

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C AND RSS 247 REQUIREMENT

OF

Product Name: WLAN/BT USB Module
Brand Name: WIESON
FCC Model No.: WM2020CU, WM2020CU-XX (X=0~9 or A~Z)
IC Model No.: WM2020CU
Model Difference: Different models for market segmentation.
FCC ID: 2AAK6WM2020CU
IC: 20126-WM2020CU
Report No.: ER/2017/20141-02
Issue Date: Sep. 02, 2019
FCC Rule Part: §15.247, Cat: DTS
IC Rule Part: RSS-247 issue 2 Feb. 2017
Prepared for: WIESON INTERNATIONAL CO., LTD.
6F, No.276-1, Sec.1, Datong Rd., Xizhi Dist.,
New Taipei City 221, Taiwan, R.O.C.
Prepared by: SGS Taiwan Ltd.
Electronics & Communication Laboratory
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24803

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VERIFICATION OF COMPLIANCE

Applicant for: WIESON INTERNATIONAL CO., LTD.
6F, No.276-1, Sec.1, Datong Rd., Xizhi Dist., New Taipei City
221, Taiwan, R.O.C.

Product Name: WLAN/BT USB Module

Brand Name: WIESON

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IC Model No.: WM2020CU

Model Difference: Different models for market segmentation.

FCC ID: 2AAK6WM2020CU

IC : 20126-WM2020CU

Report Number: ER/2017/20141-02

Date of Test: Mar. 09, 2017 ~ Mar. 22, 2017

Date of EUT Received: Mar. 09, 2017

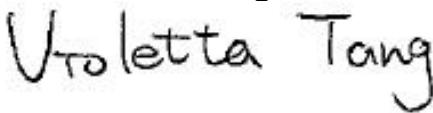
We hereby certify that:

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.

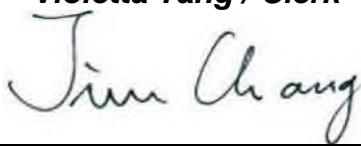
The test results of this report relate only to the tested sample identified in this report.

Test By:**Date:**

Sep. 02, 2019

*Tin Lin / Engineer***Prepared By:****Date:**

Sep. 02, 2019

*Violetta Tang / Clerk***Approved By:****Date:**

Sep. 02, 2019

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Effectuated Page	Issue Date	Revised By
ER/2017/20141	Rev.00	Initial creation of document	All	Mar. 29, 2017	Violetta Tang
ER/2017/20141-02	Rev.01	Add section 1.6 remark and conduction data updated	Page 7, 17, 18	Sep. 02, 2019	Violetta Tang

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1 GENERAL INFORMATION

1.1 Product description

General:

Product Name:	WLAN/BT USB Module
Brand Name:	WIESON
FCC Model No.:	WM2020CU, WM2020CU-XX (X=0~9 or A~Z)
IC Model No.:	WM2020CU
Model Difference:	Different models for market segmentation.
Product SW/HW version:	v1.0 / v1.0
Radio SW/HW version:	N/A / N/A
Test SW Version:	N/A
RF power setting in TEST SW:	N/A
Power Supply:	3.3V from DC Power Supply

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WLAN 2.4GHz:

Wi-Fi	Frequency Range	Channels	Rated Power / (EIRP)	Type of Emission	Modulation Technology
11b/g	2412-2462	11	b: 18.46dBm b: 20.09dBm (EIRP) g: 22.85dBm g: 18.05dBm (EIRP)	b: 13M9G1D g:16M6D1D	DSSS, OFDM
11n	HT20 2412-2462	11	21.84dBm (MIMO Chain 0+1) 20.19dBm (MIMO Chain 0+1) (EIRP)	17M6D1D	OFDM
11n	HT40 2422-2452	7	21.88dBm (MIMO Chain 0+1) 20.40dBm (MIMO Chain 0+1) (EIRP)	36M2D1D	OFDM
Antenna Designation:		1. Dipole Antenna, Antenna Gain: 1.6dBi, Part No.: N/A Supplier: WIESON INTERNATIONAL CO., LTD. 2. PCB Antenna, Antenna Gain: 3.64dBi, Part No.: N/A Supplier: PEGATRON 3. PCB Antenna, ANT1 Gain: 4.51dBi / ANT2 Gain: 3.77dBi, Part No.: 290-30552 / 290-30553 Supplier: PEGATRON 4. PCB Antenna, Antenna Gain: 3.8dBi, Part No.: ALX17P-221XX0-01, Supplier: LYNwave 5. PCB Antenna: ANT1 Gain: 3.13dBi / ANT2 Gain: 3.08dBi Part No.: ALX17P-221XX1-A, Supplier: LYNwave			
Modulation type:		CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM			
Transition Rate:		802.11 b: up to 11 Mbps; 802.11 g: up to 54 Mbps 802.11 n_20MHz: up to 144Mbps 802.11 n_40MHz: up to 300Mbps			

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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

FCC KDB 662911 D01 Multiple Transmitter Output

Canada RSS-247 issue 2 Feb. 2017

Canada RSS-Gen issue 4 Nov. 2014

ANSI C63.10:2013

Note: 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 Designation numbers are: TW0001

ISED#: 4620A.

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.

1.6 Remarks

The original test report ER/2017/20141 will be withdrawn with this test report ER/2017/20141-02 and is no longer valid when the withdrawal occurred.

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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 30MHz. 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 hand-held transmitter (EUT) was rotated through three 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 1.2dB, and 10dB attenuator (SISO) and cable loss 4.2dB, and 10dB attenuator (MIMO).

Offset:

SISO mode offset = RF cable loss (dB) + attenuation factor(dB) = 11.2(dB)

MIMO mode offset = RF cable loss (dB) + attenuation factor(dB) + $10 \log(N_{ANT})$ dB
= 14.2(dB)

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2.5 Configuration of Tested System

Fig. 2-1 Radiated & AC Power Line & Conducted (Antenna Port) Emission

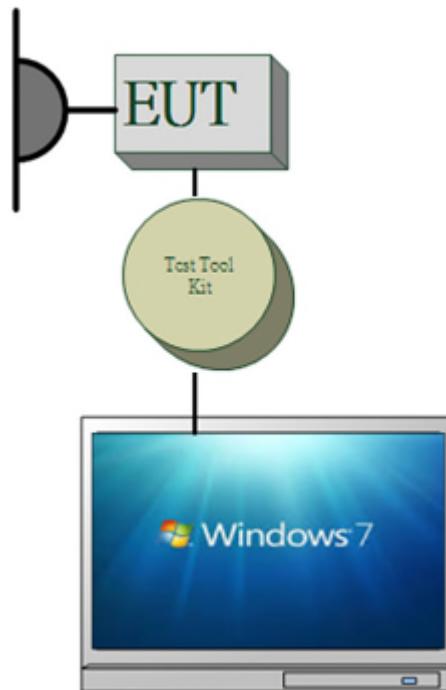


Table 2-1 Equipment Used in Tested System

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

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3 SUMMARY OF TEST RESULTS

FCC Rules / IC Rules	Description Of Test	Result
§15.207(a) RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.247(b) (3) RSS-247 §5.4(4)	Peak Output Power	Compliant
§15.247(a)(2) RSS-247 §5.2 (1) RSS-Gen §6.6	6dB & 99% Emission Bandwidth	Compliant
§15.247(d) RSS-247 §5.5	Conducted Band Edge and Spurious Emission	Compliant
§15.247(d) RSS-247 §5.5	Radiated Band Edge and Spurious Emission	Compliant
§15.247(e) RSS-247 §5.2(2)	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	8	2447 MHz
2	2417 MHz	9	2452 MHz
3	2422 MHz	10	2457 MHz
4	2427 MHz	11	2462 MHz
5	2432 MHz		
6	2437 MHz		
7	2442 MHz		

7 channels are provided for 802.11n_HT40

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

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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)	ANTENNA PORT
802.11g	1 to 11	1, 6, 11	OFDM	6	MAIN
RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1, 6, 11	DSSS	1	MAIN
802.11g	1 to 11	1, 6, 11	OFDM	6	MAIN
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	MCS 8	MIMO
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	MCS 8	MIMO

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 H position was reported.

Pre-scanned was done on Dipole antenna & PCB antenna set 290-30552 / 290-30553, ALX17P-221XX0-01 and ALX17P-221XX1-A. The Dipole & PCB antenna 290-30552 results higher emission at 2.4GHz. Therefore, the completed set of measurement was done on both antennas to be presented on this test report.

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1, 6, 11	DSSS	1	MAIN
802.11g	1 to 11	1, 6, 11	OFDM	6	MAIN
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	MCS 8	MIMO
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	MCS 8	MIMO

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Directional gain (MIMO)

The Tx transmission to construct MIMO operation is cyclic delay diversity, and the following deduction to obtain the array gain of MIMO operation is based on the approach given by KDB 662911 D01.

Array gain = 3.01dBi (peak spectral density, conducted spurious emission)

Gain that is combined with different magnitude of two antennas:

(ii) If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream:

- Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain; or,

$$\bullet \quad \text{DirectionalGain} = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;
 G_k is the gain in dBi of the k th antenna.

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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: +/- 2.87dB
	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: +/- 2.87dB
	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.
EMI Test Receiver	R&S	ESCI7	100760	05/10/2016	05/09/2017
LISN	SCHWARZBECK	NSLK 8127	8127-649	05/16/2016	05/15/2017
LISN	MESS TEC	FCC-LISN-50/250 -25-2-01	4034	05/16/2016	05/15/2017
Coaxial Cables	N/A	WK CE Cable	N/A	11/26/2016	11/25/2017

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.

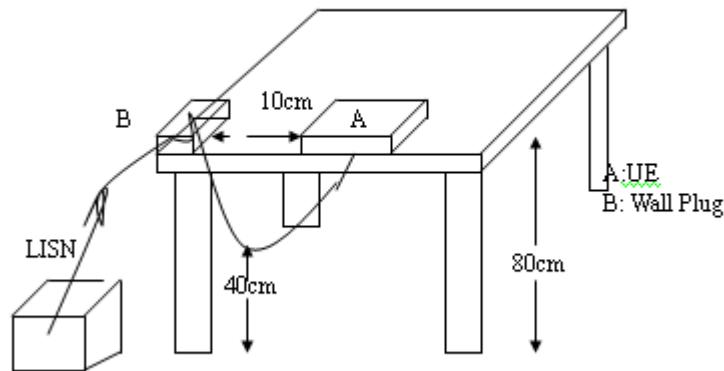
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6.4 Test SET-UP (Block Diagram of Configuration)



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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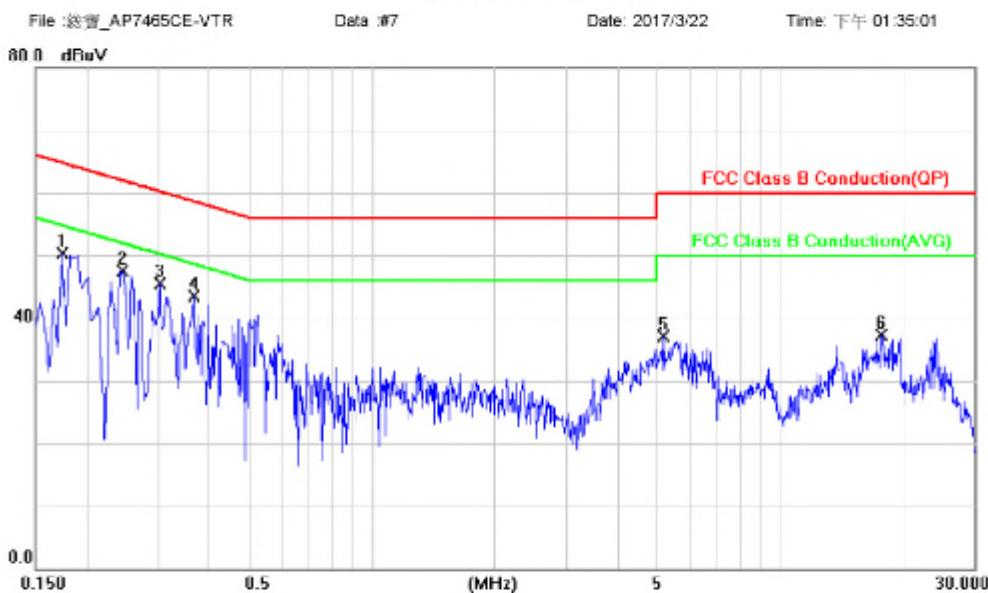
AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode			Test By:	Curry
Temperature:	26 °C	Humidity:	60 %	Phase:	L1 / N

Site Conduction Room
Limit: FCC Class B Conduction(QP)
Mode: Operation mode
Note:

Phase: **L1** Temperature: 20 °C
Power: AC 110V/60Hz Humidity: 58 %

Conducted Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		0.1740	50.17	0.10	50.27	64.77	-14.50	peak	
2 *		0.2460	47.49	0.10	47.59	61.89	-14.30	peak	
3		0.3020	45.34	0.11	45.45	60.19	-14.74	peak	
4		0.3660	43.31	0.12	43.43	58.59	-15.16	peak	
5		5.2180	36.74	0.32	37.06	60.00	-22.94	peak	
6		17.7060	36.82	0.44	37.26	60.00	-22.74	peak	

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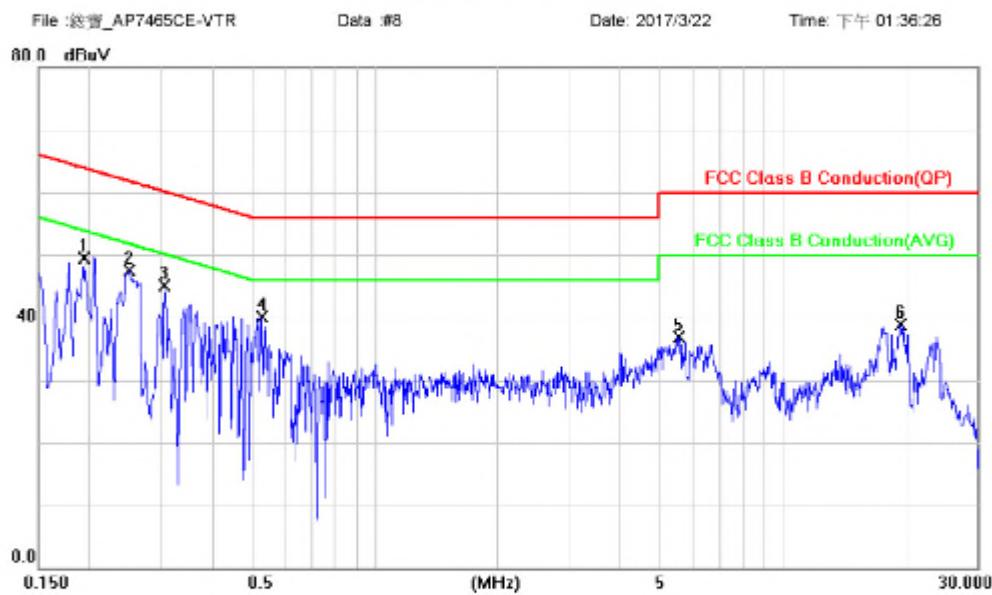
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Site Conduction Room
Limit: FCC Class B Conduction(QP)
Mode: Operation mode
Note:

Phase: **N** Temperature: 20 °C
Power: AC 110V/60Hz Humidity: 58 %

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Defector	Comment
		MHz	dBuV	dB	dBuV	dB			
1		0.1940	49.35	0.08	49.43	63.86	-14.43	peak	
2 *		0.2500	47.50	0.09	47.59	61.76	-14.17	peak	
3		0.3060	44.94	0.09	45.03	60.08	-15.05	peak	
4		0.5300	40.03	0.10	40.13	56.00	-15.87	peak	
5		5.5660	36.53	0.30	36.83	60.00	-23.17	peak	
6		19.5060	38.53	0.46	38.99	60.00	-21.01	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	99.29	0.03
802.11g	96.43	0.16
802.11n_20	92.42	0.34
802.11n_40	86.51	0.63

$$b = 99.29\%, g = 96.43\%, n_ht_20 = 92.42\%, n_ht40 = 86.51\%$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9929) = 0.03$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9643) = 0.16$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9242) = 0.34$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.8651) = 0.63$$

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7.1 DUTY CYCLE TEST SIGNAL Measurement Result

802.11 b



802.11 g



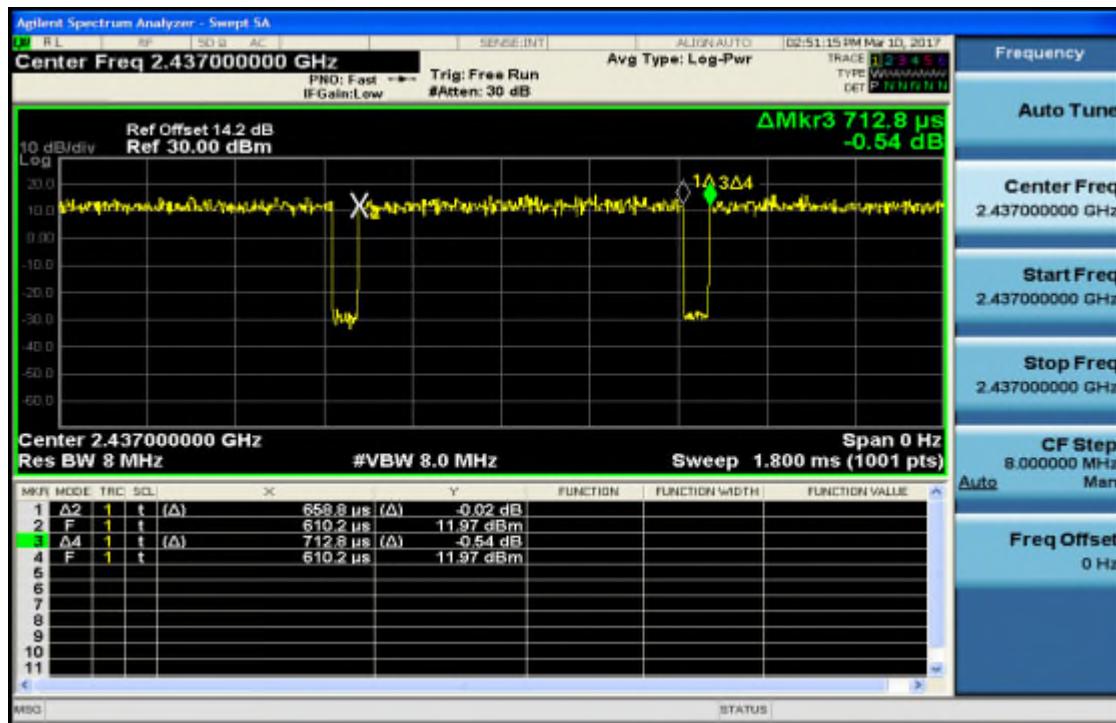
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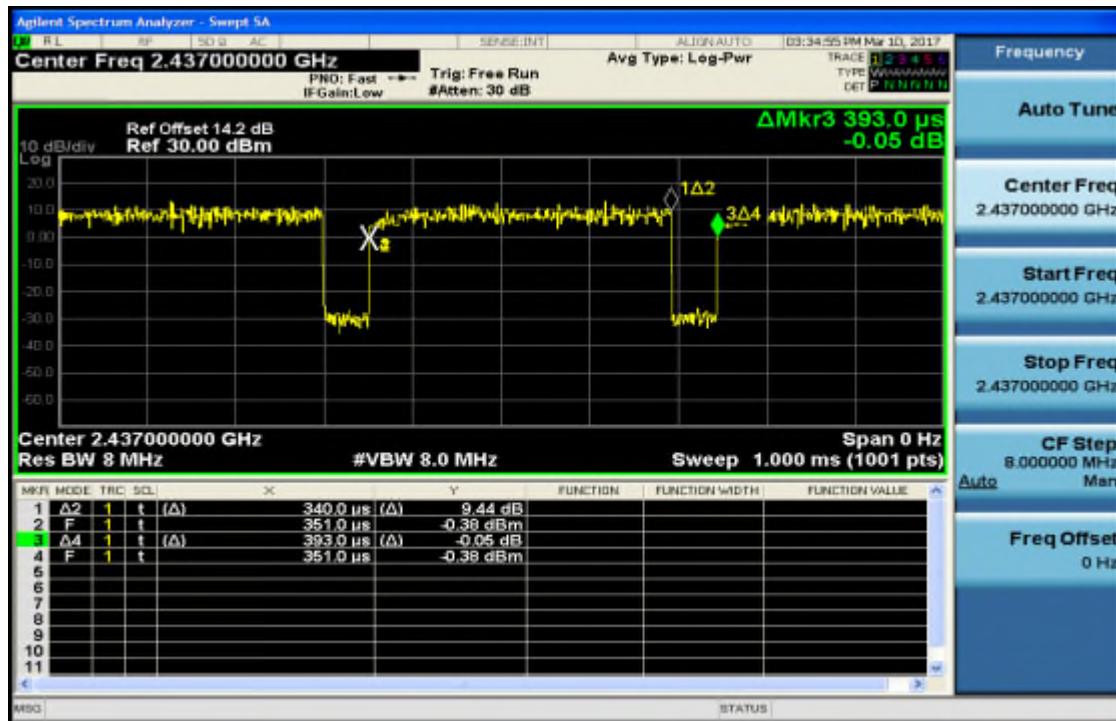
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802.11 n_20 MHz



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.

Per 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.

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.

Note:

Main Antenna Gain:	4.51 dBi
Aux1 Antenna Gain:	3.77 dBi
Aux2 Antenna Gain:	0.00 dBi
Aux3 Antenna Gain:	0.00 dBi

Number Antenna:	2 pcs
-----------------	-------

Limit: 30 dBm

The antenna gain is grater than 6dBi in MIMO mode the limit reduce as below:

Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

Effective Legacy Gain (dBi) = 4.51+3.01=7.52dBi

Limit: 30dBm - (7.52- 6dBi)=28.48dBm

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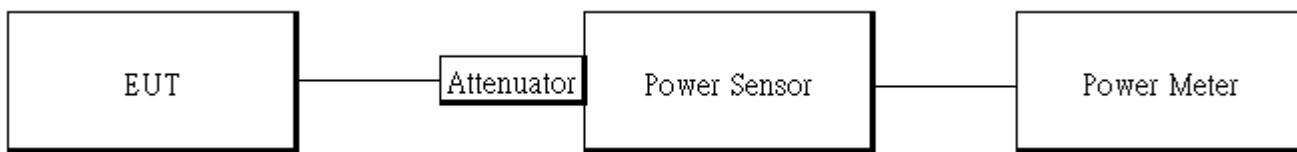
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8.2 Measurement Equipment Used

SGS Conducted Room					
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	02/26/2017	02/25/2018
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	05/17/2016	05/16/2017

8.3 Test Set-up

Power Meter:



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.

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8.5 Measurement Result

802.11b Main						
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
1	2412	1	18.32	67.92	1 Watt = 30.00 dBm	PASS
6	2437	1	18.46	70.15	1 Watt = 30.00 dBm	PASS
11	2462	1	18.36	68.55	1 Watt = 30.00 dBm	PASS

802.11b Main						
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
1	2412	1	15.56	35.97	1 Watt = 30.00 dBm	PASS
6	2437	1	15.58	36.14	1 Watt = 30.00 dBm	PASS
11	2462	1	15.51	35.56	1 Watt = 30.00 dBm	PASS

802.11g Main						
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
1	2412	6	22.46	176.20	1 Watt = 30.00 dBm	PASS
6	2437	6	22.85	192.75	1 Watt = 30.00 dBm	PASS
11	2462	6	22.43	174.98	1 Watt = 30.00 dBm	PASS

802.11g Main						
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
1	2412	6	13.52	22.49	1 Watt = 30.00 dBm	PASS
6	2437	6	13.54	22.59	1 Watt = 30.00 dBm	PASS
11	2462	6	13.53	22.54	1 Watt = 30.00 dBm	PASS

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802.11n_HT20M MIMO

CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Total Peak Output Power (mW)	Limit	RESULT
			CH 0	CH 1				
1	2412	MCS8	18.56	18.65	21.62	145.06	1 Watt = 28.48 dBm	PASS
6	2437	MCS8	18.62	18.78	21.71	148.29	1 Watt = 28.48 dBm	PASS
11	2462	MCS8	18.72	18.94	21.84	152.82	1 Watt = 28.48 dBm	PASS

802.11n_HT20M MIMO

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
			CH 0	CH 1				
1	2412	MCS8	9.54	9.58	12.57	18.07	1 Watt = 28.48 dBm	PASS
6	2437	MCS8	9.66	9.58	12.63	18.33	1 Watt = 28.48 dBm	PASS
11	2462	MCS8	9.34	9.96	12.67	18.50	1 Watt = 28.48 dBm	PASS

802.11n_HT40M MIMO

CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Total Peak Output Power (mW)	Limit	RESULT
			CH 0	CH 1				
3	2422	MCS8	18.76	18.89	21.84	152.61	1 Watt = 28.48 dBm	PASS
6	2437	MCS8	18.86	18.87	21.88	154.00	1 Watt = 28.48 dBm	PASS
9	2452	MCS8	18.49	18.96	21.74	149.34	1 Watt = 28.48 dBm	PASS

802.11n_HT40M MIMO

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
			CH 0	CH 1				
3	2422	MCS8	9.57	9.66	12.63	18.30	1 Watt = 28.48 dBm	PASS
6	2437	MCS8	9.78	9.96	12.88	19.41	1 Watt = 28.48 dBm	PASS
9	2452	MCS8	9.43	9.77	12.61	18.25	1 Watt = 28.48 dBm	PASS

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

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EIRP Measurement:

802.11b Main							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
1	2412	1	15.56	4.51	20.07	4W= 36 dBm	PASS
6	2437	1	15.58	4.51	20.09	4W= 36 dBm	PASS
11	2462	1	15.51	4.51	20.02	4W= 36 dBm	PASS

802.11g Main							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
1	2412	6	13.52	4.51	18.03	4W= 36 dBm	PASS
6	2437	6	13.54	4.51	18.05	4W= 36 dBm	PASS
11	2462	6	13.53	4.51	18.04	4W= 36 dBm	PASS

802.11n-HT20M MIMO										
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Avg. Output Power (dBm)	Total Peak Output Power (mW)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
			CH 0	CH 1						
1	2412	MCS8	9.54	9.58	12.57	18.07	7.52	20.09	4W= 36 dBm	PASS
6	2437	MCS8	9.66	9.58	12.63	18.33	7.52	20.15	4W= 36 dBm	PASS
11	2462	MCS8	9.34	9.96	12.67	18.50	7.52	20.19	4W= 36 dBm	PASS

802.11n-HT40M MIMO										
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Avg. Output Power (dBm)	Total Peak Output Power (mW)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
			CH 0	CH 1						
3	2422	MCS8	9.57	9.66	12.63	18.30	7.52	20.15	4W= 36 dBm	PASS
6	2437	MCS8	9.78	9.96	12.88	19.41	7.52	20.40	4W= 36 dBm	PASS
9	2452	MCS8	9.43	9.77	12.61	18.25	7.52	20.13	4W= 36 dBm	PASS

* Note: EIRP = Average Power + Gain

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9 6DB & 99% BANDWIDTH MEASUREMENT

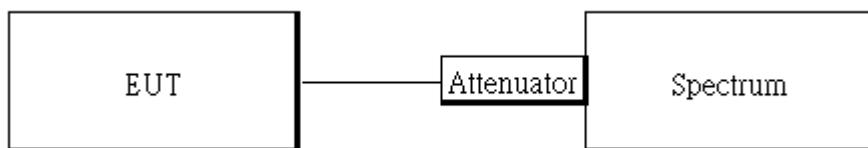
9.1 Standard Applicable

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

9.2 Measurement Equipment Used

SGS Conducted Room					
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	02/26/2017	02/25/2018
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	05/17/2016	05/16/2017

9.3 Test Set-up



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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

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	9140	> 500	PASS
2437	9139	> 500	PASS
2462	9139	> 500	PASS

802.11g Main

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16570	> 500	PASS
2437	16560	> 500	PASS
2462	16550	> 500	PASS

802.11_n_HT20 Main

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17710	> 500	PASS
2437	17680	> 500	PASS
2462	17680	> 500	PASS

802.11_n_HT20 Aux1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17720	> 500	PASS
2437	17750	> 500	PASS
2462	17740	> 500	PASS

802.11_n_HT40 Main

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	36490	> 500	PASS
2437	36590	> 500	PASS
2452	36490	> 500	PASS

802.11_n_HT40 Aux1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	36500	> 500	PASS
2437	36510	> 500	PASS
2452	36550	> 500	PASS

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99% Bandwidth

802.11b Main	
Freq. (MHz)	99% BW (MHz)
2412	13.209
2437	13.555
2462	13.923

802.11g Main	
Freq. (MHz)	99% BW (MHz)
2412	16.555
2437	16.463
2462	16.476

802.11n_HT20M Main	
Freq. (MHz)	99% BW (MHz)
2412	17.614
2437	17.631
2462	17.605

802.11n_HT20M Aux1	
Freq. (MHz)	99% BW (MHz)
2412	17.562
2437	17.586
2462	17.562

802.11n_HT40M Main	
Freq. (MHz)	99% BW (MHz)
2422	36.226
2437	36.222
2452	36.229

802.11n_HT40M Aux1	
Freq. (MHz)	99% BW (MHz)
2422	36.230
2437	36.130
2452	36.192

*Refer to next page for plots

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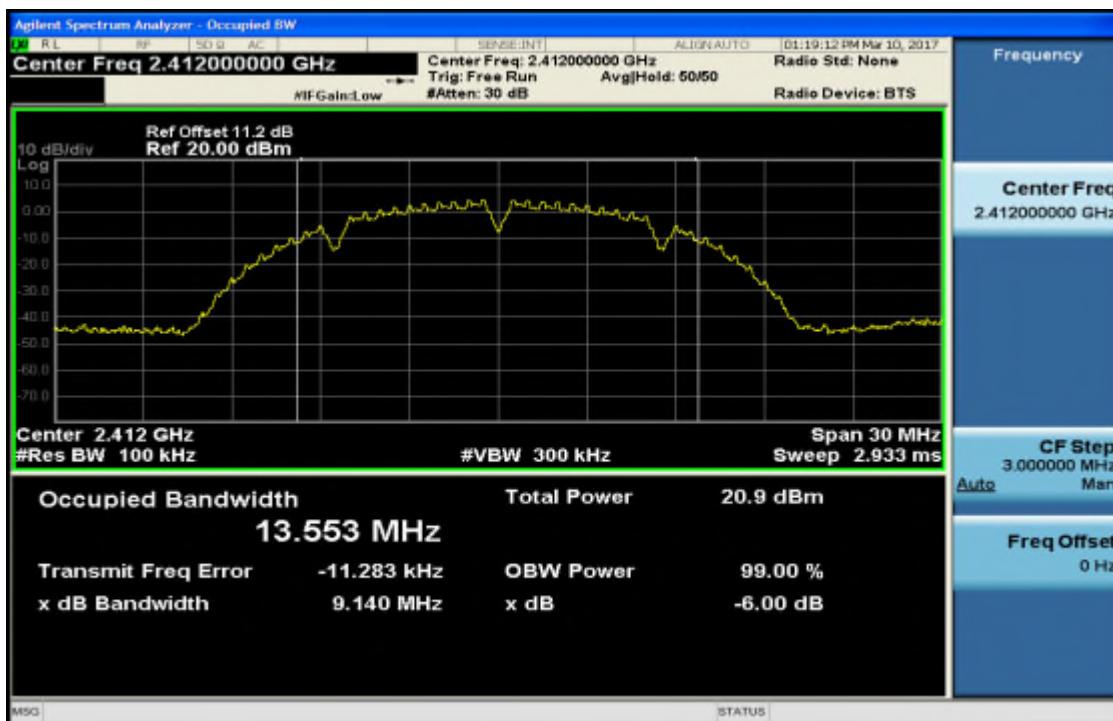
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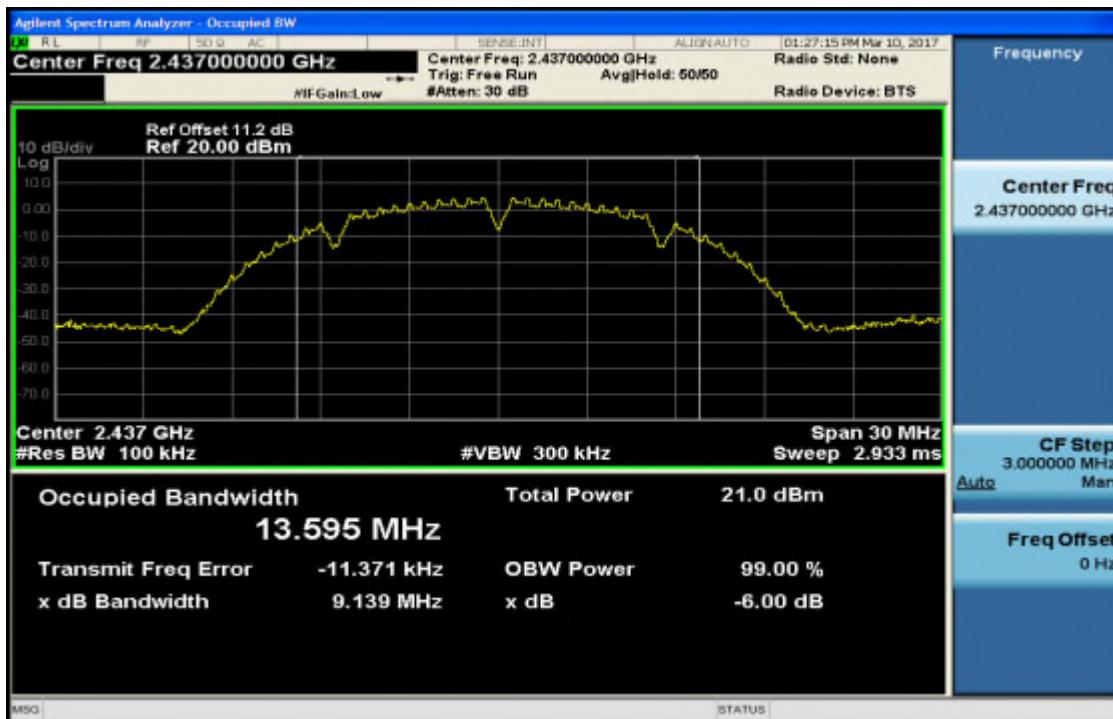
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802.11b (Main)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



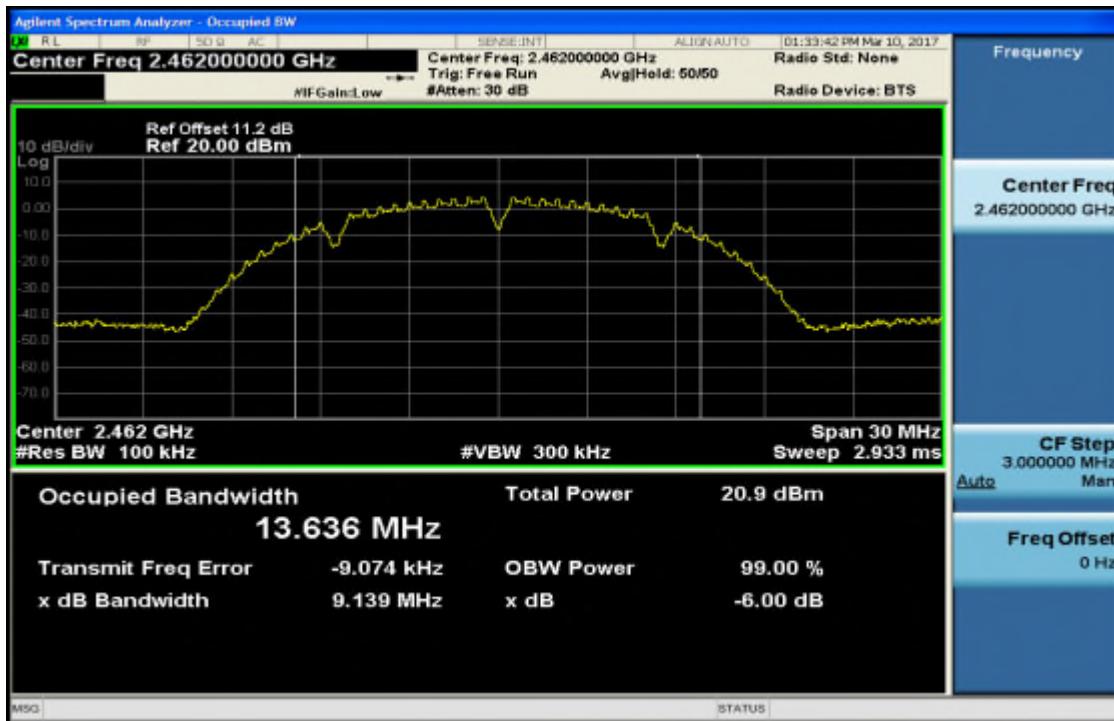
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6dB Band Width Test Data CH-High



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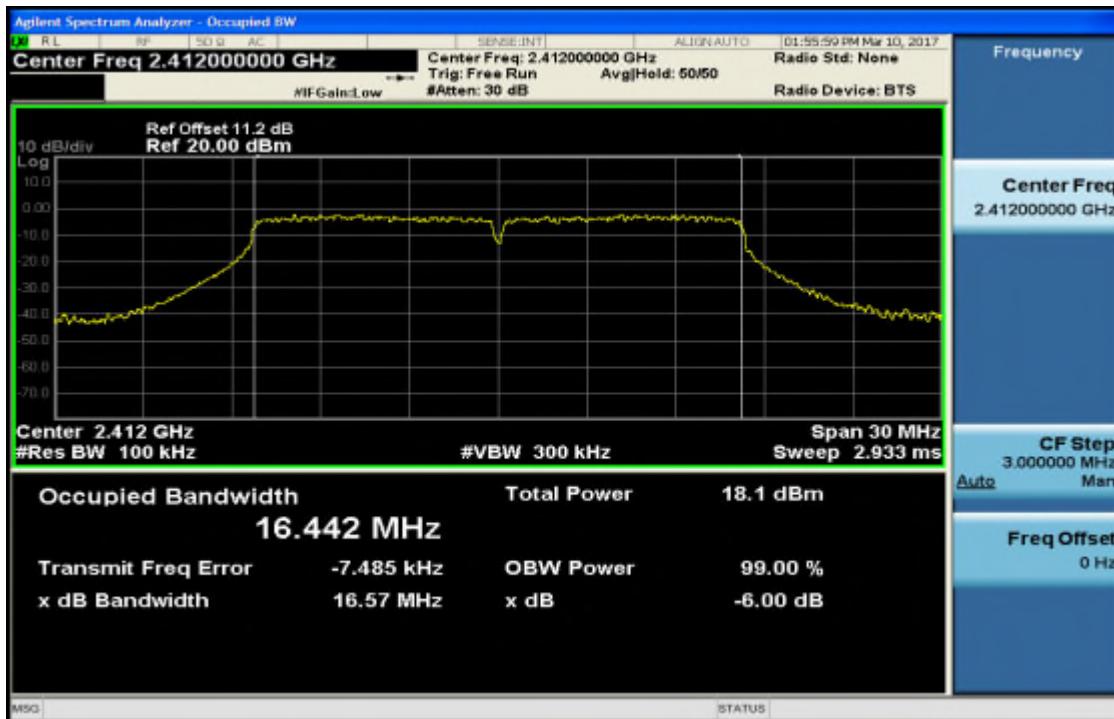
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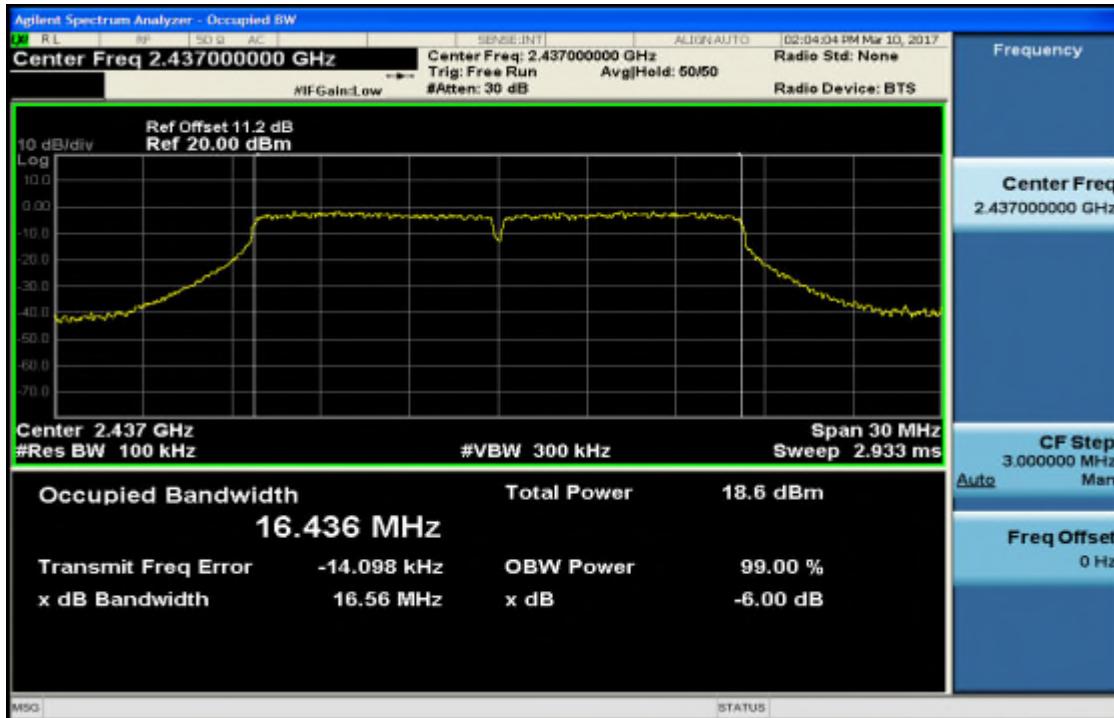
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802.11g (Main)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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6dB Band Width Test Data CH-High



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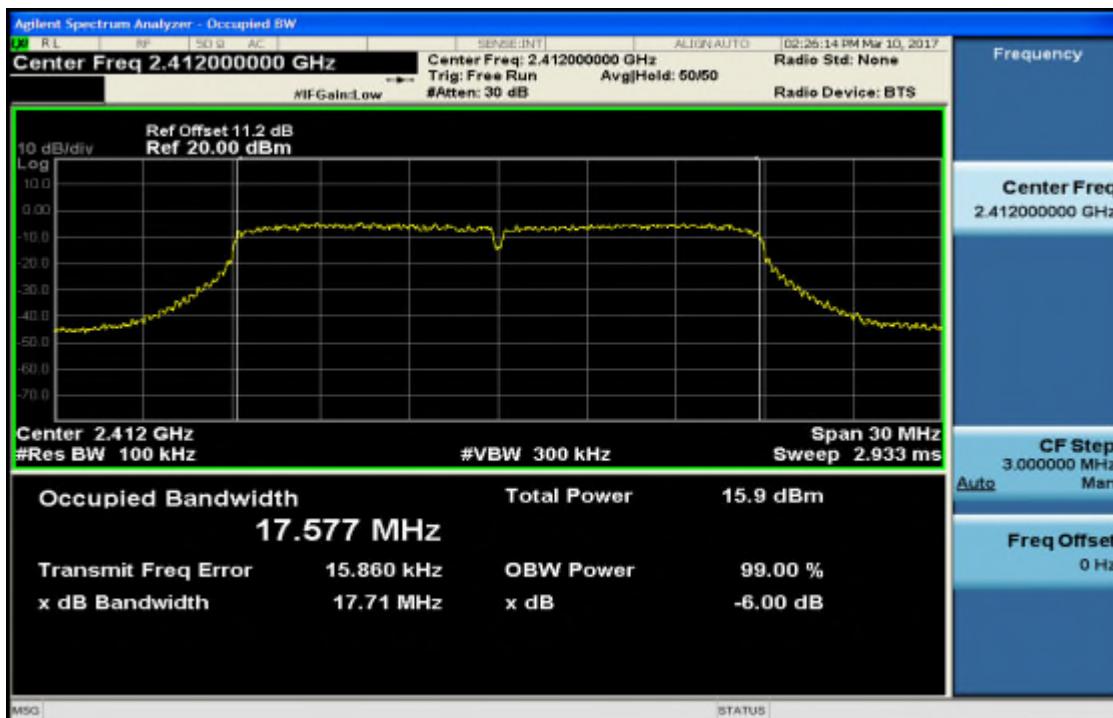
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802.11n_20M (Main)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



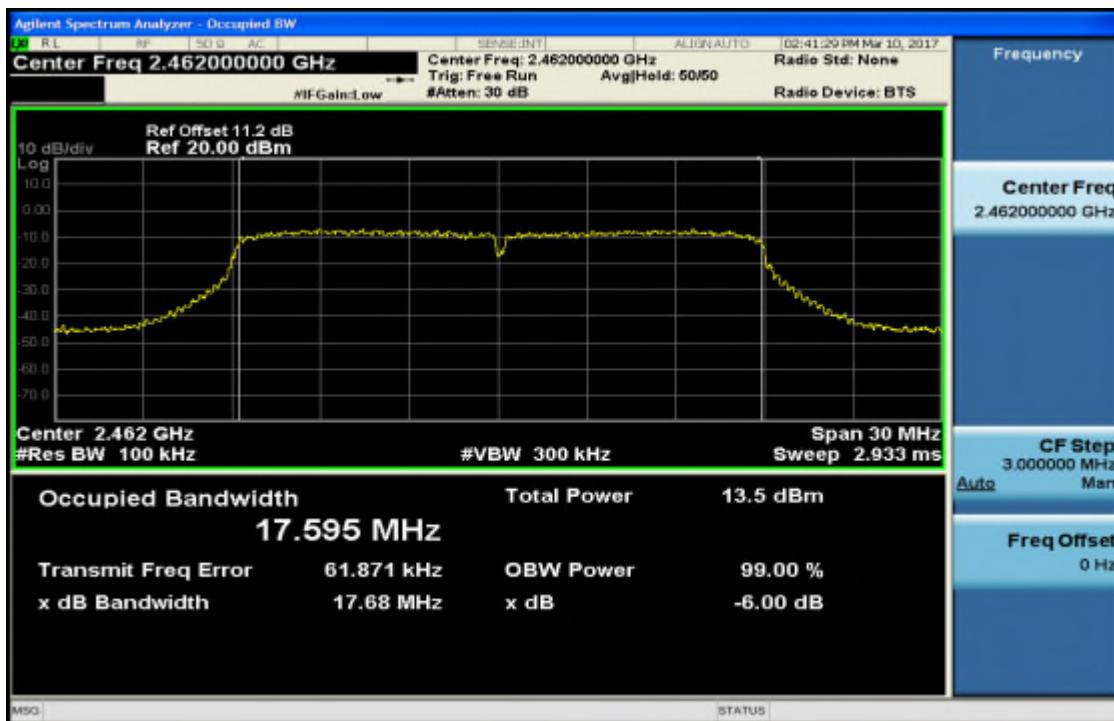
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6dB Band Width Test Data CH-High



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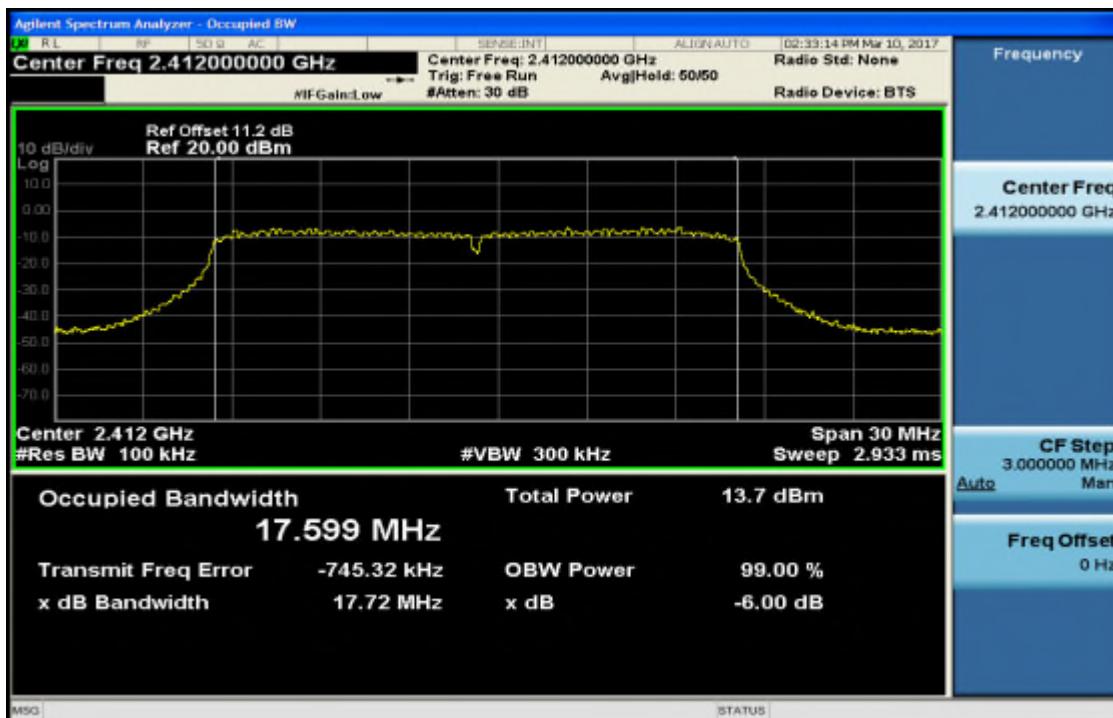
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802.11n_20M (Aux)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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6dB Band Width Test Data CH-High



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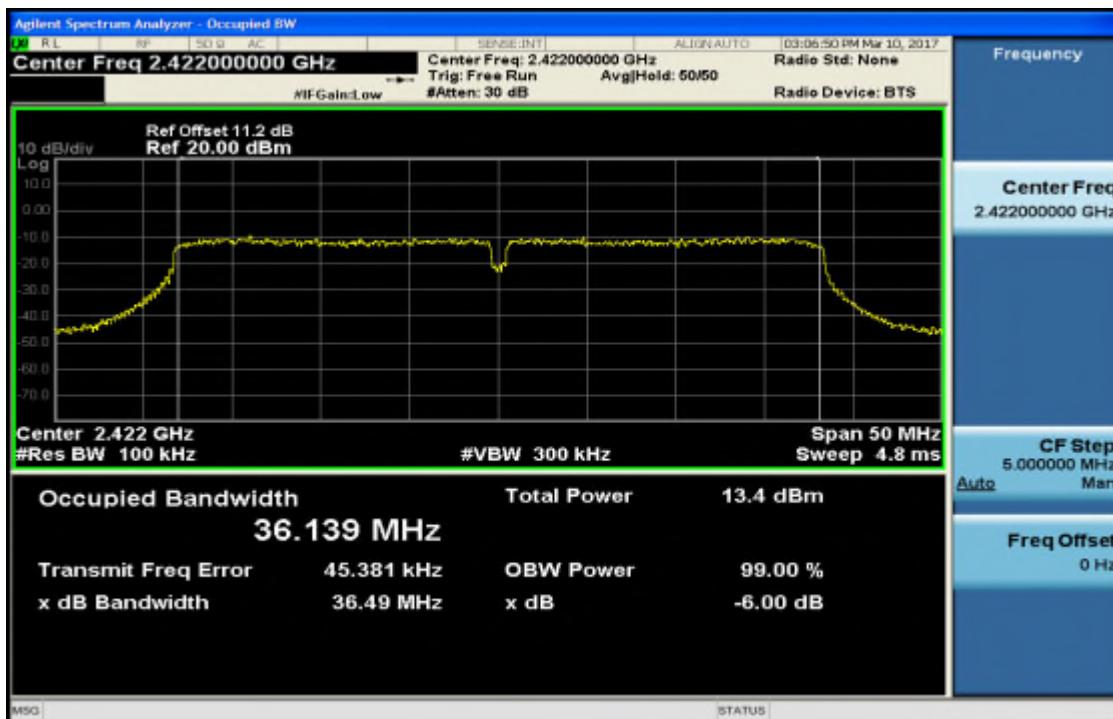
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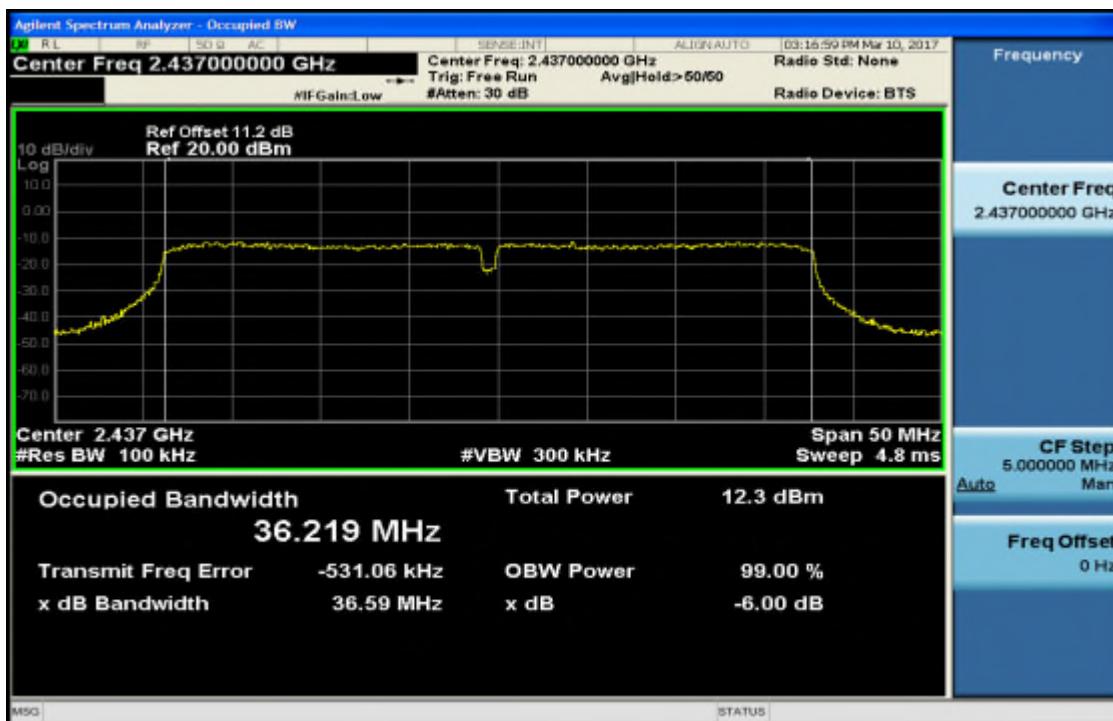
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802.11n_40M (Main)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

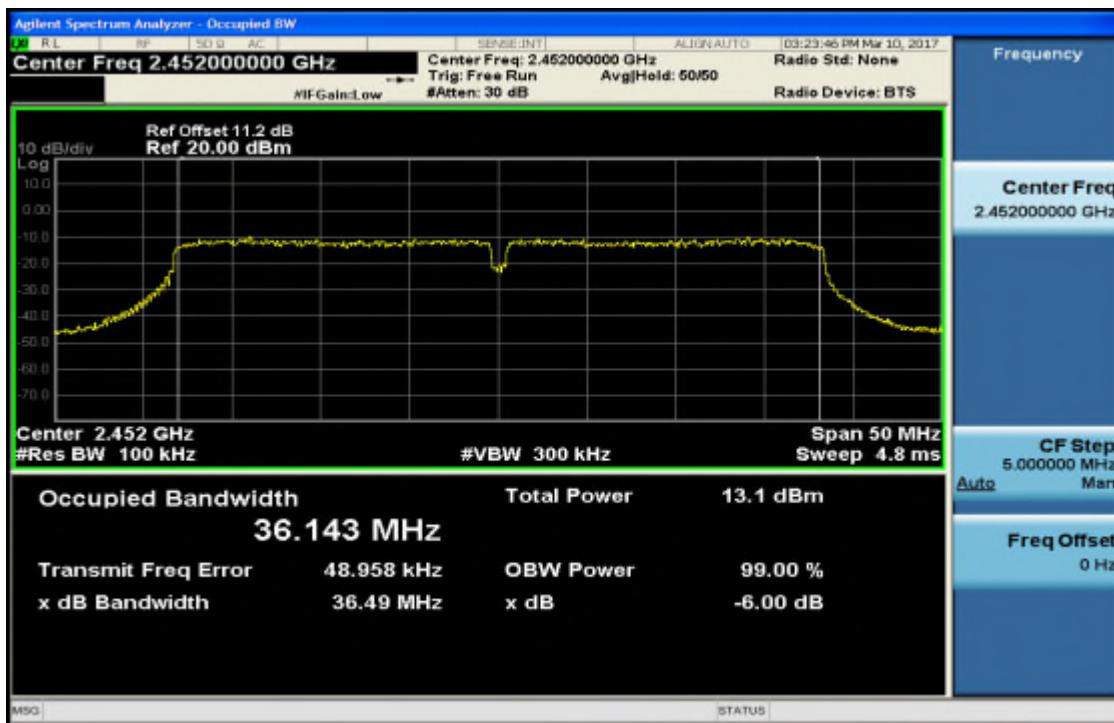


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6dB Band Width Test Data CH-High



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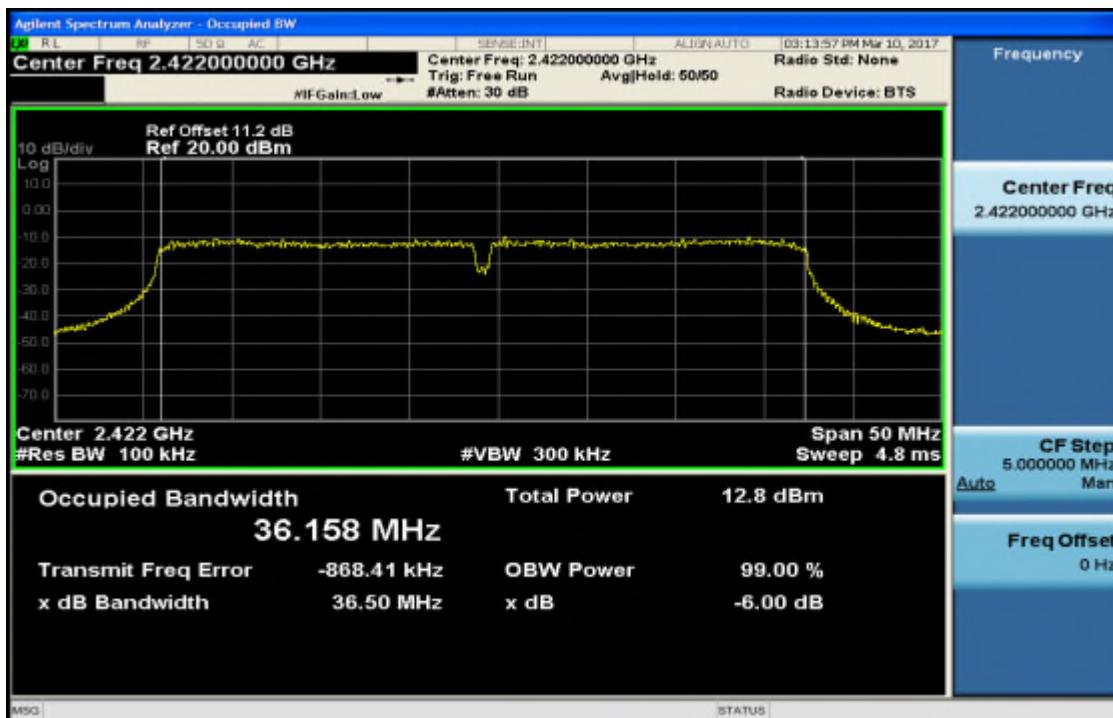
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802.11n_40M (Aux)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



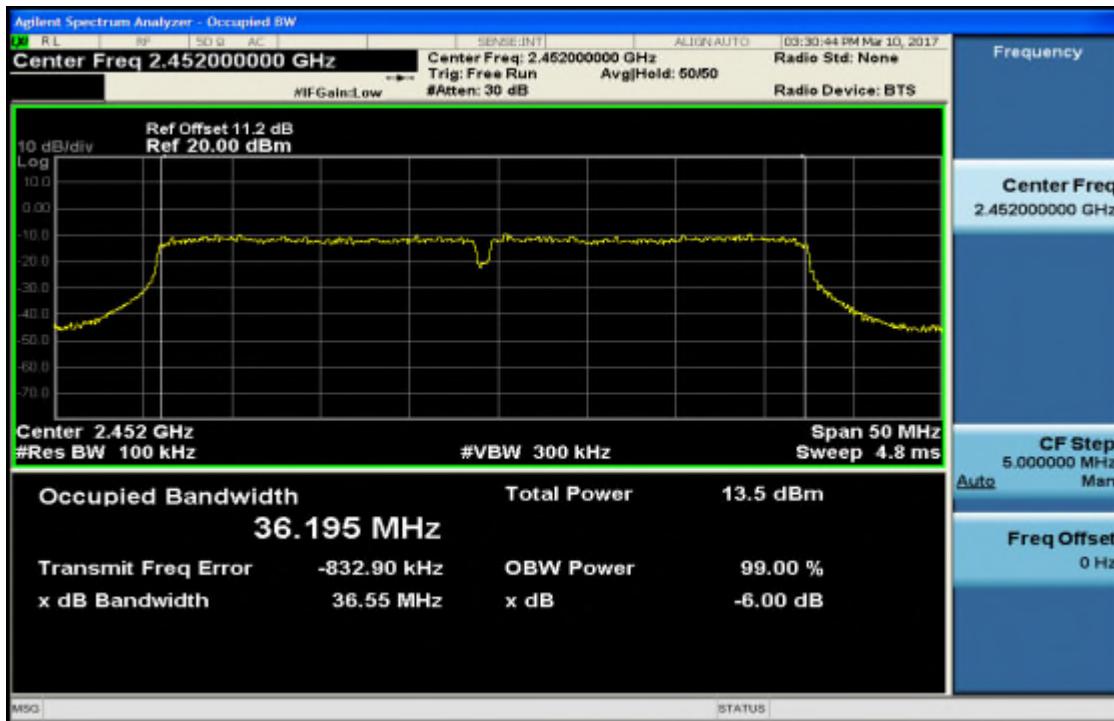
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6dB Band Width Test Data CH-High



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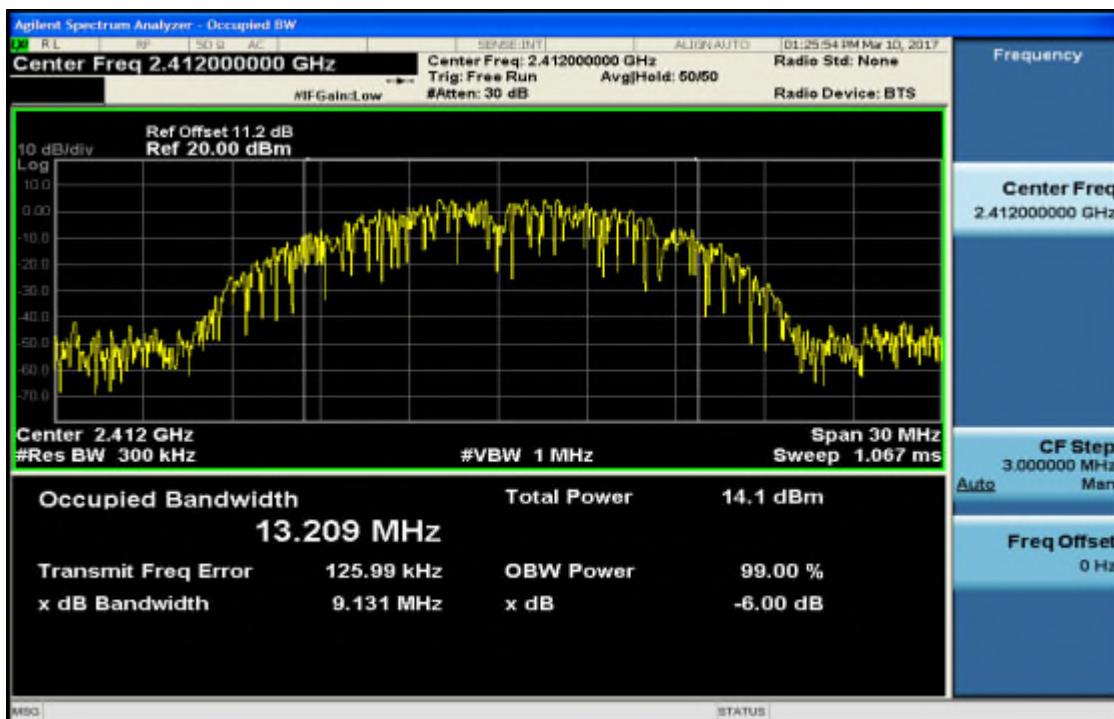
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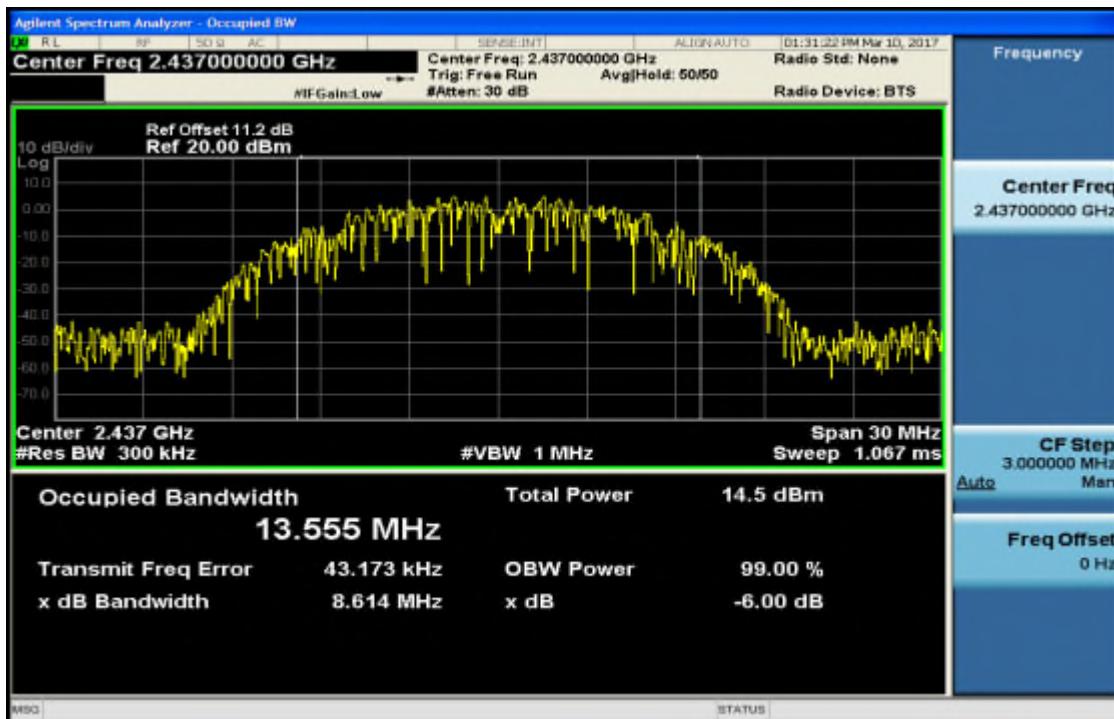
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802.11b (Main)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



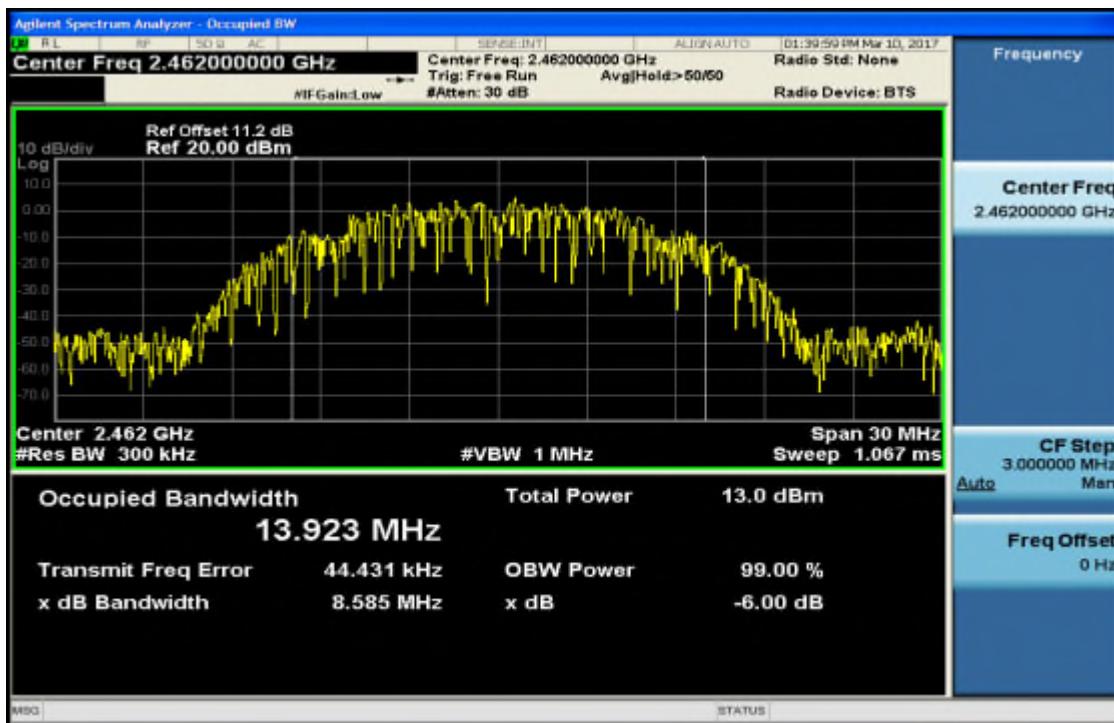
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99% Band Width Test Data CH-High



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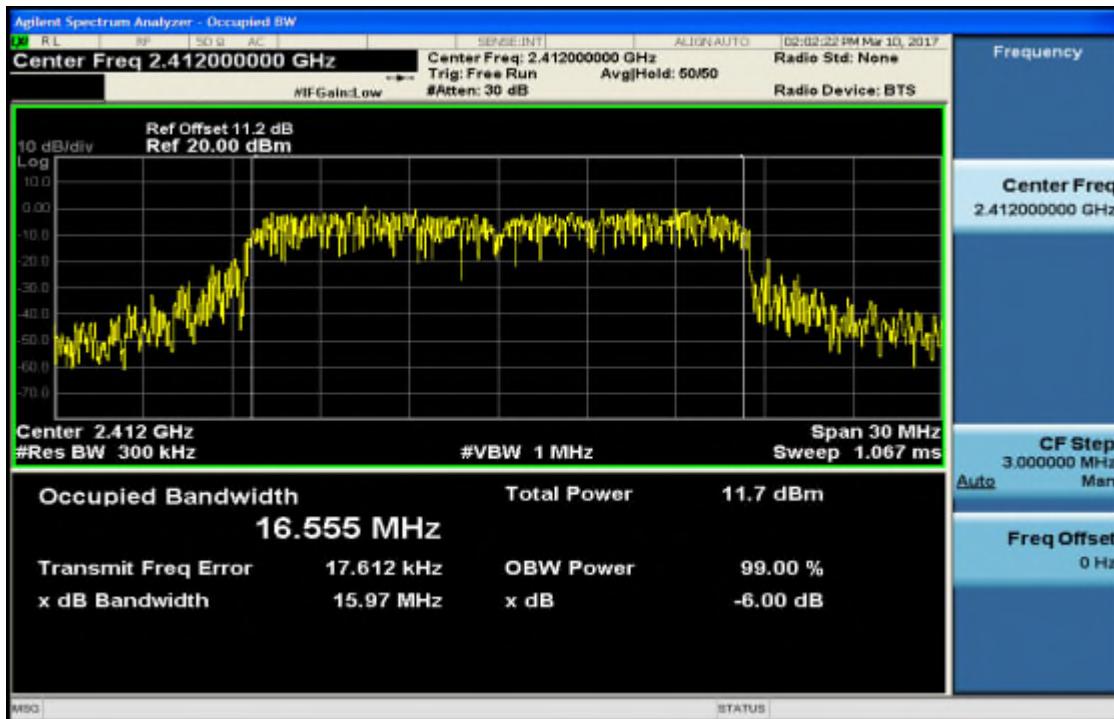
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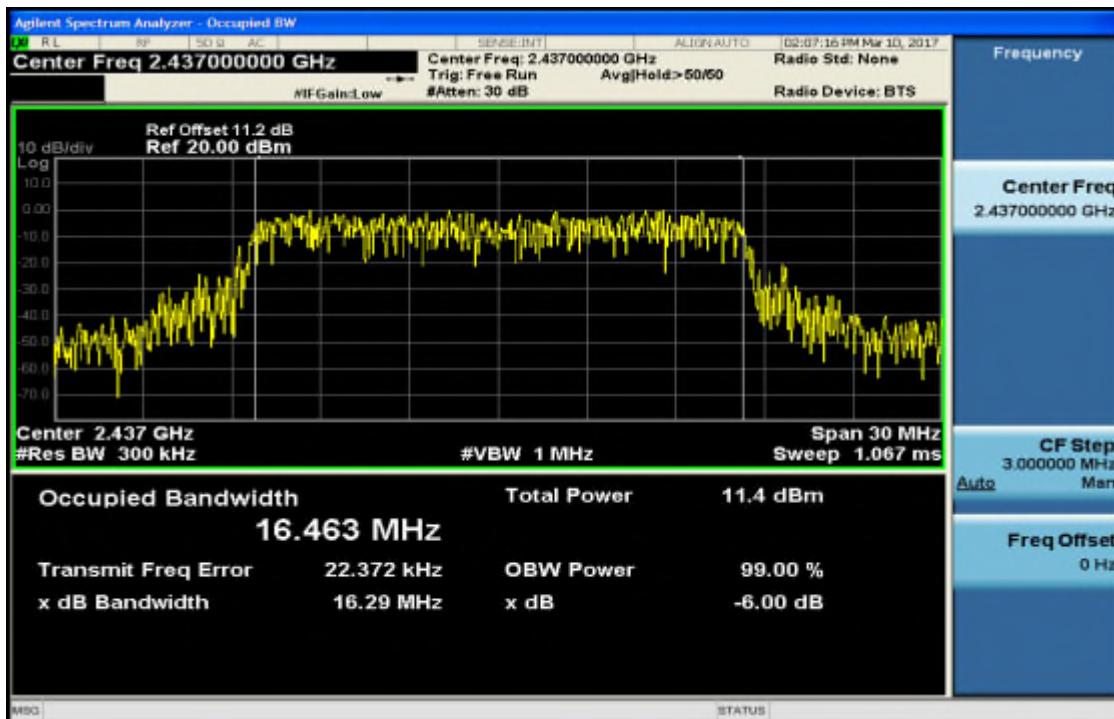
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802.11g (Main)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid

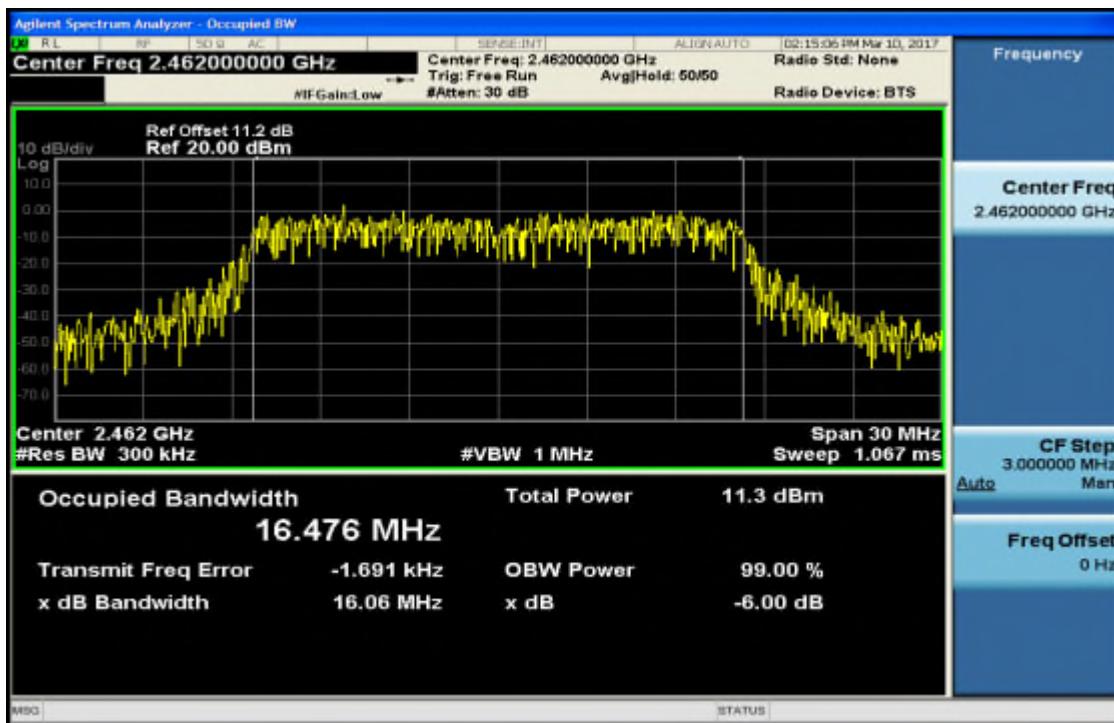


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99% Band Width Test Data CH-High



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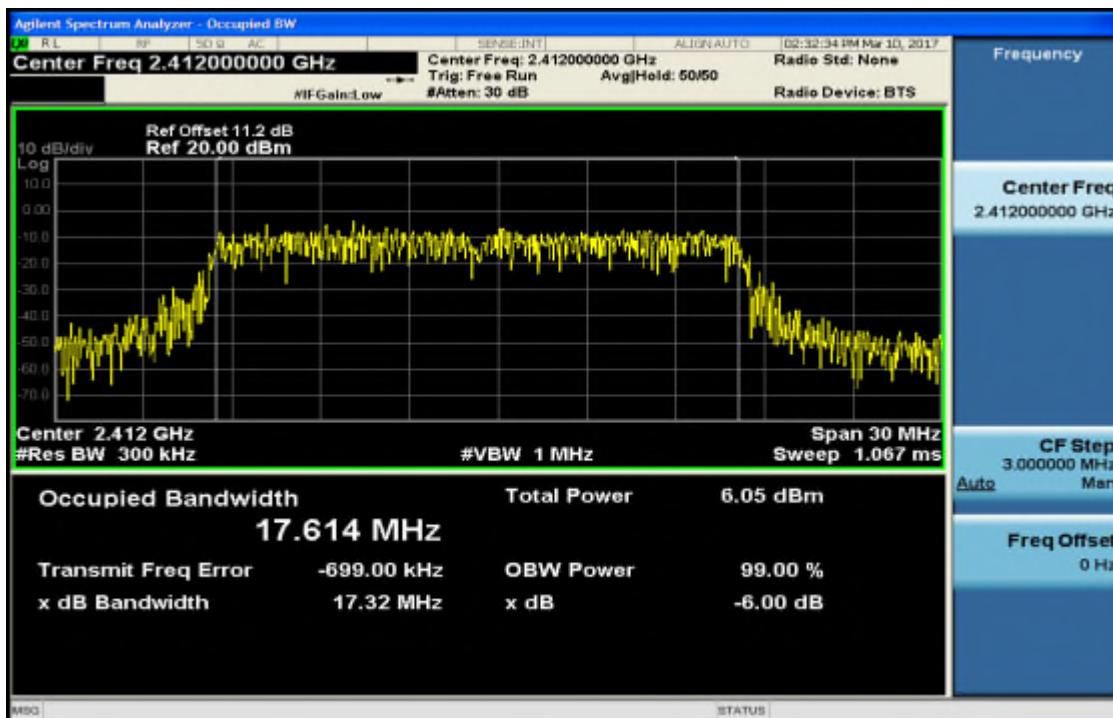
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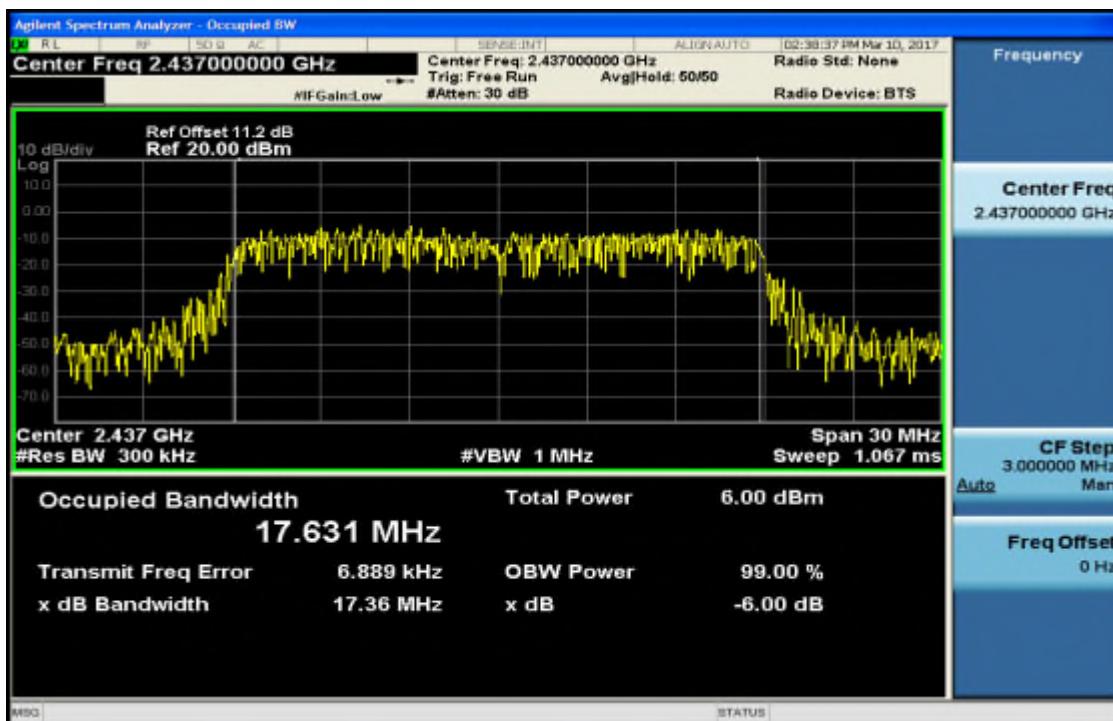
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802.11n_20M (Main)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



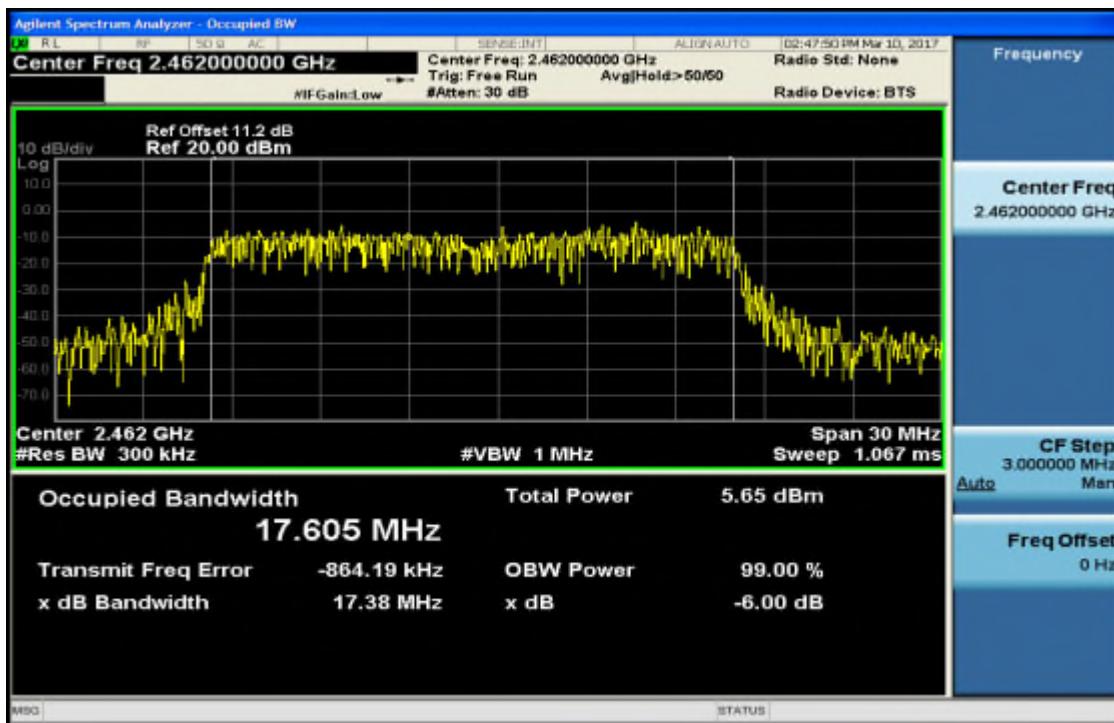
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99% Band Width Test Data CH-High



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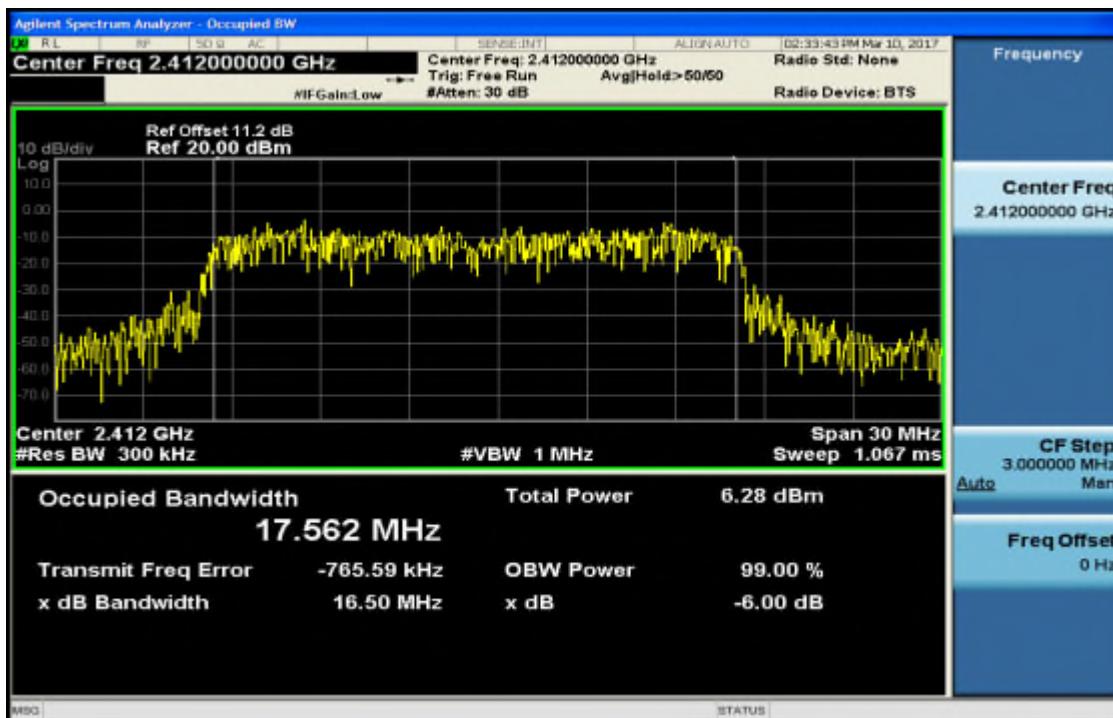
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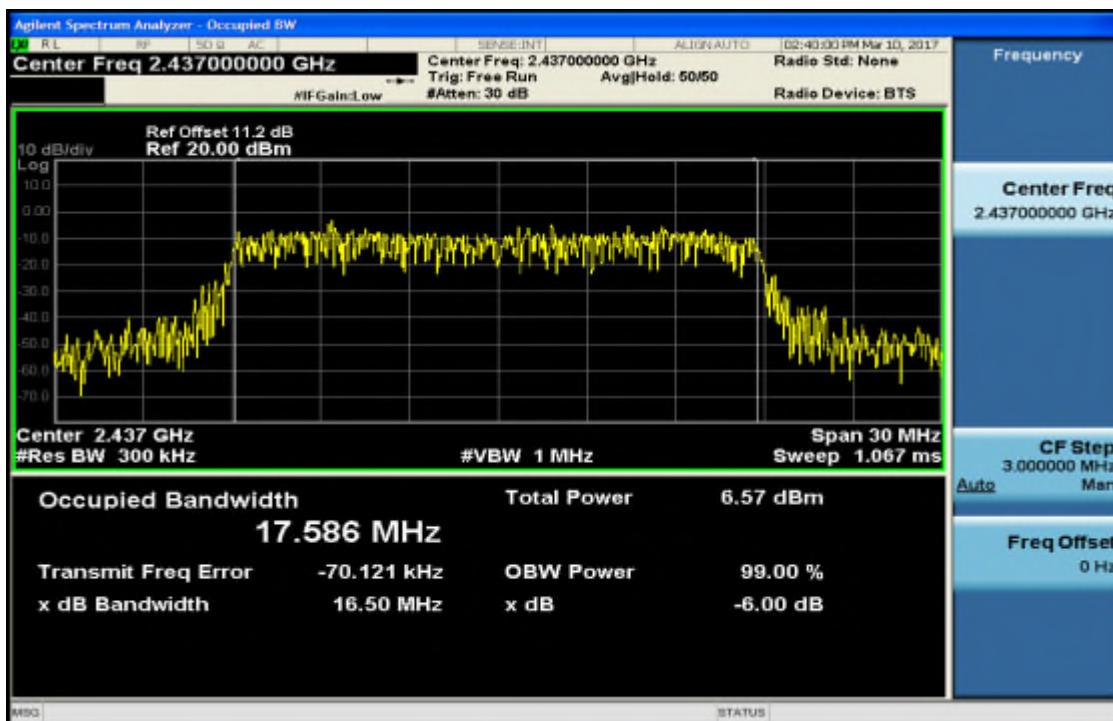
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802.11n_20M (Aux)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



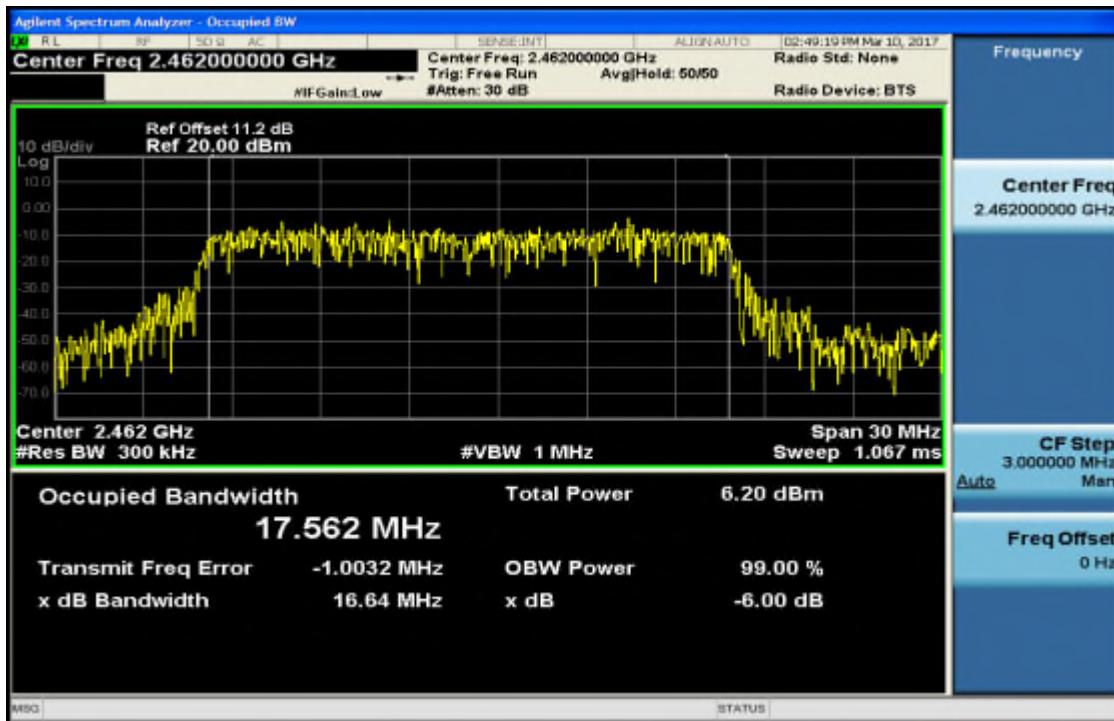
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99% Band Width Test Data CH-High



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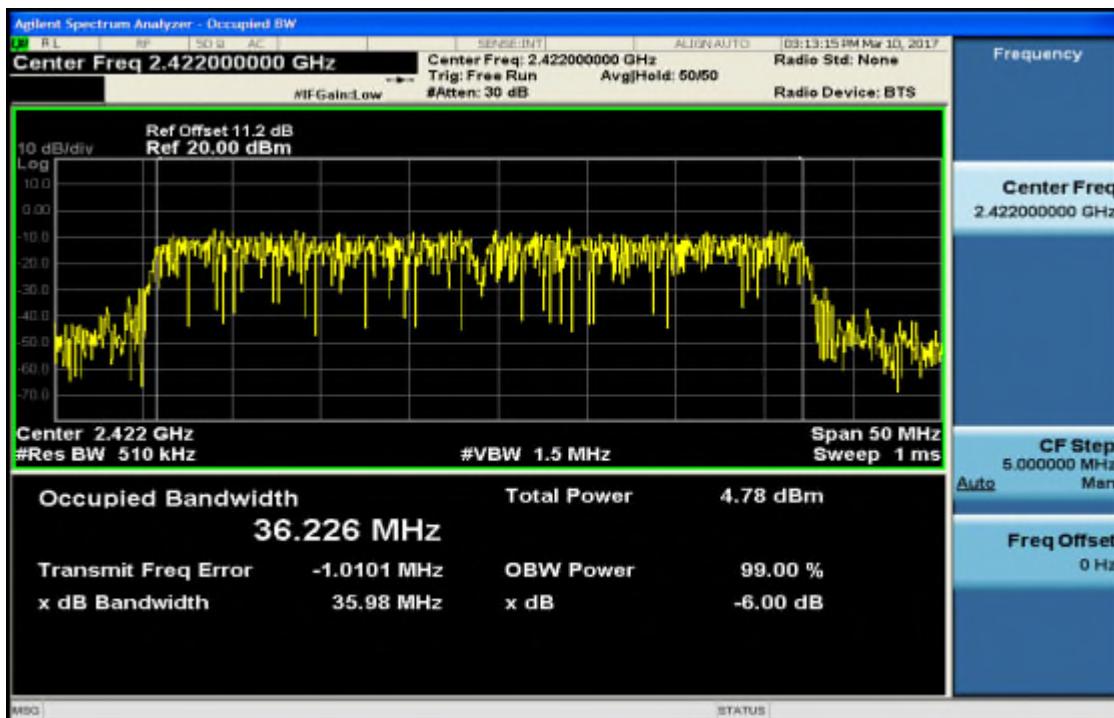
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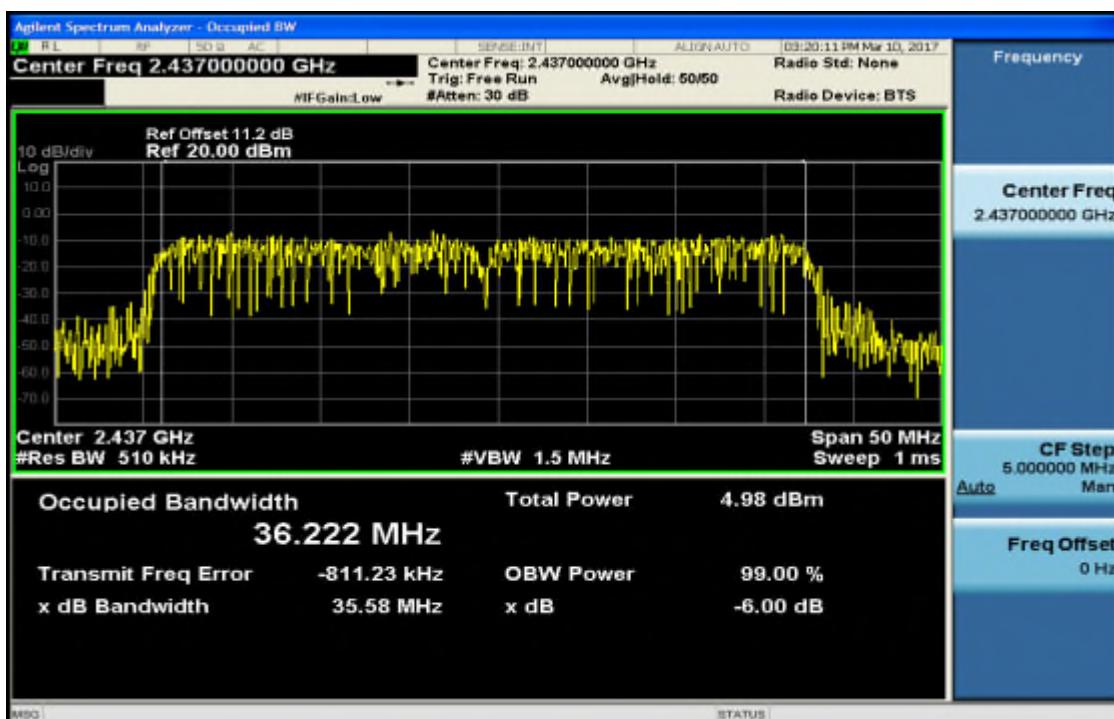
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802.11n_40M (Main)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



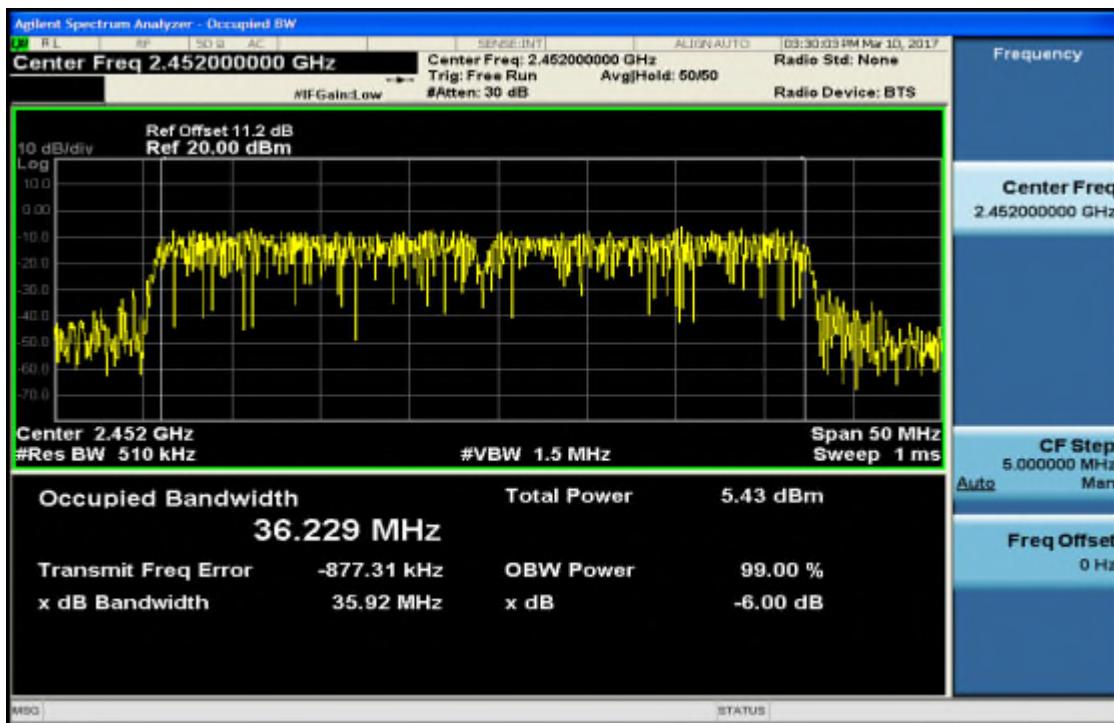
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99% Band Width Test Data CH-High



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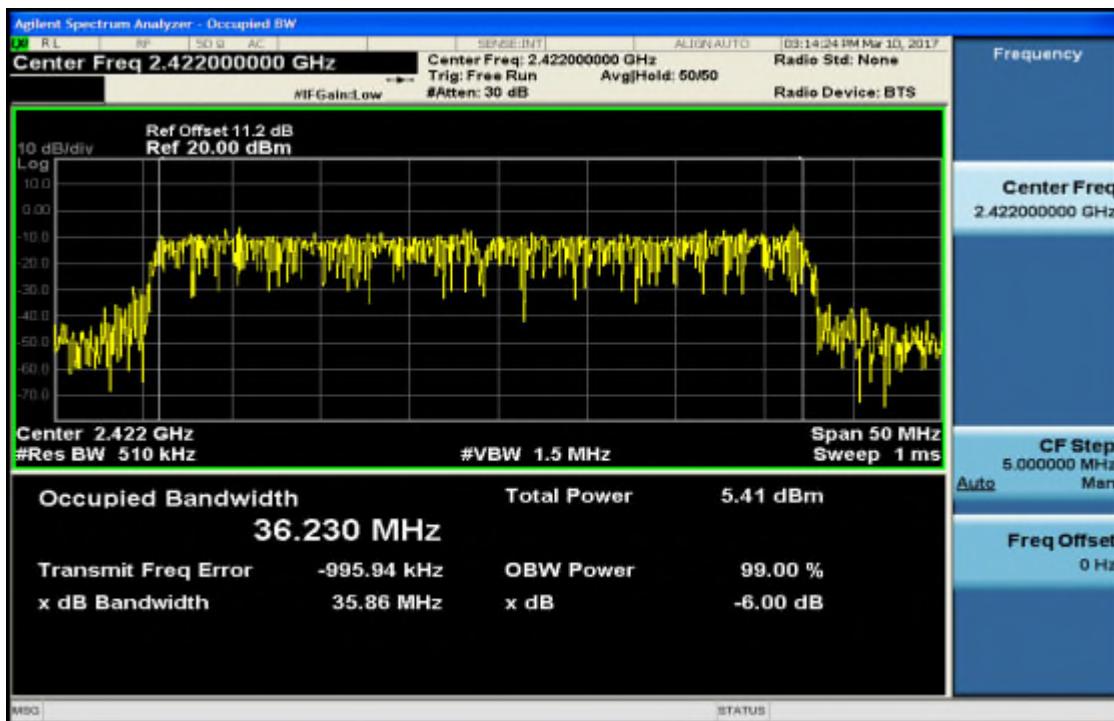
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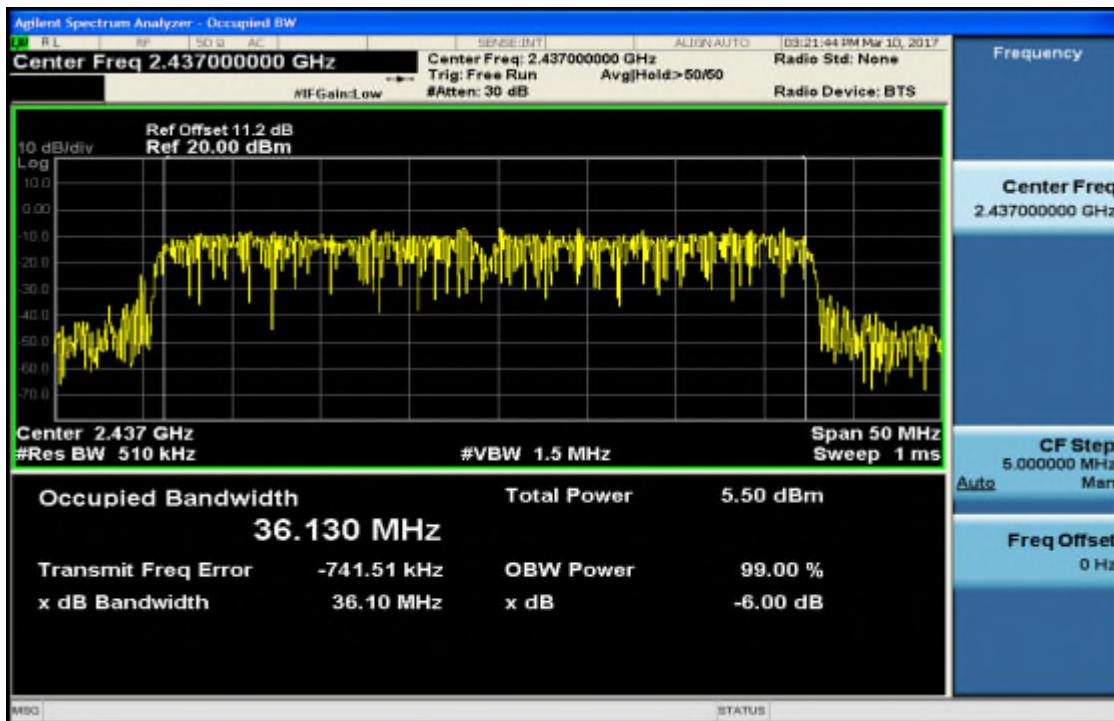
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802.11n_40M (Aux)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



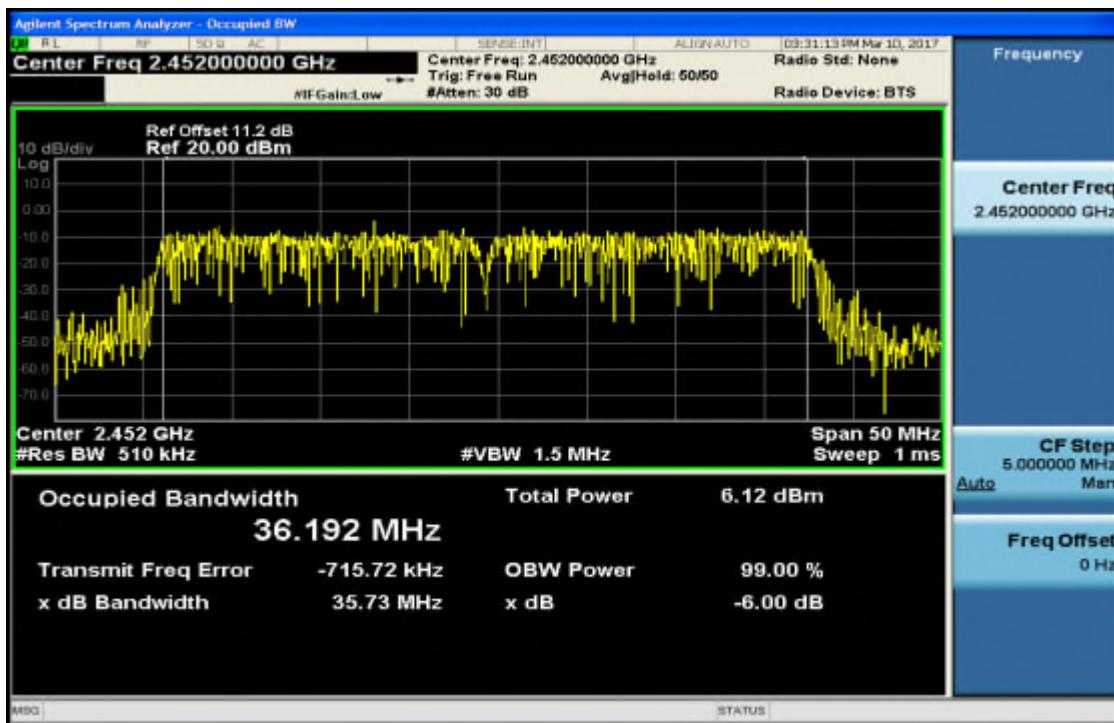
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99% Band Width Test Data CH-High



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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) & RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.8.

If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

10.2 Measurement Equipment Used

SGS Conducted Room					
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	02/26/2017	02/25/2018
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	05/17/2016	05/16/2017

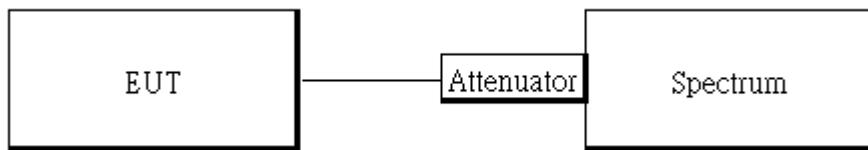
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10.3 Test SET-UP



10.4 Measurement Procedure

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.

10.5 Measurement Result

1. Refer to next page spectrum analyzer data chart and tabular data sheets.
2. For restricted Band Edge Limit, please refer to section 12.5 of this report for measurement result.

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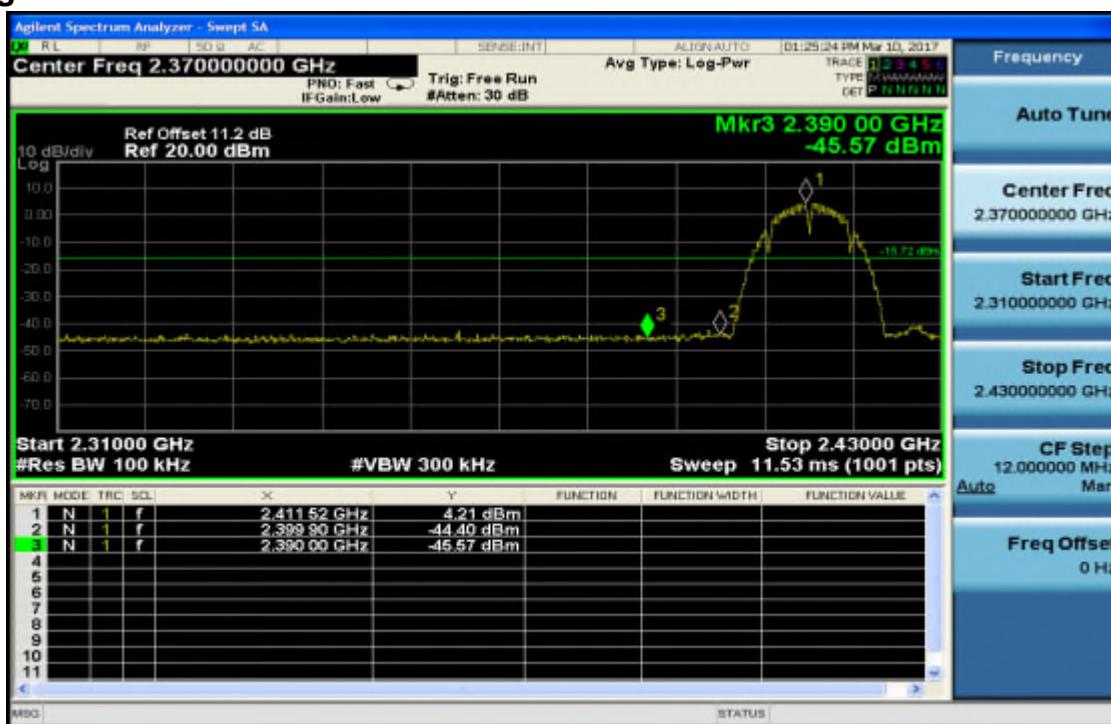
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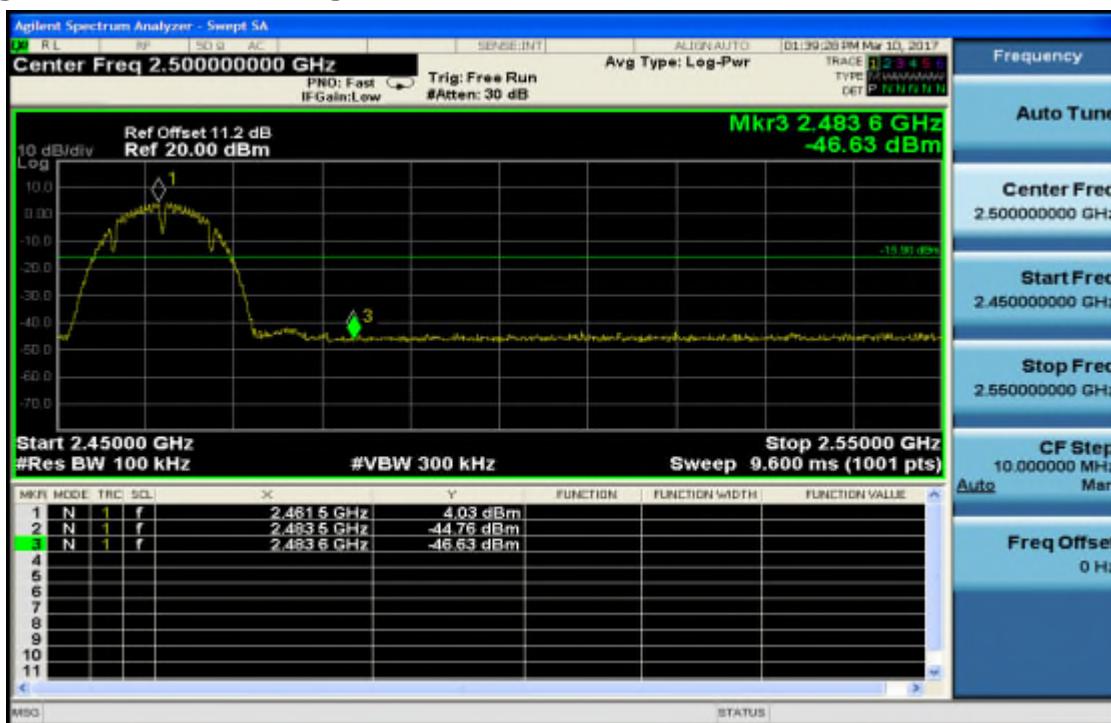
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802.11b

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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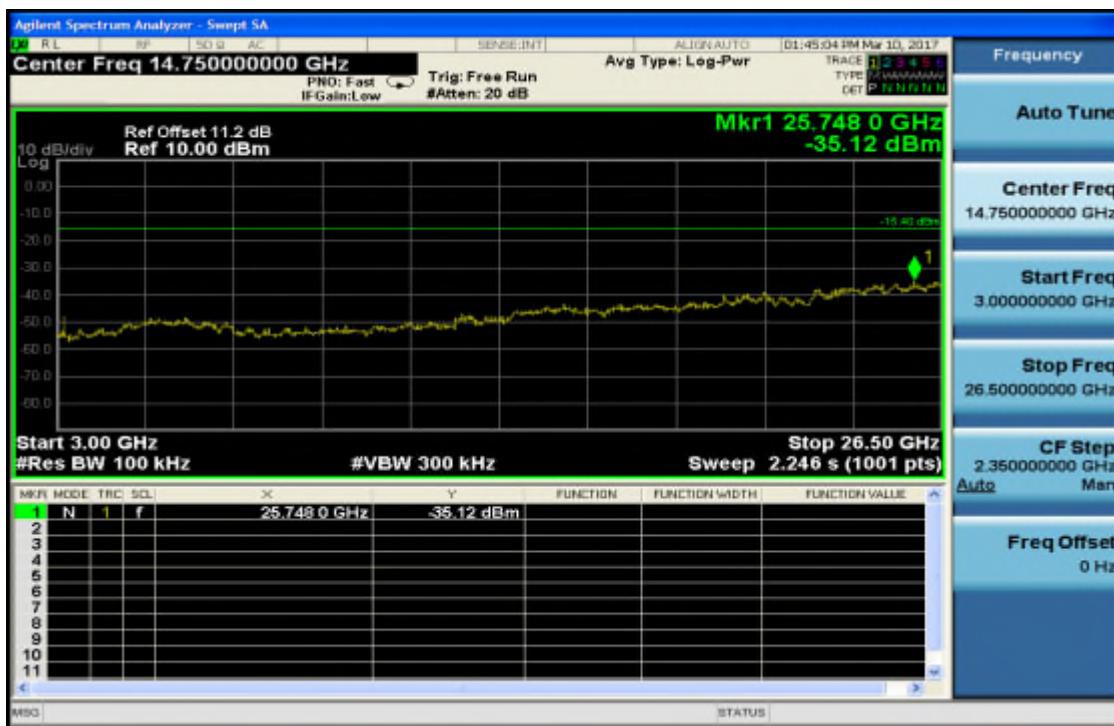
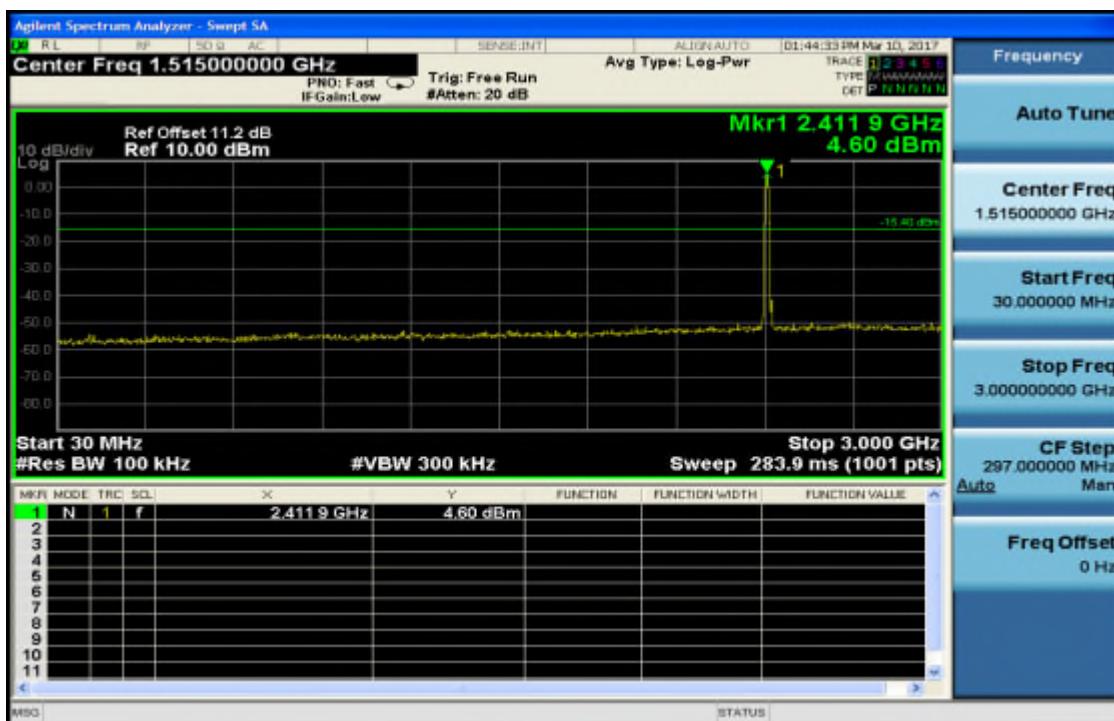
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802.11b

Spurious Emission Test Data CH-Low



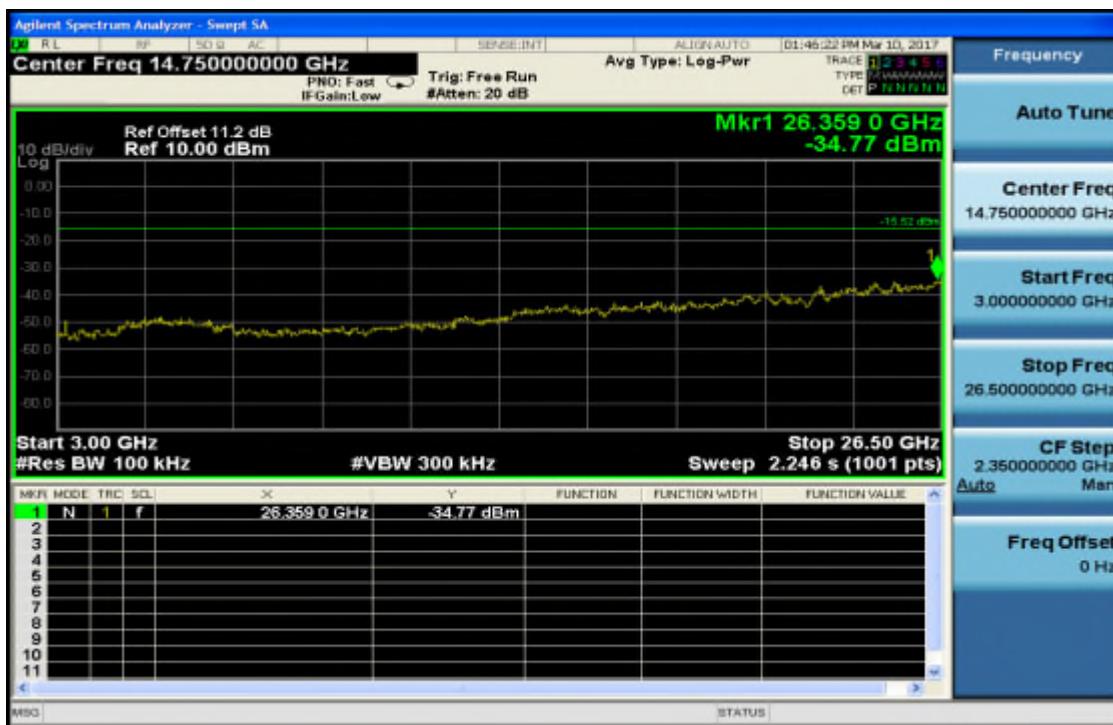
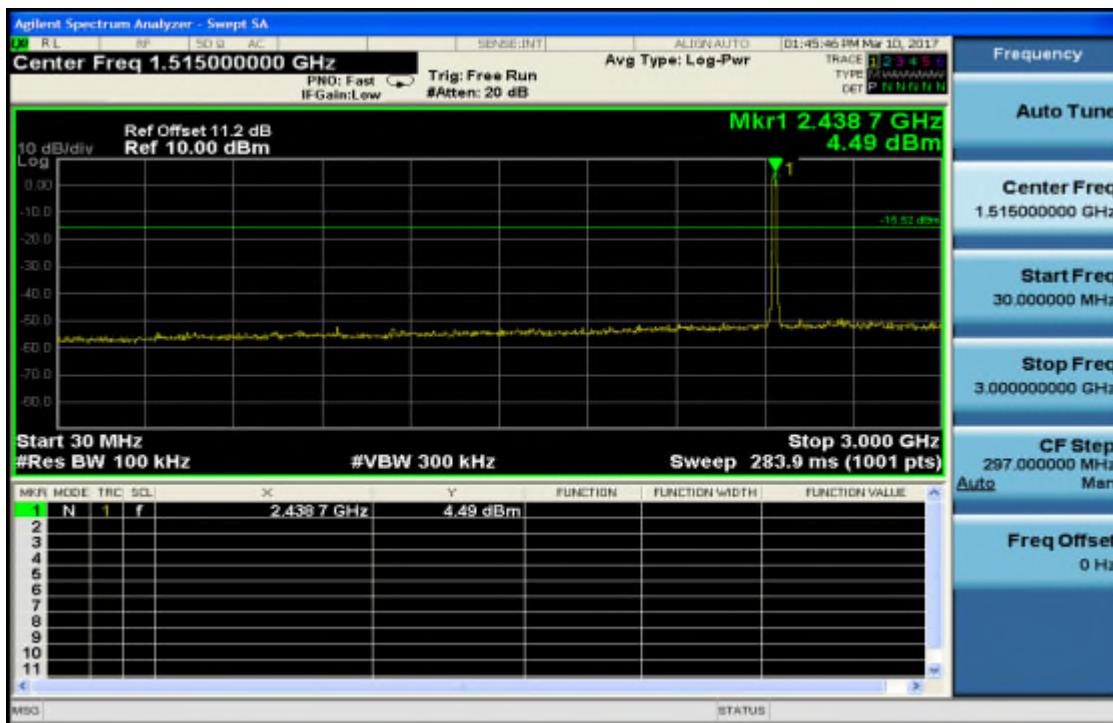
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Spurious Emission Test Data CH-Mid

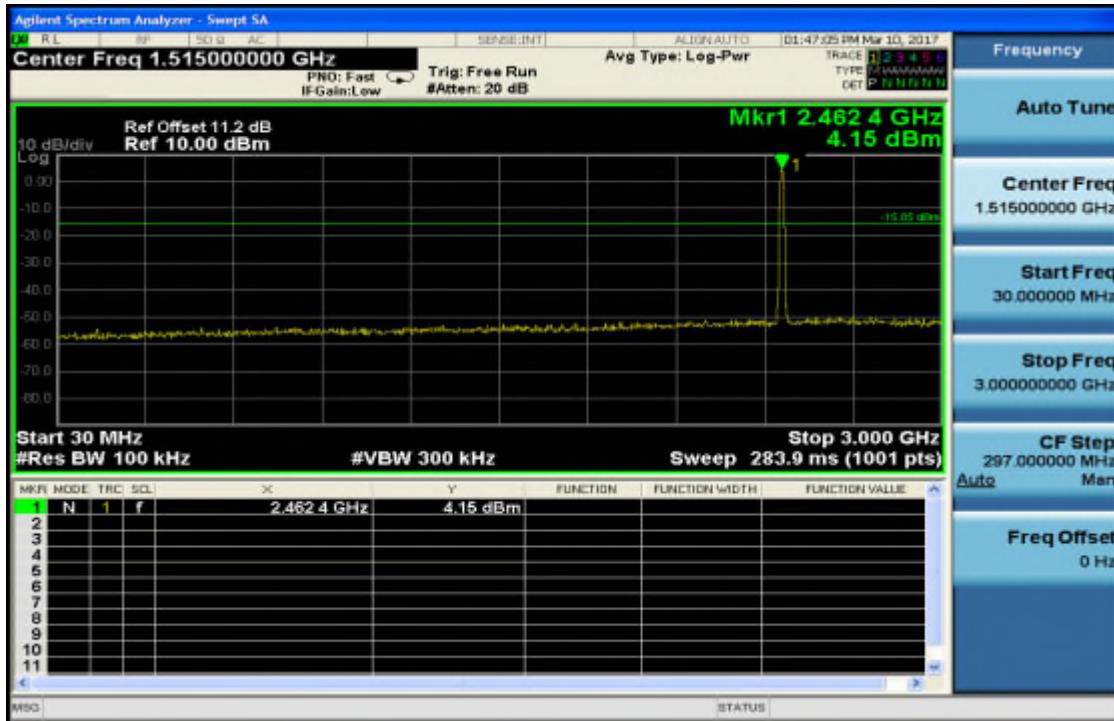


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Spurious Emission Test Data CH-High



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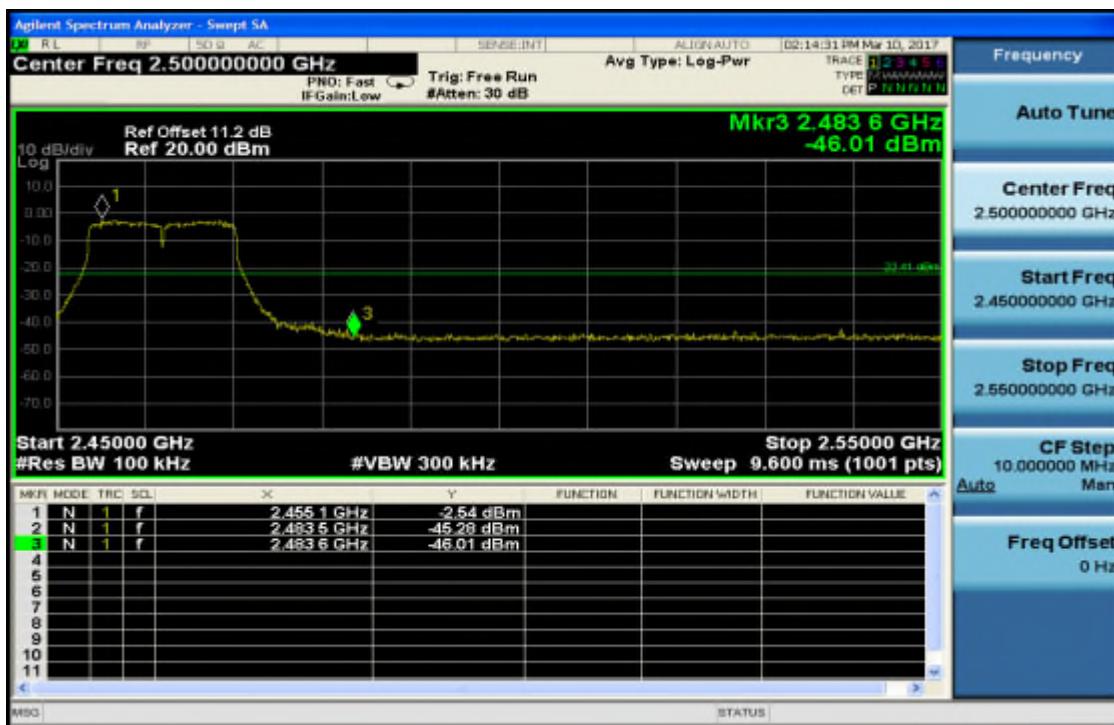
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802.11g

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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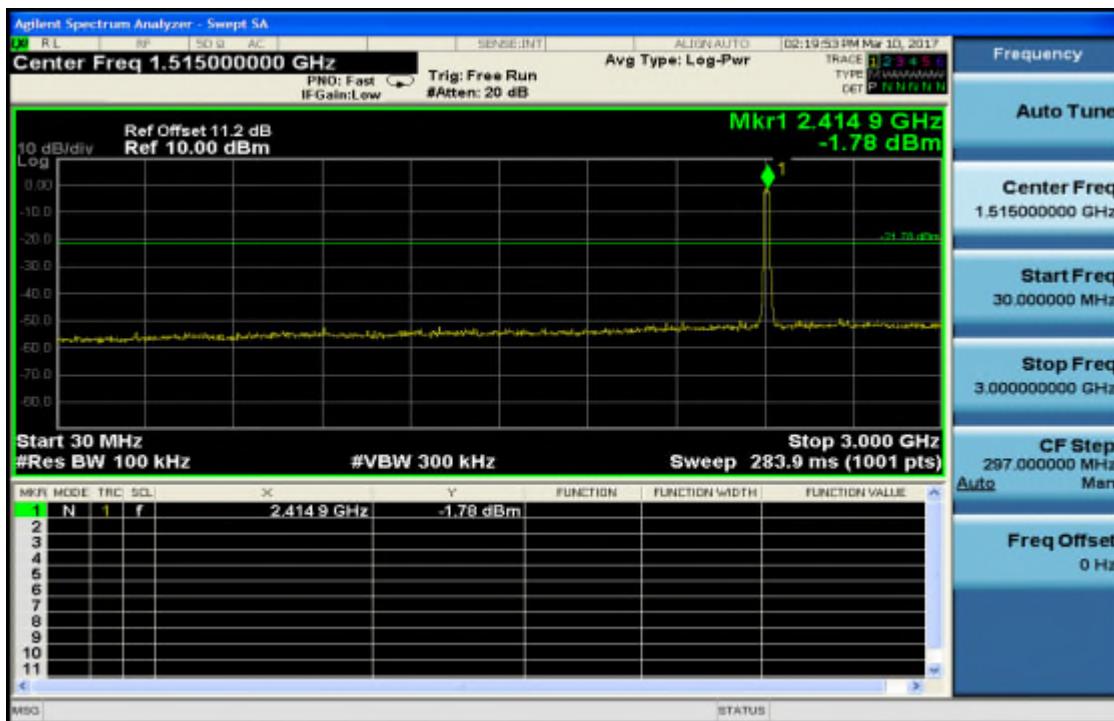
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802.11g

Spurious Emission Test Data CH-Low



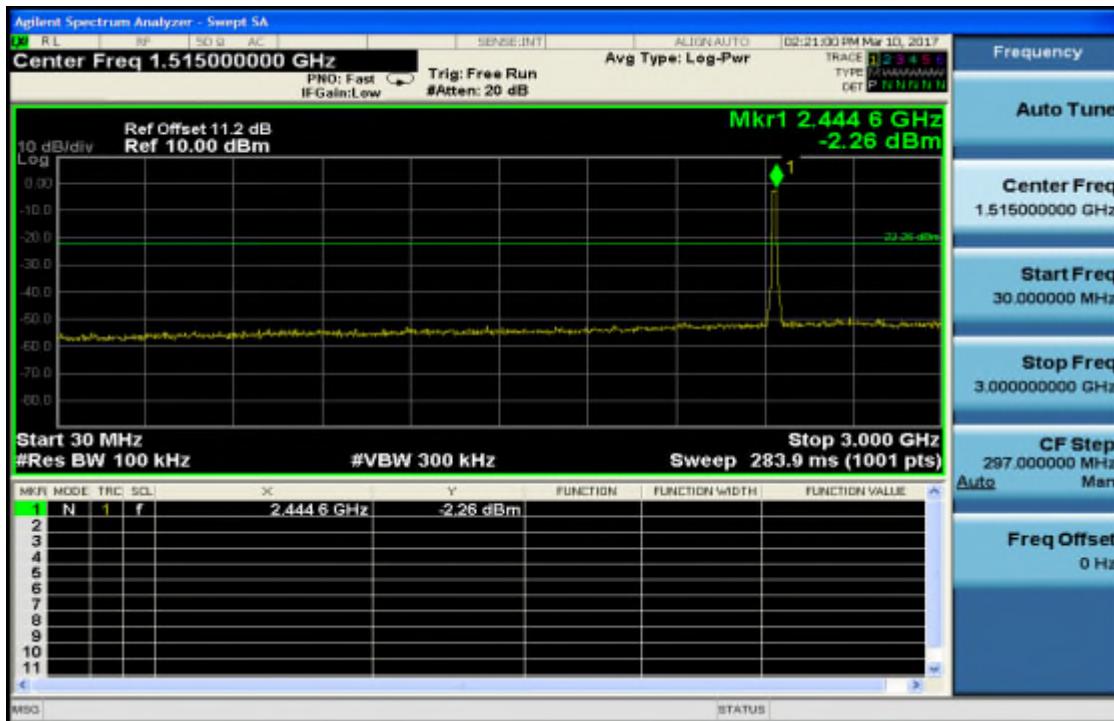
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Spurious Emission Test Data CH-Mid



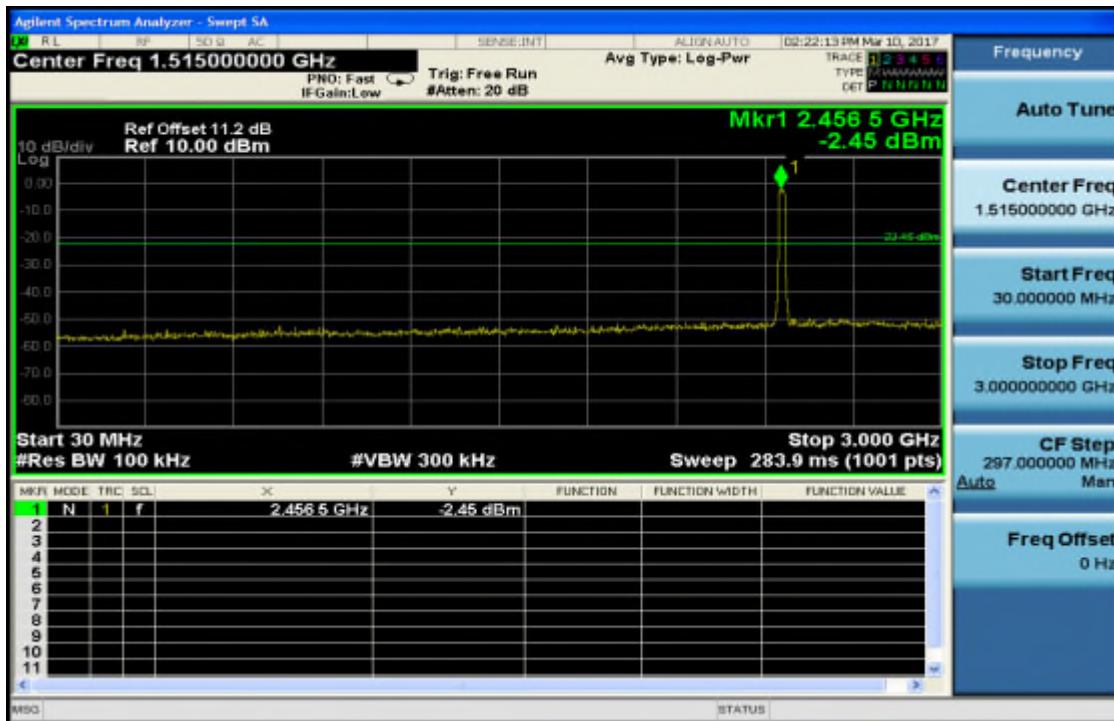
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Spurious Emission Test Data CH-High



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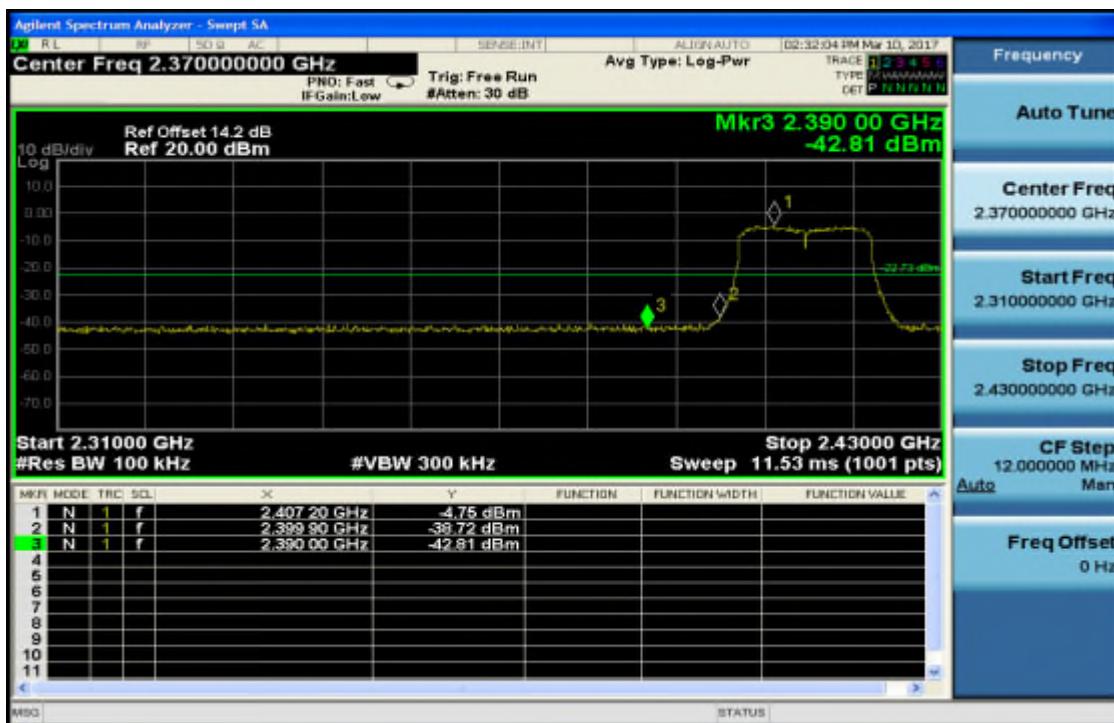
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802.11n_HT20

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



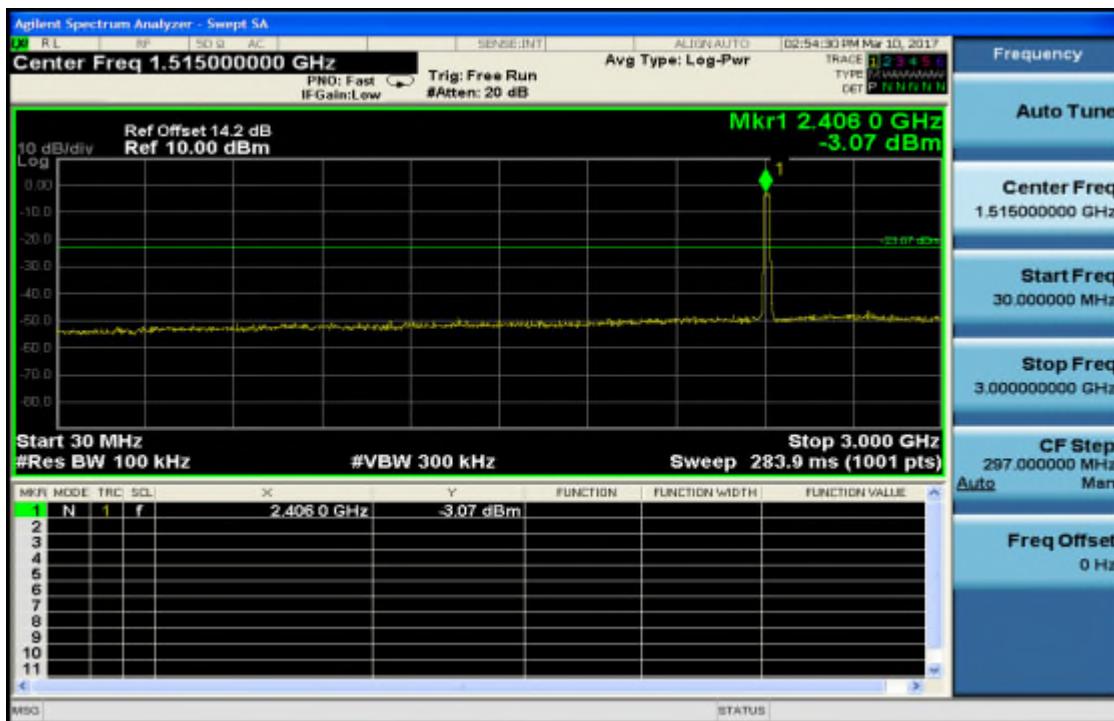
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802.11n_HT20

Spurious Emission Test Data CH-Low



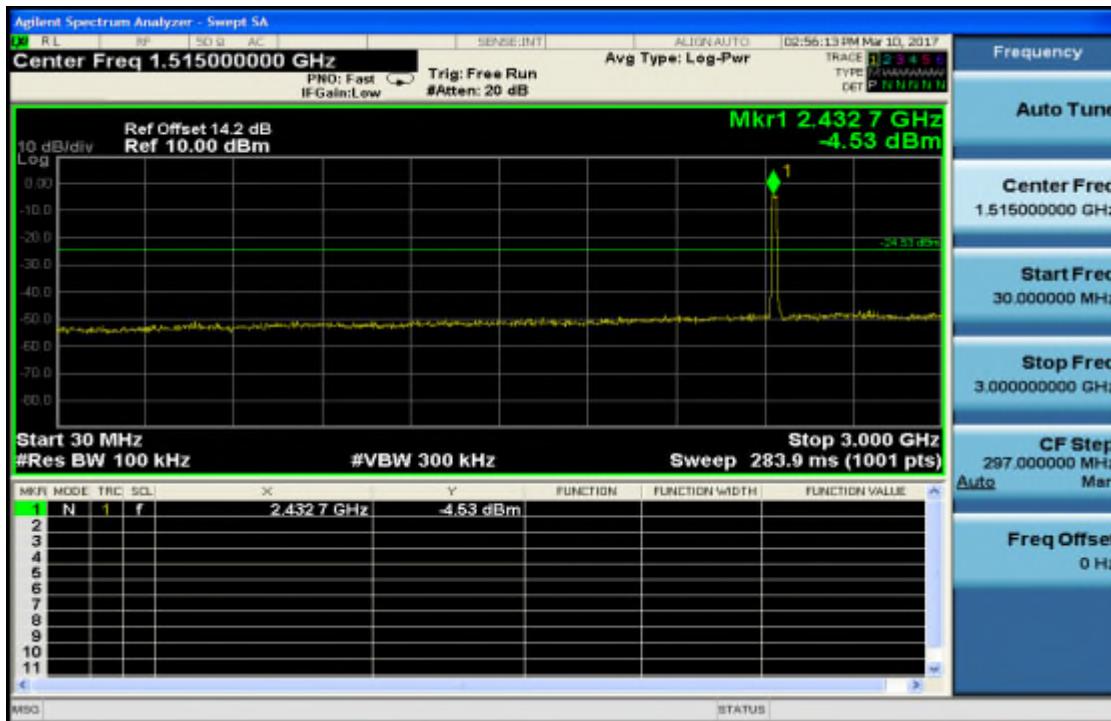
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Spurious Emission Test Data CH-Mid



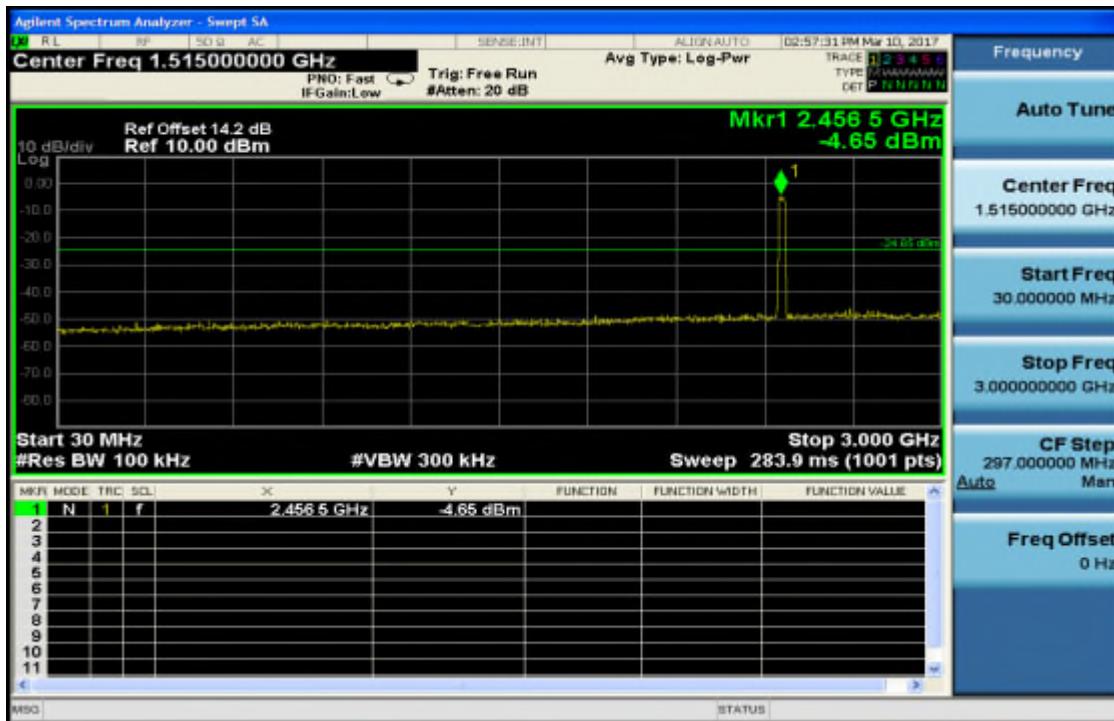
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Spurious Emission Test Data CH-High



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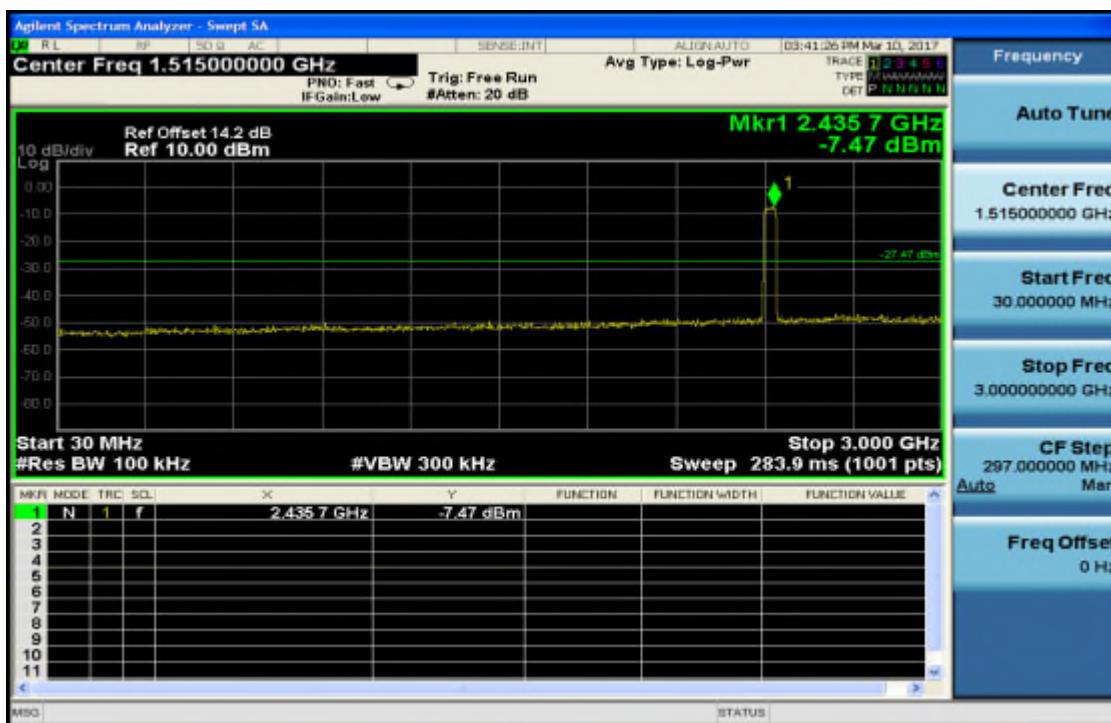
802.11n_HT40

Band Edges Test Data CH-Low



802.11n_HT40

Spurious Emission Test Data CH-Low

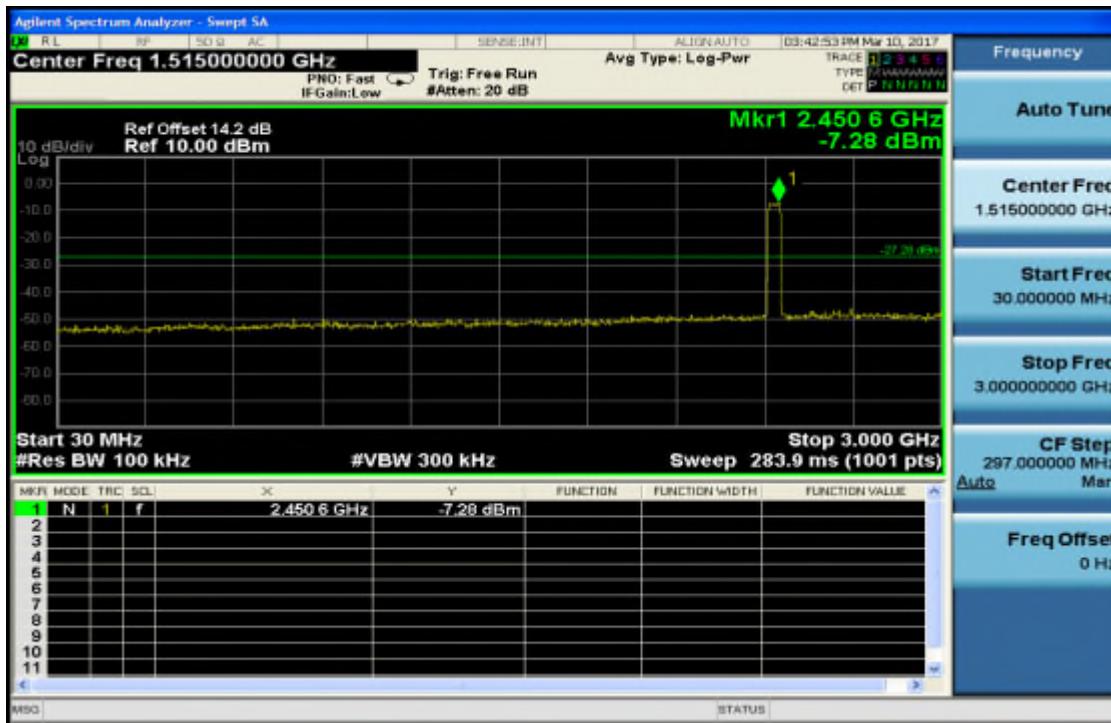


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Spurious Emission Test Data CH-Mid



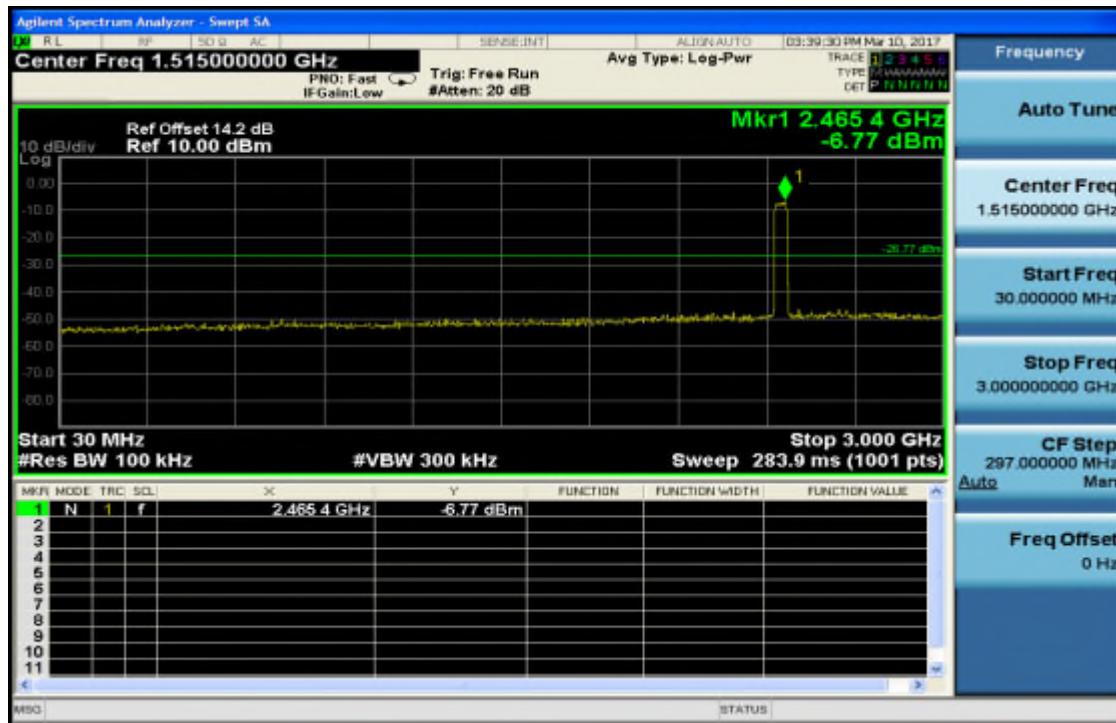
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Spurious Emission Test Data CH-High



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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 & RSS-Gen §8.8, 8.9 limit as below.

And according to §15.33(a) (1) & RSS-Gen §6.13(a), 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 (dB μ V/m) = 20 log Emission level (dB μ V/m)

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11.2 Measurement Equipment Used:

SGS SAC-III					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100760	05/10/2016	05/09/2017
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/21/2016	04/20/2017
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	08/01/2016	07/31/2017
Pre-Amplifier	Agilent	8447D	2944A07676	01/05/2017	01/04/2018
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/05/2017	01/04/2018
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	07/01/2016	06/30/2017
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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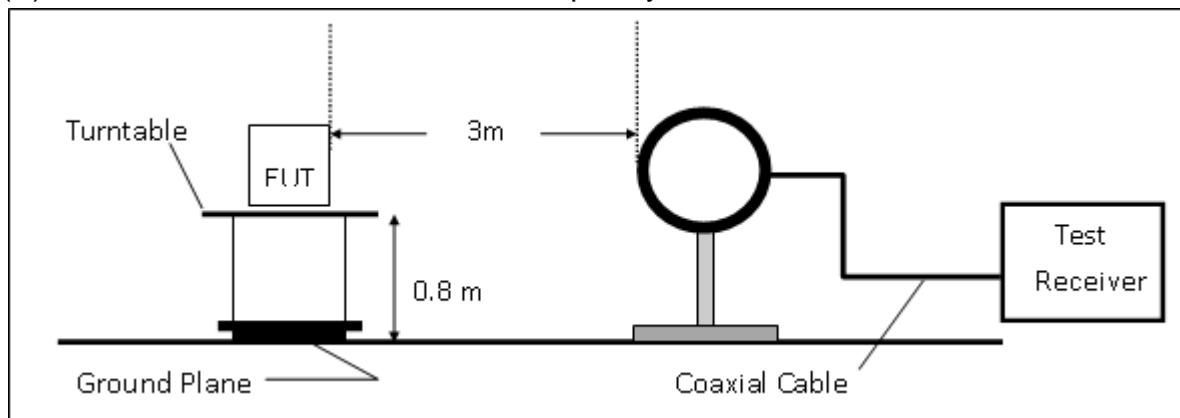
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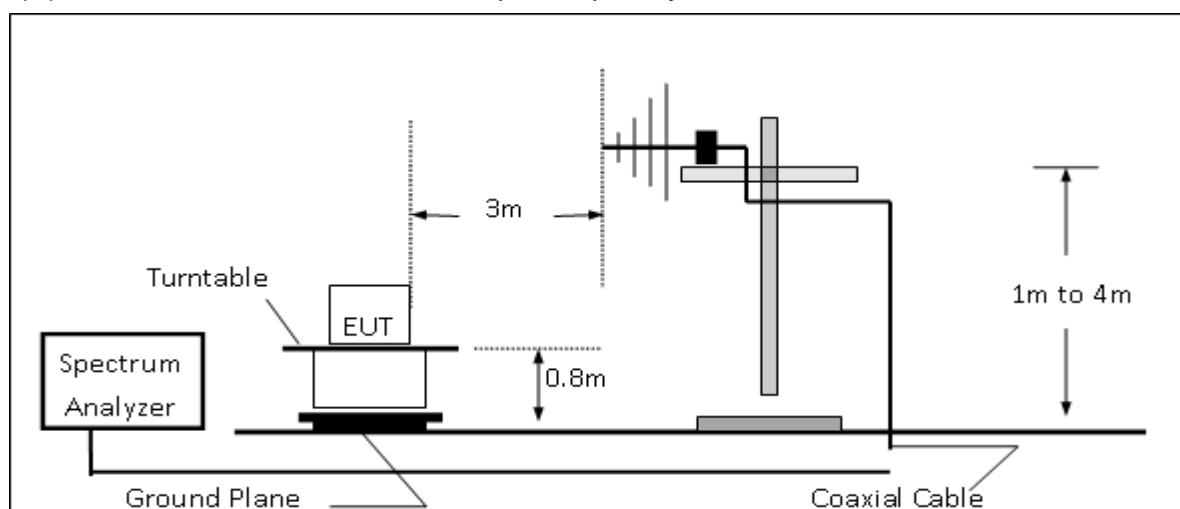
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11.3 Test SET-UP

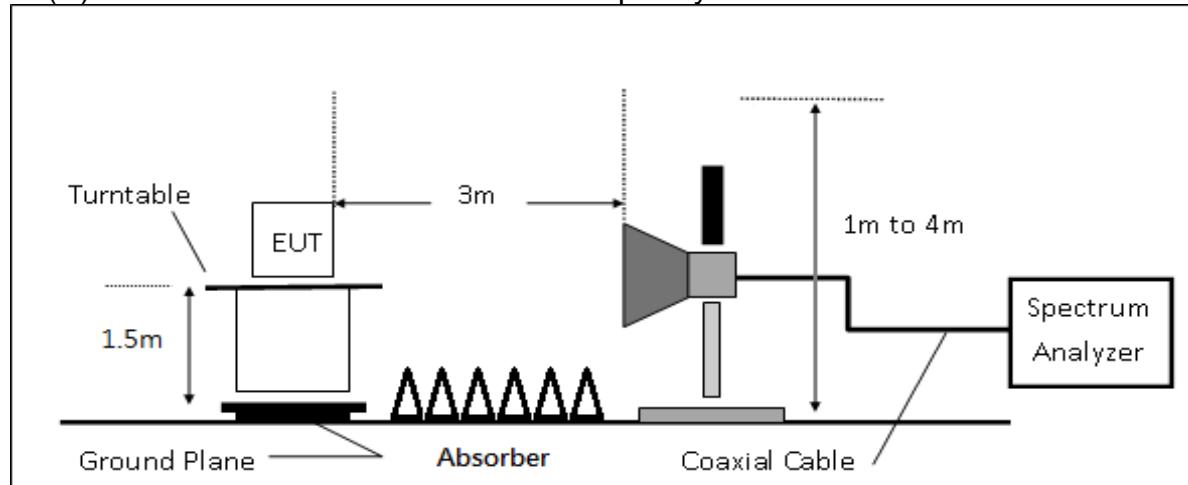
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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 \geq 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:

$$\mathbf{FS = RA + AF + CL - AG}$$

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

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

Factor(dB) = Antenna Factor(dB μ V/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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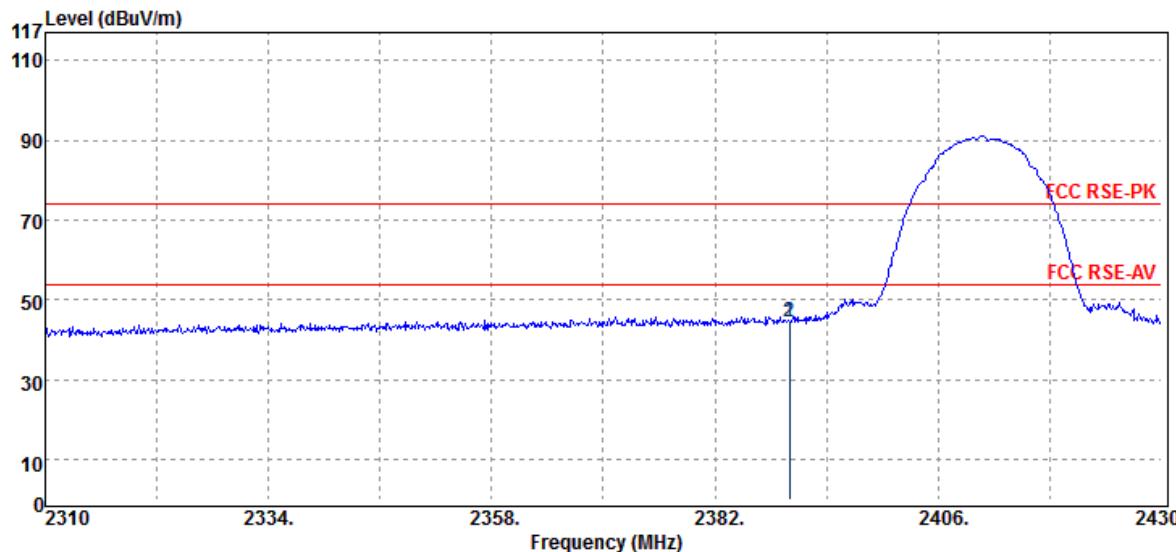
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Radiated Band Edge Measurement Result (802.11b) *Dipole Antenna

Operation Band	:802.11b	Test Date	:2017-03-15
Fundamental Frequency	:2412 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS dB ^μ V/m	Limit @3m dB ^μ V/m	Margin dB
			PK/QP/AV	Reading Level dB ^μ V				
2390.00	E	Average		46.12	-1.74	44.38	54.00	-9.62
2390.00	E	Peak		46.36	-1.74	44.62	74.00	-29.38

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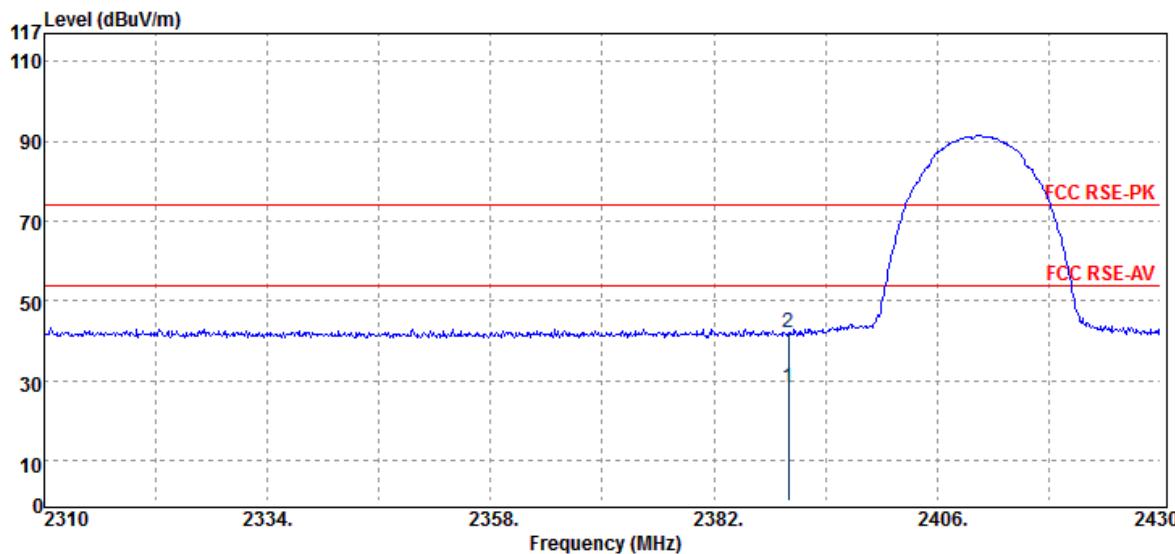
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Operation Band :802.11b
 Fundamental Frequency :2412 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Margin
			PK/QP/AV	Reading Level dB μ V				
2390.00	E	Average	30.10	30.10	-1.74	28.36	54.00	-25.64
2390.00	E	Peak	43.98	43.98	-1.74	42.24	74.00	-31.76

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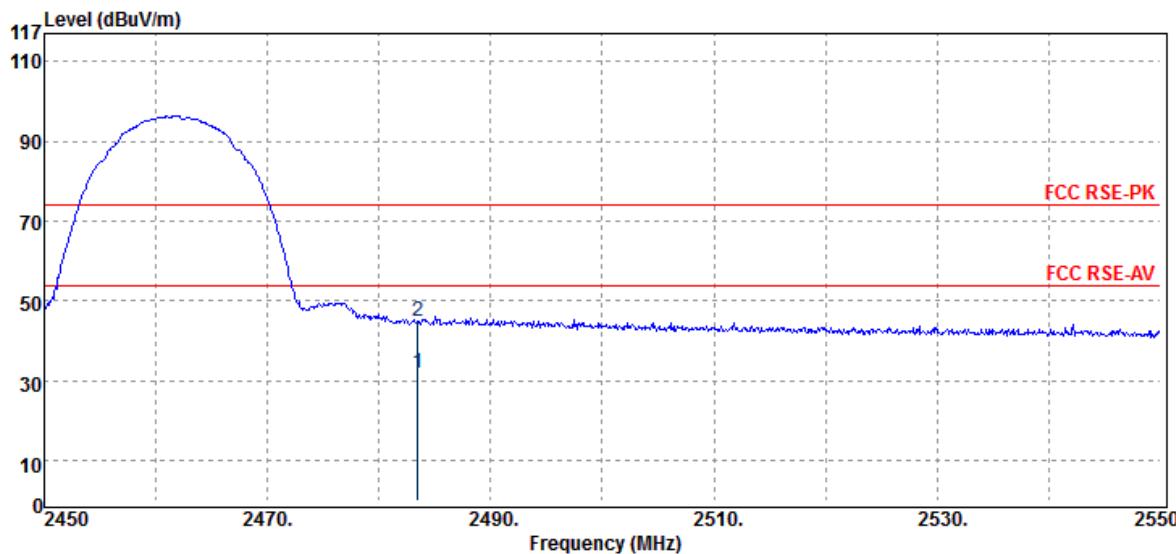
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Operation Band :802.11b
 Fundamental Frequency :2462 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Margin
			PK/QP/AV	Reading Level dB μ V				
2483.50	E	Average	33.46	33.46	-1.62	31.84	54.00	-22.16
2483.50	E	Peak	46.61	46.61	-1.62	44.99	74.00	-29.01

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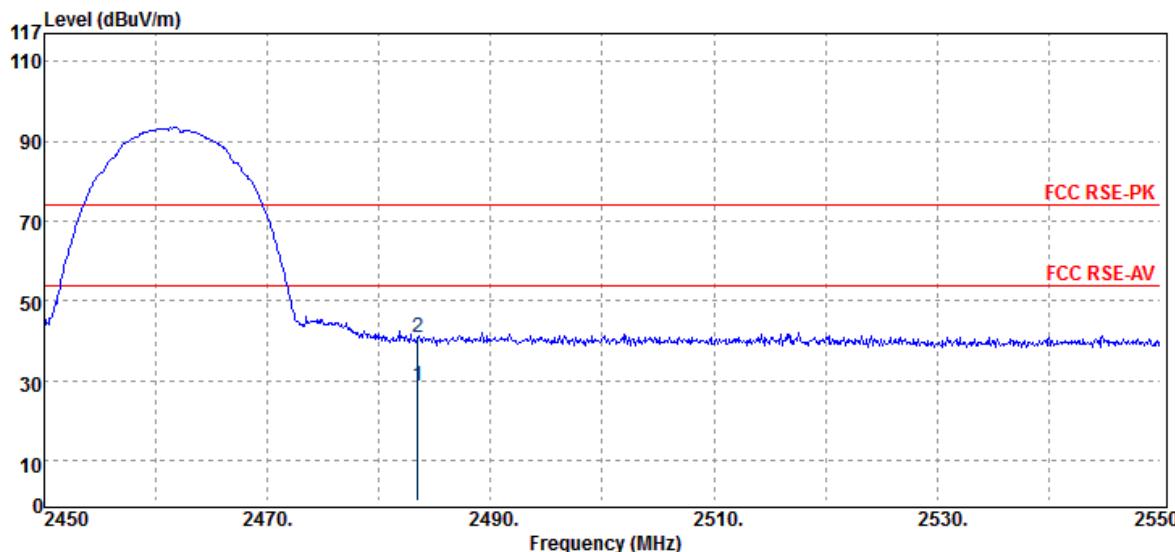
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Operation Band :802.11b
 Fundamental Frequency :2462 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Margin
			PK/QP/AV	Reading Level dB μ V				
2483.50	E	Average	30.30	30.30	-1.62	28.68	54.00	-25.32
2483.50	E	Peak	42.59	42.59	-1.62	40.97	74.00	-33.03

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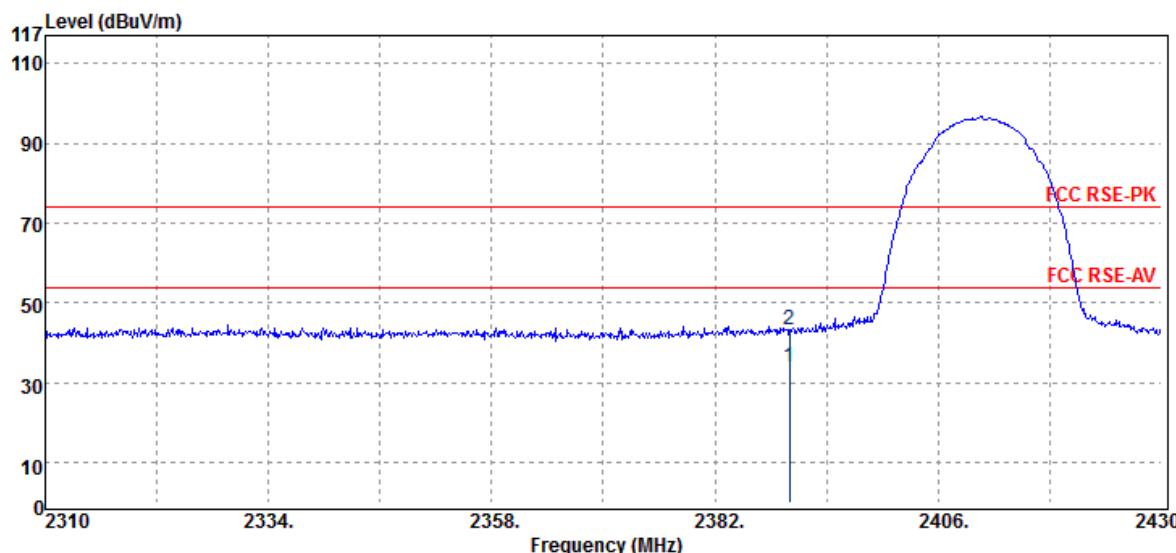
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*PCB Antenna

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

Test Date :2017-03-14
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Margin
			PK/QP/AV	Reading Level dB μ V				
2390.00	E	Average	35.62	35.62	-1.74	33.88	54.00	-20.12
2390.00	E	Peak	45.03	45.03	-1.74	43.29	74.00	-30.71

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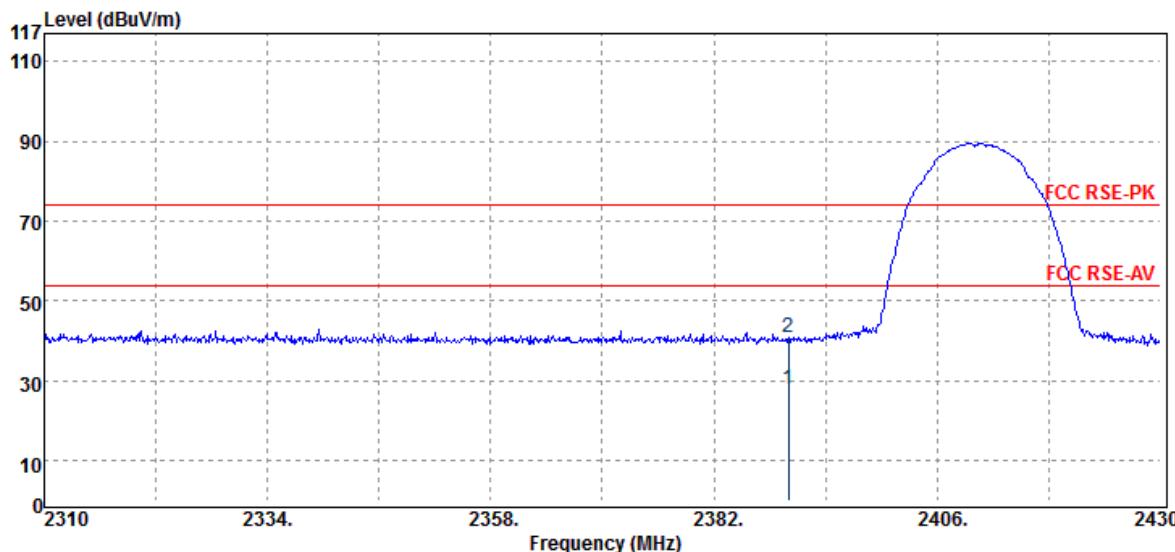
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Operation Band :802.11b
 Fundamental Frequency :2412 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2017-03-14
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Margin
			PK/QP/AV	Reading Level dB μ V				
2390.00	E	Average	29.79	29.79	-1.74	28.05	54.00	-25.95
2390.00	E	Peak	42.57	42.57	-1.74	40.83	74.00	-33.17

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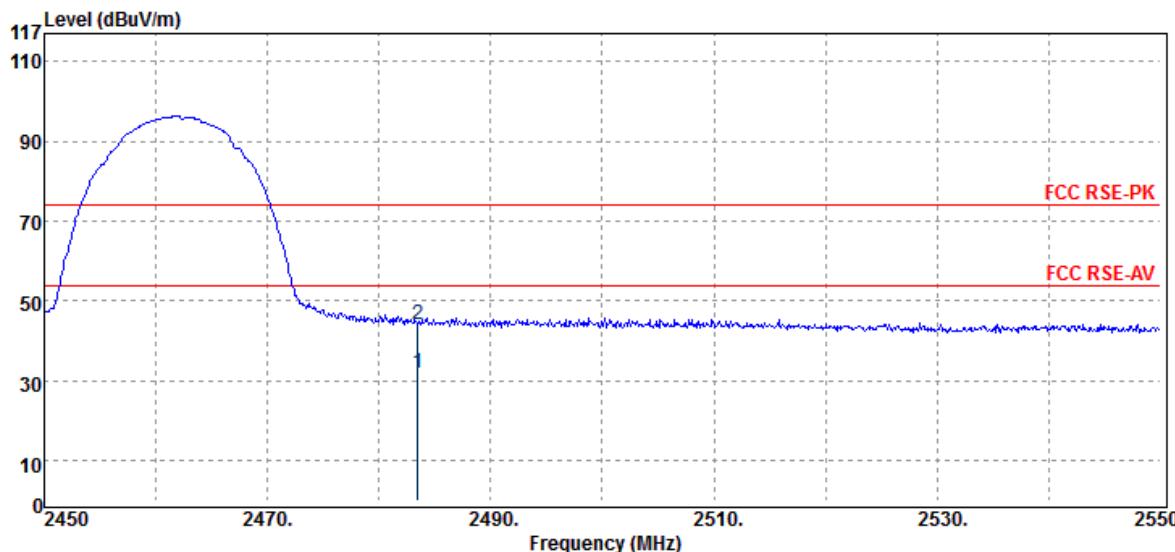
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Operation Band :802.11b
 Fundamental Frequency :2462 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-14
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Margin
			PK/QP/AV	Reading Level dB μ V				
2483.50	E	Average	33.47	33.47	-1.62	31.85	54.00	-22.15
2483.50	E	Peak	45.90	45.90	-1.62	44.28	74.00	-29.72

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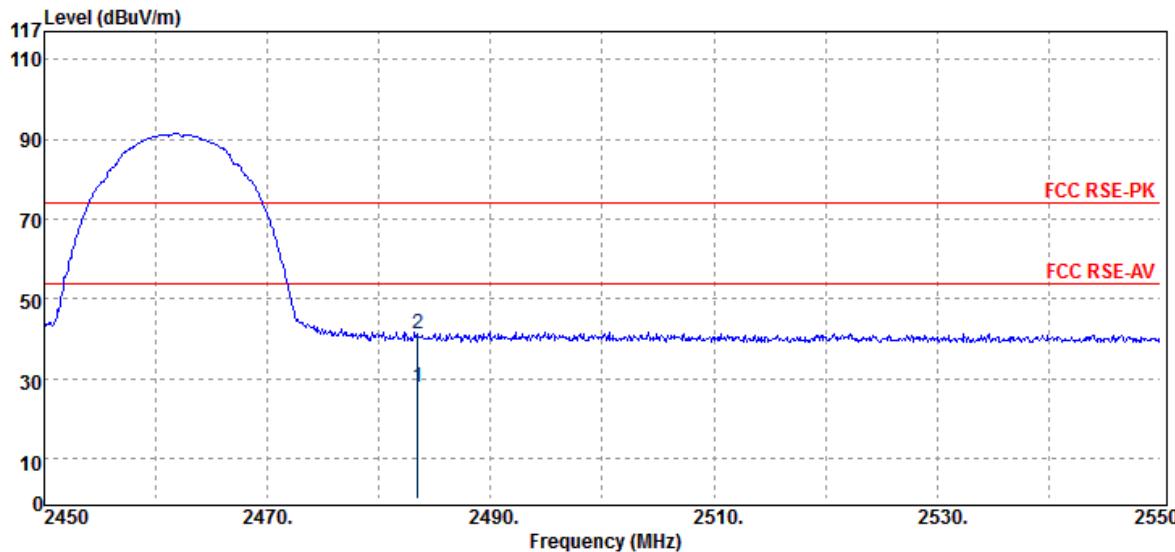
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Operation Band :802.11b
 Fundamental Frequency :2462 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-14
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Margin
			PK/QP/AV	Reading Level dB μ V				
2483.50	E	Average	29.35	29.35	-1.62	27.73	54.00	-26.27
2483.50	E	Peak	42.72	42.72	-1.62	41.10	74.00	-32.90

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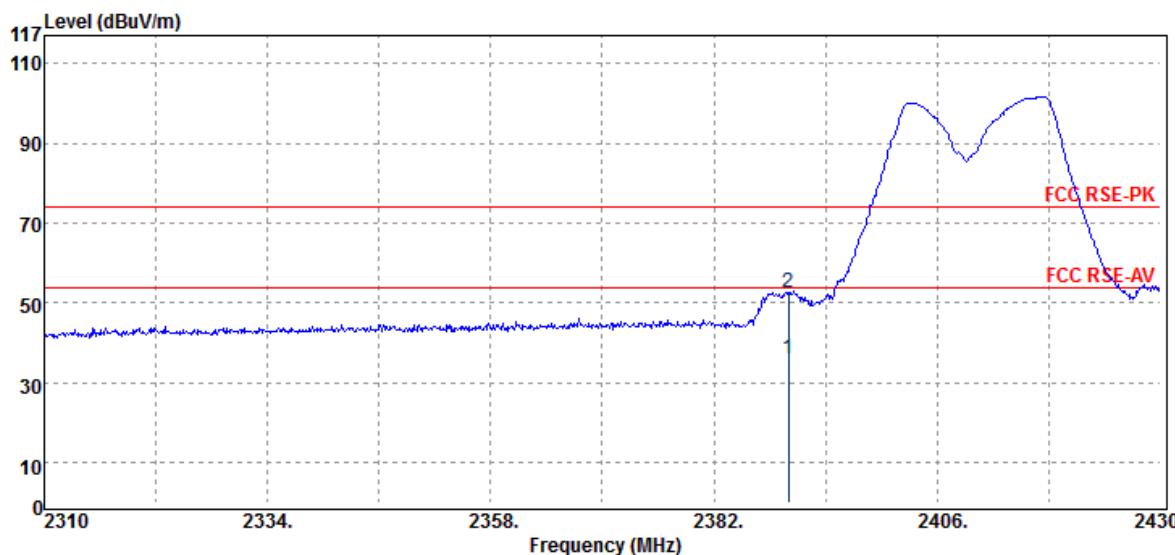
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Radiated Band Edge Measurement Result (802.11g) *Dipole Antenna

Operation Band	:802.11g	Test Date	:2017-03-15
Fundamental Frequency	:2412 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Margin
			PK/QP/AV	Reading Level dB μ V				
2390.00	E	Average	37.88	37.88	-1.74	36.14	54.00	-17.86
2390.00	E	Peak	54.28	54.28	-1.74	52.54	74.00	-21.46

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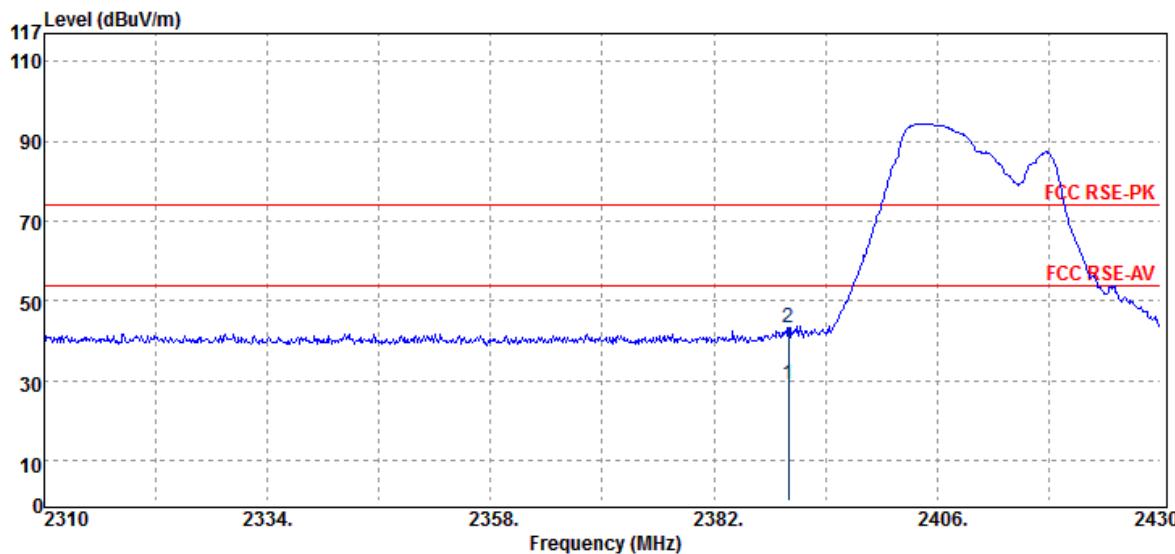
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Operation Band :802.11g
 Fundamental Frequency :2412 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Margin
			PK/QP/AV	Reading Level dB μ V				
2390.00	E	Average	31.00	31.00	-1.74	29.26	54.00	-24.74
2390.00	E	Peak	44.98	44.98	-1.74	43.24	74.00	-30.76

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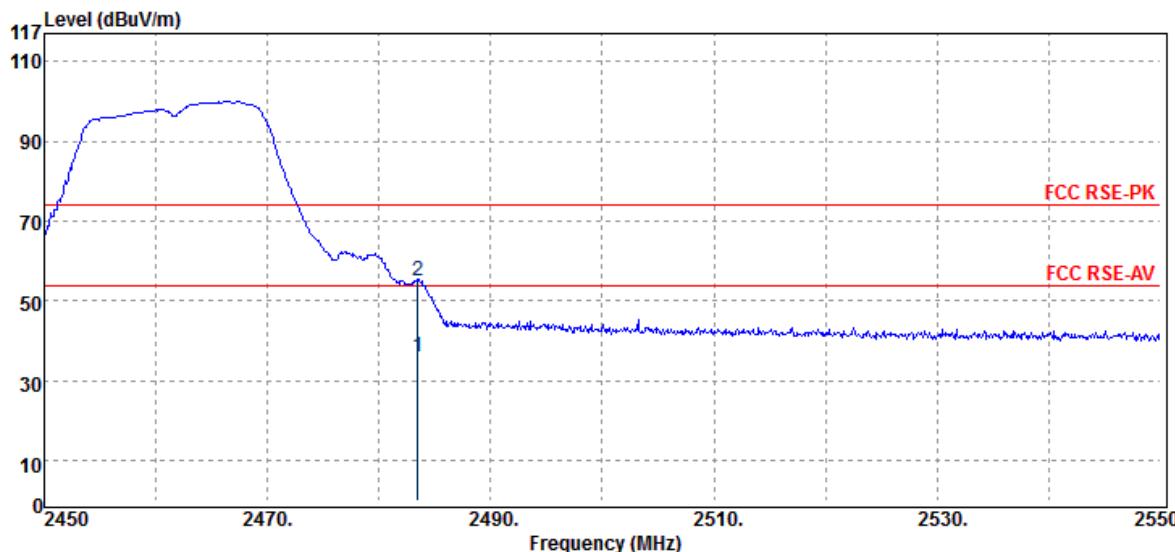
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Operation Band :802.11g
 Fundamental Frequency :2462 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Margin
			PK/QP/AV	Reading Level dB μ V				
2483.50	E	Average	37.45	37.45	-1.62	35.83	54.00	-18.17
2483.50	E	Peak	56.80	56.80	-1.62	55.18	74.00	-18.82

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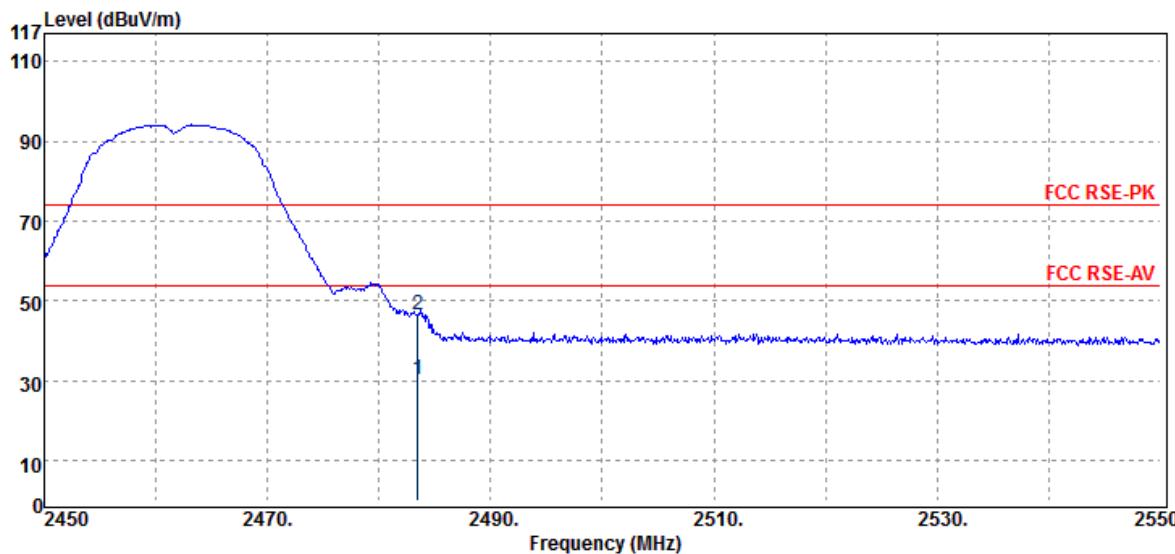
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Operation Band :802.11g
 Fundamental Frequency :2462 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Margin
			PK/QP/AV	Reading Level dB μ V				
2483.50	E	Average	32.00	32.00	-1.62	30.38	54.00	-23.62
2483.50	E	Peak	48.37	48.37	-1.62	46.75	74.00	-27.25

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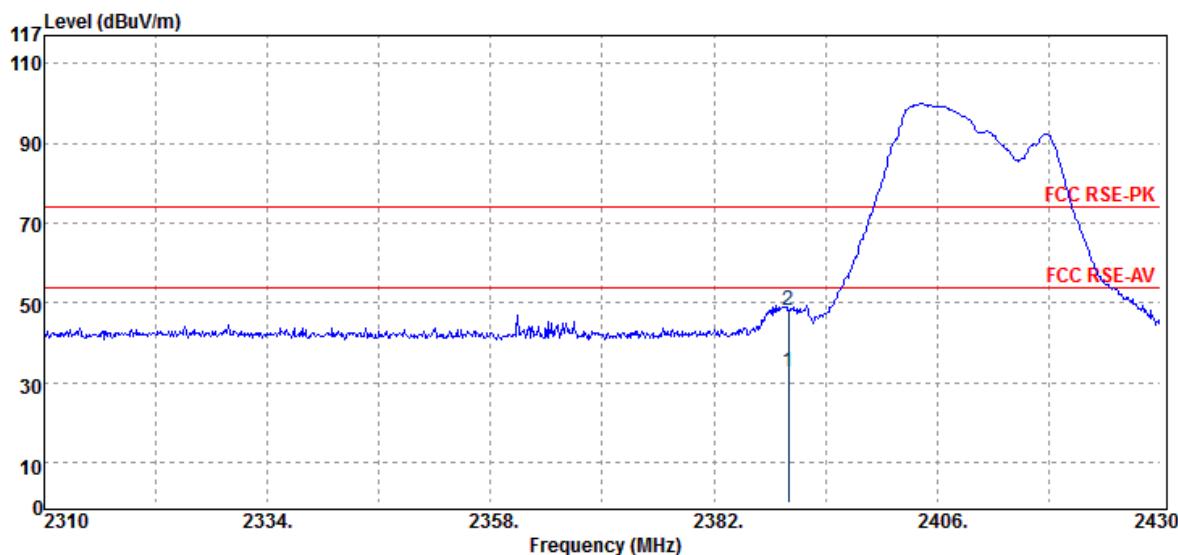
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*PCB Antenna

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

Test Date :2017-03-14
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Margin
			PK/QP/AV	Reading Level dB μ V				
2390.00	E	Average	34.67	34.67	-1.74	32.93	54.00	-21.07
2390.00	E	Peak	49.91	49.91	-1.74	48.17	74.00	-25.83

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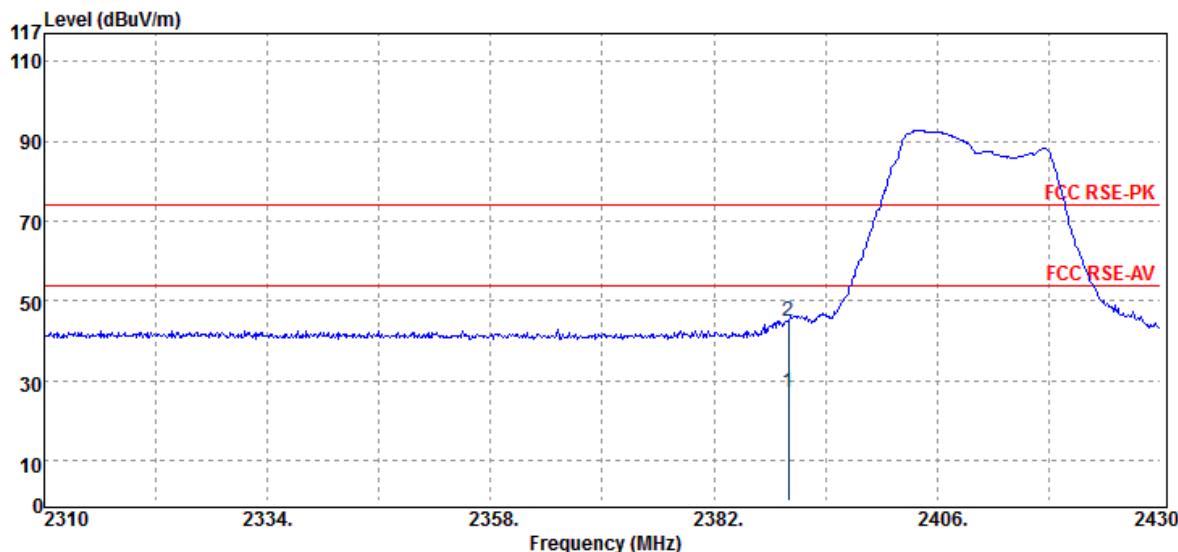
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Operation Band :802.11g
 Fundamental Frequency :2412 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2017-03-14
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor	Actual FS	Limit @3m	Margin
			PK/QP/AV	dB μ V				
2390.00	E	Average	28.77	28.77	-1.74	27.03	54.00	-26.97
2390.00	E	Peak	46.84	46.84	-1.74	45.10	74.00	-28.90

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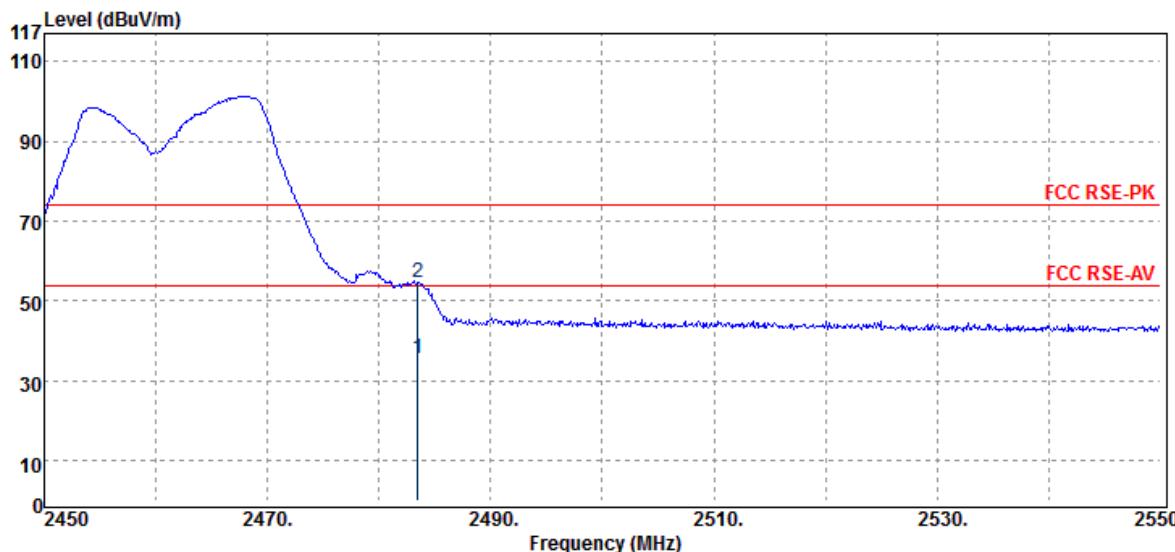
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Operation Band :802.11g
 Fundamental Frequency :2462 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-14
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Margin
			PK/QP/AV	Reading Level dB μ V				
2483.50	E	Average	37.05	37.05	-1.62	35.43	54.00	-18.57
2483.50	E	Peak	56.10	56.10	-1.62	54.48	74.00	-19.52

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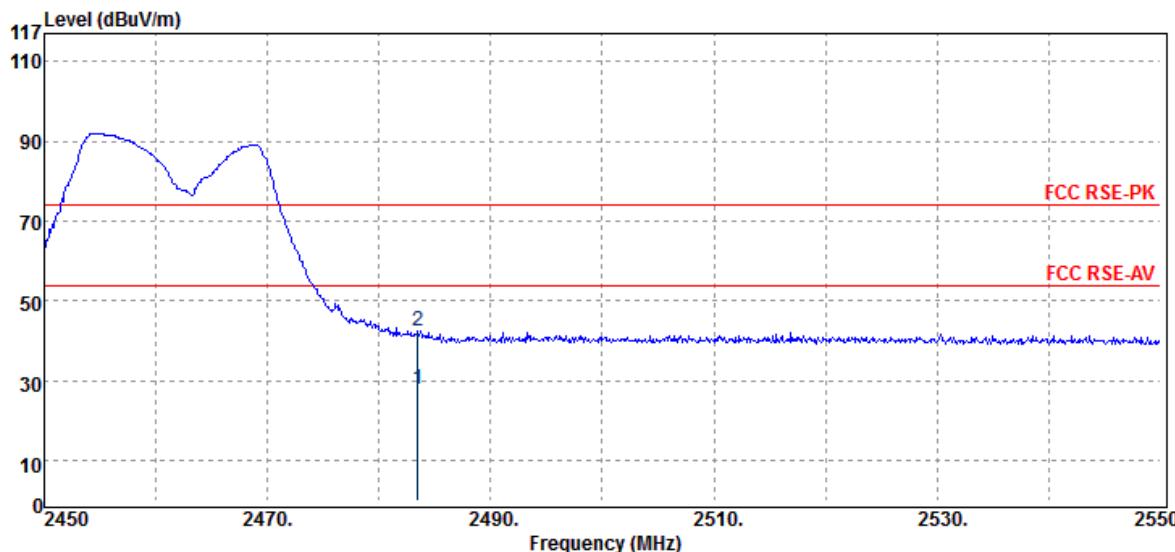
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Operation Band :802.11g
 Fundamental Frequency :2462 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-14
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Margin
			PK/QP/AV	Reading Level dB μ V				
2483.50	E	Average	29.43	29.43	-1.62	27.81	54.00	-26.19
2483.50	E	Peak	44.20	44.20	-1.62	42.58	74.00	-31.42

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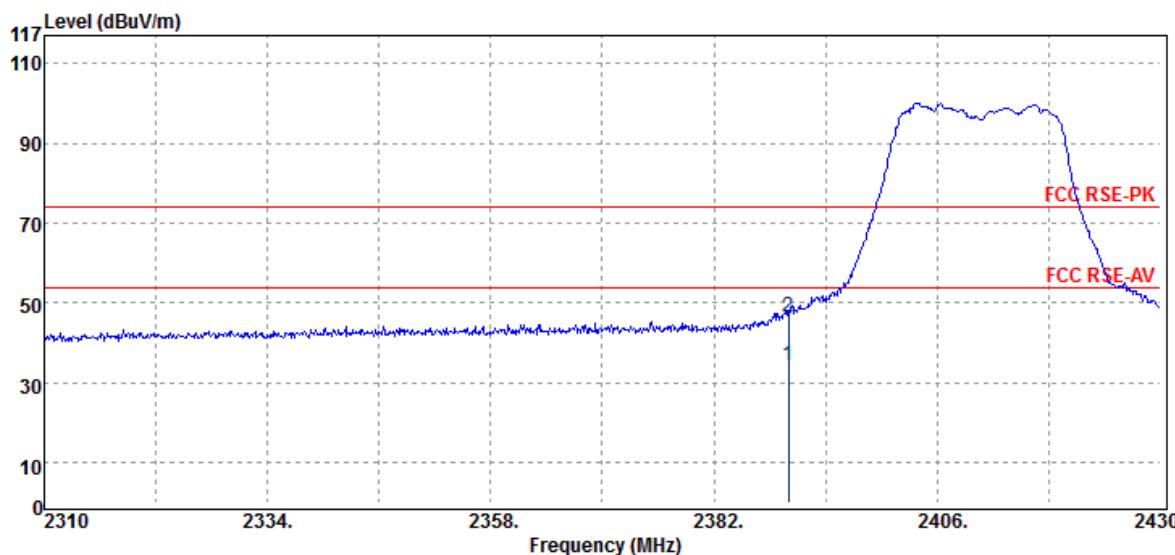
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Radiated Band Edge Measurement Result (802.11-HT20) *Dipole Antenna

Operation Band	:802.11n20	Test Date	:2017-03-15
Fundamental Frequency	:2412 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Margin
			PK/QP/AV	Reading Level dB μ V				
2390.00	E	Average	36.15	36.15	-1.74	34.41	54.00	-19.59
2390.00	E	Peak	48.44	48.44	-1.74	46.70	74.00	-27.30

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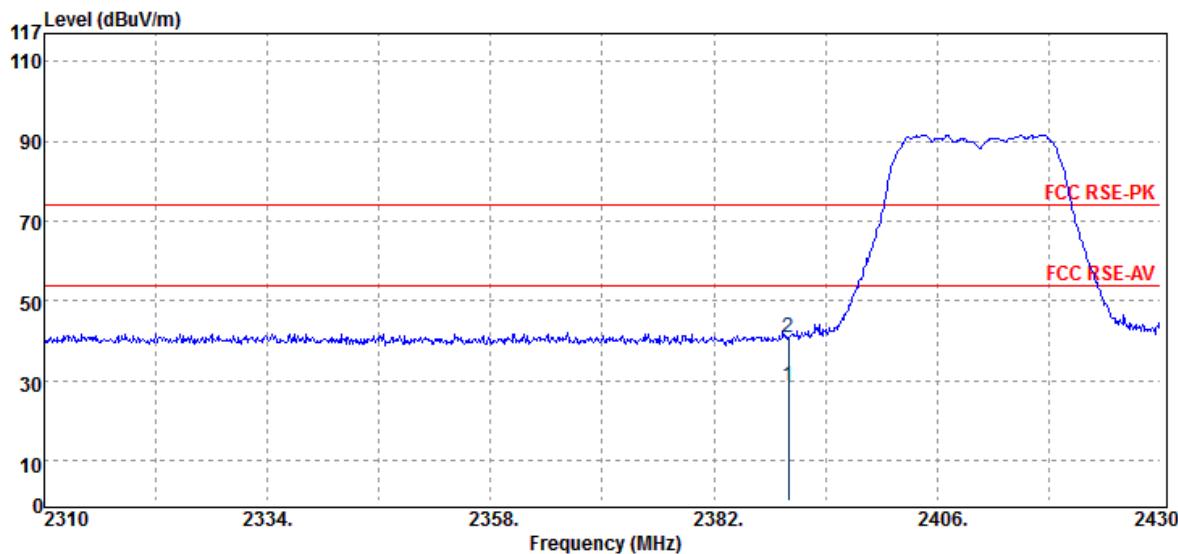
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Operation Band :802.11n20
 Fundamental Frequency :2412 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Margin
			PK/QP/AV	Reading Level dB μ V				
2390.00	E	Average	30.59	30.59	-1.74	28.85	54.00	-25.15
2390.00	E	Peak	42.57	42.57	-1.74	40.83	74.00	-33.17

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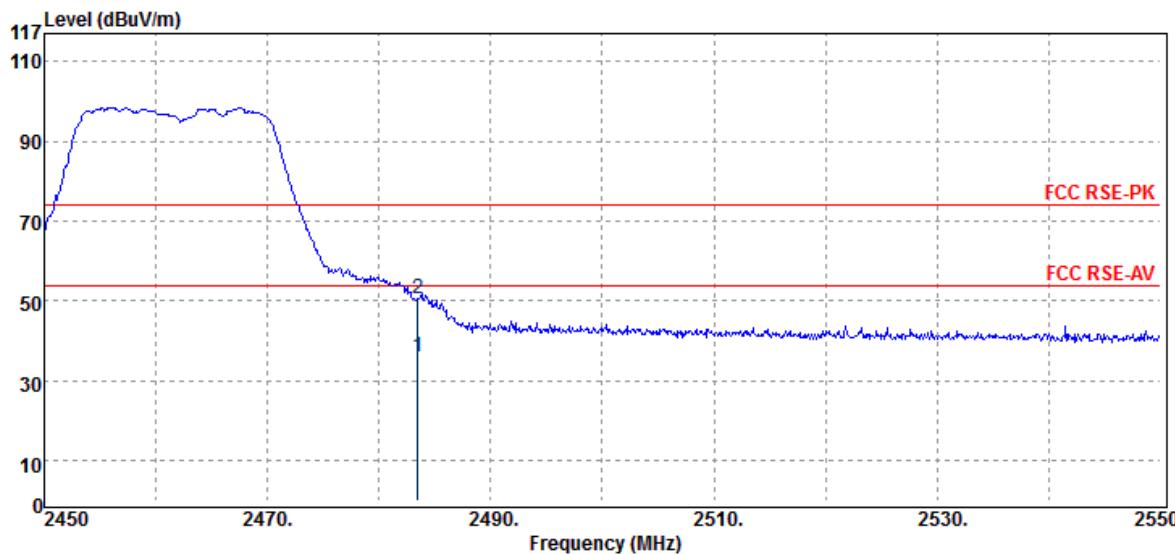
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Operation Band :802.11n20
 Fundamental Frequency :2462 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Margin
			PK/QP/AV	Reading Level dB μ V				
2483.50	E	Average	37.85	37.85	-1.62	36.23	54.00	-17.77
2483.50	E	Peak	52.29	52.29	-1.62	50.67	74.00	-23.33

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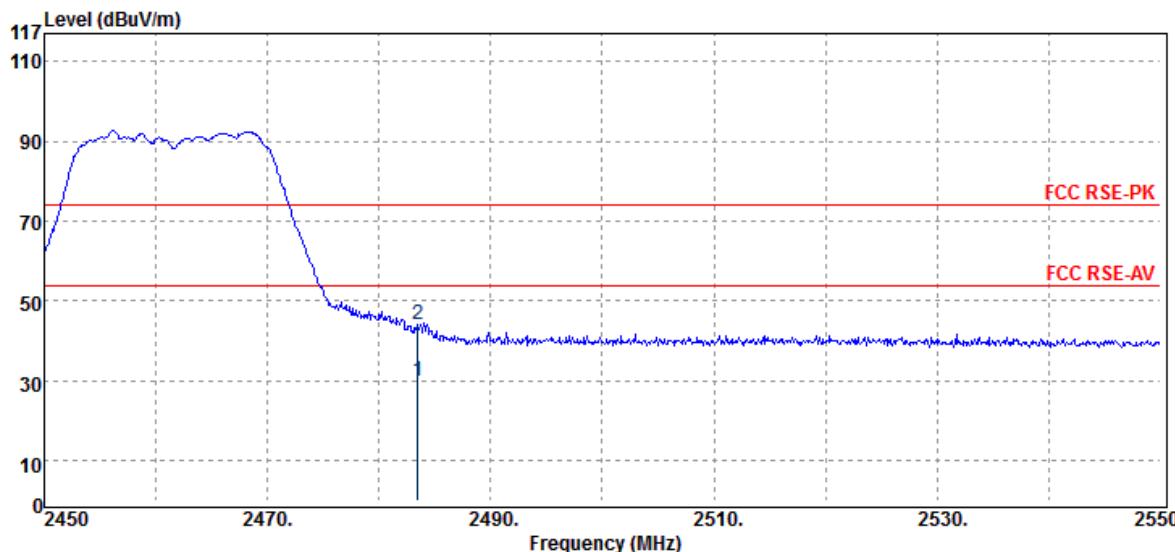
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Operation Band :802.11n20
 Fundamental Frequency :2462 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Margin
			PK/QP/AV	Reading Level dB μ V				
2483.50	E	Average	31.42	31.42	-1.62	29.80	54.00	-24.20
2483.50	E	Peak	45.74	45.74	-1.62	44.12	74.00	-29.88

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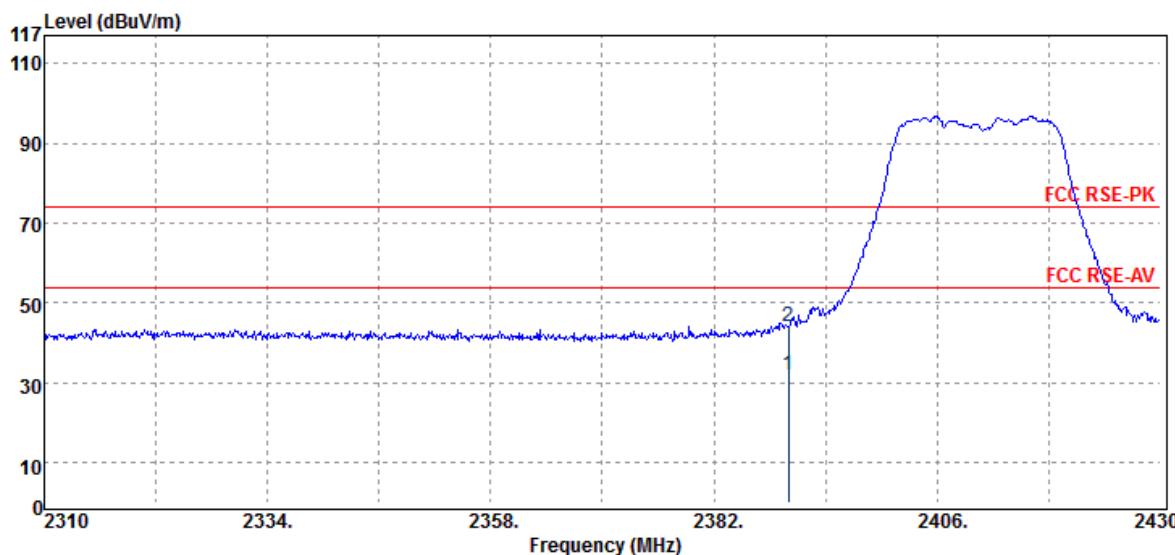
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*PCB Antenna

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

Test Date :2017-03-14
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Margin
			PK/QP/AV	Reading Level dB μ V				
2390.00	E	Average	33.60	33.60	-1.74	31.86	54.00	-22.14
2390.00	E	Peak	45.97	45.97	-1.74	44.23	74.00	-29.77

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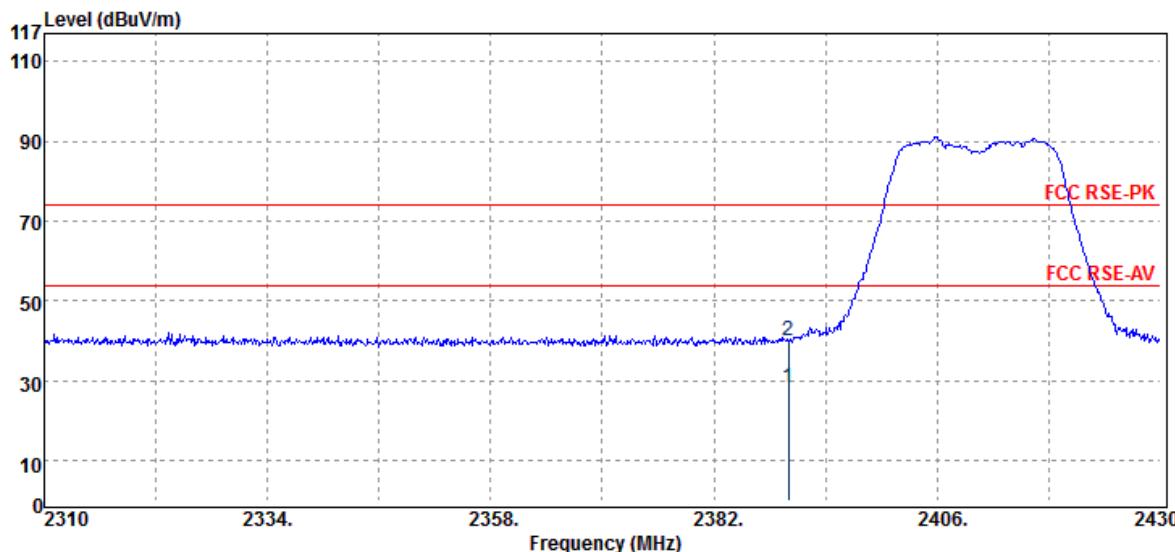
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Operation Band :802.11n20
 Fundamental Frequency :2412 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2017-03-14
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Margin
			PK/QP/AV	Reading Level dB μ V				
2390.00	E	Average	30.10	30.10	-1.74	28.36	54.00	-25.64
2390.00	E	Peak	41.67	41.67	-1.74	39.93	74.00	-34.07

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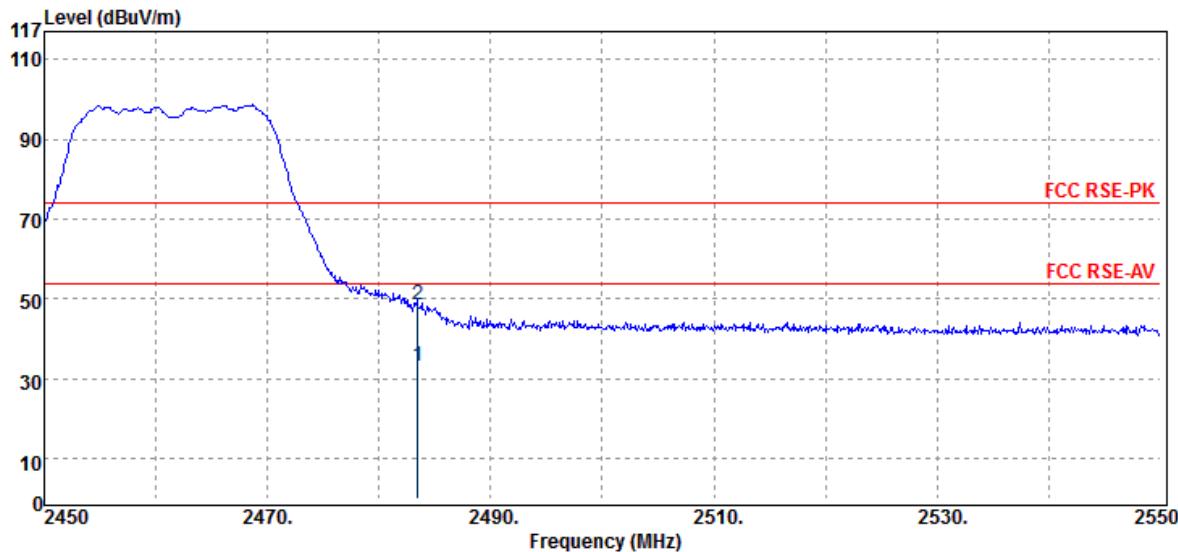
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Operation Band :802.11n20
 Fundamental Frequency :2462 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-14
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS dB ^μ V	Limit @3m dB ^μ V/m	Margin dB
			PK/QP/AV	Reading Level dB ^μ V				
2483.50	E	Average		34.78	-1.62	33.16	54.00	-20.84
2483.50	E	Peak		50.14	-1.62	48.52	74.00	-25.48

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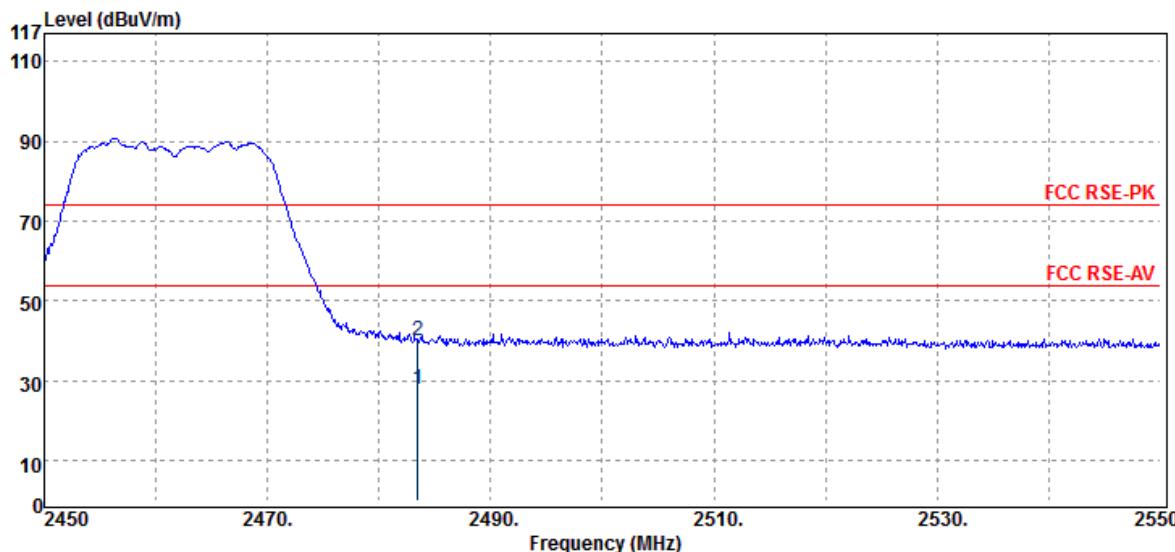
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Operation Band :802.11n20
 Fundamental Frequency :2462 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-14
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Margin
			PK/QP/AV	Reading Level dB μ V				
2483.50	E	Average	29.41	29.41	-1.62	27.79	54.00	-26.21
2483.50	E	Peak	41.52	41.52	-1.62	39.90	74.00	-34.10

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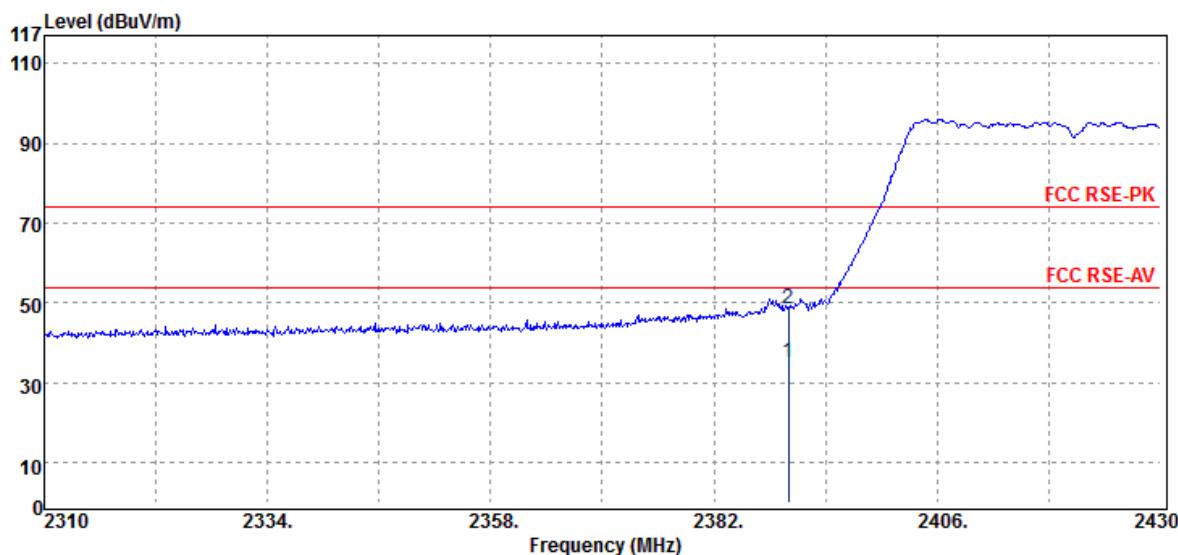
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Radiated Band Edge Measurement Result (802.11-HT40) *Dipole Antenna

Operation Band	:802.11n40	Test Date	:2017-03-15
Fundamental Frequency	:2422 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Margin
			PK/QP/AV	Reading Level dB μ V				
2390.00	E	Average	37.00	37.00	-1.74	35.26	54.00	-18.74
2390.00	E	Peak	50.34	50.34	-1.74	48.60	74.00	-25.40

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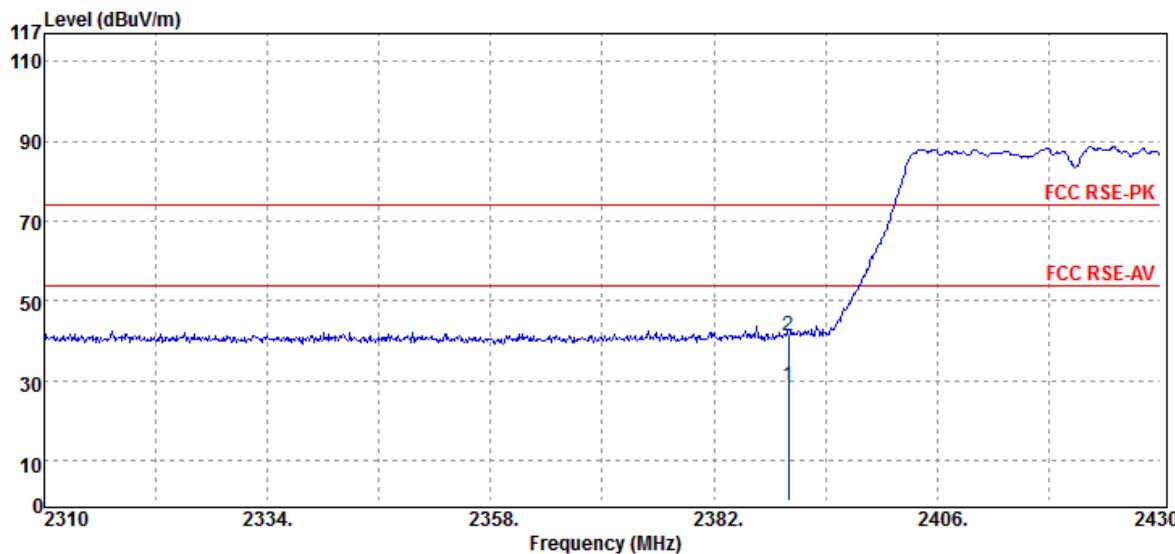
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Operation Band :802.11n40
 Fundamental Frequency :2422 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2017-03-16
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Margin
			PK/QP/AV	Reading Level dB μ V				
2390.00	E	Average	30.65	30.65	-1.74	28.91	54.00	-25.09
2390.00	E	Peak	43.07	43.07	-1.74	41.33	74.00	-32.67

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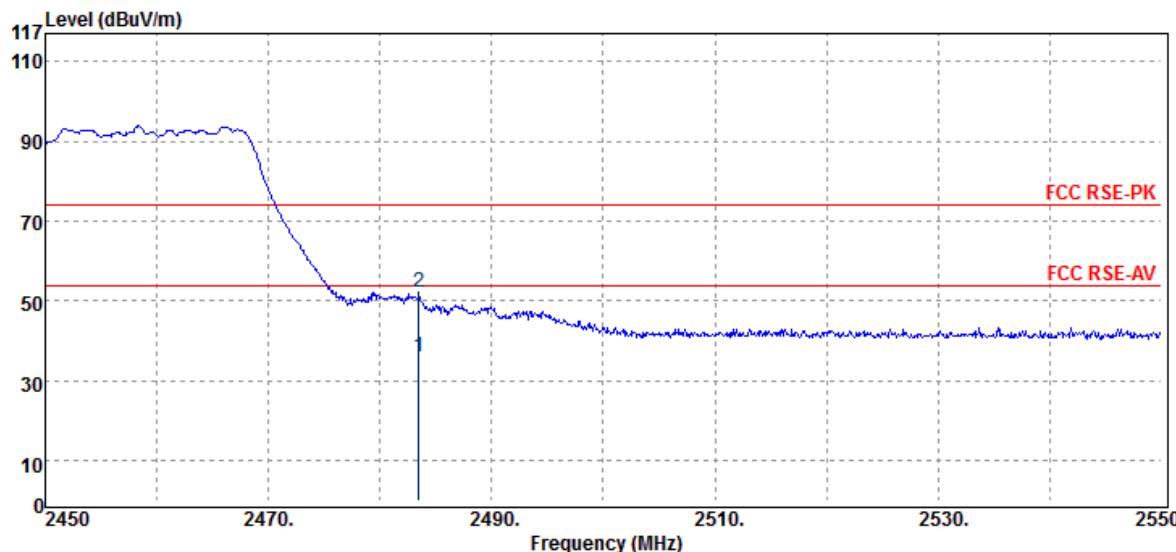
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Operation Band :802.11n40
 Fundamental Frequency :2452 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-16
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Margin
			PK/QP/AV	Reading Level dB μ V				
2483.50	E	Average	37.78	37.78	-1.62	36.16	54.00	-17.84
2483.50	E	Peak	53.69	53.69	-1.62	52.07	74.00	-21.93

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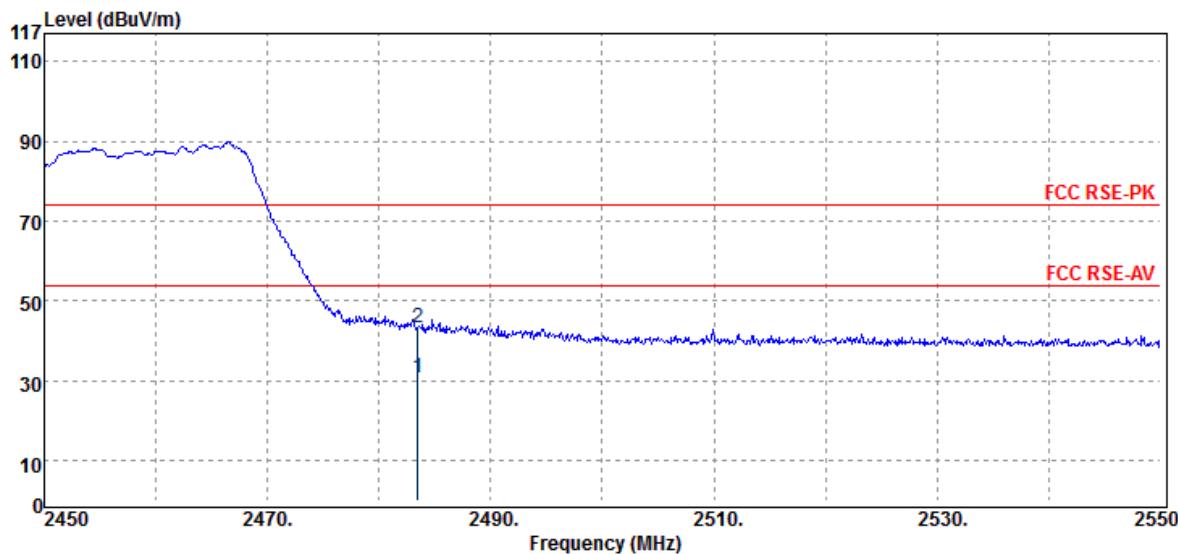
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Operation Band :802.11n40
 Fundamental Frequency :2452 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-16
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Margin
			PK/QP/AV	Reading Level dB μ V				
2483.50	E	Average	32.30	32.30	-1.62	30.68	54.00	-23.32
2483.50	E	Peak	45.03	45.03	-1.62	43.41	74.00	-30.59

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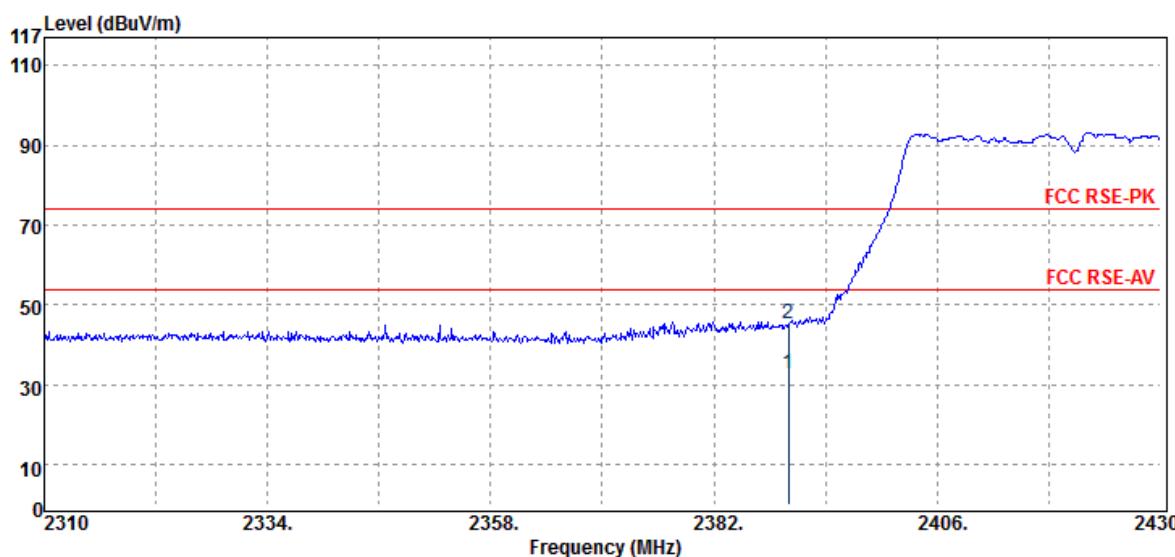
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*PCB Antenna

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

Test Date :2017-03-14
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Margin
			PK/QP/AV	Reading Level dB μ V				
2390.00	E	Average	34.40	34.40	-1.74	32.66	54.00	-21.34
2390.00	E	Peak	47.09	47.09	-1.74	45.35	74.00	-28.65

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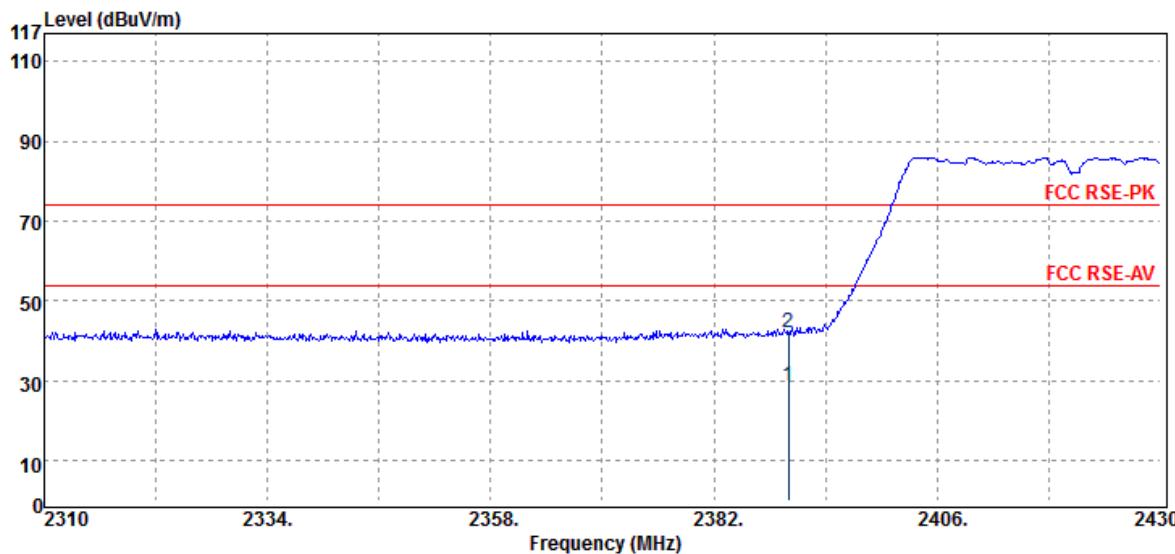
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Operation Band :802.11n40
 Fundamental Frequency :2422 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :H Plane

Test Date :2017-03-14
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Margin
			PK/QP/AV	Reading Level dB μ V				
2390.00	E	Average	30.50	30.50	-1.74	28.76	54.00	-25.24
2390.00	E	Peak	43.76	43.76	-1.74	42.02	74.00	-31.98

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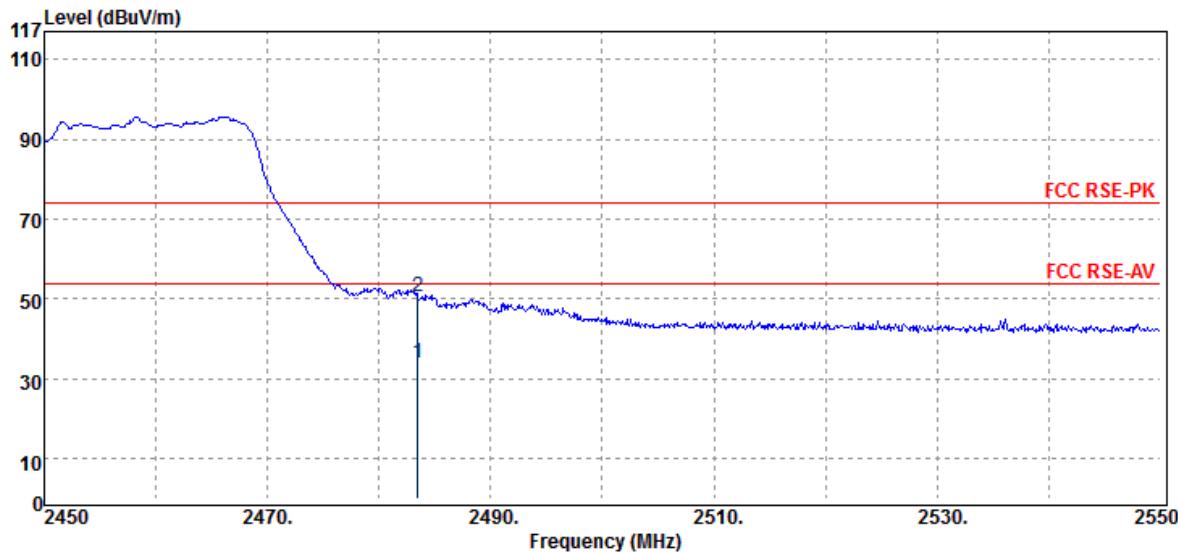
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Operation Band :802.11n40
 Fundamental Frequency :2452 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-14
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Margin
			PK/QP/AV	Reading Level dB μ V				
2483.50	E	Average	35.76	35.76	-1.62	34.14	54.00	-19.86
2483.50	E	Peak	52.33	52.33	-1.62	50.71	74.00	-23.29

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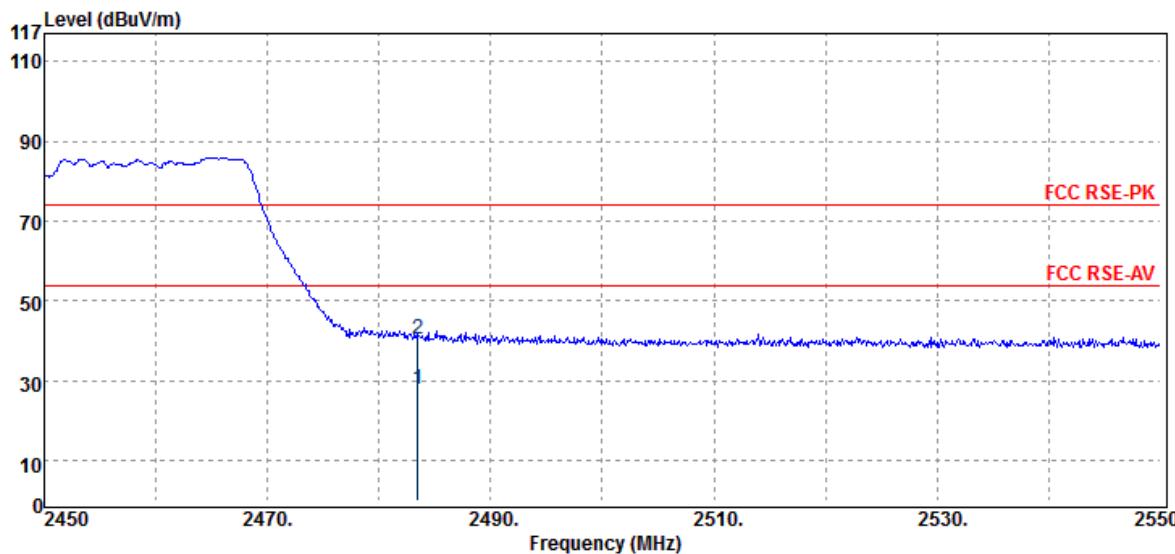
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Operation Band :802.11n40
 Fundamental Frequency :2452 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-14
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Margin
			PK/QP/AV	Reading Level dB μ V				
2483.50	E	Average	29.75	29.75	-1.62	28.13	54.00	-25.87
2483.50	E	Peak	42.07	42.07	-1.62	40.45	74.00	-33.55

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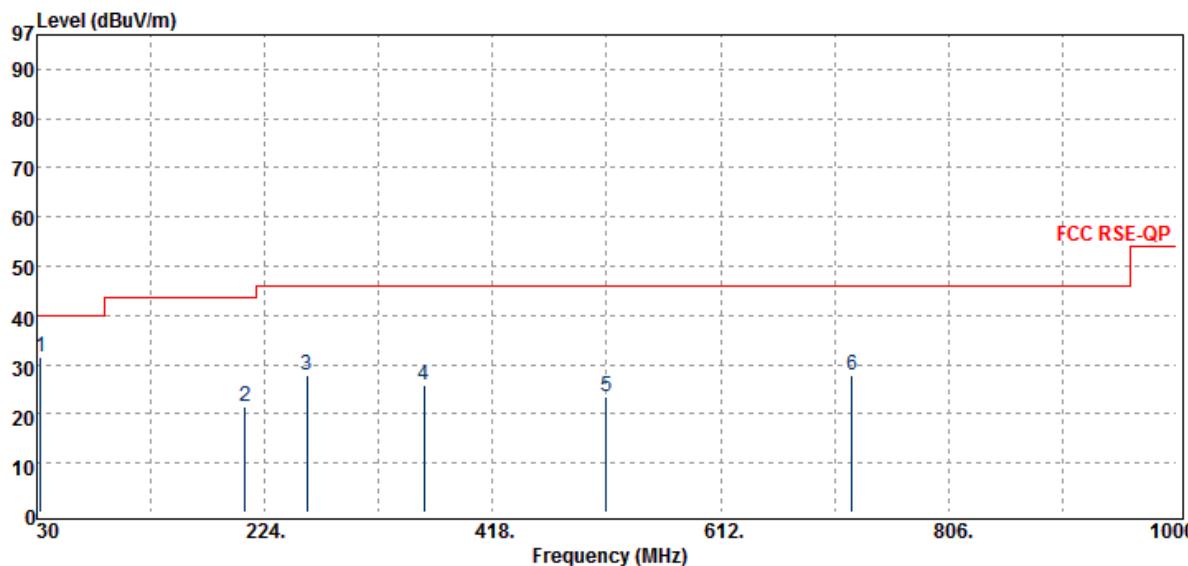
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Below 1GHz Worst-Case Data:

Radiated Spurious Emission Measurement Result (802.11 g) *Dipole Antenna

Operation Band	:802.11g	Test Date	:2017-03-15
Fundamental Frequency	:2412 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	Reading Level dB μ V				
32.91	S	Peak		41.33	-9.68	31.65	40.00	-8.35
207.51	S	Peak		32.87	-11.24	21.63	43.50	-21.87
259.89	S	Peak		36.71	-8.93	27.78	46.00	-18.22
359.80	S	Peak		32.44	-6.75	25.69	46.00	-20.31
515.00	S	Peak		27.84	-4.36	23.48	46.00	-22.52
723.55	S	Peak		29.05	-1.14	27.91	46.00	-18.09

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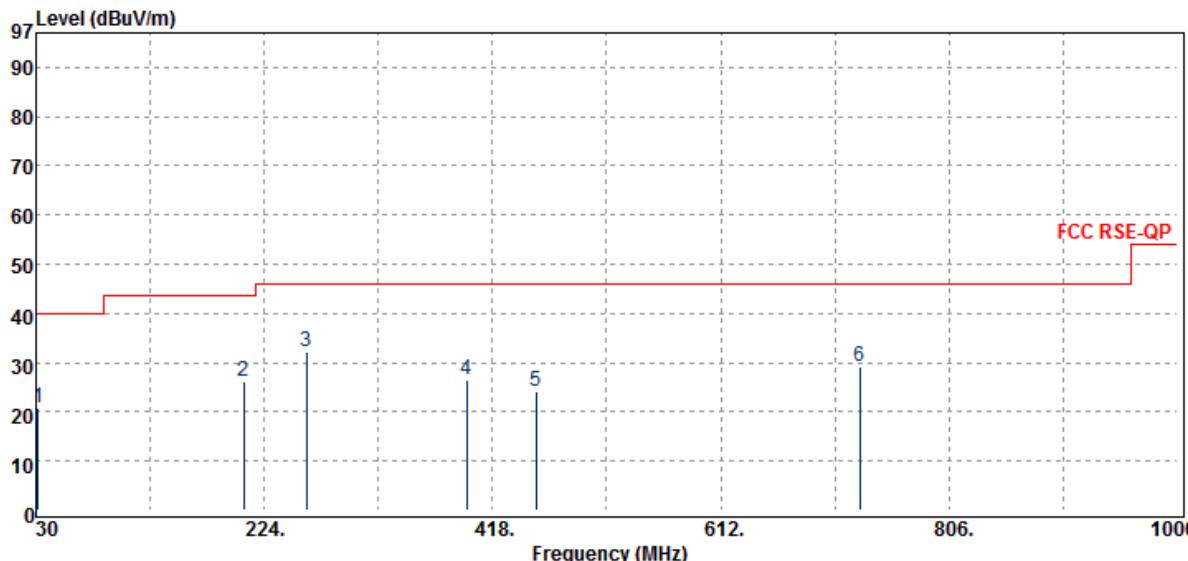
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Operation Band :802.11g
 Fundamental Frequency :2412 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
31.94	S	Peak	30.45	30.45	-9.71	20.74	40.00	-19.26
206.54	S	Peak	37.35	37.35	-11.22	26.13	43.50	-17.37
259.89	S	Peak	41.23	41.23	-8.93	32.30	46.00	-13.70
395.69	S	Peak	32.75	32.75	-6.12	26.63	46.00	-19.37
454.86	S	Peak	29.15	29.15	-5.02	24.13	46.00	-21.87
730.34	S	Peak	30.25	30.25	-1.01	29.24	46.00	-16.76

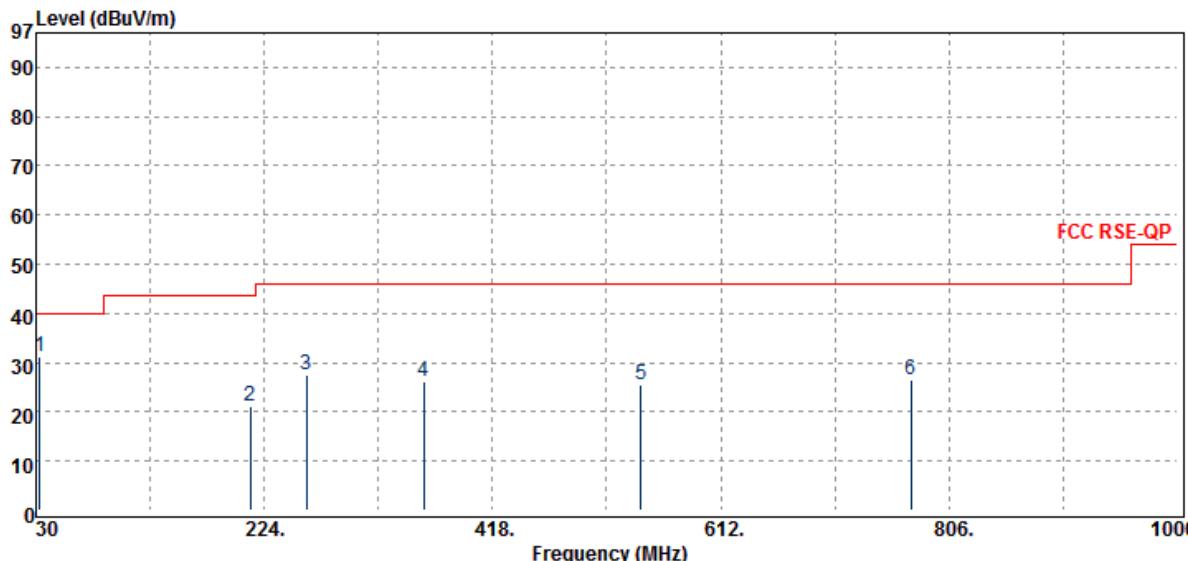
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Operation Band :802.11g
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			Reading	Level dB μ V				
32.91	S	Peak	41.04	-9.68	31.36	40.00	-8.64	
212.36	S	Peak	32.31	-11.19	21.12	43.50	-22.38	
259.89	S	Peak	36.34	-8.93	27.41	46.00	-18.59	
359.80	S	Peak	32.76	-6.75	26.01	46.00	-19.99	
544.10	S	Peak	29.55	-4.04	25.51	46.00	-20.49	
773.99	S	Peak	26.72	-0.10	26.62	46.00	-19.38	

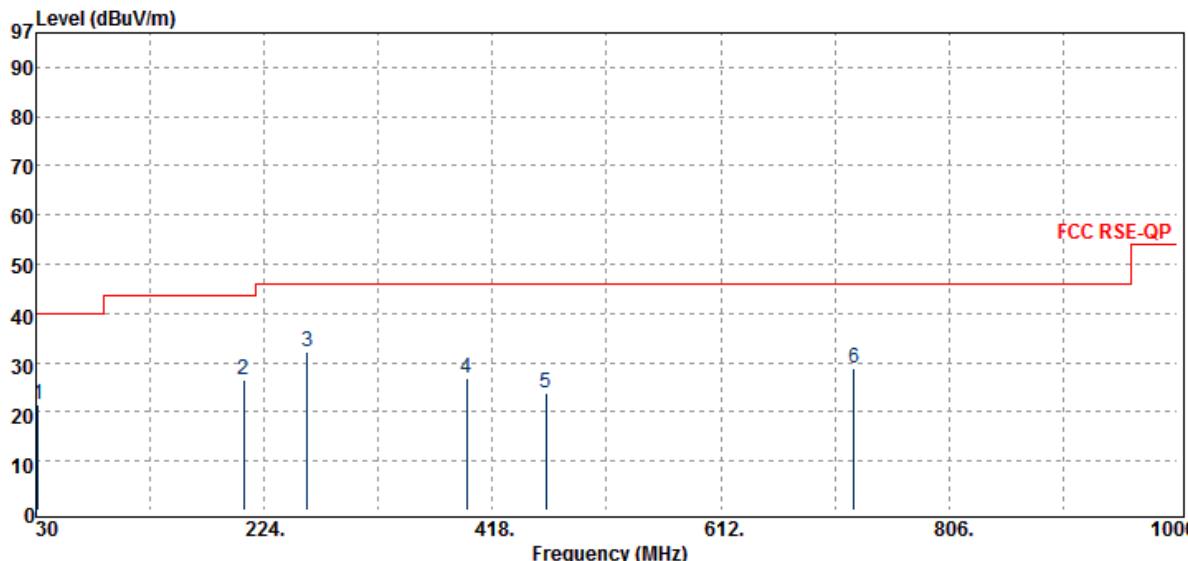
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Operation Band :802.11g
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Margin
			PK/QP/AV	Reading Level dB μ V				
31.94	S	Peak	31.09	31.09	-9.71	21.38	40.00	-18.62
206.54	S	Peak	37.78	37.78	-11.22	26.56	43.50	-16.94
260.86	S	Peak	41.09	41.09	-8.89	32.20	46.00	-13.80
395.69	S	Peak	32.92	32.92	-6.12	26.80	46.00	-19.20
463.59	S	Peak	28.67	28.67	-4.97	23.70	46.00	-22.30
725.49	S	Peak	29.76	29.76	-1.06	28.70	46.00	-17.30

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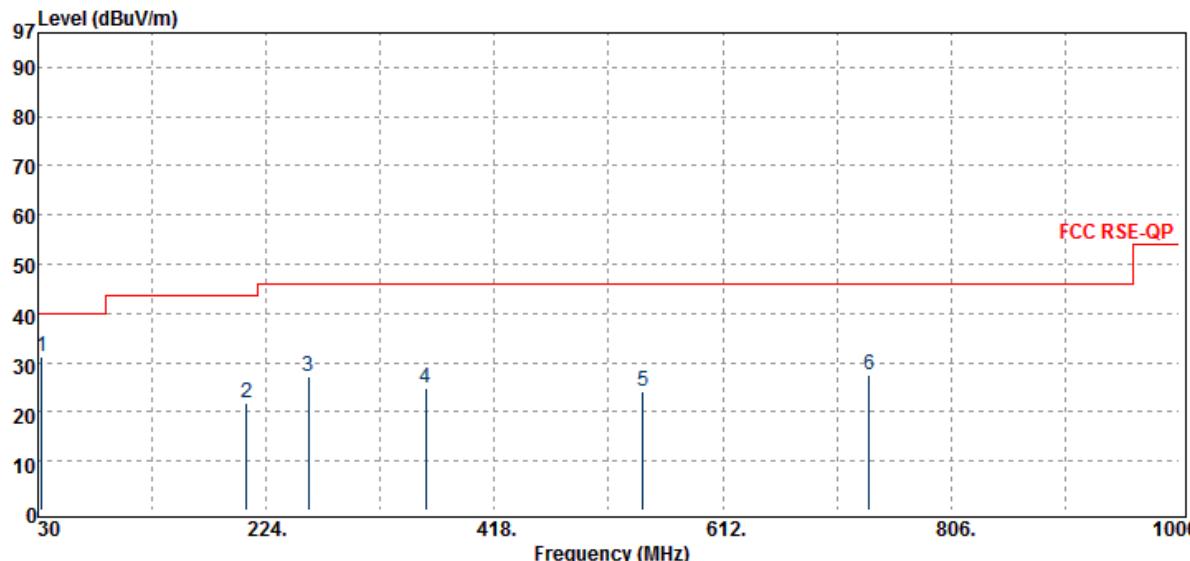
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Operation Band :802.11g
 Fundamental Frequency :2462 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			Reading	Level dB μ V				
32.91	S	Peak	41.05	-9.68	31.37	40.00	-8.63	
207.51	S	Peak	32.89	-11.24	21.65	43.50	-21.85	
259.89	S	Peak	36.19	-8.93	27.26	46.00	-18.74	
359.80	S	Peak	31.45	-6.75	24.70	46.00	-21.30	
544.10	S	Peak	28.33	-4.04	24.29	46.00	-21.71	
736.16	S	Peak	28.39	-0.83	27.56	46.00	-18.44	

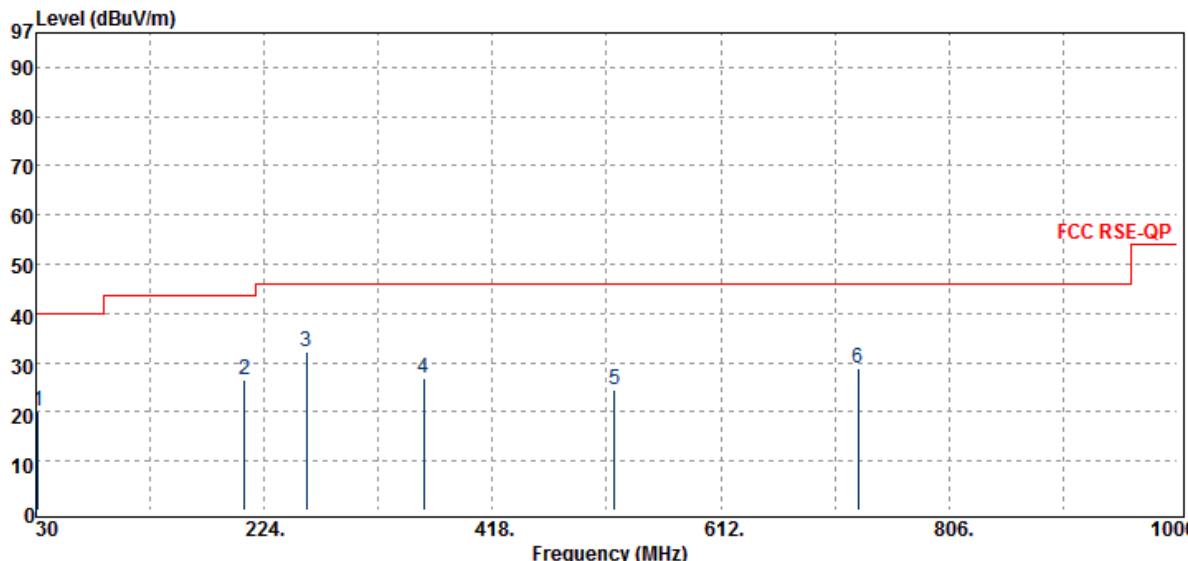
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Operation Band :802.11g
 Fundamental Frequency :2462 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Margin
			PK/QP/AV	Reading Level dB μ V				
31.94	S	Peak	29.94	-9.71	20.23	40.00	-19.77	
207.51	S	Peak	37.74	-11.24	26.50	43.50	-17.00	
259.89	S	Peak	41.20	-8.93	32.27	46.00	-13.73	
359.80	S	Peak	33.68	-6.75	26.93	46.00	-19.07	
521.79	S	Peak	28.77	-4.37	24.40	46.00	-21.60	
728.40	S	Peak	29.71	-1.01	28.70	46.00	-17.30	

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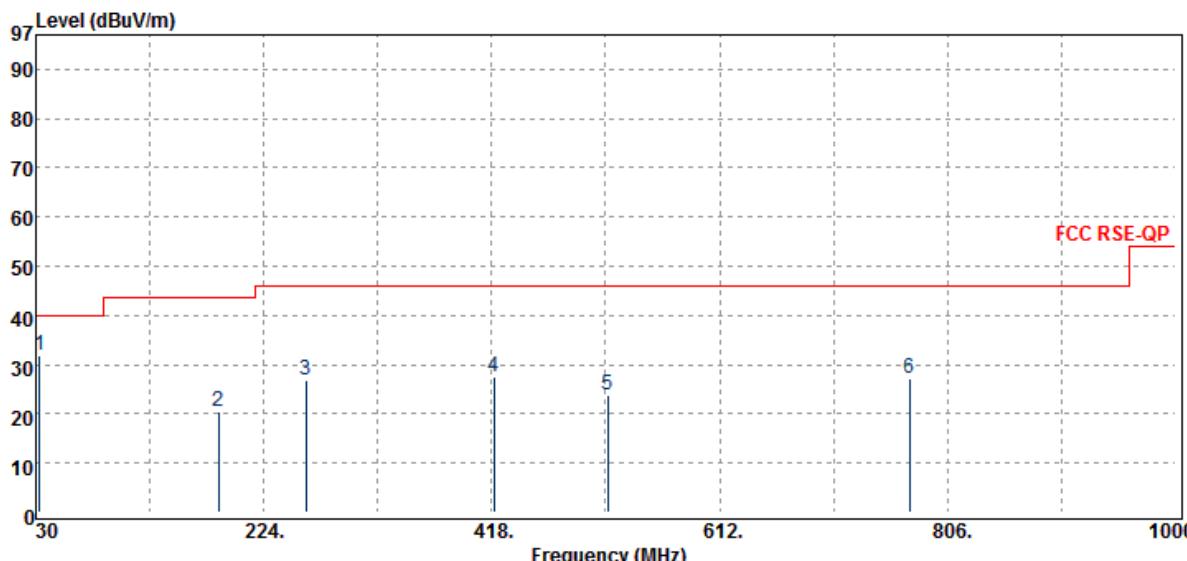
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*PCB Antenna

Operation Band	:802.11g	Test Date	:2017-03-15
Fundamental Frequency	:2412 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Margin
			Reading	Level				
		PK/QP/AV	dB μ V	dB	dB	dB μ V/m	dB μ V/m	dB
32.91	S	Peak	41.51	-9.68	31.83	40.00	-8.17	
185.20	S	Peak	30.89	-10.41	20.48	43.50	-23.02	
259.89	S	Peak	35.85	-8.93	26.92	46.00	-19.08	
419.94	S	Peak	33.04	-5.68	27.36	46.00	-18.64	
516.94	S	Peak	28.01	-4.33	23.68	46.00	-22.32	
773.99	S	Peak	27.42	-0.10	27.32	46.00	-18.68	

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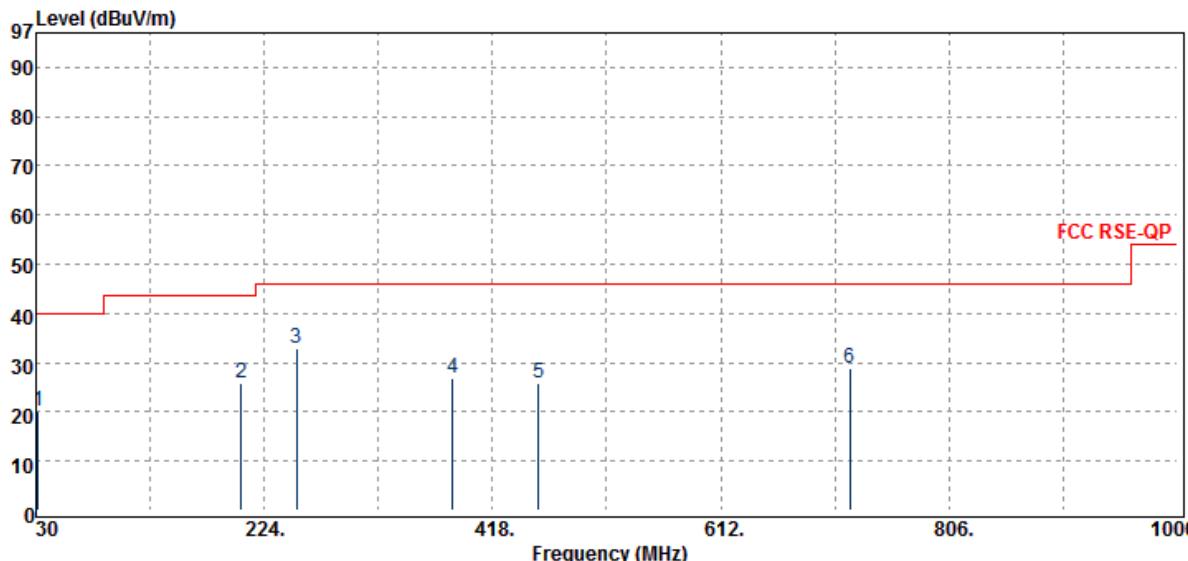
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Operation Band :802.11g
 Fundamental Frequency :2412 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
31.94	S	Peak	29.86	29.86	-9.71	20.15	40.00	-19.85
204.60	S	Peak	37.12	37.12	-11.20	25.92	43.50	-17.58
251.16	S	Peak	42.31	42.31	-9.47	32.84	46.00	-13.16
384.05	S	Peak	33.26	33.26	-6.37	26.89	46.00	-19.11
456.80	S	Peak	30.72	30.72	-4.99	25.73	46.00	-20.27
721.61	S	Peak	30.12	30.12	-1.15	28.97	46.00	-17.03

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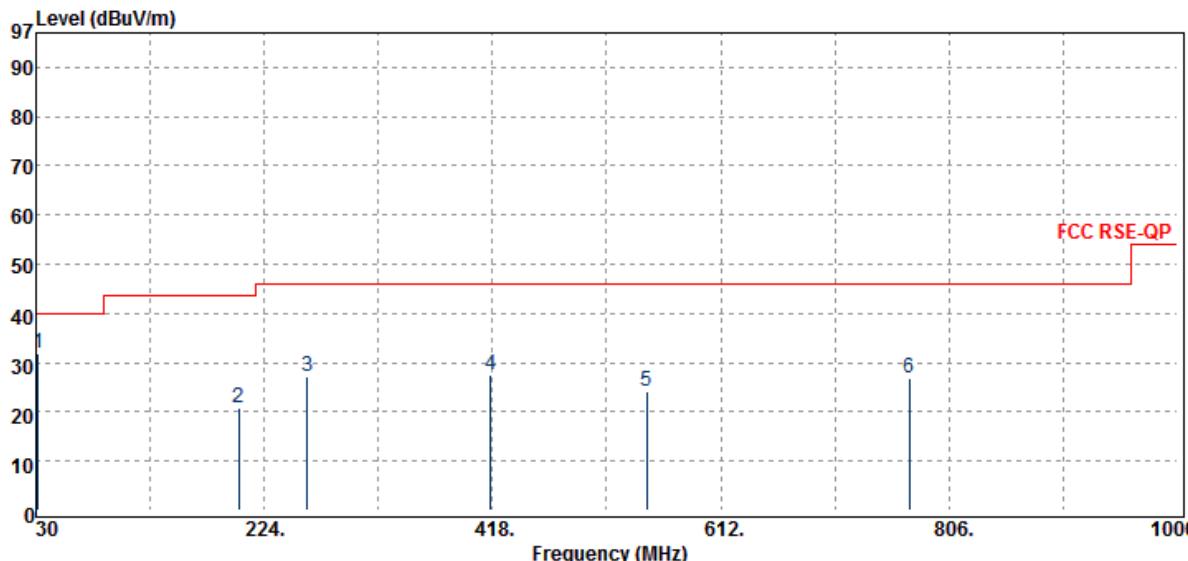
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Operation Band :802.11g
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
31.94	S	Peak	41.56	-9.71	31.85	40.00	-8.15	
202.66	S	Peak	32.09	-11.19	20.90	43.50	-22.60	
260.86	S	Peak	36.22	-8.89	27.33	46.00	-18.67	
416.06	S	Peak	33.30	-5.73	27.57	46.00	-18.43	
548.95	S	Peak	28.17	-4.14	24.03	46.00	-21.97	
772.05	S	Peak	27.08	-0.10	26.98	46.00	-19.02	

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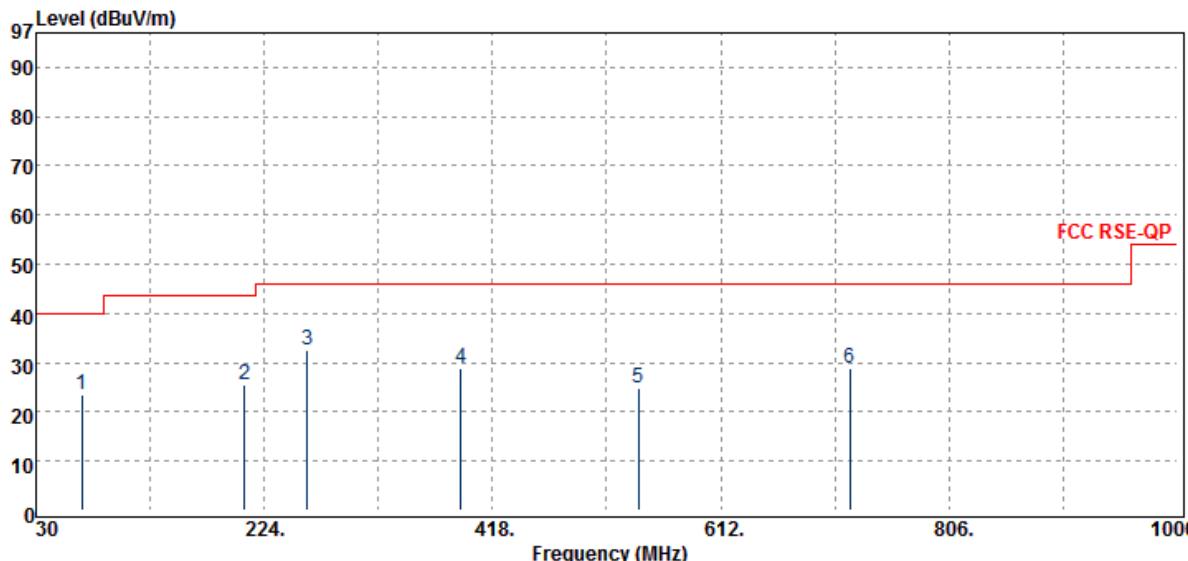
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Operation Band :802.11g
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
68.80	S	Peak	34.51	34.51	-10.89	23.62	40.00	-16.38
207.51	S	Peak	36.68	36.68	-11.24	25.44	43.50	-18.06
260.86	S	Peak	41.36	41.36	-8.89	32.47	46.00	-13.53
390.84	S	Peak	35.11	35.11	-6.21	28.90	46.00	-17.10
542.16	S	Peak	28.83	28.83	-4.09	24.74	46.00	-21.26
721.61	S	Peak	29.95	29.95	-1.15	28.80	46.00	-17.20

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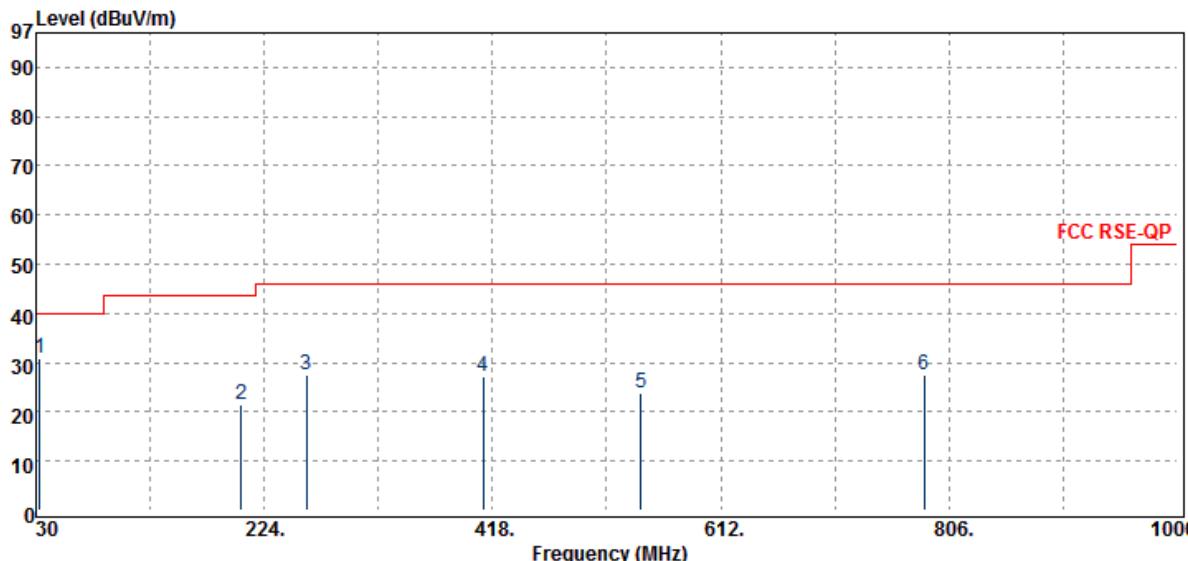
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Operation Band :802.11g
 Fundamental Frequency :2462 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
32.91	S	Peak	40.55	40.55	-9.68	30.87	40.00	-9.13
204.60	S	Peak	32.56	32.56	-11.20	21.36	43.50	-22.14
259.89	S	Peak	36.31	36.31	-8.93	27.38	46.00	-18.62
410.24	S	Peak	33.03	33.03	-5.85	27.18	46.00	-18.82
544.10	S	Peak	27.97	27.97	-4.04	23.93	46.00	-22.07
784.66	S	Peak	27.47	27.47	-0.06	27.41	46.00	-18.59

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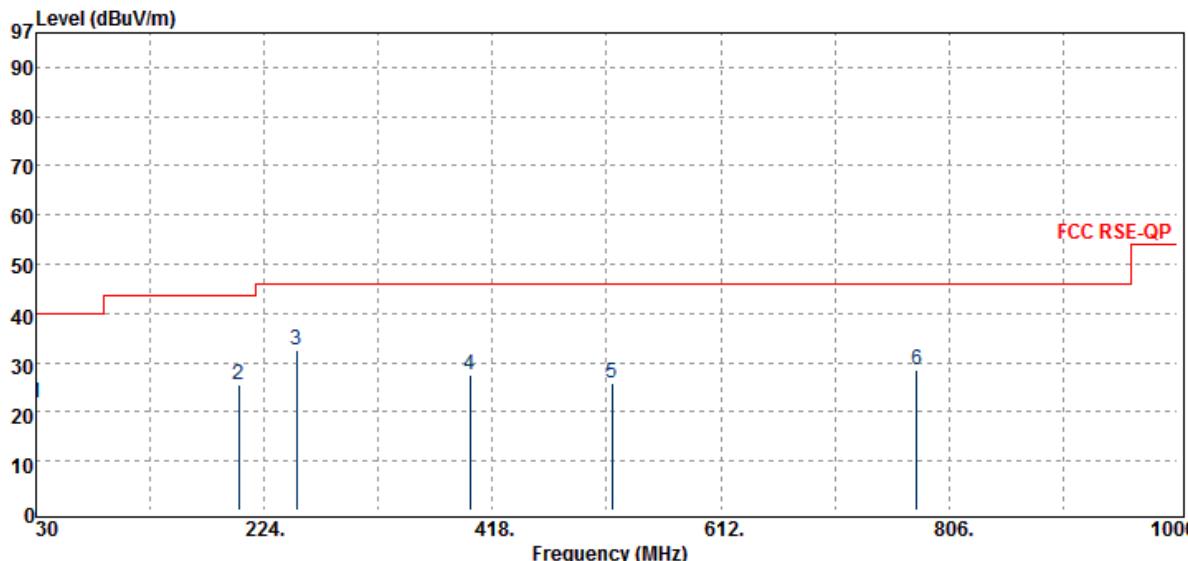
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Operation Band :802.11g
 Fundamental Frequency :2462 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
30.00	S	Peak	31.66	31.66	-9.77	21.89	40.00	-18.11
202.66	S	Peak	36.69	36.69	-11.19	25.50	43.50	-18.00
251.16	S	Peak	41.91	41.91	-9.47	32.44	46.00	-13.56
398.60	S	Peak	33.60	33.60	-6.04	27.56	46.00	-18.44
519.85	S	Peak	30.27	30.27	-4.35	25.92	46.00	-20.08
778.84	S	Peak	28.49	28.49	-0.04	28.45	46.00	-17.55

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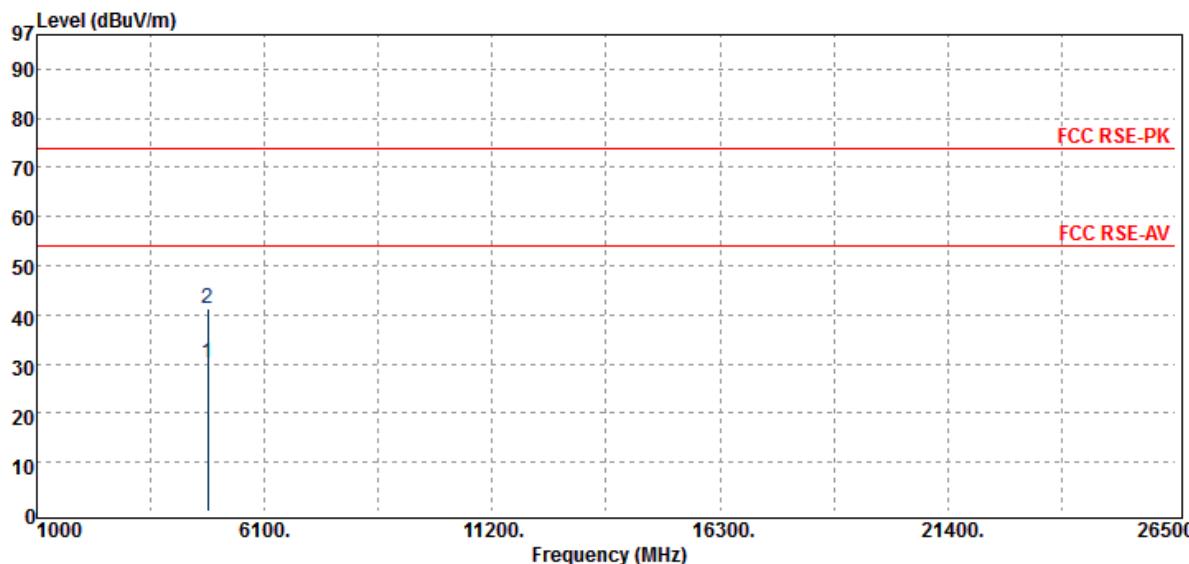
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Above 1GHz Data:**Radiated Spurious Emission Measurement Result (802.11 b) *Dipole Antenna**

Operation Band	:802.11b	Test Date	:2017-03-16
Fundamental Frequency	:2412 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
						dB μ V/m	dB
4824.00	H	Average	25.11	4.93	30.04	54.00	-23.96
4824.00	H	Peak	36.48	4.93	41.41	74.00	-32.59

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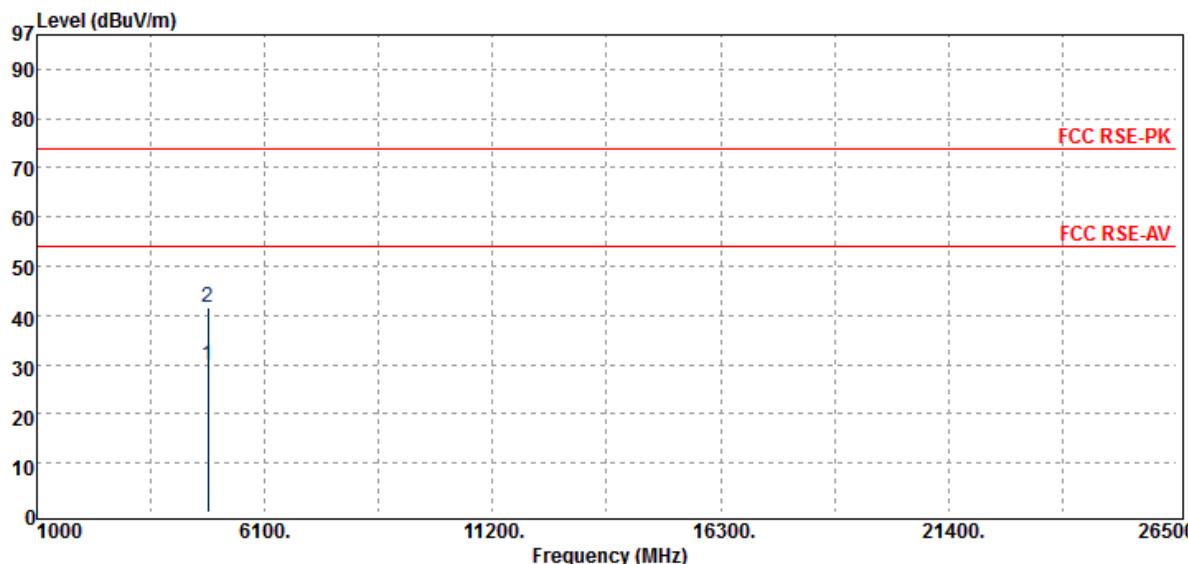
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Operation Band :802.11b
 Fundamental Frequency :2412 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2017-03-16
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS dB	Limit @3m dBuV/m	Safe Margin dB
			PK/QP/AV	Reading Level dB μ V				
4824.00	H	Average	25.04	4.93	29.97	54.00	-24.03	
4824.00	H	Peak	36.56	4.93	41.49	74.00	-32.51	

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

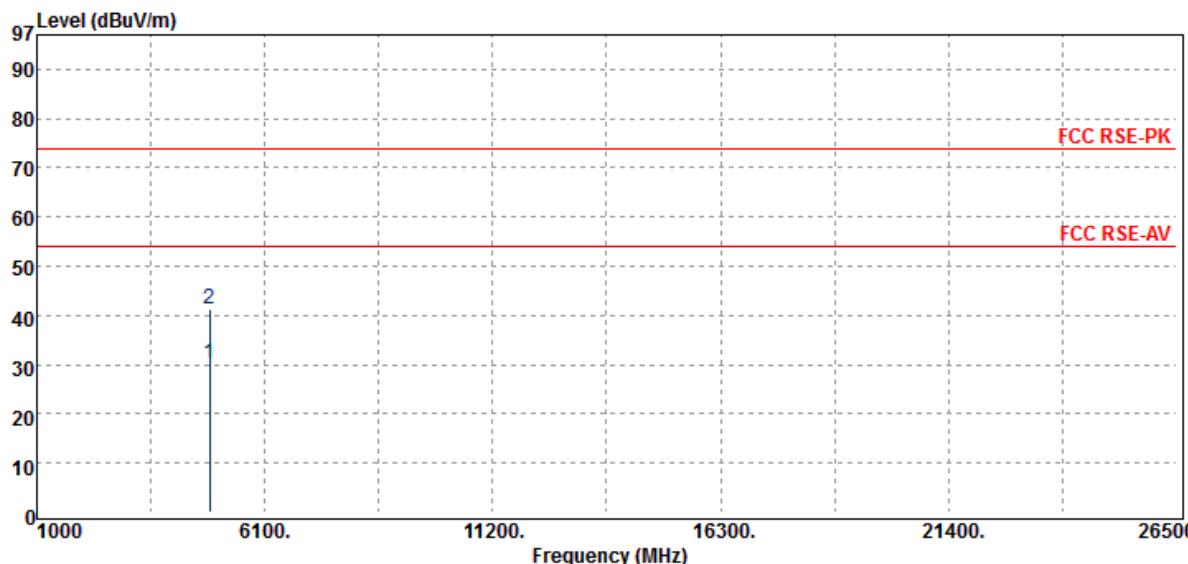
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Operation Band :802.11b
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2017-03-16
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor dB	Actual FS dB μ V	Limit @3m dB μ V/m	Safe Margin dB
			PK/QP/AV	Reading Level dB μ V				
4874.00	H	Average		25.04	5.13	30.17	54.00	-23.83
4874.00	H	Peak		36.13	5.13	41.26	74.00	-32.74

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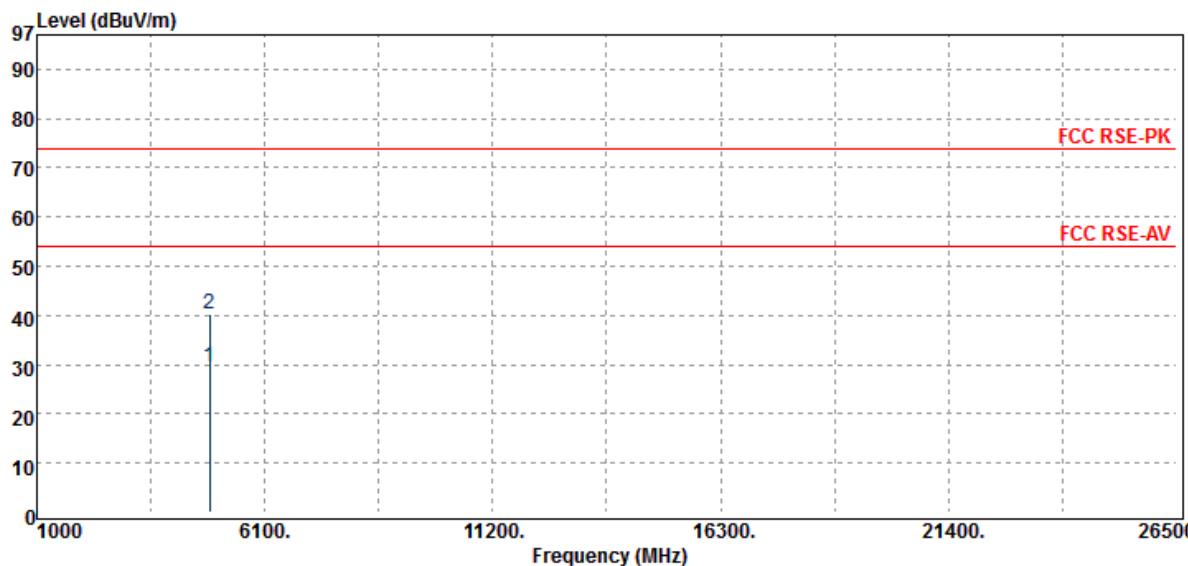
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Operation Band :802.11b
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V	Limit @3m dB μ V/m	Safe Margin dB
			PK/QP/AV	dB μ V				
4874.00	H	Average	24.46	24.46	5.13	29.59	54.00	-24.41
4874.00	H	Peak	35.29	35.29	5.13	40.42	74.00	-33.58

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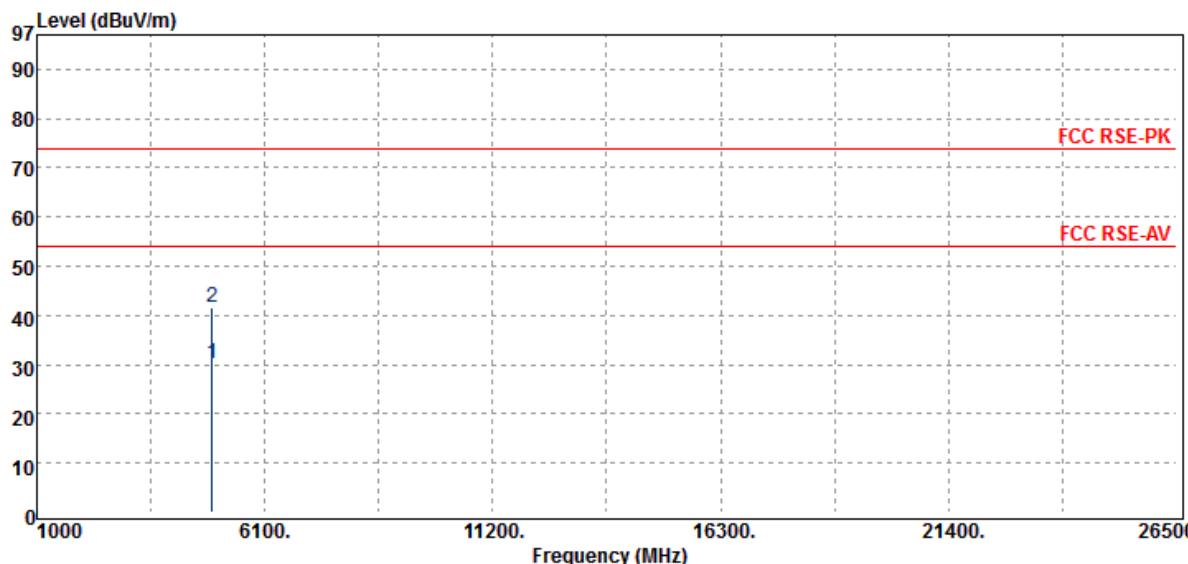
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Operation Band :802.11b
 Fundamental Frequency :2462 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-16
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS dB	Limit @3m dBuV/m	Safe Margin dB
			PK/QP/AV	Reading Level dB μ V				
4924.00	H	Average	24.94	24.94	5.25	30.19	54.00	-23.81
4924.00	H	Peak	36.41	36.41	5.25	41.66	74.00	-32.34

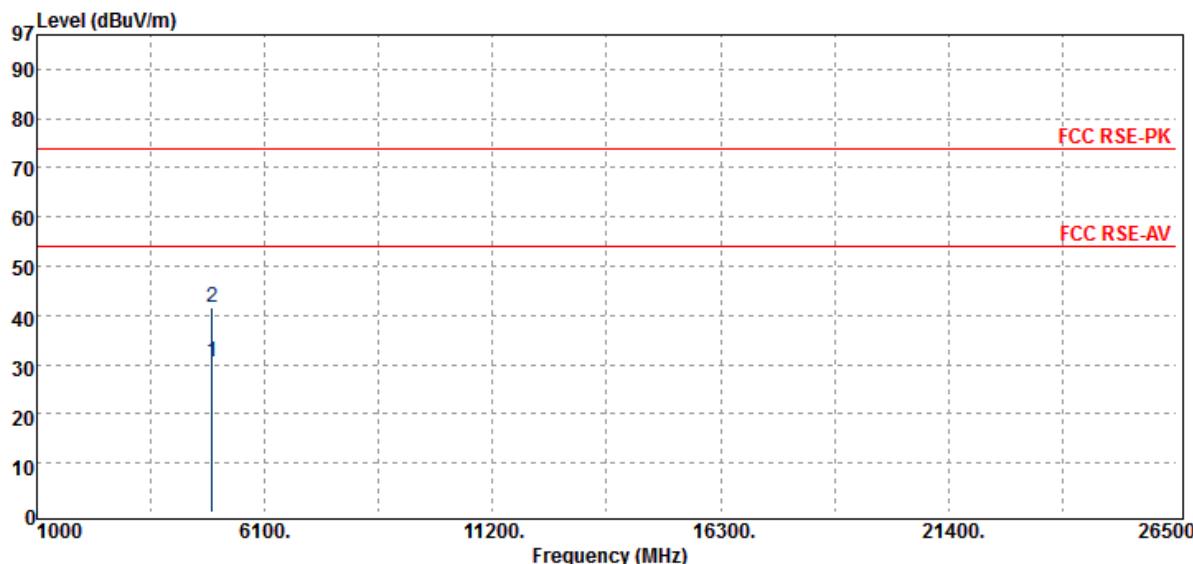
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Operation Band :802.11b
 Fundamental Frequency :2462 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-16
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor dB	Actual FS dB μ V	Limit @3m dB μ V/m	Safe Margin dB
			PK/QP/AV	Reading Level dB μ V				
4924.00	H	Average		25.13	5.25	30.38	54.00	-23.62
4924.00	H	Peak		36.28	5.25	41.53	74.00	-32.47

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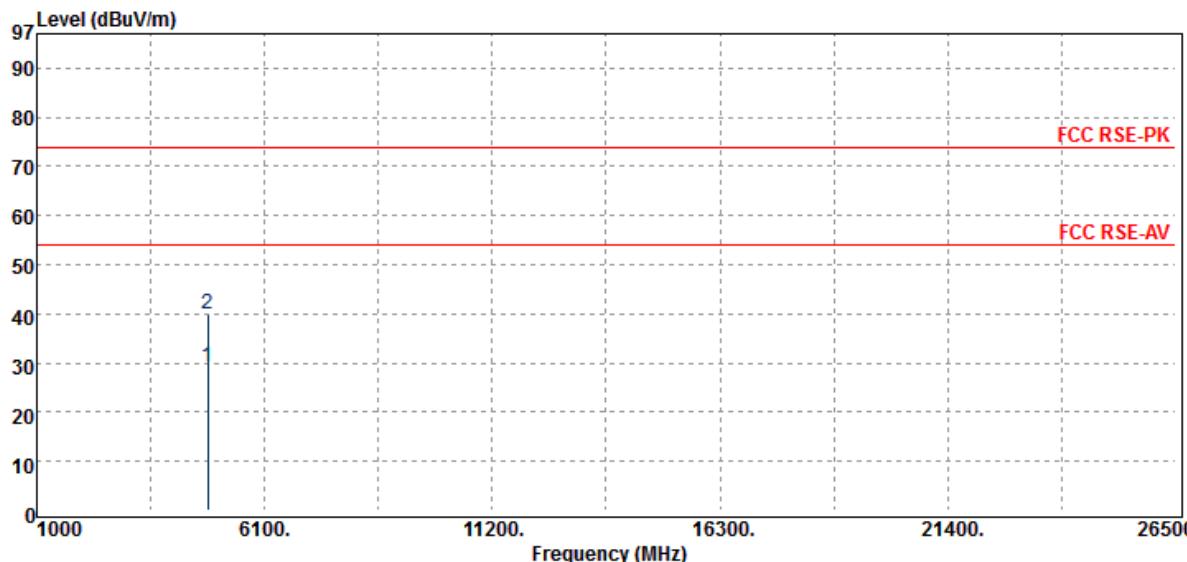
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*PCB Antenna

Operation Band	:802.11b	Test Date	:2017-03-16
Fundamental Frequency	:2412 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS dBuV/m	Limit @3m dBuV/m	Safe Margin dB
			PK/QP/AV	Reading Level dB μ V				
4824.00	H	Average	24.31	4.93	29.24	54.00	-24.76	
4824.00	H	Peak	35.07	4.93	40.00	74.00	-34.00	

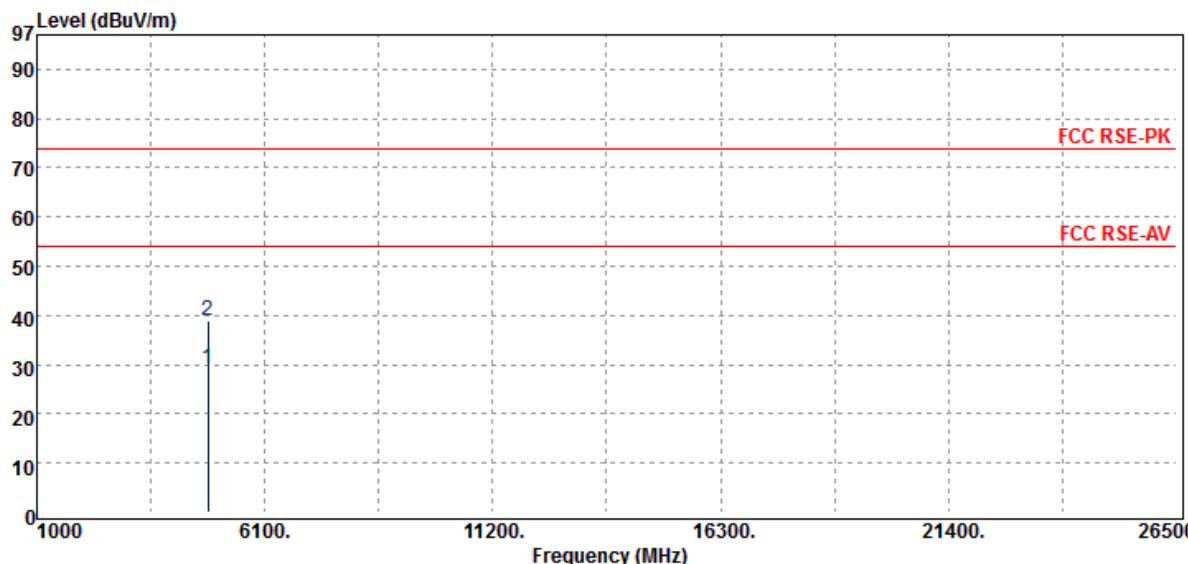
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Operation Band :802.11b
 Fundamental Frequency :2412 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2017-03-16
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS dBuV/m	Limit @3m dBuV/m	Safe Margin dB
			PK/QP/AV	Reading Level dB μ V				
4824.00	H	Average	24.23	4.93	29.16	54.00	-24.84	
4824.00	H	Peak	34.08	4.93	39.01	74.00	-34.99	

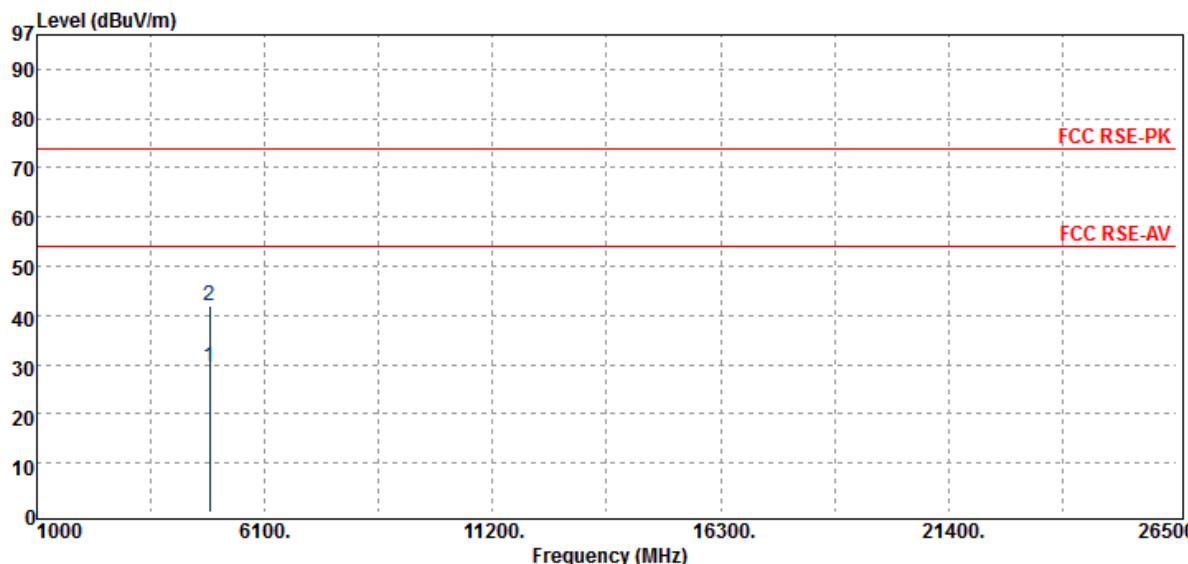
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Operation Band :802.11b
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2017-03-16
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS dBuV/m	Limit @3m dBuV/m	Safe Margin dB
			PK/QP/AV	Reading Level dB μ V				
4874.00	H	Average	24.25	24.25	5.13	29.38	54.00	-24.62
4874.00	H	Peak	36.96	36.96	5.13	42.09	74.00	-31.91

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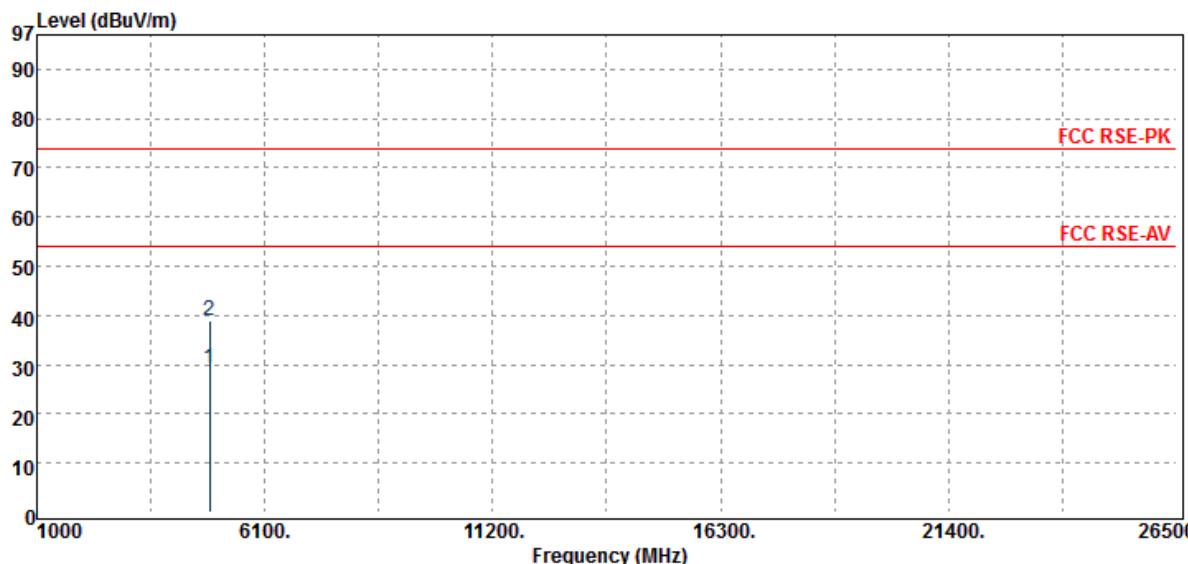
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Operation Band :802.11b
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
			PK/QP/AV	dB μ V				
4874.00	H	Average		24.19	5.13	29.32	54.00	-24.68
4874.00	H	Peak		33.76	5.13	38.89	74.00	-35.11

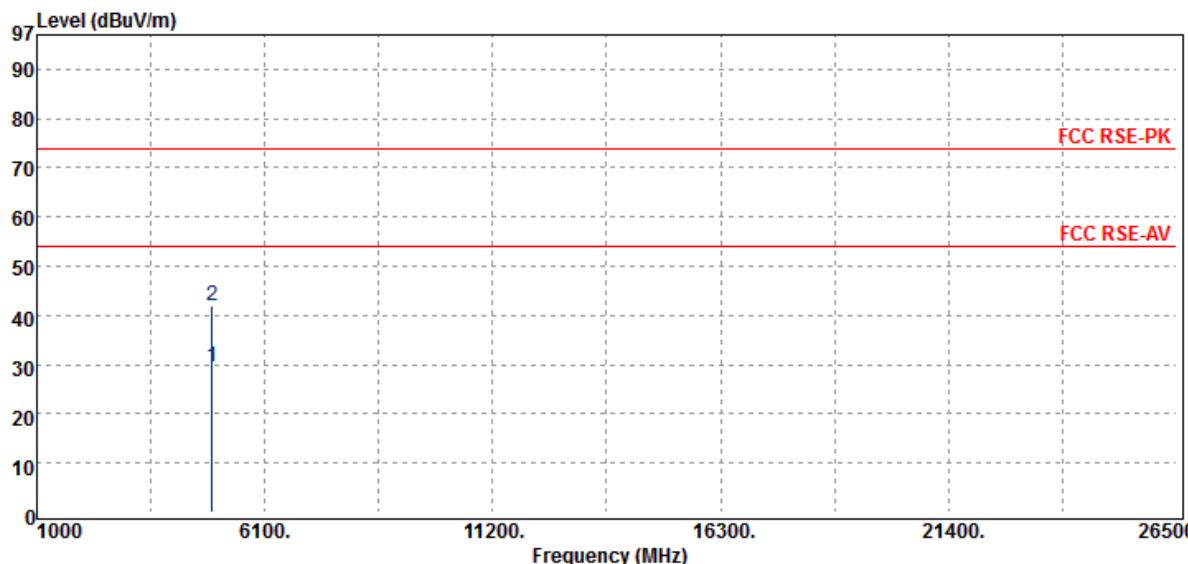
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Operation Band :802.11b
 Fundamental Frequency :2462 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-16
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
			PK/QP/AV	Reading Level dB μ V				
4924.00	H	Average		24.21	5.25	29.46	54.00	-24.54
4924.00	H	Peak		36.62	5.25	41.87	74.00	-32.13

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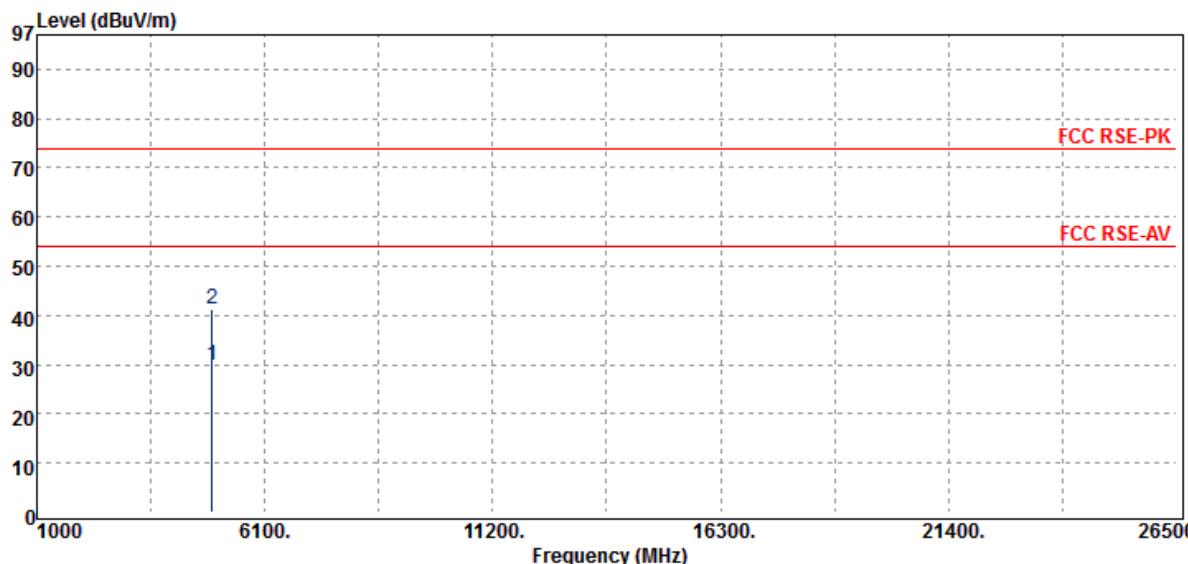
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Operation Band :802.11b
 Fundamental Frequency :2462 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-16
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
			PK/QP/AV	Reading Level dB μ V				
4924.00	H	Average		24.57	5.25	29.82	54.00	-24.18
4924.00	H	Peak		35.89	5.25	41.14	74.00	-32.86

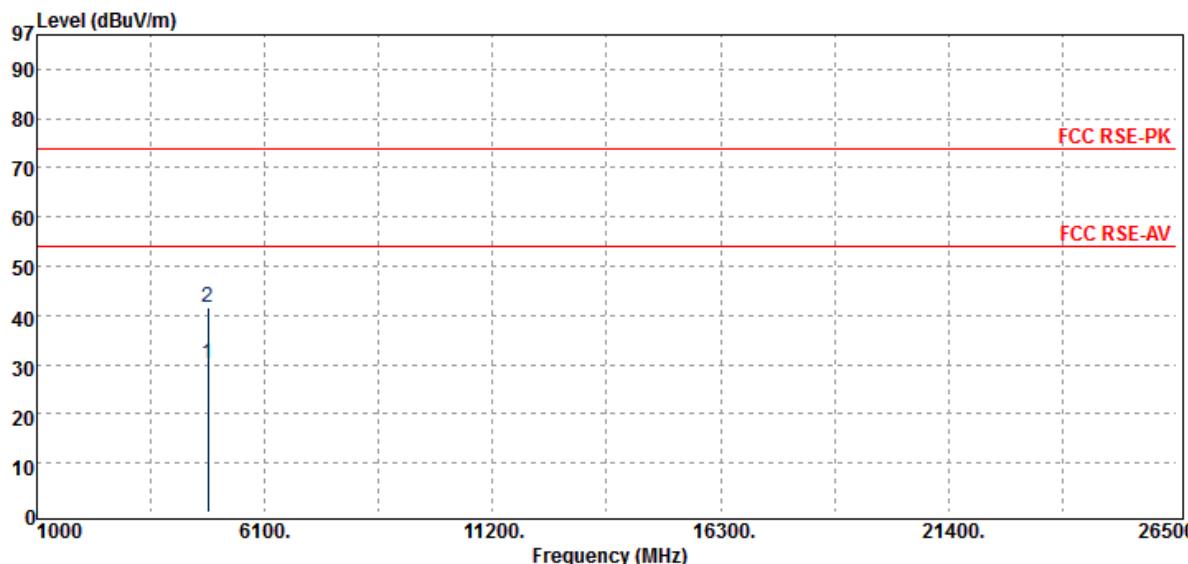
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Radiated Spurious Emission Measurement Result (802.11 g) *Dipole Antenna

Operation Band :802.11g Test Date :2017-03-15
 Fundamental Frequency :2412 MHz Temp./Humi. :22 deg_C / 61 RH
 Operation Mode :Tx CH LOW Engineer :Tin
 EUT Pol. :H Plane Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Safe
						dB μ V/m	dB μ V/m
4824.00	H	Average	25.25	4.93	30.18	54.00	-23.82
4824.00	H	Peak	36.60	4.93	41.53	74.00	-32.47

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

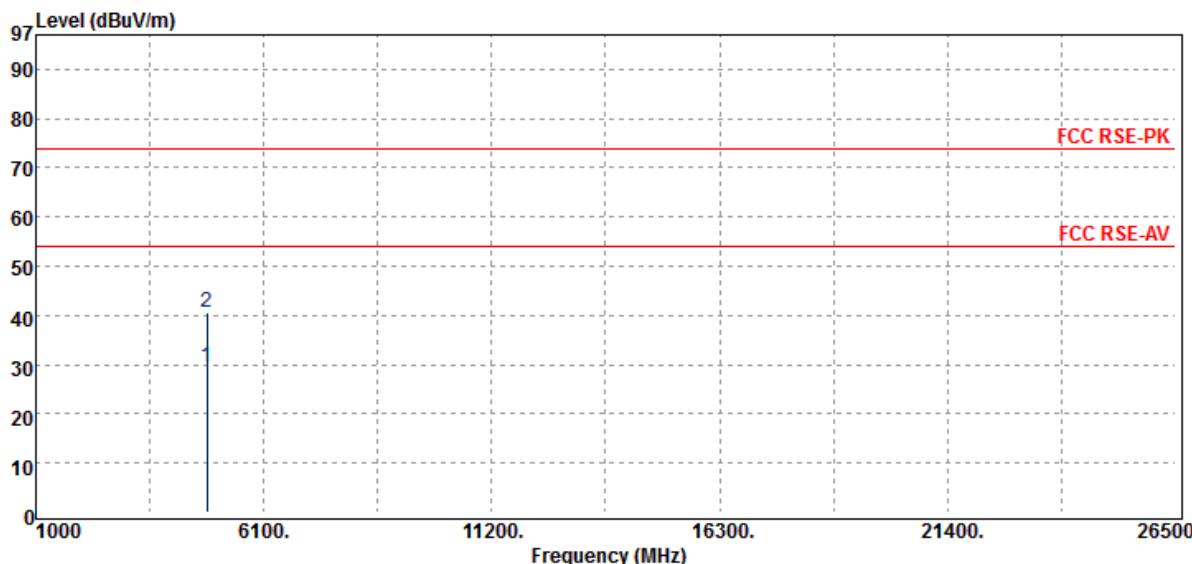
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Operation Band :802.11g
 Fundamental Frequency :2412 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS dB ^μ V	Limit @3m dB ^μ V/m	Safe Margin dB
			PK/QP/AV	Reading Level dB ^μ V				
4824.00	H	Average	24.62	4.93	29.55	54.00	-24.45	
4824.00	H	Peak	35.71	4.93	40.64	74.00	-33.36	

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

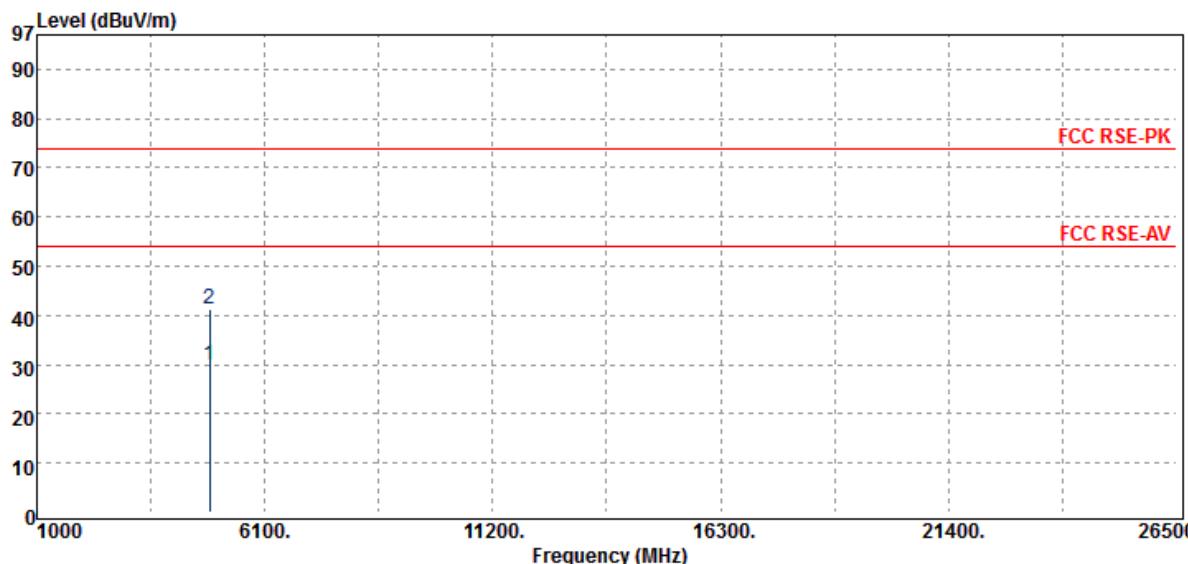
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Operation Band :802.11g
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2017-03-16
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS dBuV/m	Limit @3m dBuV/m	Safe Margin dB
			PK/QP/AV	Reading Level dB μ V				
4874.00	H	Average		24.89	5.13	30.02	54.00	-23.98
4874.00	H	Peak		35.99	5.13	41.12	74.00	-32.88

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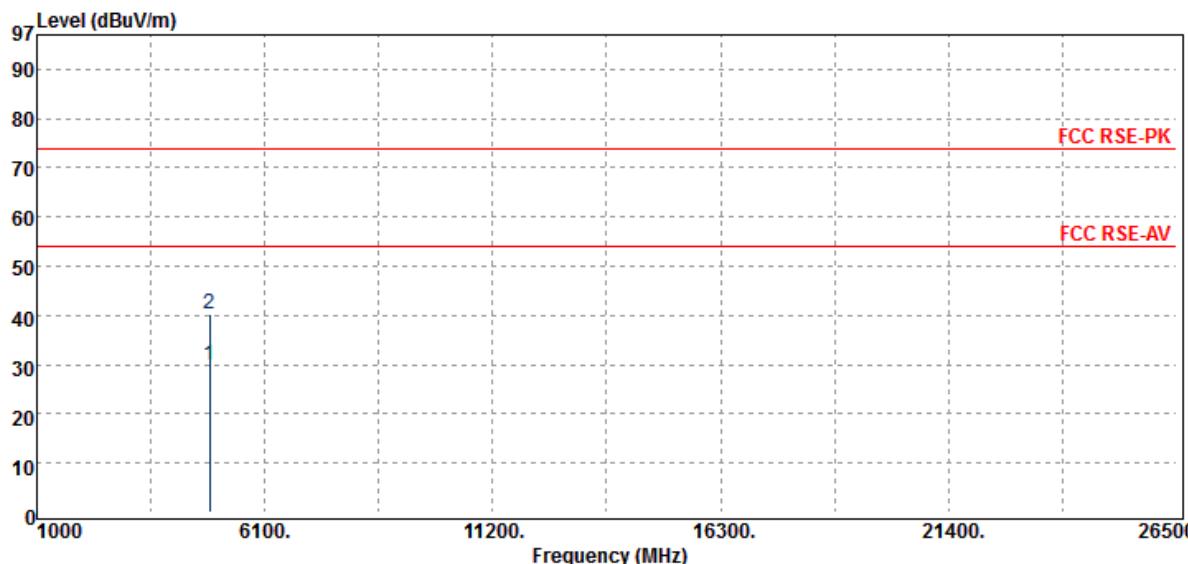
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Operation Band :802.11g
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V	Limit @3m dB μ V/m	Safe Margin dB
			PK/QP/AV	dB μ V				
4874.00	H	Average		24.71	5.13	29.84	54.00	-24.16
4874.00	H	Peak		35.05	5.13	40.18	74.00	-33.82

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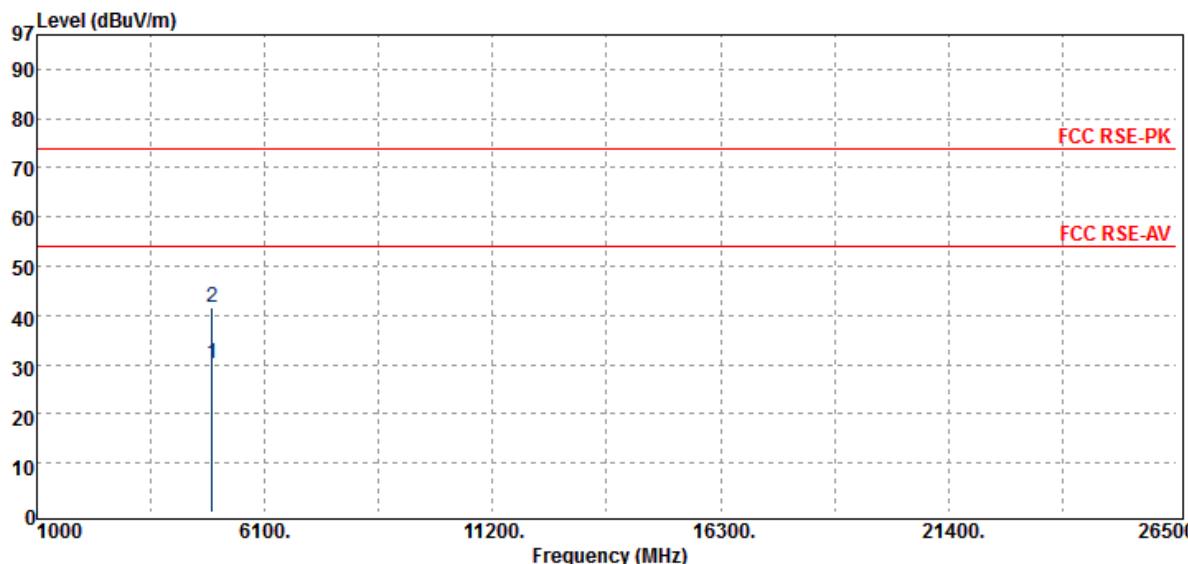
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Operation Band :802.11g
 Fundamental Frequency :2462 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-16
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor dB	Actual FS dB μ V	Limit @3m dB μ V/m	Safe Margin dB
			PK/QP/AV	Reading Level dB μ V				
4924.00	H	Average		24.93	5.25	30.18	54.00	-23.82
4924.00	H	Peak		36.47	5.25	41.72	74.00	-32.28

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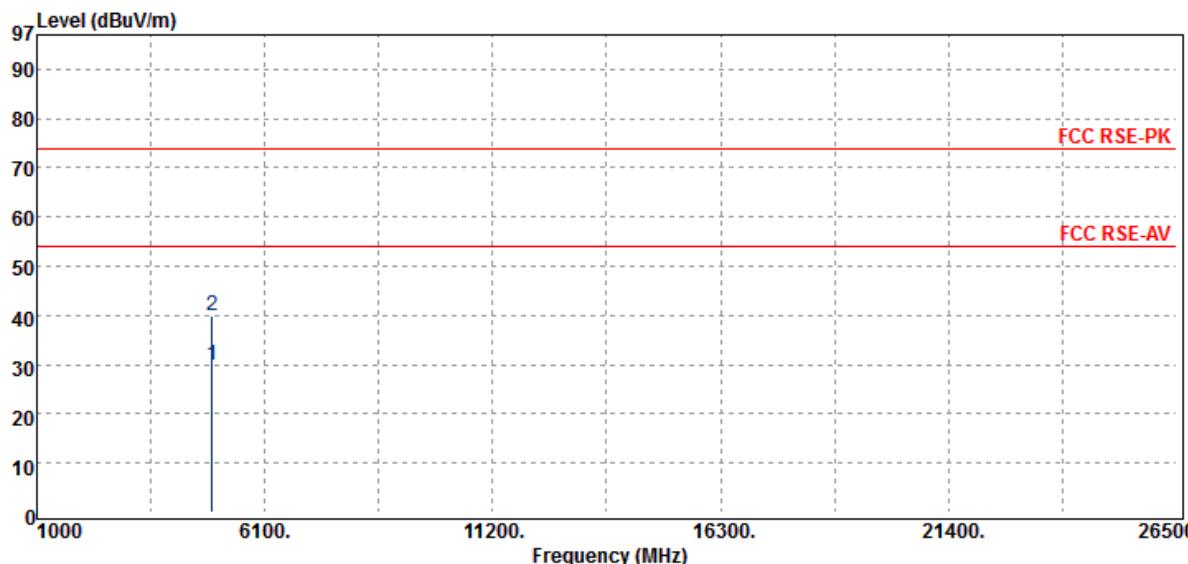
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Operation Band :802.11g
 Fundamental Frequency :2462 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
			PK/QP/AV	dB μ V				
4924.00	H	Average	24.66	24.66	5.25	29.91	54.00	-24.09
4924.00	H	Peak	34.84	34.84	5.25	40.09	74.00	-33.91

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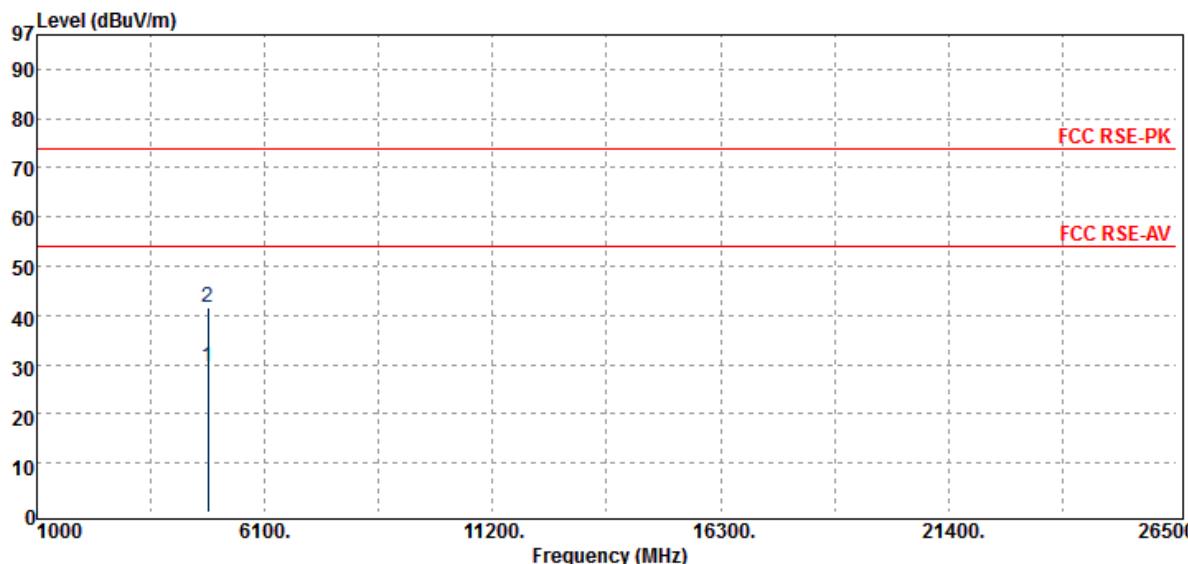
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*PCB Antenna

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

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
			PK/QP/AV	dB μ V				
4824.00	H	Average	24.56	4.93	29.49	54.00	-24.51	
4824.00	H	Peak	36.63	4.93	41.56	74.00	-32.44	

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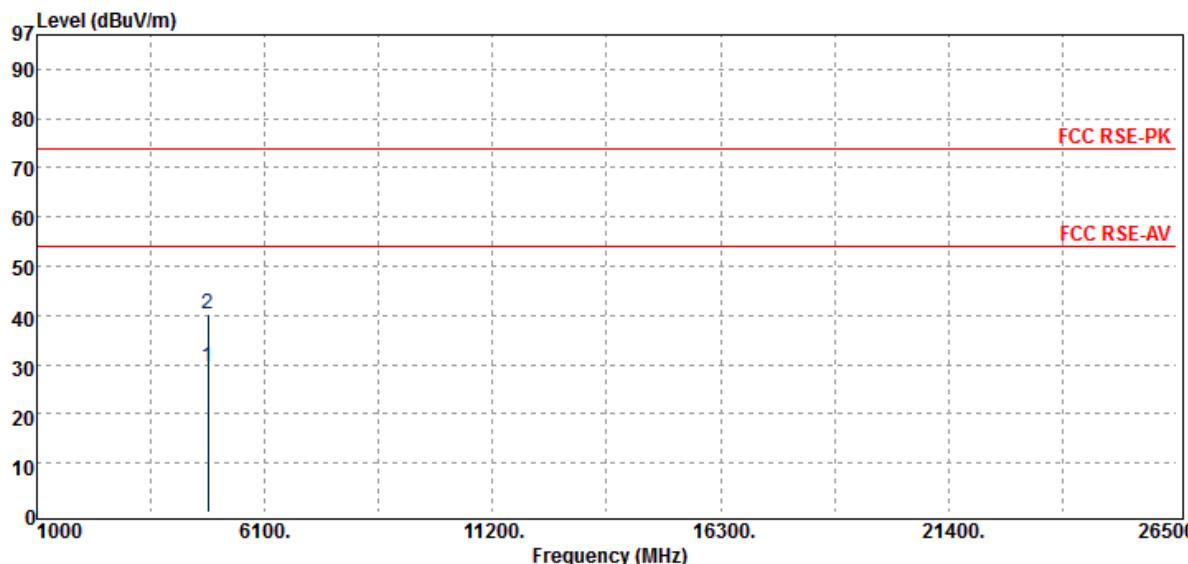
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Operation Band :802.11g
 Fundamental Frequency :2412 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS dBuV/m	Limit @3m dBuV/m	Safe Margin dB
			PK/QP/AV	Reading Level dB μ V				
4824.00	H	Average		24.56	4.93	29.49	54.00	-24.51
4824.00	H	Peak		35.33	4.93	40.26	74.00	-33.74

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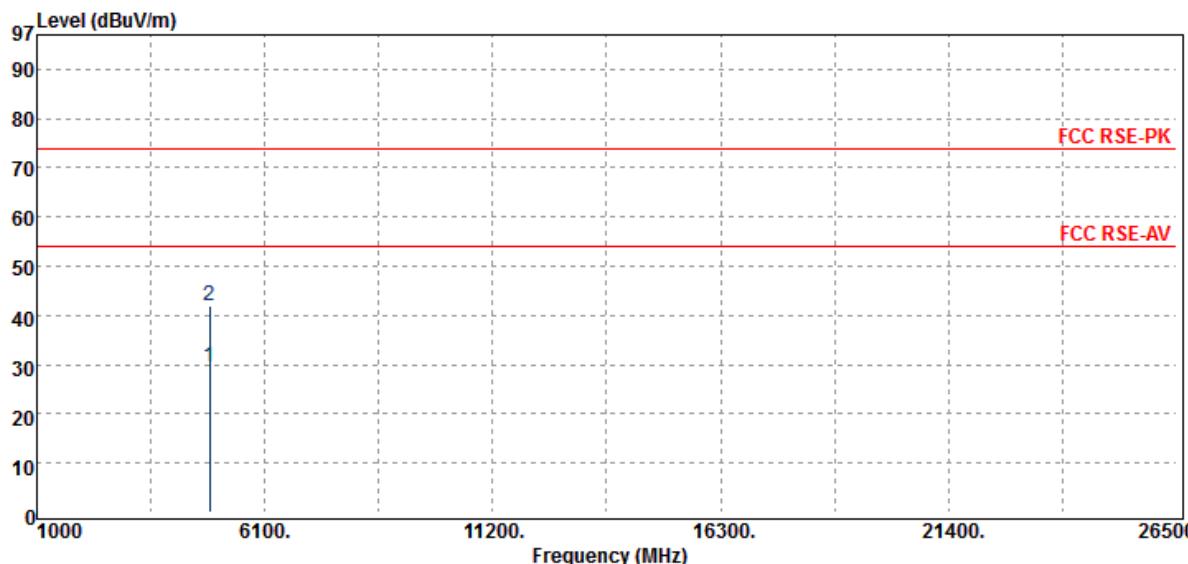
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Operation Band :802.11g
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2017-03-16
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
			PK/QP/AV	dB μ V				
4874.00	H	Average	24.33		5.13	29.46	54.00	-24.54
4874.00	H	Peak	36.78		5.13	41.91	74.00	-32.09

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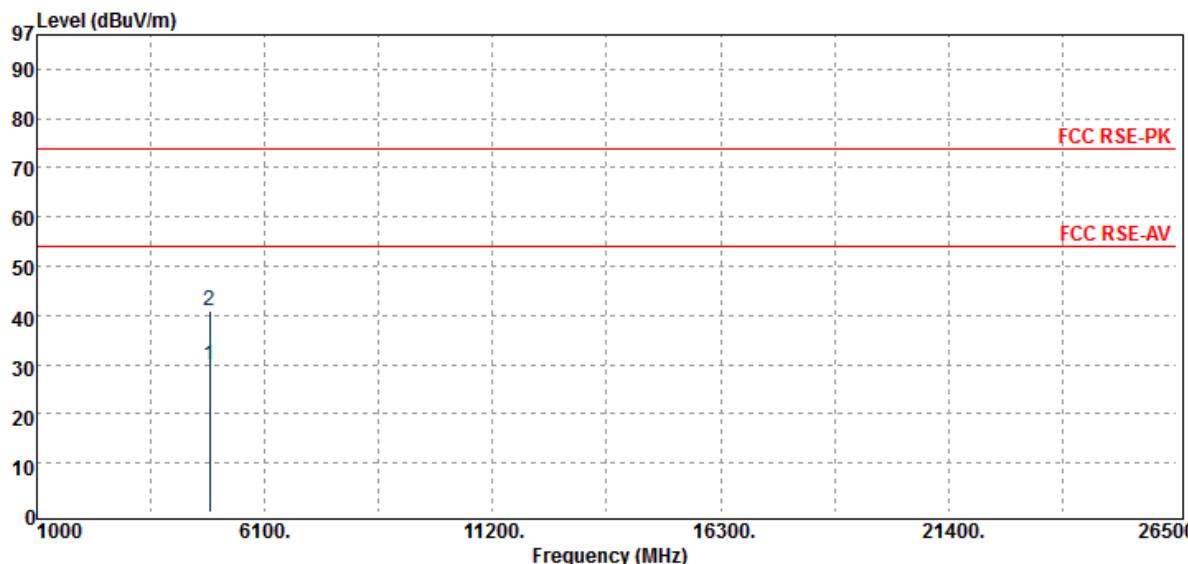
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Operation Band :802.11g
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS dBuV/m	Limit @3m dBuV/m	Safe Margin dB
			PK/QP/AV	Reading Level dB μ V				
4874.00	H	Average	24.61	24.61	5.13	29.74	54.00	-24.26
4874.00	H	Peak	35.70	35.70	5.13	40.83	74.00	-33.17

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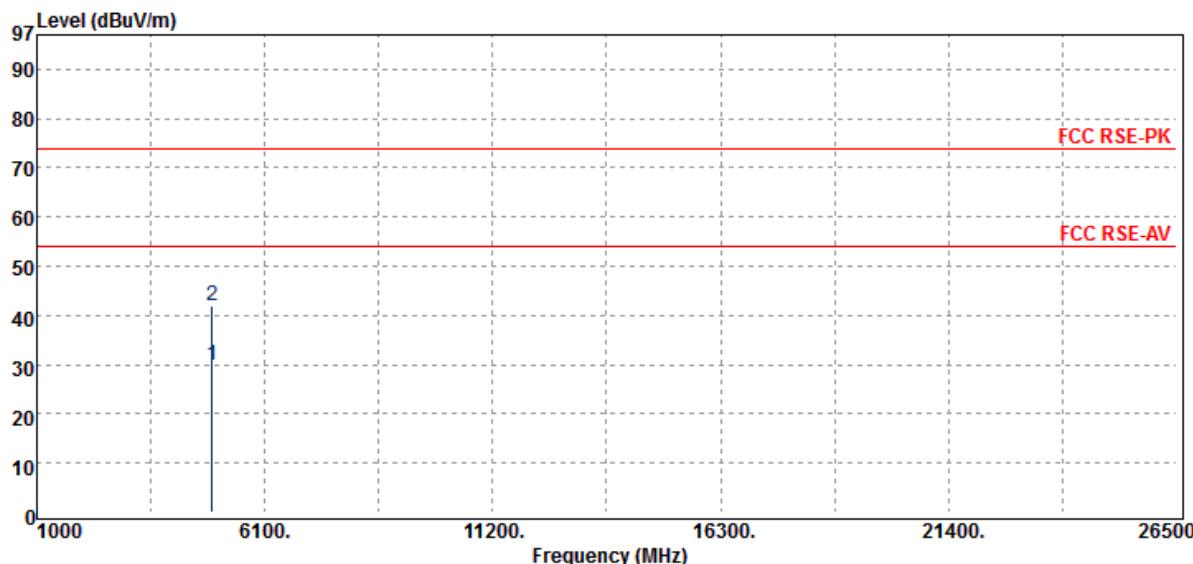
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Operation Band :802.11g
 Fundamental Frequency :2462 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-16
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS dBuV/m	Limit @3m dBuV/m	Safe Margin dB
			PK/QP/AV	Reading Level dB μ V				
4924.00	H	Average	24.54	5.25	29.79	54.00	-24.21	
4924.00	H	Peak	36.56	5.25	41.81	74.00	-32.19	

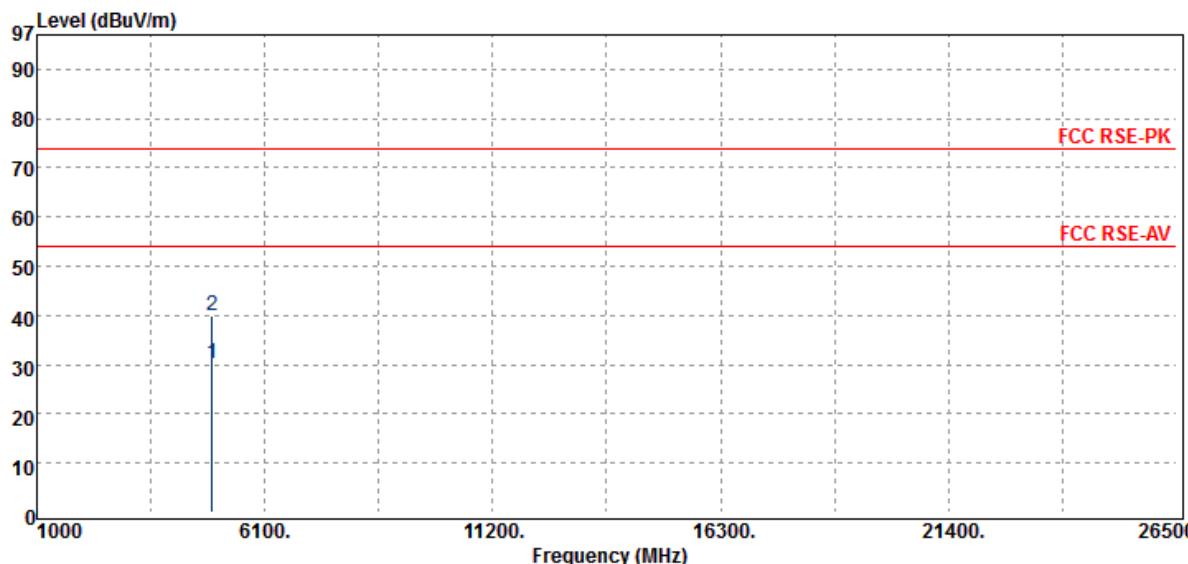
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Operation Band :802.11g
 Fundamental Frequency :2462 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
			PK/QP/AV	dB μ V				
4924.00	H	Average	24.88	24.88	5.25	30.13	54.00	-23.87
4924.00	H	Peak	34.65	34.65	5.25	39.90	74.00	-34.10

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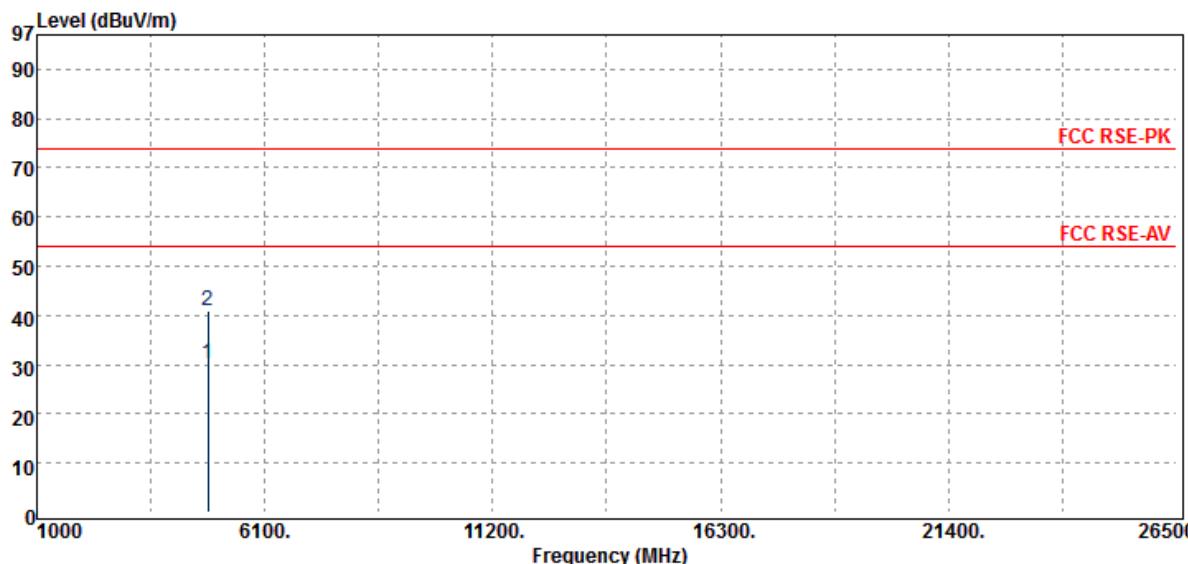
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Radiated Spurious Emission Measurement Result (802.11_HT20) *Dipole Antenna

Operation Band :802.11n20 Test Date :2017-03-15
 Fundamental Frequency :2412 MHz Temp./Humi. :22 deg_C / 61 RH
 Operation Mode :Tx CH LOW Engineer :Tin
 EUT Pol. :H Plane Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS dBuV/m	Limit @3m dBuV/m	Safe Margin dB
			PK/QP/AV	Reading Level dB μ V				
4824.00	H	Average		25.35	4.93	30.28	54.00	-23.72
4824.00	H	Peak		36.08	4.93	41.01	74.00	-32.99

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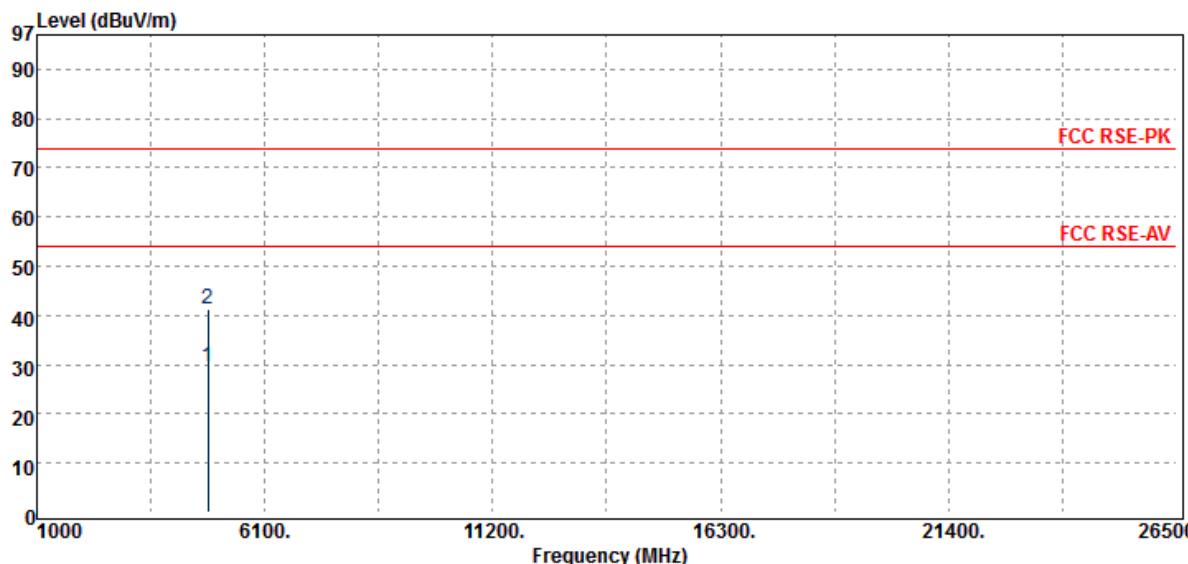
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Operation Band :802.11n20
 Fundamental Frequency :2412 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS dB	Limit @3m dBuV/m	Safe Margin dB
			PK/QP/AV	Reading Level dB μ V				
4824.00	H	Average		24.74	4.93	29.67	54.00	-24.33
4824.00	H	Peak		36.34	4.93	41.27	74.00	-32.73

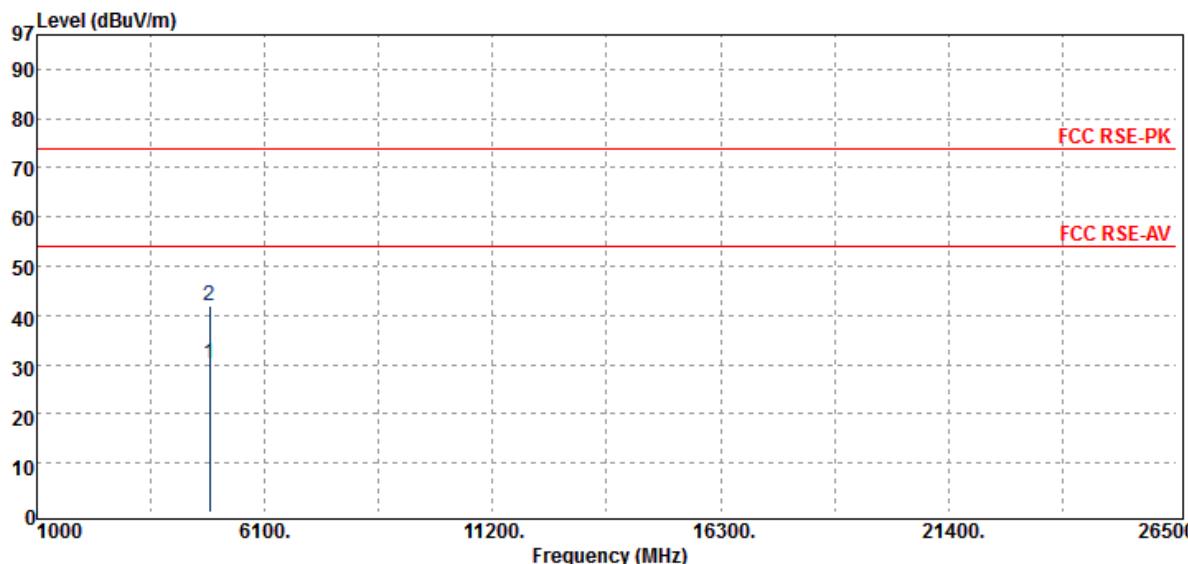
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Operation Band :802.11n20
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor dB	Actual FS dB μ V	Limit @3m dB μ V/m	Safe Margin dB
			PK/QP/AV	Reading Level dB μ V				
4874.00	H	Average		25.05	5.13	30.18	54.00	-23.82
4874.00	H	Peak		36.90	5.13	42.03	74.00	-31.97

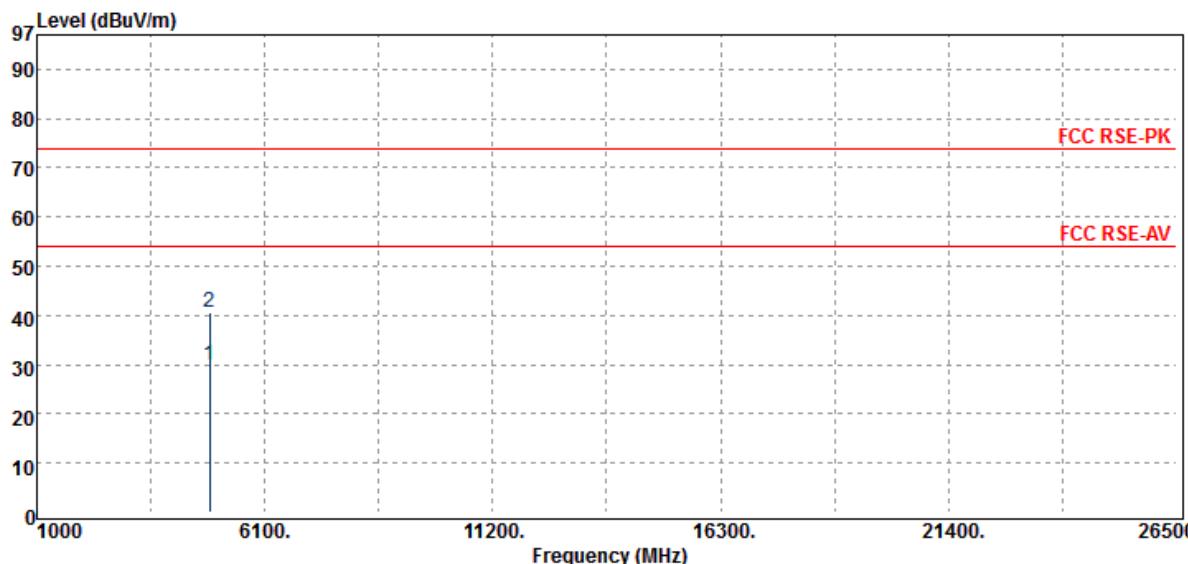
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Operation Band :802.11n20
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Safe
						dB μ V/m	dB μ V/m
4874.00	H	Average	24.77	5.13	29.90	54.00	-24.10
4874.00	H	Peak	35.43	5.13	40.56	74.00	-33.44

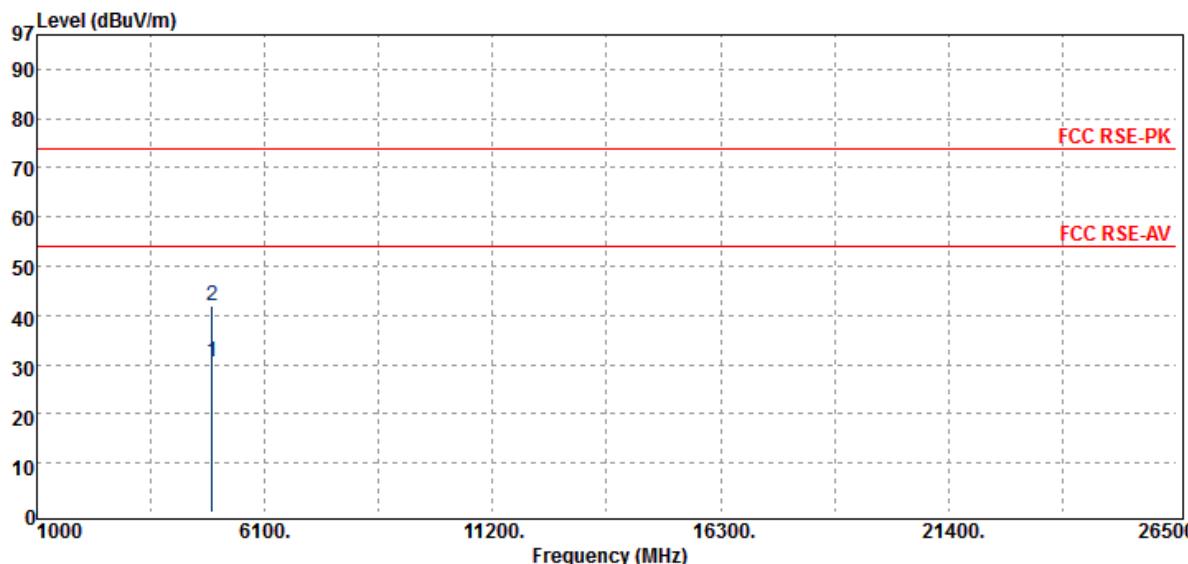
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Operation Band :802.11n20
 Fundamental Frequency :2462 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V	Limit @3m dB μ V/m	Safe Margin dB
			PK/QP/AV	dB μ V				
4924.00	H	Average		25.30	5.25	30.55	54.00	-23.45
4924.00	H	Peak		36.63	5.25	41.88	74.00	-32.12

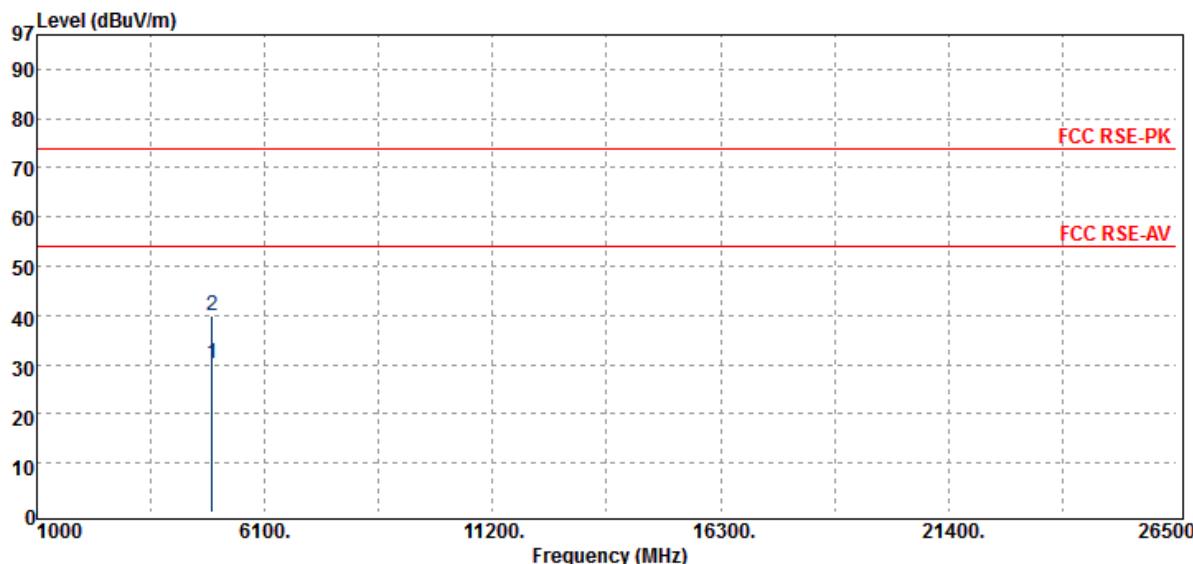
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Operation Band :802.11n20
 Fundamental Frequency :2462 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V	Limit @3m dB μ V/m	Safe Margin dB
			PK/QP/AV	dB μ V				
4924.00	H	Average		24.91	5.25	30.16	54.00	-23.84
4924.00	H	Peak		34.65	5.25	39.90	74.00	-34.10

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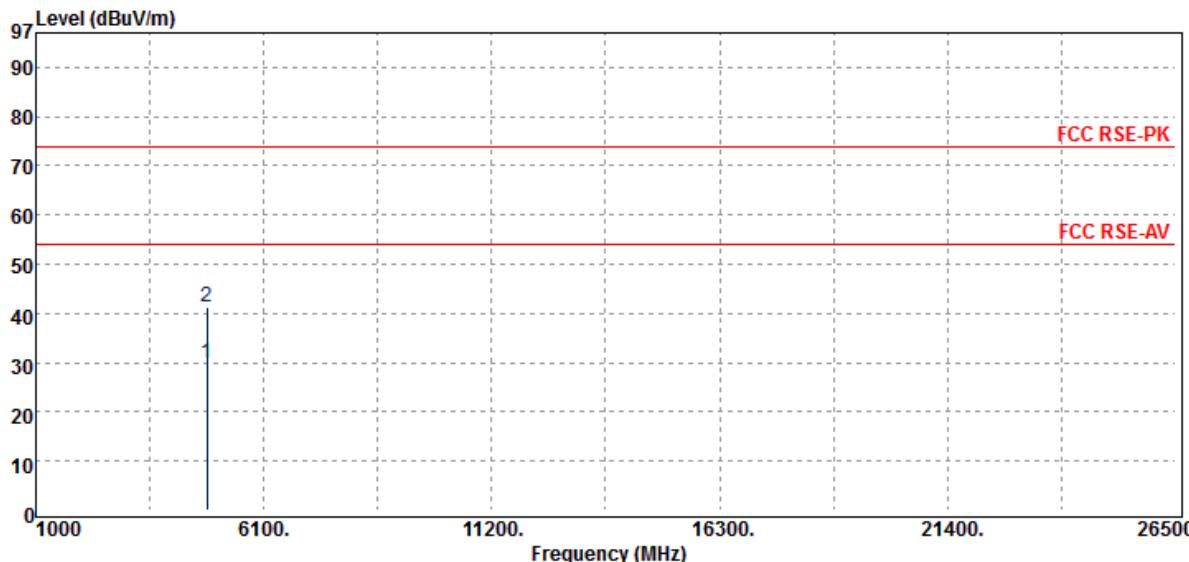
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*PCB Antenna

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

Test Date :2017-03-16
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS dBuV/m	Limit @3m dBuV/m	Safe Margin dB
			PK/QP/AV	Reading Level dB μ V				
4824.00	H	Average		24.87	4.93	29.80	54.00	-24.20
4824.00	H	Peak		36.42	4.93	41.35	74.00	-32.65

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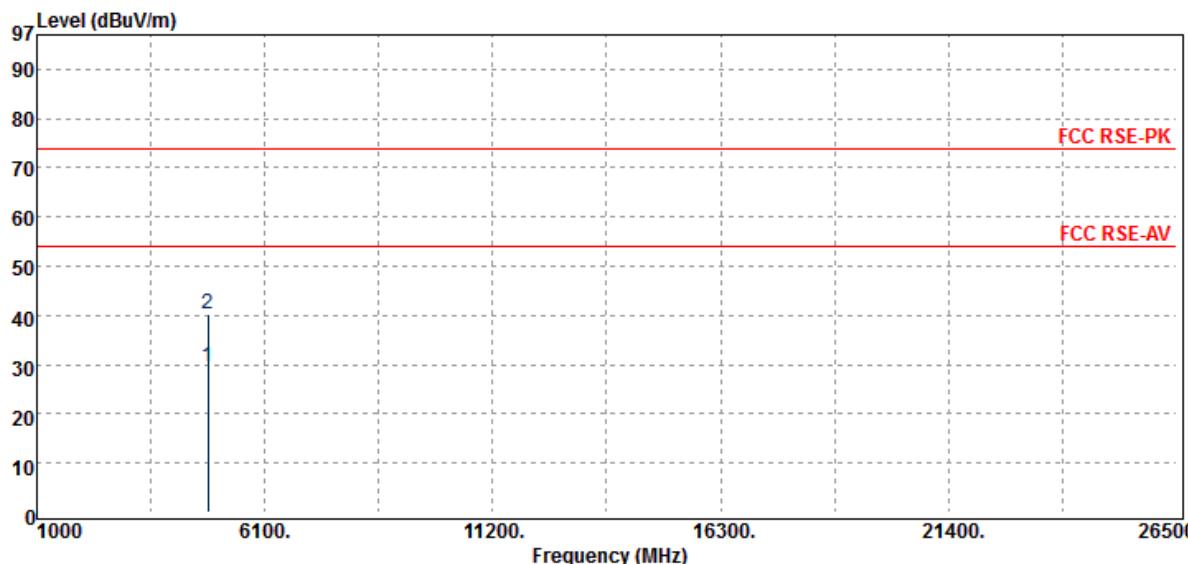
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Operation Band :802.11n20
 Fundamental Frequency :2412 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2017-03-16
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS dBuV/m	Limit @3m dBuV/m	Safe Margin dB
			PK/QP/AV	Reading Level dB μ V				
4824.00	H	Average	24.73	24.73	4.93	29.66	54.00	-24.34
4824.00	H	Peak	35.45	35.45	4.93	40.38	74.00	-33.62

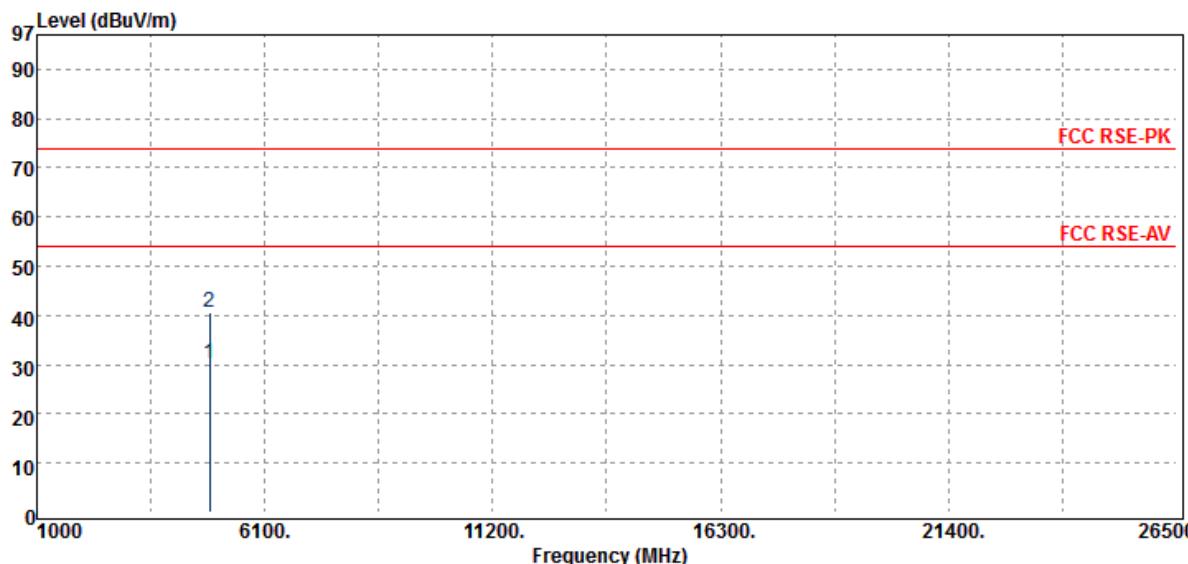
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Operation Band :802.11n20
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2017-03-16
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
			PK/QP/AV	dB μ V				
4874.00	H	Average		25.03	5.13	30.16	54.00	-23.84
4874.00	H	Peak		35.60	5.13	40.73	74.00	-33.27

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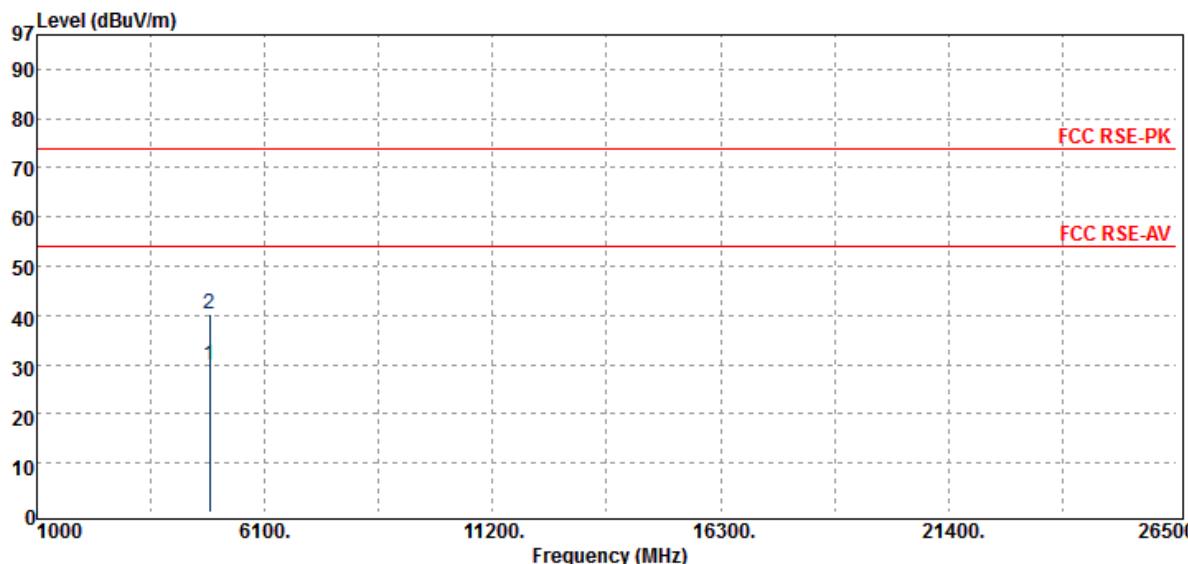
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Operation Band :802.11n20
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Safe
						dB μ V/m	dB μ V/m
4874.00	H	Average	24.88	5.13	30.01	54.00	-23.99
4874.00	H	Peak	35.22	5.13	40.35	74.00	-33.65

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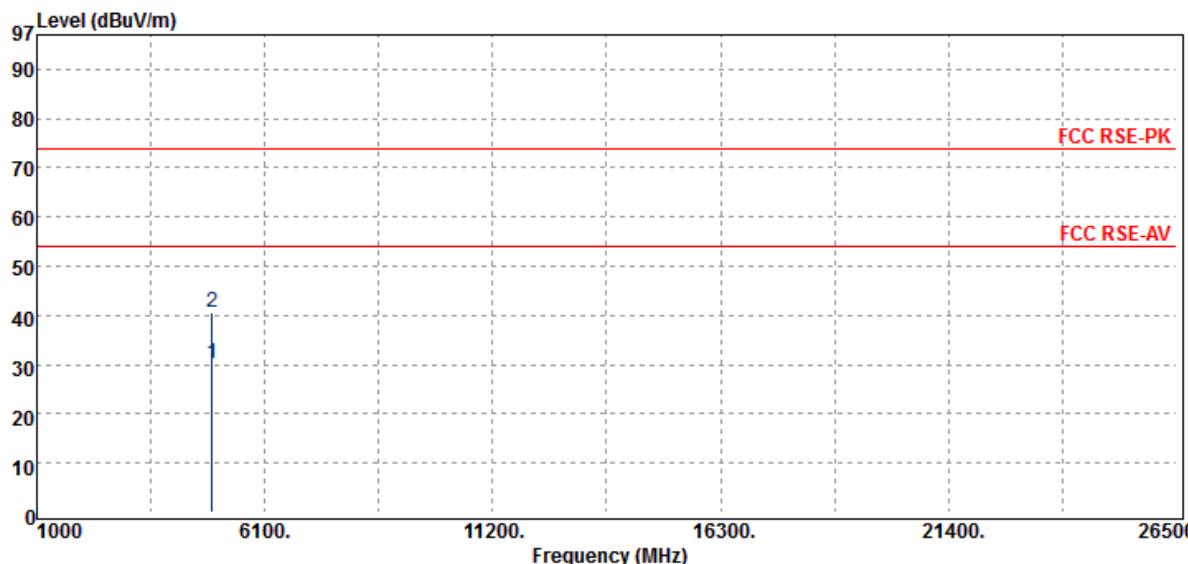
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Operation Band :802.11n20
 Fundamental Frequency :2462 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
			PK/QP/AV	dB μ V				
4924.00	H	Average	25.11	25.11	5.25	30.36	54.00	-23.64
4924.00	H	Peak	35.42	35.42	5.25	40.67	74.00	-33.33

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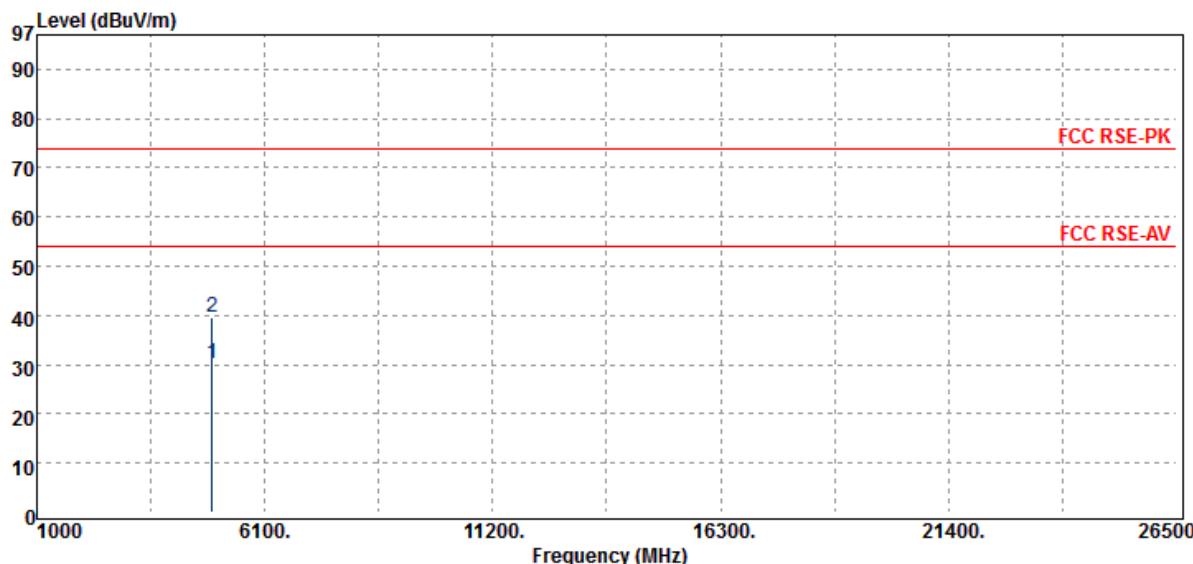
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Operation Band :802.11n20
 Fundamental Frequency :2462 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
			PK/QP/AV	dB μ V				
4924.00	H	Average	24.95	24.95	5.25	30.20	54.00	-23.80
4924.00	H	Peak	34.46	34.46	5.25	39.71	74.00	-34.29

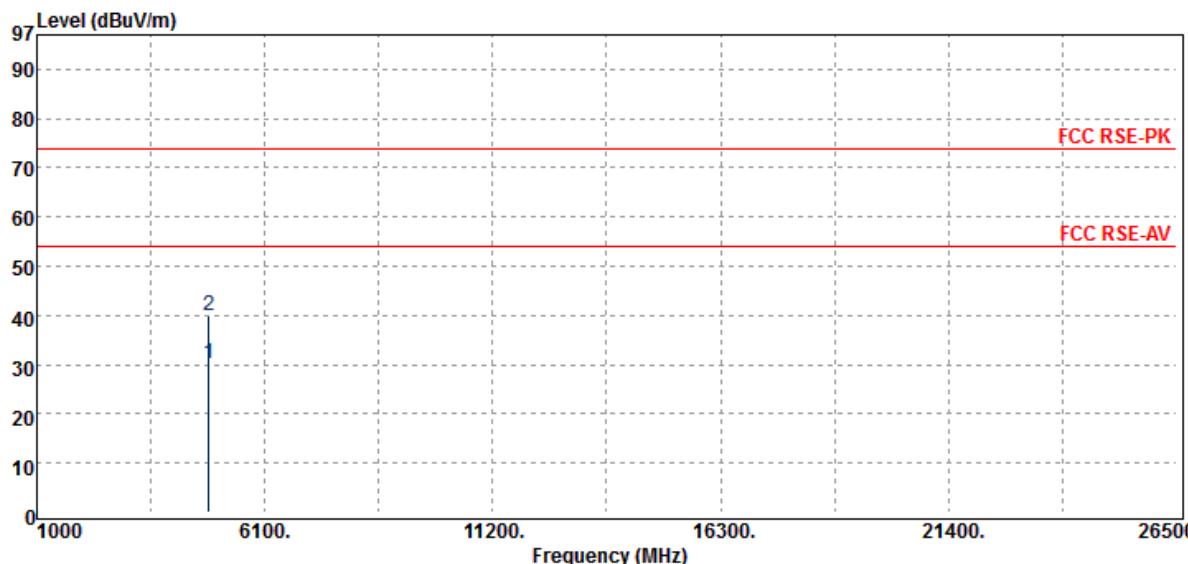
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Radiated Spurious Emission Measurement Result (802.11-HT40) *Dipole Antenna

Operation Band :802.11n40 Test Date :2017-03-15
 Fundamental Frequency :2422 MHz Temp./Humi. :22 deg_C / 61 RH
 Operation Mode :Tx CH LOW Engineer :Tin
 EUT Pol. :H Plane Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS dBuV/m	Limit @3m dBuV/m	Safe Margin dB
			PK/QP/AV	Reading Level dB μ V				
4844.00	H	Average	25.08	4.97	30.05	54.00	-23.95	
4844.00	H	Peak	34.88	4.97	39.85	74.00	-34.15	

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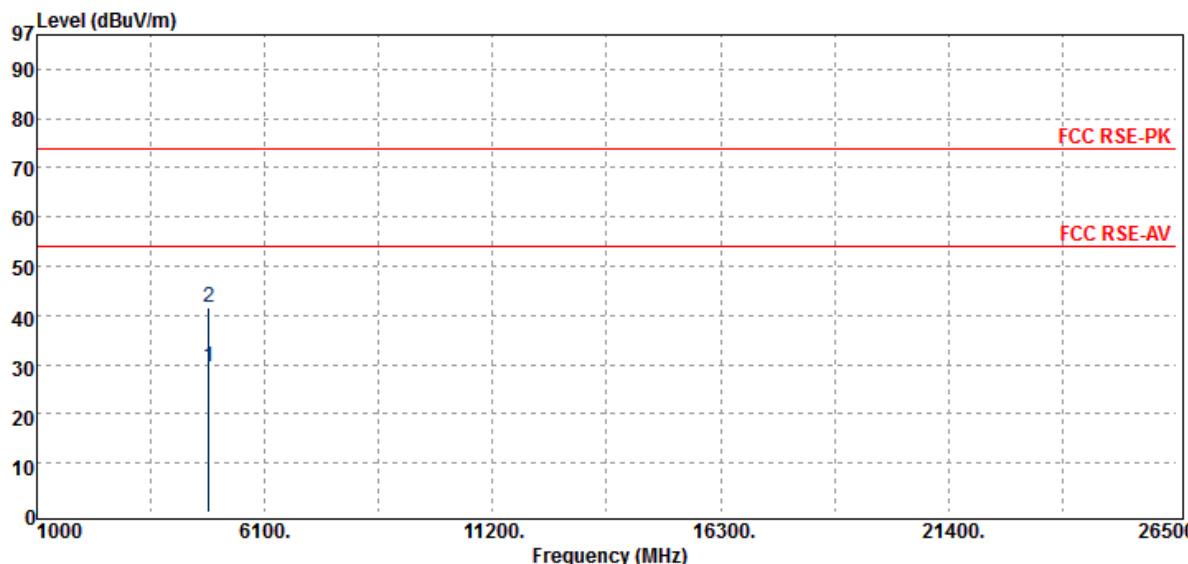
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Operation Band :802.11n40
 Fundamental Frequency :2422 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
			PK/QP/AV	dB μ V				
4844.00	H	Average		24.66	4.97	29.63	54.00	-24.37
4844.00	H	Peak		36.68	4.97	41.65	74.00	-32.35

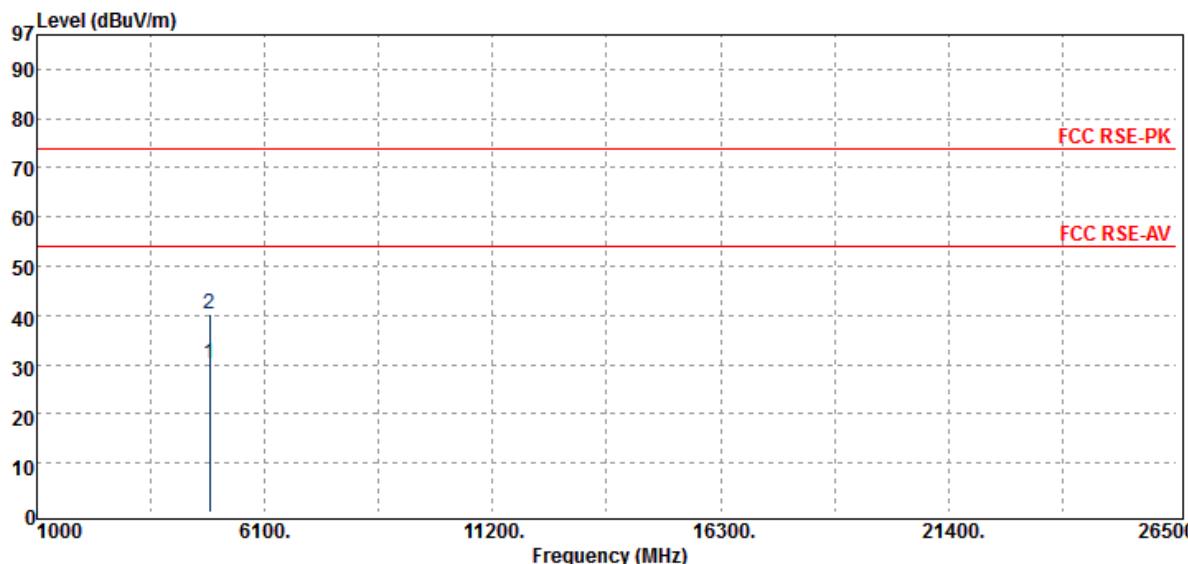
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Operation Band :802.11n40
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor dB	Actual FS dB μ V	Limit @3m dB μ V/m	Safe Margin dB
			PK/QP/AV	Reading Level dB μ V				
4874.00	H	Average		25.04	5.13	30.17	54.00	-23.83
4874.00	H	Peak		35.27	5.13	40.40	74.00	-33.60

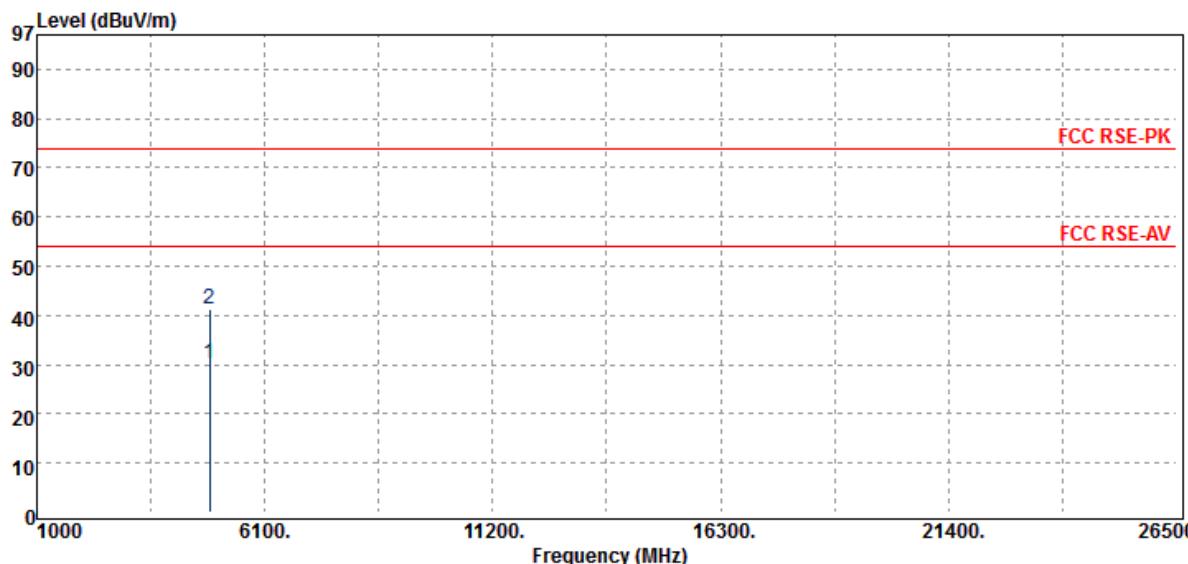
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Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor dB	Actual FS dB μ V	Limit @3m dB μ V/m	Safe Margin dB
			PK/QP/AV	Reading Level dB μ V				
4874.00	H	Average		24.92	5.13	30.05	54.00	-23.95
4874.00	H	Peak		36.06	5.13	41.19	74.00	-32.81

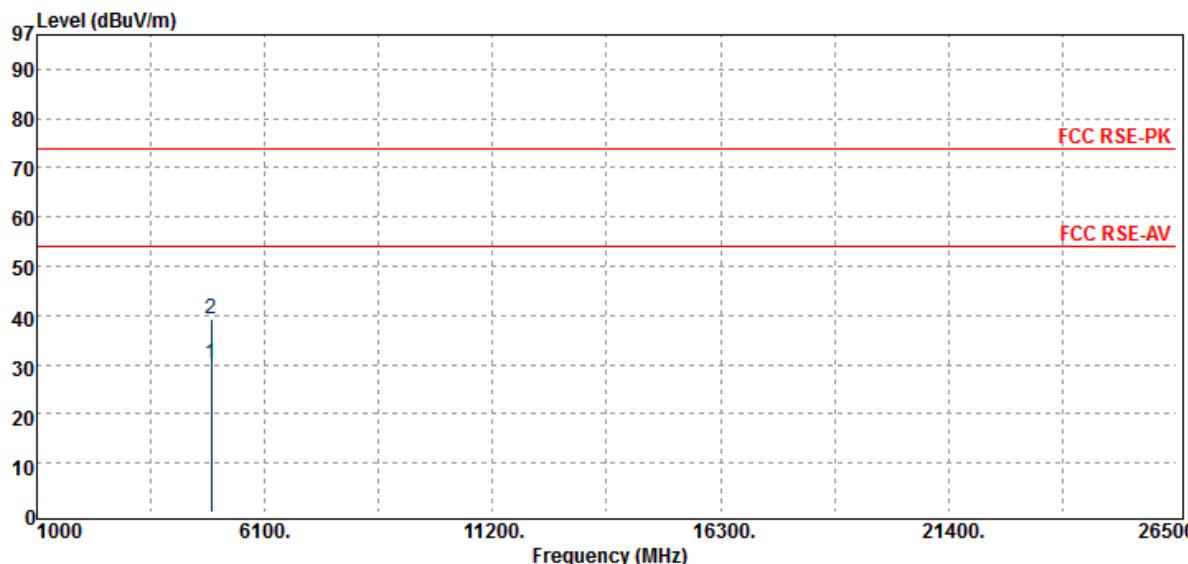
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 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
			PK/QP/AV	dB μ V				
4904.00	H	Average	24.99	24.99	5.24	30.23	54.00	-23.77
4904.00	H	Peak	34.02	34.02	5.24	39.26	74.00	-34.74

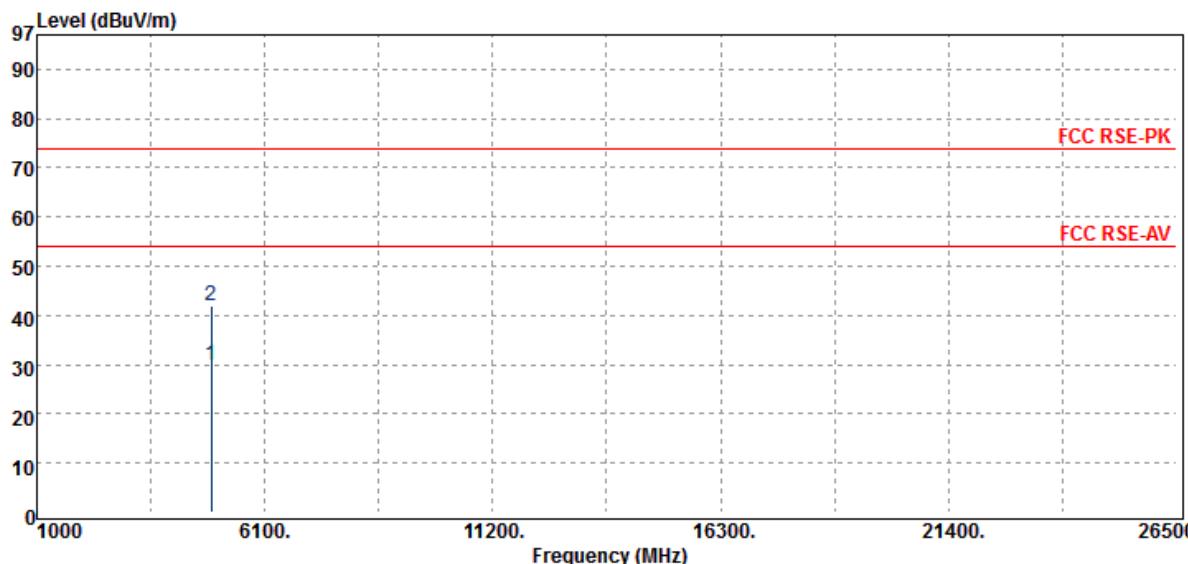
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Operation Band :802.11n40
 Fundamental Frequency :2452 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS dB	Limit @3m dBuV/m	Safe Margin dB
			PK/QP/AV	Reading Level dBμV				
4904.00	H	Average		24.74	5.24	29.98	54.00	-24.02
4904.00	H	Peak		36.67	5.24	41.91	74.00	-32.09

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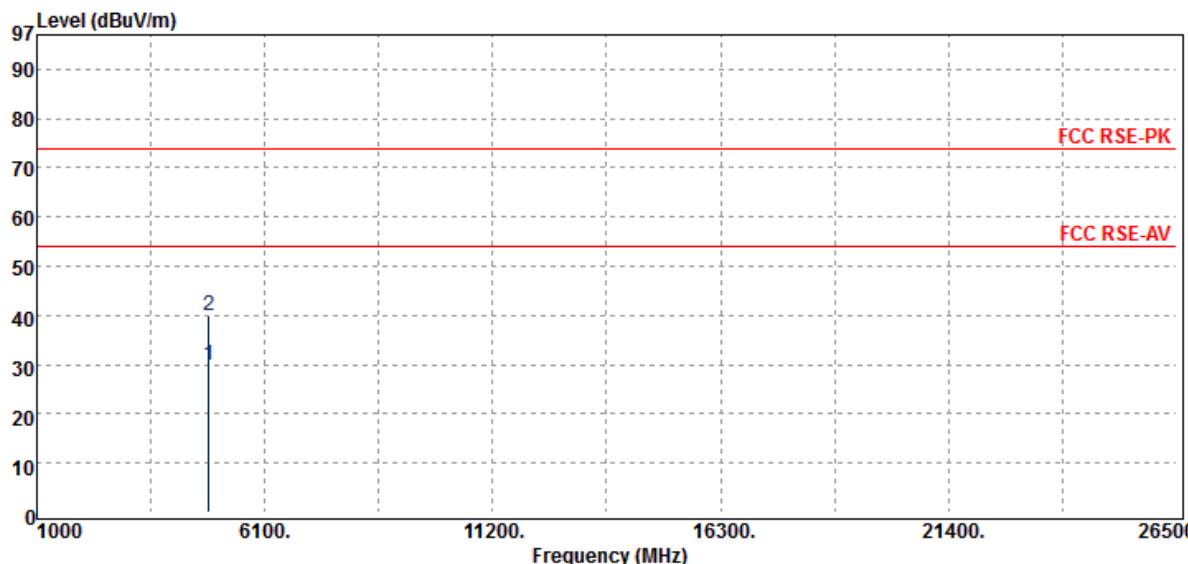
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*PCB Antenna

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

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS dBuV/m	Limit @3m dBuV/m	Safe Margin dB
			PK/QP/AV	Reading Level dB μ V				
4844.00	H	Average	24.97	4.97	29.94	54.00	-24.06	
4844.00	H	Peak	35.08	4.97	40.05	74.00	-33.95	

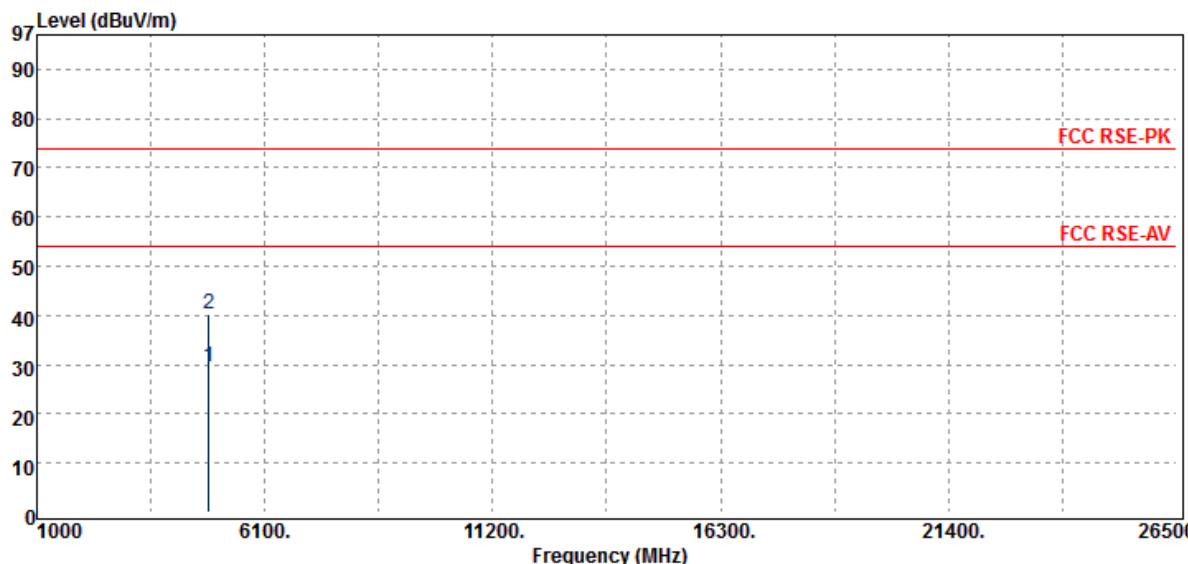
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Operation Band :802.11n40
 Fundamental Frequency :2422 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
			PK/QP/AV	dB μ V				
4844.00	H	Average	24.58	4.97	29.55	54.00	-24.45	
4844.00	H	Peak	35.39	4.97	40.36	74.00	-33.64	

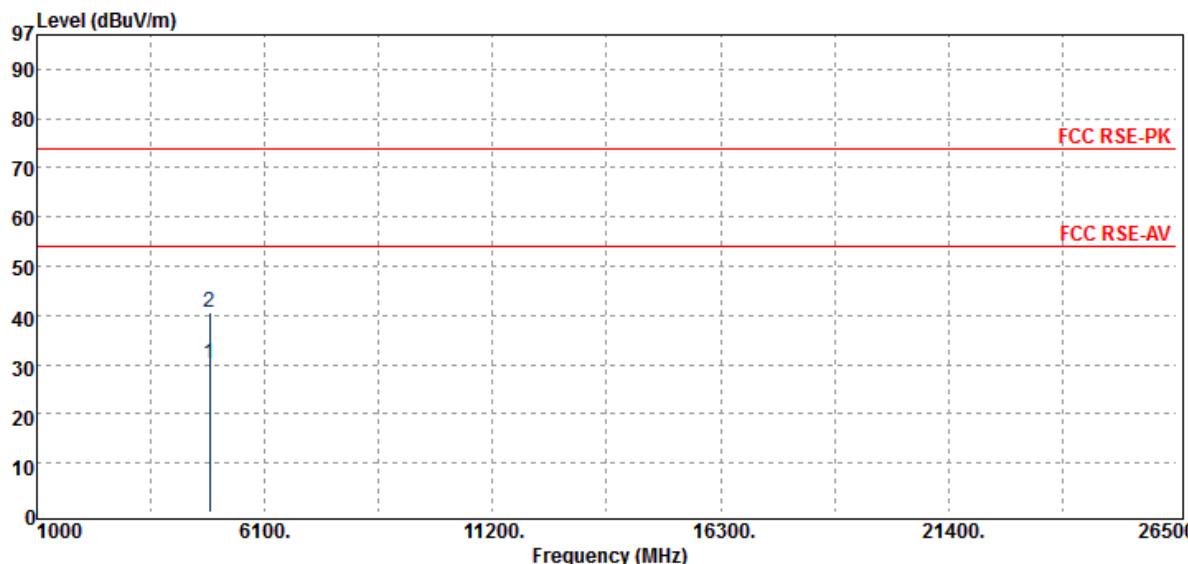
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Operation Band :802.11n40
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
			PK/QP/AV	dB μ V				
4874.00	H	Average	25.22	5.13	30.35	54.00	-23.65	
4874.00	H	Peak	35.63	5.13	40.76	74.00	-33.24	

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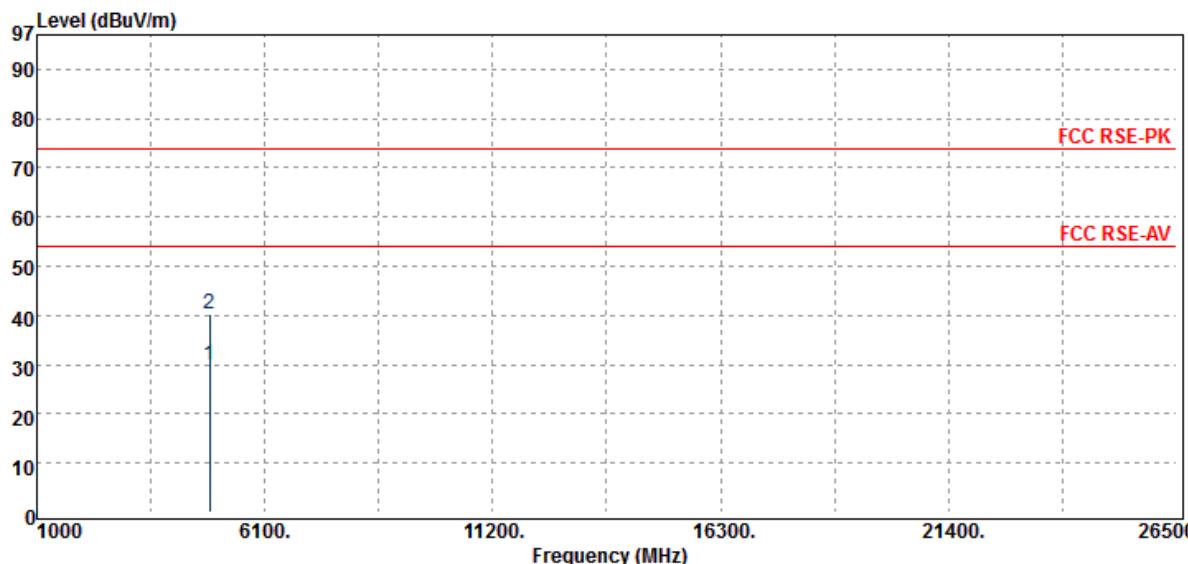
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Operation Band :802.11n40
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Safe
						dB μ V/m	dB μ V/m
4874.00	H	Average	24.69	5.13	29.82	54.00	-24.18
4874.00	H	Peak	35.31	5.13	40.44	74.00	-33.56

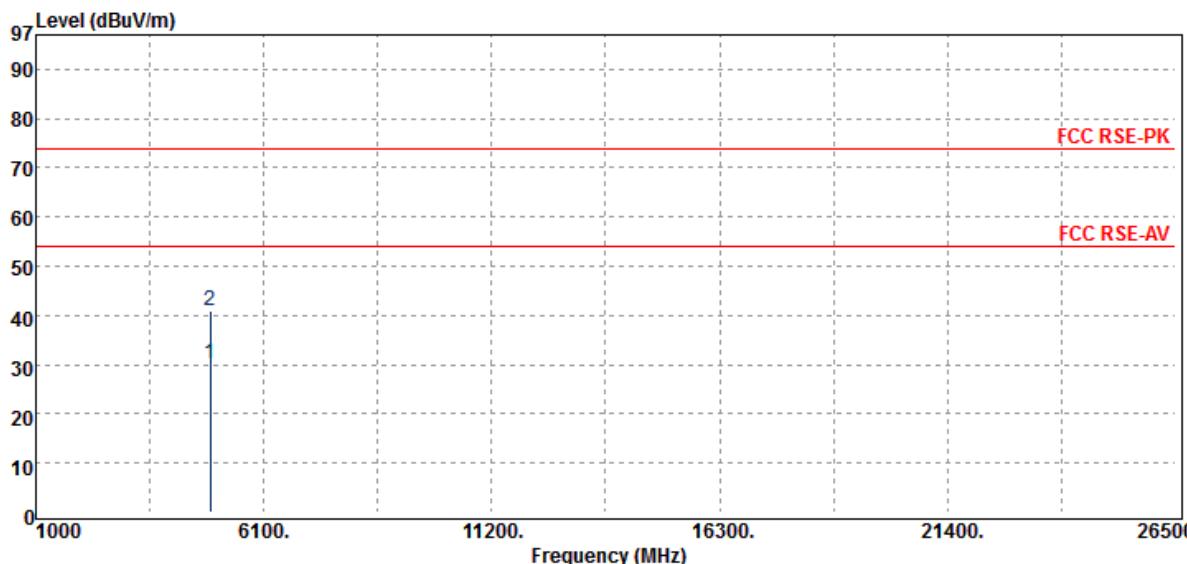
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Operation Band :802.11n40
 Fundamental Frequency :2452 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
			PK/QP/AV	dB μ V				
4904.00	H	Average	25.03		5.24	30.27	54.00	-23.73
4904.00	H	Peak	35.71		5.24	40.95	74.00	-33.05

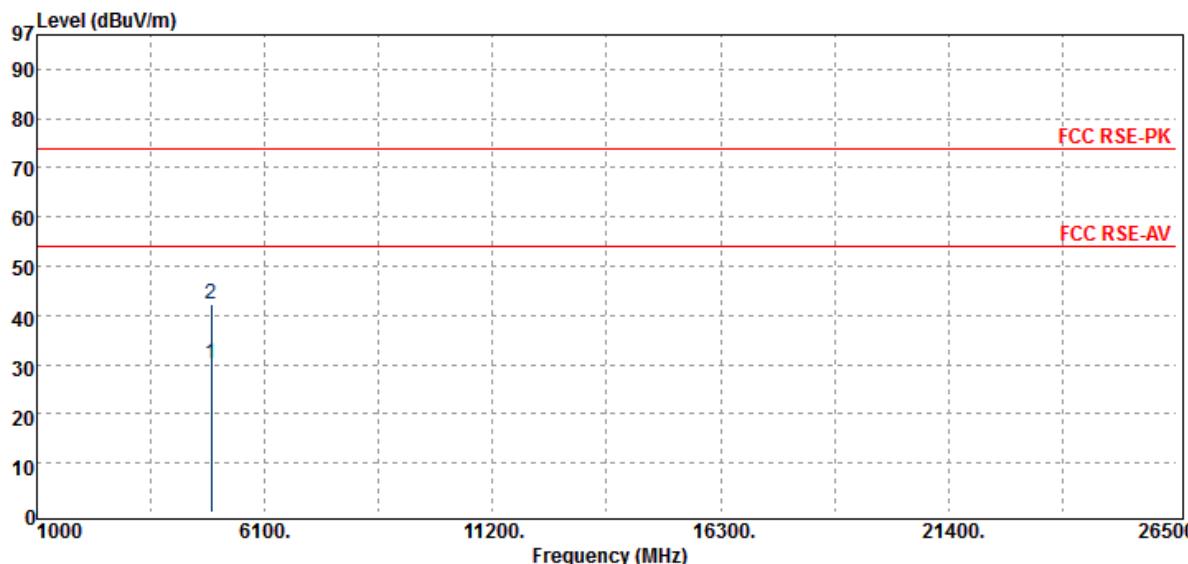
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 EUT Pol. :H Plane

Test Date :2017-03-15
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Safe Margin
			PK/QP/AV	Reading Level dBμV				
4904.00	H	Average	25.10	5.24	30.34	54.00	-23.66	
4904.00	H	Peak	37.04	5.24	42.28	74.00	-31.72	

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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.

Note:

Antenna Gain:	4.51 dBi
Aux1 Antenna Gain:	3.77 dBi
Aux2 Antenna Gain:	0.00 dBi
Aux3 Antenna Gain:	0.00 dBi
Number Antenna:	2 pcs
Limit:	8 dBm

The antenna gain is grater than 6dBi in MIMO mode the limit reduce as below:

Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

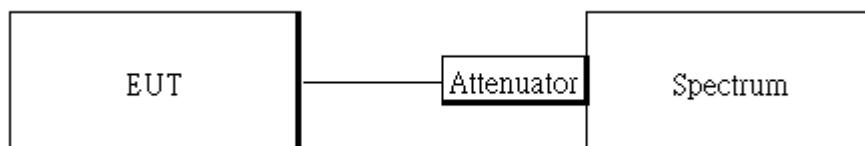
Effective Legacy Gain (dBi) = 4.51+3.01=7.52dBi

Limit: 8dBm - (7.52 - 6dBi)=6.48dBm

12.2 Measurement Equipment Used

SGS Conducted Room					
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	02/26/2017	02/25/2018
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018
Coaxial Cable	HU-BER+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	05/17/2016	05/16/2017

12.3 Test Set-up



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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.
11. 802.11n MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna. N=2 for this given application

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12.5 Measurement Result

POWER DENSITY 802.11b MODE				POWER DENSITY 802.11g MODE			
Freq. (MHz)	PSD (dBm)	Limit (dBm)	Result	Freq. (MHz)	PSD (dBm)	Limit (dBm)	Result
2412	-15.80	8.00	PASS	2412	-16.84	8.00	PASS
2437	-15.81	8.00	PASS	2437	-16.16	8.00	PASS
2462	-16.01	8.00	PASS	2462	-16.83	8.00	PASS

POWER DENSITY 802.11n HT20 MODE				POWER DENSITY 802.11n HT40 MODE			
Freq. (MHz)	PSD (dBm)	Limit (dBm)	Result	Freq. (MHz)	PSD (dBm)	Limit (dBm)	Result
2412	-16.69	6.48	PASS	2422	-20.27	6.48	PASS
2437	-17.34	6.48	PASS	2437	-21.27	6.48	PASS
2462	-17.04	6.48	PASS	2452	-21.26	6.48	PASS

*Refer to next page for plots

Bandedge Limit 802.11b MODE			Bandedge Limit 802.11g MODE		
Freq. (MHz)	PSD (dBm)	Bandedge Limit (dBm)	Freq. (MHz)	PSD (dBm)	Bandedge Limit (dBm)
2412	4.28	-15.72	2412	-2.30	-22.30
2462	4.10	-15.90	2462	-2.41	-22.41
Bandedge Limit 802.11n20 MODE			Bandedge Limit 802.11n40 MODE		
Freq. (MHz)	PSD (dBm)	Bandedge Limit (dBm)	Freq. (MHz)	PSD (dBm)	Bandedge Limit (dBm)
2412	-2.73	-22.73	2422	-7.15	-27.15
2462	-4.04	-24.04	2452	-6.81	-26.81

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802.11b

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



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Power Spectral Density Test Plot (CH-High)



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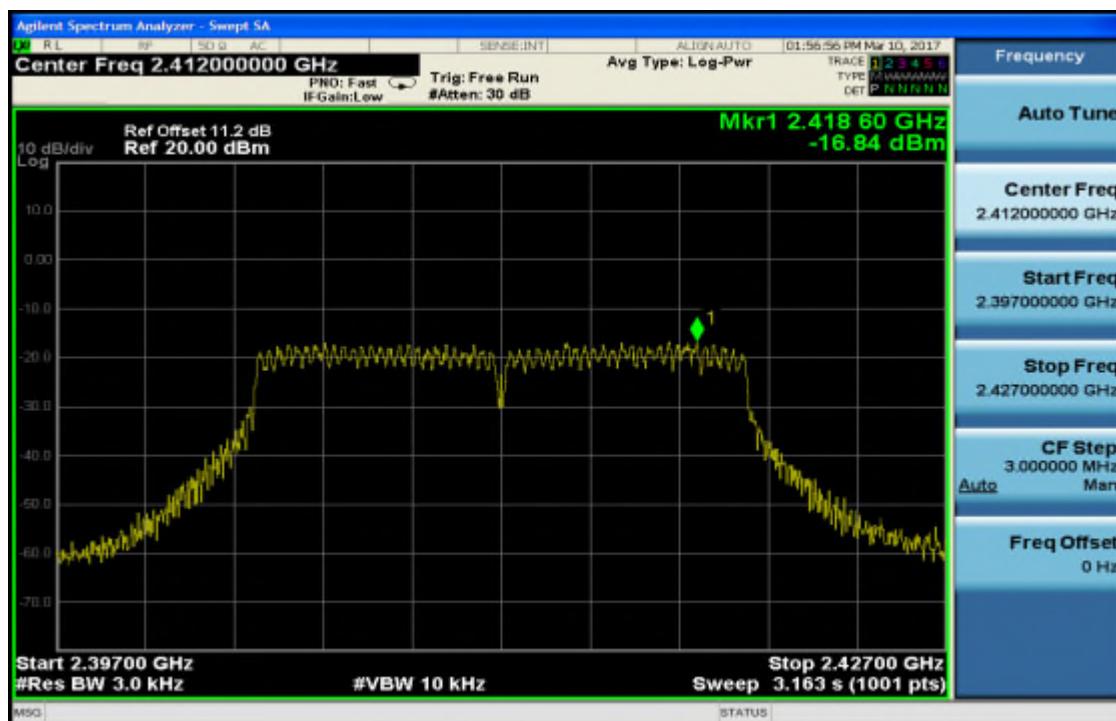
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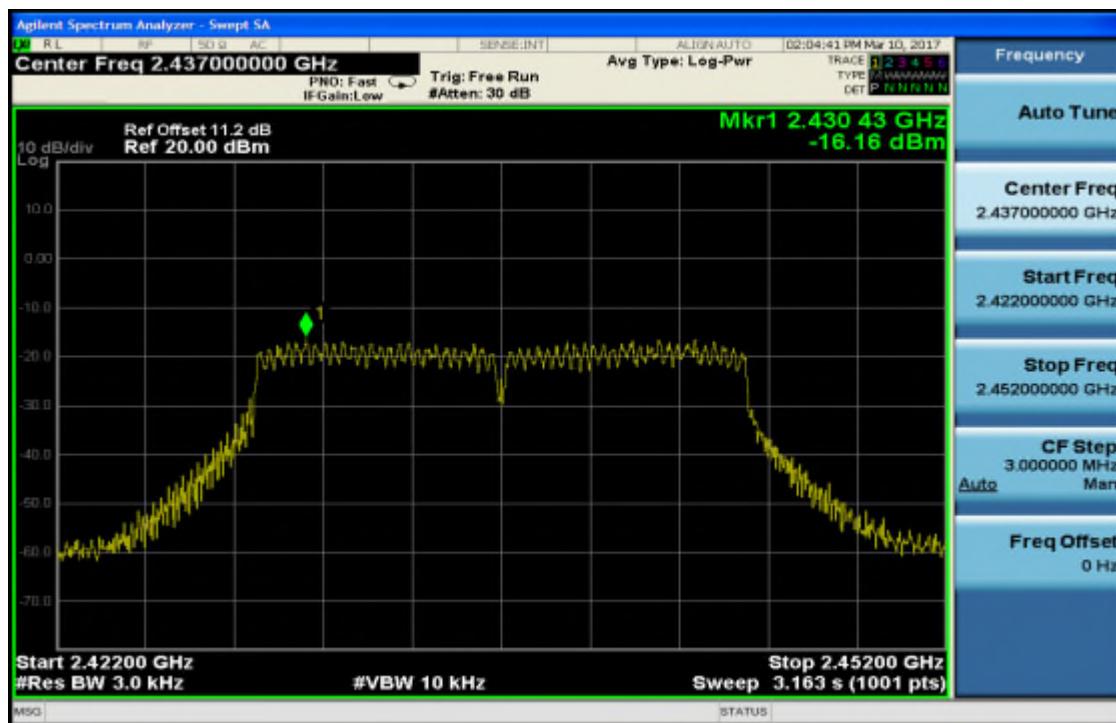
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802.11g

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



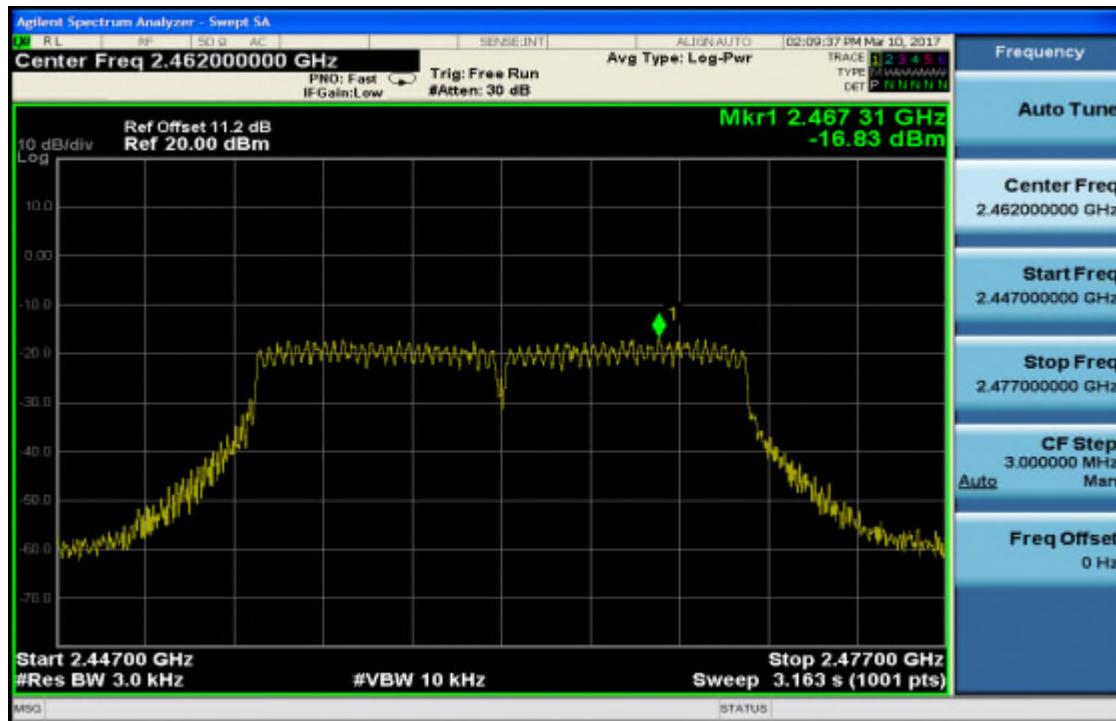
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Power Spectral Density Test Plot (CH-High)



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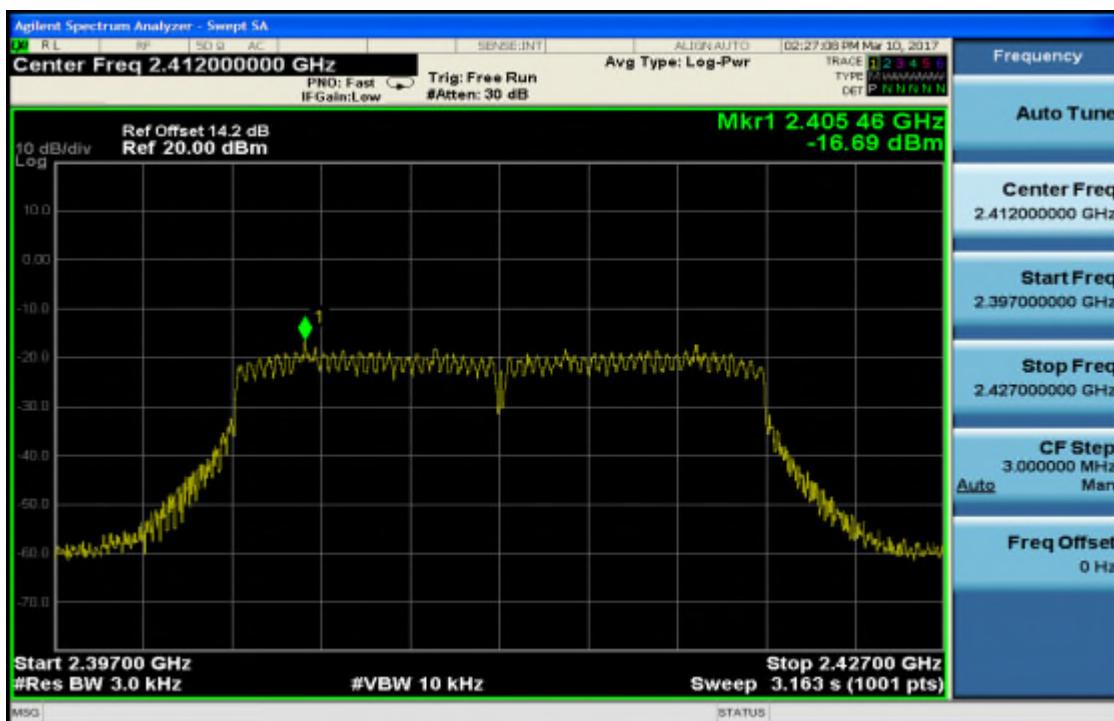
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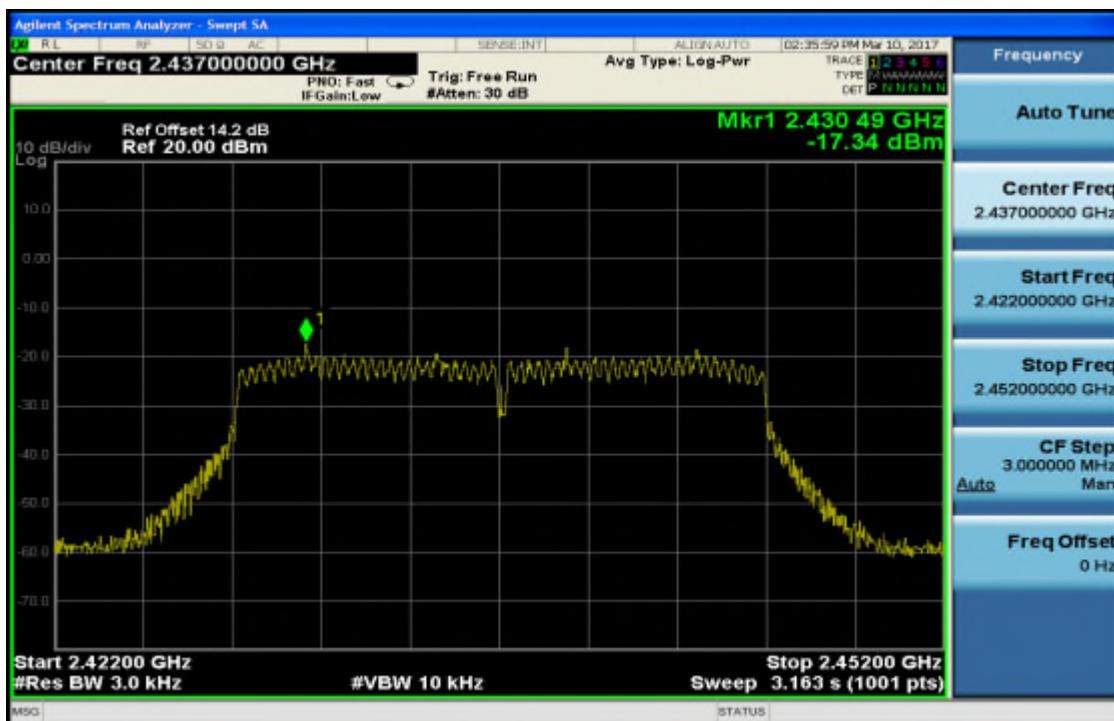
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802.11n_HT20 (MIMO)

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



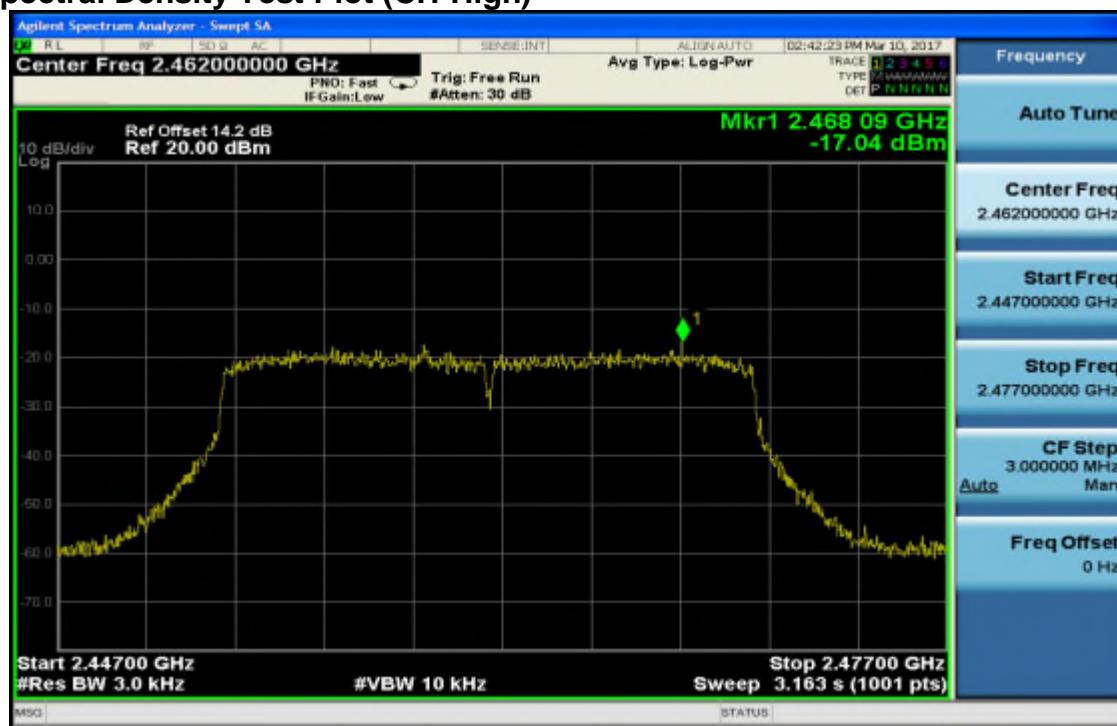
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Power Spectral Density Test Plot (CH-High)



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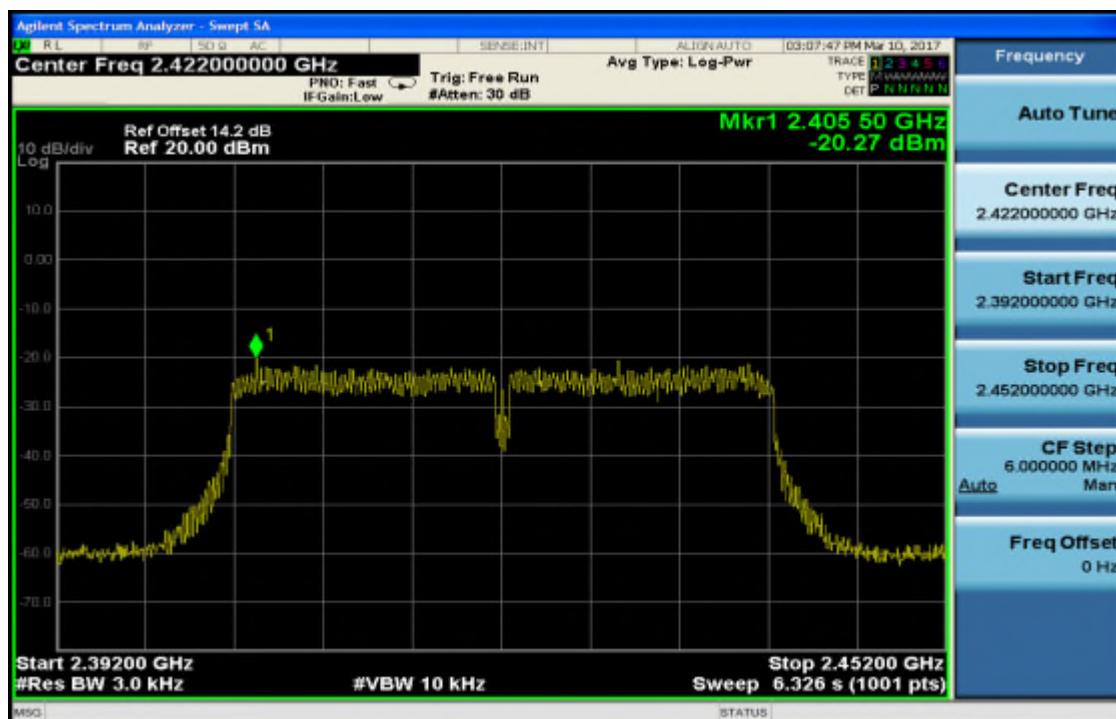
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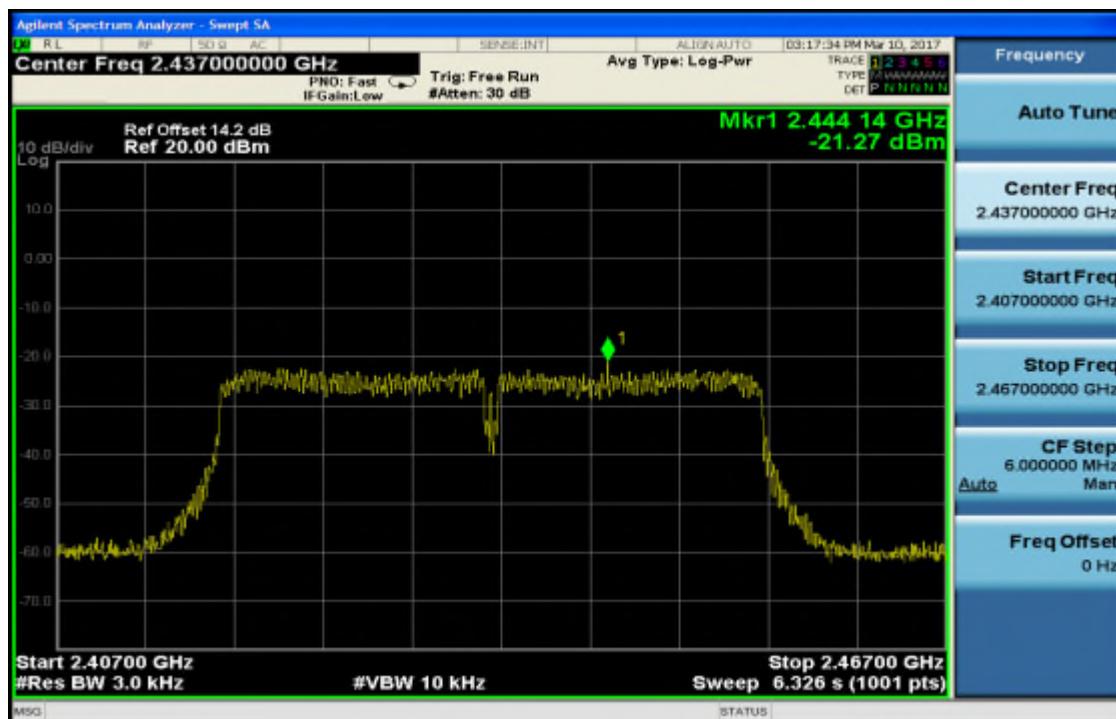
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802.11n_HT40 (MIMO)

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



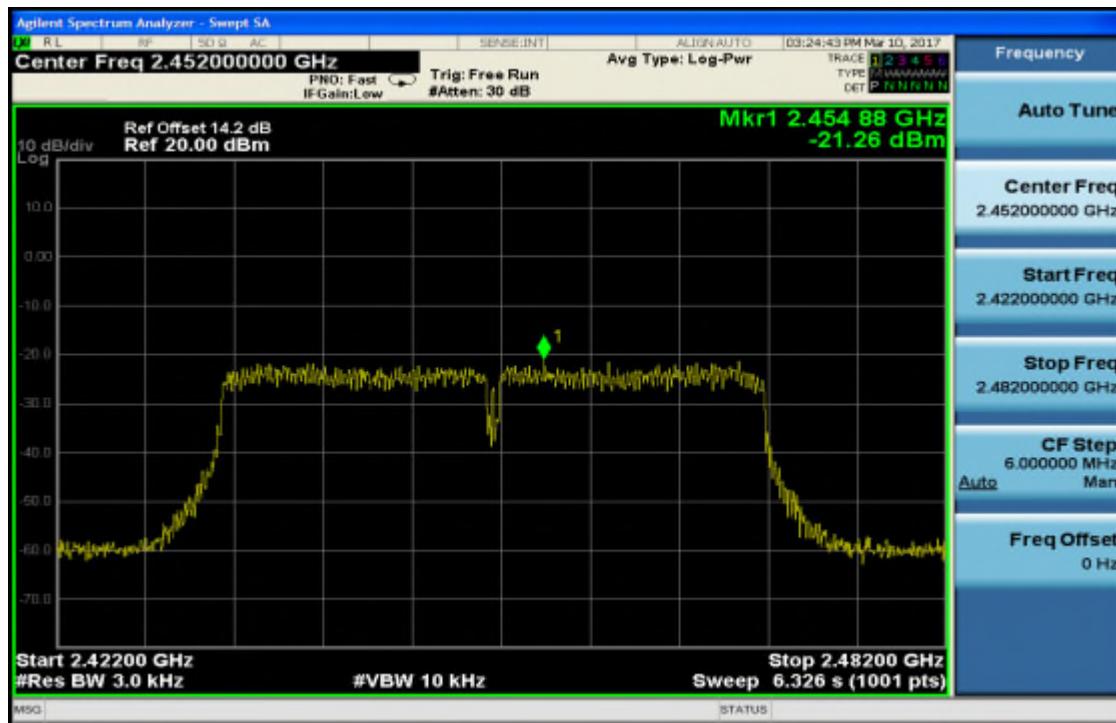
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Power Spectral Density Test Plot (CH-High)



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



802.11b PSD for Bandedge Limit(CH-High)



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802.11g PSD for Bandedge Limit(CH-Low)



802.11g PSD for Bandedge Limit(CH-High)



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802.11n_HT20 PSD for Bandedge Limit(CH-Low)



802.11n_HT20 PSD for Bandedge Limit(CH-High)



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802.11n_HT40 PSD for Bandedge Limit(CH-Low)



802.11n_HT40 PSD for Bandedge Limit(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.

According to RSS-GEN 8.3

The applicant for equipment certification, as per RSP-100, must provide a list of all antenna types that may be used with the licence-exempt transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna.

Licence-exempt transmitters that have received equipment certification may operate with different types of antennas. However, it is not permissible to exceed the maximum equivalent isotropically radiated power (e.i.r.p.) limits specified in the applicable standard (RSS) for the licence-exempt apparatus.

Testing shall be performed using the highest gain antenna of each combination of licence-exempt transmitter and antenna type, with the transmitter output power set at the maximum level.⁹ When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna manufacturer.

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.

The antenna gain is less than 6dBi. Therefore, it is not necessary to reduce maximum output power limit.

~ End of Report ~

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