

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT OF

Applicant: EDIMAX TECHNOLOGY CO., LTD.
No.278, Xinhua 1st Rd., Neihu Dist., Taipei City Taiwan
Product Name: Wireless-N800 High Power Router
Brand Name: ASUS
Model No.: RT-N800HP
Model Difference: N/A
FCC ID: NDD9568291707
Report Number: ER/2017/90143
FCC Rule Part: §15.247, Cat: DTS
Issue Date: Oct. 23, 2017
Date of Test: Sep. 21, 2017 ~ Oct. 16, 2017
Date of EUT Received: Sep. 21, 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.

Karen Huang
Prepared By: _____

Karen Huang / Clerk

Jim Chang
Approved By: _____

Jim Chang / Asst. Manager



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Revision History

Report Number	Revision	Description	Issue Date
ER/2017/90143	Rev.00	Initial creation of document	Oct. 23, 2017

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1 GENERAL INFORMATION

1.1 Product description

General:

Product Name:	Wireless-N800 High Power Router	
Brand Name:	ASUS	
Model No.:	RT-N800HP	
Model difference:	N/A	
Hardware Version:	A1	
Software Version:	382	
Power Supply:	12Vdc from AC/DC Adapter Adapter: Model No.: DSA-18PFR-12 FUS 120150, Supplier: DVE	

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WLAN 2.4GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg)	Modulation Technology
11b/g	2412-2462	11	b: 28.42dBm (MIMO Chain 0+1+2+3) g: 29.52dBm (MIMO Chain 0+1+2+3)	DSSS, OFDM
11n	HT/VHT20 2412-2462	11	CDD Mode: HT20: 29.67dBm (MIMO Chain 0+1+2+3) Beam Forming Mode: HT20: 28.52dBm (MIMO Chain 0+1+2+3)	OFDM
11n	HT/VHT40 2422-2452	7	CDD Mode: HT40: 29.52dBm (MIMO Chain 0+1+2+3) Beam Forming Mode: HT40: 28.60dBm (MIMO Chain 0+1+2+3)	OFDM
Antenna Designation		Dipole Antenna, Supplier: Walsin Technology Corporation 1. P/N: RFDPA251305NNAB901, Gain: 5.92dBi 2. P/N: RFDPA251309NNAB901, Gain: 5.87dBi 3.P/N: RFDPA251321NNAB901, Gain: 5.7dBi 4.P/N: RFDPA251325NNAB901 Gain: 5.61dBi		
Modulation type:		CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM		
Transition Rate:		802.11 b: 1/2/5.5/11 Mbps 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 288.9Mbps 802.11 n_40MHz: 13.5 – 600Mbps		

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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

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 Registration Number and Designation number are: 509634 / TW0001

1.4 Special Accessories

There are no special accessories used while test was conducted.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 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 and attenuator.

Offset:

= RF cable loss (dB)+ attenuation factor(dB) dB =18.6(dB) (CDD Mode)

= RF cable loss (dB)+ attenuation factor(dB) dB =21.8(dB) (Beam Forming Mode)

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission & Conducted (Antenna Port) configuration

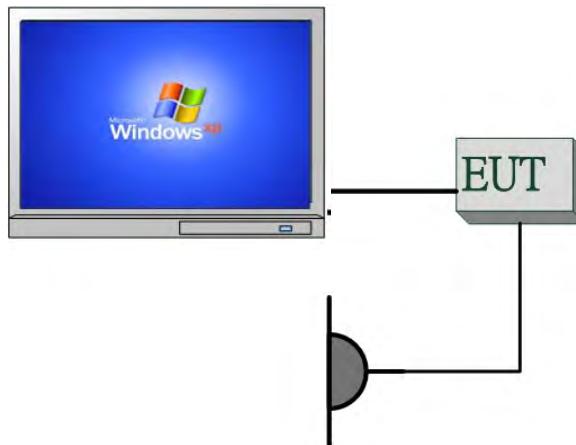


Fig. 2-1 Conduction configuration

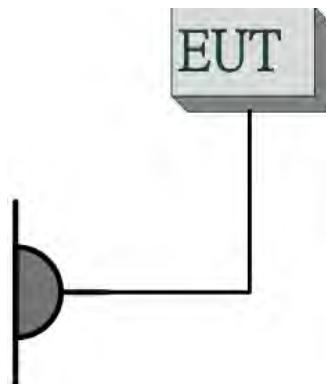


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	DELL	E5400	3704625136	N/A	Un-shielded

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	Maximum conducted (average) output power	Compliant
§15.247(a)(2)	6dB Emission Bandwidth	Compliant
§15.247(d)	Conducted Band Edge and Spurious Emission	Compliant
§15.247(d)	Radiated Band Edge and Spurious Emission	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.203 §15.247(b)	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

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

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

7 channels are provided for 802.11n-HT40

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

4.2 The Worst Test Modes and Channel Details

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

RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11g	1 to 11	1,6,11	OFDM	54	Main

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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	11	Main
802.11g	1 to 11	1, 6, 11	OFDM	54	Main
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	MCS 24	MIMO
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	MCS 24	MIMO

Remark: Included CDD and Beam Forming Mode test data.

Note:

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

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1, 6, 11	DSSS	11	Main
802.11g	1 to 11	1, 6, 11	OFDM	54	Main
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	MCS 24	MIMO
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	MCS 24	MIMO

Remark: Included CDD and Beam Forming Mode test data.

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.

d) *Unequal antenna gains, with equal transmit powers.* For antenna gains given by G_1, G_2, \dots, G_N dB_i

(i) If transmit signals are *correlated*, then

Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{\text{ANT}}]$ dB_i [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

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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	05/11/2017	05/10/2018
LISN	SCHWARZ- BECK	NSLK 8127	8127-649	05/22/2017	05/21/2018
LISN	MESS TEC	FCC-LISN-50/250-2 5-2-01	4034	03/19/2017	03/18/2018
Coaxial Cables	N/A	WK CE Cable	N/A	11/26/2016	11/25/2017

6.3 EUT Setup

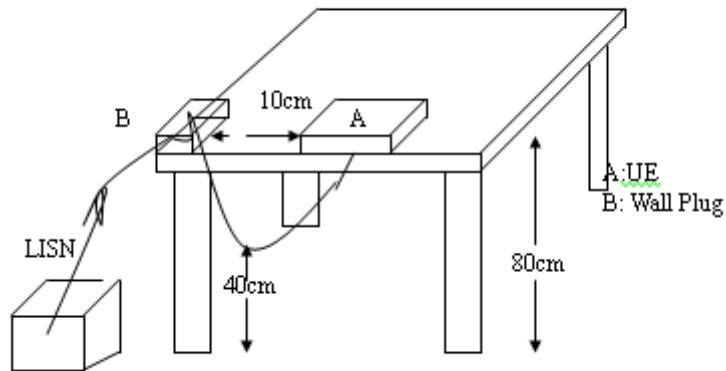
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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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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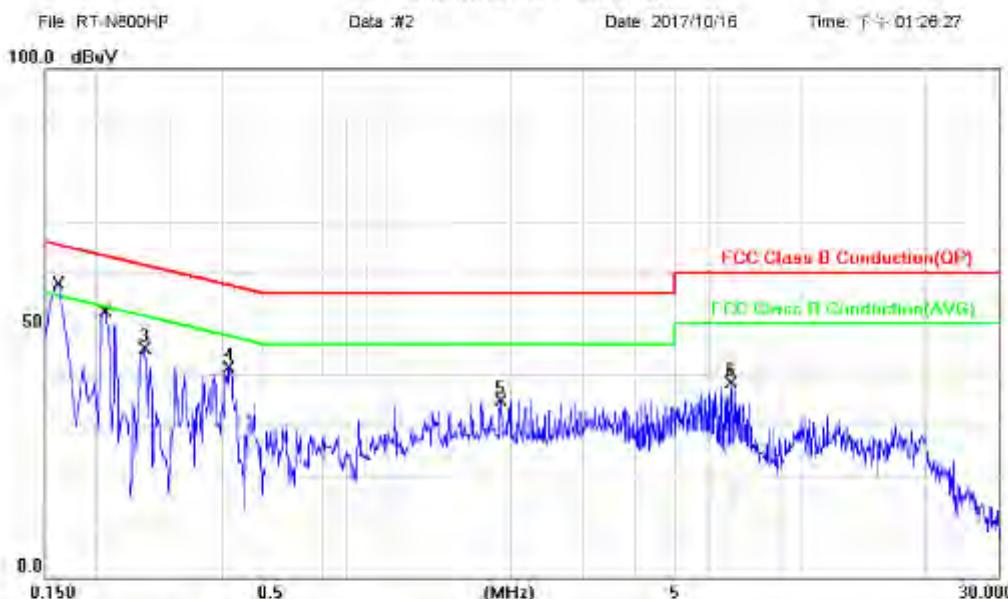
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Site: Conduction Room
Phase: **L1**
Temperature: 20 °C
Limit: FCC Class B Conduction(QP)
Power: AC 120V/60Hz
Humidity: 56 %
Mode: Operation mode
Note: Switching Adapter: DSA-18PFM-12 FUS 120150

Conducted Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1620	55.70	0.12	55.82	65.36	-9.54	QP	
2		0.2100	49.90	0.12	50.02	63.21	-13.19	QP	
3		0.2620	44.99	0.12	45.11	61.37	-16.26	peak	
4		0.4180	41.25	0.11	41.36	57.49	-16.13	peak	
5		1.8800	34.82	0.14	34.96	56.00	-21.04	peak	
6		6.7780	38.02	0.33	38.35	60.00	-21.65	peak	

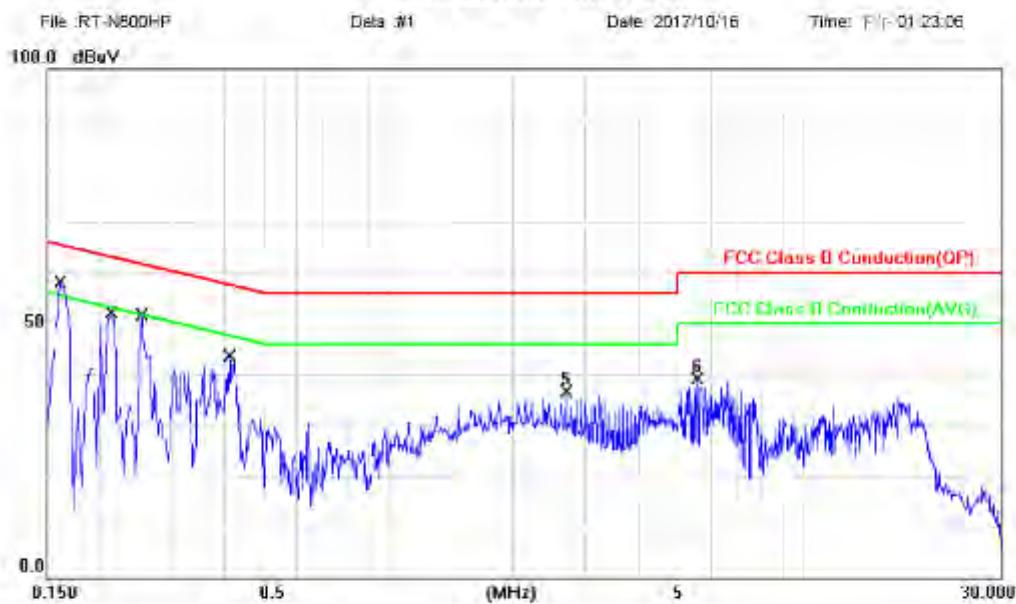
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Site: Conduction Room Phase: *N* Temperature: 20 °C
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 58 %
 Mode: Operation mode
 Note: Switching Adapter: DSA-18PFM-12 FUS 120150

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dB			
1	*	0.1620	56.10	0.07	56.17	65.36	-9.19	QP	
2		0.2140	49.70	0.07	49.77	63.05	-13.28	QP	
3		0.2540	43.50	0.07	43.57	61.63	-18.06	QP	
4		0.4140	39.60	0.08	39.68	57.57	-17.89	QP	
5		2.6900	36.43	0.14	36.57	56.00	-19.43	peak	
6		5.5780	38.89	0.27	39.16	60.00	-20.84	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	95.89	0.18
802.11g	80.35	0.95
802.11n_20	80.00	0.97
802.11n_40	65.31	1.85

$$b = 95.89\%, g = 80.35\%, n_ht_20 = 80\%$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9589) = 0.18$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.8035) = 0.95$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.8) = 0.97$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.6531) = 1.85$$

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Beam Forming Mode**Duty Cycle**

	Duty Cycle (%)	Duty Factor (dB)
802.11n_20	98.85	0.05
802.11n_40	95.62	0.19

$$b = \%, g = \%, n_{ht_20} = 98.85\%$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9885) = 0.05$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9562) = 0.19$$

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7.1 DUTY CYCLE TEST SIGNAL Measurement Result

802.11 b



802.11 g



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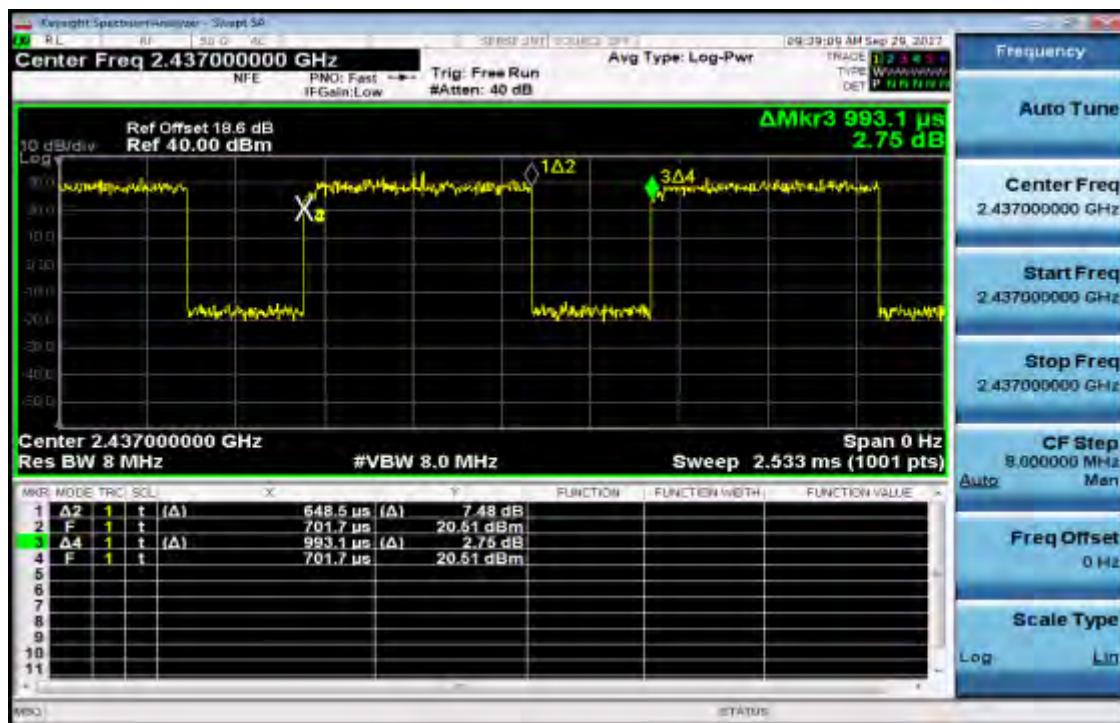
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802.11 n_20 MHz



802.11 n_40 MHz



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Beam Forming Mode

802.11 n_20 MHz



802.11 n_40 MHz



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8 MAXIMUM CONDUCTED OUTPUT POWER

8.1 Standard Applicable

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

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

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

CDD Mode

Note:

Main Antenna Gain:	5.92 dBi
Aux1 Antenna Gain:	5.87 dBi
Aux2 Antenna Gain:	5.70 dBi
Aux3 Antenna Gain:	5.61 dBi
Number Antenna:	4 pcs
Limit:	30 dBm

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

Effective Legacy Gain (dBi) = 5.92dBi

Limit: 30dBm-(5.92- 6dBi)=30

Beam Forming Mode

Note:

Main Antenna Gain:	5.92 dBi
Aux1 Antenna Gain:	5.87 dBi
Aux2 Antenna Gain:	5.70 dBi
Aux3 Antenna Gain:	5.61 dBi
Number Antenna:	4 pcs
Limit:	30 dBm

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

Effective Legacy Gain (dBi) = 7.12dBi

Limit: 30dBm-(7.12- 6dBi)=28.88dBm

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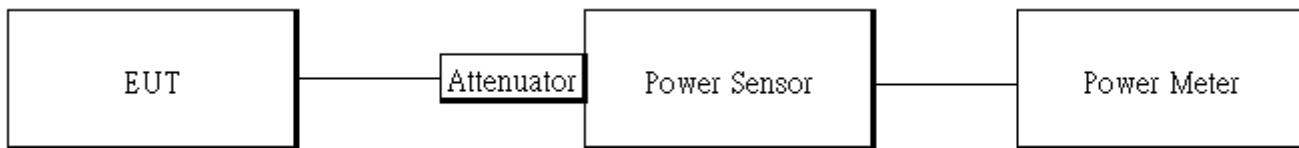
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8.2 Measurement Equipment Used

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

8.3 Test Set-up

Power Meter:



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

CDD Mode

802.11b_MIMO										
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)				Max. Avg. Output include tune up tolerance Power (dBm)	Max. Avg. Output include tune up tolerance Power (mW)	Limit	RESULT
			CH 0	CH 1	CH 2	CH3				
1	2412	1	19.15	18.23	18.32	18.53	24.78	300.30	1 Watt = 30.00 dBm	PASS
6	2437	1	22.69	21.68	22.22	22.23	28.42	695.43	1 Watt = 30.00 dBm	PASS
11	2462	1	18.67	18.64	17.76	17.77	24.44	277.69	1 Watt = 30.00 dBm	PASS

802.11g_MIMO										
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)				Max. Avg. Output include tune up tolerance Power (dBm)	Max. Avg. Output include tune up tolerance Power (mW)	Limit	RESULT
			CH 0	CH 1	CH 2	CH3				
1	2412	6	15.69	15.07	15.19	15.65	22.38	172.96	1 Watt = 30.00 dBm	PASS
6	2437	6	22.46	22.43	22.32	22.97	29.52	896.01	1 Watt = 30.00 dBm	PASS
11	2462	6	14.69	14.34	14.17	14.43	21.38	137.48	1 Watt = 30.00 dBm	PASS

802.11n_HT20M MIMO										
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)				Max. Avg. Output include tune up tolerance Power (dBm)	Max. Avg. Output include tune up tolerance Power (mW)	Limit	RESULT
			CH 0	CH 1	CH 2	CH3				
1	2412	MCS2 4	15.94	15.31	15.29	15.55	22.52	178.66	1 Watt = 30.00 dBm	PASS
6	2437	MCS2 4	22.65	22.87	22.76	22.43	29.67	926.88	1 Watt = 30.00 dBm	PASS
11	2462	MCS2 4	15.74	15.46	14.81	15.04	22.27	168.55	1 Watt = 30.00 dBm	PASS

802.11n_HT40M MIMO										
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)				Max. Avg. Output include tune up tolerance Power (dBm)	Max. Avg. Output include tune up tolerance Power (mW)	Limit	RESULT
			CH 0	CH 1	CH 2	CH3				
3	2422	MCS2 4	12.09	11.41	11.80	11.98	19.70	93.29	1 Watt = 30.00 dBm	PASS
6	2437	MCS2 4	21.96	21.03	21.67	21.89	29.52	896.06	1 Watt = 30.00 dBm	PASS
9	2452	MCS2 4	12.05	11.32	11.64	11.74	19.57	90.49	1 Watt = 30.00 dBm	PASS

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

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Beam Forming Mode

802.11n_HT20M MIMO

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)				Max. Avg. Output include tune up tolerance Power (dBm)	Max. Avg. Output include tune up tolerance Power (mW)	Limit	RESULT
			CH 0	CH 1	CH 2	CH3				
1	2412	MCS24	18.23	17.28	17.58	18.21	23.91	246.32	1 Watt = 28.88 dBm	PASS
6	2437	MCS24	22.66	21.79	22.76	22.51	28.52	710.72	1 Watt = 28.88 dBm	PASS
11	2462	MCS24	17.63	17.51	16.55	17.02	23.27	212.28	1 Watt = 28.88 dBm	PASS

802.11n_HT40M MIMO

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)				Max. Avg. Output include tune up tolerance Power (dBm)	Max. Avg. Output include tune up tolerance Power (mW)	Limit	RESULT
			CH 0	CH 1	CH 2	CH3				
3	2422	MCS24	16.52	15.51	16.03	16.35	22.33	171.17	1 Watt = 28.88 dBm	PASS
6	2437	MCS24	22.86	20.78	22.69	22.87	28.60	724.00	1 Watt = 28.88 dBm	PASS
9	2452	MCS24	16.62	15.53	16.07	16.43	22.40	173.67	1 Watt = 28.88 dBm	PASS

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

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9 6DB BANDWIDTH MEASUREMENT

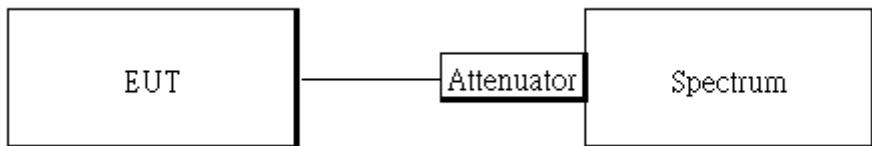
9.1 Standard Applicable

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

9.2 Measurement Equipment Used

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

9.3 Test Set-up



9.4 Measurement Procedure

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

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9.5 Measurement Result

CDD Mode

6dB Bandwidth

802.11b Main

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result	Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	8079	> 500	PASS	2412	8076	> 500	PASS
2437	8079	> 500	PASS	2437	8081	> 500	PASS
2462	8056	> 500	PASS	2462	8052	> 500	PASS

802.11b Aux2

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result	Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	7584	> 500	PASS	2412	8078	> 500	PASS
2437	8061	> 500	PASS	2437	8086	> 500	PASS
2462	8074	> 500	PASS	2462	8087	> 500	PASS

802.11g Main

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result	Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15120	> 500	PASS	2412	15130	> 500	PASS
2437	15130	> 500	PASS	2437	15130	> 500	PASS
2462	15130	> 500	PASS	2462	15130	> 500	PASS

802.11g Aux2

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result	Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15130	> 500	PASS	2412	15130	> 500	PASS
2437	15130	> 500	PASS	2437	15130	> 500	PASS
2462	15130	> 500	PASS	2462	15130	> 500	PASS

802.11_n_HT20 Main

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result	Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15130	> 500	PASS	2412	15120	> 500	PASS
2437	15140	> 500	PASS	2437	15130	> 500	PASS
2462	15110	> 500	PASS	2462	15120	> 500	PASS

802.11_n_HT20 Aux2

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result	Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15130	> 500	PASS	2412	15120	> 500	PASS
2437	15140	> 500	PASS	2437	15110	> 500	PASS
2462	15130	> 500	PASS	2462	15110	> 500	PASS

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802.11_n_HT40 Main

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result	Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35140	> 500	PASS	2422	35130	> 500	PASS
2437	35100	> 500	PASS	2437	35070	> 500	PASS
2452	35140	> 500	PASS	2452	35130	> 500	PASS

802.11_n_HT40 Aux2

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result	Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35120	> 500	PASS	2422	35120	> 500	PASS
2437	33830	> 500	PASS	2437	35020	> 500	PASS
2452	35120	> 500	PASS	2452	35130	> 500	PASS

802.11_n_HT40 Aux1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result	Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35140	> 500	PASS	2422	35130	> 500	PASS
2437	35100	> 500	PASS	2437	35070	> 500	PASS
2452	35140	> 500	PASS	2452	35130	> 500	PASS

Beam Forming Mode

802.11_n_HT20 Main

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15130	> 500	PASS
2437	15110	> 500	PASS
2462	15120	> 500	PASS

802.11_n_HT20 Aux1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15140	> 500	PASS
2437	15130	> 500	PASS
2462	15130	> 500	PASS

802.11_n_HT20 Aux2

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15130	> 500	PASS
2437	15130	> 500	PASS
2462	15140	> 500	PASS

802.11_n_HT20 Aux3

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15140	> 500	PASS
2437	15130	> 500	PASS
2462	15120	> 500	PASS

802.11_n_HT40 Main

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35150	> 500	PASS
2437	35130	> 500	PASS
2452	35130	> 500	PASS

802.11_n_HT40 Aux1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35150	> 500	PASS
2437	35080	> 500	PASS
2452	35110	> 500	PASS

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802.11_n_HT40 Aux2

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35140	> 500	PASS
2437	35090	> 500	PASS
2452	35080	> 500	PASS

802.11_n_HT40 Aux3

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35150	> 500	PASS
2437	35110	> 500	PASS
2452	35100	> 500	PASS

*Refer to next page for plots

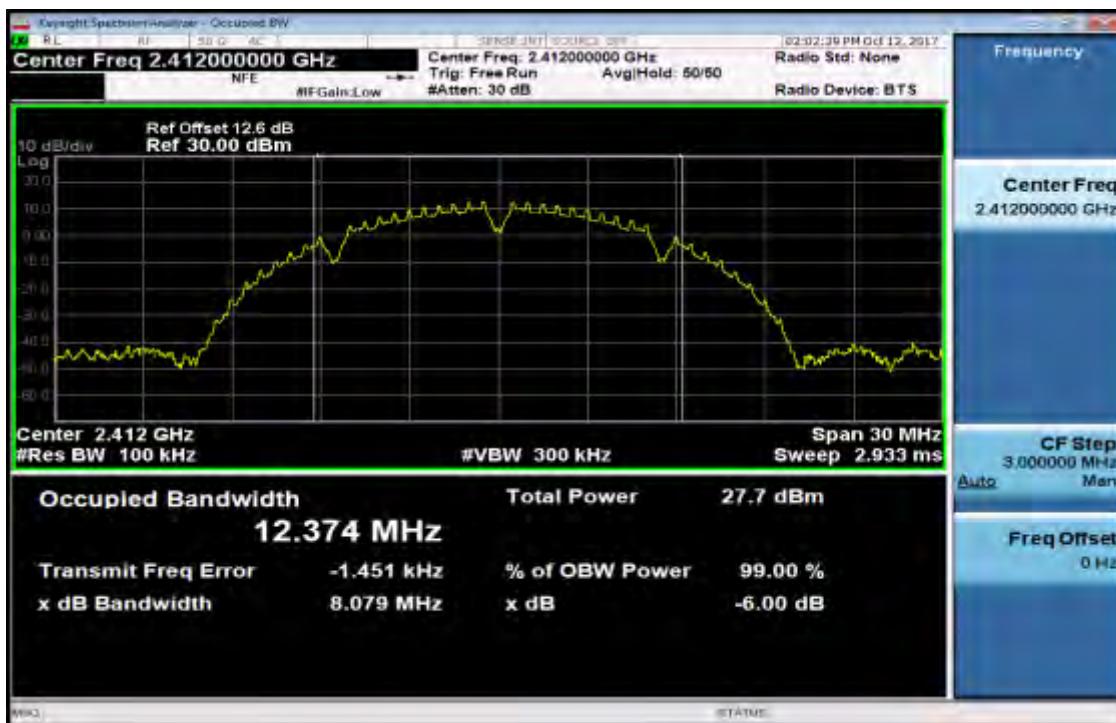
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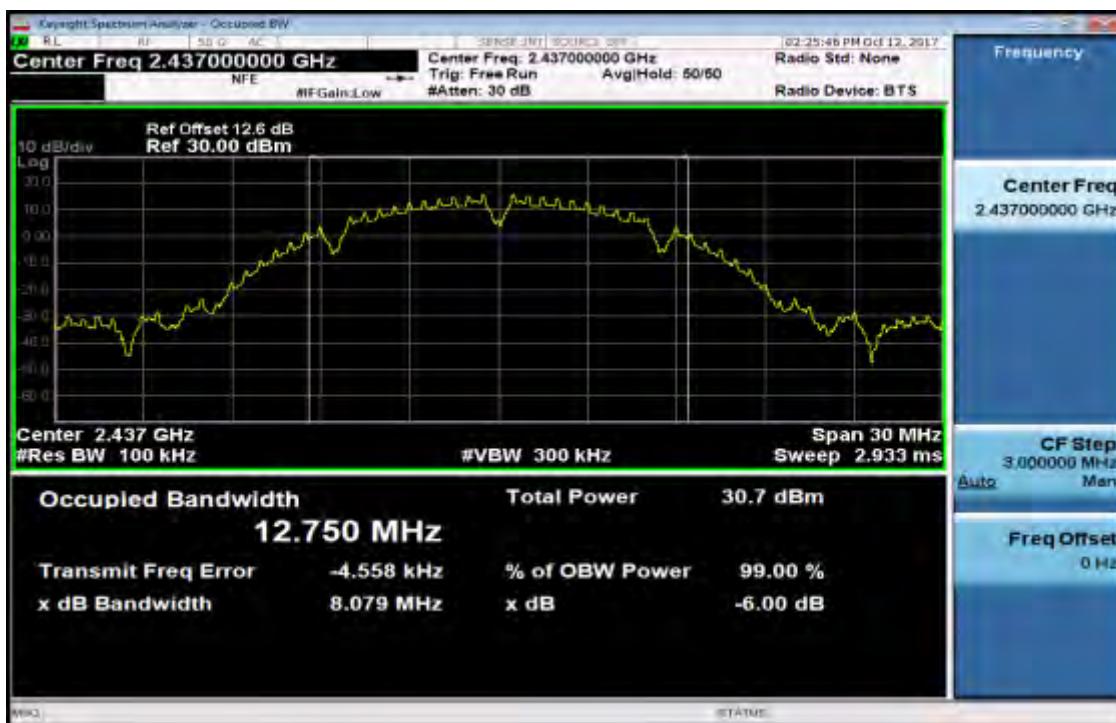
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802.11b (Main)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

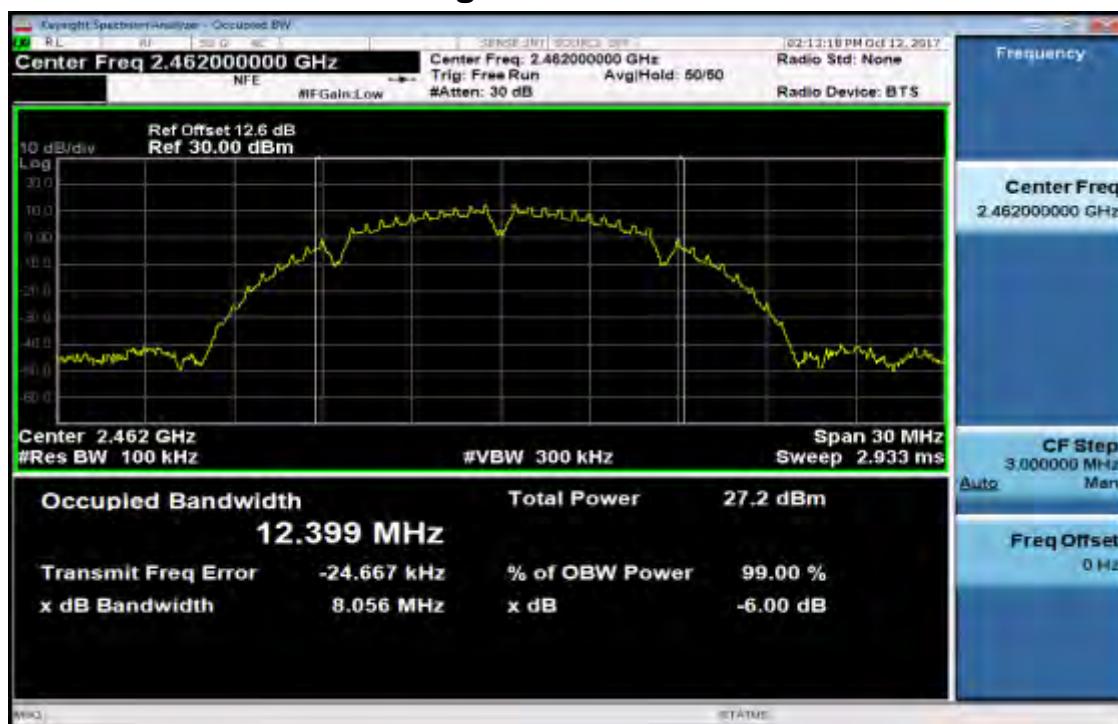


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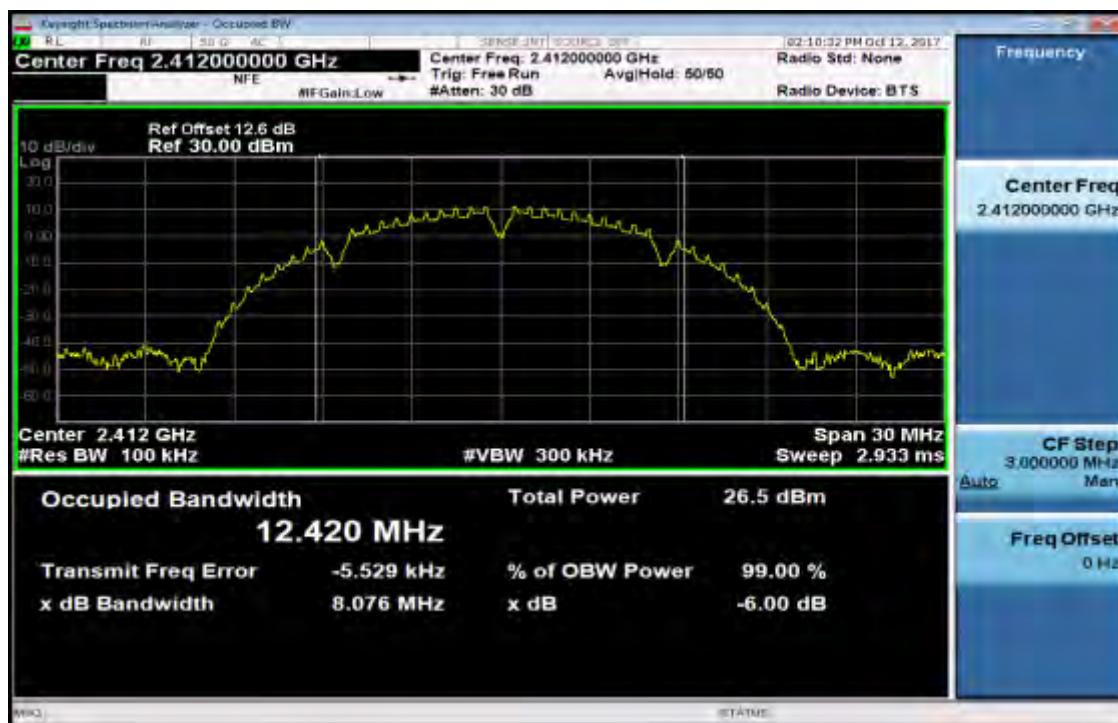
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6dB Band Width Test Data CH-High



802.11b (Aux 1)

6dB Band Width Test Data CH-Low



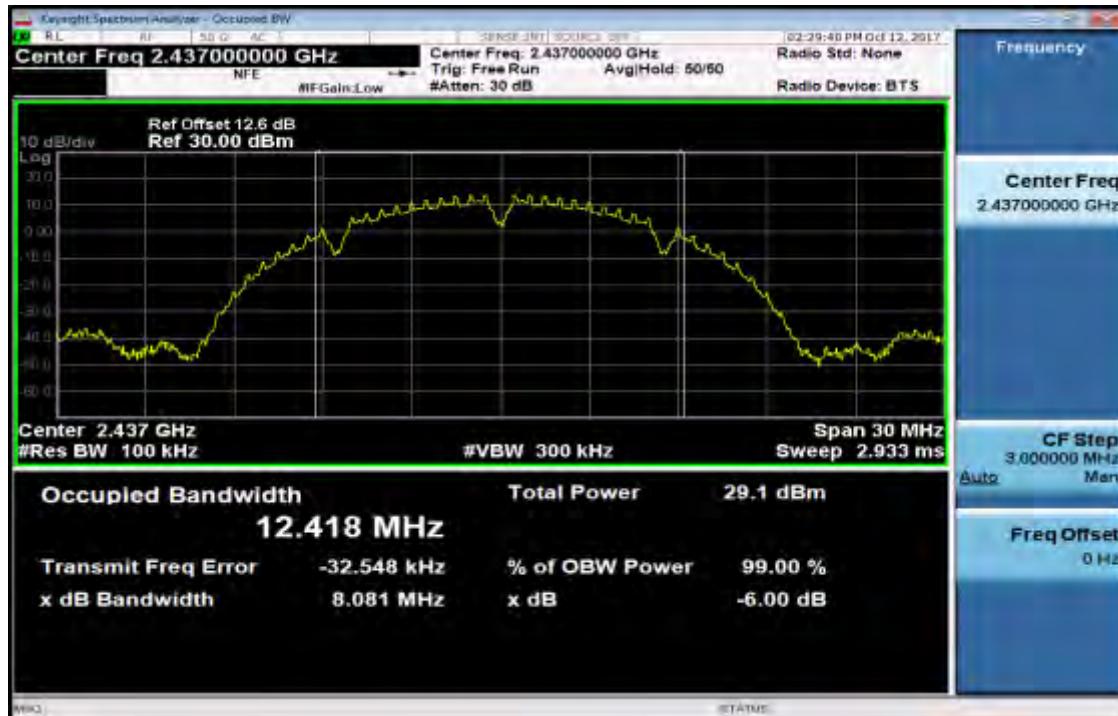
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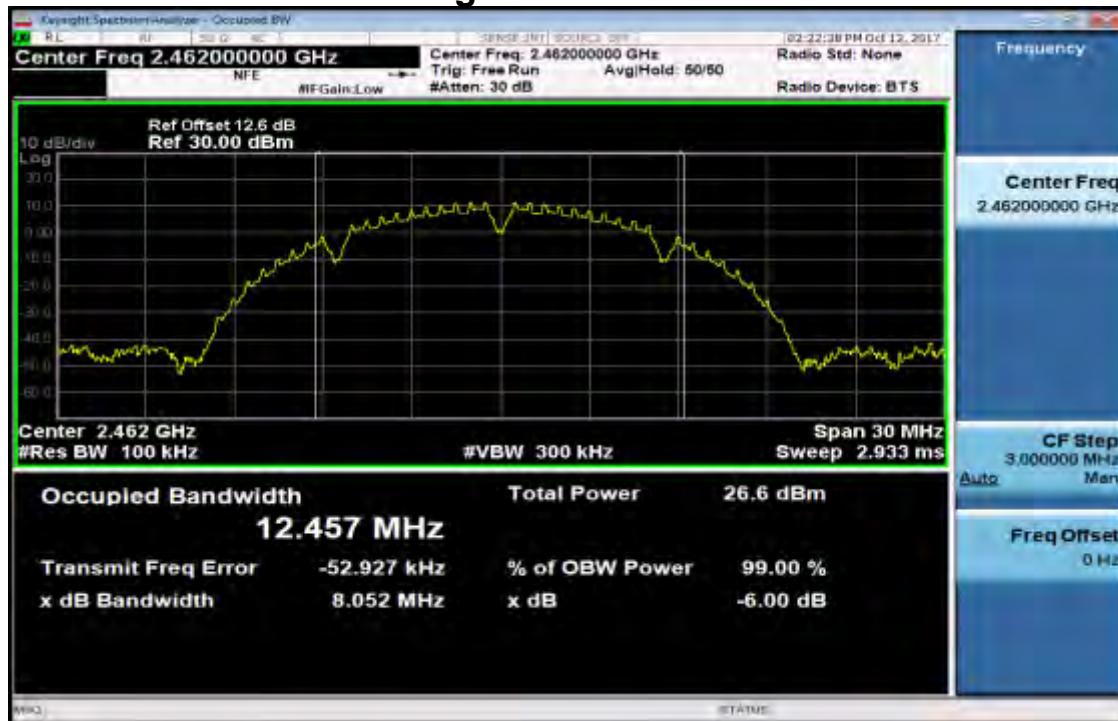
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



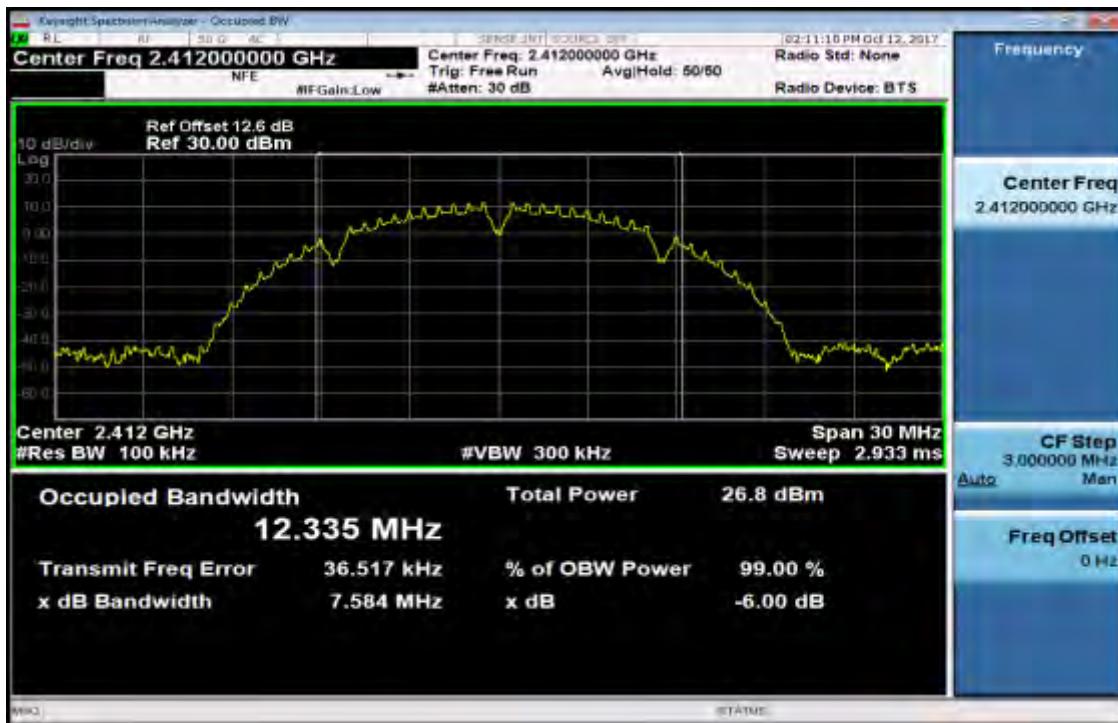
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802.11b (Aux 2)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

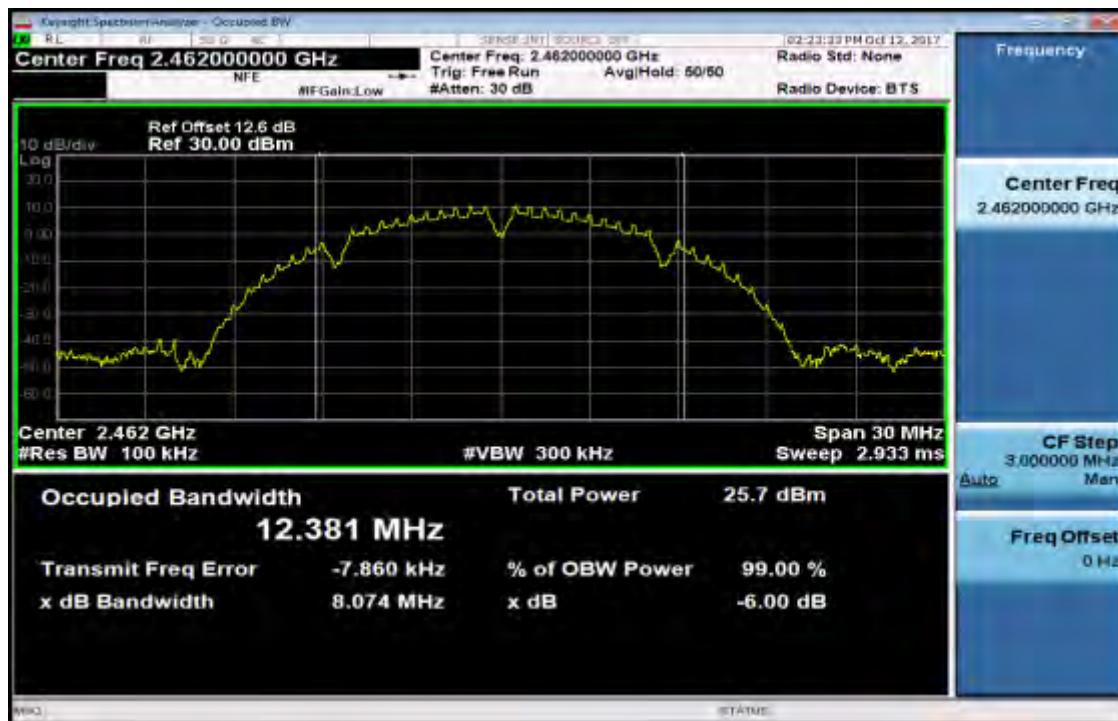


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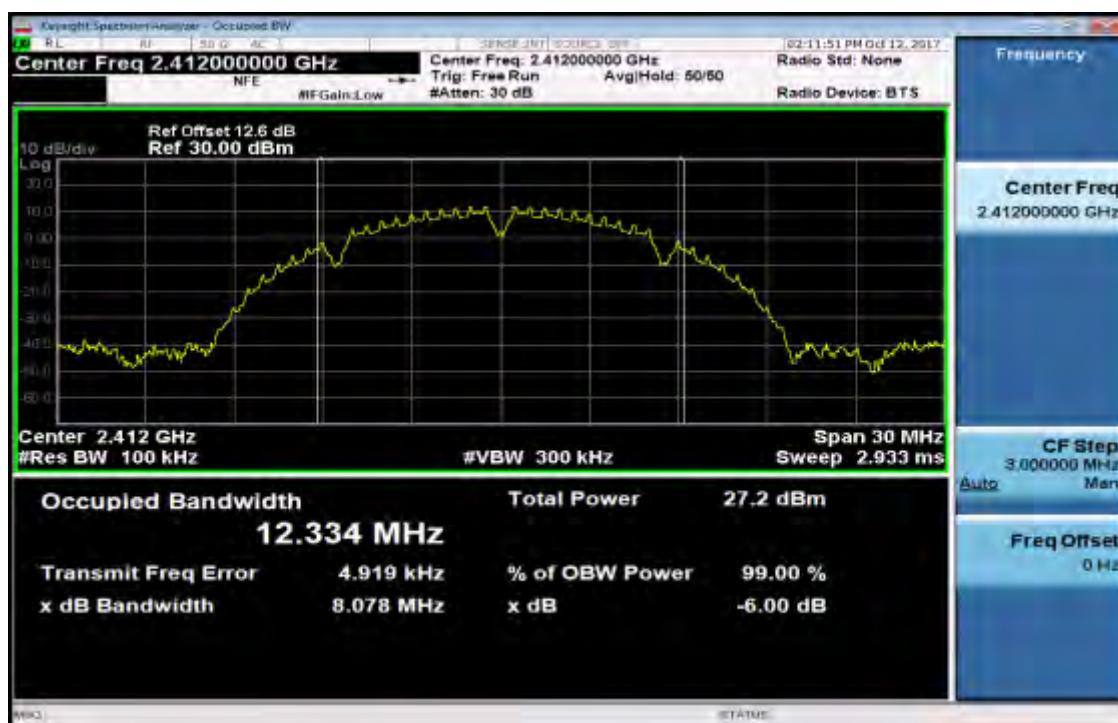
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6dB Band Width Test Data CH-High



802.11b (Aux 3)

6dB Band Width Test Data CH-Low

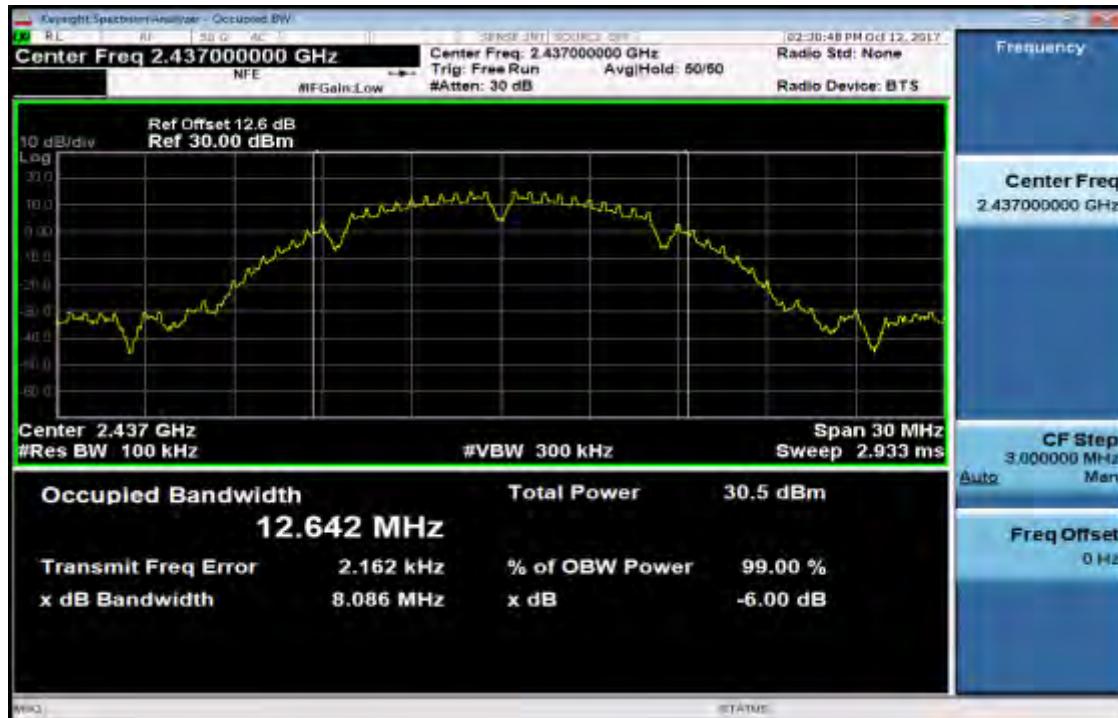


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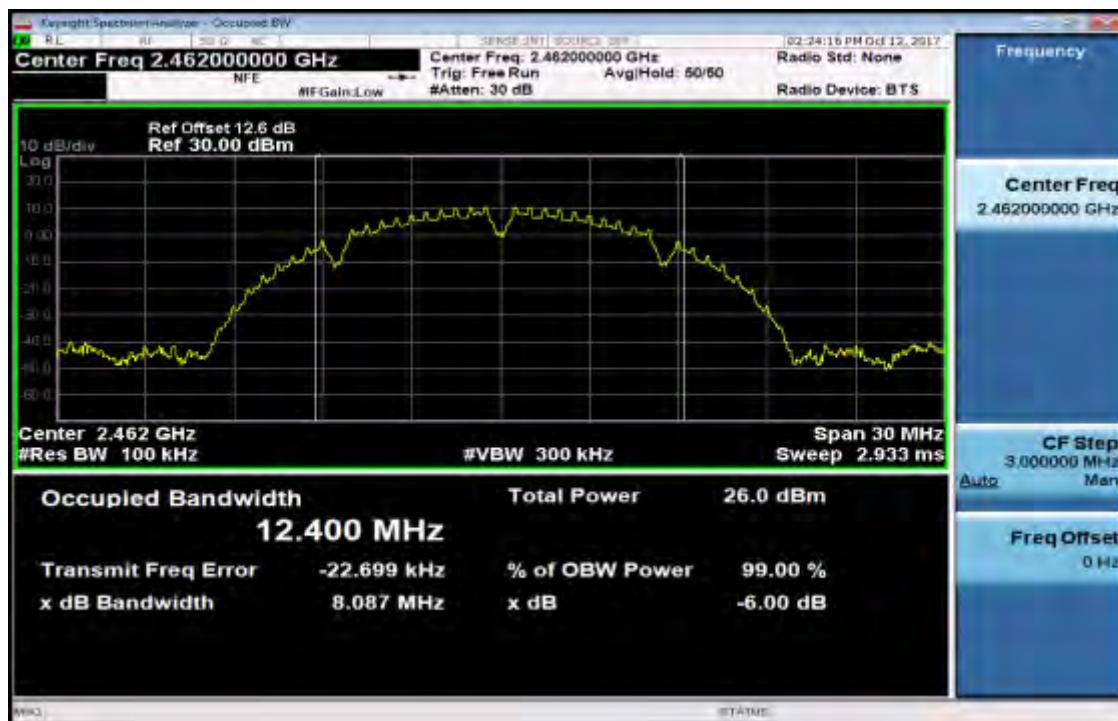
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



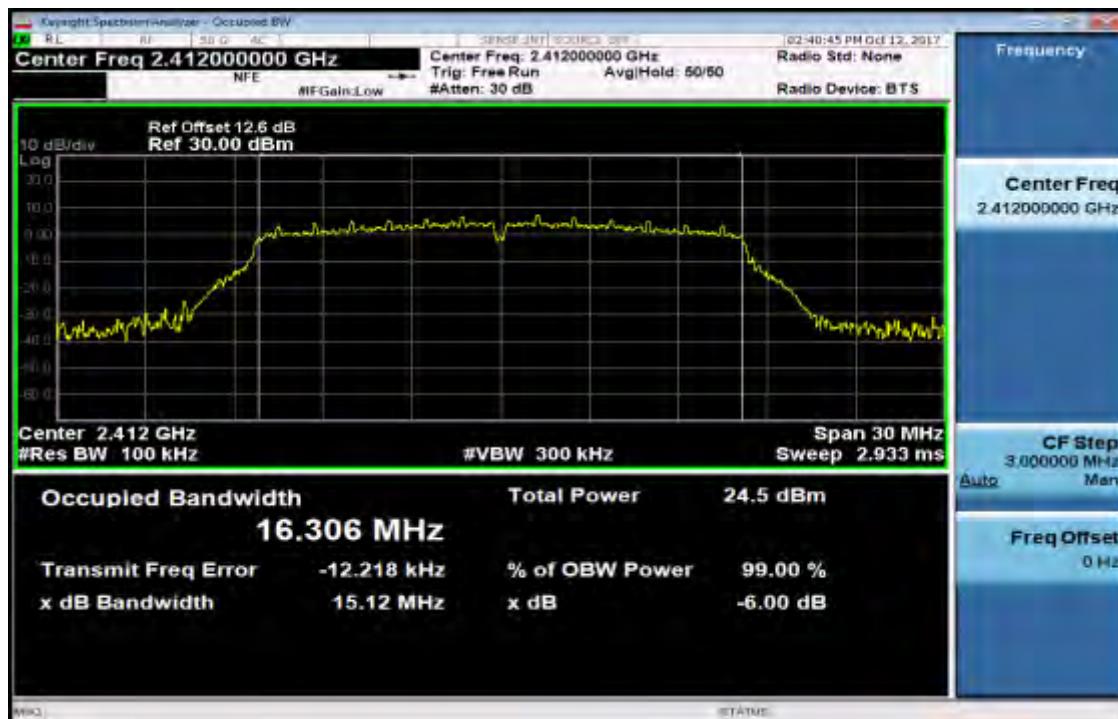
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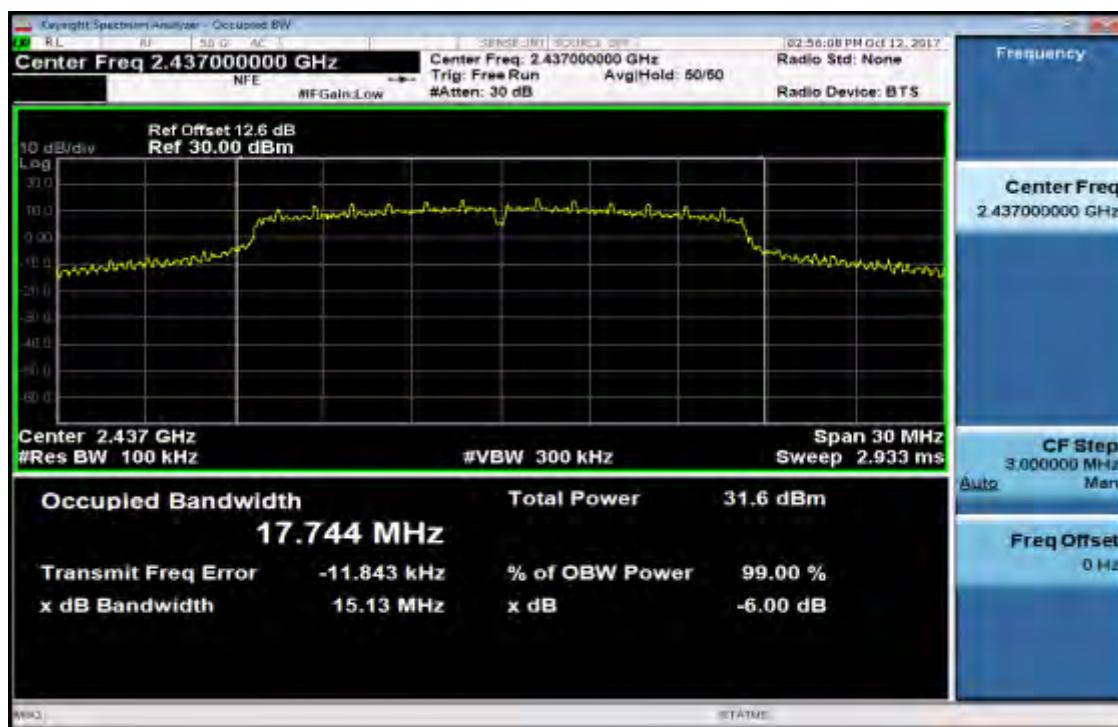
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802.11g (Main)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



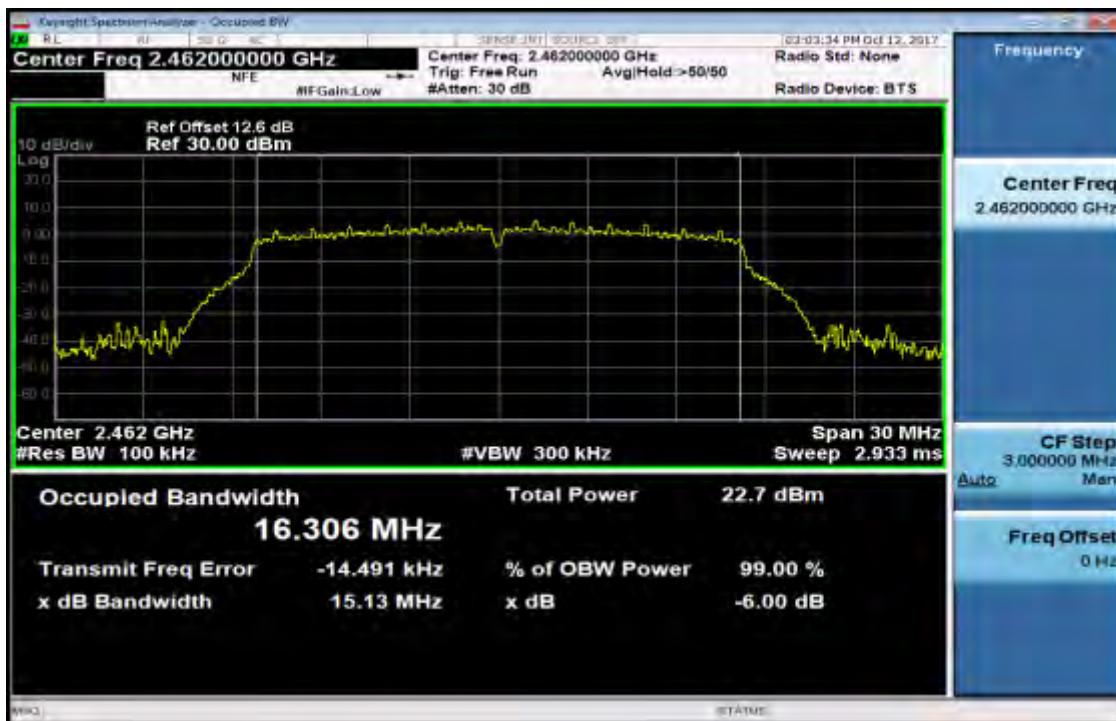
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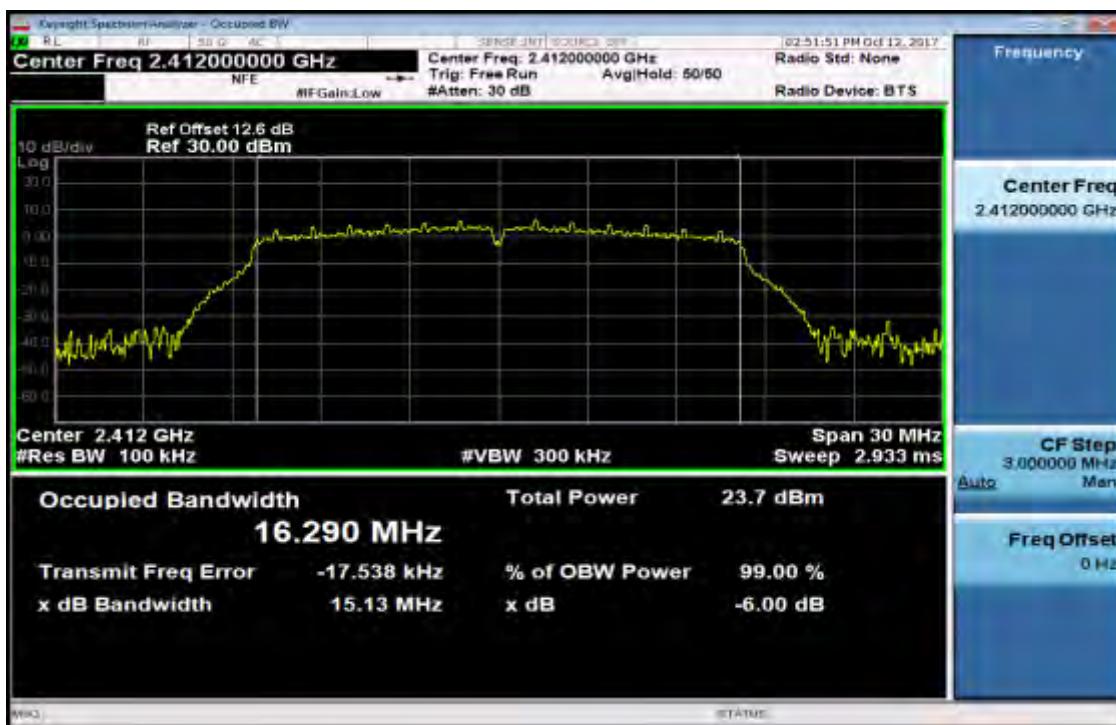
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6dB Band Width Test Data CH-High



802.11g (Aux 1)

6dB Band Width Test Data CH-Low

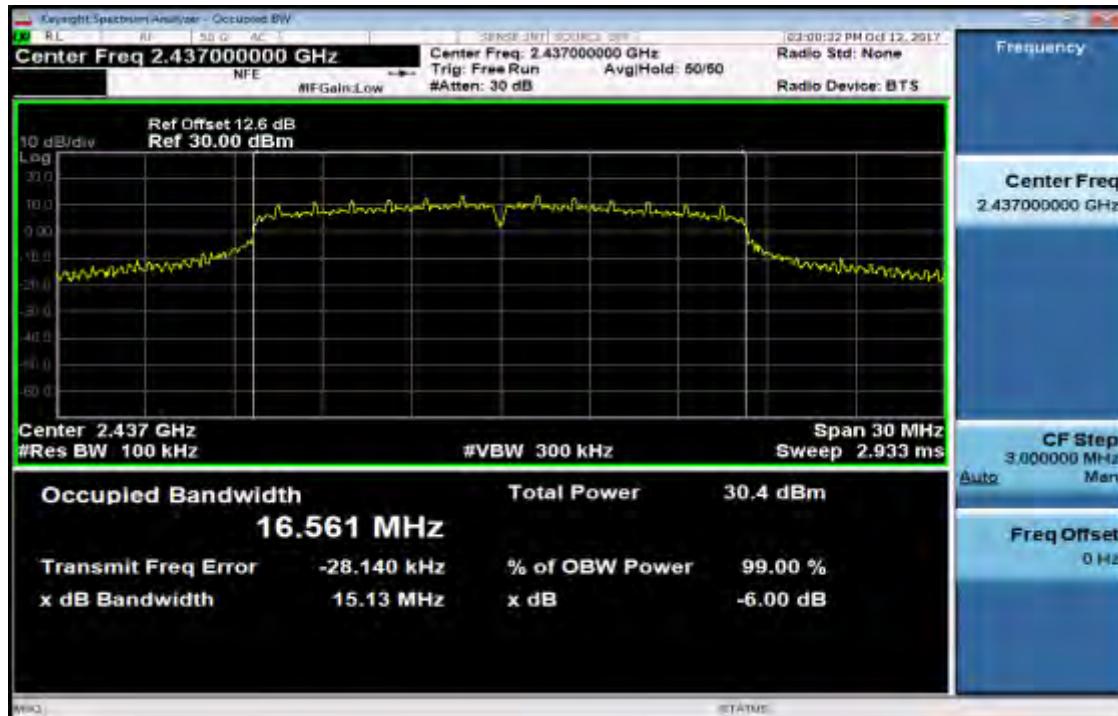


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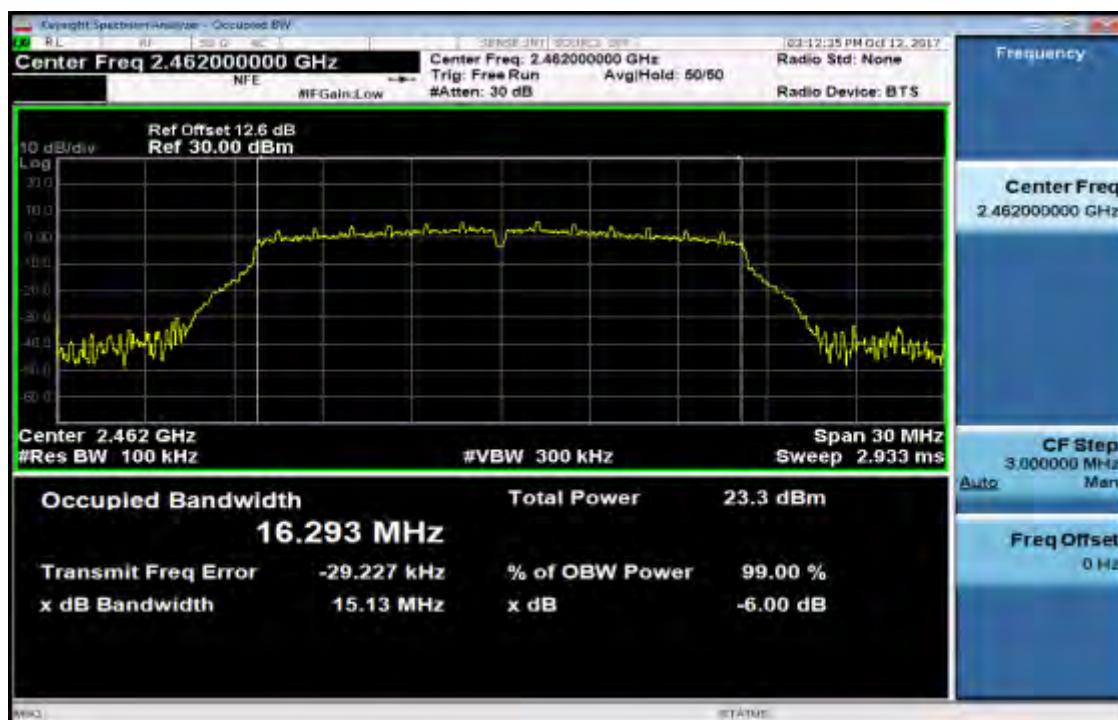
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



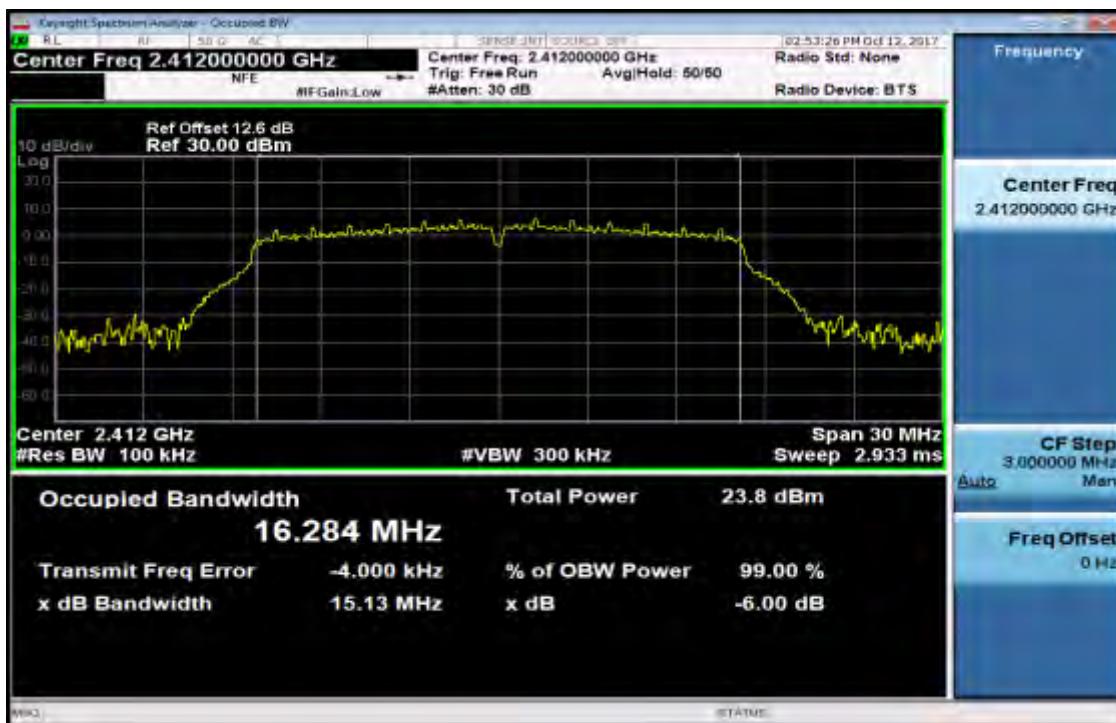
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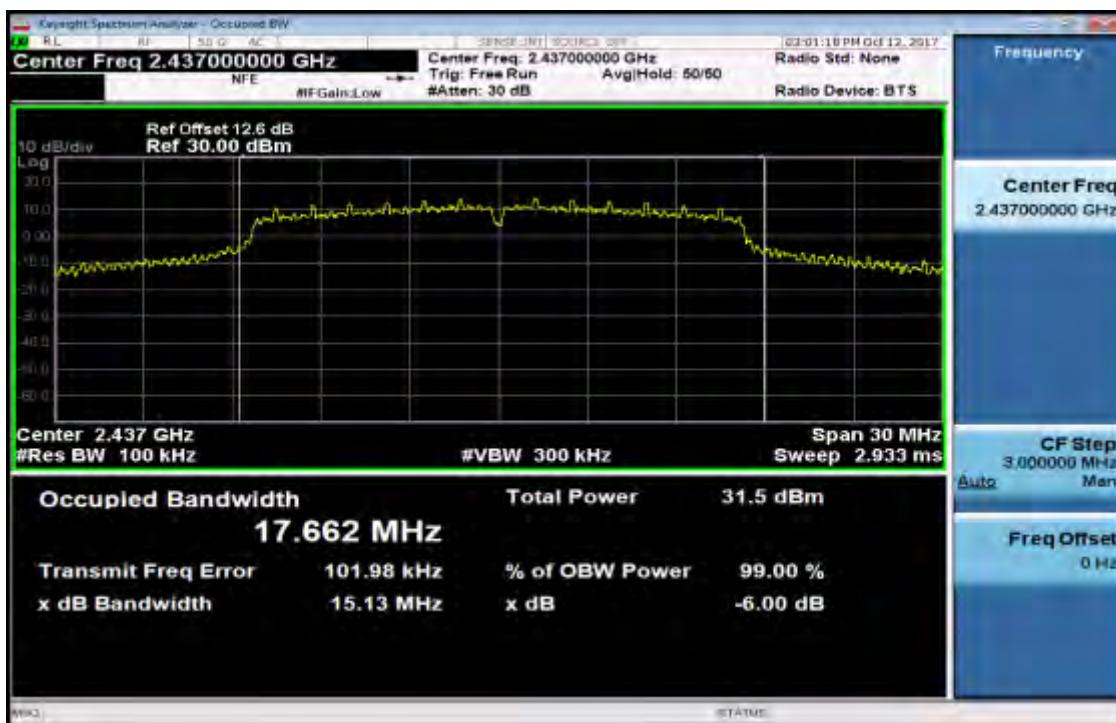
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802.11g (Aux 2)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

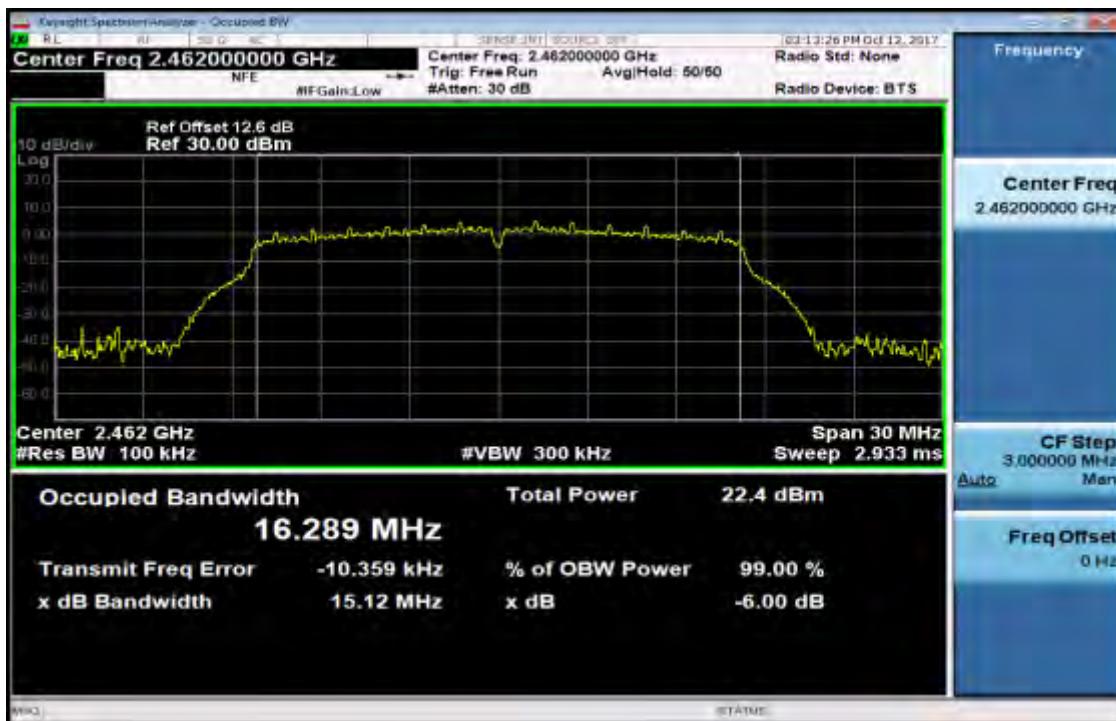


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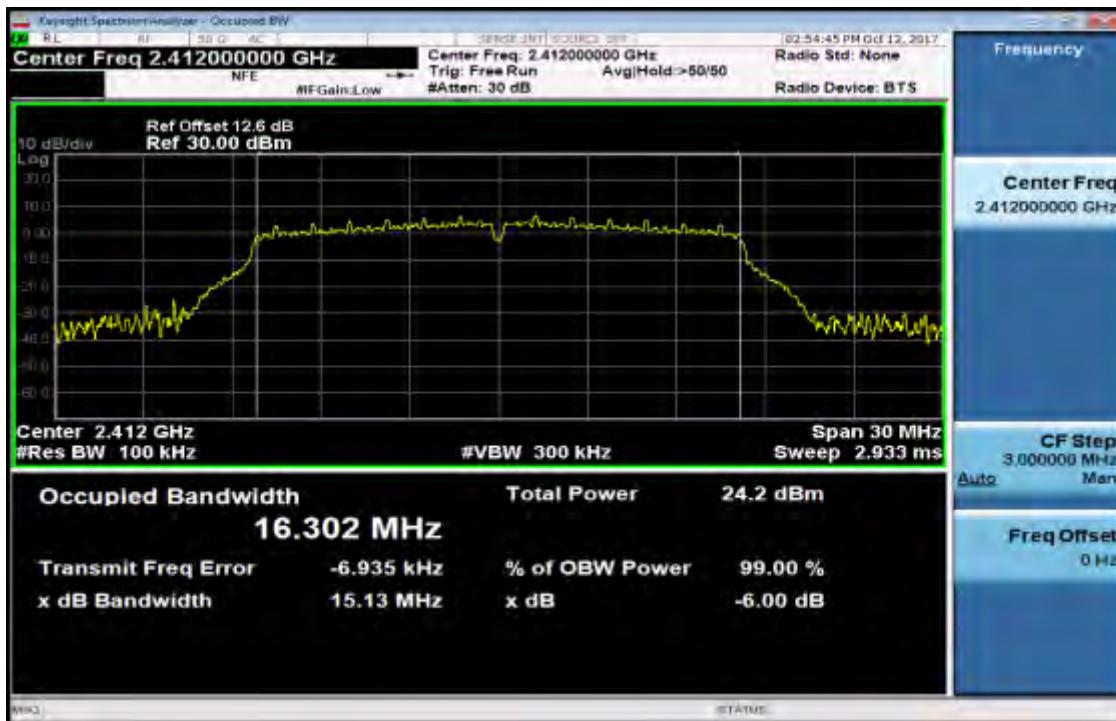
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6dB Band Width Test Data CH-High



802.11g (Aux 3)

6dB Band Width Test Data CH-Low

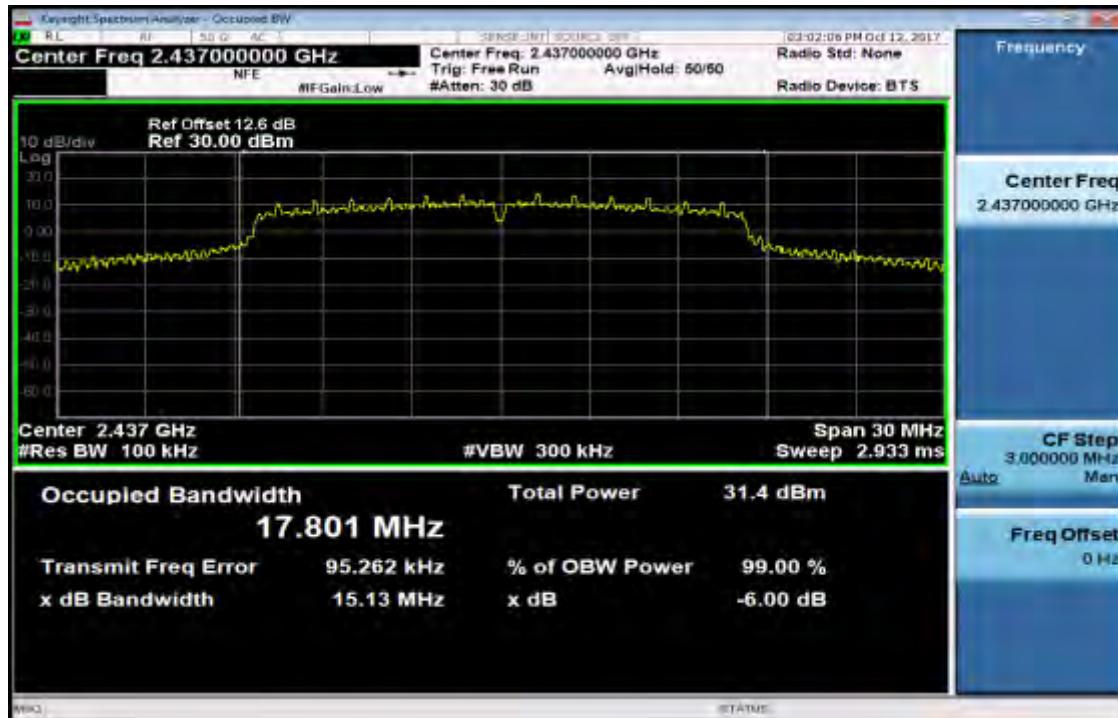


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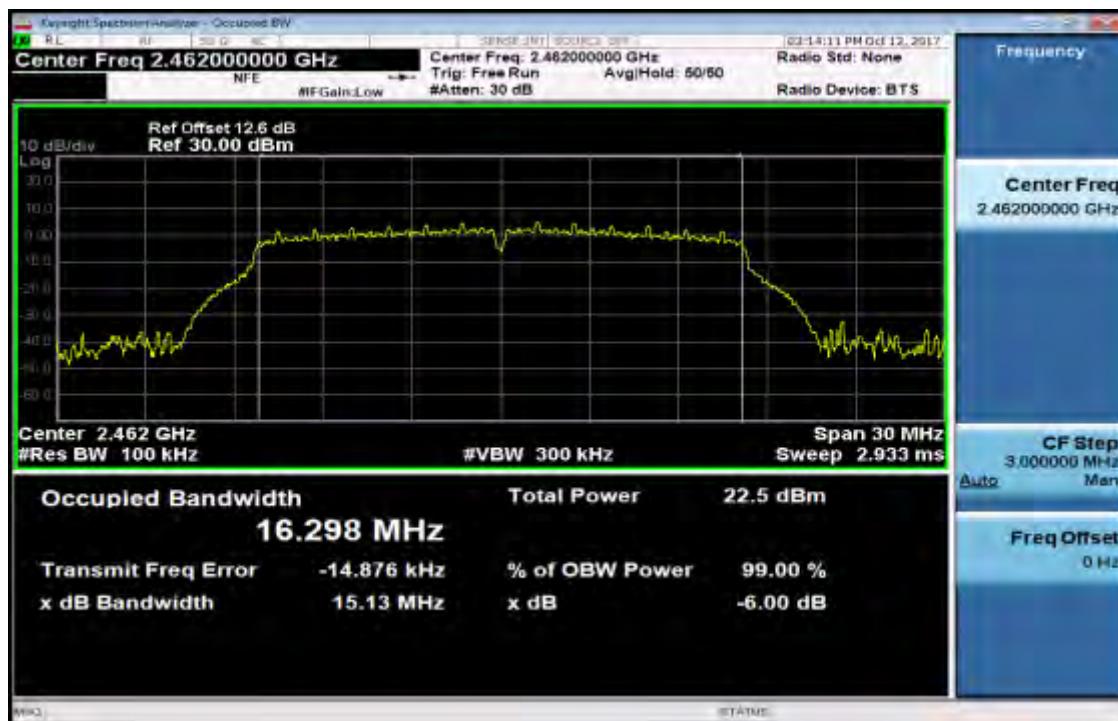
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High

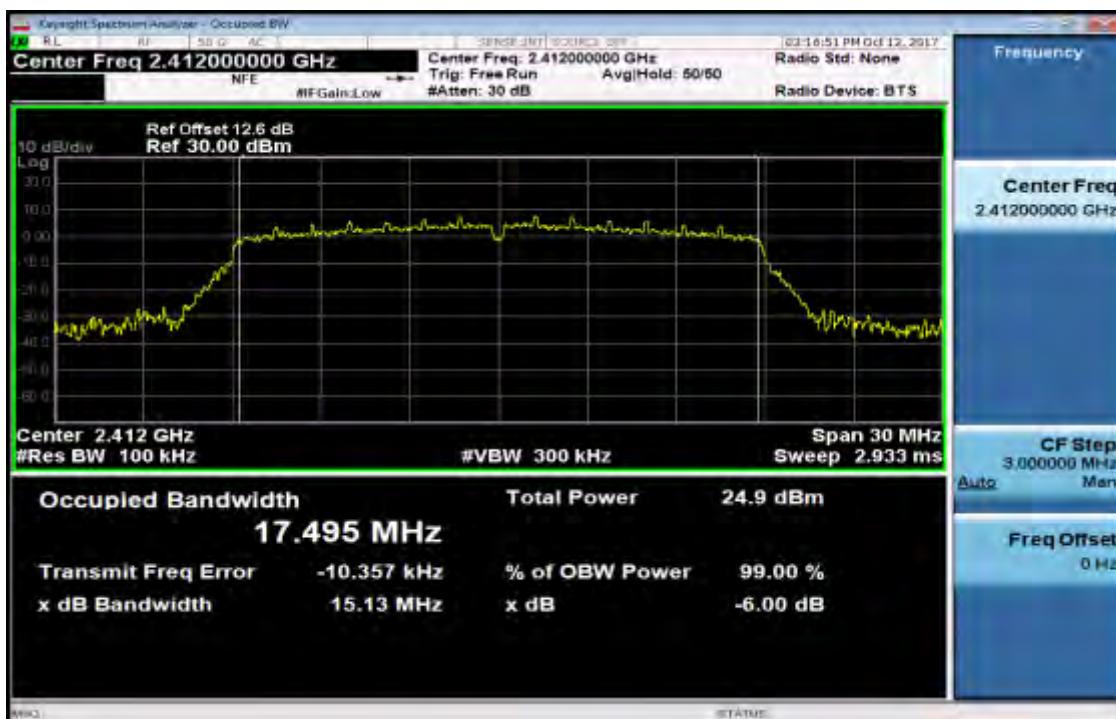


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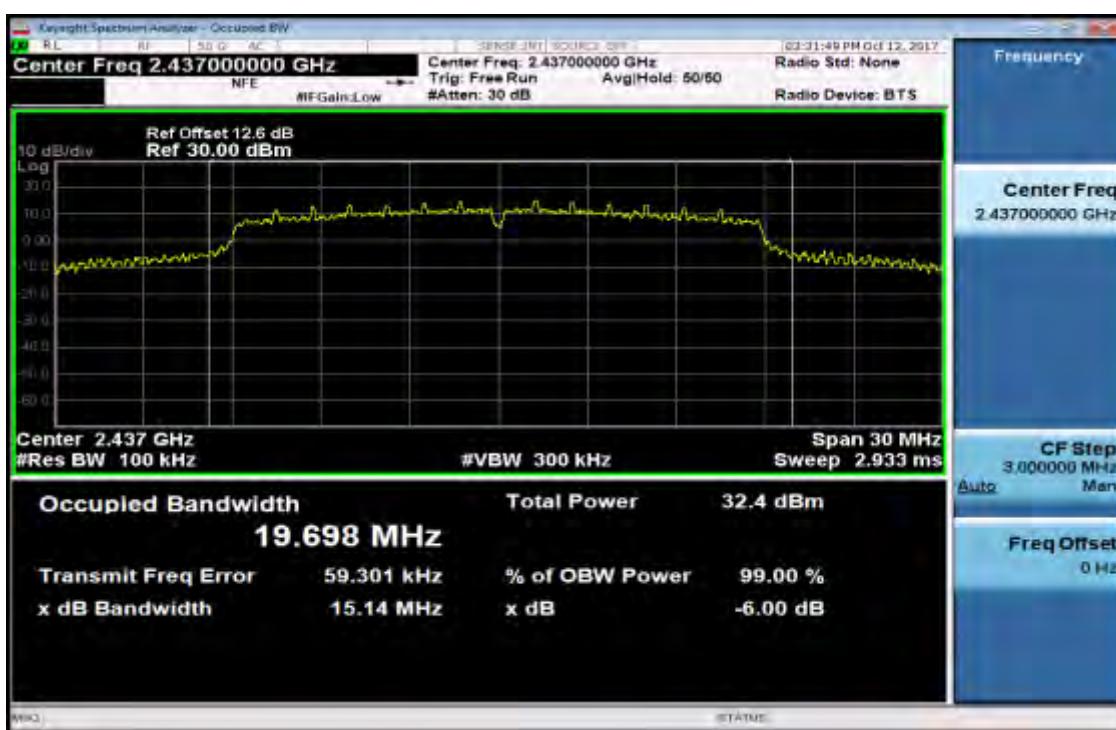
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CDD Mode:
802.11n_20M (Main)
6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

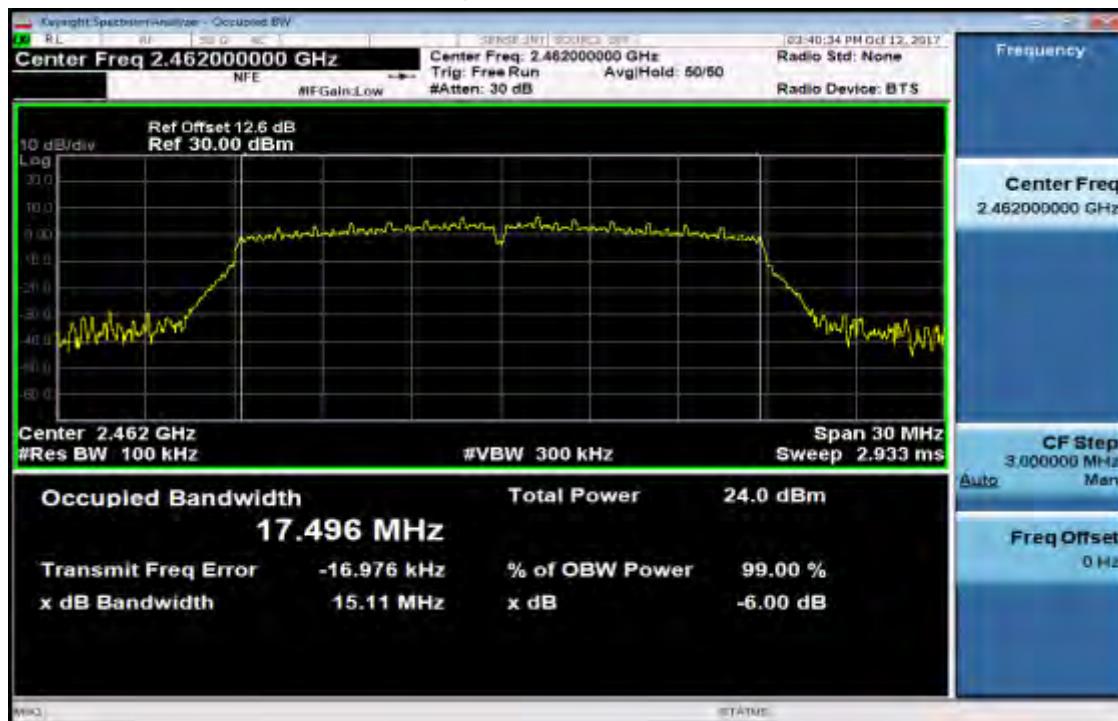


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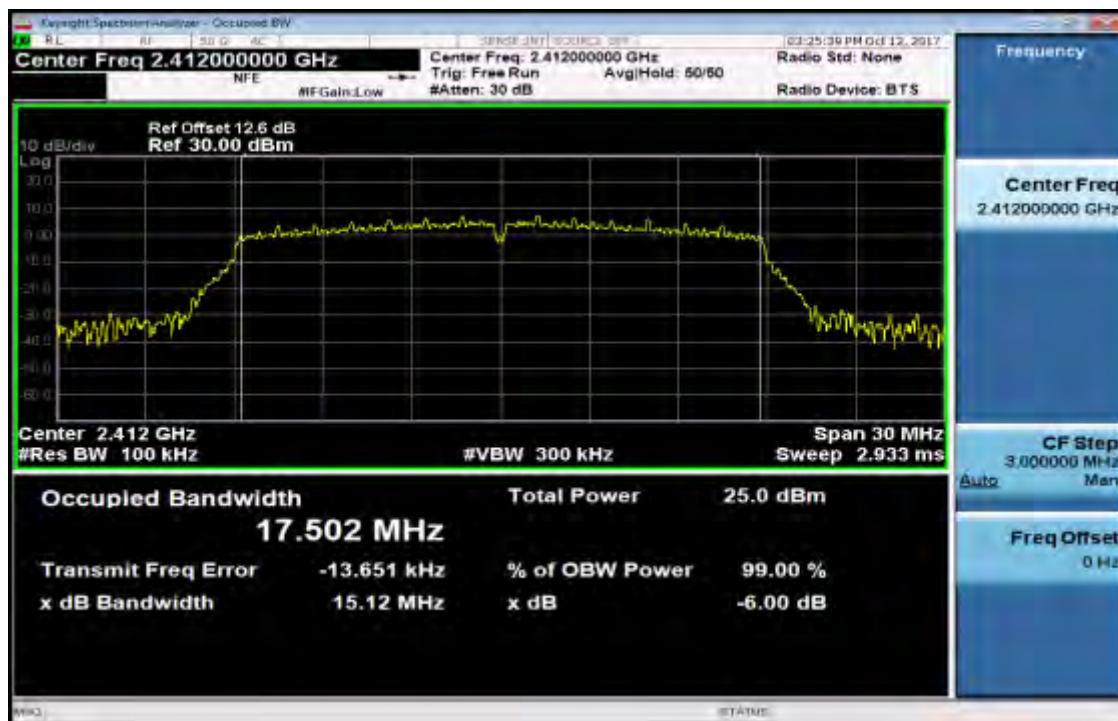
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6dB Band Width Test Data CH-High



802.11n_20M (AUX1)

6dB Band Width Test Data CH-Low



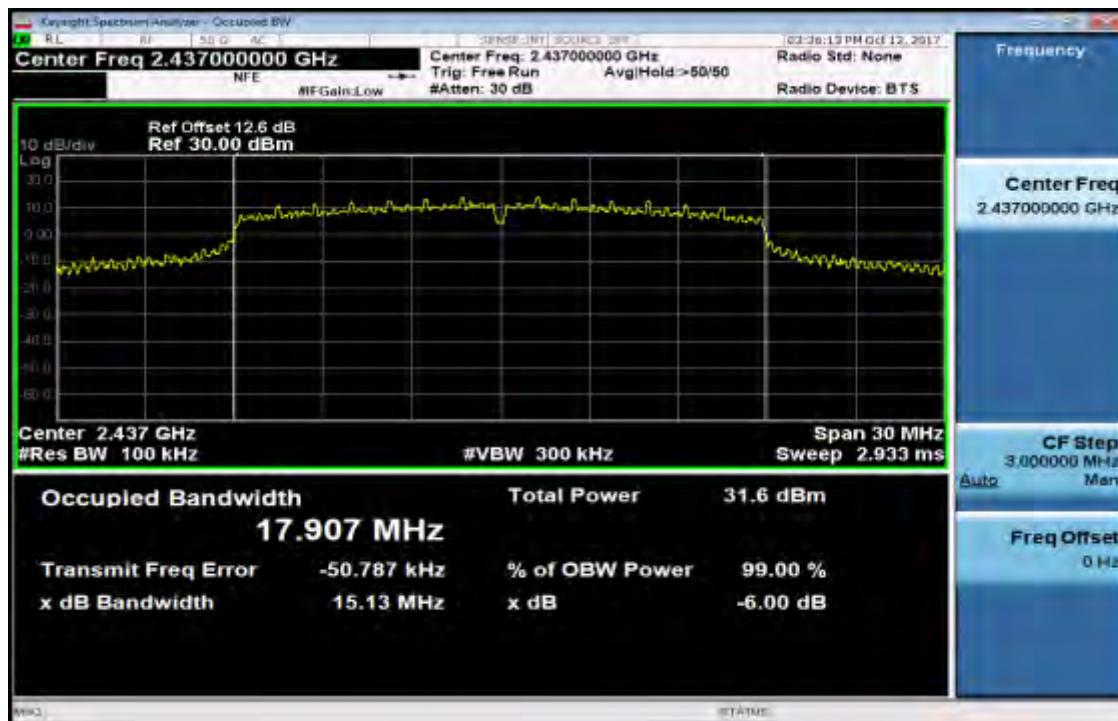
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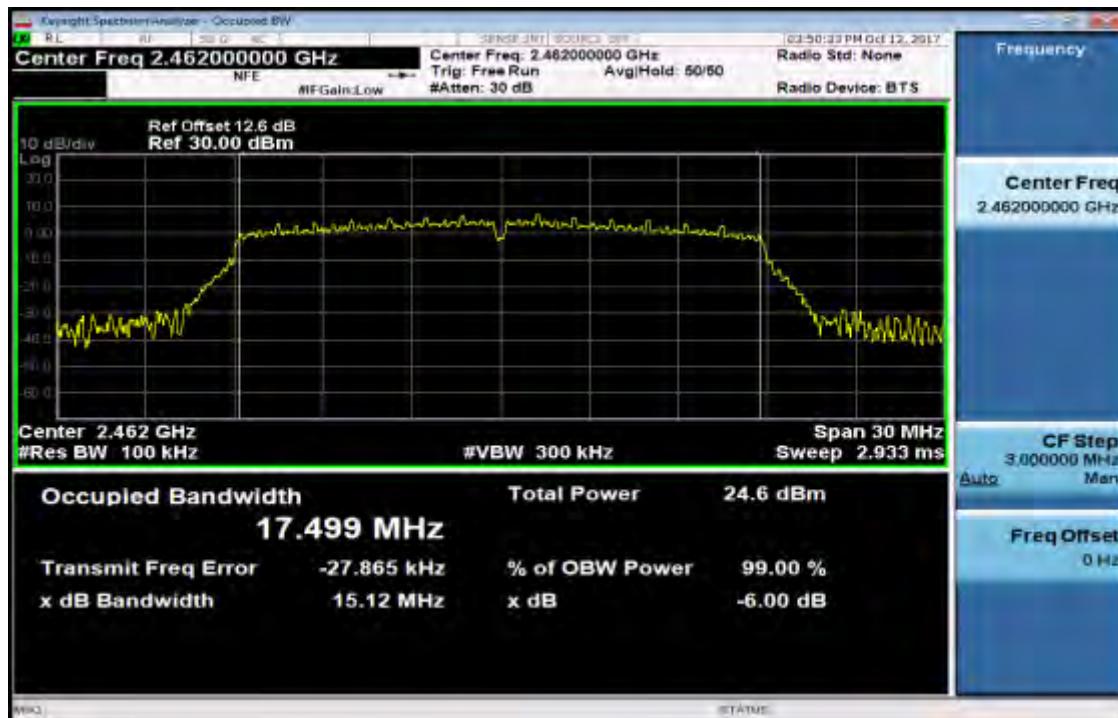
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



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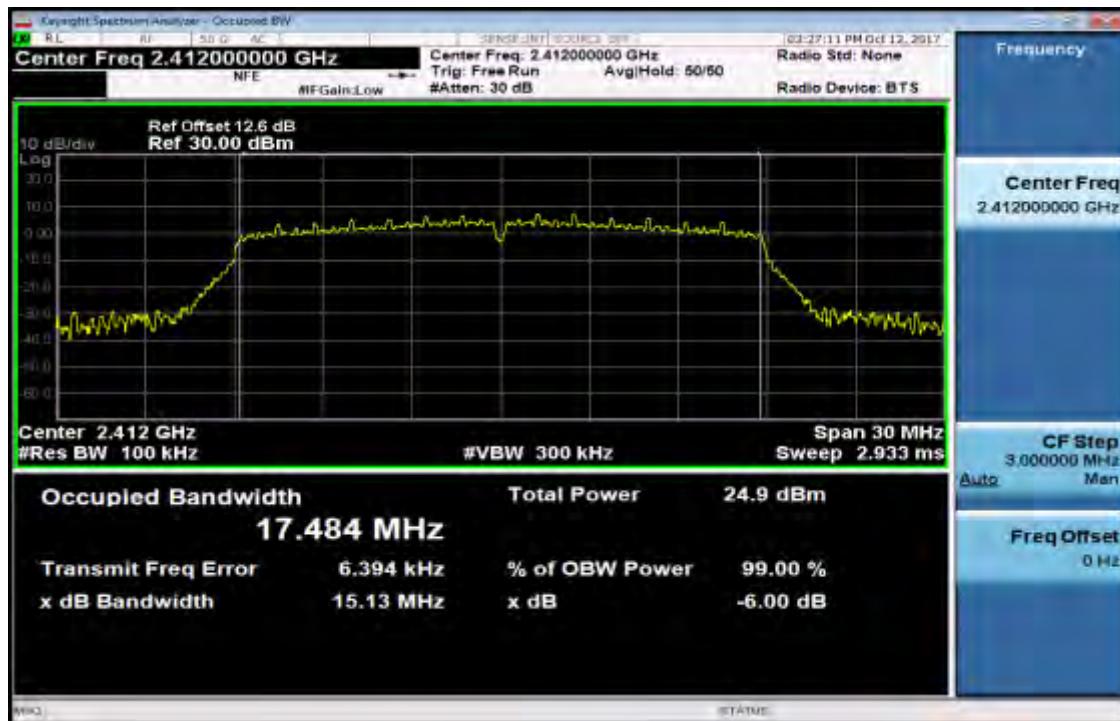
f (886-2) 2298-0488

www.tw.sgs.com

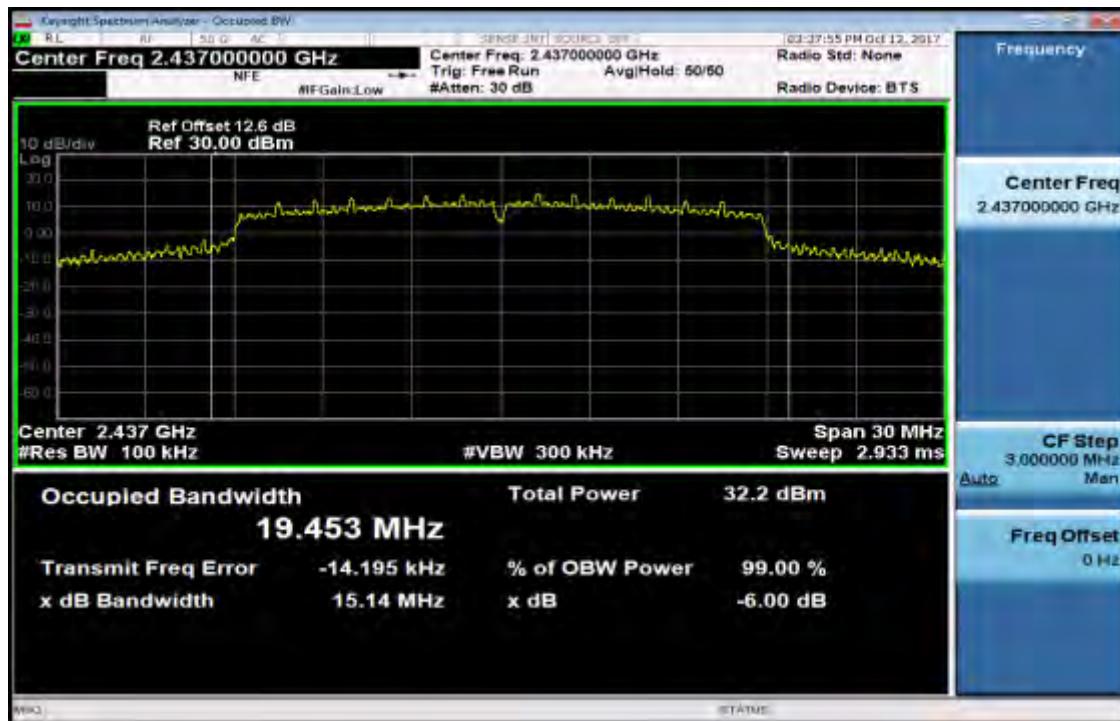
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802.11n_20M (AUX2)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

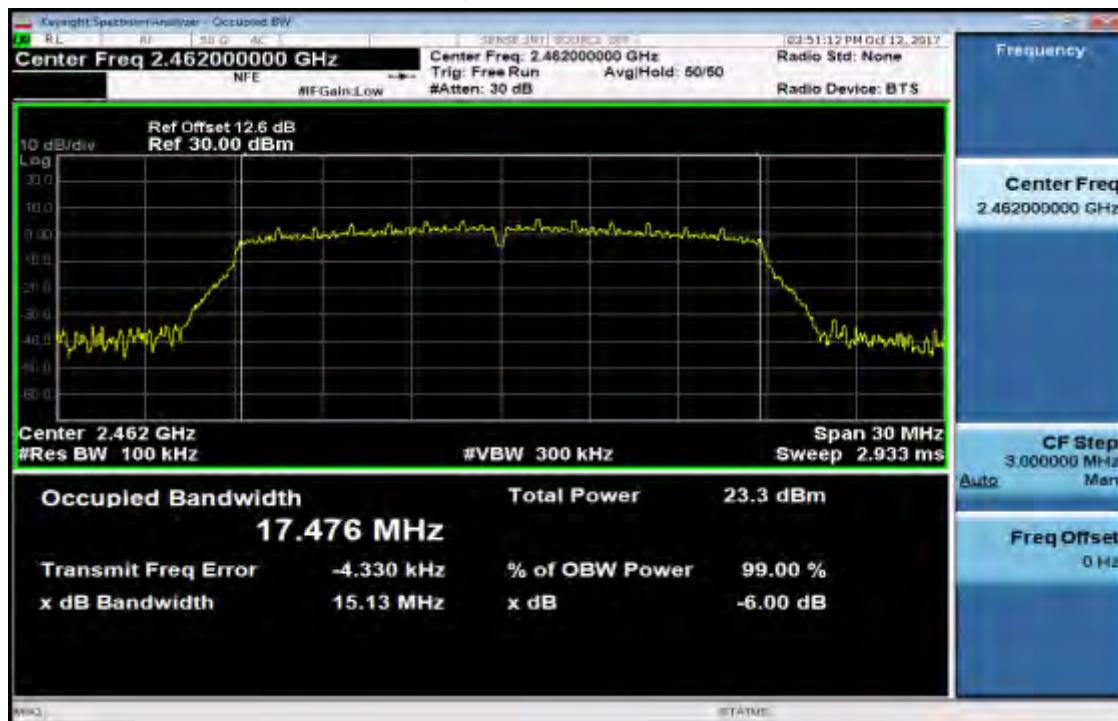


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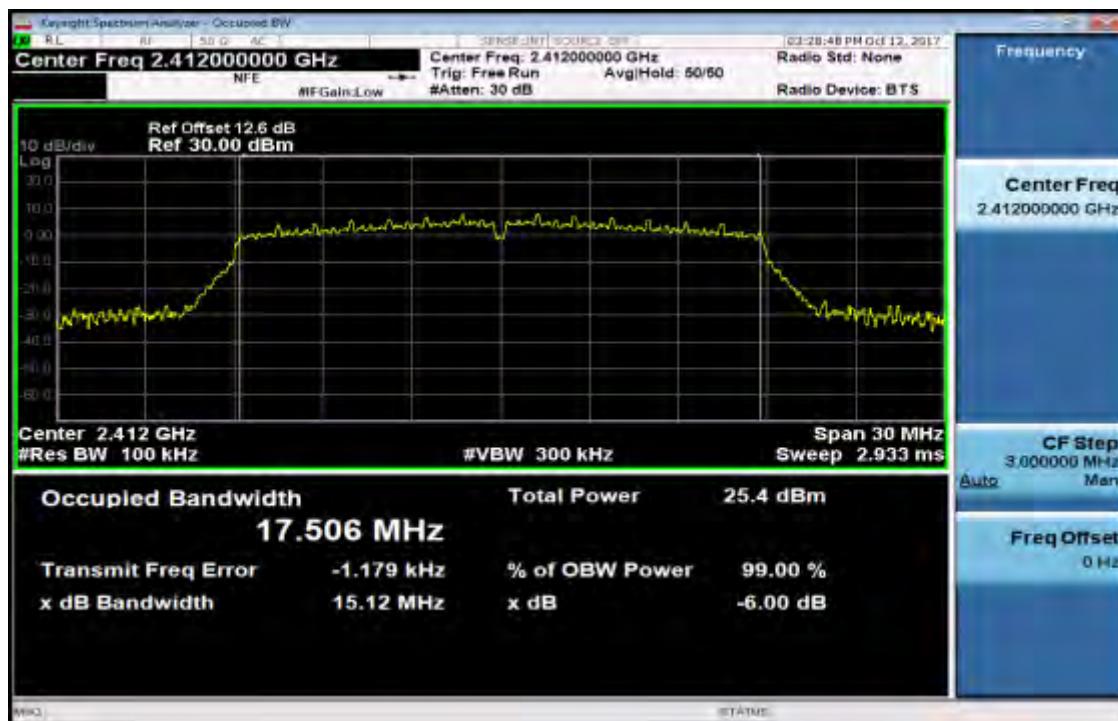
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6dB Band Width Test Data CH-High



802.11n_20M (AUX3)

6dB Band Width Test Data CH-Low



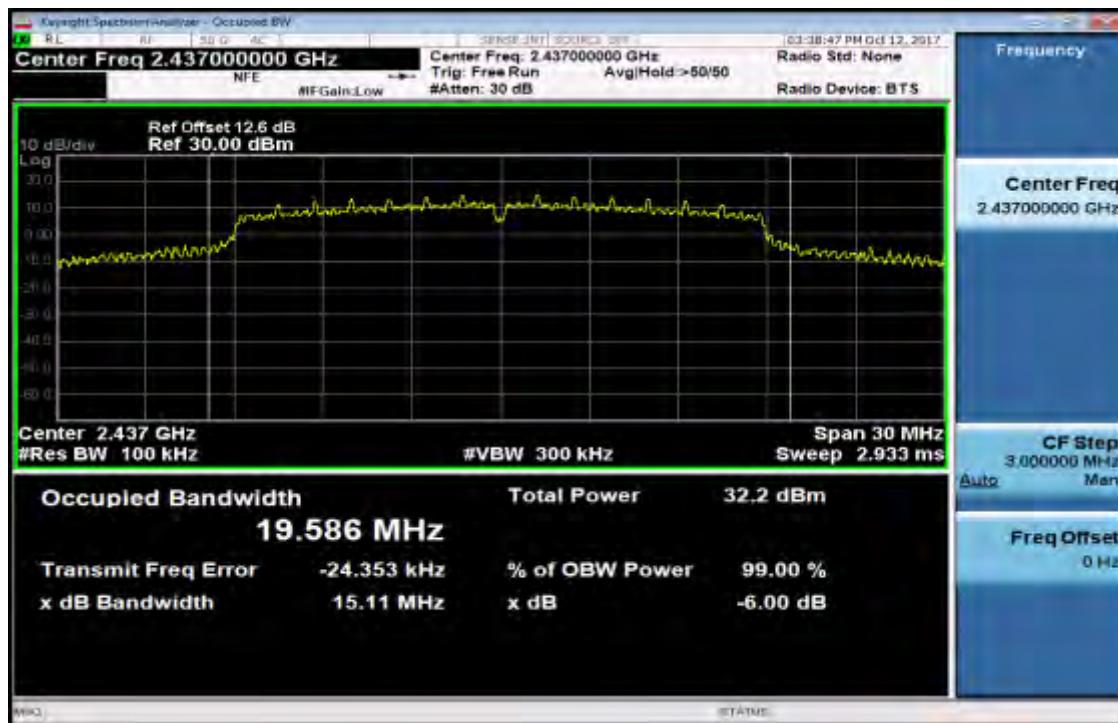
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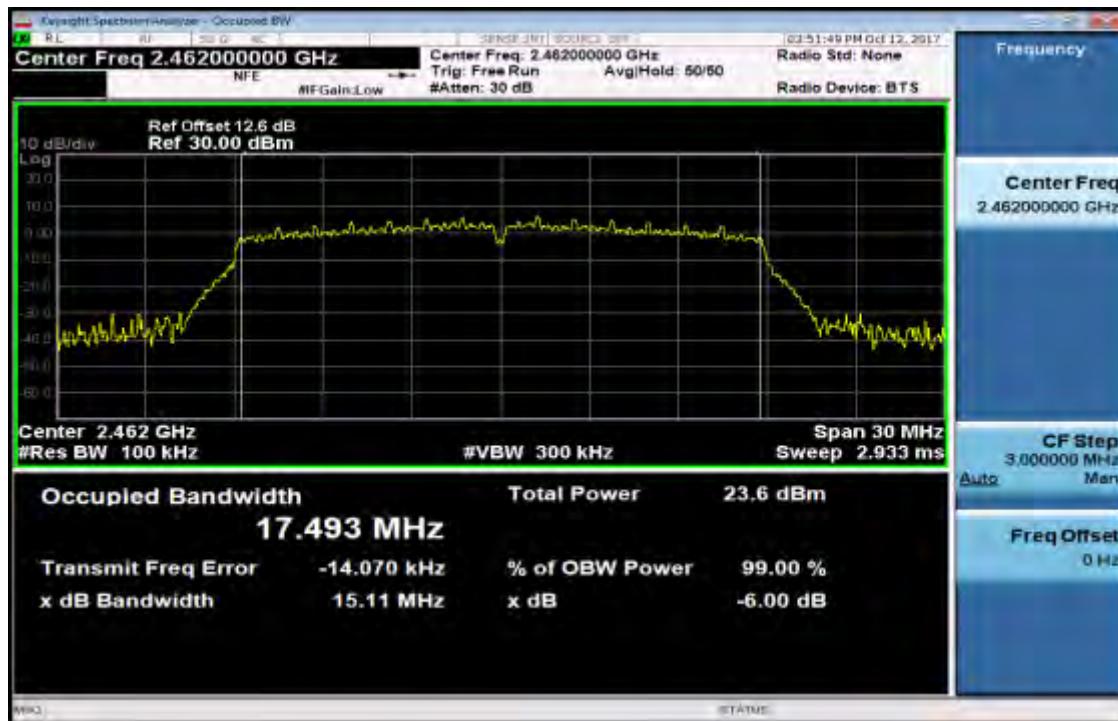
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



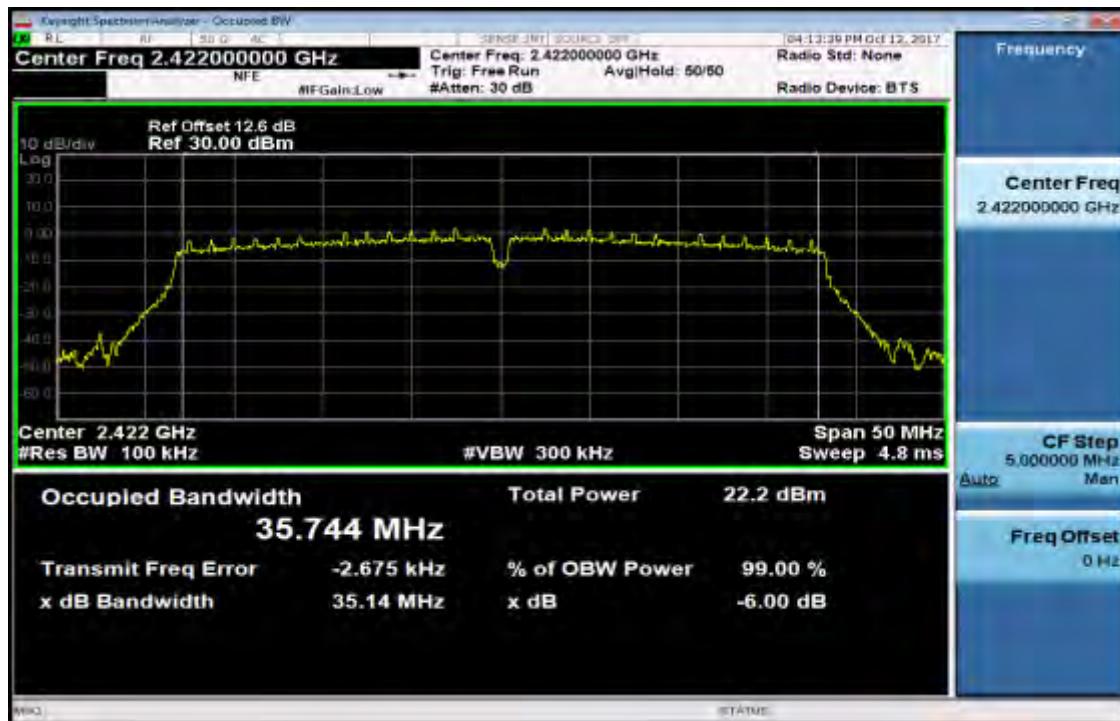
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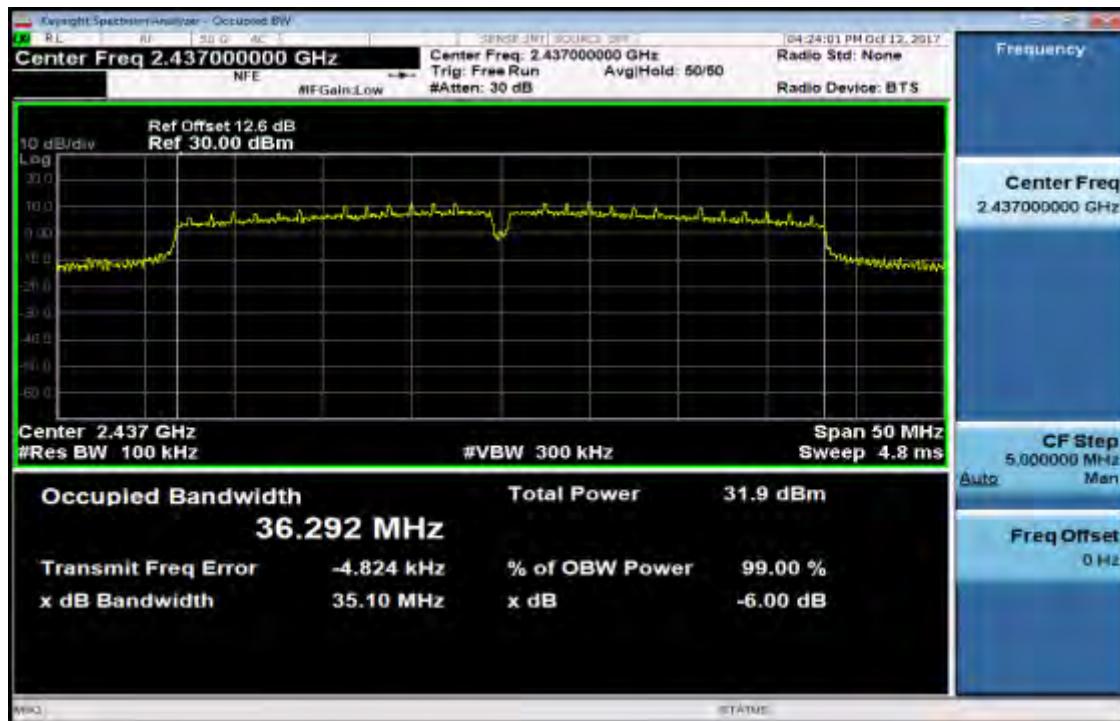
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802.11n_40M (Main)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

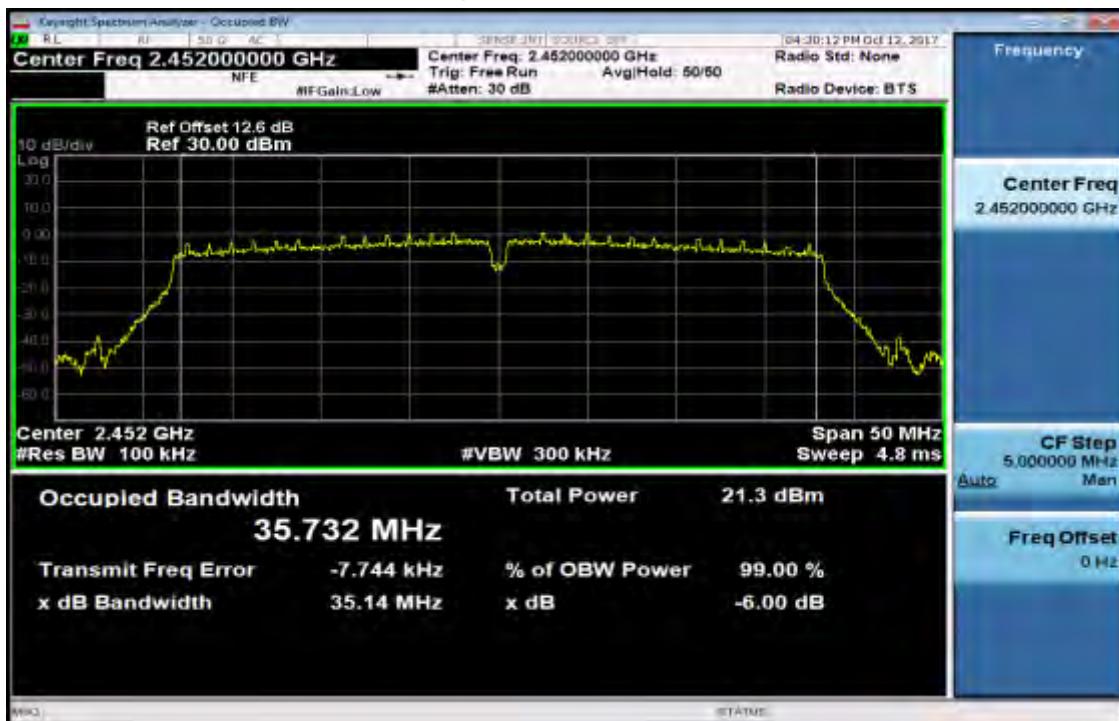


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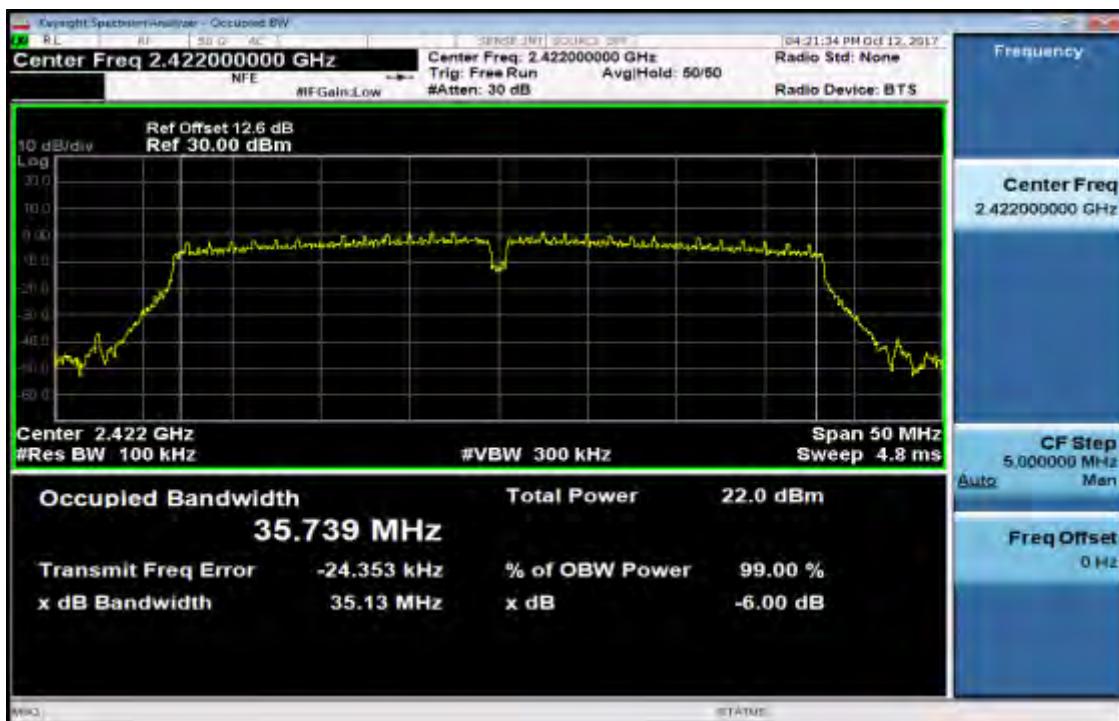
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6dB Band Width Test Data CH-High



802.11n_40M (AUX1)

6dB Band Width Test Data CH-Low



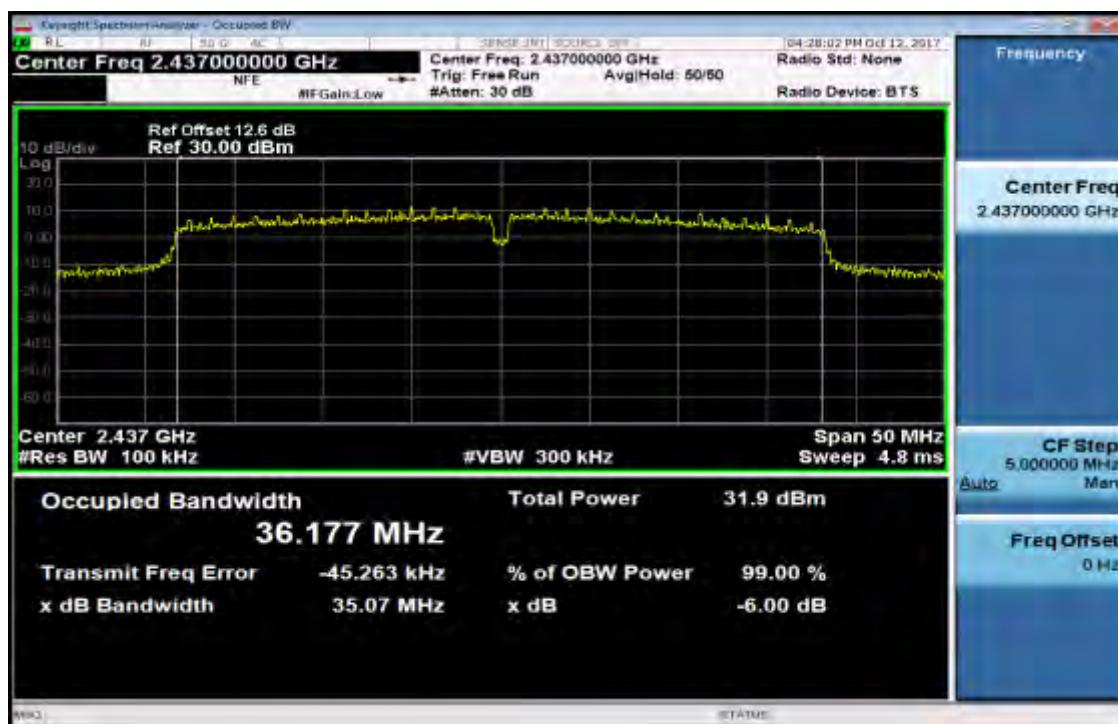
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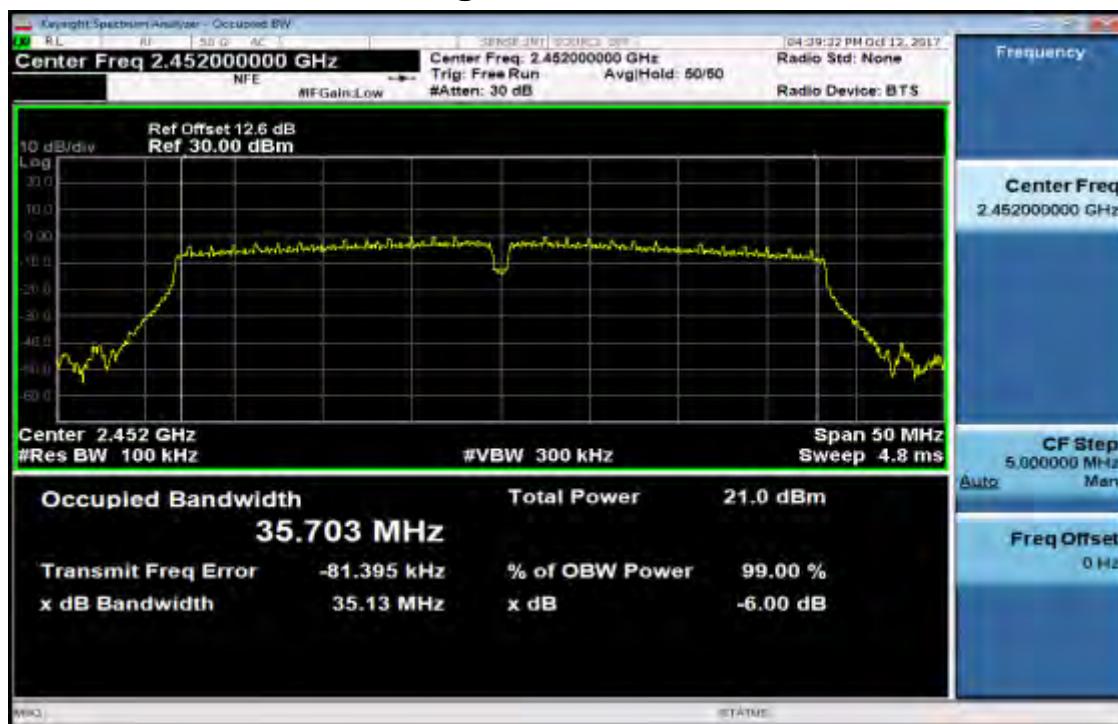
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



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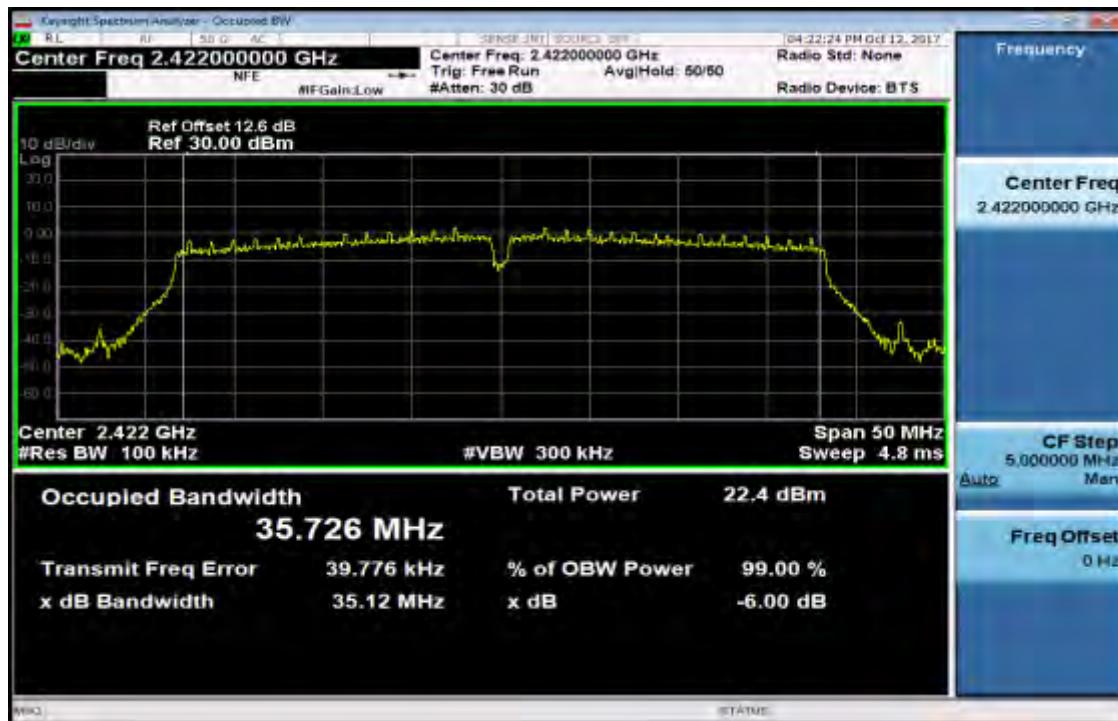
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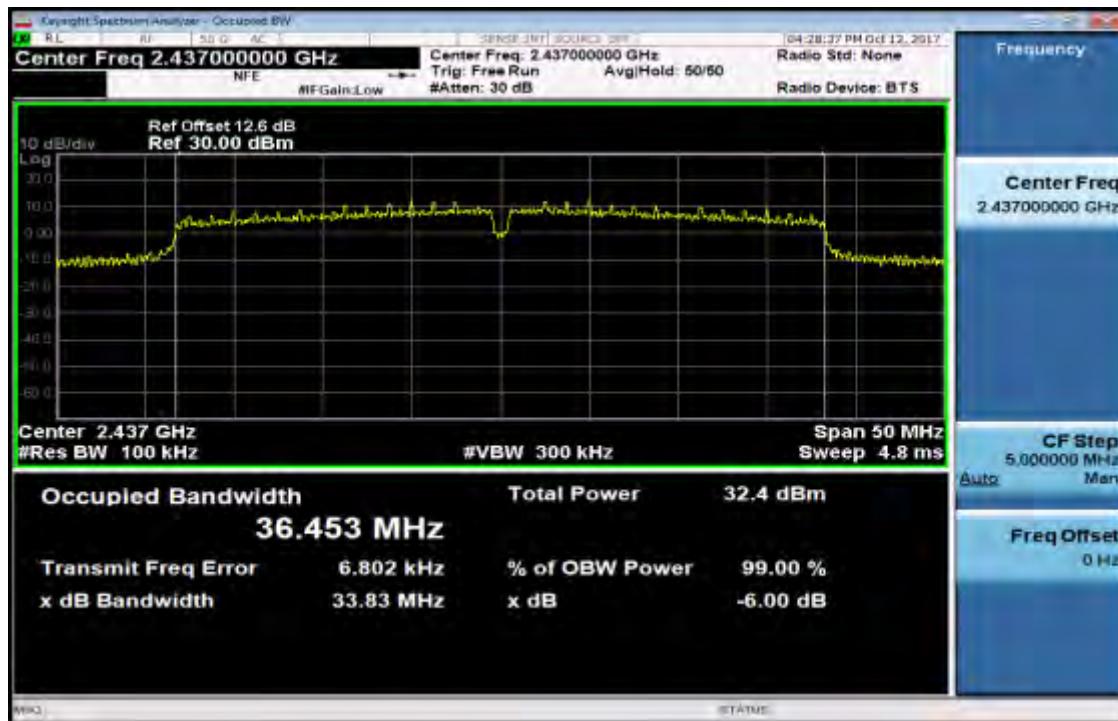
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802.11n_40M (AUX2)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

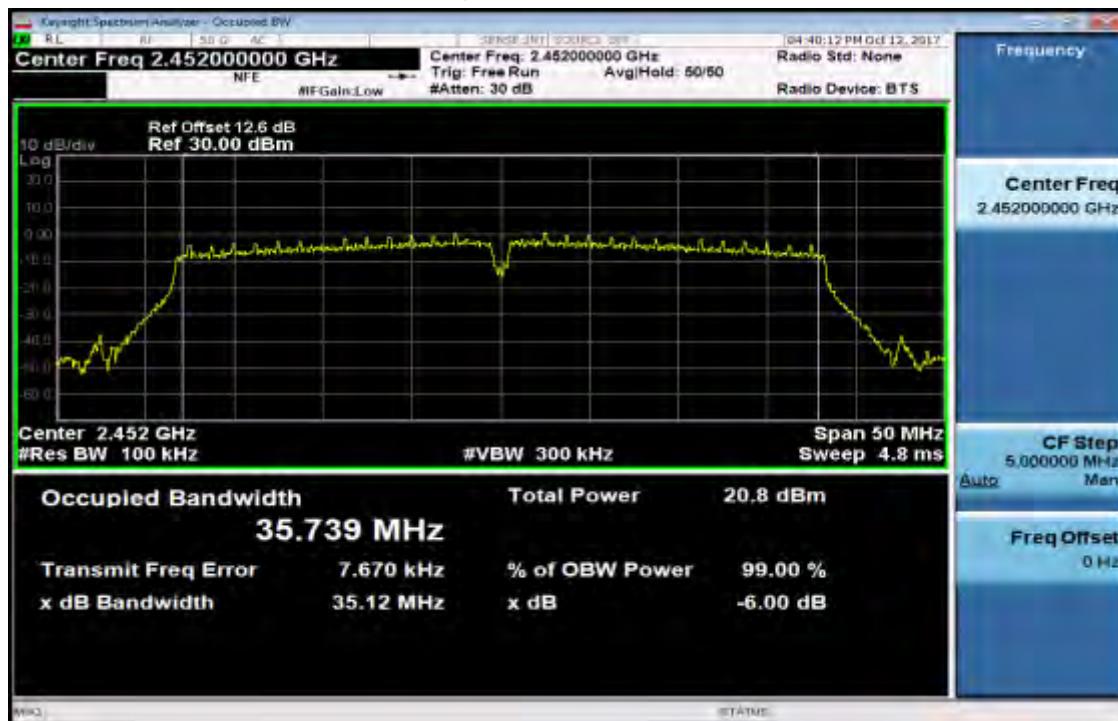


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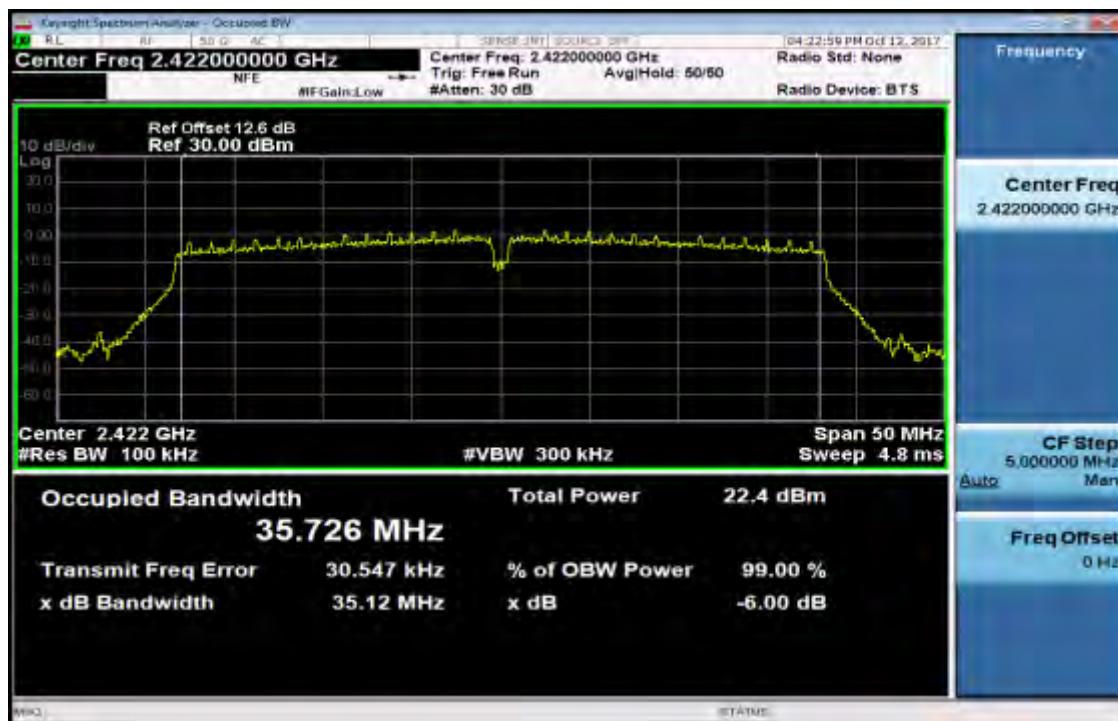
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6dB Band Width Test Data CH-High



802.11n_40M (AUX3)

6dB Band Width Test Data CH-Low



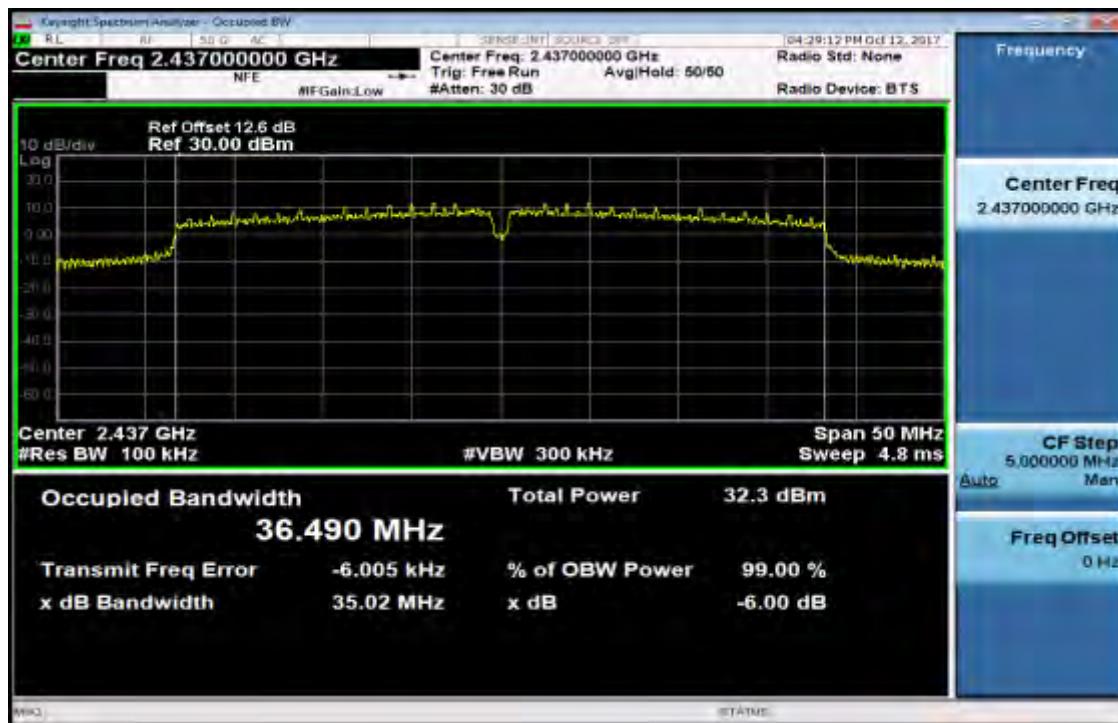
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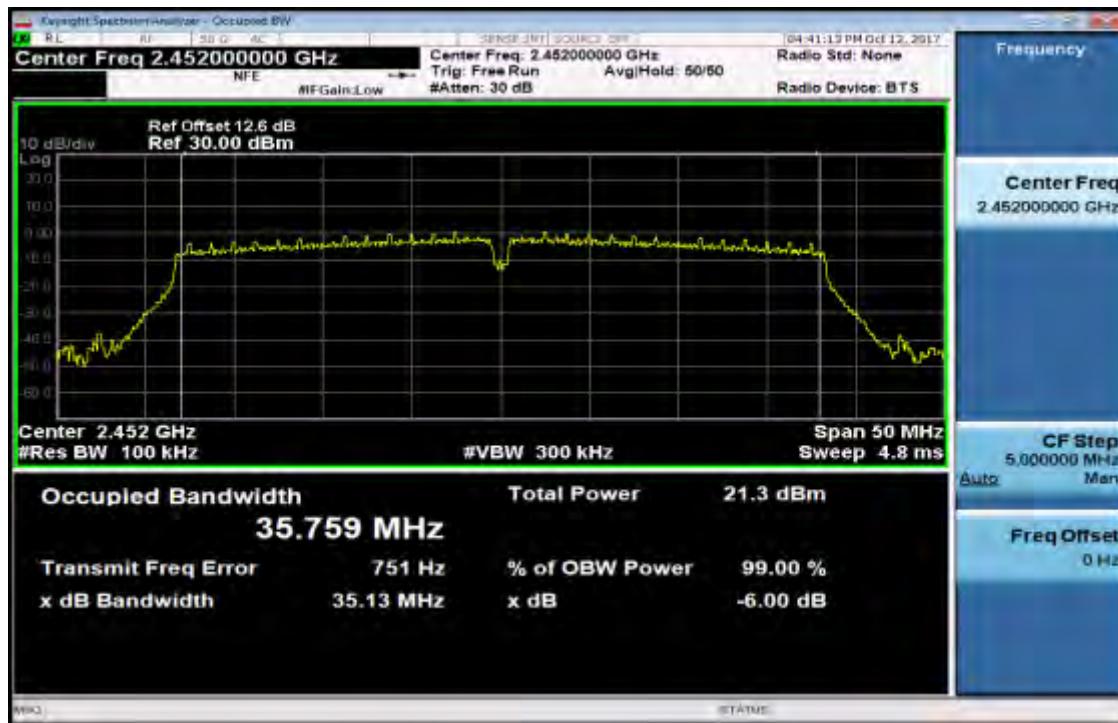
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High

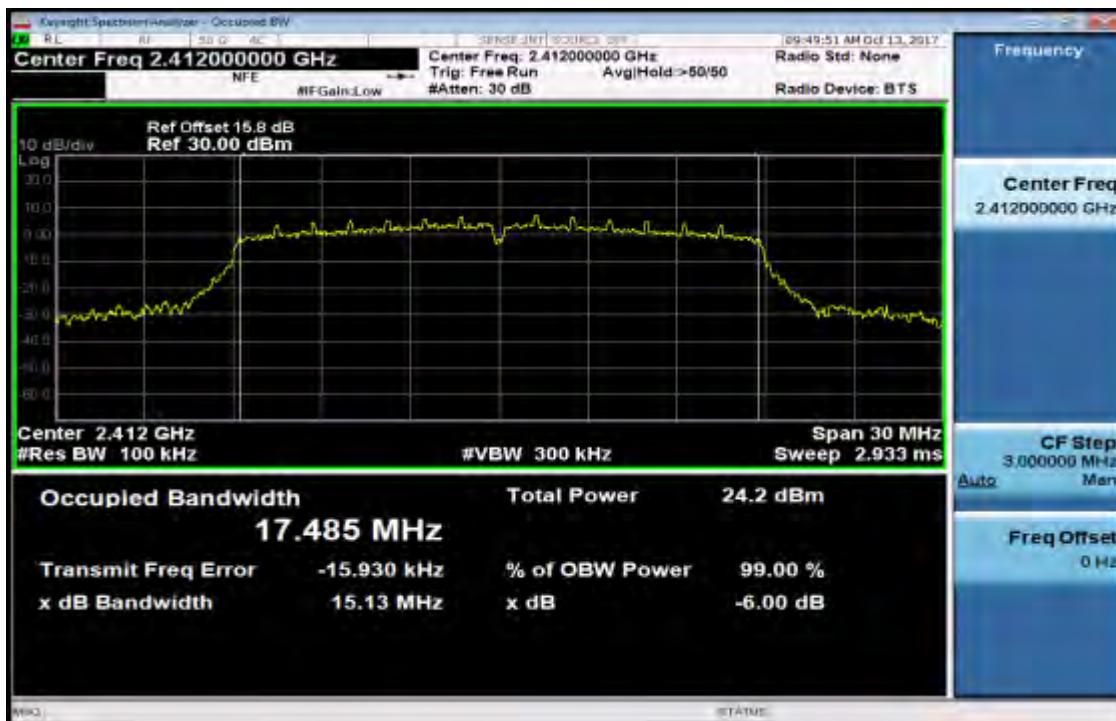


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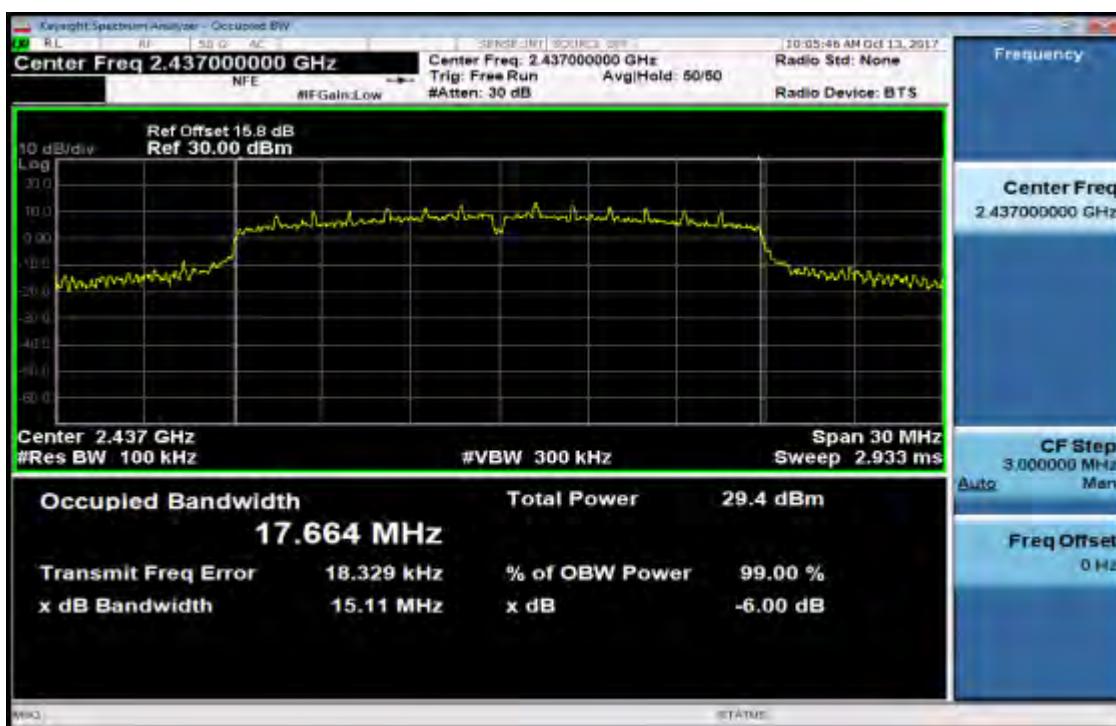
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Beam Forming Mode
802.11n_20M (Main)
6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

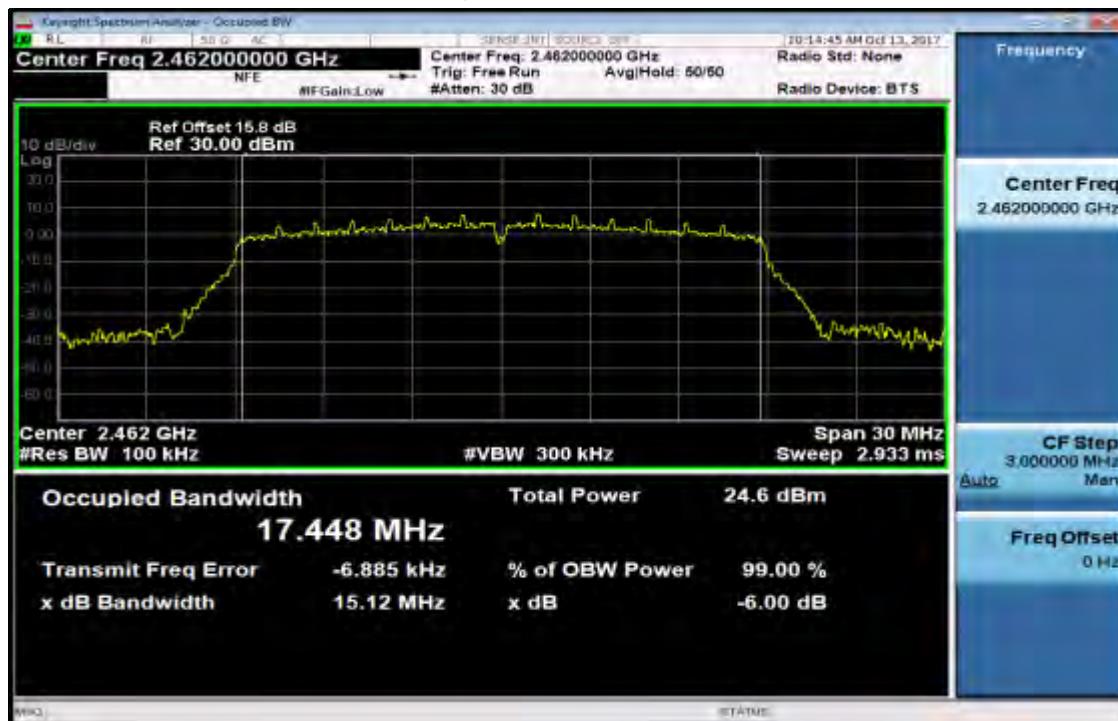


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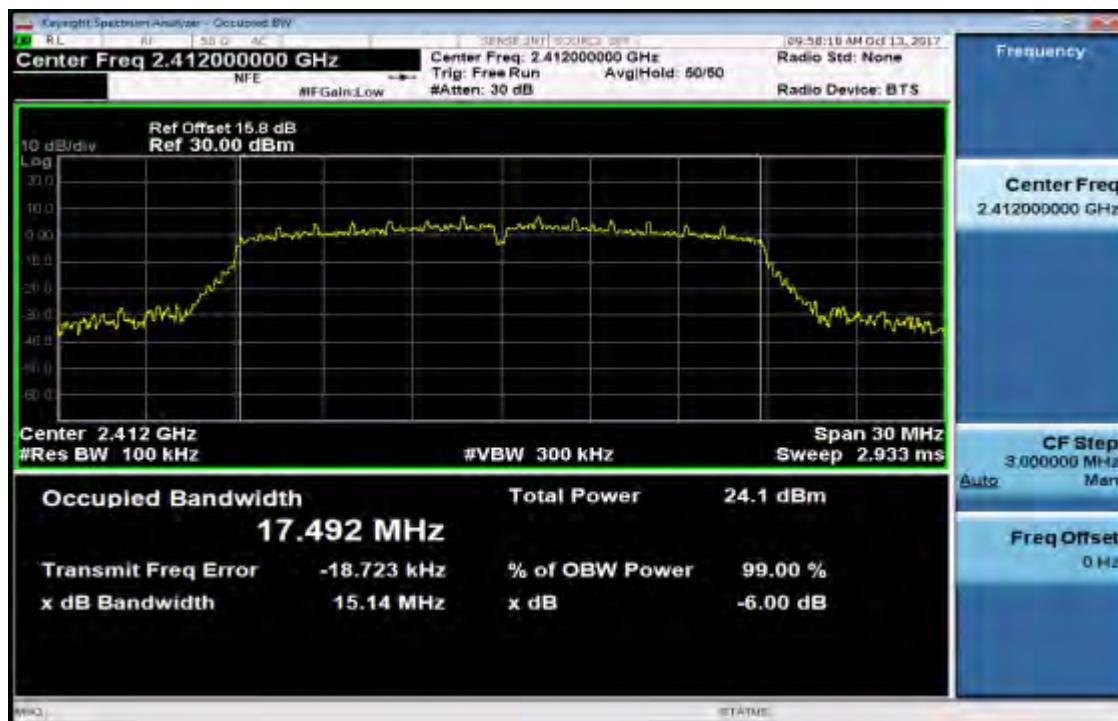
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6dB Band Width Test Data CH-High



802.11n_20M (AUX1)

6dB Band Width Test Data CH-Low

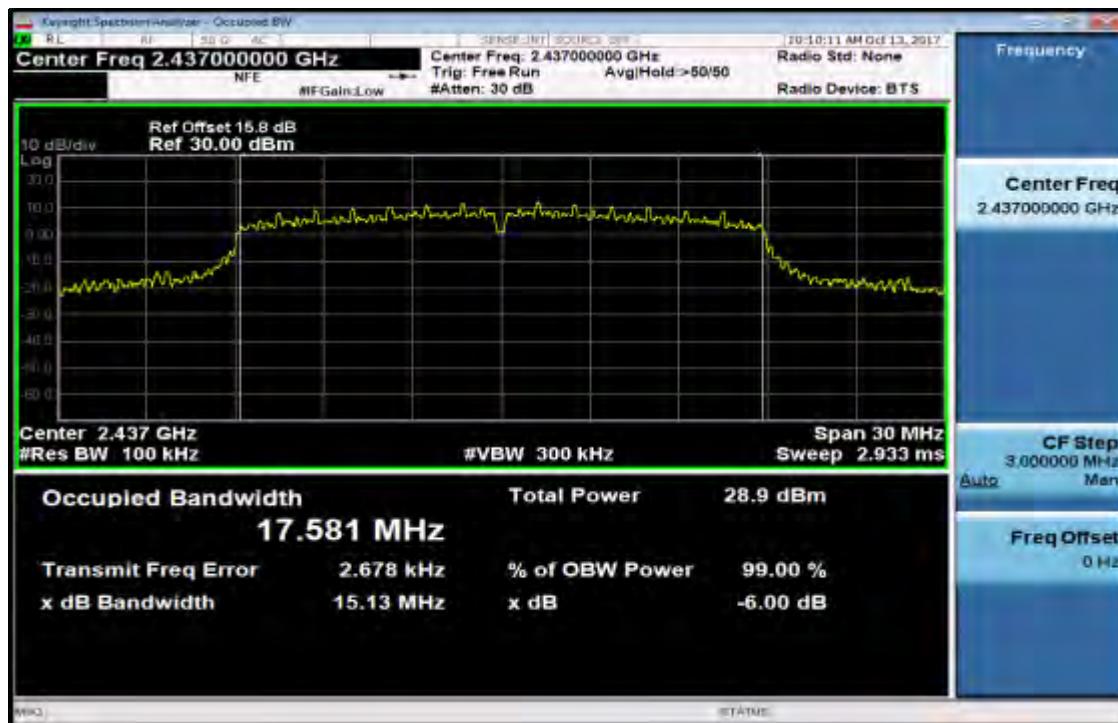


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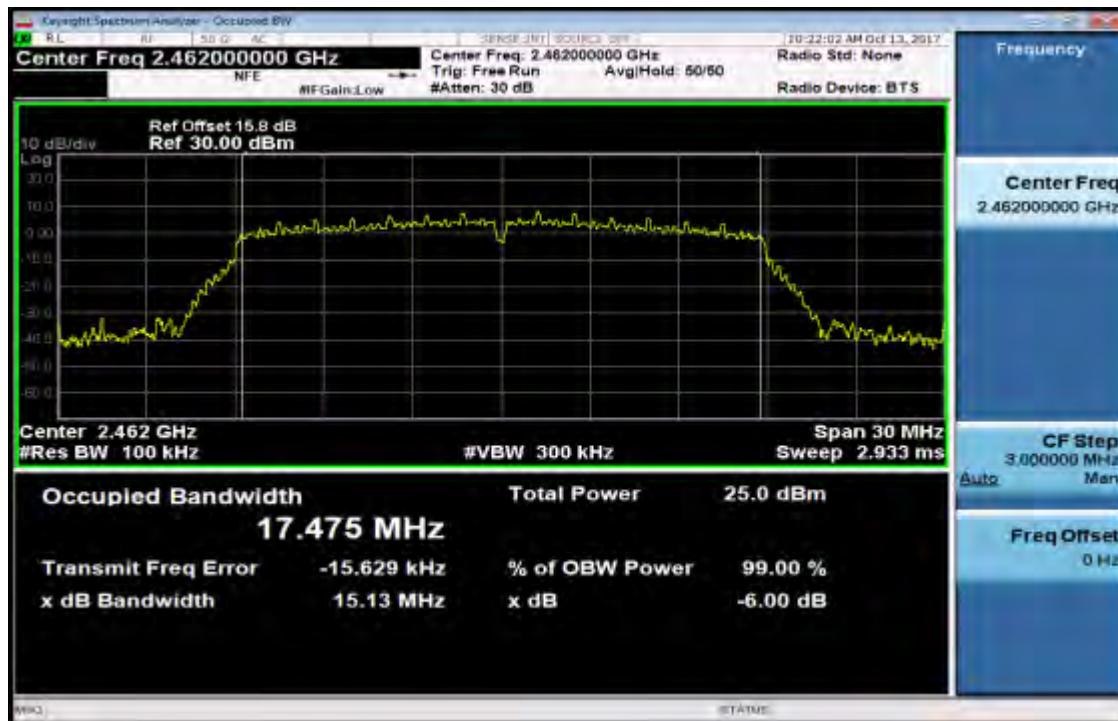
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



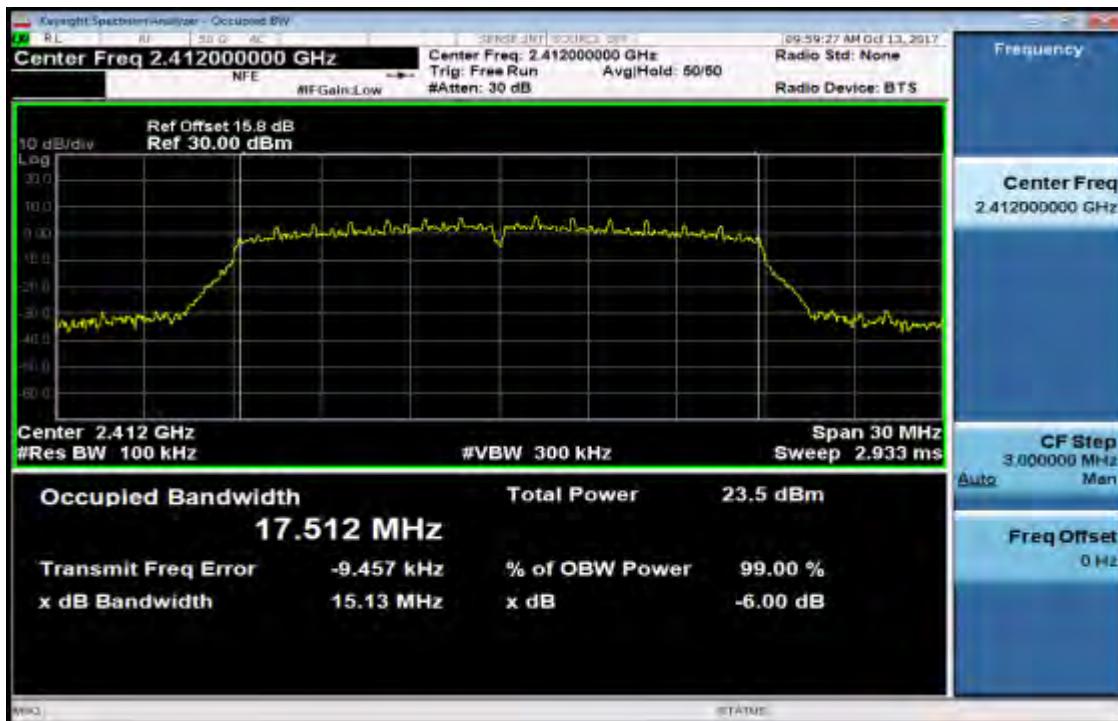
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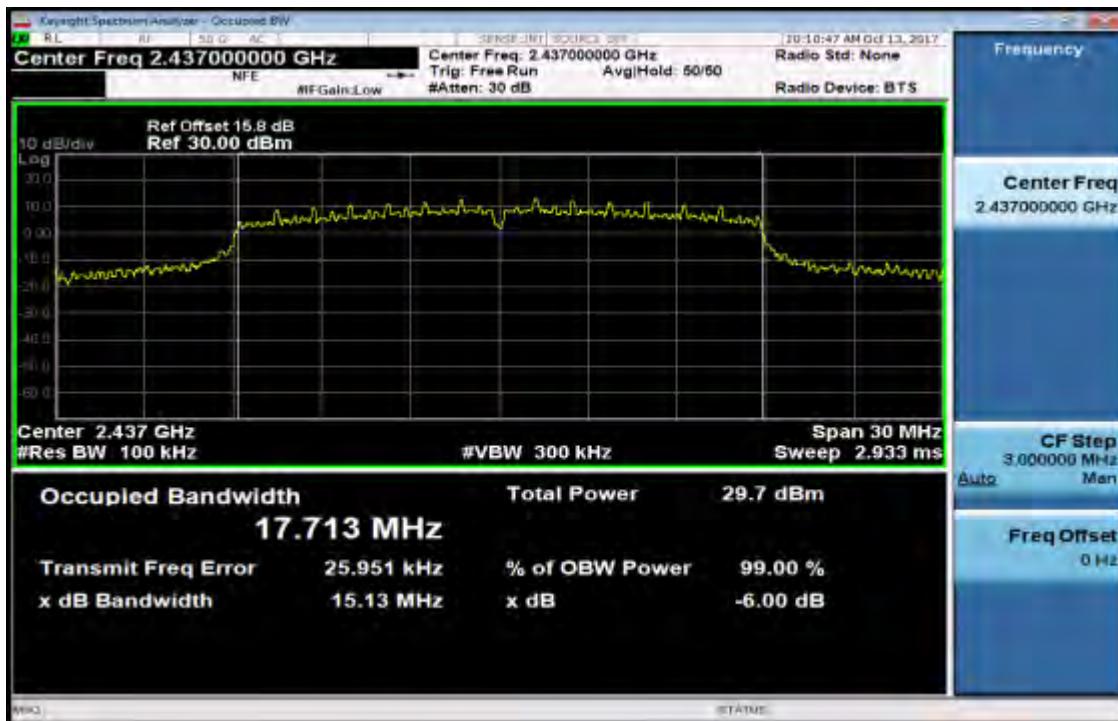
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802.11n_20M (AUX2)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

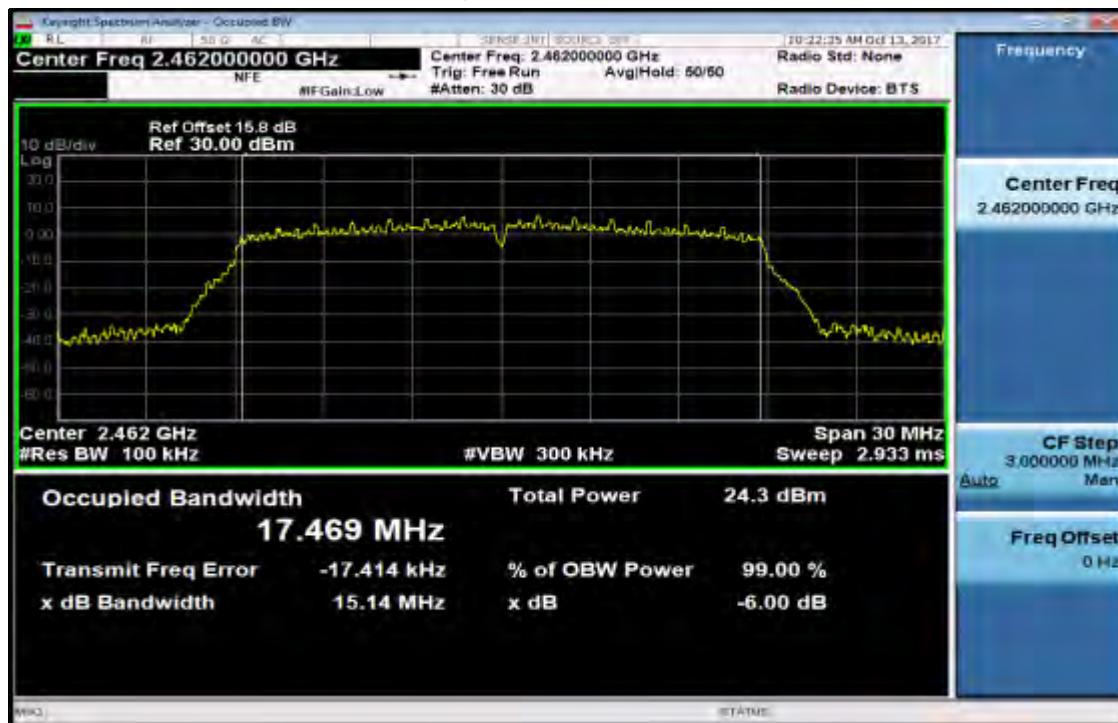


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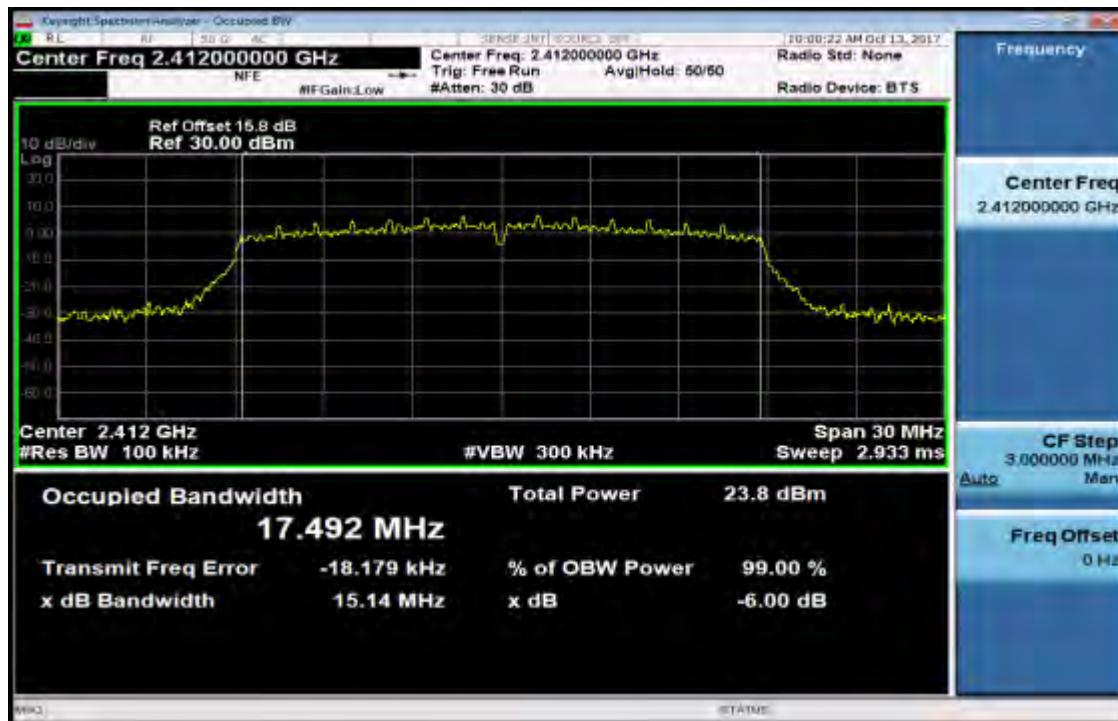
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6dB Band Width Test Data CH-High



802.11n_20M (AUX3)

6dB Band Width Test Data CH-Low

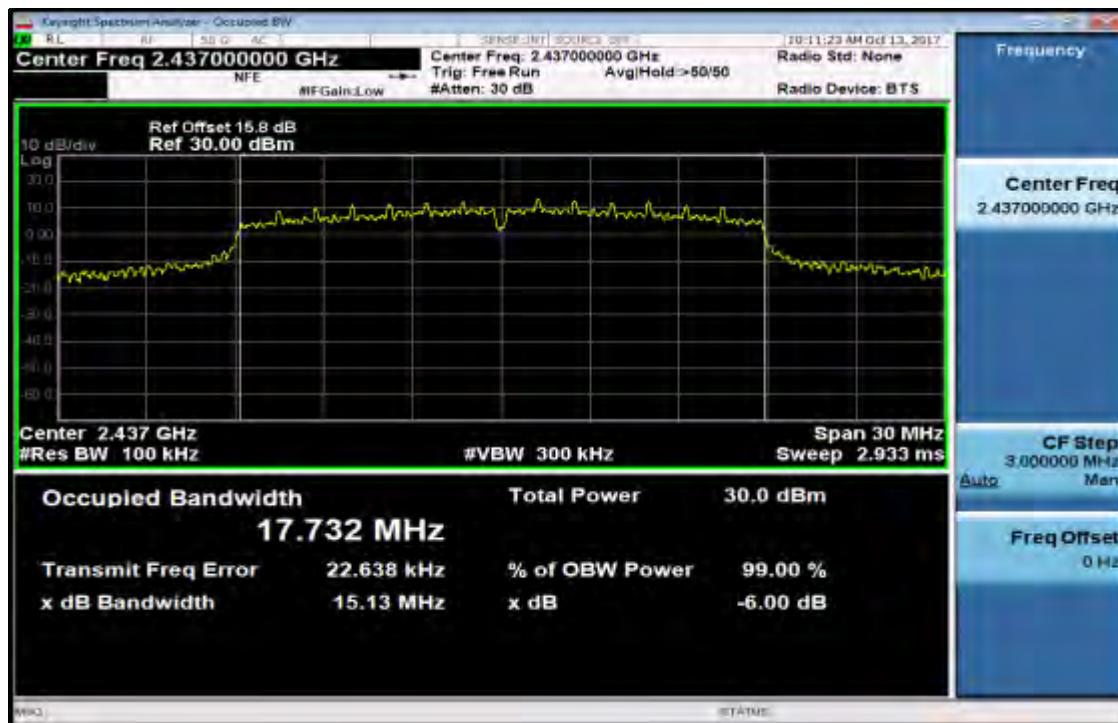


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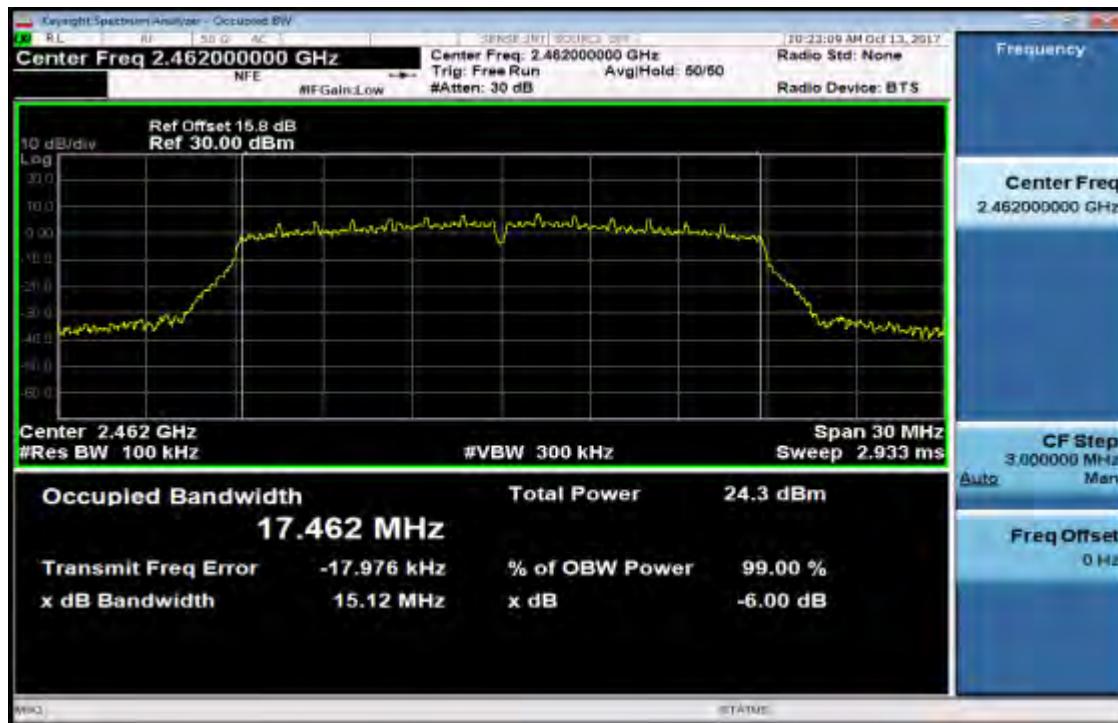
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



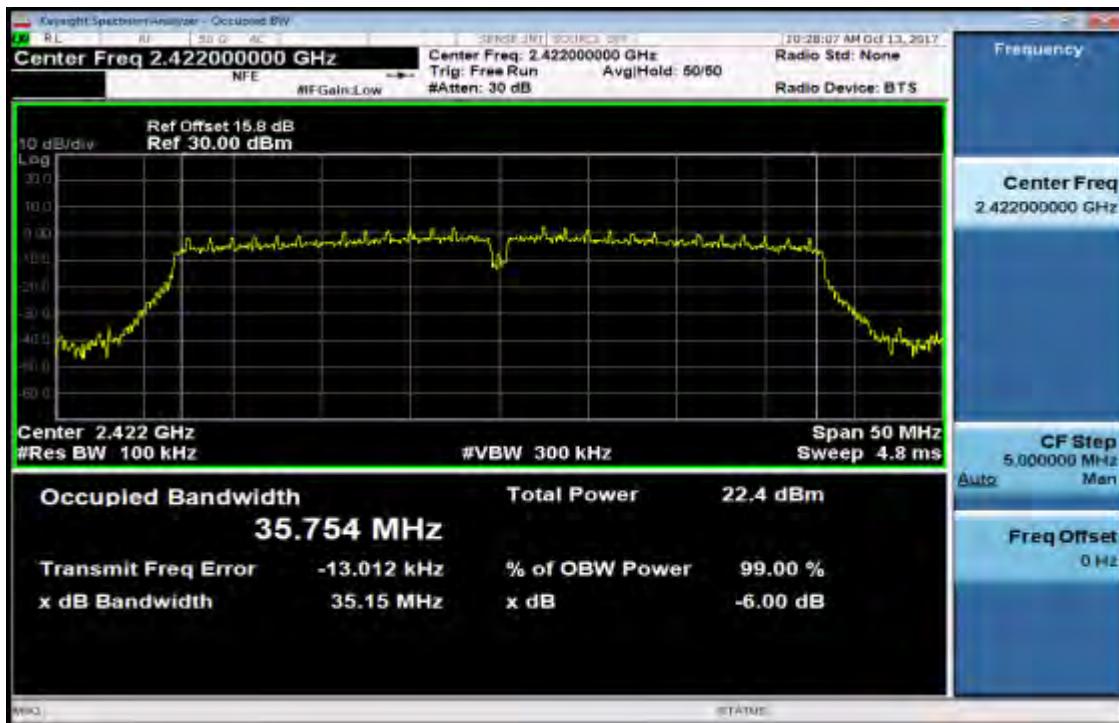
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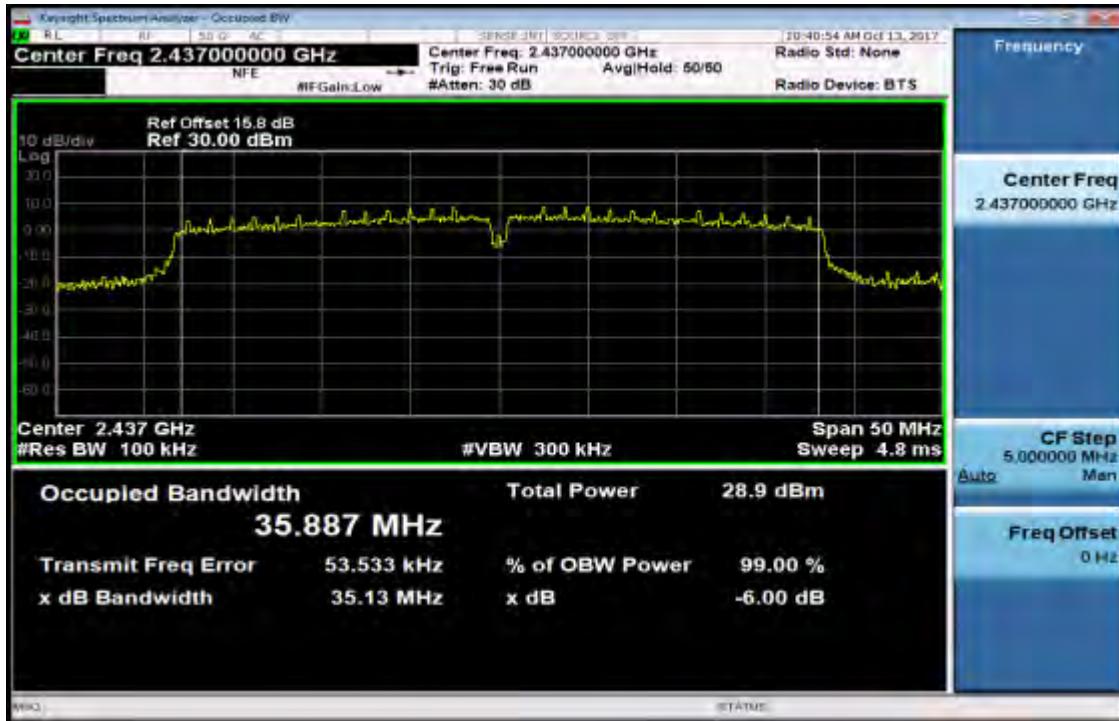
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802.11n_40M (Main)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

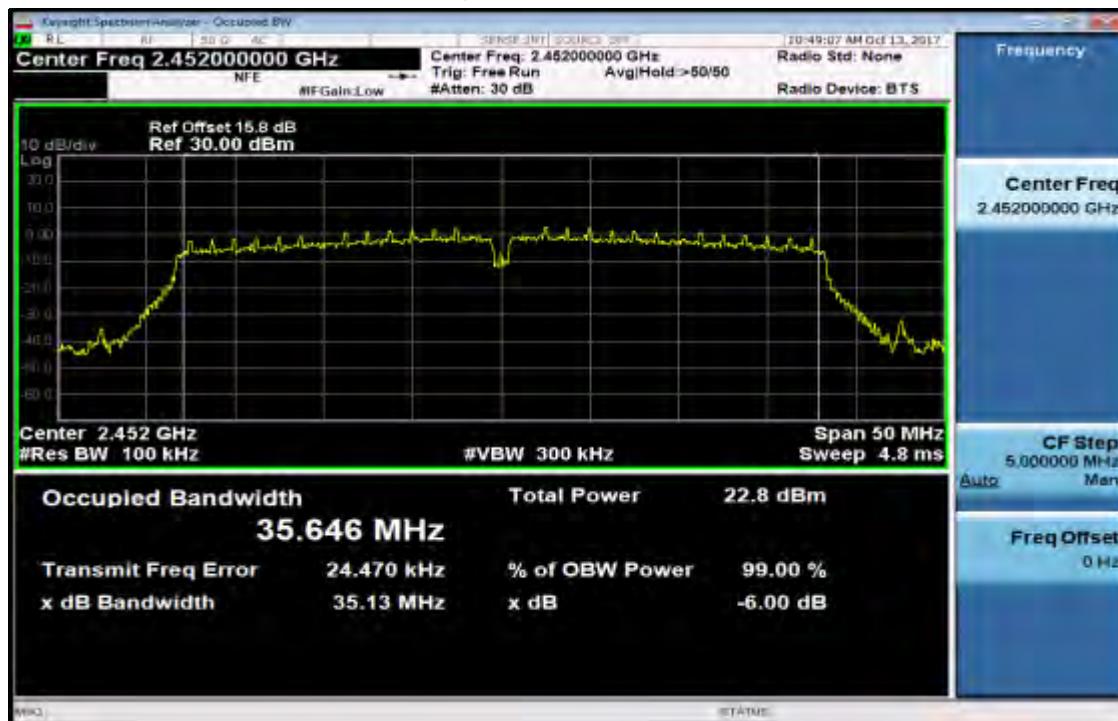


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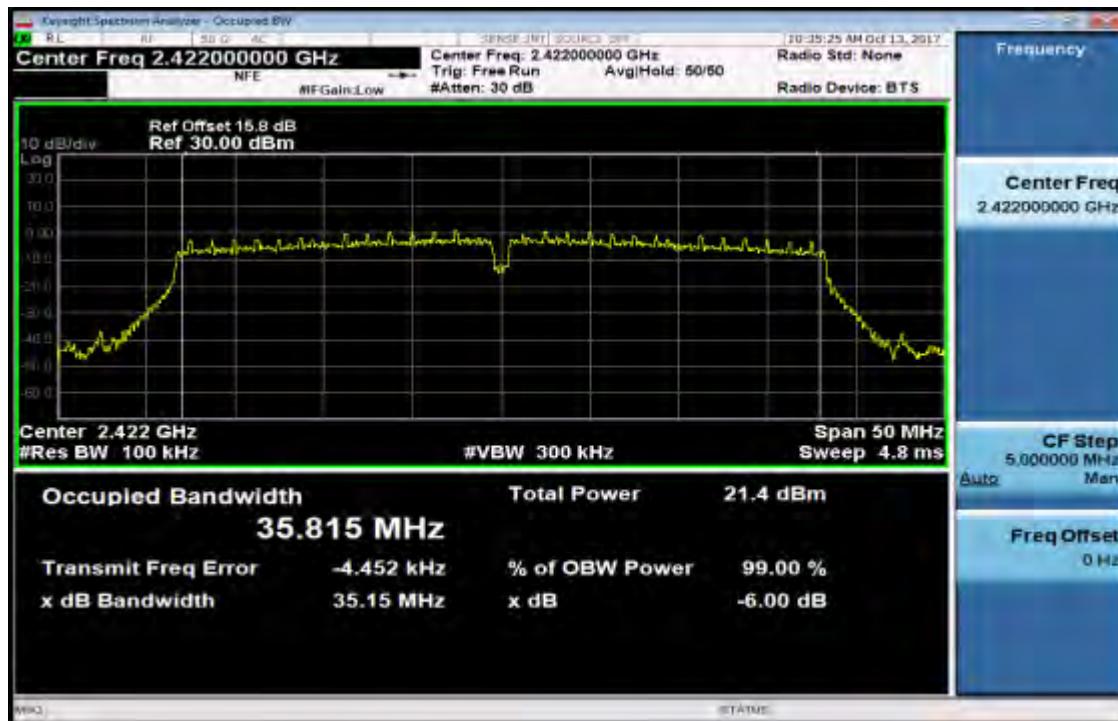
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6dB Band Width Test Data CH-High



802.11n_40M (AUX1)

6dB Band Width Test Data CH-Low

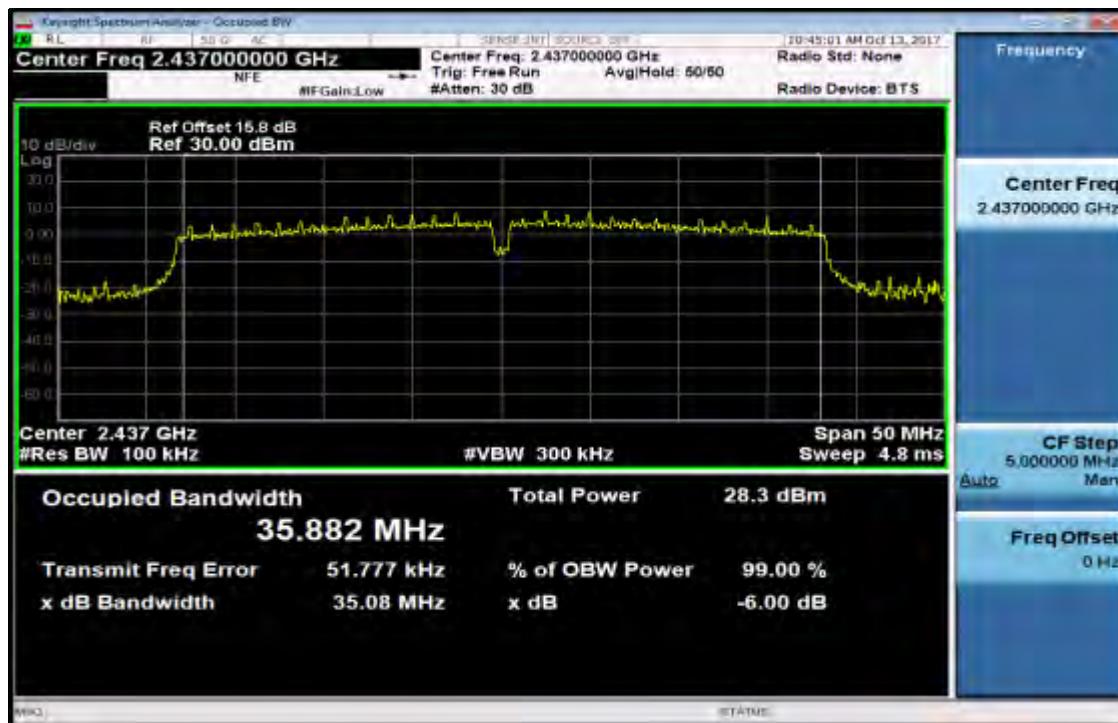


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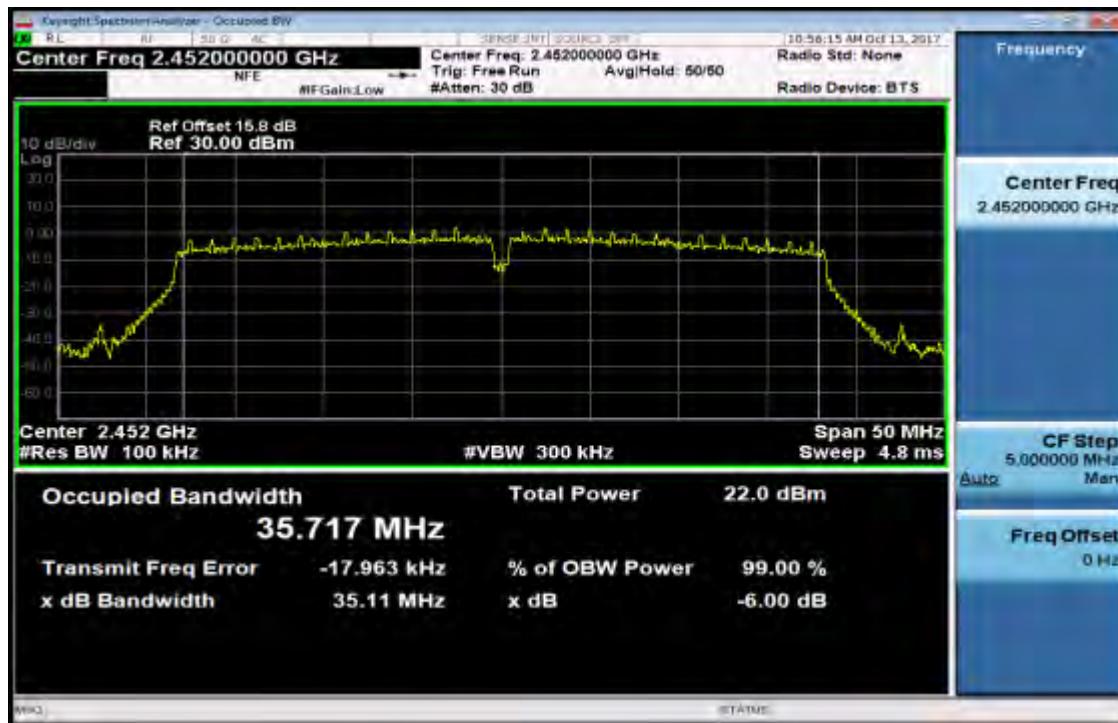
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



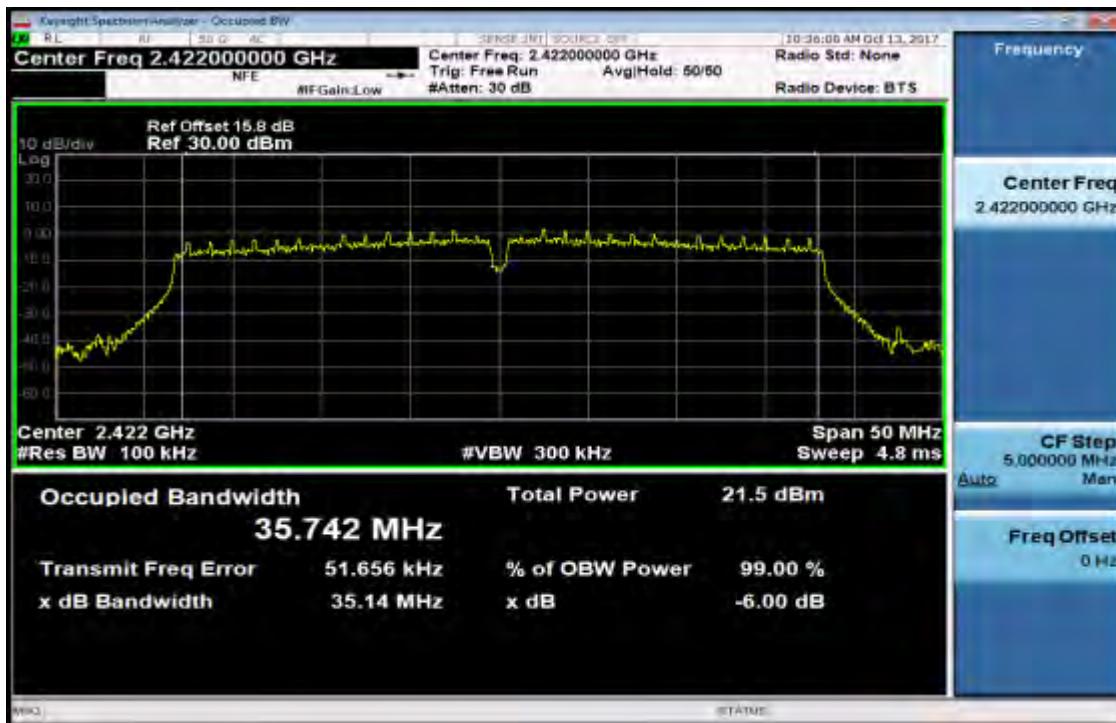
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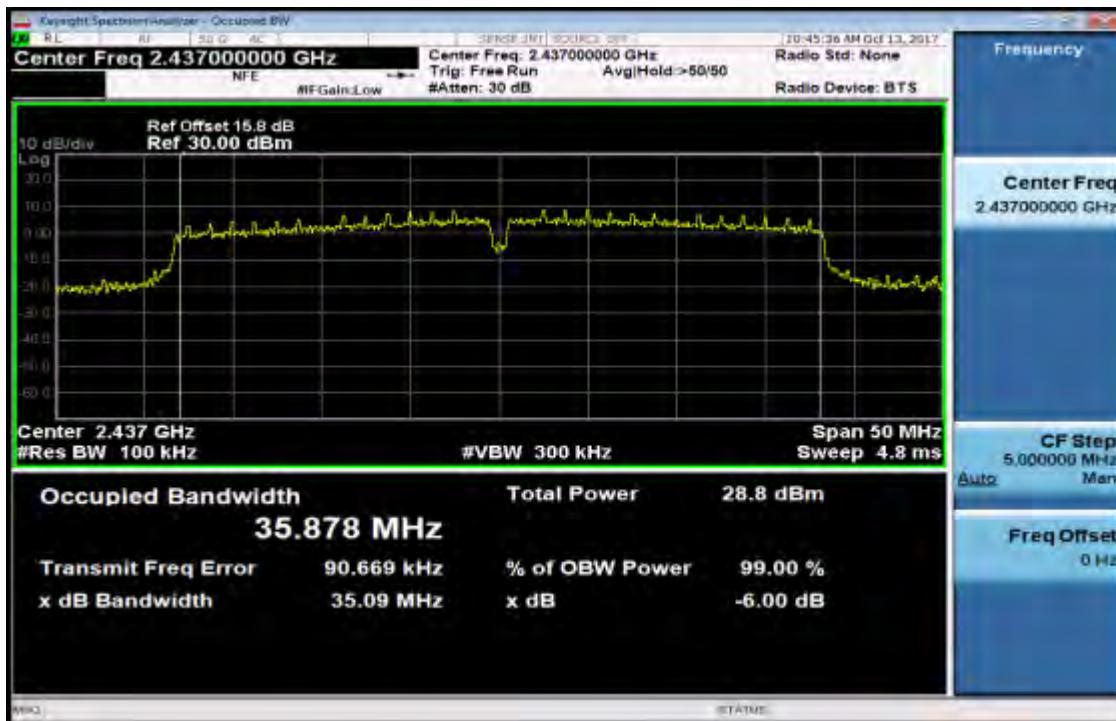
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802.11n_40M (AUX2)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



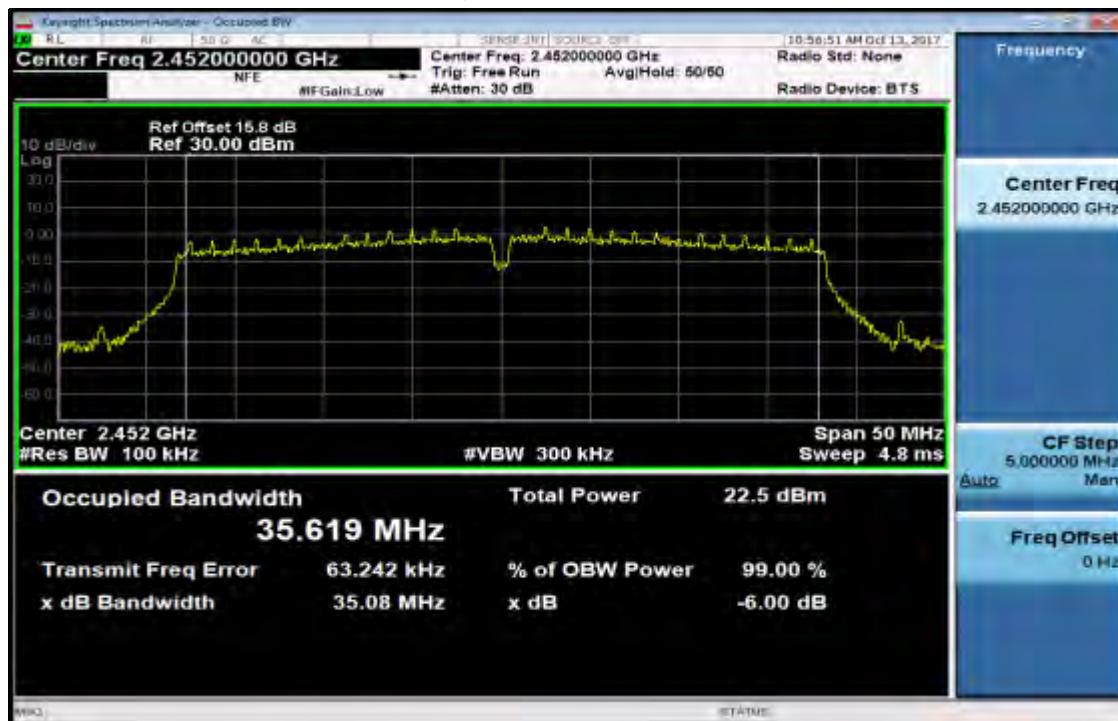
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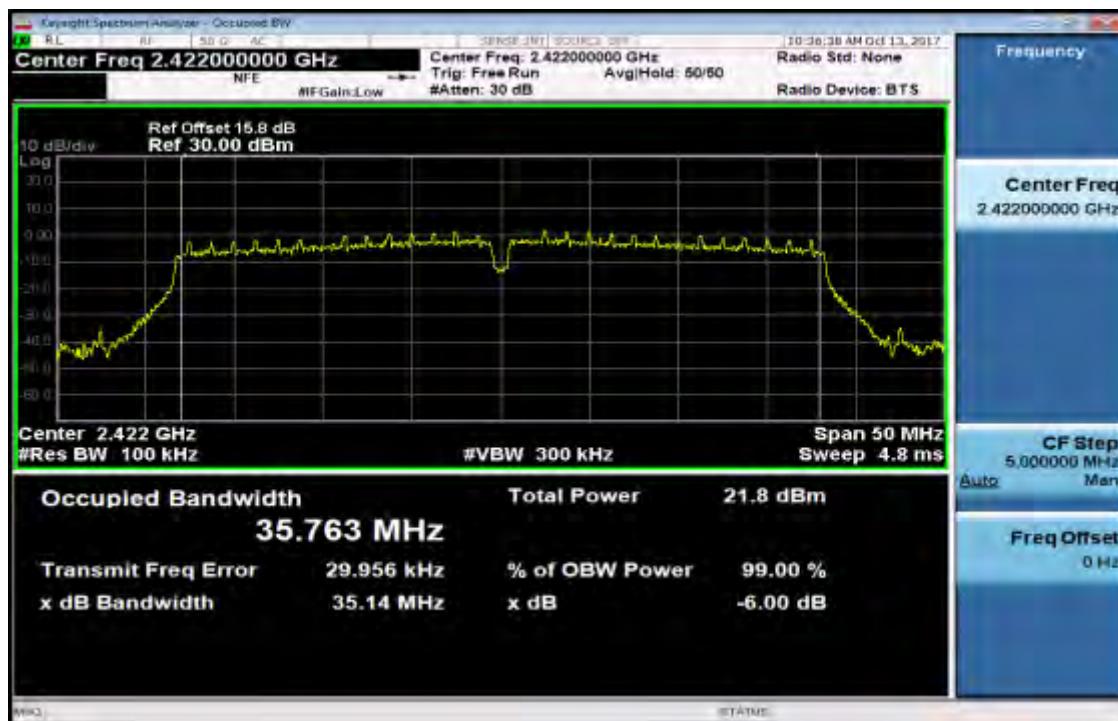
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6dB Band Width Test Data CH-High



802.11n_40M (AUX3)

6dB Band Width Test Data CH-Low

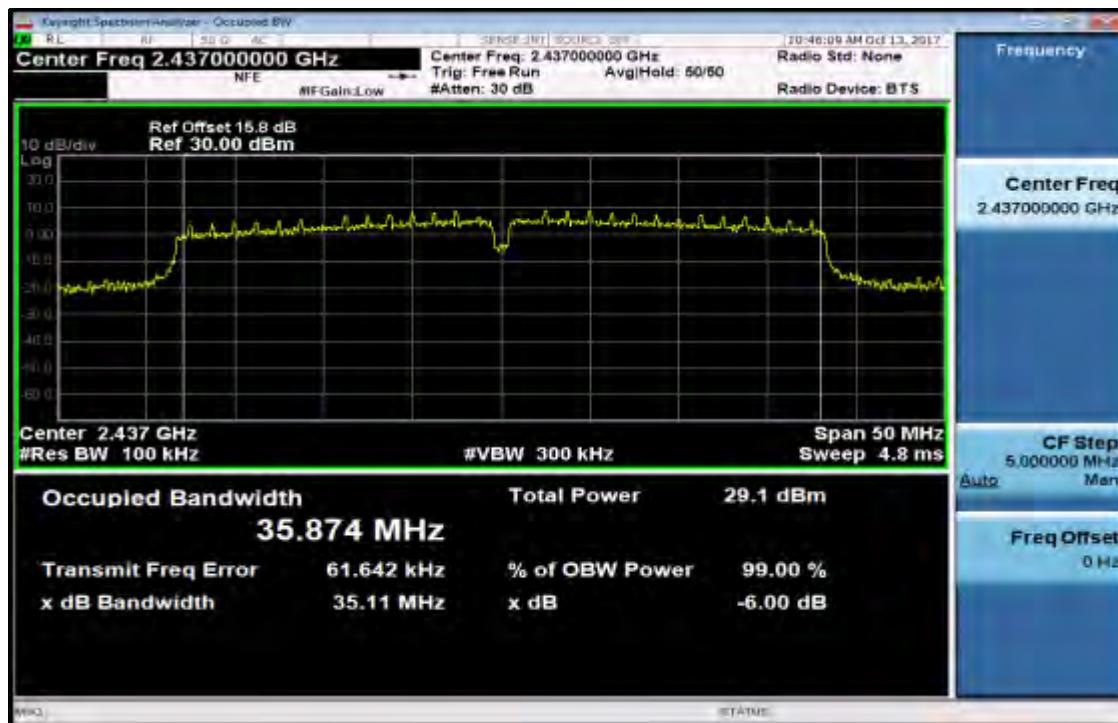


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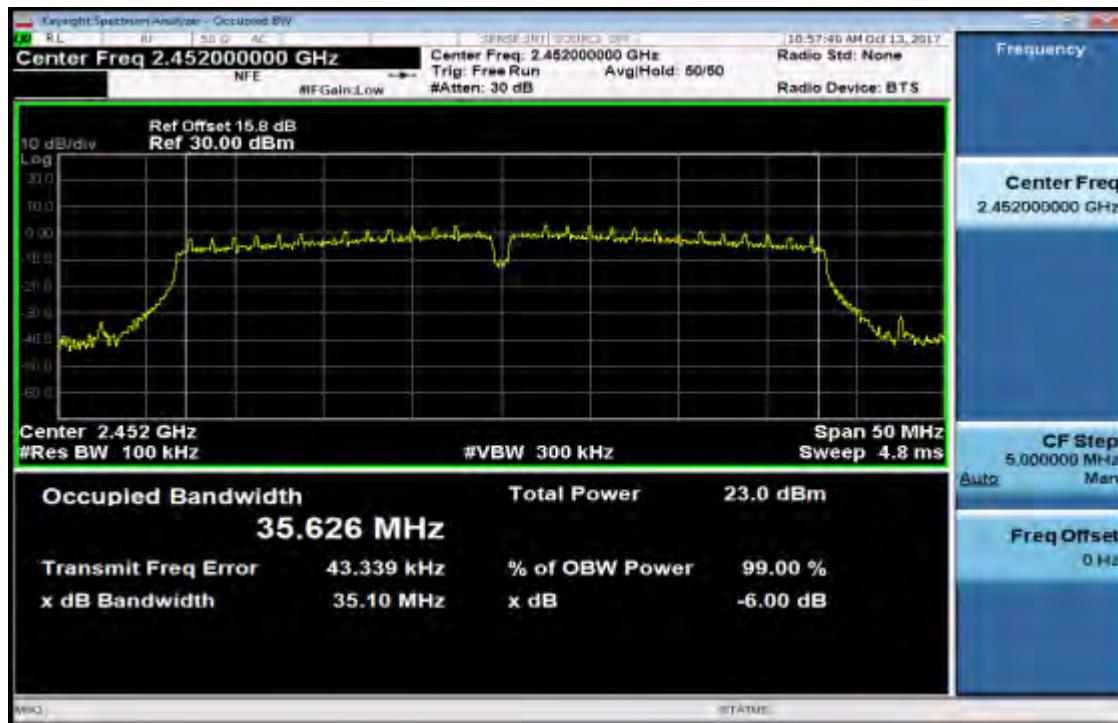
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

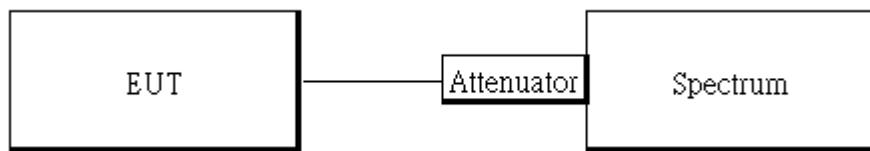
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

10.2 Measurement Equipment Used

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

10.3 Test SET-UP



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10.4 Measurement Procedure

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.
10. 802.11n MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna. N=4 for this given application.

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.
7. 802.11n MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna. N=4 for this given application.

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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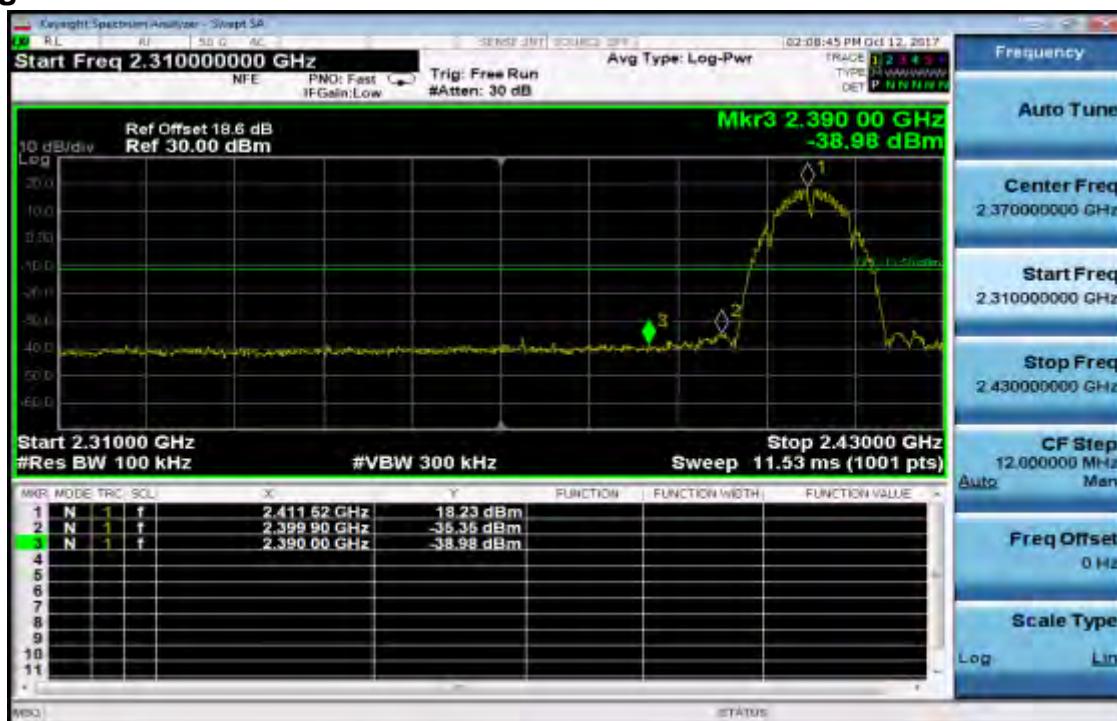
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802.11b

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



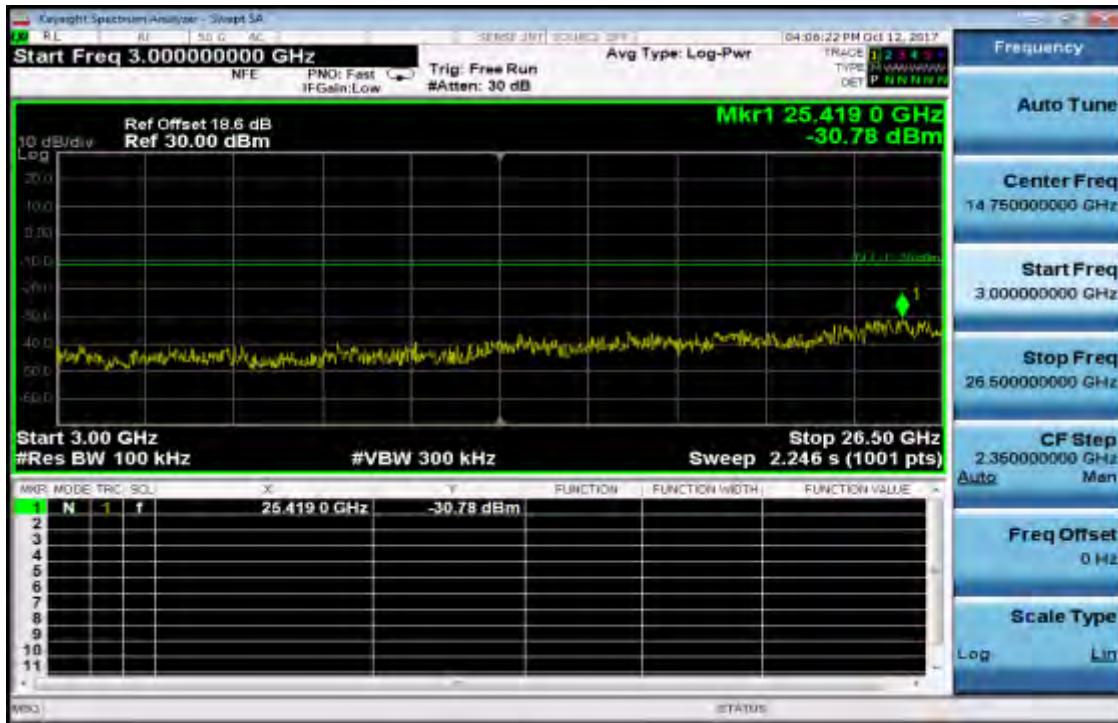
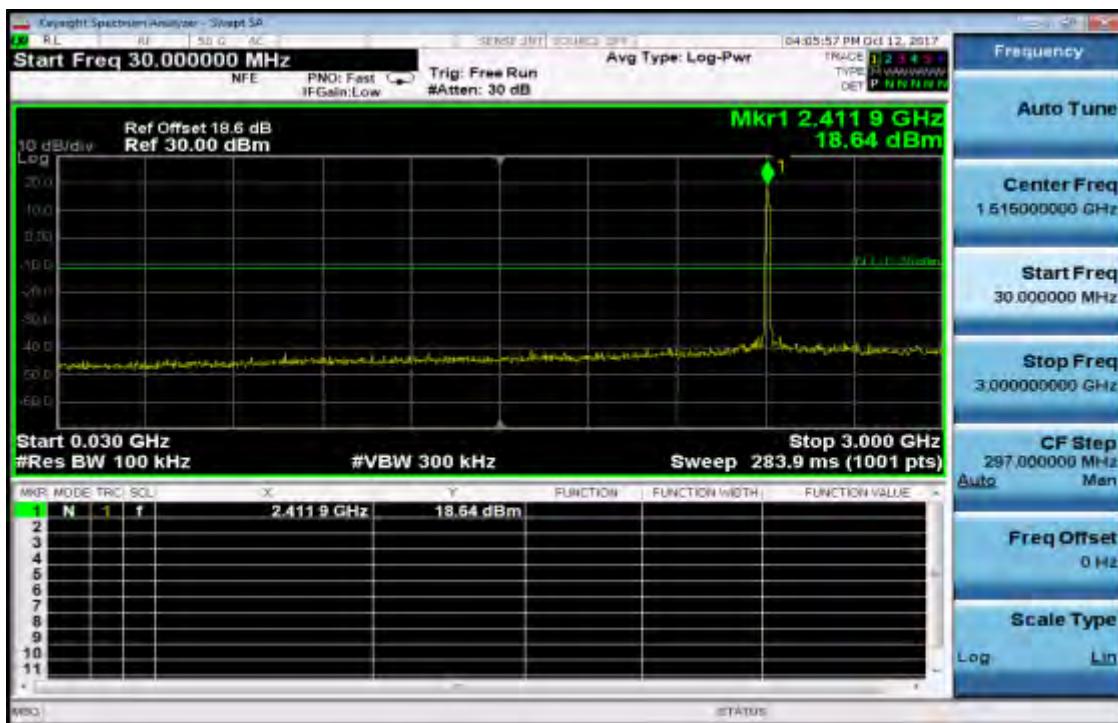
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802.11b

Spurious Emission Test Data CH-Low

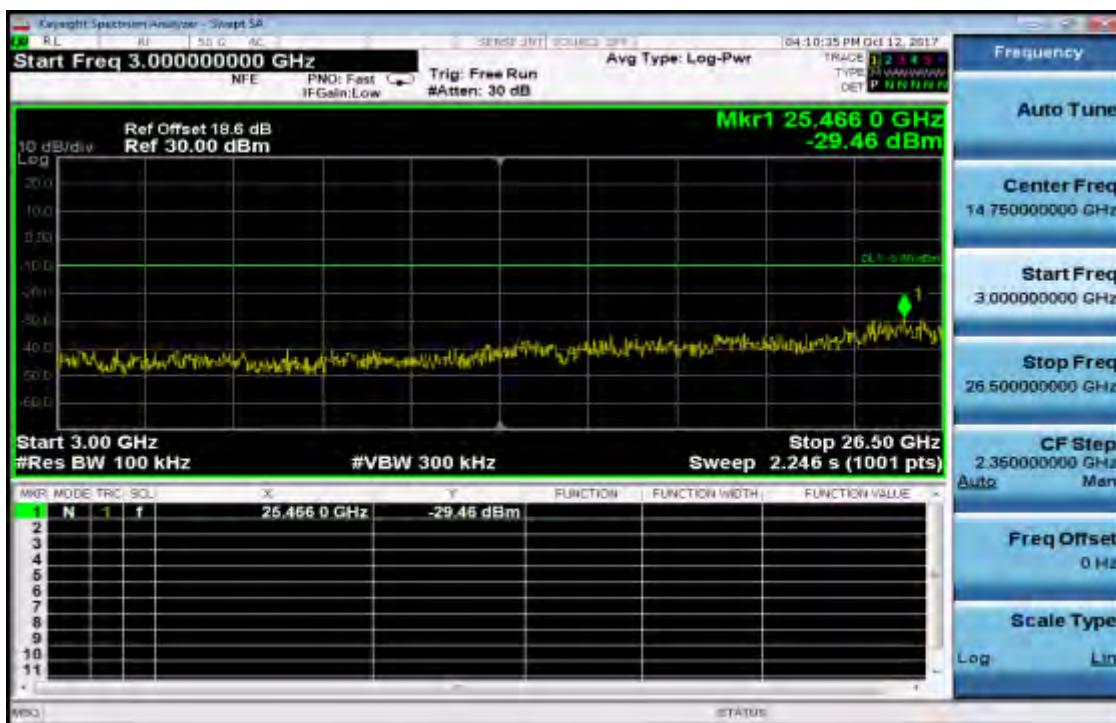
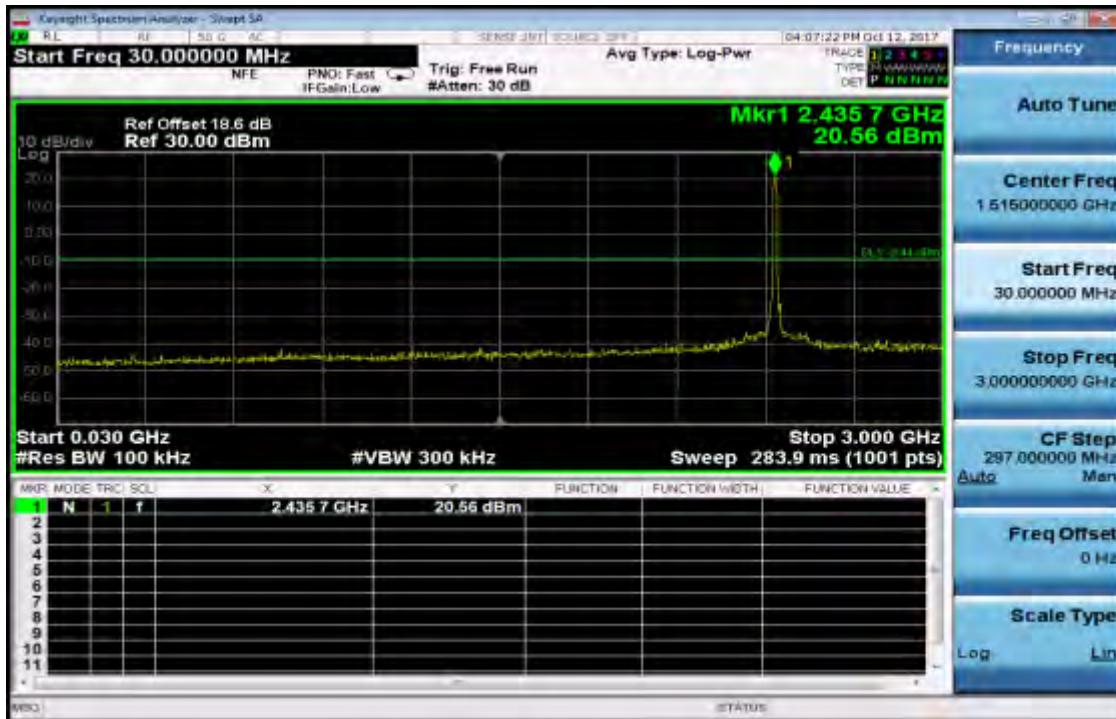


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Spurious Emission Test Data CH-Mid

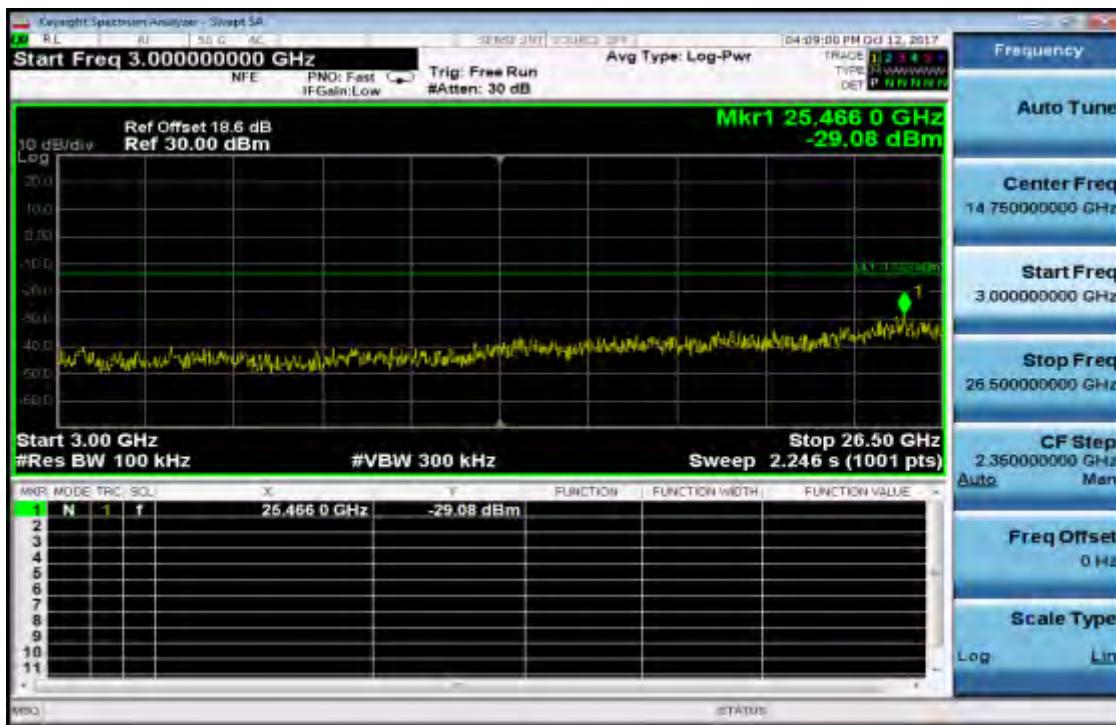
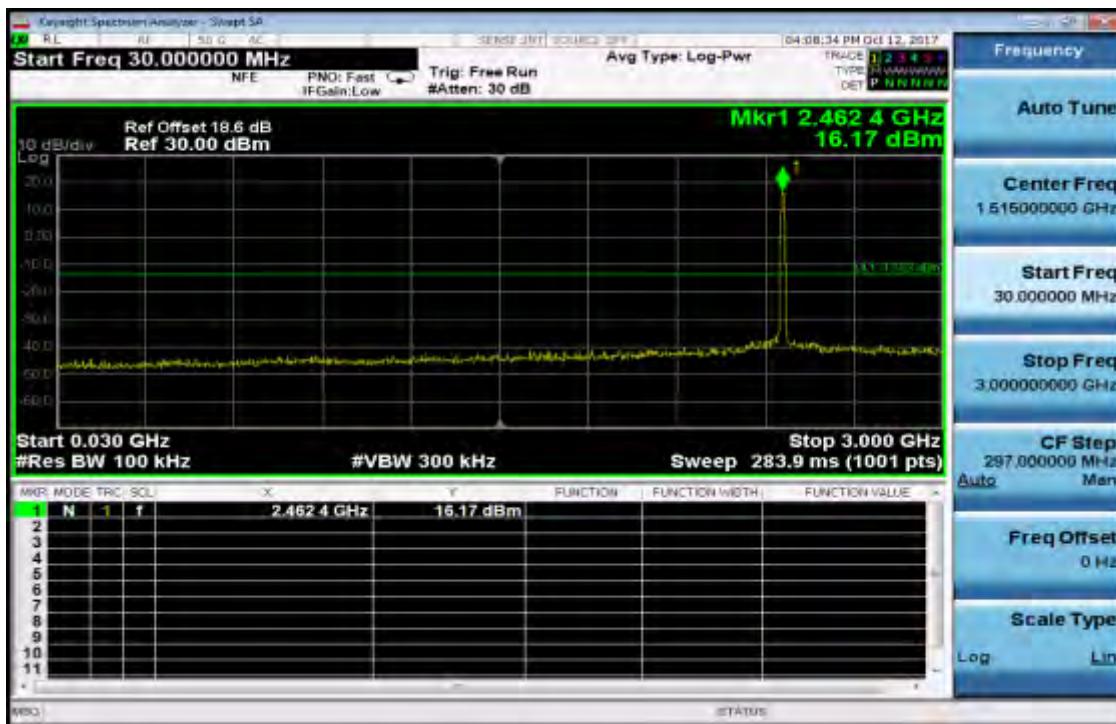


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Spurious Emission Test Data CH-High



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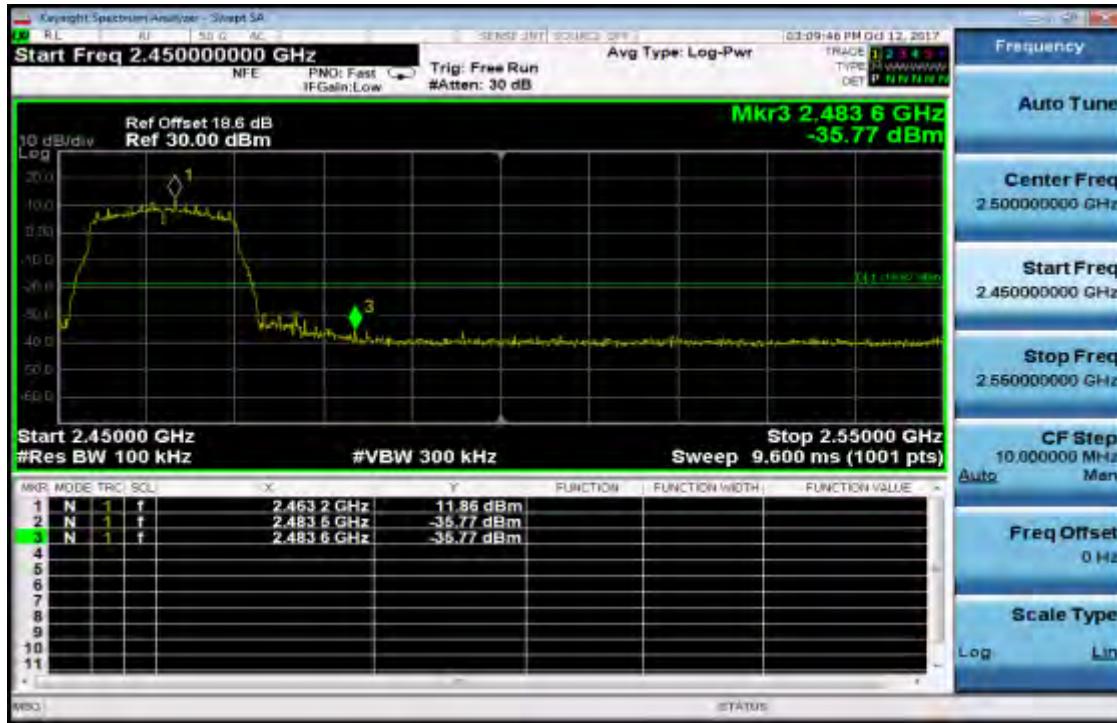
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802.11g

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



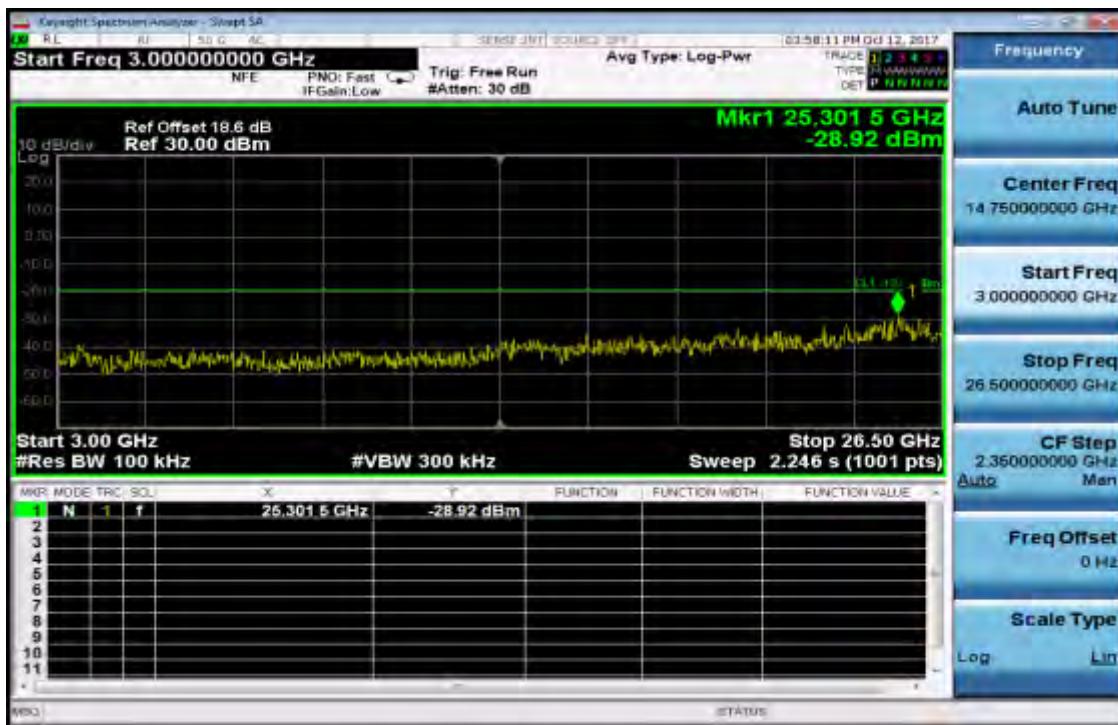
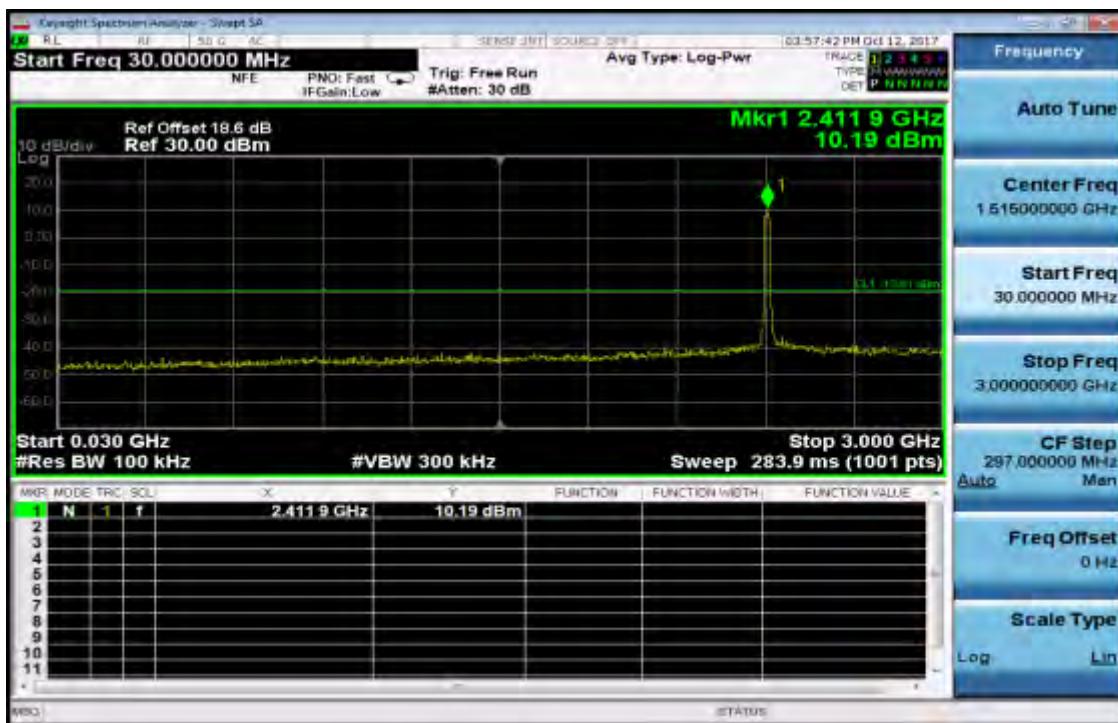
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802.11g

Spurious Emission Test Data CH-Low

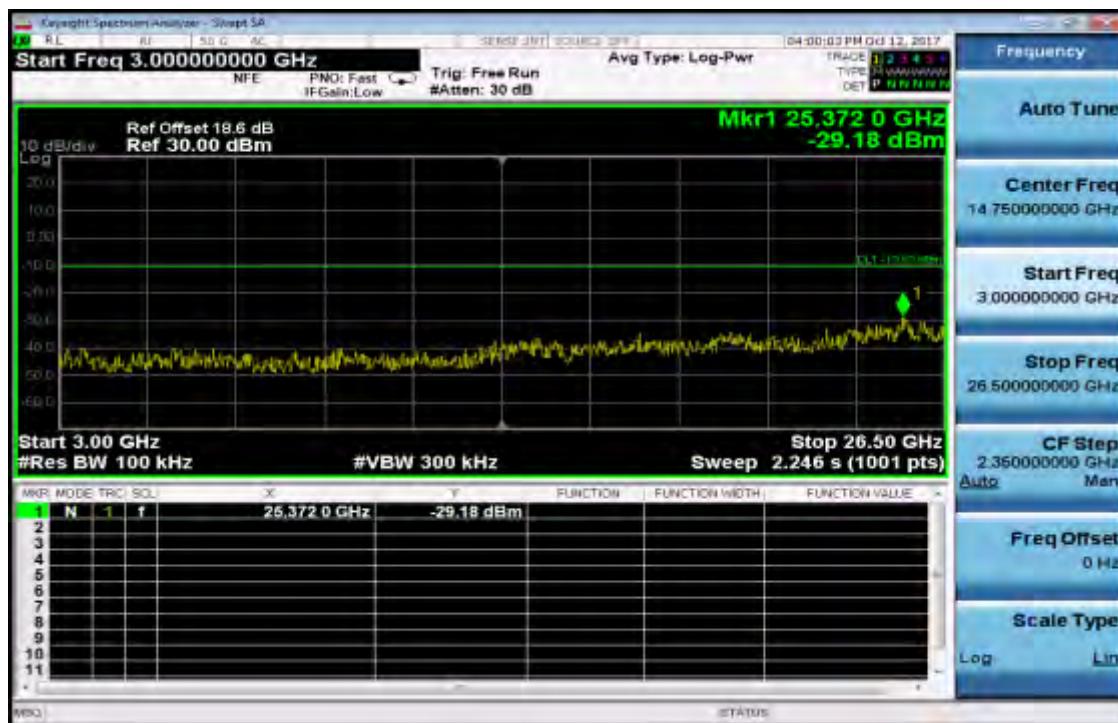
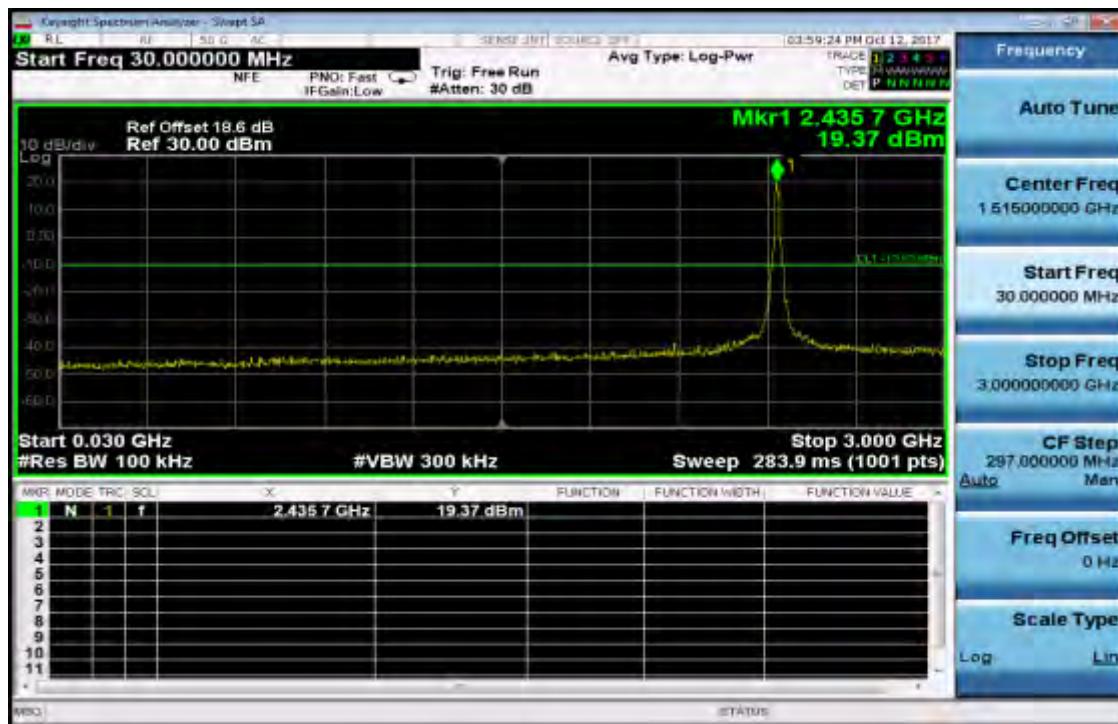


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Spurious Emission Test Data CH-Mid

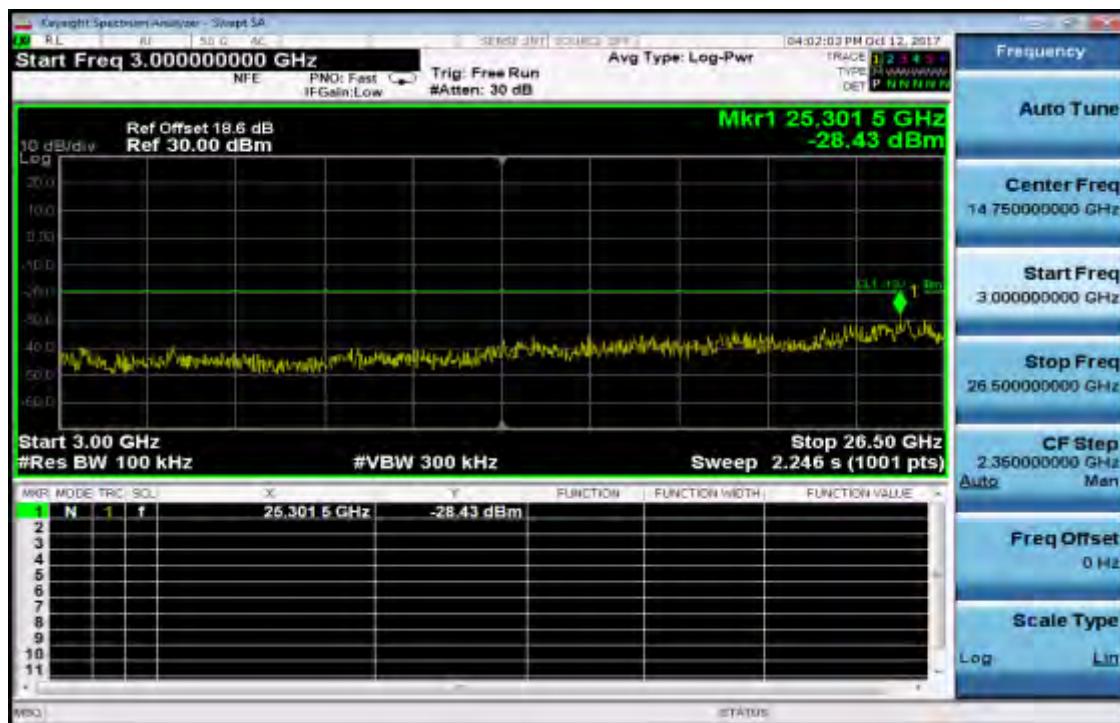
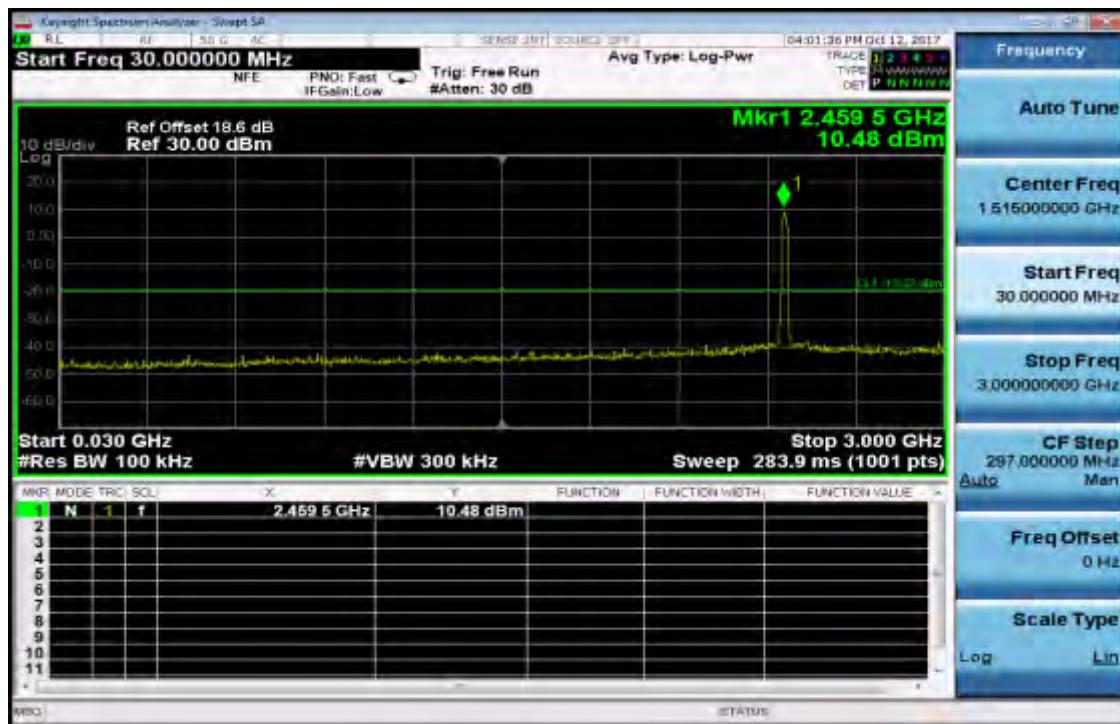


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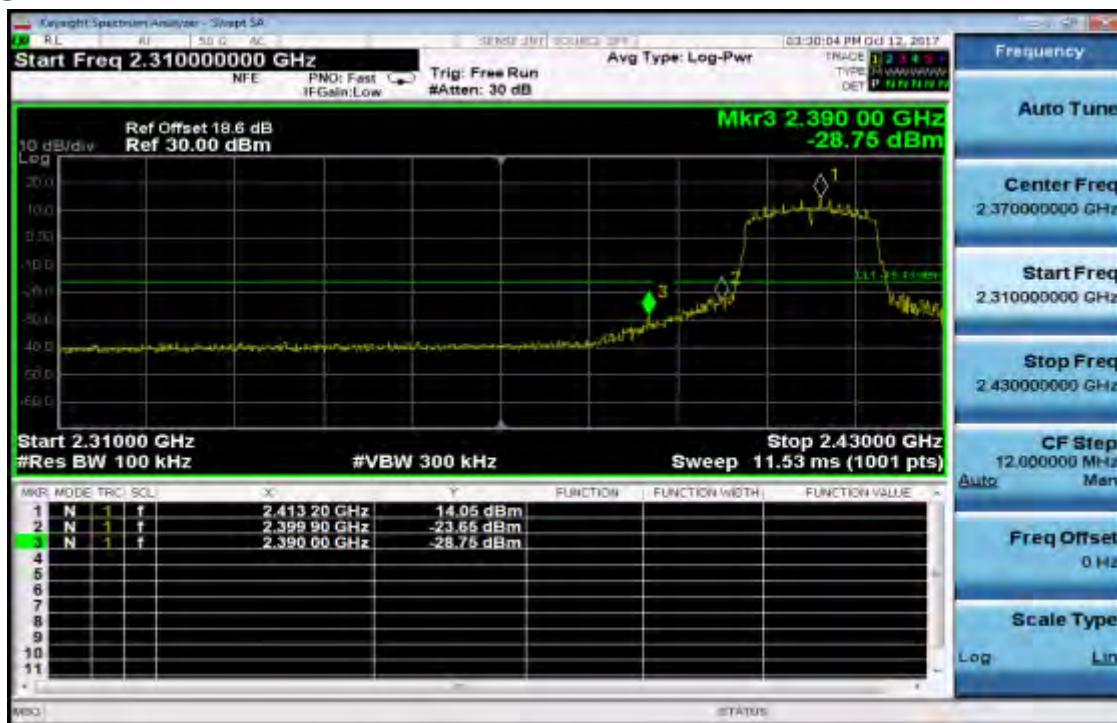
Spurious Emission Test Data CH-High



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CDD Mode:**802.11n_HT20****Band Edges Test Data CH-Low****Band Edges Test Data CH-High**

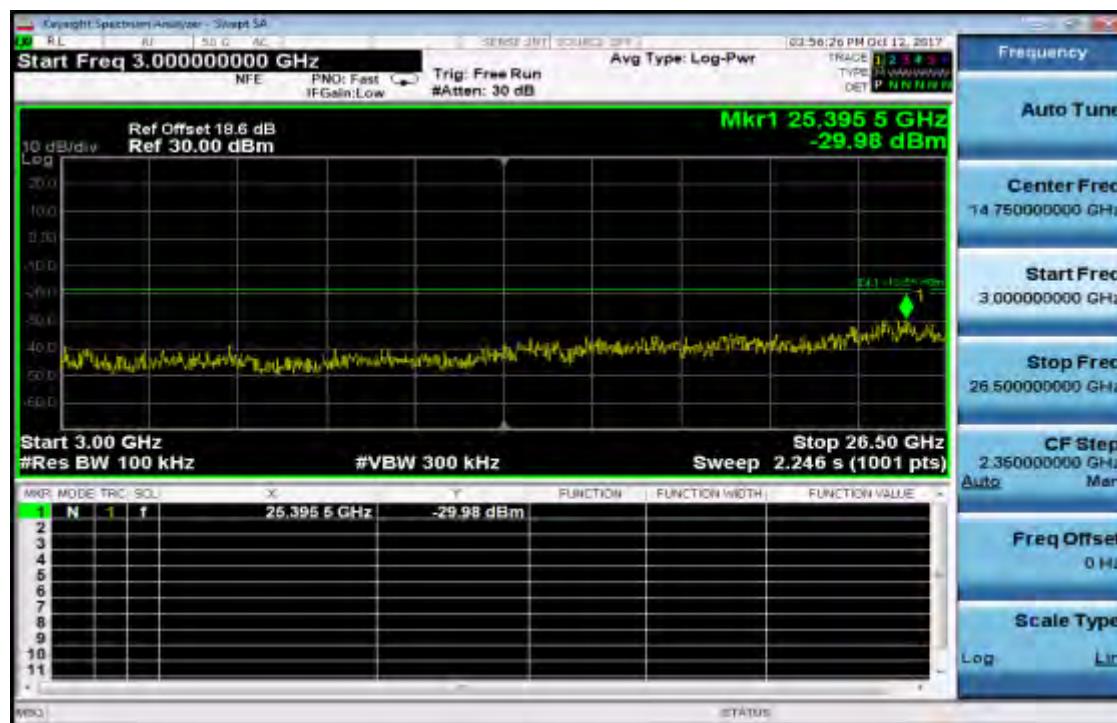
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802.11n_HT20

Spurious Emission Test Data CH-Low

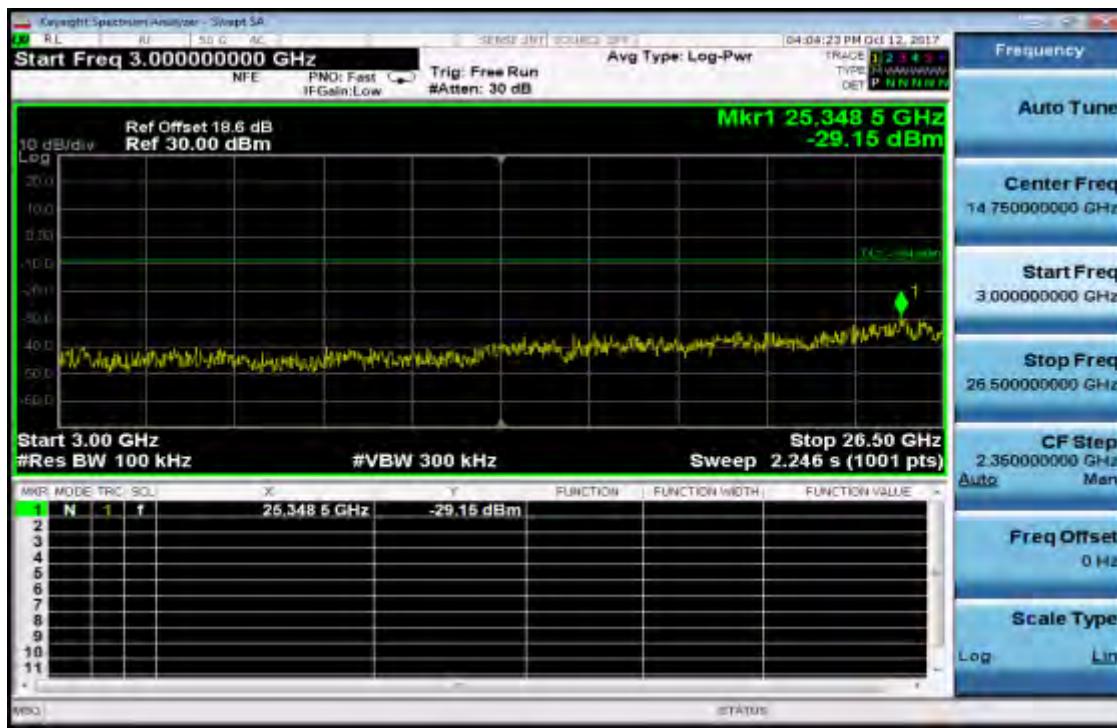
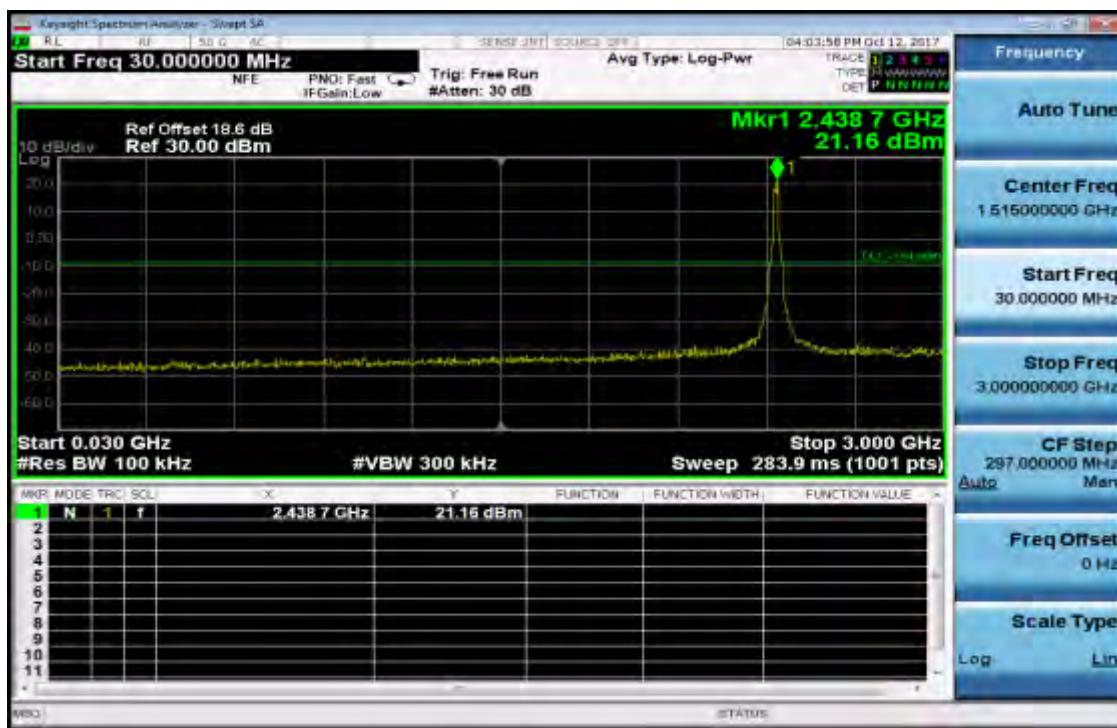


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Spurious Emission Test Data CH-Mid

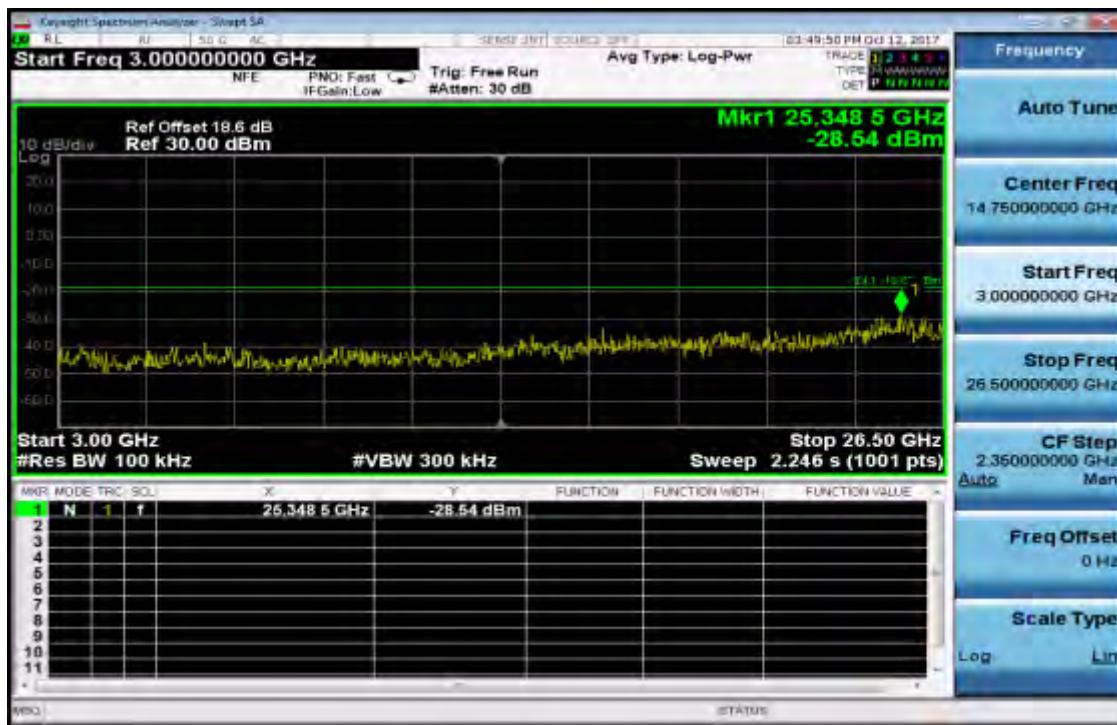
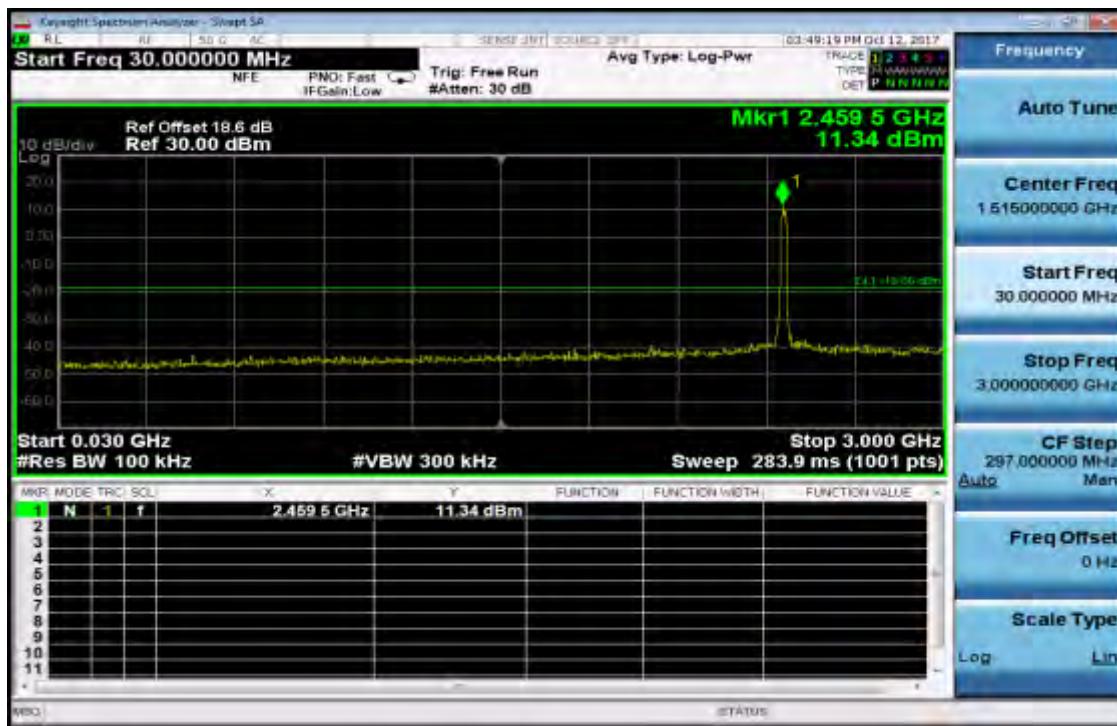


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Spurious Emission Test Data CH-High



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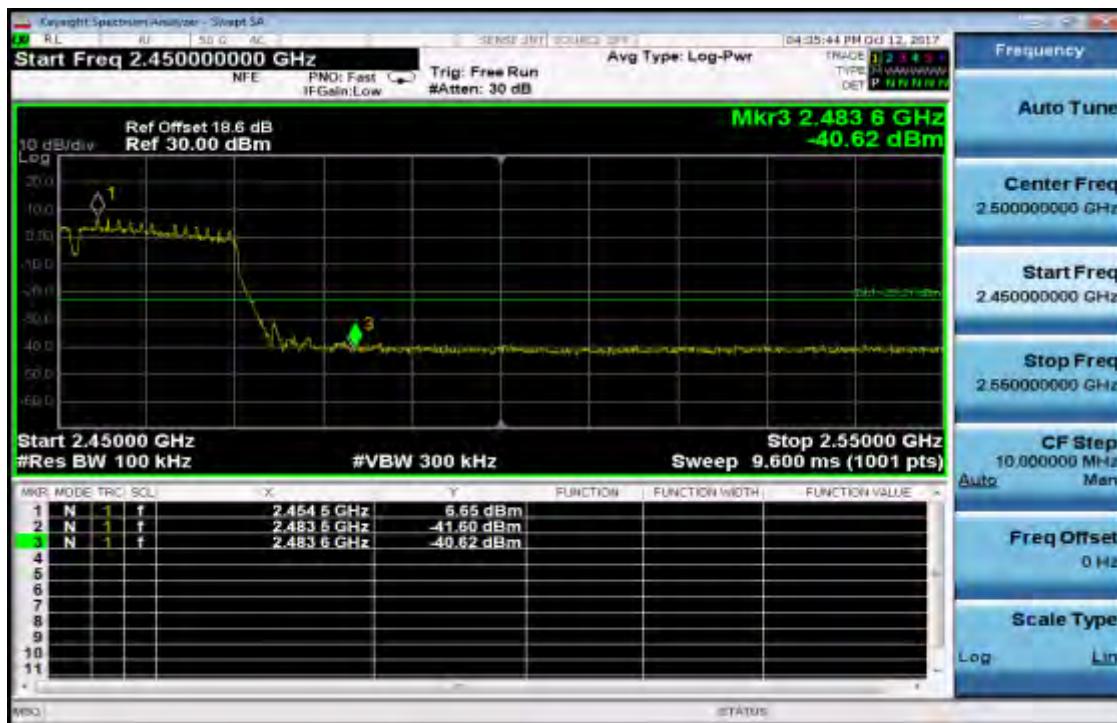
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802.11n_HT40

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



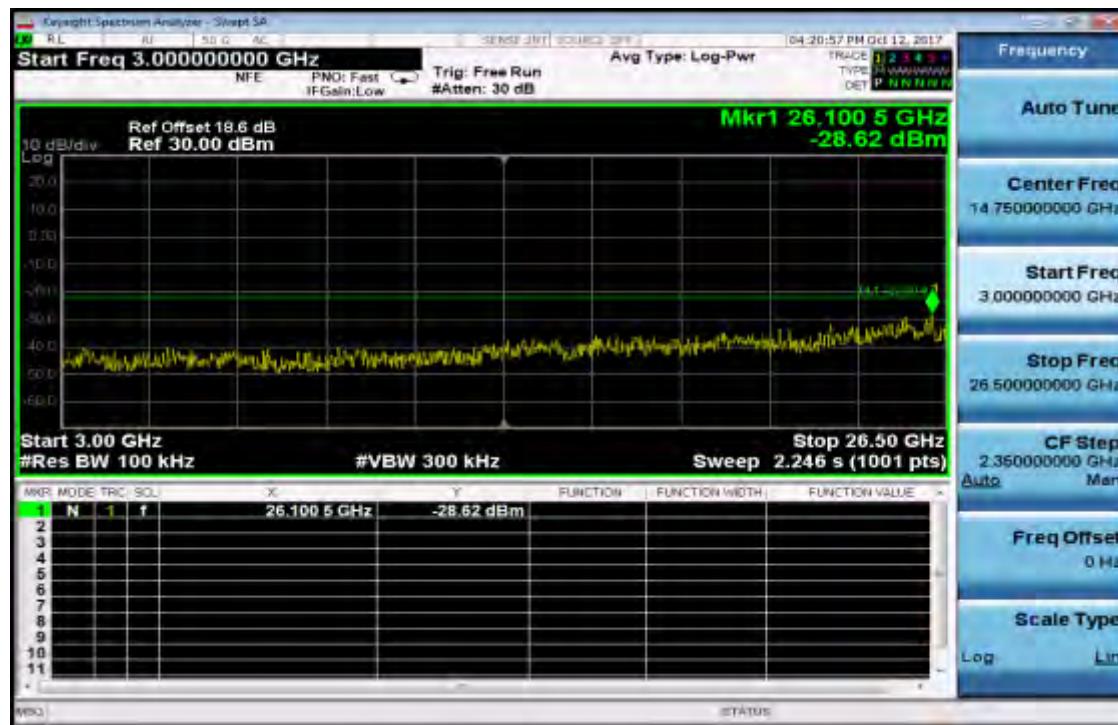
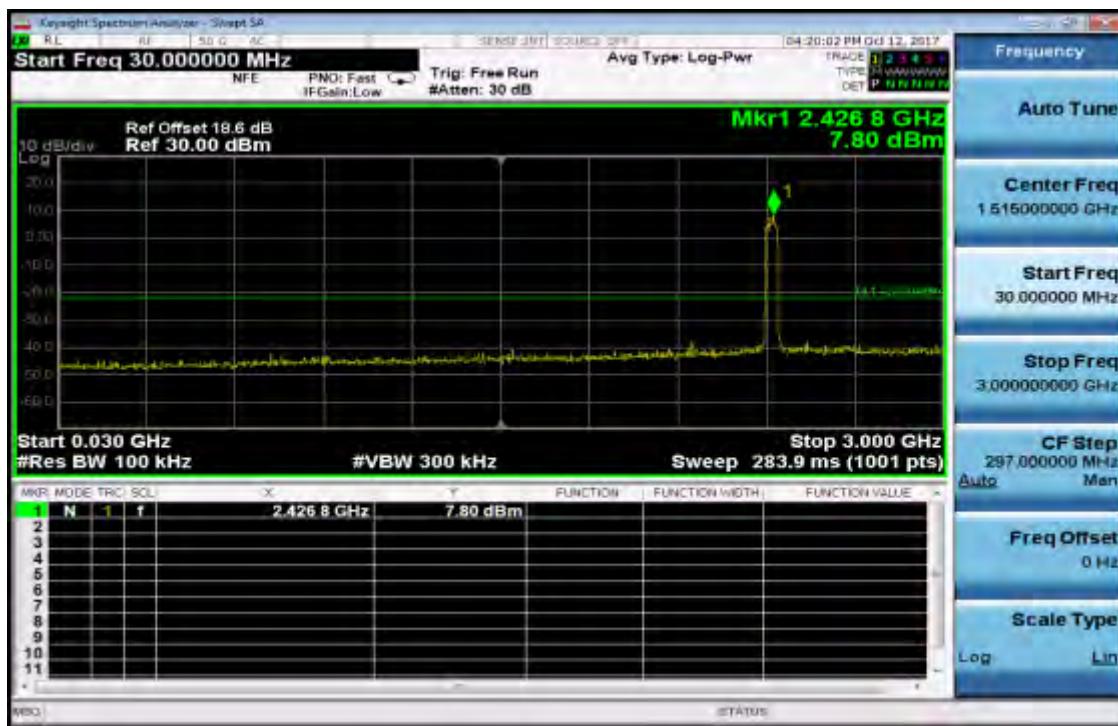
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802.11n_HT40

Spurious Emission Test Data CH-Low

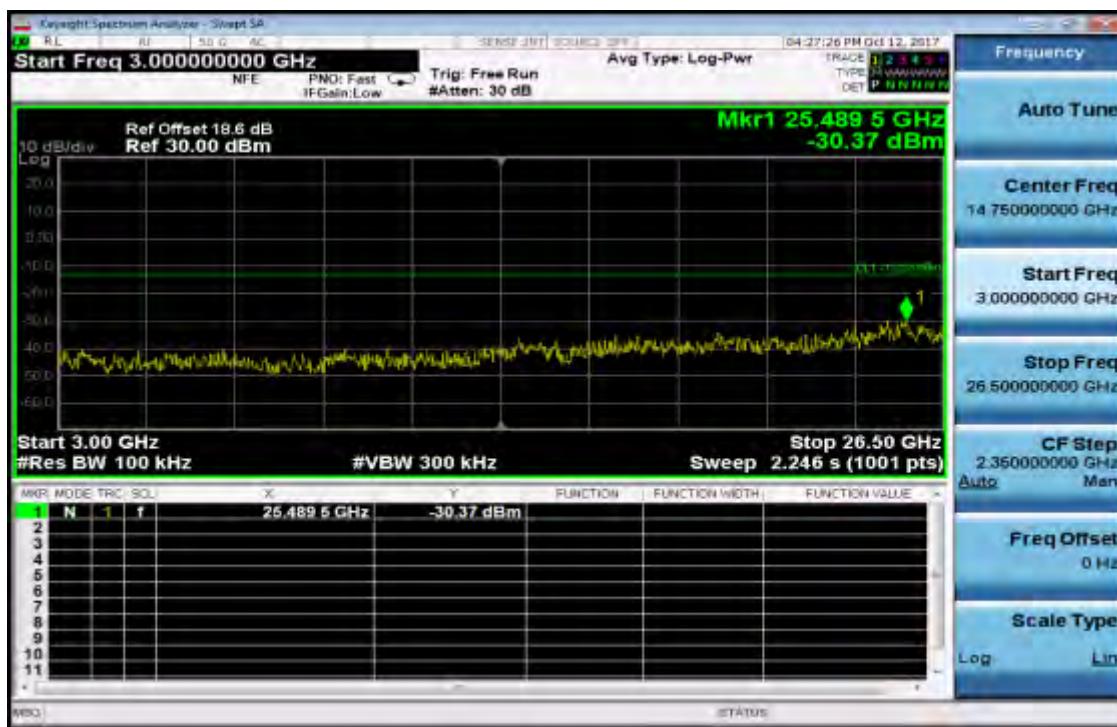
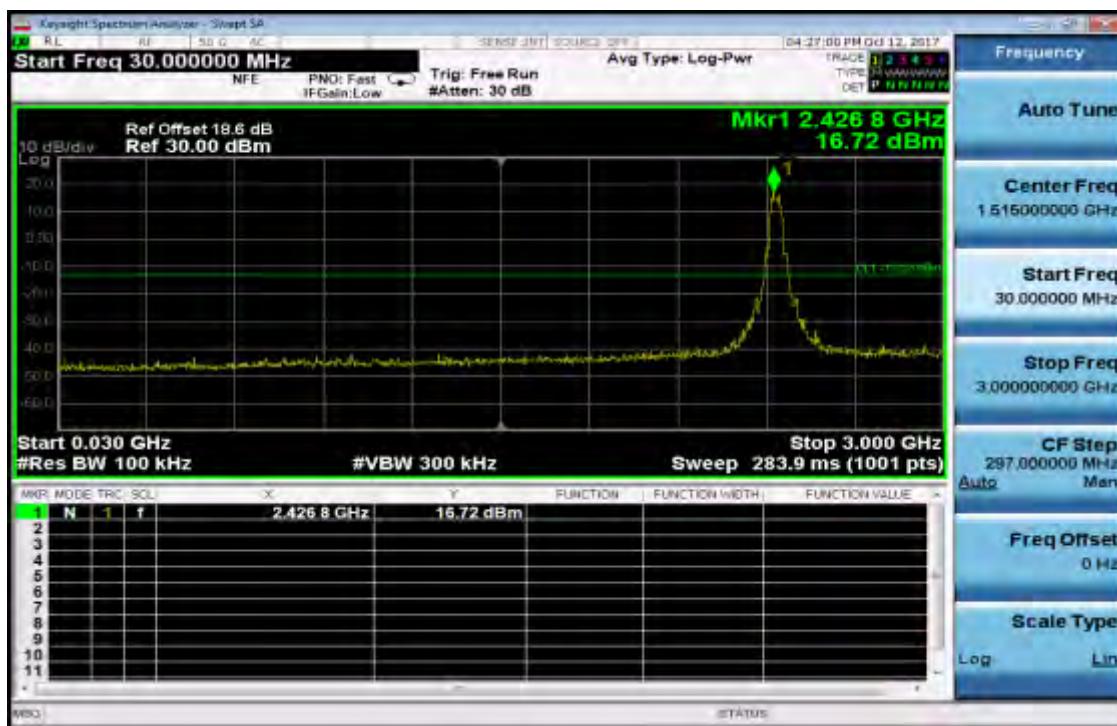


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Spurious Emission Test Data CH-Mid

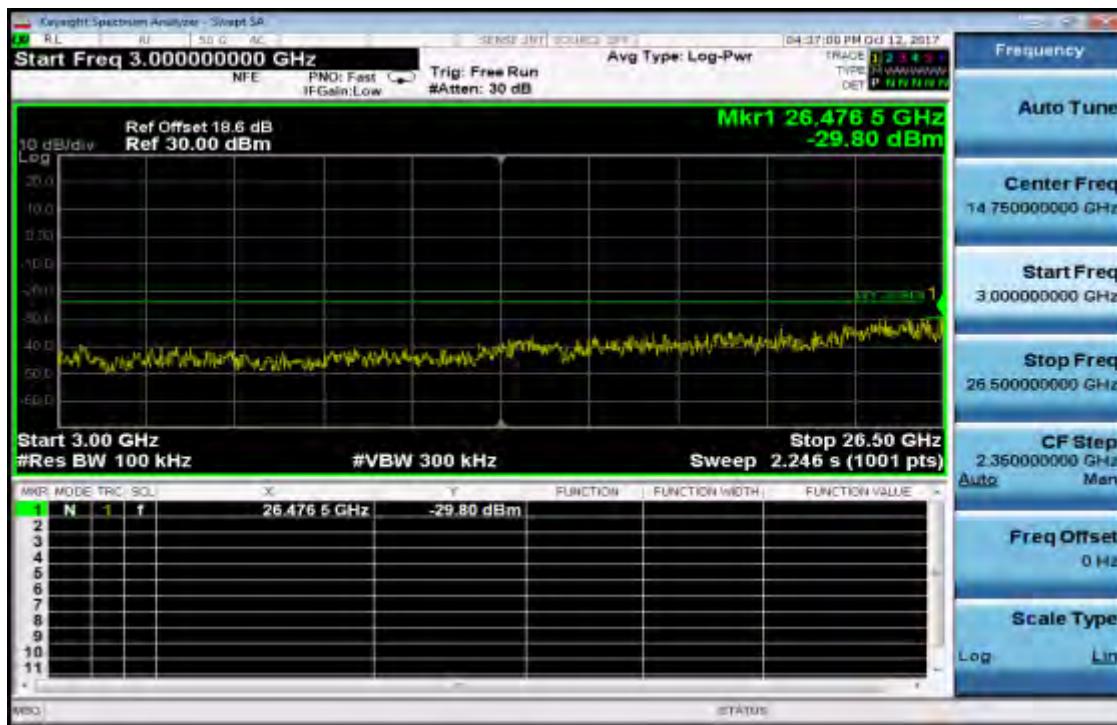
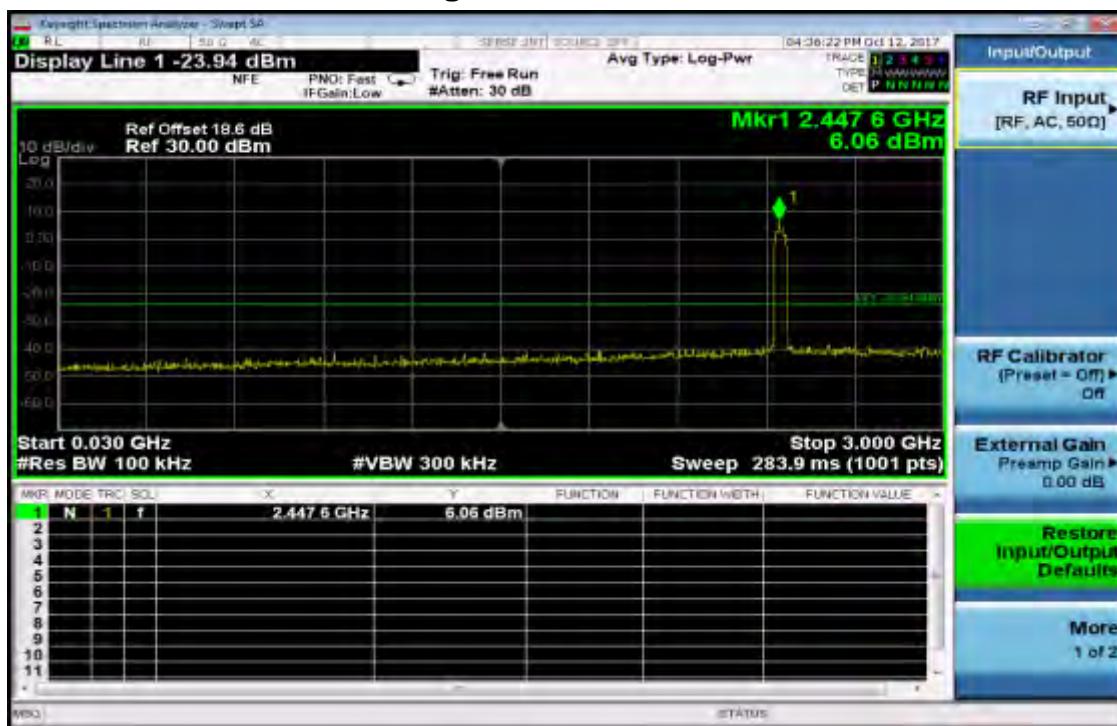


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Spurious Emission Test Data CH-High



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Beam Forming Mode:**802.11n_HT20****Band Edges Test Data CH-Low****Band Edges Test Data CH-High**

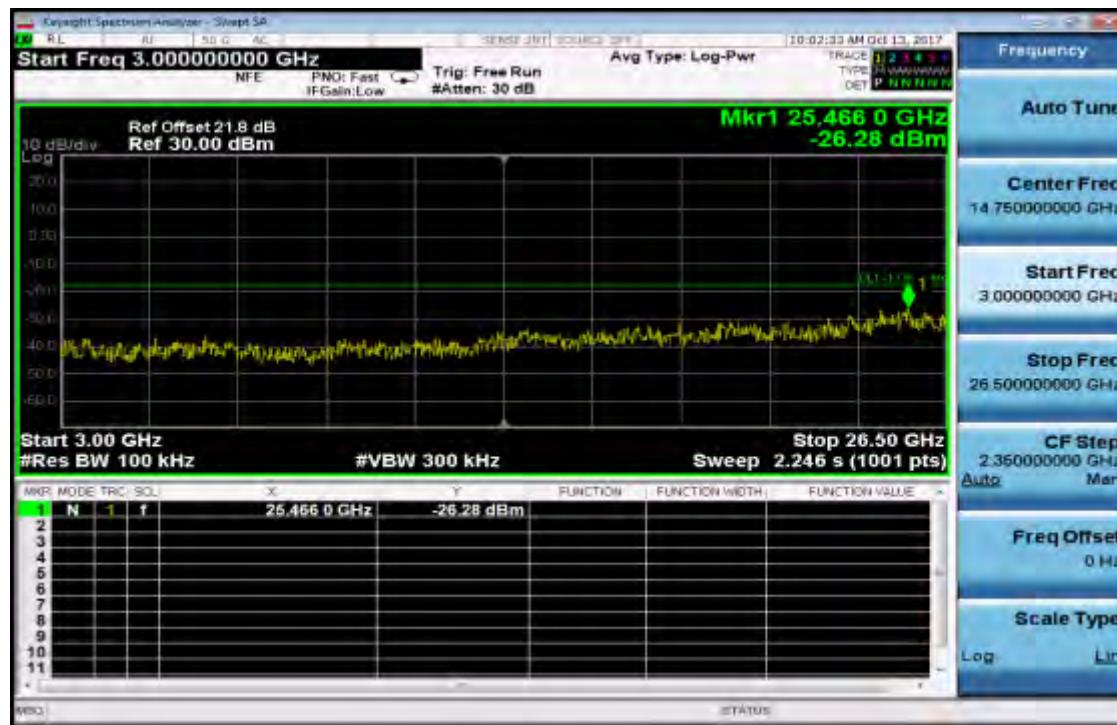
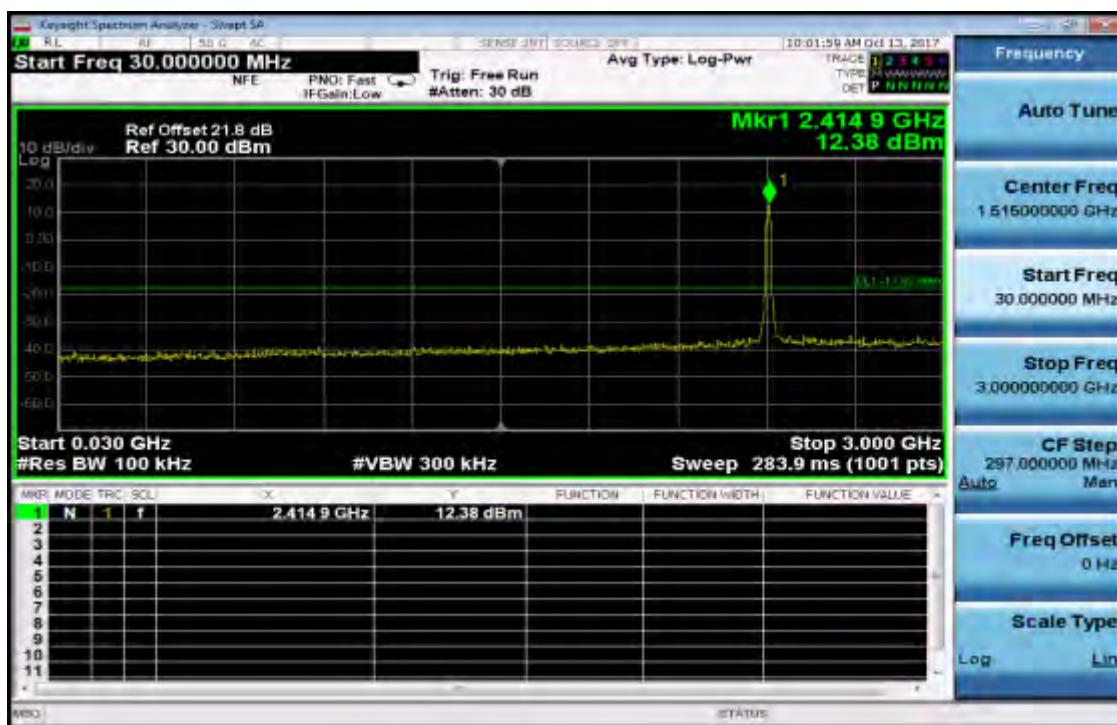
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802.11n_HT20

Spurious Emission Test Data CH-Low

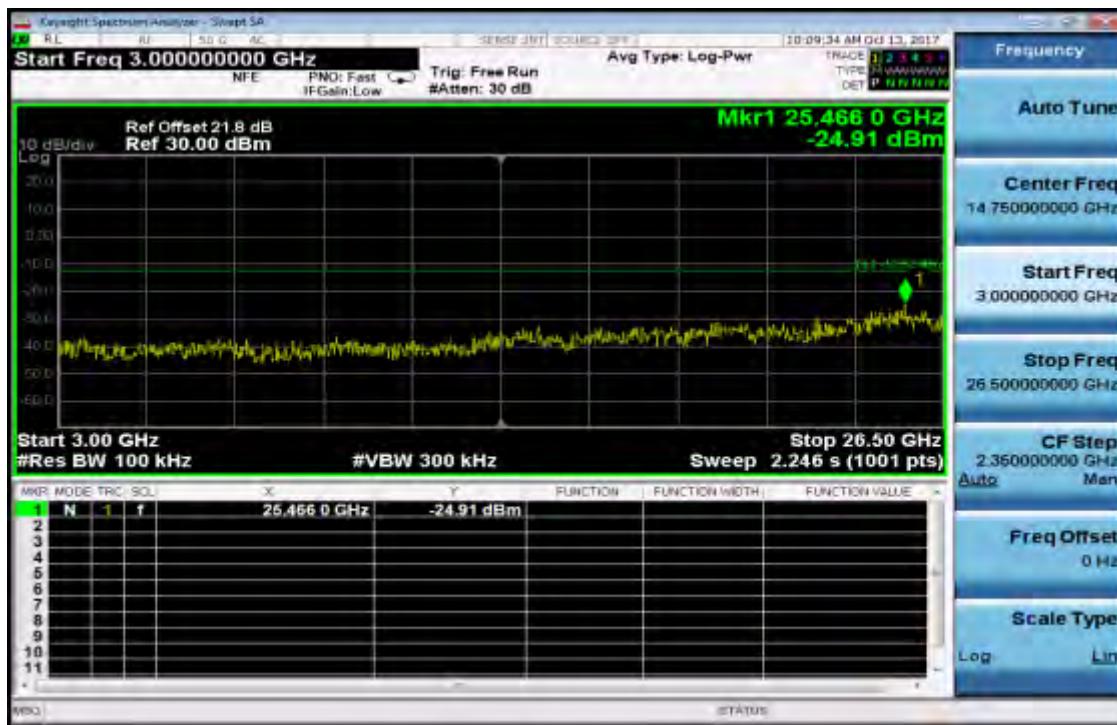
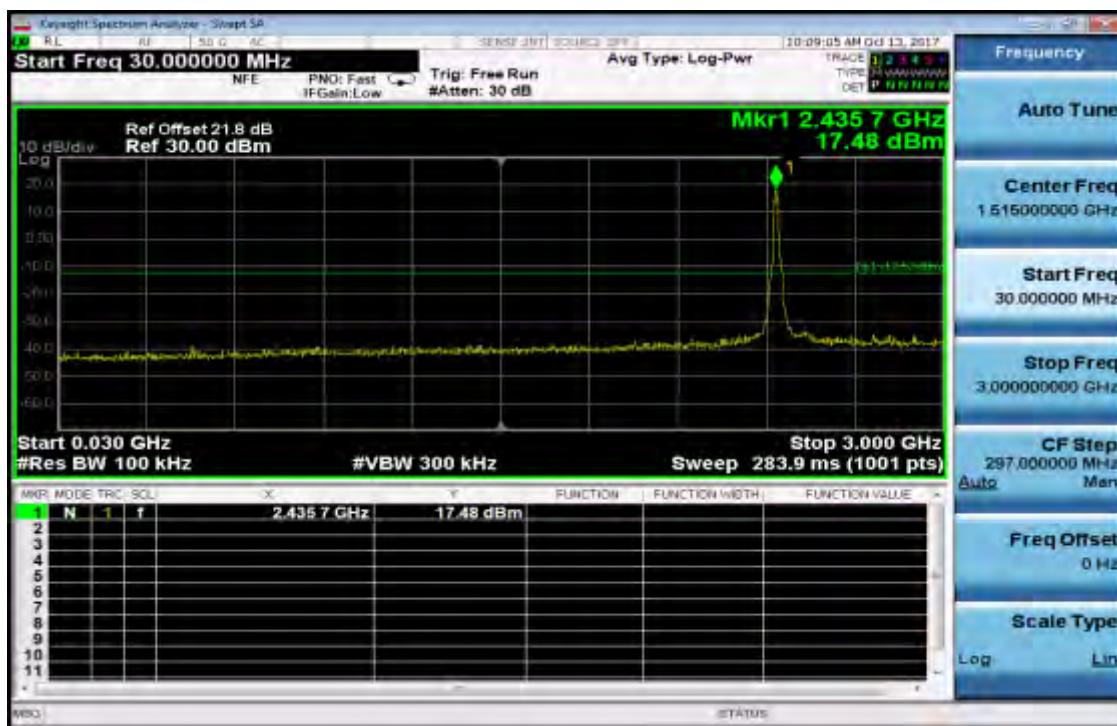


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Spurious Emission Test Data CH-Mid

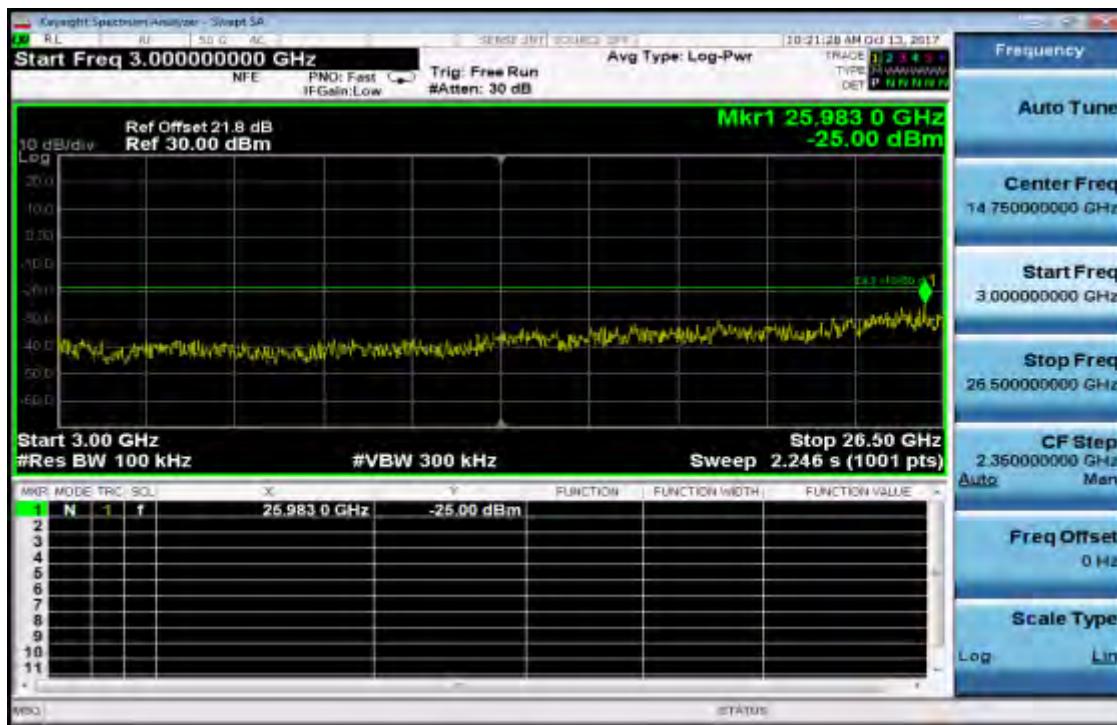
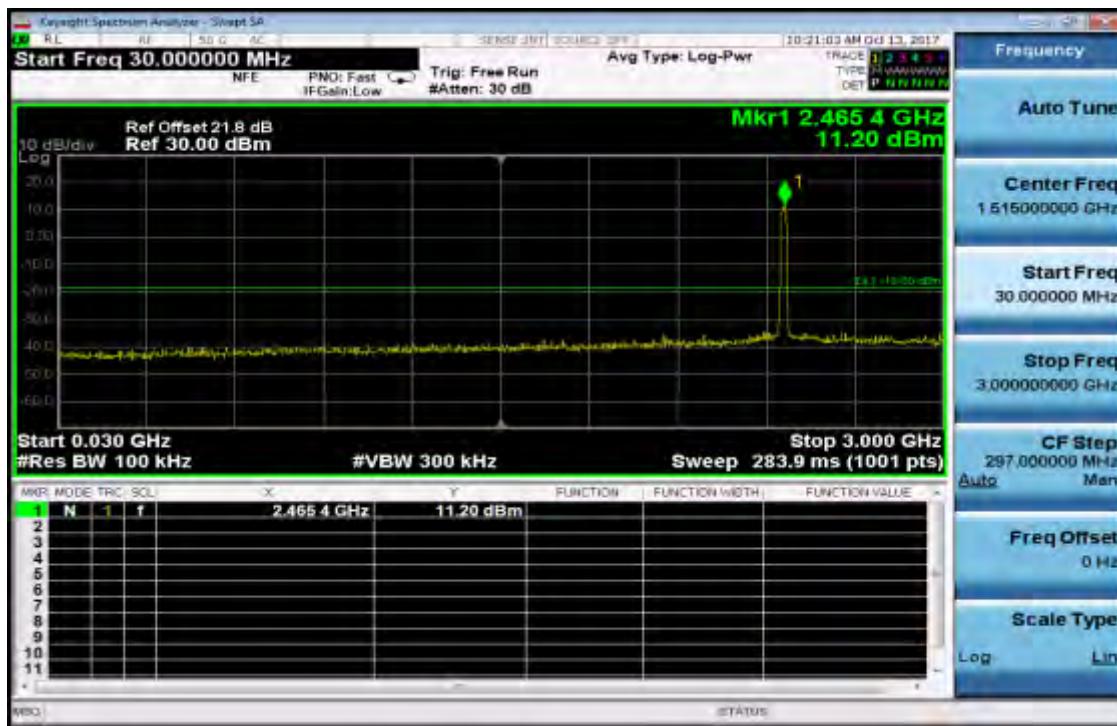


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Spurious Emission Test Data CH-High



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802.11n_HT40

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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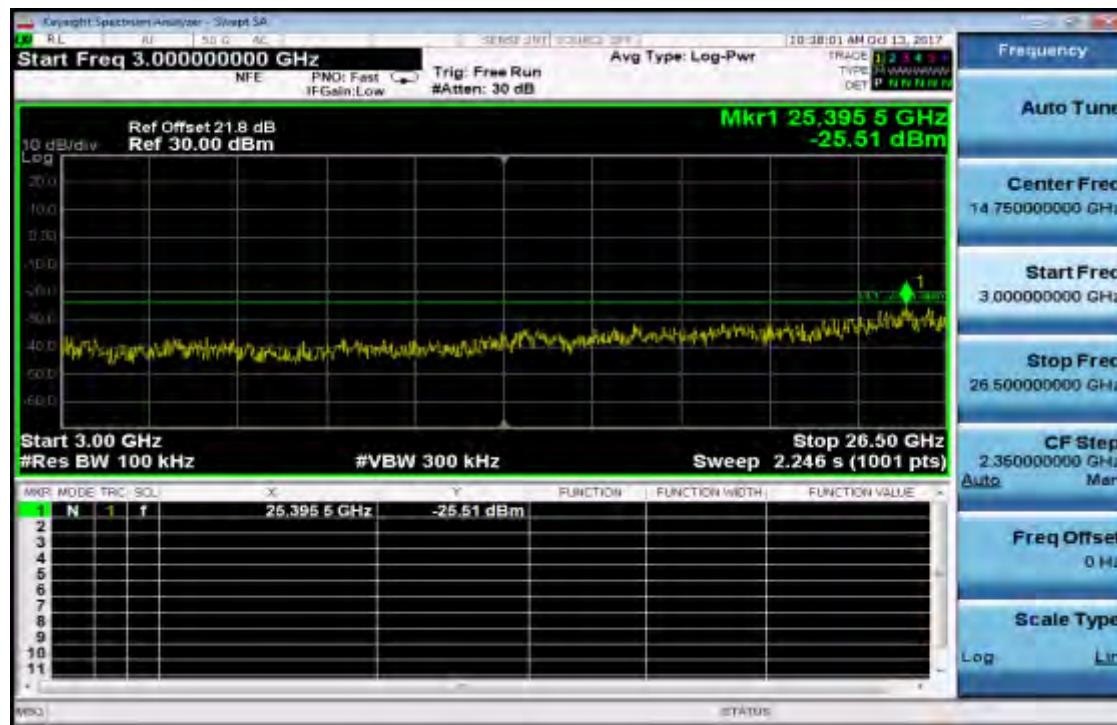
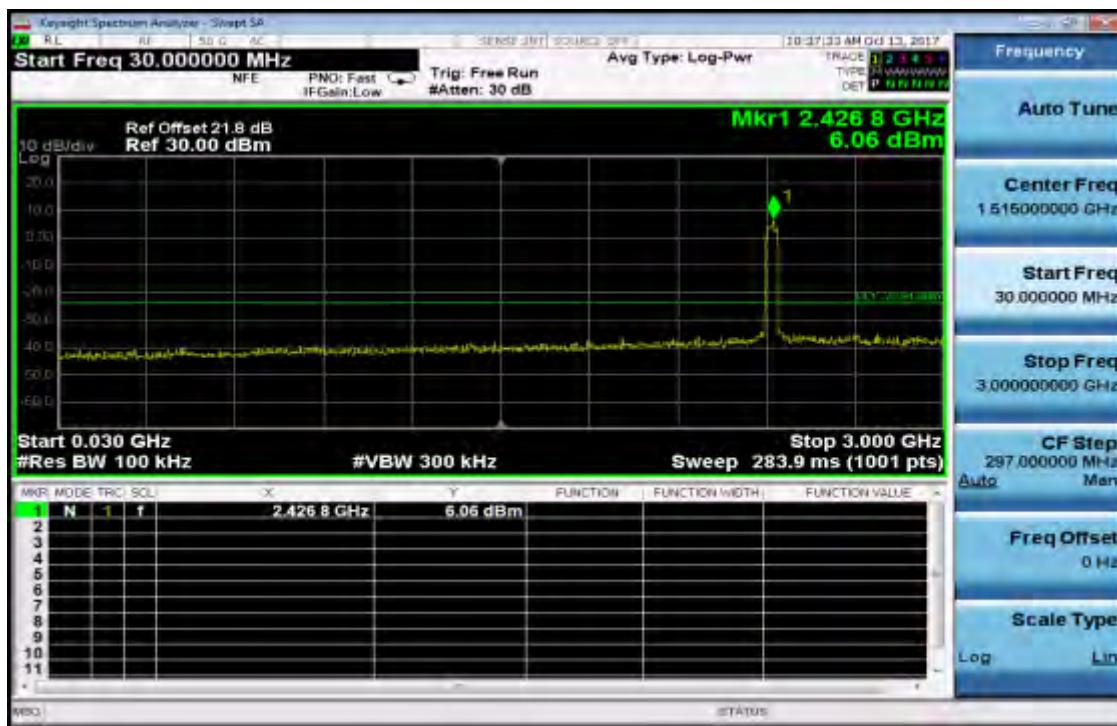
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802.11n_HT40

Spurious Emission Test Data CH-Low

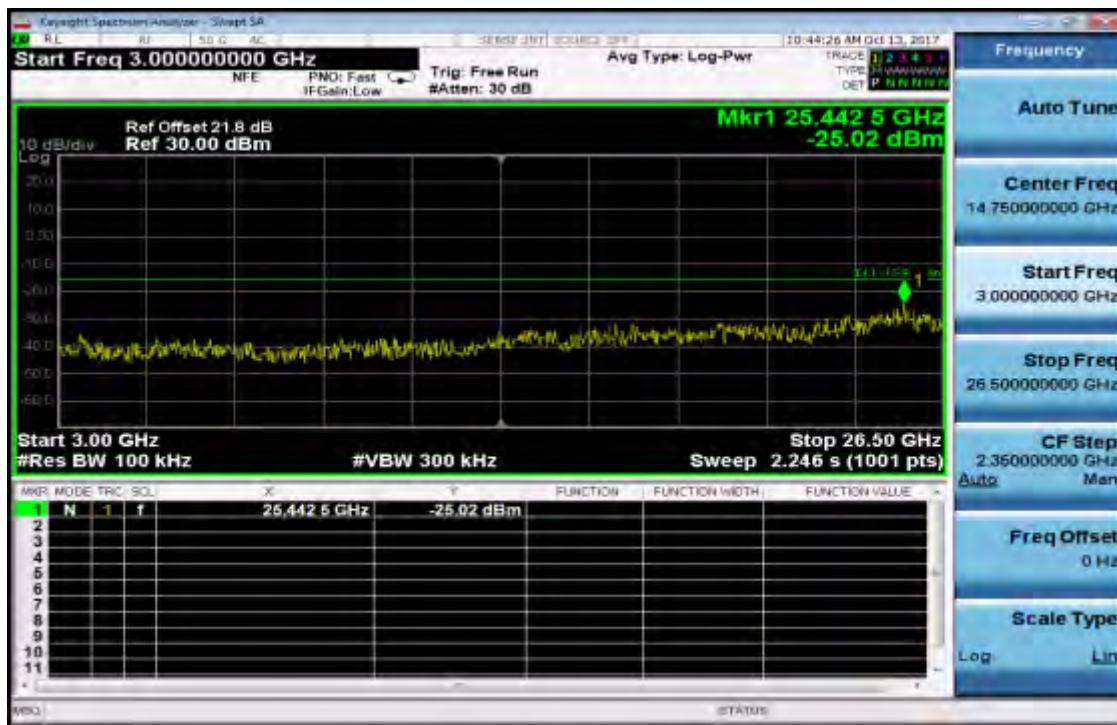
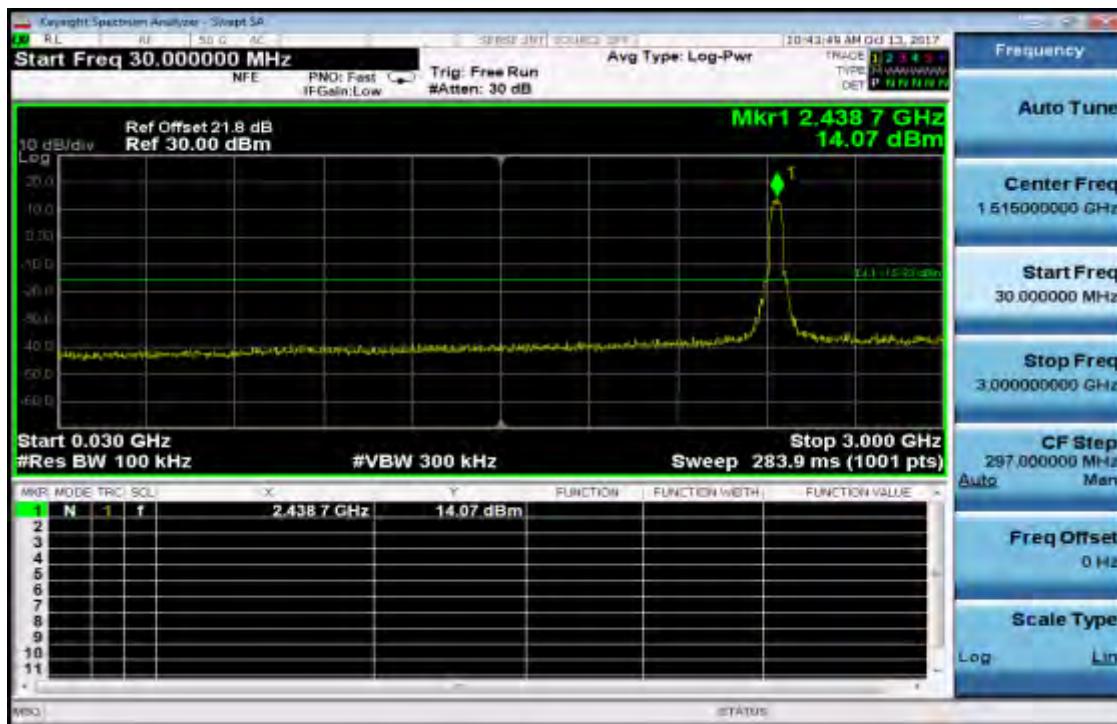


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Spurious Emission Test Data CH-Mid

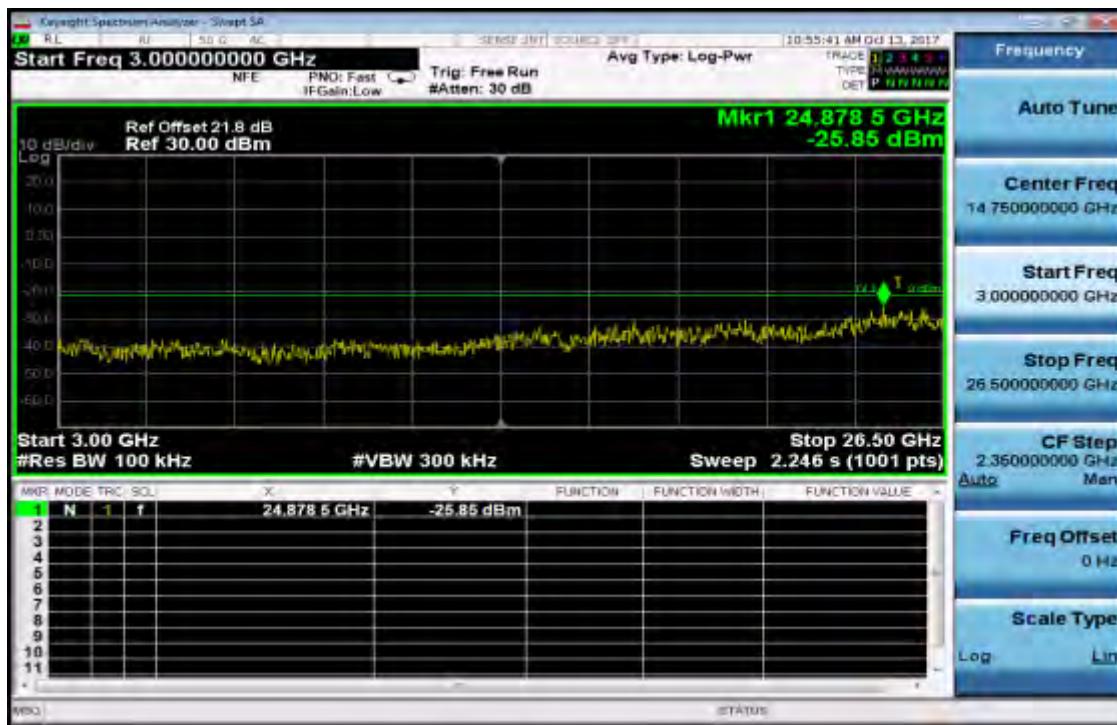
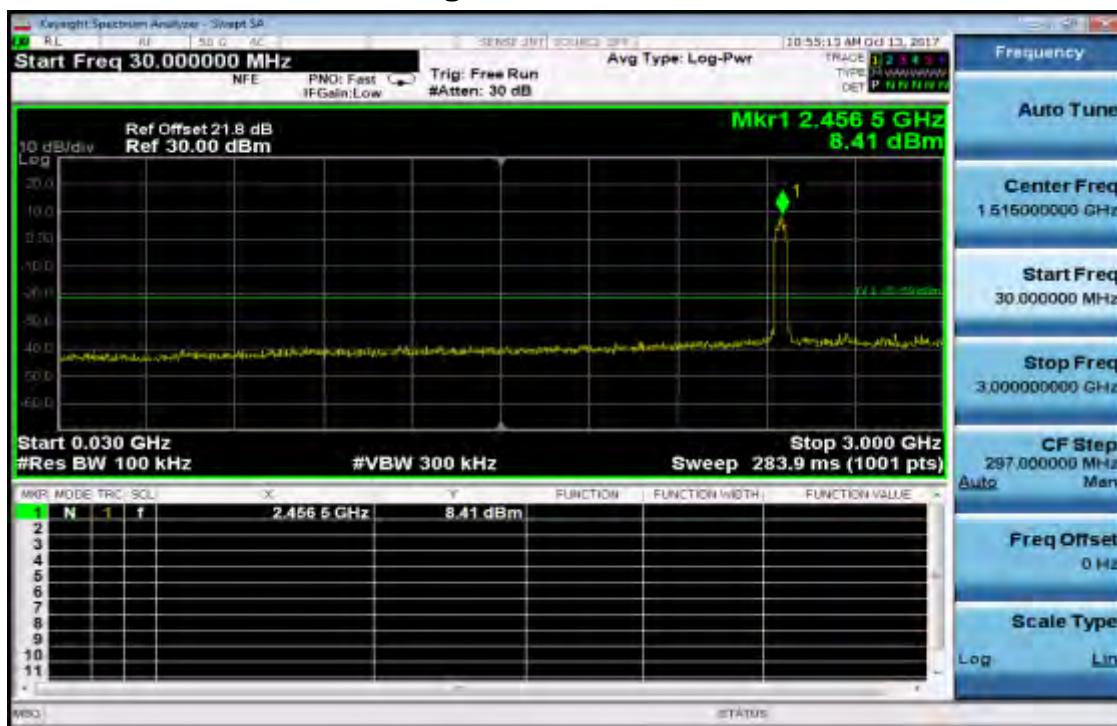


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Spurious Emission Test Data CH-High



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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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

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

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

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

Note:

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

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11.2 Measurement Equipment Used:

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

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

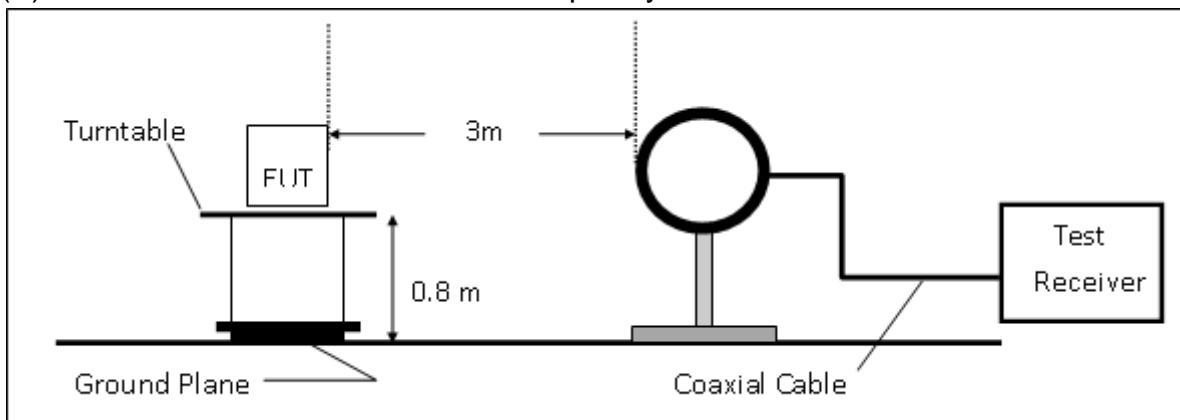
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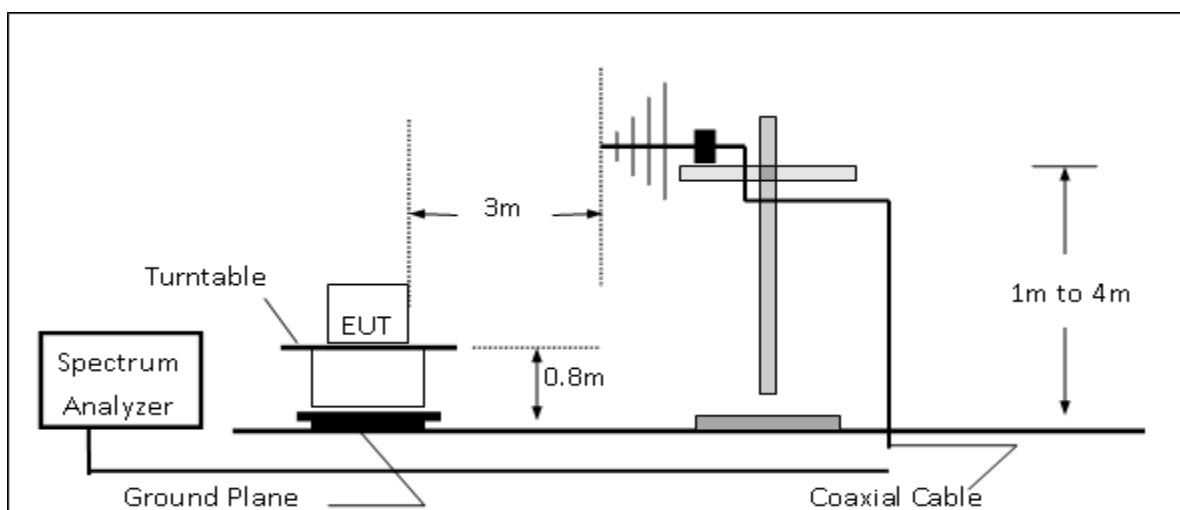
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11.3 Test SET-UP

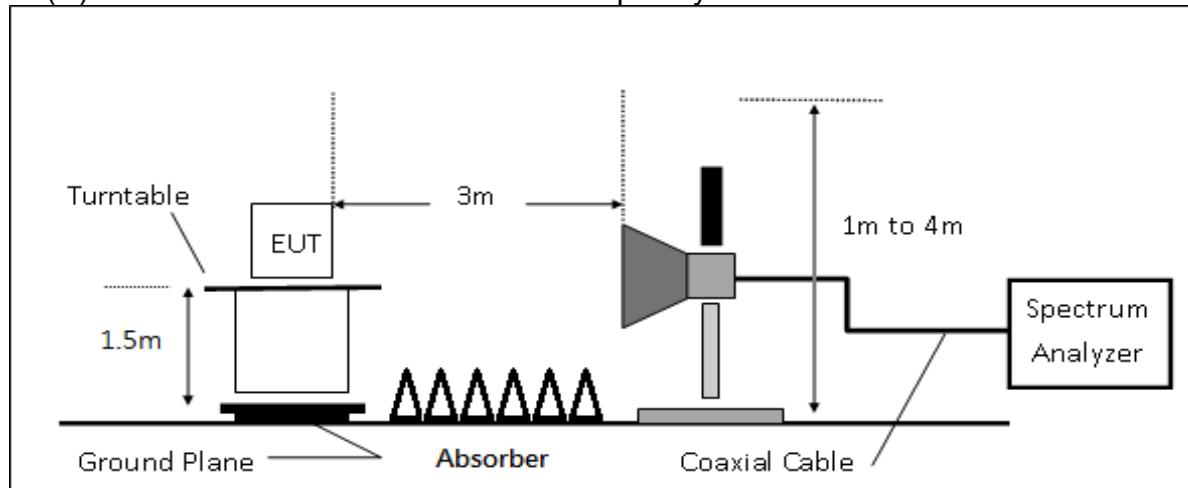
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-UP, Frequency from 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.
13. 802.11n MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna. N=4 for this given application.

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11.5 Field Strength Calculation

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

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

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

Actual FS(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.

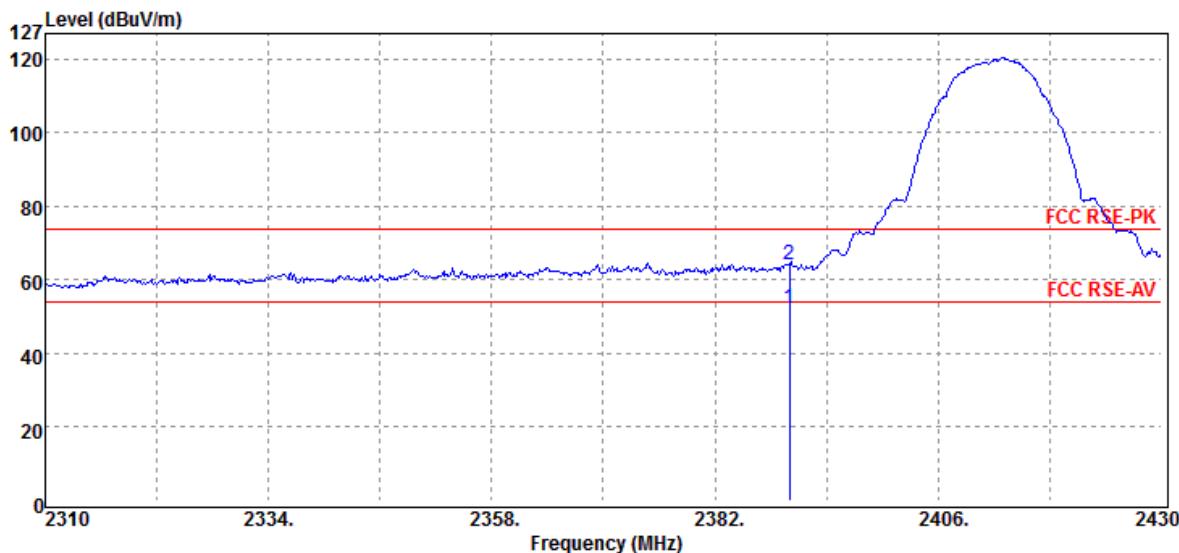
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Radiated Band Edge Measurement Result (802.11b)

Operation Band	:802.11b	Test Date	:2017-10-06
Fundamental Frequency	:2412 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	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				
2390.00	E	Average	54.02	54.02	-1.74	52.28	54.00	-1.72
2390.00	E	Peak	65.84	65.84	-1.74	64.10	74.00	-9.90

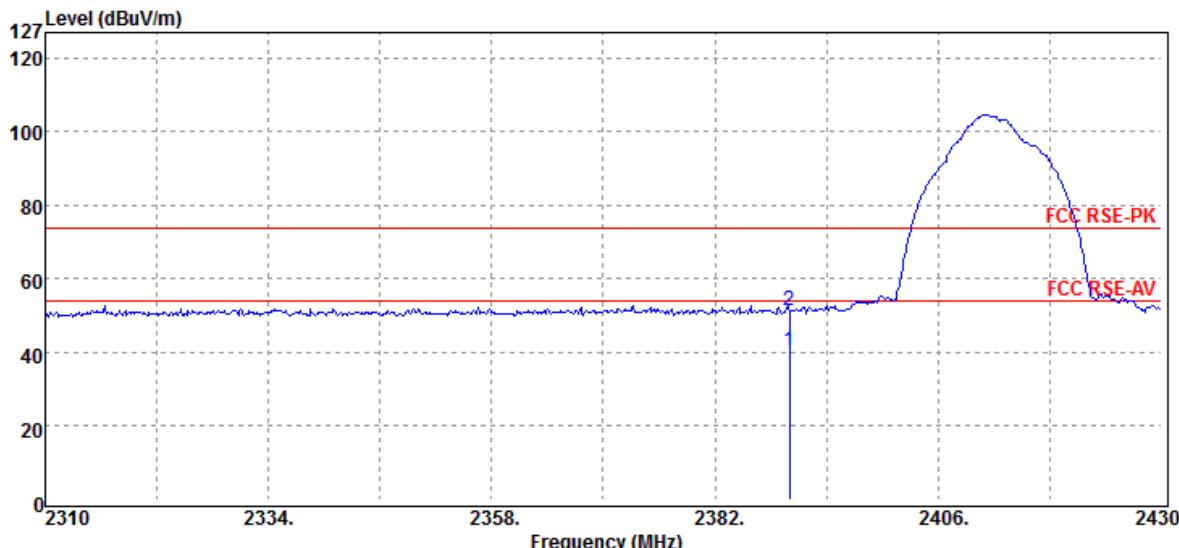
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Operation Band :802.11b
 Fundamental Frequency :2412 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E2 Plane

Test Date :2017-10-06
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 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	Margin dB
			PK/QP/AV	Reading Level dB μ V				
2390.00	E	Average		41.97	-1.74	40.23	54.00	-13.77
2390.00	E	Peak		52.98	-1.74	51.24	74.00	-22.76

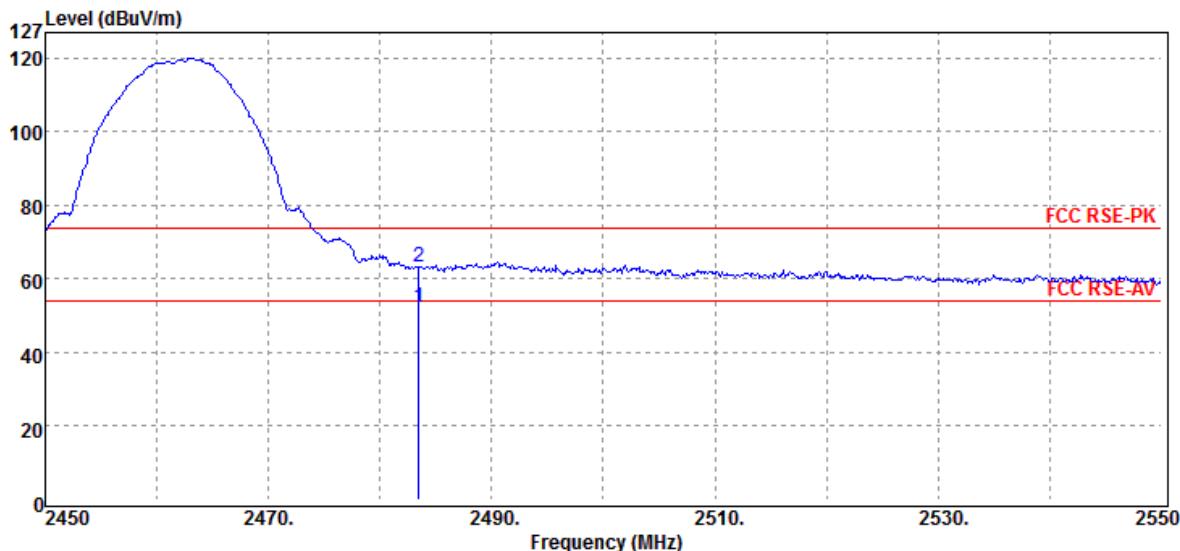
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Operation Band :802.11b
 Fundamental Frequency :2462 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E2 Plane

Test Date :2017-10-11
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 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	53.73	53.73	-1.62	52.11	54.00	-1.89
2483.50	E	Peak	64.81	64.81	-1.62	63.19	74.00	-10.81

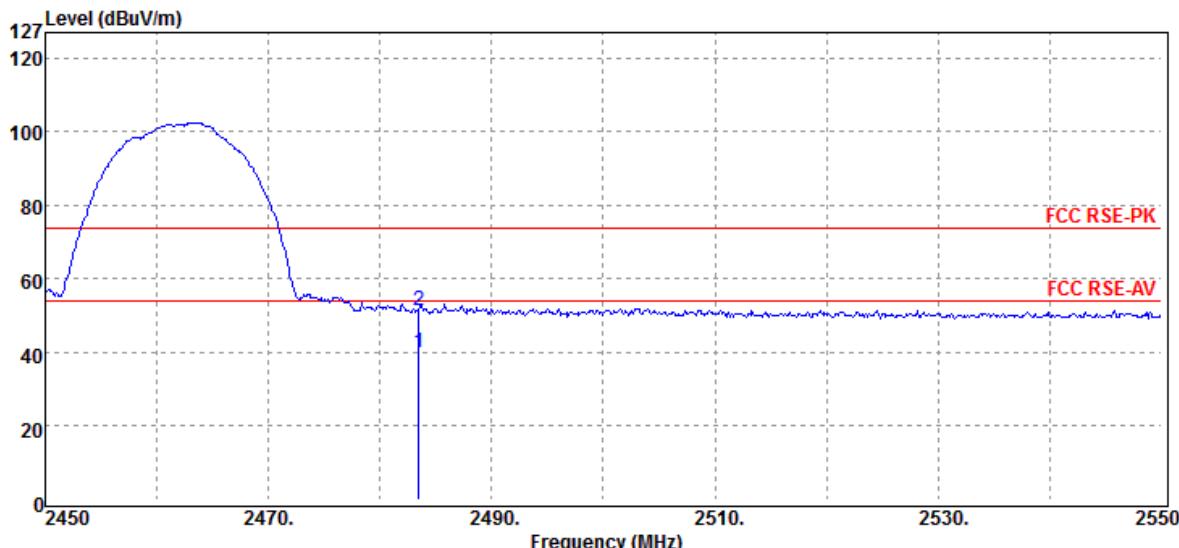
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Operation Band :802.11b
 Fundamental Frequency :2462 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E2 Plane

Test Date :2017-10-06
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 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	Peak	41.79	-1.62	40.17	54.00	-13.83
2483.50	E	Peak	Peak	53.13	-1.62	51.51	74.00	-22.49

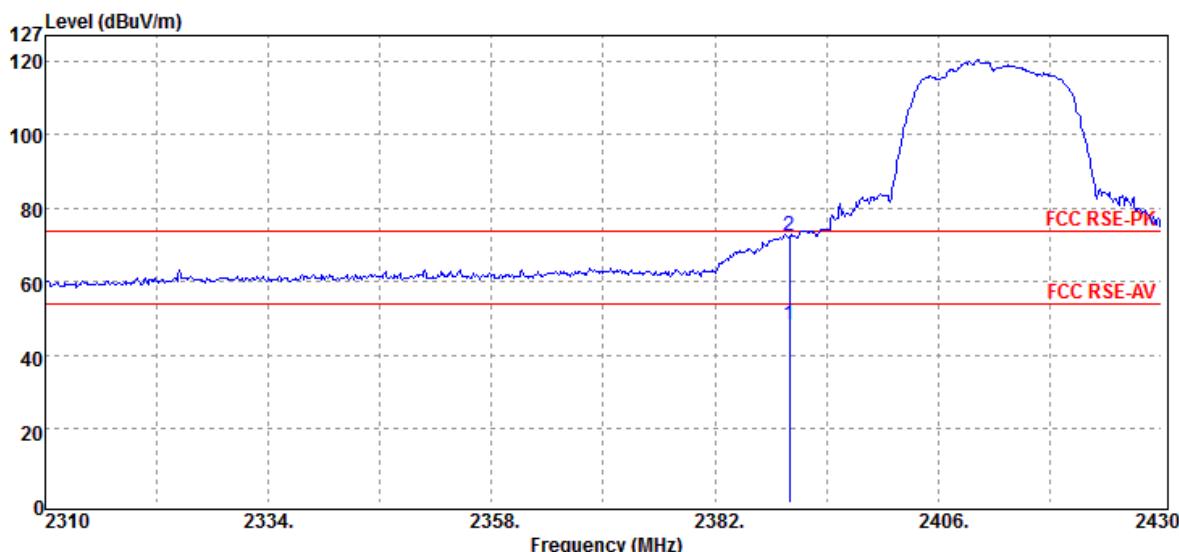
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Radiated Band Edge Measurement Result (802.11g)

Operation Band	:802.11g	Test Date	:2017-09-27
Fundamental Frequency	:2412 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	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				
2390.00	E	Average	50.25	50.25	-1.74	48.51	54.00	-5.49
2390.00	E	Peak	74.32	74.32	-1.74	72.58	74.00	-1.42

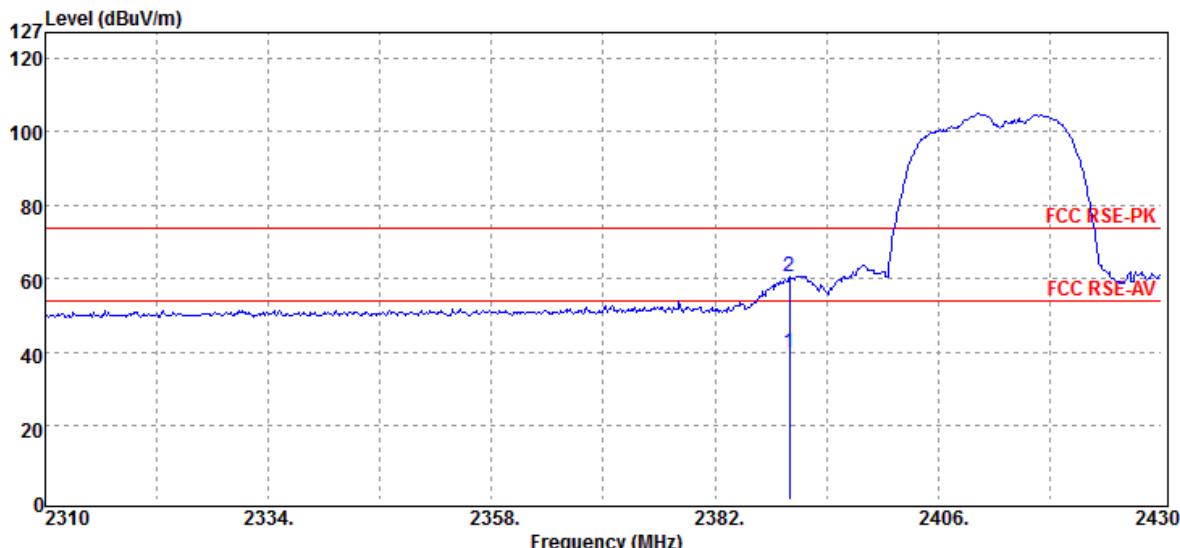
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Operation Band :802.11g
 Fundamental Frequency :2412 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E2 Plane

Test Date :2017-09-27
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 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	Margin dB
			PK/QP/AV	Reading Level dB μ V				
2390.00	E	Average		41.78	-1.74	40.04	54.00	-13.96
2390.00	E	Peak		62.53	-1.74	60.79	74.00	-13.21

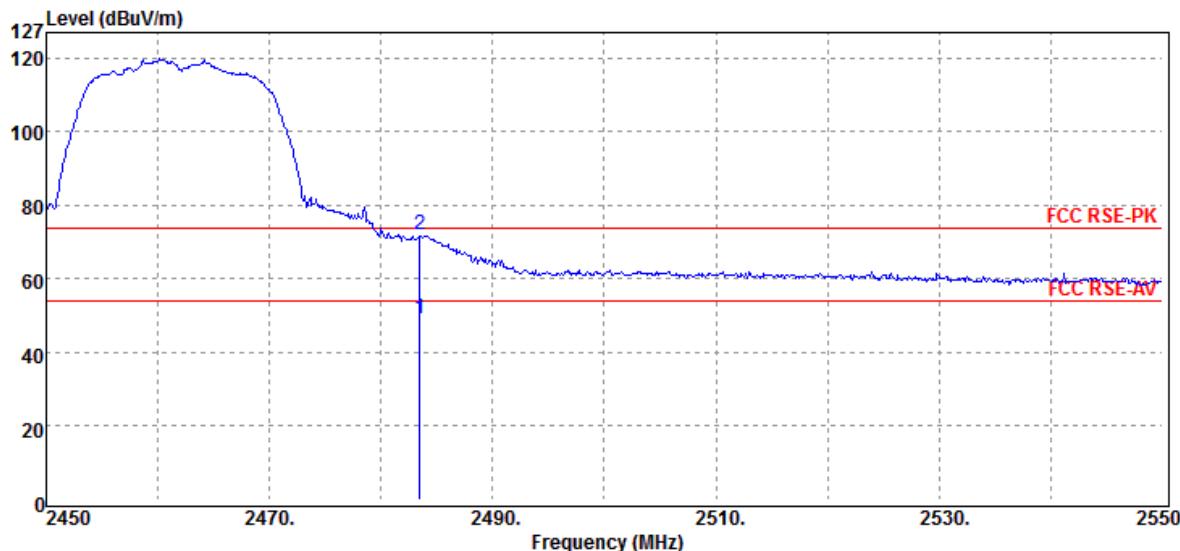
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Operation Band :802.11g
 Fundamental Frequency :2462 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E2 Plane

Test Date :2017-10-11
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 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	50.88	50.88	-1.62	49.26	54.00	-4.74
2483.50	E	Peak	73.73	73.73	-1.62	72.11	74.00	-1.89

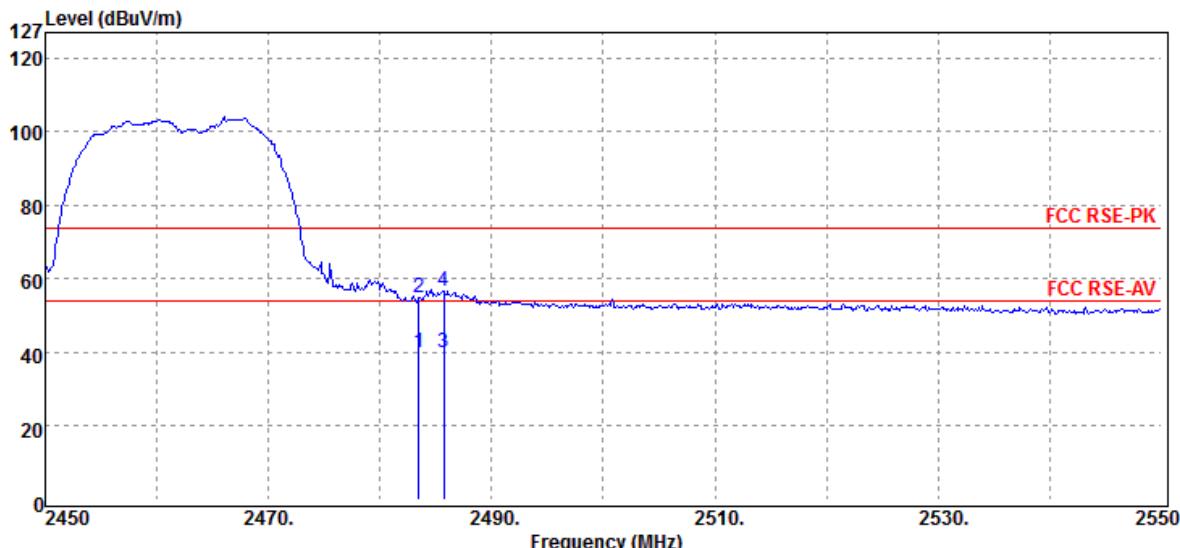
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Operation Band :802.11g
 Fundamental Frequency :2462 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E2 Plane

Test Date :2017-09-27
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 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	41.66	41.66	-1.62	40.04	54.00	-13.96
2483.50	E	Peak	56.54	56.54	-1.62	54.92	74.00	-19.08
2485.70	E	Average	41.71	41.71	-1.62	40.09	54.00	-13.91
2485.70	E	Peak	58.46	58.46	-1.62	56.84	74.00	-17.16

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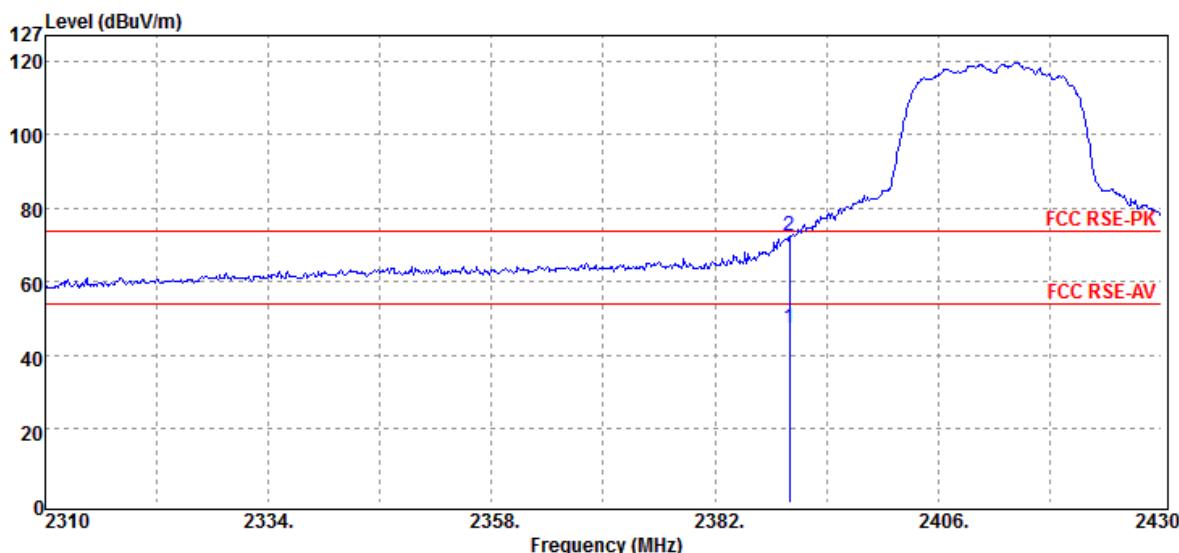
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CDD Mode:

Radiated Band Edge Measurement Result (802.11-HT20)

Operation Band	:802.11n20	Test Date	:2017-09-27
Fundamental Frequency	:2412 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	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				
2390.00	E	Average	49.15	49.15	-1.74	47.41	54.00	-6.59
2390.00	E	Peak	74.21	74.21	-1.74	72.47	74.00	-1.53

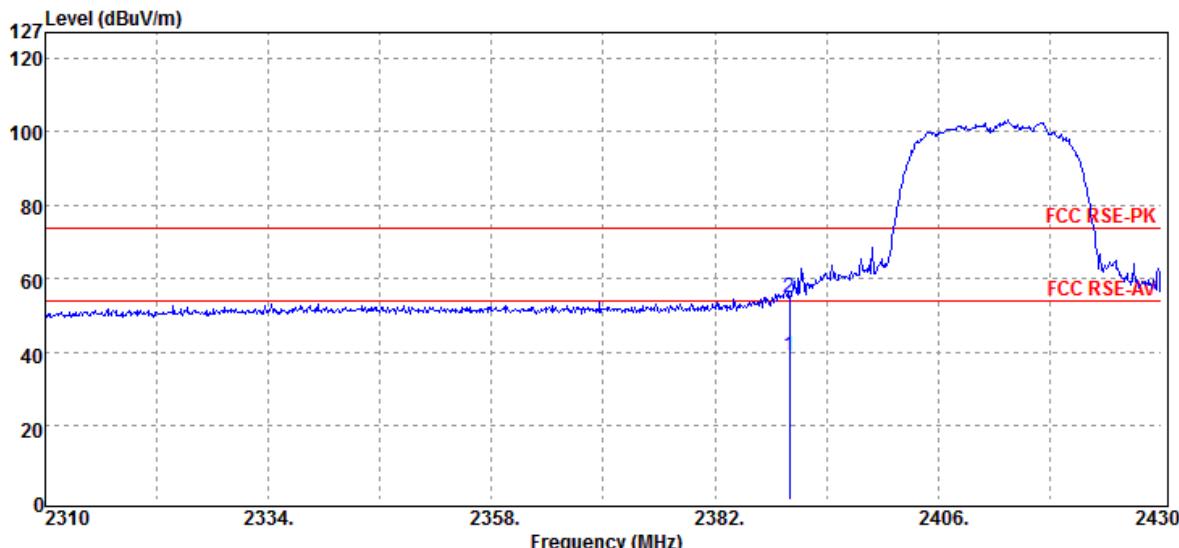
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Operation Band :802.11n20
 Fundamental Frequency :2412 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E2 Plane

Test Date :2017-09-27
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 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	Margin dB
			PK/QP/AV	Reading Level dB μ V				
2390.00	E	Average		40.98	-1.74	39.24	54.00	-14.76
2390.00	E	Peak		56.80	-1.74	55.06	74.00	-18.94

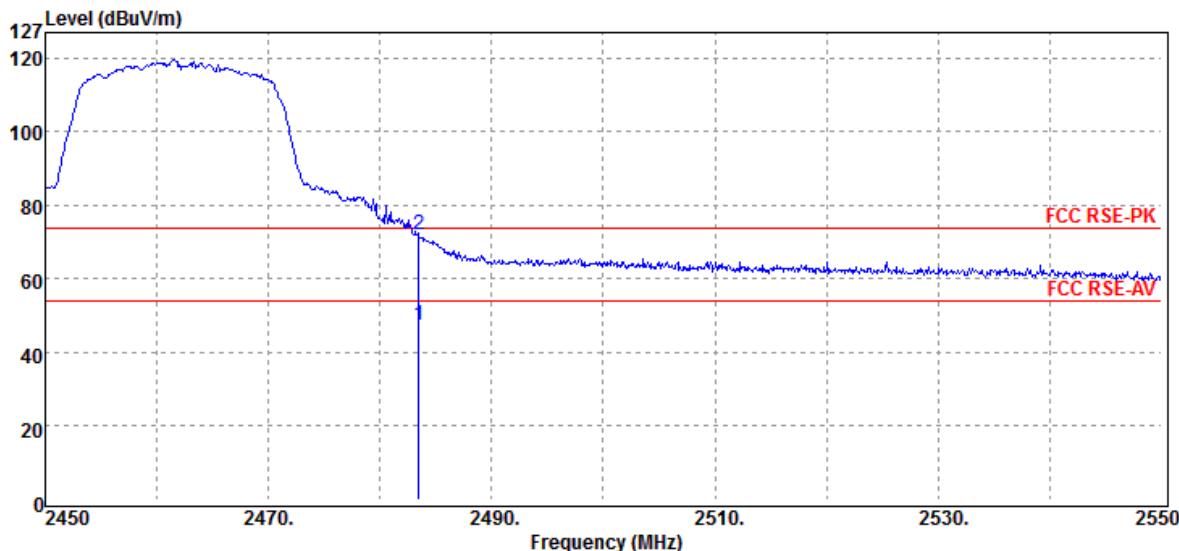
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Operation Band :802.11n20
 Fundamental Frequency :2462 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E2 Plane

Test Date :2017-10-11
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 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	Peak	48.86	-1.62	47.24	54.00	-6.76
2483.50	E	Peak	Peak	73.86	-1.62	72.24	74.00	-1.76

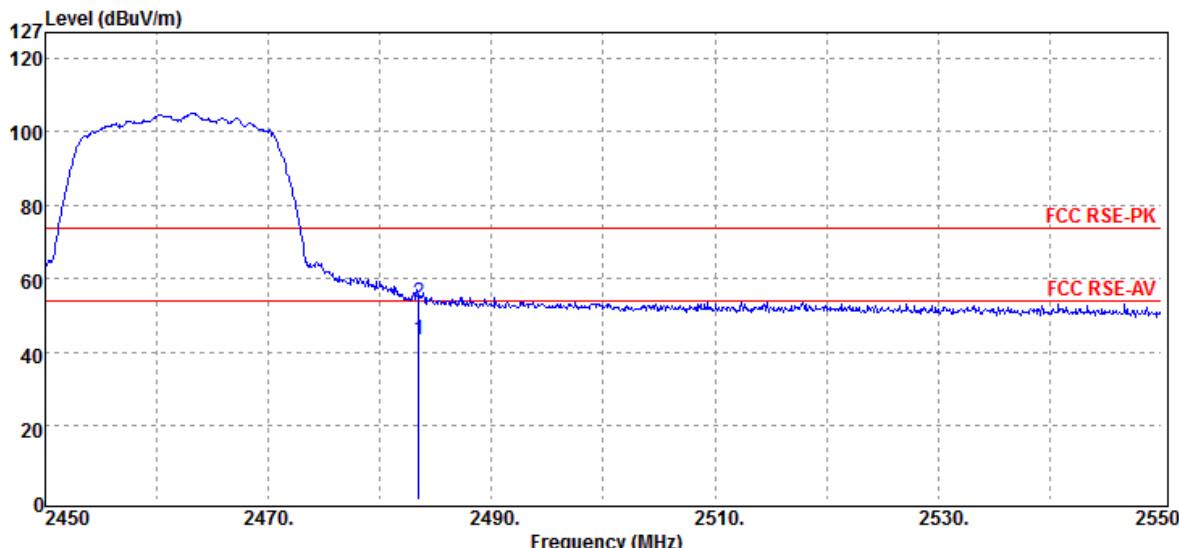
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Operation Band :802.11n20
 Fundamental Frequency :2462 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E2 Plane

Test Date :2017-09-27
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 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	45.07	45.07	-1.62	43.45	54.00	-10.55
2483.50	E	Peak	55.26	55.26	-1.62	53.64	74.00	-20.36

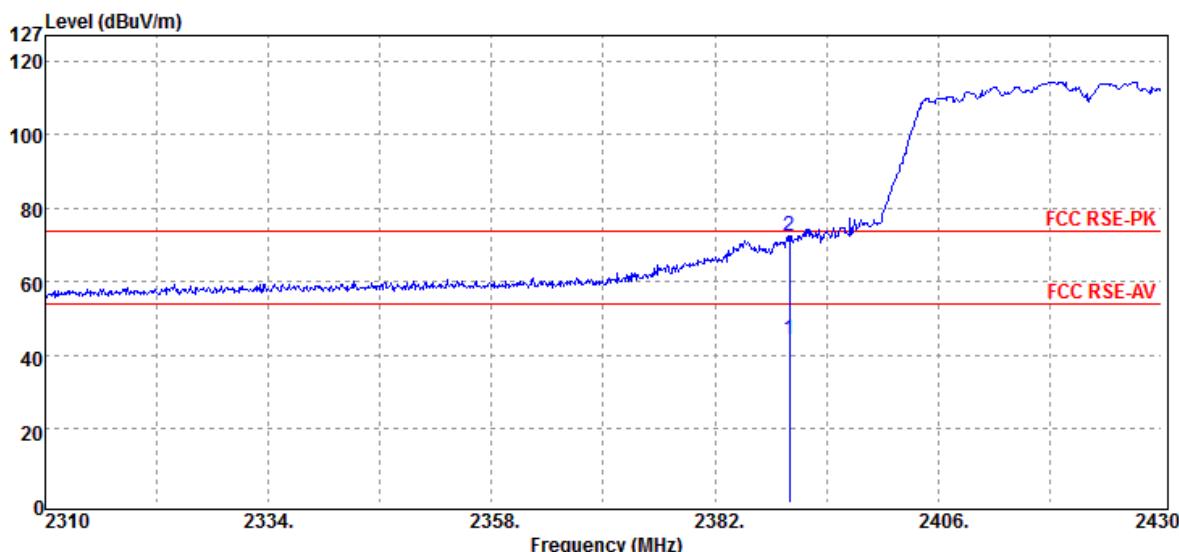
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Radiated Band Edge Measurement Result (802.11_HT40)

Operation Band	:802.11n40	Test Date	:2017-09-27
Fundamental Frequency	:2422 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	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				
2390.00	E	Average	46.11	46.11	-1.74	44.37	54.00	-9.63
2390.00	E	Peak	74.06	74.06	-1.74	72.32	74.00	-1.68

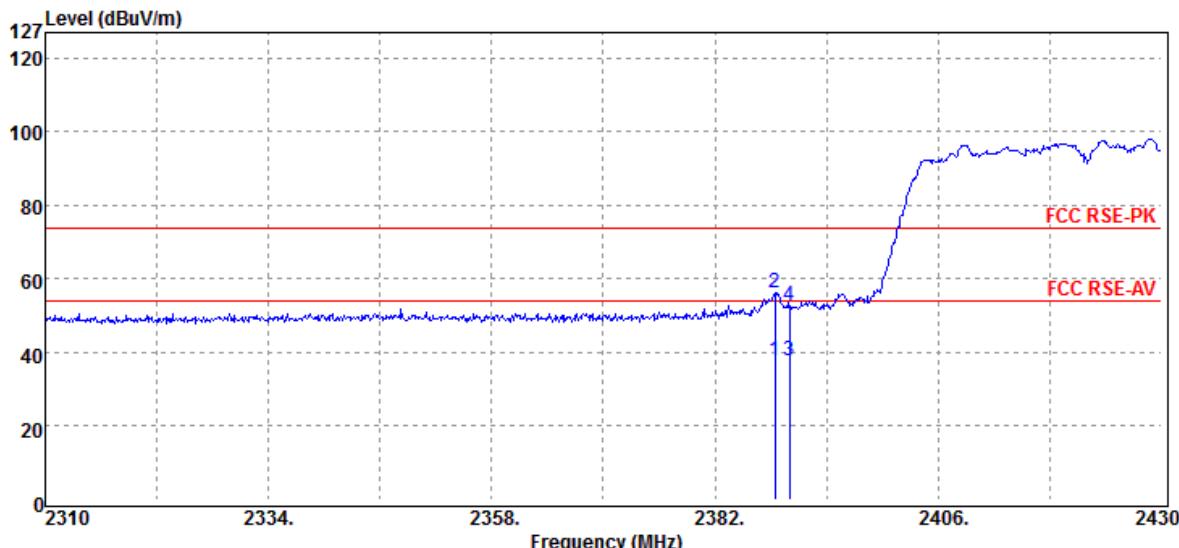
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Operation Band :802.11n40
 Fundamental Frequency :2422 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E2 Plane

Test Date :2017-09-27
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 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				
2388.48	E	Average	39.65	39.65	-1.73	37.92	54.00	-16.08
2388.48	E	Peak	57.98	57.98	-1.73	56.25	74.00	-17.75
2390.00	E	Average	39.64	39.64	-1.74	37.90	54.00	-16.10
2390.00	E	Peak	54.31	54.31	-1.74	52.57	74.00	-21.43

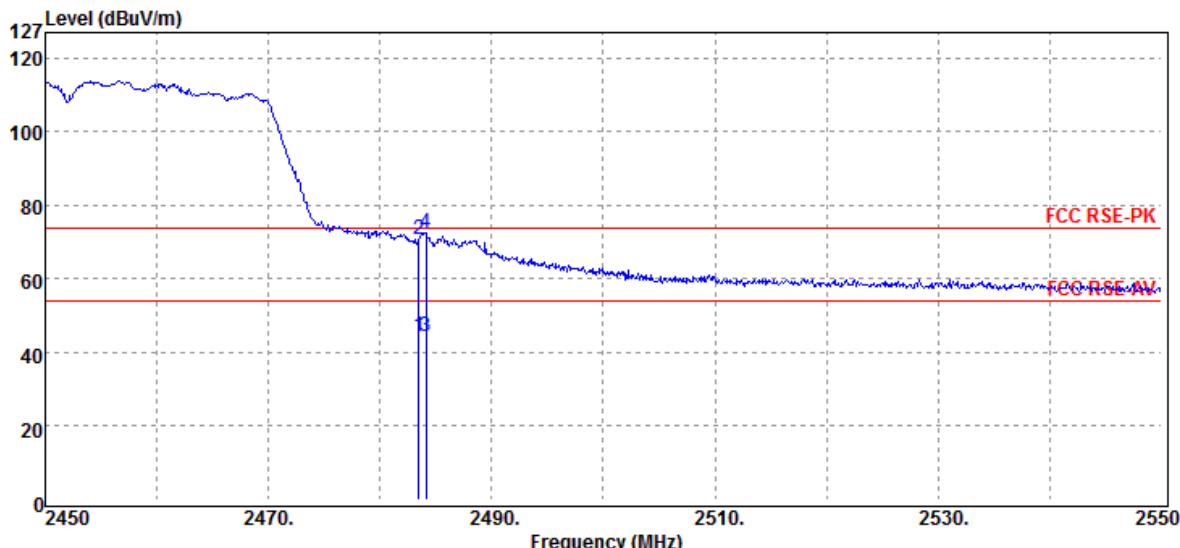
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Operation Band :802.11n40
 Fundamental Frequency :2422 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E2 Plane

Test Date :2017-09-27
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 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	46.15	46.15	-1.62	44.53	54.00	-9.47
2483.50	E	Peak	72.35	72.35	-1.62	70.73	74.00	-3.27
2484.10	E	Average	46.11	46.11	-1.62	44.49	54.00	-9.51
2484.10	E	Peak	74.11	74.11	-1.62	72.49	74.00	-1.51

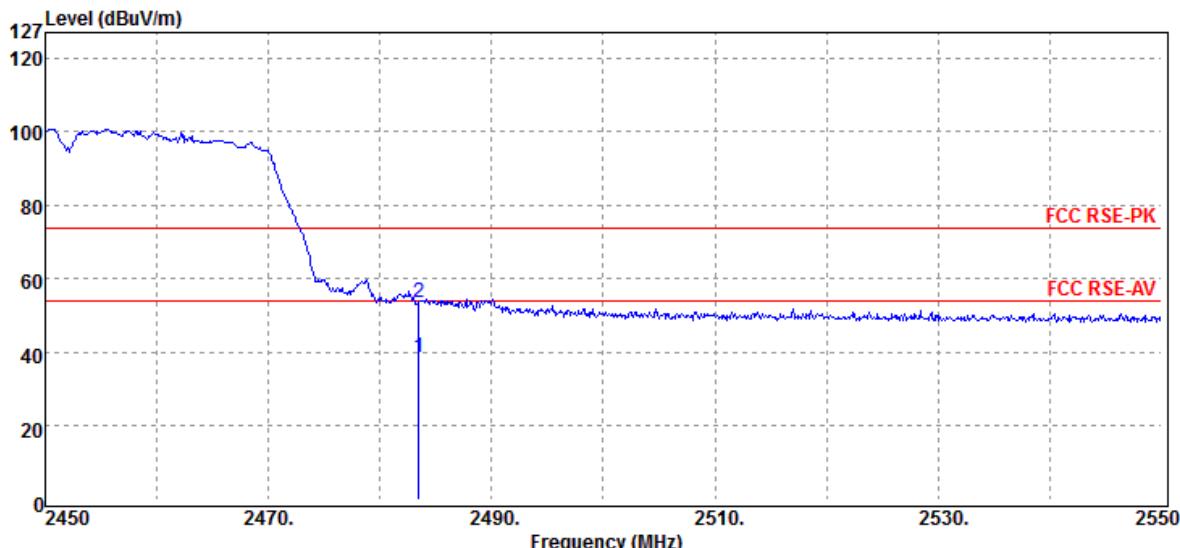
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Operation Band :802.11n40
 Fundamental Frequency :2422 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E2 Plane

Test Date :2017-09-27
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 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	40.11	40.11	-1.62	38.49	54.00	-15.51
2483.50	E	Peak	55.36	55.36	-1.62	53.74	74.00	-20.26

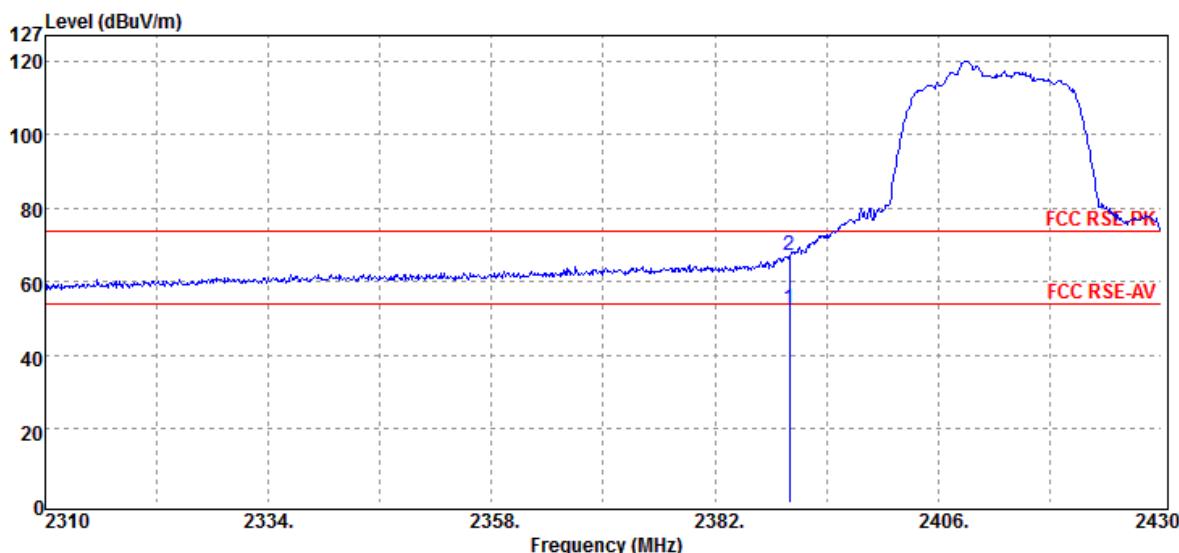
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Beam Forming Mode:**Radiated Band Edge Measurement Result (802.11-HT20)**

Operation Band	:802.11n20	Test Date	:2017-09-28
Fundamental Frequency	:2412 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	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				
2390.00	E	Average	54.48	54.48	-1.74	52.74	54.00	-1.26
2390.00	E	Peak	68.94	68.94	-1.74	67.20	74.00	-6.80

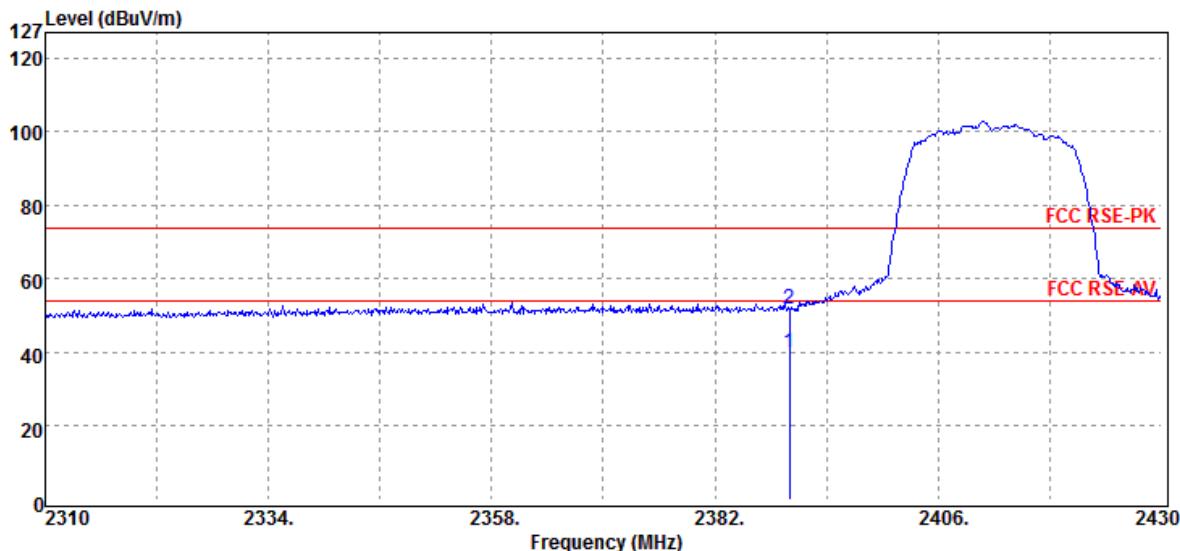
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Operation Band :802.11n20
 Fundamental Frequency :2412 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E2 Plane

Test Date :2017-09-28
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 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	Margin dB
			PK/QP/AV	Reading Level dB μ V				
2390.00	E	Average	41.63	41.63	-1.74	39.89	54.00	-14.11
2390.00	E	Peak	53.64	53.64	-1.74	51.90	74.00	-22.10

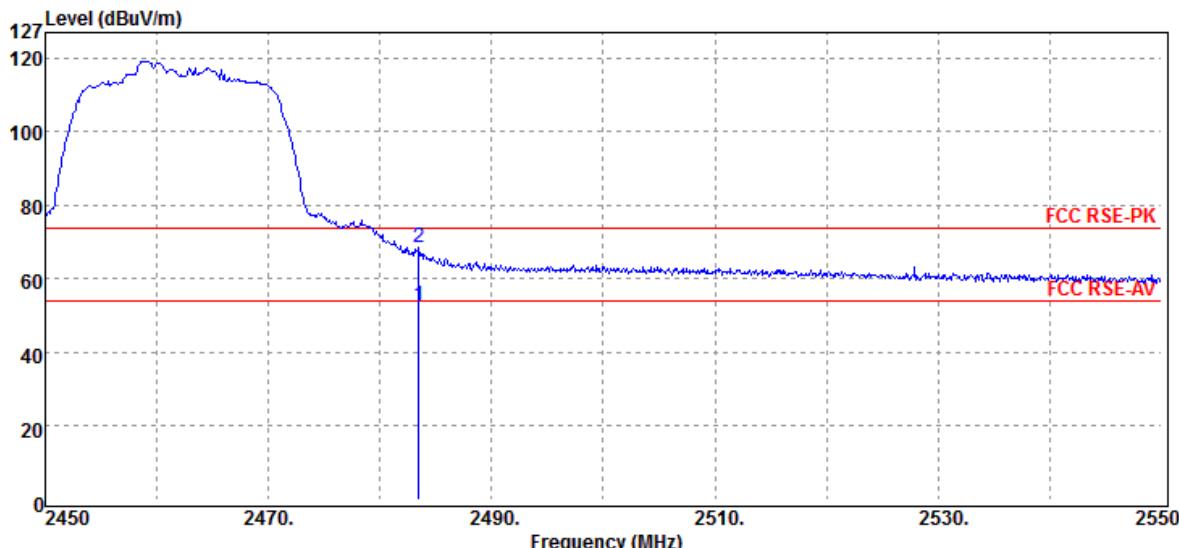
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Operation Band :802.11n20
 Fundamental Frequency :2462 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E2 Plane

Test Date :2017-09-28
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 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	54.26	54.26	-1.62	52.64	54.00	-1.36
2483.50	E	Peak	70.06	70.06	-1.62	68.44	74.00	-5.56

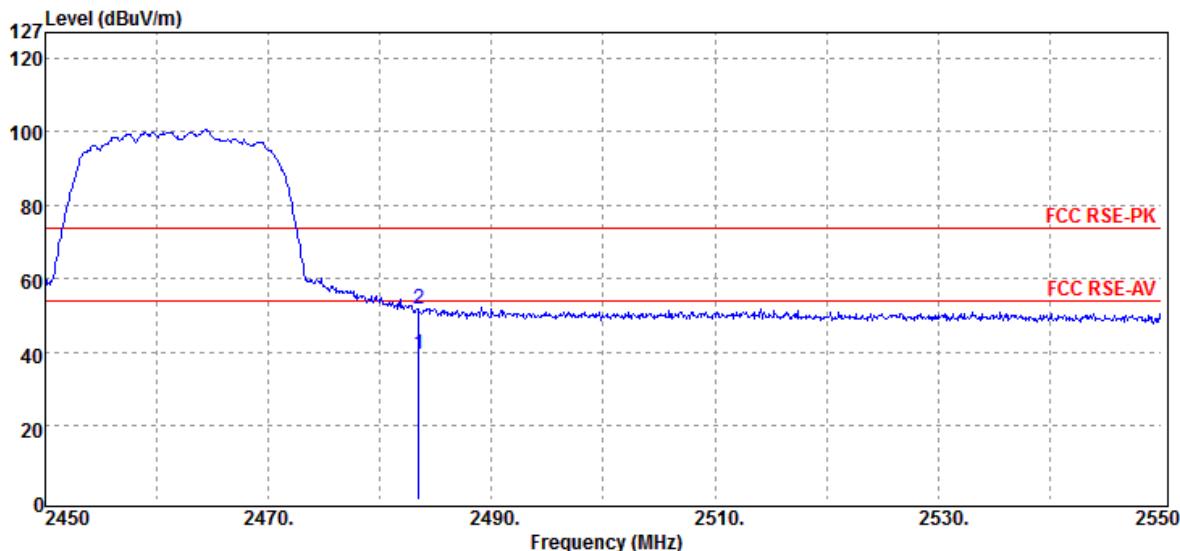
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Operation Band :802.11n20
 Fundamental Frequency :2462 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E2 Plane

Test Date :2017-09-28
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 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	41.01	41.01	-1.62	39.39	54.00	-14.61
2483.50	E	Peak	53.29	53.29	-1.62	51.67	74.00	-22.33

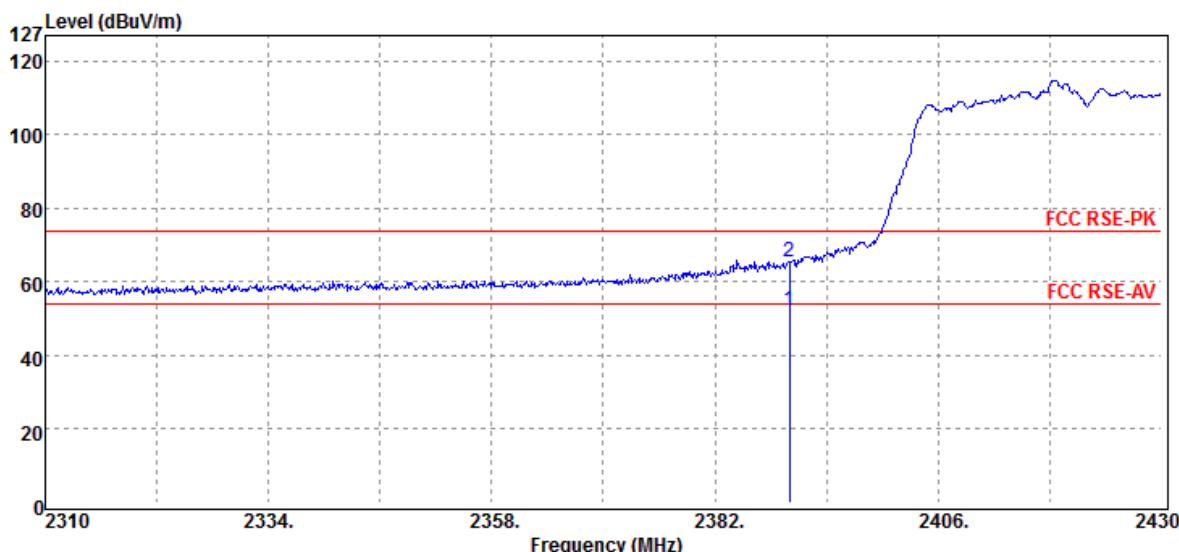
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Radiated Band Edge Measurement Result (802.11_HT40)

Operation Band	:802.11n40	Test Date	:2017-10-11
Fundamental Frequency	:2422 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	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				
2390.00	E	Average	53.96	53.96	-1.74	52.22	54.00	-1.78
2390.00	E	Peak	67.22	67.22	-1.74	65.48	74.00	-8.52

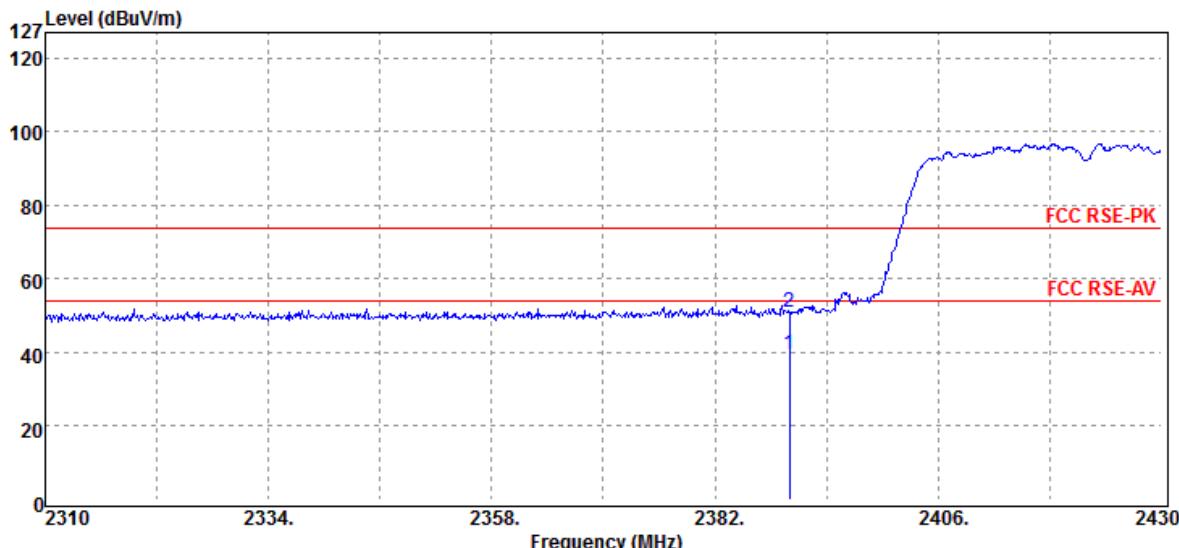
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Operation Band :802.11n40
 Fundamental Frequency :2422 MHz
 Operation Mode :Bandedge CH LOW
 EUT Pol. :E2 Plane

Test Date :2017-09-28
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 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	Margin dB
			PK/QP/AV	Reading Level dB μ V				
2390.00	E	Average		41.11	-1.74	39.37	54.00	-14.63
2390.00	E	Peak		52.72	-1.74	50.98	74.00	-23.02

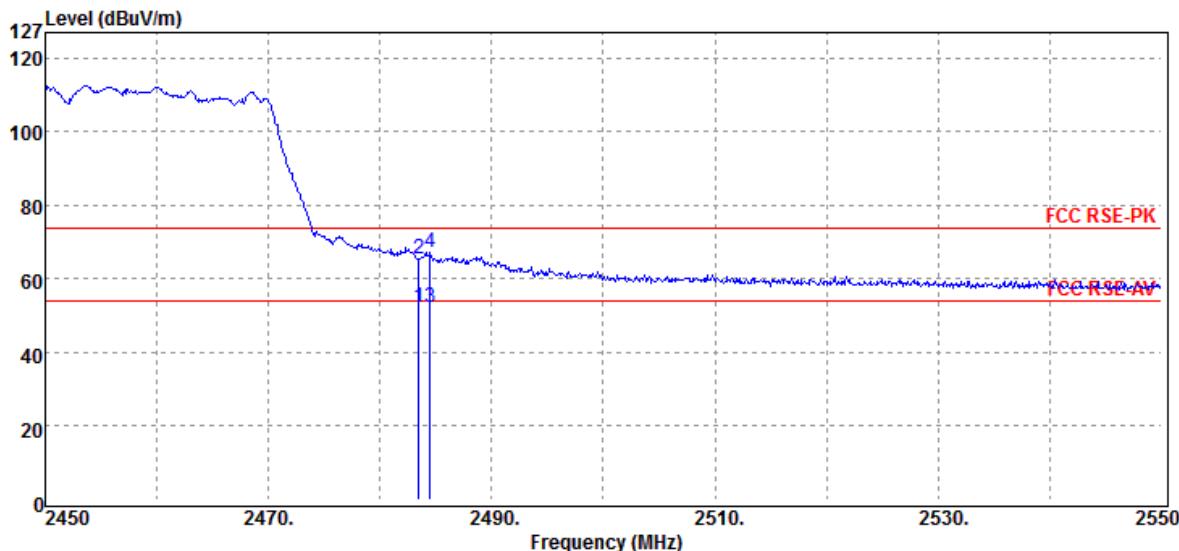
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Operation Band :802.11n40
 Fundamental Frequency :2422 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E2 Plane

Test Date :2017-09-28
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 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	53.98	53.98	-1.62	52.36	54.00	-1.64
2483.50	E	Peak	67.31	67.31	-1.62	65.69	74.00	-8.31
2484.50	E	Average	53.96	53.96	-1.62	52.34	54.00	-1.66
2484.50	E	Peak	68.95	68.95	-1.62	67.33	74.00	-6.67

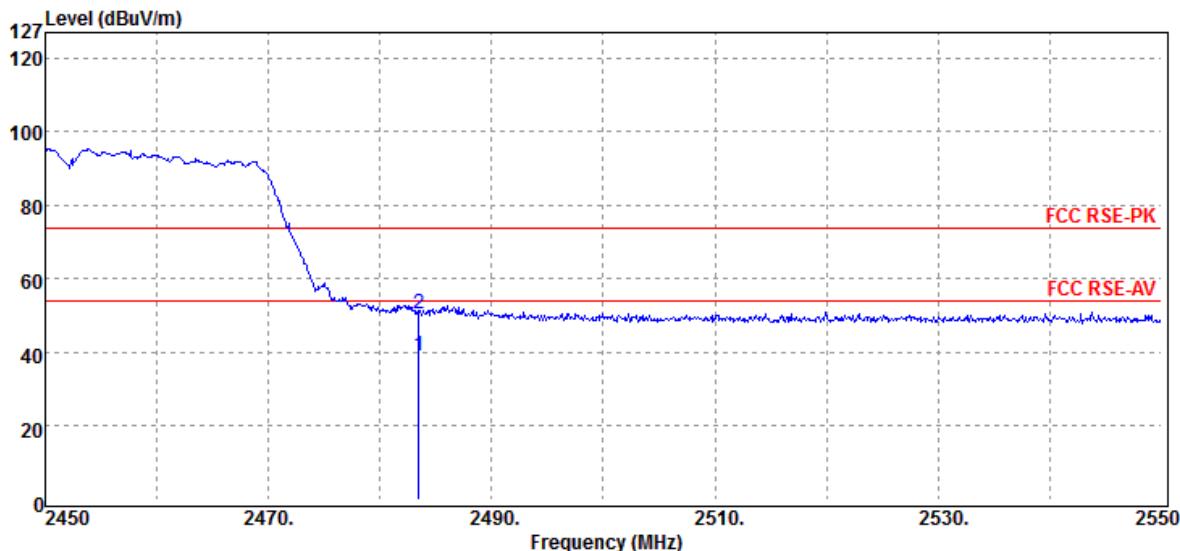
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Operation Band :802.11n40
 Fundamental Frequency :2422 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :E2 Plane

Test Date :2017-09-28
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 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	Peak	40.65	-1.62	39.03	54.00	-14.97
2483.50	E	Peak	Peak	52.06	-1.62	50.44	74.00	-23.56

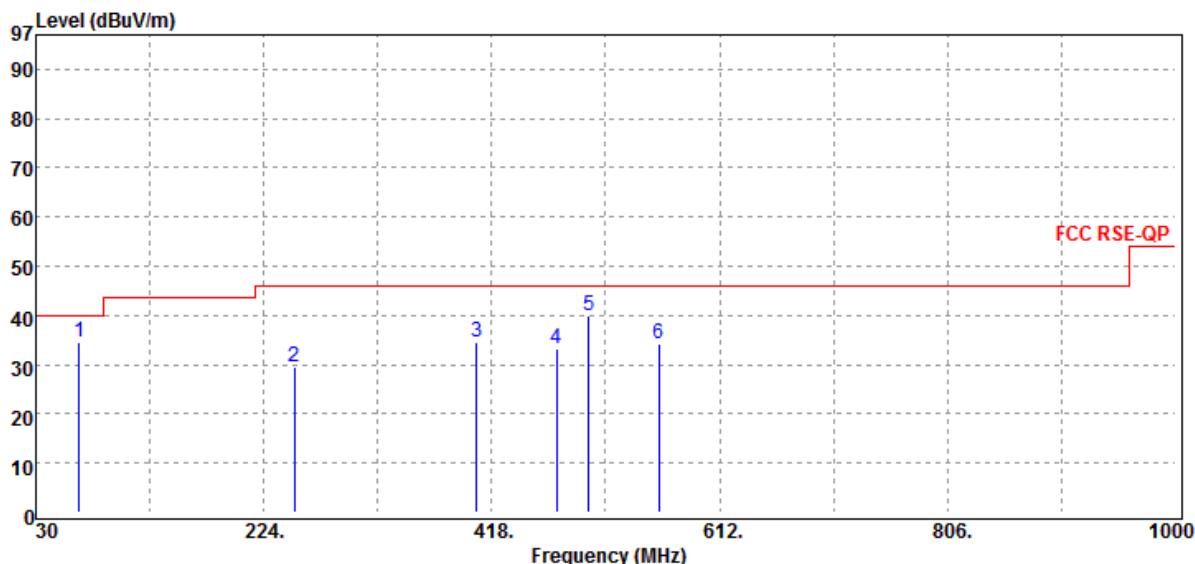
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Below 1GHz Worst-Case Data:**Radiated Spurious Emission Measurement Result (802.11 g)**

Operation Band	:802.11g	Test Date	:2017-10-11
Fundamental Frequency	:2412 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			dB μ V					
66.86	S	Peak	44.18		-9.58	34.60	40.00	-5.40
250.19	S	Peak	37.58		-7.93	29.65	46.00	-16.35
405.39	S	Peak	38.44		-3.70	34.74	46.00	-11.26
473.29	S	Peak	35.61		-2.51	33.10	46.00	-12.90
500.45	S	Peak	42.70		-2.68	40.02	46.00	-5.98
560.59	S	Peak	35.64		-1.40	34.24	46.00	-11.76

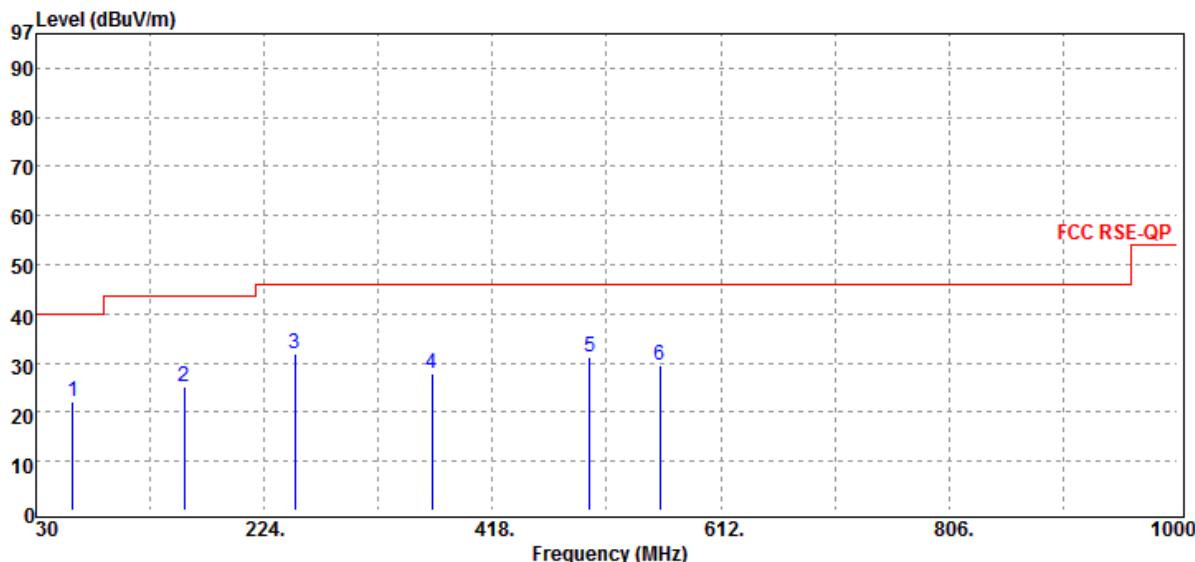
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Operation Band :802.11g
 Fundamental Frequency :2412 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane

Test Date :2017-10-11
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 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	Margin dB
			PK/QP/AV	Reading Level dB μ V				
61.04	S	Peak	30.49	-8.25	22.24	40.00	-17.76	
156.10	S	Peak	32.75	-7.61	25.14	43.50	-18.36	
250.19	S	Peak	39.85	-7.93	31.92	46.00	-14.08	
366.59	S	Peak	32.72	-4.72	28.00	46.00	-18.00	
500.45	S	Peak	33.85	-2.68	31.17	46.00	-14.83	
560.59	S	Peak	30.77	-1.40	29.37	46.00	-16.63	

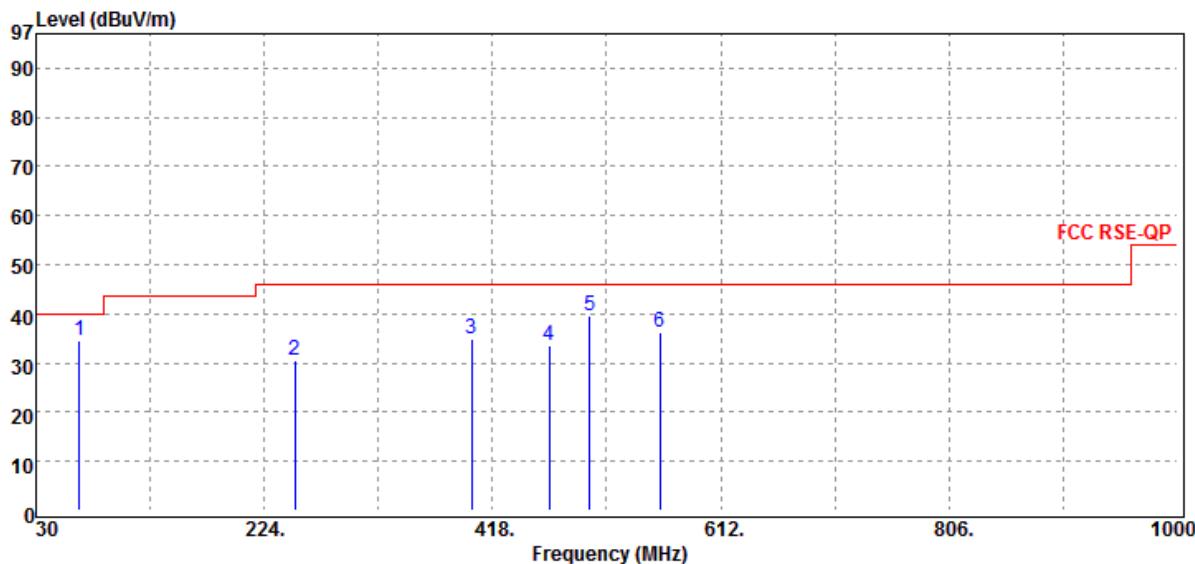
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Operation Band :802.11g
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E2 Plane

Test Date :2017-10-11
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 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				
66.86	S	Peak	44.12	-9.58	34.54	40.00	-5.46	
250.19	S	Peak	38.40	-7.93	30.47	46.00	-15.53	
400.54	S	Peak	38.70	-3.94	34.76	46.00	-11.24	
466.50	S	Peak	36.01	-2.55	33.46	46.00	-12.54	
500.45	S	Peak	42.23	-2.68	39.55	46.00	-6.45	
560.59	S	Peak	37.61	-1.40	36.21	46.00	-9.79	

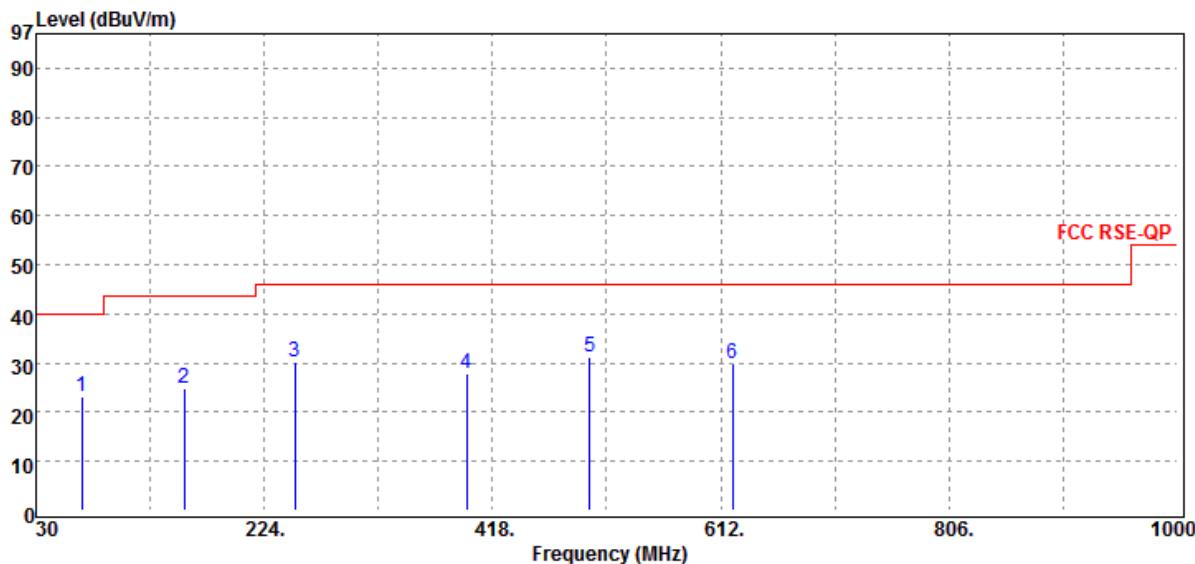
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Operation Band :802.11g
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E2 Plane

Test Date :2017-10-11
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 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	Margin dB
			PK/QP/AV	Reading Level dB μ V				
68.80	S	Peak	33.13	-9.98	23.15	40.00	-16.85	
156.10	S	Peak	32.34	-7.61	24.73	43.50	-18.77	
250.19	S	Peak	38.27	-7.93	30.34	46.00	-15.66	
395.69	S	Peak	32.00	-4.16	27.84	46.00	-18.16	
500.45	S	Peak	33.84	-2.68	31.16	46.00	-14.84	
621.70	S	Peak	29.77	-0.02	29.75	46.00	-16.25	

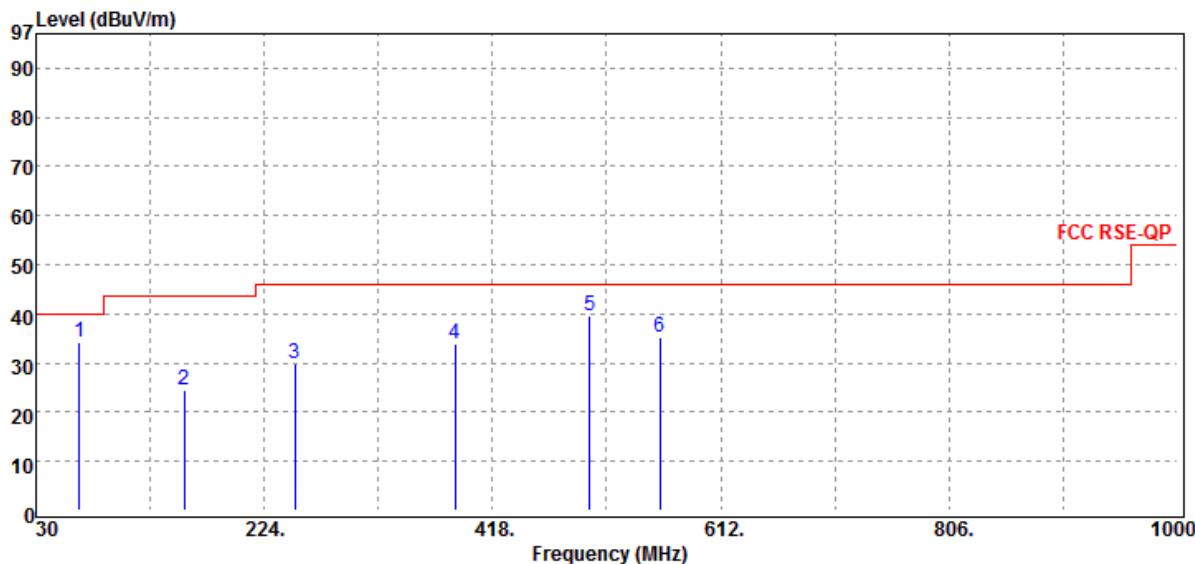
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Operation Band :802.11g
 Fundamental Frequency :2462 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane

Test Date :2017-10-11
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 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				
66.86	S	Peak	43.95	-9.58	34.37	40.00	-5.63	
156.10	S	Peak	32.18	-7.61	24.57	43.50	-18.93	
250.19	S	Peak	37.94	-7.93	30.01	46.00	-15.99	
385.99	S	Peak	38.32	-4.31	34.01	46.00	-11.99	
500.45	S	Peak	42.26	-2.68	39.58	46.00	-6.42	
560.59	S	Peak	36.64	-1.40	35.24	46.00	-10.76	

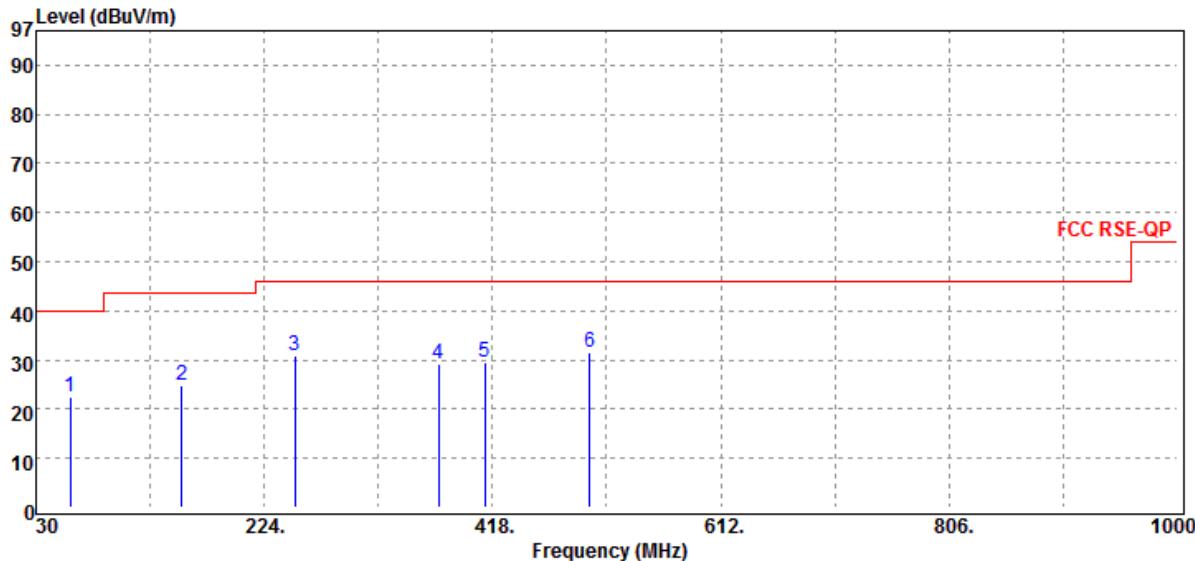
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Operation Band :802.11g
 Fundamental Frequency :2462 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane

Test Date :2017-10-11
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 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	Margin dB
			PK/QP/AV	Reading Level dB μ V				
59.10	S	Peak	30.64	-8.03	22.61	40.00	-17.39	
154.16	S	Peak	32.56	-7.69	24.87	43.50	-18.63	
250.19	S	Peak	38.79	-7.93	30.86	46.00	-15.14	
372.41	S	Peak	33.70	-4.54	29.16	46.00	-16.84	
411.21	S	Peak	33.25	-3.63	29.62	46.00	-16.38	
500.45	S	Peak	34.13	-2.68	31.45	46.00	-14.55	

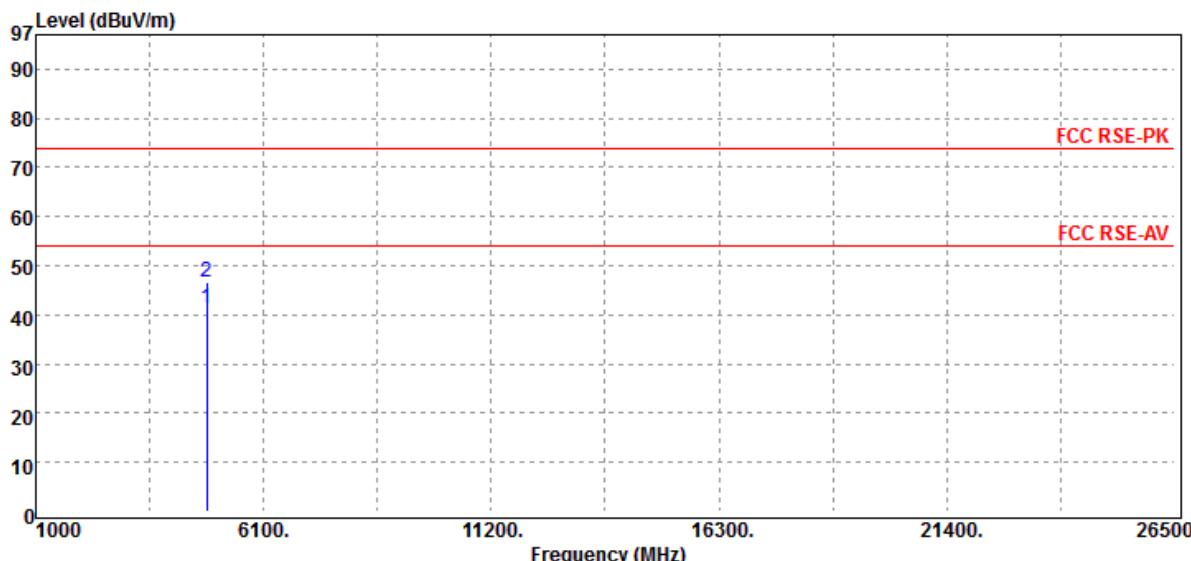
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Above 1GHz Data:**Radiated Spurious Emission Measurement Result (802.11 b)**

Operation Band :802.11b Test Date :2017-10-06
 Fundamental Frequency :2412 MHz Temp./Humi. :21 deg_C / 62 RH
 Operation Mode :Tx CH LOW Engineer :Kane
 EUT Pol. :E2 Plane 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	36.45	4.93	41.38	54.00	-12.62	
4824.00	H	Peak	41.56	4.93	46.49	74.00	-27.51	

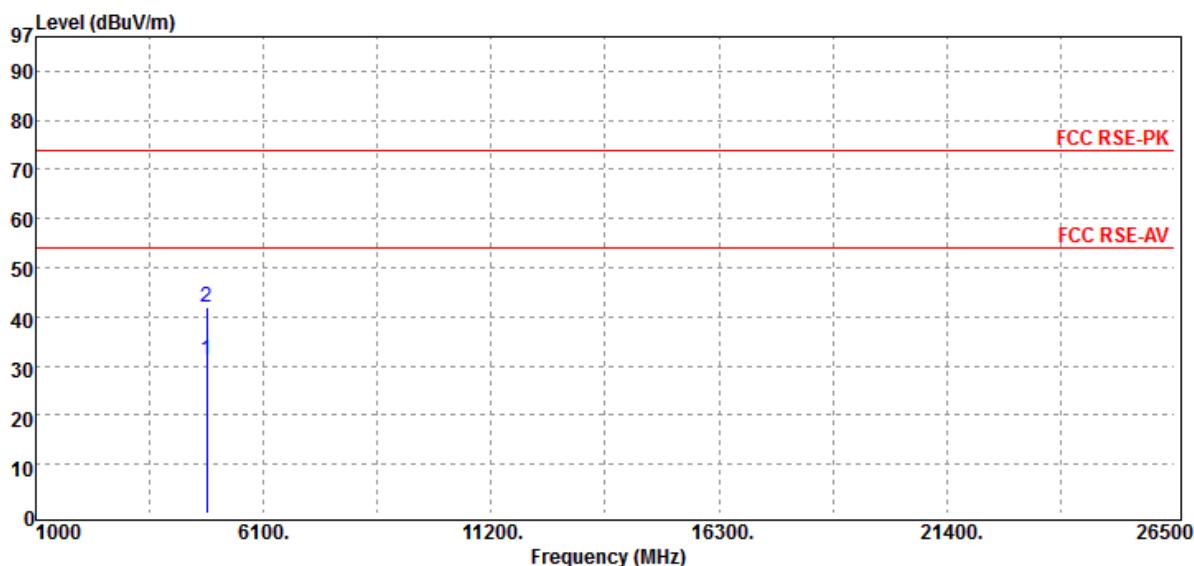
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Operation Band :802.11b
 Fundamental Frequency :2412 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane

Test Date :2017-10-06
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit	Safe
						@3m dB μ V/m	Margin dB
4824.00	H	Average	26.26	4.93	31.19	54.00	-22.81
4824.00	H	Peak	37.05	4.93	41.98	74.00	-32.02

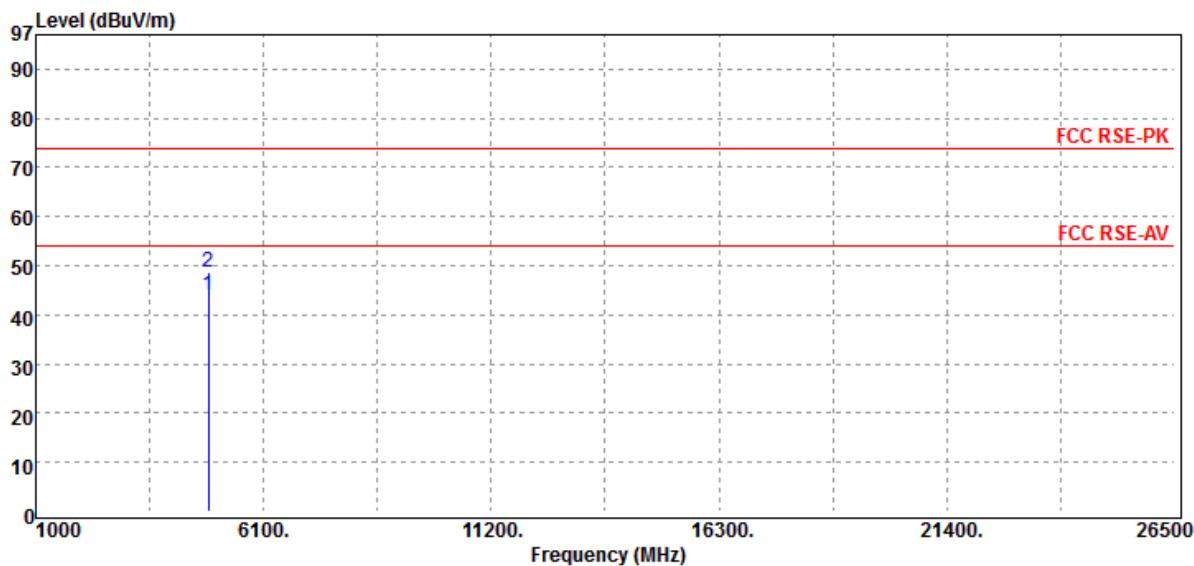
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Operation Band :802.11b
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E2 Plane

Test Date :2017-10-06
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
						dB μ V/m	dB
4874.00	H	Average	38.76	5.13	43.89	54.00	-10.11
4874.00	H	Peak	43.69	5.13	48.82	74.00	-25.18

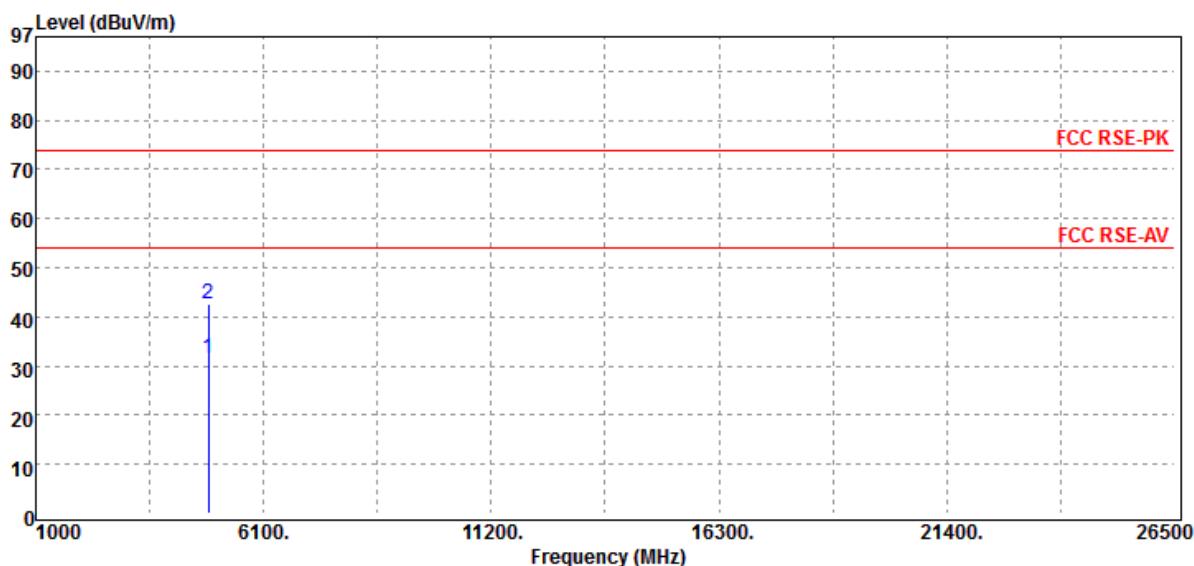
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Operation Band :802.11b
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E2 Plane

Test Date :2017-10-06
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
						dB μ V/m	dB
4874.00	H	Average	26.55	5.13	31.68	54.00	-22.32
4874.00	H	Peak	37.39	5.13	42.52	74.00	-31.48

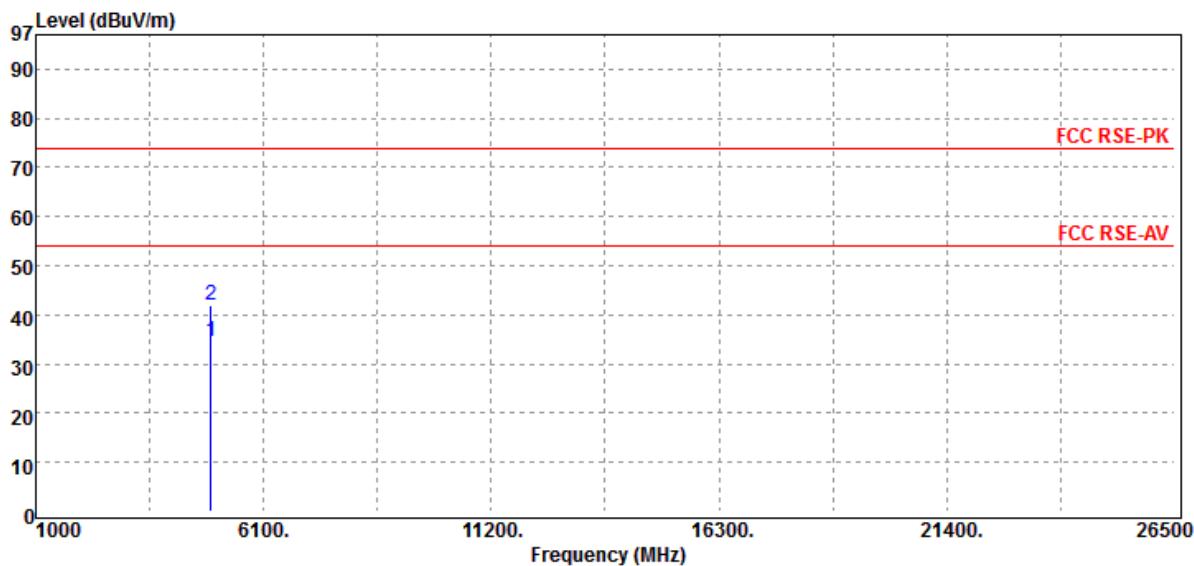
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Operation Band :802.11b
 Fundamental Frequency :2462 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane

Test Date :2017-10-06
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum		Factor	Actual FS dB	Limit @3m dBuV/m	Safe Margin dB
			Reading	Level dB μ V				
4924.00	H	Average	29.43	5.25	34.68	54.00	-19.32	
4924.00	H	Peak	36.85	5.25	42.10	74.00	-31.90	

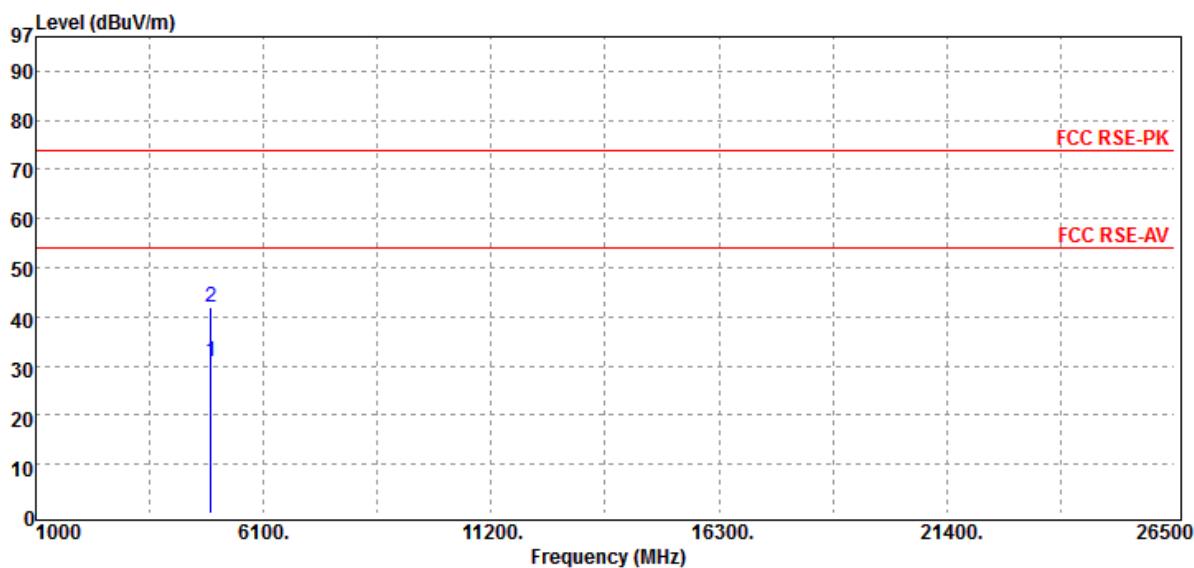
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Operation Band :802.11b
 Fundamental Frequency :2462 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane

Test Date :2017-10-06
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 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 dB μ V				
4924.00	H	Average	25.64	5.25	30.89	54.00	-23.11	
4924.00	H	Peak	36.67	5.25	41.92	74.00	-32.08	

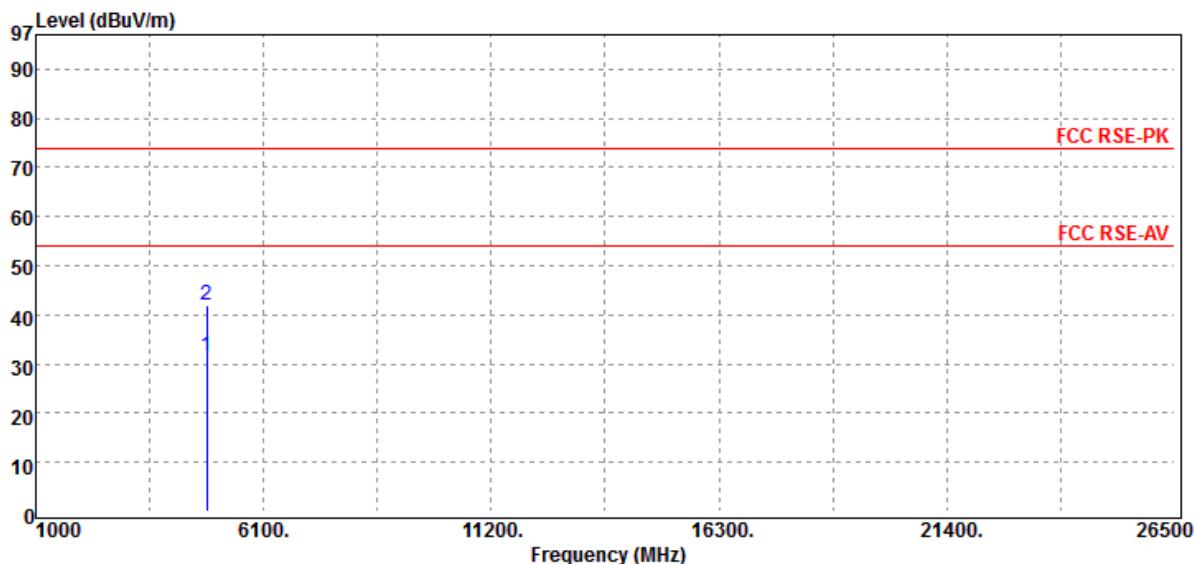
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Radiated Spurious Emission Measurement Result (802.11 g)

Operation Band :802.11g Test Date :2017-10-06
 Fundamental Frequency :2412 MHz Temp./Humi. :21 deg_C / 62 RH
 Operation Mode :Tx CH LOW Engineer :Kane
 EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
						dB μ V/m	dB
4824.00	H	Average	26.67	4.93	31.60	54.00	-22.40
4824.00	H	Peak	37.13	4.93	42.06	74.00	-31.94

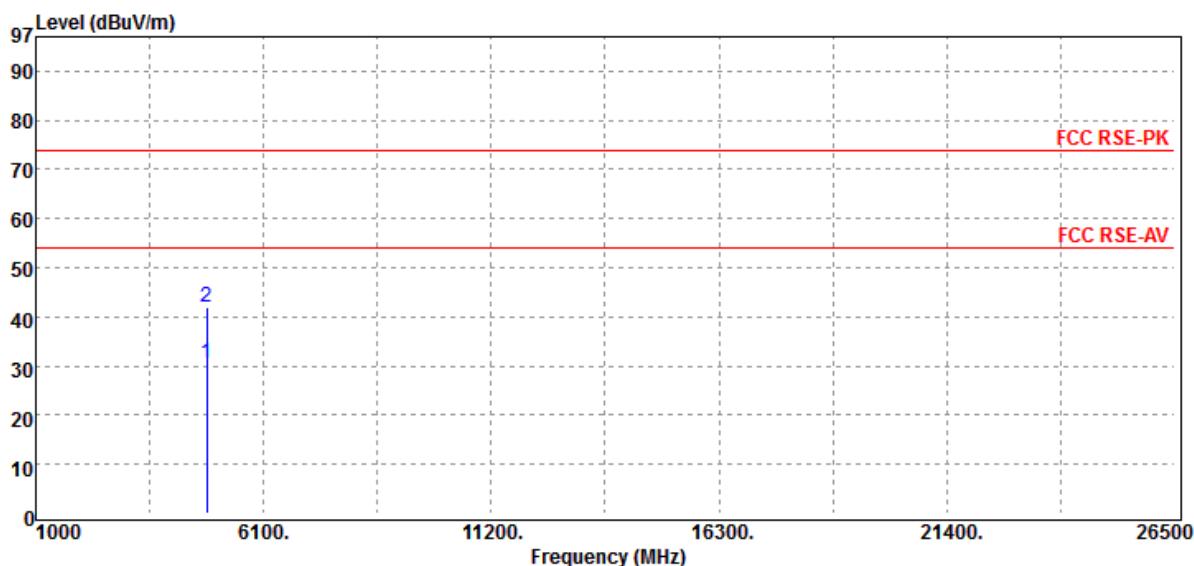
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Operation Band :802.11g
 Fundamental Frequency :2412 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane

Test Date :2017-10-06
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
						dB μ V/m	dB
4824.00	H	Average	25.76	4.93	30.69	54.00	-23.31
4824.00	H	Peak	36.90	4.93	41.83	74.00	-32.17

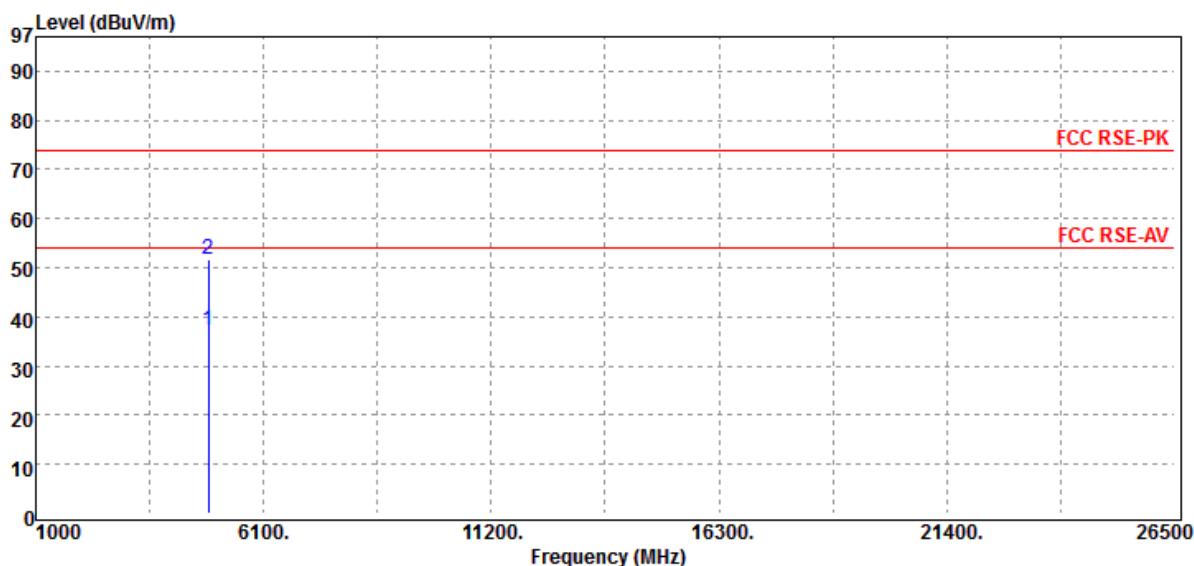
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Operation Band :802.11g
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E2 Plane

Test Date :2017-10-06
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Safe Margin
			PK/QP/AV	Reading Level dB μ V				
4874.00	H	Average		32.16	5.13	37.29	54.00	-16.71
4874.00	H	Peak		46.70	5.13	51.83	74.00	-22.17

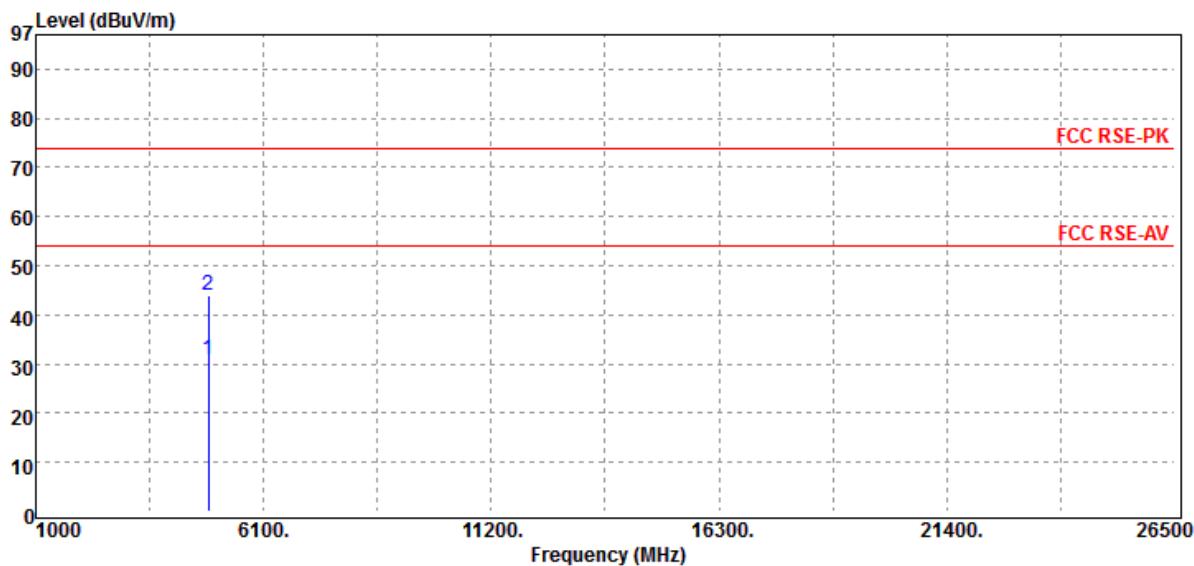
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Operation Band :802.11g
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E2 Plane

Test Date :2017-10-06
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 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 dB μ V				
4874.00	H	Average		25.65	5.13	30.78	54.00	-23.22
4874.00	H	Peak		38.81	5.13	43.94	74.00	-30.06

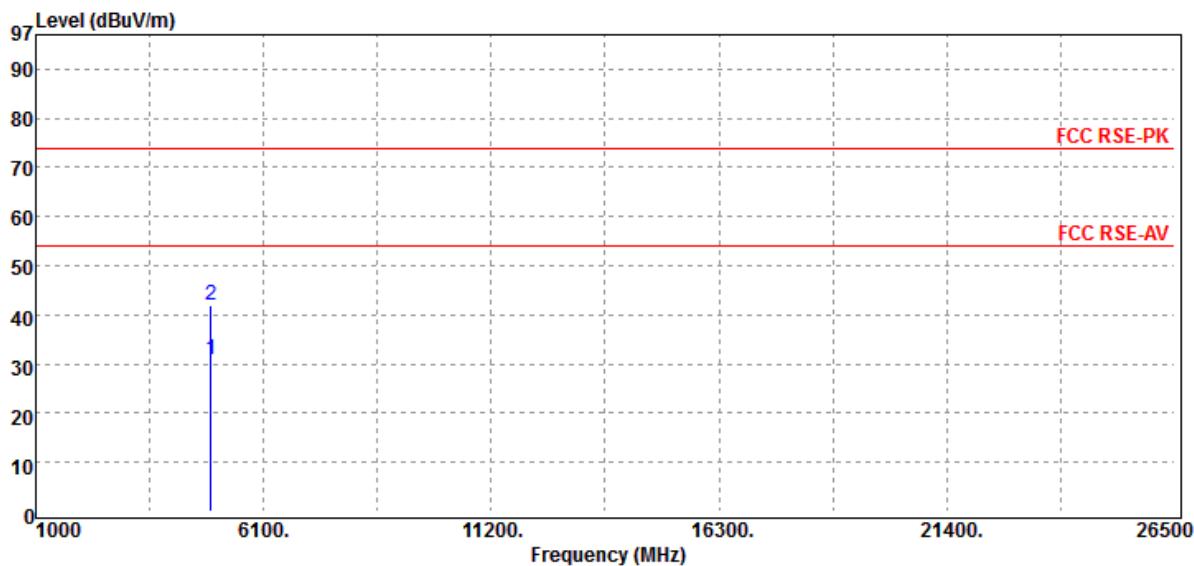
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Operation Band :802.11g
 Fundamental Frequency :2462 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane

Test Date :2017-10-06
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum		Factor	Actual FS dB	Limit @3m dBuV/m	Safe Margin dB
			Reading	Level dB μ V				
4924.00	H	Average	25.52	5.25	30.77	54.00	-23.23	
4924.00	H	Peak	36.87	5.25	42.12	74.00	-31.88	

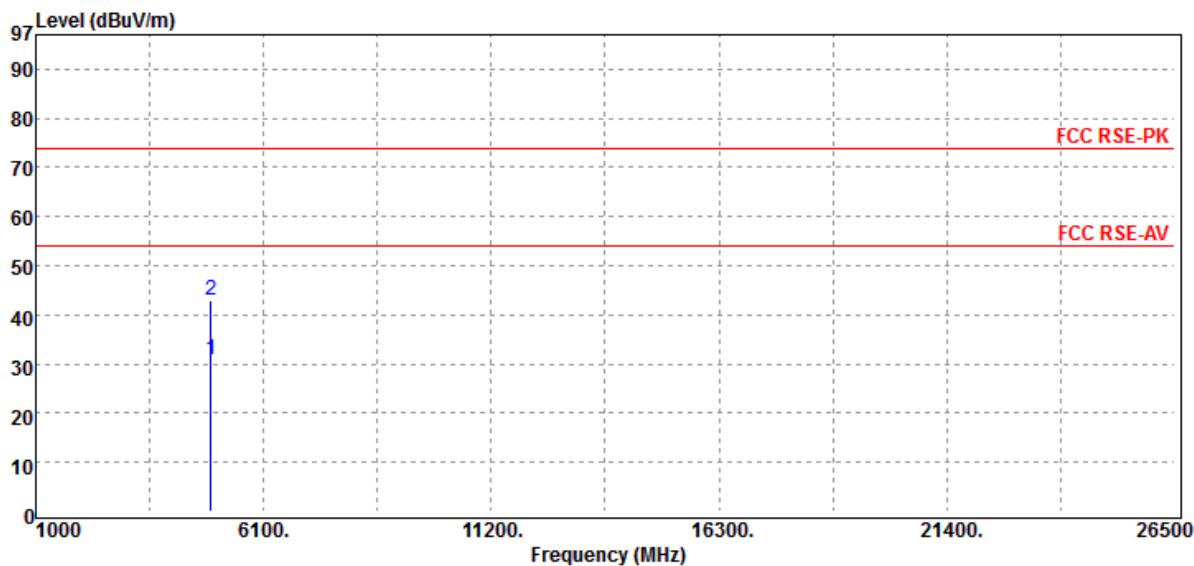
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Operation Band :802.11g
 Fundamental Frequency :2462 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane

Test Date :2017-10-06
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
						dB μ V/m	dB
4924.00	H	Average	25.48	5.25	30.73	54.00	-23.27
4924.00	H	Peak	37.61	5.25	42.86	74.00	-31.14

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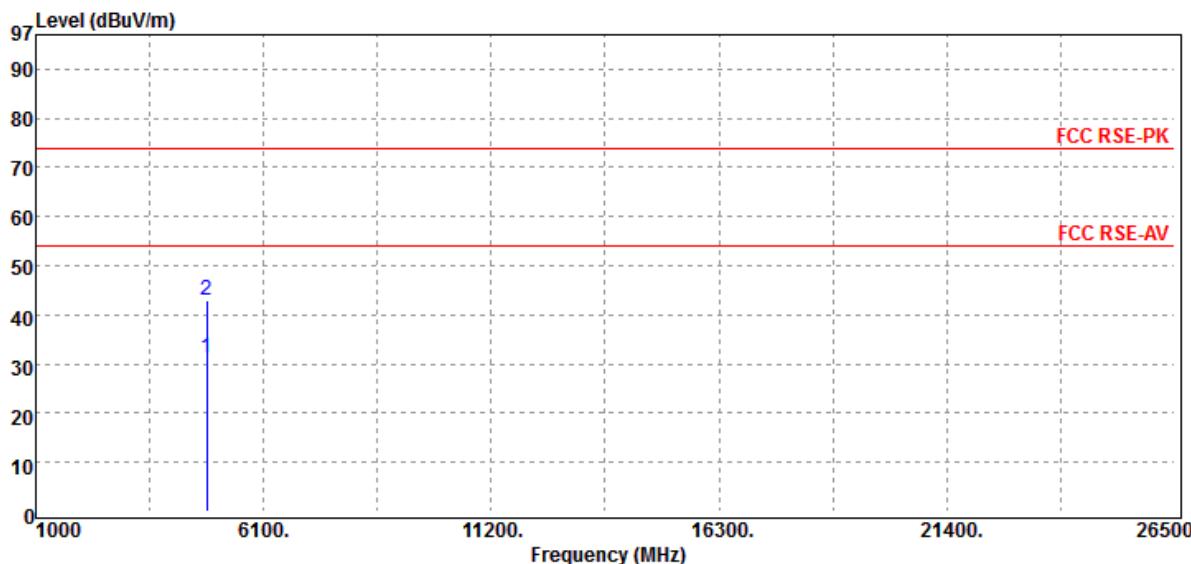
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CDD Mode:

Radiated Spurious Emission Measurement Result (802.11_HT20)

Operation Band :802.11n20 Test Date :2017-10-06
 Fundamental Frequency :2412 MHz Temp./Humi. :21 deg_C / 62 RH
 Operation Mode :Tx CH LOW Engineer :Kane
 EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum		Factor	Actual FS dB ^μ V/m	Limit @3m dB ^μ V/m	Safe Margin dB
			Reading	Level dB ^μ V				
4824.00	H	Average	26.35	4.93	31.28	54.00	-22.72	
4824.00	H	Peak	38.03	4.93	42.96	74.00	-31.04	

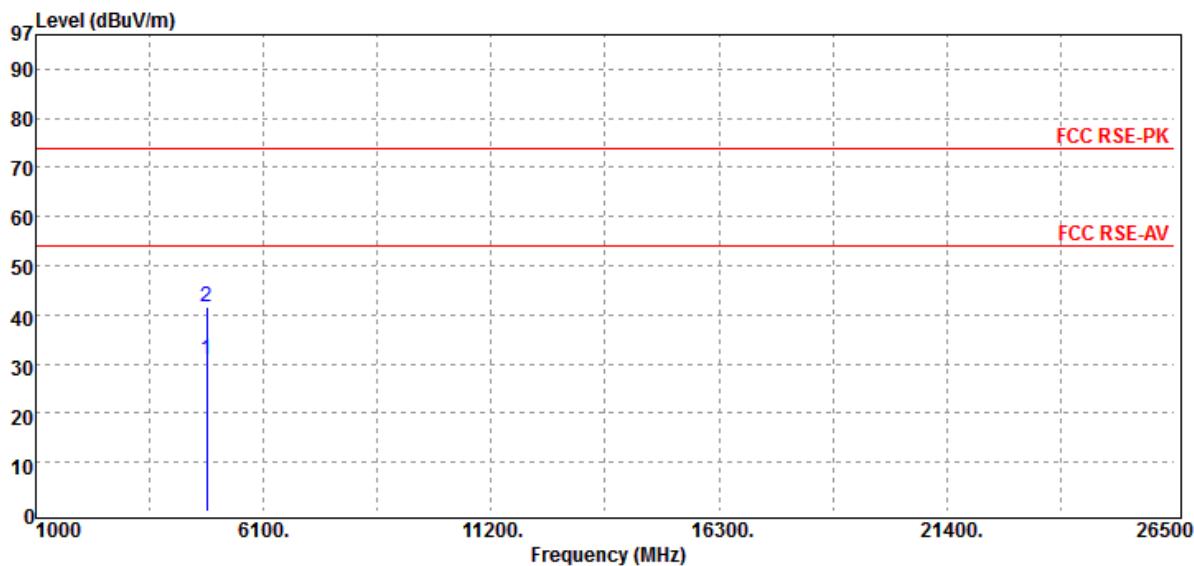
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Operation Band :802.11n20
 Fundamental Frequency :2412 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane

Test Date :2017-10-06
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level dB μ V	Factor	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
						dB μ V/m	dB
4824.00	H	Average	25.86	4.93	30.79	54.00	-23.21
4824.00	H	Peak	36.79	4.93	41.72	74.00	-32.28

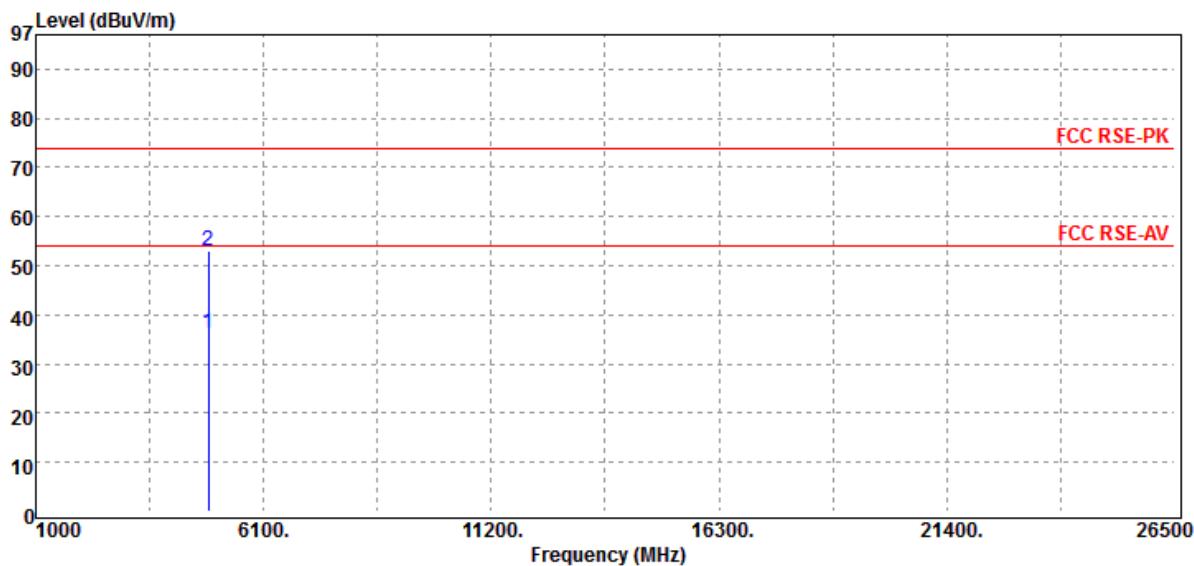
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Operation Band :802.11n20
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E2 Plane

Test Date :2017-10-06
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Safe Margin
			PK/QP/AV	Reading Level dB μ V				
4874.00	H	Average	31.13	31.13	5.13	36.26	54.00	-17.74
4874.00	H	Peak	47.80	47.80	5.13	52.93	74.00	-21.07

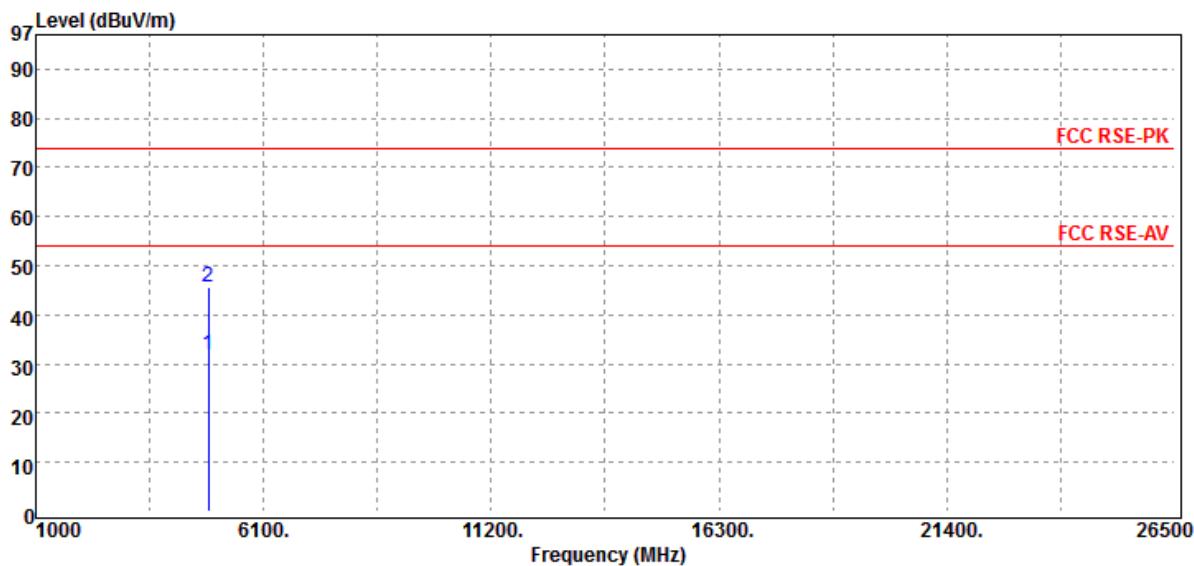
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Operation Band :802.11n20
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E2 Plane

Test Date :2017-10-06
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 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 dB μ V				
4874.00	H	Average	26.87	26.87	5.13	32.00	54.00	-22.00
4874.00	H	Peak	40.52	40.52	5.13	45.65	74.00	-28.35

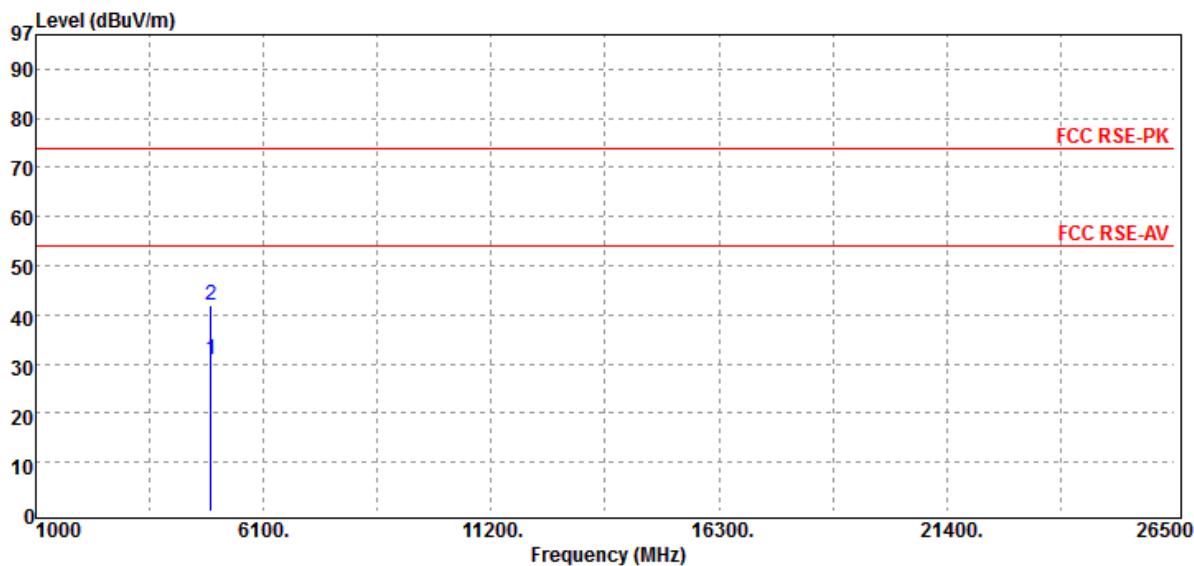
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Operation Band :802.11n20
 Fundamental Frequency :2462 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane

Test Date :2017-10-06
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum	Factor	Actual FS	Limit @3m	Safe Margin
			Reading				
		PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4924.00	H	Average	25.58	5.25	30.83	54.00	-23.17
4924.00	H	Peak	36.79	5.25	42.04	74.00	-31.96

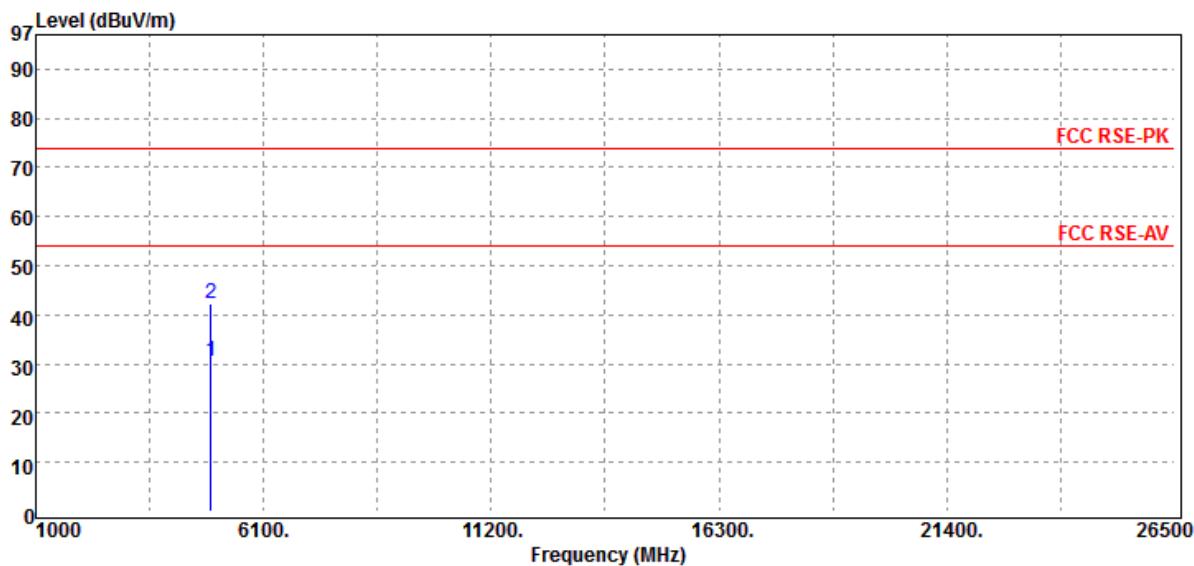
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Operation Band :802.11n20
 Fundamental Frequency :2462 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane

Test Date :2017-10-06
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 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 dB μ V				
4924.00	H	Average		25.44	5.25	30.69	54.00	-23.31
4924.00	H	Peak		36.97	5.25	42.22	74.00	-31.78

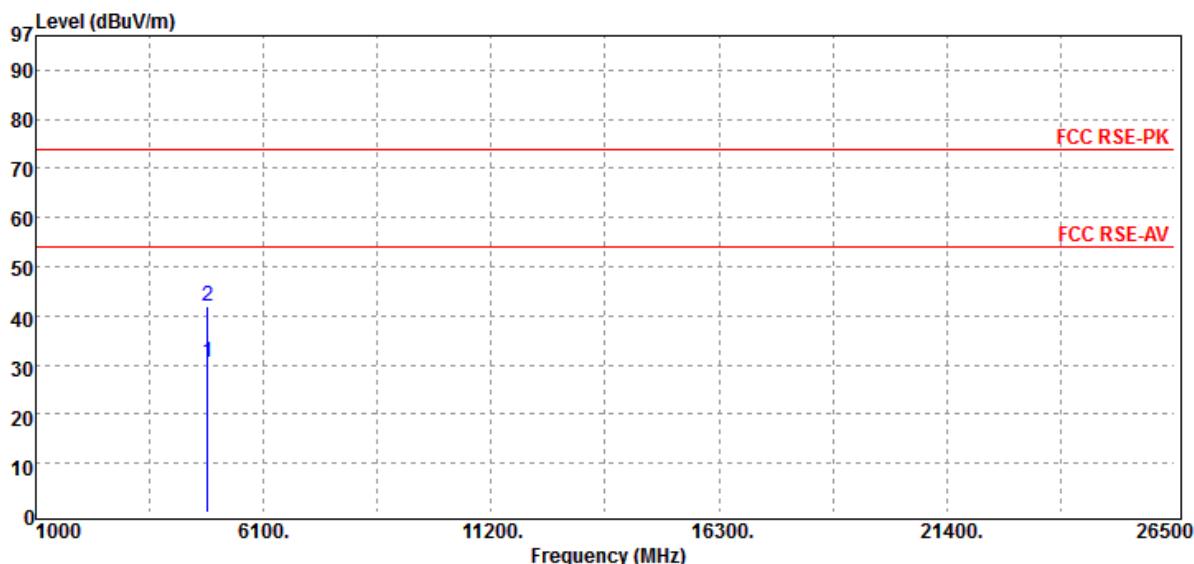
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Radiated Spurious Emission Measurement Result (802.11-HT40)

Operation Band	:802.11n40	Test Date	:2017-10-06
Fundamental Frequency	:2422 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum	Factor	Actual FS	Limit	Safe
			Reading			@3m	Margin
		PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4844.00	H	Average	25.63	4.97	30.60	54.00	-23.40
4844.00	H	Peak	36.90	4.97	41.87	74.00	-32.13

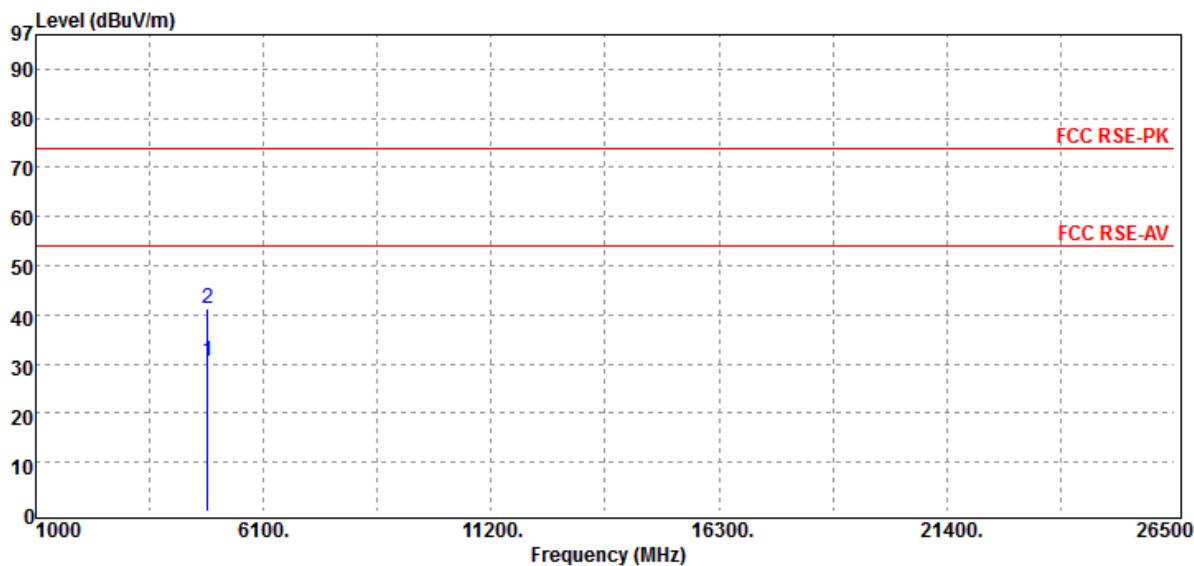
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Operation Band :802.11n40
 Fundamental Frequency :2422 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane

Test Date :2017-10-06
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 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
4844.00	H	Average	25.61	4.97	30.58	54.00	-23.42
4844.00	H	Peak	36.38	4.97	41.35	74.00	-32.65

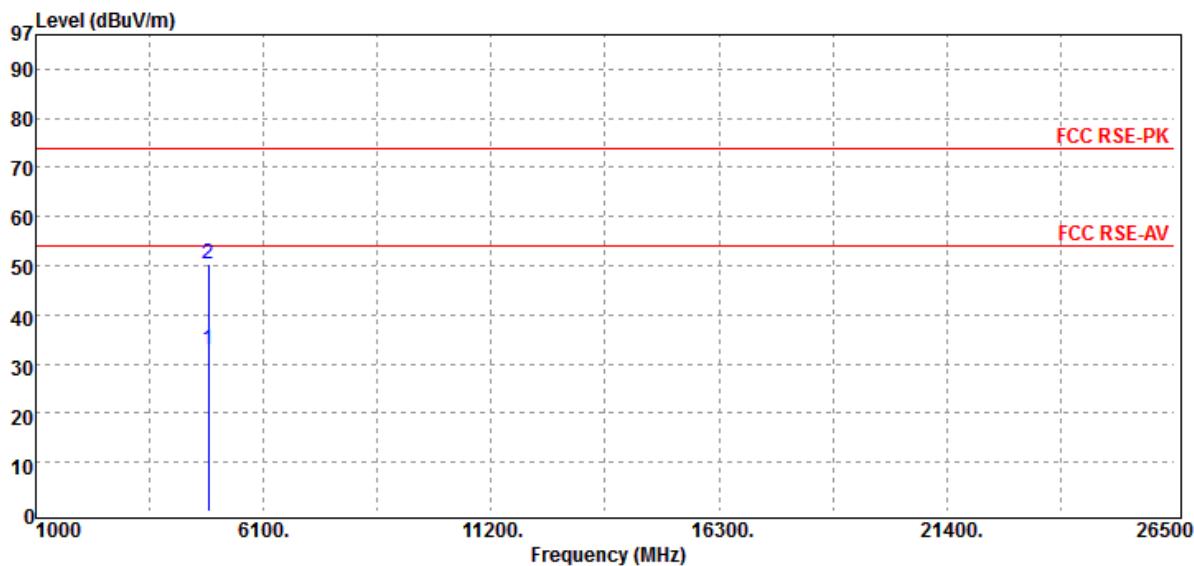
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Operation Band :802.11n40
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E2 Plane

Test Date :2017-10-06
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
						Limit @3m dB μ V/m	Safe Margin dB
4874.00	H	Average	27.70	5.13	32.83	54.00	-21.17
4874.00	H	Peak	45.30	5.13	50.43	74.00	-23.57

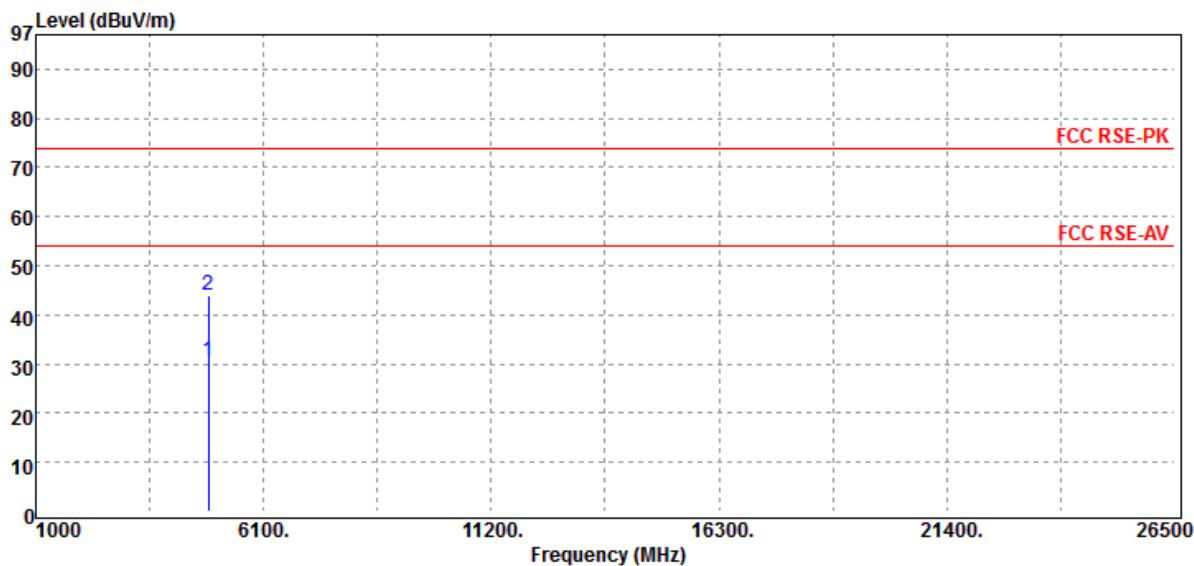
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Operation Band :802.11n40
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E2 Plane

Test Date :2017-10-06
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 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 dB μ V				
4874.00	H	Average		25.25	5.13	30.38	54.00	-23.62
4874.00	H	Peak		38.72	5.13	43.85	74.00	-30.15

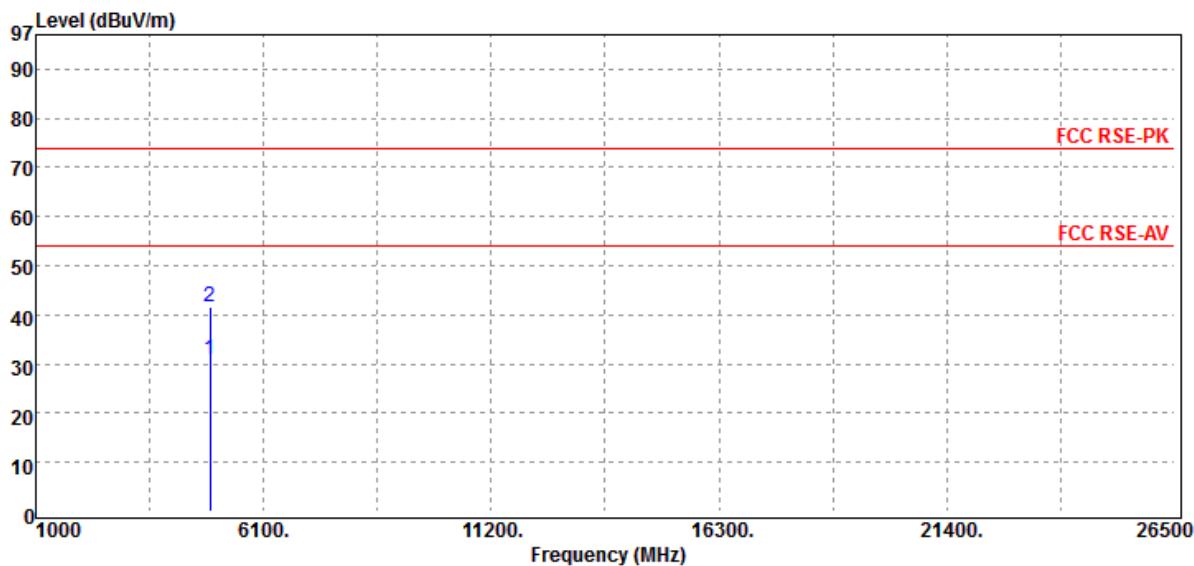
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Operation Band :802.11n40
 Fundamental Frequency :2452 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane

Test Date :2017-10-06
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Safe Margin
			PK/QP/AV	Reading Level dB μ V				
4904.00	H	Average		25.65	5.24	30.89	54.00	-23.11
4904.00	H	Peak		36.38	5.24	41.62	74.00	-32.38

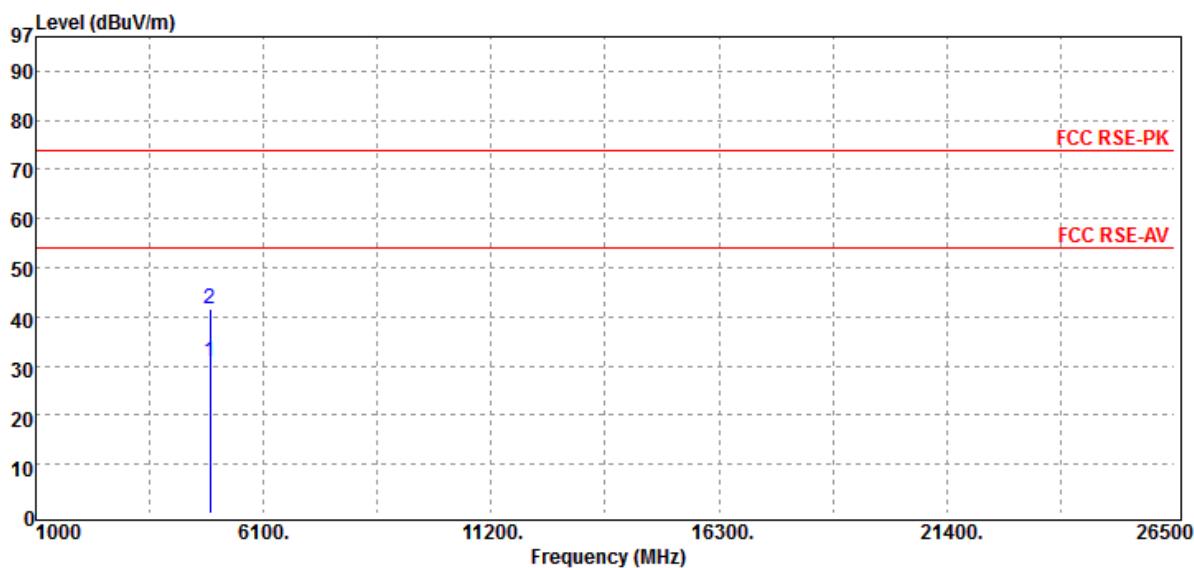
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Operation Band :802.11n40
 Fundamental Frequency :2452 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane

Test Date :2017-10-06
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level dB μ V	Factor	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
						dB μ V/m	dB
4904.00	H	Average	25.62	5.24	30.86	54.00	-23.14
4904.00	H	Peak	36.44	5.24	41.68	74.00	-32.32

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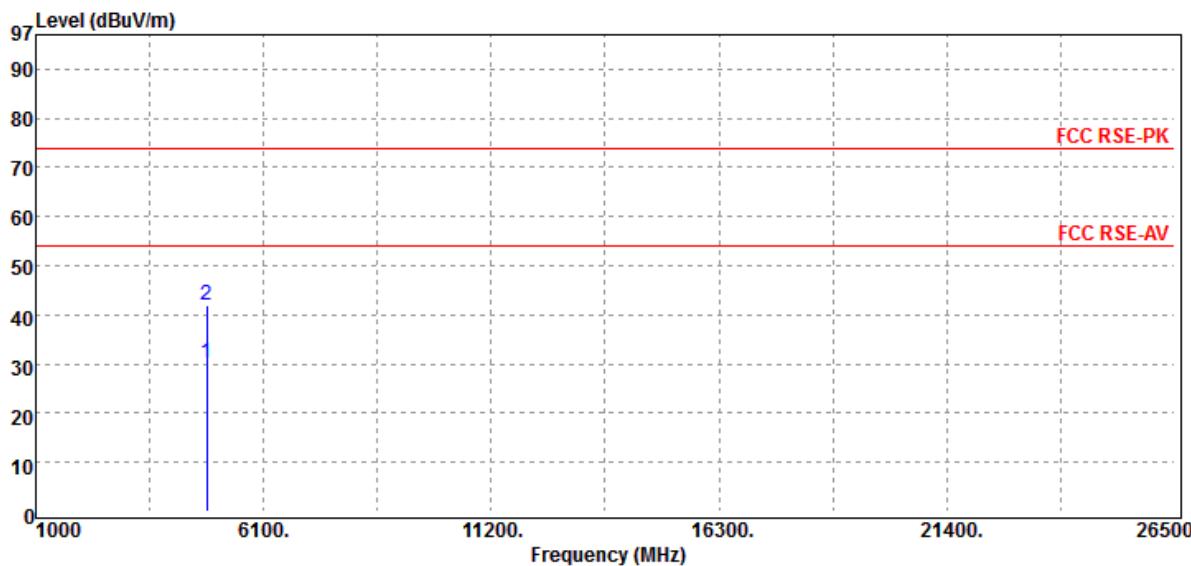
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Beam Forming Mode:

Radiated Spurious Emission Measurement Result (802.11 HT20)

Operation Band	:802.11n20	Test Date	:2017-10-11
Fundamental Frequency	:2412 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
			Reading	Level				
4824.00	H	Average	25.13		4.93	30.06	54.00	-23.94
4824.00	H	Peak	37.01		4.93	41.94	74.00	-32.06

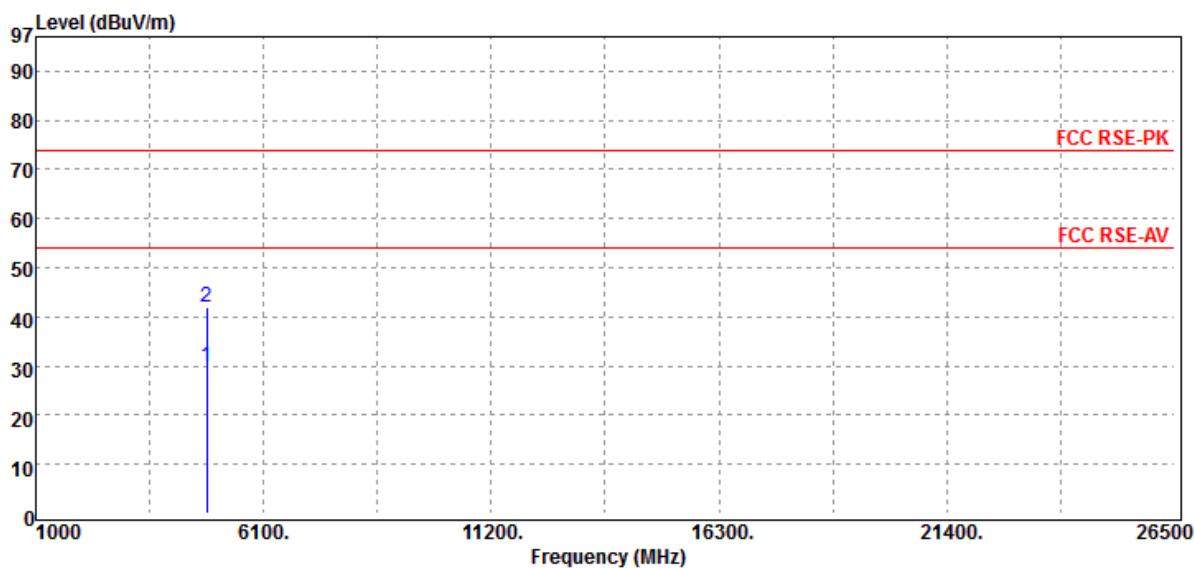
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Operation Band :802.11n20
 Fundamental Frequency :2412 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane

Test Date :2017-10-11
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit	Safe
						@3m dB μ V/m	Margin dB
4824.00	H	Average	24.95	4.93	29.88	54.00	-24.12
4824.00	H	Peak	37.07	4.93	42.00	74.00	-32.00

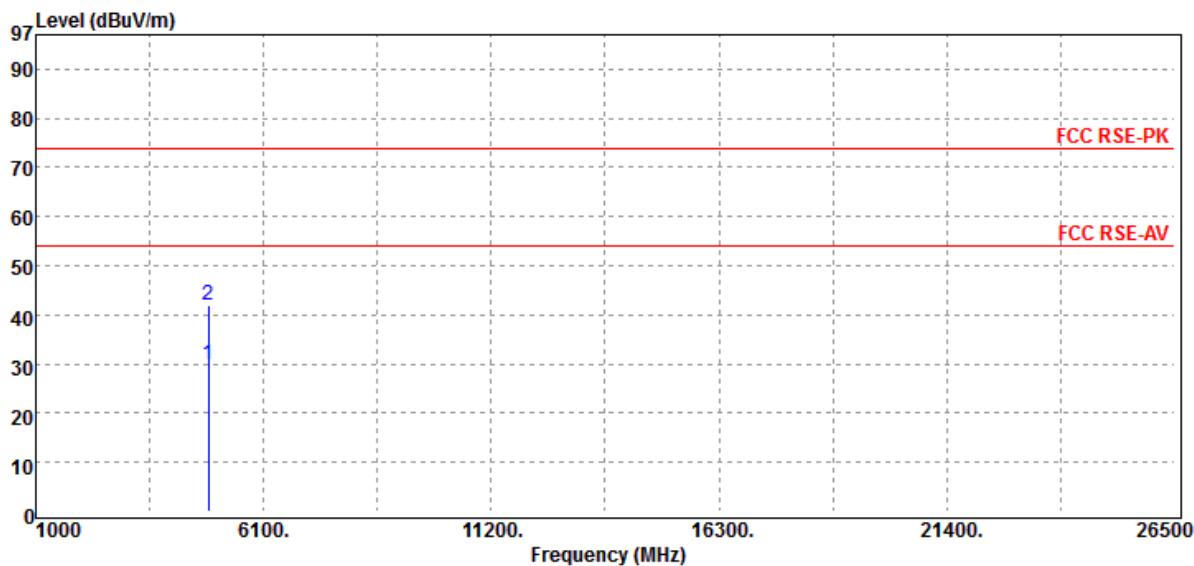
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Operation Band :802.11n20
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E2 Plane

Test Date :2017-10-11
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Safe Margin
			PK/QP/AV	Reading Level dB μ V				
4874.00	H	Average	24.81	24.81	5.13	29.94	54.00	-24.06
4874.00	H	Peak	36.89	36.89	5.13	42.02	74.00	-31.98

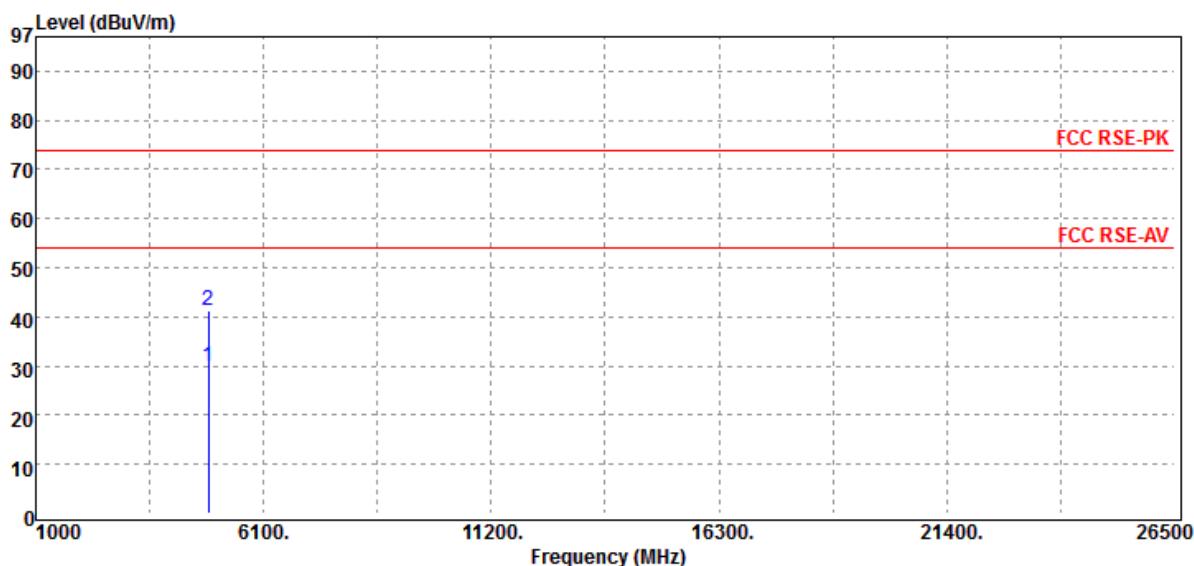
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Operation Band :802.11n20
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E2 Plane

Test Date :2017-10-11
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 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 dB μ V				
4874.00	H	Average		24.75	5.13	29.88	54.00	-24.12
4874.00	H	Peak		36.20	5.13	41.33	74.00	-32.67

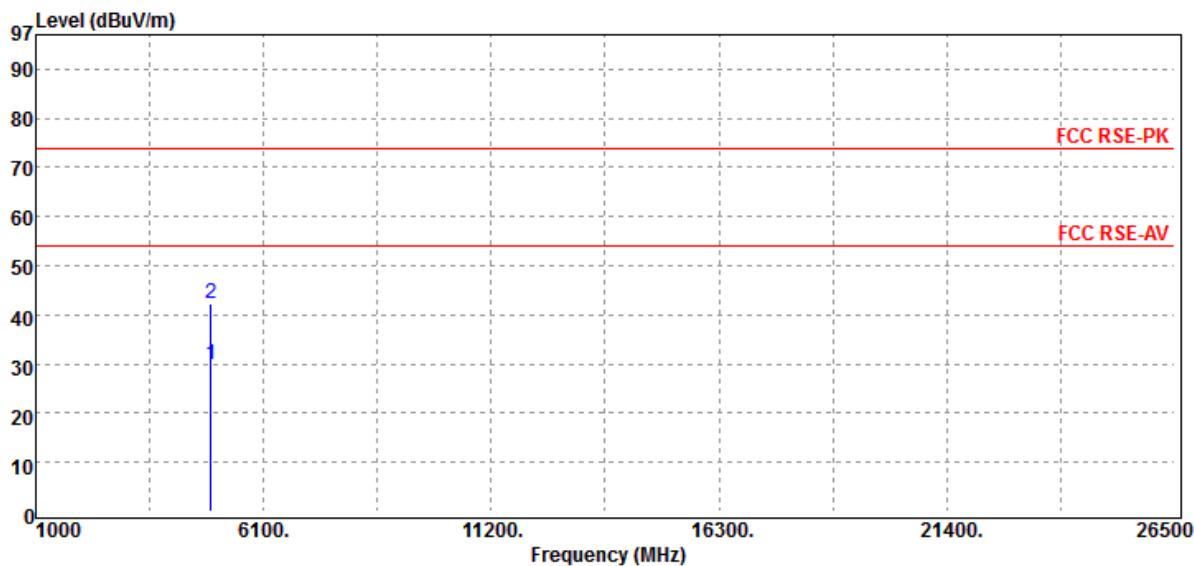
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Operation Band :802.11n20
 Fundamental Frequency :2462 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane

Test Date :2017-10-11
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Safe Margin
			PK/QP/AV	Reading Level dB μ V				
4924.00	H	Average		24.72	5.25	29.97	54.00	-24.03
4924.00	H	Peak		37.03	5.25	42.28	74.00	-31.72

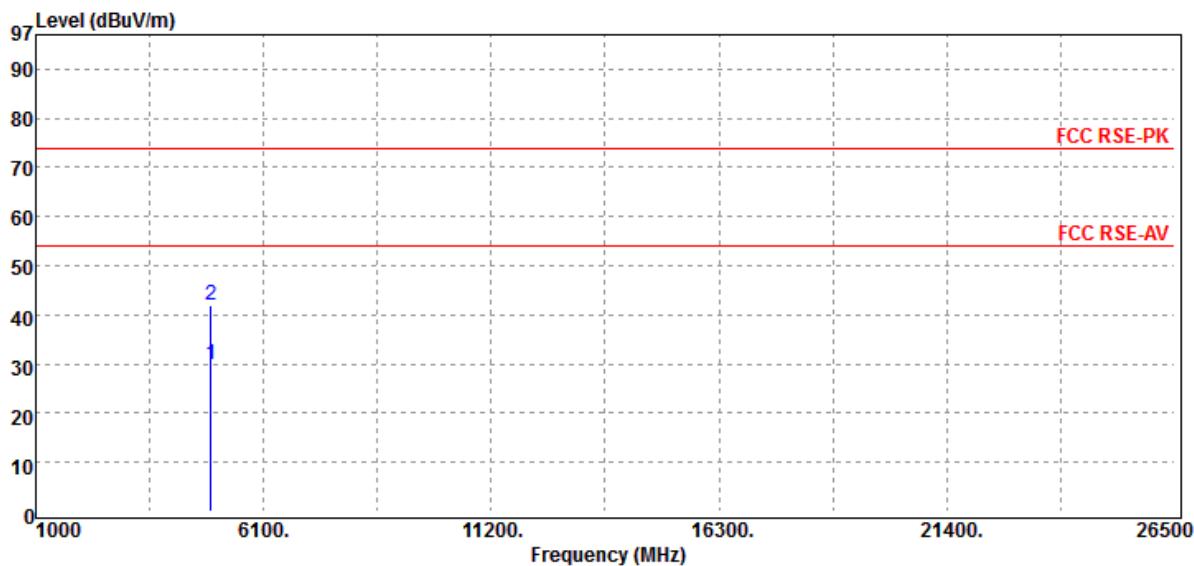
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Operation Band :802.11n20
 Fundamental Frequency :2462 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane

Test Date :2017-10-11
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 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 dB μ V				
4924.00	H	Average	24.62	24.62	5.25	29.87	54.00	-24.13
4924.00	H	Peak	36.62	36.62	5.25	41.87	74.00	-32.13

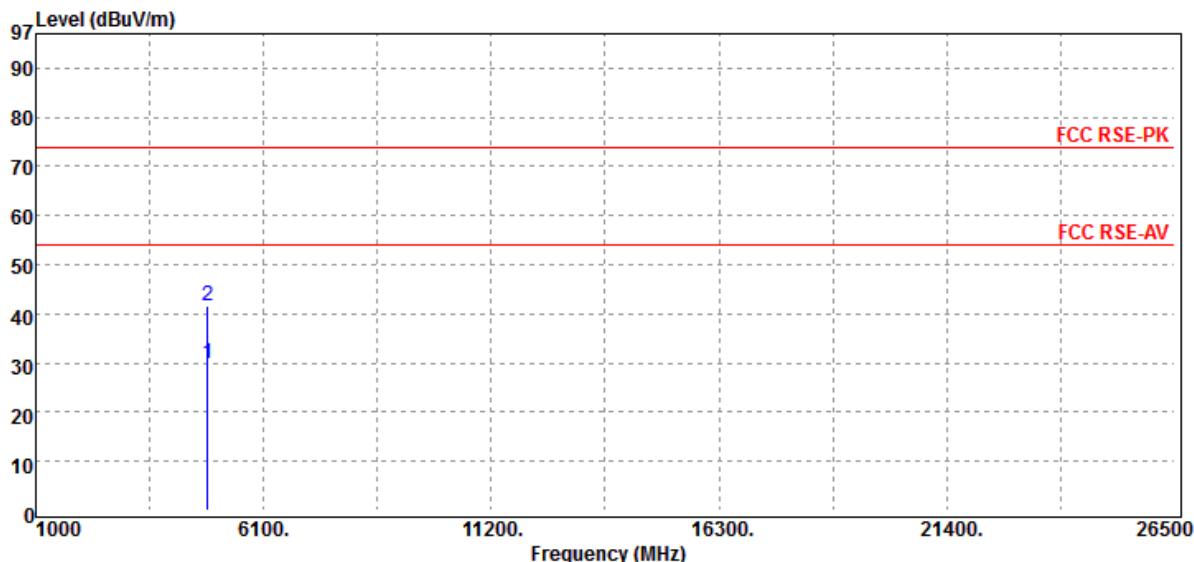
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Radiated Spurious Emission Measurement Result (802.11-HT40)

Operation Band	:802.11n40	Test Date	:2017-10-11
Fundamental Frequency	:2422 MHz	Temp./Humi.	:21 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Kane
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
			PK/QP/AV	dBμV				
4844.00	H	Average	24.82	4.97	29.79	54.00	-24.21	
4844.00	H	Peak	36.81	4.97	41.78	74.00	-32.22	

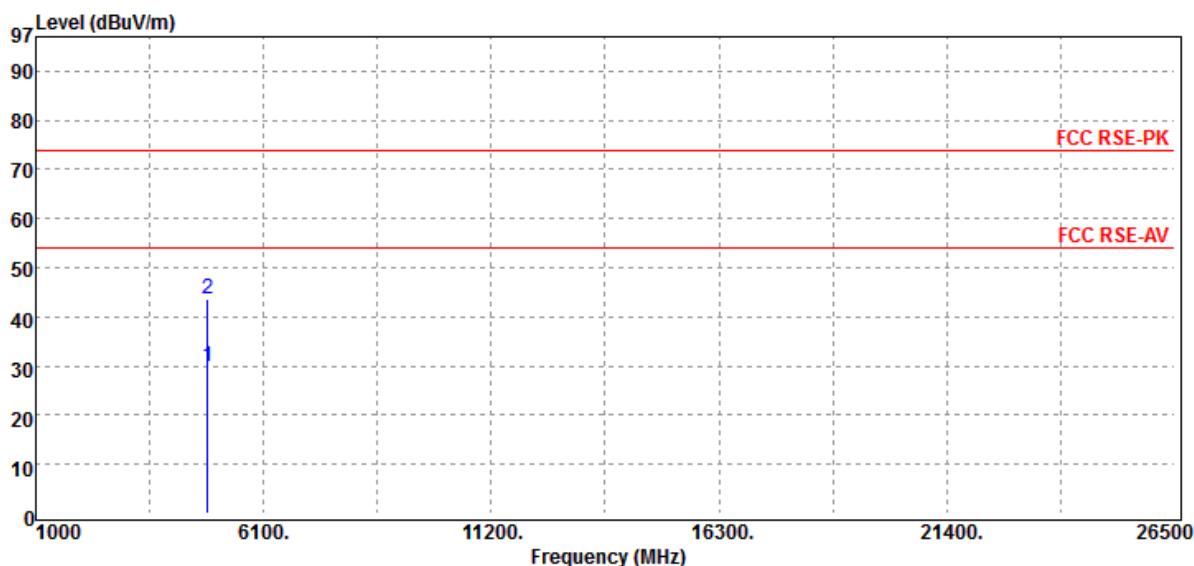
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Operation Band :802.11n40
 Fundamental Frequency :2422 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane

Test Date :2017-10-11
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit	Safe
						@3m dB μ V/m	Margin dB
4844.00	H	Average	24.75	4.97	29.72	54.00	-24.28
4844.00	H	Peak	38.73	4.97	43.70	74.00	-30.30

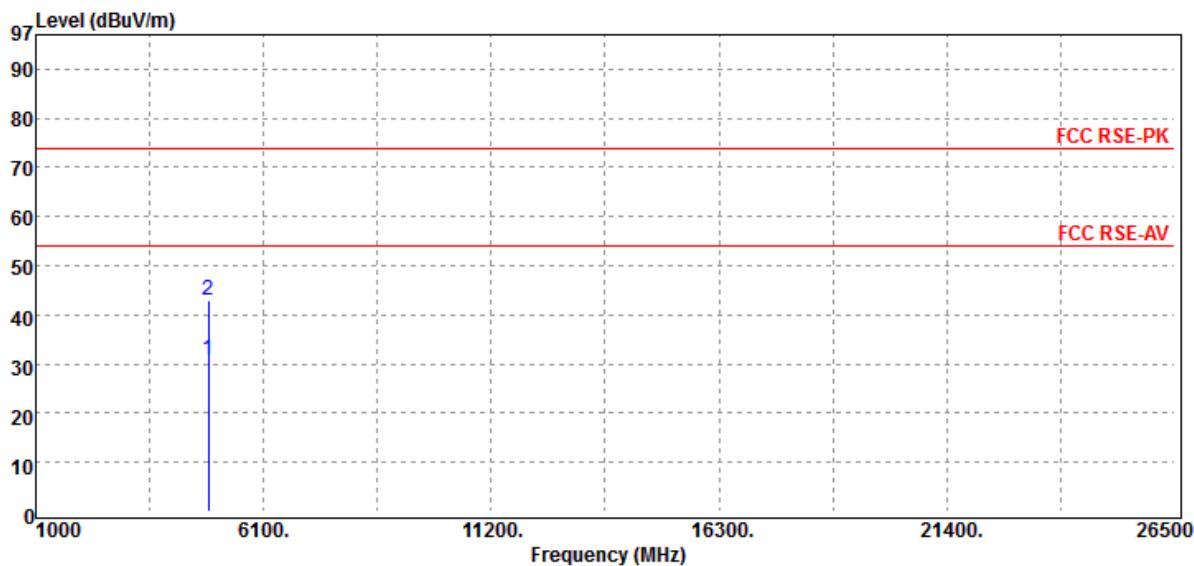
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Operation Band :802.11n40
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E2 Plane

Test Date :2017-10-11
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Safe Margin
			PK/QP/AV	Reading Level dB μ V				
4874.00	H	Average	25.65	25.65	5.13	30.78	54.00	-23.22
4874.00	H	Peak	37.67	37.67	5.13	42.80	74.00	-31.20

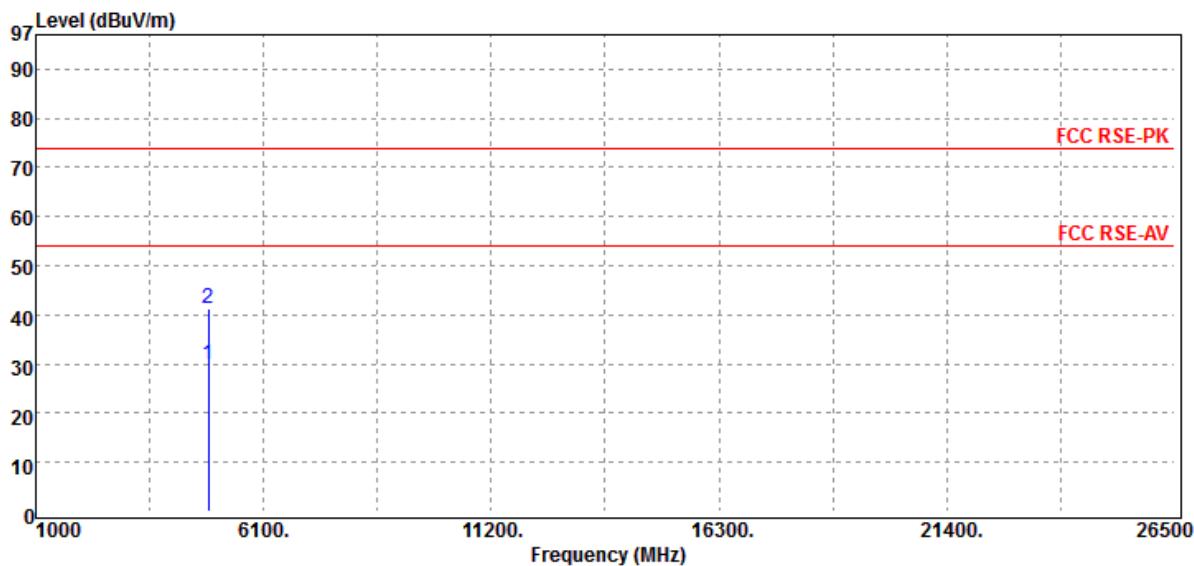
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Operation Band :802.11n40
 Fundamental Frequency :2437 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E2 Plane

Test Date :2017-10-11
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
						dB μ V/m	dB
4874.00	H	Average	24.83	5.13	29.96	54.00	-24.04
4874.00	H	Peak	36.22	5.13	41.35	74.00	-32.65

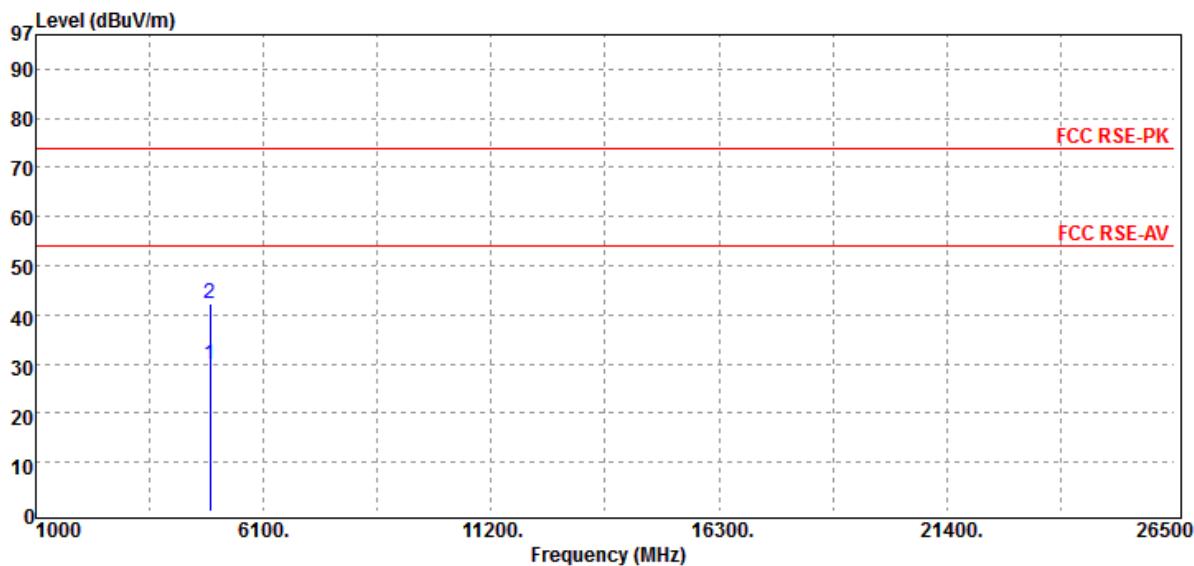
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Operation Band :802.11n40
 Fundamental Frequency :2452 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane

Test Date :2017-10-11
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor	Actual FS	Limit @3m	Safe Margin
			PK/QP/AV	Reading Level dB μ V				
4904.00	H	Average		24.78	5.24	30.02	54.00	-23.98
4904.00	H	Peak		36.98	5.24	42.22	74.00	-31.78

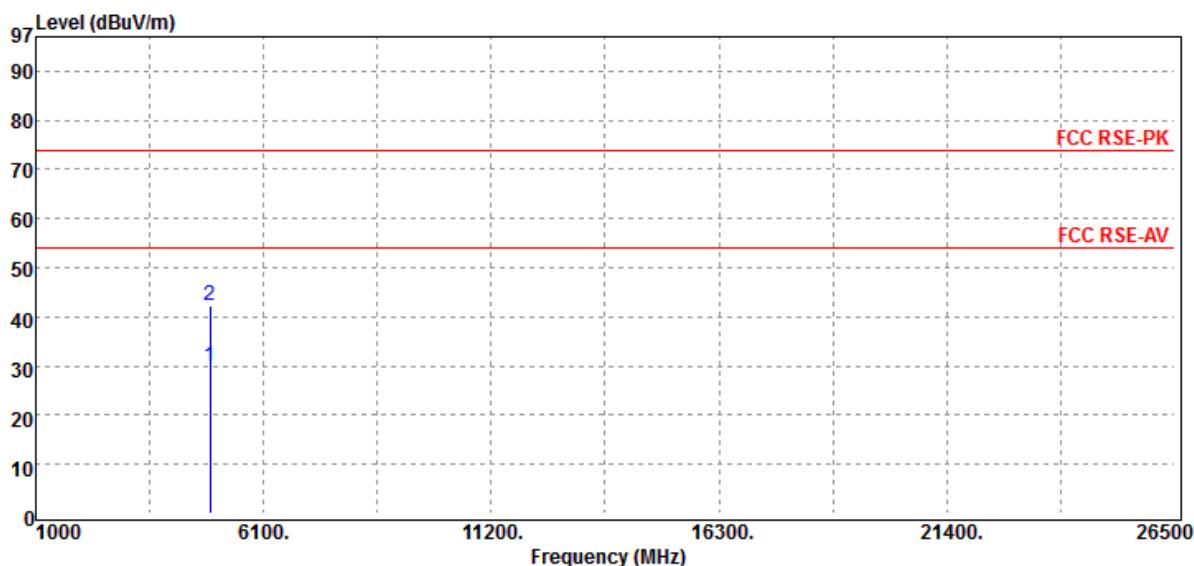
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Operation Band :802.11n40
 Fundamental Frequency :2452 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane

Test Date :2017-10-11
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Kane
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum		Factor	Actual FS dB	Limit @3m dBuV/m	Safe Margin dB
			Reading	Level dB μ V				
4904.00	H	Average	24.71	5.24	29.95	29.95	54.00	-24.05
4904.00	H	Peak	36.90	5.24	42.14	42.14	74.00	-31.86

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12 PEAK POWER SPECTRAL DENSITY

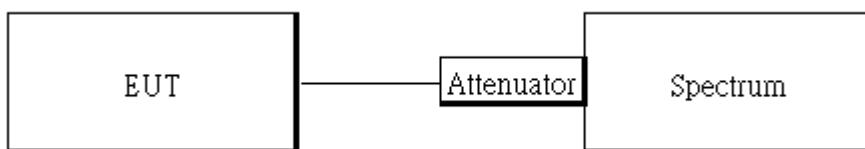
12.1 Standard Applicable

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

12.2 Measurement Equipment Used

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

12.3 Test Set-up



12.4 Measurement Procedure

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

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CDD Mode

Note:

Antenna Gain:	5.92 dBi
Aux1 Antenna Gain:	5.87 dBi
Aux2 Antenna Gain:	5.70 dBi
Aux3 Antenna Gain:	5.61 dBi
Number Antenna:	4 pcs
Limit:	8 dBm

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

Effective Legacy Gain (dBi) = 5.92dBi

Limit: 8dBm - (5.92- 6dBi)=8

Beam Forming Mode

Note:

Antenna Gain:	5.92 dBi
Aux1 Antenna Gain:	5.87 dBi
Aux2 Antenna Gain:	5.70 dBi
Aux3 Antenna Gain:	5.61 dBi
Number Antenna:	4 pcs
Limit:	8 dBm

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

Effective Legacy Gain (dBi) = 7.12dBi

Limit: 8dBm - (7.12- 6dBi)=6.88dBm

12.5 Measurement Result

POWER DENSITY 802.11b					
Freq. (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Result
2412	3.98	0.18	4.16	8.00	PASS
2437	7.44	0.18	7.62	8.00	PASS
2462	3.98	0.18	4.16	8.00	PASS

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POWER DENSITY 802.11g					
Freq. (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Result
2412	-0.80	0.95	0.15	8.00	PASS
2437	5.58	0.95	6.53	8.00	PASS
2462	-2.68	0.95	-1.73	8.00	PASS

POWER DENSITY 802.11n HT20					
Freq. (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Result
2412	0.00	0.97	0.97	8.00	PASS
2437	5.67	0.97	6.64	8.00	PASS
2462	-2.52	0.97	-1.55	8.00	PASS

POWER DENSITY 802.11n HT40					
Freq. (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Result
2422	-6.12	1.85	-4.27	8.00	PASS
2437	2.91	1.85	4.76	8.00	PASS
2452	-8.46	1.85	-6.61	8.00	PASS

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	18.42	-11.58	2412	13.32	-16.68
2462	18.04	-11.96	2462	11.13	-18.87

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	13.57	-16.43	2422	7.88	-22.12
2462	12.92	-17.08	2452	6.79	-23.21

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Beam Forming Mode

POWER DENSITY 802.11n HT20					
Freq. (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Result
2412	-3.14	0.05	-3.09	6.88	PASS
2437	2.94	0.05	2.99	6.88	PASS
2462	-3.14	0.05	-3.09	6.88	PASS

POWER DENSITY 802.11n HT40					
Freq. (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Result
2422	-7.45	0.19	-7.26	6.88	PASS
2437	0.38	0.19	0.57	6.88	PASS
2452	-6.94	0.19	-6.75	6.88	PASS

Bandedge Limit 802.11n20 MODE		
Freq. (MHz)	PSD (dBm)	Bandedge Limit (dBm)
2412	13.35	-16.65
2462	14.06	-15.94

Bandedge Limit 802.11n40 MODE		
Freq. (MHz)	PSD (dBm)	Bandedge Limit (dBm)
2422	8.37	-21.63
2452	9.18	-20.82

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802.11b

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



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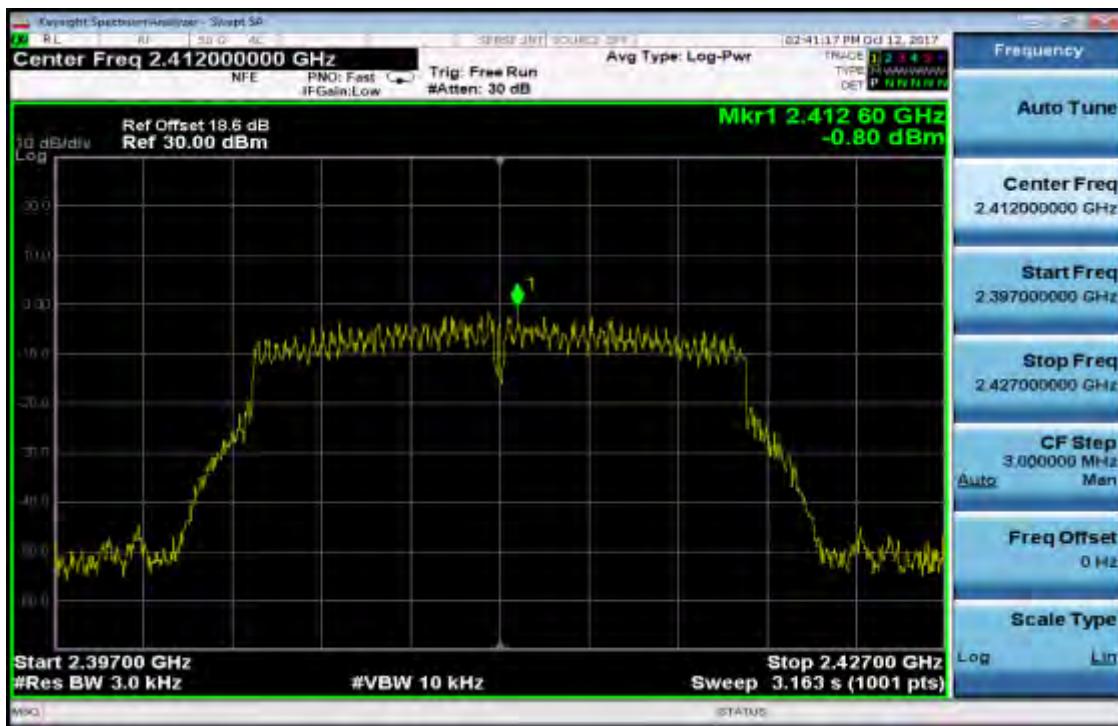
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Power Spectral Density Test Plot (CH-High)



802.11g

Power Spectral Density Test Plot (CH-Low)

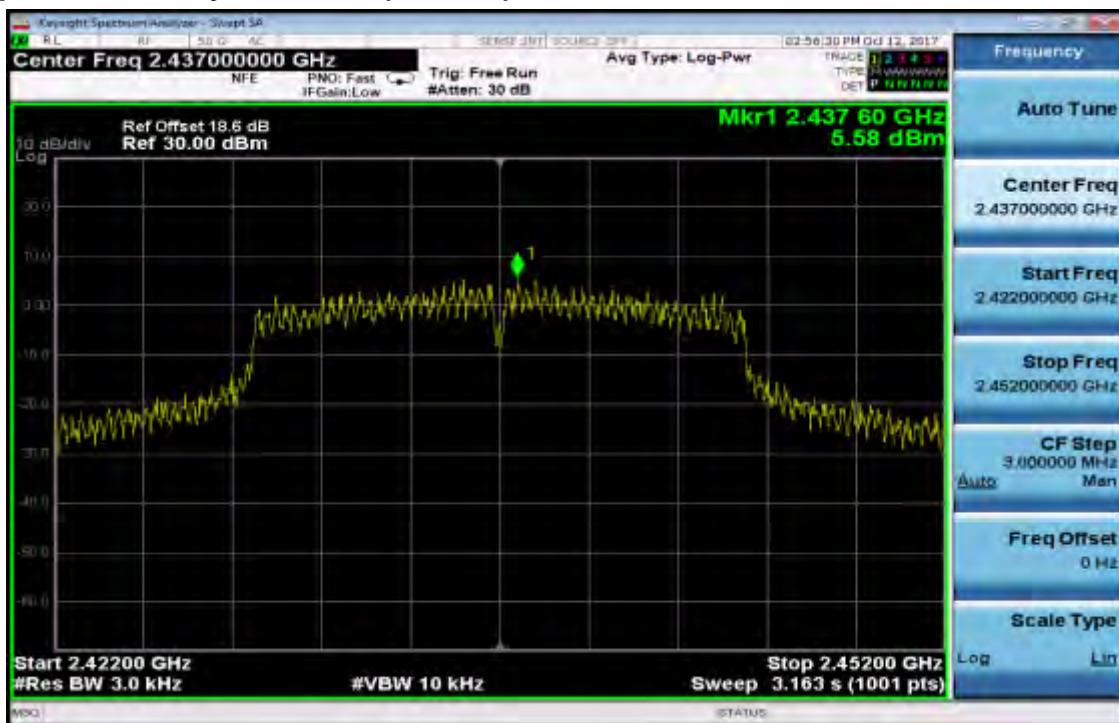


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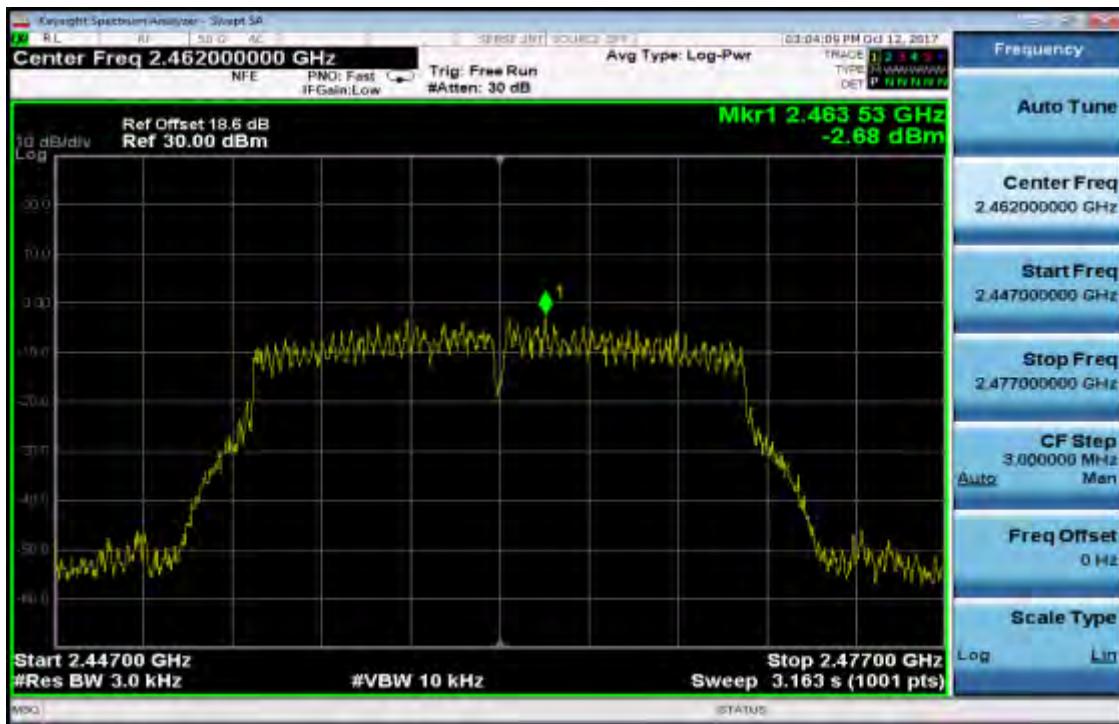
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Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



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CDD Mode

802.11n_HT20 (MIMO)

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



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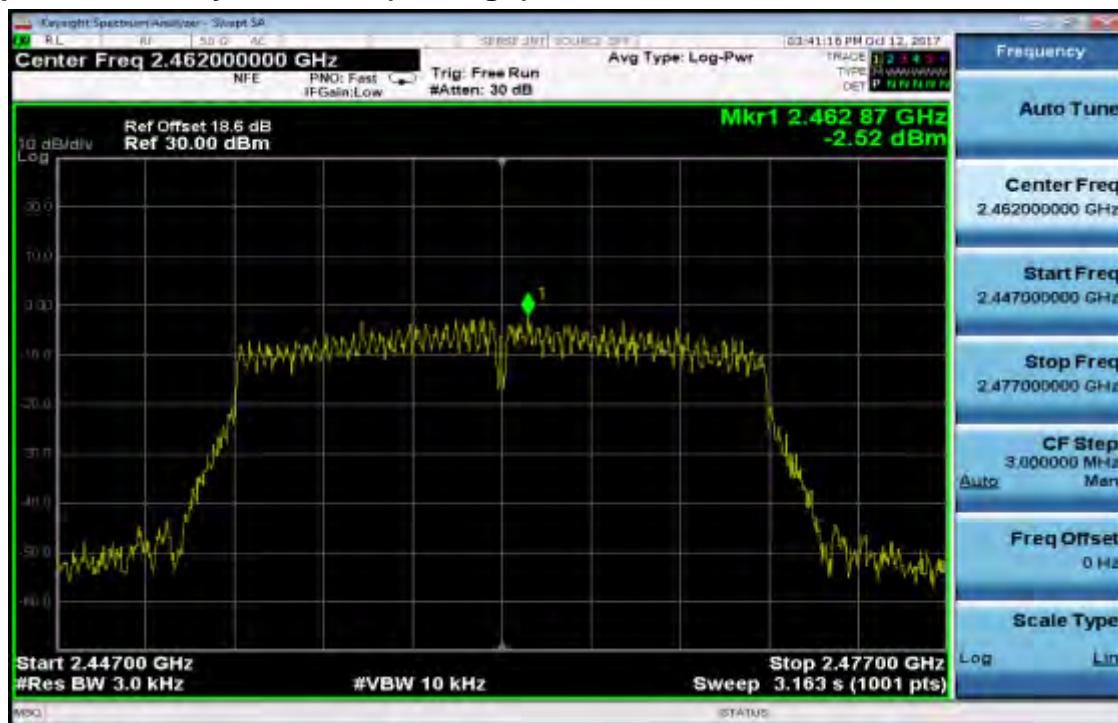
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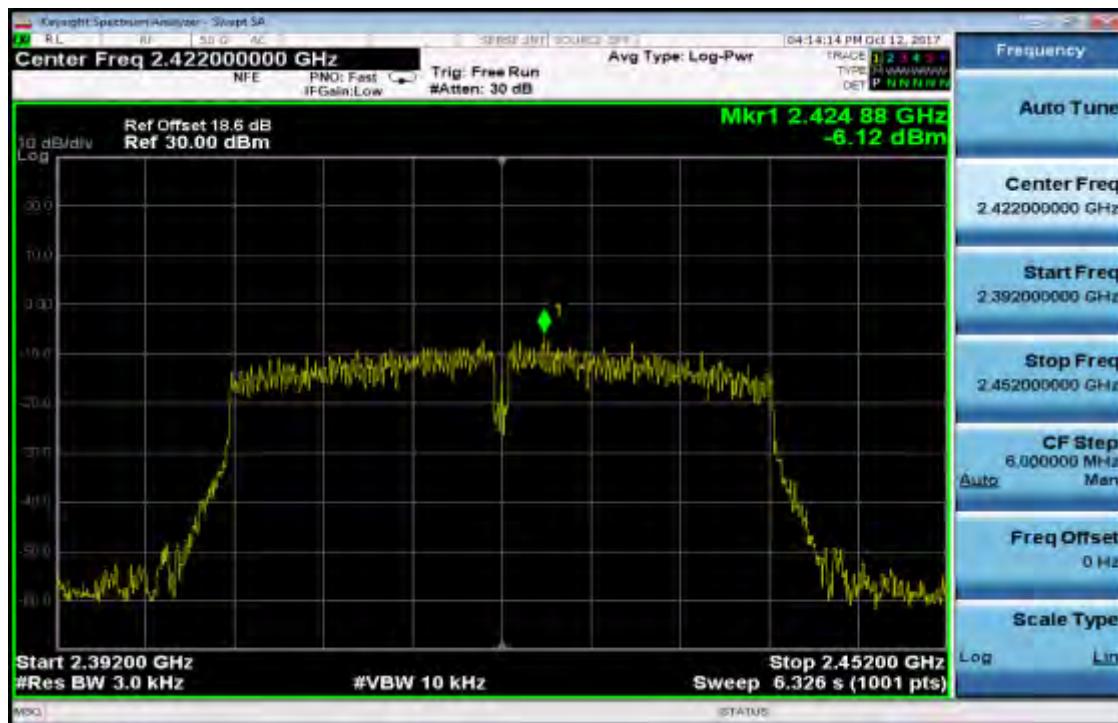
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Power Spectral Density Test Plot (CH-High)



802.11n_HT40 (MIMO)

Power Spectral Density Test Plot (CH-Low)



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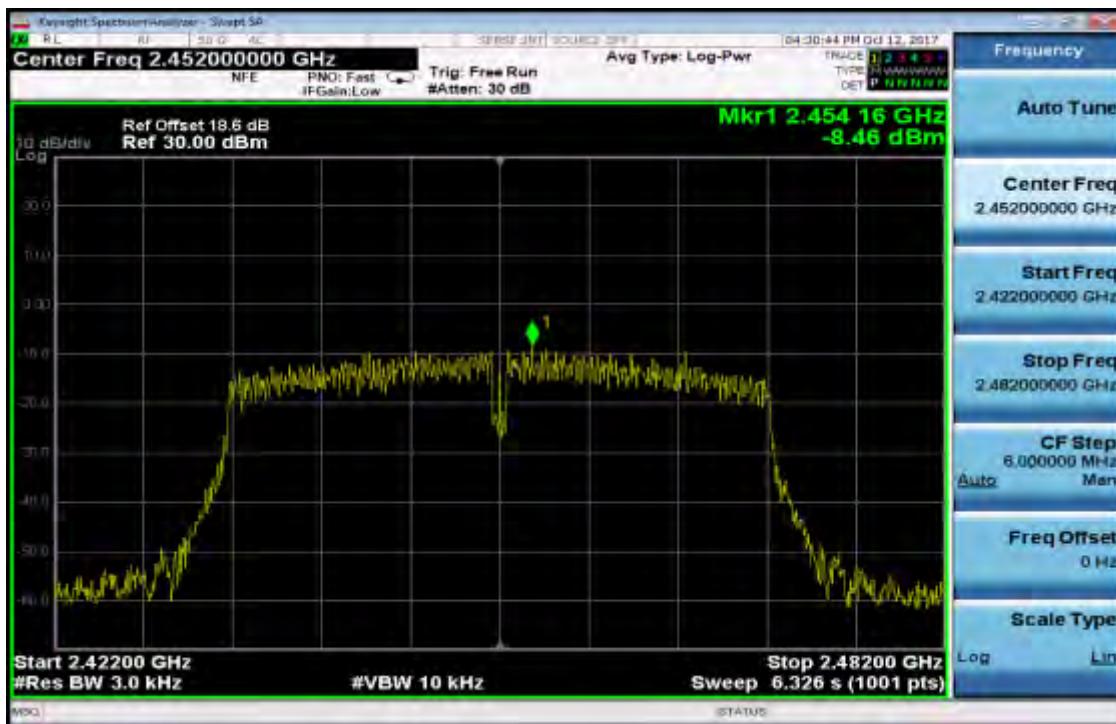
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Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



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802.11b PSD for Bandedge 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)



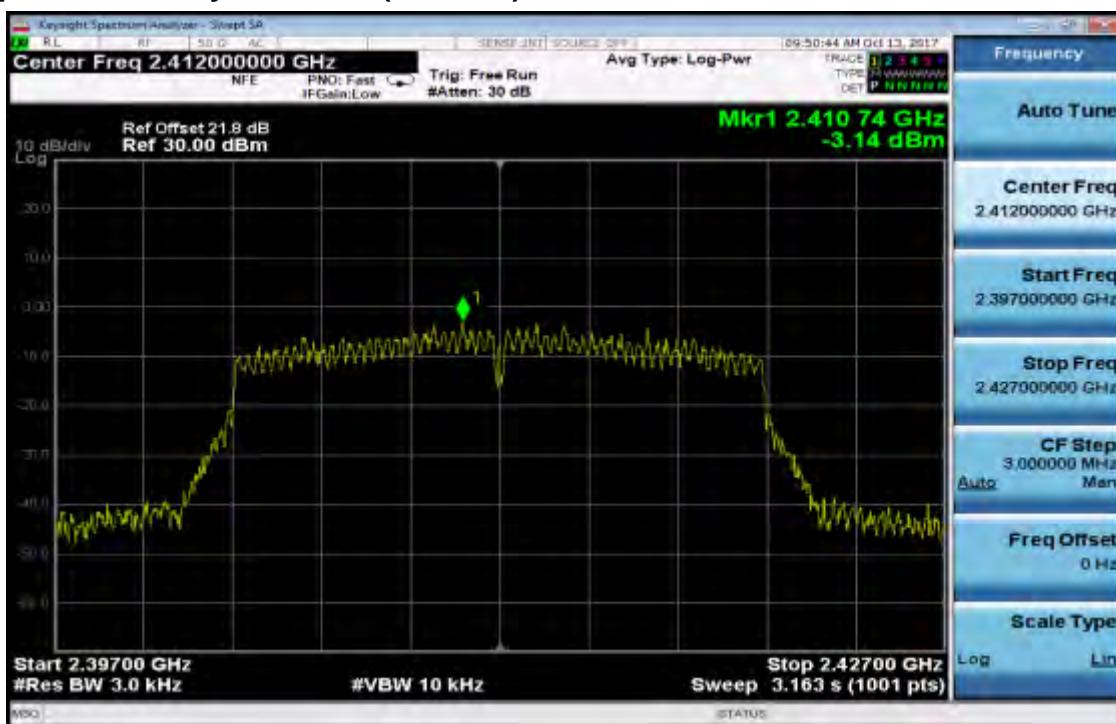
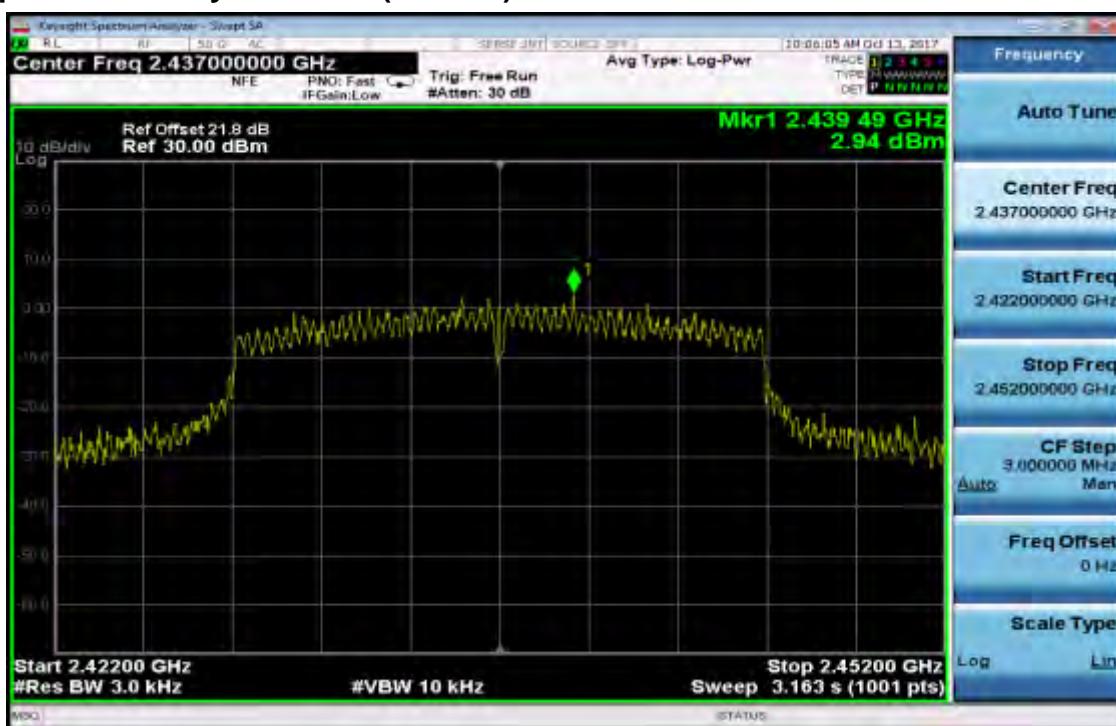
802.11n_HT40 PSD for Bandedge Limit(CH-High)



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Beam Forming Mode**802.11n_HT20 (MIMO)****Power Spectral Density Test Plot (CH-Low)****Power Spectral Density Test Plot (CH-Mid)**

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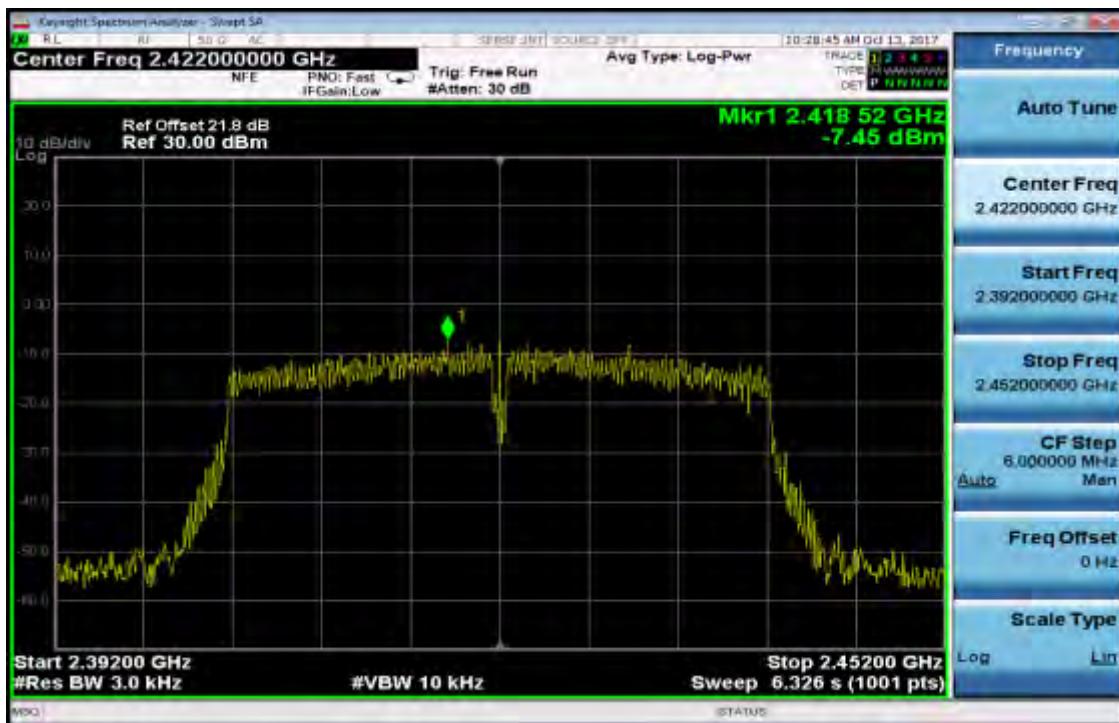
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Power Spectral Density Test Plot (CH-High)



802.11n_HT40 (MIMO)

Power Spectral Density Test Plot (CH-Low)

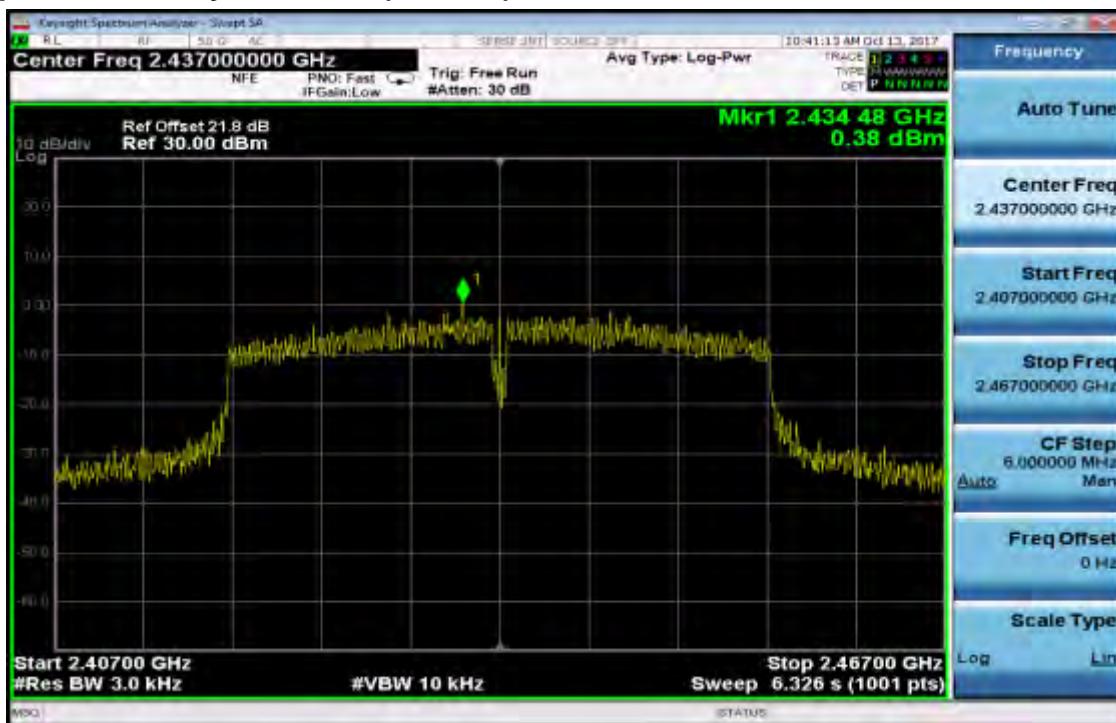


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Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (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.

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.

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