TEST REPORT

Report Number : 11360398-E3V3

Applicant	:	JUNE LIFE INC. 1805 BROADWAY SAN FRANCISCO, CA 94109, U.S.A.
Model	:	JCP01
FCC ID	:	2AJGA-CP16A
IC ID	:	21848-CP16A
EUT Description	:	INTELLIGENT OVEN Wi-Fi / BLUETOOTH
Test Standard(s)	:	FCC 47 CFR PART 15 SUBPART C INDUSTRY CANADA RSS-247 ISSUE 1 INDUSTRY CANADA RSS-GEN Issue 4

Date of Issue:
11/7/2016

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NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
V1	10/13/16	Initial Issue	D. Coronia
V2	10/28/16	Updated Section 5.5, 9.5.2, 9.5.3 & 9.5.4	D. Coronia
V3	11/07/16	Updated Section 5.2, 9.4.3 & 9.4.4	D. Coronia

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: JUNE LIFE INC.

EUT DESCRIPTION: INTELLIGENT OVEN Wi-Fi / BLUETOOTH

MODEL: JCP01

SERIAL NUMBER: KQ263C0006

DATE TESTED: JULY 28 - AUGUST 8, 2016

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
CFR 47 Part 15 Subpart C	Pass
INDUSTRY CANADA RSS-247 Issue 1	Pass
INDUSTRY CANADA RSS-GEN Issue 4	Pass

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

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

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013, FCC CFR 47 Part 2, FCC CFR 47 Part 15, RSS-GEN Issue 4, and RSS-247 Issue 1.

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(IC: 2324B-1)	☐ Chamber D(IC: 2324B-4)
☒ Chamber B(IC: 2324B-2)	☐ Chamber E(IC: 2324B-5)
☐ Chamber C(IC: 2324B-3)	☐ Chamber F(IC: 2324B-6)
	☐ Chamber G(IC: 2324B-7)
	☐ Chamber H(IC: 2324B-8)

The above test sites and facilities are covered under FCC Test Firm Registration # 208313. Chambers A through H are covered under Industry Canada company address code 2324B with site numbers 2324B -1 through 2324B-8, respectively.

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:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)

36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

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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	3.84 dB
Radiated Disturbance, 9KHz to 30 MHz	2.14 dB
Radiated Disturbance, 30 to 1000 MHz	4.98 dB
Radiated Disturbance,1000 to 6000 MHz	3.86 dB
Radiated Disturbance,6000 to 18000 MHz	4.23 dB
Radiated Disturbance,18000 to 26000 MHz	5.30 dB
Radiated Disturbance,26000 to 40000 MHz	5.23 dB

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

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5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is an Intelligent OVEN Wi-Fi / Bluetooth.

5.2. MAXIMUM OUTPUT POWER

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

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
2412 - 2462	802.11b SISO	15.41	34.75
2412 - 2462	802.11g SISO	11.90	15.49
2412 - 2462	802.11n HT20 MIMO	13.14	20.61
2422 - 2452	802.11n HT40 MIMO	9.02	7.98

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a PIFA antenna, with a maximum gain as below:

Frequency (MHz)	Max. Peak Gain (dBi) (Main)	Max. Peak Gain (dBi) (Aux)
2400-2483.5	2.98	2.98

5.4. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was Broadcom, rev. 6.37 RC32.0.

The EUT driver software installed during testing was Broadcom, rev. 6.37.32.0.

The test utility software used during testing was Broadcom, rev. 6.10.197.111.1 (r446629 WLTEST).

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5.5. WORST-CASE CONFIGURATION AND MODE

Above 1GHz Low/Middle/High channels were tested for radiated emissions with the EUT set to transmit at the channels with highest output power as worst-case scenario.

The EUT can only be setup in desktop orientation; therefore, all radiated testing was performed with the EUT in desktop orientation.

Radiated emission below 1GHz, above 18GHz, and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

SISO mode was performed at chain 0.
MIMO mode was performed at chain 0 and 1.

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

802.11a mode: MCS0
802.11n HT20mode: MCS8
802.11n HT40mode: MCS8

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5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	**Manufacturer**	**Model**	**Serial Number**	**FCC ID**
Laptop	Lenovo	T450	PC-04AVGP	PD97265NGU
AC Adapter	Lenovo	ADLX65NLC2A	PA-1650-71	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	DC	unshielded	1	N/A
2	USB port	1	Micro-USB	unshielded	3	Ferrite at Micro-USB side
3	DC	1	20V DC	Unshielded	1.5	
4	AC	1	US115V	Unshielded	1	

TEST SETUP

The EUT is a stand-alone unit, and the radio is exercised by software, Broadcom rev 6.10.197.111.1 (r446629 WLTEST) via USB cable.

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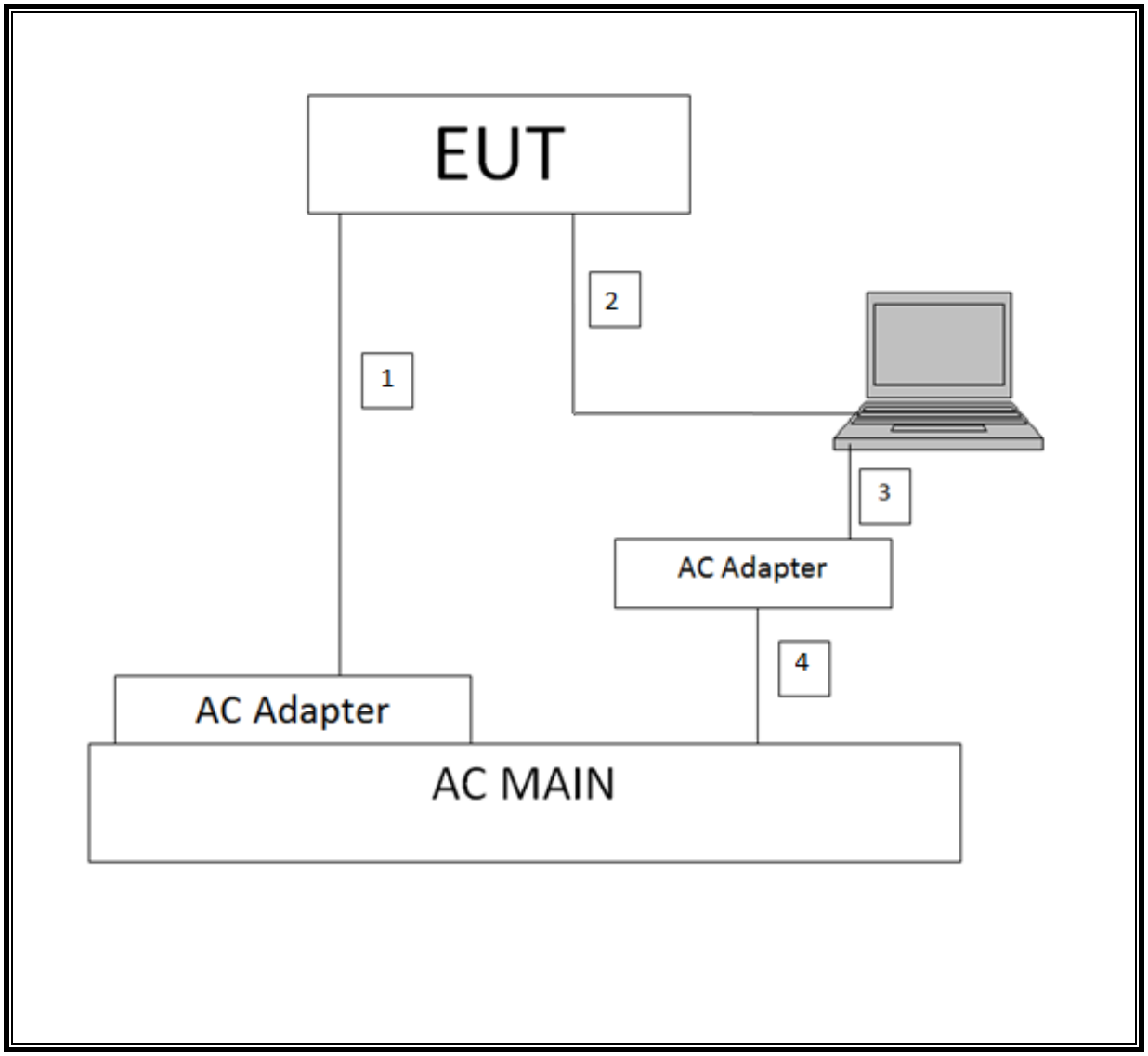
SETUP DIAGRAM FOR TESTS



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6. ST AND MEASUREMENT EQUIPMENT

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

Test Equipment List					
Description	Manufacturer	Model	T No.	Cal Date	Cal Due
Amplifier, 1 - 18GHz	Miteq	AFS42	493	03/09/16	03/09/17
Amplifier, 10KHz to 1GHz, 32dB	HP	8447D	10	02/01/16	02/01/17
Amplifier, 1GHz to 26.5GHz, 23.5dB	Agilent	8449B	404	07/05/16	07/05/17
Antenna, Broadband Hybrid 30MHz to 2000MHz	Sunol Science	JB1	130	09/01/15	09/01/16
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	345	03/07/16	03/07/17
Antenna, Horn 18-26.5GHz	Seavey Division	MWH-1826/B	449	05/26/16	05/26/17
EMI Test Receiver 9Khz-7GHz	R& S	ESCI7	1436	09/10/15	09/10/16
LISN for Conducted Emissions	Fischer	50/250-25-2	1310	09/16/15	09/16/16
Loop Antenna, 10KHz-30MHz	EMCO	6502	35	03/24/16	03/24/17
Power Cable, Line Conducted Emissions	U L	PG1	N/A	07/28/16	07/28/17
Power Meter, P-series single channel	Keysight	N1911A	1262	07/08/16	07/08/17
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Agilent	N1921A	750	09/17/15	09/17/16
PSA Spectrum Analyzer 40GHz	Agilent	E4446A	146	07/13/16	07/13/17
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent	N9030A	907	01/06/16	01/06/17

Test Software List			
Description	Manufacturer	Model	Version
Radiated Software	UL	UL EMC	Ver 9.5, Apr 26, 2016
Conducted Software	UL	UL EMC	Ver 9.5, May 26, 2015
Antenna Port Software	UL	UL RF	Ver 5.1.1, July 15, 2016

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7. MEASUREMENT METHOD

On Time and Duty Cycle: KDB 558074 D01 v03r05, Section 6.

6 dB BW: KDB 558074 D01 v03r05, Section 8.1.

Output Power: KDB 558074 D01 v03r05, Section 9.2.3.2.

Power Spectral Density: KDB 558074 D01 v03r05, Section 10.5.

Out-of-band emissions in non-restricted bands: KDB 558074 D01 v03r05, Section 11.0.

Out-of-band emissions in restricted bands: KDB 558074 D01 v03r05, Section 12.1.

Band-edge: KDB 558074 D01 v03r05, Section 12.1.

AC Power Line Conducted Emissions: ANSI C63.10-2013, Section 6.2.

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8. SUMMARY TABLE

FCC Part Section	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result
15.247 (a)(2)	RSS-247 5.2.1	Occupied Band width (6dB)	>500KHz	Conducted	Pass
2.1051, 15.247 (d)	RSS-247 5.5	Band Edge / Conducted Spurious Emission	-30dBc		Pass
15.247	RSS-247 5.4.4	TX conducted output power	<30dBm		Pass
15.247	RSS-247 5.2.2	PSD	<8dBm		Pass
15.207 (a)	RSS-GEN 8.8	AC Power Line conducted emissions	Section 10	Radiated	Pass
15.205, 15.209, 15.247(d)	RSS-GEN 8.9/7	Radiated Spurious Emission	< 54dBuV/m		Pass

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9. ANTENNA PORT TEST RESULTS

9.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

PROCEDURE

KDB 558074 D01 v03r05 Section 6 (b)

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	12.400	12.500	0.992	99.20%	0.00	0.010
802.11g 1TX	2.067	2.158	0.958	95.78%	0.19	0.484
802.11n HT20 CDD	0.985	1.085	0.908	90.78%	0.42	1.015
802.11n HT40 CDD	0.497	0.597	0.832	83.24%	0.80	2.013

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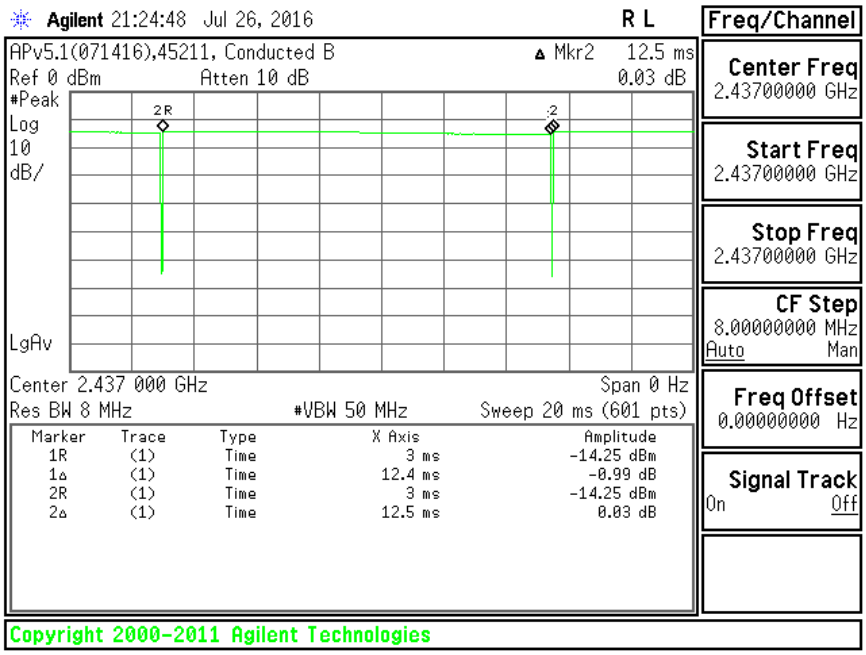
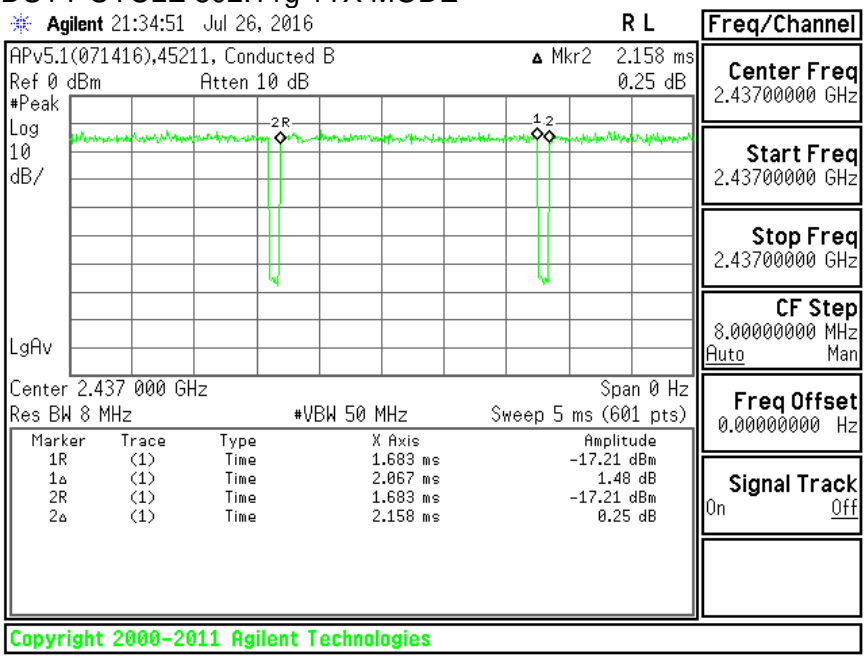
DUTY CYCLE PLOTS

DUTY CYCLE 802.11b 1TX MODE



DUTY CYCLE 802.11g 1TX MODE



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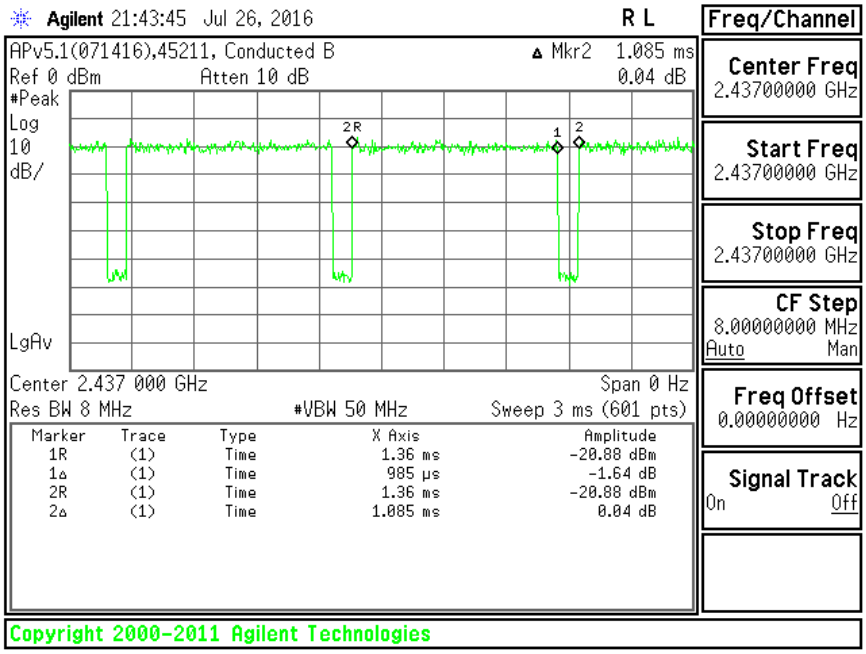
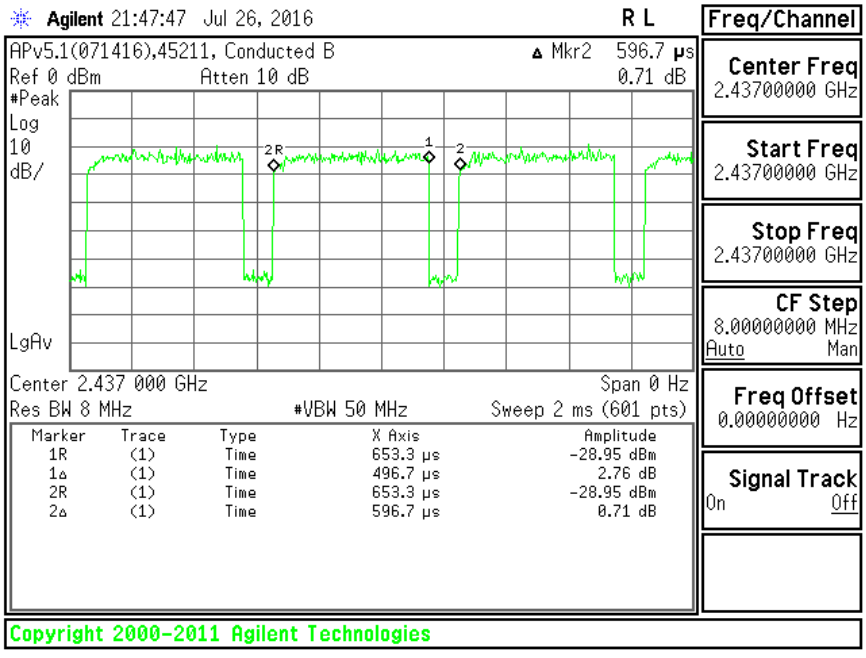
DUTY CYCLE 802.11n HT20 CDD MODE



DUTY CYCLE 802.11n HT40 CDD MODE



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9.2. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

IC RSS-247 5.2.1

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

TEST PROCEDURE

KDB 558074 D01 v03r05 Section 8.1

RESULTS

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9.2.1. 802.11b MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	6 dB BW Chain 0 (MHz)	Minimum Limit (MHz)
Low	2412	8.099	0.5
Mid	2437	8.567	0.5
High	2462	9.030	0.5

9.2.2. 802.11g MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	6 dB BW Chain 0 (MHz)	Minimum Limit (MHz)
Low	2412	15.648	0.5
Mid	2437	15.336	0.5
High	2462	15.456	0.5

9.2.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	Minimum Limit (MHz)
Low	2412	15.456	16.275	0.5
Mid	2437	15.157	15.696	0.5
High	2462	15.042	16.275	0.5

9.2.4. 802.11n HT20 MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	Minimum Limit (MHz)
Low	2422	36.355	36.355	0.5
Mid	2437	36.355	36.355	0.5
High	2452	36.550	36.300	0.5

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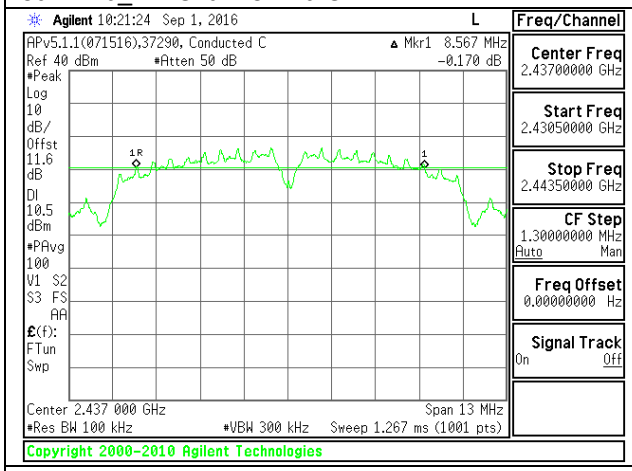
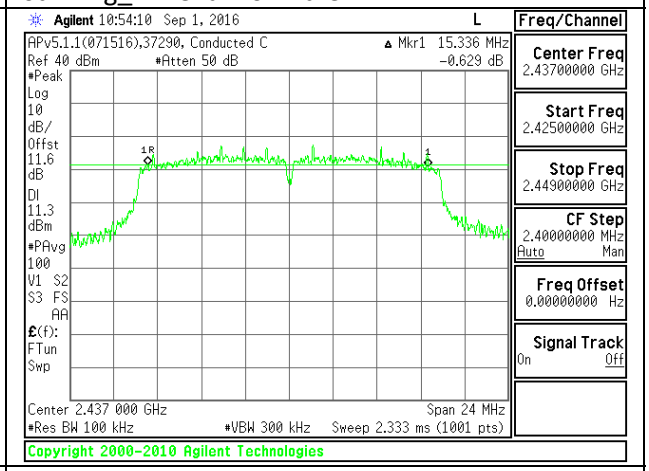
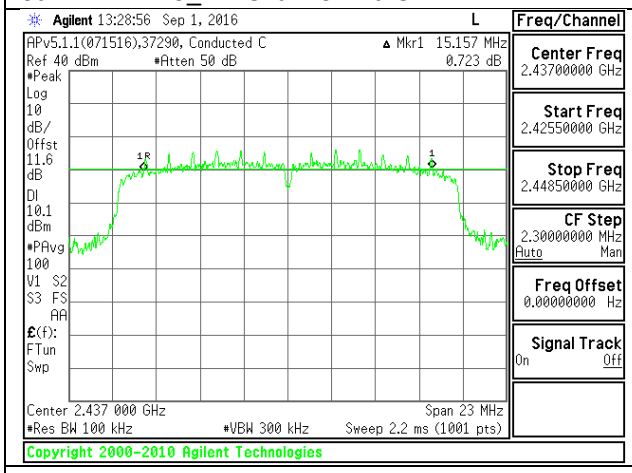
6dB 11b_2.4 Chain 0 Mid Ch



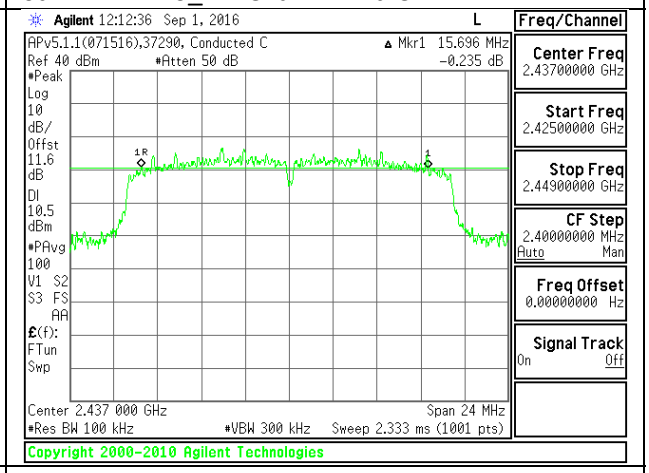
6dB 11g_2.4 Chain 0 Mid Ch



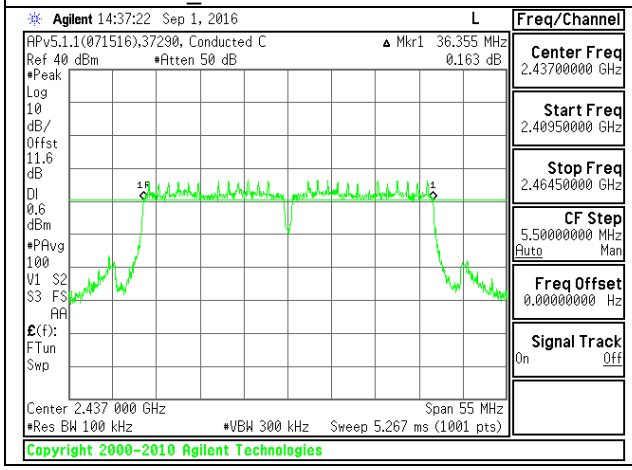
6dB 11n HT20_2.4 Chain 0 Mid Ch



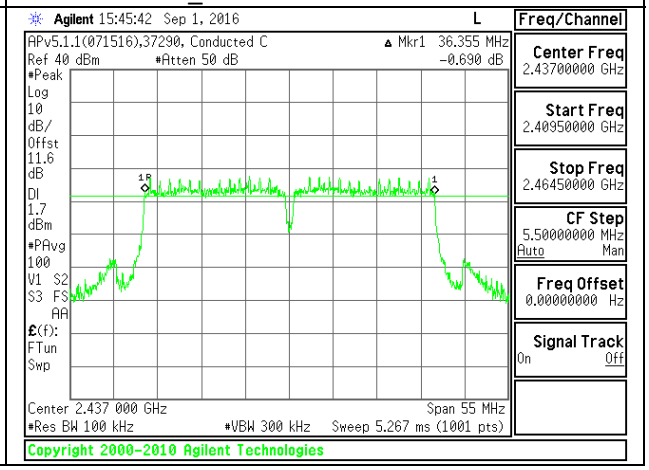
6dB 11n HT20_2.4 Chain 1 Mid Ch



6dB 11n HT40_2.4 Chain 0 Mid Ch



6dB 11n HT40_2.4 Chain 1 Mid Ch



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9.3. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

ANSI C63.10: 2013 Section 6.9.3

RESULTS

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9.3.1. 802.11b MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)
Low	2412	12.0069
Mid	2437	10.7200
High	2462	11.1878

9.3.2. 802.11g MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)
Low	2412	16.1956
Mid	2437	16.2949
High	2462	16.1555

9.3.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	2412	17.5323	17.5391
Mid	2437	17.6257	17.8082
High	2462	17.4689	17.4835

9.3.1. 802.11n HT40 MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	2422	36.7094	36.4117
Mid	2437	36.4946	36.4465
High	2452	36.6976	36.4566

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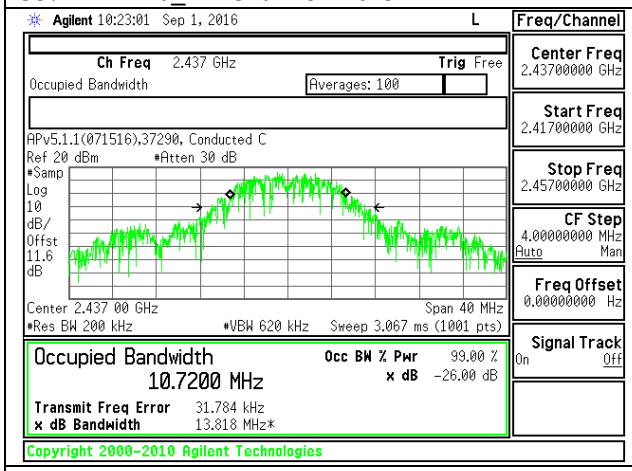
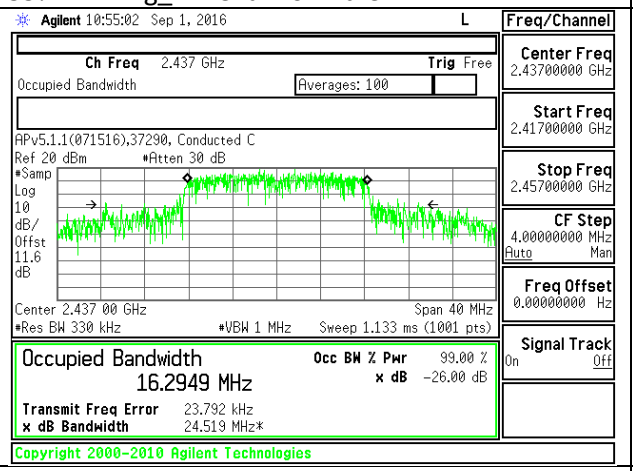
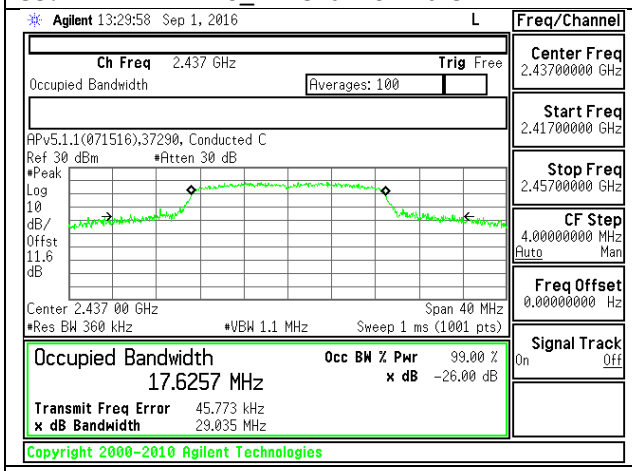
99% BW 11b_2.4 Chain 0 Mid Ch



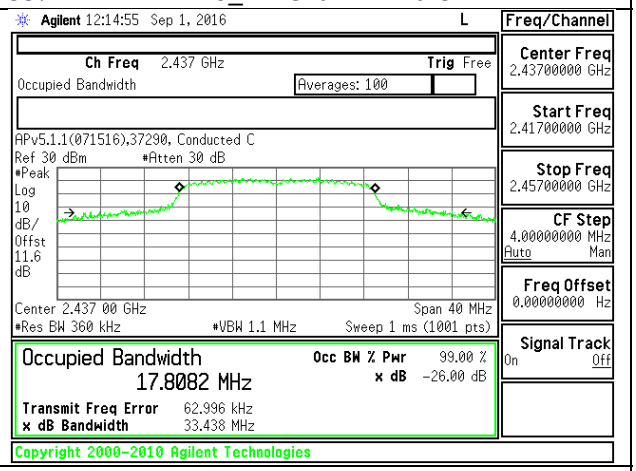
99% BW 11g_2.4 Chain 0 Mid Ch



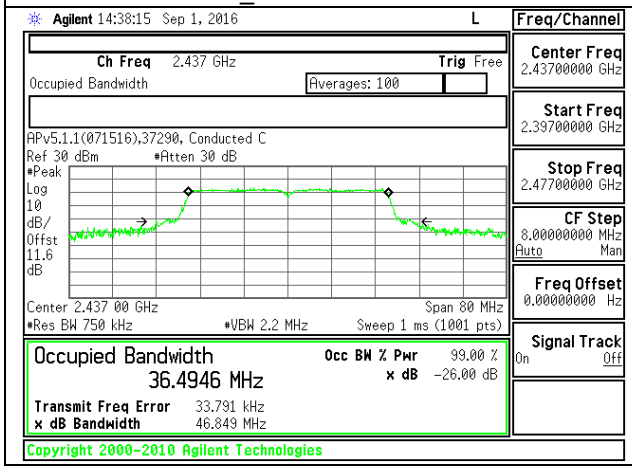
99% BW 11n HT20_2.4 Chain 0 Mid Ch



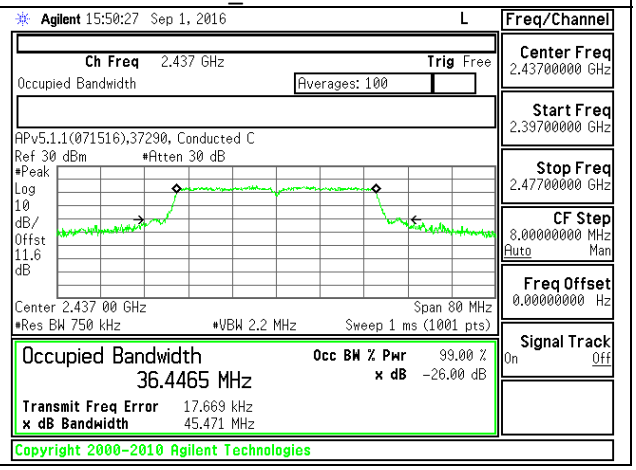
99% BW 11n HT20_2.4 Chain 1 Mid Ch



99% BW 11n HT40_2.4 Chain 0 Mid Ch



99% BW 11n HT40_2.4 Chain 1 Mid Ch



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9.4. OUTPUT POWER

LIMITS

FCC §15.247 (b)

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. The total conducted output power shall be reduced by 1 dB below the specified limits for each 3 dB that the directional gain of the antenna/antenna array exceeds 6 dBi.

IC RSS-247 5.4.4

For DTSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W. Except as provided in Section 5.4(5), the e.i.r.p. shall not exceed 4 W.

DIRECTIONAL ANTENNA GAIN

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)
2.98	2.98	2.98

TEST PROCEDURE

KDB 558074 D01 v03r05 Section 9.2.3.2

RESULTS

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9.4.1. 802.11b MODE IN THE 2.4 GHz BAND

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low	2412	2.98	30.00	30	36	30.00
Mid	2437	2.98	30.00	30	36	30.00
High	2462	2.98	30.00	30	36	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low	2412	15.25	15.25	30.00	-14.75
Mid	2437	15.12	15.12	30.00	-14.88
High	2462	15.41	15.41	30.00	-14.59

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

ID:	39270	Date:	8/8/16

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9.4.2. 802.11g MODE IN THE 2.4 GHz BAND

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low	2412	2.98	30.00	30	36	30.00
Mid	2437	2.98	30.00	30	36	30.00
High	2462	2.98	30.00	30	36	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low	2412	11.50	11.50	30.00	-18.50
Mid	2437	11.90	11.90	30.00	-18.10
High	2462	12.18	12.18	30.00	-17.82

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

ID:	39270	Date:	8/8/16

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9.4.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low	2412	2.98	30.00	30	36	30.00
Mid	2437	2.98	30.00	30	36	30.00
High	2462	2.98	30.00	30	36	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low	2412	9.80	10.40	13.12	30	-16.88
Mid	2437	9.99	10.27	13.14	30	-16.86
High	2462	7.60	8.62	11.15	30	-18.85

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

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9.4.4. 802.11n HT40 MODE IN THE 2.4 GHz BAND

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low	2422	2.98	30.00	30	36	30.00
Mid	2437	2.98	30.00	30	36	30.00
High	2452	2.98	30.00	30	36	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margi (dB)
Low	2422	4.75	6.20	8.55	30.00	-21.45
Mid	2437	4.70	6.27	8.57	30.00	-21.43
High	2452	5.21	6.69	9.02	30.00	-20.98

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

ID:	39270	Date:	8/8/16

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9.5. POWER SPECTRAL DENSITY

LIMITS

FCC §15.247

IC RSS-247 5.2.2

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

TEST PROCEDURE

KDB 558074 D01 v03r05 Section 10.5 (Option: Method AVGPSD-2)

RESULTS

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9.5.1. 802.11b MODE IN THE 2.4 GHz BAND

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Total Corr'd PSD (dBm)	Limit (dBm)	Margin (dB)
Low	2412	6.55	6.55	8.0	-1.4
Mid	2437	3.13	3.13	8.0	-4.9
High	2462	4.37	4.37	8.0	-3.6

9.5.2. 802.11g MODE IN THE 2.4 GHz BAND

Duty Cycle CF (dB)	0.19	Included in Calculations of Corr'd PSD

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Total Corr'd PSD (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-2.01	-1.82	8.0	-9.8
Mid	2437	3.56	3.75	8.0	-4.2
High	2462	-2.43	-2.24	8.0	-10.2

9.5.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

Duty Cycle CF (dB)	0.42	Included in Calculations of Corr'd PSD

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Chain 1 Meas (dBm)	Total Corr'd PSD (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-3.16	-3.01	0.34	8.0	-7.7
Mid	2437	1.82	3.08	5.92	8.0	-2.1
High	2462	-4.32	-3.28	-0.34	8.0	-8.3

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9.5.4. 802.11n HT40 MODE IN THE 2.4 GHz BAND

Duty Cycle CF (dB)	0.80	Included in Calculations of Corr'd PSD

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Chain 1 Meas (dBm)	Total Corr'd PSD (dBm)	Limit (dBm)	Margin (dB)
Low	2422	-10.48	-11.23	-7.03	8.0	-15.0
Mid	2437	-6.66	-5.56	-2.26	8.0	-10.3
High	2452	-9.64	-9.32	-5.67	8.0	-13.7

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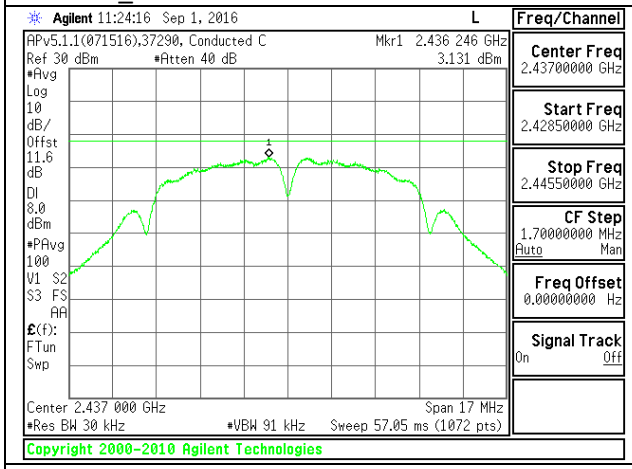
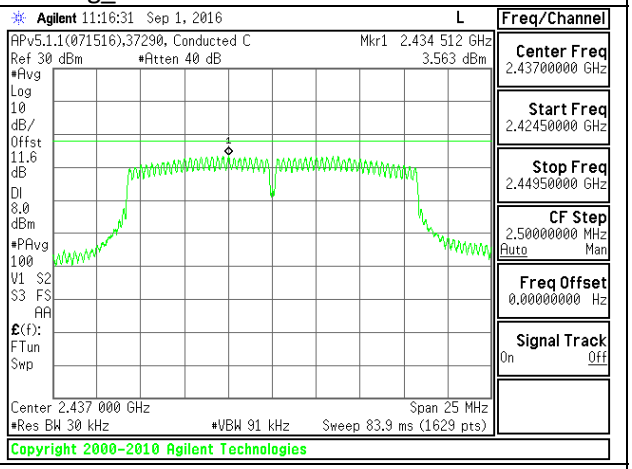
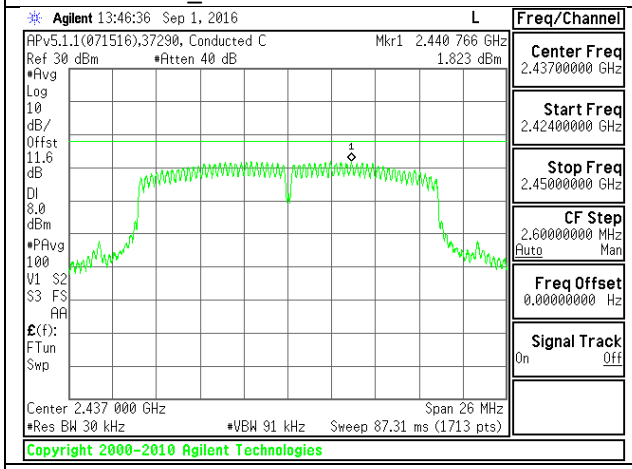
PSD 11b_2.4 Chain 0 Mid Ch



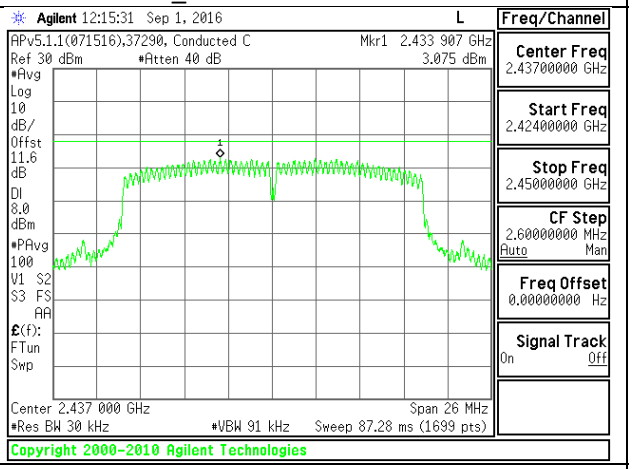
PSD 11g_2.4 Chain 0 Mid Ch



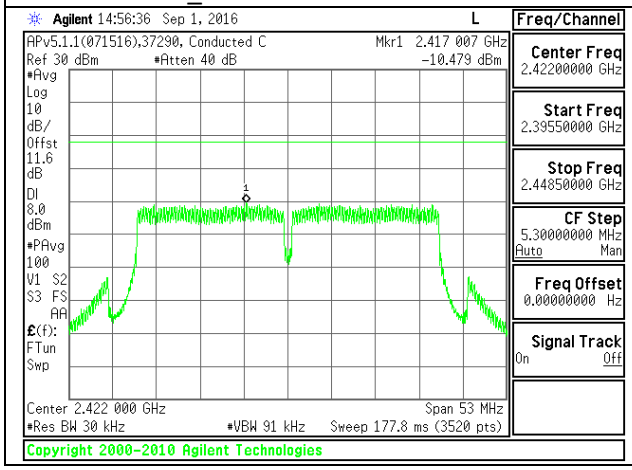
PSD 11n HT20_2.4 Chain 0 Mid Ch



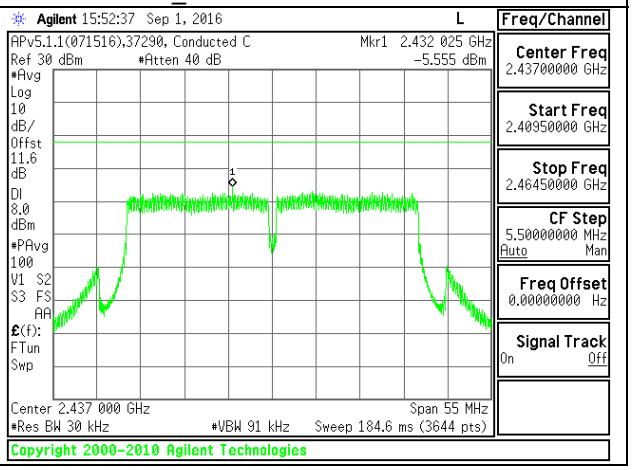
PSD 11n HT20_2.4 Chain 1 Mid Ch



PSD 11n HT40_2.4 Chain 0 Mid Ch



PSD 11n HT40_2.4 Chain 1 Mid Ch



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9.6. OUT-OF-BAND EMISSIONS

LIMITS

FCC §15.247 (d)

IC RSS-247 5.5

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

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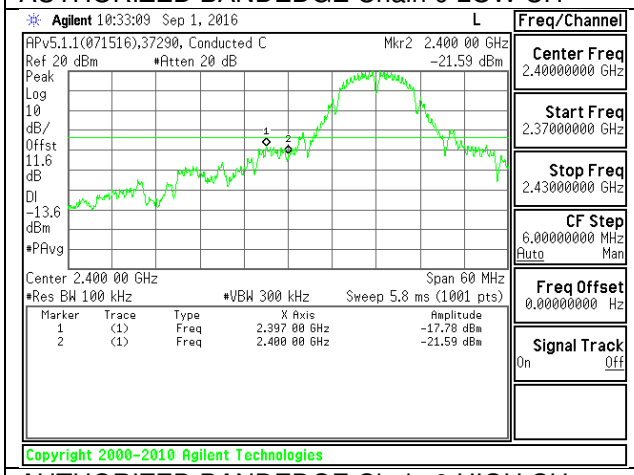
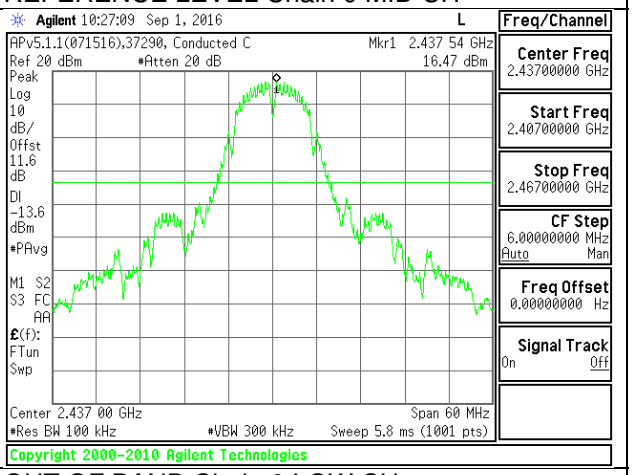
9.6.1. 802.11b MODE IN THE 2.4 GHz BAND

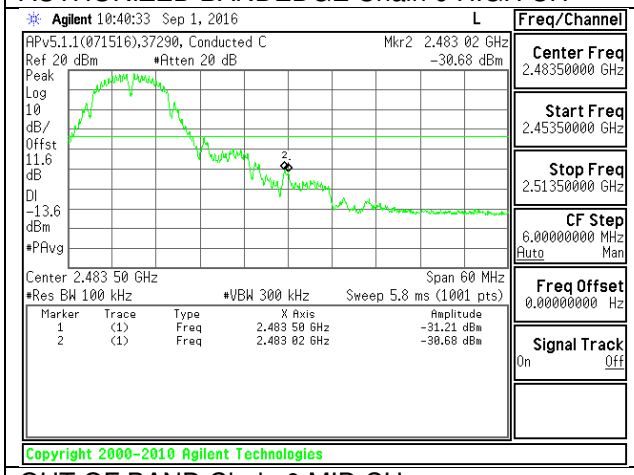
AUTHORIZED BANDEDGE Chain 0 LOW CH



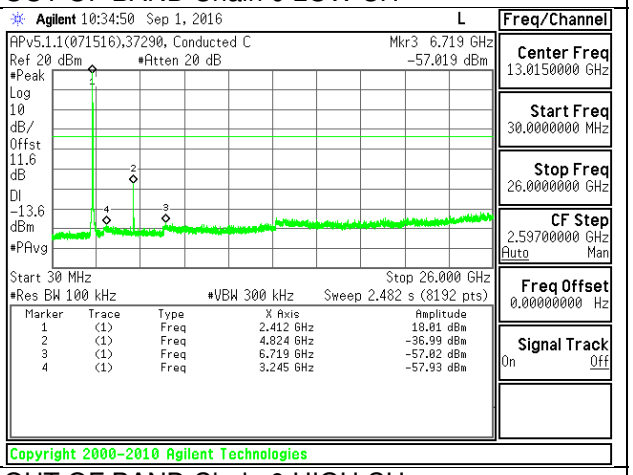
REFERENCE LEVEL Chain 0 MID CH



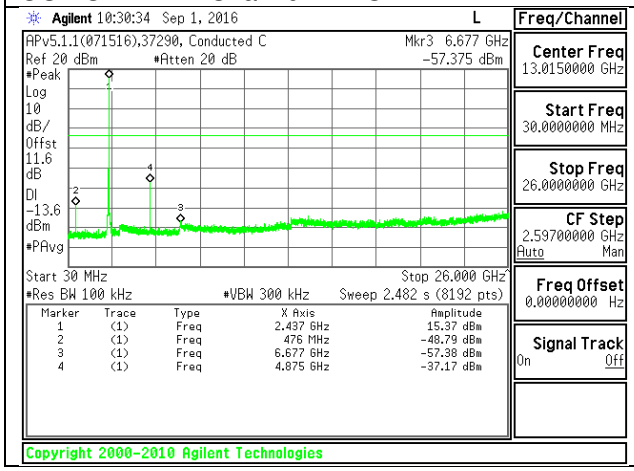
AUTHORIZED BANDEDGE Chain 0 HIGH CH



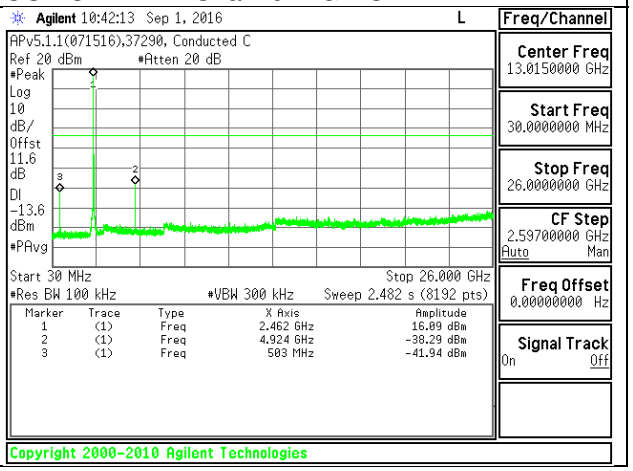
OUT OF BAND Chain 0 LOW CH



OUT OF BAND Chain 0 MID CH



OUT OF BAND Chain 0 HIGH CH



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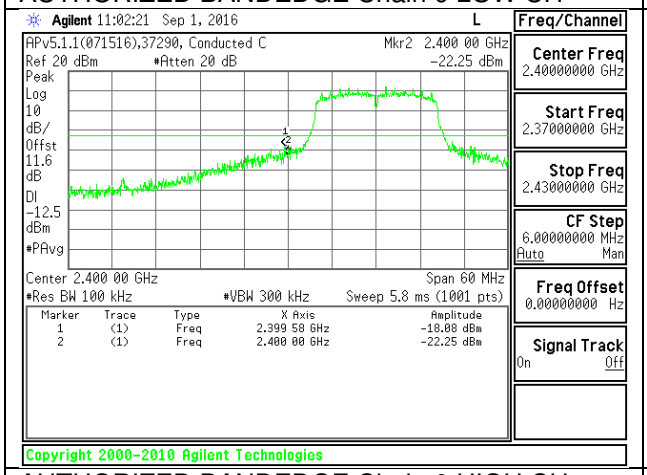
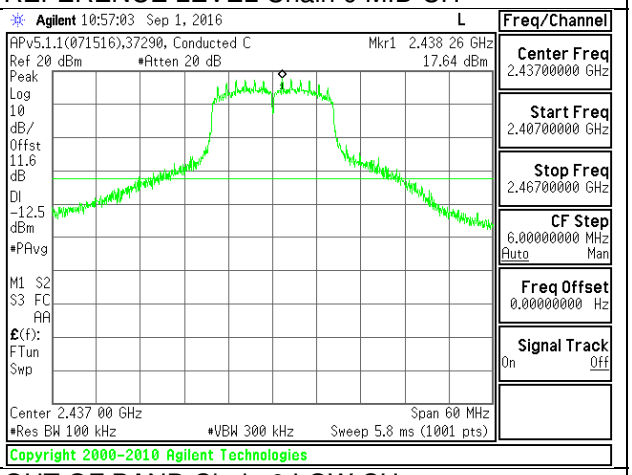
9.6.2. 802.11g MODE IN THE 2.4 GHz BAND

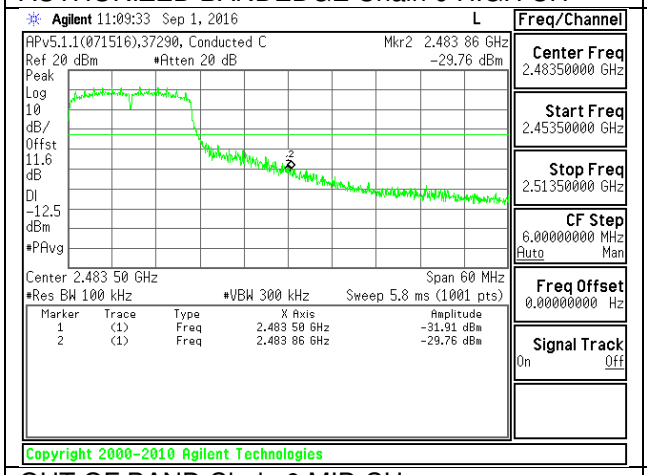
AUTHORIZED BANDEDGE Chain 0 LOW CH



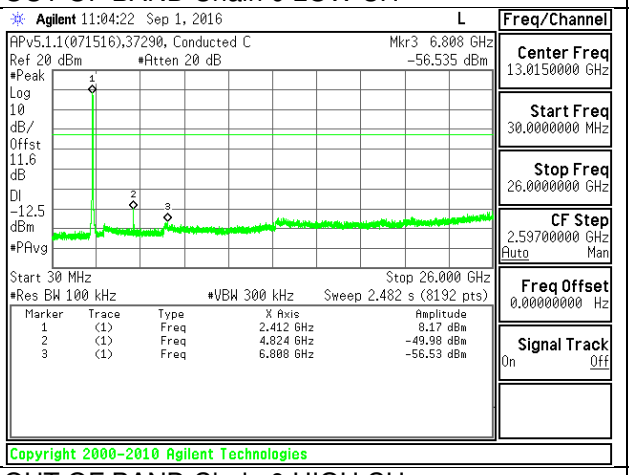
REFERENCE LEVEL Chain 0 MID CH



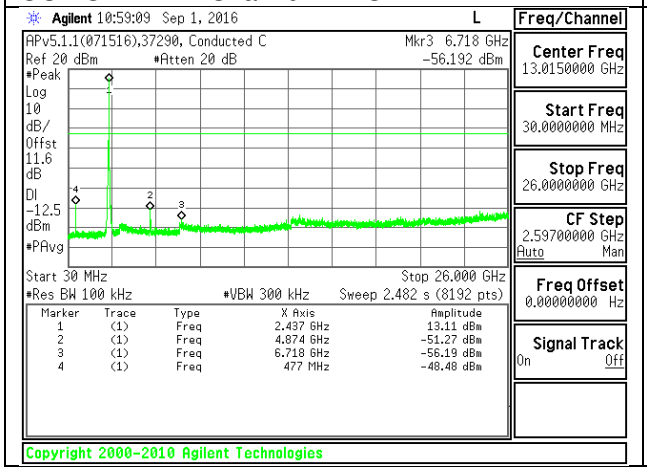
AUTHORIZED BANDEDGE Chain 0 HIGH CH



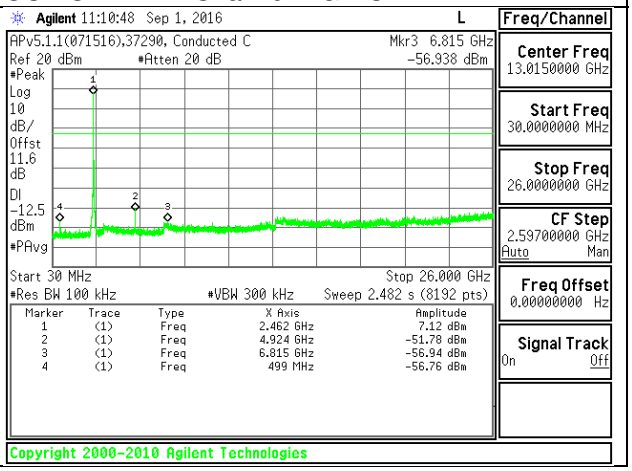
OUT OF BAND Chain 0 LOW CH



OUT OF BAND Chain 0 MID CH



OUT OF BAND Chain 0 HIGH CH



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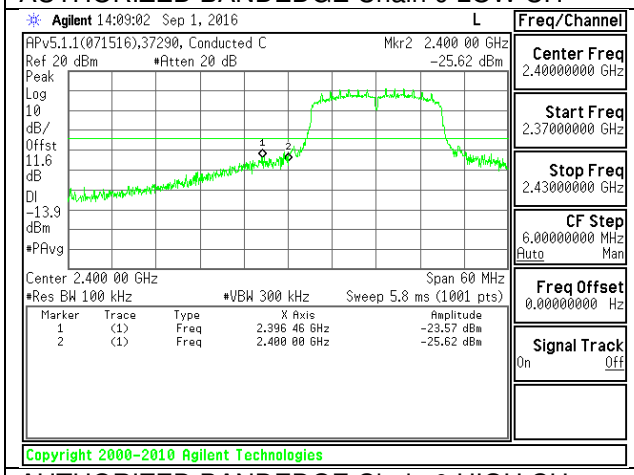
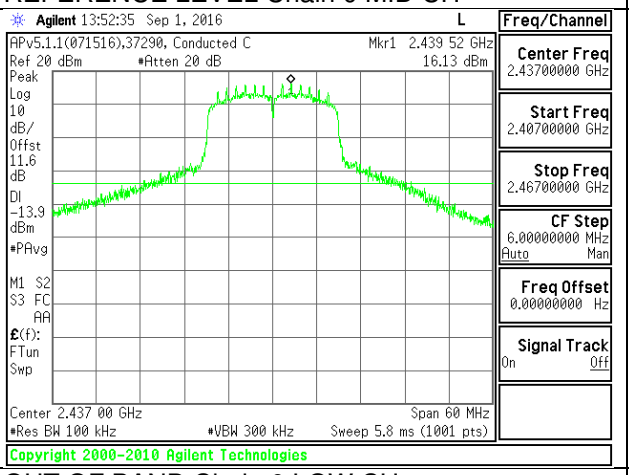
9.6.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND CHAIN 0

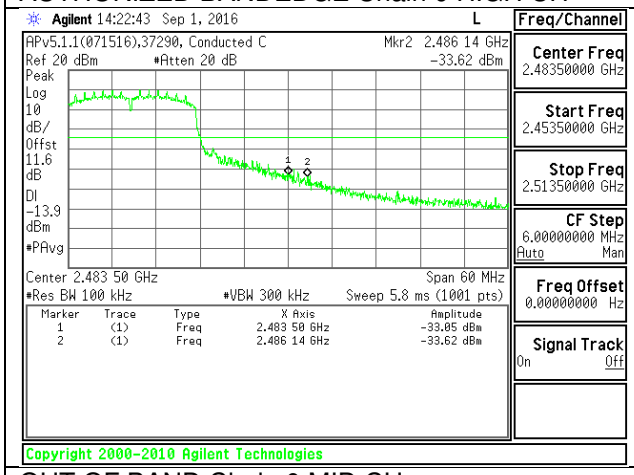
AUTHORIZED BANDEDGE Chain 0 LOW CH



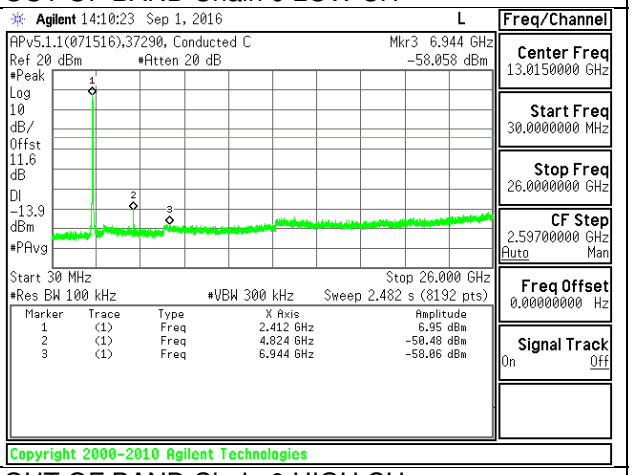
REFERENCE LEVEL Chain 0 MID CH



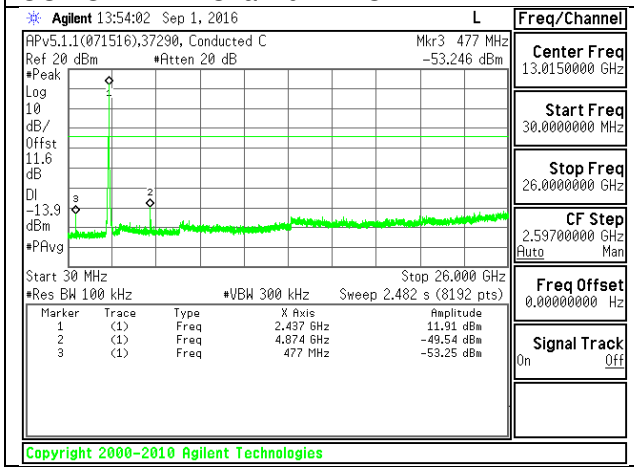
AUTHORIZED BANDEDGE Chain 0 HIGH CH



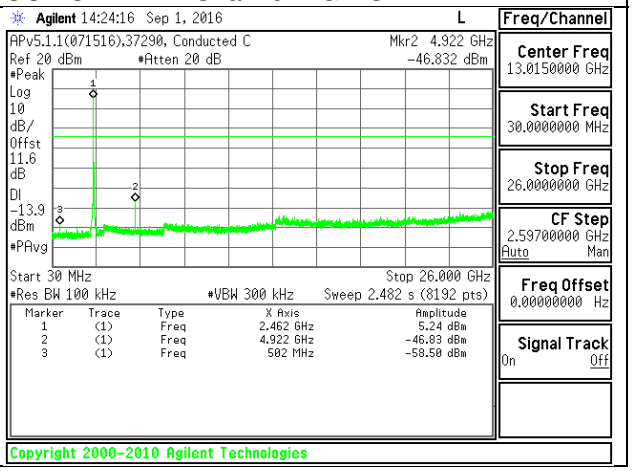
OUT OF BAND Chain 0 LOW CH



OUT OF BAND Chain 0 MID CH



OUT OF BAND Chain 0 HIGH CH



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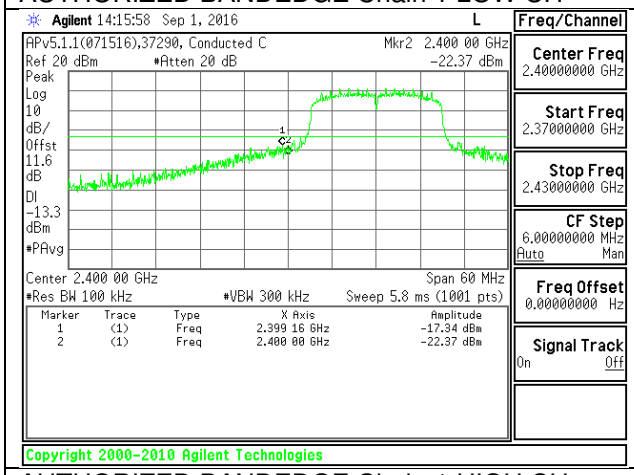
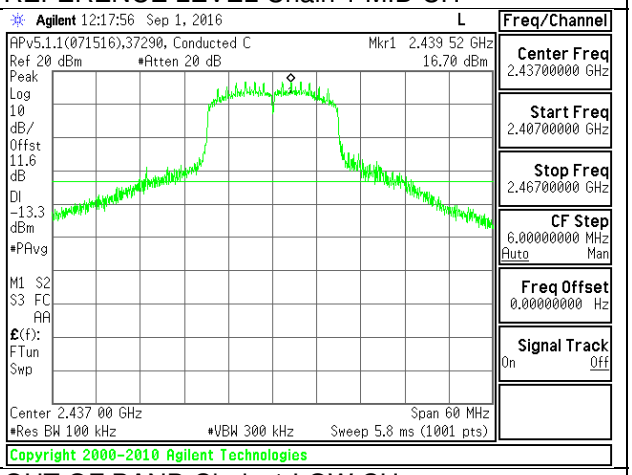
9.6.4. 802.11n HT20 MODE IN THE 2.4 GHz BAND CHAIN 1

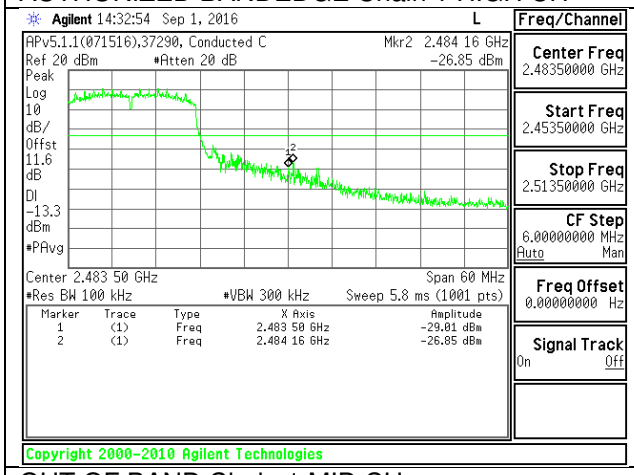
AUTHORIZED BANDEDGE Chain 1 LOW CH



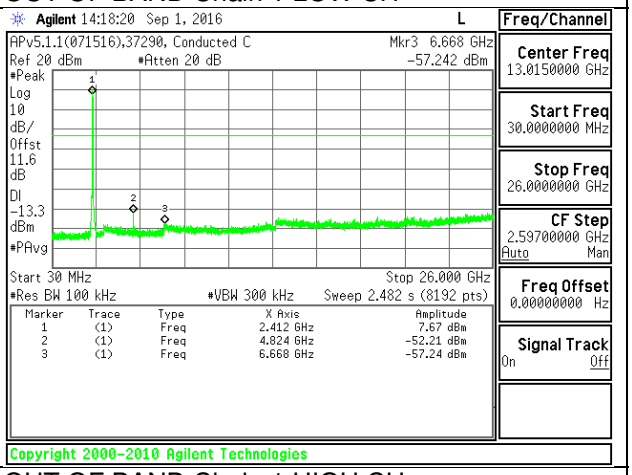
REFERENCE LEVEL Chain 1 MID CH



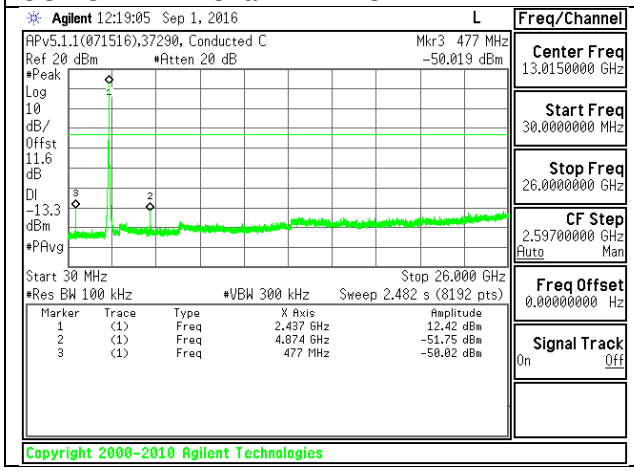
AUTHORIZED BANDEDGE Chain 1 HIGH CH



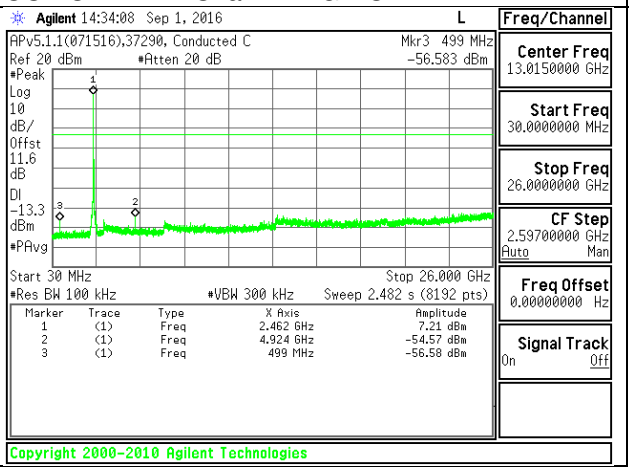
OUT OF BAND Chain 1 LOW CH



OUT OF BAND Chain 1 MID CH



OUT OF BAND Chain 1 HIGH CH



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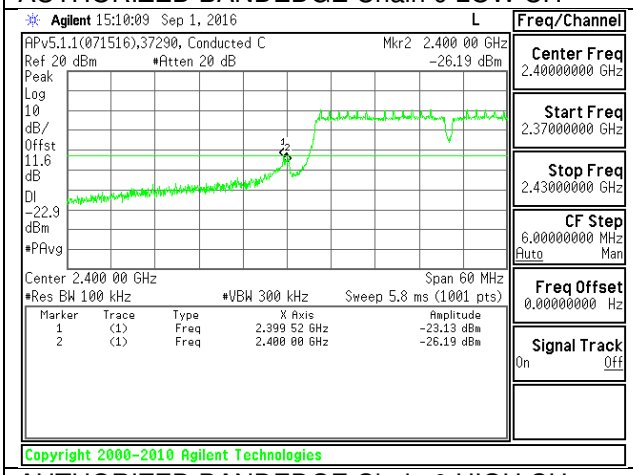
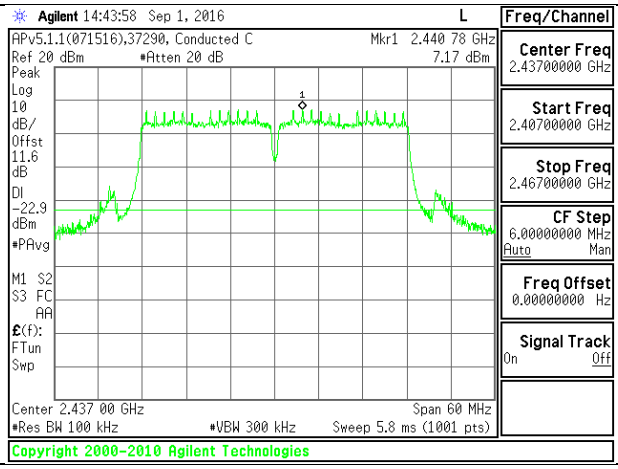
9.6.5. 802.11n HT40 MODE IN THE 2.4 GHz BAND CHAIN 0

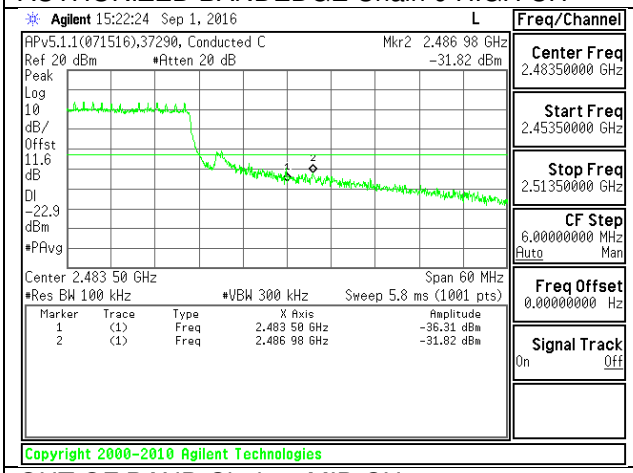
AUTHORIZED BANDEDGE Chain 0 LOW CH



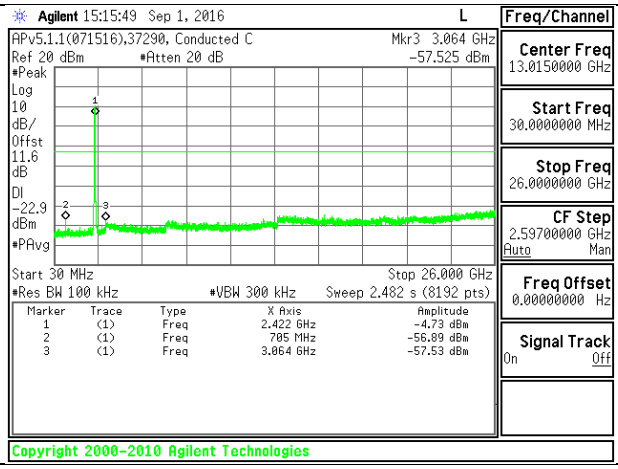
REFERENCE LEVEL Chain 0 MID CH



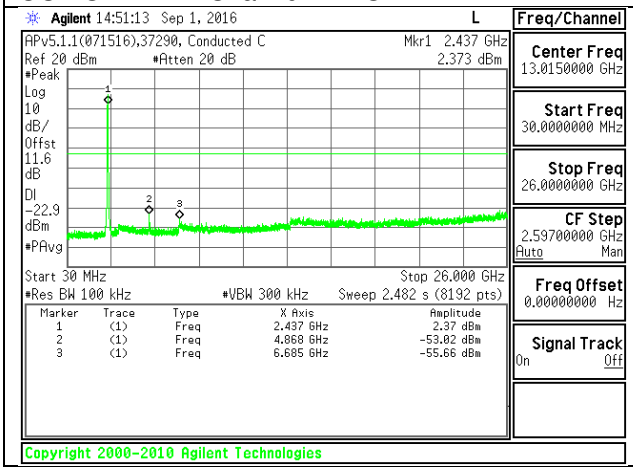
AUTHORIZED BANDEDGE Chain 0 HIGH CH



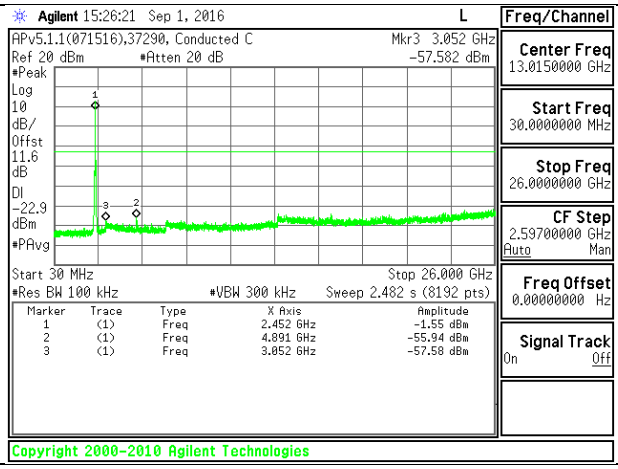
OUT OF BAND Chain 0 LOW CH



OUT OF BAND Chain 0 MID CH



OUT OF BAND Chain 0 HIGH CH



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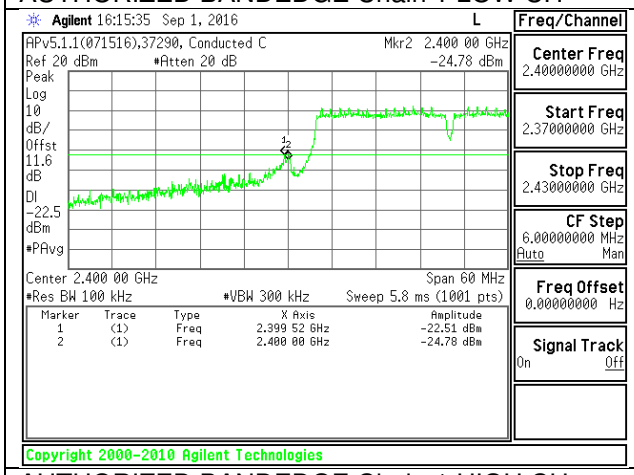
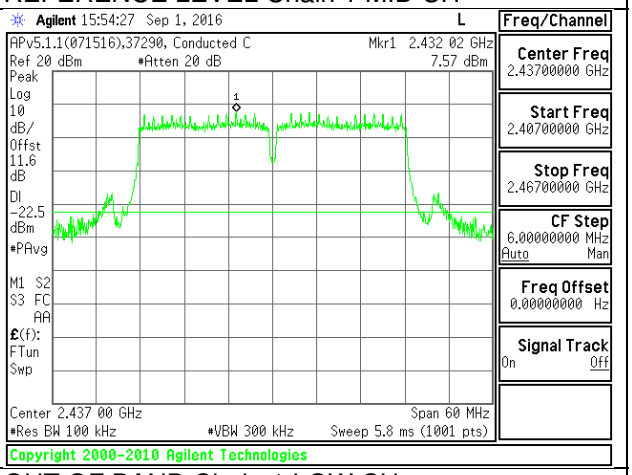
9.6.6. 802.11n HT40 MODE IN THE 2.4 GHz BAND CHAIN 1

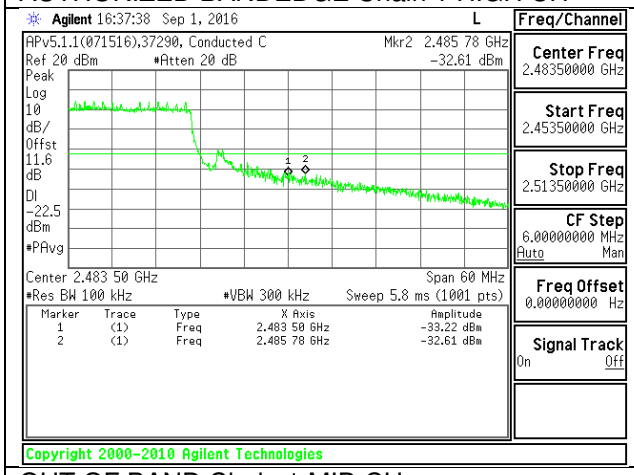
AUTHORIZED BANDEDGE Chain 1 LOW CH



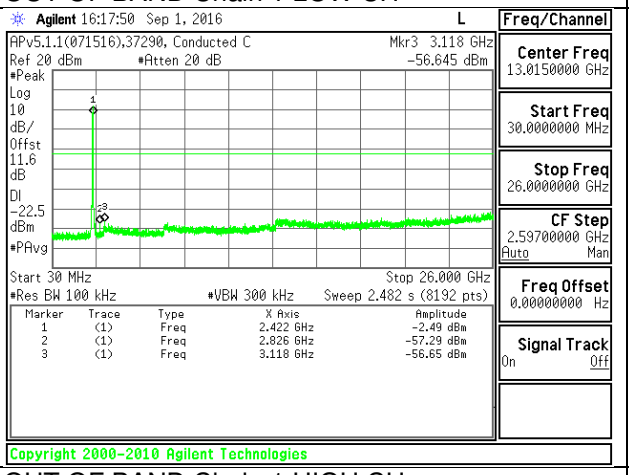
REFERENCE LEVEL Chain 1 MID CH



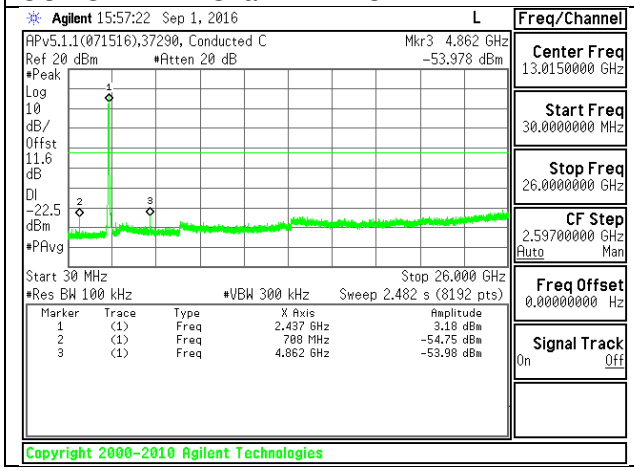
AUTHORIZED BANDEDGE Chain 1 HIGH CH



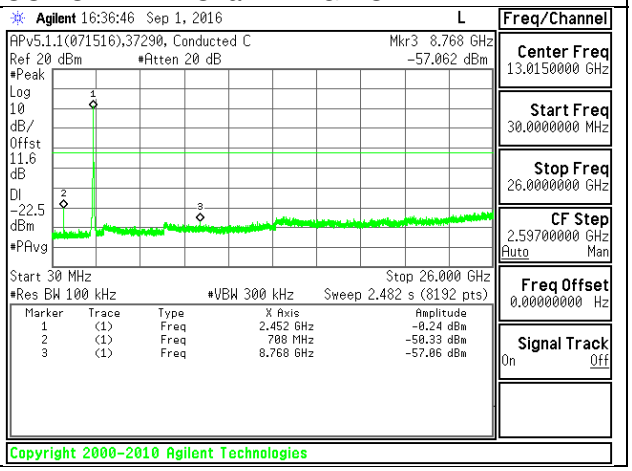
OUT OF BAND Chain 1 LOW CH



OUT OF BAND Chain 1 MID CH



OUT OF BAND Chain 1 HIGH CH



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10. RADIATED TEST RESULTS

10.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-GEN Clause 8.9 and 8.10 (Transmitter)

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300m	2400/F(kHz) @ 300m
0.490-1.705	24000/F(kHz) @ 30m	24000/F(kHz) @ 30m
1.705-30.0	30 @ 30m	30 @ 30m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

NOTE: KDB 937606 OATS and Chamber Correlation Justification

- Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.
- OATs and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1GHz and 150cm for above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

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

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.
Note: The pre-scan measurements above 1GHz the VBW is set to 30 kHz.

The spectrum from 9 kHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

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

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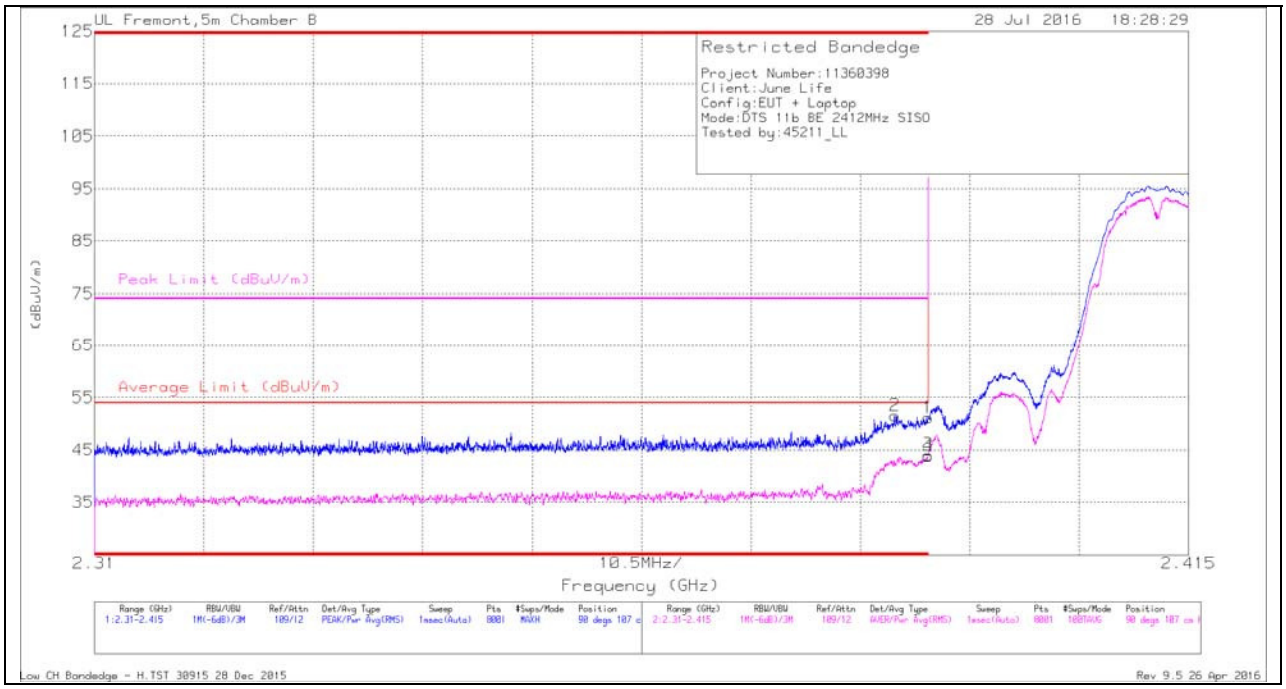
10.2. TRANSMITTER ABOVE 1 GHz

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

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/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	41.81	Pk	32.1	-22.4	0	51.51	-	-	74	-22.49	90	107	H
1	* 2.39	41.39	Pk	32.1	-22.3	0	51.19	-	-	74	-22.81	90	107	H
3	* 2.39	34.22	RMS	32.1	-22.3	0	44.02	54	-9.98	-	-	90	107	H
4	* 2.39	34.03	RMS	32.1	-22.3	0	43.83	54	-10.17	-	-	90	107	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
Pk - Peak detector
RMS - RMS detection

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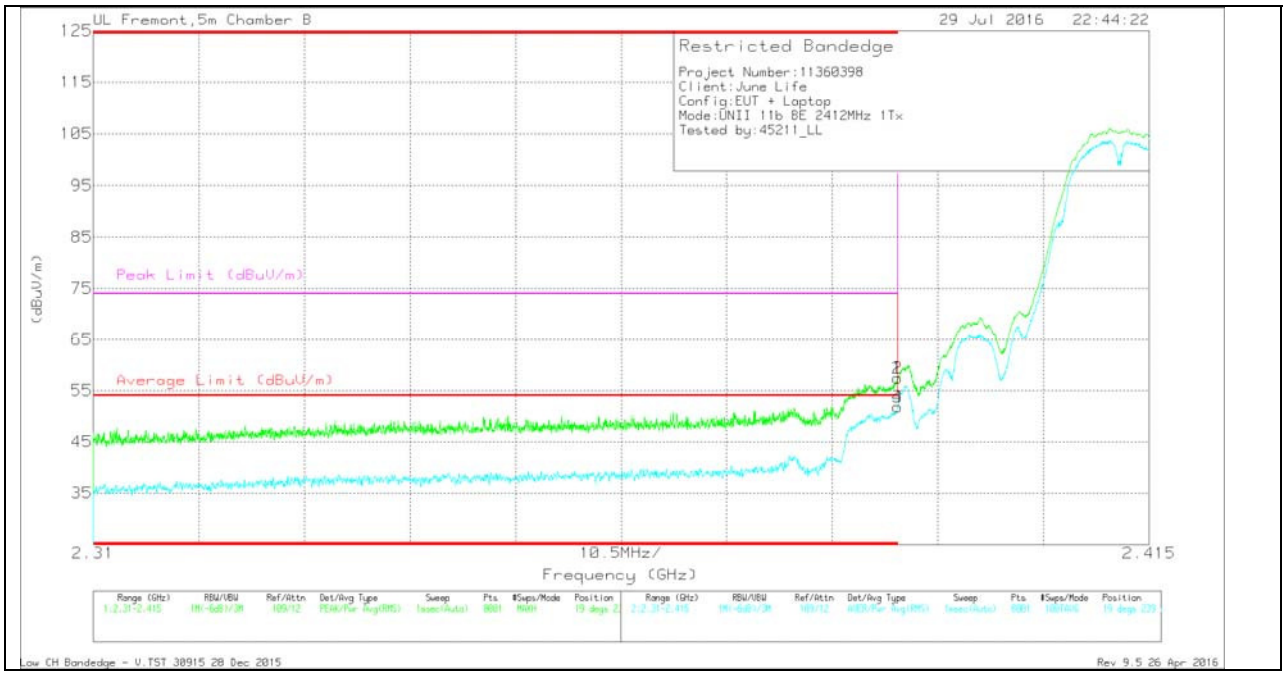
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/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	47.65	Pk	32.1	-22.3	0	57.45	-	-	74	-16.55	19	239	V
2	* 2.39	47.6	Pk	32.1	-22.3	0	57.4	-	-	74	-16.6	19	239	V
3	* 2.39	41.96	RMS	32.1	-22.3	0	51.76	54	-2.24	-	-	19	239	V
4	* 2.39	41.97	RMS	32.1	-22.3	0	51.77	54	-2.23	-	-	19	239	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
Pk - Peak detector
RMS - RMS detection

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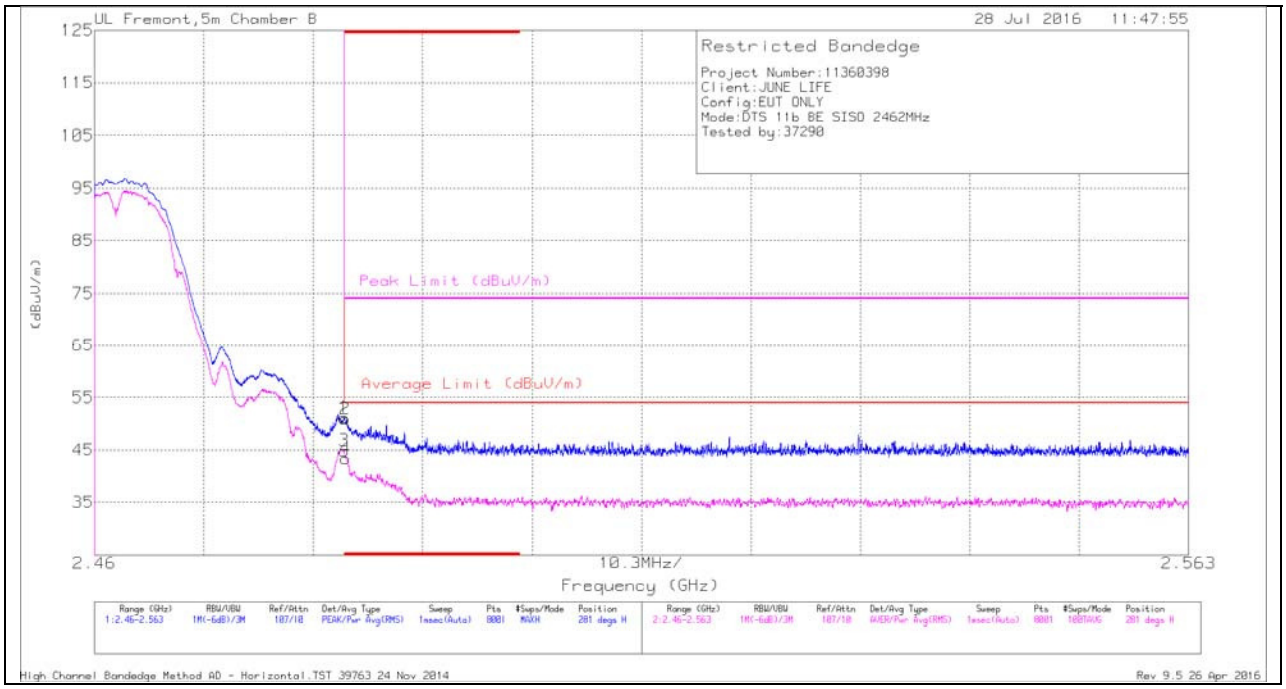
AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.21	Pk	32.3	-22.3	51.21	-	-	74	-22.79	281	108	H
2	* 2.484	40.91	Pk	32.3	-22.3	50.91	-	-	74	-23.09	281	108	H
3	* 2.484	34.8	RMS	32.3	-22.3	44.8	54	-9.2	-	-	281	108	H
4	* 2.484	33.34	RMS	32.3	-22.3	43.34	54	-10.66	-	-	281	108	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
Pk - Peak detector
RMS - RMS detection

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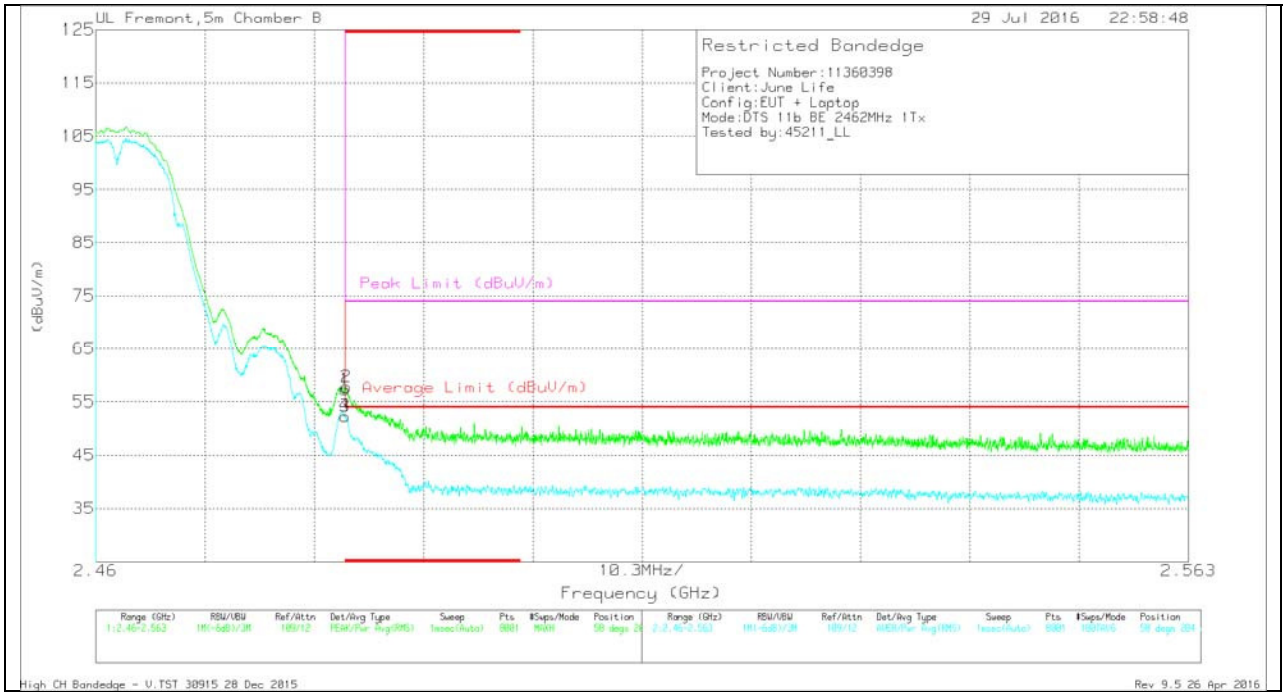
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/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	47.28	Pk	32.3	-22.3	0	57.28	-	-	74	-16.72	58	204	V
2	* 2.484	47.73	Pk	32.3	-22.3	0	57.73	-	-	74	-16.27	58	204	V
3	* 2.484	42.29	RMS	32.3	-22.3	0	52.29	54	-1.71	-	-	58	204	V
4	* 2.484	42.33	RMS	32.3	-22.3	0	52.33	54	-1.67	-	-	58	204	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
Pk - Peak detector
RMS - RMS detection

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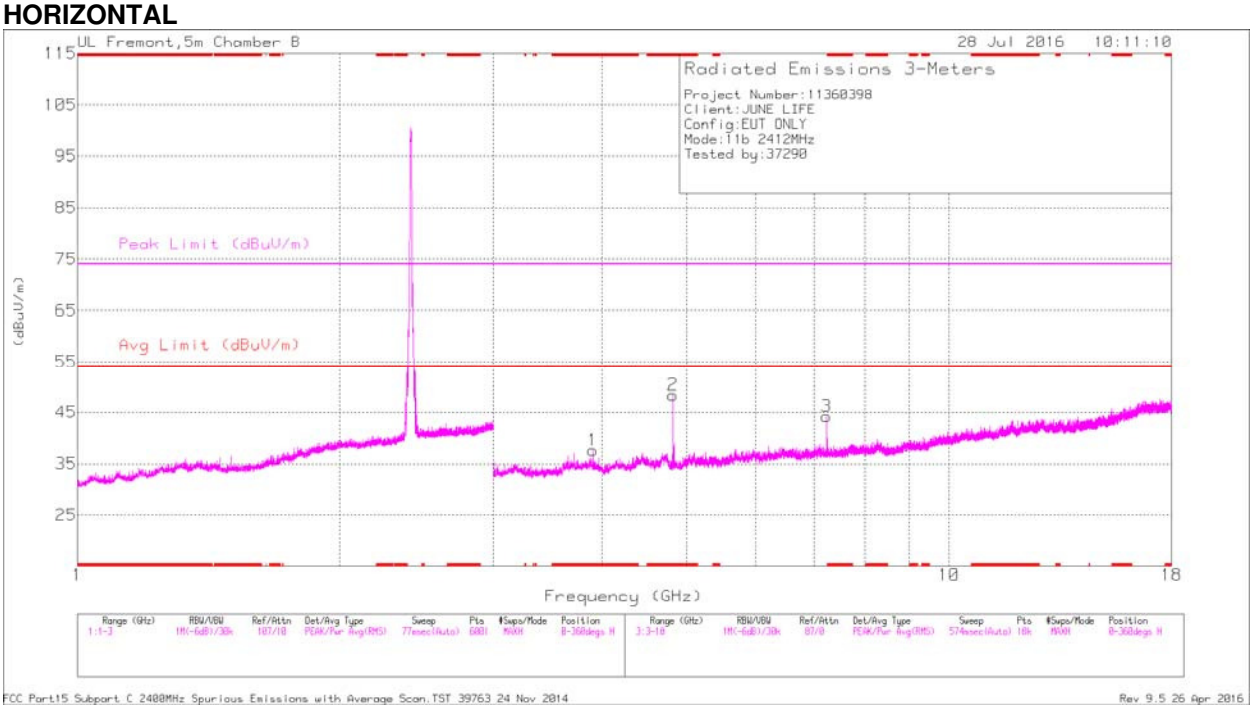
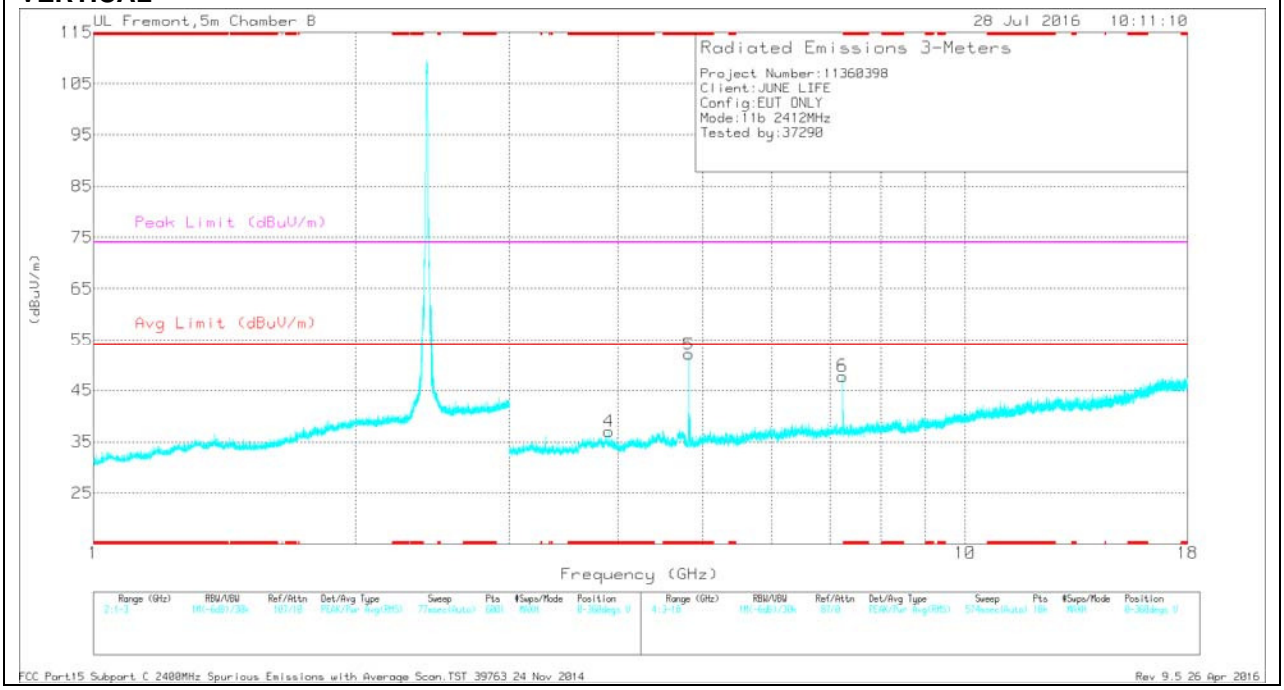
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL

HORIZONTAL



VERTICAL



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LOW CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.899	39.67	PK2	33.3	-31.9	41.07	-	-	74	-32.93	93	106	H
	* 3.901	29.08	MAv1	33.3	-31.9	30.48	54	-23.52	-	-	93	106	H
2	* 4.824	48.99	PK2	33.8	-31.8	50.99	-	-	74	-23.01	276	106	H
	* 4.824	46.43	MAv1	33.8	-31.8	48.43	54	-5.57	-	-	276	106	H
4	* 3.901	39.82	PK2	33.3	-31.9	41.22	-	-	74	-32.78	284	102	V
	* 3.901	29.17	MAv1	33.3	-31.9	30.57	54	-23.43	-	-	284	102	V
5	* 4.824	51.23	PK2	33.8	-31.8	53.23	-	-	74	-20.77	186	202	V
	* 4.824	49.84	MAv1	33.8	-31.8	51.84	54	-2.16	-	-	186	202	V
3	7.235	37.43	PK2	35.6	-30	43.03	-	-	74	-30.97	276	199	H
6	7.237	42.61	PK2	35.6	-30.1	48.11	-	-	74	-25.89	186	201	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

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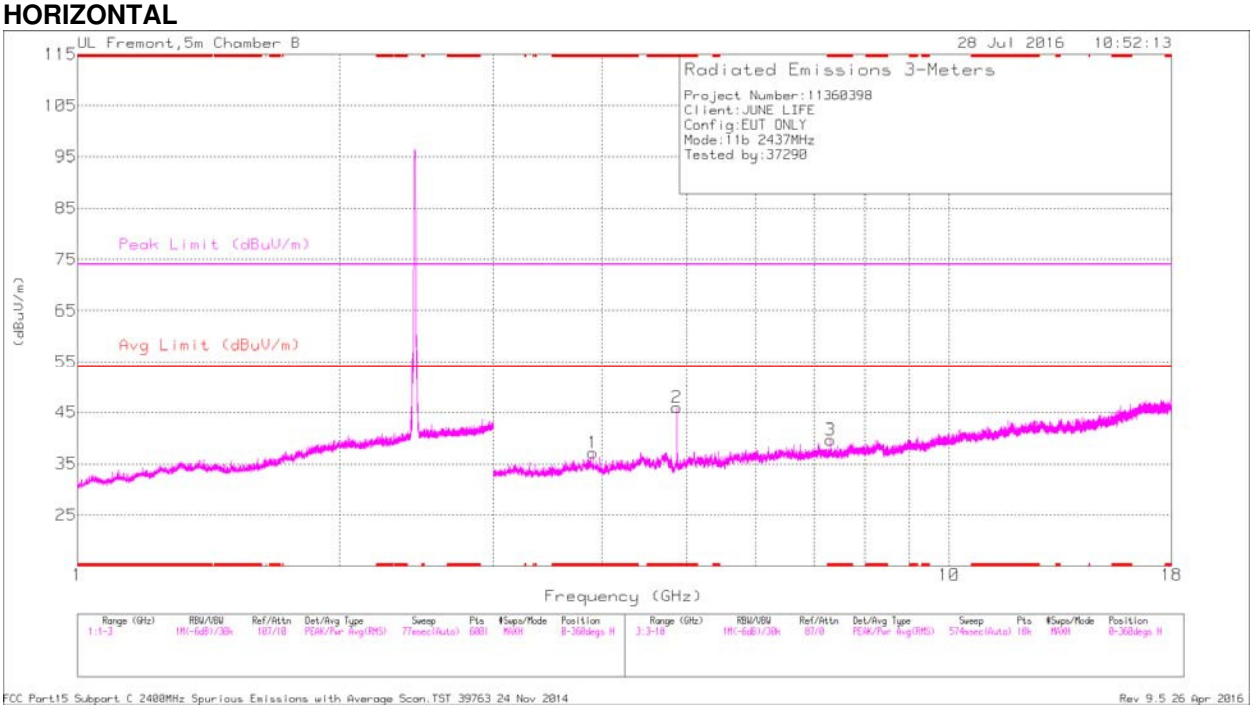
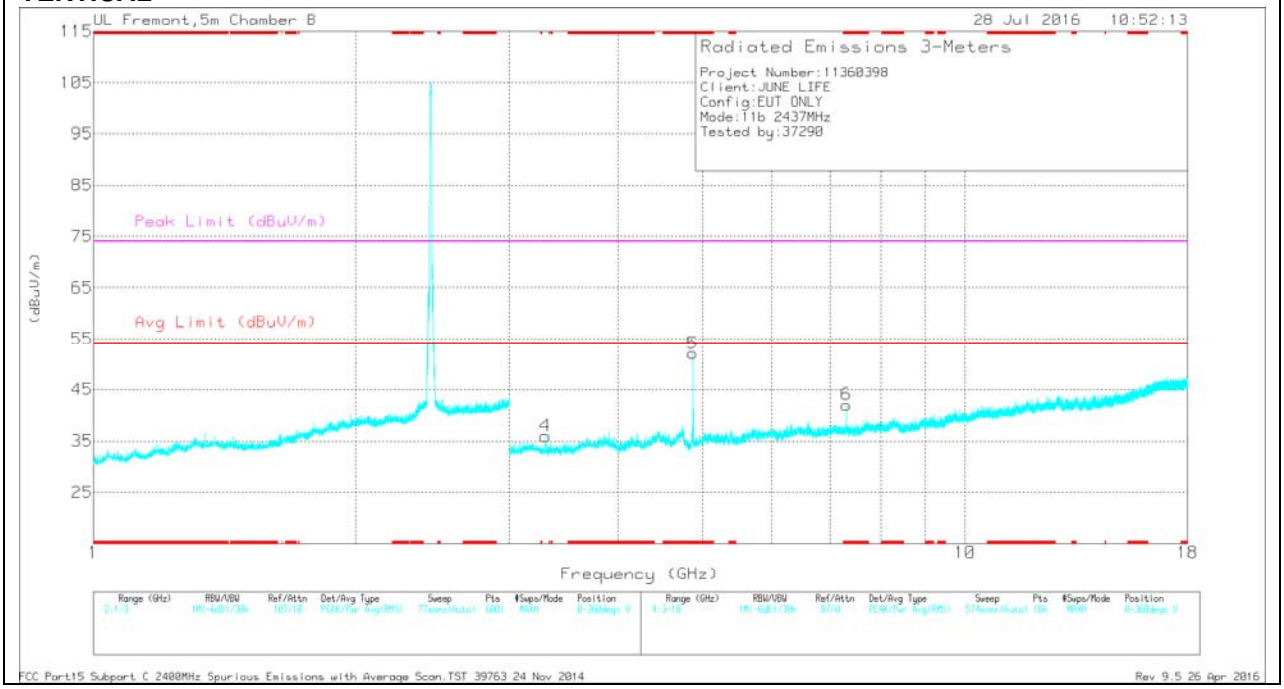
MID CHANNEL

HORIZONTAL



VERTICAL



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MID CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.898	39.8	PK2	33.3	-31.8	41.3	-	-	74	-32.7	228	170	H
	* 3.9	29.01	MAv1	33.3	-31.9	30.41	54	-23.59	-	-	228	170	H
2	* 4.874	48.08	PK2	33.8	-32.7	49.18	-	-	74	-24.82	273	125	H
	* 4.874	44.92	MAv1	33.8	-32.7	46.02	54	-7.98	-	-	273	125	H
3	* 7.311	40.26	PK2	35.6	-30.5	45.36	-	-	74	-28.64	180	189	H
	* 7.312	32.79	MAv1	35.6	-30.5	37.89	54	-16.11	-	-	180	189	H
5	* 4.874	52.43	PK2	33.8	-32.7	53.53	-	-	74	-20.47	188	199	V
	* 4.874	50.42	MAv1	33.8	-32.7	51.52	54	-2.48	-	-	188	199	V
6	* 7.311	42.83	PK2	35.6	-30.5	47.93	-	-	74	-26.07	175	202	V
	* 7.312	35.82	MAv1	35.6	-30.5	40.92	54	-13.08	-	-	175	202	V
4	3.301	41.21	PK2	32.5	-32.8	40.91	-	-	74	-33.09	10	108	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

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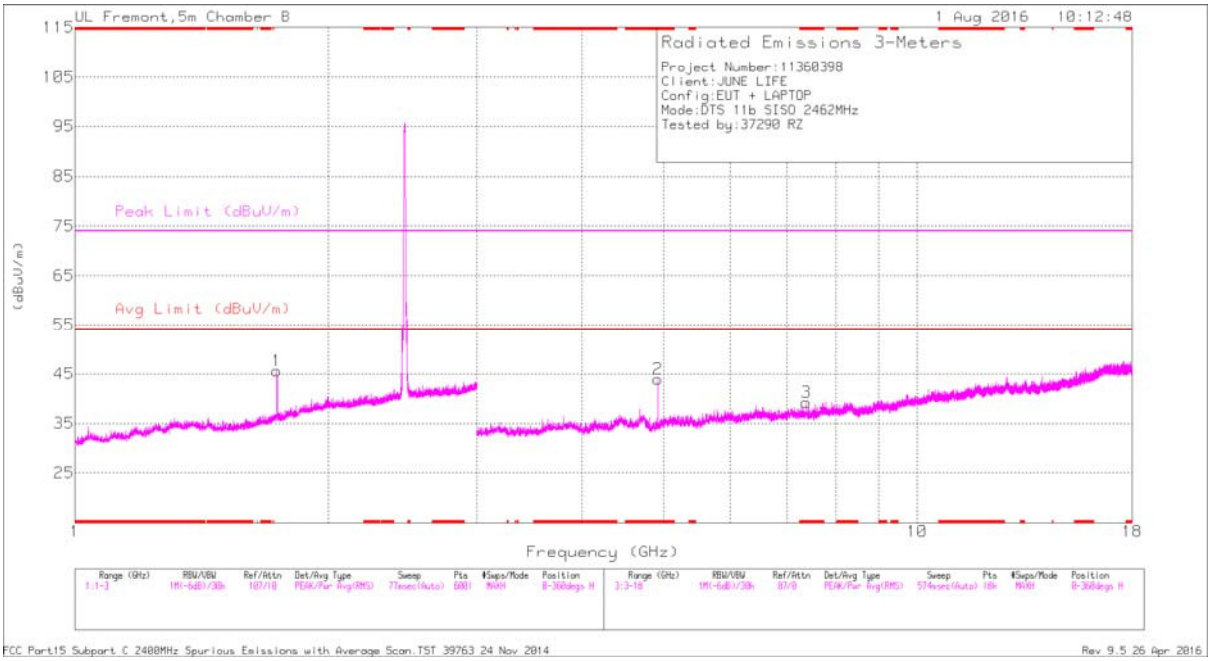
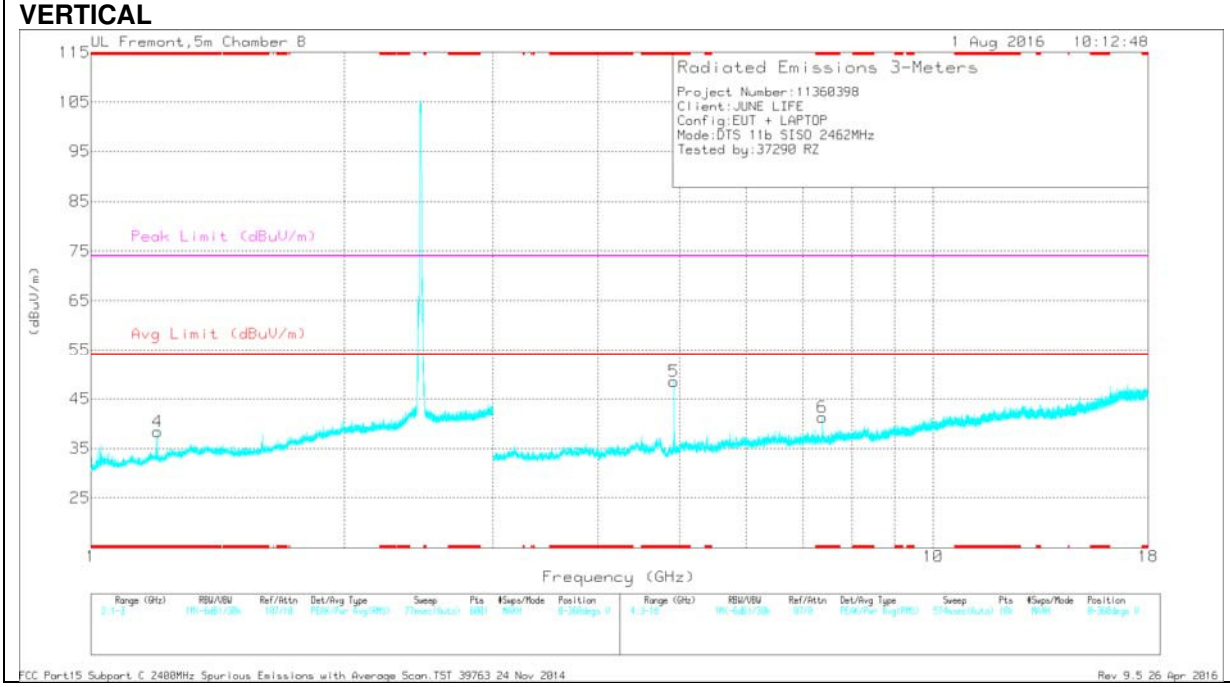
HIGH CHANNEL

HORIZONTAL



VERTICAL



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HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.2	42.01	PK2	28.3	-23.5	46.81	-	-	74	-27.19	252	260	V
	* 1.198	24.86	MAv1	28.3	-23.5	29.66	54	-24.34	-	-	252	260	V
2	* 4.924	45.95	PK2	33.9	-32.9	46.95	-	-	74	-27.05	280	193	H
	* 4.924	42.03	MAv1	33.9	-32.9	43.03	54	-10.97	-	-	280	193	H
3	* 7.386	40.19	PK2	35.6	-29.6	46.19	-	-	74	-27.81	179	176	H
	* 7.385	32.13	MAv1	35.6	-29.6	38.13	54	-15.87	-	-	179	176	H
5	* 4.924	50.16	PK2	33.9	-32.9	51.16	-	-	74	-22.84	157	108	V
	* 4.924	47.53	MAv1	33.9	-32.9	48.53	54	-5.47	-	-	157	108	V
6	* 7.386	41.11	PK2	35.6	-29.6	47.11	-	-	74	-26.89	178	153	V
	* 7.385	34.79	MAv1	35.6	-29.6	40.79	54	-13.21	-	-	178	153	V
1	1.74	35.44	PK2	29.5	-22.1	42.84	-	-	74	-31.16	25	109	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

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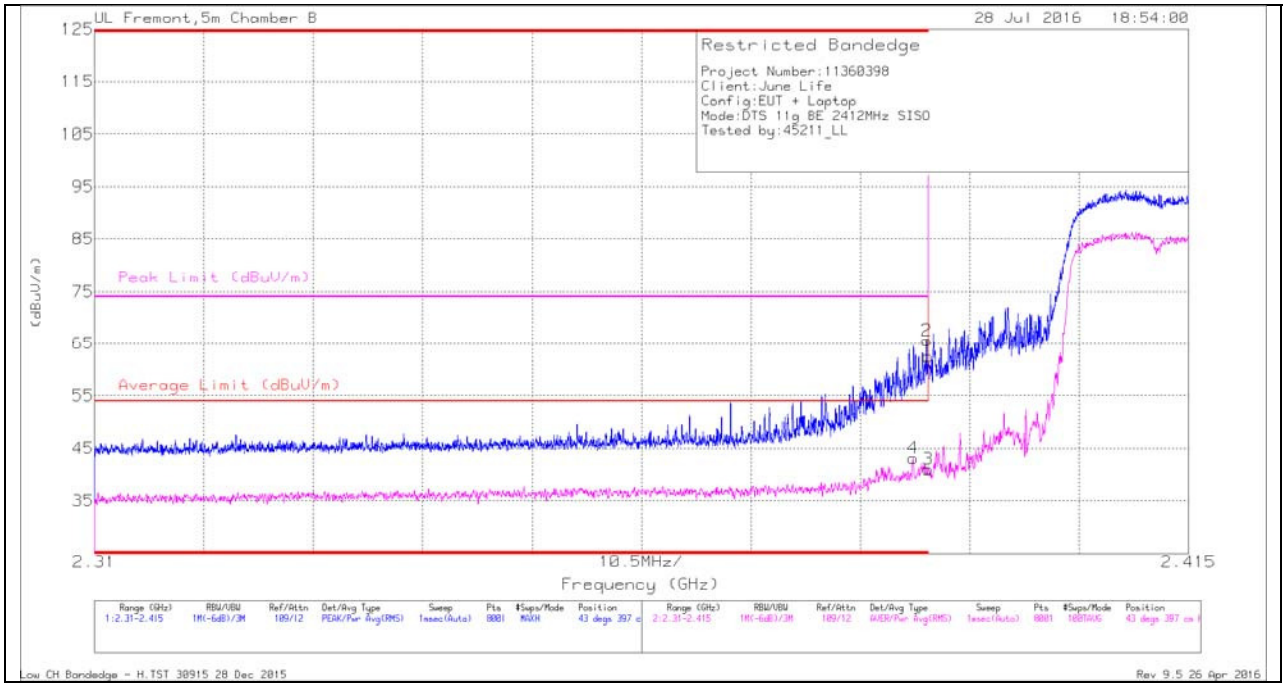
10.2.2. TX ABOVE 1 GHz 802.11g MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/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
4	* 2.389	33.11	RMS	32.1	-22.3	.19	43.1	54	-10.9	-	-	43	397	H
1	* 2.39	52.7	Pk	32.1	-22.3	0	62.5	-	-	74	-11.5	43	397	H
2	* 2.39	55.74	Pk	32.1	-22.3	0	65.54	-	-	74	-8.46	43	397	H
3	* 2.39	31.01	RMS	32.1	-22.3	.19	41	54	-13	-	-	43	397	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
Pk - Peak detector
RMS - RMS detection

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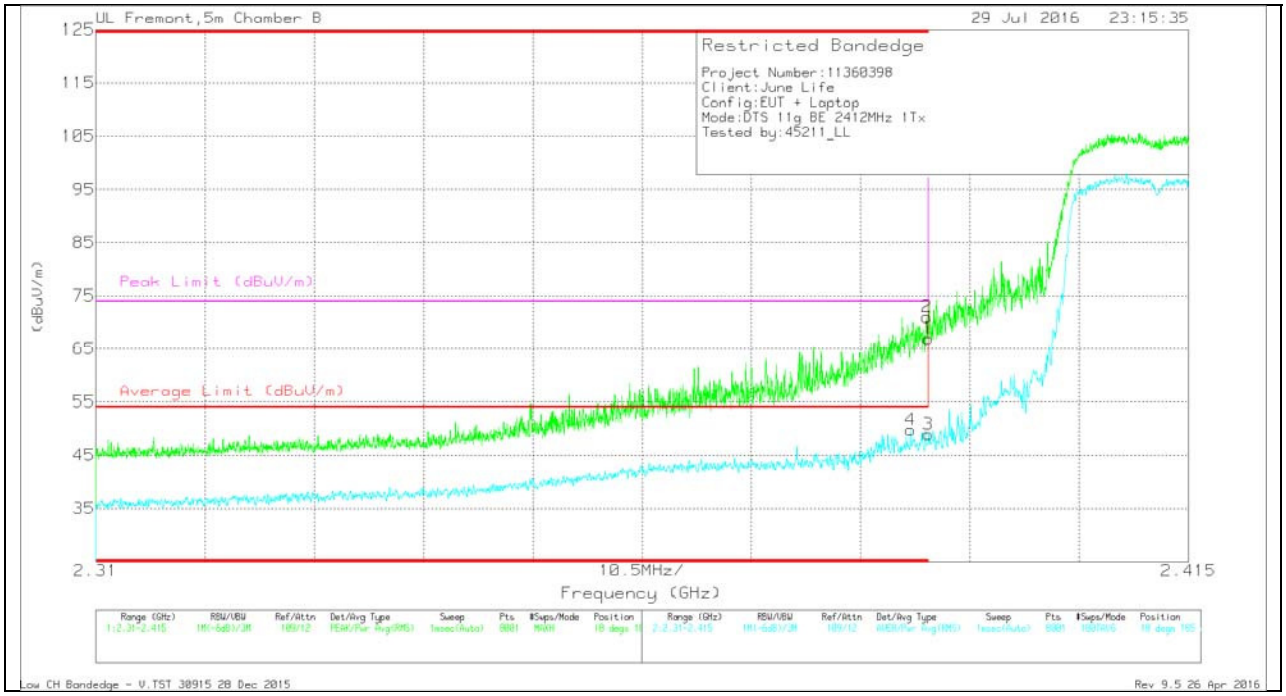
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/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
4	* 2.388	39.8	RMS	32.1	-22.4	.19	49.69	54	-4.31	-	-	18	185	V
1	* 2.39	57.2	Pk	32.1	-22.3	0	67	-	-	74	-7	18	185	V
2	* 2.39	61.25	Pk	32.1	-22.3	0	71.05	-	-	74	-2.95	18	185	V
3	* 2.39	38.88	RMS	32.1	-22.3	.19	48.87	54	-5.13	-	-	18	185	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
Pk - Peak detector
RMS - RMS detection

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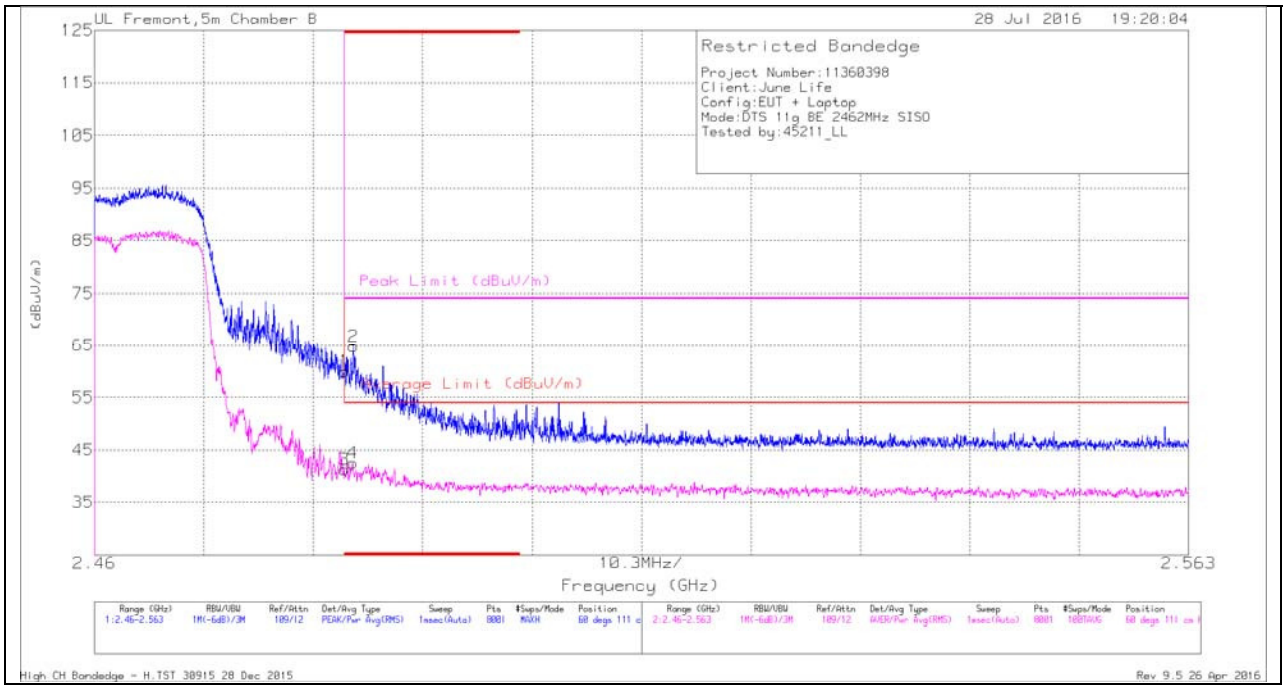
AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/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	50.03	Pk	32.3	-22.3	0	60.03	-	-	74	-13.97	60	111	H
2	* 2.484	54.8	Pk	32.3	-22.3	0	64.8	-	-	74	-9.2	60	111	H
3	* 2.484	31.07	RMS	32.3	-22.3	.19	41.26	54	-12.74	-	-	60	111	H
4	* 2.484	32.32	RMS	32.3	-22.3	.19	42.51	54	-11.49	-	-	60	111	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
Pk - Peak detector
RMS - RMS detection

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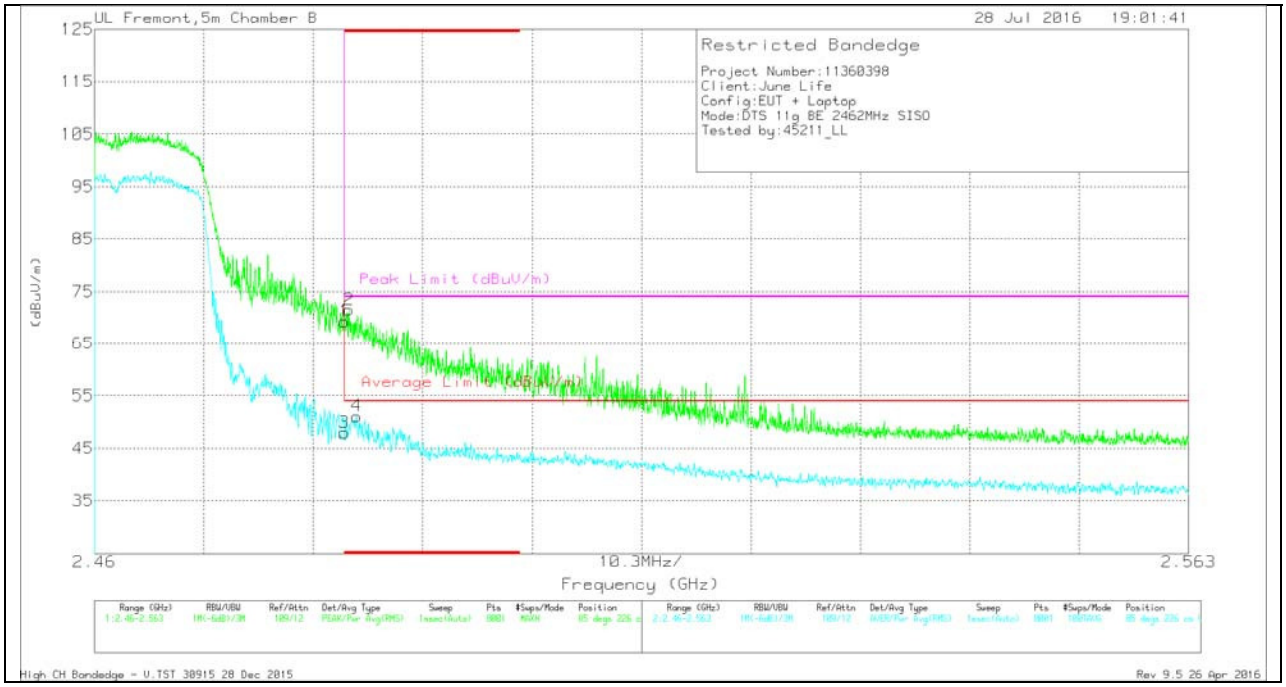
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/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	59.32	Pk	32.3	-22.3	0	69.32	-	-	74	-4.68	85	226	V
2	* 2.484	61.53	Pk	32.3	-22.3	0	71.53	-	-	74	-2.47	85	226	V
3	* 2.484	37.76	RMS	32.3	-22.3	.19	47.95	54	-6.05	-	-	85	226	V
4	* 2.485	40.91	RMS	32.3	-22.3	.19	51.1	54	-2.9	-	-	85	226	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
Pk - Peak detector
RMS - RMS detection

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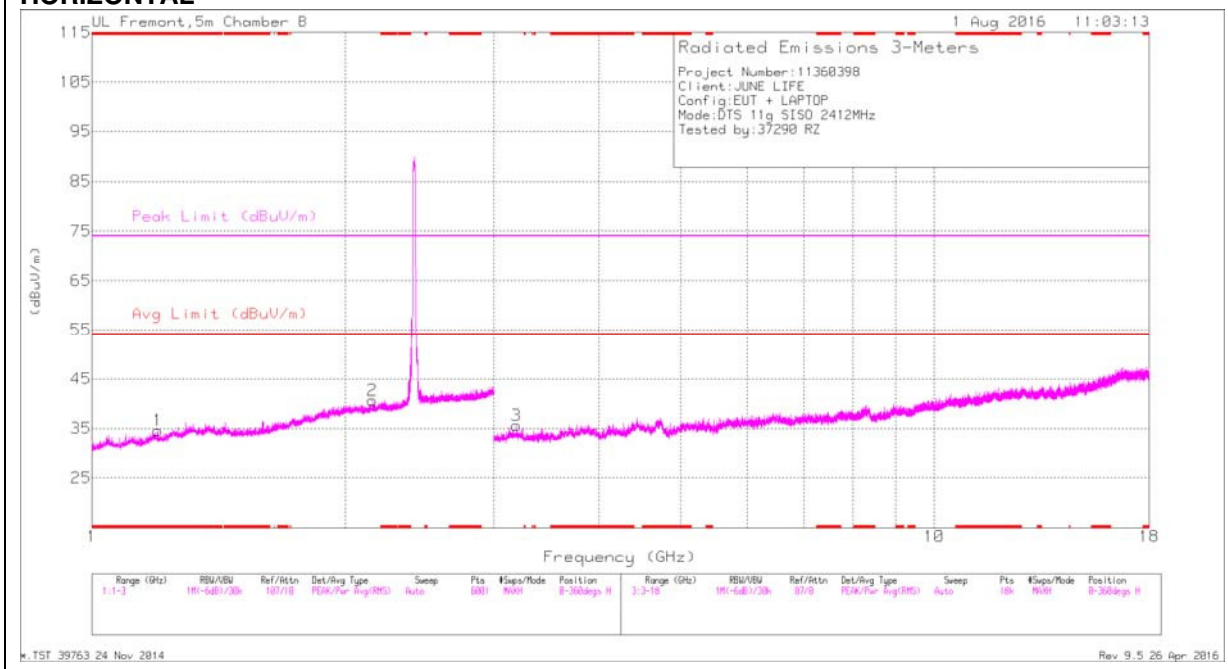
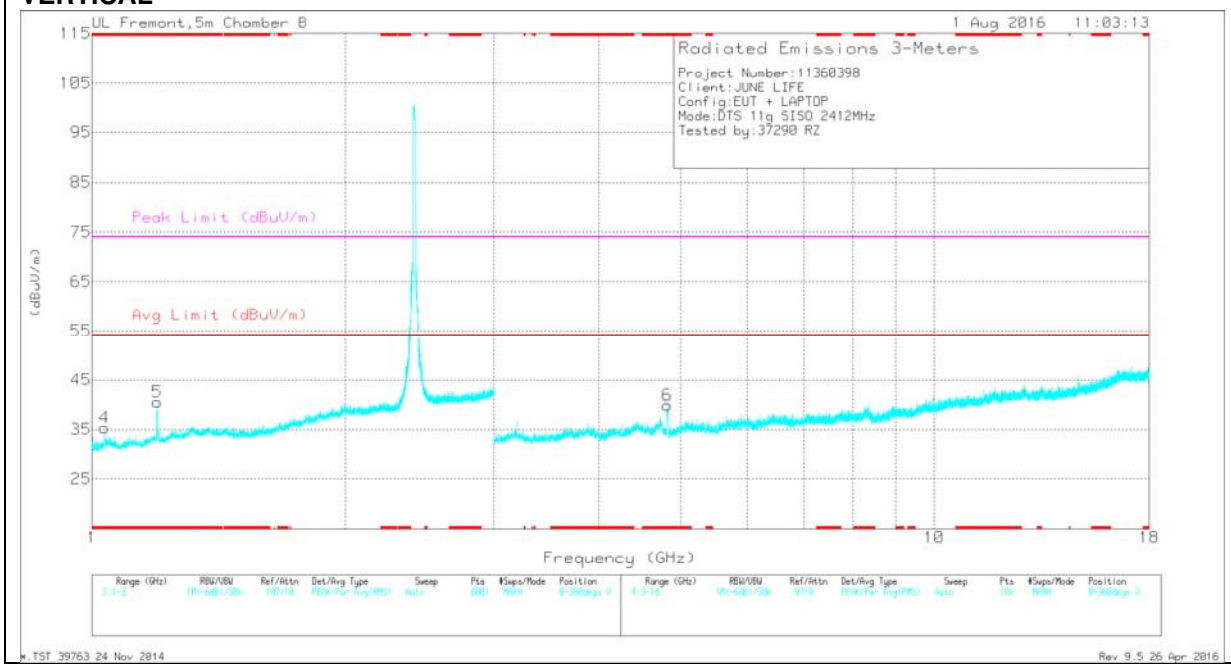
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL

HORIZONTAL



VERTICAL



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LOW CHANNEL DATA

Trace Markers

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)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.197	40.93	PK2	28.3	-23.4	0	45.83	-	-	74	-28.17	340	302	H
	* 1.198	24.19	MAv1	28.3	-23.5	.19	29.18	54	-24.82	-	-	340	302	H
4	* 1.035	39.09	PK2	27.8	-24.5	0	42.39	-	-	74	-31.61	14	289	V
	* 1.035	24.62	MAv1	27.8	-24.4	.19	28.21	54	-25.79	-	-	14	289	V
5	* 1.195	40.97	PK2	28.3	-23.5	0	45.77	-	-	74	-28.23	267	217	V
	* 1.197	24.47	MAv1	28.3	-23.4	.19	29.56	54	-24.44	-	-	267	217	V
6	* 4.823	46.33	PK2	33.8	-31.8	0	48.33	-	-	74	-25.67	184	200	V
	* 4.823	35.62	MAv1	33.8	-31.8	.19	37.81	54	-16.19	-	-	184	200	V
2	2.155	35.48	PK2	31.5	-22.2	0	44.78	-	-	74	-29.22	151	349	H
3	3.193	40.81	PK2	33	-32.2	0	41.61	-	-	74	-32.39	109	241	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

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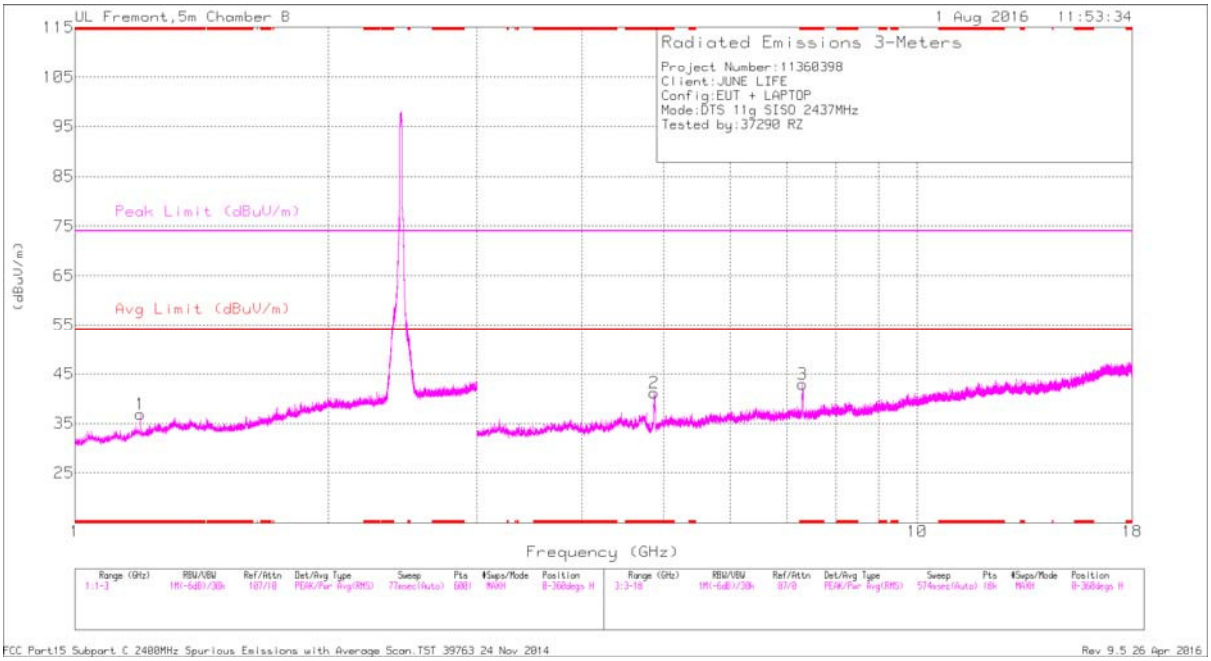
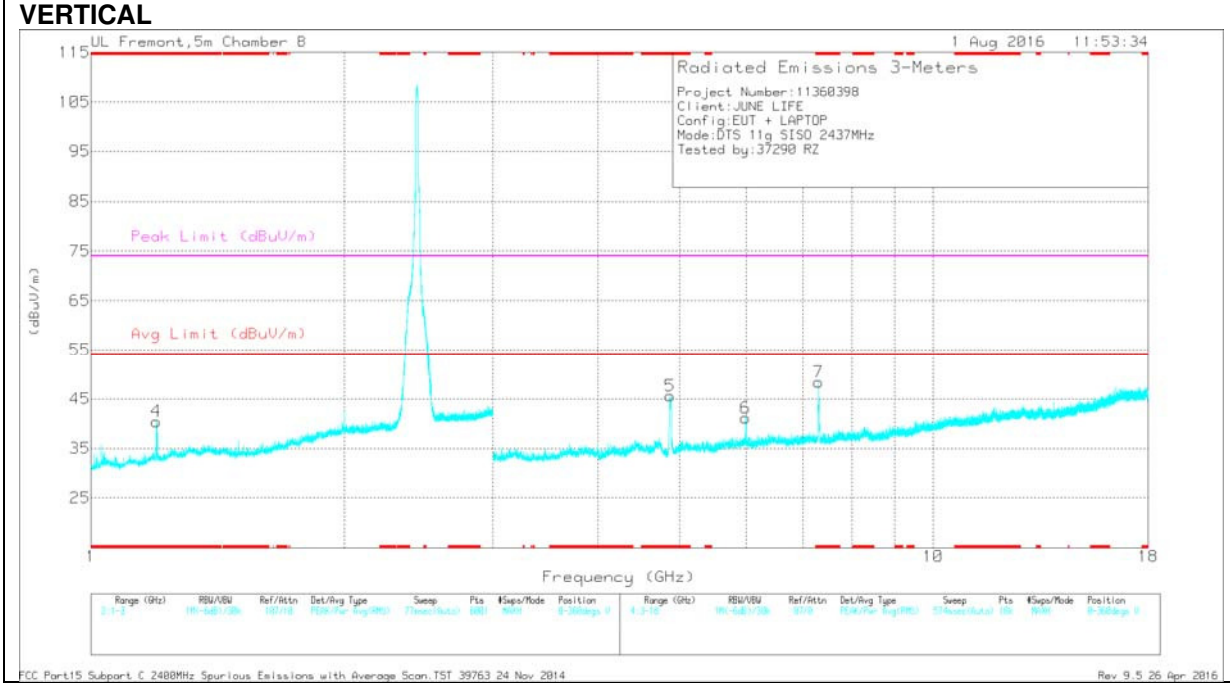
MID CHANNEL

HORIZONTAL



VERTICAL



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MID CHANNEL DATA

Trace Markers

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)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.198	36.59	PK2	28.3	-23.5	0	41.39	-	-	74	-32.61	129	399	H
	* 1.185	24.28	MAv1	28.3	-23.5	.19	29.27	54	-24.73	-	-	129	399	H
4	* 1.197	41.47	PK2	28.3	-23.4	0	46.37	-	-	74	-27.63	272	161	V
	* 1.195	24.43	MAv1	28.3	-23.4	.19	29.52	54	-24.48	-	-	272	161	V
2	* 4.874	48.93	PK2	33.8	-32.7	0	50.03	-	-	74	-23.97	277	174	H
	* 4.873	37.11	MAv1	33.8	-32.7	.19	38.4	54	-15.6	-	-	277	174	H
3	* 7.31	47.52	PK2	35.6	-30.5	0	52.62	-	-	74	-21.38	181	286	H
	* 7.311	36.36	MAv1	35.6	-30.5	.19	41.65	54	-12.35	-	-	181	286	H
5	* 4.877	51.06	PK2	33.8	-32.7	0	52.16	-	-	74	-21.84	155	202	V
	* 4.872	40.95	MAv1	33.8	-32.6	.19	42.34	54	-11.66	-	-	155	202	V
7	* 7.307	49.86	PK2	35.6	-30.5	0	54.96	-	-	74	-19.04	179	182	V
	* 7.31	39.81	MAv1	35.6	-30.5	.19	45.1	54	-8.9	-	-	179	182	V
6	5.99	39.74	PK2	35.2	-31.1	0	43.84	-	-	74	-30.16	34	161	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

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47173 BENICIA STREET, FREMONT, CA 94538, USA TEL: (510) 771-1000 FAX: (510) 661-0888
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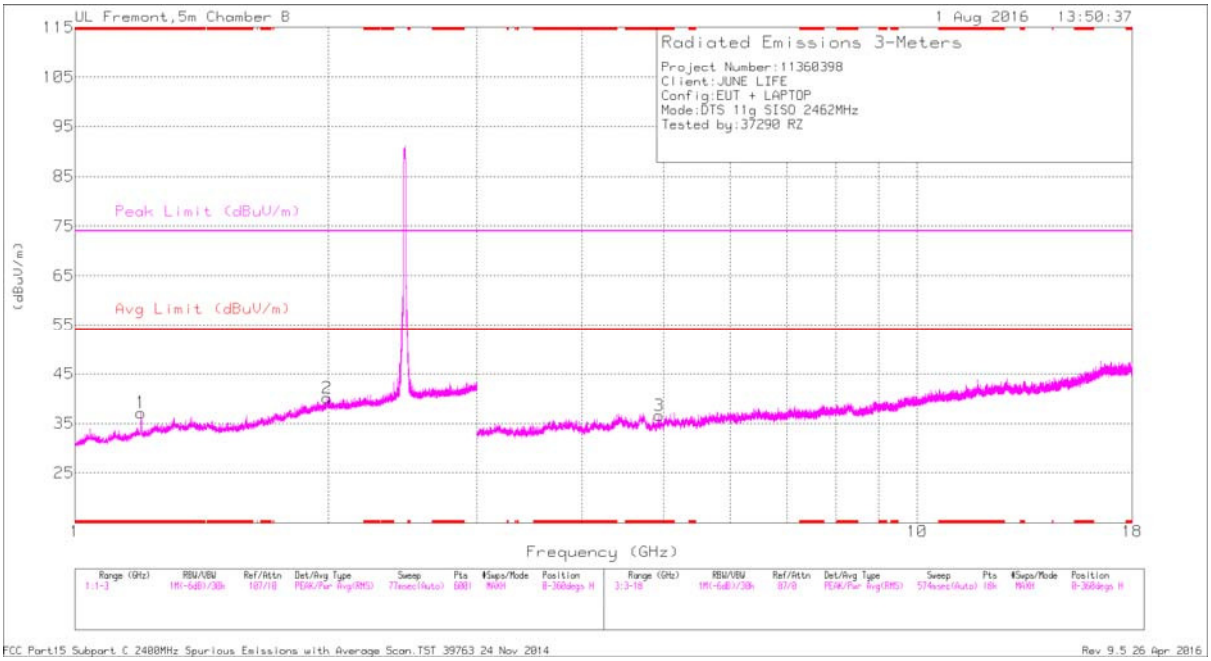
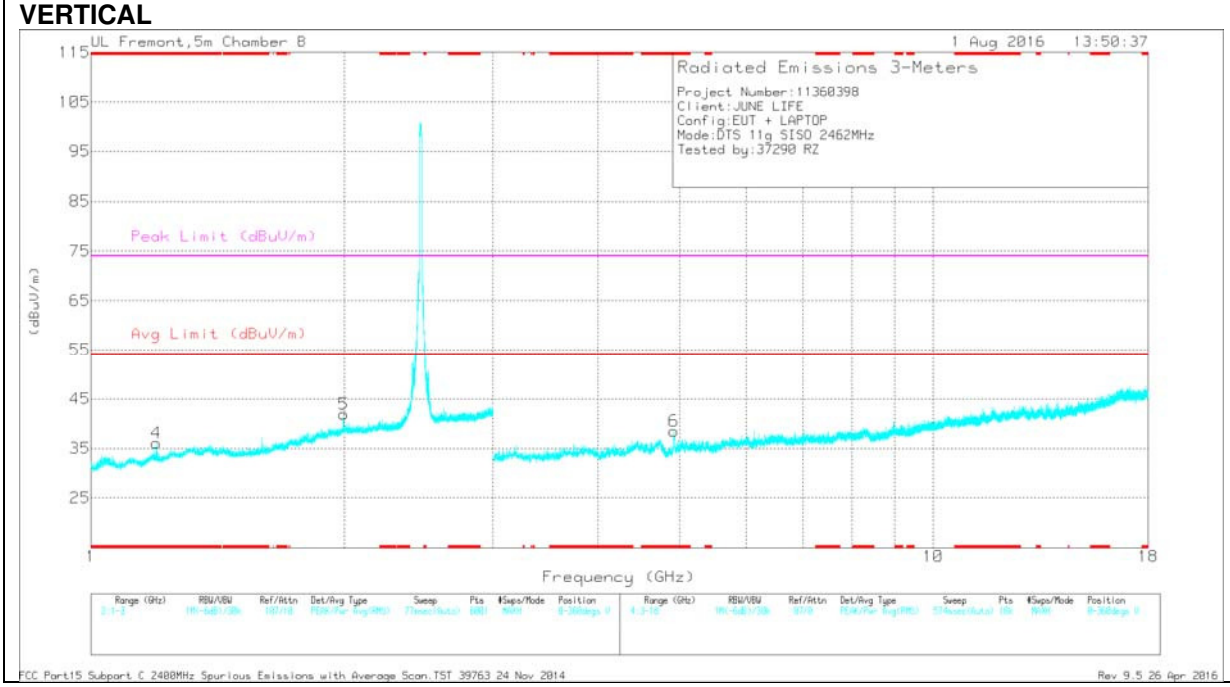
HIGH CHANNEL

HORIZONTAL



VERTICAL



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HIGH CHANNEL DATA

Trace Markers

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)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.196	40.41	PK2	28.3	-23.4	0	45.31	-	-	74	-28.69	343	335	H
	* 1.188	24.5	MAv1	28.3	-23.6	.19	29.39	54	-24.61	-	-	343	335	H
4	* 1.197	41.69	PK2	28.3	-23.4	0	46.59	-	-	74	-27.41	268	206	V
	* 1.196	24.56	MAv1	28.3	-23.4	.19	29.65	54	-24.35	-	-	268	206	V
3	* 4.94	39.22	PK2	33.9	-32.7	0	40.42	-	-	74	-33.58	0	211	H
	* 4.938	29	MAv1	33.9	-32.7	.19	30.39	54	-23.61	-	-	0	211	H
6	* 4.919	45.52	PK2	33.9	-32.9	0	46.52	-	-	74	-27.48	205	210	V
	* 4.922	33.84	MAv1	33.9	-32.9	.19	35.03	54	-18.97	-	-	205	210	V
2	1.992	41.64	PK2	31.5	-22.1	0	51.04	-	-	74	-22.96	253	169	H
5	1.993	38.98	PK2	31.5	-22.1	0	48.38	-	-	74	-25.62	339	174	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

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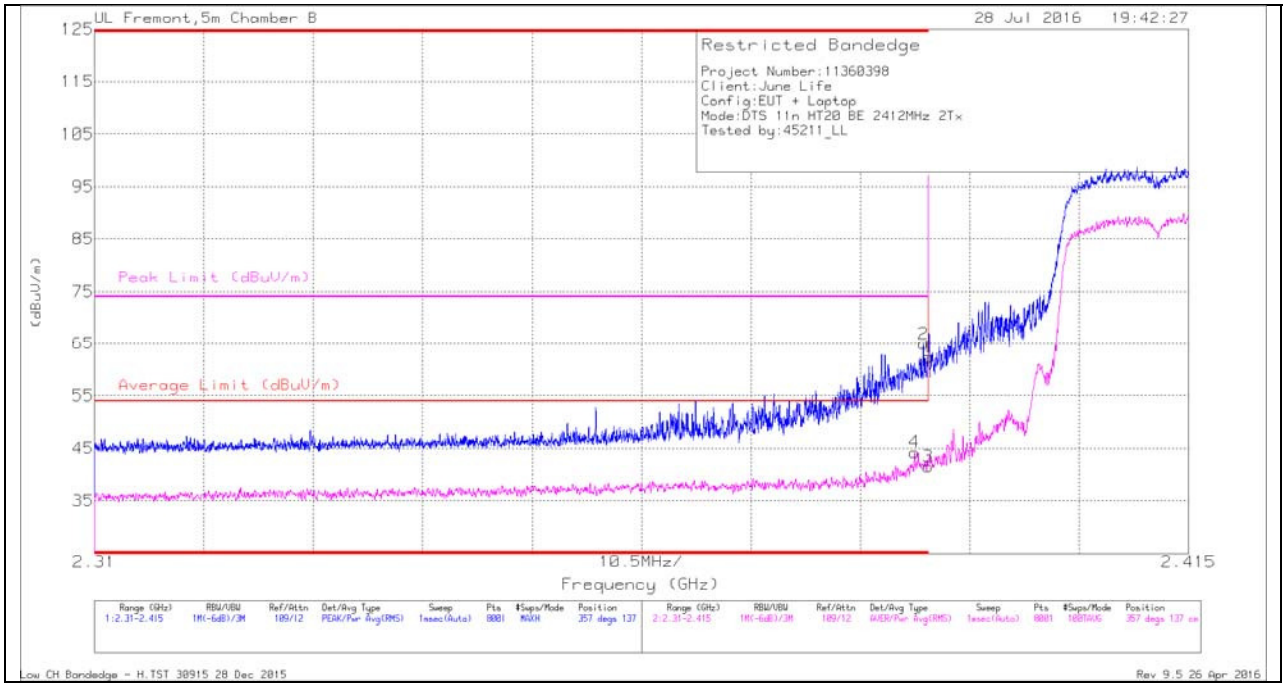
10.2.3. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/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
4	* 2.389	34.04	RMS	32.1	-22.3	.42	44.26	54	-9.74	-	-	357	137	H
1	* 2.39	52.49	Pk	32.1	-22.3	0	62.29	-	-	74	-11.71	357	137	H
2	* 2.39	55.18	Pk	32.1	-22.3	0	64.98	-	-	74	-9.02	357	137	H
3	* 2.39	31.31	RMS	32.1	-22.3	.42	41.53	54	-12.47	-	-	357	137	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
Pk - Peak detector
RMS - RMS detection

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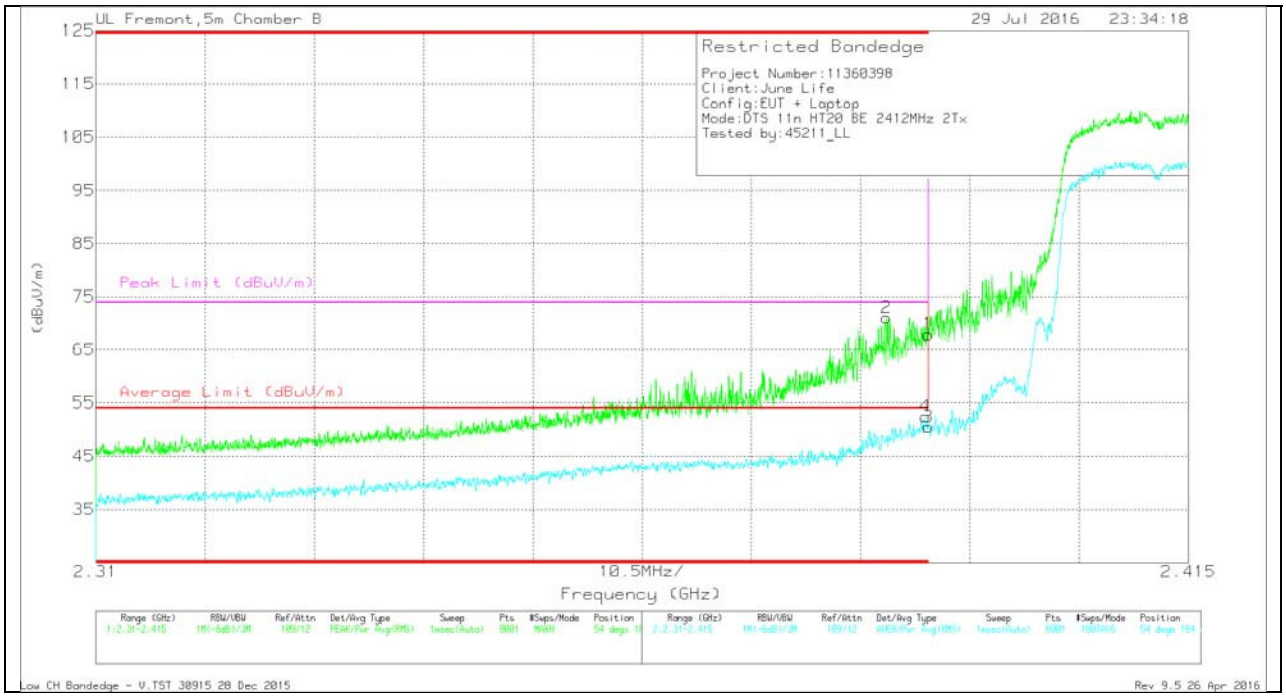
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/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	* 2.386	61.38	Pk	32.1	-22.4	0	71.08	-	-	74	-2.92	54	184	V
1	* 2.39	58.2	Pk	32.1	-22.3	0	68	-	-	74	-6	54	184	V
3	* 2.39	40.23	RMS	32.1	-22.3	.42	50.45	54	-3.55	-	-	54	184	V
4	* 2.39	42.16	RMS	32.1	-22.3	.42	52.38	54	-1.62	-	-	54	184	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
Pk - Peak detector
RMS - RMS detection

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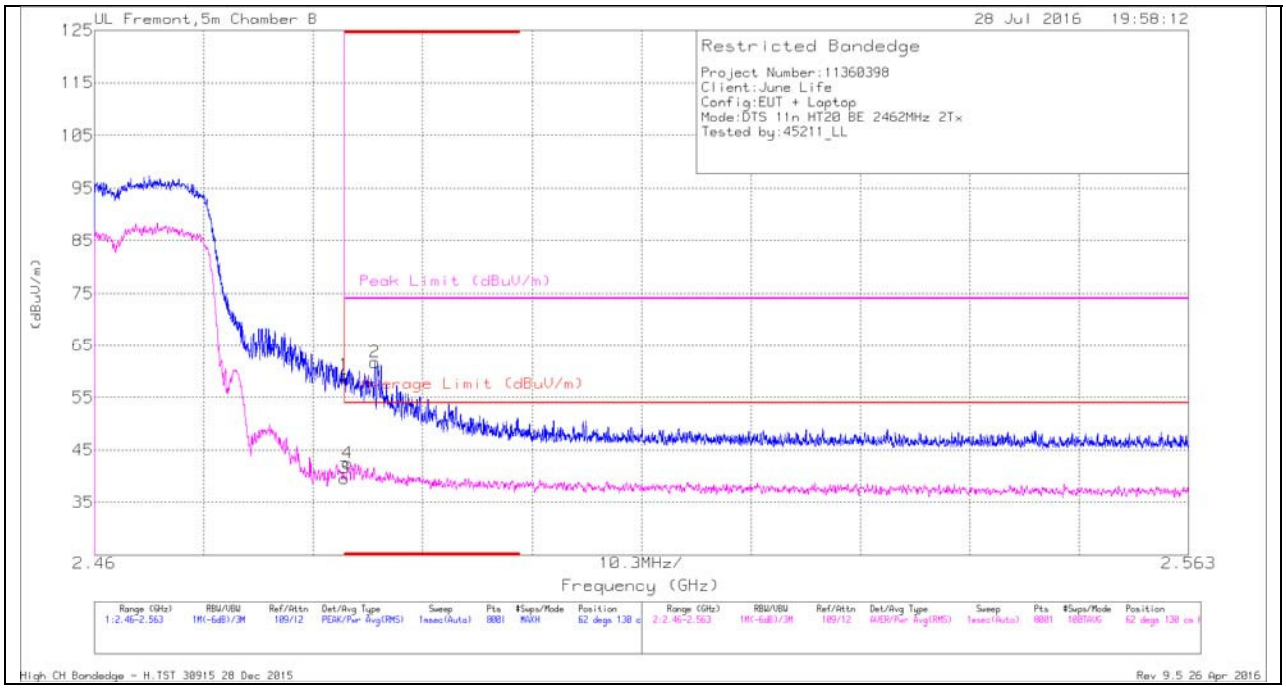
AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/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	49.19	Pk	32.3	-22.3	0	59.19	-	-	74	-14.81	62	130	H
3	* 2.484	29.15	RMS	32.3	-22.3	.42	39.57	54	-14.43	-	-	62	130	H
4	* 2.484	32.03	RMS	32.3	-22.3	.42	42.45	54	-11.55	-	-	62	130	H
2	* 2.486	51.75	Pk	32.3	-22.3	0	61.75	-	-	74	-12.25	62	130	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
Pk - Peak detector
RMS - RMS detection

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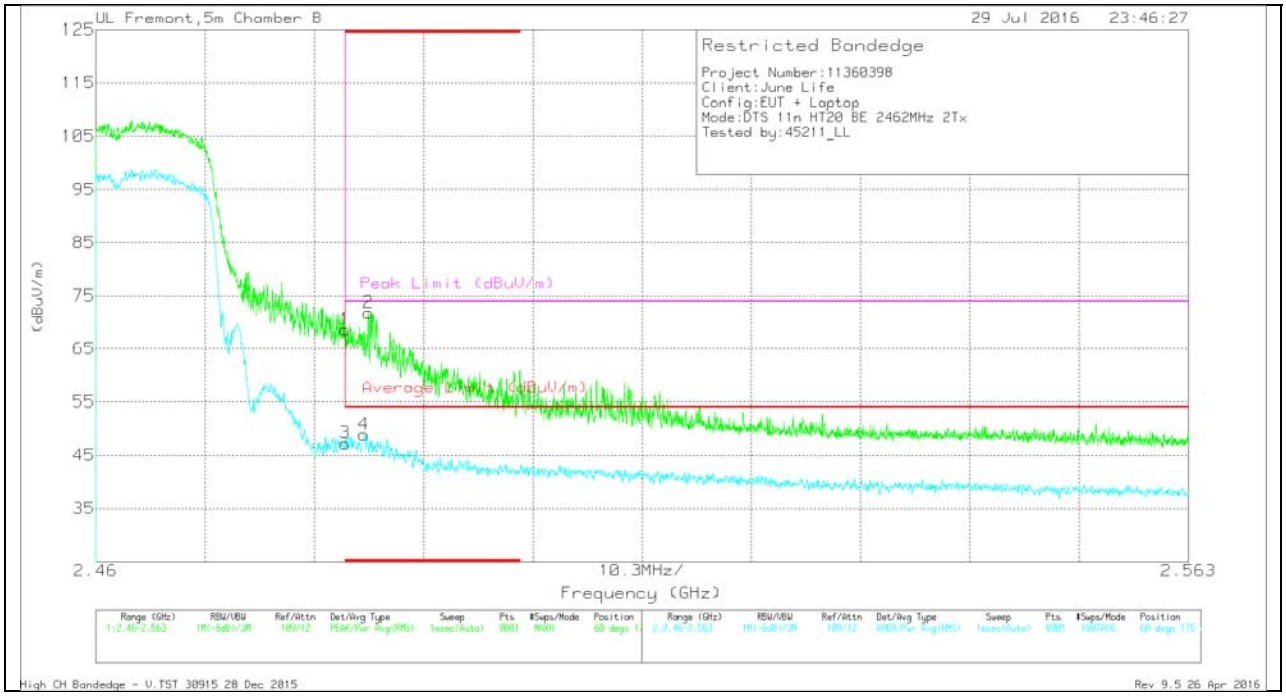
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/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	58.67	Pk	32.3	-22.3	0	68.67	-	-	74	-5.33	60	175	V
3	* 2.484	36.79	RMS	32.3	-22.3	.42	47.21	54	-6.79	-	-	60	175	V
4	* 2.485	38.3	RMS	32.3	-22.2	.42	48.82	54	-5.18	-	-	60	175	V
2	* 2.486	61.88	Pk	32.3	-22.3	0	71.88	-	-	74	-2.12	60	175	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
Pk - Peak detector
RMS - RMS detection

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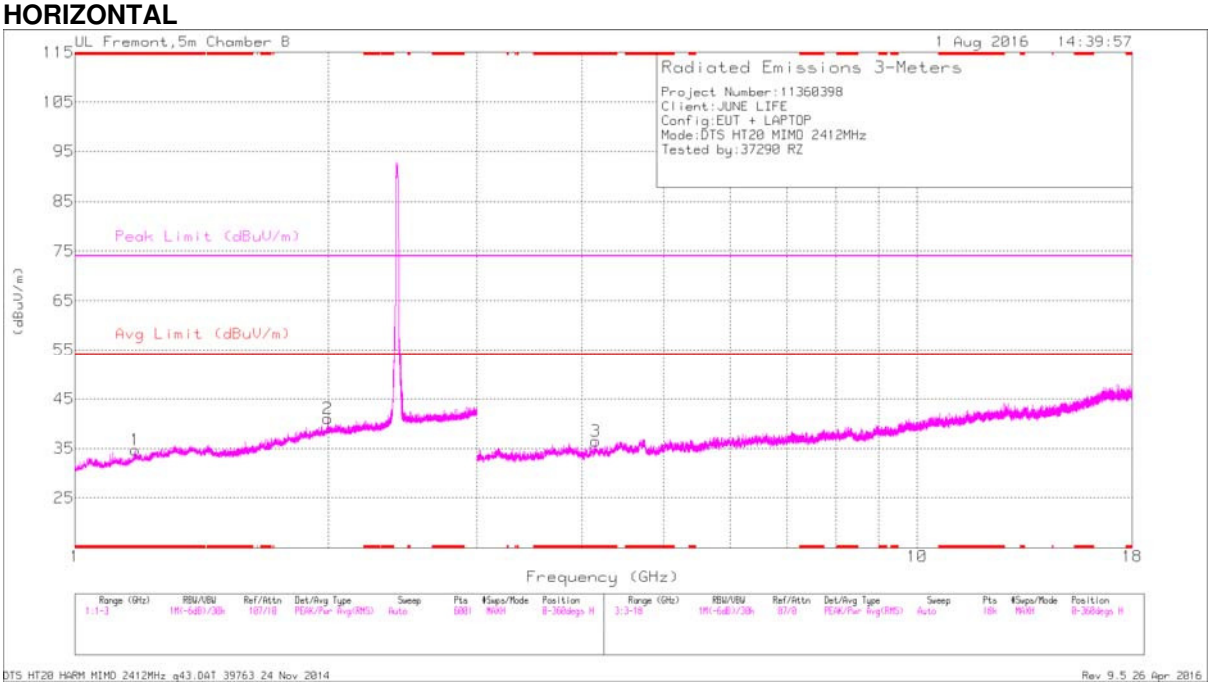
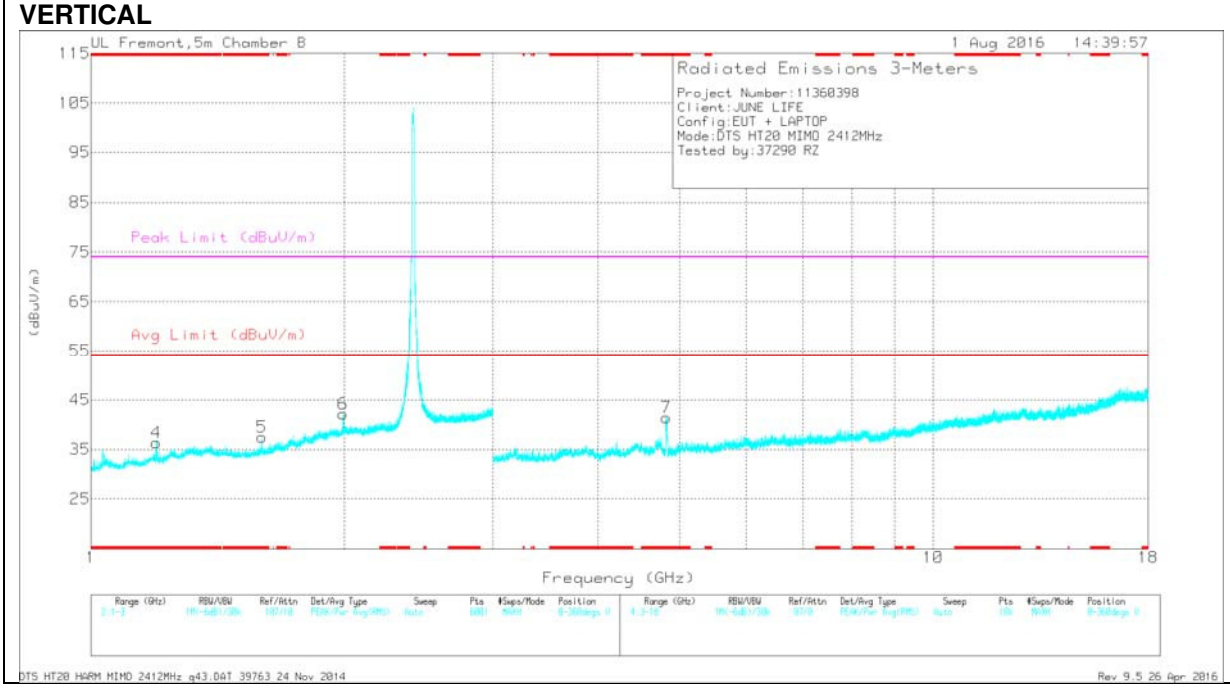
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL

HORIZONTAL



VERTICAL



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LOW CHANNEL DATA

Trace Markers

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)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.179	35.63	PK2	28.2	-23.7	0	40.13	-	-	74	-33.87	291	386	H
	* 1.179	24.65	MAv1	28.2	-23.6	.42	29.67	54	-24.33	-	-	291	386	H
4	* 1.195	40.95	PK2	28.3	-23.5	0	45.75	-	-	74	-28.25	270	212	V
	* 1.195	24.69	MAv1	28.3	-23.5	.42	29.91	54	-24.09	-	-	270	212	V
5	* 1.595	38.51	PK2	28.1	-22.2	0	44.41	-	-	74	-29.59	17	344	V
	* 1.596	24.3	MAv1	28.1	-22.3	.42	30.52	54	-23.48	-	-	17	344	V
3	* 4.142	40.55	PK2	33.7	-32.3	0	41.95	-	-	74	-32.05	64	154	H
	* 4.153	30.56	MAv1	33.7	-32.2	.42	32.48	54	-21.52	-	-	64	154	H
7	* 4.821	47.71	PK2	33.8	-31.7	0	49.81	-	-	74	-24.19	186	196	V
	* 4.821	35.89	MAv1	33.8	-31.7	.42	38.41	54	-15.59	-	-	186	196	V
6	1.992	40.57	PK2	31.4	-22.2	0	49.77	-	-	74	-24.23	249	135	V
2	1.993	38.91	PK2	31.5	-22.1	0	48.31	-	-	74	-25.69	289	309	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
Pk - Peak detector

PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

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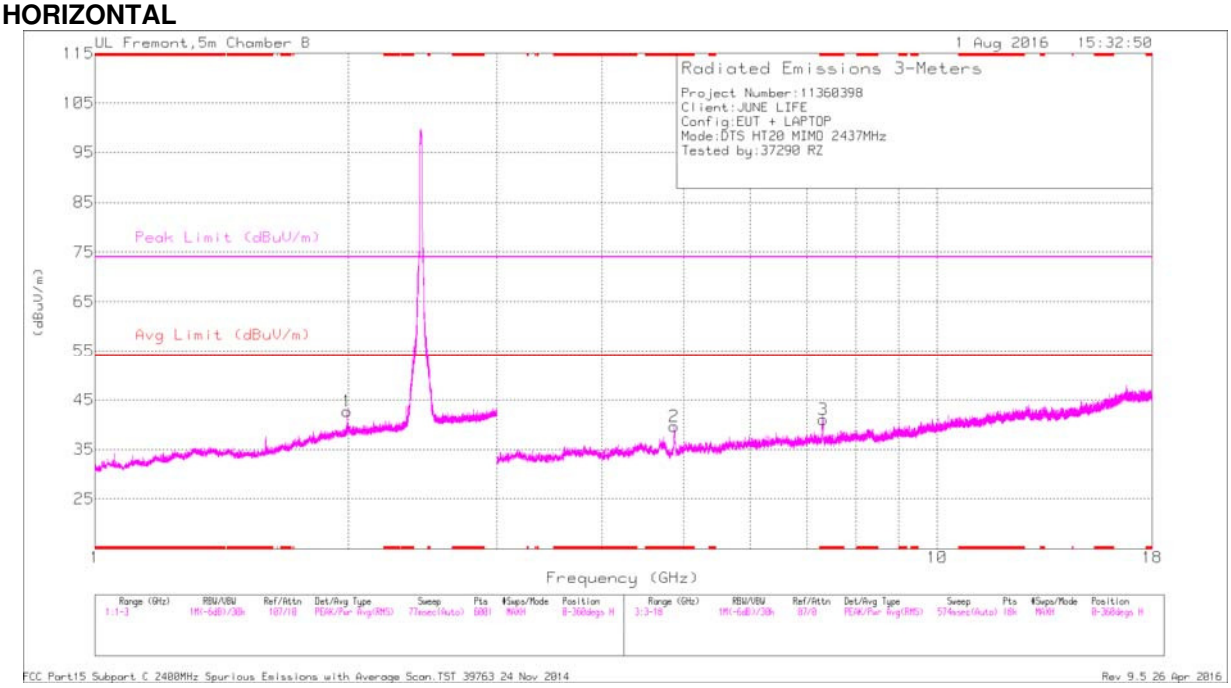
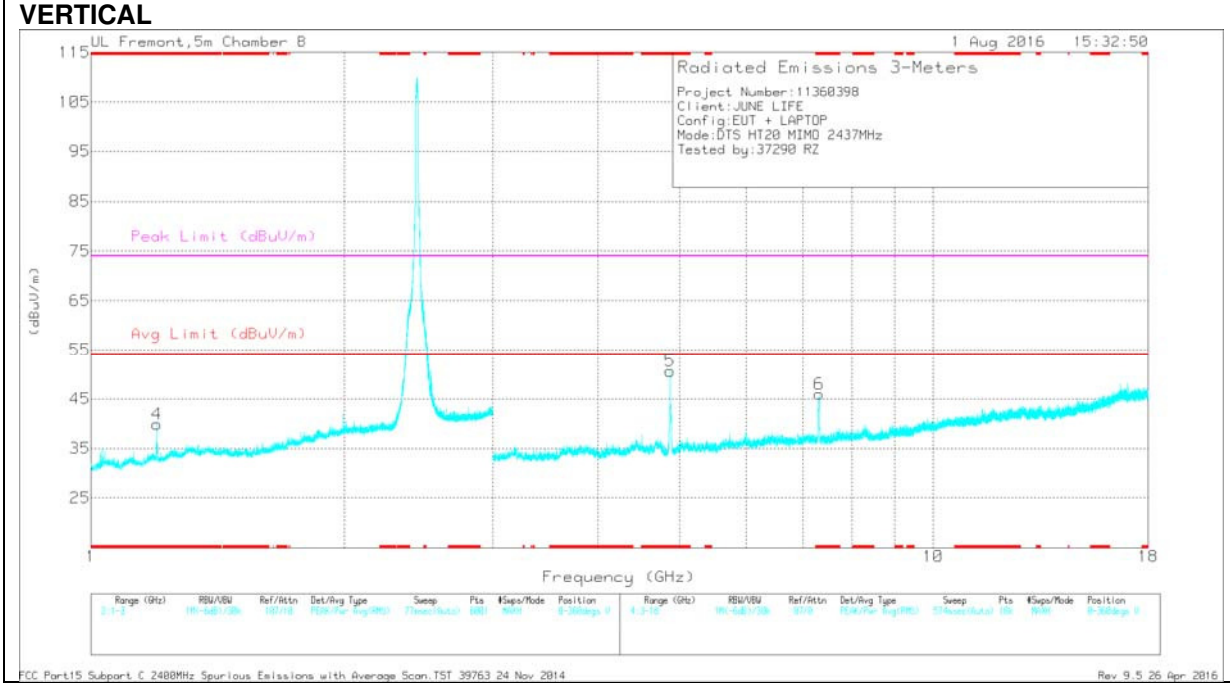
MID CHANNEL

HORIZONTAL



VERTICAL



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MID CHANNEL DATA

Trace Markers

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)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.198	42.05	PK2	28.3	-23.5	0	46.85	-	-	74	-27.15	248	226	V
	* 1.198	24.41	MAv1	28.3	-23.5	.42	29.63	54	-24.37	-	-	248	226	V
2	* 4.875	43.69	PK2	33.8	-32.7	0	44.79	-	-	74	-29.21	256	198	H
	* 4.873	32.72	MAv1	33.8	-32.7	.42	34.24	54	-19.76	-	-	256	198	H
3	* 7.316	44.34	PK2	35.6	-30.4	0	49.54	-	-	74	-24.46	178	295	H
	* 7.317	32.32	MAv1	35.6	-30.4	.42	37.94	54	-16.06	-	-	178	295	H
5	* 4.873	49.27	PK2	33.8	-32.7	0	50.37	-	-	74	-23.63	216	200	V
	* 4.873	38.08	MAv1	33.8	-32.7	.42	39.6	54	-14.4	-	-	216	200	V
6	* 7.316	47.93	PK2	35.6	-30.4	0	53.13	-	-	74	-20.87	178	183	V
	* 7.316	36.39	MAv1	35.6	-30.4	.42	42.01	54	-11.99	-	-	178	183	V
1	1.991	39.65	PK2	31.4	-22.2	0	48.85	-	-	74	-25.15	167	205	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

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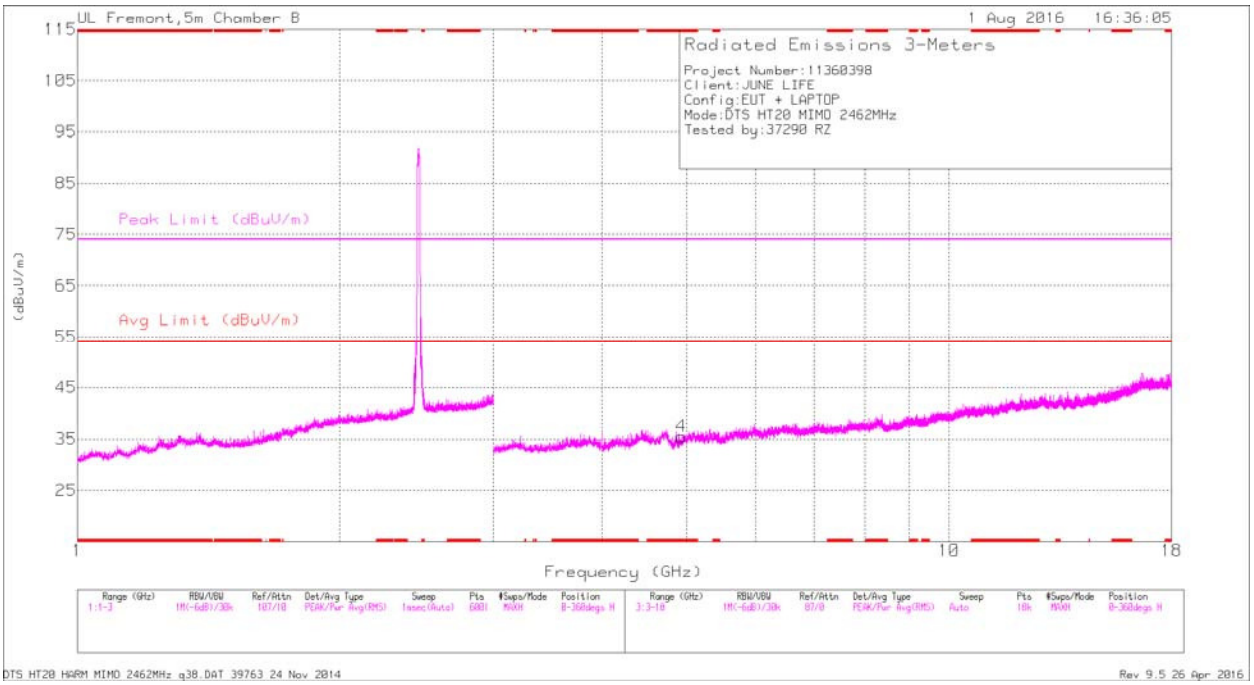
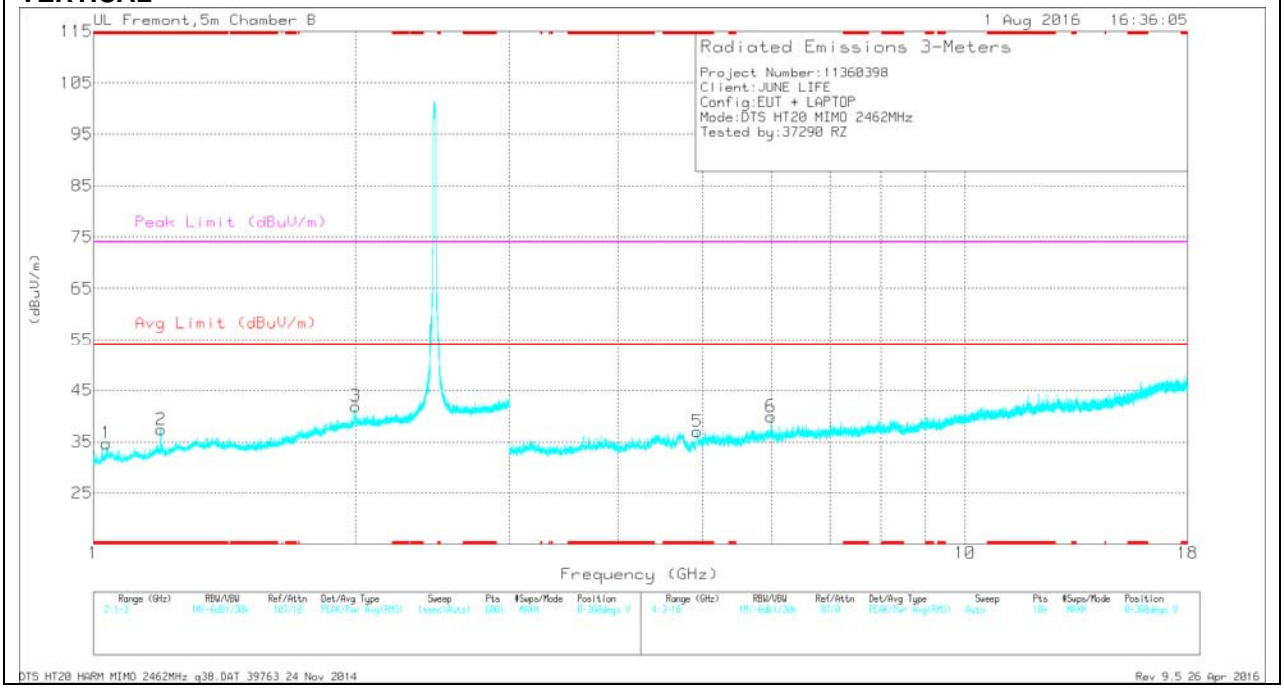
HIGH CHANNEL

HORIZONTAL



VERTICAL



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HIGH CHANNEL DATA

Trace Markers

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)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.034	39.5	PK2	27.8	-24.5	0	42.8	-	-	74	-31.2	14	317	V
	* 1.037	24.39	MAv1	27.8	-24.4	.42	28.21	54	-25.79	-	-	14	317	V
2	* 1.196	38.55	PK2	28.3	-23.4	0	43.45	-	-	74	-30.55	332	125	V
	* 1.191	23.82	MAv1	28.3	-23.5	.42	29.04	54	-24.96	-	-	332	125	V
4	* 4.931	40.54	PK2	33.9	-32.9	0	41.54	-	-	74	-32.46	218	122	H
	* 4.927	29.55	MAv1	33.9	-32.9	.42	30.97	54	-23.03	-	-	218	122	H
5	* 4.932	43.55	PK2	33.9	-32.9	0	44.55	-	-	74	-29.45	178	133	V
	* 4.923	33.11	MAv1	33.9	-32.9	.42	34.53	54	-19.47	-	-	178	133	V
3	2	45.06	PK2	31.5	-22.1	0	54.46	-	-	74	-19.54	63	216	V
6	5.994	38.76	PK2	35.2	-31.2	0	42.76	-	-	74	-31.24	247	289	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

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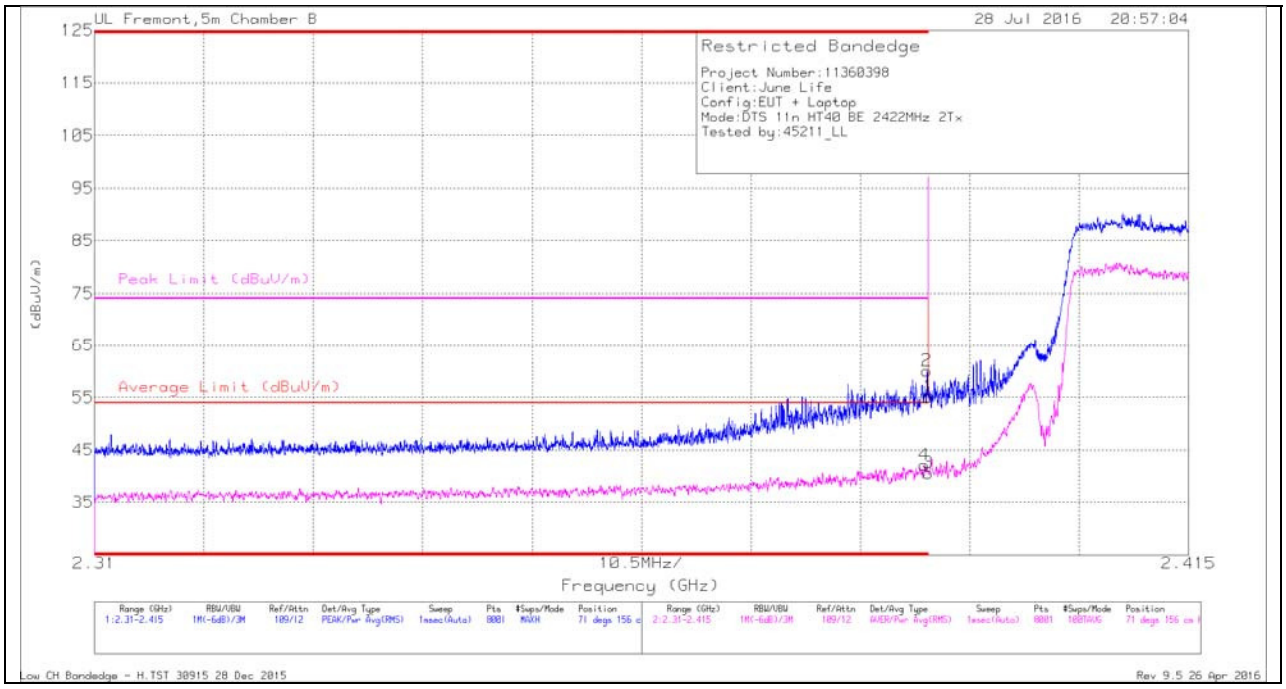
10.2.4. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/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	45.31	Pk	32.1	-22.3	0	55.11	-	-	74	-18.89	71	156	H
2	* 2.39	50.31	Pk	32.1	-22.3	0	60.11	-	-	74	-13.89	71	156	H
3	* 2.39	30.04	RMS	32.1	-22.3	.8	40.64	54	-13.36	-	-	71	156	H
4	* 2.39	31.55	RMS	32.1	-22.3	.8	42.15	54	-11.85	-	-	71	156	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
Pk - Peak detector
RMS - RMS detection

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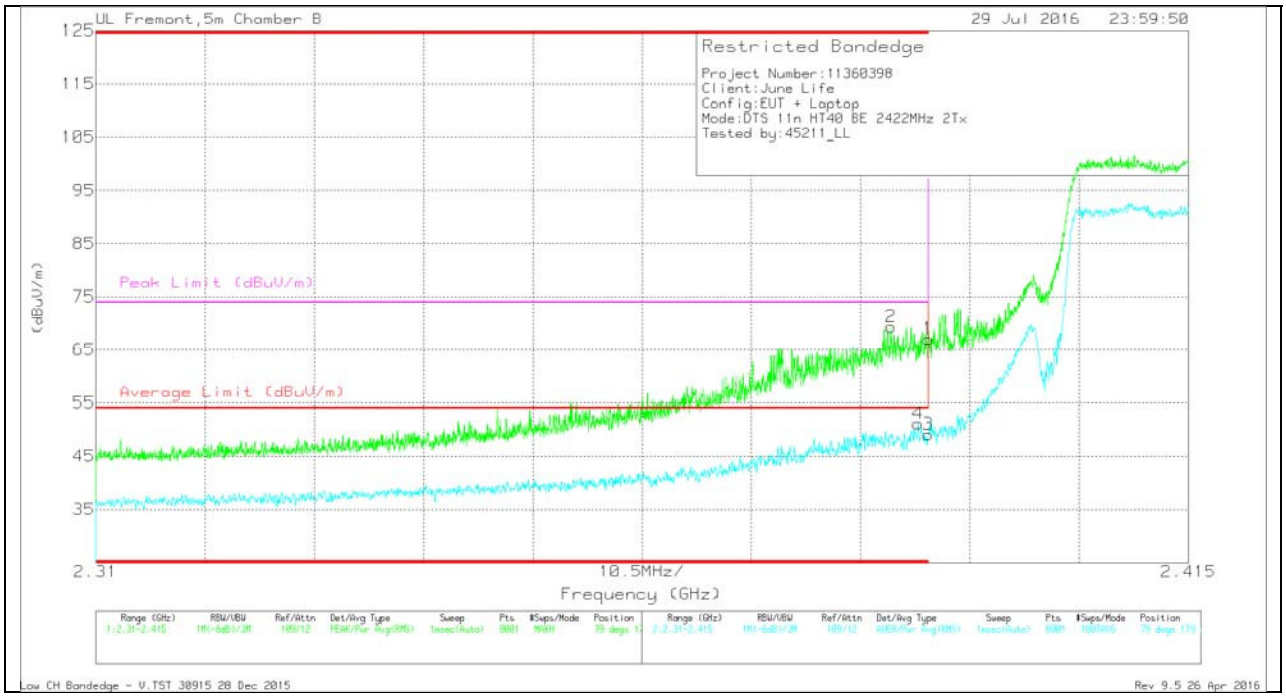
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/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	* 2.386	59.68	Pk	32.1	-22.4	0	69.38	-	-	74	-4.62	79	179	V
4	* 2.389	40.45	RMS	32.1	-22.3	.8	51.05	54	-2.95	-	-	79	179	V
1	* 2.39	57.29	Pk	32.1	-22.3	0	67.09	-	-	74	-6.91	79	179	V
3	* 2.39	38.42	RMS	32.1	-22.3	.8	49.02	54	-4.98	-	-	79	179	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
Pk - Peak detector
RMS - RMS detection

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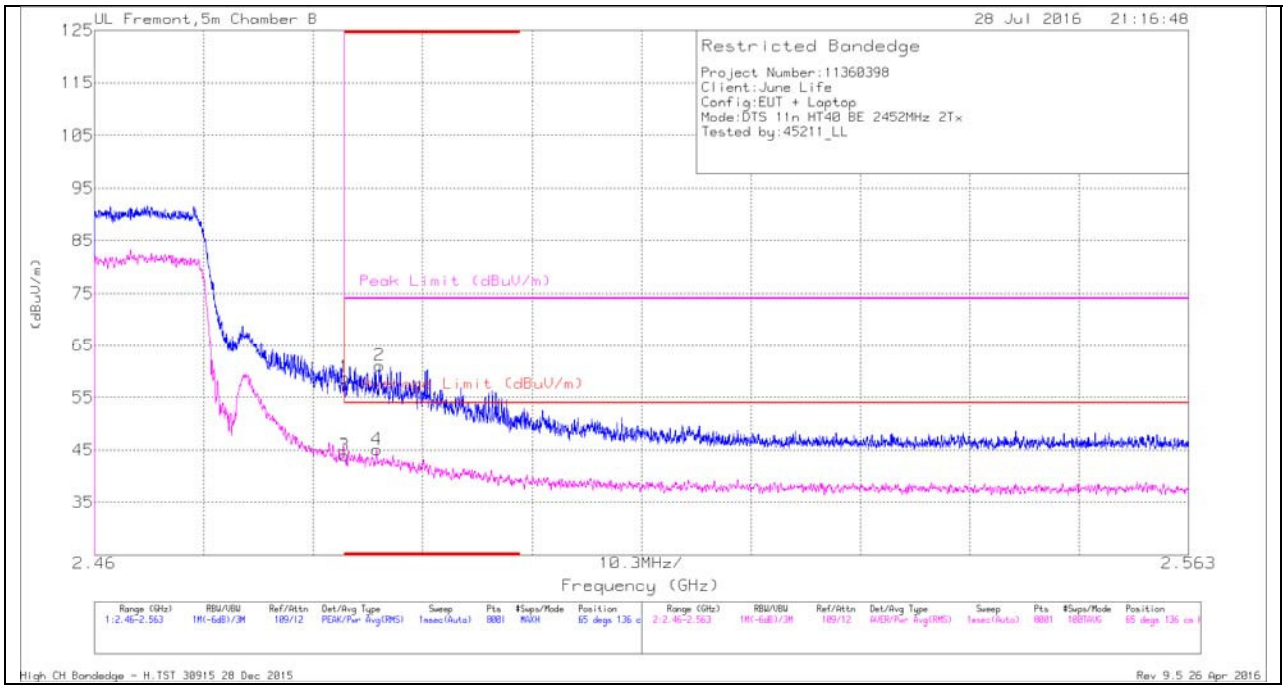
AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/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	48.8	Pk	32.3	-22.3	0	58.8	-	-	74	-15.2	65	136	H
3	* 2.484	33.15	RMS	32.3	-22.3	.8	43.95	54	-10.05	-	-	65	136	H
2	* 2.487	51.11	Pk	32.3	-22.3	0	61.11	-	-	74	-12.89	65	136	H
4	* 2.487	34.24	RMS	32.3	-22.3	.8	45.04	54	-8.96	-	-	65	136	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
Pk - Peak detector
RMS - RMS detection

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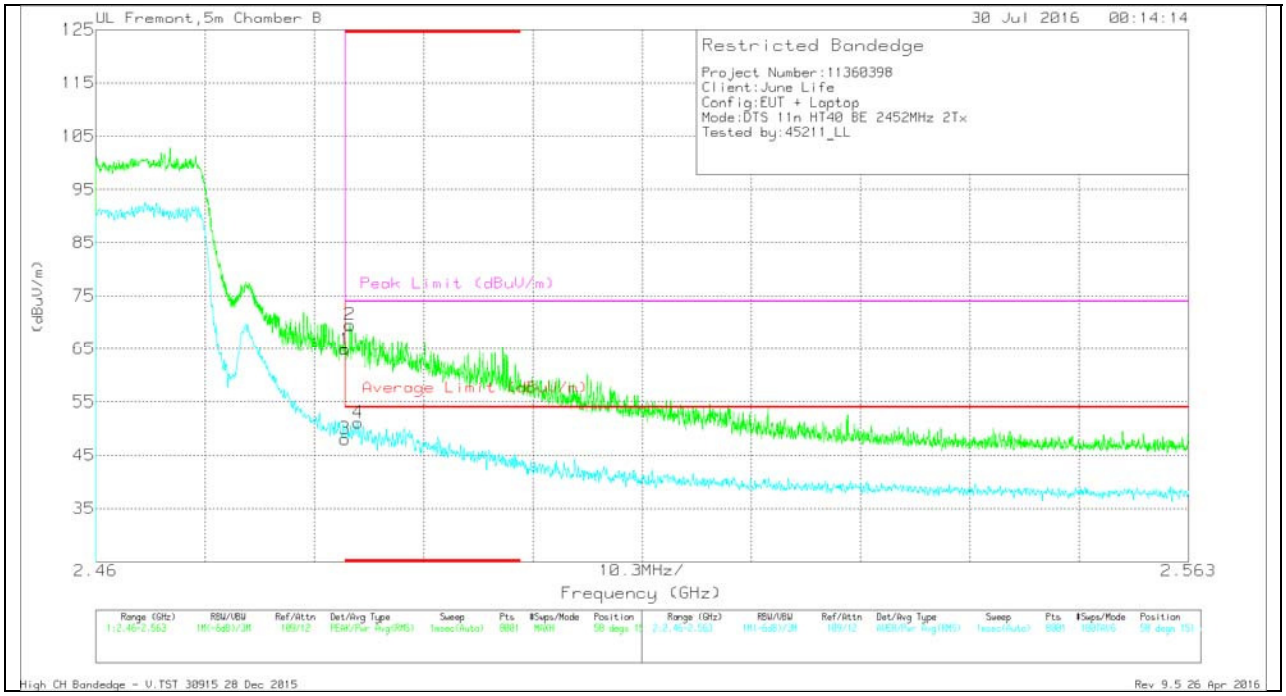
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/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	54.92	Pk	32.3	-22.3	0	64.92	-	-	74	-9.08	58	151	V
2	* 2.484	59.57	Pk	32.3	-22.3	0	69.57	-	-	74	-4.43	58	151	V
3	* 2.484	37.23	RMS	32.3	-22.3	.8	48.03	54	-5.97	-	-	58	151	V
4	* 2.485	40.28	RMS	32.3	-22.3	.8	51.08	54	-2.92	-	-	58	151	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
Pk - Peak detector
RMS - RMS detection

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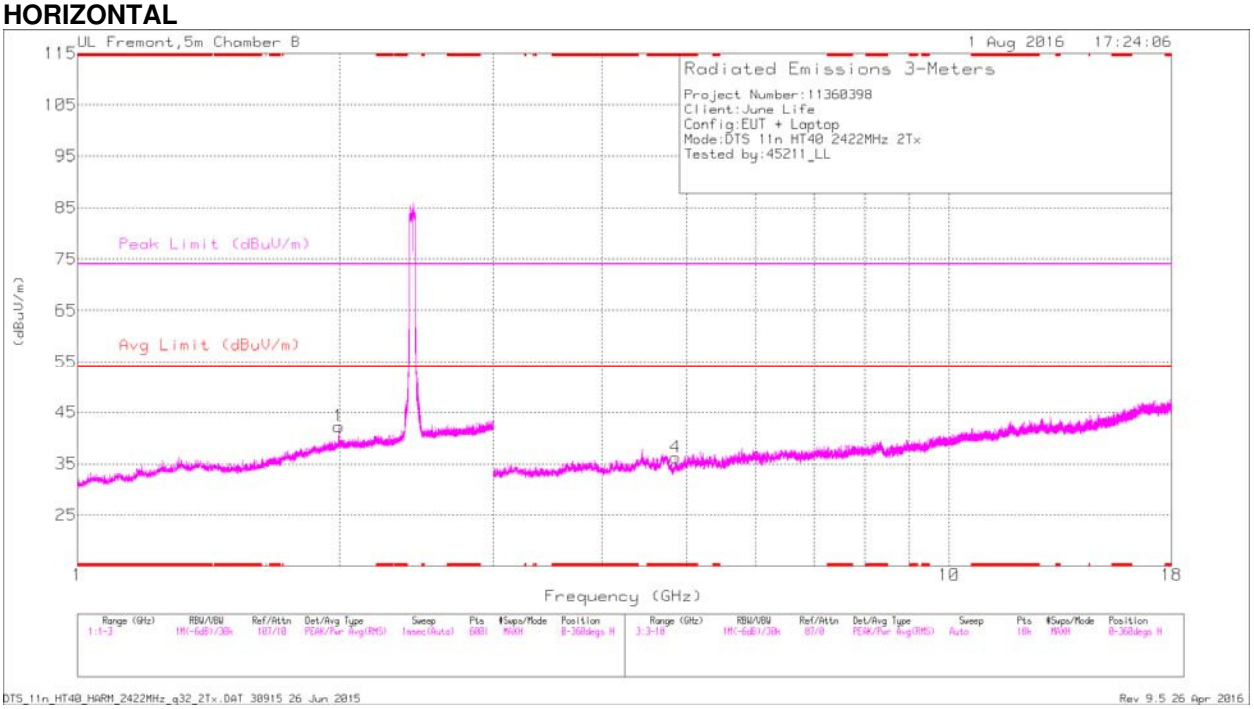
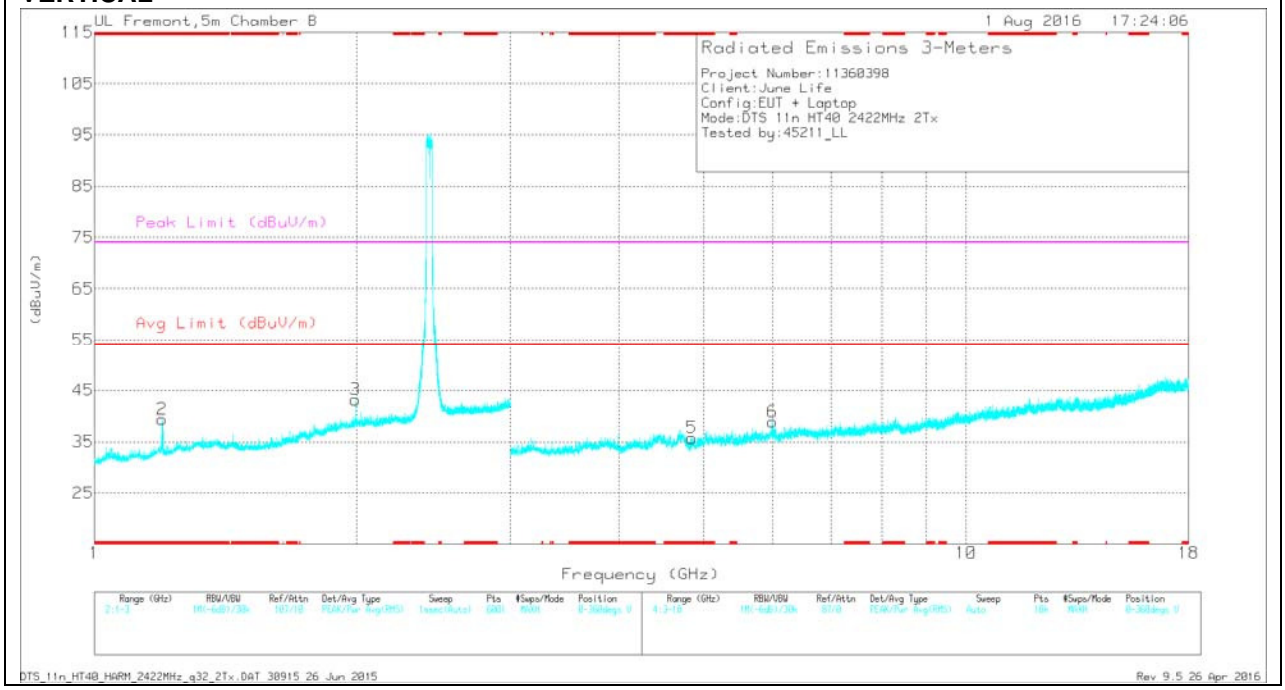
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL

HORIZONTAL



VERTICAL



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LOW CHANNEL DATA

Trace Markers

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)	Azimuth (Degs)	Height (cm)	Polarity
2	* 1.195	42.7	PK2	28.3	-23.4	0	47.6	-	-	74	-26.4	212	390	V
	* 1.195	24.86	MAv1	28.3	-23.5	.8	30.46	54	-23.54	-	-	212	390	V
4	* 4.851	39.72	PK2	33.8	-32.3	0	41.22	-	-	74	-32.78	241	151	H
	* 4.854	28.87	MAv1	33.8	-32.4	.8	31.07	54	-22.93	-	-	241	151	H
5	* 4.848	41.13	PK2	33.8	-32.3	0	42.63	-	-	74	-31.37	185	220	V
	* 4.847	30.45	MAv1	33.8	-32.3	.8	32.75	54	-21.25	-	-	185	220	V
3	1.992	39.13	PK2	31.5	-22.1	0	48.53	-	-	74	-25.47	103	287	H
1	1.994	43.94	PK2	31.5	-22.1	0	53.34	-	-	74	-20.66	56	257	V
6	5.997	42.2	PK2	35.2	-31.2	0	46.2	-	-	74	-27.8	195	367	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

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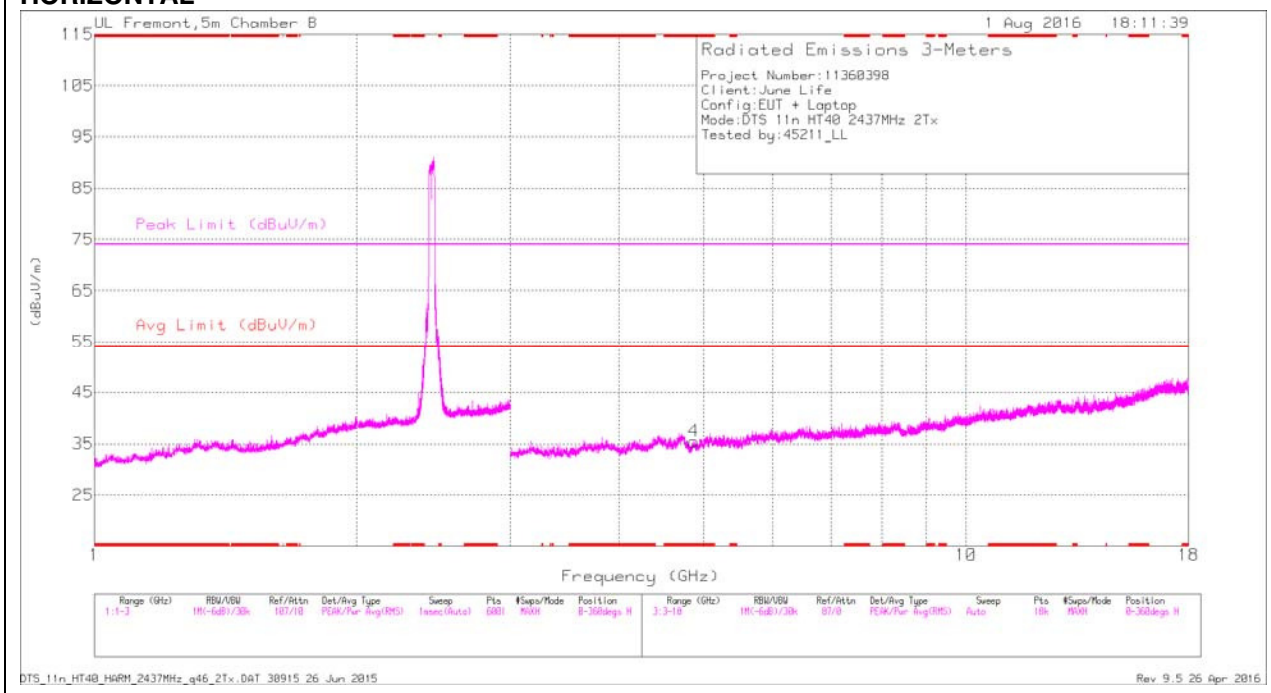
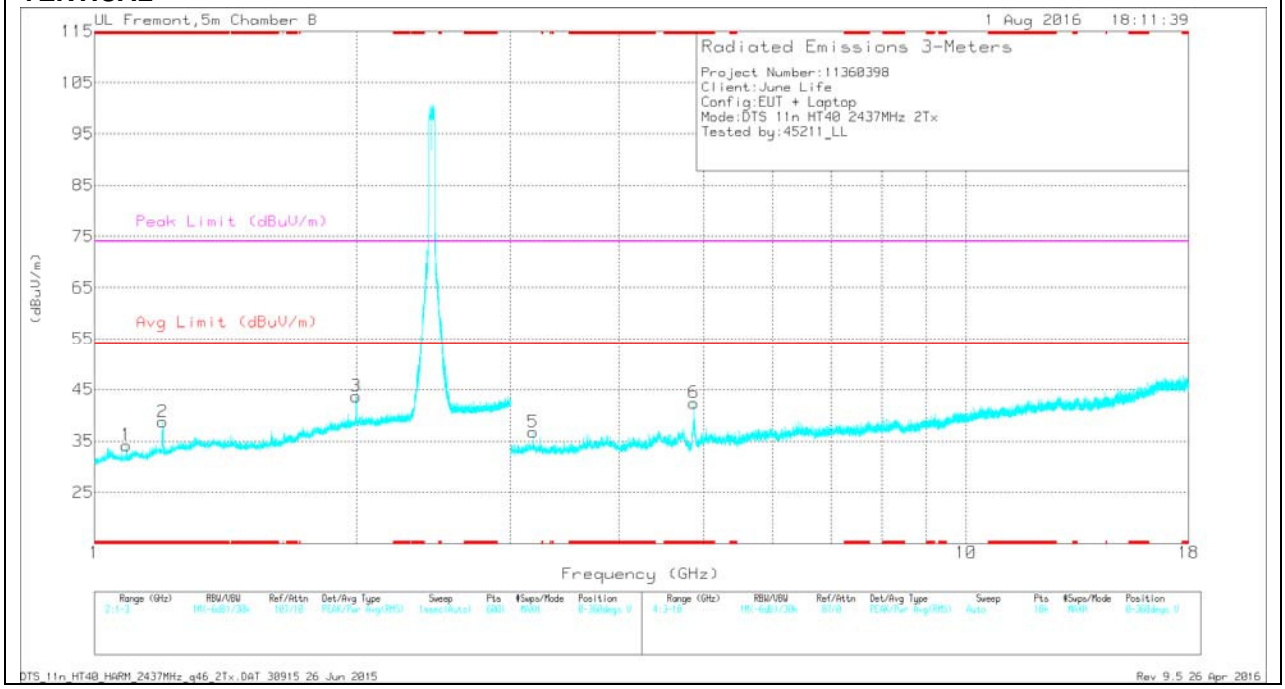
MID CHANNEL

HORIZONTAL



VERTICAL



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MID CHANNEL DATA

Trace Markers

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)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.087	34.98	PK2	27.9	-24.1	0	38.78	-	-	74	-35.22	191	354	V
	* 1.086	23.55	MAv1	27.9	-24.1	.8	28.15	54	-25.85	-	-	191	354	V
2	* 1.195	43.62	PK2	28.3	-23.5	0	48.42	-	-	74	-25.58	216	207	V
	* 1.197	24.91	MAv1	28.3	-23.4	.8	30.61	54	-23.39	-	-	216	207	V
4	* 4.862	39.99	PK2	33.8	-32.5	0	41.29	-	-	74	-32.71	235	175	H
	* 4.868	29.85	MAv1	33.8	-32.6	.8	31.85	54	-22.15	-	-	235	175	H
6	* 4.87	47.83	PK2	33.8	-32.6	0	49.03	-	-	74	-24.97	186	195	V
	* 4.873	36.4	MAv1	33.8	-32.7	.8	38.3	54	-15.7	-	-	186	195	V
3	1.992	43.98	PK2	31.4	-22.2	0	53.18	-	-	74	-20.82	60	225	V
5	3.19	40.53	PK2	33	-32.2	0	41.33	-	-	74	-32.67	141	257	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

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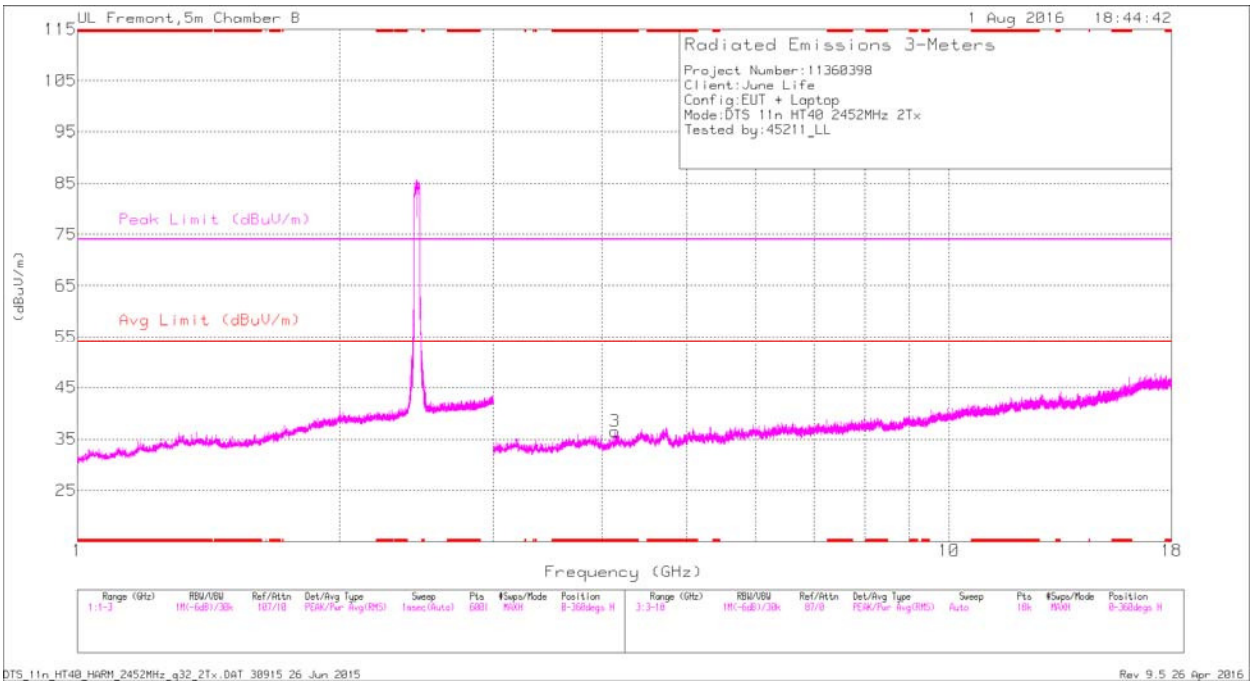
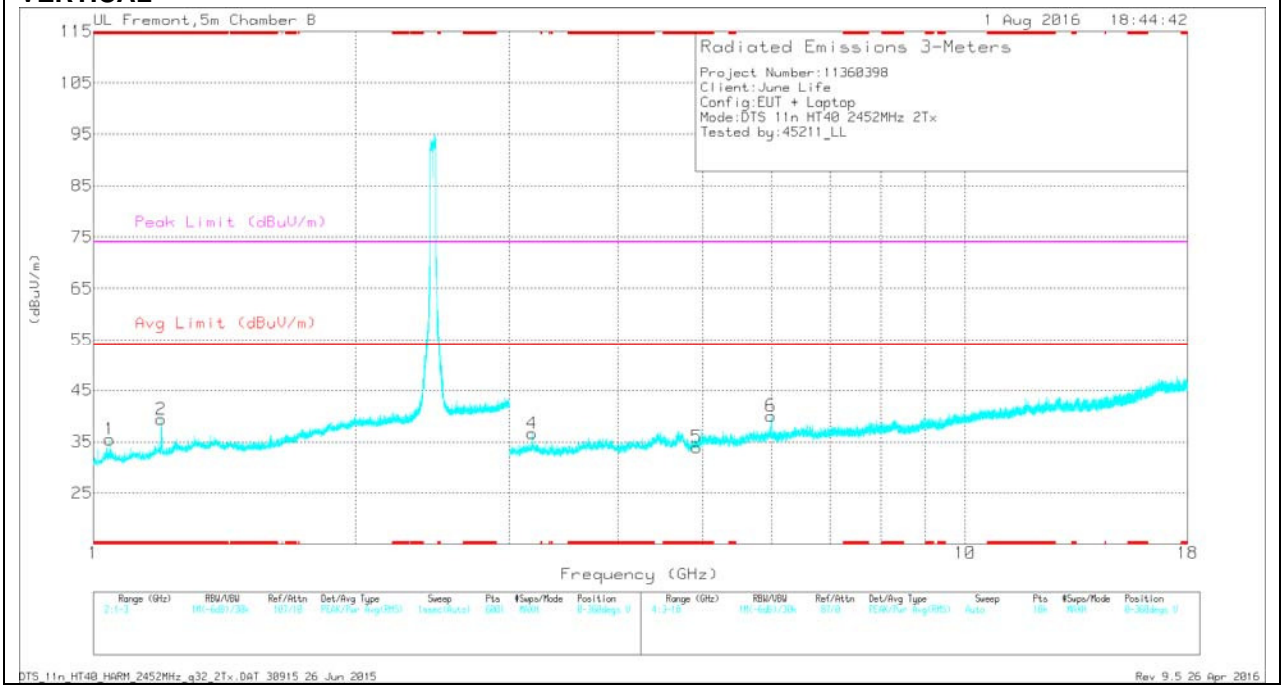
HIGH CHANNEL

HORIZONTAL



VERTICAL



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HIGH CHANNEL DATA

Trace Markers

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)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.044	38.26	PK2	27.8	-24.3	0	41.76	-	-	74	-32.24	339	179	V
	* 1.042	24.28	MAv1	27.8	-24.4	.8	28.48	54	-25.52	-	-	339	179	V
2	* 1.195	41.67	PK2	28.3	-23.5	0	46.47	-	-	74	-27.53	228	247	V
	* 1.196	24.58	MAv1	28.3	-23.4	.8	30.28	54	-23.72	-	-	228	247	V
3	* 4.141	39.66	PK2	33.7	-32.3	0	41.06	-	-	74	-32.94	254	344	H
	* 4.141	28.67	MAv1	33.7	-32.3	.8	30.87	54	-23.13	-	-	254	344	H
5	* 4.925	39.55	PK2	33.9	-32.9	0	40.55	-	-	74	-33.45	249	206	V
	* 4.923	29.24	MAv1	33.9	-32.9	.8	31.04	54	-22.96	-	-	249	206	V
4	3.187	41.21	PK2	33	-32.2	0	42.01	-	-	74	-31.99	64	267	V
6	5.991	41.74	PK2	35.2	-31.1	0	45.84	-	-	74	-28.16	283	244	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

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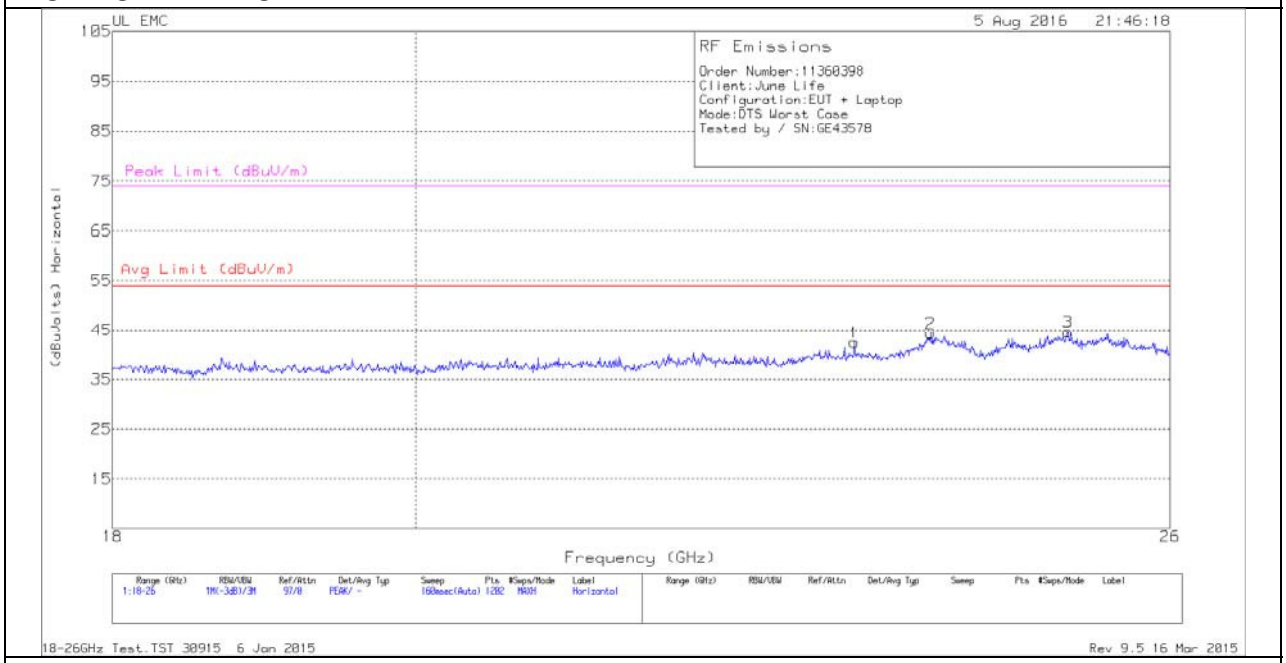
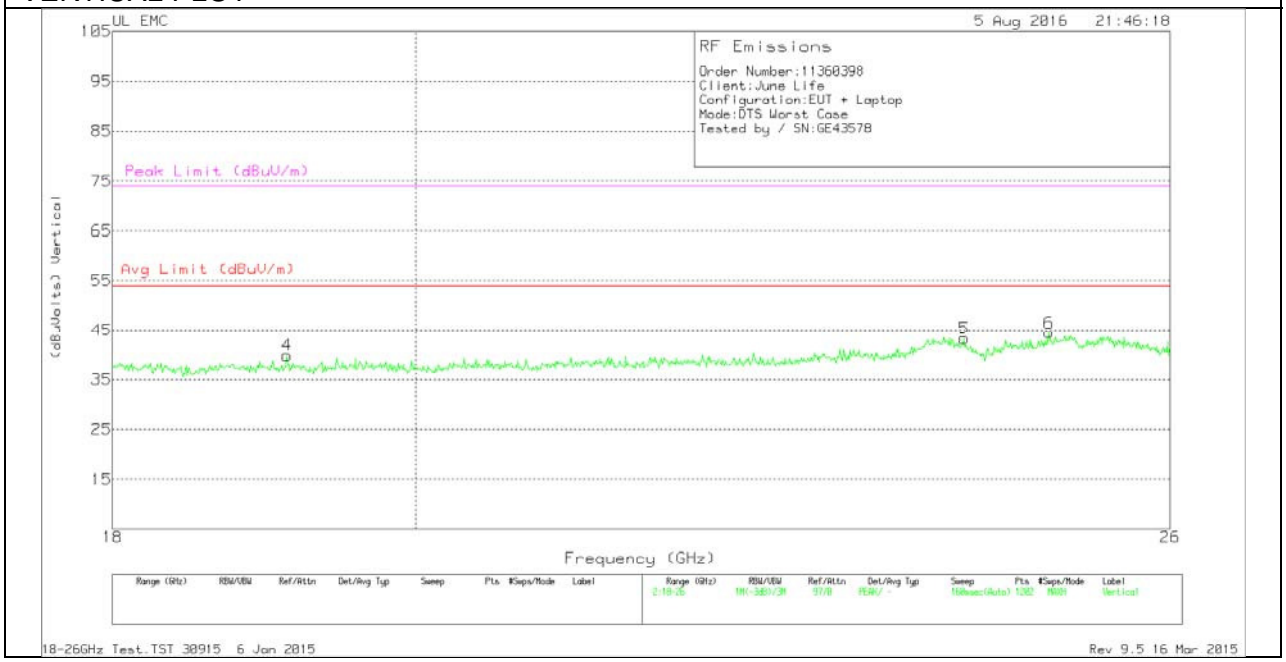
10.1. WORST-CASE 18-26GHz

SPURIOUS EMISSIONS 18-26GHz (WORST-CASE CONFIGURATION)

HORIZONTAL PLOT



VERTICAL PLOT



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Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T449 (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	23.296	43.1	Pk	33.6	-24.7	-9.5	42.5	54	-11.5	74	-31.5
2	23.922	43.73	Pk	34	-23.9	-9.5	44.33	54	-9.67	74	-29.67
3	25.087	44.37	Pk	34.3	-24.5	-9.5	44.67	54	-9.33	74	-29.33
4	19.126	41.03	Pk	32.7	-24.4	-9.5	39.83	54	-14.17	74	-34.17
5	24.201	43.03	Pk	33.9	-24.1	-9.5	43.33	54	-10.67	74	-30.67
6	24.928	44.1	Pk	34.2	-24.3	-9.5	44.5	54	-9.5	74	-29.5

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
Pk - Peak detector

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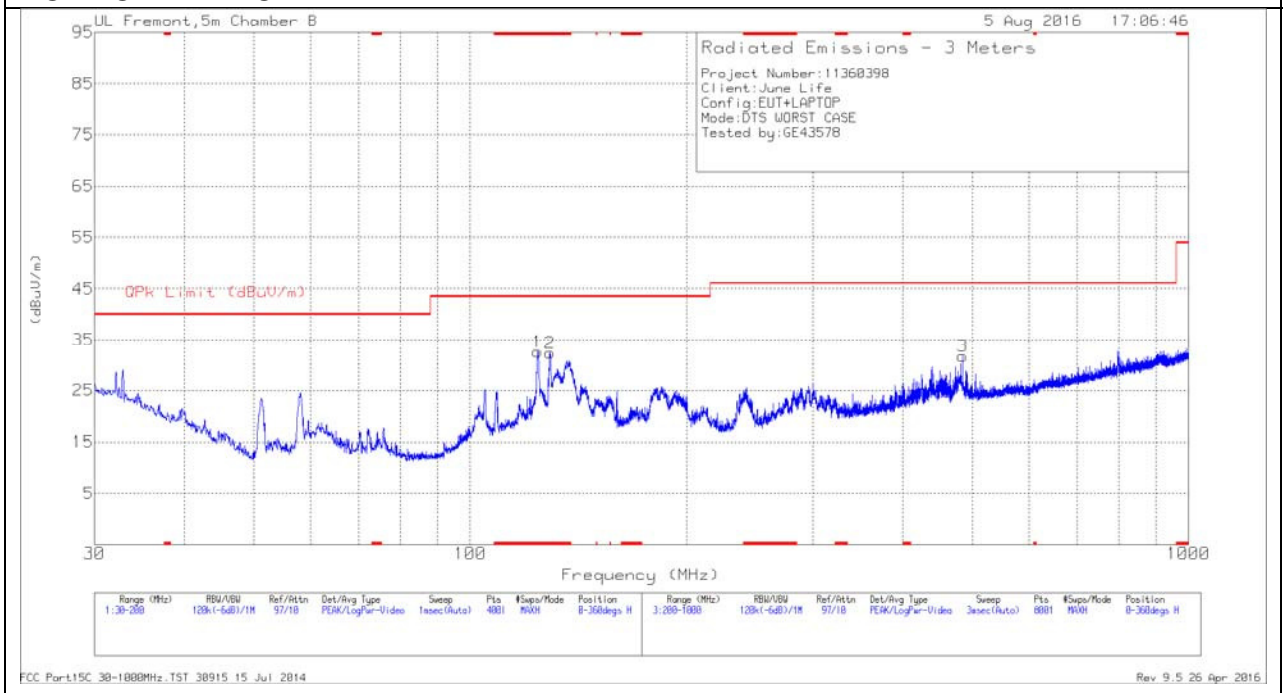
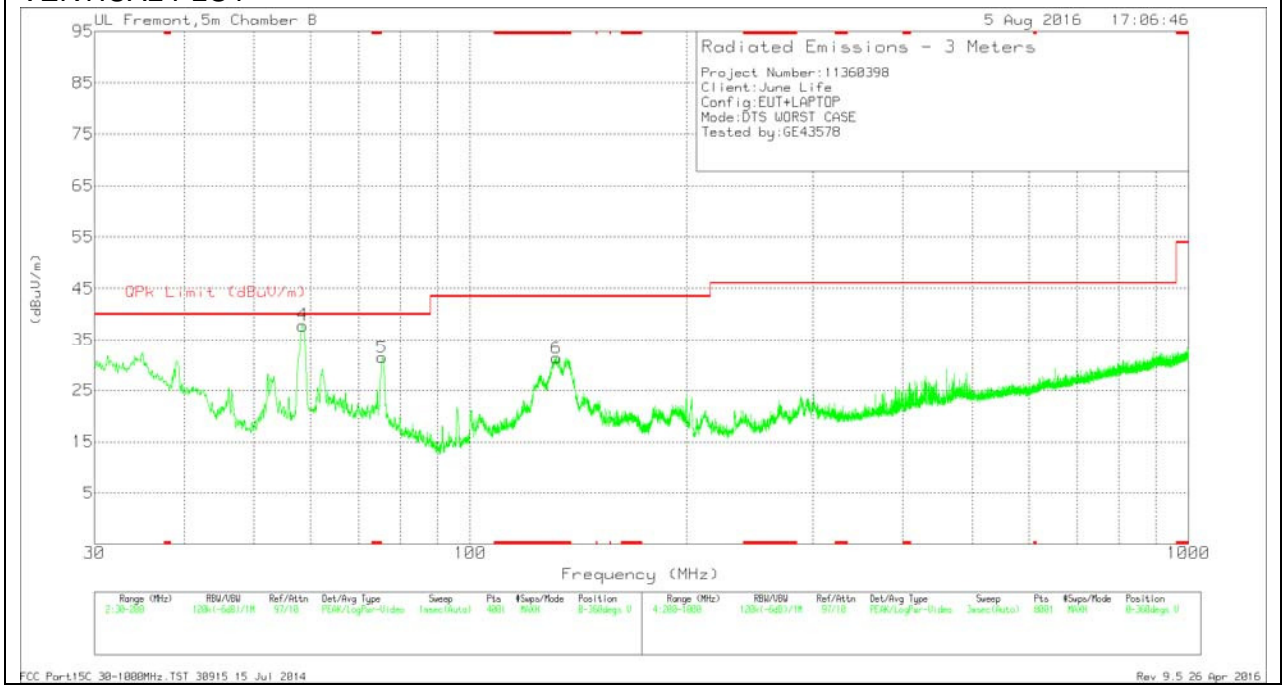
10.2. WORST-CASE BELOW 1 GHz

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

HORIZONTAL PLOT



VERTICAL PLOT



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Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T130 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 124.265	42.67	Pk	17.8	-27.9	32.57	43.52	-10.95	0-360	100	H
2	* 129.2375	42.3	Pk	17.8	-27.8	32.3	43.52	-11.22	0-360	300	H
6	* 131.7875	41.45	Pk	17.7	-27.8	31.35	43.52	-12.17	0-360	100	V
4	58.6307	31.53	Qp	11.4	-28.6	14.33	40	-25.67	37	115	V
5	75.4325	47.76	Pk	11.9	-28.2	31.46	40	-8.54	0-360	100	V
3	485	36.41	Pk	21.6	-26.3	31.71	46.02	-14.31	0-360	100	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
Pk - Peak detector
Qp - Quasi-Peak detector

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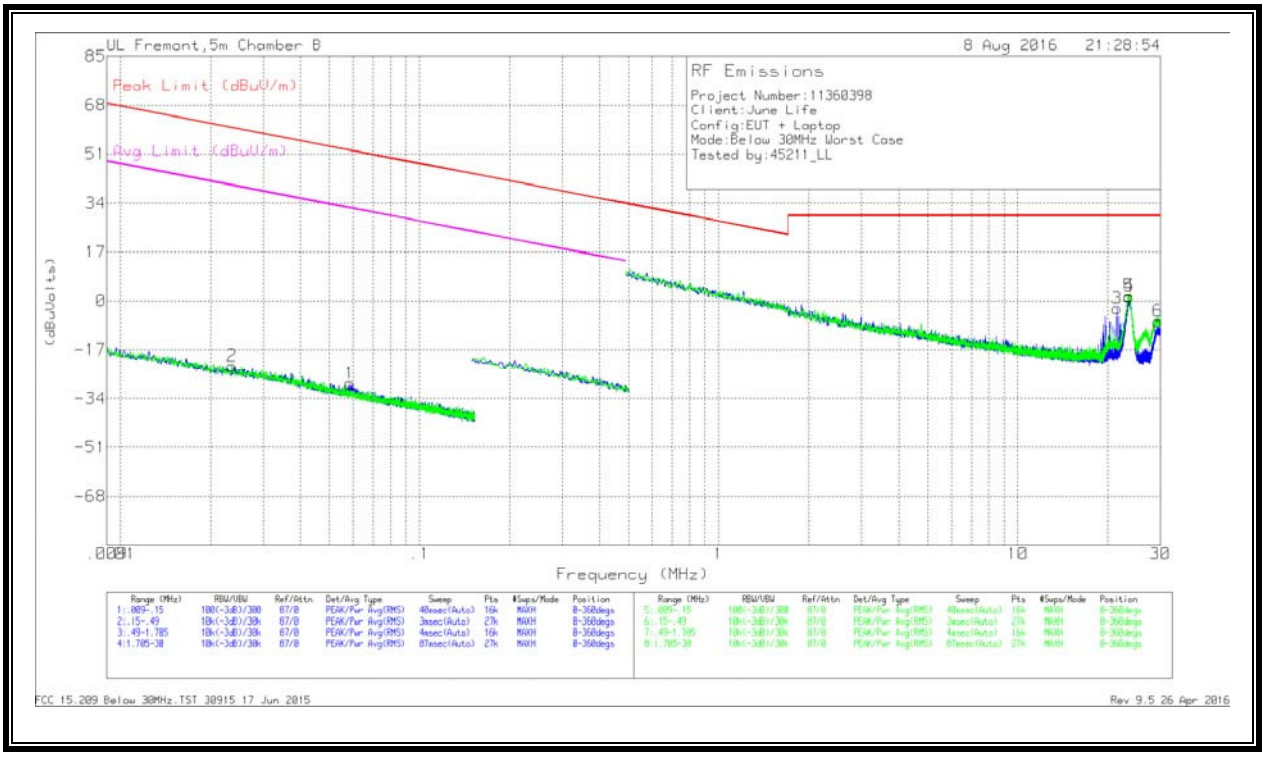
10.1. WORST-CASE BELOW 30 MHz

SPURIOUS EMISSIONS BELOW 30MHz (WORST-CASE CONFIGURATION)



Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	.05857	38.52	Pk	11.2	1.4	-80	-28.88	52.25	-81.13	32.25	-61.13	0-360
2	.02356	42.5	Pk	13.5	1.4	-80	-22.6	60.16	-82.76	40.16	-62.76	0-360
3	21.44198	25.95	Pk	9.8	1.7	-40	-2.55	29.54	-32.09	-	-	0-360
4	23.593	30.2	Pk	9.5	1.7	-40	1.4	29.54	-28.14	-	-	0-360
5	23.582	30.56	Pk	9.5	1.7	-40	1.76	29.54	-27.78	-	-	0-360
6	29.40207	23.01	Pk	8.1	1.7	-40	-7.19	29.54	-36.73	-	-	0-360

Pk - Peak detector

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11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

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 C63.10.

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

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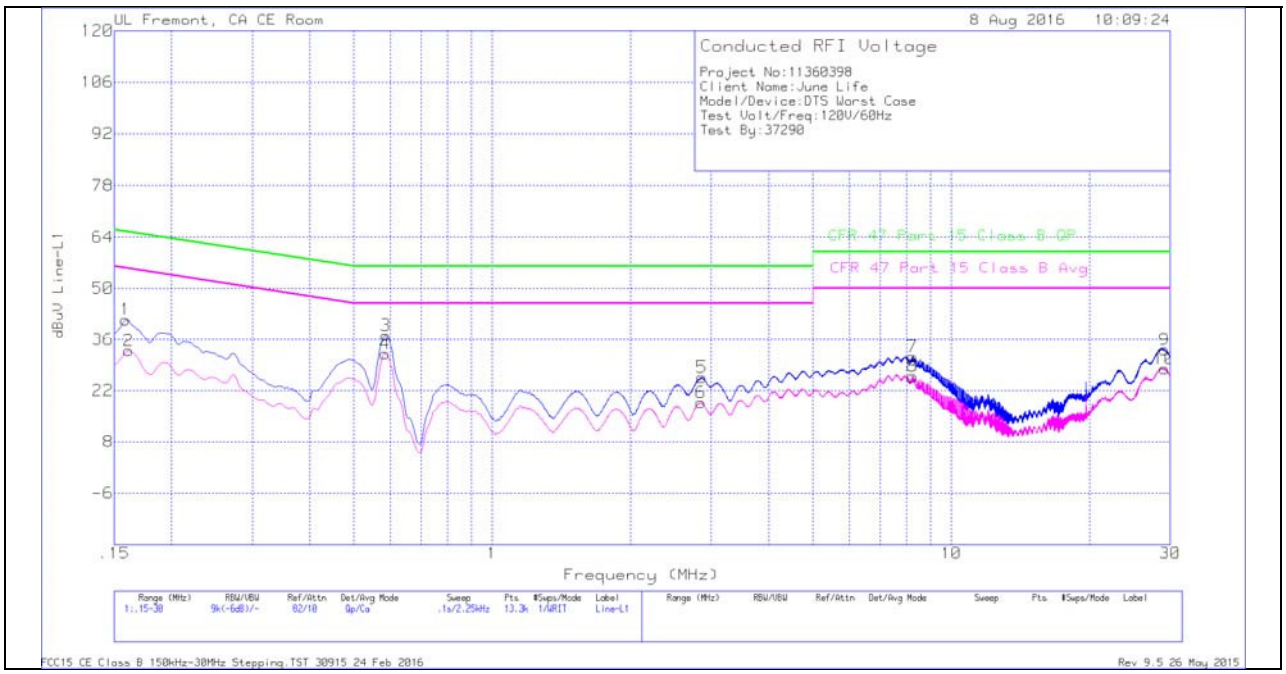
LINE 1 PLOT



LINE 1 RESULTS

Range 1: Line-L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables 1&3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
1	.159	31.43	Qp	0	0	10.1	41.53	65.52	-23.99	-	-
2	.16125	22.84	Ca	0	0	10.1	32.94	-	-	55.4	-22.46
3	.5865	27.11	Qp	0	0	10.1	37.21	56	-18.79	-	-
4	.58425	21.97	Ca	0	0	10.1	32.07	-	-	46	-13.93
5	2.8635	15.38	Qp	0	.1	10.1	25.58	56	-30.42	-	-
6	2.84775	8.52	Ca	0	.1	10.1	18.72	-	-	46	-27.28
7	8.23875	20.94	Qp	0	.1	10.2	31.24	60	-28.76	-	-
8	8.23875	15.53	Ca	0	.1	10.2	25.83	-	-	50	-24.17
9	29.139	22.39	Qp	.1	.3	10.4	33.19	60	-26.81	-	-
10	29.139	17.12	Ca	.1	.3	10.4	27.92	-	-	50	-22.08

Qp - Quasi-Peak detector

Ca - CISPR average detection

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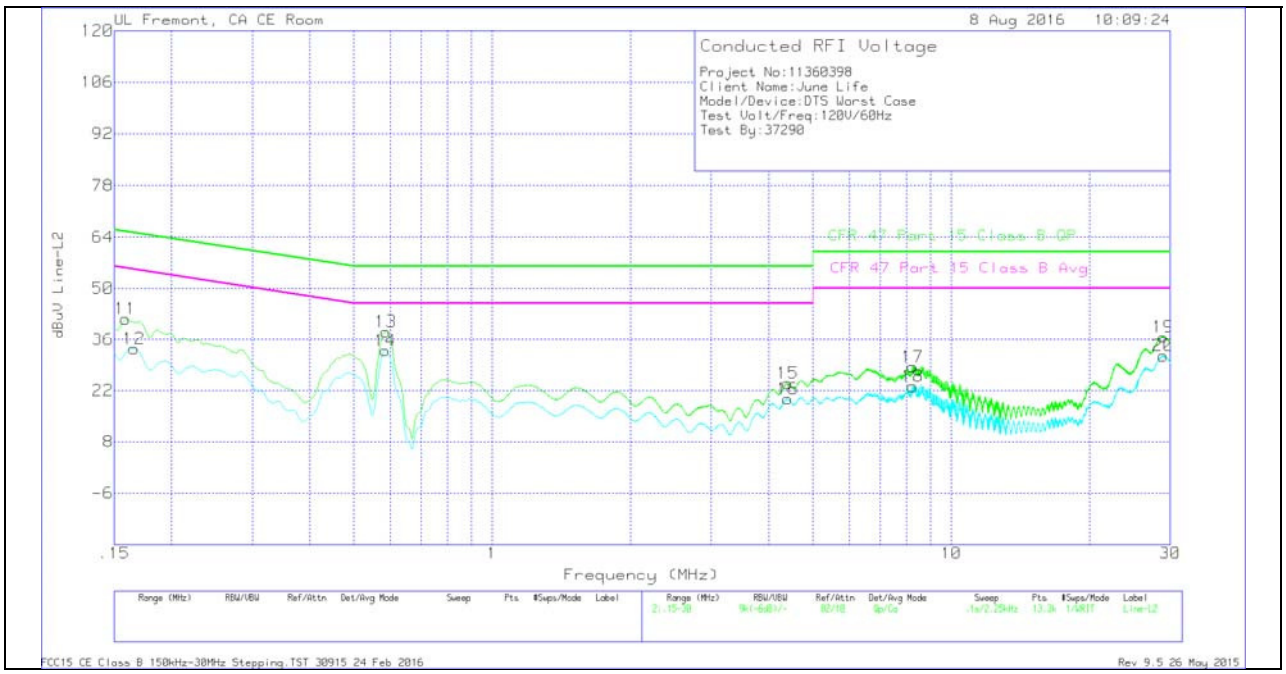
LINE 2 PLOT



LINE 2 RESULTS

Range 2: Line-L2 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables 2&3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
11	.159	31.62	Qp	0	0	10.1	41.72	65.52	-23.8	-	-
12	.16575	23.37	Ca	0	0	10.1	33.47	-	-	55.17	-21.7
13	.5865	28.13	Qp	0	0	10.1	38.23	56	-17.77	-	-
14	.58425	22.85	Ca	0	0	10.1	32.95	-	-	46	-13.05
15	4.4025	13.74	Qp	0	.1	10.1	23.94	56	-32.06	-	-
16	4.4025	9.55	Ca	0	.1	10.1	19.75	-	-	46	-26.25
17	8.23875	18.12	Qp	0	.1	10.2	28.42	60	-31.58	-	-
18	8.23875	12.78	Ca	0	.1	10.2	23.08	-	-	50	-26.92
19	28.97363	25.95	Qp	.1	.3	10.4	36.75	60	-23.25	-	-
20	28.97475	20.66	Ca	.1	.3	10.4	31.46	-	-	50	-18.54

Qp - Quasi-Peak detector

Ca - CISPR average detection

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