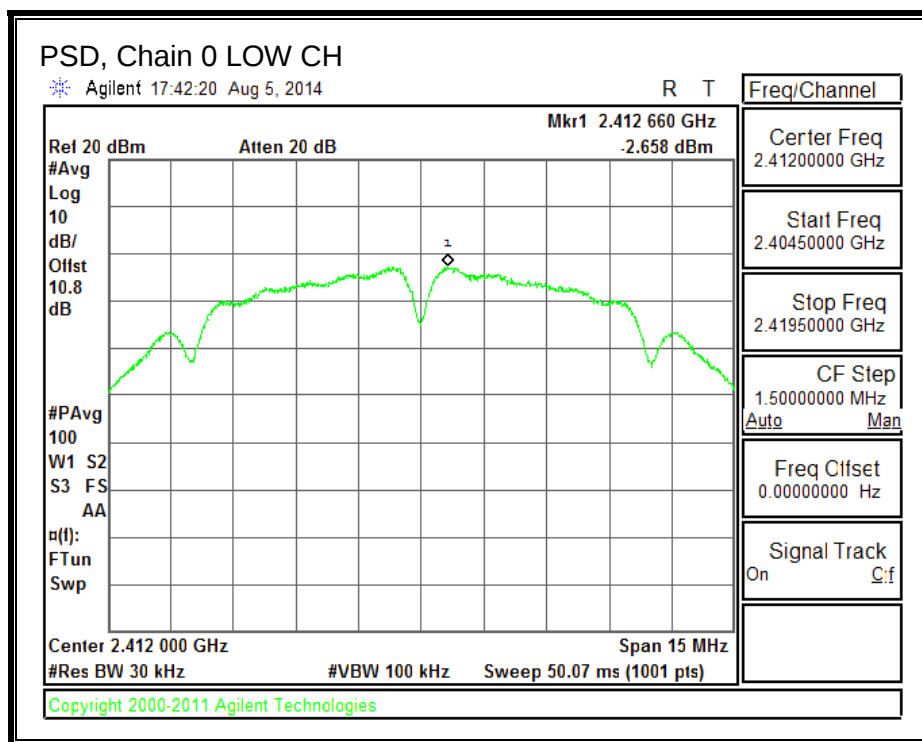
The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

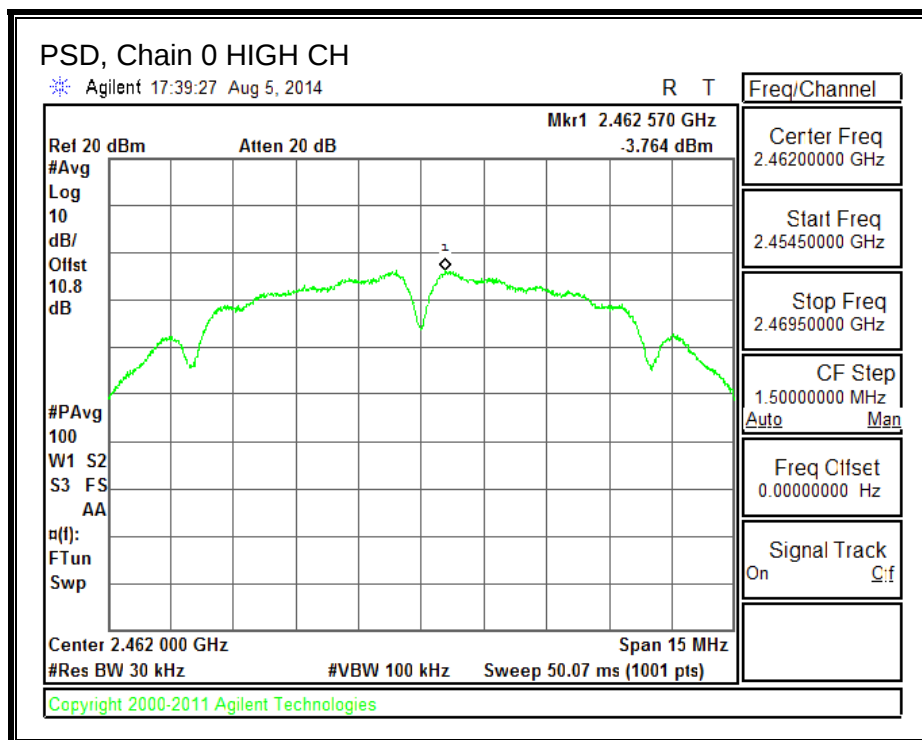
RESULTS

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm)	DCCF (dB)	Total Corr'd PSD (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-2.658	0.000	-2.658	8.0	-10.7
Mid	2437	-2.481	0.000	-2.481	8.0	-10.5
High	2462	-3.764	0.000	-3.764	8.0	-11.8

PSD





8.1.5. OUT-OF-BAND EMISSIONS

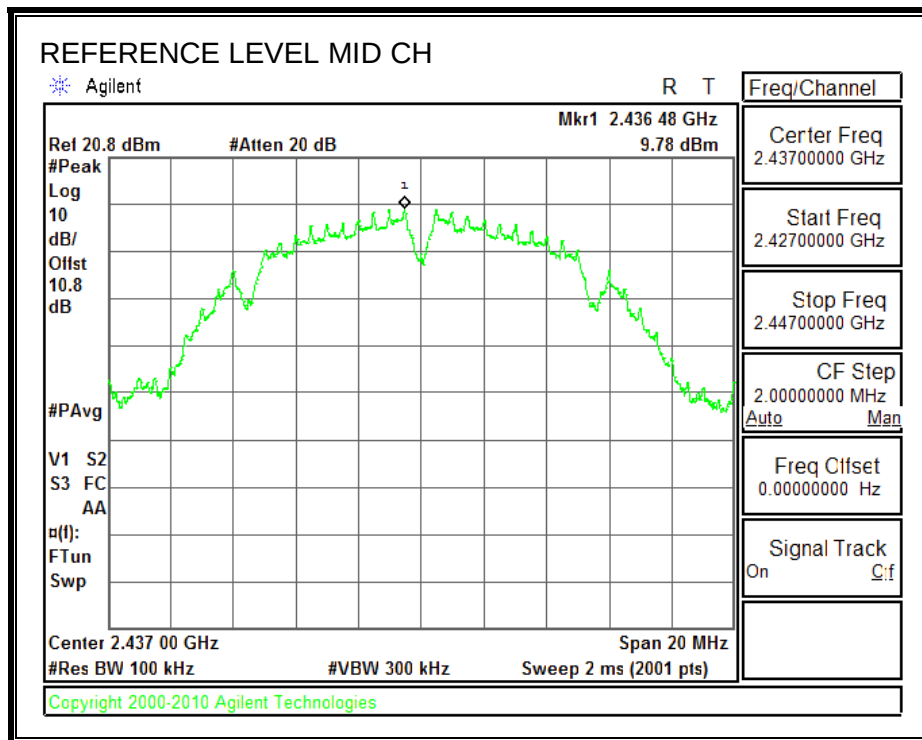
LIMITS

FCC §15.247 (d)

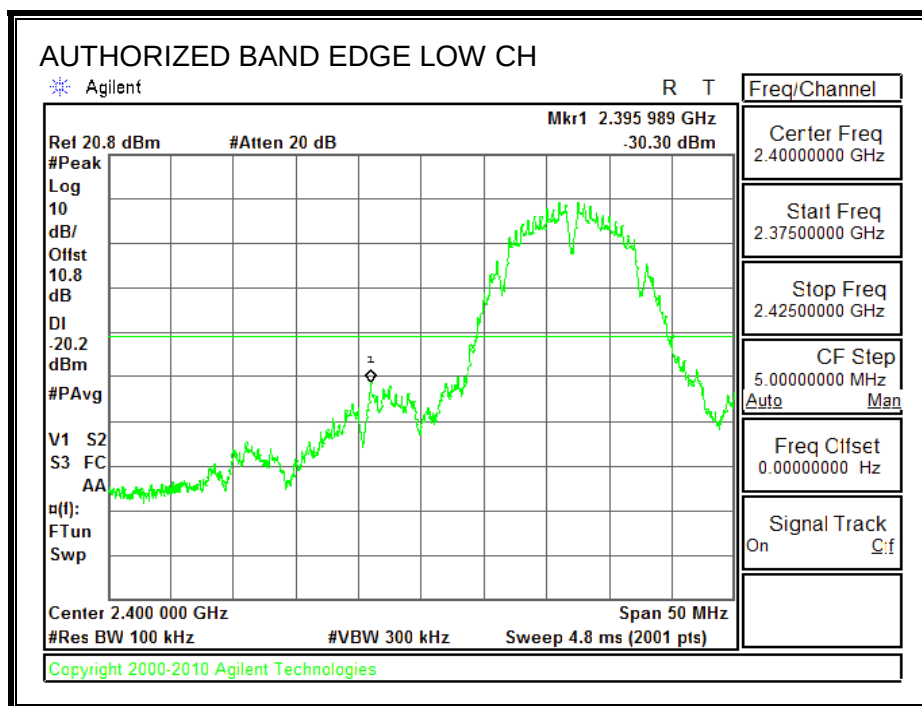
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

RESULTS

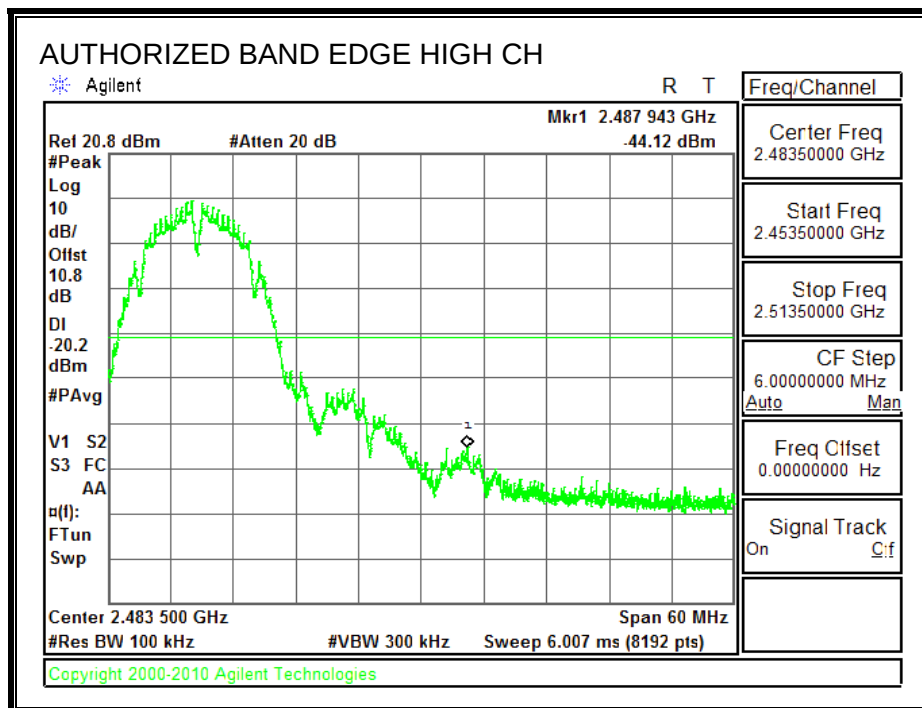
IN-BAND REFERENCE LEVEL



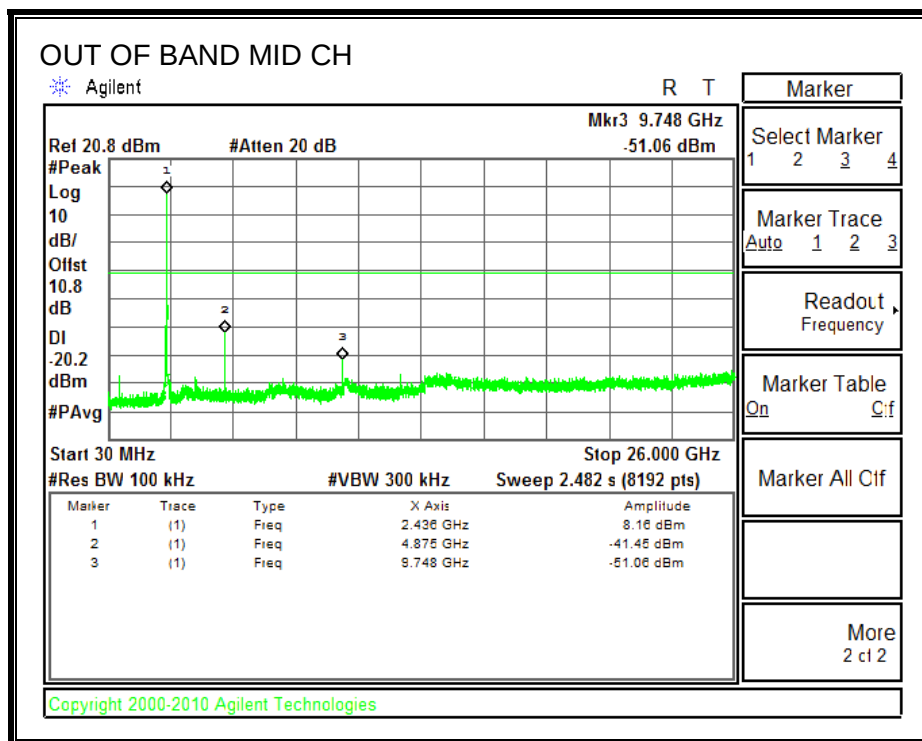
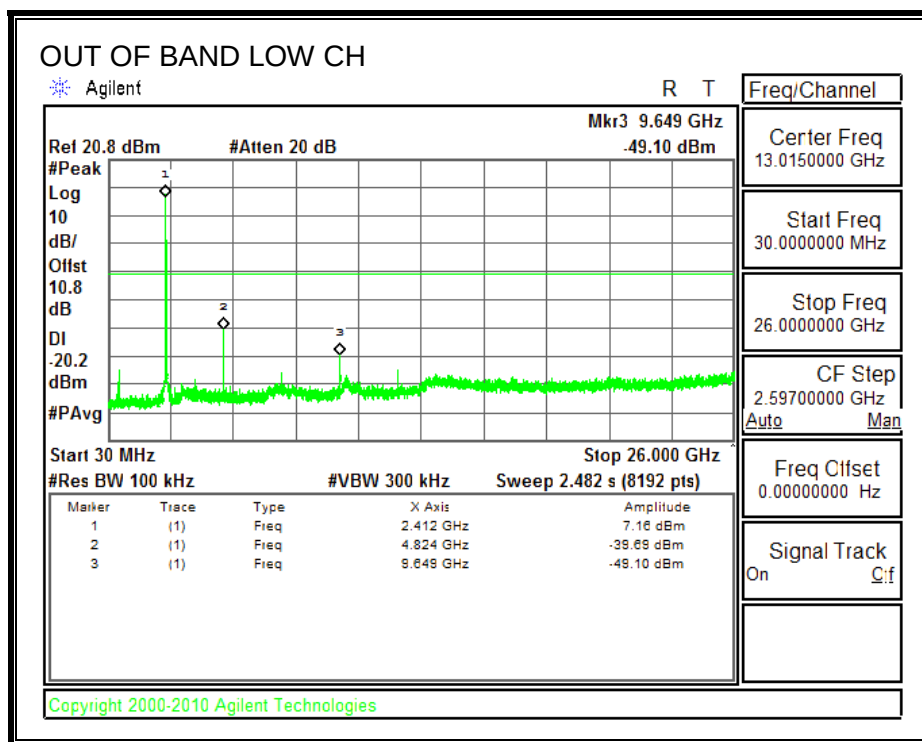
LOW CHANNEL BANDEDGE

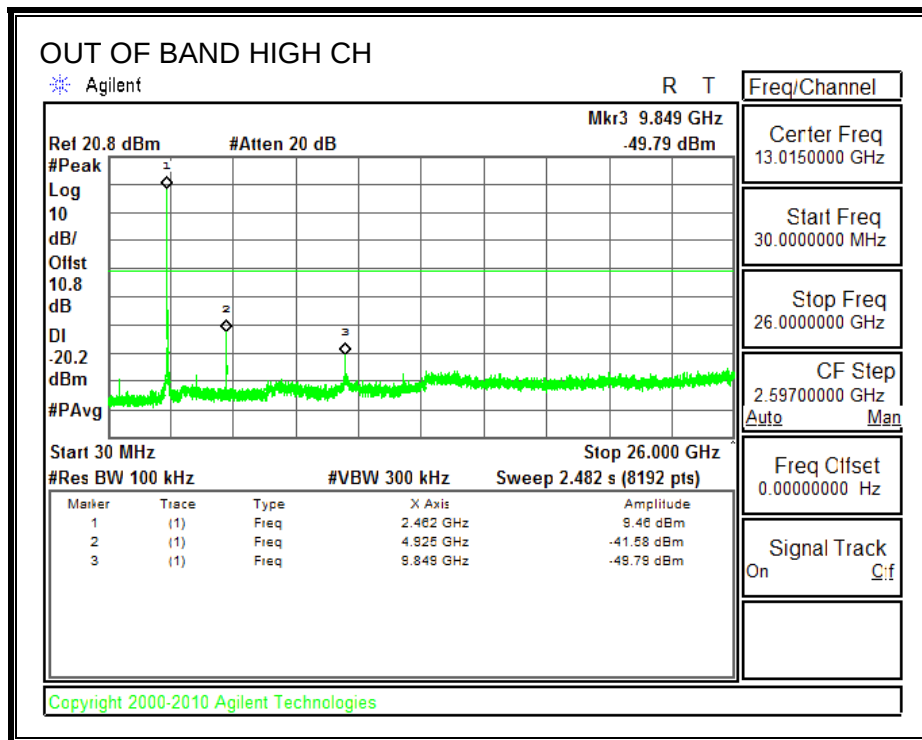


HIGH CHANNEL BANDEDGE



OUT-OF-BAND EMISSIONS





8.2. 802.11g MODE IN THE 2.4 GHz BAND

8.2.1. 6 dB BANDWIDTH

LIMITS

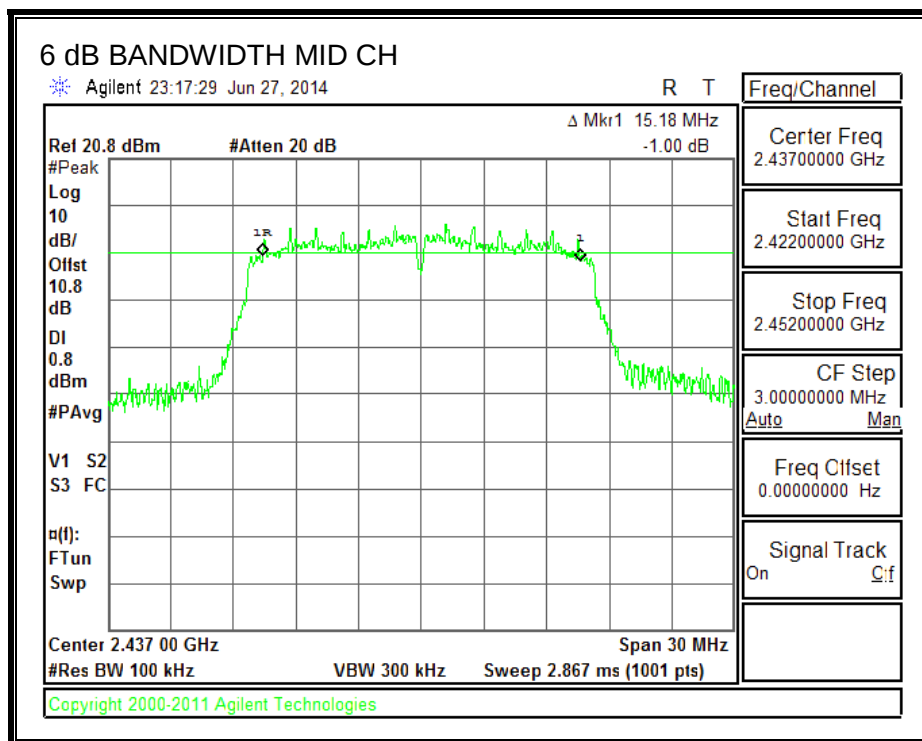
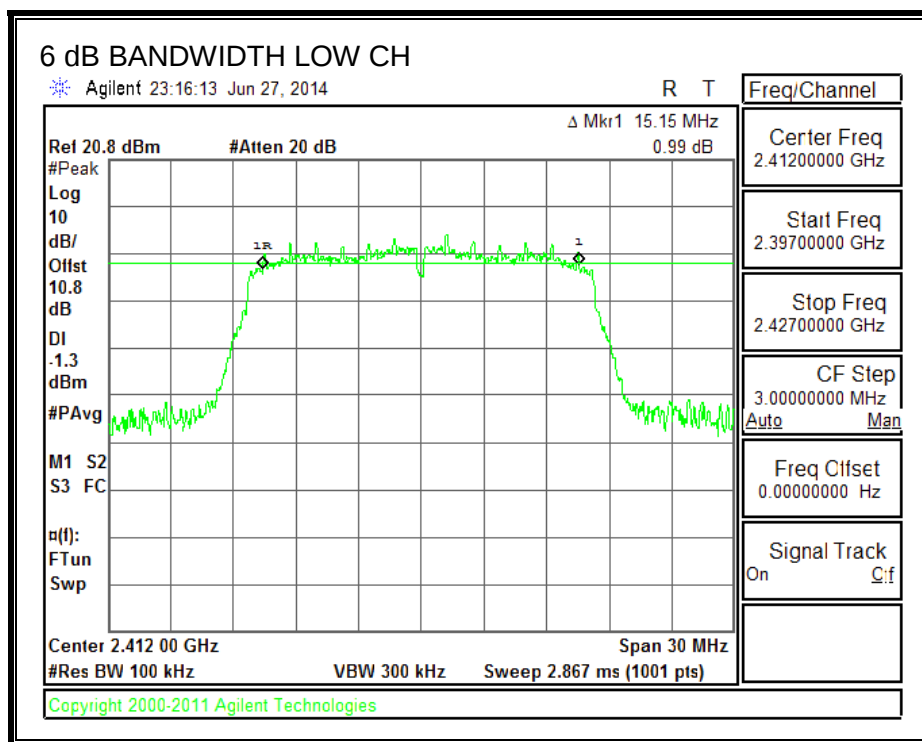
FCC §15.247 (a) (2)

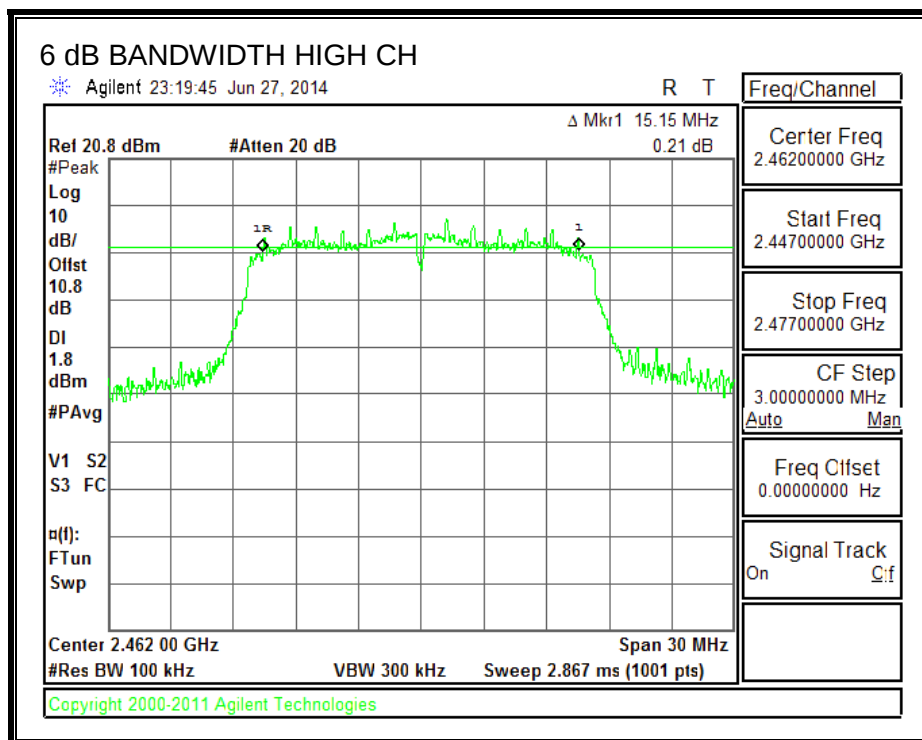
The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2412	15.150	0.5
Mid	2437	15.180	0.5
High	2462	15.150	0.5

6 dB BANDWIDTH





8.2.2. 99% BANDWIDTH

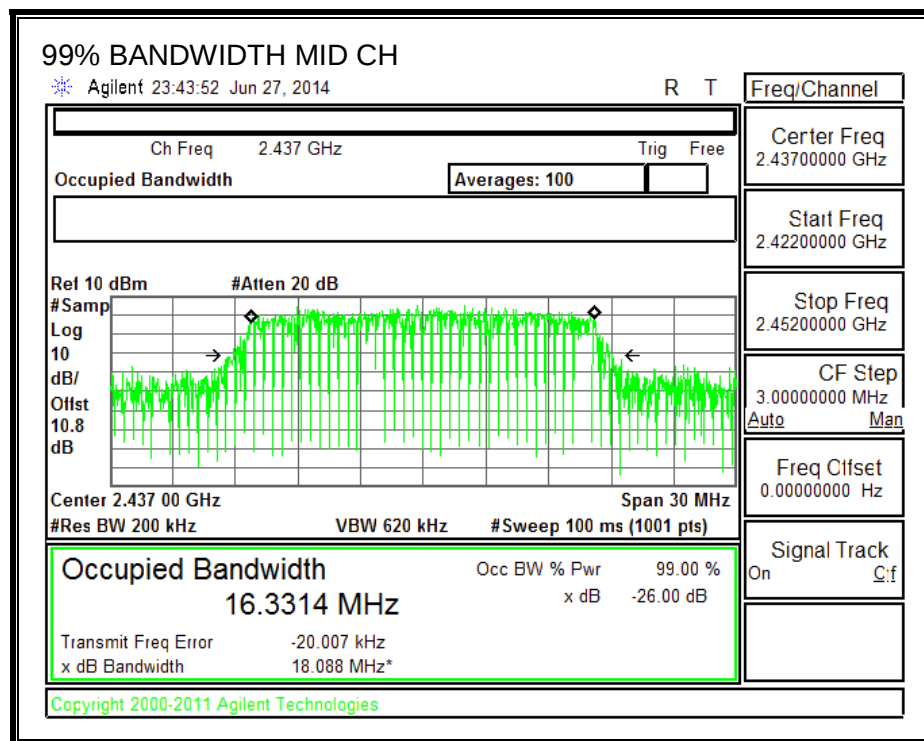
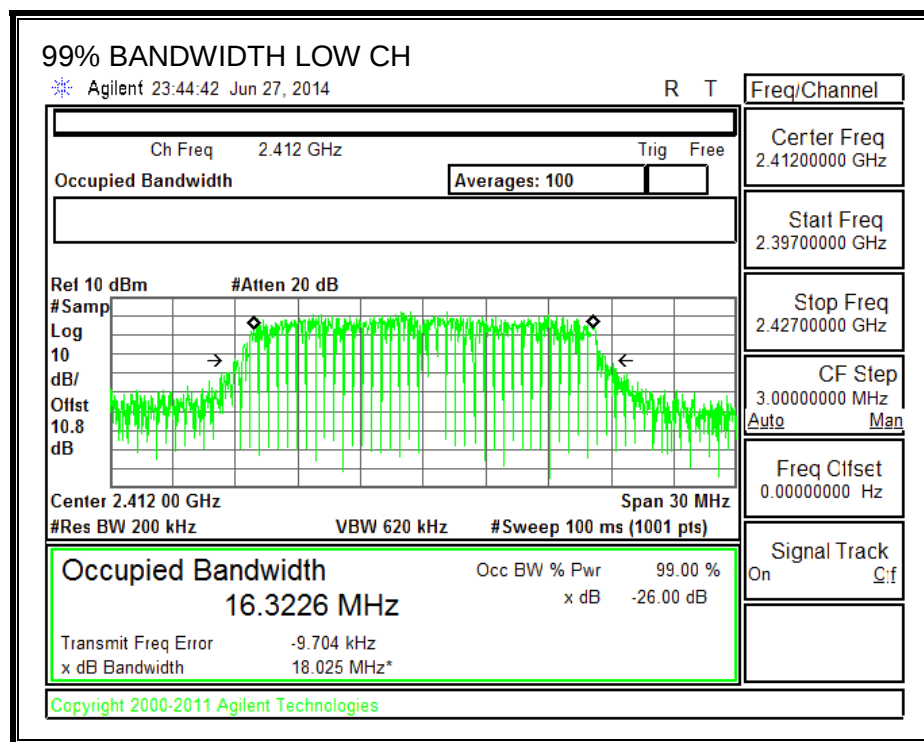
LIMITS

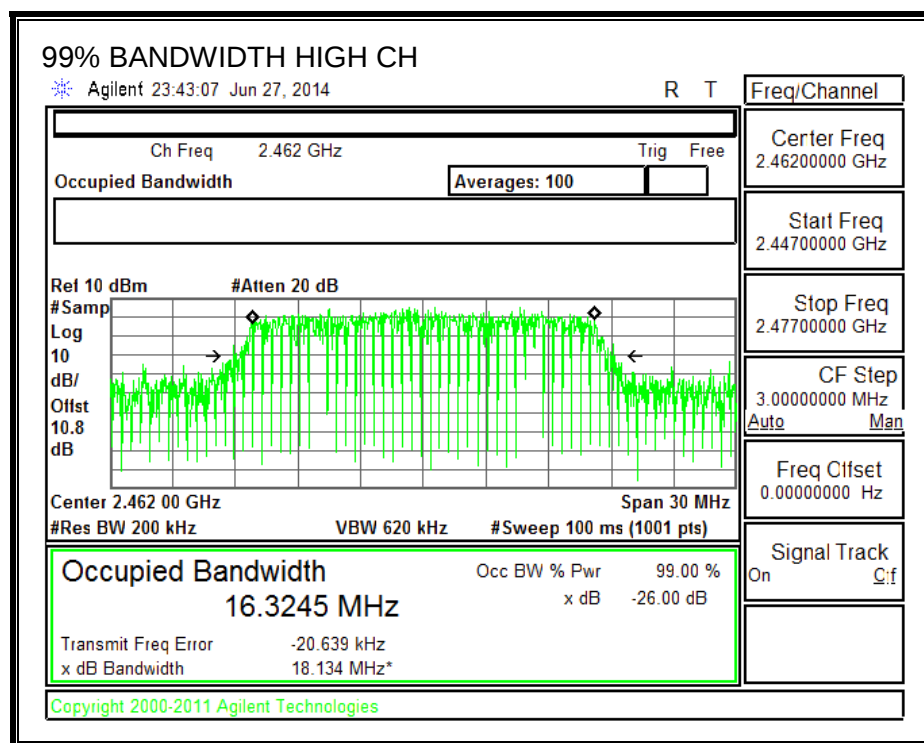
None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2412	16.3226
Mid	2437	16.3314
High	2462	16.3245

99% BANDWIDTH





8.2.3. OUTPUT POWER

LIMITS

FCC §15.247

For systems using digital modulation in the 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low	2412	3.20	30.00	30	36	30.00
Mid	2437	3.20	30.00	30	36	30.00
High	2462	3.20	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low	2412	14.10	14.10	30.00	-15.90
Mid	2437	17.00	17.00	30.00	-13.00
High	2462	17.10	17.10	30.00	-12.90

Note: the power readings above are measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

8.2.4. PSD

LIMITS

FCC §15.247(e)

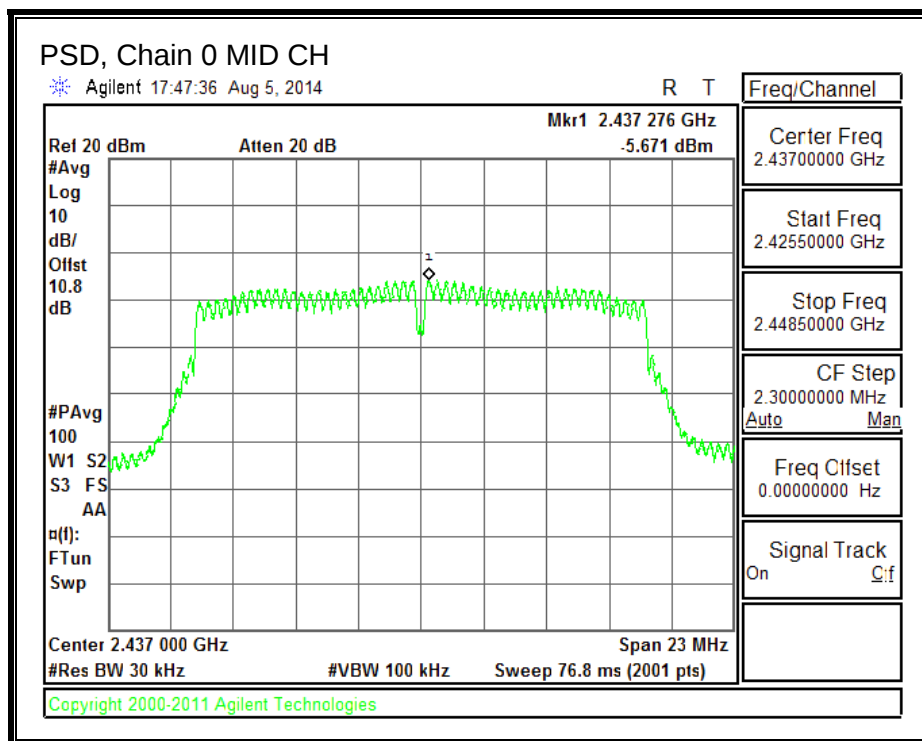
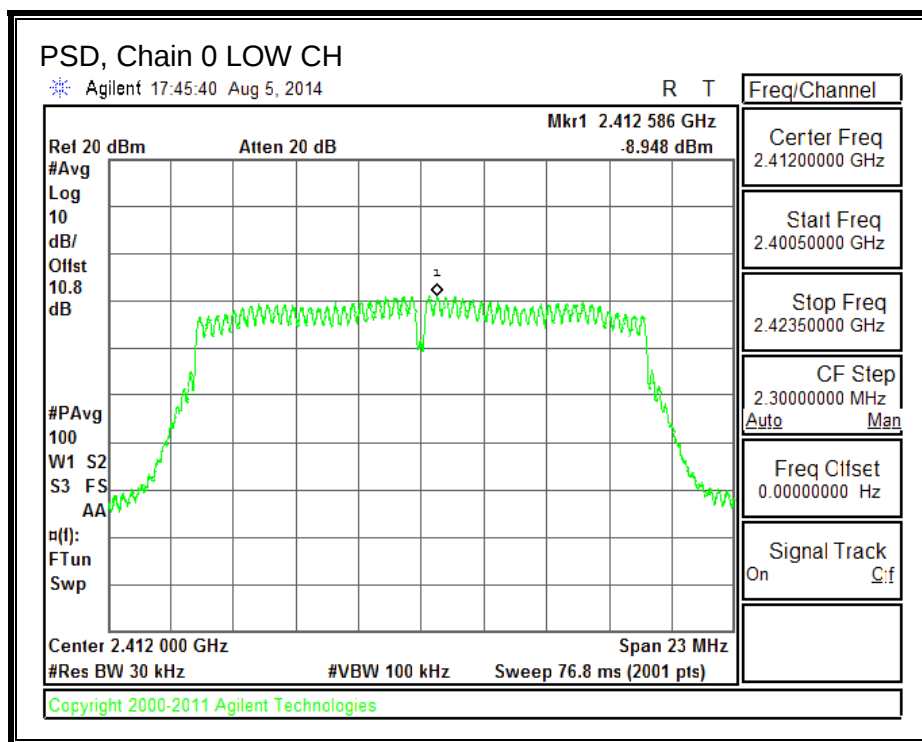
The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

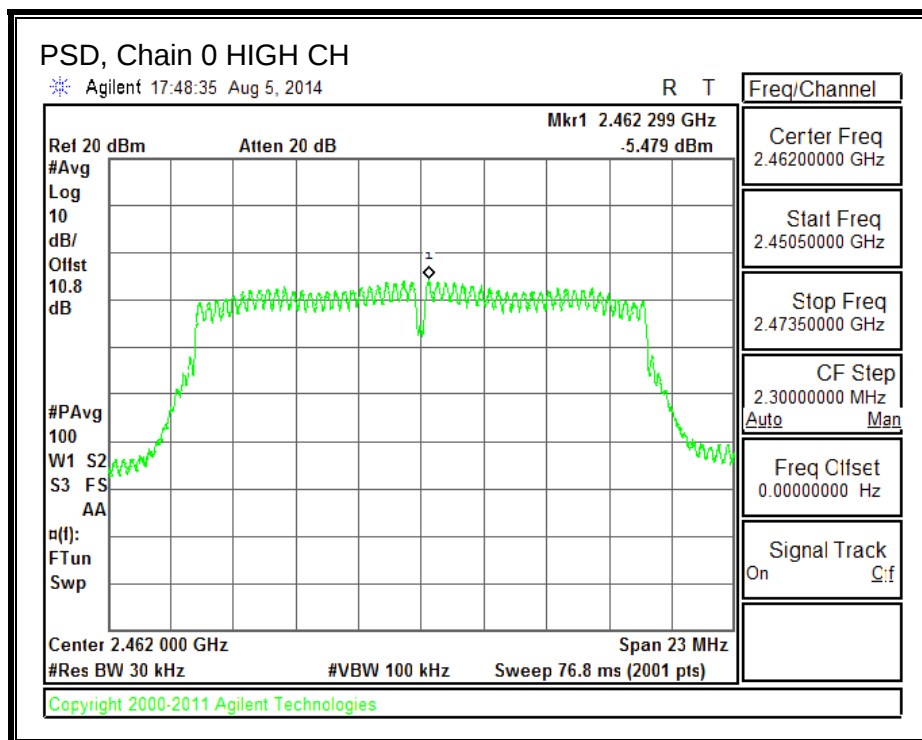
RESULTS

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm)	DCCF (dB)	Total Corr'd PSD (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-8.498	0.000	-8.498	8.0	-16.5
Mid	2437	-5.671	0.000	-5.671	8.0	-13.7
High	2462	-5.479	0.000	-5.479	8.0	-13.5

PSD





8.2.5. OUT-OF-BAND EMISSIONS

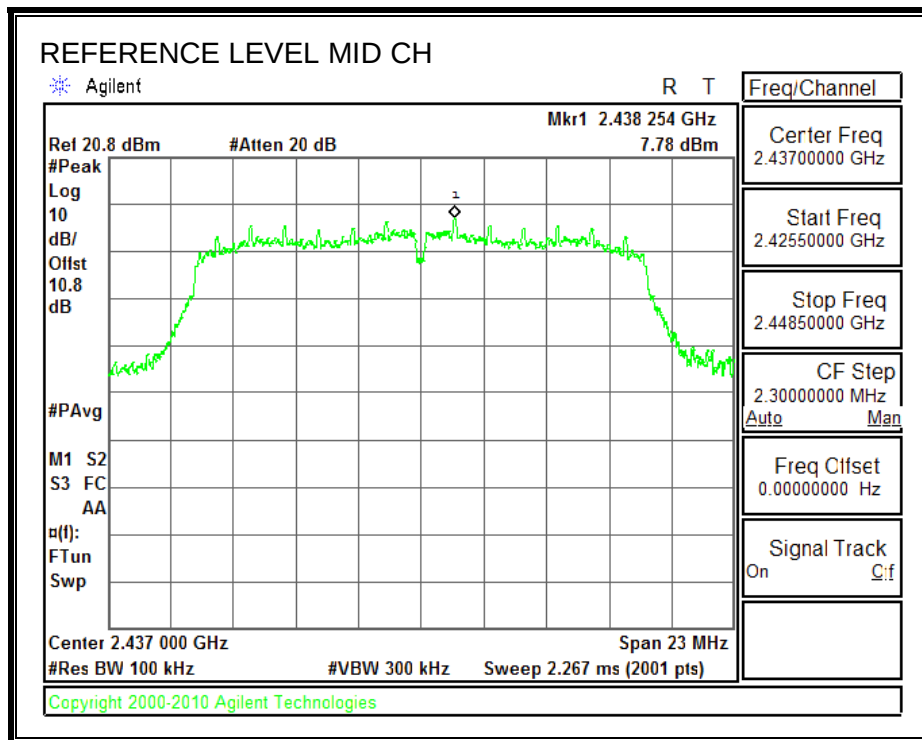
LIMITS

FCC §15.247 (d)

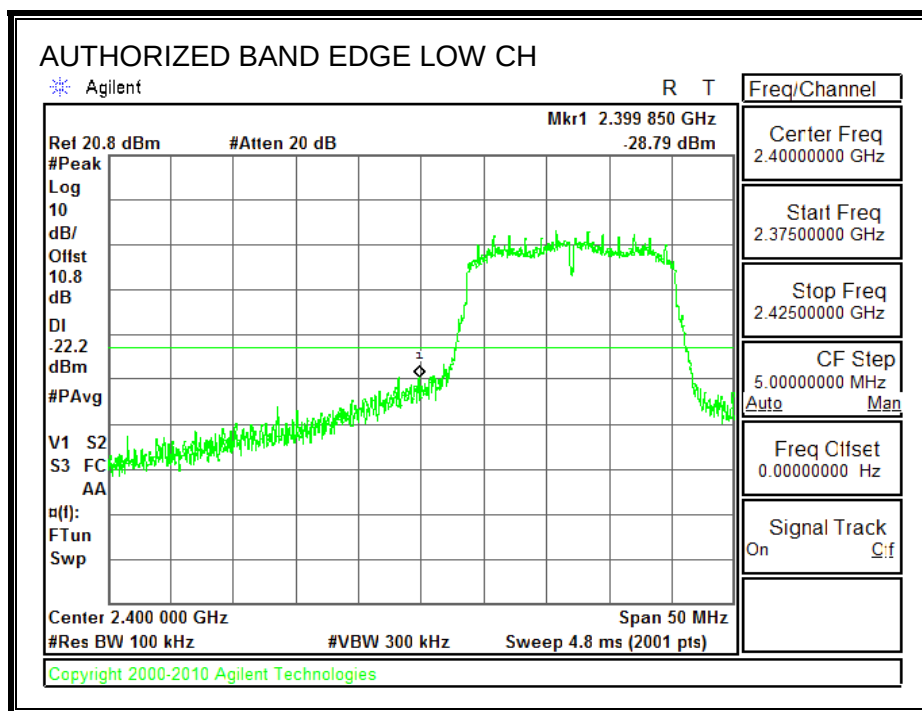
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

RESULTS

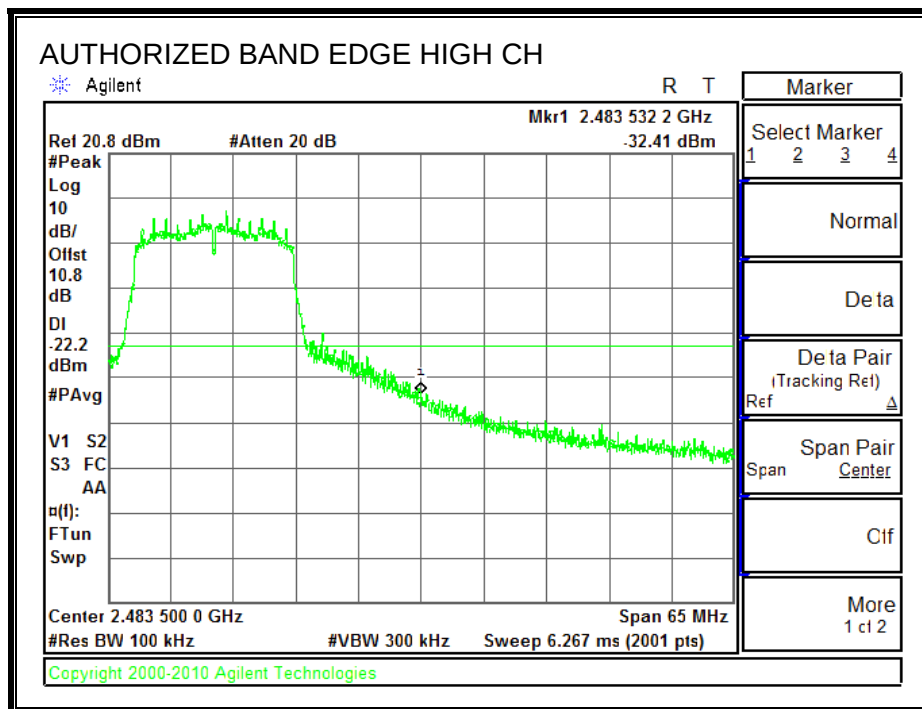
IN-BAND REFERENCE LEVEL



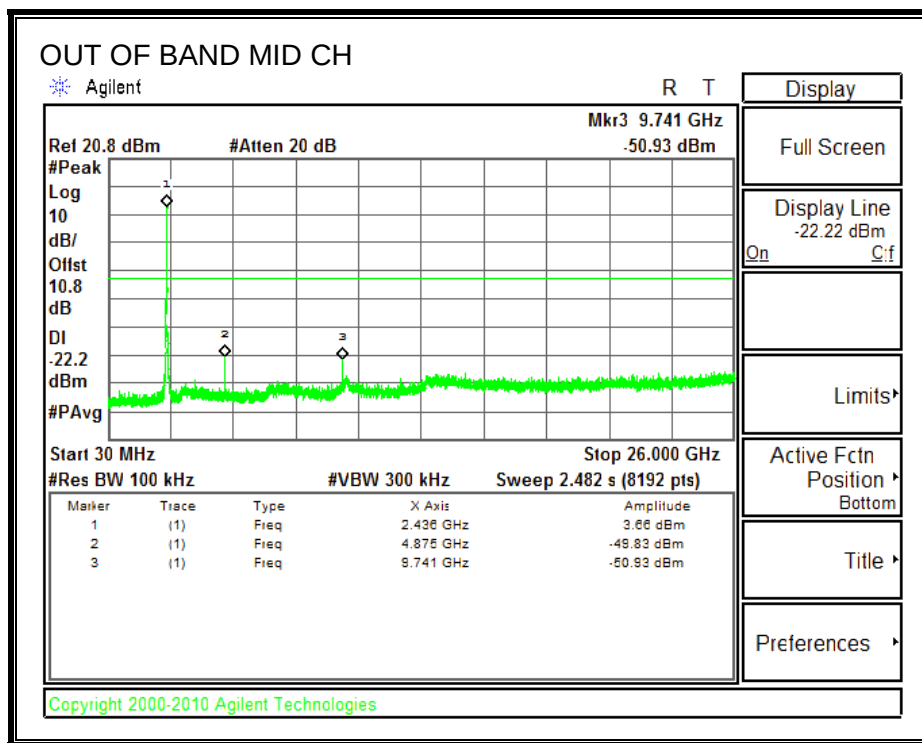
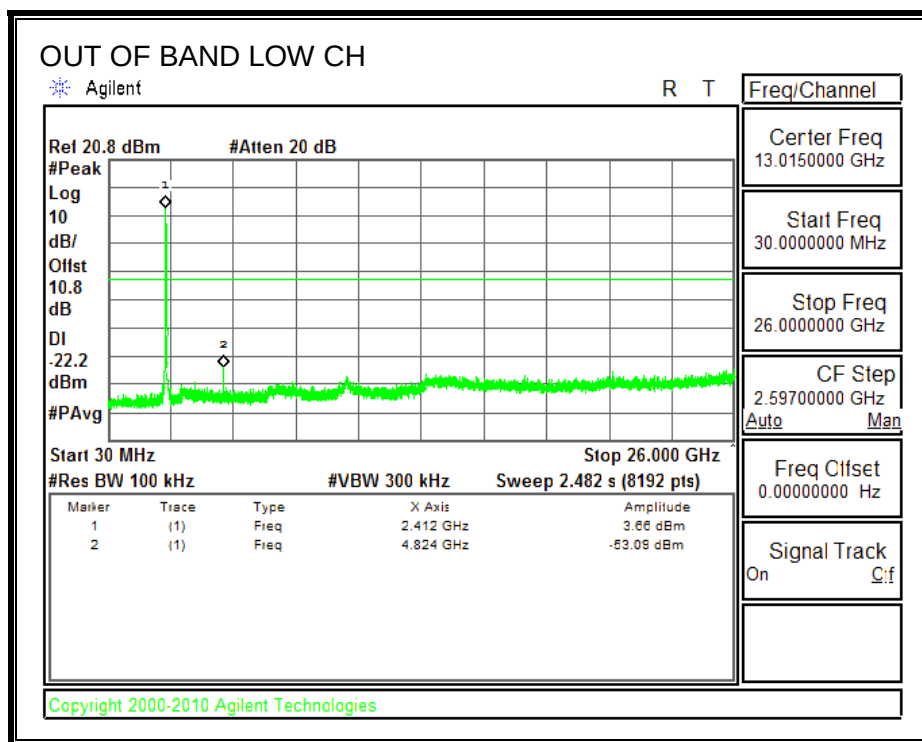
LOW CHANNEL BANDEDGE

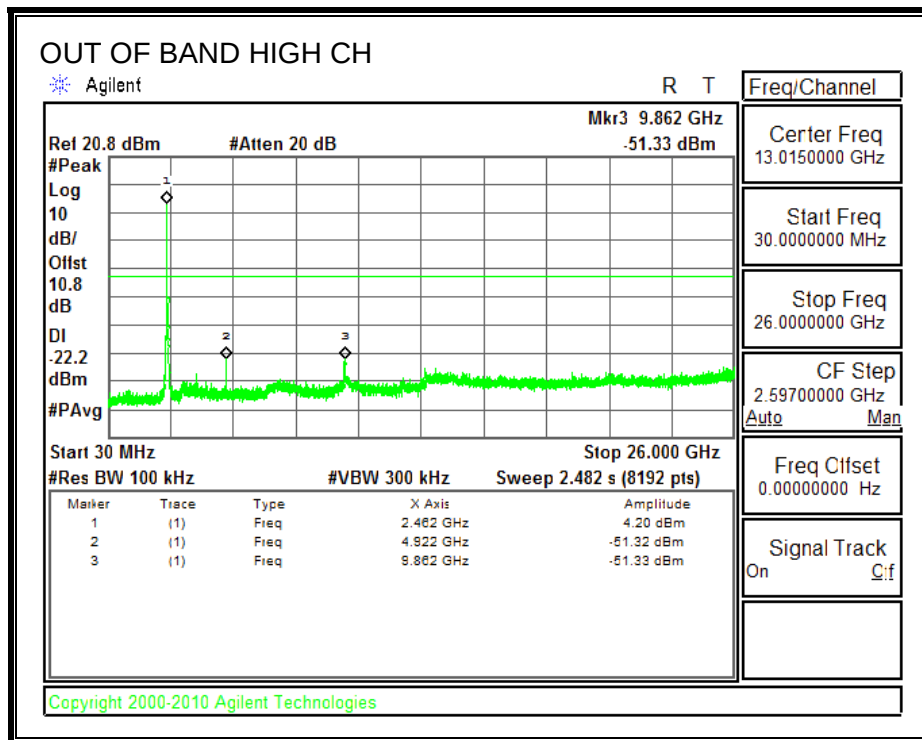


HIGH CHANNEL BANDEDGE



OUT-OF-BAND EMISSIONS





8.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

8.3.1. 6 dB BANDWIDTH

LIMITS

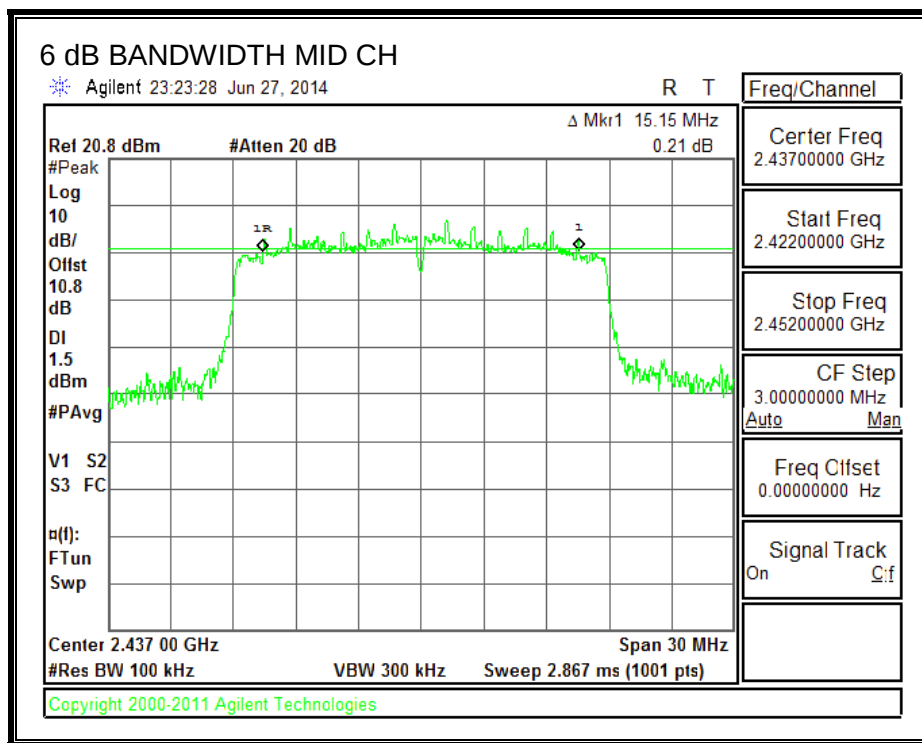
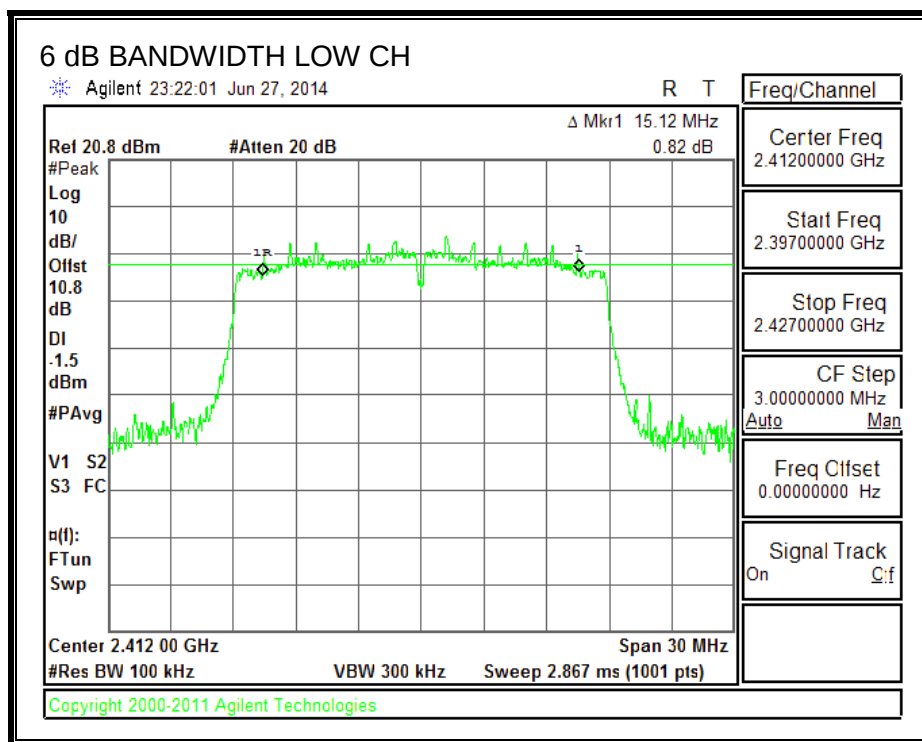
FCC §15.247 (a) (2)

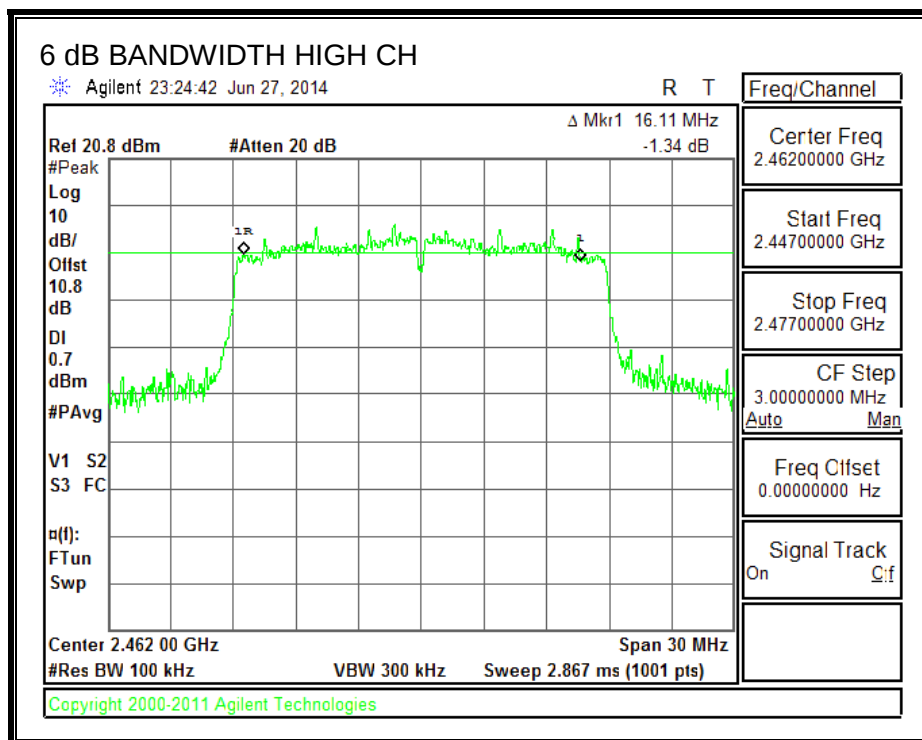
The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2412	15.12	0.5
Mid	2437	15.15	0.5
High	2462	16.11	0.5

6 dB BANDWIDTH





8.3.2. 99% BANDWIDTH

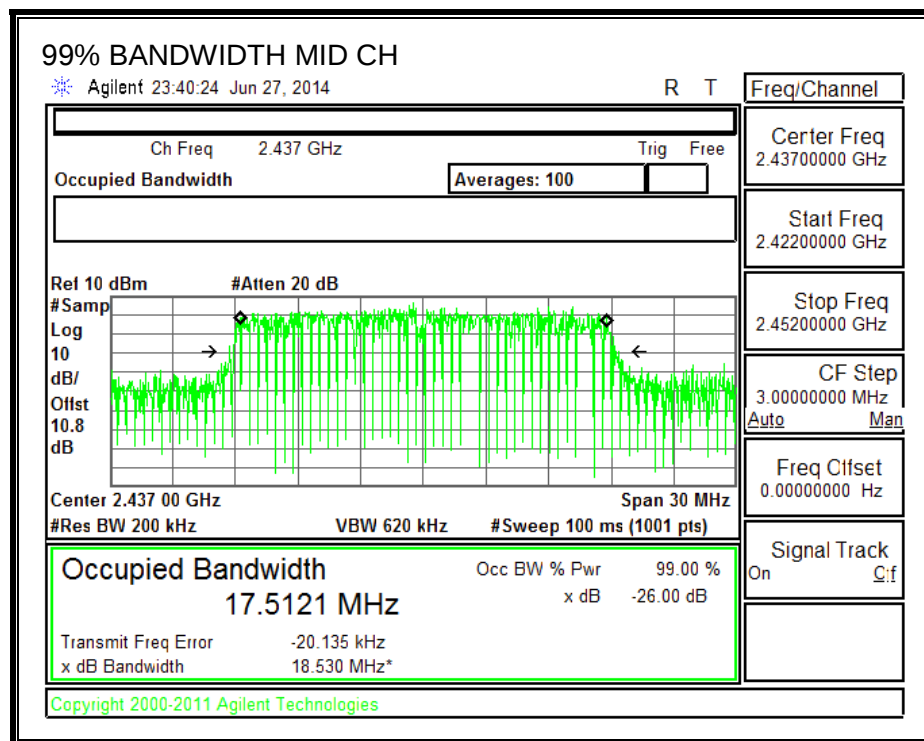
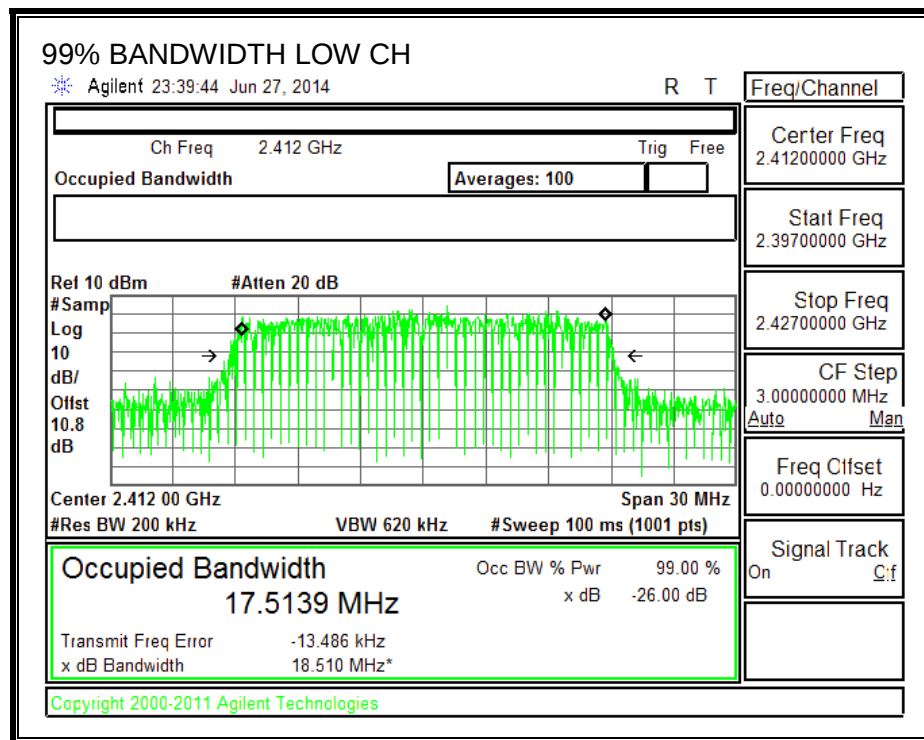
LIMITS

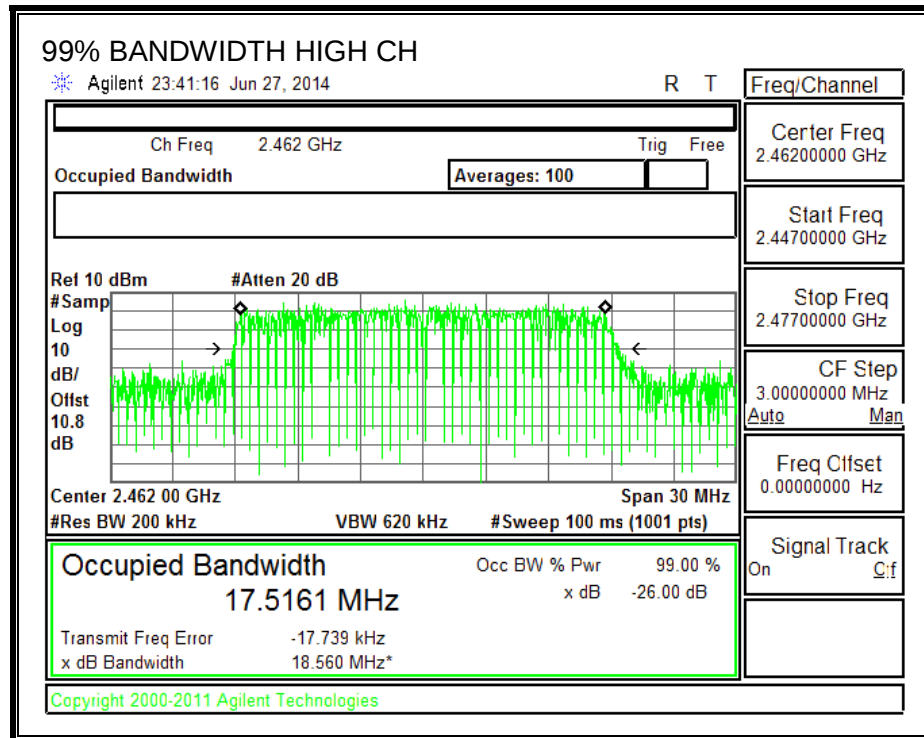
None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2412	17.5139
Mid	2437	17.5121
High	2462	17.5161

99% BANDWIDTH





8.3.3. OUTPUT POWER

LIMITS

FCC §15.247 (a) (2)

For systems using digital modulation in the 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low	2412	3.20	30.00	30	36	30.00
Mid	2437	3.20	30.00	30	36	30.00
High	2462	3.20	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low	2412	13.98	13.98	30.00	-16.02
Mid	2437	17.12	17.12	30.00	-12.88
High	2462	17.05	17.05	30.00	-12.95

Note: the power readings above are measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

8.3.4. PSD

LIMITS

FCC §15.247(e)

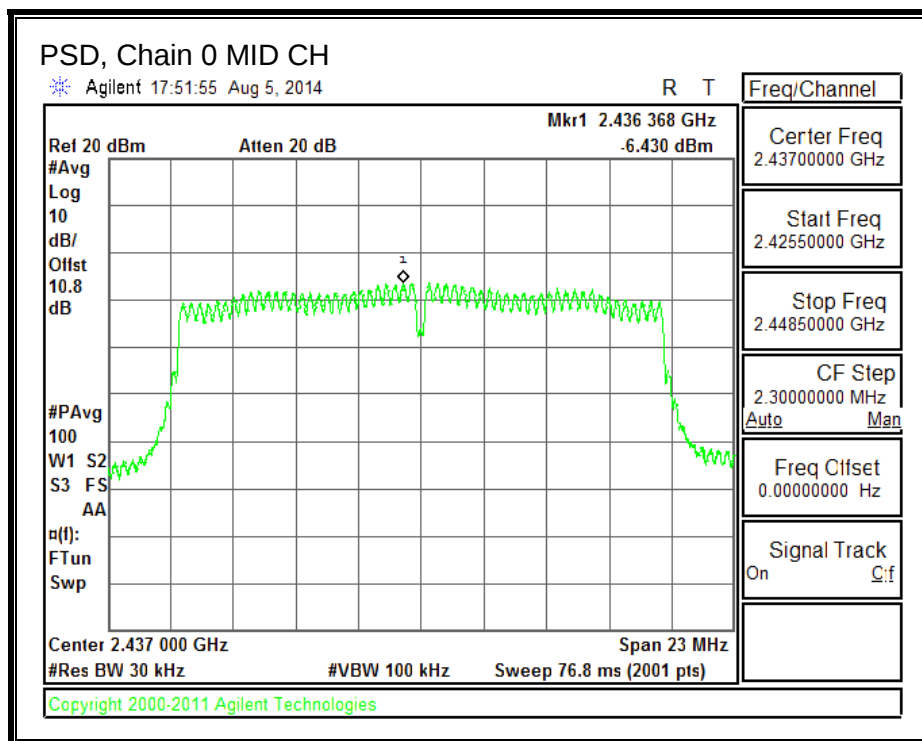
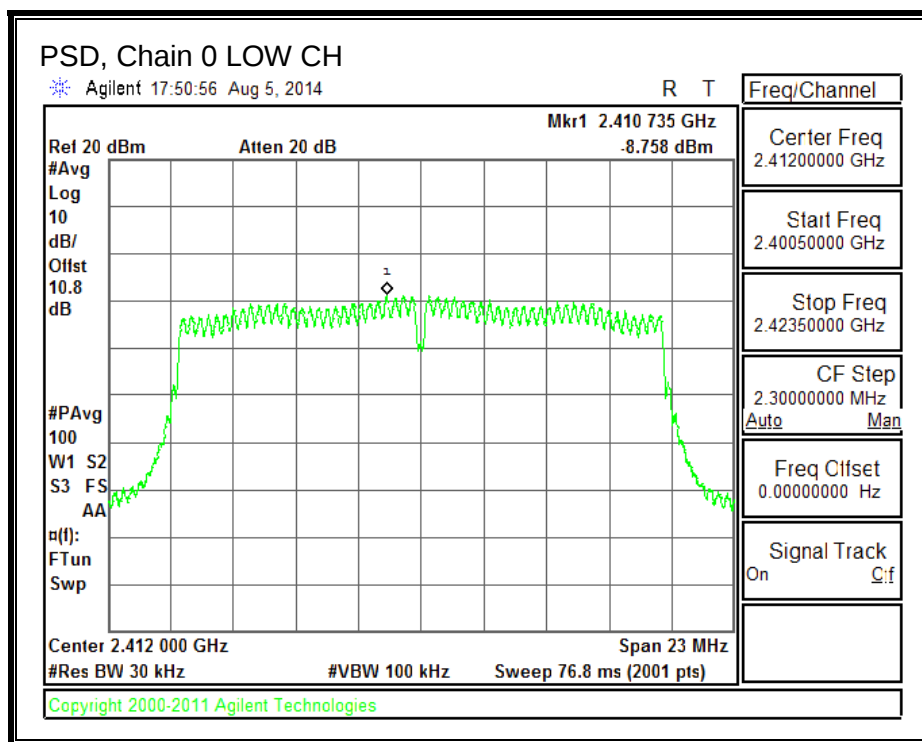
The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

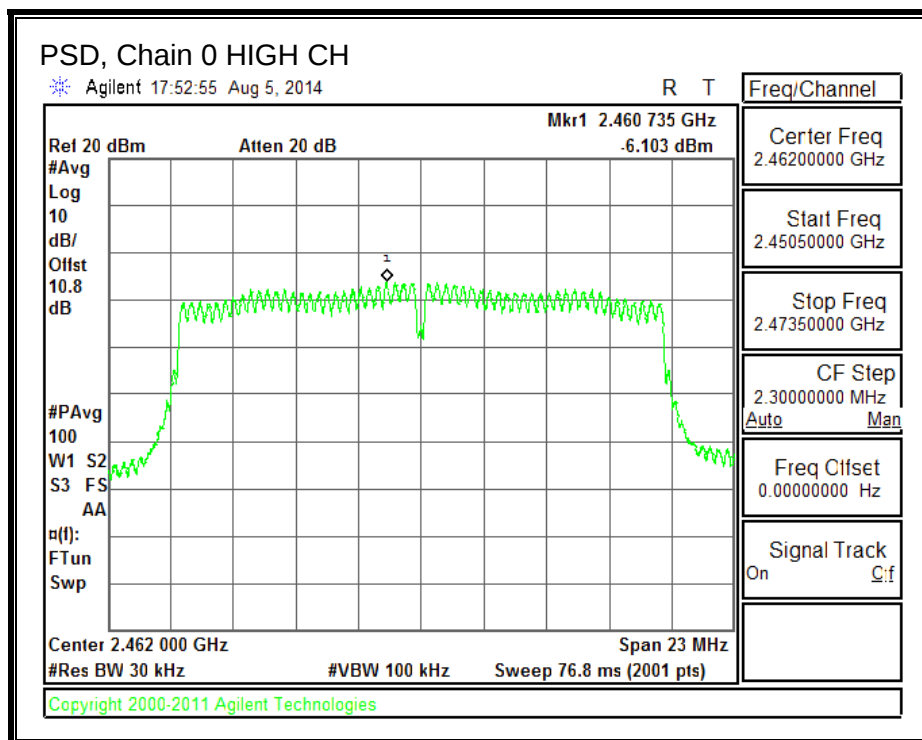
RESULTS

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm)	DCCF (dB)	Total Corr'd PSD (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-8.758	0.000	-8.758	8.0	-16.8
Mid	2437	-6.430	0.000	-6.430	8.0	-14.4
High	2462	-6.103	0.000	-6.103	8.0	-14.1

PSD





8.3.5. OUT-OF-BAND EMISSIONS

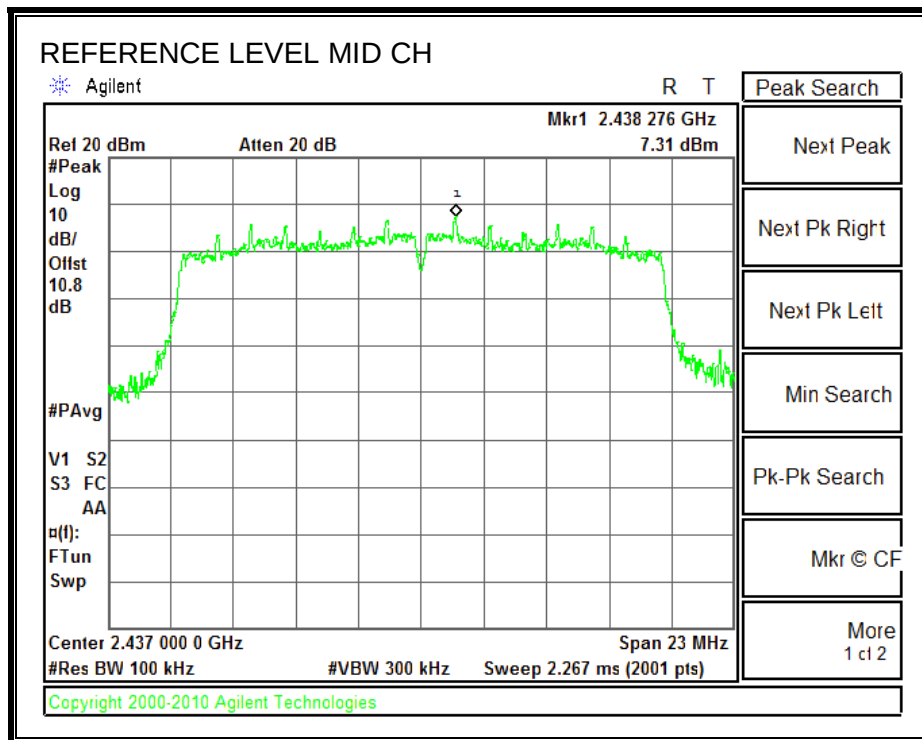
LIMITS

FCC §15.247 (d)

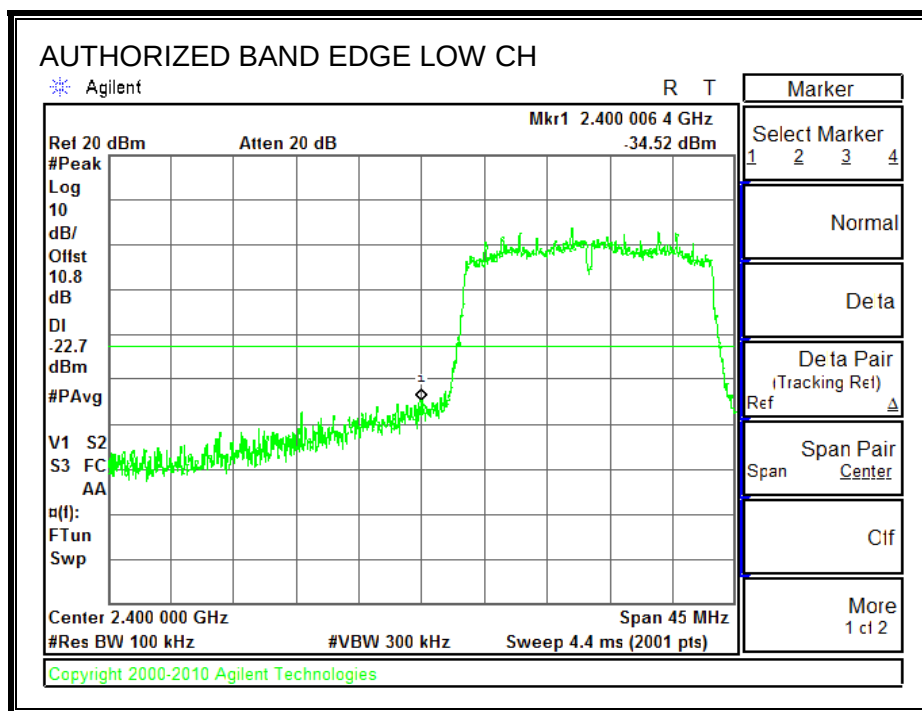
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

RESULTS

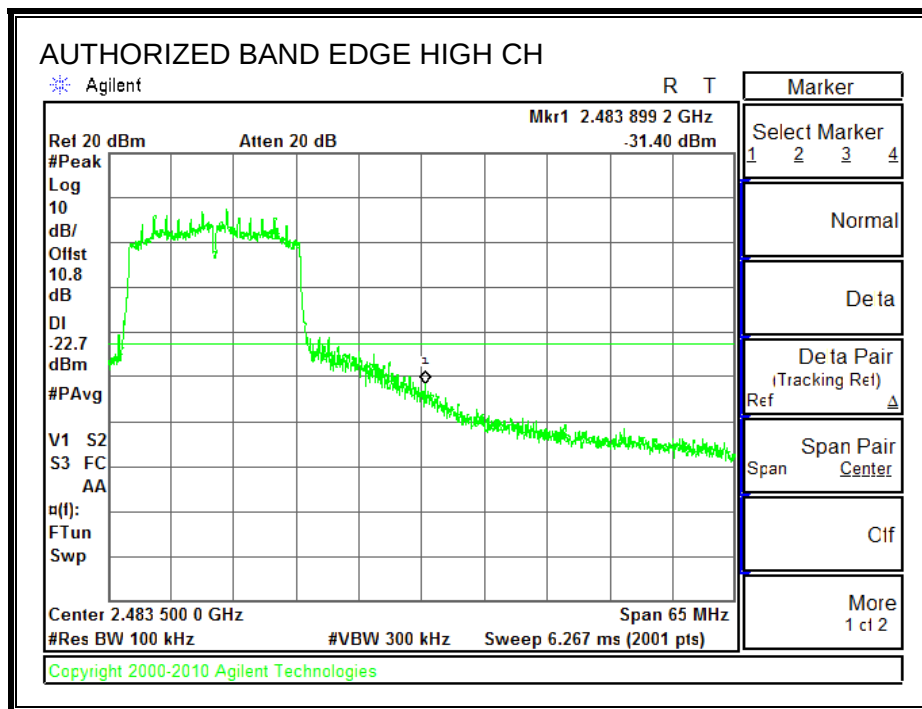
IN-BAND REFERENCE LEVEL



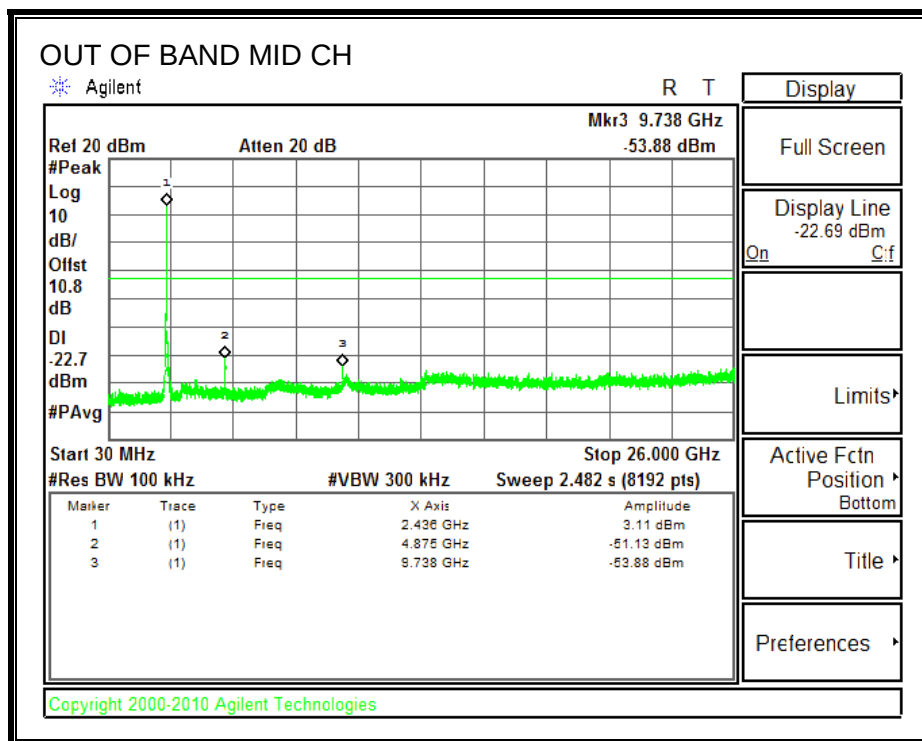
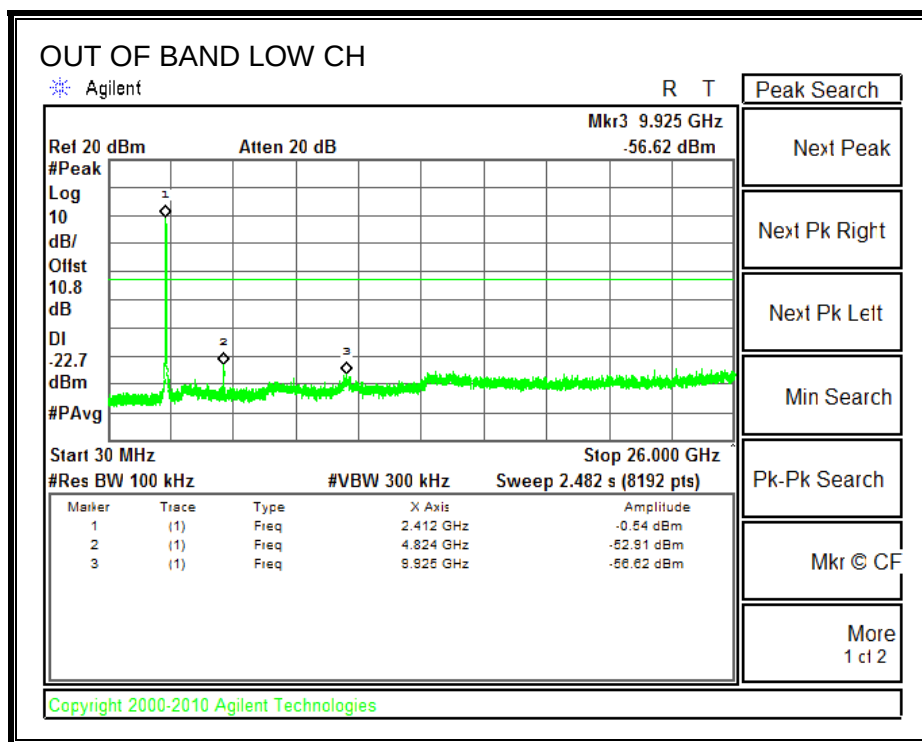
LOW CHANNEL BANDEDGE

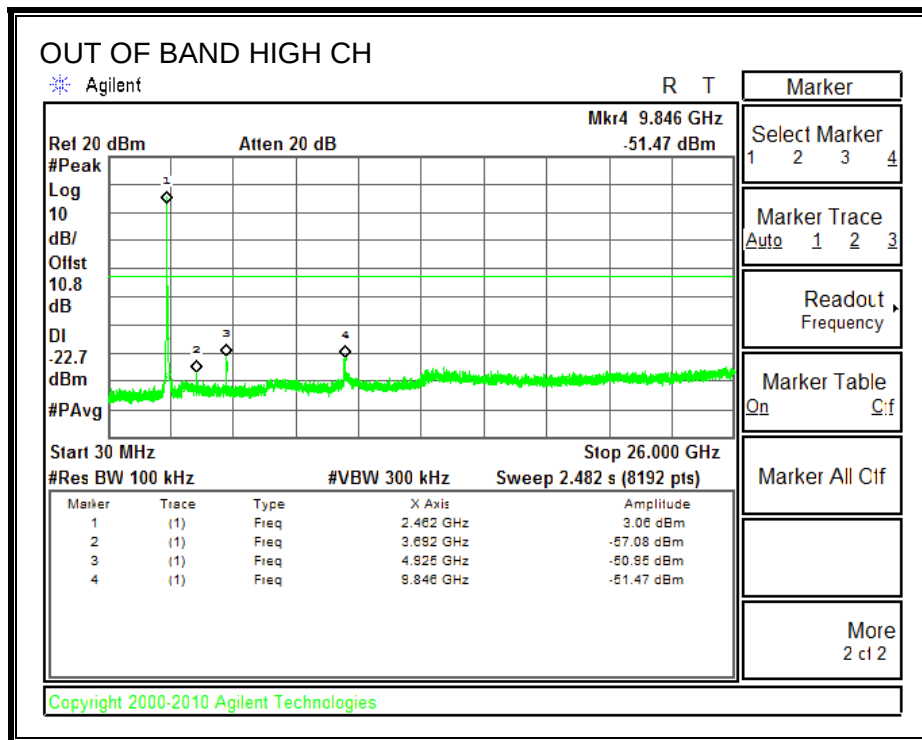


HIGH CHANNEL BANDEDGE



OUT-OF-BAND EMISSIONS





8.4. 802.11n HT40 MODE IN THE 2.4 GHz BAND

8.4.1. 6 dB BANDWIDTH

LIMITS

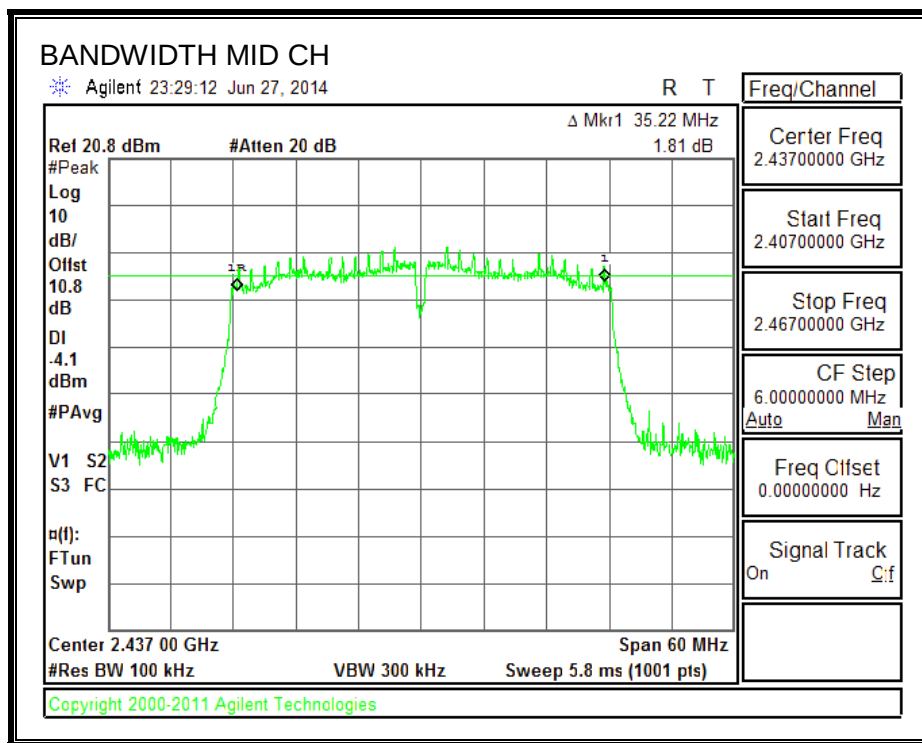
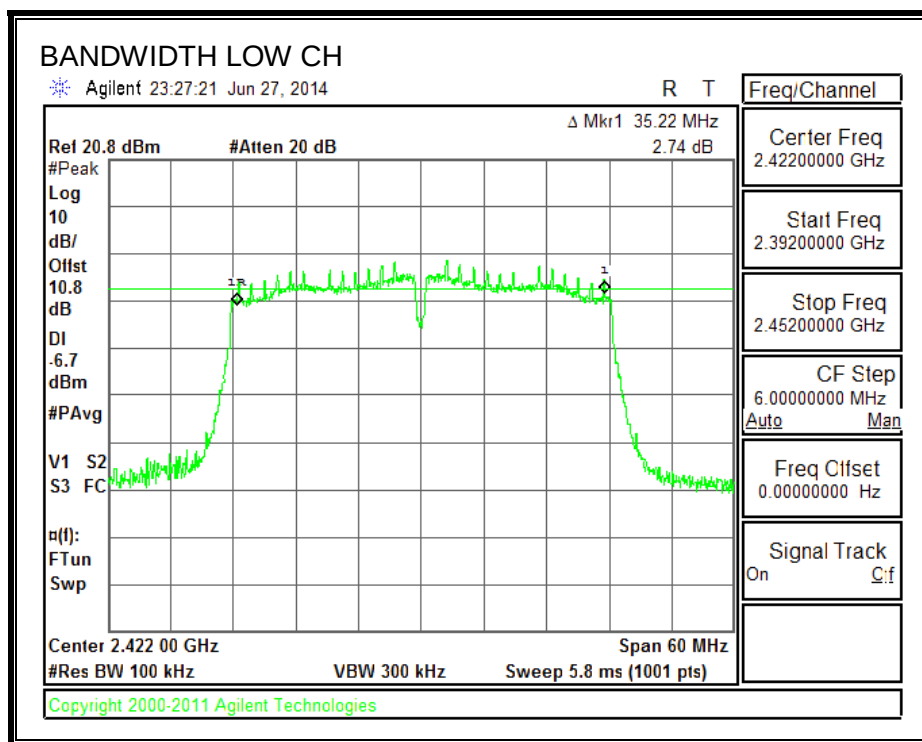
FCC §15.247 (a) (2)

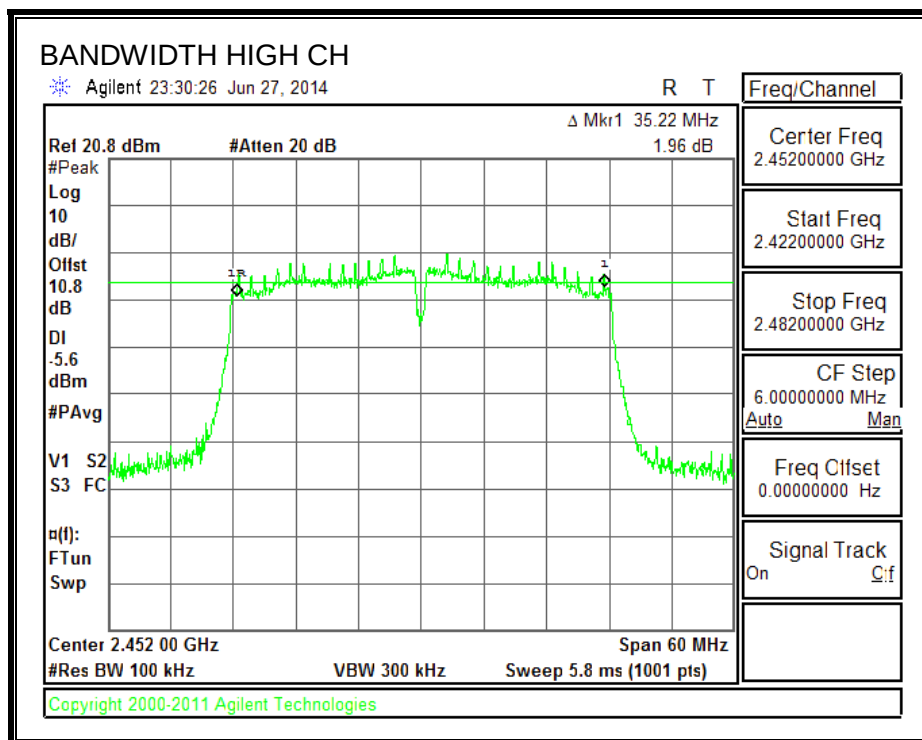
The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2422	35.22	0.5
Mid	2437	35.22	0.5
High	2452	35.22	0.5

6 dB BANDWIDTH





8.4.2. 99% BANDWIDTH

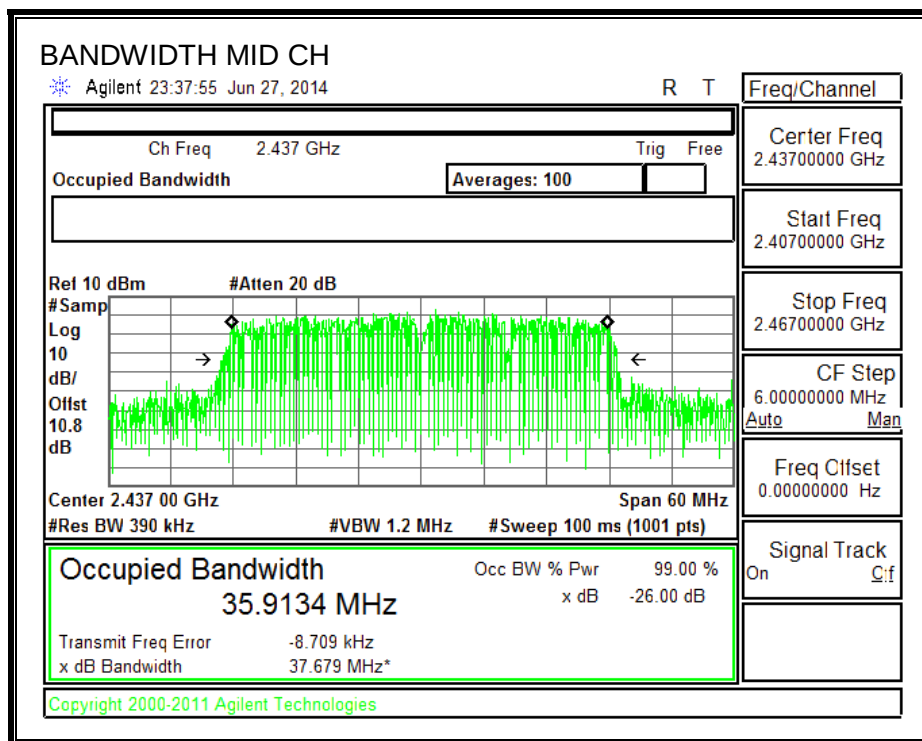
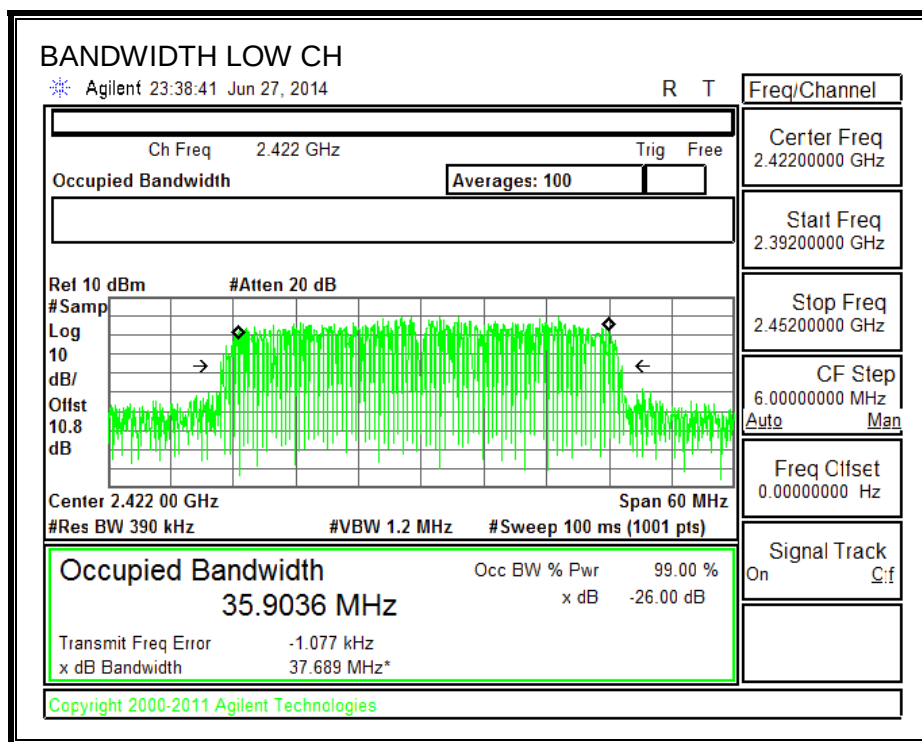
LIMITS

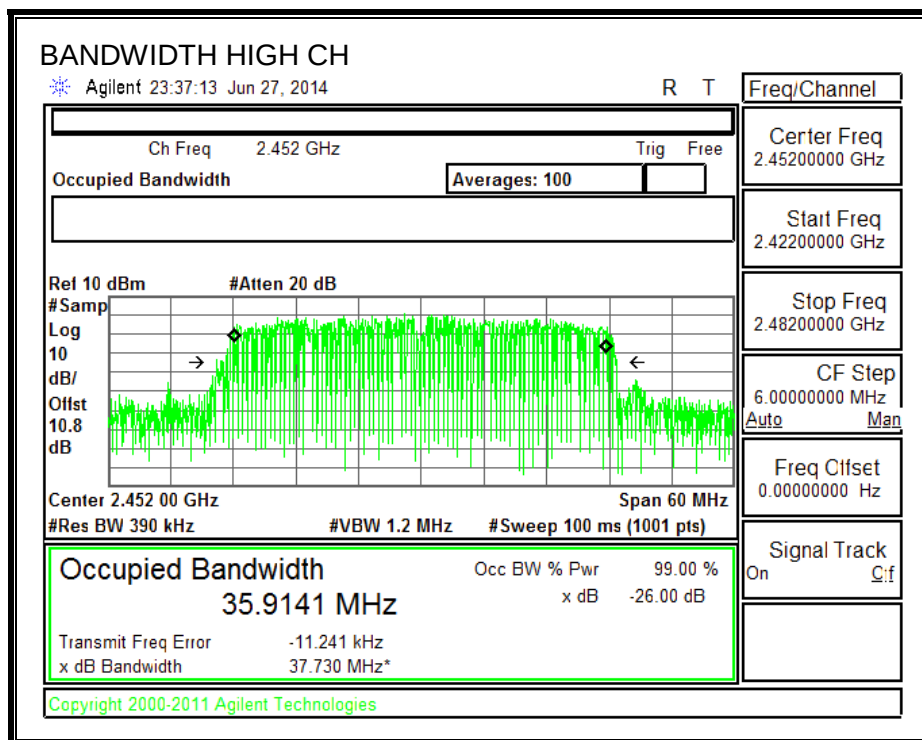
None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2422	35.9036
Mid	2437	35.9134
High	2452	35.9141

99% BANDWIDTH





8.4.3. OUTPUT POWER

LIMITS

FCC §15.247

For systems using digital modulation in the 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low	2422	3.20	30.00	30	36	30.00
Mid	2437	3.20	30.00	30	36	30.00
High	2452	3.20	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low	2422	11.06	11.06	30.00	-18.94
Mid	2437	14.20	14.20	30.00	-15.80
High	2452	12.12	12.12	30.00	-17.88

Note: the power readings above are measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

8.4.4. PSD

LIMITS

FCC §15.247(e)

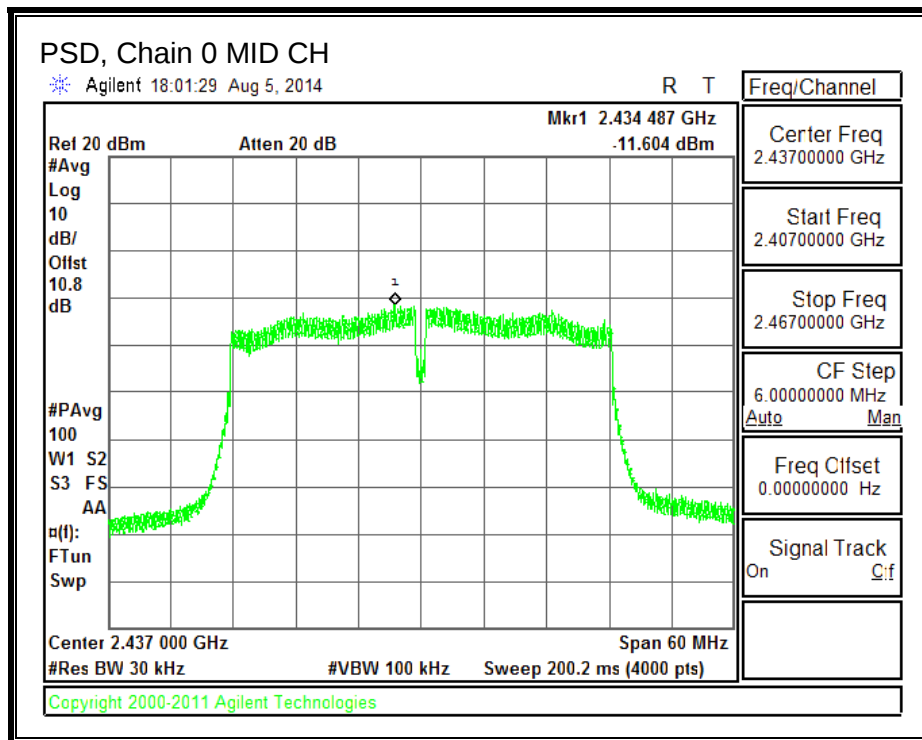
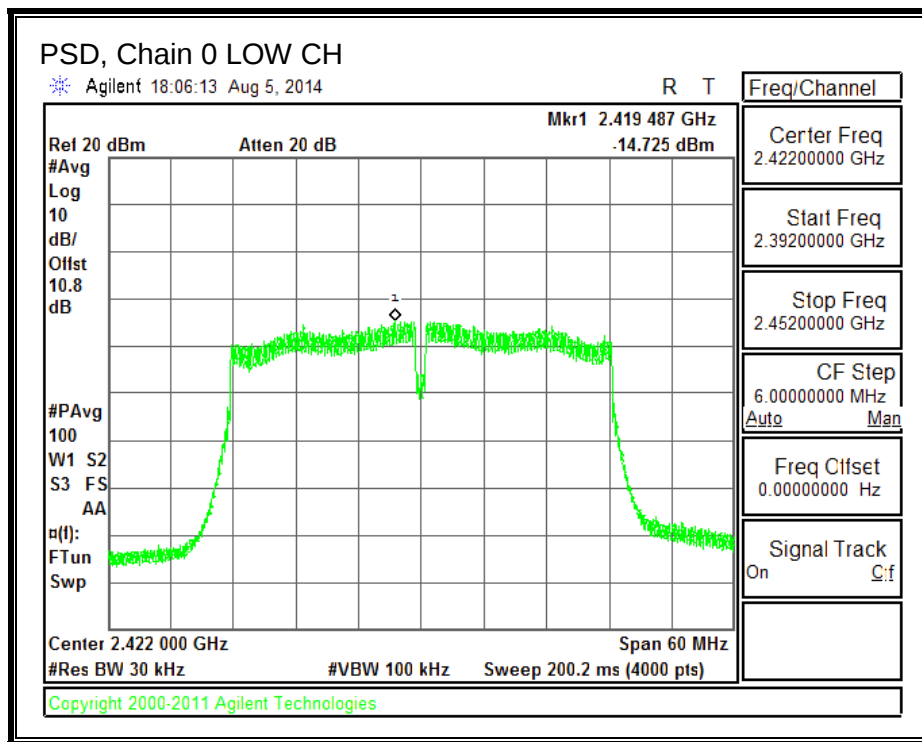
The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

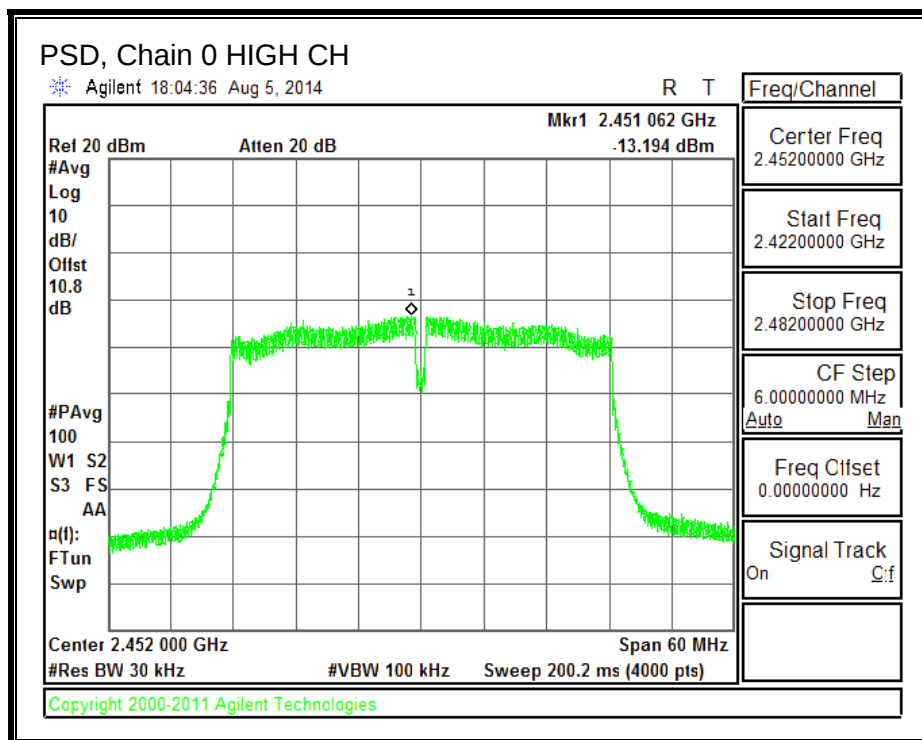
RESULTS

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm)	DCCF (dB)	Total Corr'd PSD (dBm)	Limit (dBm)	Margin (dB)
Low	2422	-14.725	0.140	-14.585	8.0	-22.6
Mid	2437	-11.604	0.140	-11.464	8.0	-19.5
High	2452	-13.194	0.140	-13.054	8.0	-21.1

PSD





8.4.5. OUT-OF-BAND EMISSIONS

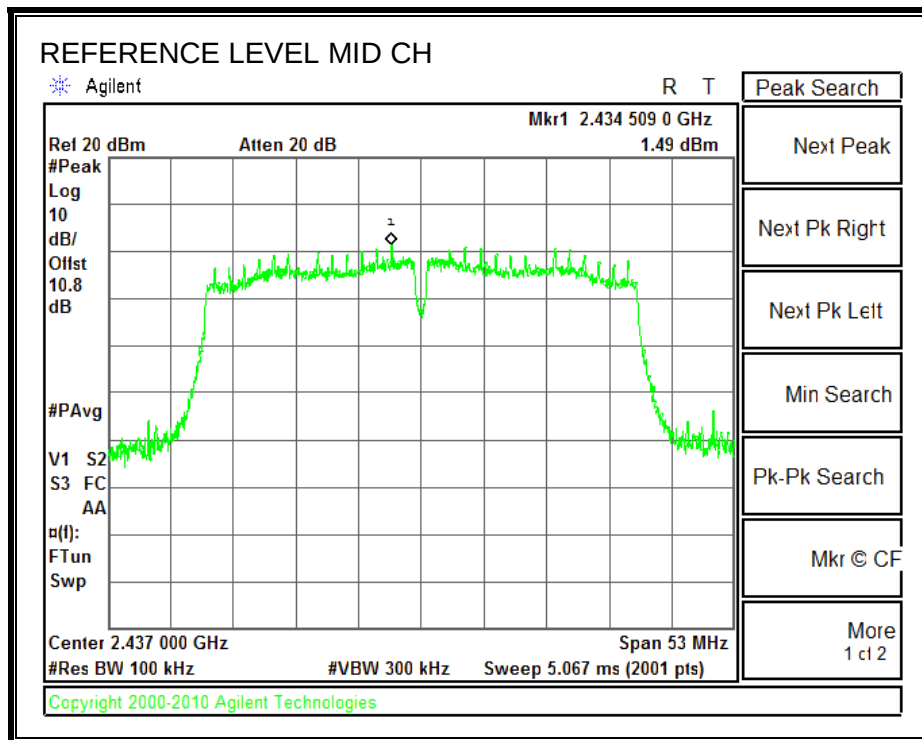
LIMITS

FCC §15.247 (d)

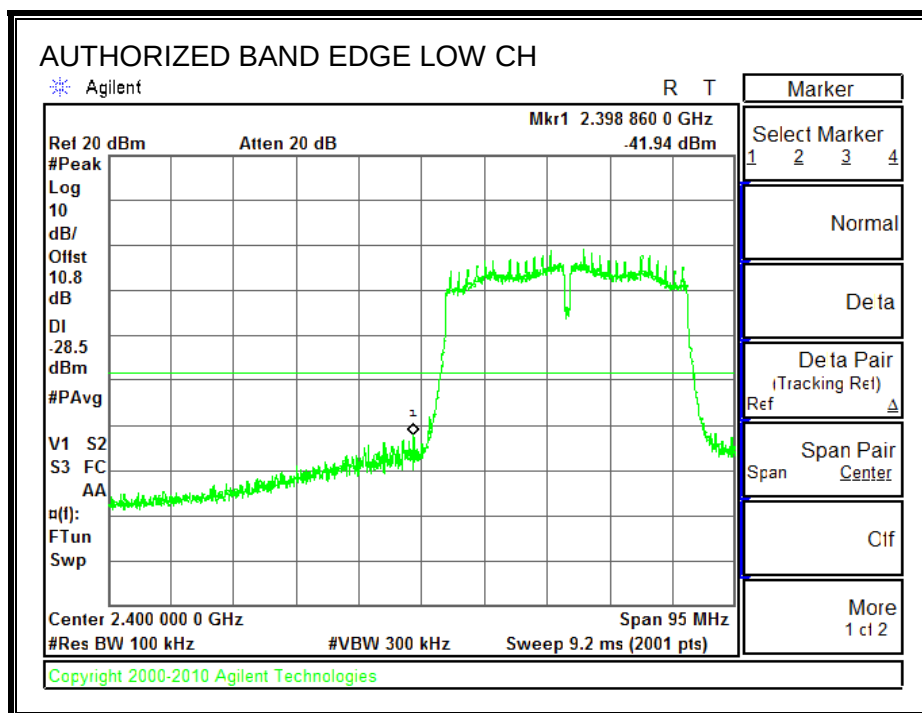
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

RESULTS

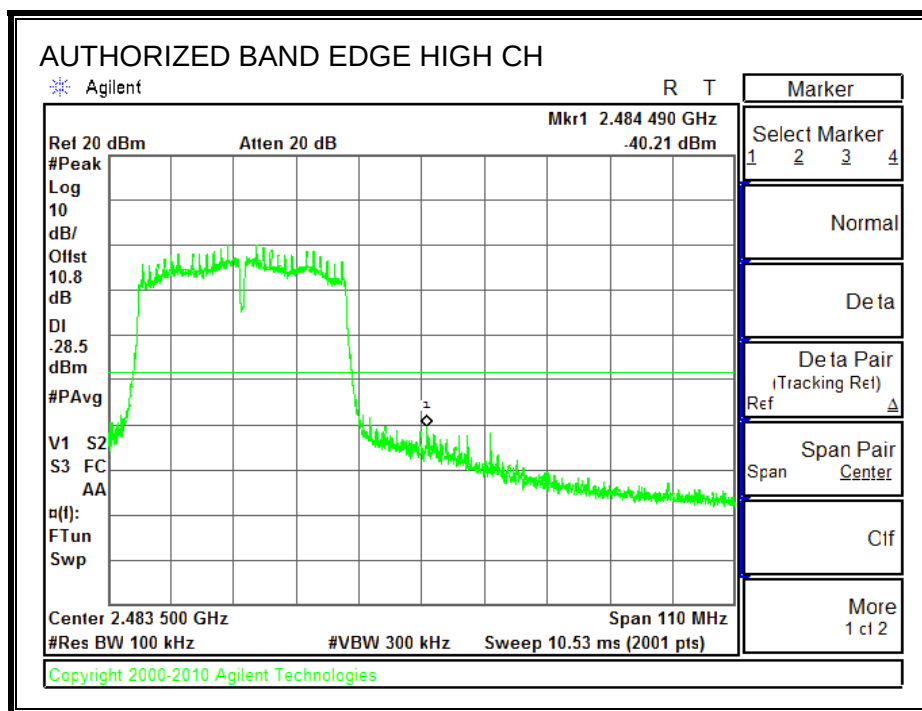
IN-BAND REFERENCE LEVEL



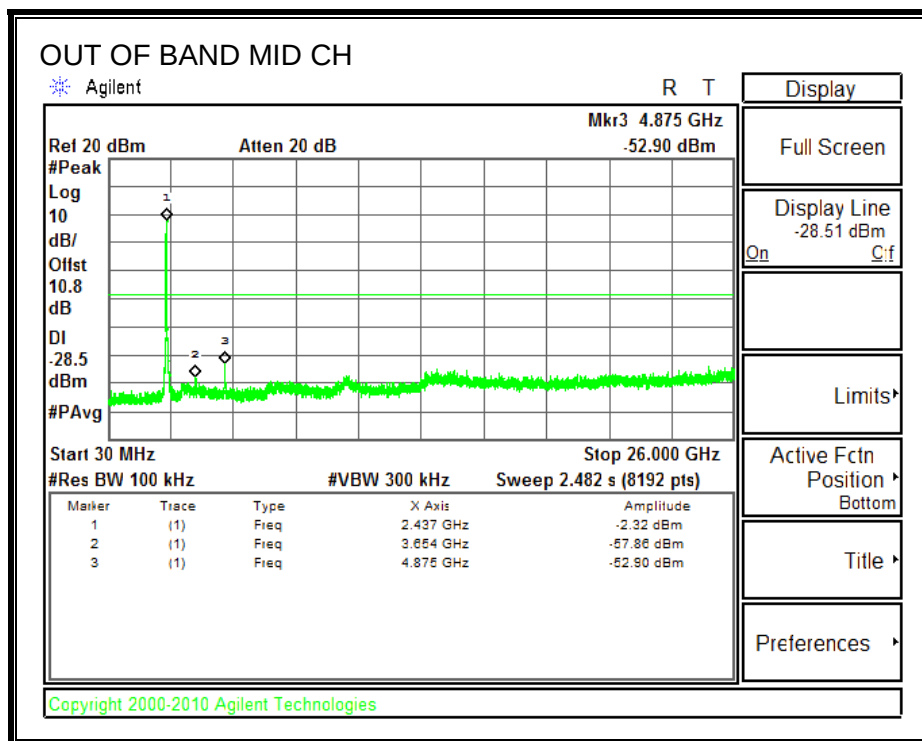
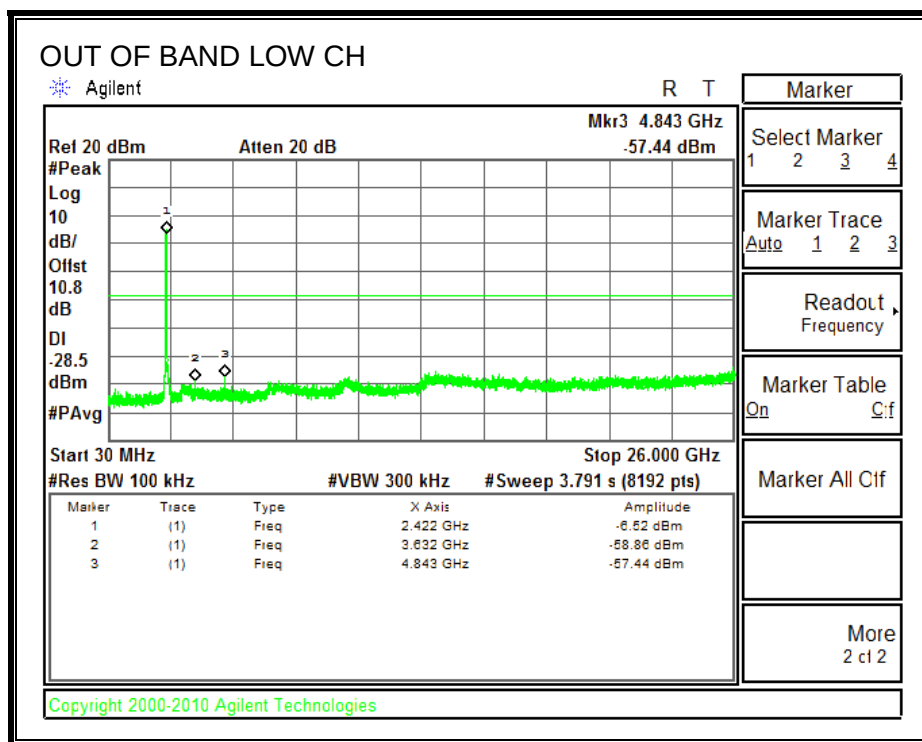
LOW CHANNEL BANDEDGE

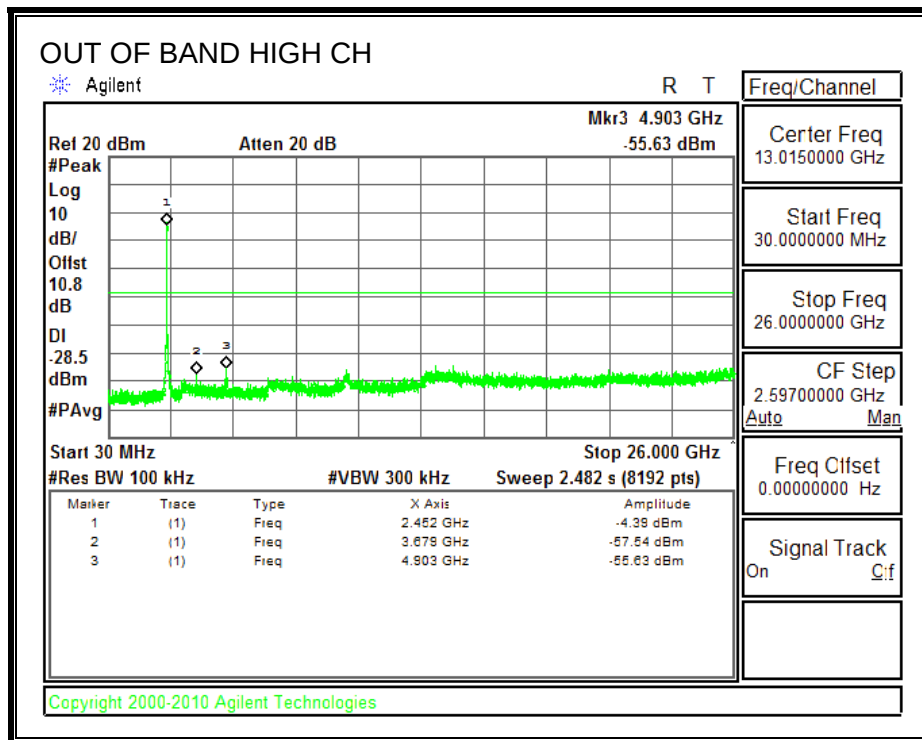


HIGH CHANNEL BANDEDGE



OUT-OF-BAND EMISSIONS





9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

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.

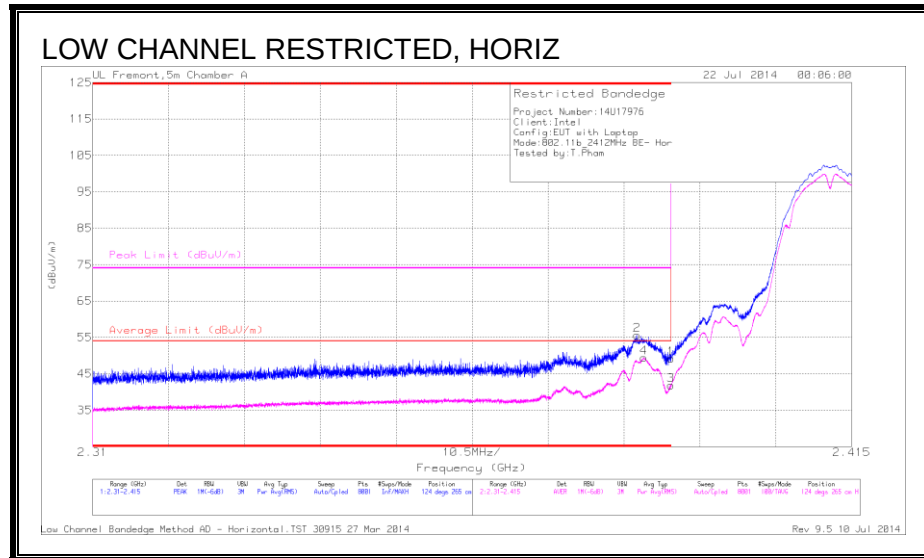
For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 1 MHz for peak measurements and as applicable for average measurements.

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

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

9.2. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

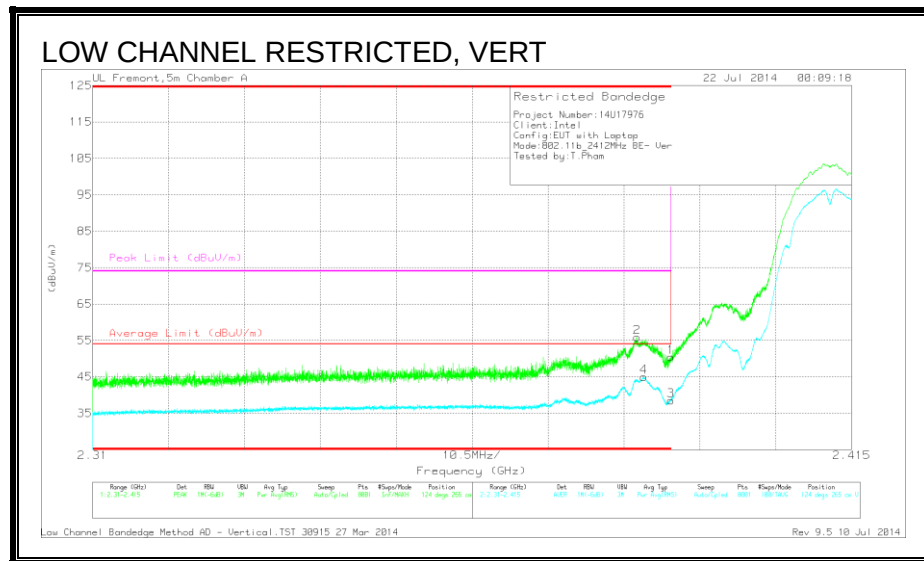


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.39	PK	32.2	-24.4	0	49.19	-	-	74	-24.81	124	265	H
2	* 2.385	47.32	PK	32.2	-23.9	0	55.62	-	-	74	-18.38	124	265	H
3	* 2.39	34.03	RMS	32.2	-24.4	0	41.83	54	-12.17	-	-	124	265	H
4	* 2.386	41.27	RMS	32.2	-24	0	49.47	54	-4.53	-	-	124	265	H

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

PK - Peak detector
RMS - RMS detection



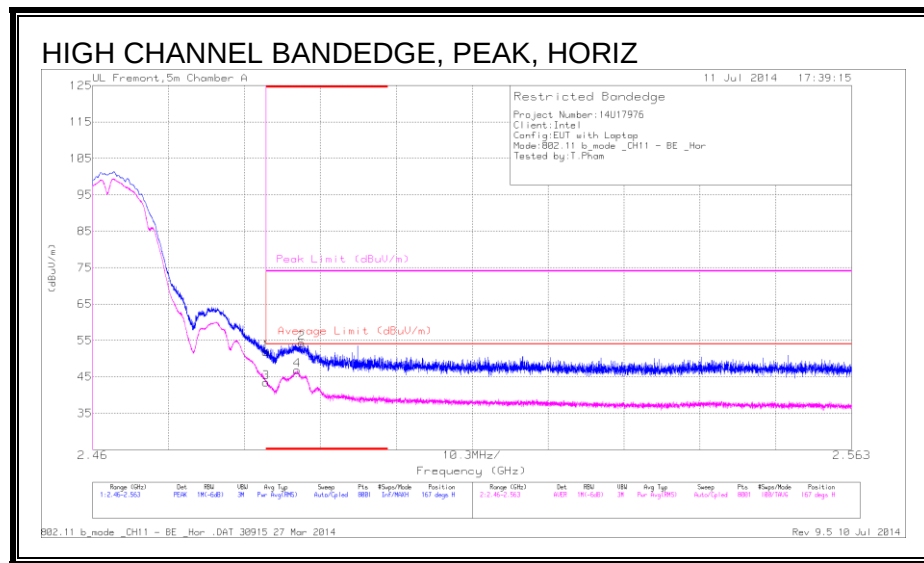
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	42.57	PK	32.2	-24.4	0	50.37	-	-	74	-23.63	124	265	V
2	* 2.385	47.6	PK	32.2	-23.9	0	55.9	-	-	74	-18.1	124	265	V
3	* 2.39	30.73	RMS	32.2	-24.4	0	38.53	54	-15.47	-	-	124	265	V
4	* 2.386	36.81	RMS	32.2	-24	0	45.01	54	-8.99	-	-	124	265	V

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

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

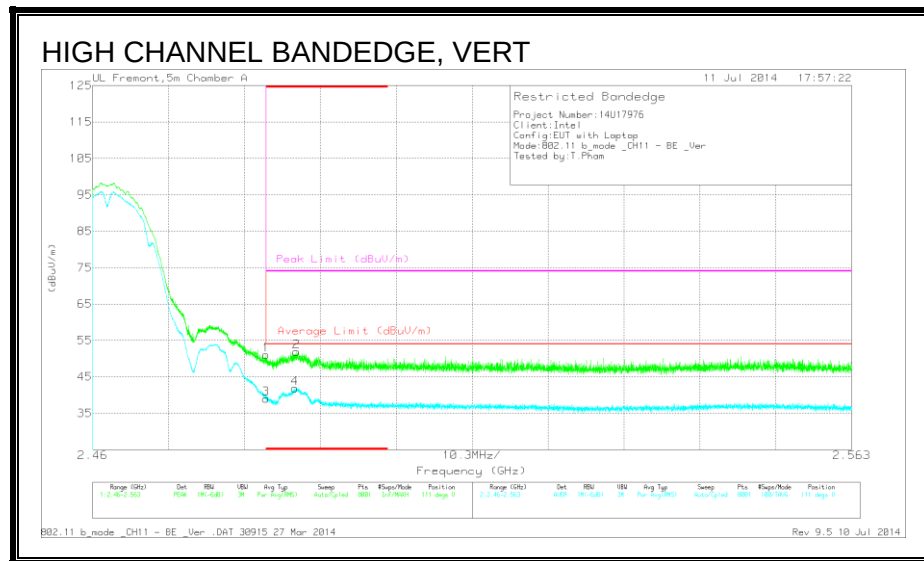


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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
1	* 2.484	42.54	PK	32.7	-23.5	0	51.74	-	-	74	-22.26	167	175	H
2	* 2.488	44.83	PK	32.8	-23.4	0	54.23	-	-	74	-19.77	167	175	H
3	* 2.484	34.29	RMS	32.7	-23.5	0	43.51	54	-10.49	-	-	167	175	H
4	* 2.488	37.38	RMS	32.8	-23.4	0	46.8	54	-7.2	-	-	167	175	H

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

PK - Peak detector
RMS - RMS detection



Trace Markers

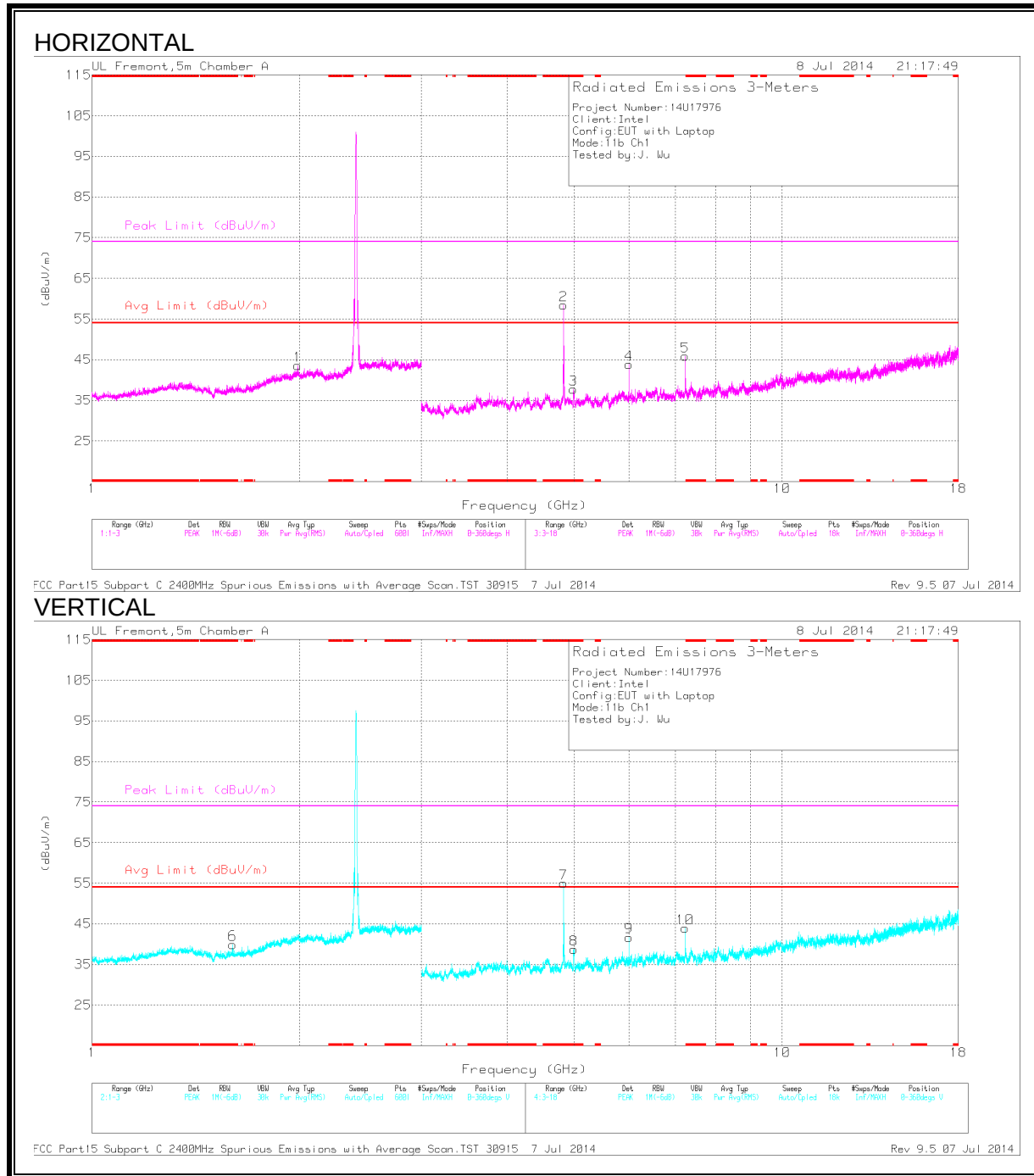
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.88	PK	32.7	-23.5	0	51.08	-	-	74	-22.92	111	182	V
2	* 2.488	42.49	PK	32.8	-23.4	0	51.89	-	-	74	-22.11	111	182	V
3	* 2.484	29.75	RMS	32.7	-23.5	0	38.97	54	-15.03	-	-	111	182	V
4	* 2.487	32.46	RMS	32.8	-23.4	0	41.88	54	-12.12	-	-	111	182	V

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

PK - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Fitr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* 1.604	43.86	PK2	28.8	-26.1	0	46.56	-	-	74	-27.44	304	284	V
	* 1.6	31.44	MAv1	28.8	-25.9	0	34.34	54	-19.66	-	-	304	284	V
2	* 4.824	51.98	PK2	34	-29.4	0	56.58	-	-	74	-17.42	359	265	H
	* 4.824	49.36	MAv1	34	-29.4	0	53.96	54	-.04	-	-	359	265	H
3	* 4.993	41.68	PK2	33.9	-30.1	0	45.48	-	-	74	-28.52	147	120	H
	* 4.986	28.72	MAv1	33.9	-30.2	0	32.42	54	-21.58	-	-	147	120	H
7	* 4.824	48.35	PK2	34	-29.5	0	52.85	-	-	74	-21.15	3	102	V
	* 4.824	44.88	MAv1	34	-29.4	0	49.48	54	-4.52	-	-	3	102	V
8	* 4.992	44.82	PK2	33.9	-30.1	0	48.62	-	-	74	-25.38	153	104	V
	* 4.991	30.47	MAv1	33.9	-30.1	0	34.27	54	-19.73	-	-	153	104	V
1	1.986	36.02	PK	32	-24.4	0	43.62	-	-	-	-	0-360	201	H
4	6	37.28	PK	35.3	-28.8	0	43.78	-	-	-	-	0-360	201	H
9	6	35.23	PK	35.3	-28.8	0	41.73	-	-	-	-	0-360	201	V
5	7.236	36.76	PK	35.2	-26.1	0	45.86	-	-	-	-	0-360	201	H
10	7.236	34.9	PK	35.2	-26.1	0	44	-	-	-	-	0-360	201	V

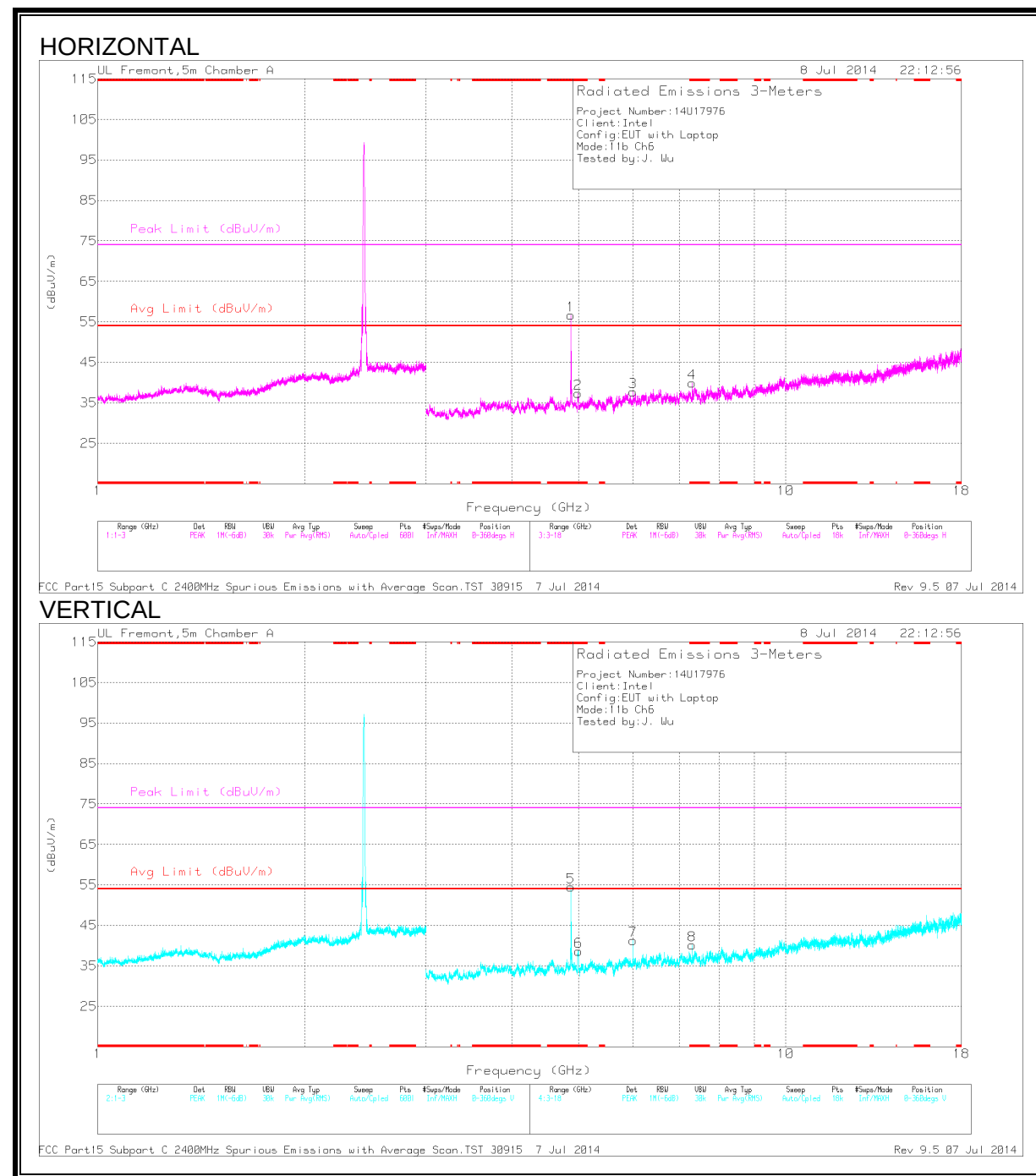
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Fitr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.874	50.69	PK2	34	-28.3	0	56.39	-	-	74	-17.61	0	288	H
	* 4.874	48.14	MAv1	34	-28.3	0	53.84	54	-.16	-	-	0	288	H
2	* 4.995	43.18	PK2	33.9	-30.1	0	46.98	-	-	74	-27.02	142	191	H
	* 4.991	29.36	MAv1	33.9	-30.1	0	33.16	54	-20.84	-	-	142	191	H
4	* 7.31	38.35	PK2	35.2	-27.2	0	46.35	-	-	74	-27.65	330	141	H
	* 7.312	27.58	MAv1	35.2	-27.1	0	35.68	54	-18.32	-	-	330	141	H
5	* 4.874	46.5	PK2	34	-28.3	0	52.2	-	-	74	-21.8	0	348	V
	* 4.874	42.95	MAv1	34	-28.3	0	48.65	54	-5.35	-	-	0	348	V
6	* 4.995	43.67	PK2	33.9	-30.1	0	47.47	-	-	74	-26.53	145	120	V
	* 4.982	29.61	MAv1	33.9	-30.3	0	33.21	54	-20.79	-	-	145	120	V
8	* 7.309	37.4	PK2	35.2	-27.2	0	45.4	-	-	74	-28.6	33	155	V
	* 7.31	27.11	MAv1	35.2	-27.2	0	35.11	54	-18.89	-	-	33	155	V
3	6	31.25	PK	35.3	-28.8	0	37.75	-	-	-	-	0-360	201	H
7	6	34.82	PK	35.3	-28.8	0	41.32	-	-	-	-	0-360	100	V

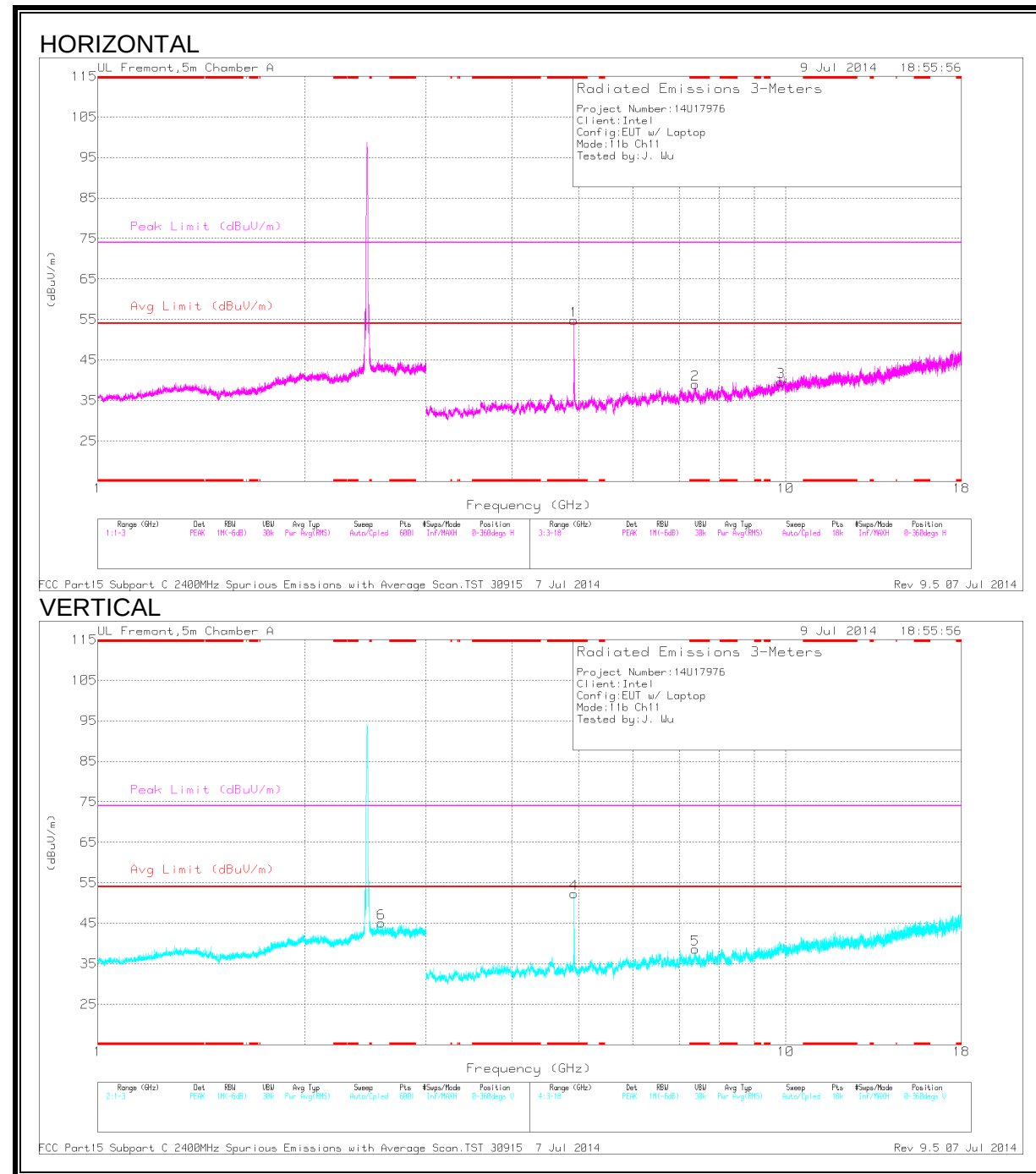
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Fitr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.924	51.31	PK2	33.9	-29	0	56.21	-	-	74	-17.79	5	256	H
	* 4.924	48.82	MAv1	33.9	-29	0	53.72	54	-.28	-	-	5	256	H
2	* 7.385	36.68	PK2	35.3	-24.3	0	47.68	-	-	74	-26.32	331	151	H
	* 7.385	25.03	MAv1	35.3	-24.3	0	36.03	54	-17.97	-	-	331	151	H
4	* 4.924	48.31	PK2	33.9	-29	0	53.21	-	-	74	-20.79	3	100	V
	* 4.924	45.2	MAv1	33.9	-29	0	50.1	54	-3.9	-	-	3	100	V
5	* 7.386	36.27	PK2	35.3	-24.3	0	47.27	-	-	74	-26.73	9	143	V
	* 7.385	23.57	MAv1	35.3	-24.3	0	34.57	54	-19.43	-	-	9	143	V
6	2.581	35.73	PK	33	-23.6	0	45.13	-	-	-	-	0-360	100	V
3	9.848	24.9	PK	37	-22.3	0	39.6	-	-	-	-	0-360	201	H

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

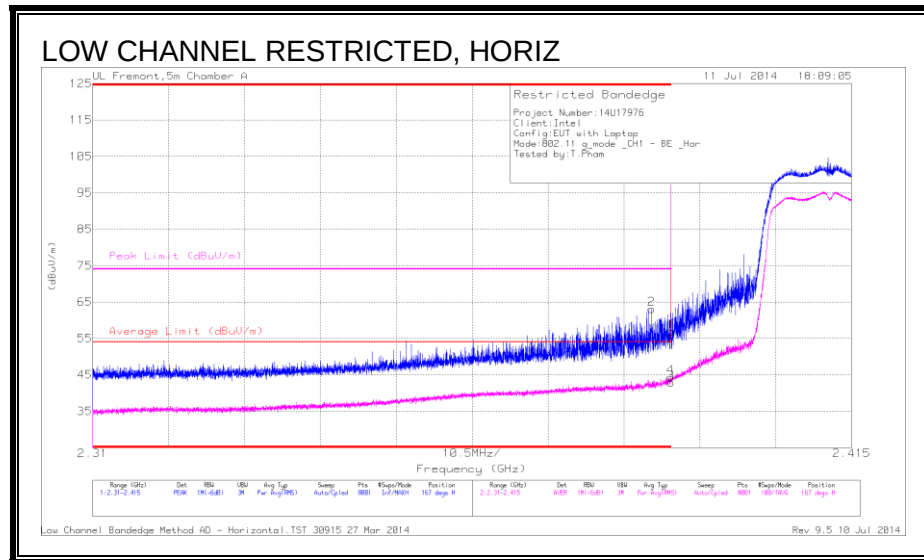
PK - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

9.3. TX ABOVE 1 GHz 802.11g MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

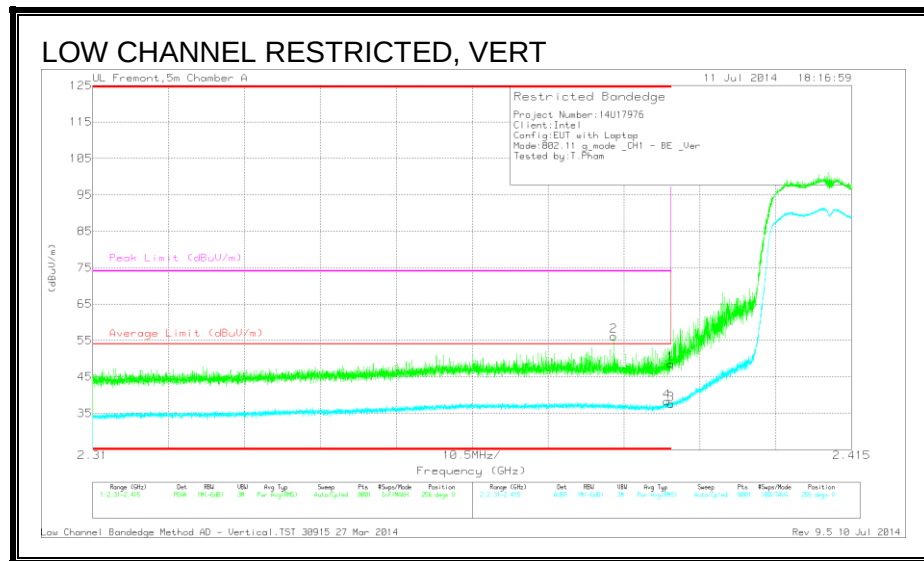


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/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	* 2.387	55.03	PK	32.2	-24.1	0	63.13	-	-	74	-10.87	167	222	H
1	* 2.39	49.11	PK	32.2	-24.4	0	56.91	-	-	74	-17.09	167	222	H
3	* 2.39	35.09	RMS	32.2	-24.4	0	42.89	54	-11.11	-	-	167	222	H
4	* 2.39	36.48	RMS	32.2	-24.4	0	44.28	54	-9.72	-	-	167	222	H

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

PK - Peak detector
RMS - RMS detection



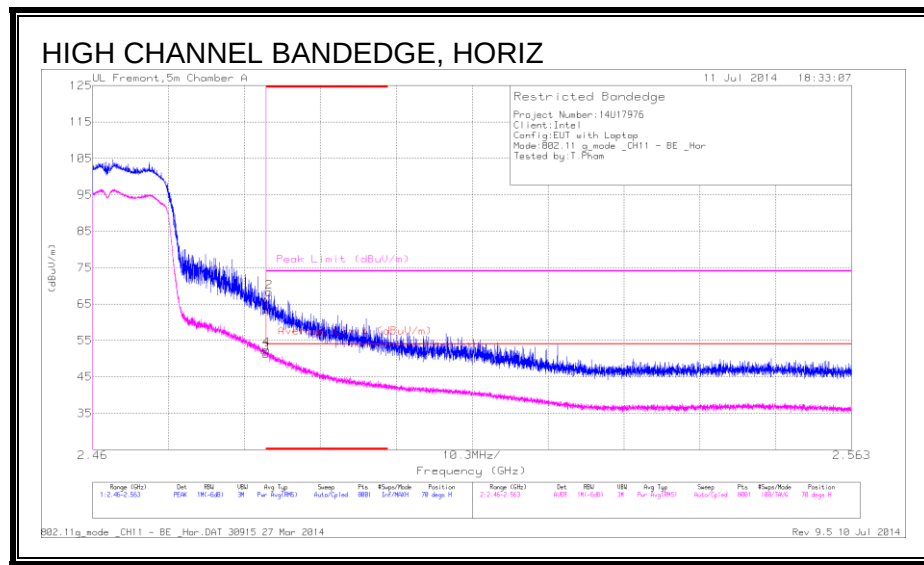
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.382	47.59	PK	32.2	-23.6	0	56.19	-	-	74	-17.81	256	324	V
4	* 2.389	30.4	RMS	32.2	-24.4	0	38.2	54	-15.8	-	-	256	324	V
1	* 2.39	40.75	PK	32.2	-24.4	0	48.55	-	-	74	-25.45	256	324	V
3	* 2.39	29.76	RMS	32.2	-24.4	0	37.56	54	-16.44	-	-	256	324	V

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

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

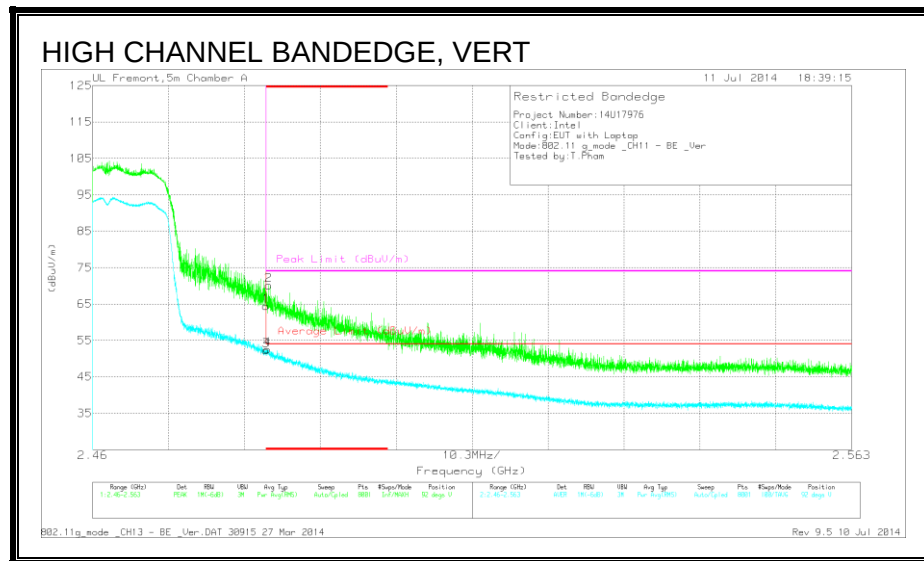


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	54.21	PK	32.7	-23.5	0	63.41	-	-	74	-10.59	70	337	H
2	* 2.484	59.13	PK	32.7	-23.5	0	68.33	-	-	74	-5.67	70	337	H
3	* 2.484	42.13	RMS	32.7	-23.5	0	51.33	54	-2.67	-	-	70	337	H
4	* 2.484	43.33	RMS	32.7	-23.5	0	52.53	54	-1.47	-	-	70	337	H

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

PK - Peak detector
RMS - RMS detection



Trace Markers

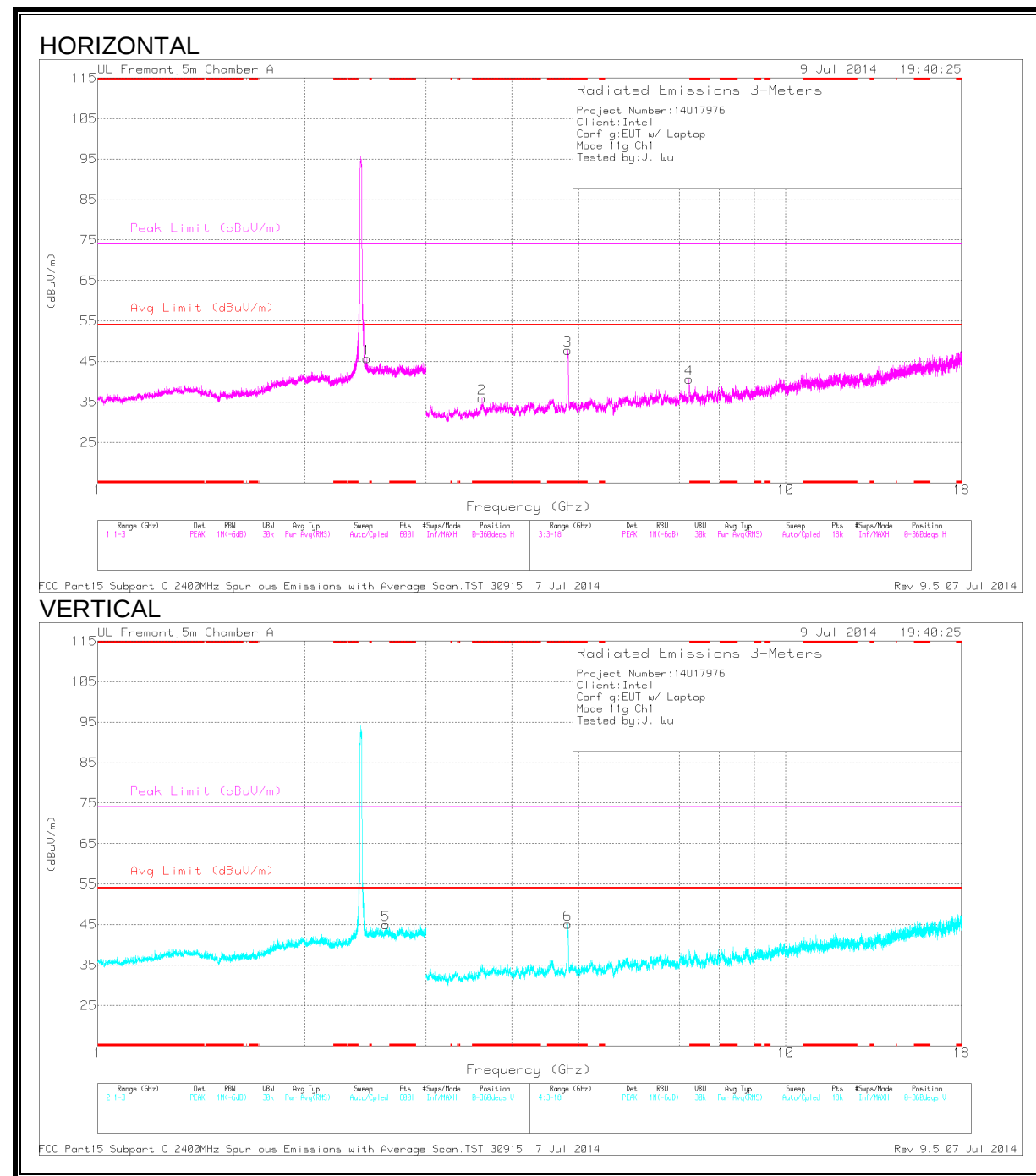
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	55.2	PK	32.7	-23.5	0	64.4	-	-	74	-9.6	92	277	V
2	* 2.484	60.91	PK	32.7	-23.5	0	70.11	-	-	74	-3.89	92	277	V
3	* 2.484	43.05	RMS	32.7	-23.5	0	52.25	54	-1.75	-	-	92	277	V
4	* 2.484	43.36	RMS	32.7	-23.5	0	52.56	54	-1.44	-	-	92	277	V

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

PK - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Fitr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 3.619	39.43	PK2	33.2	-30.6	0	42.03	-	-	74	-31.97	136	200	H
	* 3.618	29.95	MAv1	33.2	-30.6	0	32.55	54	-21.45	-	-	136	200	H
3	* 4.823	54.83	PK2	34	-29.5	0	59.33	-	-	74	-14.67	13	264	H
	* 4.824	42.8	MAv1	34	-29.5	0	47.3	54	-6.7	-	-	13	264	H
6	* 4.83	50.41	PK2	34	-29.1	0	55.31	-	-	74	-18.69	1	101	V
	* 4.824	38.02	MAv1	34	-29.5	0	42.52	54	-11.48	-	-	1	101	V
1	2.462	36.79	PK	32.6	-23.7	0	45.69	-	-	-	-	0-360	100	H
5	2.623	35.4	PK	32.9	-23.3	0	45	-	-	-	-	0-360	100	V
4	7.236	31.69	PK	35.2	-26.2	0	40.69	-	-	-	-	0-360	201	H

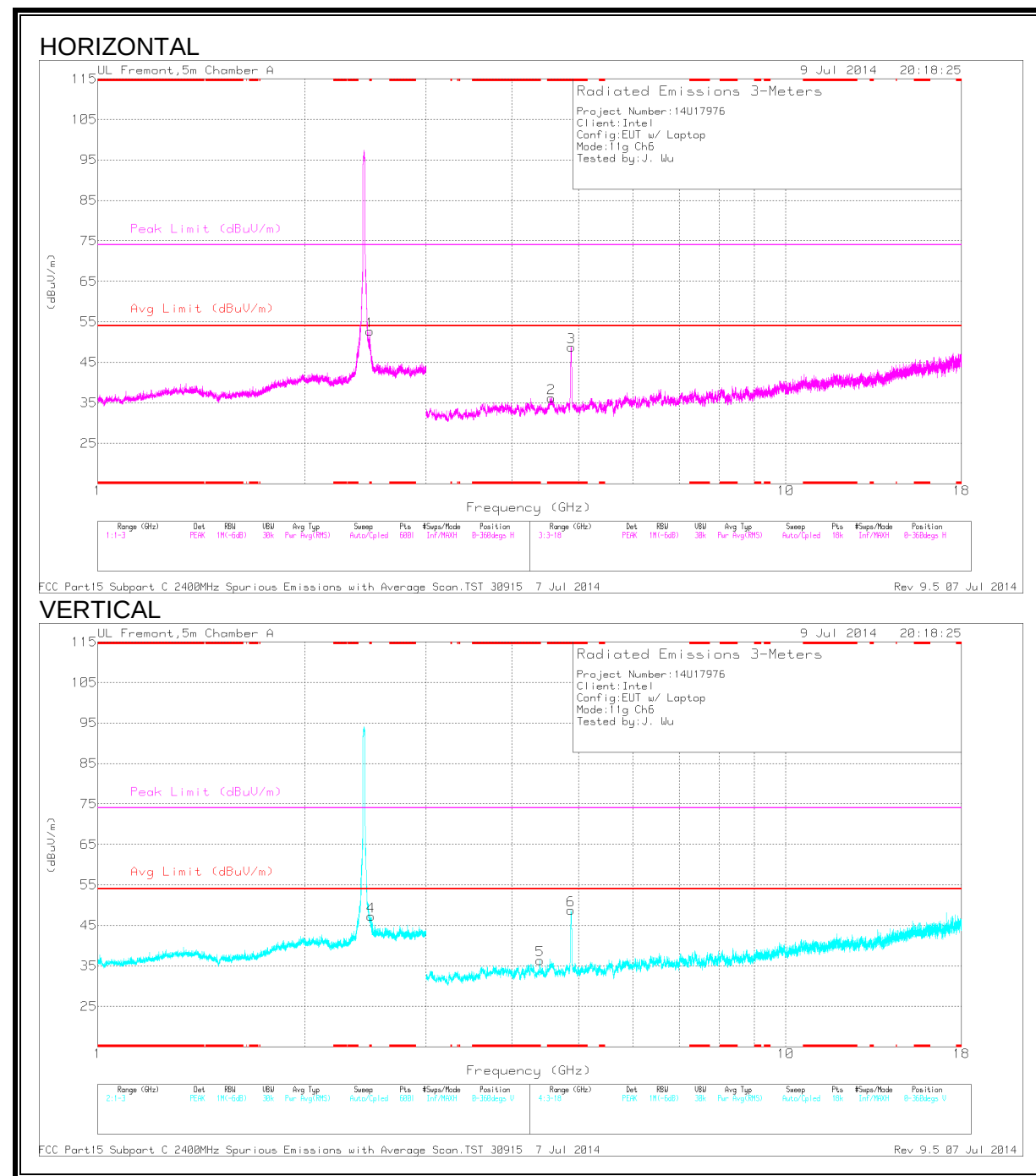
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Fitr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.487	58.26	PK2	32.8	-23.4	0	67.66	-	-	74	-6.34	69	259	H
	* 2.484	39.18	MAv1	32.7	-23.5	0	48.38	54	-5.62	-	-	69	259	H
4	* 2.486	55.75	PK2	32.8	-23.4	0	65.15	-	-	74	-8.85	114	400	V
	* 2.484	37.23	MAv1	32.7	-23.5	0	46.43	54	-7.57	-	-	114	400	V
2	* 4.567	38.42	PK2	33.9	-28.4	0	43.92	-	-	74	-30.08	317	159	H
	* 4.569	26.51	MAv1	33.9	-28.5	0	31.91	54	-22.09	-	-	317	159	H
3	* 4.873	55.78	PK2	34	-28.3	0	61.48	-	-	74	-12.52	7	285	H
	* 4.874	43.21	MAv1	34	-28.3	0	48.91	54	-5.09	-	-	7	285	H
5	* 4.39	38.86	PK2	33.9	-30.1	0	42.66	-	-	74	-31.34	174	114	V
	* 4.392	26.81	MAv1	33.9	-30.2	0	30.51	54	-23.49	-	-	174	114	V
6	* 4.877	51.43	PK2	34	-28.1	0	57.33	-	-	74	-16.67	2	102	V
	* 4.874	39.12	MAv1	34	-28.3	0	44.82	54	-9.18	-	-	2	102	V

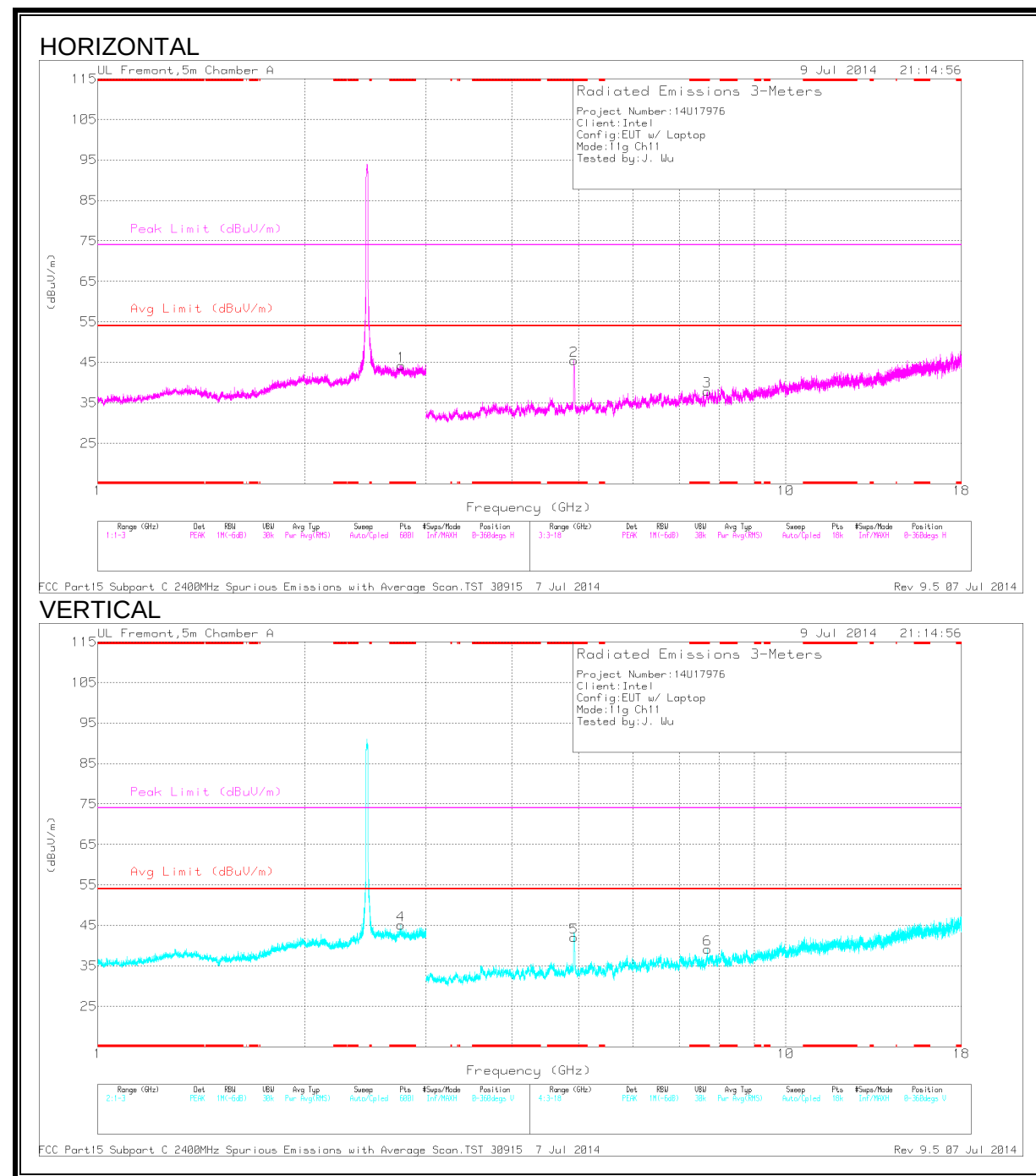
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Fitr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.759	41.28	PK2	32.7	-22.5	0	51.48	-	-	74	-22.52	265	400	H
	* 2.763	27.75	MAv1	32.7	-22.7	0	37.75	54	-16.25	-	-	265	400	H
4	* 2.761	41.2	PK2	32.7	-22.6	0	51.3	-	-	74	-22.7	176	354	V
	* 2.761	27.73	MAv1	32.7	-22.6	0	37.83	54	-16.17	-	-	176	354	V
2	* 4.924	52.51	PK2	33.9	-29	0	57.41	-	-	74	-16.59	7	259	H
	* 4.924	41.1	MAv1	33.9	-29	0	46	54	-8	-	-	7	259	H
3	* 7.681	35.49	PK2	35.4	-25.5	0	45.39	-	-	74	-28.61	98	154	H
	* 7.682	23.09	MAv1	35.4	-25.5	0	32.99	54	-21.01	-	-	98	154	H
5	* 4.93	48.07	PK2	33.9	-28.9	0	53.07	-	-	74	-20.93	3	100	V
	* 4.924	36.6	MAv1	33.9	-29	0	41.5	54	-12.5	-	-	3	100	V
6	* 7.688	35.65	PK2	35.4	-24.9	0	46.15	-	-	74	-27.85	62	260	V
	* 7.689	22.98	MAv1	35.4	-24.9	0	33.48	54	-20.52	-	-	62	260	V

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

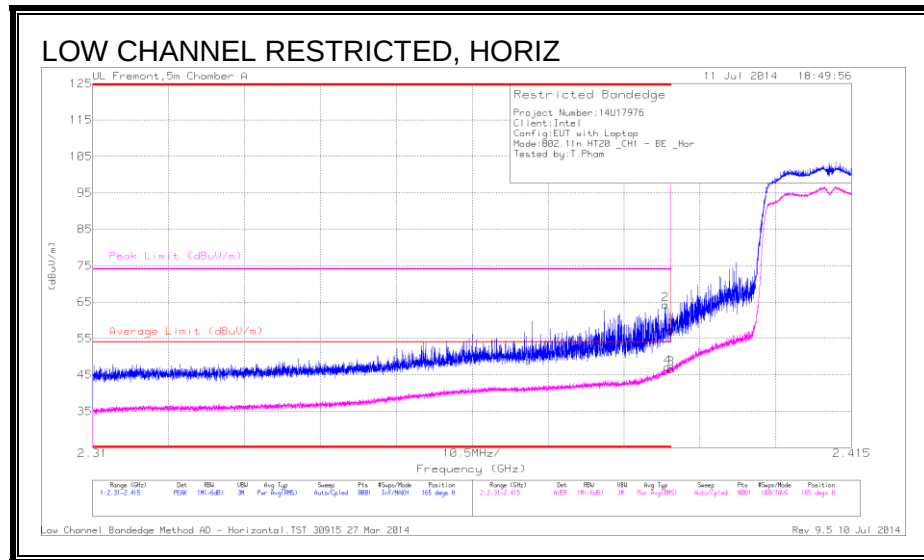
PK - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

9.4. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

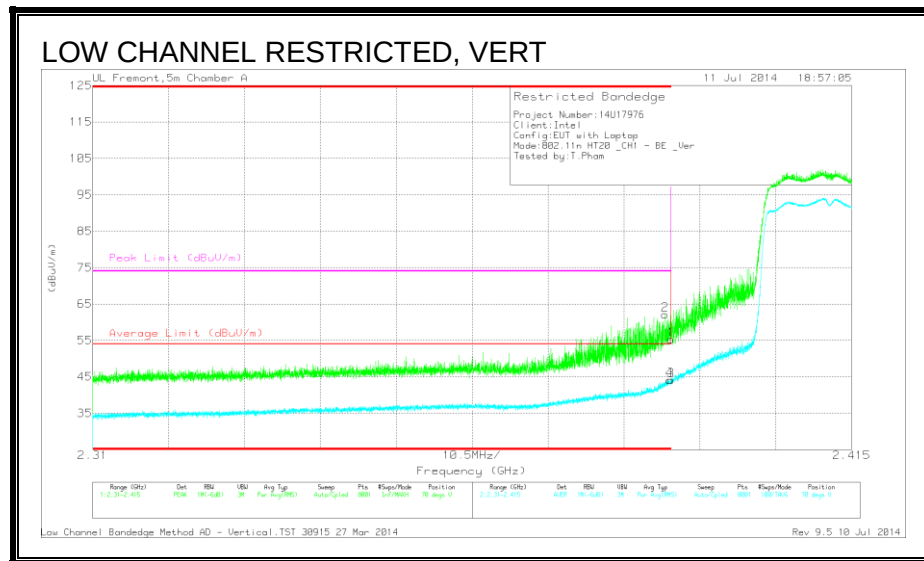


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	* 2.389	56.36	PK	32.2	-24.3	0	64.26	-	-	74	-9.74	165	225	H
1	* 2.39	49.47	PK	32.2	-24.4	0	57.27	-	-	74	-16.73	165	225	H
3	* 2.39	38.83	RMS	32.2	-24.4	0	46.63	54	-7.37	-	-	165	225	H
4	* 2.39	39.23	RMS	32.2	-24.4	0	47.03	54	-6.97	-	-	165	225	H

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

PK - Peak detector
RMS - RMS detection



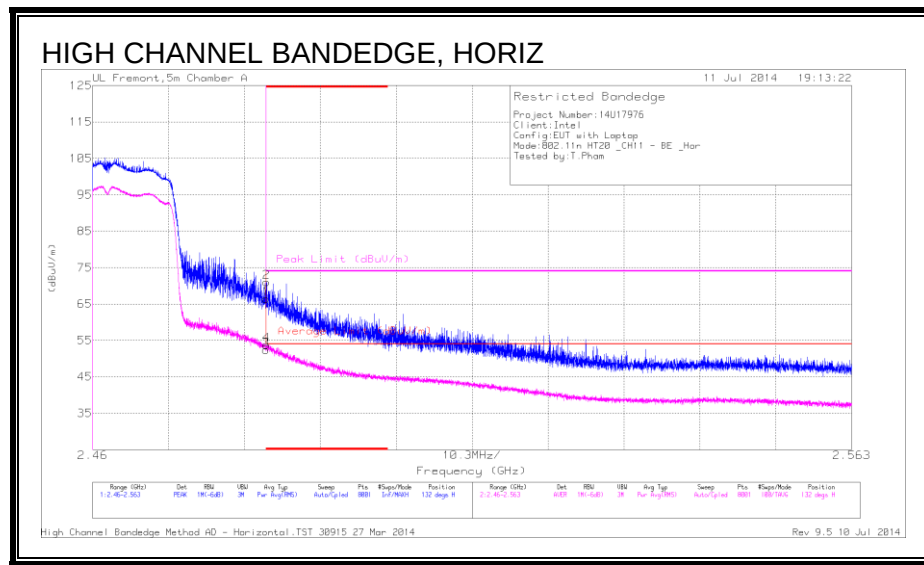
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	* 2.389	54.2	PK	32.2	-24.3	0	62.1	-	-	74	-11.9	70	367	V
1	* 2.39	47.5	PK	32.2	-24.4	0	55.3	-	-	74	-18.7	70	367	V
3	* 2.39	36.24	RMS	32.2	-24.4	0	44.04	54	-9.96	-	-	70	367	V
4	* 2.39	36.3	RMS	32.2	-24.4	0	44.1	54	-9.9	-	-	70	367	V

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

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

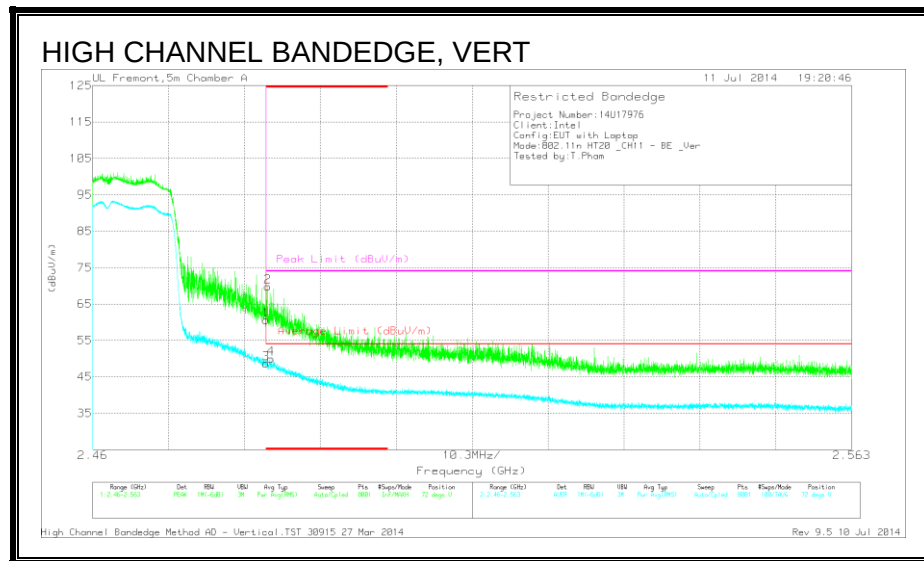


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	57.22	PK	32.7	-23.5	0	66.42	-	-	74	-7.58	132	227	H
2	* 2.484	61.79	PK	32.7	-23.5	0	70.99	-	-	74	-3.01	132	227	H
3	* 2.484	43.18	RMS	32.7	-23.5	0	52.38	54	-1.62	-	-	132	227	H
4	* 2.484	44.59	RMS	32.7	-23.5	0	53.79	54	-21	-	-	132	227	H

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

PK - Peak detector
RMS - RMS detection



Trace Markers

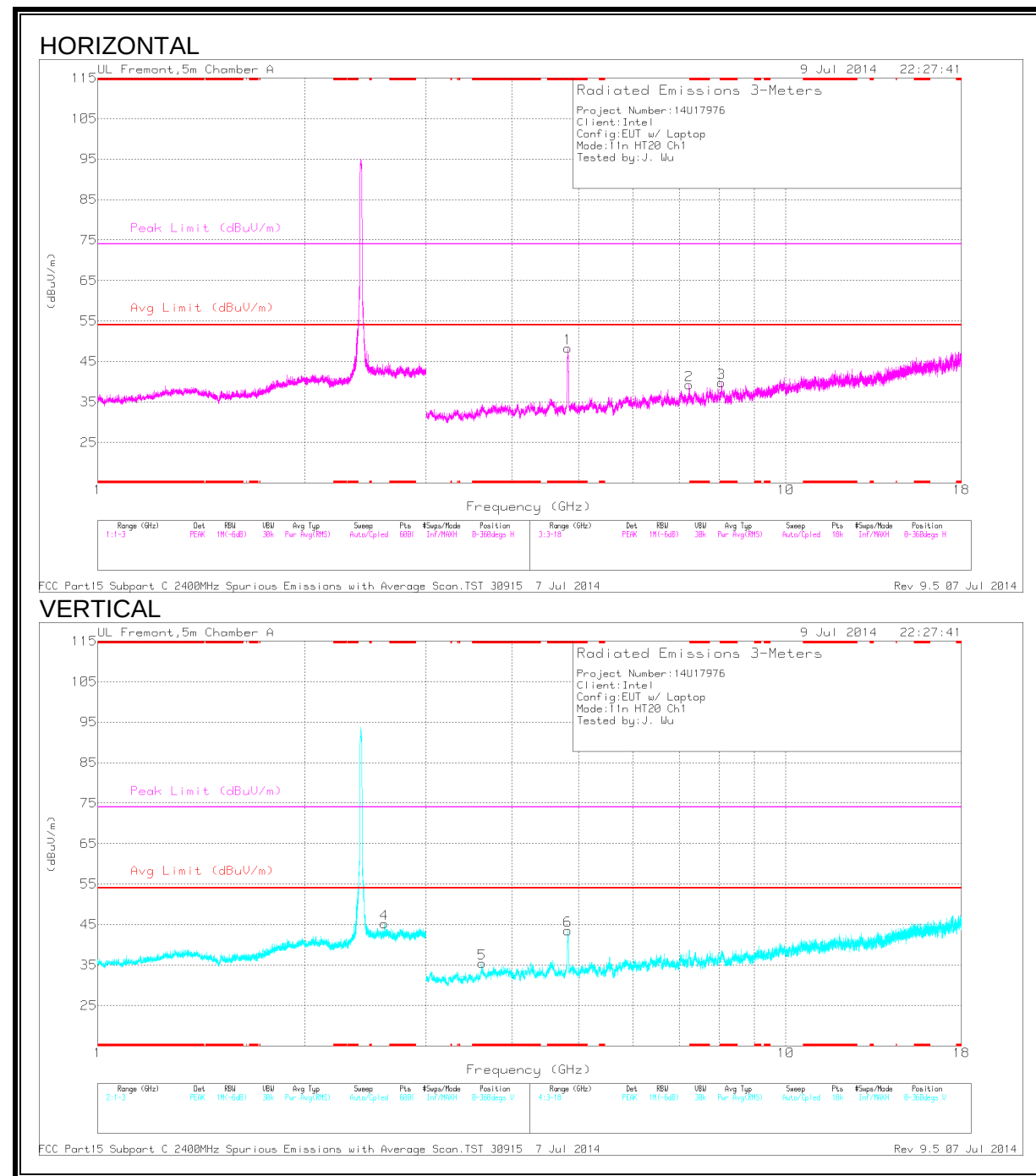
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	51.42	PK	32.7	-23.5	0	60.62	-	-	74	-13.38	72	340	V
2	* 2.484	60.53	PK	32.7	-23.5	0	69.73	-	-	74	-4.27	72	340	V
3	* 2.484	39.48	RMS	32.7	-23.5	0	48.68	54	-5.32	-	-	72	340	V
4	* 2.484	40.78	RMS	32.7	-23.5	0	49.98	54	-4.02	-	-	72	340	V

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

PK - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Fitr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.825	53.7	PK2	34	-29.4	0	58.3	-	-	74	-15.7	4	264	H
	* 4.824	42.04	MAv1	34	-29.5	0	46.54	54	-7.46	-	-	4	264	H
3	* 8.066	35.19	PK2	35.5	-24.2	0	46.49	-	-	74	-27.51	48	291	H
	* 8.07	22.27	MAv1	35.5	-23.9	0	33.87	54	-20.13	-	-	48	291	H
5	* 3.618	40.08	PK2	33.2	-30.6	0	42.68	-	-	74	-31.32	258	297	V
	* 3.618	28.98	MAv1	33.2	-30.6	0	31.58	54	-22.42	-	-	258	297	V
6	* 4.826	49.51	PK2	34	-29.4	0	54.11	-	-	74	-19.89	5	345	V
	* 4.824	36.76	MAv1	34	-29.4	0	41.36	54	-12.64	-	-	5	345	V
4	2.609	35.92	PK	33	-23.7	0	45.22	-	-	-	-	0-360	100	V
2	7.24	30.15	PK	35.2	-26.1	0	39.25	-	-	-	-	0-360	201	H

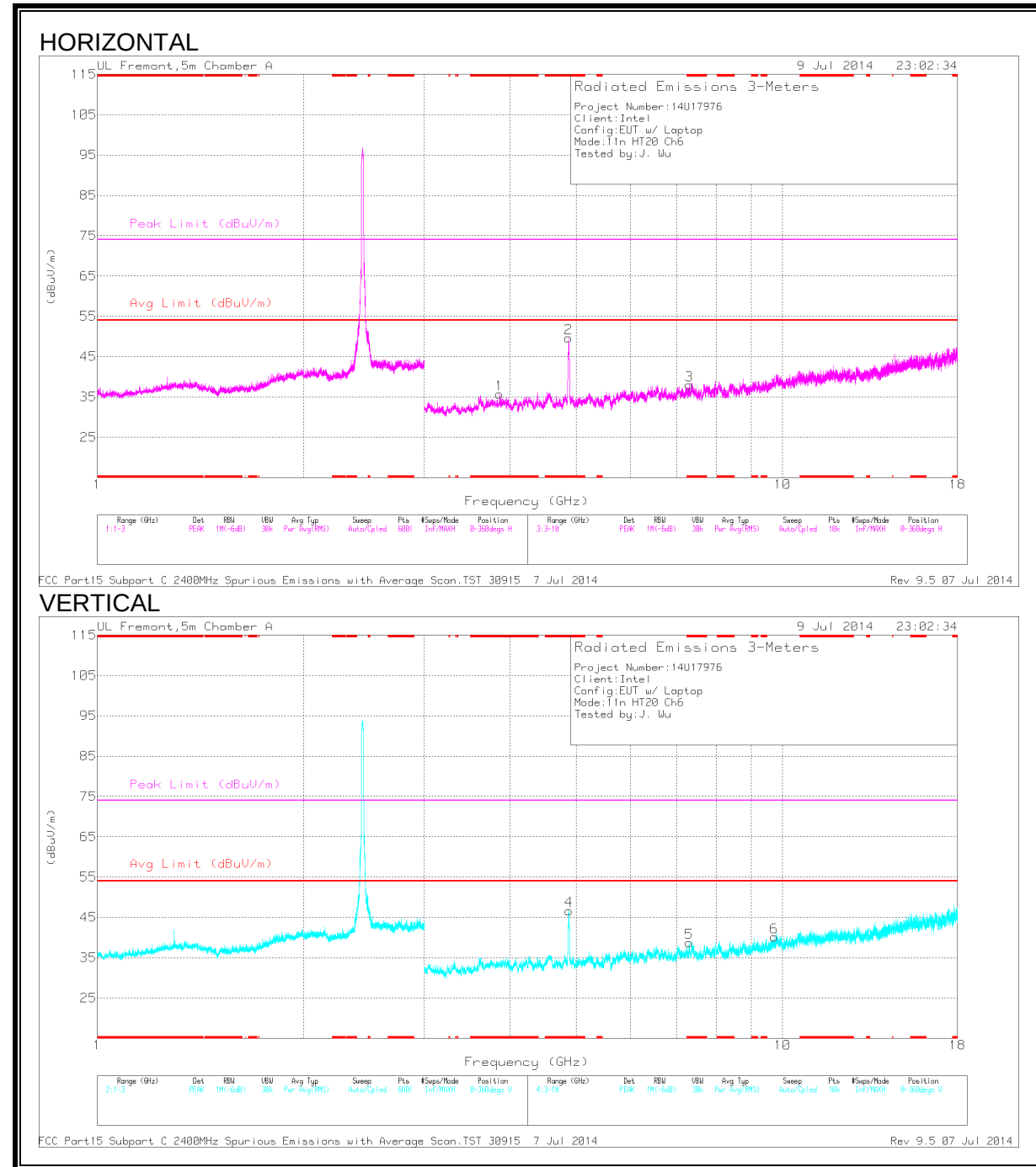
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Fitr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.858	39.79	PK2	33.7	-31.1	0	42.39	-	-	74	-31.61	353	314	H
	* 3.86	27.33	MAv1	33.7	-31	0	30.03	54	-23.97	-	-	353	314	H
2	* 4.878	55.1	PK2	34	-28.1	0	61	-	-	74	-13	2	260	H
	* 4.874	42.4	MAv1	34	-28.3	0	48.1	54	-5.9	-	-	2	260	H
3	* 7.312	39.28	PK2	35.2	-27.1	0	47.38	-	-	74	-26.62	326	238	H
	* 7.311	25.94	MAv1	35.2	-27.2	0	33.94	54	-20.06	-	-	326	238	H
4	* 4.877	49.65	PK2	34	-28.1	0	55.55	-	-	74	-18.45	7	340	V
	* 4.874	37.7	MAv1	34	-28.3	0	43.4	54	-10.6	-	-	7	340	V
5	* 7.304	40.37	PK2	35.2	-27.1	0	48.47	-	-	74	-25.53	8	178	V
	* 7.311	27.81	MAv1	35.2	-27.2	0	35.81	54	-18.19	-	-	8	178	V
6	9.72	27.47	PK	36.8	-24.1	0	40.17	-	-	-	-	0-360	201	V

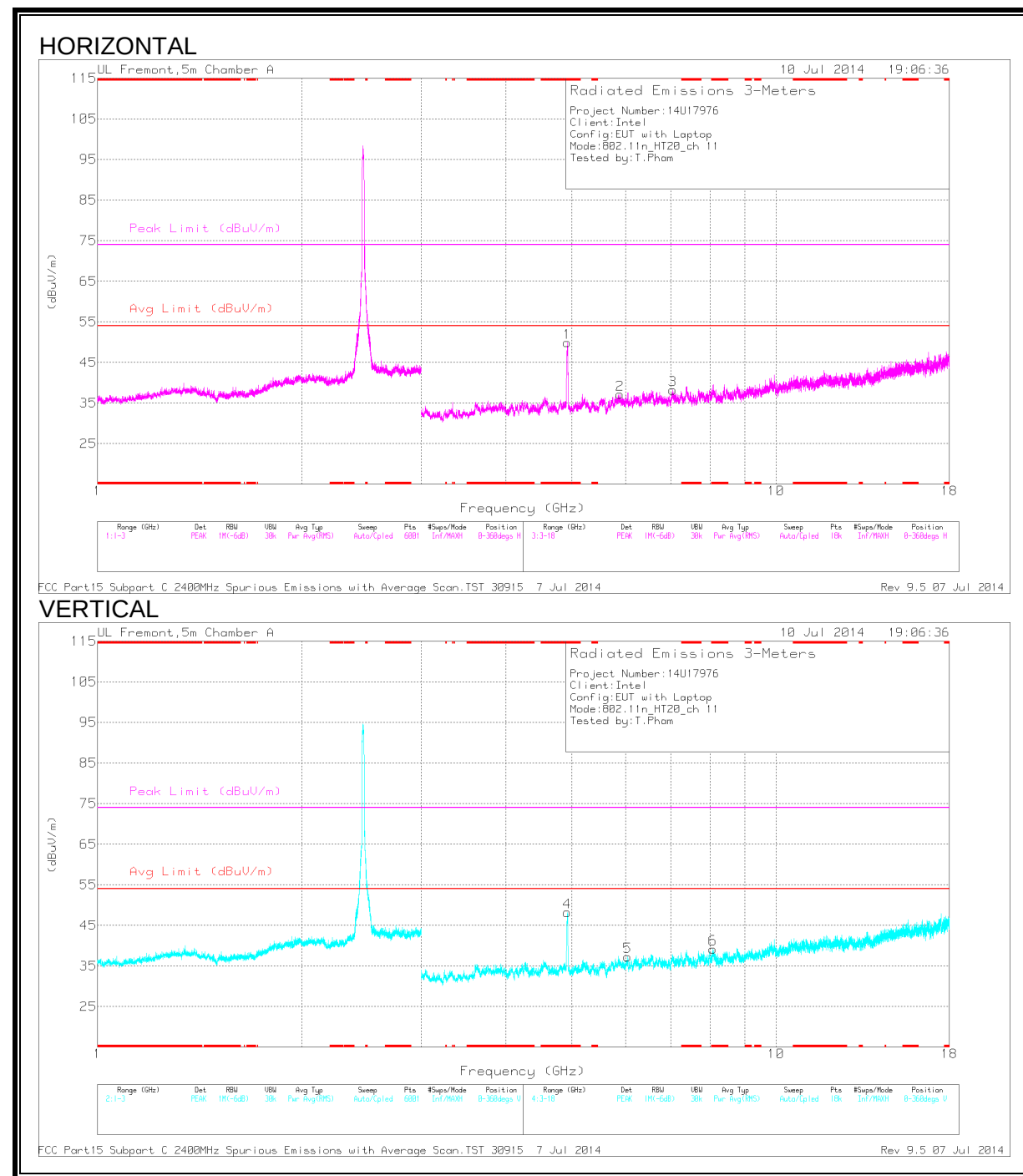
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Fitr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.923	55.4	PK2	33.9	-29	0	60.3	-	-	74	-13.7	4	186	H
	* 4.924	43.55	MAv1	33.9	-29	0	48.45	54	-5.55	-	-	4	186	H
4	* 4.925	52.01	PK2	33.9	-29	0	56.91	-	-	74	-17.09	360	330	V
	* 4.924	40.15	MAv1	33.9	-29	0	45.05	54	-8.95	-	-	360	330	V
6	* 8.066	35.45	PK2	35.5	-24.2	0	46.75	-	-	74	-27.25	360	200	V
	* 8.064	23.46	MAv1	35.5	-24.4	0	34.56	54	-19.44	-	-	360	200	V
2	5.89	30.13	PK	35	-28	0	37.13	-	-	-	-	0-360	100	H
5	6.045	30.11	PK	35.3	-28.1	0	37.31	-	-	-	-	0-360	201	V
3	7.041	29.04	PK	35.3	-26.1	0	38.24	-	-	-	-	0-360	100	H

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

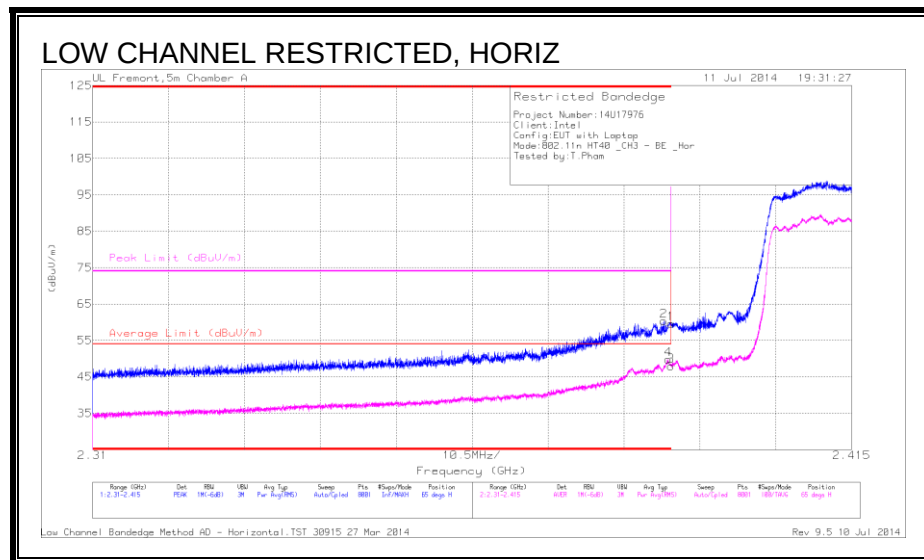
PK - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

9.5. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

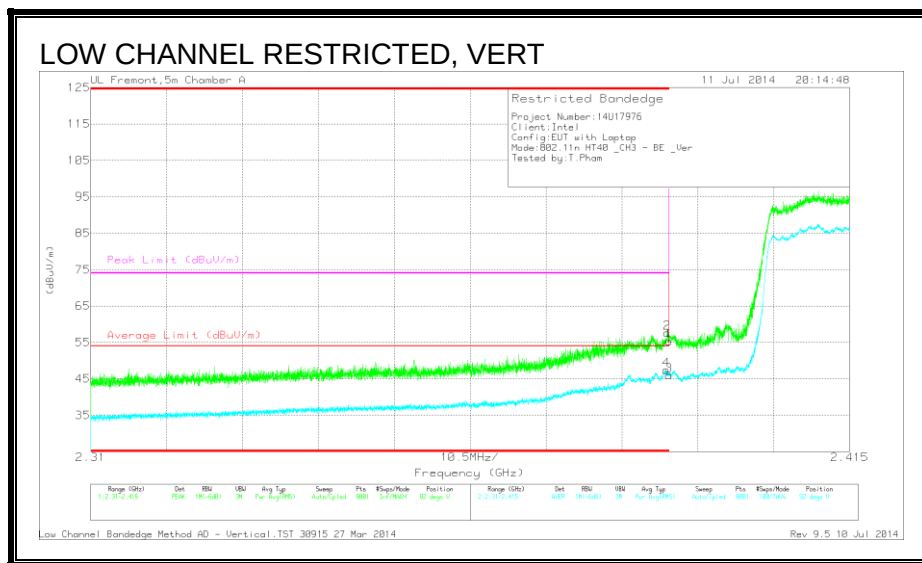


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	* 2.389	52.4	PK	32.2	-24.3	0	60.3	-	-	74	-13.7	65	282	H
1	* 2.39	51.79	PK	32.2	-24.4	0	59.59	-	-	74	-14.41	65	282	H
3	* 2.39	40.05	RMS	32.2	-24.4	.14	47.99	54	-6.01	-	-	65	282	H
4	* 2.39	41.91	RMS	32.2	-24.4	.14	49.85	54	-4.15	-	-	65	282	H

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

PK - Peak detector
RMS - RMS detection



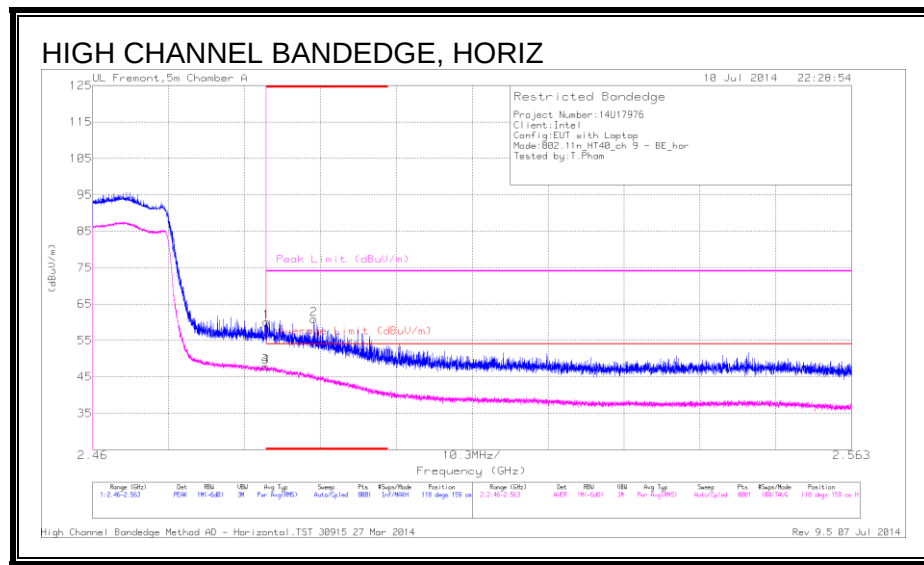
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	47.44	PK	32.2	-24.4	0	55.24	-	-	74	-18.76	92	281	V
2	* 2.39	49.87	PK	32.2	-24.4	0	57.67	-	-	74	-16.33	92	281	V
3	* 2.39	38.03	RMS	32.2	-24.4	.14	45.97	54	-8.03	-	-	92	281	V
4	* 2.39	39.45	RMS	32.2	-24.4	.14	47.39	54	-6.61	-	-	92	281	V

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

PK - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

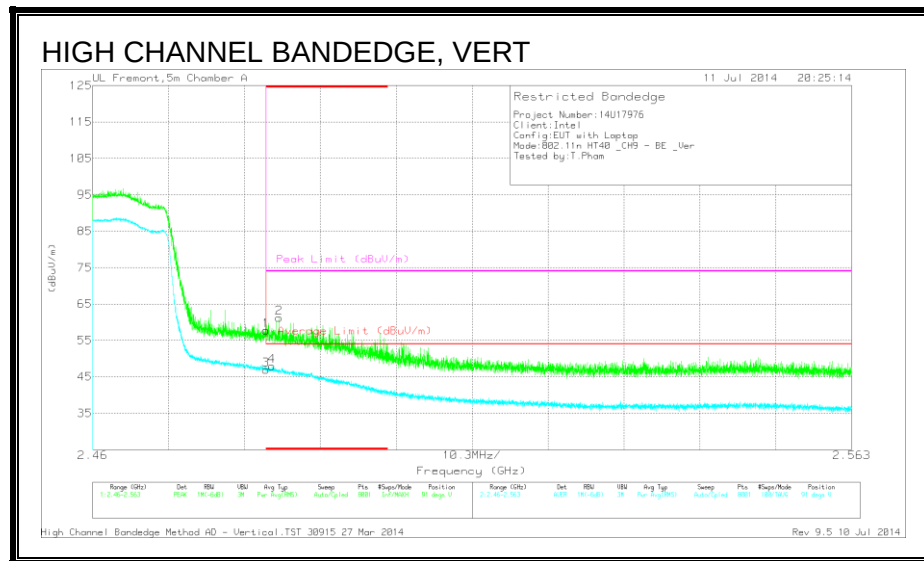


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	50.88	PK	32.7	-23.5	0	60.08	-	-	74	-13.92	118	159	H
2	* 2.49	51.4	PK	32.8	-23.4	0	60.8	-	-	74	-13.2	118	159	H
3	2.483	38.66	RMS	32.7	-23.5	.14	48	54	-6	-	-	118	159	H
4	2.483	38.66	RMS	32.7	-23.5	.14	48	54	-6	-	-	118	159	H

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

PK - Peak detector
RMS - RMS detection



Trace Markers

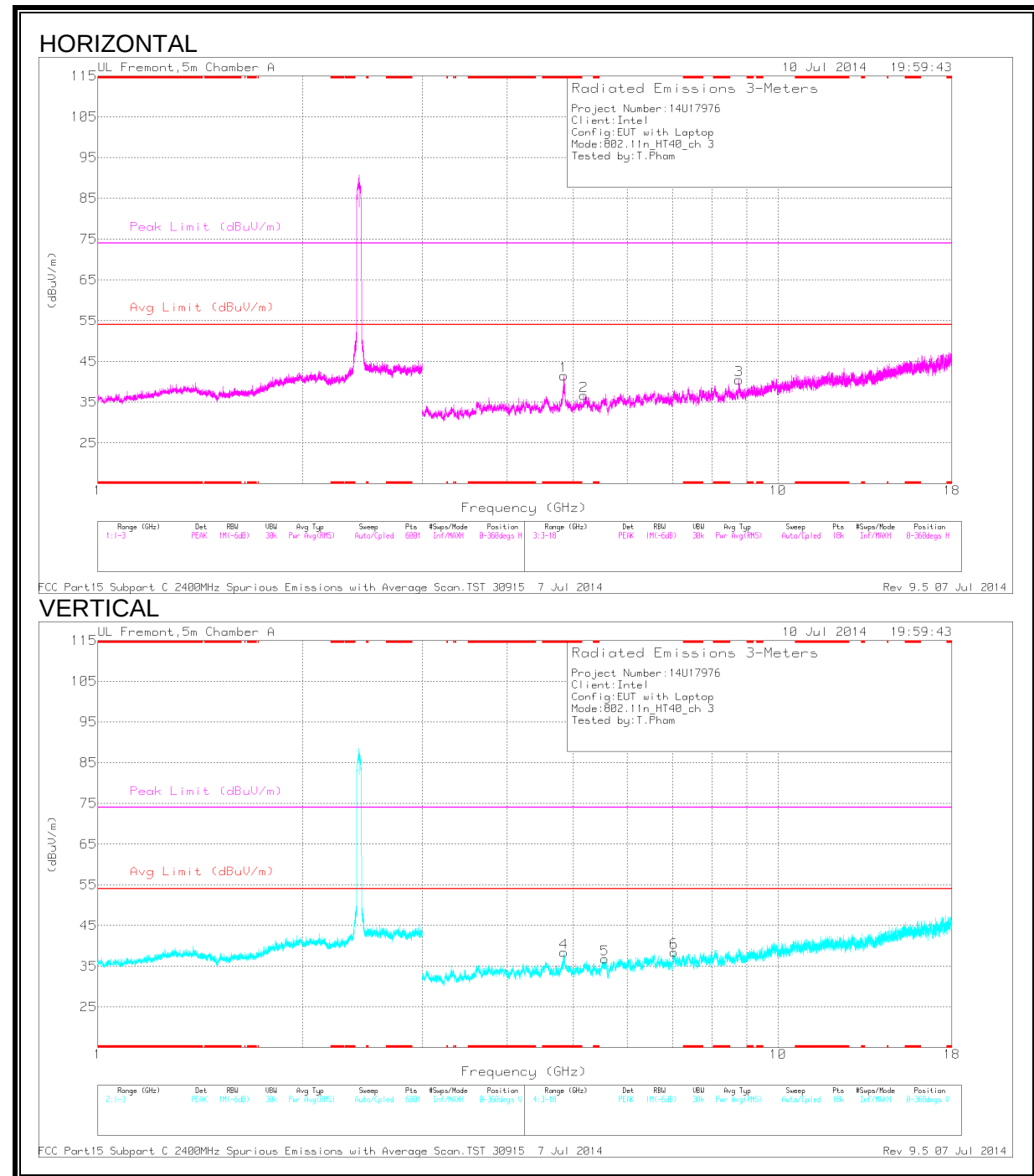
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	48.55	PK	32.7	-23.5	0	57.75	-	-	74	-16.25	91	283	V
2	* 2.485	52.05	PK	32.7	-23.5	0	61.25	-	-	74	-12.75	91	283	V
3	* 2.484	37.64	RMS	32.7	-23.5	.14	46.98	54	-7.02	-	-	91	283	V
4	* 2.484	38.63	RMS	32.7	-23.5	.14	47.97	54	-6.03	-	-	91	283	V

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

PK - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Fitr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.844	46.97	PK2	34	-28.9	0	52.07	-	-	74	-21.93	3	191	H
	* 4.844	36.05	MAv1	34	-28.9	.14	41.29	54	-12.71	-	-	3	191	H
4	* 4.845	43.26	PK2	34	-28.9	0	48.36	-	-	74	-25.64	0	309	V
	* 4.844	32.26	MAv1	34	-28.9	.14	37.5	54	-16.5	-	-	0	309	V
2	5.18	31.54	PK	34.1	-29	0	36.64	-	-	-	-	0-360	100	H
5	5.564	30.67	PK	34.4	-28.3	0	36.77	-	-	-	-	0-360	100	V
6	7.031	29.14	PK	35.3	-26	0	38.44	-	-	-	-	0-360	100	V
3	8.756	28.48	PK	35.8	-23.8	0	40.48	-	-	-	-	0-360	201	H

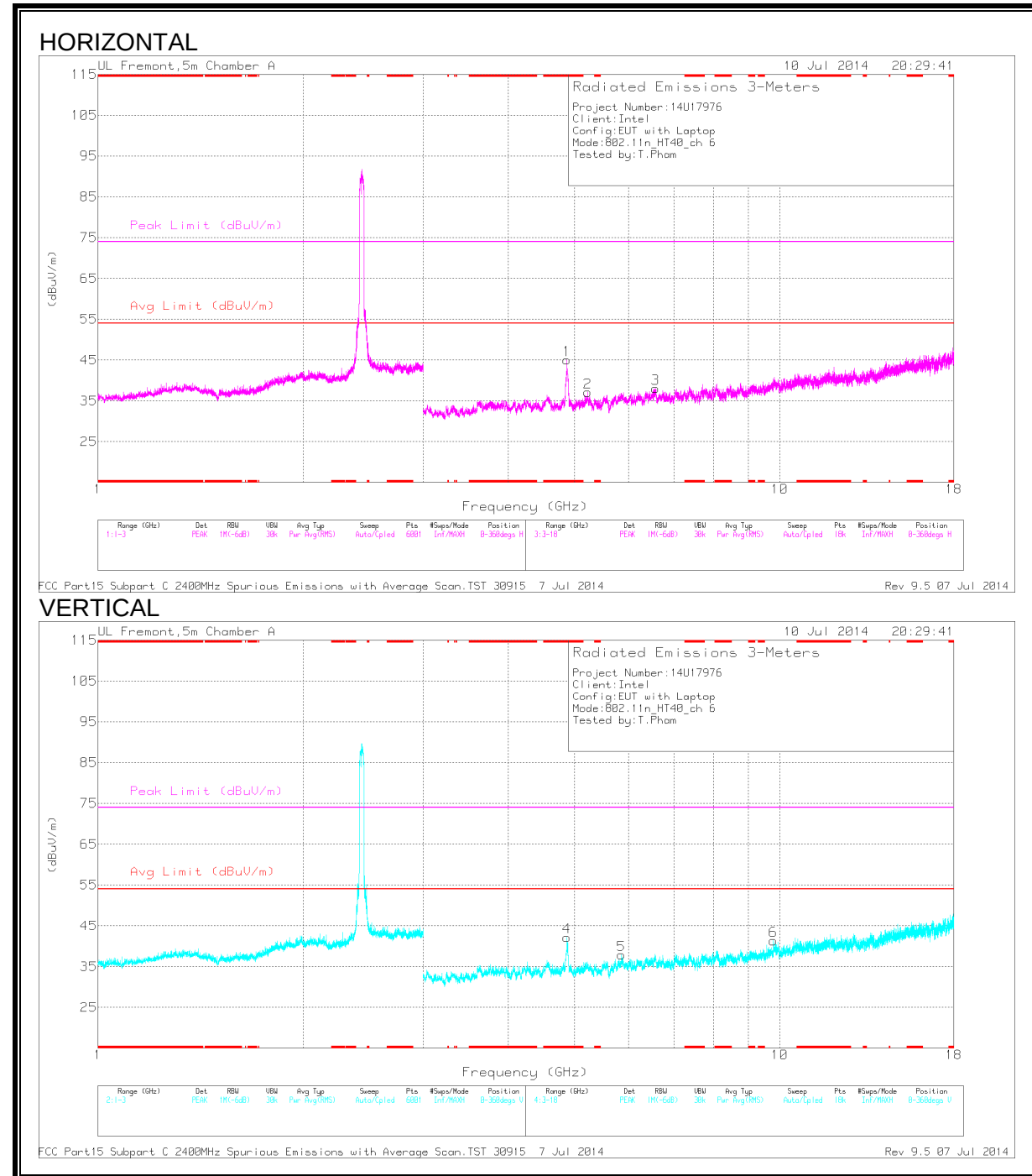
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Fitr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.875	49.11	PK2	34	-28.2	0	54.91	-	-	74	-19.09	4	288	H
	* 4.874	38.39	MAv1	34	-28.3	.14	44.23	54	-9.77	-	-	4	288	H
4	* 4.874	45.04	PK2	34	-28.3	0	50.74	-	-	74	-23.26	358	278	V
	* 4.874	34.11	MAv1	34	-28.3	.14	39.95	54	-14.05	-	-	358	278	V
2	5.227	30.62	PK	34.2	-27.7	0	37.12	-	-	-	-	0-360	201	H
5	5.857	30.3	PK	34.9	-27.3	0	37.9	-	-	-	-	0-360	100	V
3	6.579	29.17	PK	35.5	-26.6	0	38.07	-	-	-	-	0-360	201	H
6	9.785	27.16	PK	36.9	-22.7	0	41.36	-	-	-	-	0-360	100	V

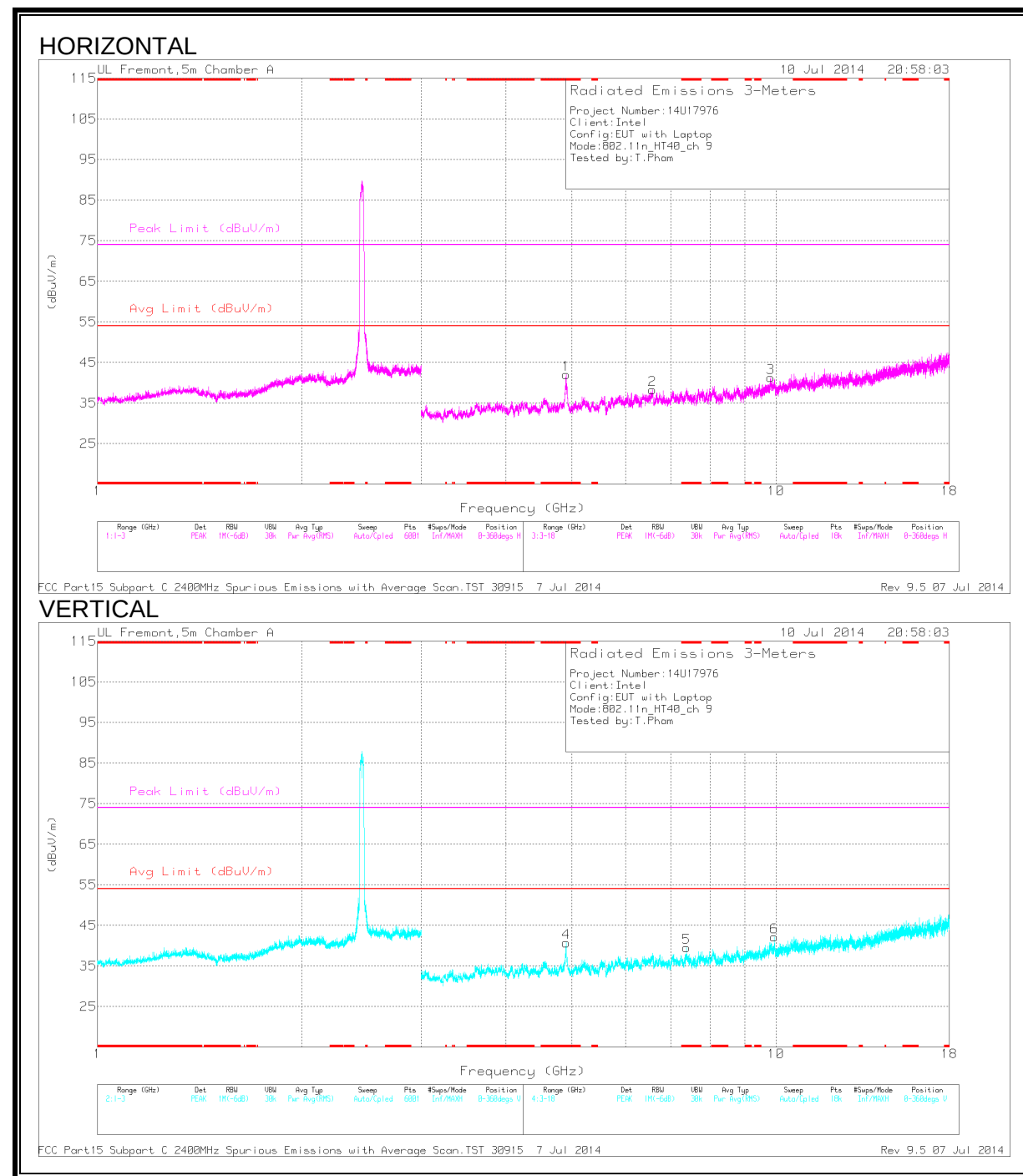
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Fitr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.904	49.3	PK2	34	-29	0	54.3	-	-	74	-19.7	7	187	H
	* 4.904	37.56	MAv1	34	-29	.14	42.7	54	-11.3	-	-	7	187	H
4	* 4.904	45.2	PK2	34	-29	0	50.2	-	-	74	-23.8	0	337	V
	* 4.904	33.74	MAv1	34	-29	.14	38.88	54	-15.12	-	-	0	337	V
5	* 7.38	35.52	PK2	35.3	-24.4	0	46.42	-	-	74	-27.58	0	200	V
	* 7.38	23.32	MAv1	35.3	-24.4	.14	34.36	54	-19.64	-	-	0	200	V
2	6.576	29.39	PK	35.5	-26.6	0	38.29	-	-	-	-	0-360	100	H
3	9.819	26.69	PK	36.9	-22.3	0	41.29	-	-	-	-	0-360	100	H
6	9.938	27.56	PK	37.1	-22.5	0	42.16	-	-	-	-	0-360	100	V

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

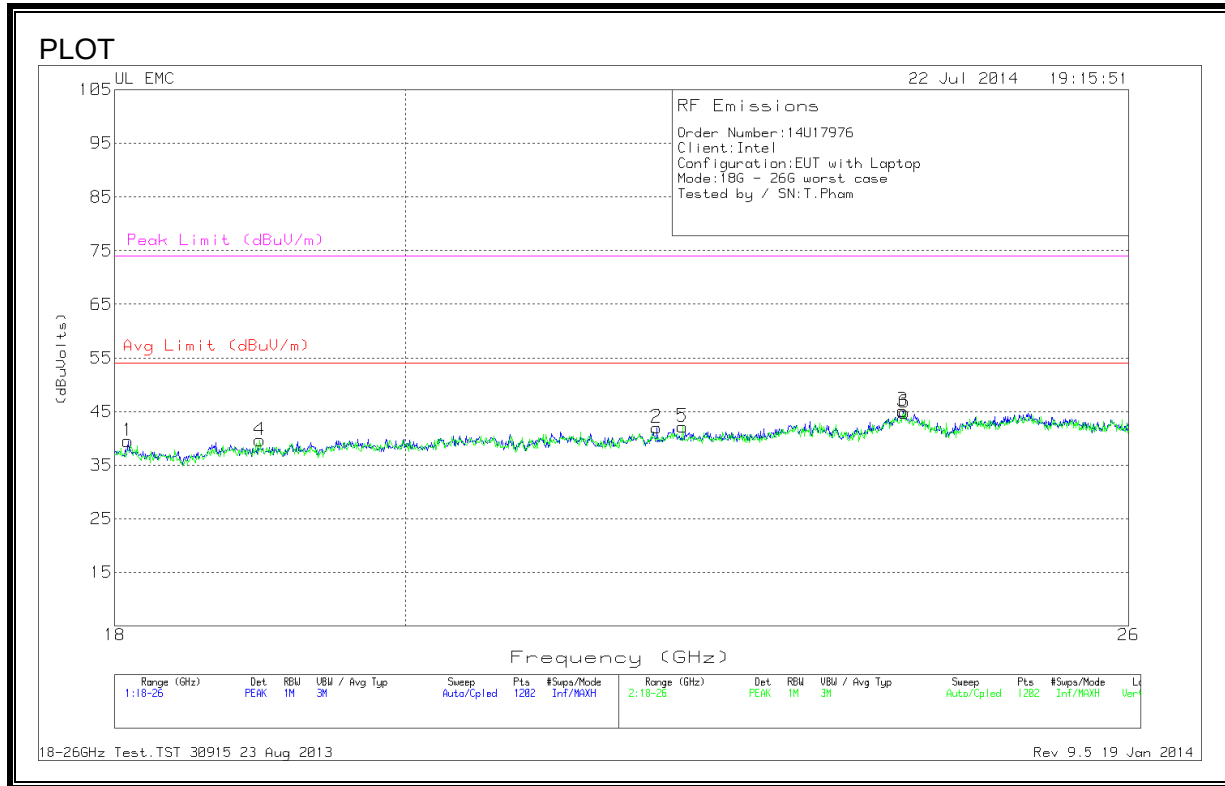
PK - Peak detector

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

9.6. WORST-CASE 18-26 GHz

HARMONICS AND SPURIOUS EMISSIONS



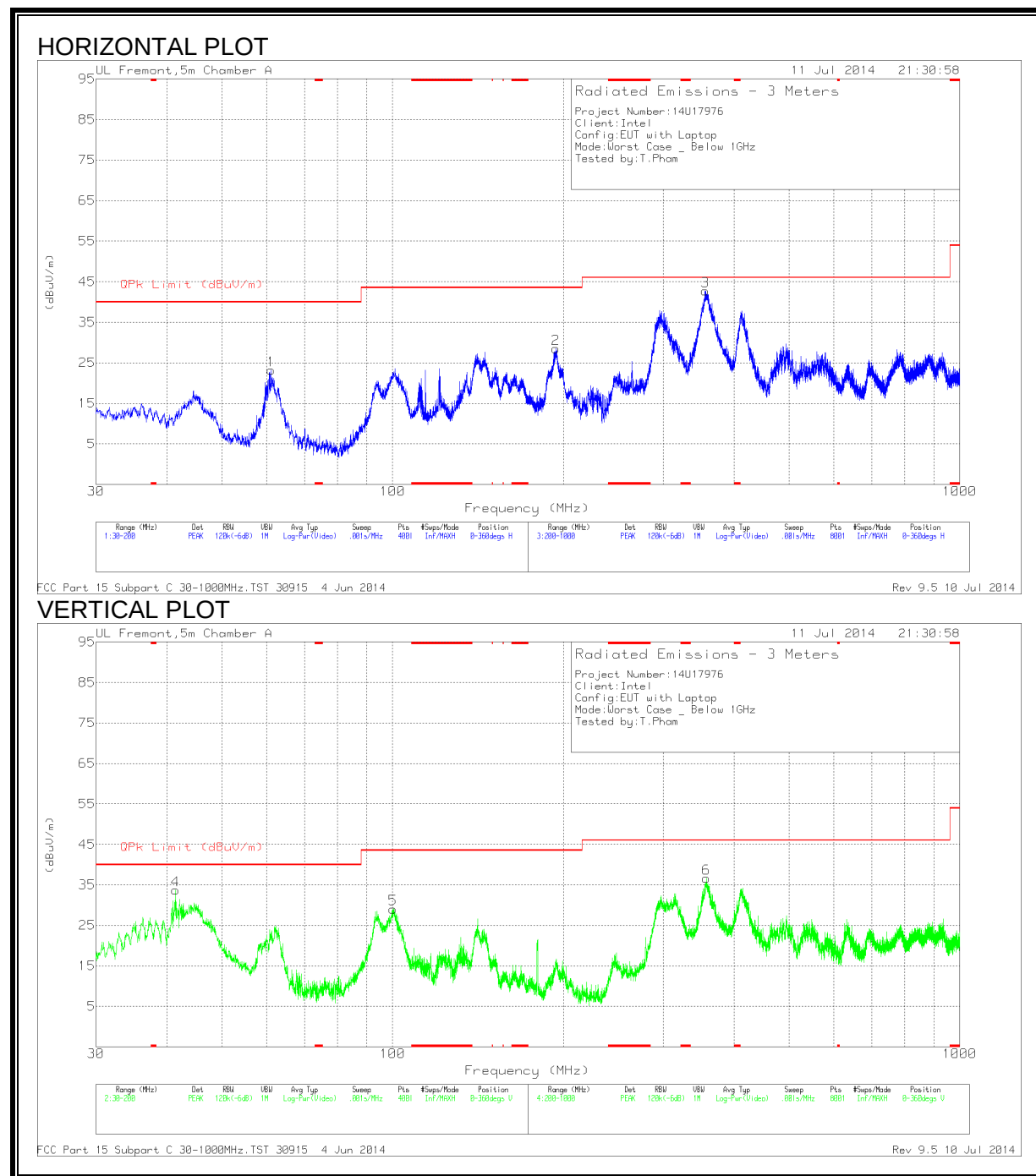
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T89 (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	18.087	41.5	PK	32.4	-24.9	-9.5	39.5	54	-14.5	74	-34.5
2	21.91	42.2	PK	33.3	-24	-9.5	42	54	-12	74	-32
3	23.955	43.77	PK	33.6	-22.7	-9.5	45.17	54	-8.83	74	-28.83
4	18.973	41.17	PK	32.5	-24.5	-9.5	39.67	54	-14.33	74	-34.33
5	22.117	41.97	PK	33.3	-23.6	-9.5	42.17	54	-11.83	74	-31.83
6	23.968	43.33	PK	33.6	-22.6	-9.5	44.83	54	-9.17	74	-29.17

PK - Peak detector

9.7. WORST-CASE BELOW 1 GHz

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



Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T130 (dB/m)	Amp/Cbl (dB/m)	DC Corr (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	41.4325	51.47	PK	13.2	-30.9	0	33.77	40	-6.23	0-360	101	V
1	61.0675	45.97	PK	7.8	-30.6	0	23.17	40	-16.83	0-360	400	H
5	100.0825	49.29	PK	10.2	-30.4	0	29.09	43.52	-14.43	0-360	101	V
2	194.0075	46.77	PK	11.8	-30	0	28.57	43.52	-14.95	0-360	101	H
3	355.833	53.13	QP	14.5	-28.9	0	38.73	46.02	-7.29	338	104	H
6	357.8	50.99	PK	14.6	-28.9	0	36.69	46.02	-9.33	0-360	300	V

PK - Peak detector
QP - Quasi-Peak detector

10. 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.

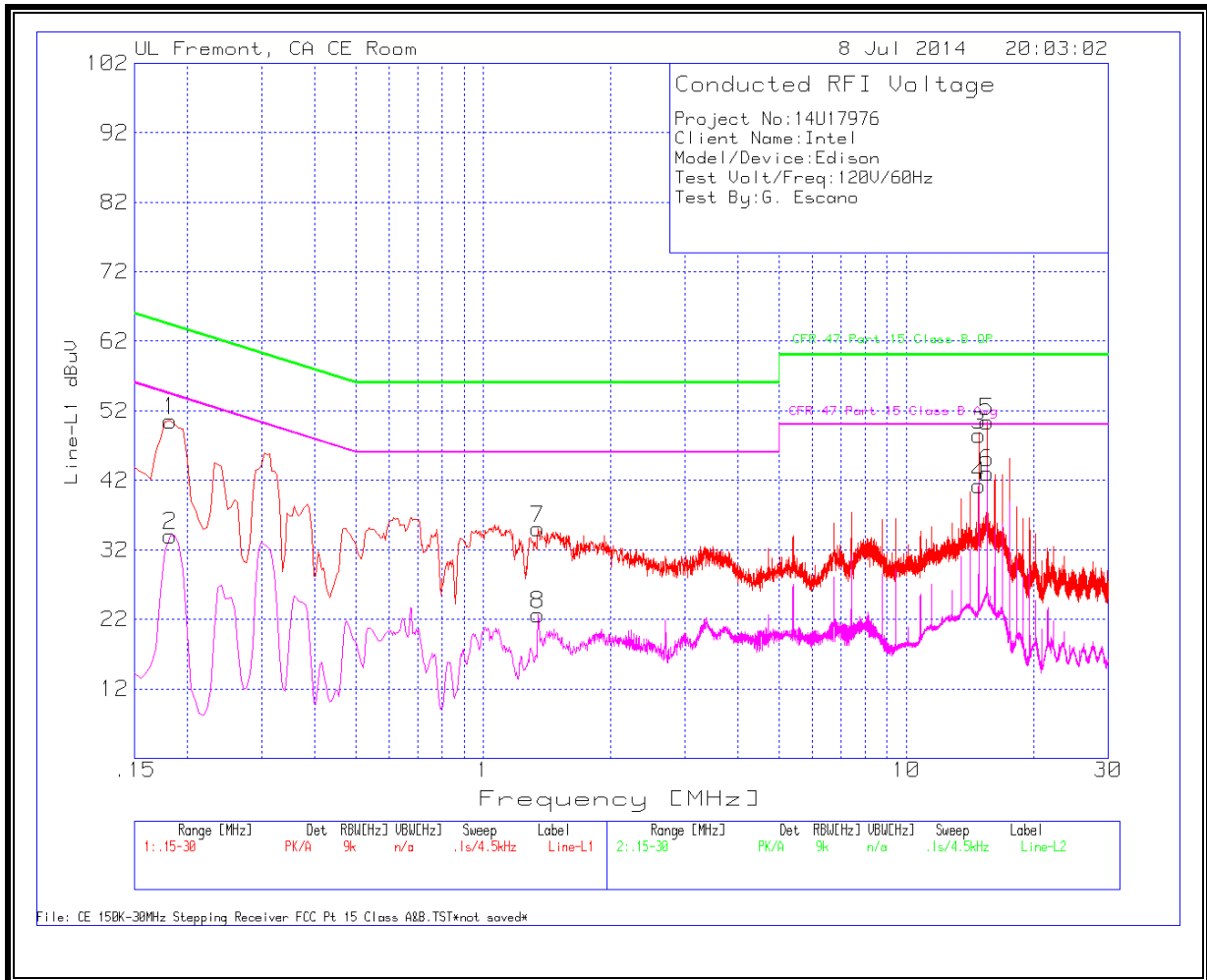
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

6 WORST EMISSIONS

LINE 1 RESULTS

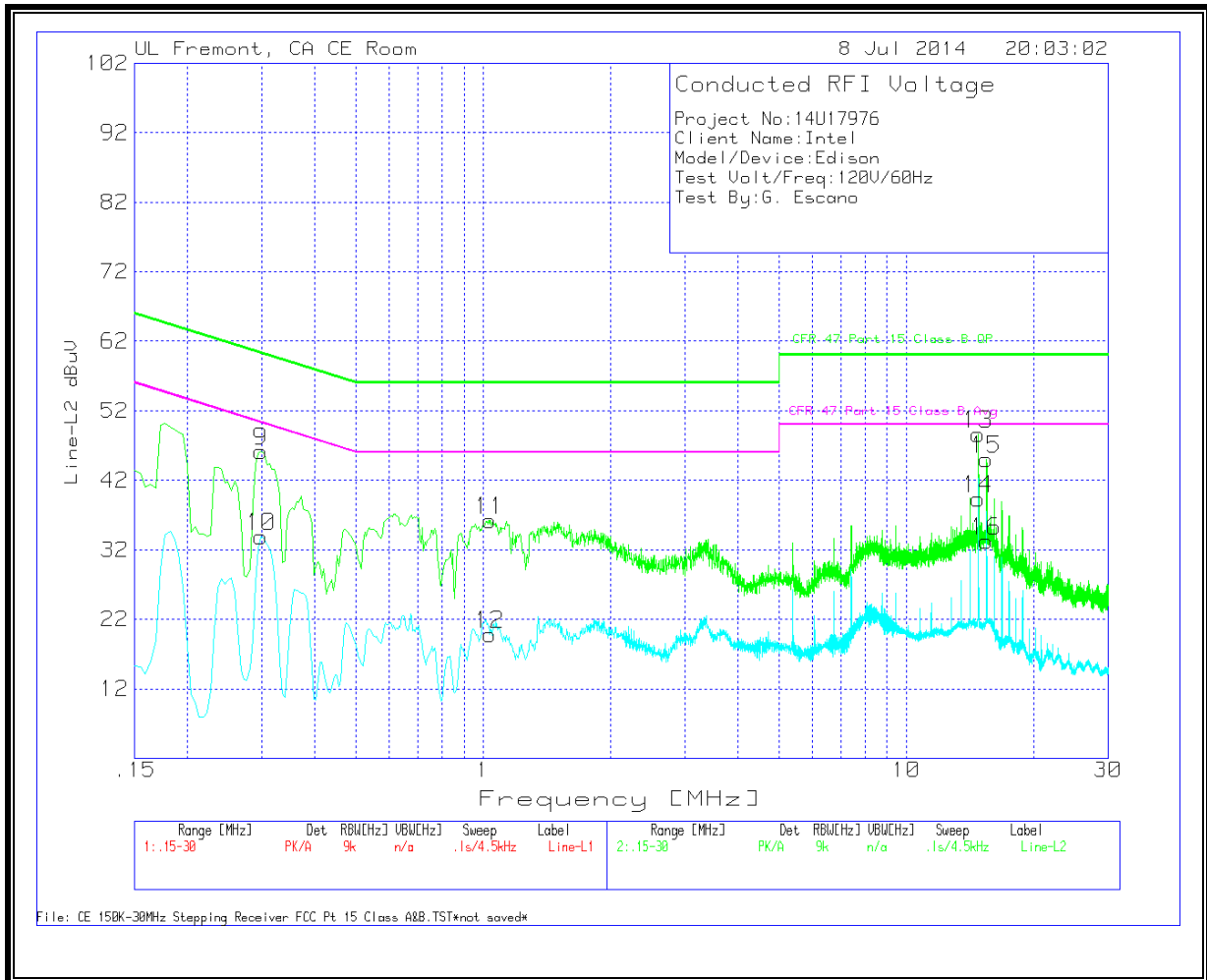


Line-L1 .15 - 30MHz

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1 (dB)	LC Cables 1&3 (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	Margin to Limit (dB)	CFR 47 Part 15 Class B Avg	Margin to Limit (dB)
1	.1815	49.42	PK	1.1	0	50.52	64.4	-13.88	-	-
2	.1815	32.97	Av	1.1	0	34.07	64.4	-30.33	54.4	-20.33
7	1.347	34.71	PK	.2	.1	35.01	56	-20.99	-	-
8	1.347	22.4	Av	.2	.1	22.7	56	-33.3	46	-23.3
3	14.8335	48.14	PK	.2	.2	48.54	60	-11.46	-	--
4	14.8335	40.82	Av	.2	.2	41.22	60	-18.78	50	-8.78
5	15.5085	49.95	PK	.3	.2	50.45	60	-9.55	-	-
6	15.5085	42.59	Av	.3	.2	43.09	60	-16.91	50	-6.91

LINE 2 RESULTS



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	CFR 47 Part 15 Class B QP	Margin to Limit (dB)	CFR 47 Part 15 Class B Avg	Margin to Limit (dB)
9	.2985	45.54	PK	.6	0	46.14	60.3	-14.16	-	--
10	.2985	33.28	Av	.6	0	33.88	60.3	-26.42	50.3	-16.42
11	1.0365	35.96	PK	.3	0	36.26	56	-19.74	-	--
12	1.0365	19.49	Av	.3	0	19.79	56	-36.21	46	-26.21
13	14.811	48.08	PK	.3	.2	48.58	60	-11.42	-	-
14	14.811	38.81	Av	.3	.2	39.31	60	-20.69	50	-10.69
15	15.468	44.55	PK	.3	.2	45.05	60	-14.95	-	-
16	15.468	32.8	Av	.3	.2	33.3	60	-26.7	50	-16.7

PK - Peak detector
Av - average detection