

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: QardioBase 2
Brand Name: Qardio
Model No.: B200
Model Difference: N/A
FCC ID: 2ABF2-888BAS2
Report No.: ER/2017/50132
Issue Date: Aug. 18, 2017
FCC Rule Part: §15.247, Cat: DTS
Prepared for: Qardio Inc.
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SGS Taiwan Ltd.
Prepared by: Electronics & Communication Laboratory
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VERIFICATION OF COMPLIANCE

Applicant: Qardio Inc.
115 Sansome Street, suite 1005, San Francisco, CA, 94104, USA

Product Name: QardioBase 2

Brand Name: Qardio

Model No.: B200

Model Difference: N/A

FCC ID: 2ABF2-888BAS2

Report Number: ER/2017/50132

Date of test: May 26, 2017 ~ Aug. 07, 2017

Date of EUT Received: May 26, 2017

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

Test By:

JJ Chen

Date:

Aug. 18, 2017

JJ Chen / Engineer

Prepared By:

Stefanie Yu

Date:

Aug. 18, 2017

Stefanie Yu / Clerk

Approved By:

Jim Chang

Date:

Aug. 18, 2017

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
ER/2017/50132	Rev.00	Initial creation of document	Aug. 18, 2017

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1 GENERAL INFORMATION

1.1 Product description

General:

Product Name:	QardioBase 2	
Brand Name:	Qardio	
Model No.:	B200	
Model Difference:	N/A	
Software version:	N/A	
Hardware version:	N/A	
Micro USB Cable:	Model No.: N/A, Supplier: N/A	
Power Supply:	3.8Vdc from Lithium Ion Polymer Rechargeable battery or 5Vdc from Micro USB Cable	
	Battery:	Model No.: BP1050, Supplier: N/A

WLAN 2.4GHz:

Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology
11b/g	2412-2462	11	b: 19.71dBm g: 21.54dBm	DSSS, OFDM
11n	HT20 2412-2462	11	HT20:21.46dBm	OFDM
11n	HT40 2422-2452	9	HT40:19.72dBm	OFDM
Modulation type:		CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM		
Transition Rate:		802.11 b: 1/2/5.5/11 Mbps 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 72.2Mbps 802.11 n_40MHz: 13.5 - 150.0Mbps		
Antenna Designation:		Embedded Antenna, Peak Gain: 1dBi		

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1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 DTS Meas. Guidance

ANSI C63.10:2013

Note:

1. All test items have been performed and record as per the above standards.

1.3 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803 (TAF code 0513)

FCC Registration Numbers are: 509634

1.4 Special Accessories

There are no special accessories used while test was conducted.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through one orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor. Following shows an offset computation example with cable loss 1dB and 10dB attenuator.

$$\text{offset} = \text{RF cable loss (10dB)} + \text{attenuation factor (1.2dB)} = 11.2\text{dB}$$

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2.5 Configuration of Tested System

Fig. 2-1 Conducted Emission Configuration



Fig. 2-2 Radiated Emission Configuration



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	Notebook	Lenovo	L420	LR-7HXZA	Shielded	Un-shielded
2	WLAN Test Software	N/A	N/A	N/A	N/A	N/A

3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	Peak Output Power	Compliant
§15.247(a)(2)	6dB & 99% Emission Bandwidth	Compliant
§15.247(d)	Conducted Band Edge and Spurious Emission	Compliant
§15.247(d)	Radiated Band Edge and Spurious Emission	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.203 §15.247(b)	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

11 channels are provided for 802.11b, 802.11g and 802.11n HT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

7 channels are provided for 802.11n HT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
3	2422 MHz	7	2442 MHz
4	2427 MHz	8	2447 MHz
5	2432 MHz	9	2452 MHz
6	2437 MHz		

4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.

RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11g	1 to 11	1,6,11	OFDM	6

RADIATED EMISSION TEST (ABOVE 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	1
802.11g	1 to 11	1, 6, 11	OFDM	6
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	MCS 0
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	MCS 0

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Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11b/g/n WLAN Transmitter for channel Low, Mid and High, the worst case E2 position was reported.

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	1
802.11g	1 to 11	1, 6, 11	OFDM	6
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	MCS 0
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	MCS 0

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
Peak Output Power	+/- 0.84 dB
6dB Bandwidth	+/- 51.33 Hz
100 KHz Bandwidth Of Frequency Band Edges	+/- 0.84 dB
Peak Power Density	+/- 1.3 dB
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : Vertical)	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : Horizontal)	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6 CONDUCTED EMISSION TEST

6.1 Standard Applicable

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note 1.The lower limit shall apply at the transition frequencies 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

6.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	12/15/2016	12/14/2017
Power Sensor	Anritsu	MA2411B	917032	12/15/2016	12/14/2017
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	03/21/2017	03/20/2018
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018
Coaxial Cable	HU- BER+SUHNE R	SUCOFLEX 102	23670/2	01/05/2017	01/04/2018
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018
Splitter	Agilent	11636B	N/A	01/05/2017	01/04/2018
DC Power Supply	Agilent	E3640A	MY52410006	11/21/2016	11/20/2017
Temperature Chamber	TERCHY	MHG-120LF	911009	05/19/2017	05/18/2018

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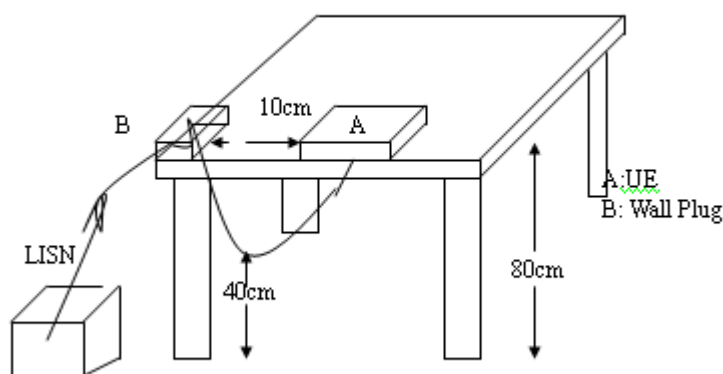
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6.3 EUT Setup

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed

6.6 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode: operation mode

Test By: JJ

Site: Conduction Room

Phase: L1

Temperature: 20 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 58 %

Mode: Operation

Note:

Conducted Emission

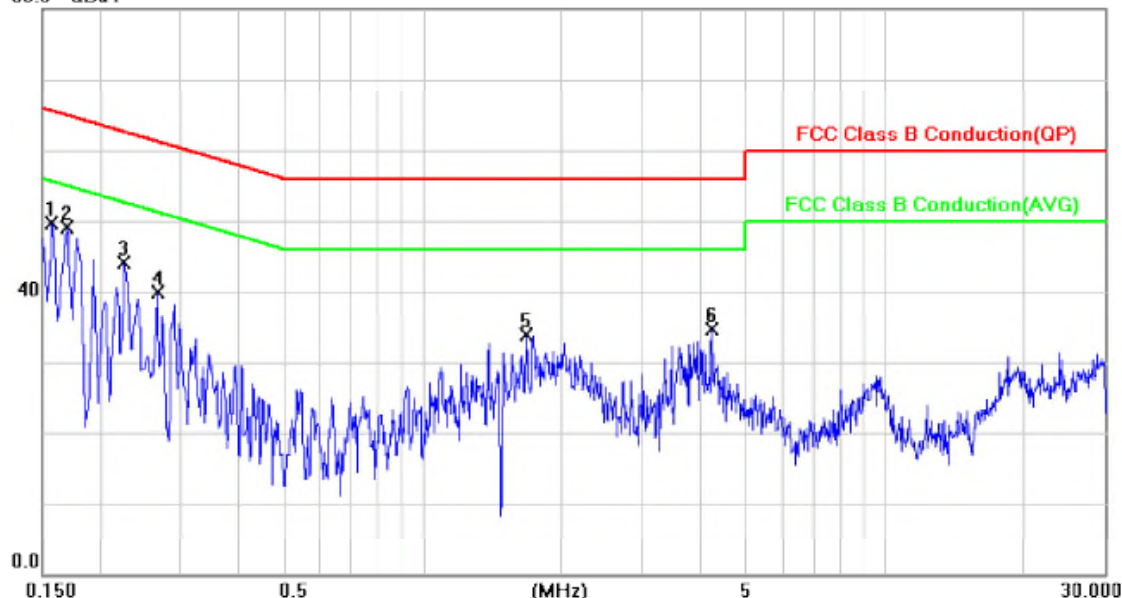
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Data :#2

Date: 2017/7/27

Time: 上午 01:00:36

80.0 dBuV



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1580	49.72	0.07	49.79	65.57	-15.78	peak	
2	*	0.1700	49.12	0.07	49.19	64.96	-15.77	peak	
3		0.2260	44.05	0.07	44.12	62.60	-18.48	peak	
4		0.2660	39.92	0.07	39.99	61.24	-21.25	peak	
5		1.6780	33.83	0.10	33.93	56.00	-22.07	peak	
6		4.2260	34.46	0.21	34.67	56.00	-21.33	peak	

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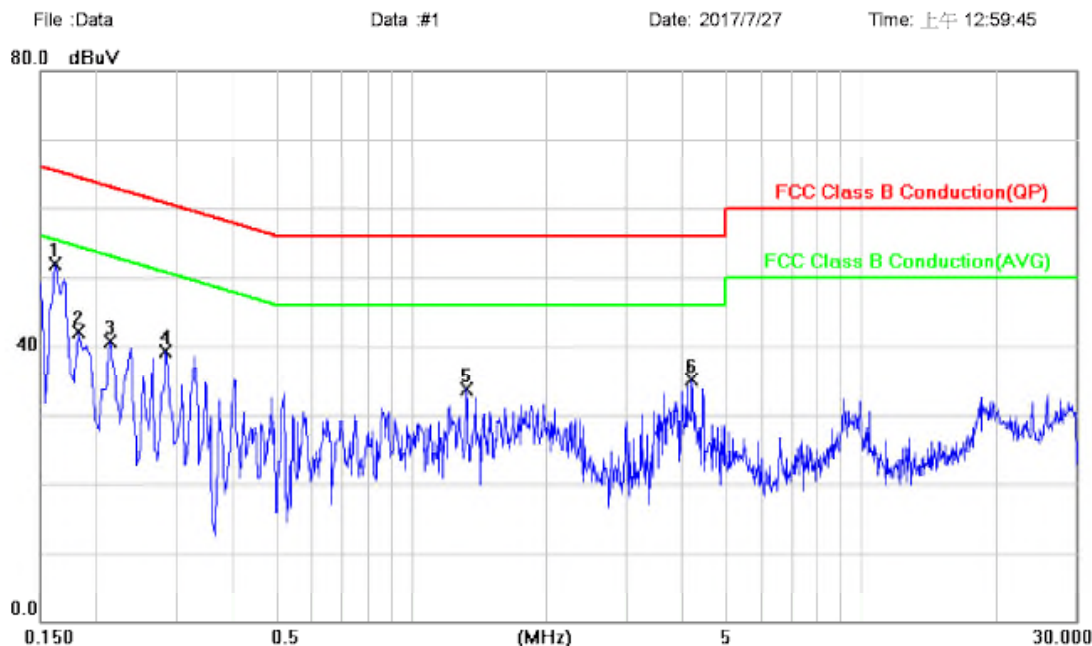
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Site: Conduction Room Phase: **N** Temperature: 20 °C
Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 58 %
Mode: Operation
Note

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1 *		0.1620	51.93	0.07	52.00	65.36	-13.36	peak	
2		0.1820	42.11	0.07	42.18	64.39	-22.21	peak	
3		0.2140	40.73	0.07	40.80	63.05	-22.25	peak	
4		0.2860	39.15	0.07	39.22	60.64	-21.42	peak	
5		1.3300	33.63	0.10	33.73	56.00	-22.27	peak	
6		4.2220	34.83	0.21	35.04	56.00	-20.96	peak	

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7 DUTY CYCLE OF TEST SIGNAL

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

Formula:

$$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff})$$

Measurement Procedure:

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

Duty Cycle:

	Duty Cycle (%)	Duty Factor (dB)
802.11b	99.50	0.02
802.11g	97.25	0.12
802.11n_20	97.00	0.13
802.11n_40	94.09	0.26

$$\text{Duty Cycle Factor: } 10 * \log(1/0.995) = 0.02$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9725) = 0.12$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.97) = 0.13$$

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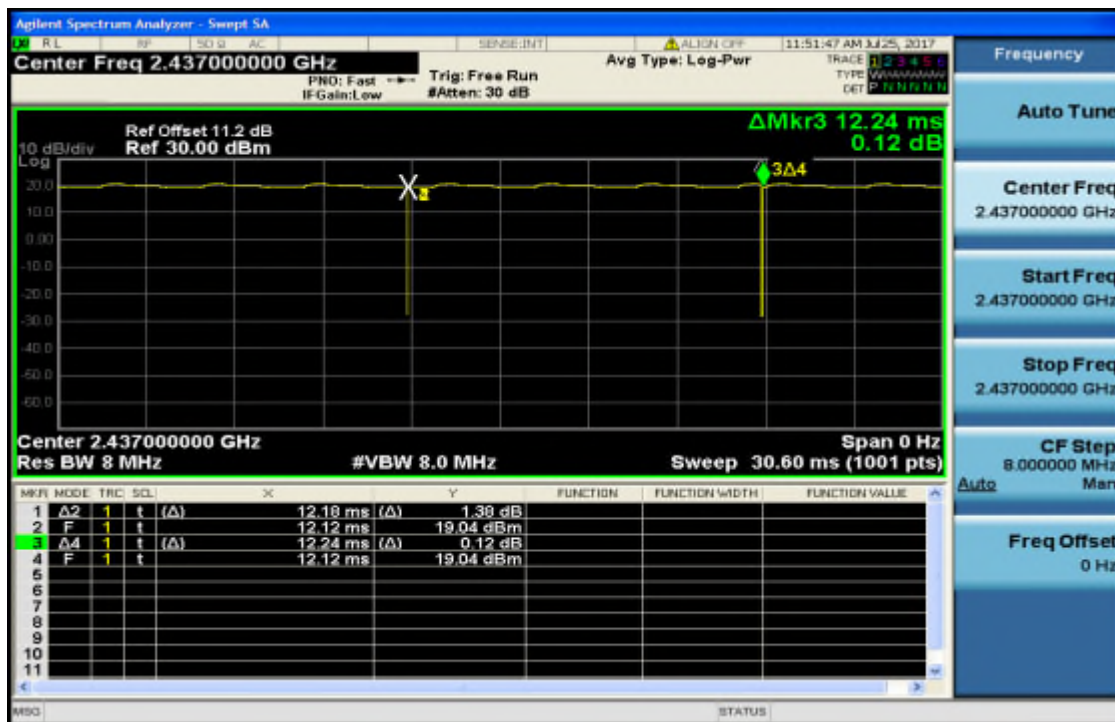
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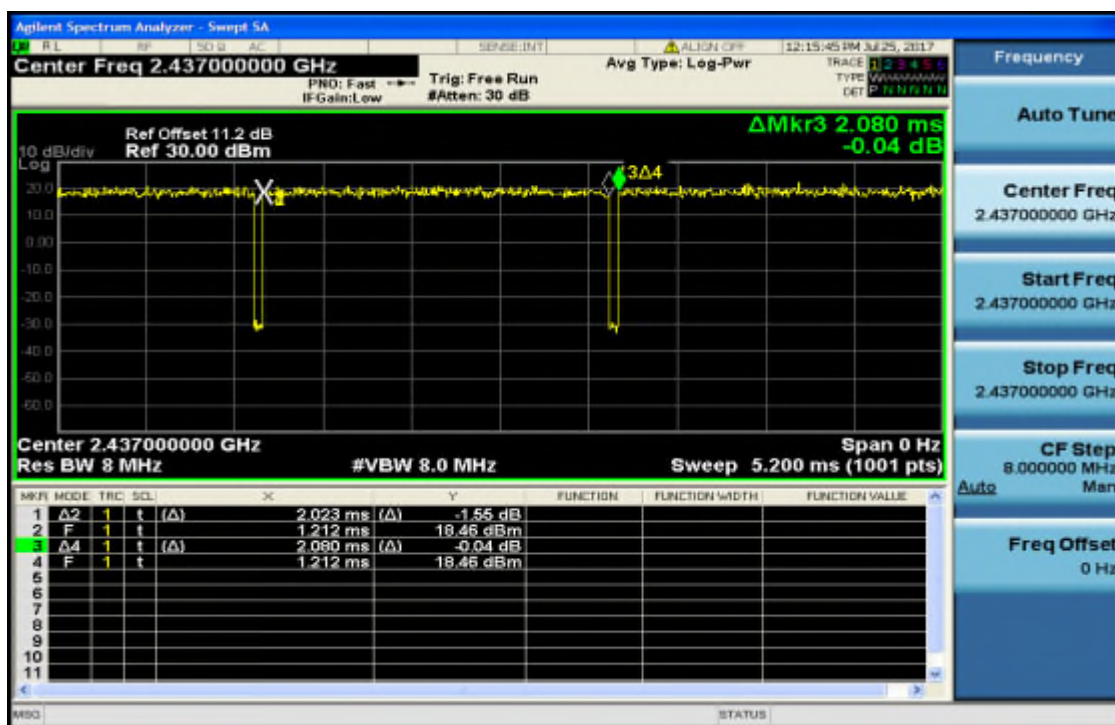
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7.1 DUTY CYCLE TEST SIGNAL Measurement Result

802.11 b



802.11 g



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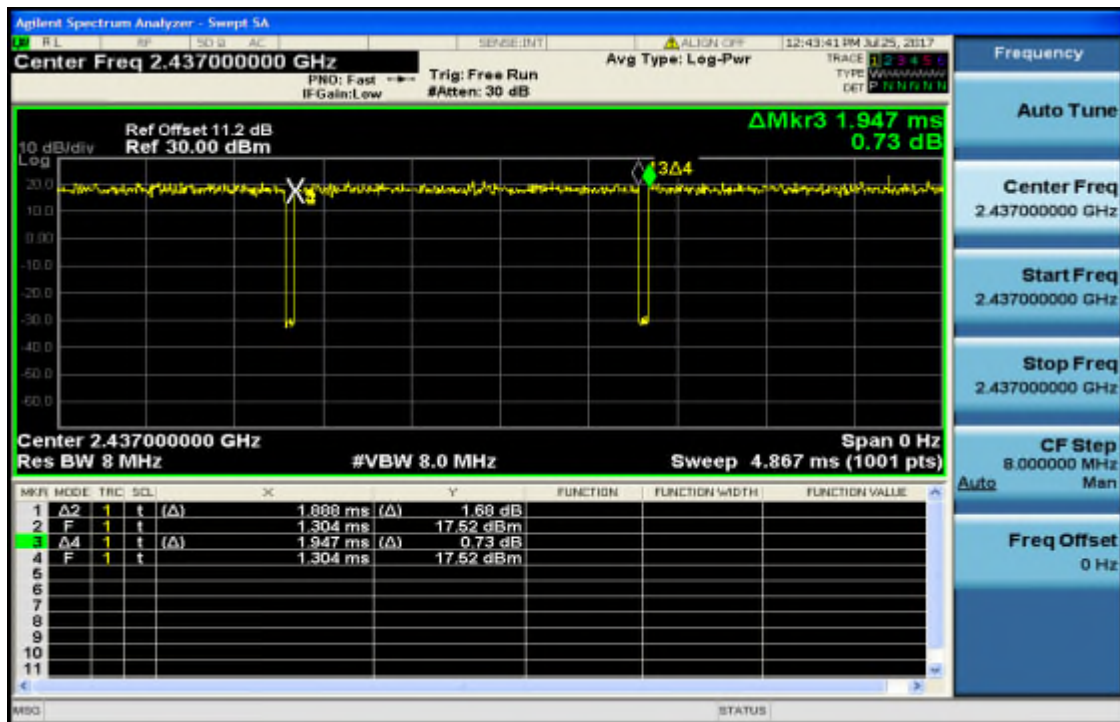
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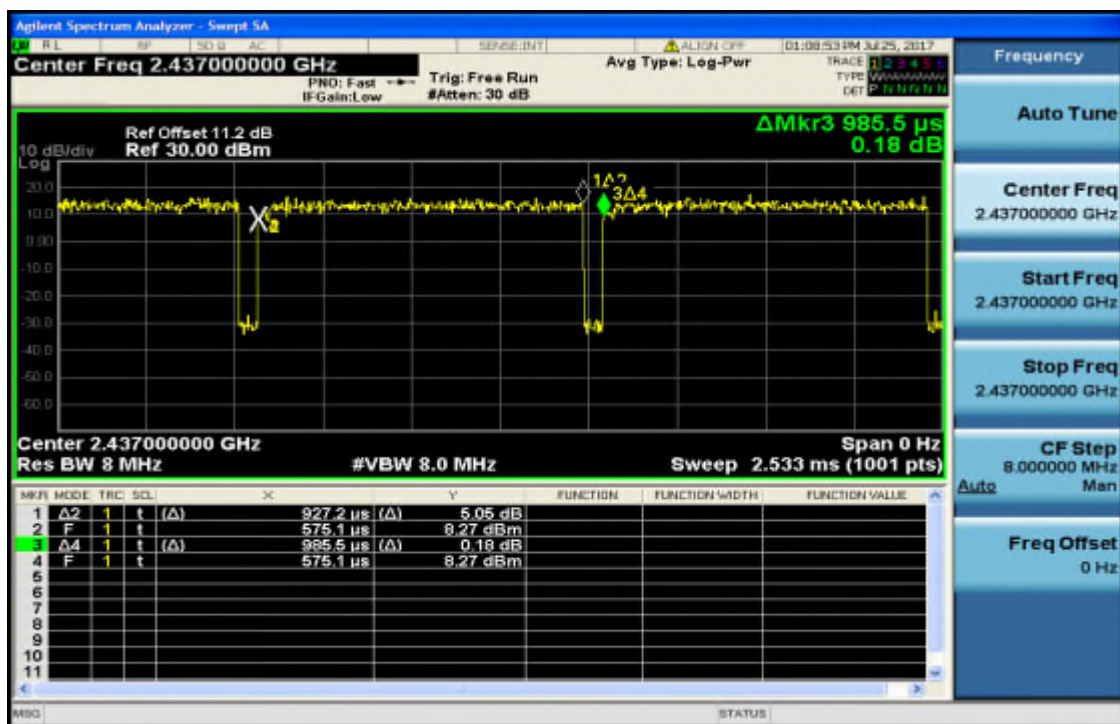
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802.11 n_20 MHz



802.11 n_40 MHz



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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

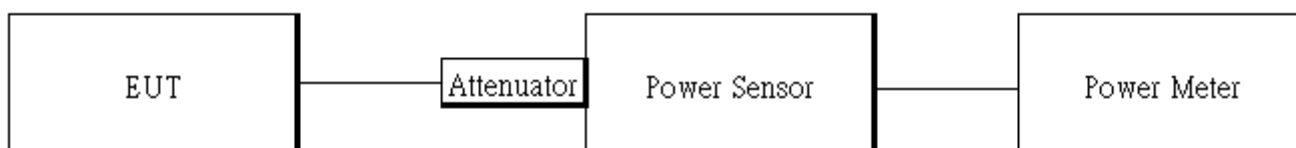
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

8.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	12/15/2016	12/14/2017
Power Sensor	Anritsu	MA2411B	917032	12/15/2016	12/14/2017
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	03/21/2017	03/20/2018
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/05/2017	01/04/2018
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018
Splitter	Agilent	11636B	N/A	01/05/2017	01/04/2018
DC Power Supply	Agilent	E3640A	MY52410006	11/21/2016	11/20/2017
Temperature Chamber	TERCHY	MHG-120LF	911009	05/19/2017	05/18/2018

8.3 Test Set-up

Power Meter:



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8.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

4. Record the max. Reading as observed from Spectrum or Power Meter.

8.5 Measurement Result

802.11b Main					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit	RESULT
1	2412	1	19.12	1 Watt = 30.00 dBm	PASS
6	2437	1	19.71	1 Watt = 30.00 dBm	PASS
11	2462	1	19.01	1 Watt = 30.00 dBm	PASS
802.11b Main					
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Limit	RESULT
1	2412	1	16.12	1 Watt = 30.00 dBm	PASS
6	2437	1	17.71	1 Watt = 30.00 dBm	PASS
11	2462	1	15.89	1 Watt = 30.00 dBm	PASS

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802.11g Main					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit	RESULT
1	2412	6	19.84	1 Watt = 30.00 dBm	PASS
6	2437	6	21.54	1 Watt = 30.00 dBm	PASS
11	2462	6	19.81	1 Watt = 30.00 dBm	PASS
802.11g Main					
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Limit	RESULT
1	2412	6	14.70	1 Watt = 30.00 dBm	PASS
6	2437	6	17.79	1 Watt = 30.00 dBm	PASS
11	2462	6	13.99	1 Watt = 30.00 dBm	PASS

802.11n_HT20M Main					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit	RESULT
1	2412	MCS0	18.53	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	21.46	1 Watt = 30.00 dBm	PASS
11	2462	MCS0	19.34	1 Watt = 30.00 dBm	PASS
802.11n_HT20M Main					
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Limit	RESULT
1	2412	MCS0	12.89	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	17.76	1 Watt = 30.00 dBm	PASS
11	2462	MCS0	12.35	1 Watt = 30.00 dBm	PASS

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802.11n_HT40M Main					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit	RESULT
3	2422	MCS0	15.37	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	19.72	1 Watt = 30.00 dBm	PASS
9	2452	MCS0	15.89	1 Watt = 30.00 dBm	PASS
802.11n_HT40M Main					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit	RESULT
3	2422	MCS0	9.56	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	15.93	1 Watt = 30.00 dBm	PASS
9	2452	MCS0	9.35	1 Watt = 30.00 dBm	PASS

Note:

offset 11.20 dB for SISO mode

*** Note: The duty cycle factor is compensated to obtain the maximum value of measurement in average.**

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9 6DB BANDWIDTH MEASUREMENT

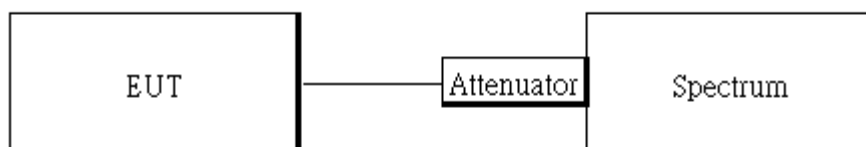
9.1 Standard Applicable

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

9.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	03/21/2017	03/20/2018
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/05/2017	01/04/2018
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018

9.3 Test Set-up



9.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. For 6dB Bandwidth:
Set the spectrum analyzer as RBW = 100 kHz, VBW = 3*RBW, Span = 30M/50MHz, Detector=peak, Sweep=auto.
5. Mark the peak frequency and -6dB (upper and lower) frequency.
6. For 99% Bandwidth:
Set the spectrum analyzer as RBW=1%, VBW = 3*RBW, Span = 30M/50MHz, Detector=Sample, Sweep=auto.
7. Turn on the 99% bandwidth function, max reading.
8. Repeat above procedures until all frequency of interest measured was complete.

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9.5 Measurement Result

6dB Bandwidth

802.11b Main				802.11g Main			
Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result	Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	9067	> 500	PASS	2412	16350	> 500	PASS
2437	9061	> 500	PASS	2437	16360	> 500	PASS
2462	8594	> 500	PASS	2462	16360	> 500	PASS

802.11n HT20 Main				802.11n HT40 Main			
Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result	Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17550	> 500	PASS	2422	35130	> 500	PASS
2437	17570	> 500	PASS	2437	35140	> 500	PASS
2462	17330	> 500	PASS	2452	35120	> 500	PASS

**Refer to next page for plots*

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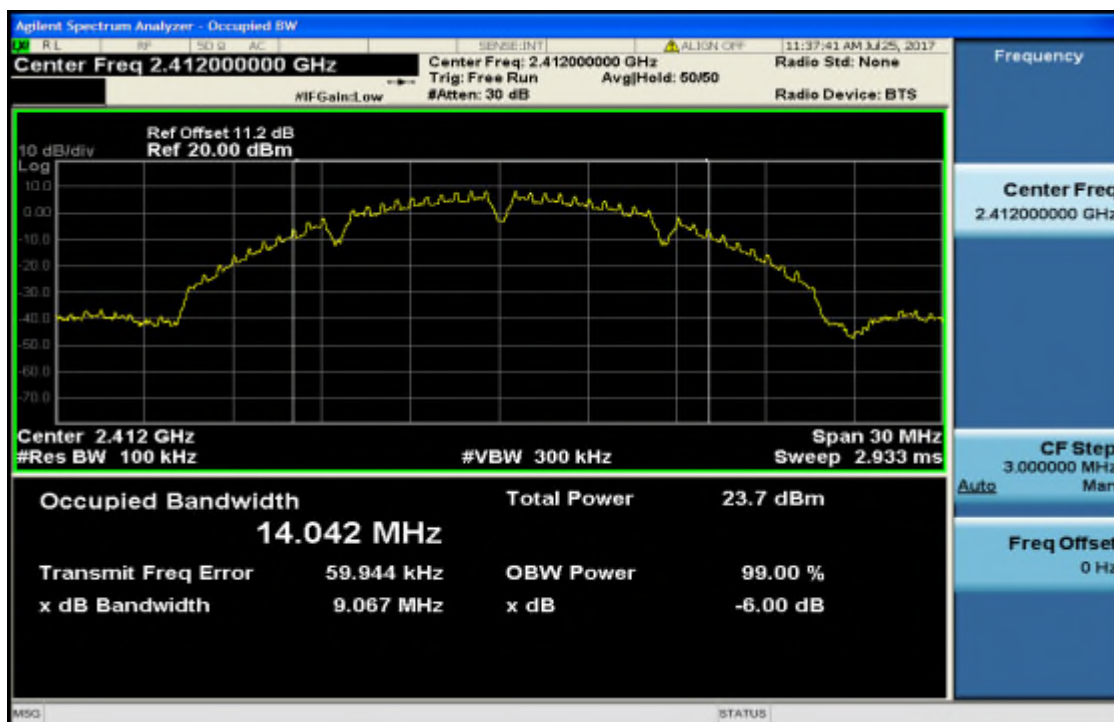
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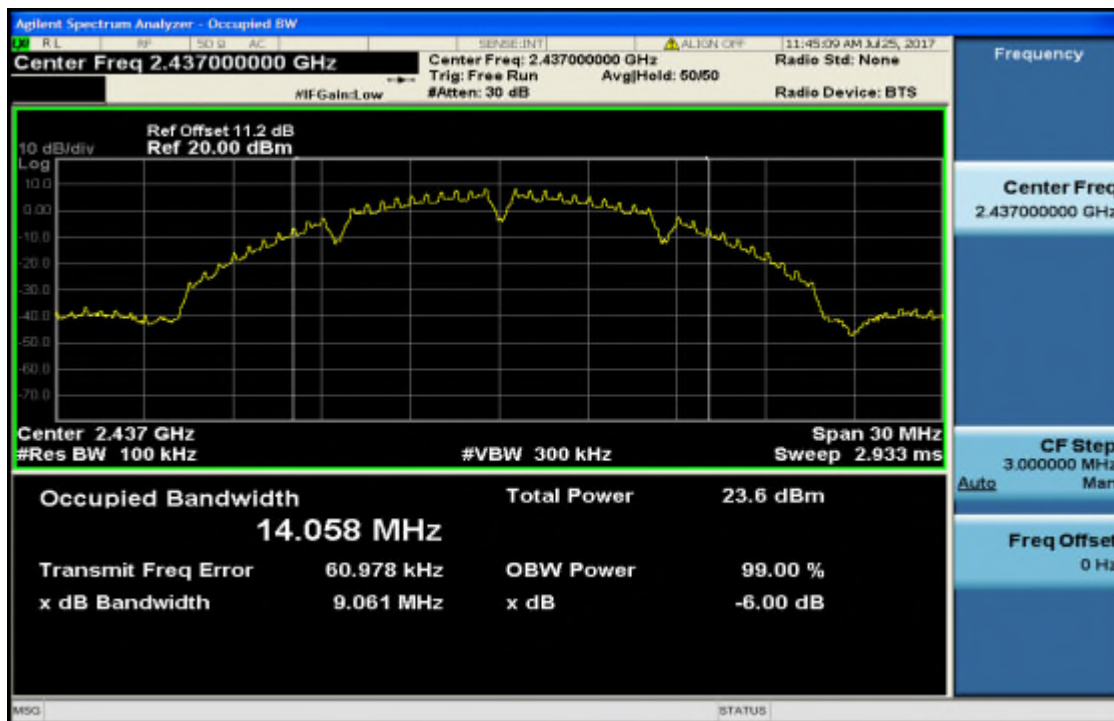
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802.11b

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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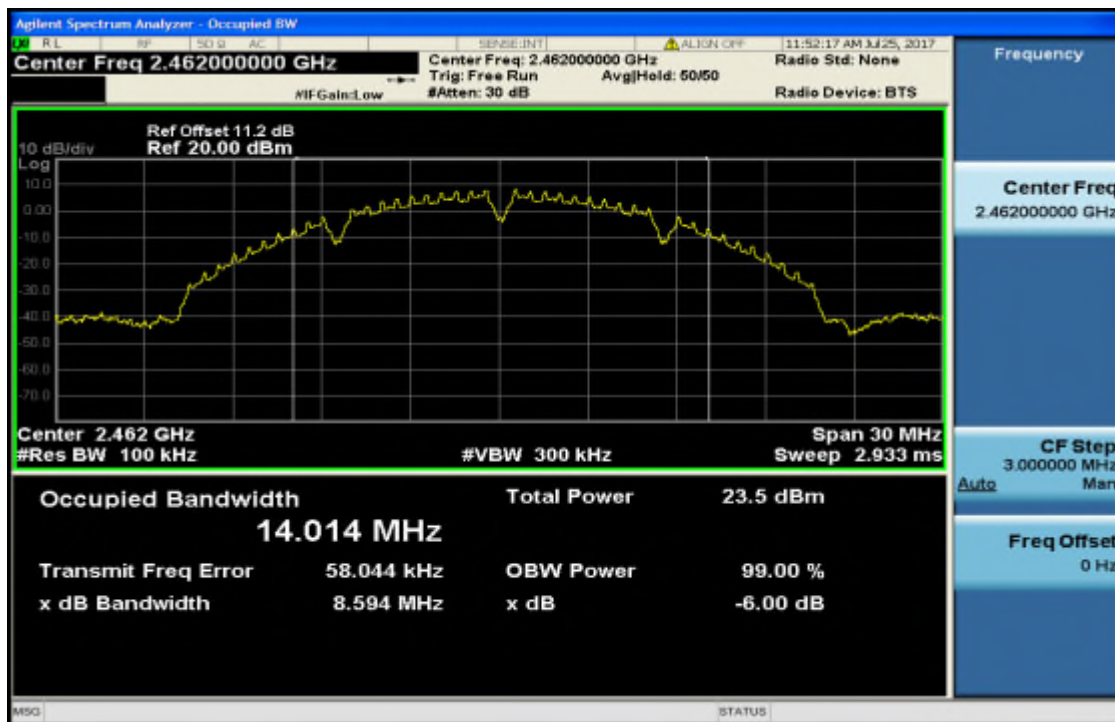
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6dB Band Width Test Data CH-High



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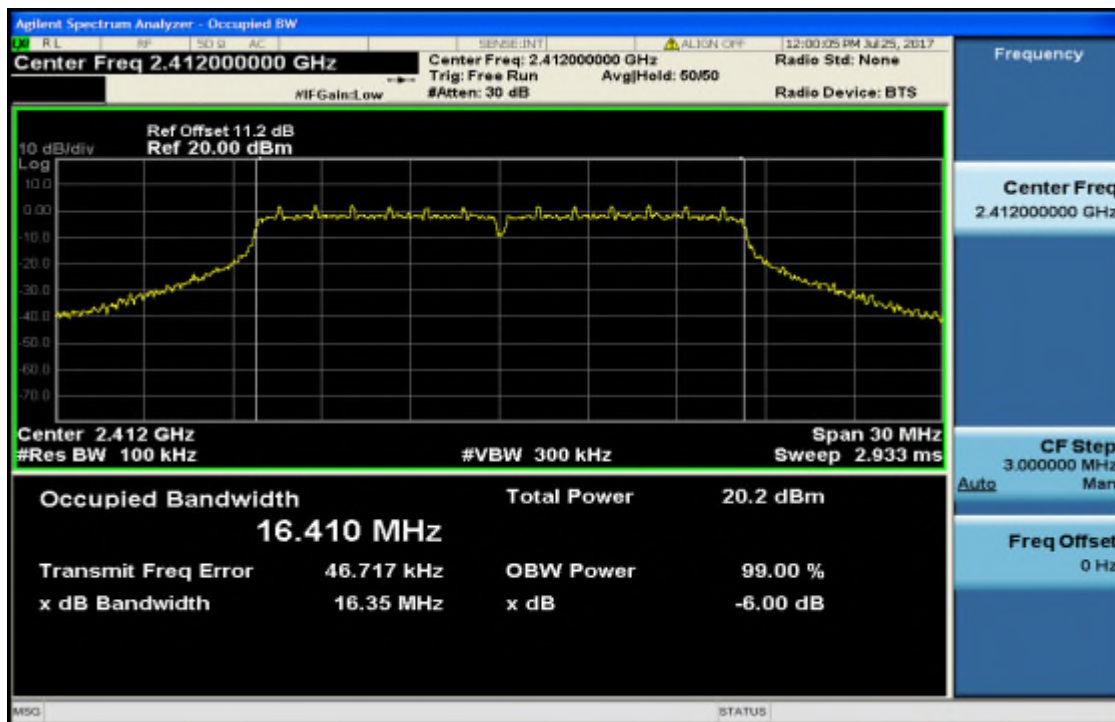
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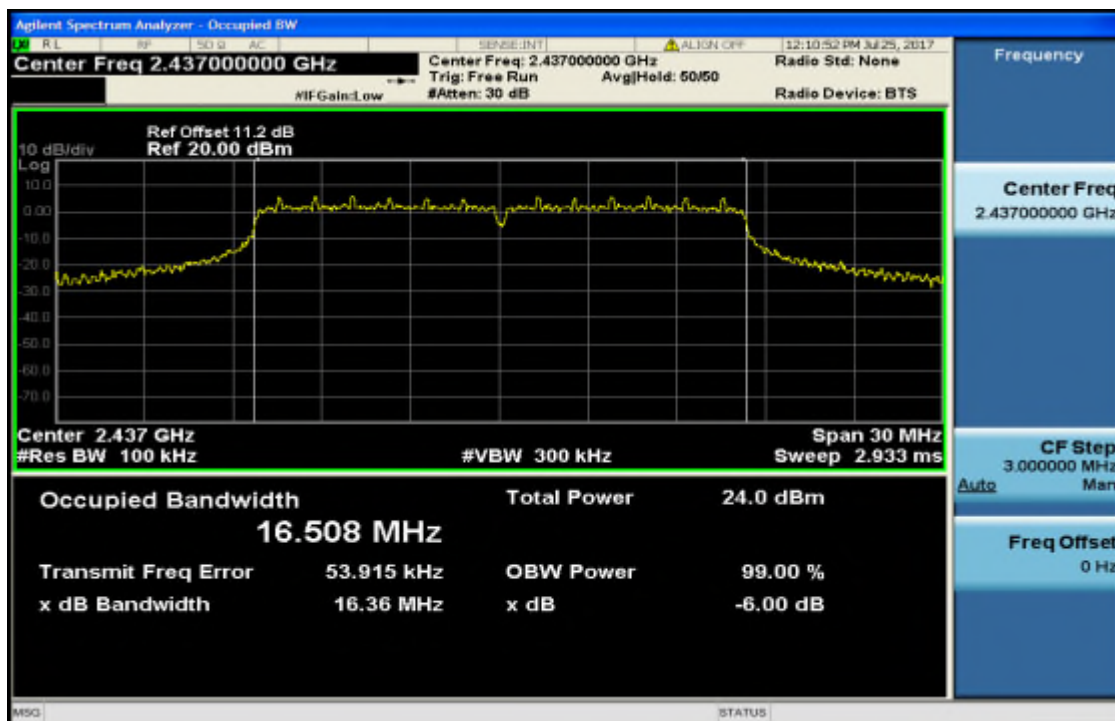
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802.11g

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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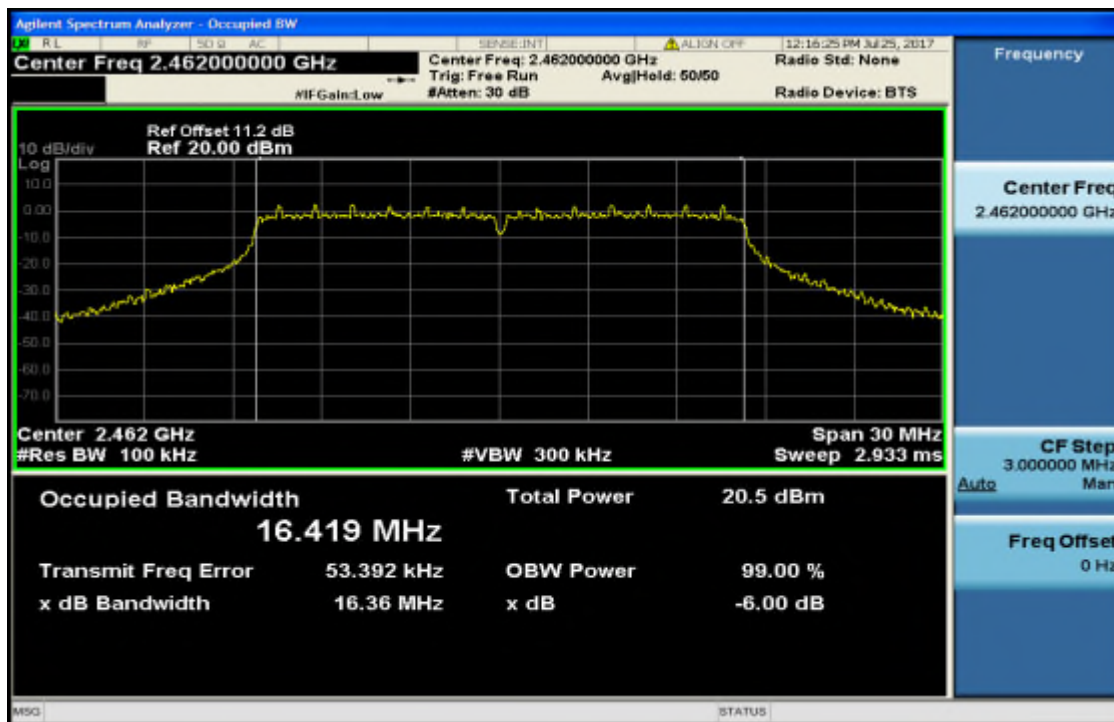
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6dB Band Width Test Data CH-High



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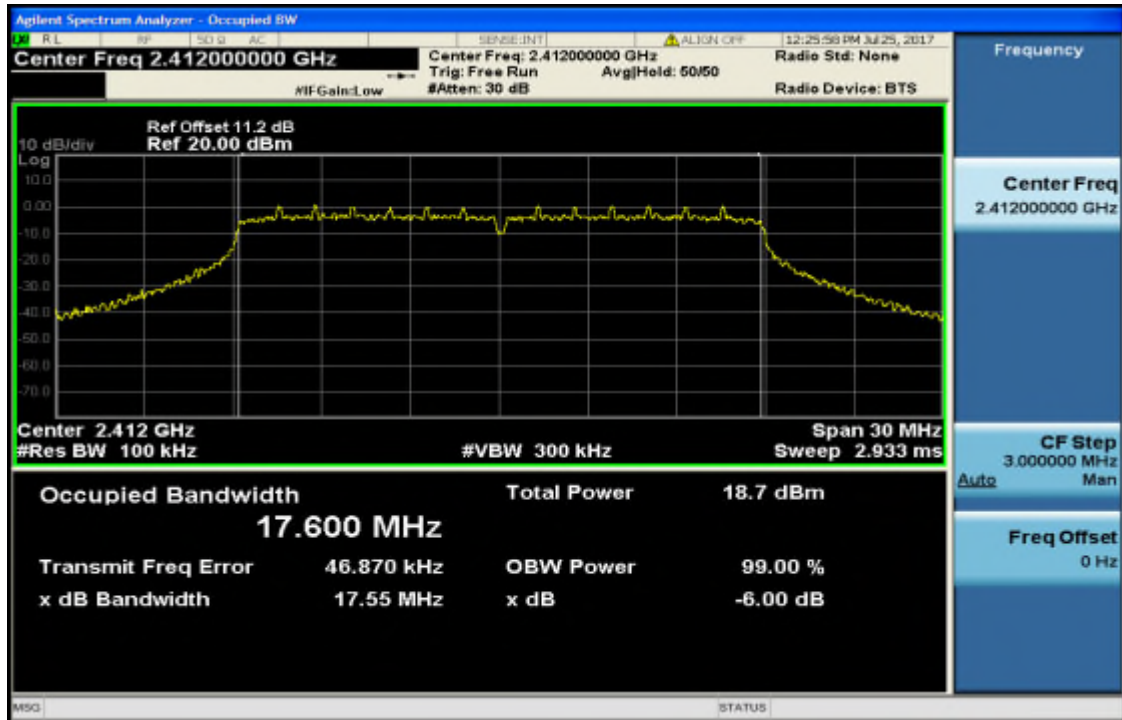
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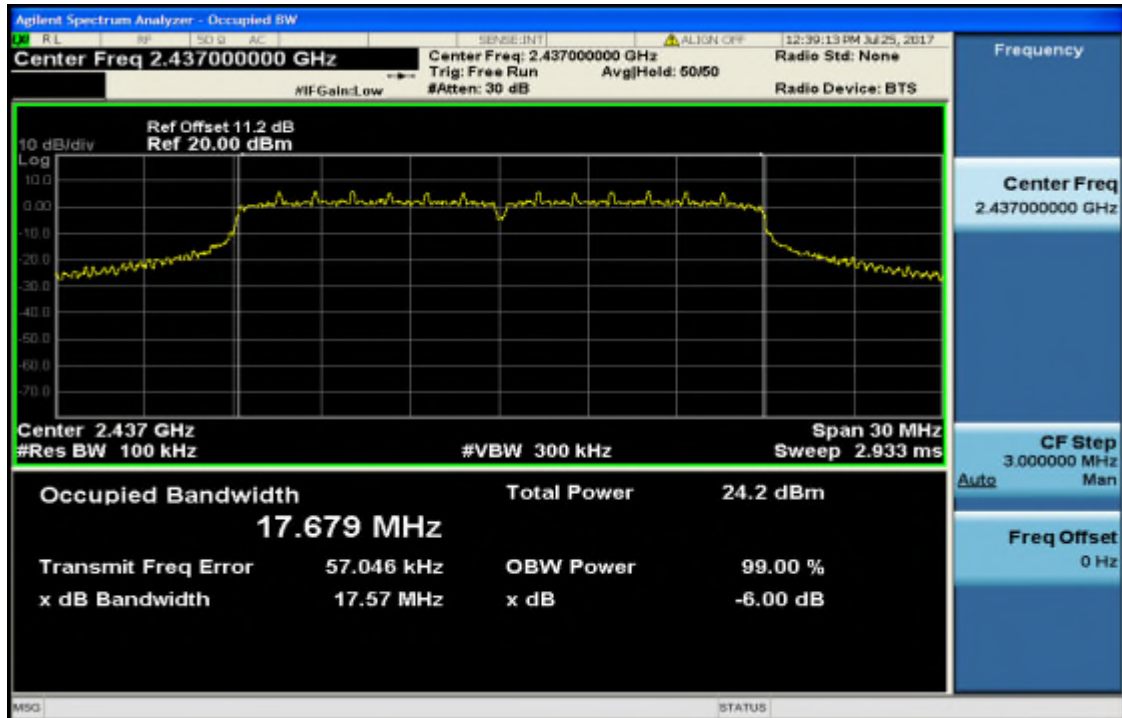
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802.11n_HT20M

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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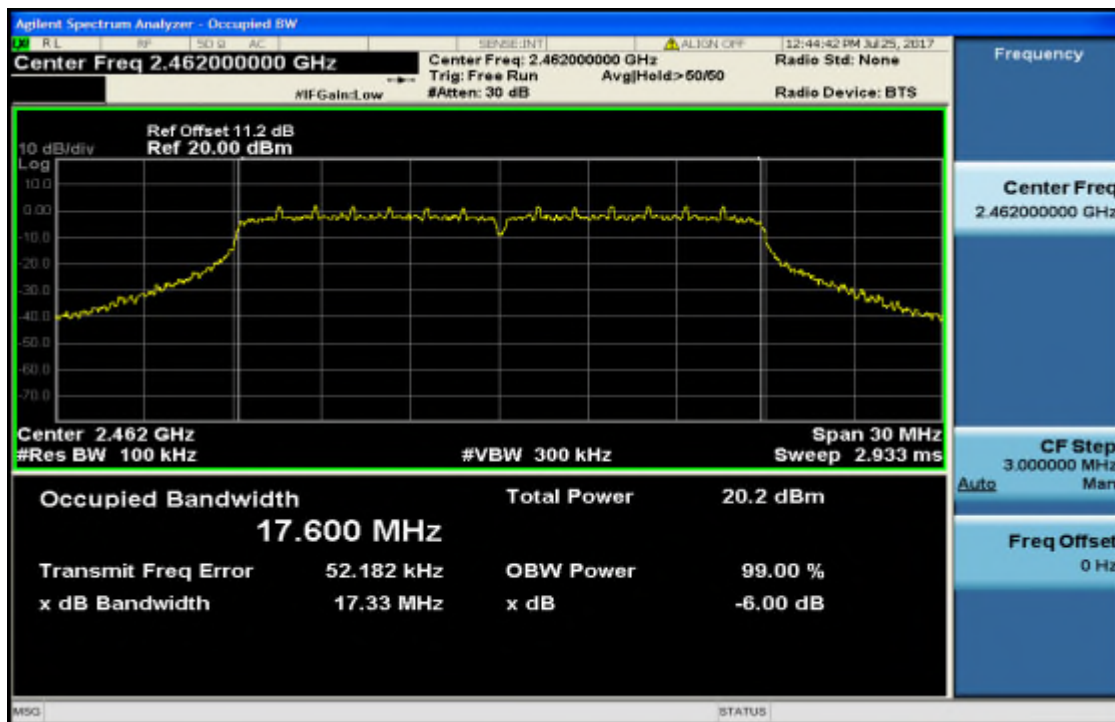
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6dB Band Width Test Data CH-High



802.11n_HT40M

6dB Band Width Test Data CH-Low



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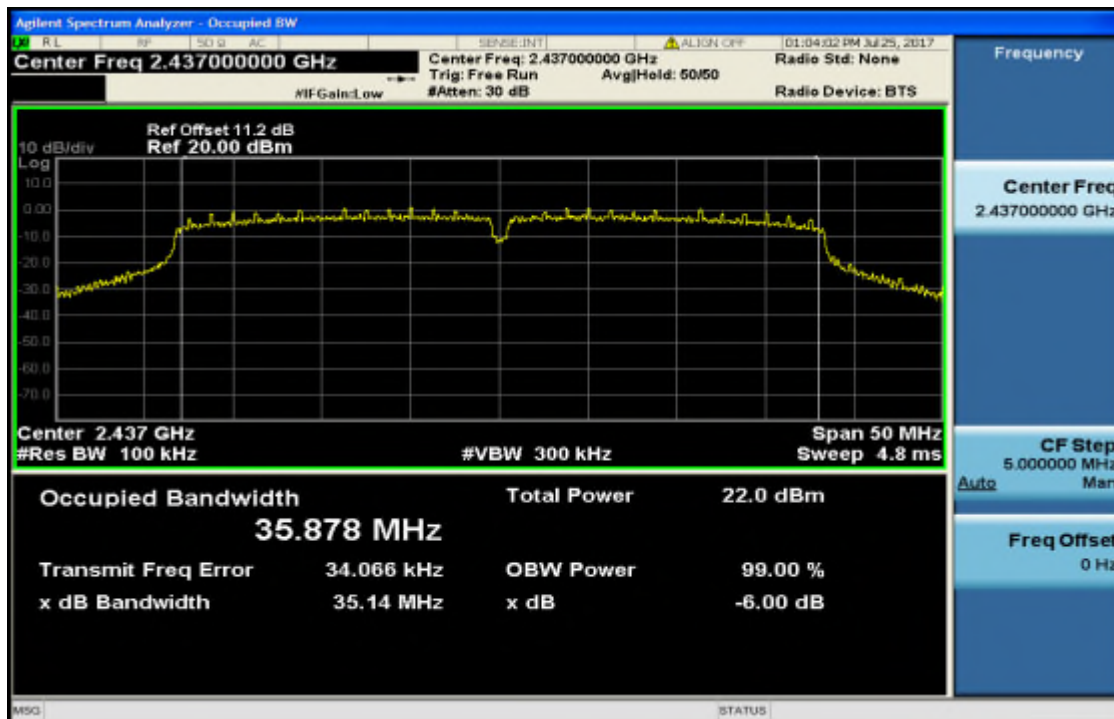
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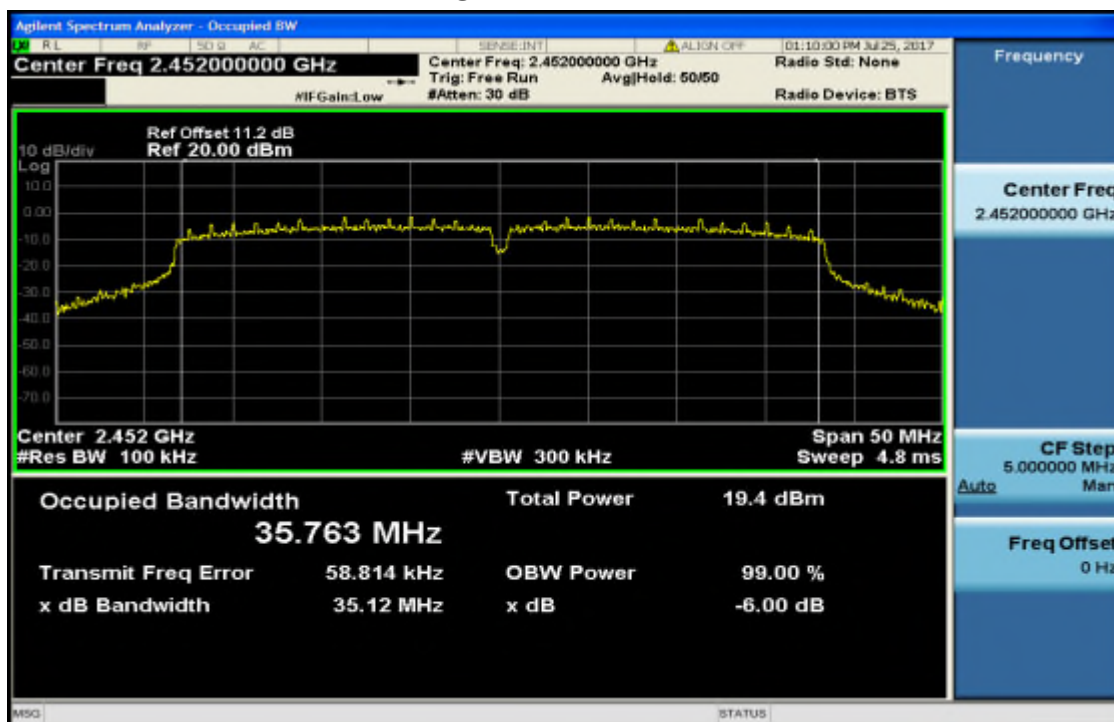
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

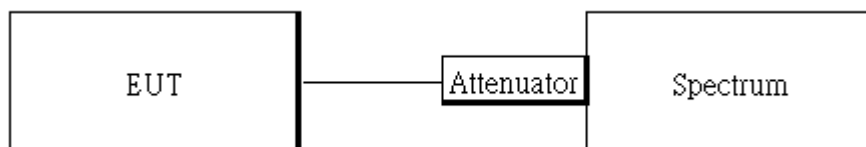
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

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.

10.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	03/21/2017	03/20/2018
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/05/2017	01/04/2018
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018

10.3 Test SET-UP



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10.4 Measurement Procedure

Band Edge Limit Calculation:

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 100kHz & VBW = 300 kHz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

Conducted Band Edge:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
6. Mark the highest reading of the emission as the reference level measurement.
7. Set DL as the limit = reading on marker 1 – 20dBm
8. Marker on frequency, 2.3999GHz and 2.4836GHz, and examine shall 100 kHz immediately outside the authorized (2400~2483.5) be attenuated by 20dB at least relative to the maximum emission of power.
9. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set RBW = 100 kHz & VBW= 300 kHz, Detector =Peak, Sweep = Auto.
4. Allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Repeat above procedures until all default test channel measured were complete.

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10.5 Measurement Result

Bandedge Limit 802.11b MODE				Bandedge Limit 802.11g MODE			
Freq. (MHz)	PSD (dBm)	Offset	Bandedge Limit (dBm)	Freq. (MHz)	PSD (dBm)	Offset	Bandedge Limit (dBm)
2412	8.04	11.20	-11.96	2412	1.93	11.20	-18.07
2462	7.88	11.20	-12.12	2462	2.21	11.20	-17.79

Bandedge Limit 802.11n20 MODE				Bandedge Limit 802.11n40 MODE			
Freq. (MHz)	PSD (dBm)	Offset	Bandedge Limit (dBm)	Freq. (MHz)	PSD (dBm)	Offset	Bandedge Limit (dBm)
2412	0.66	11.20	-19.34	2422	-3.3	11.20	-23.30
2462	1.86	11.20	-18.14	2452	-1.7	11.20	-21.70

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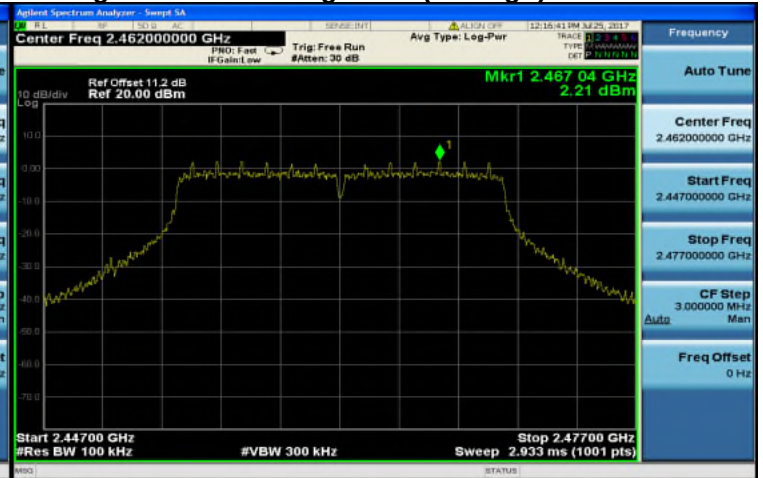
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802.11b PSD for Band edge Limit (CH-Low)



802.11g PSD for Bandedge Limit(CH-High)



802.11b PSD for Bandedge Limit(CH-High)



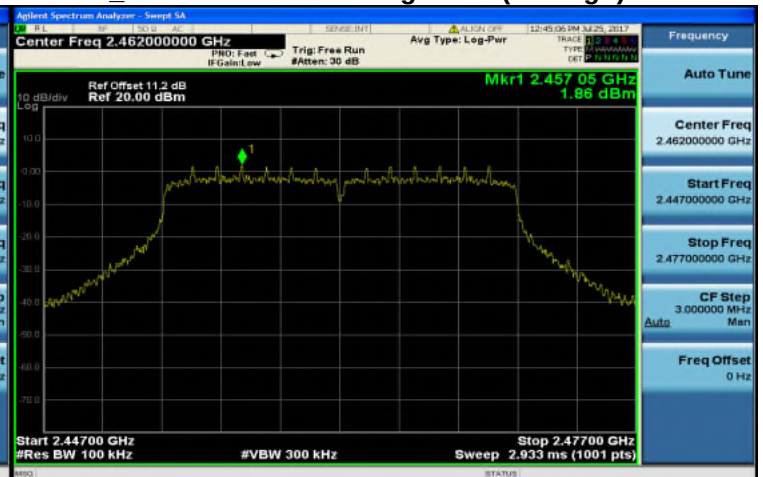
802.11n HT20 PSD for Bandedge Limit(CH-Low)



802.11g PSD for Bandedge Limit(CH-Low)



802.11n HT20 PSD for Bandedge Limit(CH-High)



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802.11 HT40 PSD for Band edge Limit (CH-Low)



802.11 HT40 PSD for Bandedge Limit(CH-High)



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802.11b Band Edges Test Data CH-Low



802.11g Band Edges Test Data CH-Low



Band Edges Test Data CH-High



Band Edges Test Data CH-High



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802.11n_HT20 Band Edges Test Data CH-Low



802.11n_HT40 Band Edges Test Data CH-Low



Band Edges Test Data CH-High



Band Edges Test Data CH-High



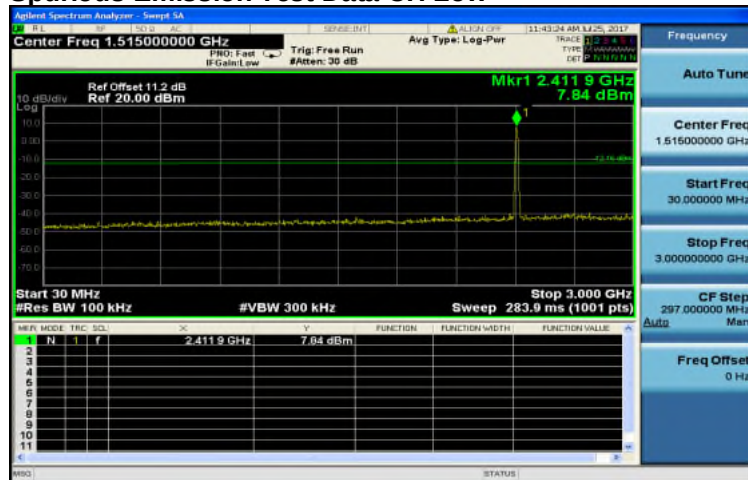
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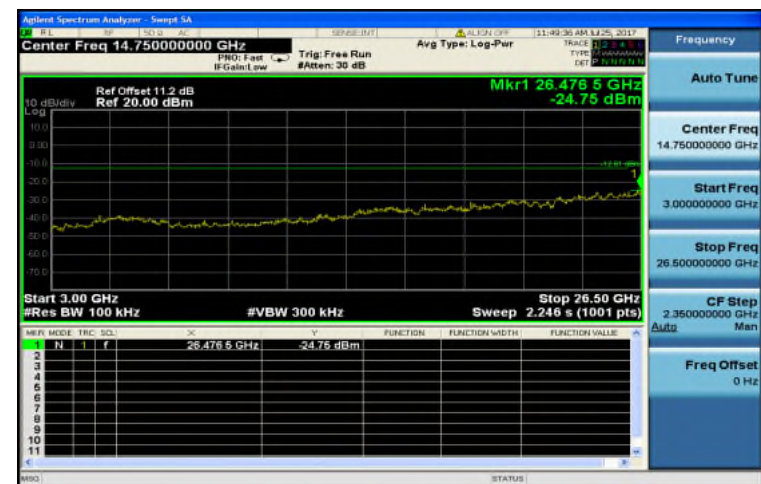
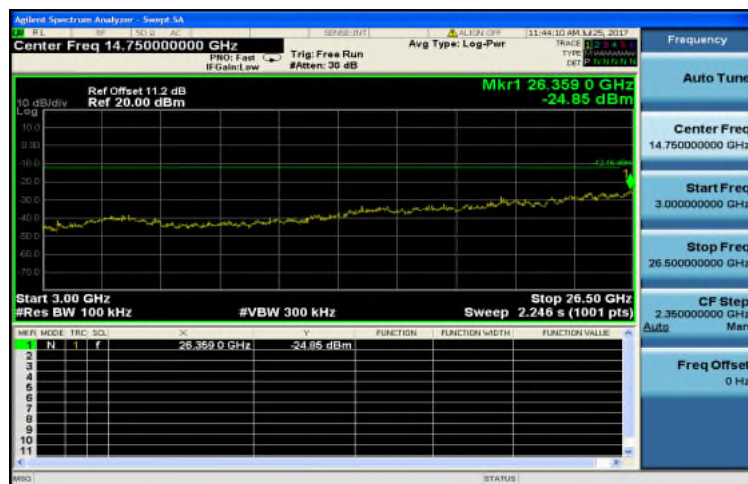
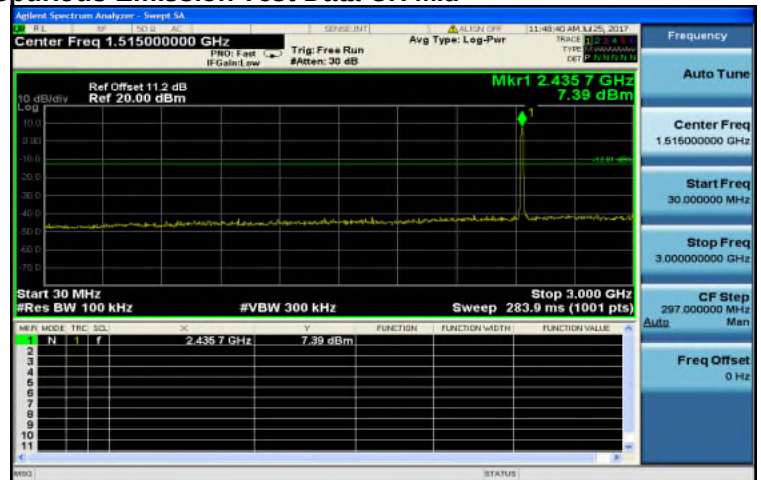
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802.11b

Spurious Emission Test Data CH-Low



Spurious Emission Test Data CH-Mid



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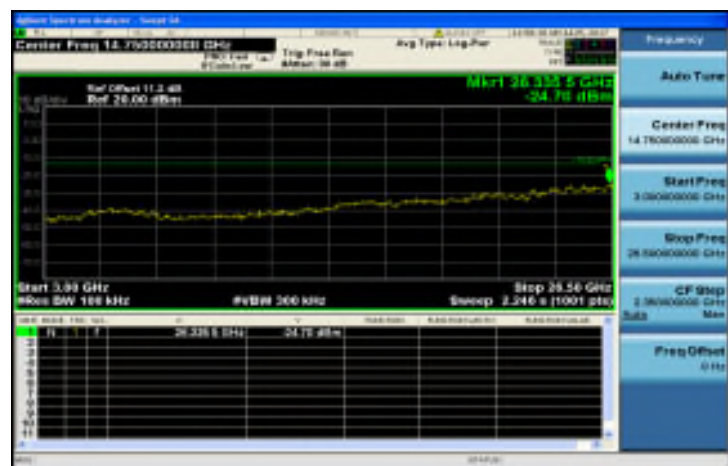
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Spurious Emission Test Data CH-High



802.11g

Spurious Emission Test Data CH-Low



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Spurious Emission Test Data CH-Mid



Spurious Emission Test Data CH-High



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802.11n_HT20

Spurious Emission Test Data CH-Low



Spurious Emission Test Data CH-Mid



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802.11n_HT40

Spurious Emission Test Data CH-High



Spurious Emission Test Data CH-Low



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Spurious Emission Test Data CH-Mid



Spurious Emission Test Data CH-High



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 Standard Applicable

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. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 limit as below.

And according to §15.33(a) (1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBμV/m) = 20 log Emission level (dBμV/m)

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11.2 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100760	05/11/2017	05/10/2018
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/25/2017	04/24/2018
Loop Antenna	ETS-Lindgren	6502	148045	09/20/2016	09/19/2017
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/19/2016	12/18/2017
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/04/2017	08/03/2018
Pre-Amplifier	Agilent	8447D	2944A07676	01/03/2017	01/02/2018
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/03/2017	01/02/2018
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	60776	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_RX	9	01/05/2017	01/04/2018
3m Site NSA	SGS	966 chamber	N/A	07/01/2017	06/30/2018
Low Loss Cable	Huber Suhner	966 TX	1	01/05/2017	01/04/2018
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2016	12/11/2017
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/05/2017	01/04/2018

NOTE: N.C.R refers to Not Calibrated Required.

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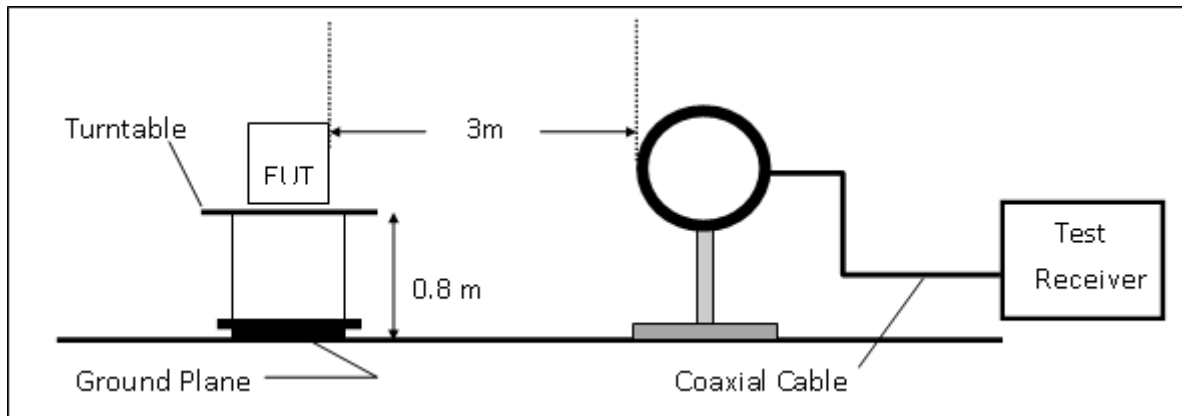
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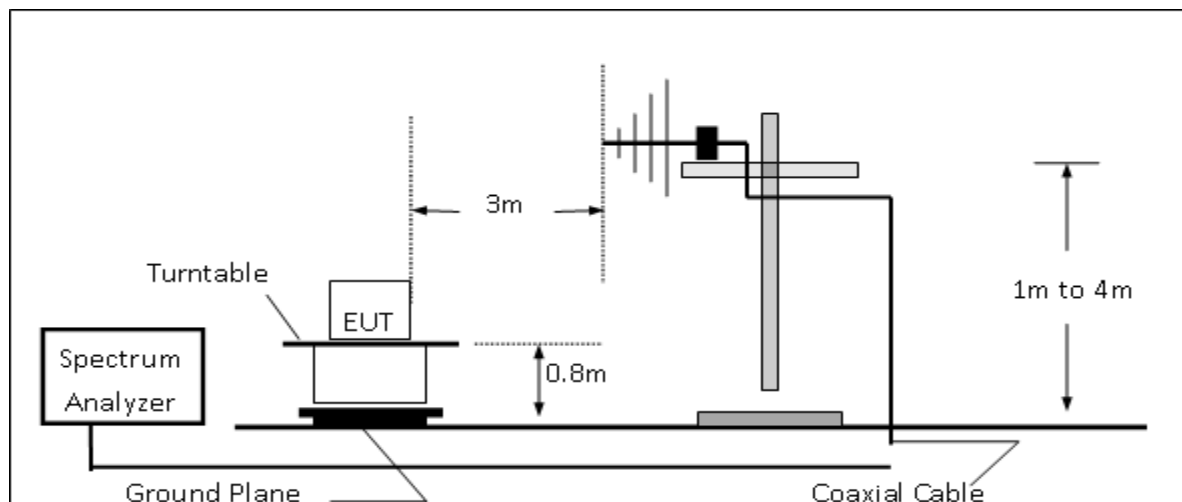
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11.3 Test SET-UP

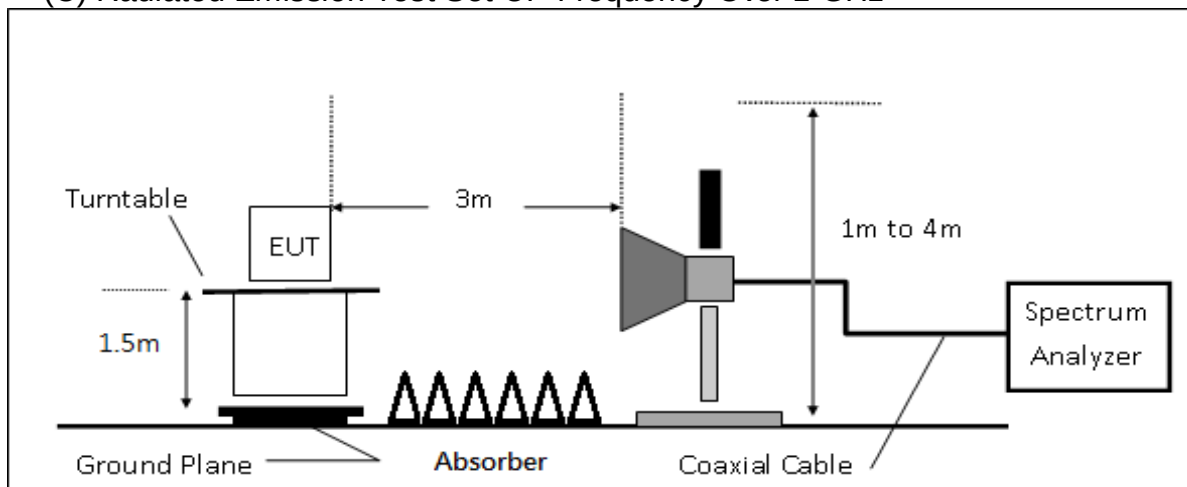
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-UP, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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11.4 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
9. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
12. Repeat above procedures until all default test channel measured were complete.

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11.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note :

“F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

11.6 Test Results of Radiated Spurious Emissions form 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

11.7 Measurement Result

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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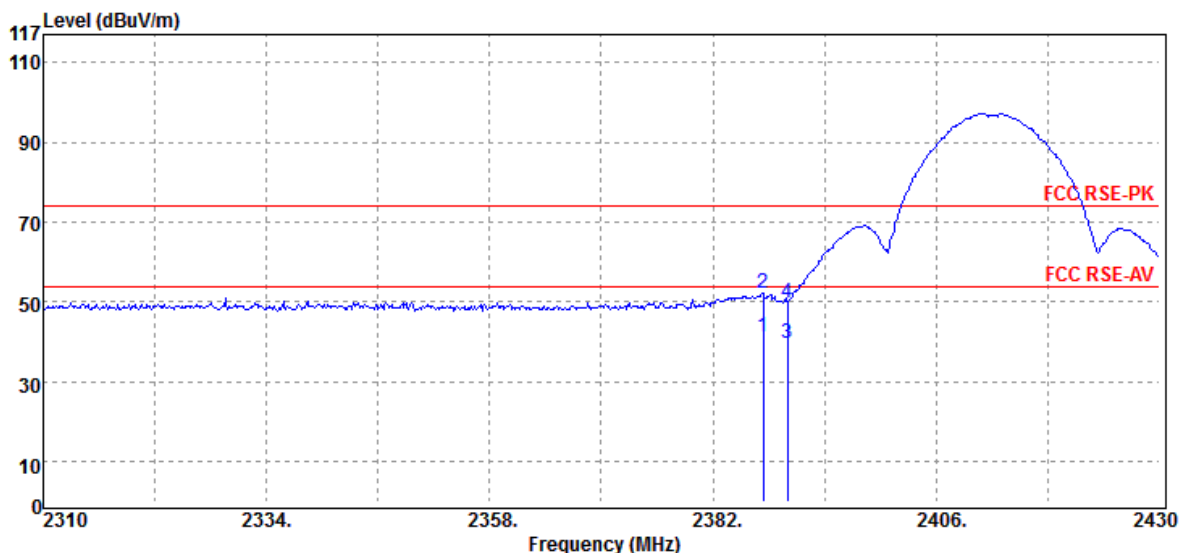
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Radiated Band Edge Measurement Result (802.11b)

Operation Band :802.11b
Fundamental Frequency :2412 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :E2 Plane

Test Date :2017-06-19
Temp./Humi. :21 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2387.40	S	Average	43.03	-1.73	41.30	54.00	-12.70
2387.40	S	Peak	53.88	-1.73	52.15	74.00	-21.85
2390.00	E	Average	41.51	-1.74	39.77	54.00	-14.23
2390.00	E	Peak	51.46	-1.74	49.72	74.00	-24.28

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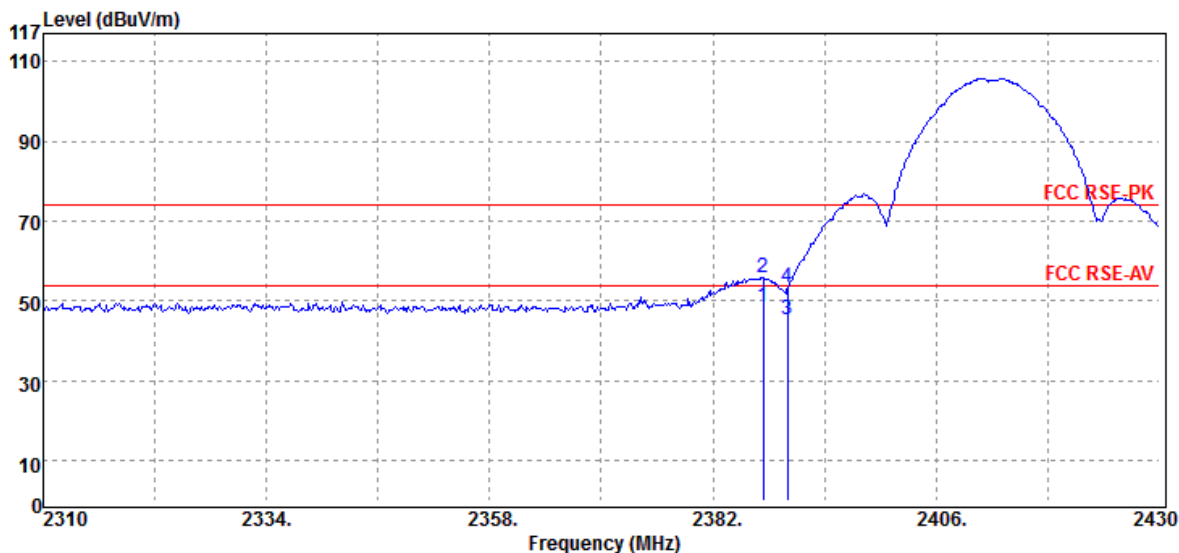
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Operation Band :802.11b
Fundamental Frequency :2412 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :E2 Plane

Test Date :2017-06-19
Temp./Humi. :21 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2387.40	S	Average	50.20	-1.73	48.47	54.00	-5.53
2387.40	S	Peak	57.41	-1.73	55.68	74.00	-18.32
2390.00	E	Average	47.16	-1.74	45.42	54.00	-8.58
2390.00	E	Peak	55.18	-1.74	53.44	74.00	-20.56

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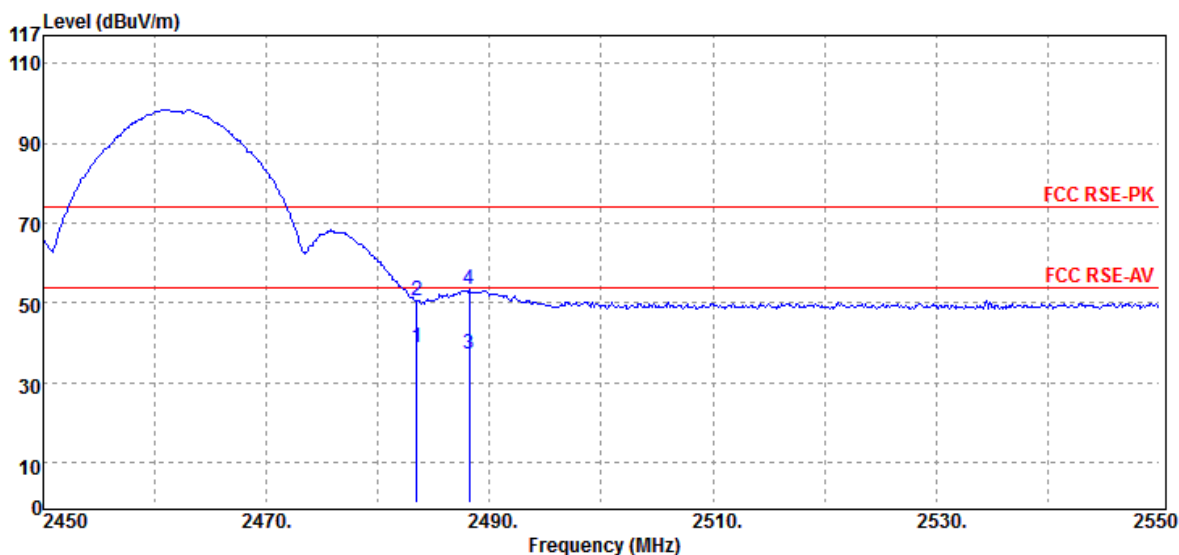
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Operation Band :802.11b
Fundamental Frequency :2462 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :E2 Plane

Test Date :2017-06-22
Temp./Humi. :21 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Average	40.64	-1.62	39.02	54.00	-14.98
2483.50	E	Peak	52.15	-1.62	50.53	74.00	-23.47
2488.20	S	Average	39.89	-2.56	37.33	54.00	-16.67
2488.20	S	Peak	55.94	-2.56	53.38	74.00	-20.62

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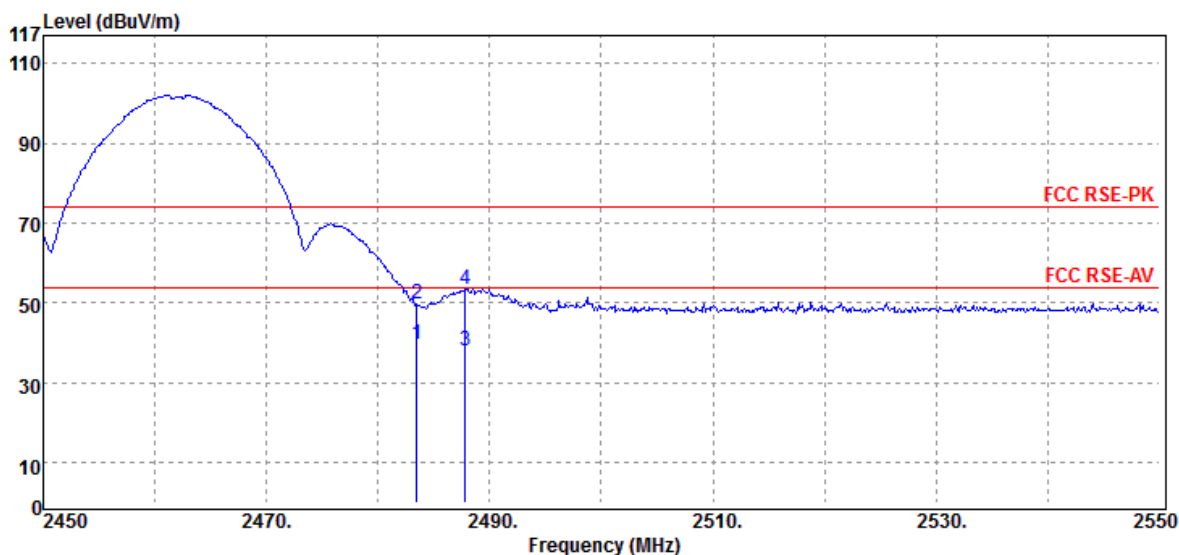
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Operation Band :802.11b
Fundamental Frequency :2462 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :E2 Plane

Test Date :2017-06-22
Temp./Humi. :21 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Average	41.11	-1.62	39.49	54.00	-14.51
2483.50	E	Peak	51.38	-1.62	49.76	74.00	-24.24
2487.80	S	Average	40.44	-2.56	37.88	54.00	-16.12
2487.80	S	Peak	56.04	-2.56	53.48	74.00	-20.52

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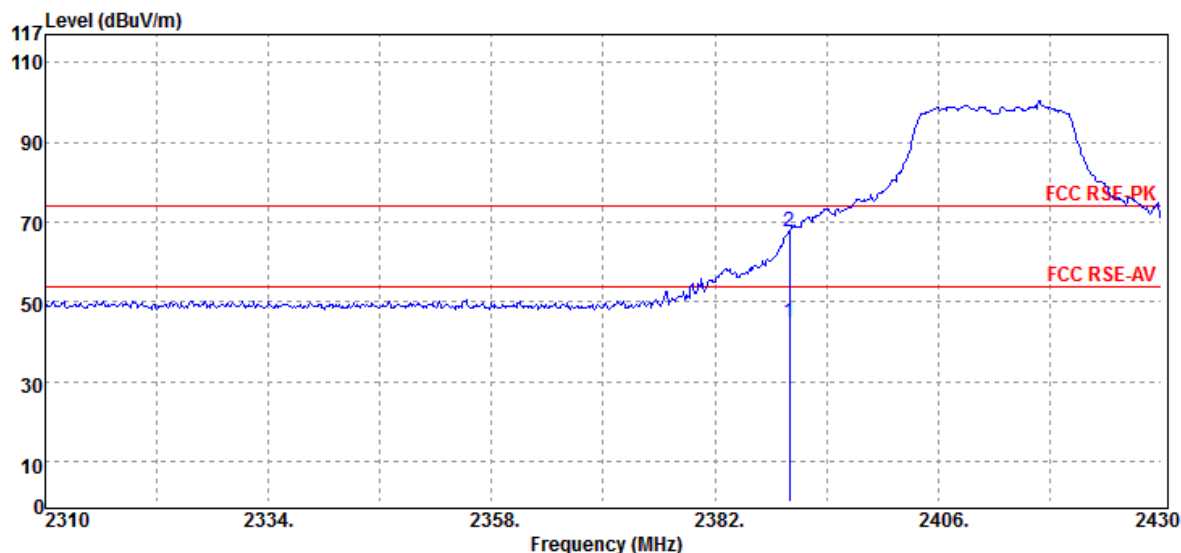
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Radiated Band Edge Measurement Result (802.11g)

Operation Band :802.11g
Fundamental Frequency :2412 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :E2 Plane

Test Date :2017-06-19
Temp./Humi. :21 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Average	46.50	-1.74	44.76	54.00	-9.24
2390.00	E	Peak	69.50	-1.74	67.76	74.00	-6.24

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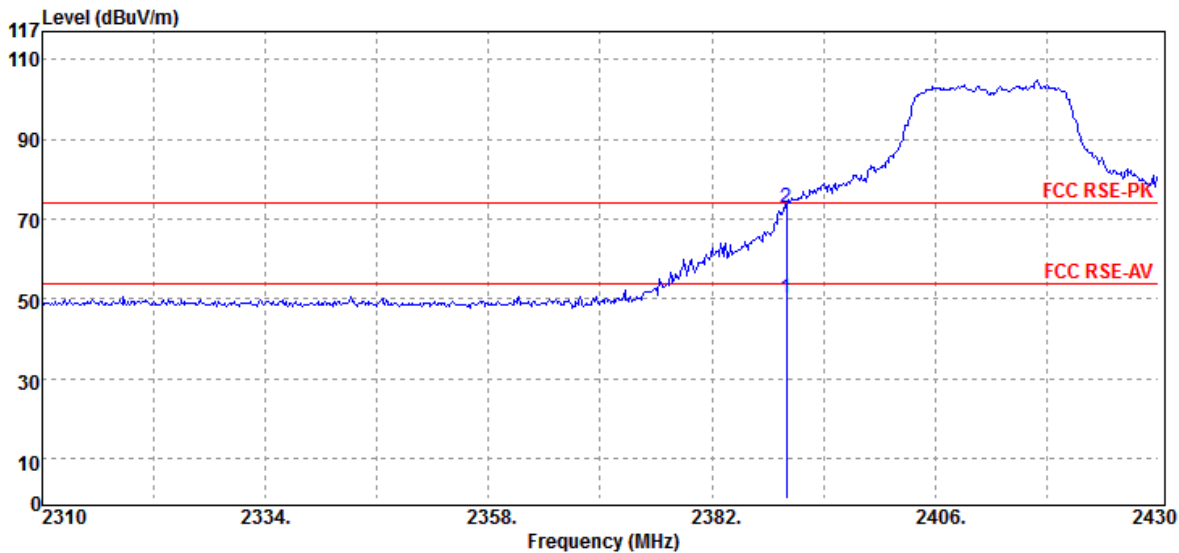
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Operation Band :802.11g
Fundamental Frequency :2412 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :E2 Plane

Test Date :2017-06-19
Temp./Humi. :21 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Average	51.88	-1.74	50.14	54.00	-3.86
2390.00	E	Peak	74.48	-1.74	72.74	74.00	-1.26

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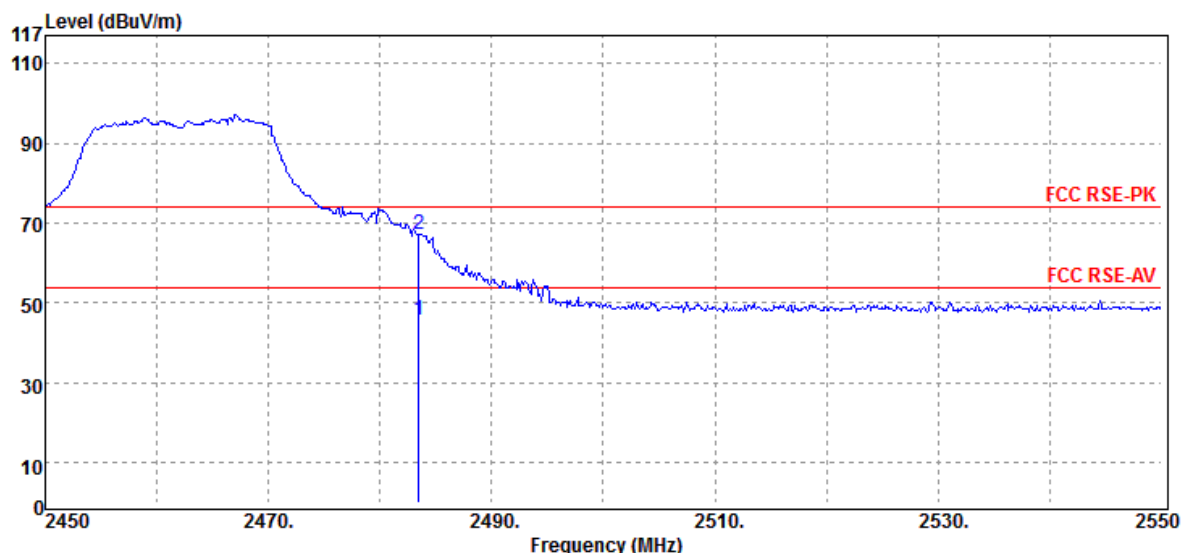
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Operation Band :802.11g
Fundamental Frequency :2462 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :E2 Plane

Test Date :2017-06-19
Temp./Humi. :21 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Average	47.39	-1.62	45.77	54.00	-8.23
2483.50	E	Peak	68.91	-1.62	67.29	74.00	-6.71

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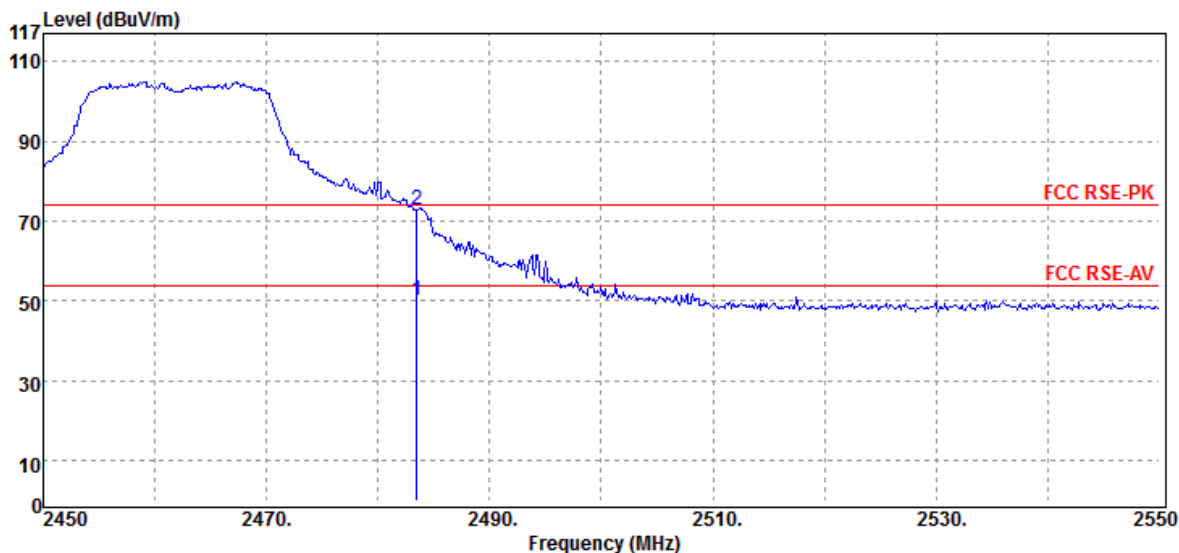
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Operation Band :802.11g
Fundamental Frequency :2462 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :E2 Plane

Test Date :2017-06-19
Temp./Humi. :21 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Average	51.83	-1.62	50.21	54.00	-3.79
2483.50	E	Peak	74.33	-1.62	72.71	74.00	-1.29

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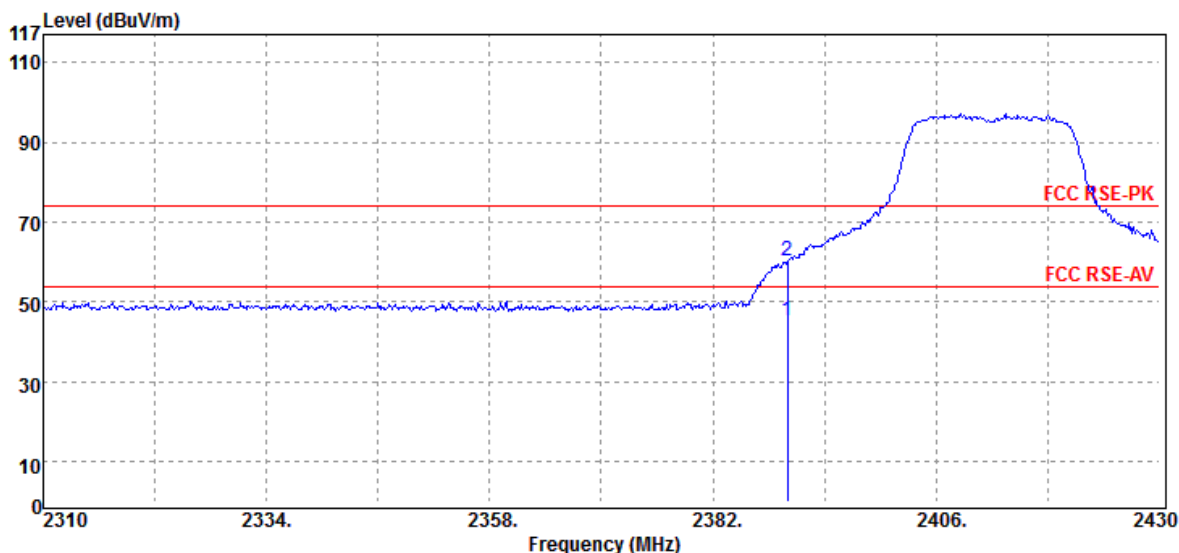
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Radiated Band Edge Measurement Result (802.11_HT20)

Operation Band	:802.11n20	Test Date	:2017-06-19
Fundamental Frequency	:2412 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Average	47.28	-1.74	45.54	54.00	-8.46
2390.00	E	Peak	61.96	-1.74	60.22	74.00	-13.78

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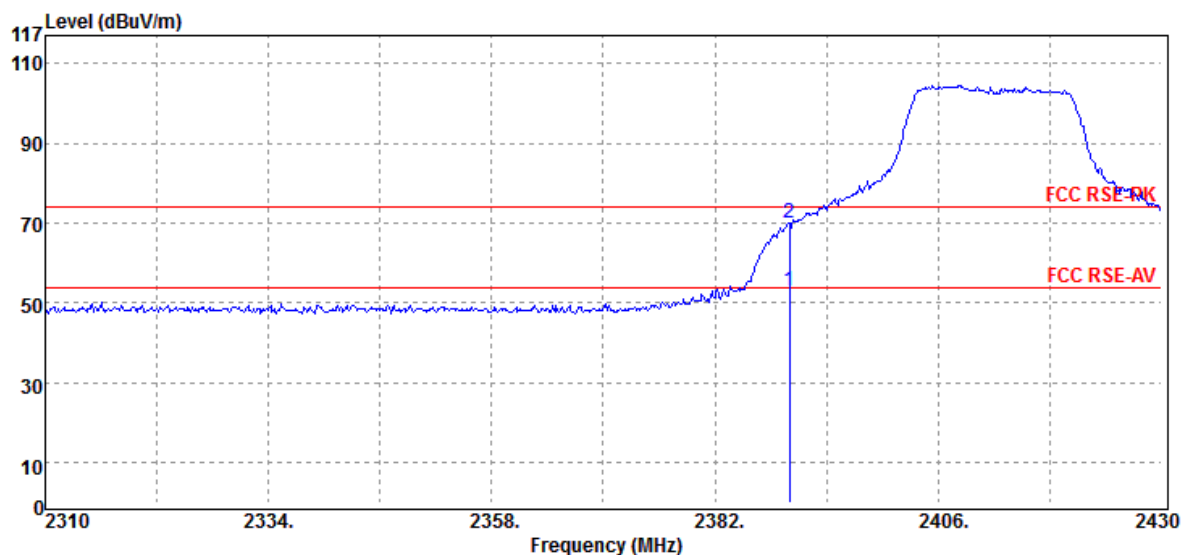
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Operation Band :802.11n20
Fundamental Frequency :2412 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :E2 Plane

Test Date :2017-06-19
Temp./Humi. :21 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Average	54.59	-1.74	52.85	54.00	-1.15
2390.00	E	Peak	71.86	-1.74	70.12	74.00	-3.88

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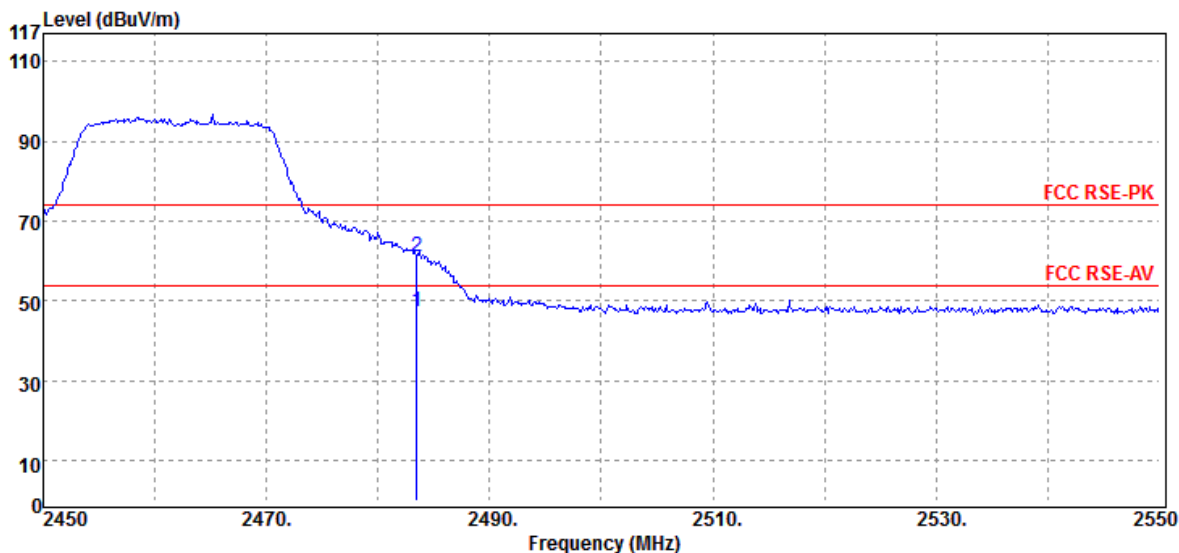
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Operation Band :802.11n20
Fundamental Frequency :2462 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :E2 Plane

Test Date :2017-06-19
Temp./Humi. :21 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Average	48.87	-1.62	47.25	54.00	-6.75
2483.50	E	Peak	62.59	-1.62	60.97	74.00	-13.03

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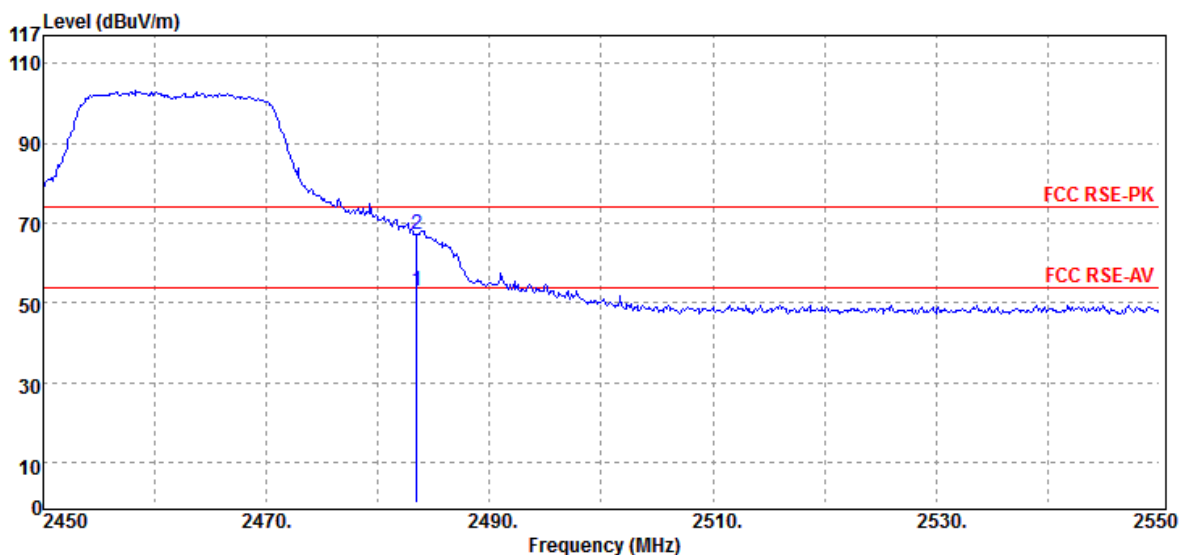
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Operation Band :802.11n20
Fundamental Frequency :2462 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :E2 Plane

Test Date :2017-06-19
Temp./Humi. :21 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Average	54.51	-1.62	52.89	54.00	-1.11
2483.50	E	Peak	68.69	-1.62	67.07	74.00	-6.93

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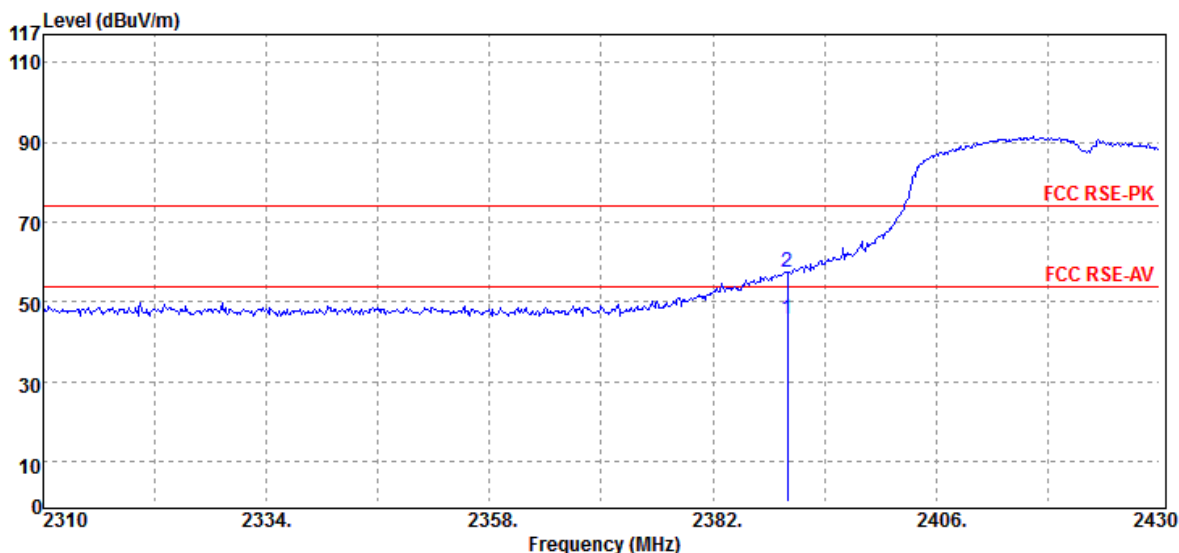
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Radiated Band Edge Measurement Result (802.11_HT40)

Operation Band	:802.11n40	Test Date	:2017-06-19
Fundamental Frequency	:2422 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Average	47.33	-1.74	45.59	54.00	-8.41
2390.00	E	Peak	59.19	-1.74	57.45	74.00	-16.55

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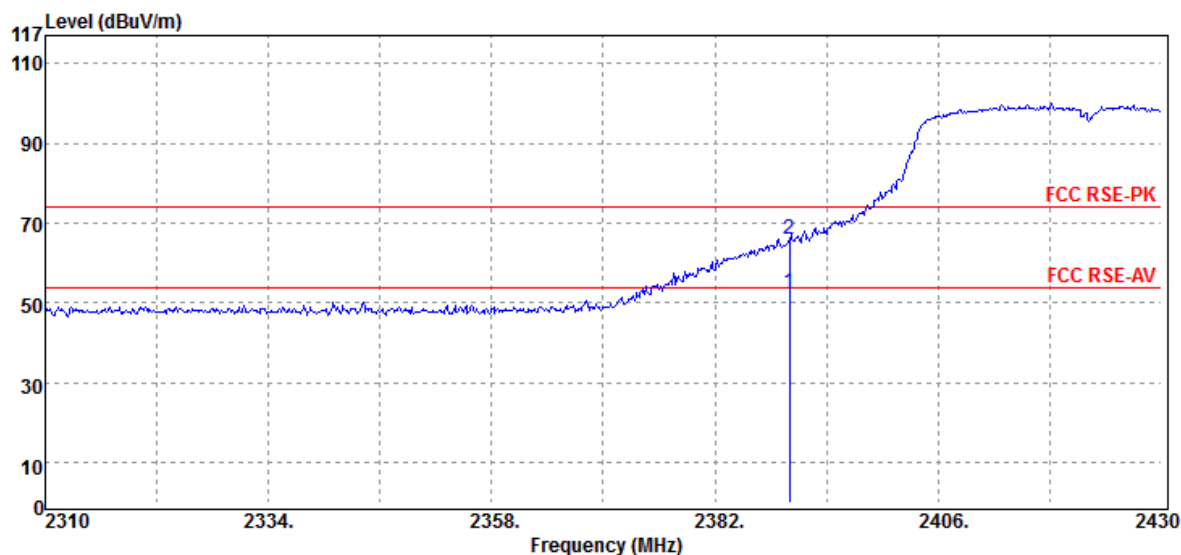
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Operation Band :802.11n40
Fundamental Frequency :2422 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :E2 Plane

Test Date :2017-06-19
Temp./Humi. :21 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Average	54.49	-1.74	52.75	54.00	-1.25
2390.00	E	Peak	67.55	-1.74	65.81	74.00	-8.19

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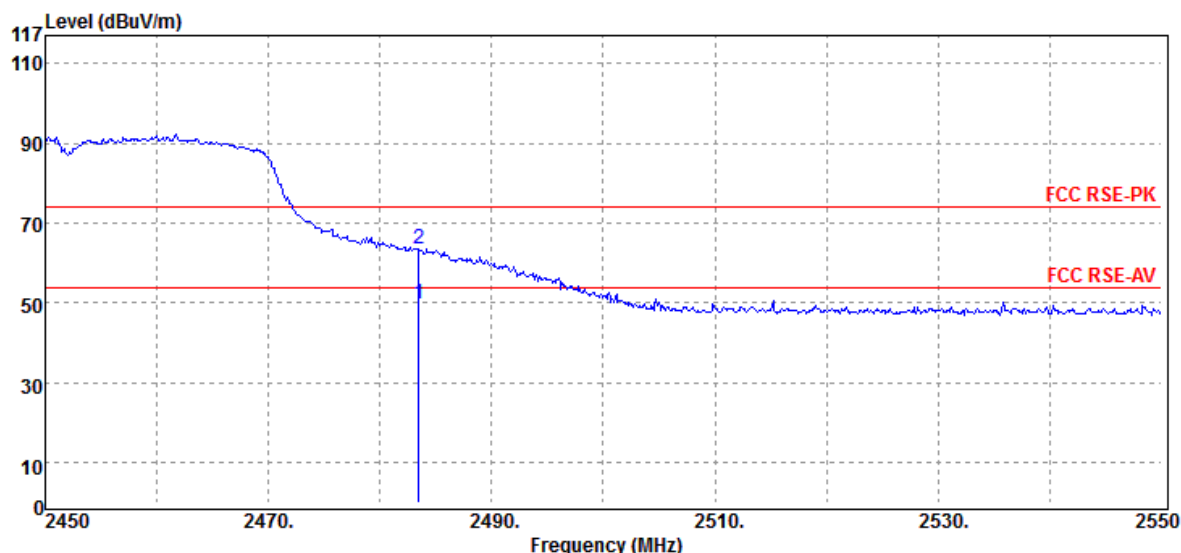
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Operation Band :802.11n40
Fundamental Frequency :2452 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :E2 Plane

Test Date :2017-06-19
Temp./Humi. :21 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Average	51.43	-1.62	49.81	54.00	-4.19
2483.50	E	Peak	65.14	-1.62	63.52	74.00	-10.48

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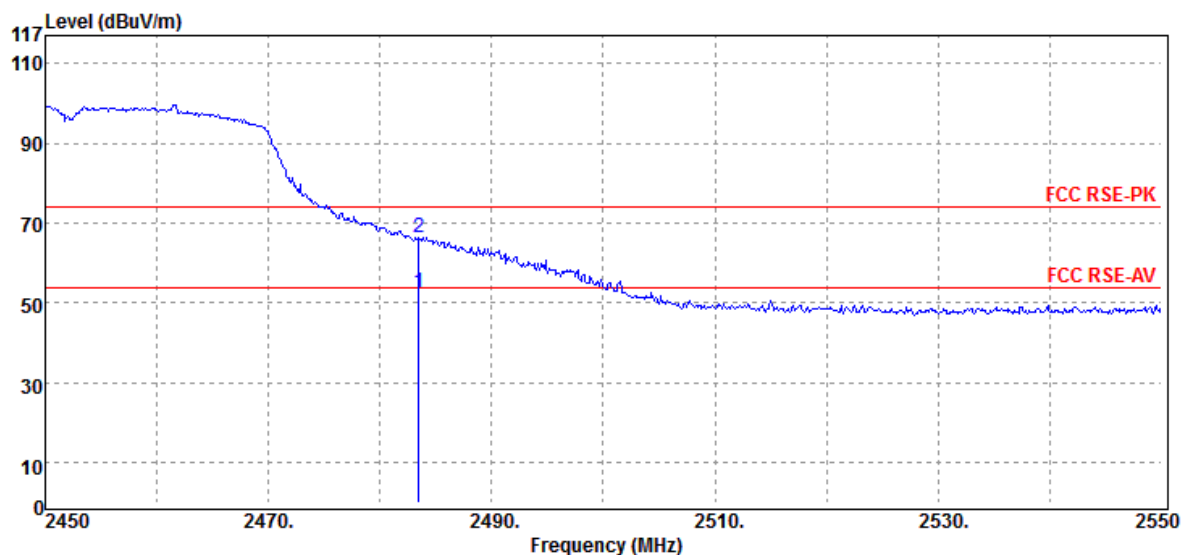
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Operation Band :802.11n40
Fundamental Frequency :2452 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :E2 Plane

Test Date :2017-06-19
Temp./Humi. :21 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Average	54.31	-1.62	52.69	54.00	-1.31
2483.50	E	Peak	67.98	-1.62	66.36	74.00	-7.64

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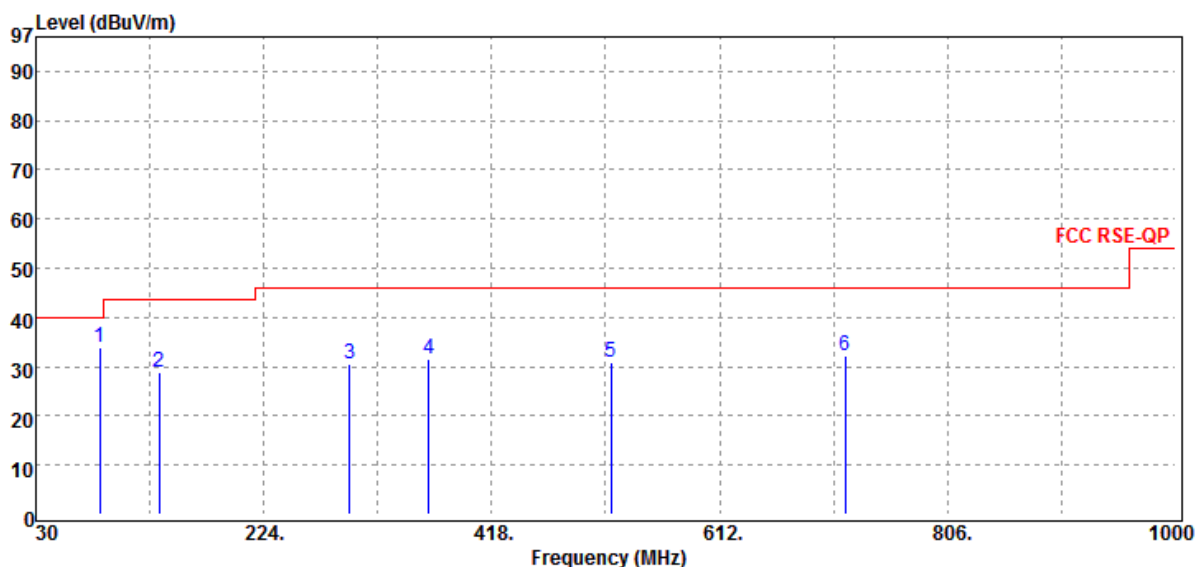
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Below 1GHz Worst-Case Data:

Radiated Spurious Emission Measurement Result (802.11 g)

Operation Band	:802.11g	Test Date	:2017-06-19
Fundamental Frequency	:2412 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
84.32	S	Peak	46.73	-12.90	33.83	40.00	-6.17
134.76	S	Peak	37.57	-8.84	28.73	43.50	-14.77
296.75	S	Peak	36.40	-5.98	30.42	46.00	-15.58
364.65	S	Peak	36.16	-4.69	31.47	46.00	-14.53
519.85	S	Peak	32.59	-1.62	30.97	46.00	-15.03
718.70	S	Peak	30.73	1.50	32.23	46.00	-13.77

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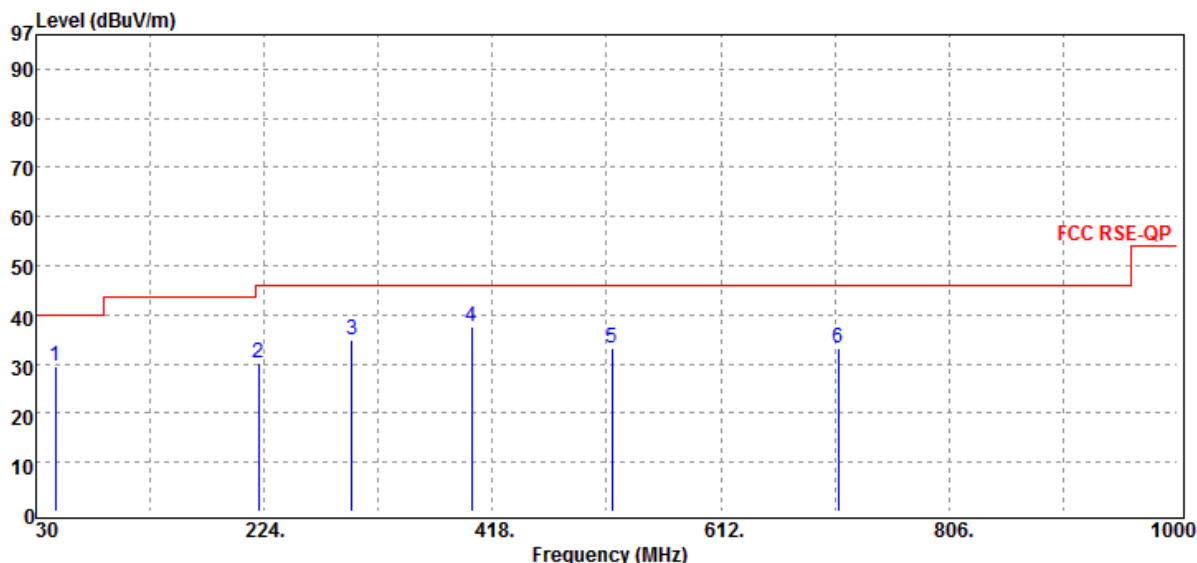
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Operation Band	:802.11g	Test Date	:2017-06-19
Fundamental Frequency	:2412 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
46.49	S	Peak	37.33	-7.91	29.42	40.00	-10.58
219.15	S	Peak	39.62	-9.28	30.34	46.00	-15.66
298.69	S	Peak	40.76	-5.95	34.81	46.00	-11.19
400.54	S	Peak	41.60	-3.94	37.66	46.00	-8.34
519.85	S	Peak	34.76	-1.62	33.14	46.00	-12.86
711.91	S	Peak	31.96	1.31	33.27	46.00	-12.73

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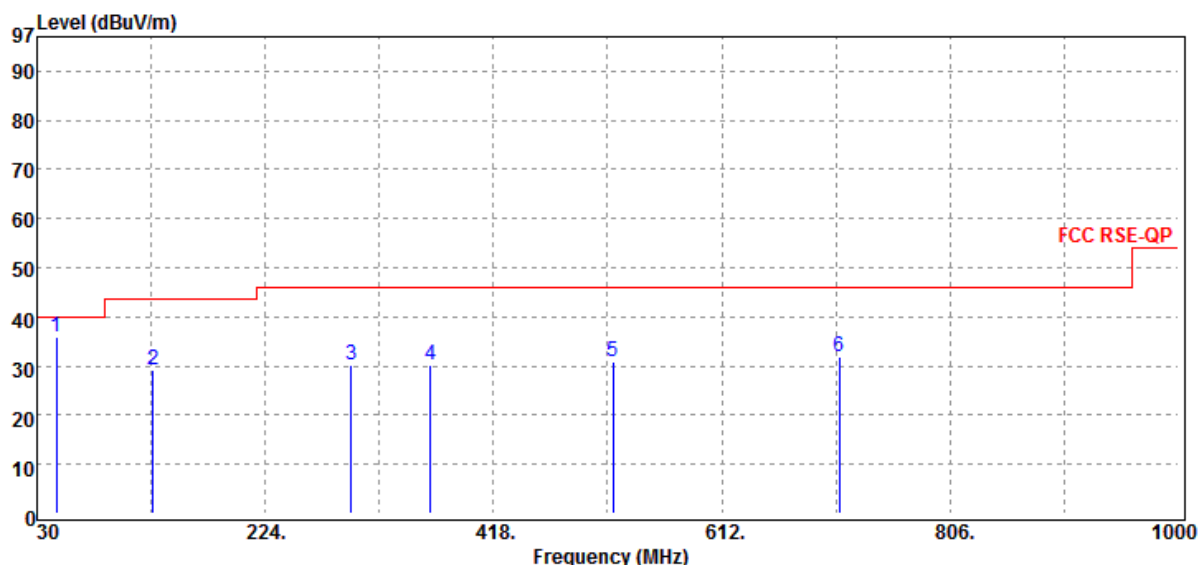
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Operation Band :802.11g
Fundamental Frequency :2437 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2017-06-19
Temp./Humi. :21 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
46.49	S	Peak	43.73	-7.91	35.82	40.00	-4.18
128.94	S	Peak	38.66	-9.57	29.09	43.50	-14.41
296.75	S	Peak	36.14	-5.98	30.16	46.00	-15.84
364.65	S	Peak	34.84	-4.69	30.15	46.00	-15.85
519.85	S	Peak	32.65	-1.62	31.03	46.00	-14.97
711.91	S	Peak	30.54	1.31	31.85	46.00	-14.15

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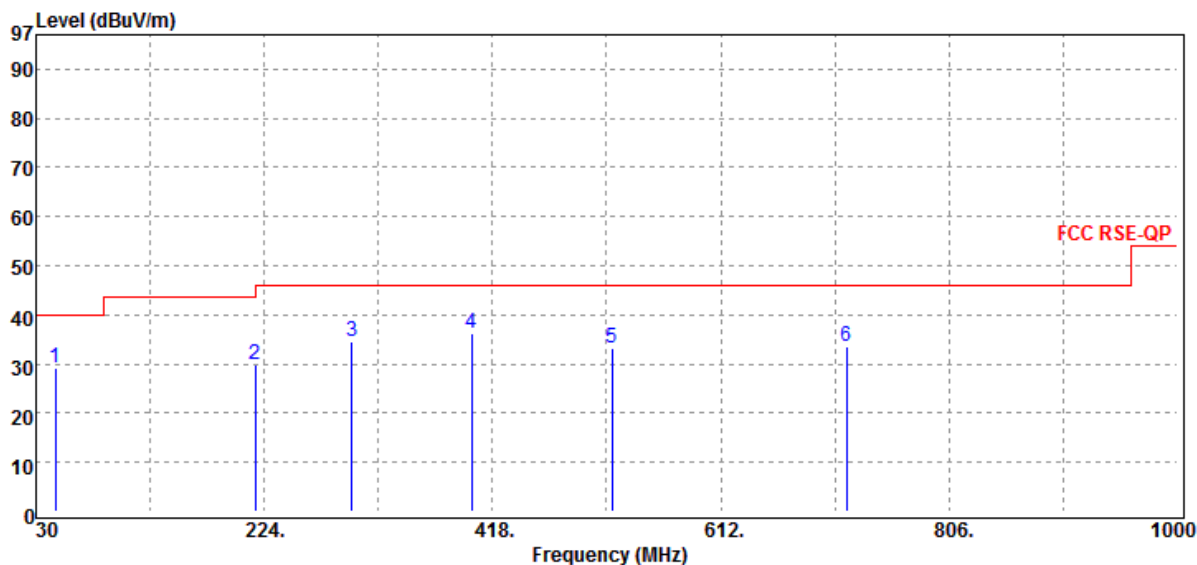
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Operation Band :802.11g
Fundamental Frequency :2437 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2017-06-19
Temp./Humi. :21 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
46.49	S	Peak	37.11	-7.91	29.20	40.00	-10.80
216.24	S	Peak	39.32	-9.43	29.89	46.00	-16.11
298.69	S	Peak	40.45	-5.95	34.50	46.00	-11.50
400.54	S	Peak	40.02	-3.94	36.08	46.00	-9.92
519.85	S	Peak	34.86	-1.62	33.24	46.00	-12.76
718.70	S	Peak	31.99	1.50	33.49	46.00	-12.51

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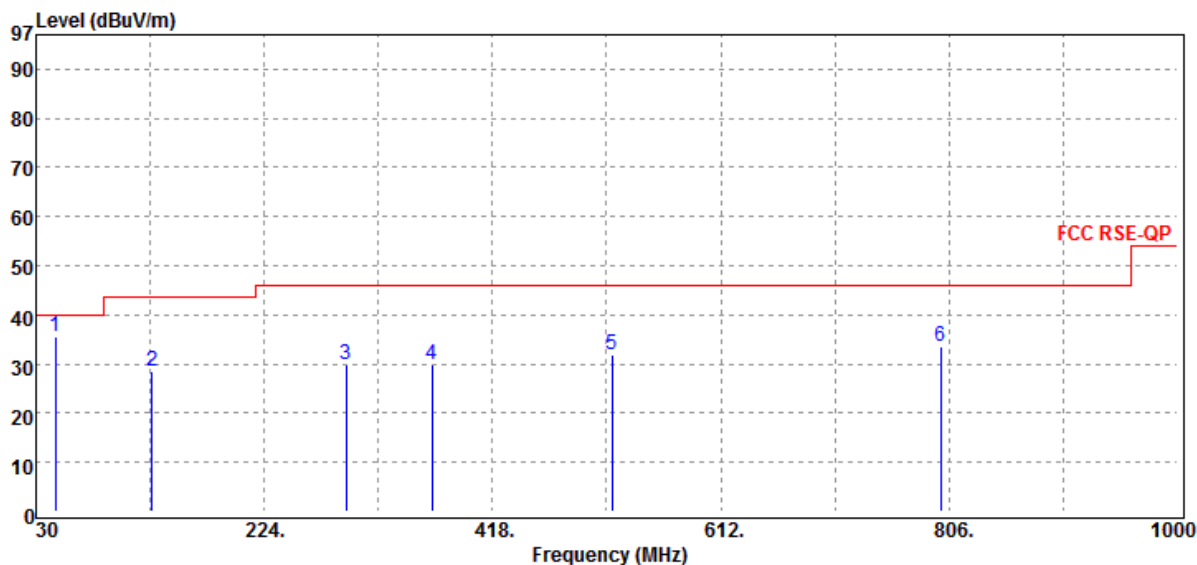
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Operation Band :802.11g
Fundamental Frequency :2462 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

Test Date :2017-06-19
Temp./Humi. :21 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
46.49	S	Peak	43.52	-7.91	35.61	40.00	-4.39
128.94	S	Peak	38.13	-9.57	28.56	43.50	-14.94
293.84	S	Peak	35.89	-6.04	29.85	46.00	-16.15
366.59	S	Peak	34.61	-4.72	29.89	46.00	-16.11
519.85	S	Peak	33.58	-1.62	31.96	46.00	-14.04
799.21	S	Peak	30.46	3.14	33.60	46.00	-12.40

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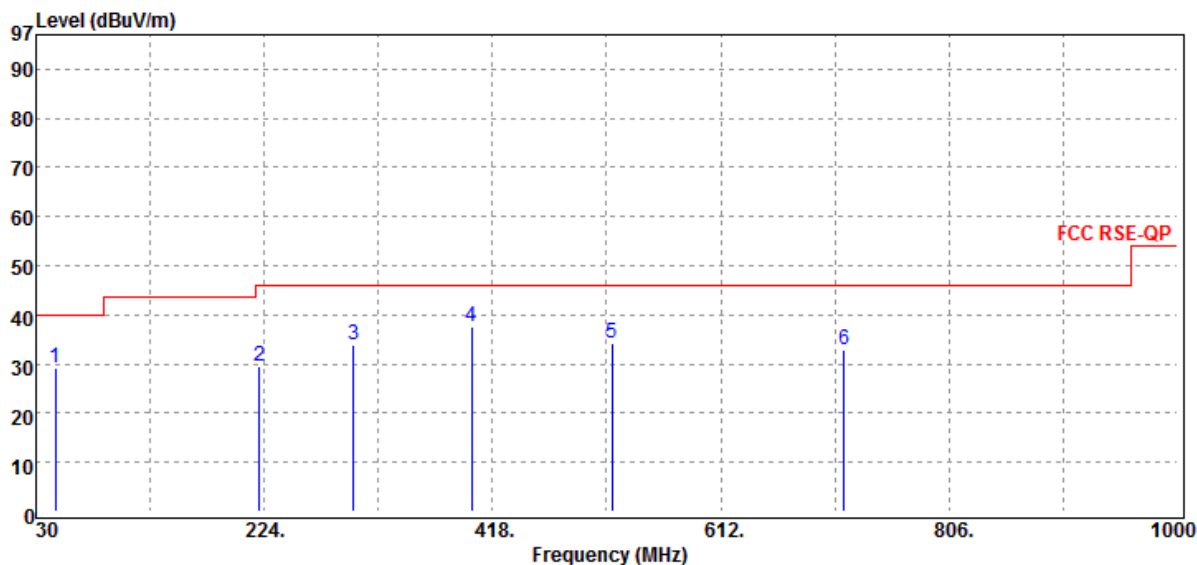
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Operation Band :802.11g
Fundamental Frequency :2462 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

Test Date :2017-06-19
Temp./Humi. :21 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
46.49	S	Peak	37.13	-7.91	29.22	40.00	-10.78
220.12	S	Peak	38.70	-9.25	29.45	46.00	-16.55
299.66	S	Peak	39.86	-5.93	33.93	46.00	-12.07
400.54	S	Peak	41.55	-3.94	37.61	46.00	-8.39
519.85	S	Peak	35.73	-1.62	34.11	46.00	-11.89
716.76	S	Peak	31.24	1.49	32.73	46.00	-13.27

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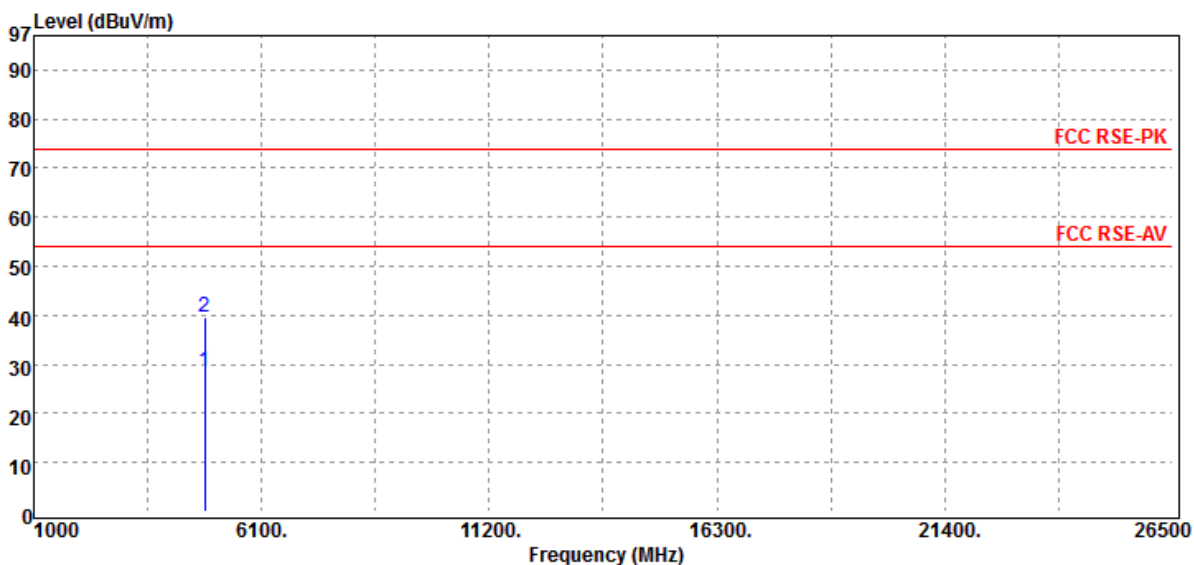
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Above 1GHz Data:

Radiated Spurious Emission Measurement Result (802.11 b)

Operation Band	:802.11b	Test Date	:2017-06-19
Fundamental Frequency	:2412 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	H	Average	23.52	4.93	28.45	54.00	-25.55
4824.00	H	Peak	34.77	4.93	39.70	74.00	-34.30

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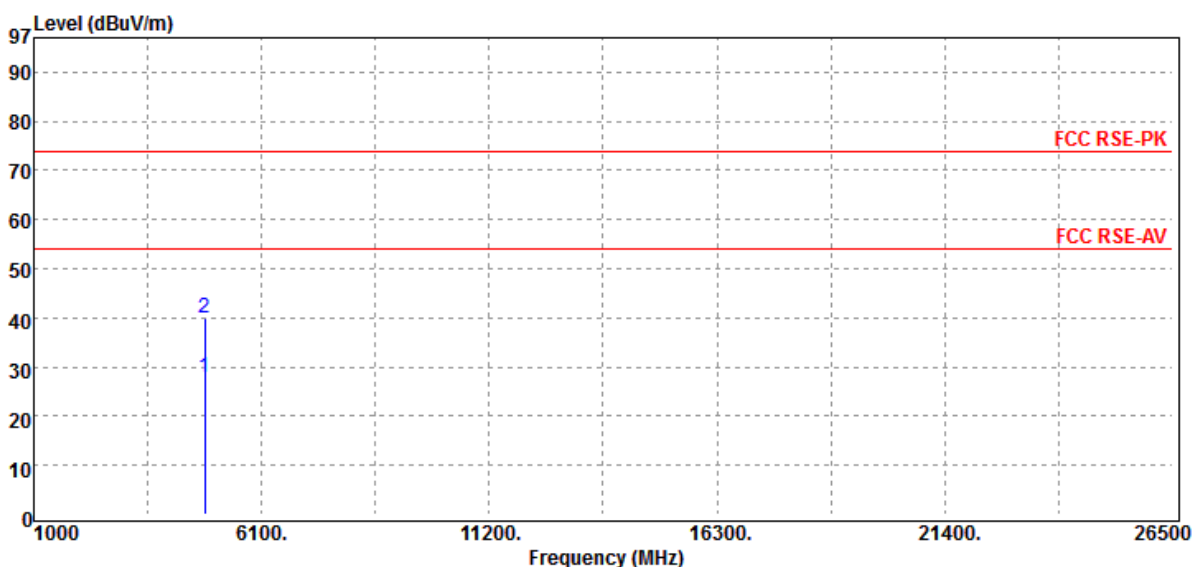
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Operation Band	:802.11b	Test Date	:2017-06-19
Fundamental Frequency	:2412 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	H	Average	23.09	4.93	28.02	54.00	-25.98
4824.00	H	Peak	35.11	4.93	40.04	74.00	-33.96

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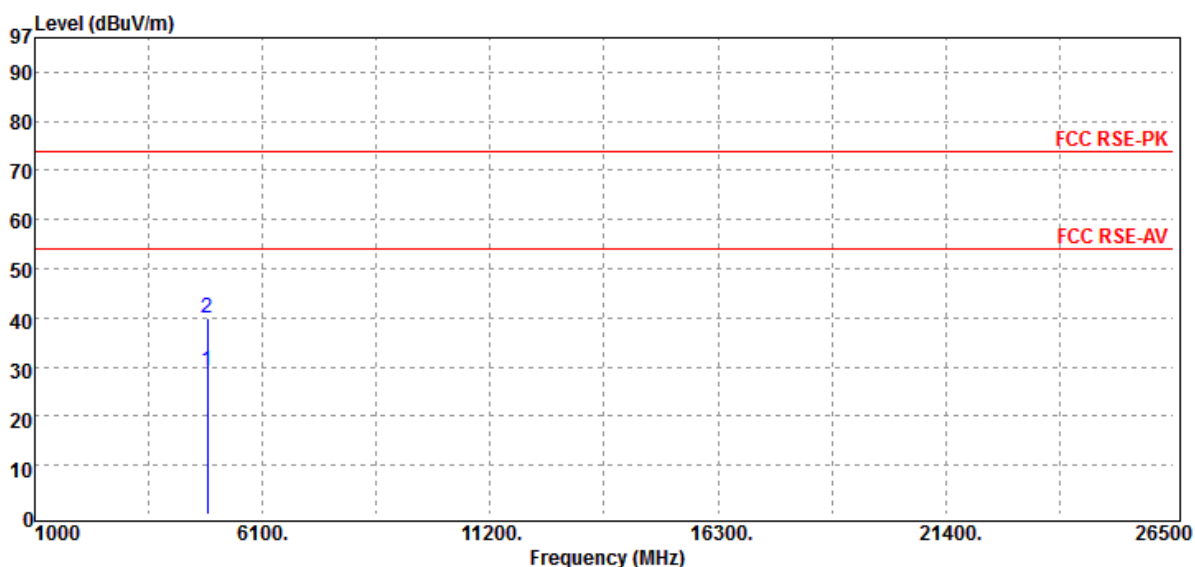
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Operation Band	:802.11b	Test Date	:2017-06-19
Fundamental Frequency	:2437 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	H	Average	23.99	5.13	29.12	54.00	-24.88
4874.00	H	Peak	34.93	5.13	40.06	74.00	-33.94

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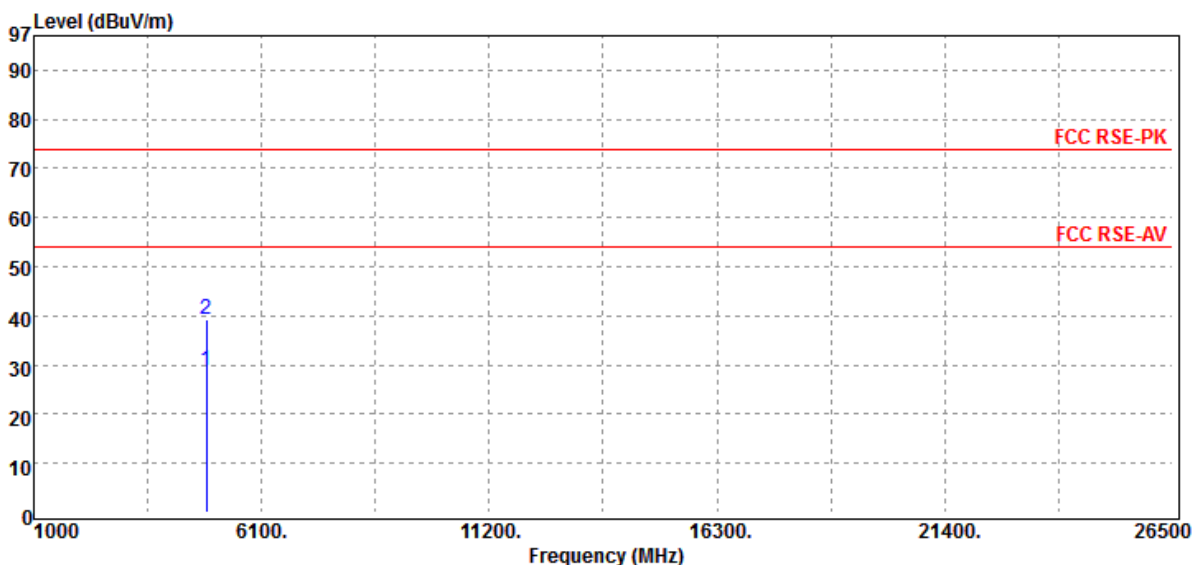
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Operation Band :802.11b
Fundamental Frequency :2437 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2017-06-19
Temp./Humi. :21 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	H	Average	23.79	5.13	28.92	54.00	-25.08
4874.00	H	Peak	34.27	5.13	39.40	74.00	-34.60

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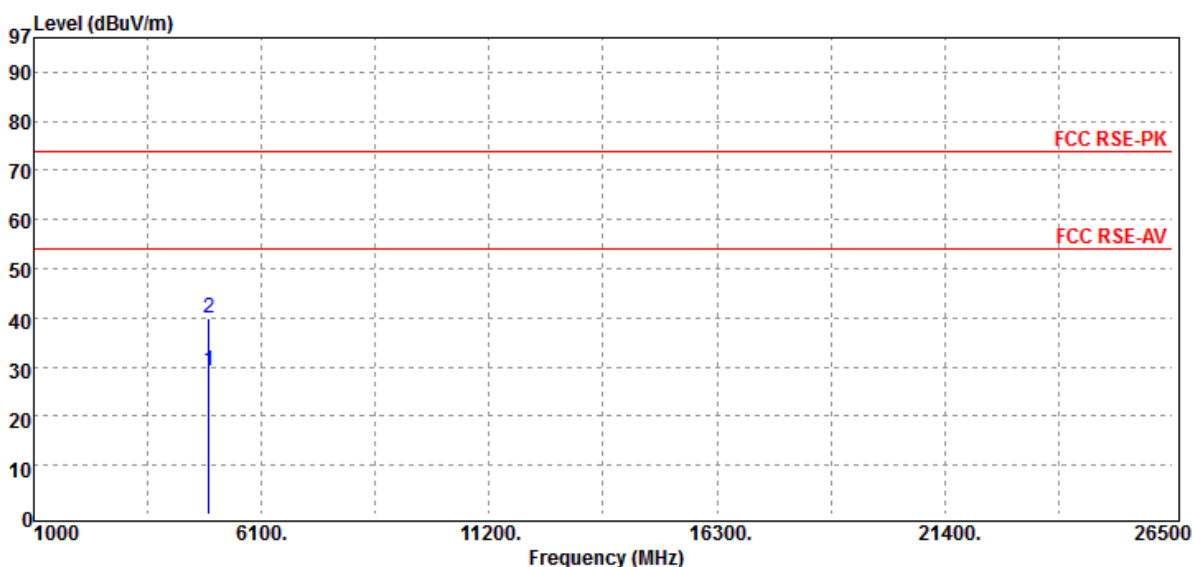
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Operation Band	:802.11b	Test Date	:2017-06-19
Fundamental Frequency	:2462 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	H	Average	23.85	5.25	29.10	54.00	-24.90
4924.00	H	Peak	34.74	5.25	39.99	74.00	-34.01

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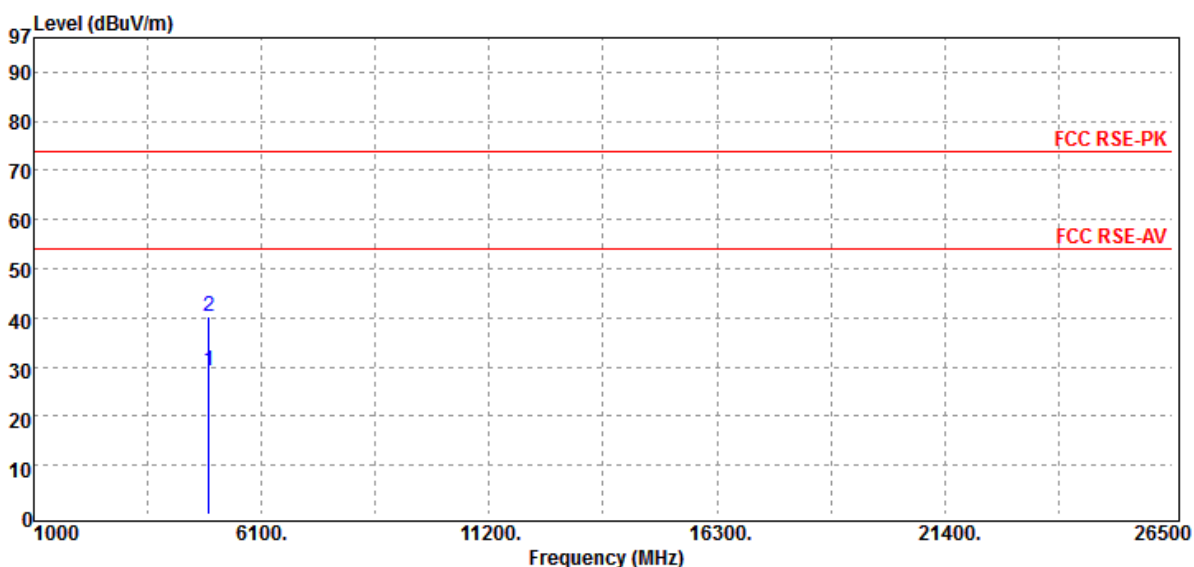
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Operation Band	:802.11b	Test Date	:2017-06-19
Fundamental Frequency	:2462 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	H	Average	23.91	5.25	29.16	54.00	-24.84
4924.00	H	Peak	35.07	5.25	40.32	74.00	-33.68

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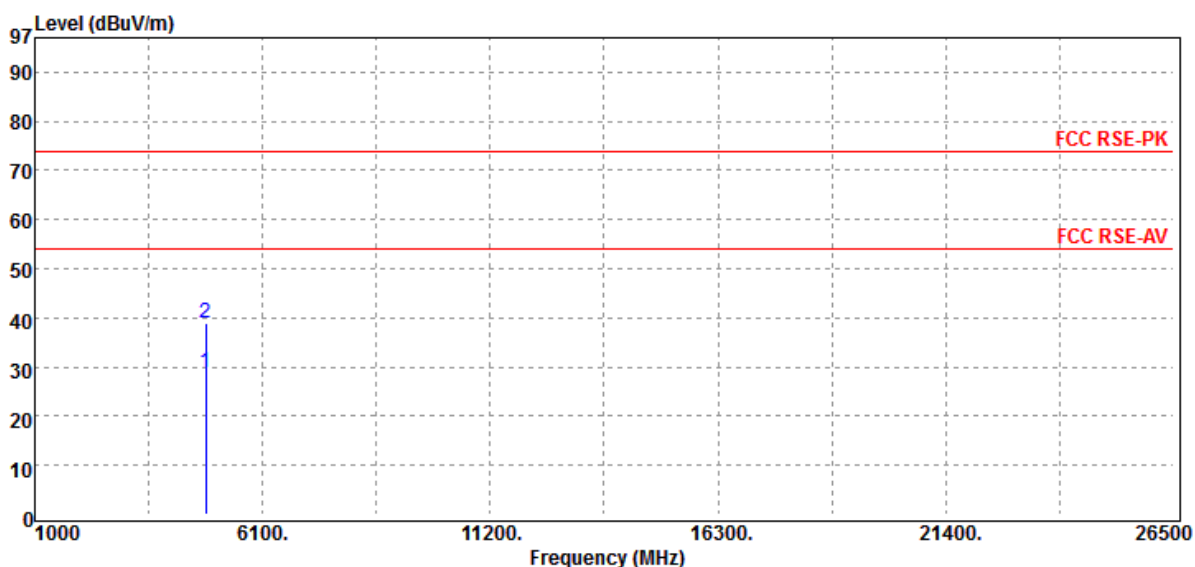
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Radiated Spurious Emission Measurement Result (802.11 g)

Operation Band	:802.11g	Test Date	:2017-06-19
Fundamental Frequency	:2412 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	H	Average	23.77	4.93	28.70	54.00	-25.30
4824.00	H	Peak	34.14	4.93	39.07	74.00	-34.93

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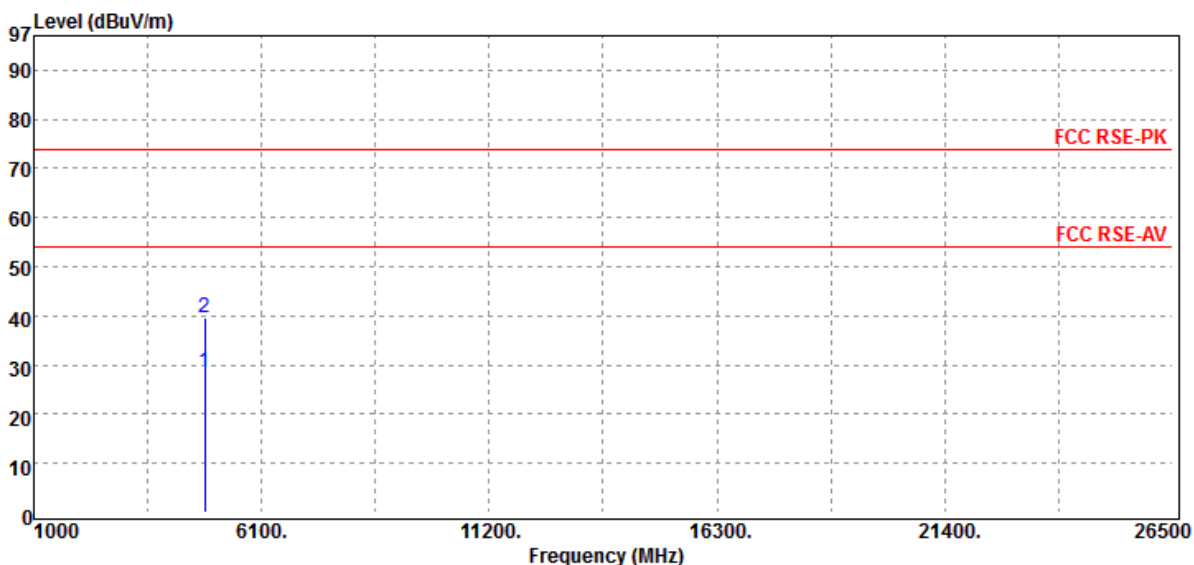
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Operation Band	:802.11g	Test Date	:2017-06-19
Fundamental Frequency	:2412 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	H	Average	23.70	4.93	28.63	54.00	-25.37
4824.00	H	Peak	34.83	4.93	39.76	74.00	-34.24

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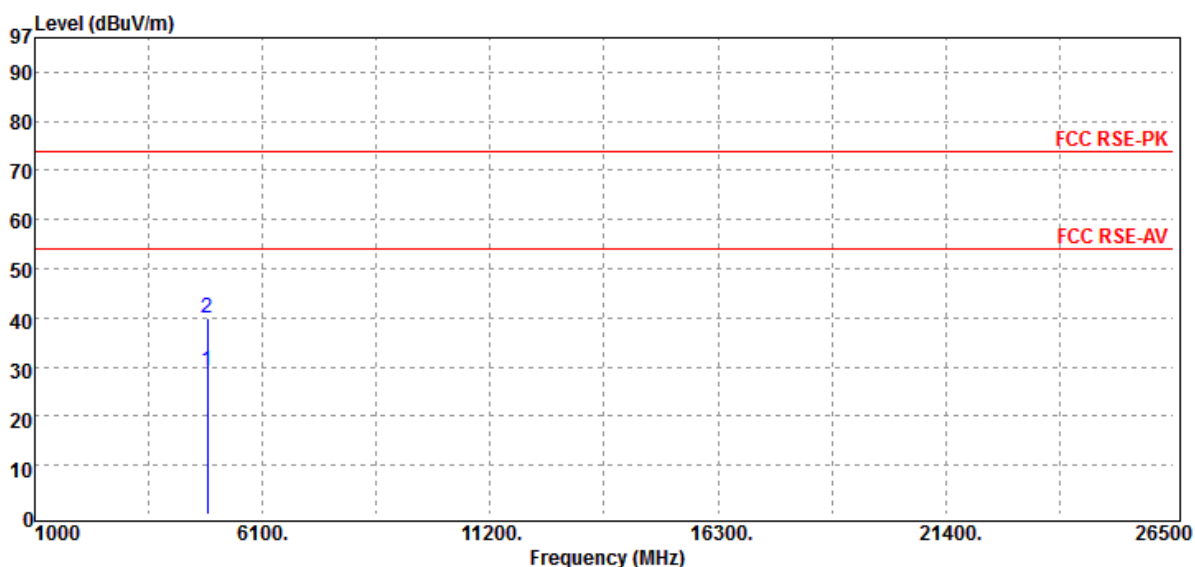
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Operation Band	:802.11g	Test Date	:2017-06-19
Fundamental Frequency	:2437 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	H	Average	24.03	5.13	29.16	54.00	-24.84
4874.00	H	Peak	34.96	5.13	40.09	74.00	-33.91

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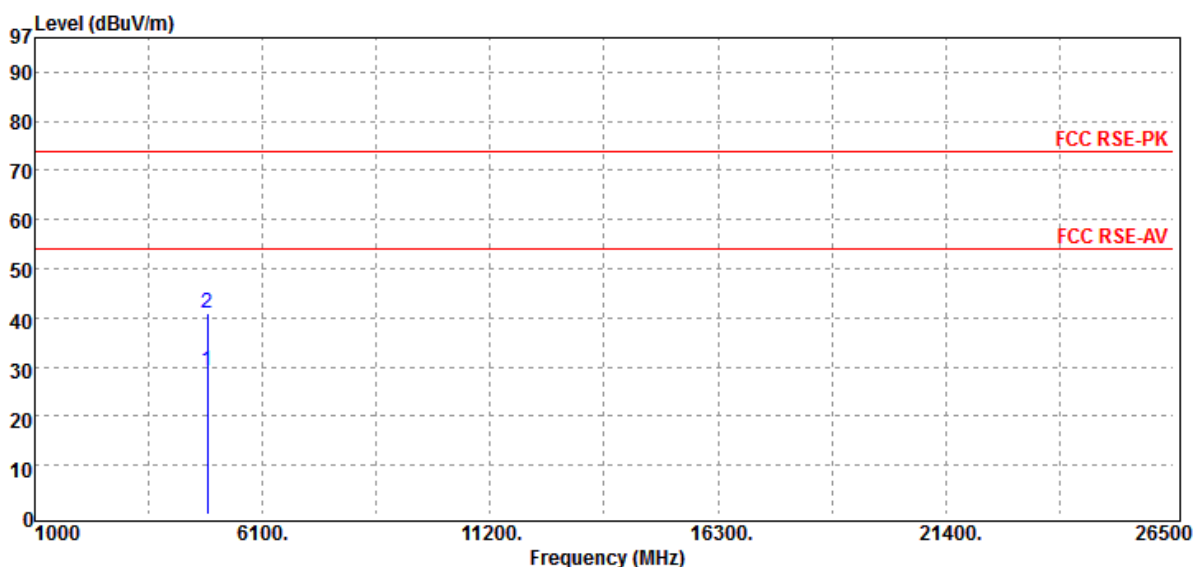
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Operation Band	:802.11g	Test Date	:2017-06-19
Fundamental Frequency	:2437 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	H	Average	24.12	5.13	29.25	54.00	-24.75
4874.00	H	Peak	35.91	5.13	41.04	74.00	-32.96

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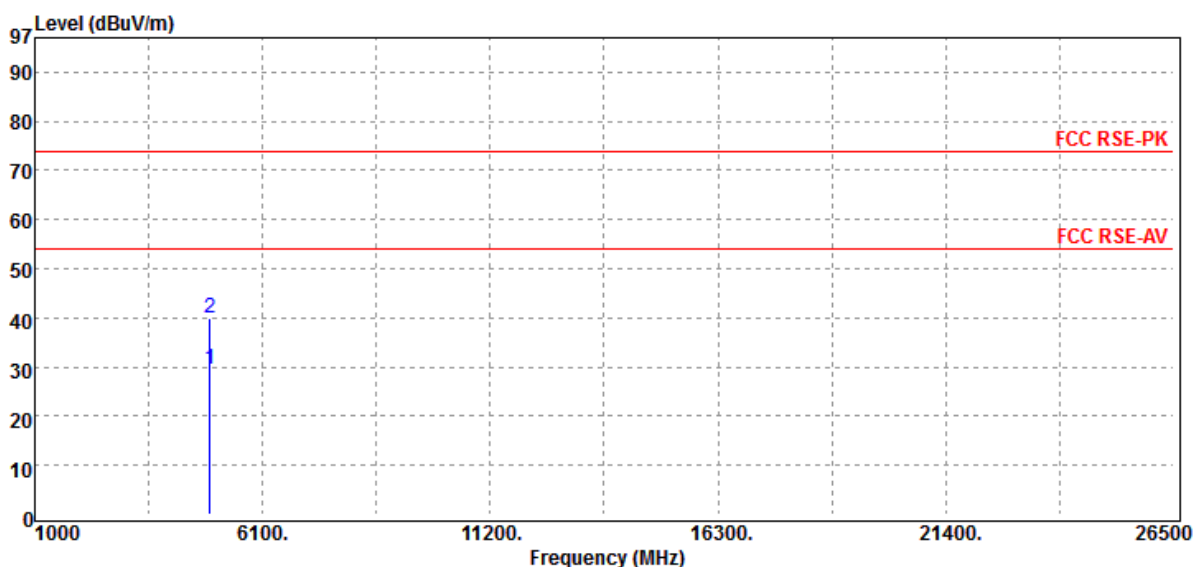
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Operation Band	:802.11g	Test Date	:2017-06-19
Fundamental Frequency	:2462 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	H	Average	24.18	5.25	29.43	54.00	-24.57
4924.00	H	Peak	34.81	5.25	40.06	74.00	-33.94

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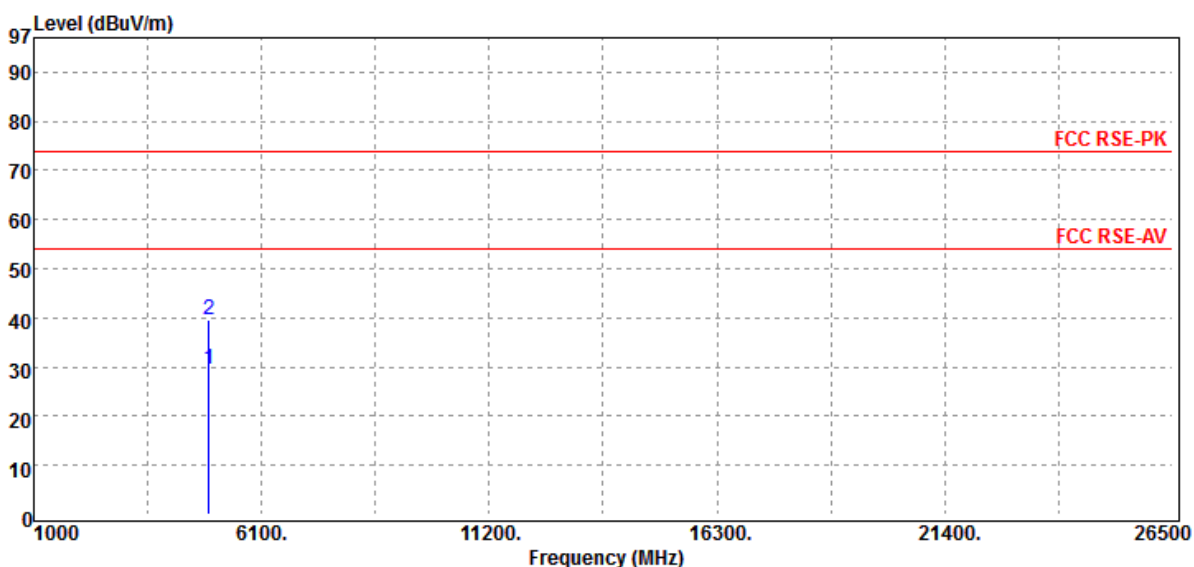
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Operation Band	:802.11g	Test Date	:2017-06-19
Fundamental Frequency	:2462 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	H	Average	24.28	5.25	29.53	54.00	-24.47
4924.00	H	Peak	34.31	5.25	39.56	74.00	-34.44

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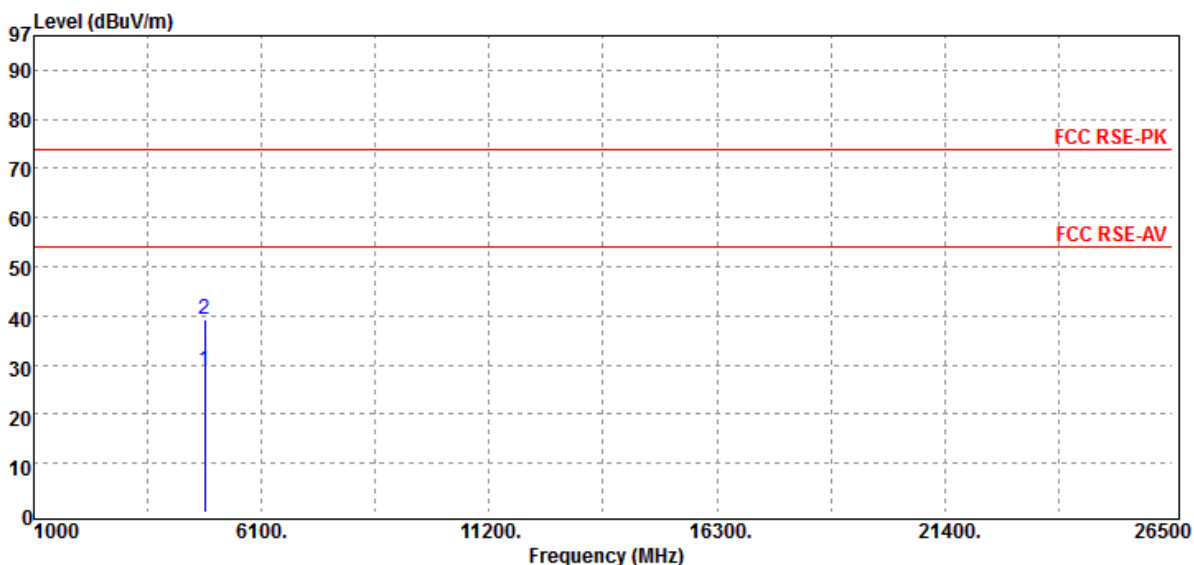
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Radiated Spurious Emission Measurement Result (802.11_HT20)

Operation Band	:802.11n20	Test Date	:2017-06-19
Fundamental Frequency	:2412 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	H	Average	23.97	4.93	28.90	54.00	-25.10
4824.00	H	Peak	34.24	4.93	39.17	74.00	-34.83

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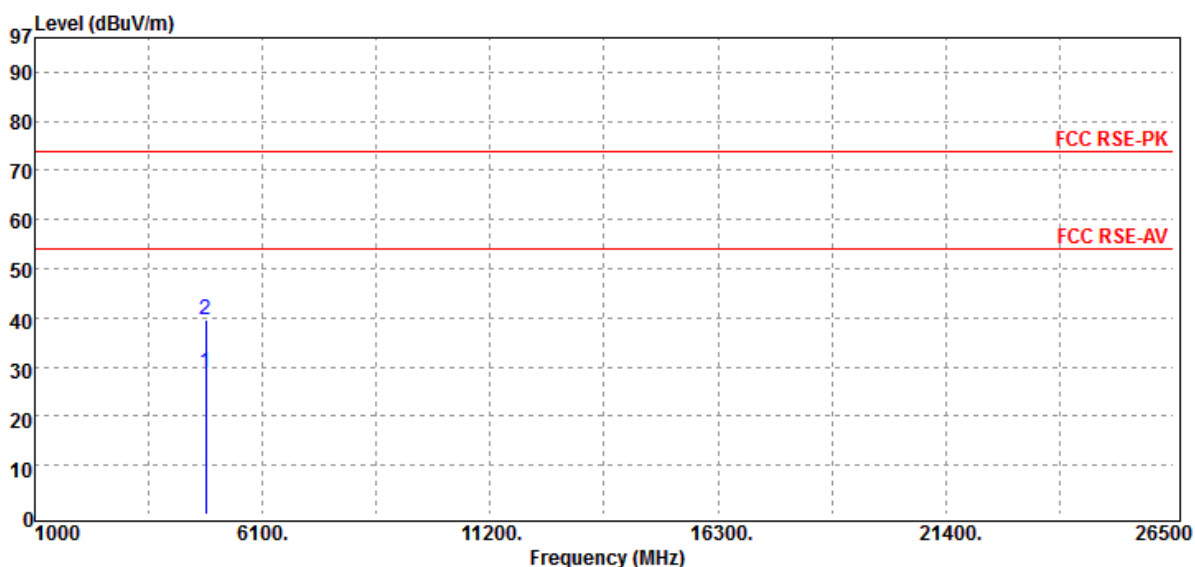
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Operation Band	:802.11n20	Test Date	:2017-06-19
Fundamental Frequency	:2412 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	H	Average	23.90	4.93	28.83	54.00	-25.17
4824.00	H	Peak	34.66	4.93	39.59	74.00	-34.41

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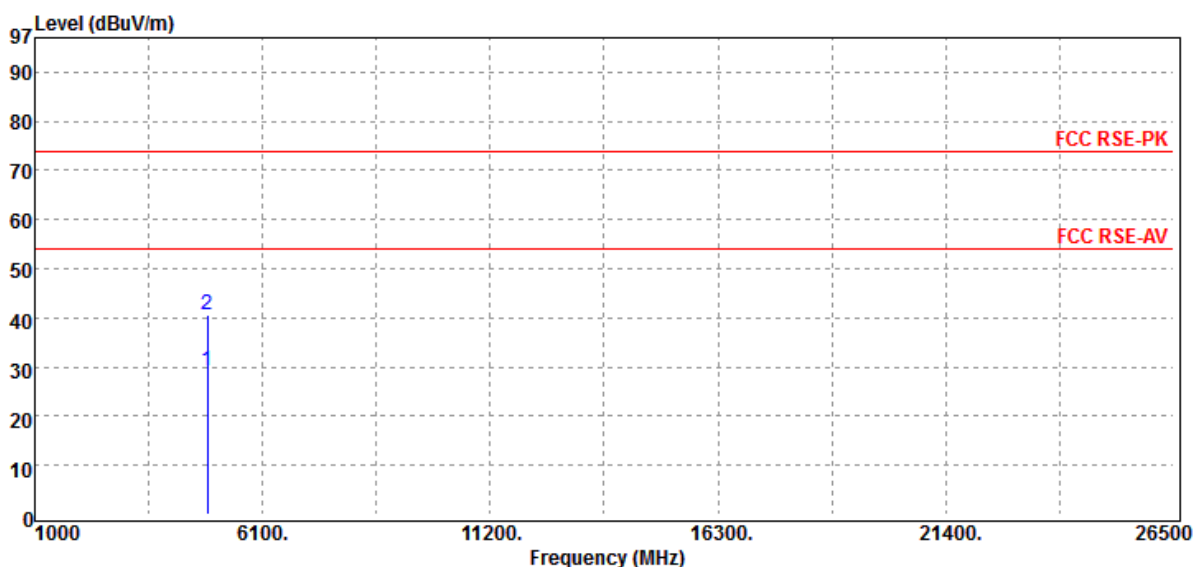
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Operation Band	:802.11n20	Test Date	:2017-06-19
Fundamental Frequency	:2437 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	H	Average	24.06	5.13	29.19	54.00	-24.81
4874.00	H	Peak	35.49	5.13	40.62	74.00	-33.38

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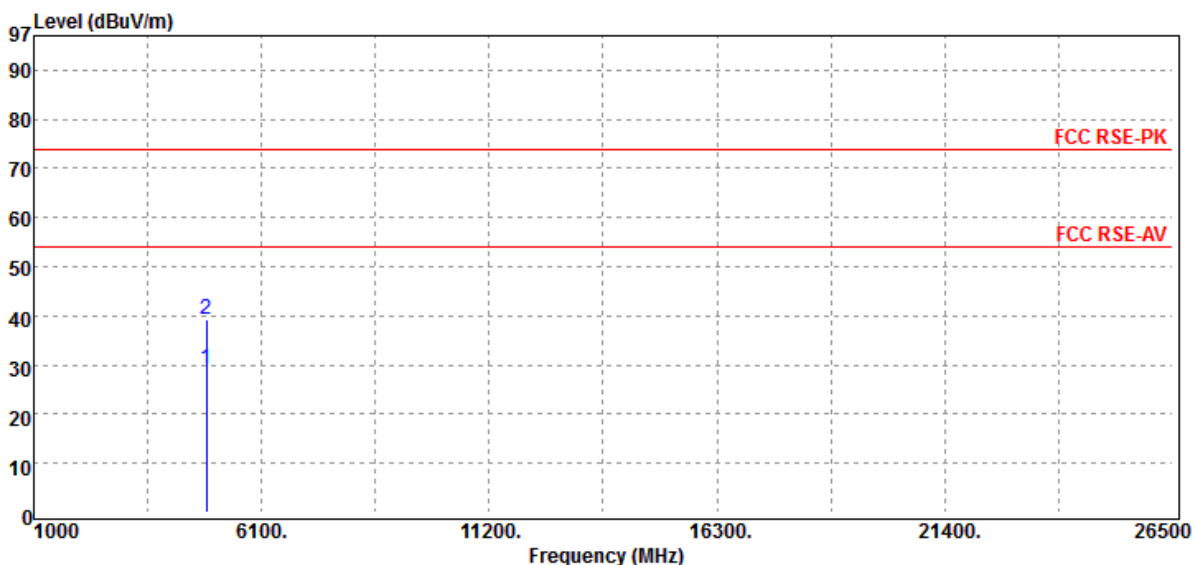
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Operation Band :802.11n20
Fundamental Frequency :2437 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2017-06-19
Temp./Humi. :21 deg_C / 62 RH
Engineer :Mike
Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	H	Average	24.01	5.13	29.14	54.00	-24.86
4874.00	H	Peak	33.99	5.13	39.12	74.00	-34.88

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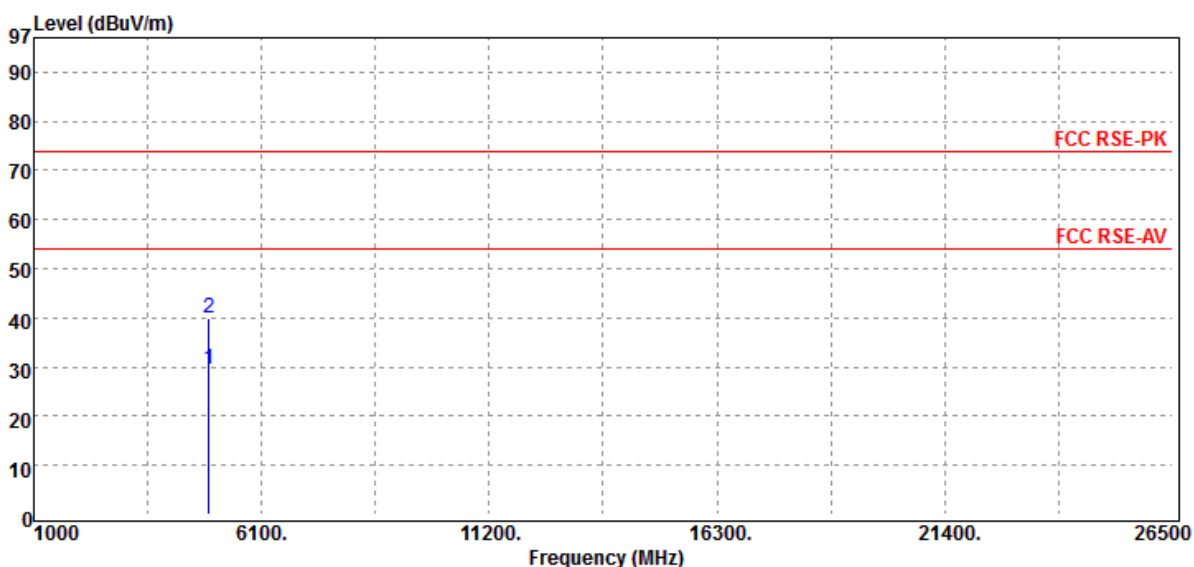
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Operation Band	:802.11n20	Test Date	:2017-06-19
Fundamental Frequency	:2462 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	H	Average	24.15	5.25	29.40	54.00	-24.60
4924.00	H	Peak	34.81	5.25	40.06	74.00	-33.94

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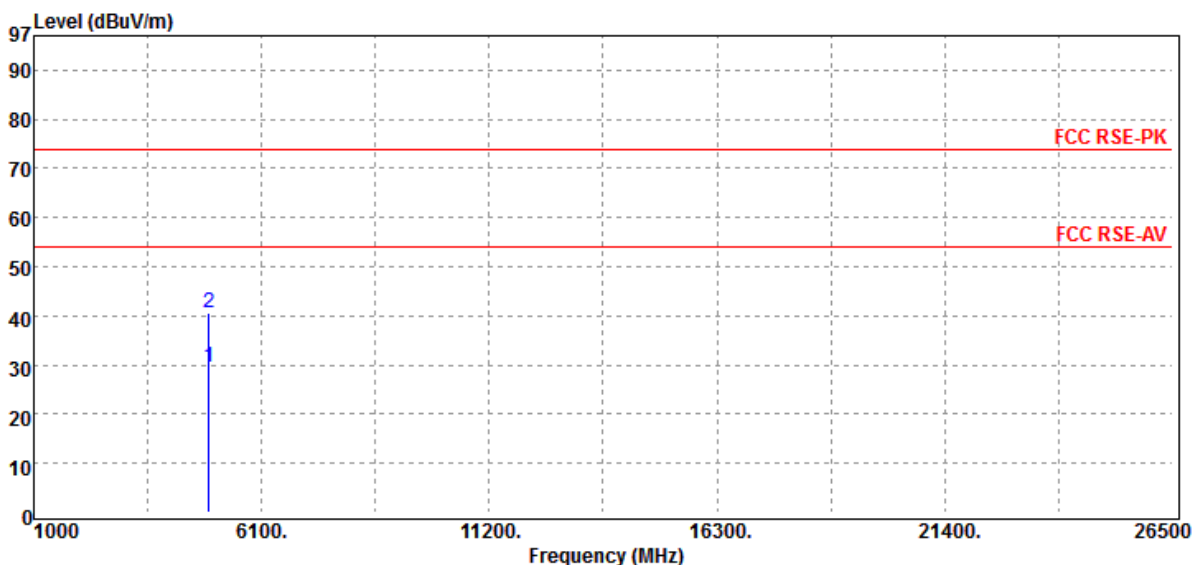
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Operation Band	:802.11n20	Test Date	:2017-06-19
Fundamental Frequency	:2462 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	H	Average	24.21	5.25	29.46	54.00	-24.54
4924.00	H	Peak	35.34	5.25	40.59	74.00	-33.41

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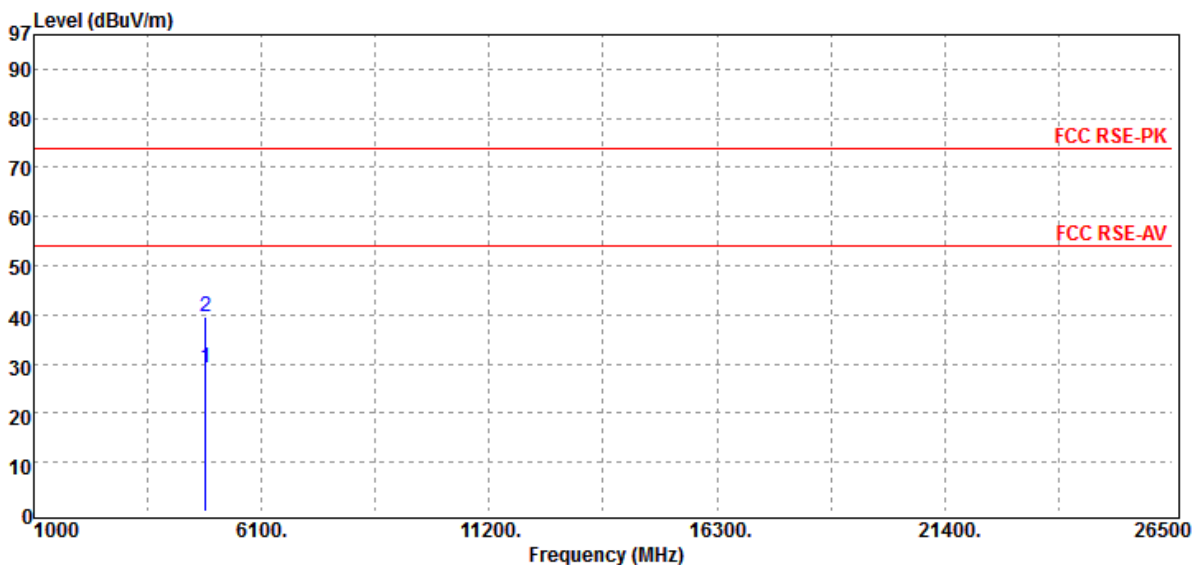
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Radiated Spurious Emission Measurement Result (802.11_HT40)

Operation Band	:802.11n40	Test Date	:2017-06-19
Fundamental Frequency	:2422 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	Margin
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	dB
4844.00	H	Average	24.22	4.97	29.19	54.00	-24.81
4844.00	H	Peak	34.59	4.97	39.56	74.00	-34.44

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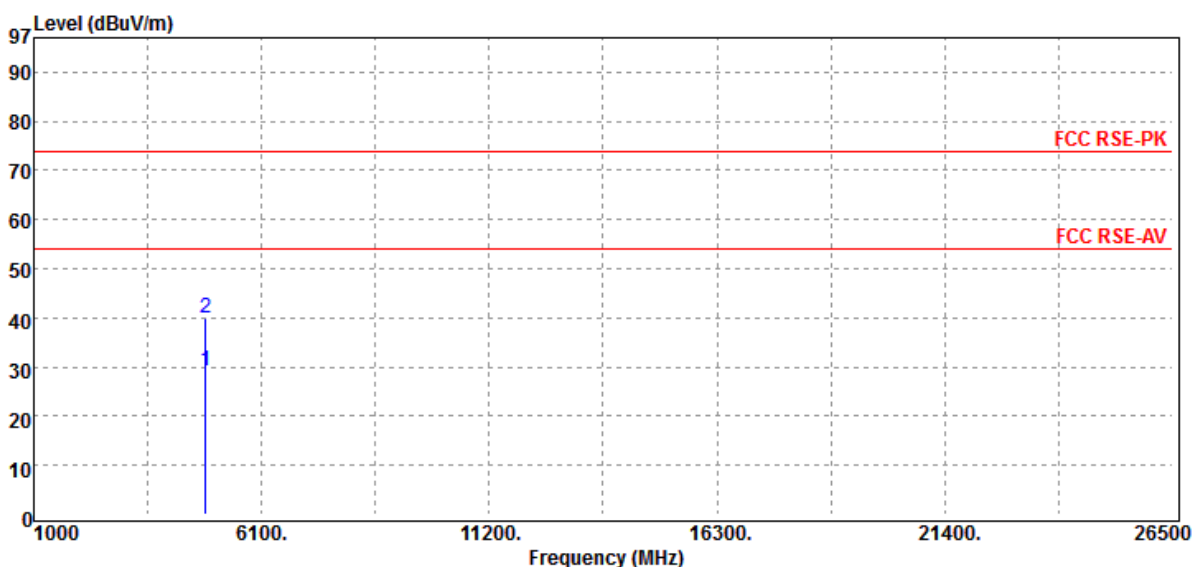
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Operation Band	:802.11n40	Test Date	:2017-06-19
Fundamental Frequency	:2422 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	Margin
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4844.00	H	Average	24.17	4.97	29.14	54.00	-24.86
4844.00	H	Peak	35.07	4.97	40.04	74.00	-33.96

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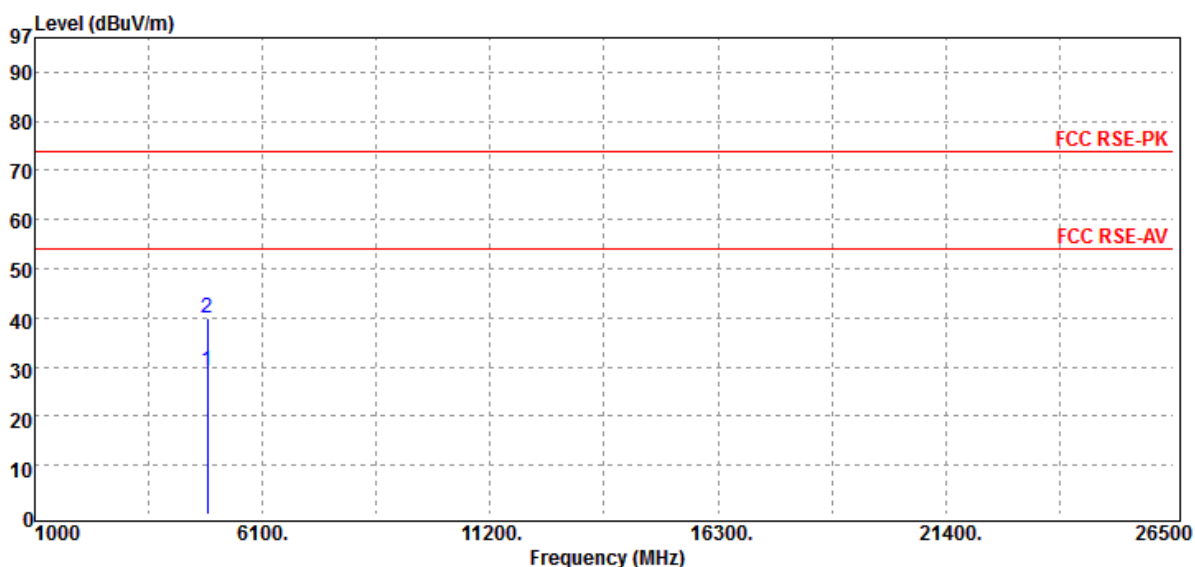
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Operation Band	:802.11n40	Test Date	:2017-06-19
Fundamental Frequency	:2437 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	H	Average	24.02	5.13	29.15	54.00	-24.85
4874.00	H	Peak	34.73	5.13	39.86	74.00	-34.14

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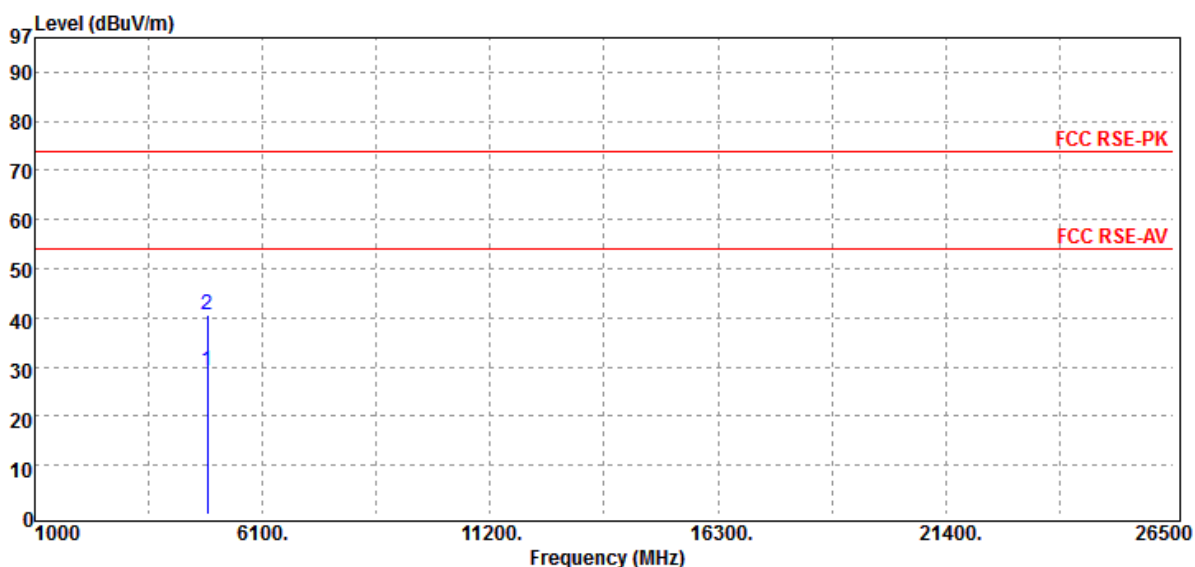
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Operation Band	:802.11n40	Test Date	:2017-06-19
Fundamental Frequency	:2437 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	H	Average	24.08	5.13	29.21	54.00	-24.79
4874.00	H	Peak	35.32	5.13	40.45	74.00	-33.55

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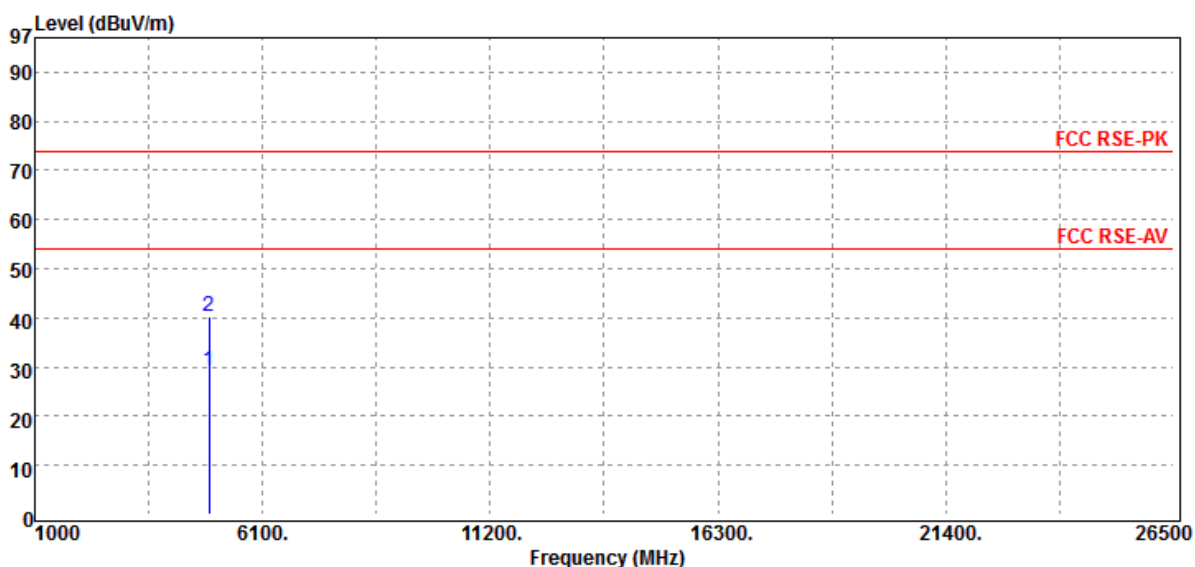
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Operation Band	:802.11n40	Test Date	:2017-06-19
Fundamental Frequency	:2452 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4904.00	H	Average	24.04	5.24	29.28	54.00	-24.72
4904.00	H	Peak	35.16	5.24	40.40	74.00	-33.60

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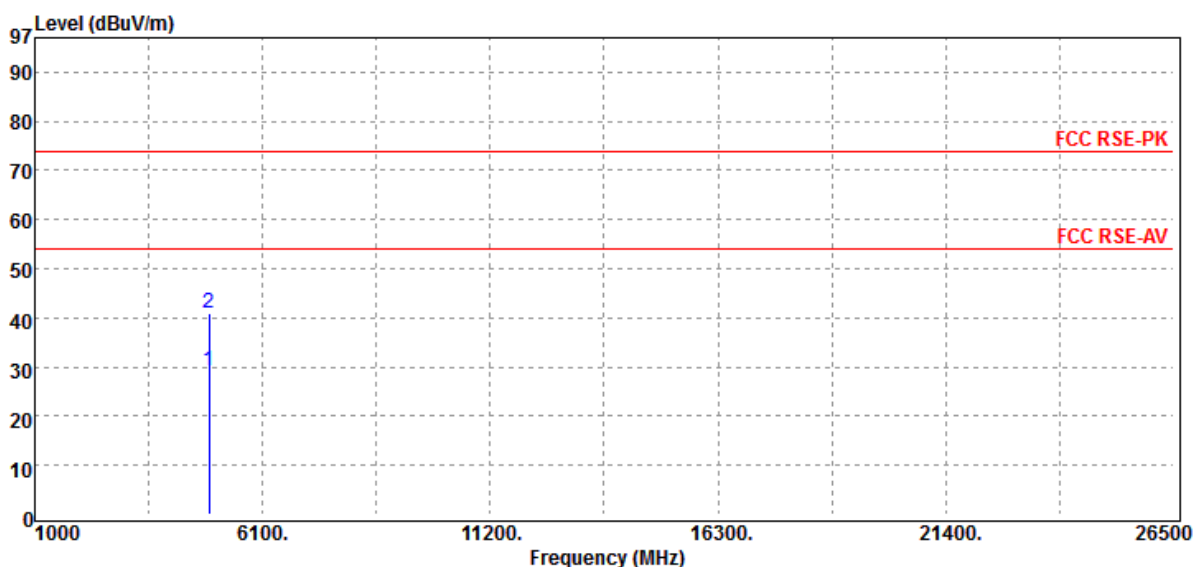
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Operation Band	:802.11n40	Test Date	:2017-06-19
Fundamental Frequency	:2452 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Safe
		Mode	Reading Level		FS	@3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4904.00	H	Average	24.10	5.24	29.34	54.00	-24.66
4904.00	H	Peak	35.74	5.24	40.98	74.00	-33.02

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12 PEAK POWER SPECTRAL DENSITY

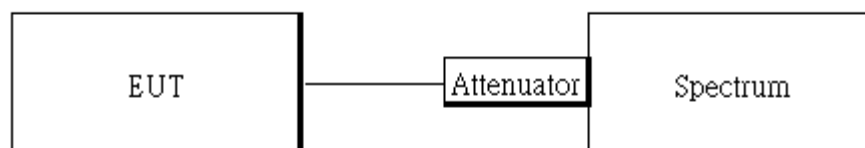
12.1 Standard Applicable

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

12.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	03/21/2017	03/20/2018
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/05/2017	01/04/2018
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018

12.3 Test Set-up



12.4 Measurement Procedure

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 3 kHz & VBW = 10 kHz.
5. For defining Restricted Band Edge Limit:
Set the RBW = 100kHz & VBW = 300 kHz
6. Detector = peak.
7. Sweep time = auto couple.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.
10. Use the peak marker function to determine the maximum amplitude level.

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12.5 Measurement Result

POWER DENSITY 802.11b					
Freq. (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Result
2412	-6.62	0.02	-6.60	8.00	PASS
2437	-6.08	0.02	-6.06	8.00	PASS
2462	-6.96	0.02	-6.94	8.00	PASS

POWER DENSITY 802.11g					
Freq. (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Result
2412	-12.80	0.12	-12.68	8.00	PASS
2437	-8.35	0.12	-8.23	8.00	PASS
2462	-10.84	0.12	-10.72	8.00	PASS

POWER DENSITY 802.11n HT20					
Freq. (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Result
2412	-15.50	0.13	-15.37	8.00	PASS
2437	-9.37	0.13	-9.24	8.00	PASS
2462	-12.06	0.13	-11.93	8.00	PASS

POWER DENSITY 802.11n HT40					
Freq. (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Result
2422	-18.67	0.26	-18.41	8.00	PASS
2437	-14.17	0.26	-13.91	8.00	PASS
2452	-17.05	0.26	-16.79	8.00	PASS

Note:

offset 11.20 dB for SISO mode

*Refer to next page for plots

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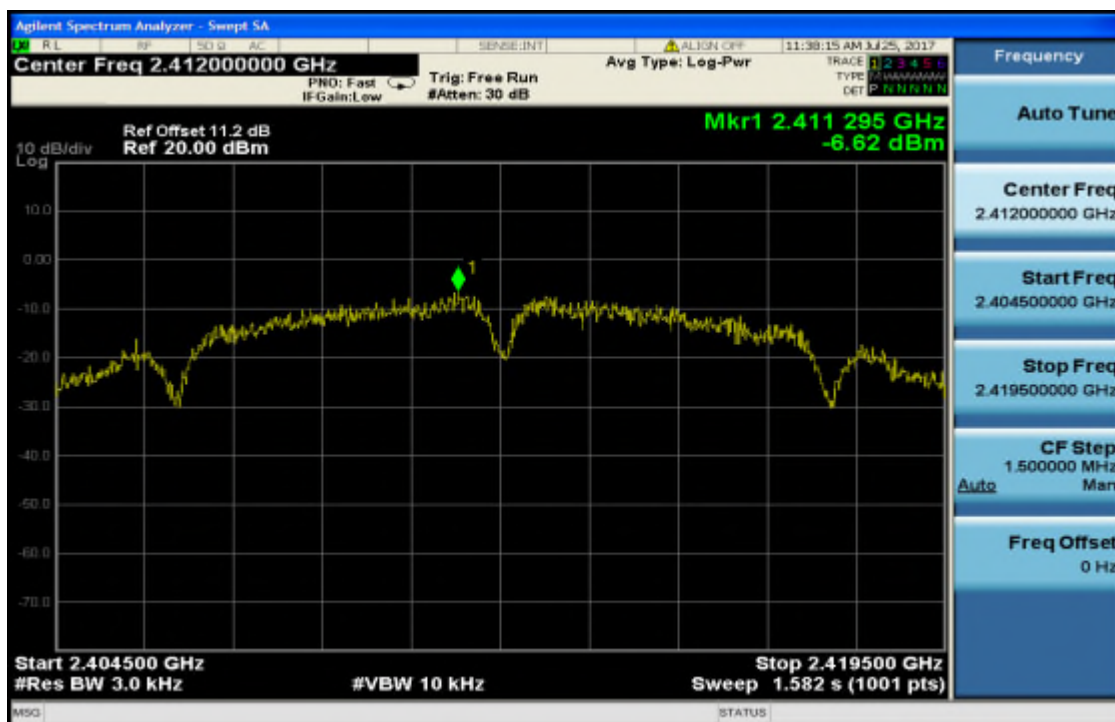
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802.11b

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



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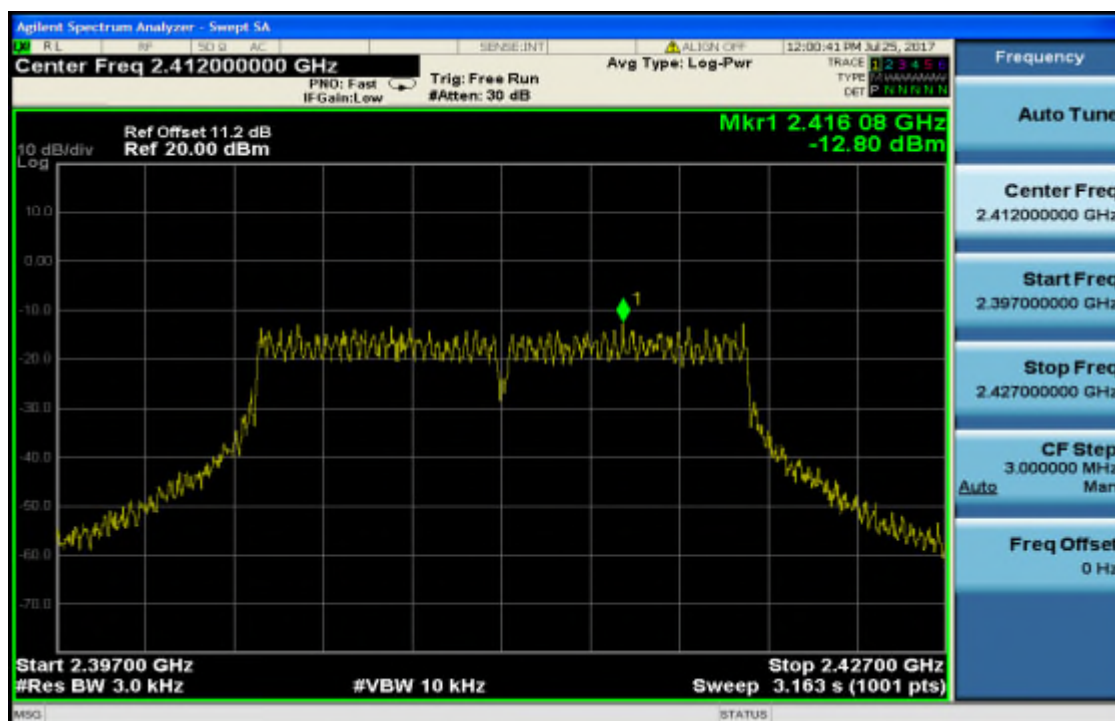
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Power Spectral Density Test Plot (CH-High)



802.11g

Power Spectral Density Test Plot (CH-Low)



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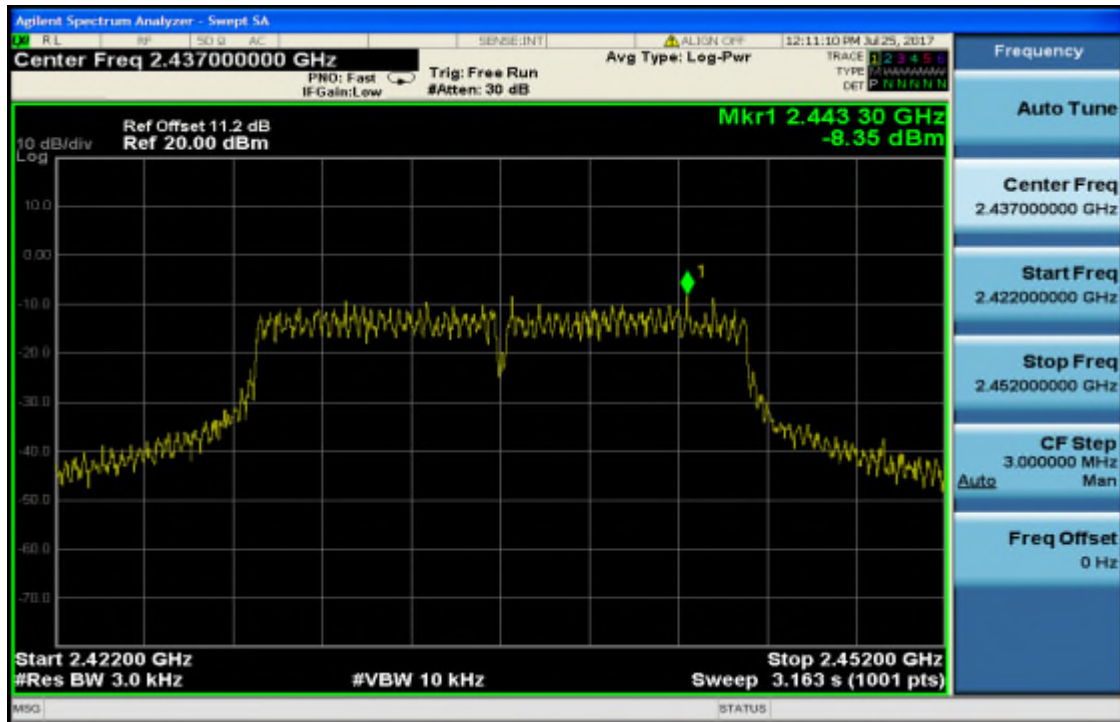
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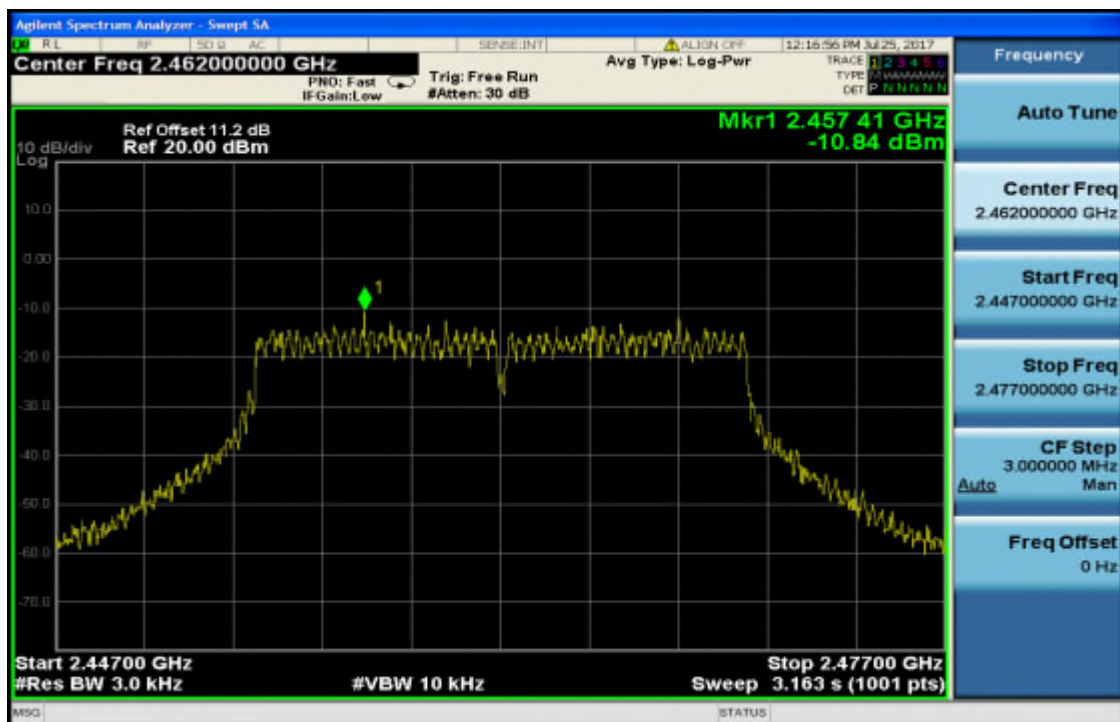
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Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



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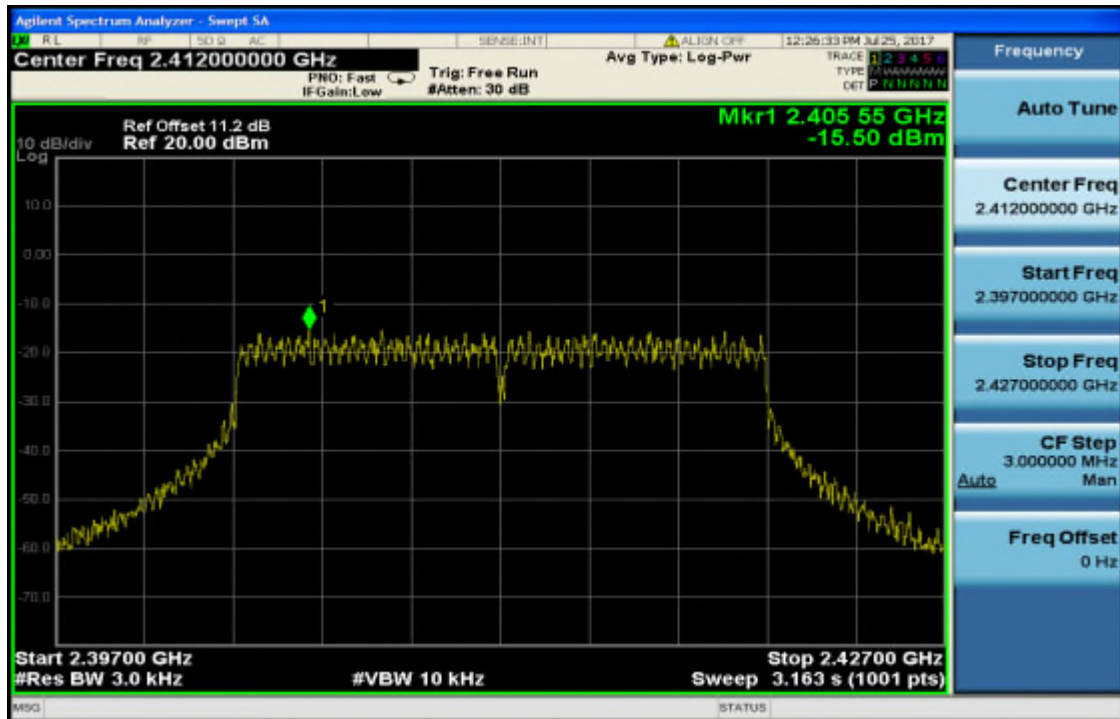
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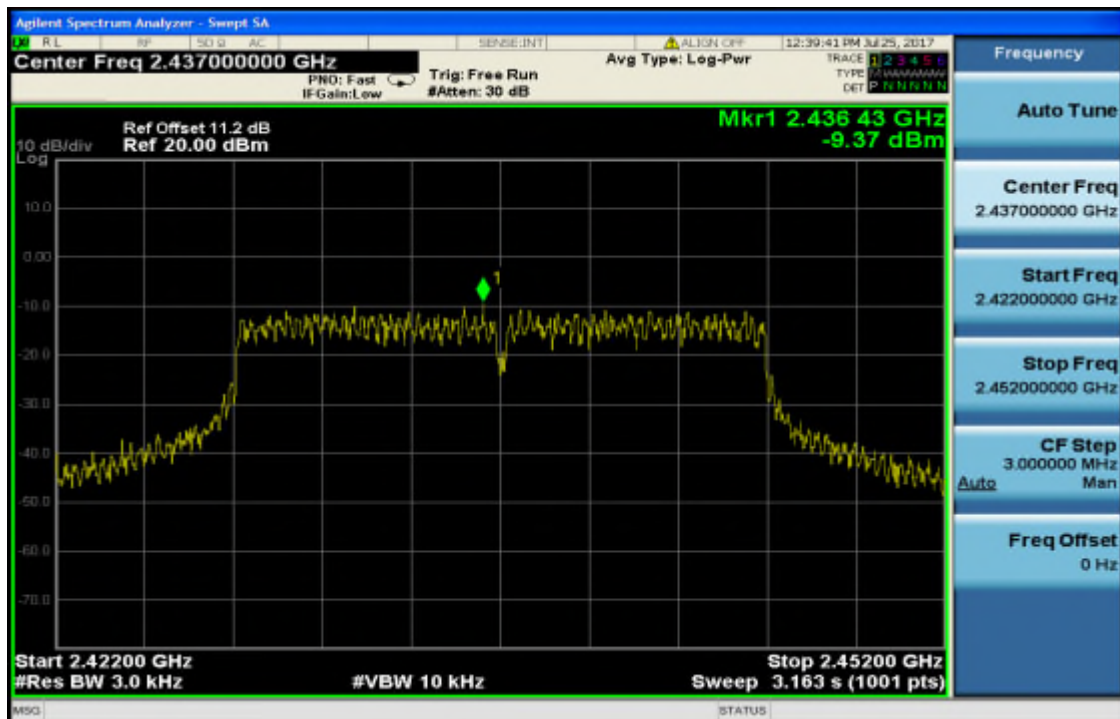
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802.11n_HT20

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



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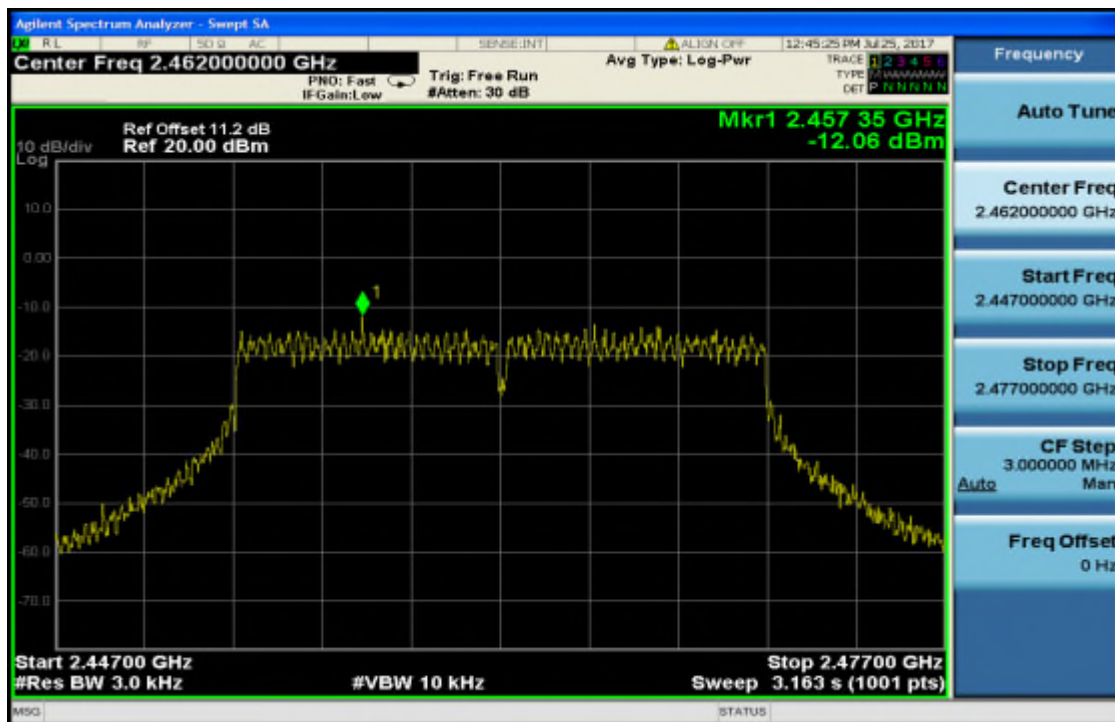
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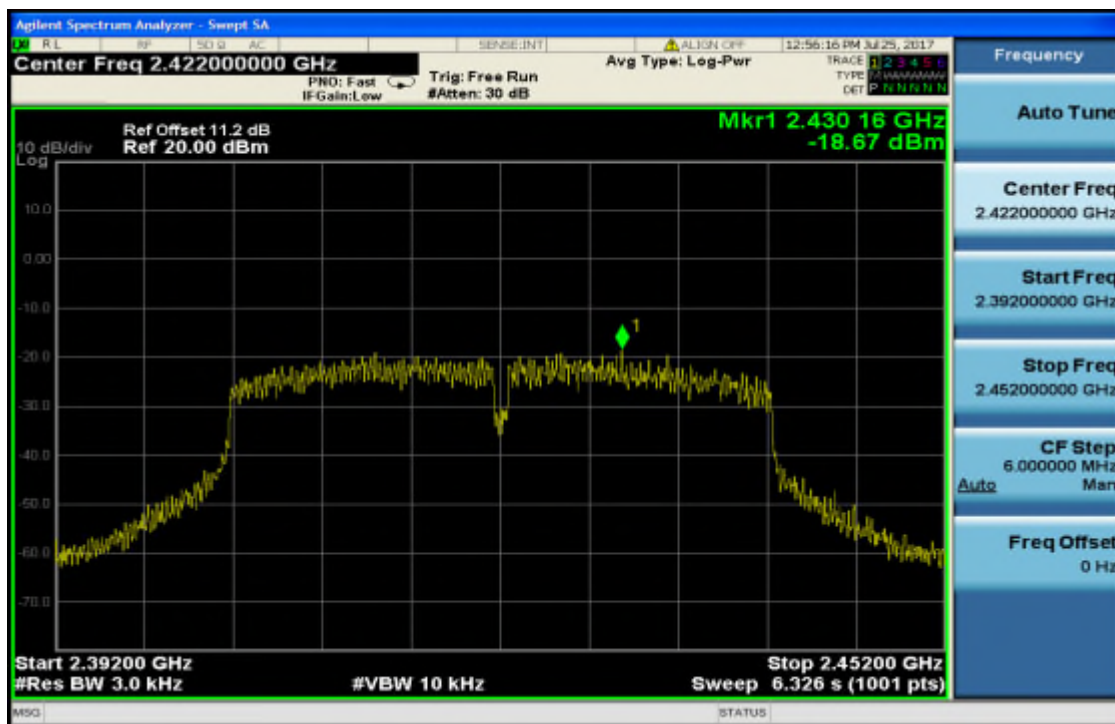
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Power Spectral Density Test Plot (CH-High)



802.11n_HT40

Power Spectral Density Test Plot (CH-Low)



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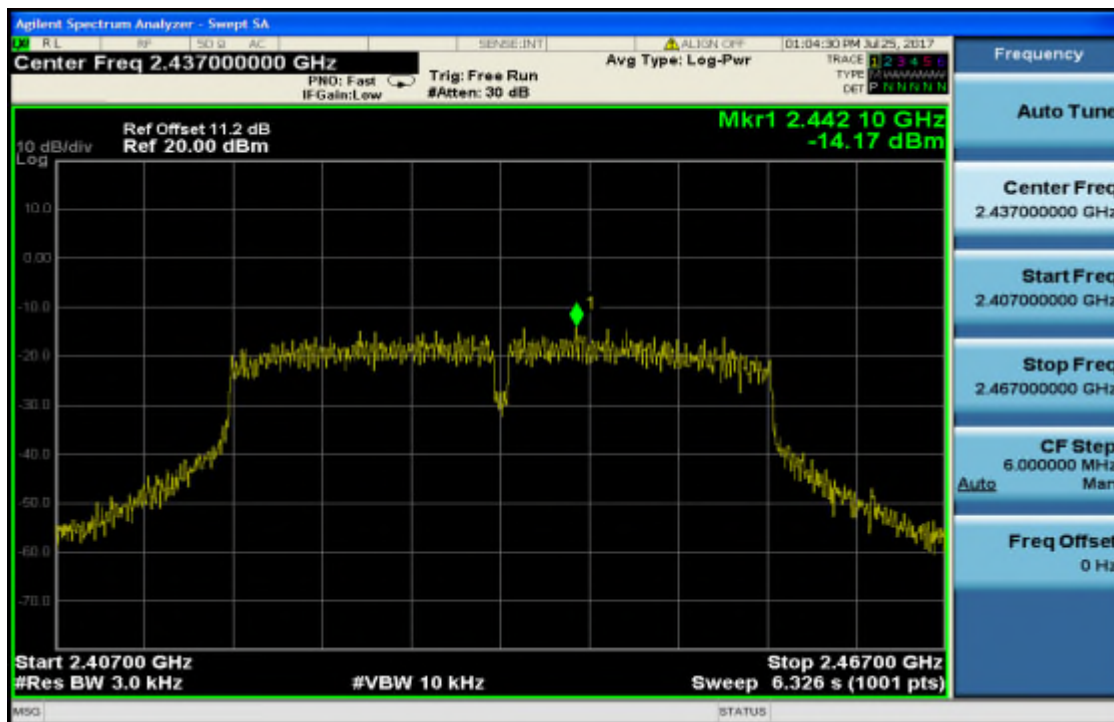
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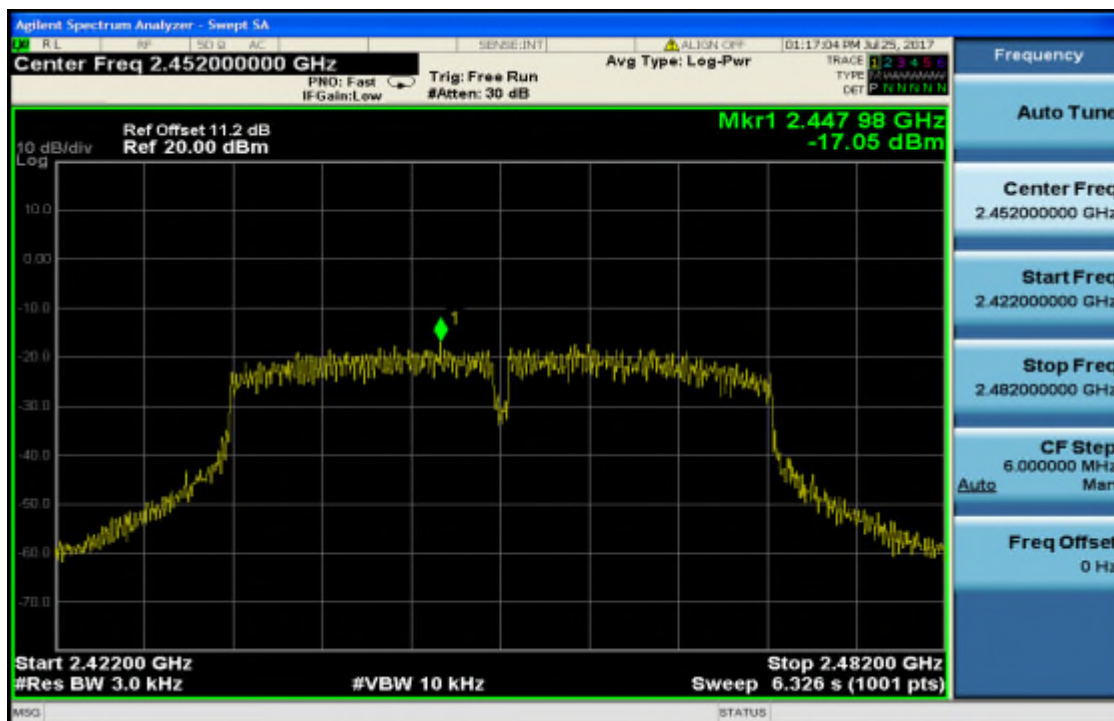
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Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



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13 ANTENNA REQUIREMENT

13.1 Standard Applicable

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

If the transmitting antenna is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

13.2 Antenna Connected Construction

An embedded-in antenna design is used.

The antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.

~ End of Report ~

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