

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: AC2600 Home WiFi Roaming Router

Brand Name: EDIMAX

Marketing Name: RG21S

Model No.: BR-6877ACR , BR-6877AC, EW-7877APC, RG21S, RA21S, RG21, RA21, RE22S, RG22S, RA22S, RG22S V2, RA22S V2, RE22S V2, CV-6877AC, RE21S, RG21K, RG21S V2, RA21S V2

Model Difference: Marketing purpose

FCC ID: NDD9568771606

Report No.: ER/2016/50024

Issue Date: Aug. 08, 2016

FCC Rule Part: §15.247, Cat: DTS

Prepared for: EDIMAX TECHNOLOGY CO., LTD.
No.3,Wu-Chuan 3rd Road,Wu-Ku Industrial Park, New Taipei City, Taiwan
SGS Taiwan Ltd.
Electronics & Communication Laboratory

Prepared by: No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan
24803



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VERIFICATION OF COMPLIANCE

Applicant: EDIMAX TECHNOLOGY CO., LTD.
No.3,Wu-Chuan 3rd Road,Wu-Ku Industrial Park, New Taipei
City, Taiwan

Product Name: AC2600 Home WiFi Roaming Router

Brand Name: EDIMAX

Marketing Name: RG21S

Model No.: BR-6877ACR , BR-6877AC, EW-7877APC, RG21S, RA21S,
RG21, RA21, RE22S, RG22S, RA22S, RG22S V2, RA22S V2,
RE22S V2, CV-6877AC, RE21S, RG21K, RG21S V2, RA21S V2

Model Difference: Marketing purpose

FCC ID: NDD9568771606

File Number: ER/2016/50024

Date of Test: May 05, 2016 ~ Aug. 01, 2016

Date of EUT Received: May 05, 2016

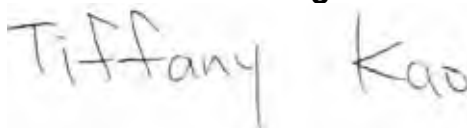
We hereby certify that:

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

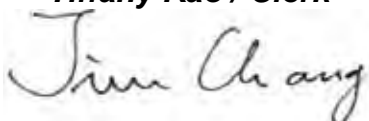
The test results of this report relate only to the tested sample identified in this report.

Test By:**Date:**

Aug. 08, 2016

Louis Chen / Engineer**Prepared By:****Date:**

Aug. 08, 2016

Tiffany Kao / Clerk**Approved
By:****Date:**

Aug. 08, 2016

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
ER/2016/50024	Rev.00	Initial creation of document	Aug. 08, 2016

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1 GENERAL INFORMATION

1.1 Product description

General:

Product Name:	AC2600 Home WiFi Roaming Router	
Brand Name:	EDIMAX	
Marketing Name:	RG21S	
Model No.:	BR-6877ACR , BR-6877AC, EW-7877APC, RG21S, RA21S, RG21, RA21, RE22S, RG22S, RA22S, RG22S V2, RA22S V2, RE22S V2, CV-6877AC, RE21S, RG21K, RG21S V2, RA21S V2	
Model difference:	Marketing purpose	
Hardware Version:	N/A	
Software Version:	N/A	
Power Supply:	12V from DC Power Supply	
	Adapter:	Model No.: WB-18D12R, Supplier: Asian Power Devices Inc.

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WLAN 2.4GHz:

Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology
11b/g	2412-2462	11	b: 20.66dBm (MIMO Chain 0+1+2+3) g: 27.75dBm (MIMO Chain 0+1+2+3)	DSSS, OFDM
11n	HT/VHT20 2412-2462	11	CDD Mode: HT20:28.44dBm Beam Forming Mode: HT20:26.39dBm (MIMO Chain 0+1+2+3)	OFDM
11n	HT/VHT40 2422-2452	7	CDD Mode: HT40: 28.92dBm Beam Forming Mode: HT40:26.75dBm (MIMO Chain 0+1+2+3)	OFDM
Antenna Designation		PIFA Antenna 1. Model No.: BR-6877AC, Supplier: LYNwave 2.4GHz Gain: 4.65dBi 2. Model No.: BR-6877AC, Supplier: LYNwave 2.4GHz Gain: 3.15dBi Dipole Antenna 1. Model No.: 98324URSX000, Supplier: Master Wave 2.4GHz Gain: 5.18dBi 2. Model No.: 98324URSX000, Supplier: Master Wave 2.4GHz Gain: 5.18dBi		
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 Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is supporting, Wi-Fi 802.11 a/b/g/n & ac features, and below is details of information.

Product Feature	
Product Name:	AC2600 Home WiFi Roaming Router
Brand Name:	EDIMAX
Marketing Name:	RG21S
Model No.:	BR-6877ACR, EW-7877APC
Model Difference:	Marketing purpose
FCC ID:	NDD9568771606
Wi-Fi Specification	802.11a/b/g/n/ac

Note: The above EUT information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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1.3 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:

1. All test items have been performed and record as per the above standards.
2. The composite system is compliance with FCC Subpart B is authorized under a DoC procedure.

1.4 Test Facility

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

(TAF code 0513)

FCC Registration Numbers are: 509634

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this 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 8.52dB and 10dB attenuator.

Offset:

= RF cable loss (dB)+ attenuation factor(dB) dB =12.5(dB) (SISO)
= RF cable loss (dB)+ attenuation factor(dB) dB =18.52(dB) (MIMO)

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2.5 Configuration of Tested System

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

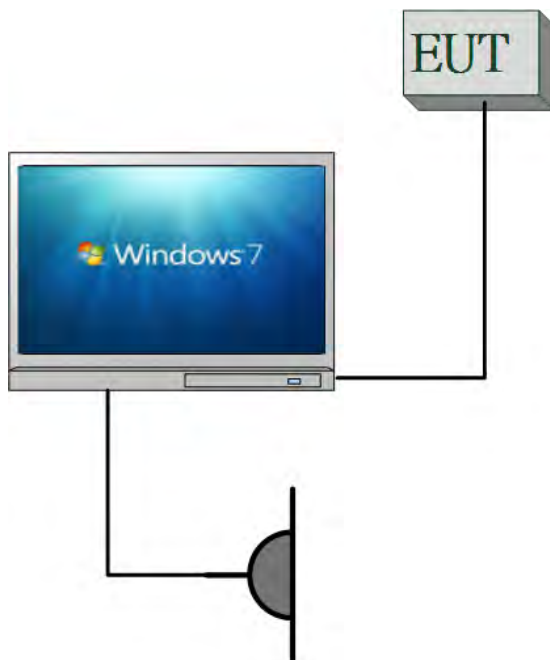


Fig. 2-2 AC Power Line Conducted Emission

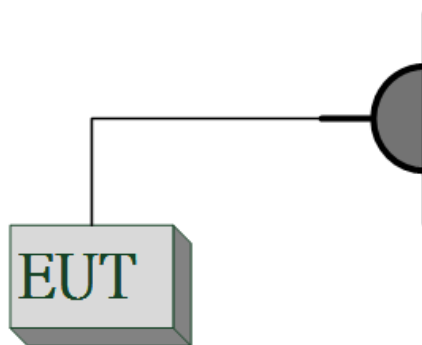


Table 2-1 Equipment Used in Tested System

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

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3 SUMMARY OF TEST RESULTS

FCC Rules / IC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	Peak Output Power	Compliant
§15.247(a)(2)	6dB 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.

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Directional gain (MIMO)

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

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

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

Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{\text{ANT}}]$ dBi [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	05/10/2016	05/09/2017
LISN	SCHWARZ BECK	NSLK 8127	8127-649	05/16/2016	05/15/2017
LISN	MESS TEC	FCC-LISN-50/250-2 5-2-01	4034	05/16/2016	05/15/2017
Coaxial Cables	N/A	WK CE Cable	N/A	11/26/2015	11/25/2016

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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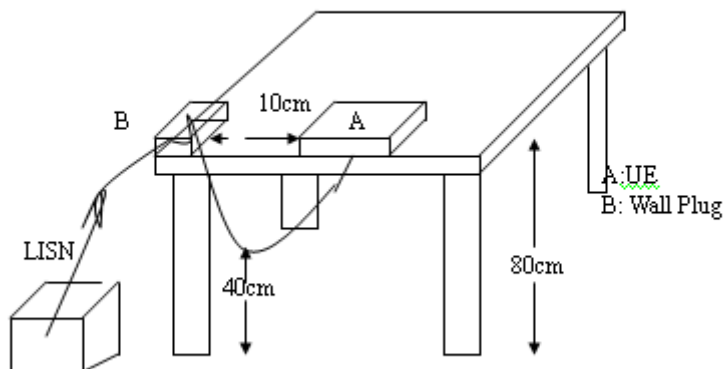
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6.4 Test SET-UP (Block Diagram of Configuration)



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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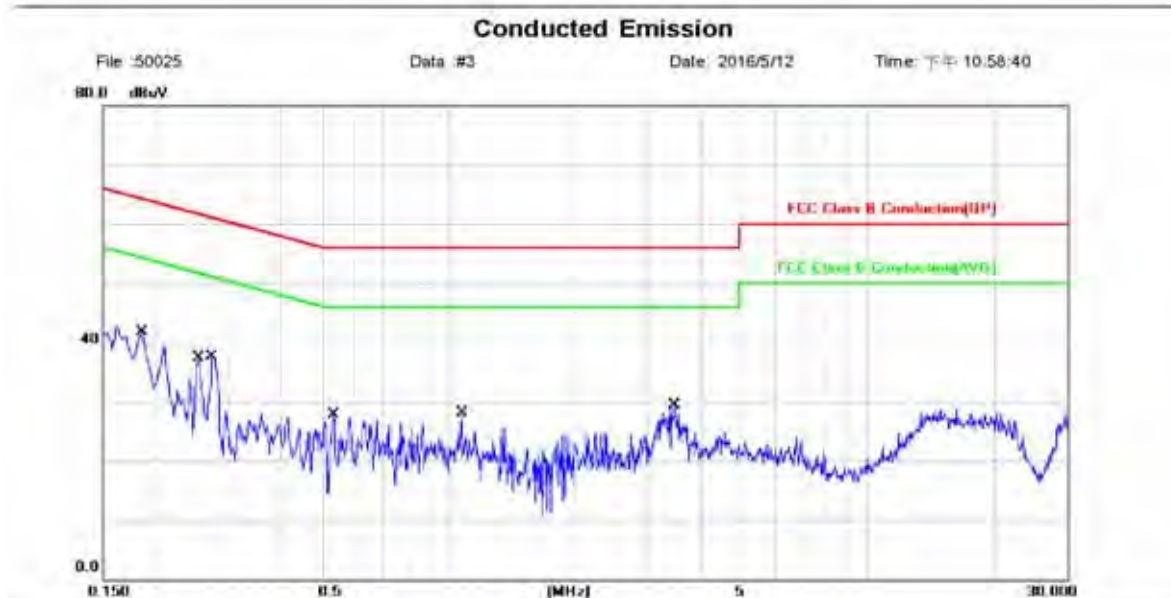
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode			Test Date:	May 12, 2016
Temperature:	26	Humidity:	54 %	Test By:	Marcus
				Phase:	L1

Site: Conduction Room	Phase: L1	Temperature: 25 °C
Limit: FCC Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 62 %
Mode: Mode 2		
Note:		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1860	39.70	0.13	39.83	64.21	-24.38	QP	
2		0.1860	34.40	0.13	34.53	54.21	-19.68	AVG	
3		0.2540	38.00	0.13	38.13	61.63	-23.50	QP	
4		0.2540	33.50	0.13	33.63	51.63	-18.00	AVG	
5		0.2760	36.40	0.13	36.53	60.94	-24.41	QP	
6 *		0.2760	34.80	0.13	34.93	50.94	-16.01	AVG	
7		0.5340	24.70	0.15	24.85	56.00	-31.15	QP	
8		0.5340	16.80	0.15	16.95	46.00	-29.05	AVG	
9		1.0780	21.80	0.16	21.96	56.00	-34.04	QP	
10		1.0780	14.40	0.16	14.56	46.00	-31.44	AVG	
11		3.4820	23.90	0.22	24.12	56.00	-31.88	QP	
12		3.4820	14.30	0.22	14.52	46.00	-31.48	AVG	

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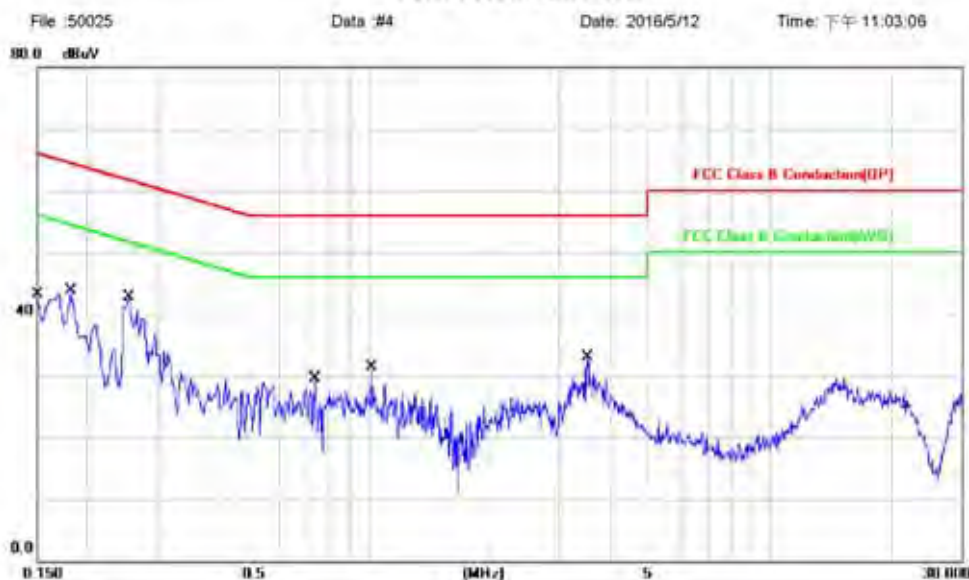
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Site: Conduction Room Phase: **N** Temperature: 25 °C
Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 62 %
Mode: Mode 2
Note:

Conducted Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1		0.1500	42.61	0.20	42.81	66.00	-23.19	QP	
2		0.1500	30.71	0.20	30.91	56.00	-25.09	AVG	
3		0.1820	39.50	0.20	39.70	64.39	-24.69	QP	
4		0.1820	30.60	0.20	30.80	54.39	-23.59	AVG	
5		0.2540	42.30	0.19	42.49	61.63	-19.14	QP	
6 *		0.2540	40.10	0.19	40.29	51.63	-11.34	AVG	
7		0.7380	24.40	0.21	24.61	56.00	-31.39	QP	
8		0.7380	21.70	0.21	21.91	46.00	-24.09	AVG	
9		1.0260	23.30	0.21	23.51	56.00	-32.49	QP	
10		1.0260	16.00	0.21	16.21	46.00	-29.79	AVG	
11		3.5180	26.00	0.27	26.27	56.00	-29.73	QP	
12		3.5180	16.70	0.27	16.97	46.00	-29.03	AVG	

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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	100.00	0.00
802.11g	82.67	0.83
802.11n_20	55.02	2.59
802.11n_40	39.77	4.00

$$b = 100\%, g = 82.67\%, n_{ht_20} = 55.02\%, n_{ht40} = 39.77\%$$

$$\text{Duty Cycle Factor: } 10 * \log(1/1) = 0$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.8267) = 0.83$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.5502) = 2.59$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.3977) = 4$$

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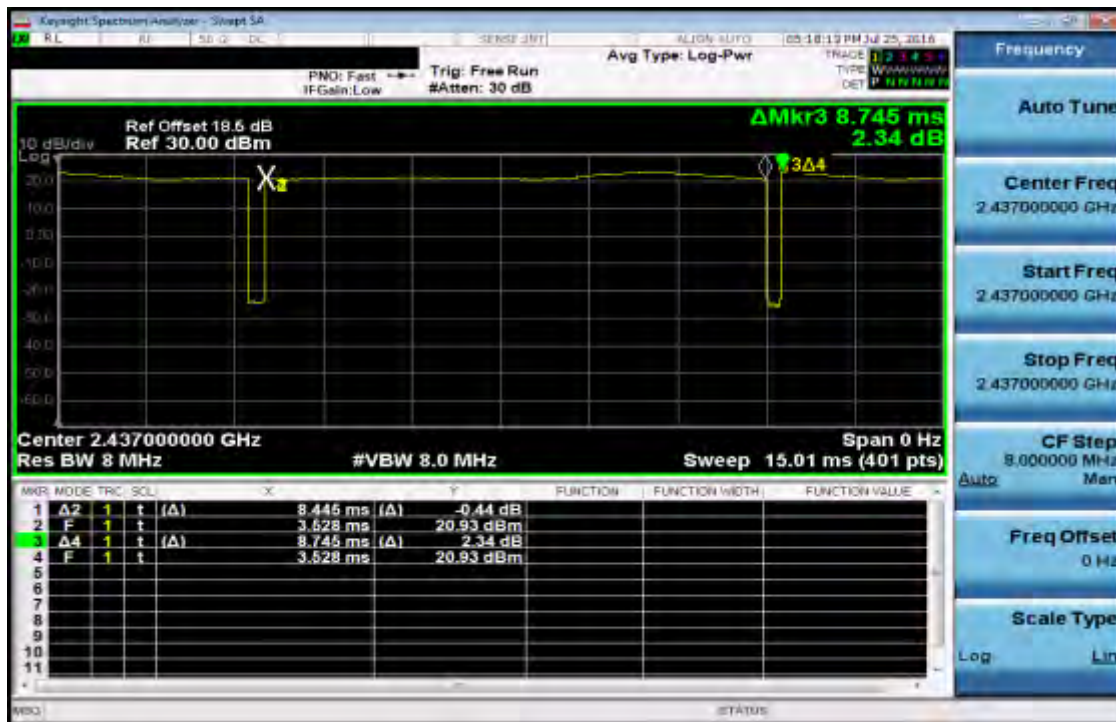
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7.1 DUTY CYCLE TEST SIGNAL Measurement Result

802.11 b



802.11 g



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802.11 n_20 MHz



802.11 n_40 MHz



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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

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

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

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

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $NANT \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any NANT;

Array Gain = $5 \log(NANT/NSS)$ dB or 3 dB, whichever is less for 20-MHz channel widths with $NANT \geq 5$.

For power measurements on all other devices: Array Gain = $10 \log(NANT/NSS)$ dB.

Main Antenna Gain: 5.18 dBi

Aux1 Antenna Gain: 5.18 dBi

Number Antenna: 2 pcs

Limit: 30 dBm

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

Directional gain = gain of antenna element + $10 \log(\# \text{ of TX antenna elements})$

Effective Legacy Gain (dBi) = $5.18 + 3.01 = 8.19 \text{ dBi}$

Limit: $30 \text{ dBm} - (8.19 - 6 \text{ dBi}) = 27.81 \text{ dBm}$

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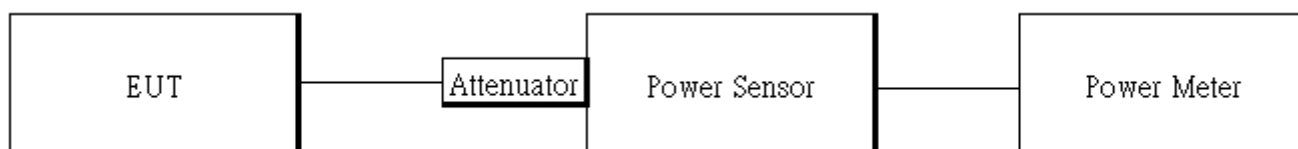
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8.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	12/09/2015	12/08/2016
Power Sensor	Anritsu	MA2411B	917032	12/09/2015	12/08/2016
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017
Splitter	Agilent	11636B	N/A	01/02/2016	01/01/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/05/2015	11/04/2016
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2016	05/16/2017

8.3 Test Set-up

Power Meter:



8.4 Measurement Procedure

- Place the EUT on the table and set it in transmitting mode.
- The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
- 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.

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

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8.5 Measurement Result

802.11b_MIMO										
CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)				Total Peak Output Power (dBm)	Total Peak Output Power (mW)	Limit	RESULT
			CH 0	CH 1	CH 2	CH3				
1	2412	1	14.35	12.93	13.14	12.88	19.39	86.88	1 Watt = 30.00 dBm	PASS
6	2437	1	15.59	14.23	14.56	14.02	20.66	116.52	1 Watt = 30.00 dBm	PASS
11	2462	1	15.31	14.17	14.68	14.21	20.64	115.82	1 Watt = 30.00 dBm	PASS

802.11b_MIMO										
CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)				Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
			CH 0	CH 1	CH 2	CH3				
1	2412	1	11.93	10.53	11.12	10.57	17.10	51.24	1 Watt = 30.00 dBm	PASS
6	2437	1	13.02	12.01	12.16	11.96	18.33	68.08	1 Watt = 30.00 dBm	PASS
11	2462	1	13.19	11.88	12.46	11.87	18.41	69.26	1 Watt = 30.00 dBm	PASS

802.11g_MIMO										
CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)				Total Peak Output Power (dBm)	Total Peak Output Power (mW)	Limit	RESULT
			CH 0	CH 1	CH 2	CH3				
1	2412	6	20.33	18.87	19.54	19.06	25.51	355.47	1 Watt = 30.00 dBm	PASS
6	2437	6	22.27	21.42	21.73	21.44	27.75	595.58	1 Watt = 30.00 dBm	PASS
11	2462	6	20.41	19.15	19.66	19.13	25.64	366.44	1 Watt = 30.00 dBm	PASS

802.11g_MIMO										
CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)				Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
			CH 0	CH 1	CH 2	CH3				
1	2412	6	10.31	9.12	9.48	9.44	15.63	36.57	1 Watt = 30.00 dBm	PASS
6	2437	6	12.79	11.55	12.23	11.91	18.16	65.53	1 Watt = 30.00 dBm	PASS
11	2462	6	10.21	9.02	9.82	9.31	15.63	36.60	1 Watt = 30.00 dBm	PASS

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CDD Mode:

802.11n_HT20M MIMO										
CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)				Total Peak Output Power (dBm)	Total Peak Output Power (mW)	Limit	RESULT
			CH 0	CH 1	CH 2	CH3				
1	2412	MCS8	23.01	22.04	22.29	22.29	28.44	698.81	1 Watt = 30.00 dBm	PASS
6	2437	MCS8	23.05	21.98	22.14	22.41	28.44	697.46	1 Watt = 30.00 dBm	PASS
11	2462	MCS8	23.03	21.75	22.19	22.23	28.35	683.22	1 Watt = 30.00 dBm	PASS
802.11n_HT20M MIMO										
CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)				Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
			CH 0	CH 1	CH 2	CH3				
1	2412	MCS8	12.15	11.89	12.43	12.41	18.25	66.77	1 Watt = 30.00 dBm	PASS
6	2437	MCS8	12.93	11.91	12.32	12.06	18.34	68.29	1 Watt = 30.00 dBm	PASS
11	2462	MCS8	13.07	11.91	12.46	12.11	18.43	69.68	1 Watt = 30.00 dBm	PASS
802.11n_HT40M MIMO										
CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)				Total Peak Output Power (dBm)	Total Peak Output Power (mW)	Limit	RESULT
			CH 0	CH 1	CH 2	CH3				
3	2422	MCS8	22.22	21.55	21.68	21.47	27.76	597.13	1 Watt = 30.00 dBm	PASS
6	2437	MCS8	23.32	22.72	22.96	22.57	28.92	780.27	1 Watt = 30.00 dBm	PASS
9	2452	MCS8	23.23	22.57	22.91	22.35	28.80	758.32	1 Watt = 30.00 dBm	PASS
802.11n_HT40M MIMO										
CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)				Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
			CH 0	CH 1	CH 2	CH3				
3	2422	MCS8	10.92	9.76	10.32	10.39	16.39	43.53	1 Watt = 30.00 dBm	PASS
6	2437	MCS8	12.61	11.59	11.97	12.23	18.14	65.11	1 Watt = 30.00 dBm	PASS
9	2452	MCS8	12.54	11.57	12.11	12.22	18.14	65.23	1 Watt = 30.00 dBm	PASS

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Beam Forming Mode:

802.11n_HT20M MIMO										
CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)				Total Peak Output Power (dBm)	Total Peak Output Power (mW)	Limit	RESULT
			CH 0	CH 1	CH 2	CH3				
1	2412	MCS24	20.87	19.76	20.33	20.45	26.39	435.62	1 Watt = 27.81 dBm	PASS
6	2437	MCS24	20.80	19.76	20.23	20.45	26.35	431.21	1 Watt = 27.81 dBm	PASS
11	2462	MCS24	20.86	19.68	20.39	20.32	26.35	431.84	1 Watt = 27.81 dBm	PASS

802.11n_HT20M MIMO										
CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)				Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
			CH 0	CH 1	CH 2	CH3				
1	2412	MCS24	12.48	11.65	12.29	11.84	18.10	64.54	1 Watt = 27.81 dBm	PASS
6	2437	MCS24	12.56	11.73	12.37	11.82	18.15	65.39	1 Watt = 27.81 dBm	PASS
11	2462	MCS24	12.57	11.68	12.64	11.74	18.20	66.09	1 Watt = 27.81 dBm	PASS

802.11n_HT40M MIMO										
CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)				Total Peak Output Power (dBm)	Total Peak Output Power (mW)	Limit	RESULT
			CH 0	CH 1	CH 2	CH3				
3	2422	MCS24	19.98	19.37	19.86	19.36	25.67	369.16	1 Watt = 27.81 dBm	PASS
6	2437	MCS24	20.92	20.37	21.06	20.54	26.75	473.37	1 Watt = 27.81 dBm	PASS
9	2452	MCS24	20.98	20.25	21.02	20.42	26.70	467.87	1 Watt = 27.81 dBm	PASS

802.11n_HT40M MIMO										
CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)				Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
			CH 0	CH 1	CH 2	CH3				
3	2422	MCS24	11.58	10.73	11.33	11.01	17.19	52.42	1 Watt = 27.81 dBm	PASS
6	2437	MCS24	12.76	11.88	12.52	12.18	18.37	68.68	1 Watt = 27.81 dBm	PASS
9	2452	MCS24	12.61	12.09	12.76	12.24	18.45	70.05	1 Watt = 27.81 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

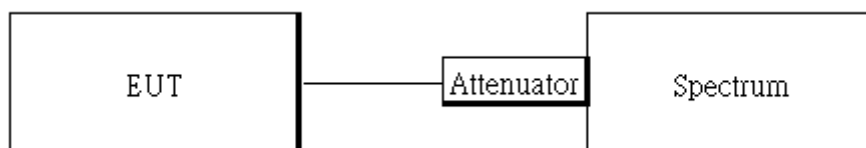
9.1 Standard Applicable

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	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017

9.3 Test Set-up



9.4 Measurement Procedure

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

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9.5 Measurement Result

6dB Bandwidth

802.11b Main

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	9078	> 500	PASS
2437	9079	> 500	PASS
2462	9071	> 500	PASS

802.11b Aux1

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	9066	> 500	PASS
2437	9076	> 500	PASS
2462	9078	> 500	PASS

802.11b Aux2

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	9066	> 500	PASS
2437	9059	> 500	PASS
2462	9071	> 500	PASS

802.11b Aux3

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	9061	> 500	PASS
2437	9072	> 500	PASS
2462	9076	> 500	PASS

802.11g Main

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	15150	> 500	PASS
2437	15150	> 500	PASS
2462	15130	> 500	PASS

802.11g Aux1

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	15140	> 500	PASS
2437	15110	> 500	PASS
2462	15130	> 500	PASS

802.11g Aux2

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	15110	> 500	PASS
2437	15110	> 500	PASS
2462	15140	> 500	PASS

802.11g Aux3

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	15080	> 500	PASS
2437	15100	> 500	PASS
2462	15120	> 500	PASS

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CDD Mode:

802.11_n_HT20 Main

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	15140	> 500	PASS
2437	15150	> 500	PASS
2462	15140	> 500	PASS

802.11_n_HT20 Aux1

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	15720	> 500	PASS
2437	15730	> 500	PASS
2462	15720	> 500	PASS

802.11_n_HT20 Aux2

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	15140	> 500	PASS
2437	15140	> 500	PASS
2462	15140	> 500	PASS

802.11_n_HT20 Aux3

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	15150	> 500	PASS
2437	15150	> 500	PASS
2462	15120	> 500	PASS

802.11_n_HT40 Main

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2422	35100	> 500	PASS
2437	35100	> 500	PASS
2452	35120	> 500	PASS

802.11_n_HT40 Aux1

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2422	35170	> 500	PASS
2437	35110	> 500	PASS
2452	35110	> 500	PASS

802.11_n_HT40 Aux2

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2422	35110	> 500	PASS
2437	35090	> 500	PASS
2452	35090	> 500	PASS

802.11_n_HT40 Aux3

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2422	35080	> 500	PASS
2437	35110	> 500	PASS
2452	35100	> 500	PASS

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Beam Forming Mode:

802.11_n_HT20 Main

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	15110	> 500	PASS
2437	15140	> 500	PASS
2462	15110	> 500	PASS

802.11_n_HT20 Aux1

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	15690	> 500	PASS
2437	15690	> 500	PASS
2462	15730	> 500	PASS

802.11_n_HT20 Aux2

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	15130	> 500	PASS
2437	15130	> 500	PASS
2462	15140	> 500	PASS

802.11_n_HT20 Aux3

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	15140	> 500	PASS
2437	15130	> 500	PASS
2462	15120	> 500	PASS

802.11_n_HT40 Main

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2422	35100	> 500	PASS
2437	35100	> 500	PASS
2452	35100	> 500	PASS

802.11_n_HT40 Aux1

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2422	35130	> 500	PASS
2437	35090	> 500	PASS
2452	35080	> 500	PASS

802.11_n_HT40 Aux2

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2422	35280	> 500	PASS
2437	35080	> 500	PASS
2452	35090	> 500	PASS

802.11_n_HT40 Aux3

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2422	35050	> 500	PASS
2437	35110	> 500	PASS
2452	35100	> 500	PASS

*Refer to next page for plots

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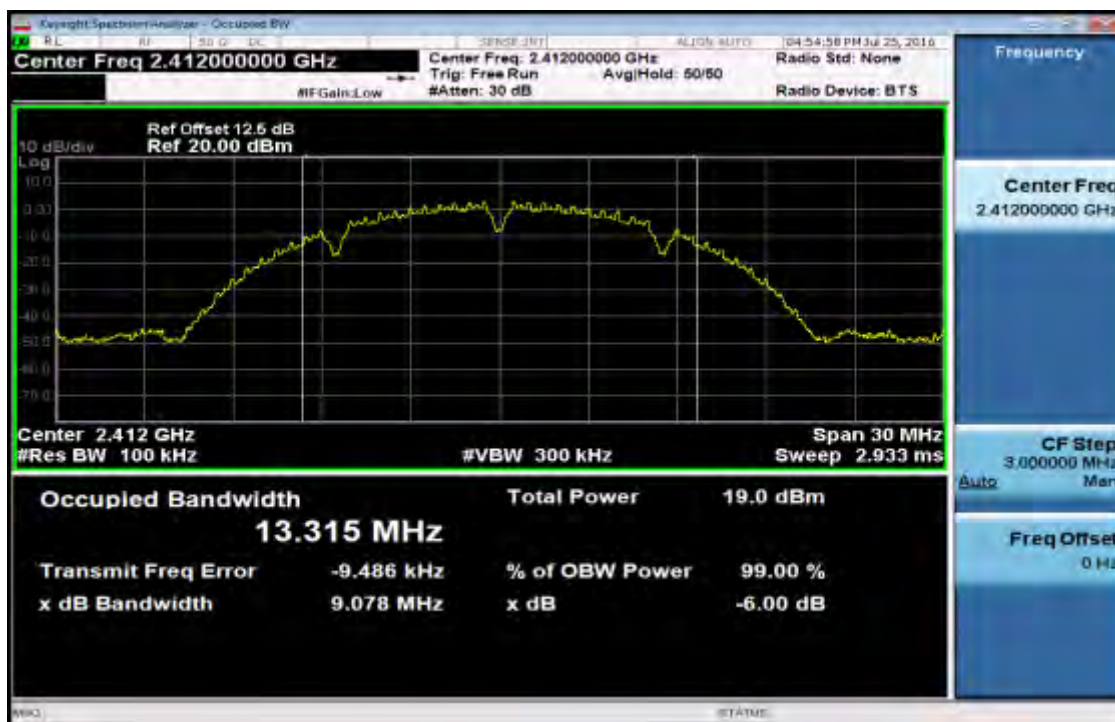
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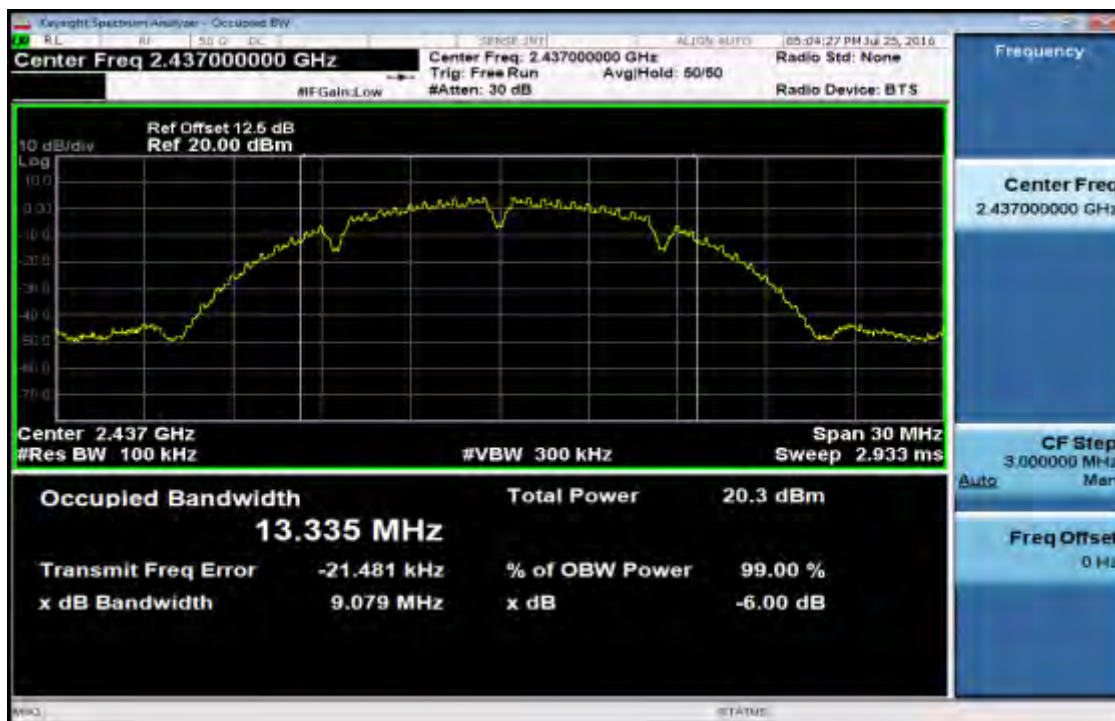
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802.11b (Main)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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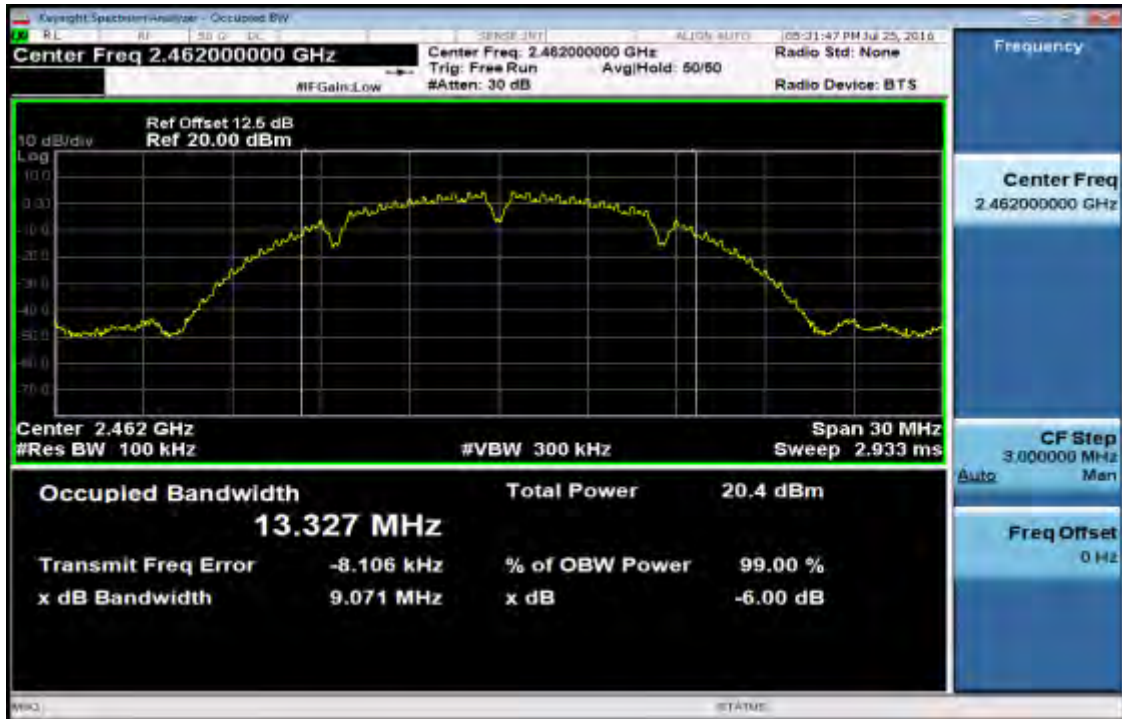
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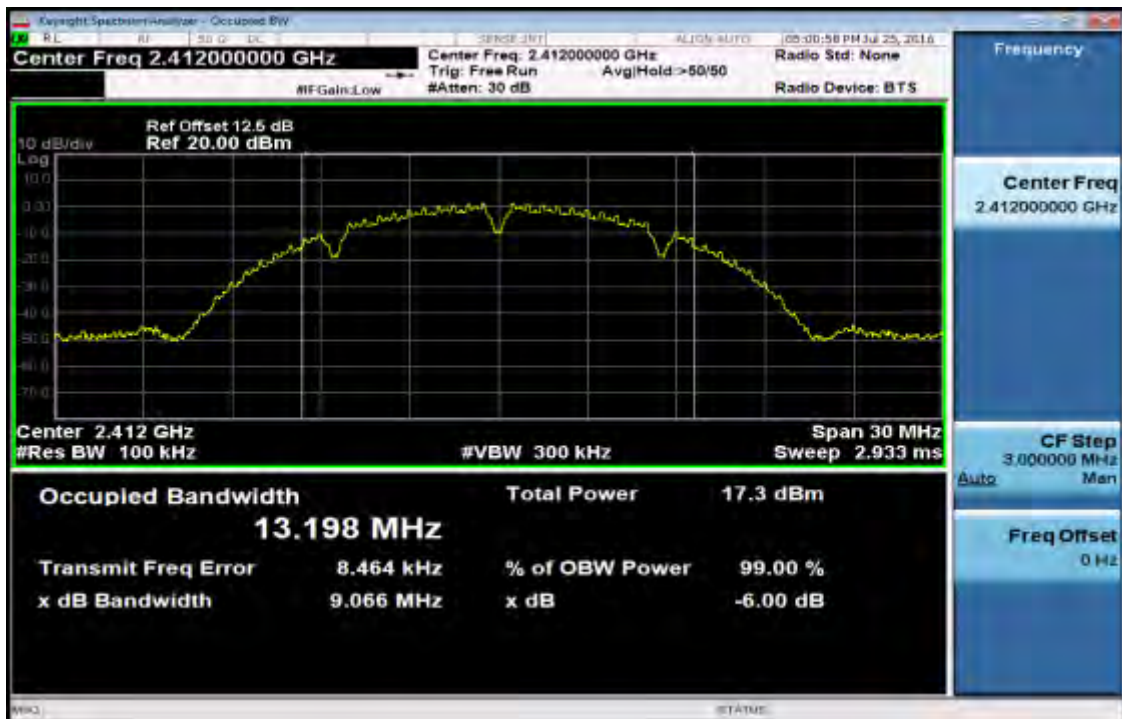
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6dB Band Width Test Data CH-High



802.11b (Aux 1)

6dB Band Width Test Data CH-Low



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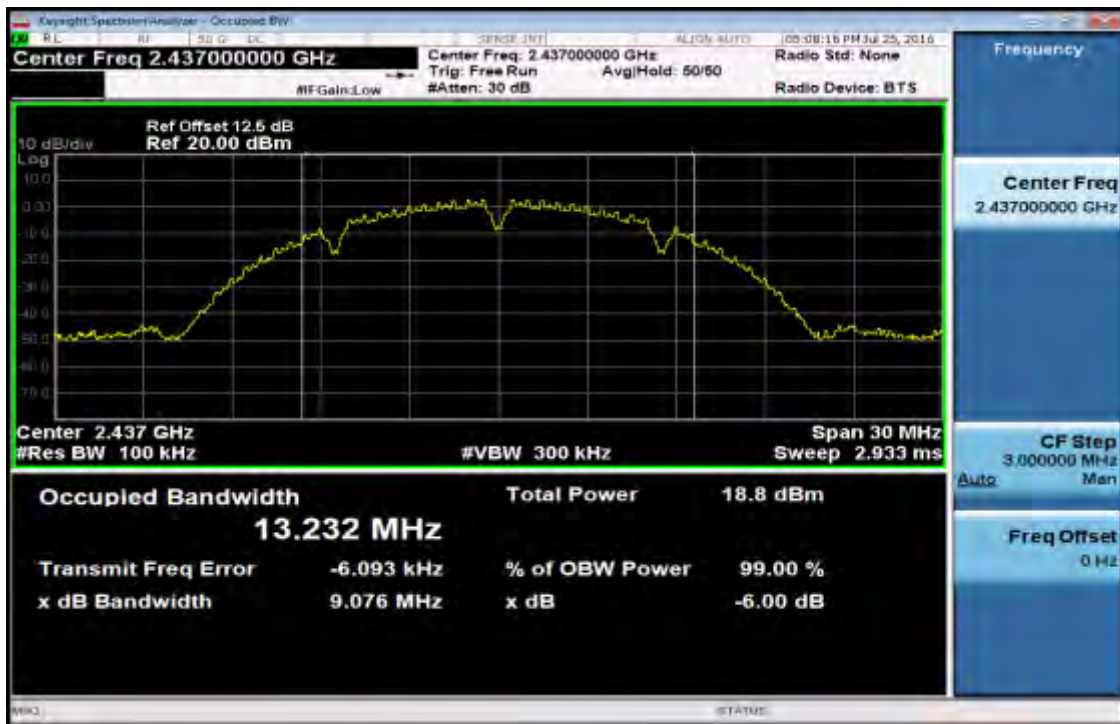
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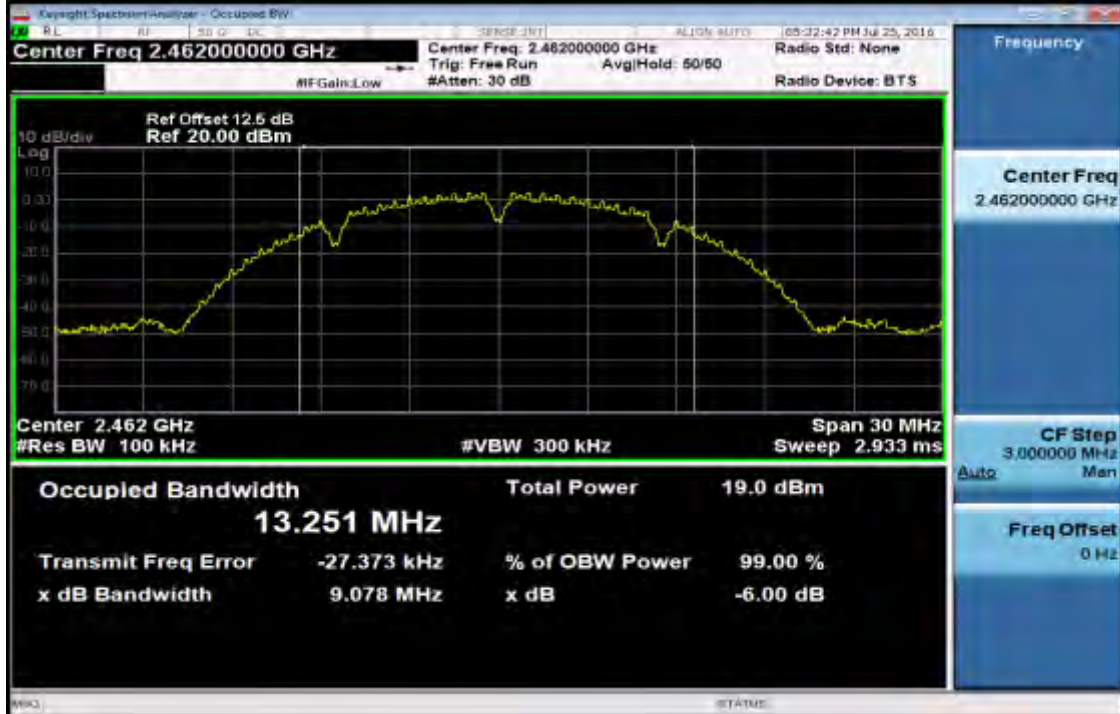
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



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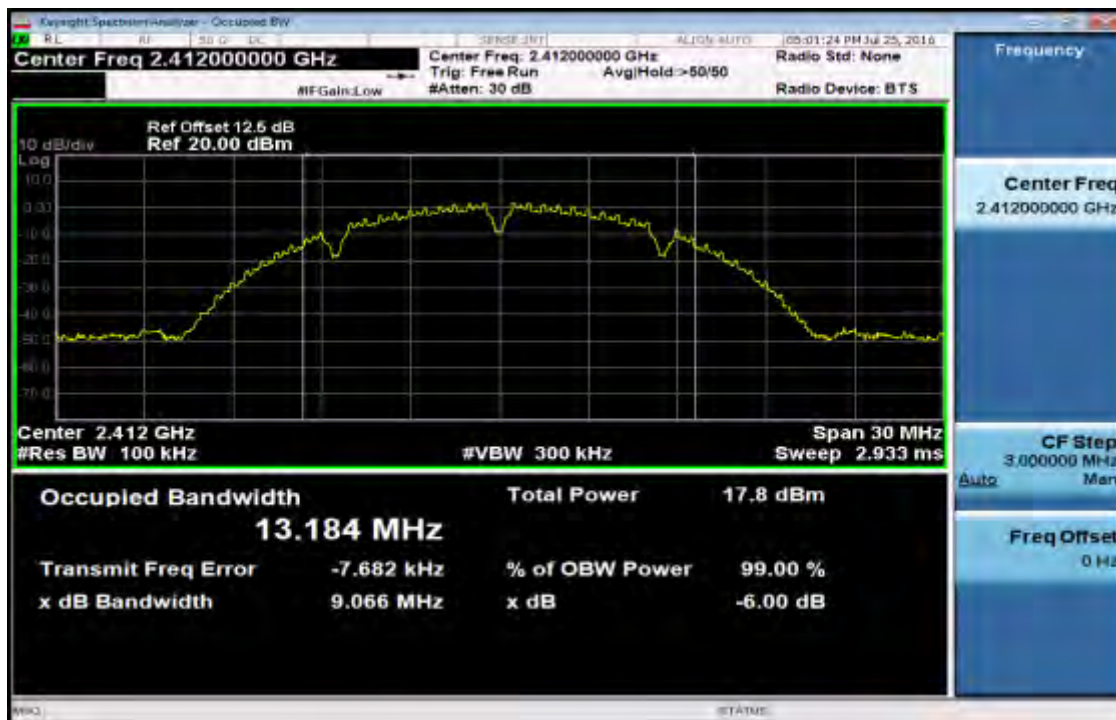
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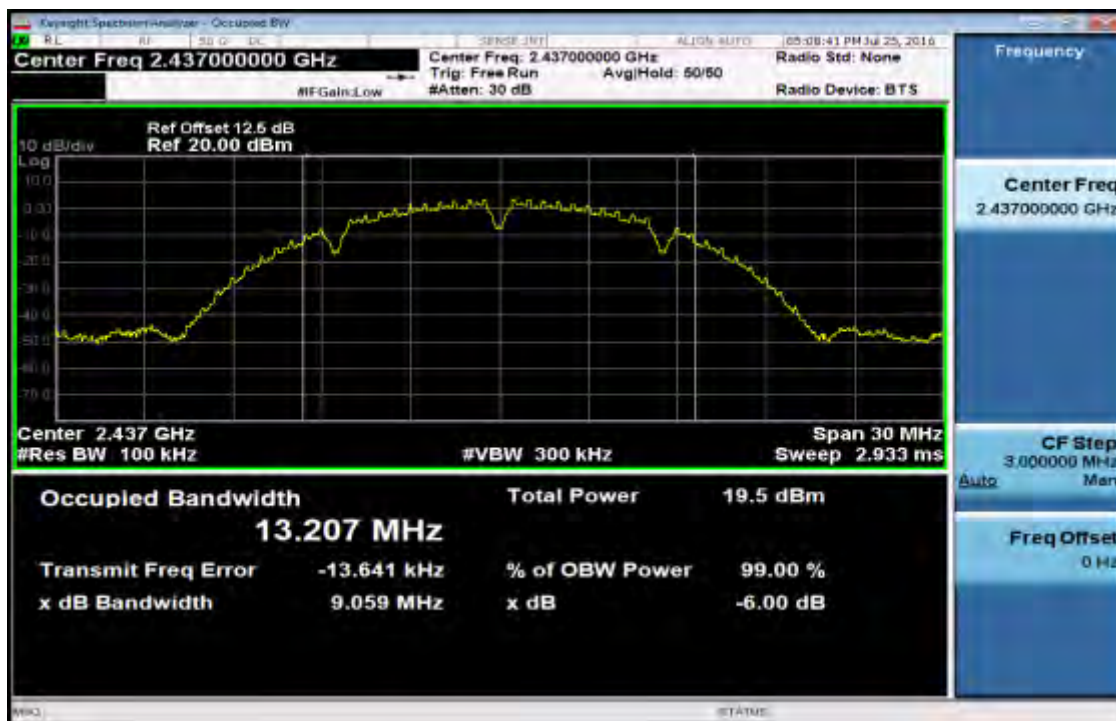
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802.11b (Aux 2)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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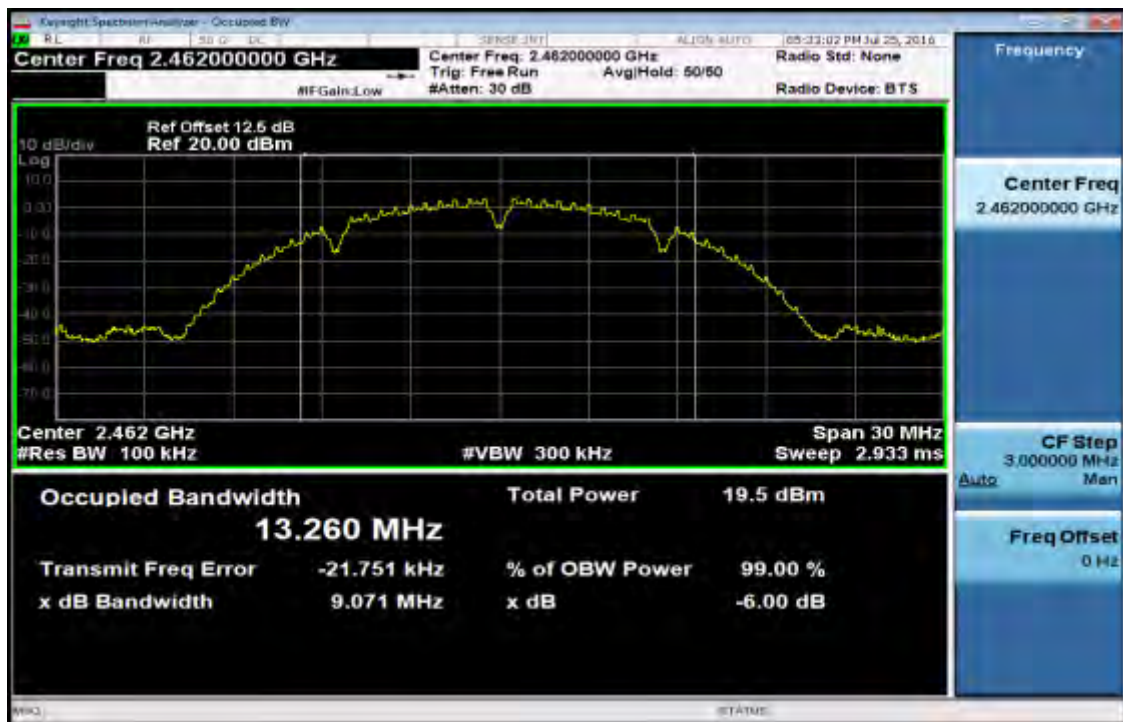
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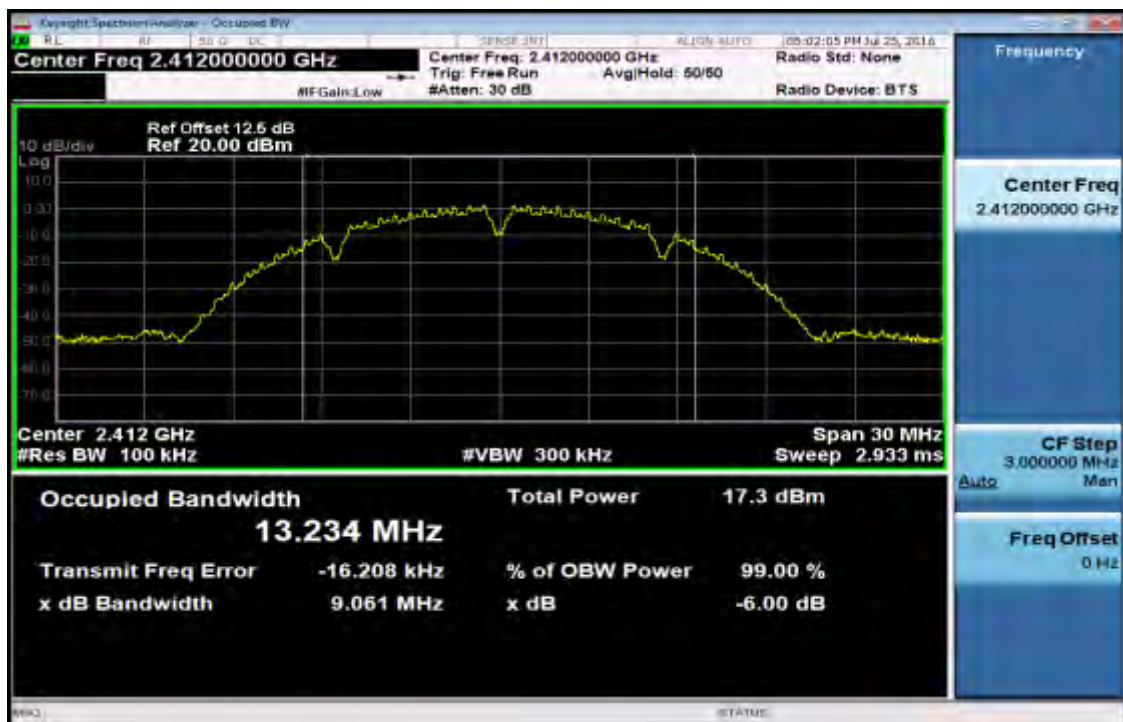
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6dB Band Width Test Data CH-High



802.11b (Aux 3)

6dB Band Width Test Data CH-Low



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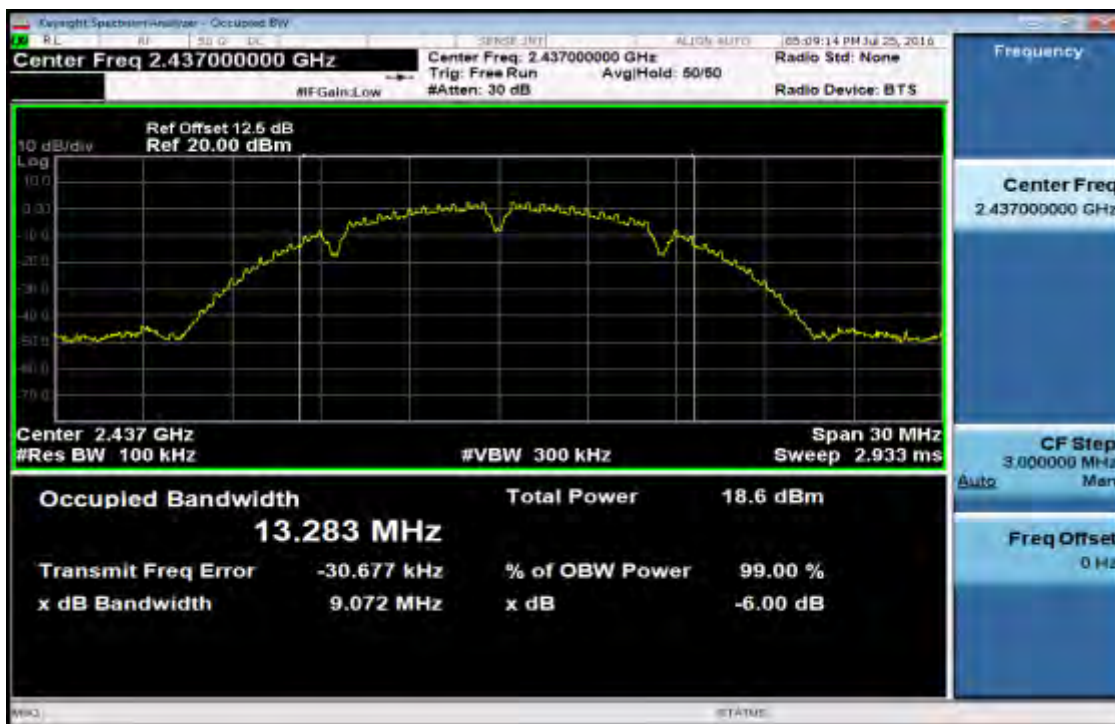
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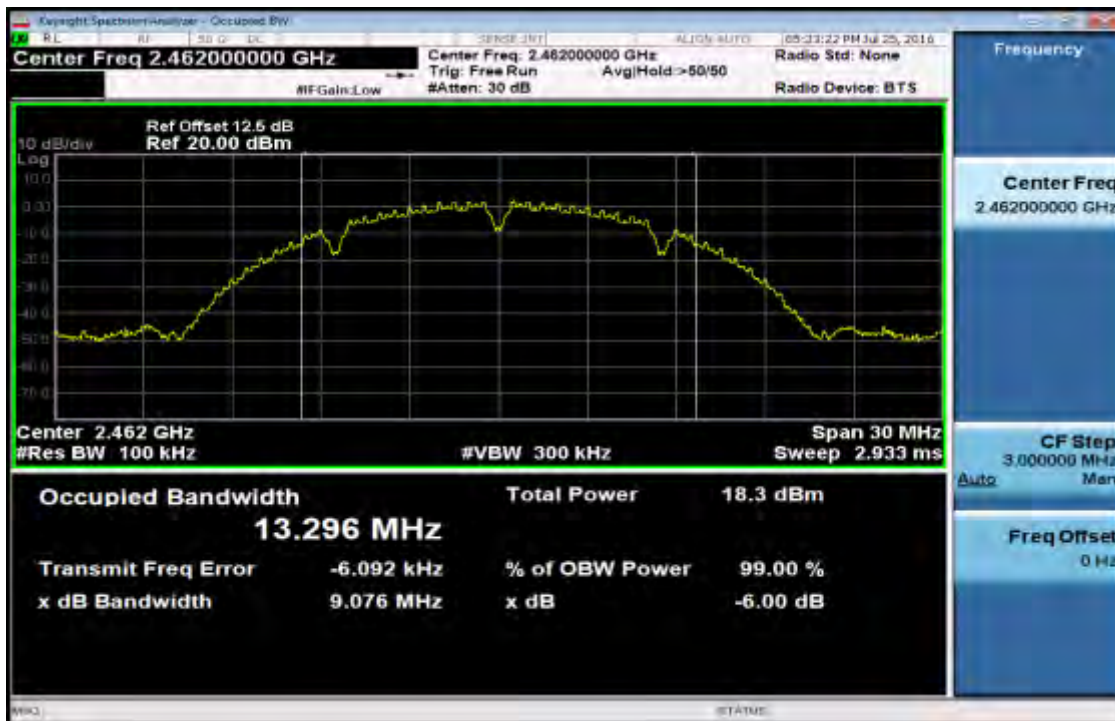
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



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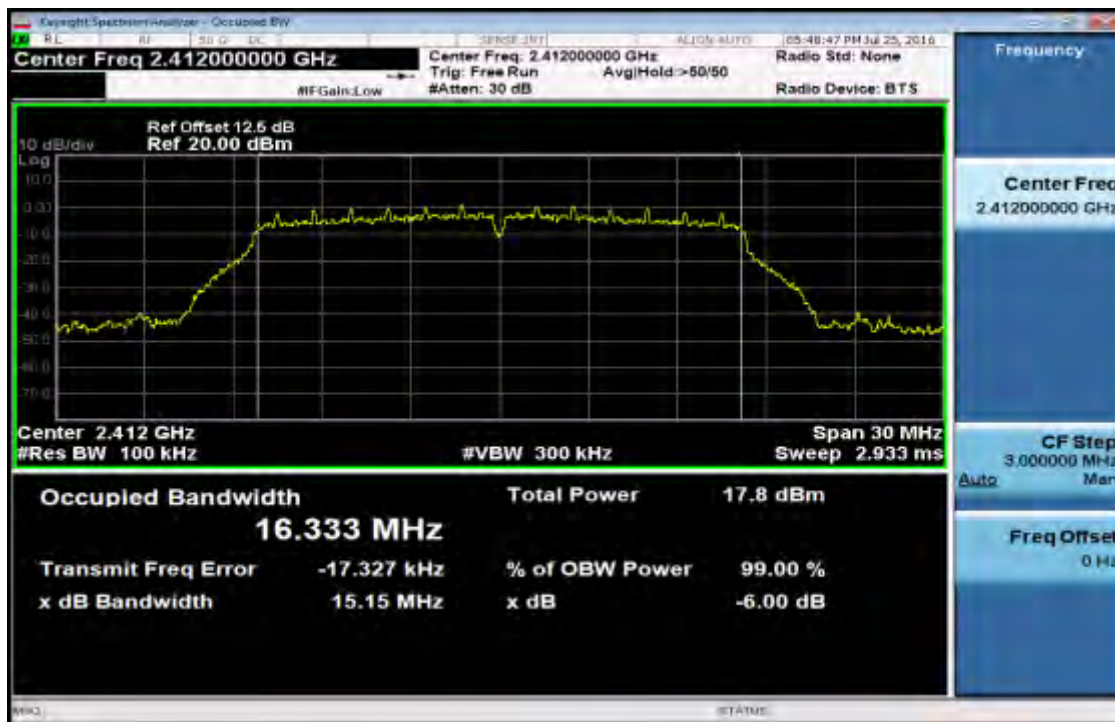
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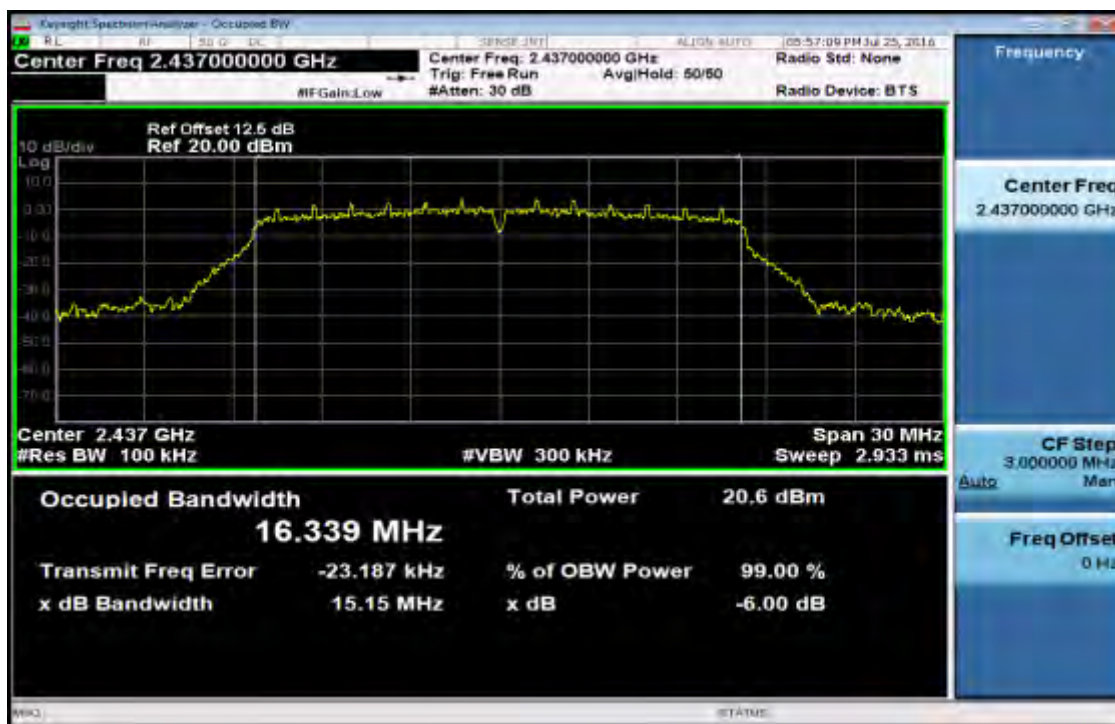
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802.11g (Main) 6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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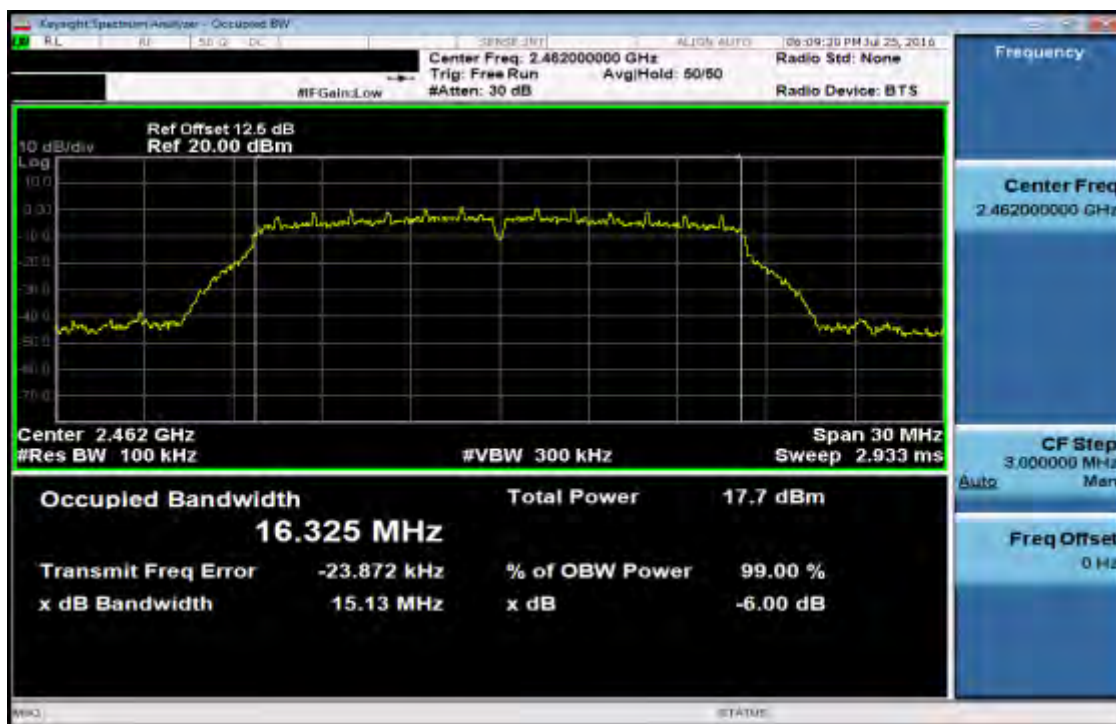
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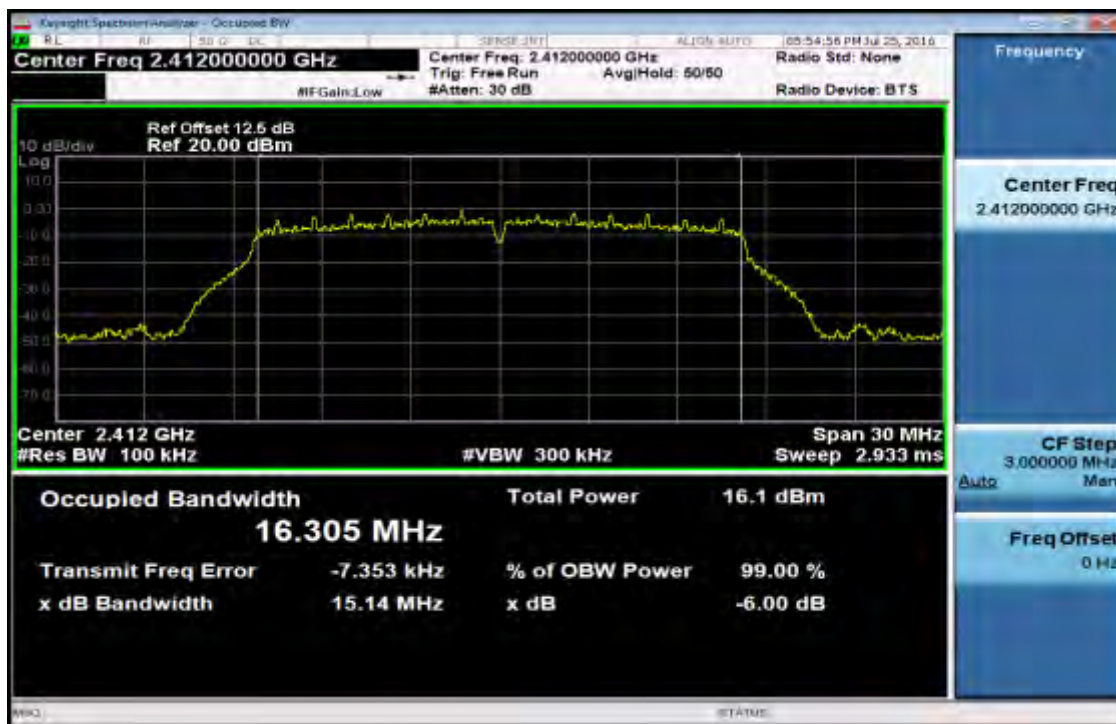
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6dB Band Width Test Data CH-High



802.11g (Aux 1)

6dB Band Width Test Data CH-Low



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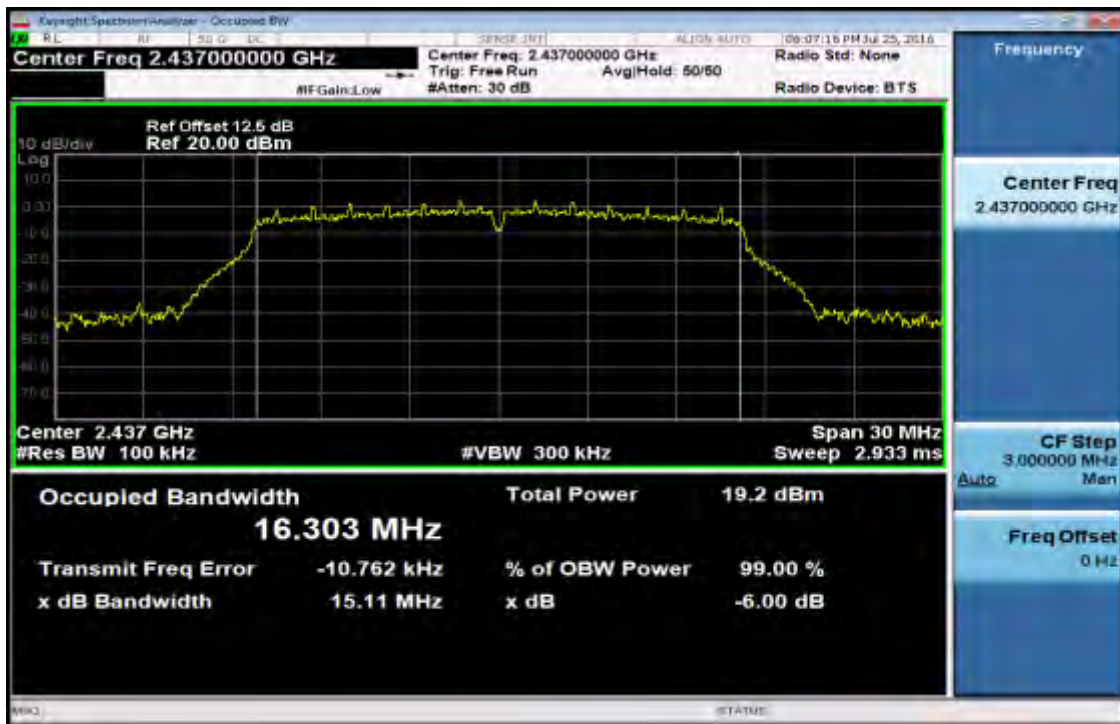
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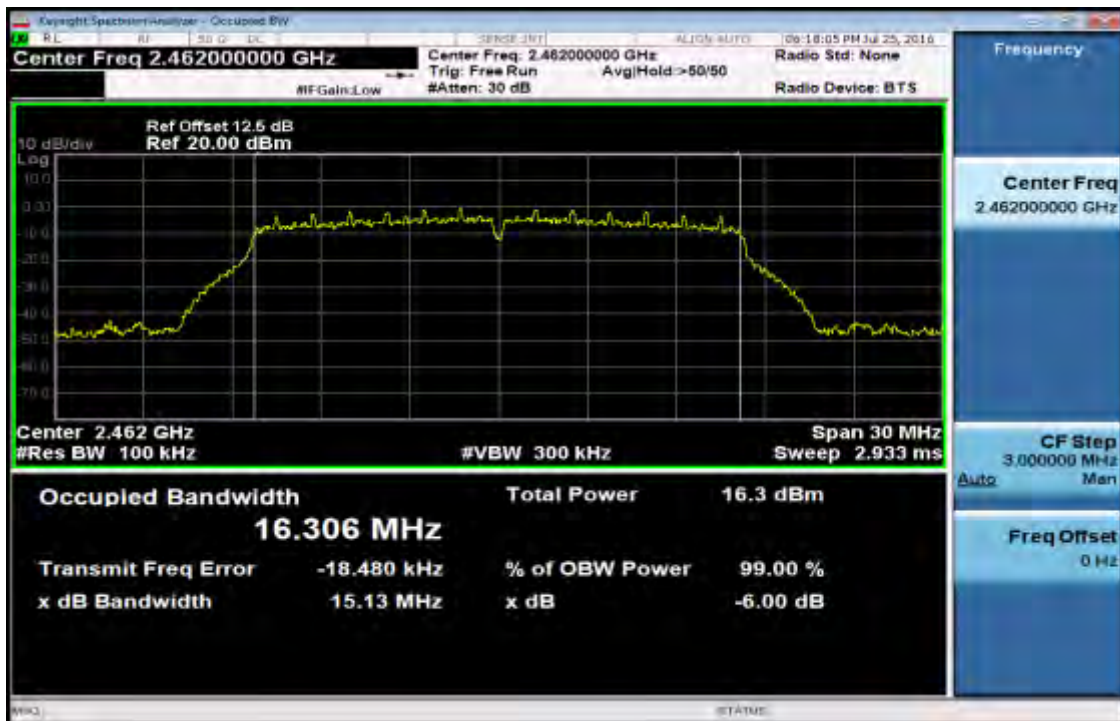
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



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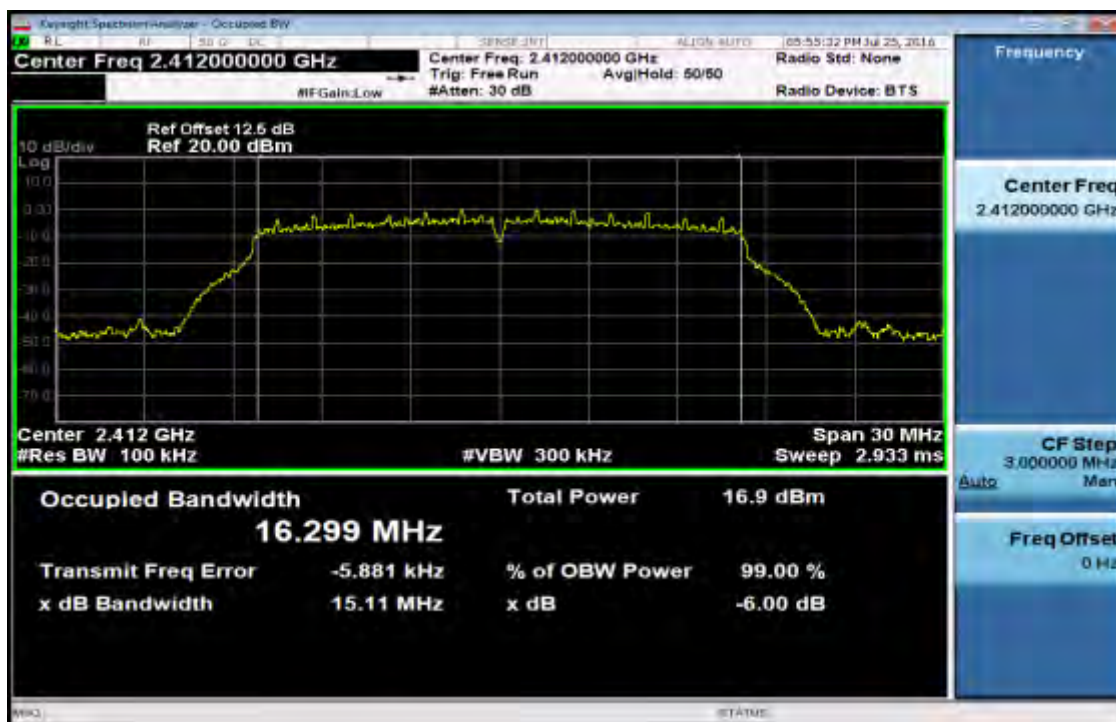
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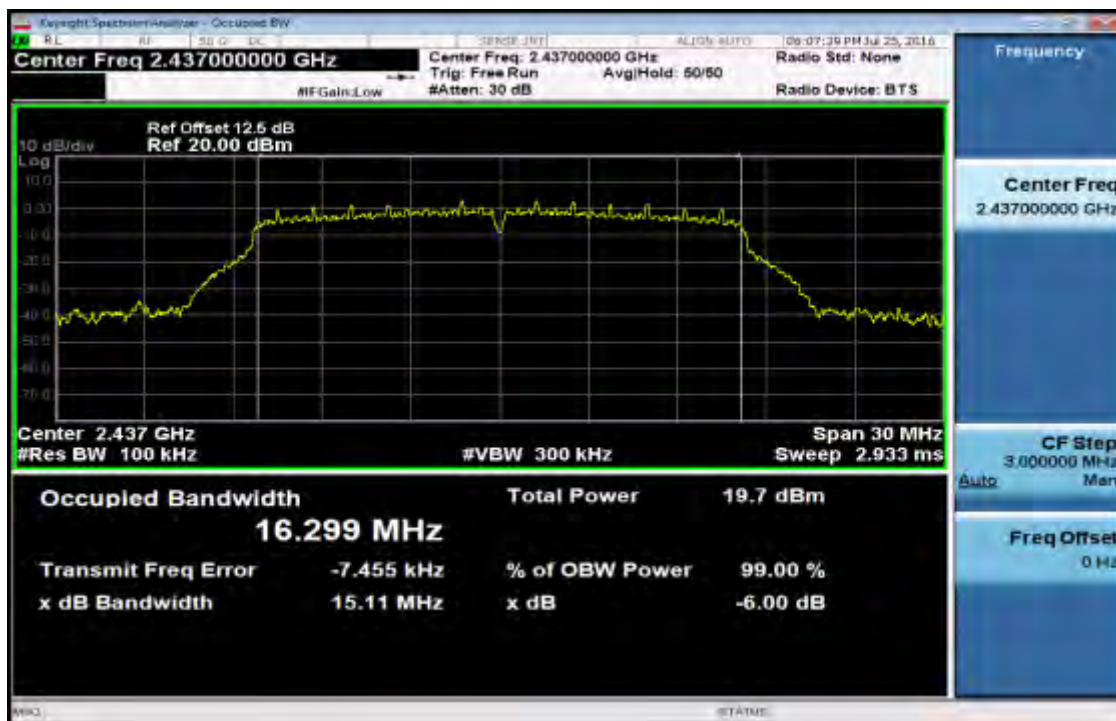
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802.11g (Aux 2)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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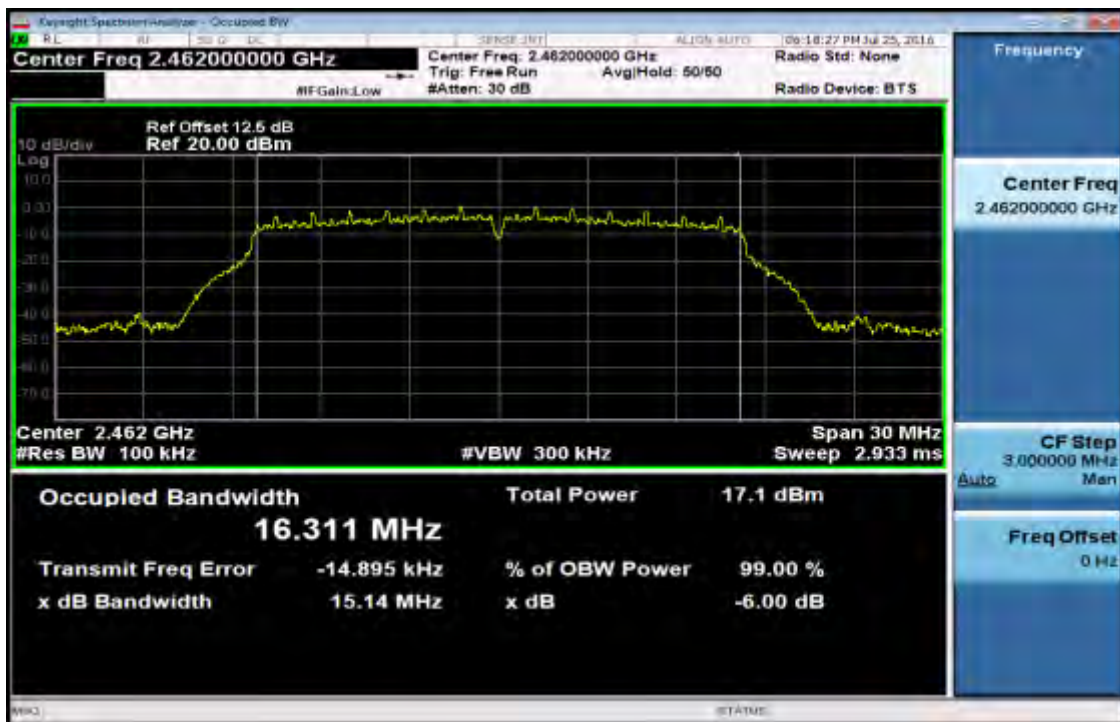
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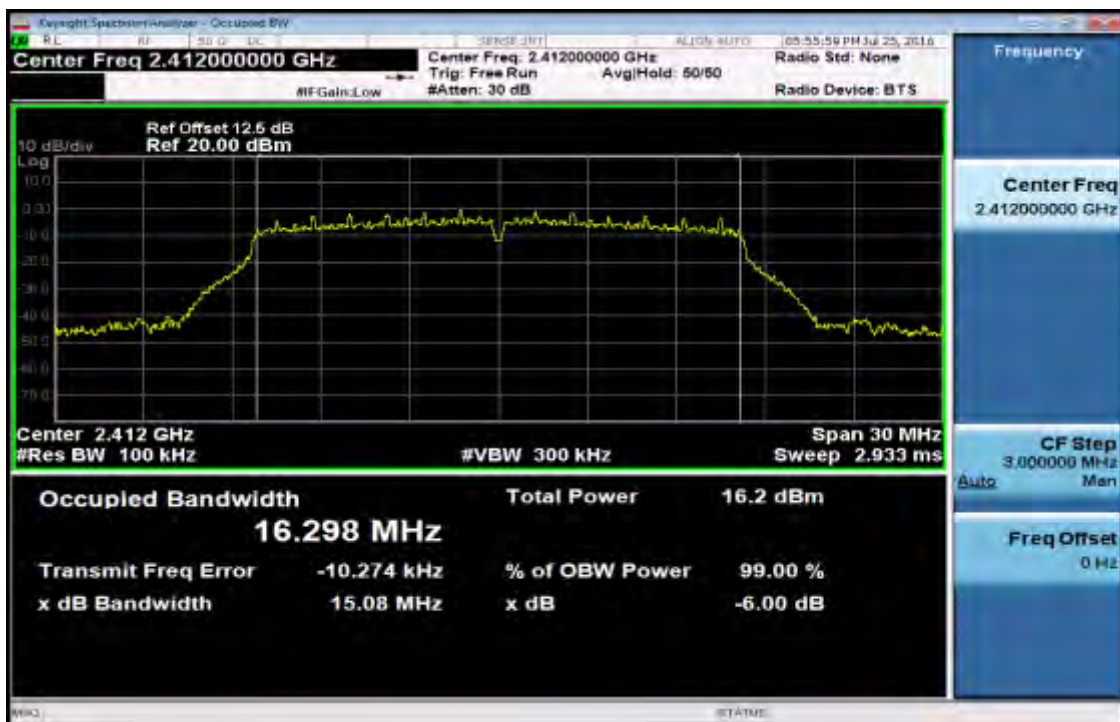
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6dB Band Width Test Data CH-High



802.11g (Aux 3)

6dB Band Width Test Data CH-Low



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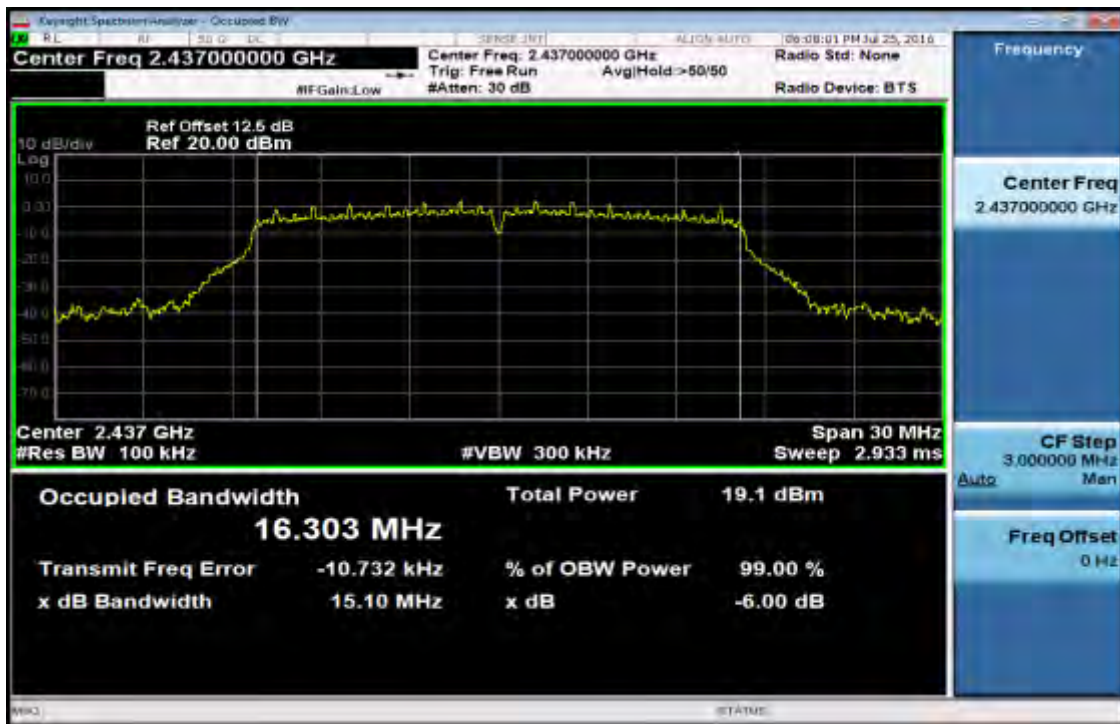
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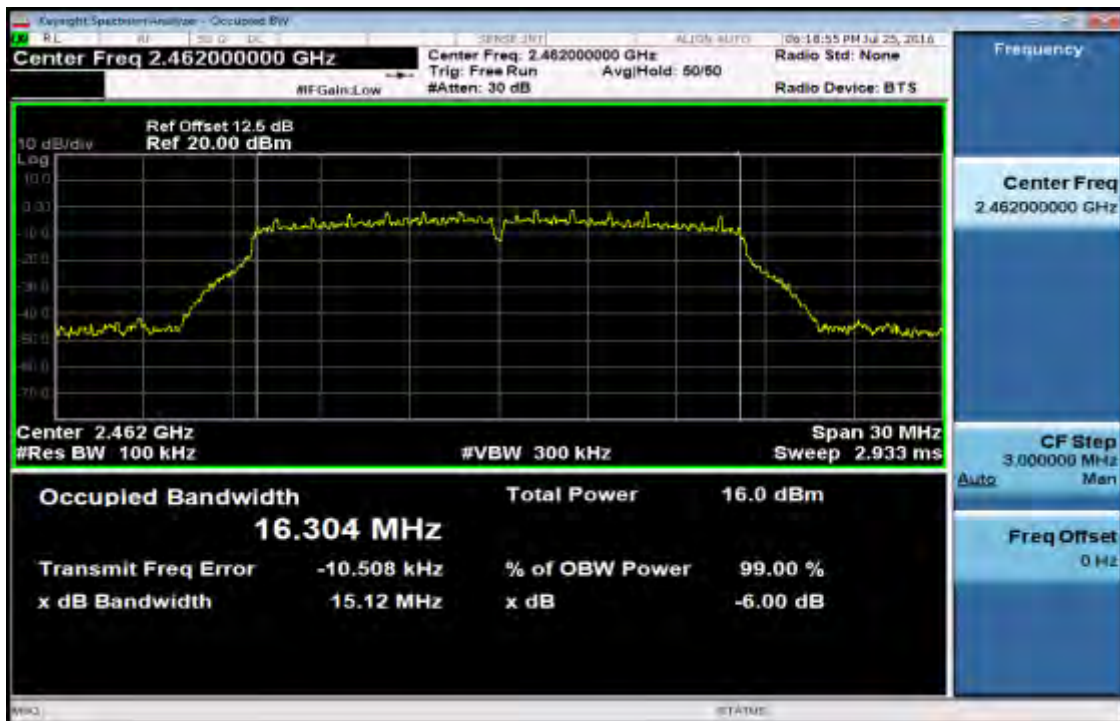
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



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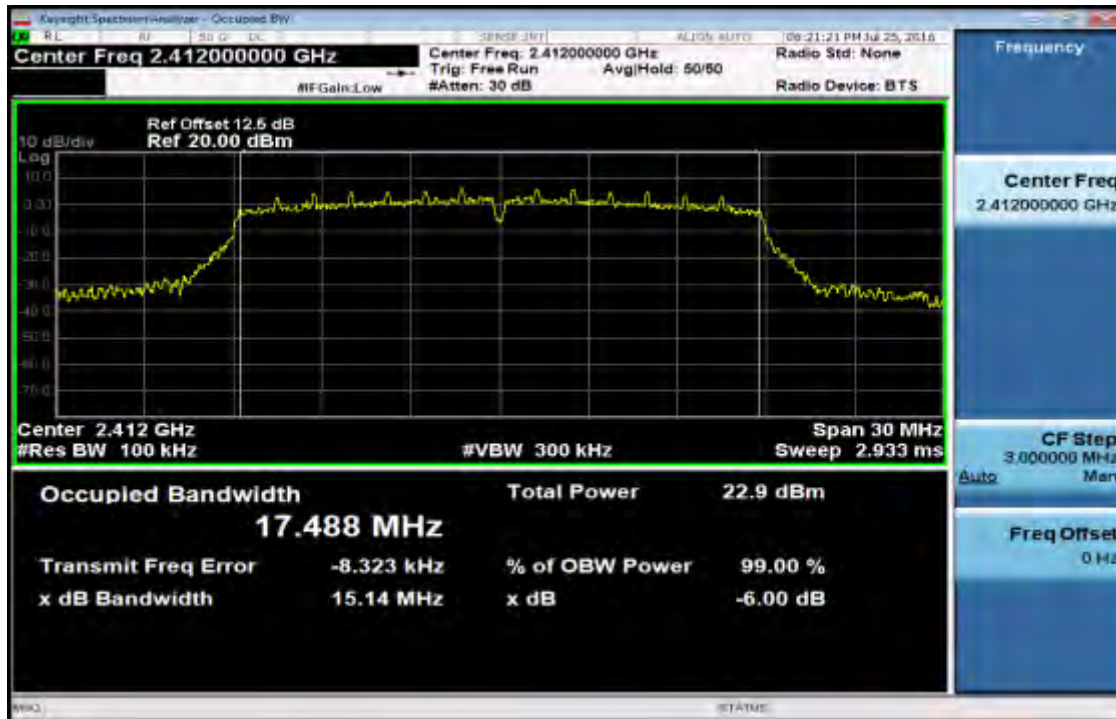
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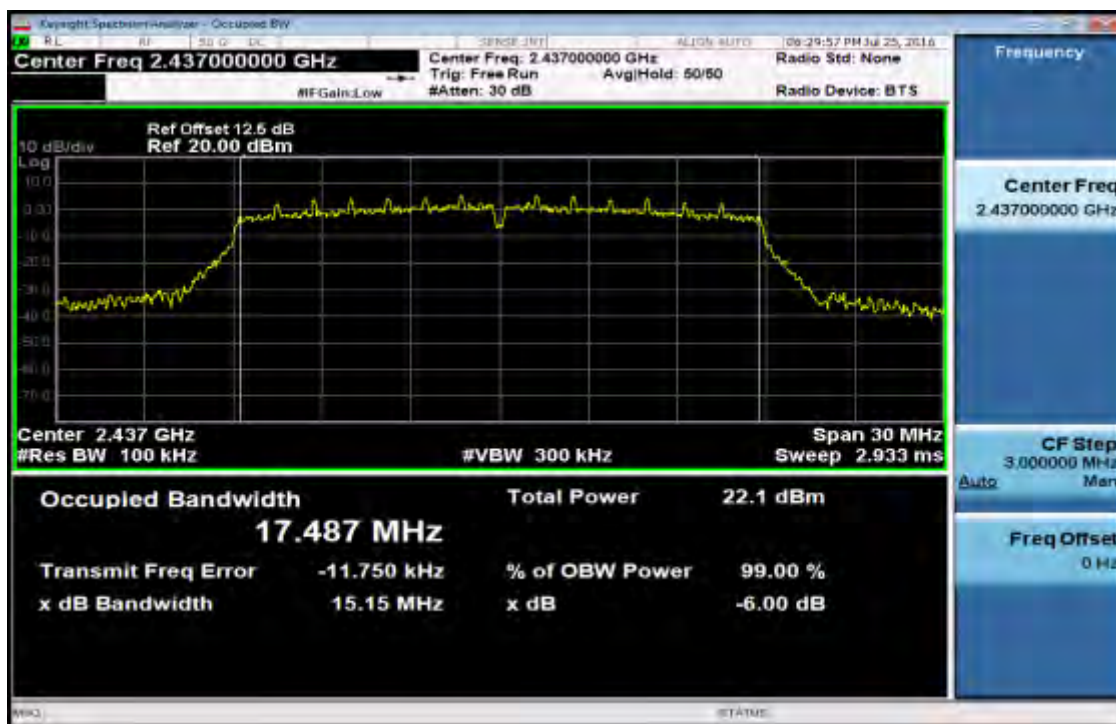
CDD Mode:

802.11n_20M (Main)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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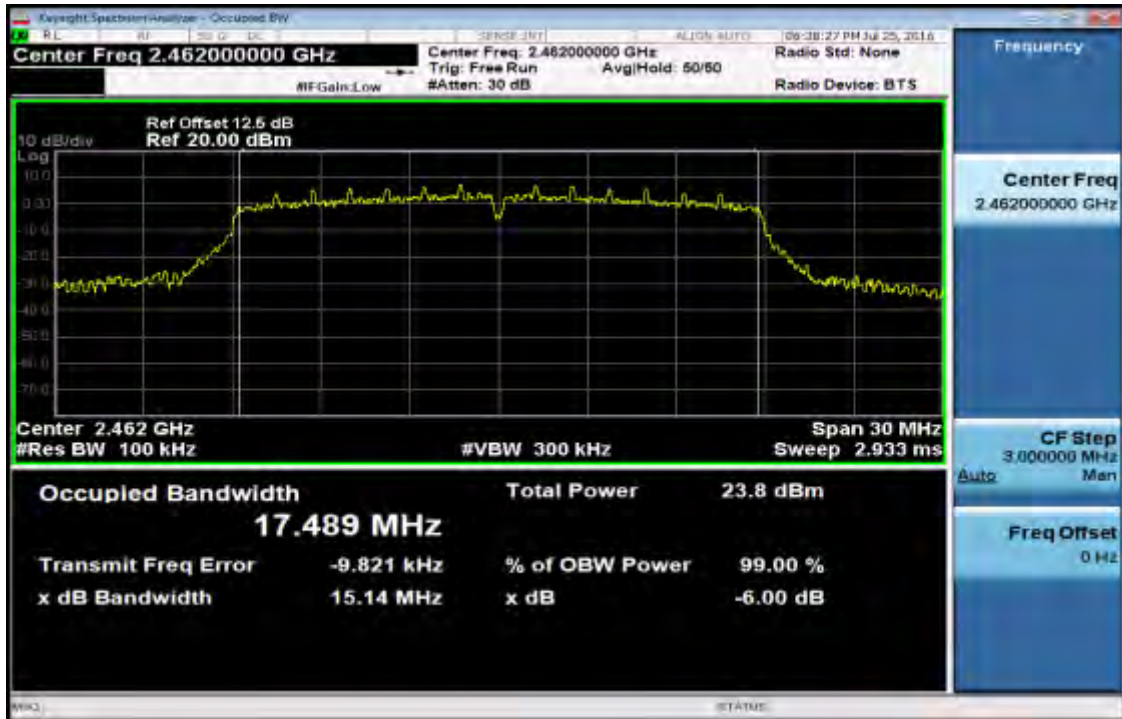
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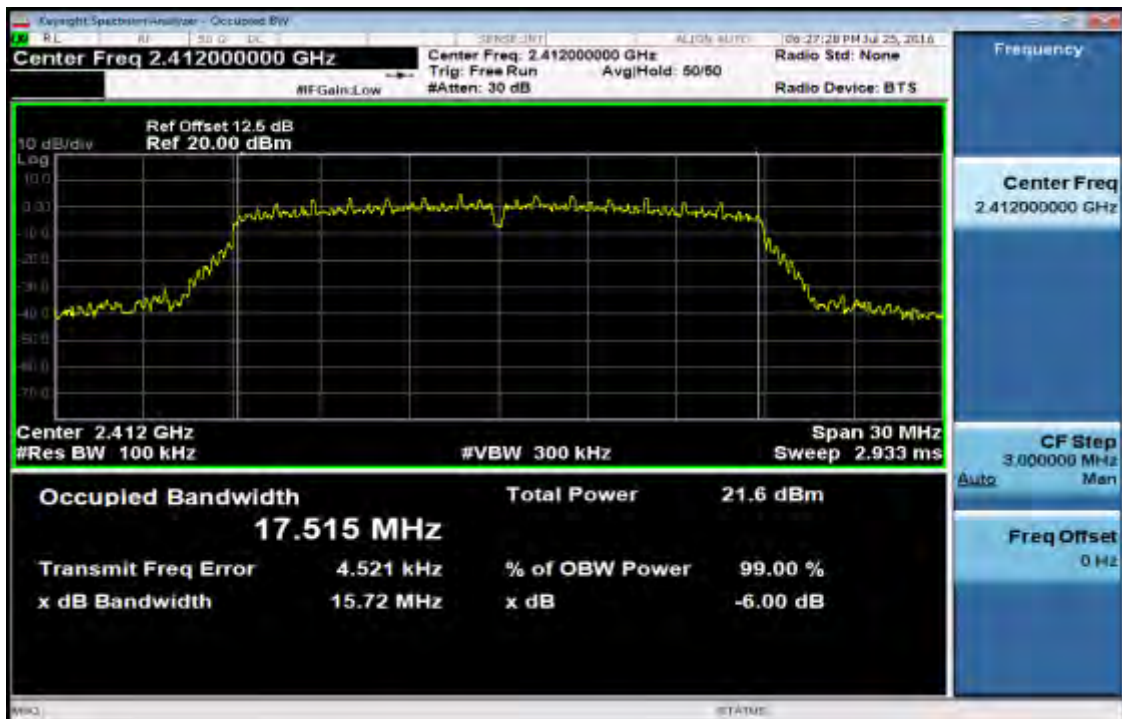
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6dB Band Width Test Data CH-High



802.11n_20M (AUX1)

6dB Band Width Test Data CH-Low



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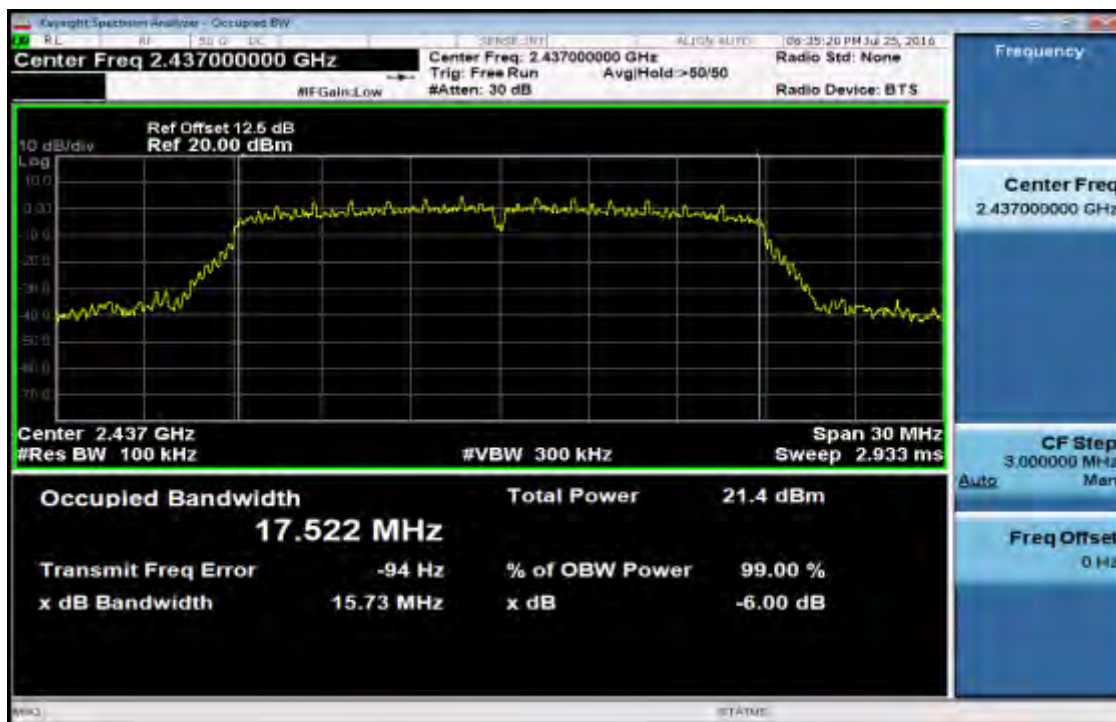
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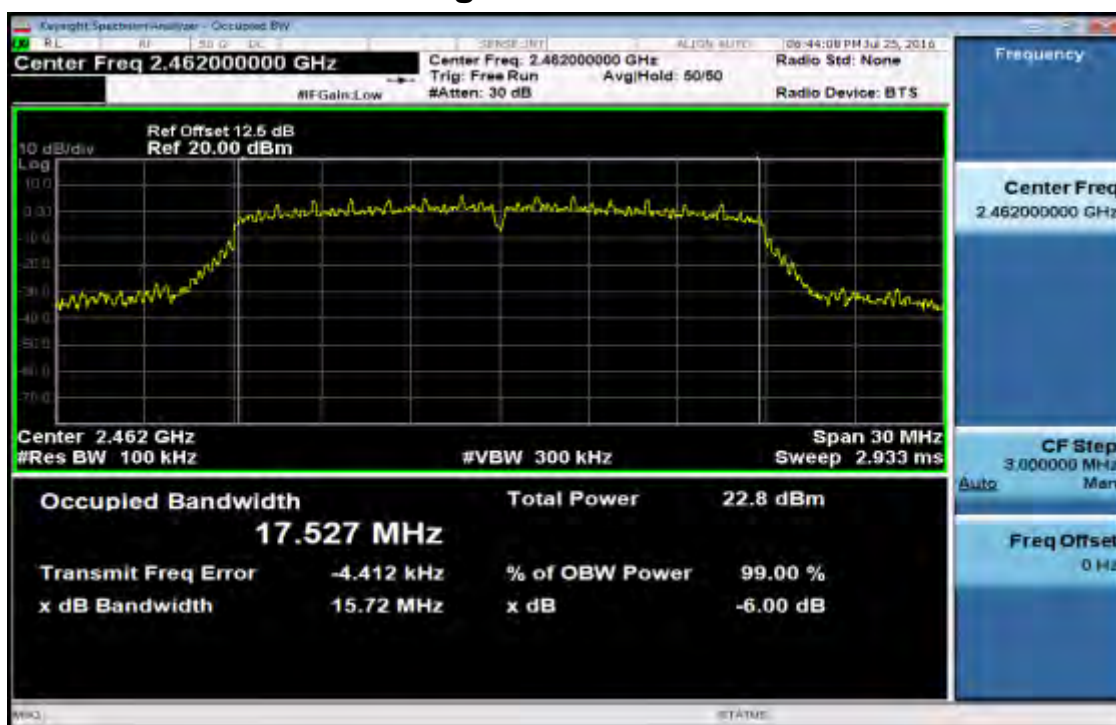
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



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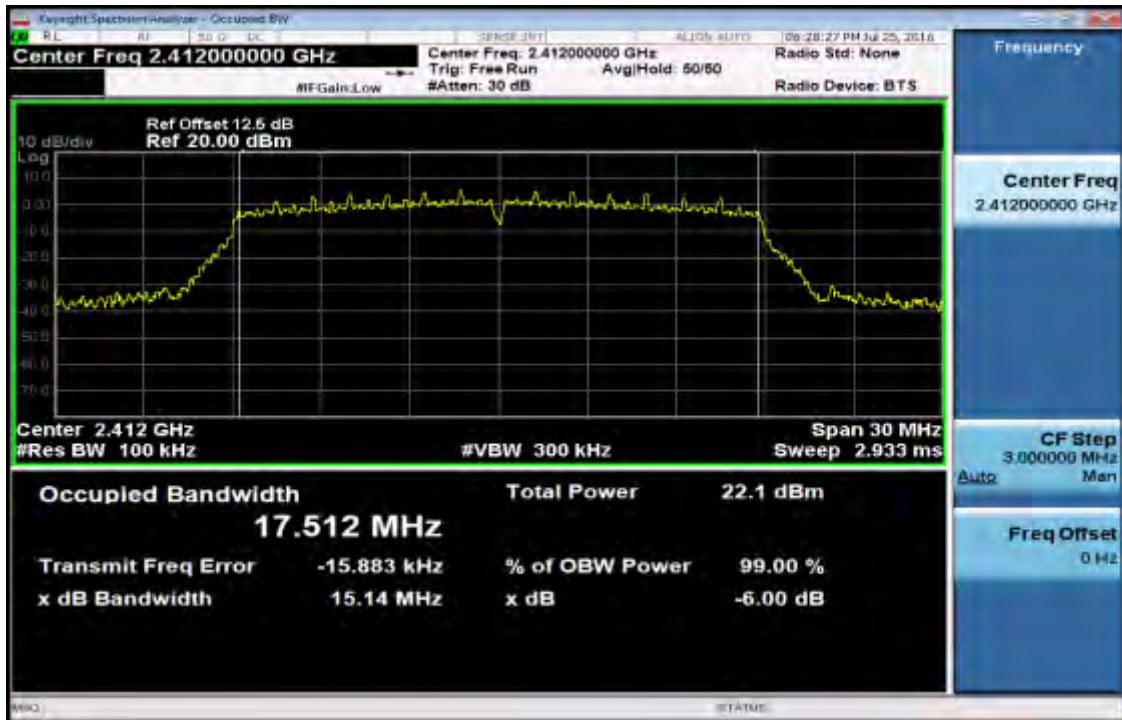
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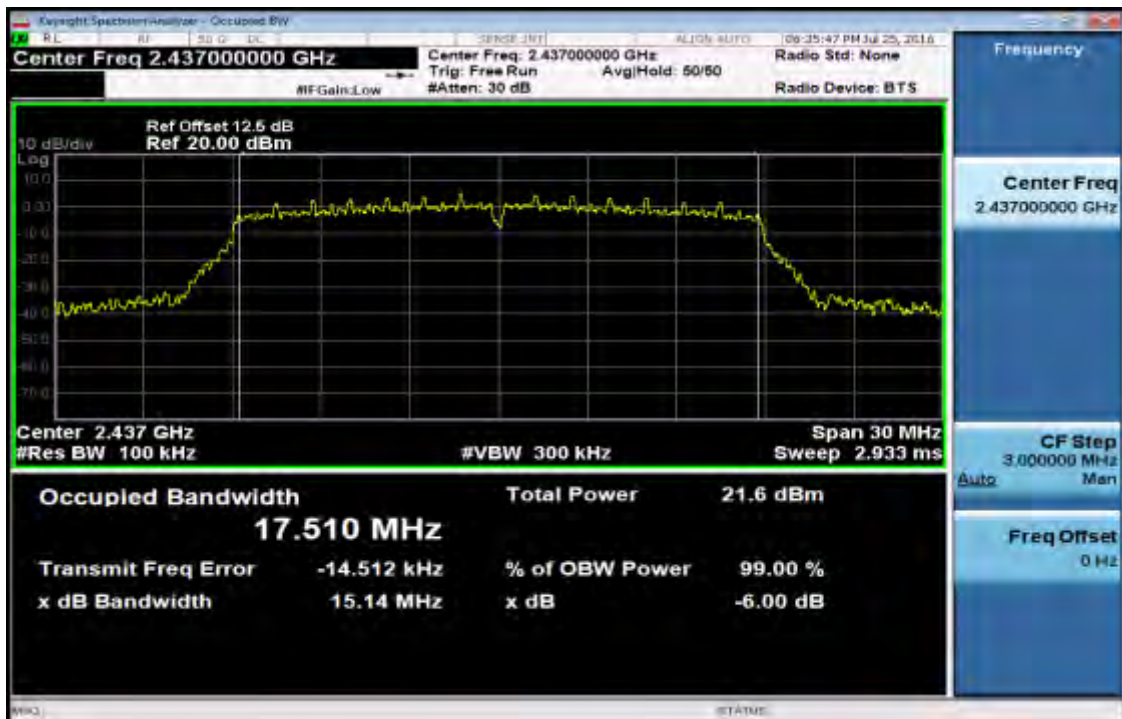
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802.11n_20M (AUX2)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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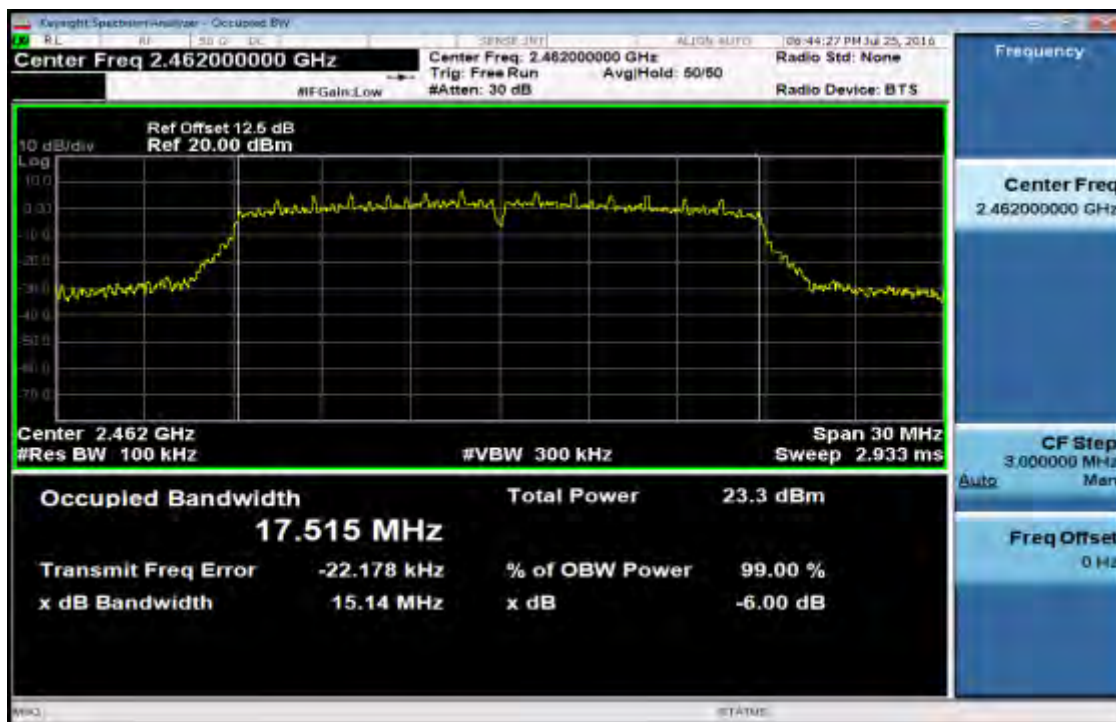
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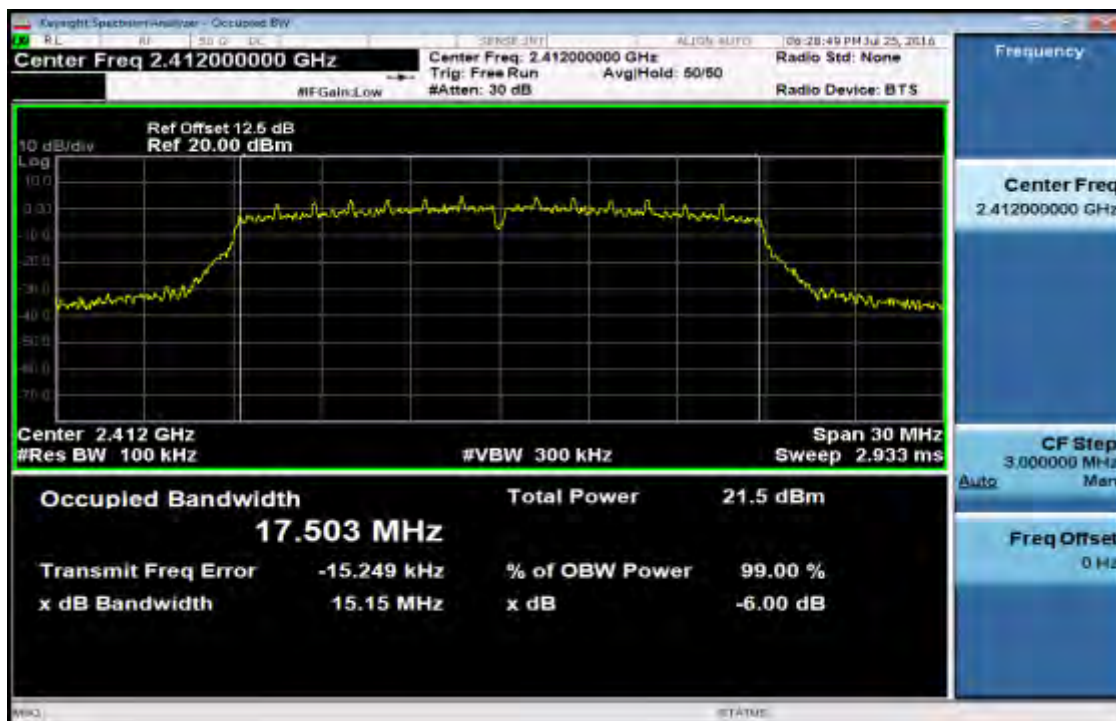
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6dB Band Width Test Data CH-High



802.11n_20M (AUX3)

6dB Band Width Test Data CH-Low



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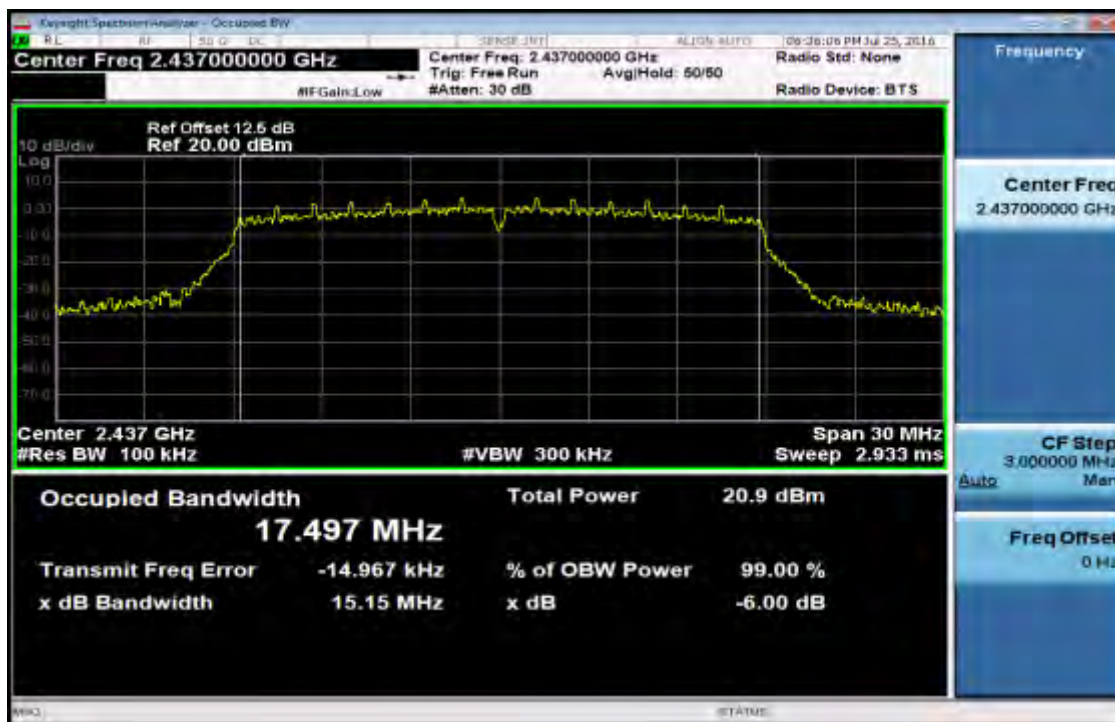
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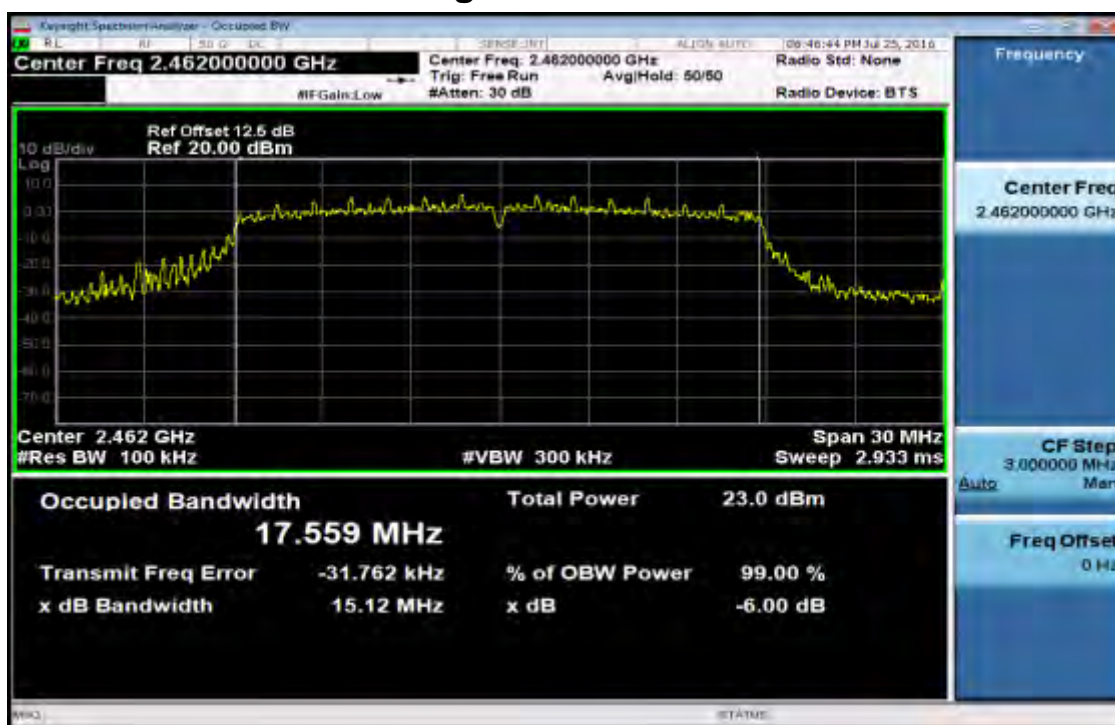
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



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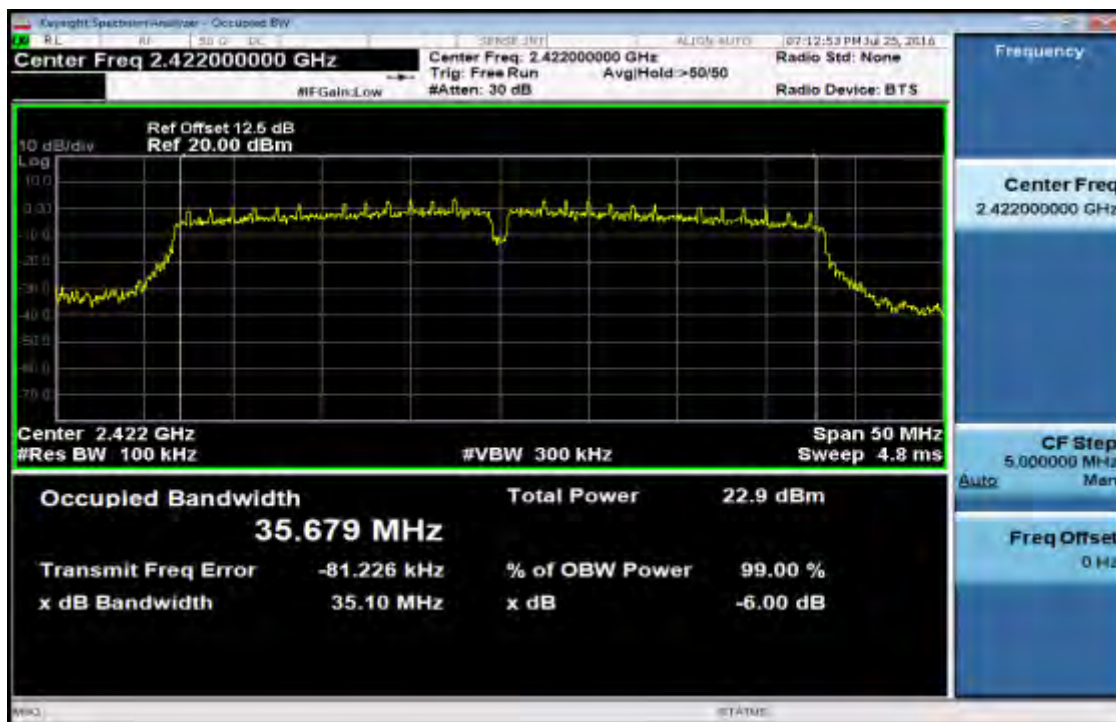
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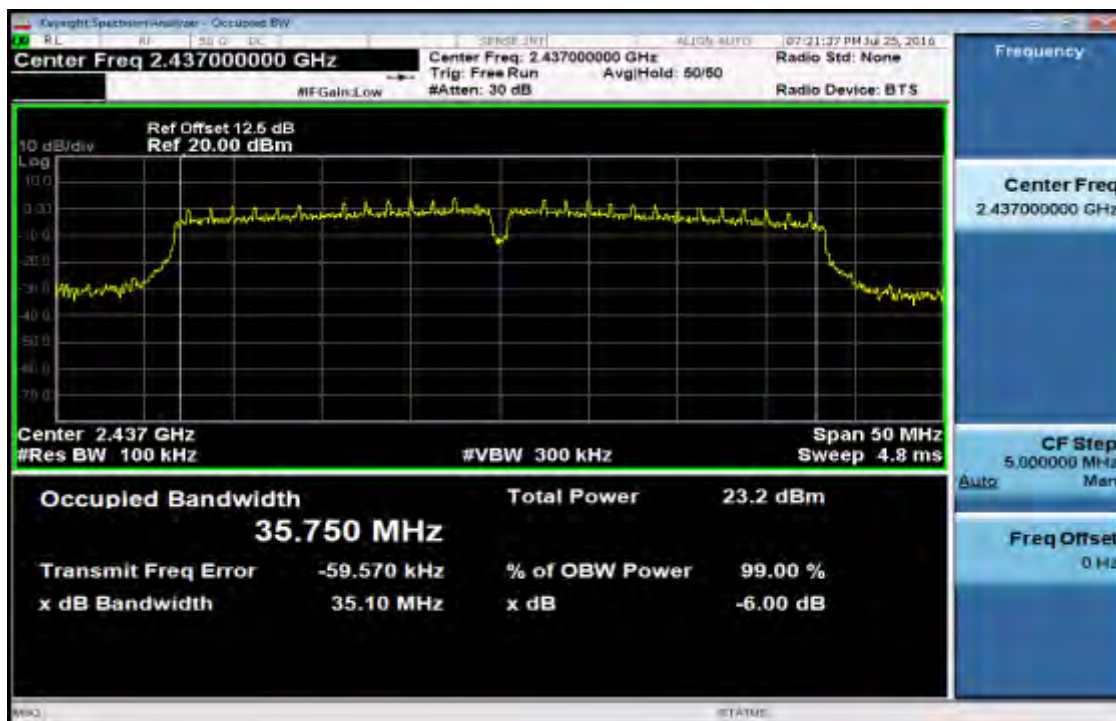
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802.11n_40M (Main)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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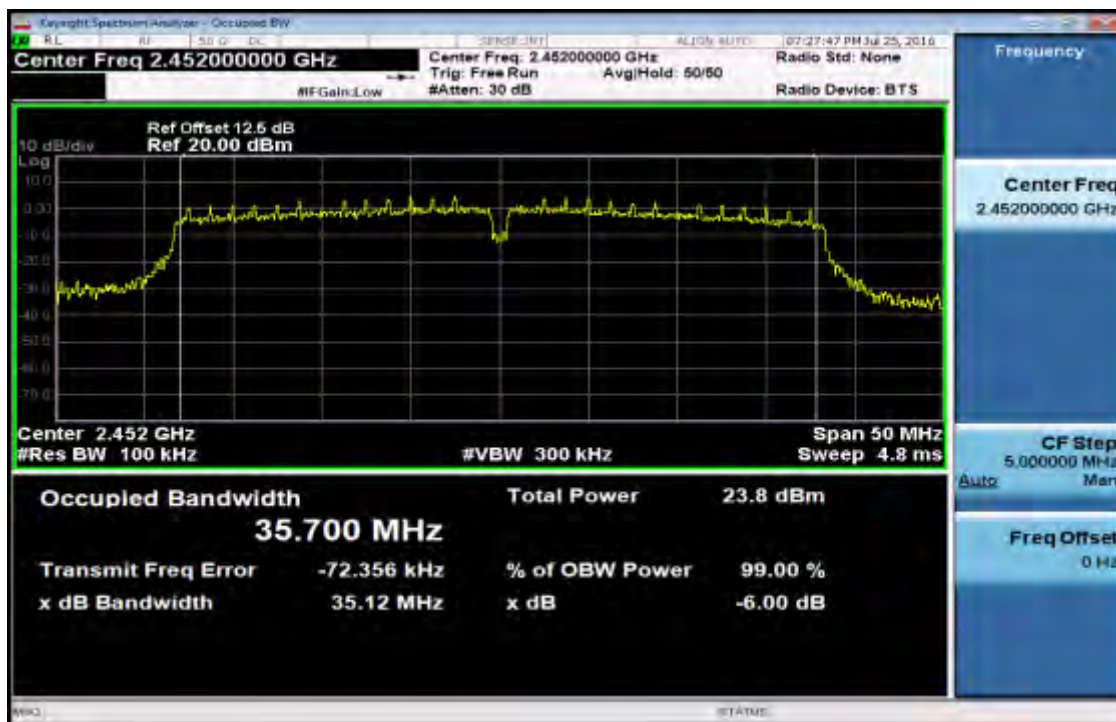
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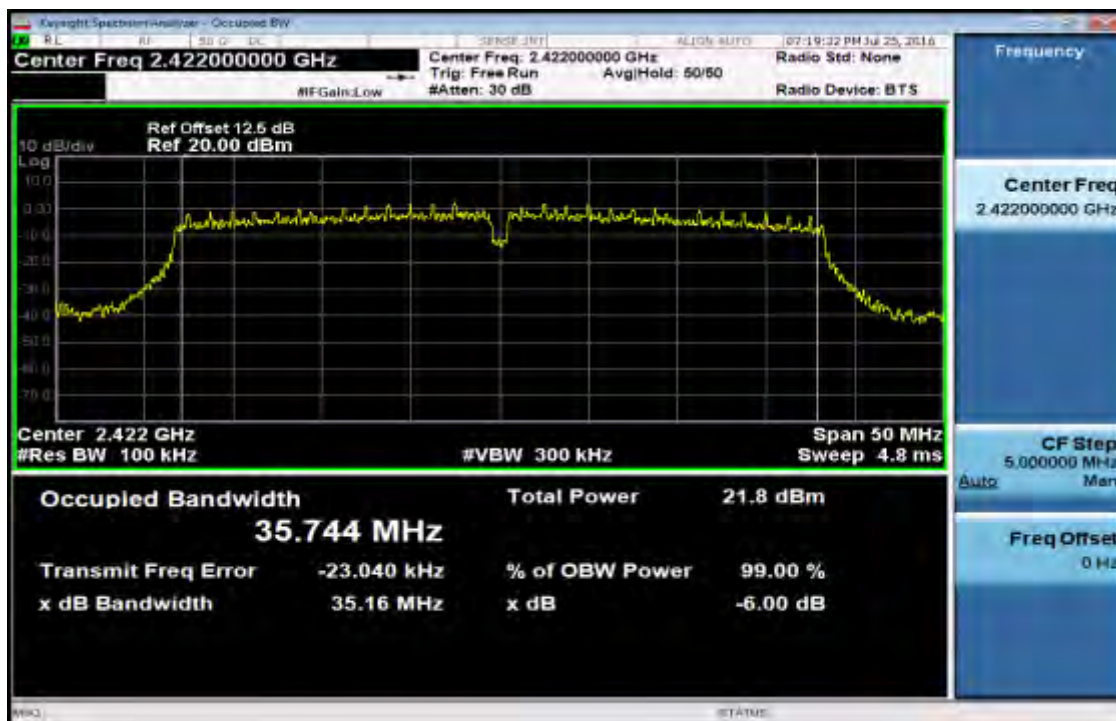
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6dB Band Width Test Data CH-High



802.11n_40M (AUX1)

6dB Band Width Test Data CH-Low



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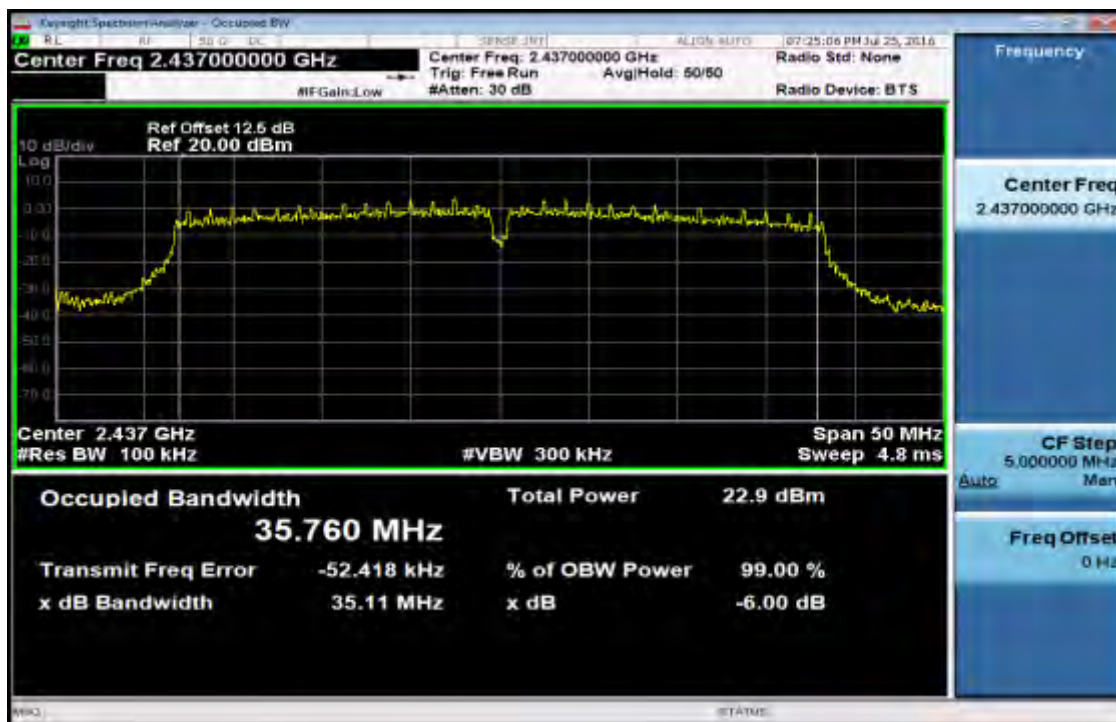
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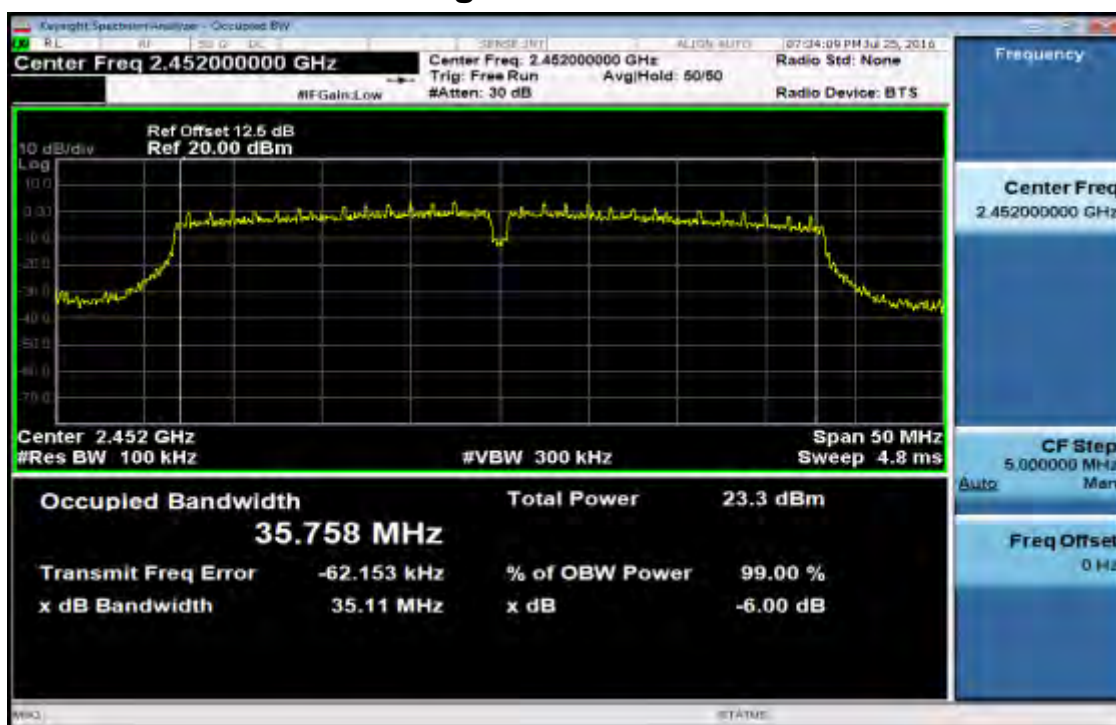
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



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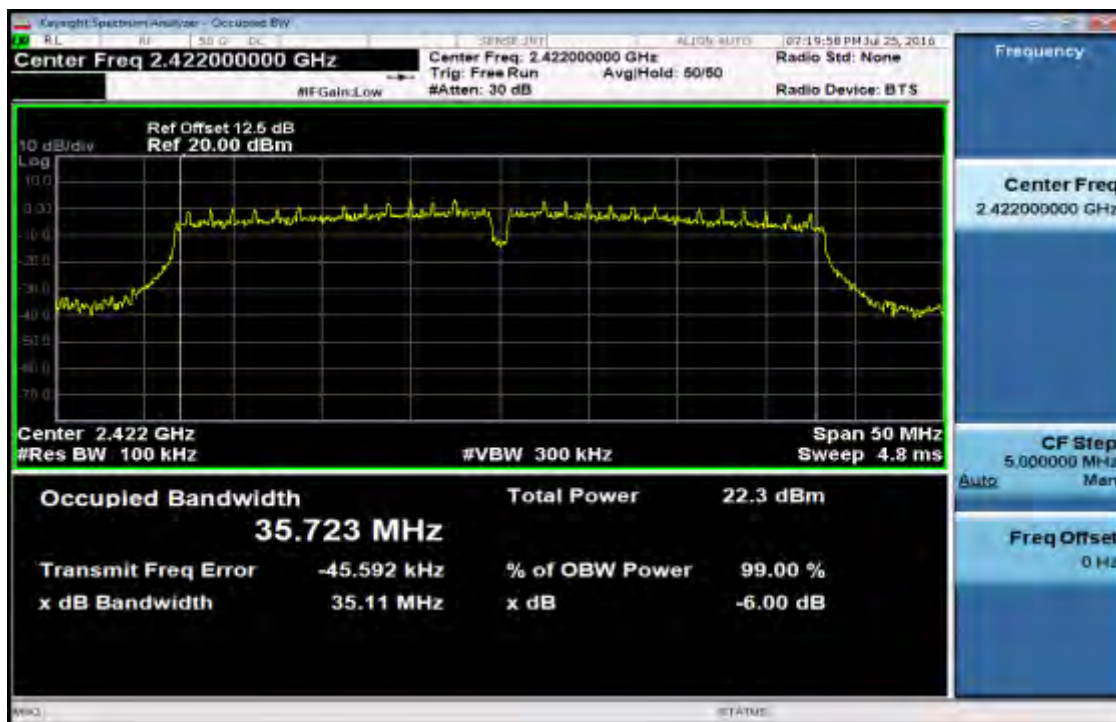
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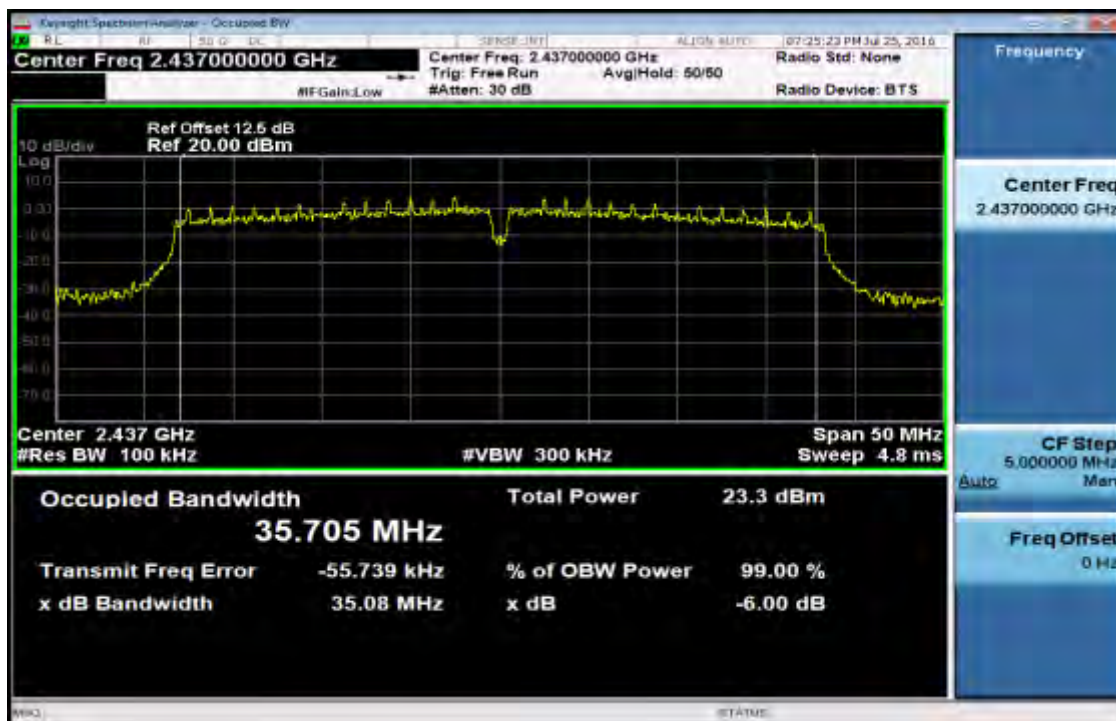
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802.11n_40M (AUX2)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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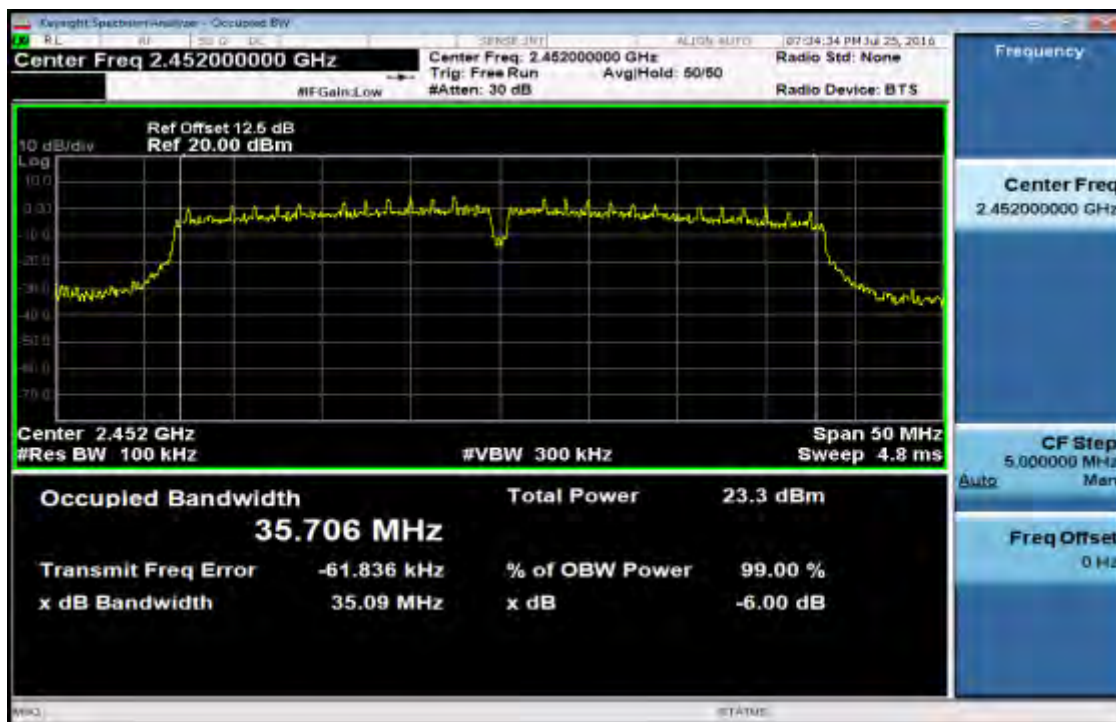
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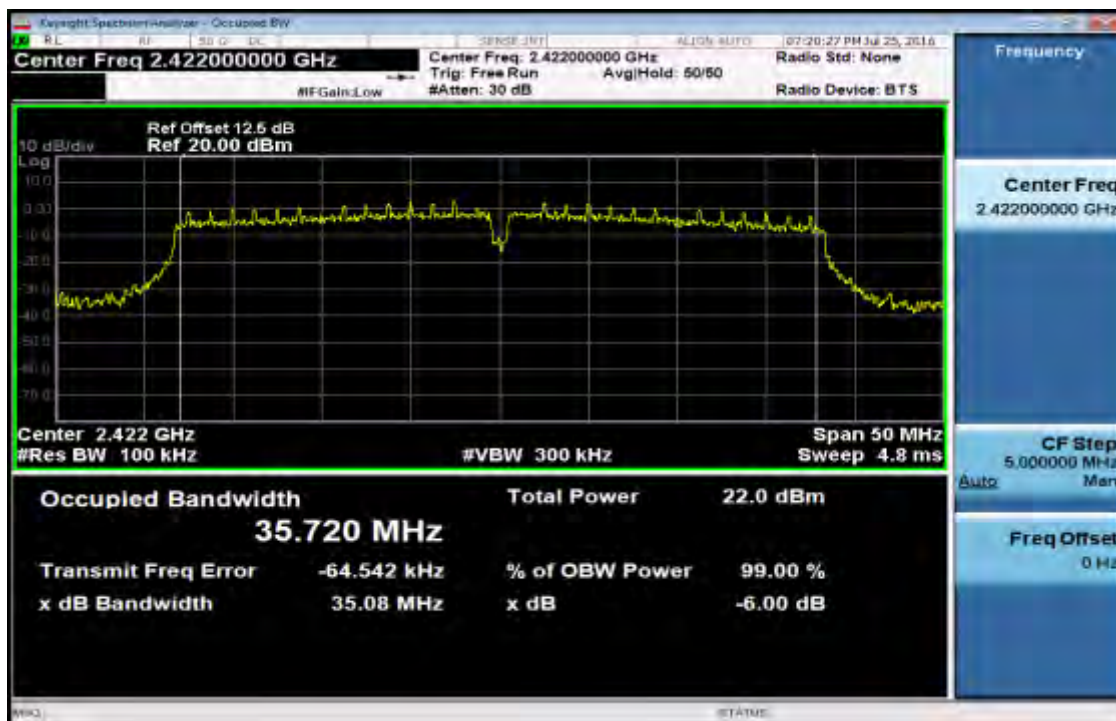
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6dB Band Width Test Data CH-High



802.11n_40M (AUX3)

6dB Band Width Test Data CH-Low



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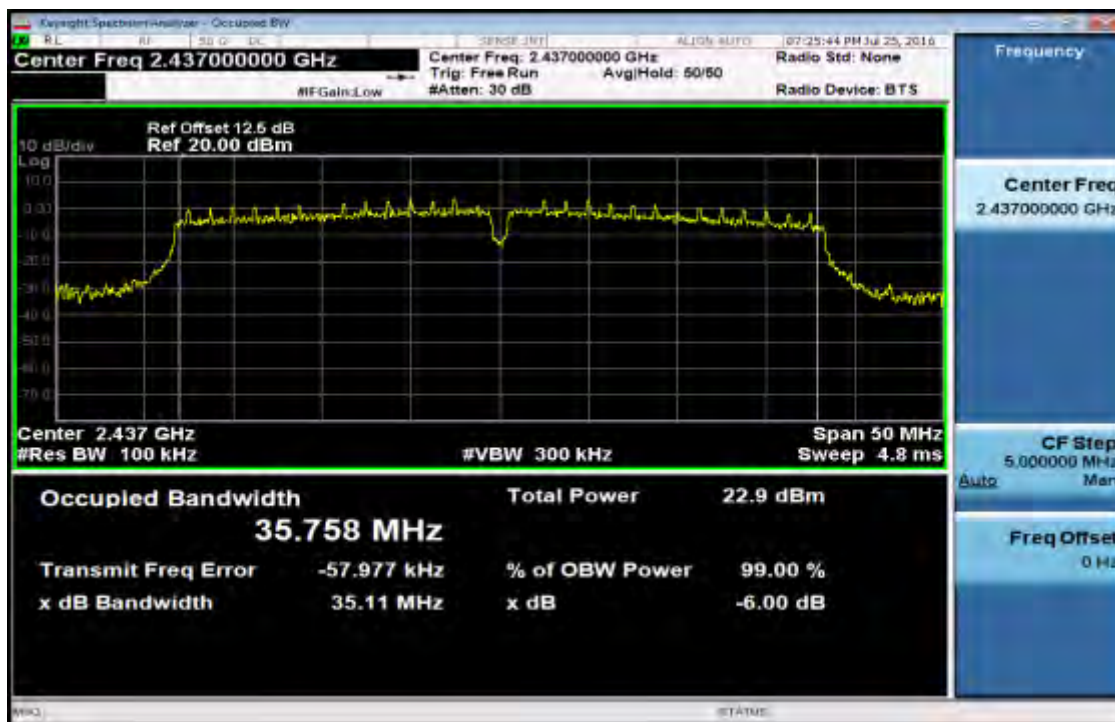
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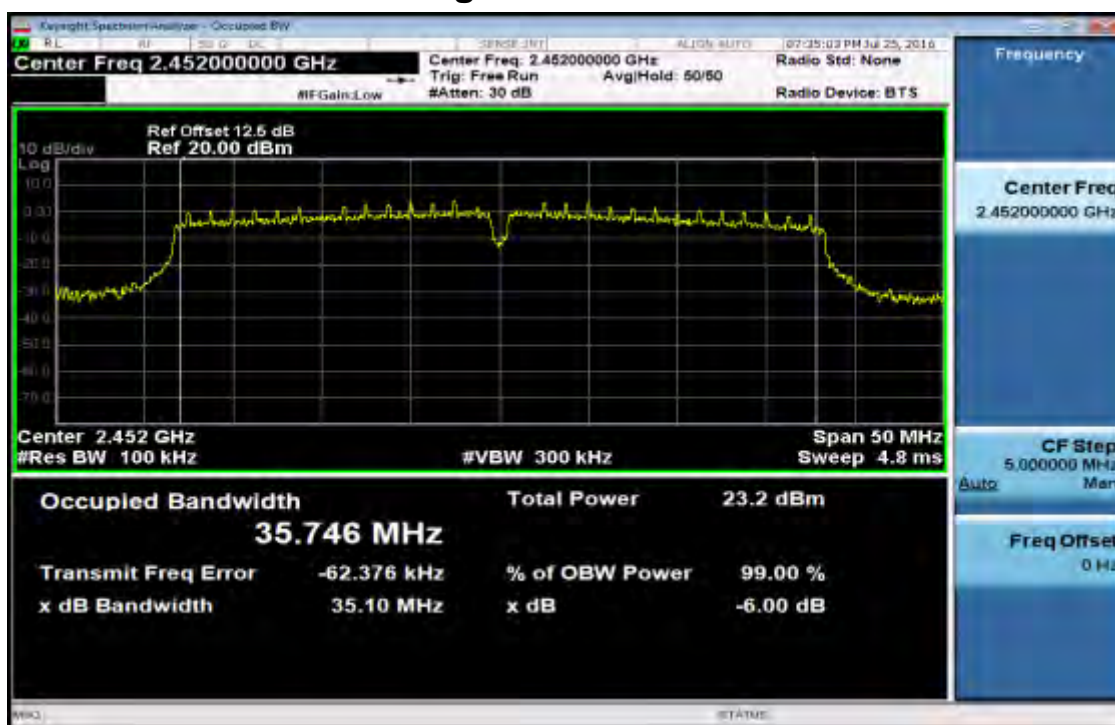
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



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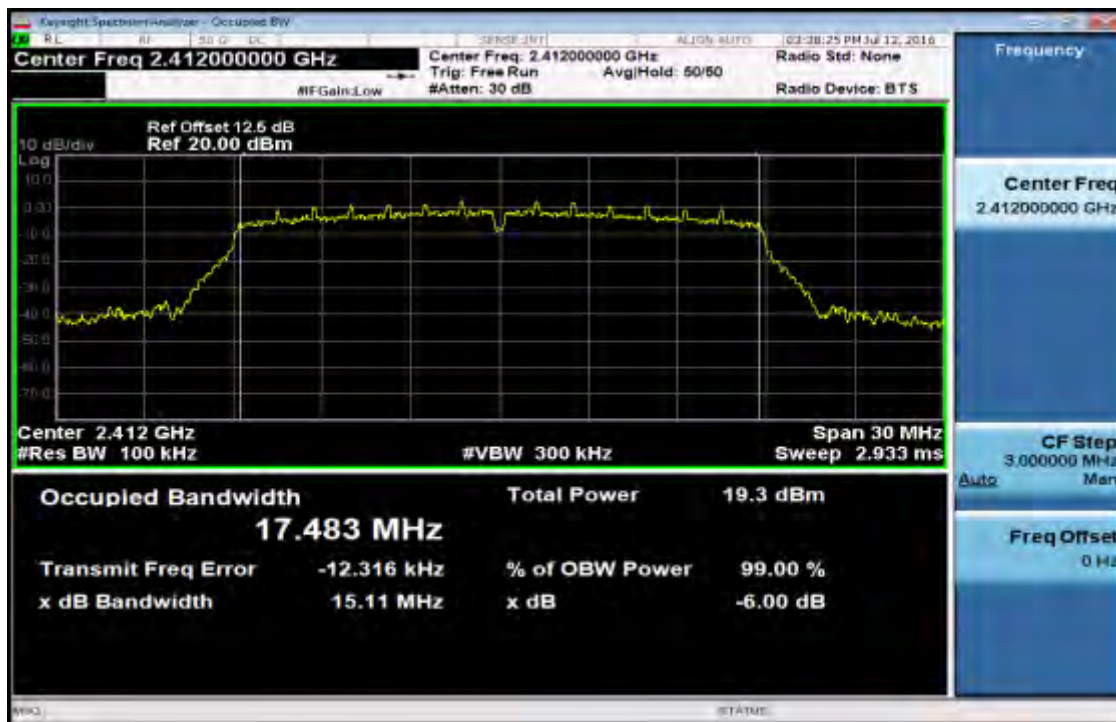
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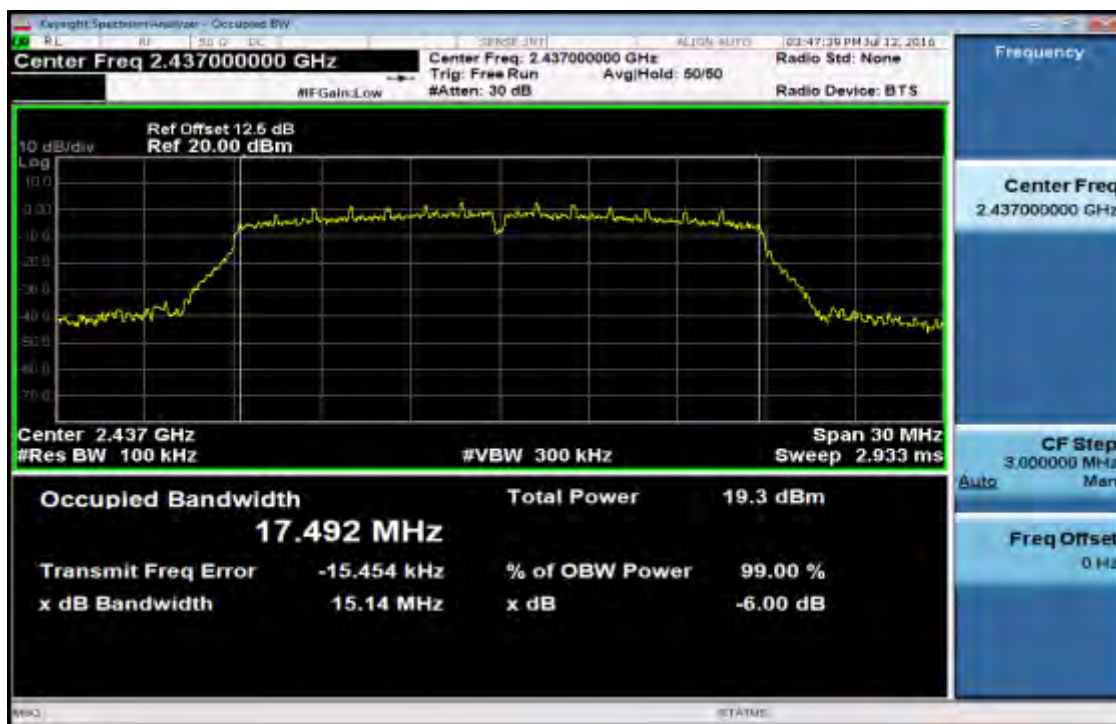
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Beam Forming Mode:
802.11n_20M (Main)
6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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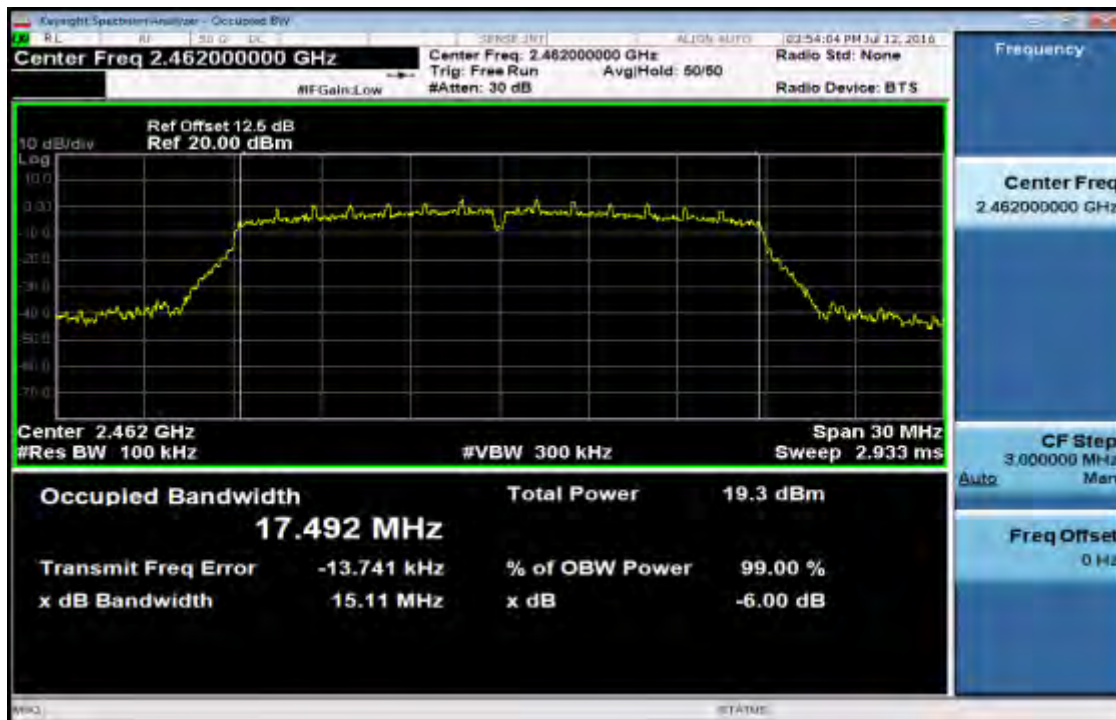
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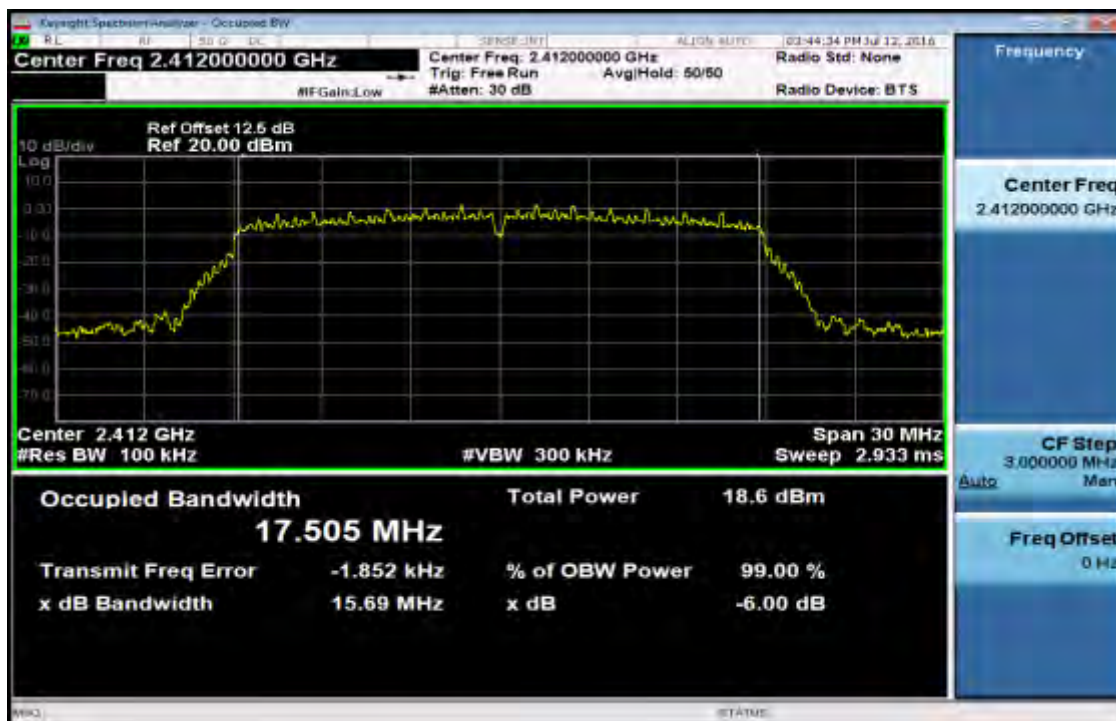
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6dB Band Width Test Data CH-High



802.11n_20M (AUX1)

6dB Band Width Test Data CH-Low



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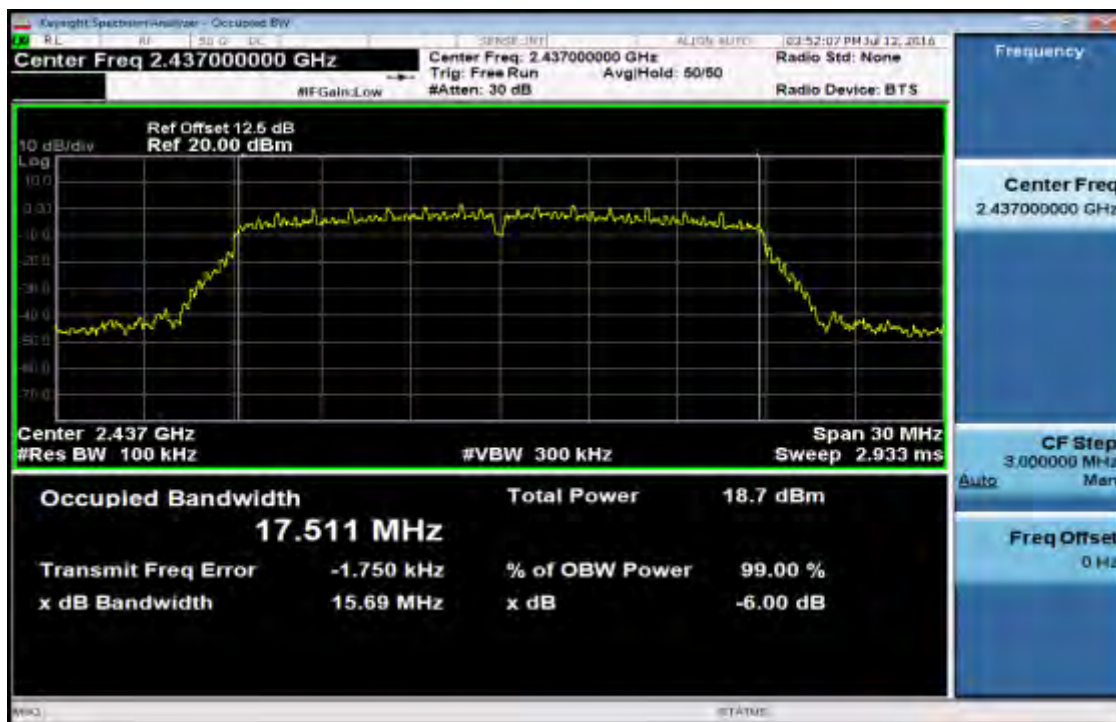
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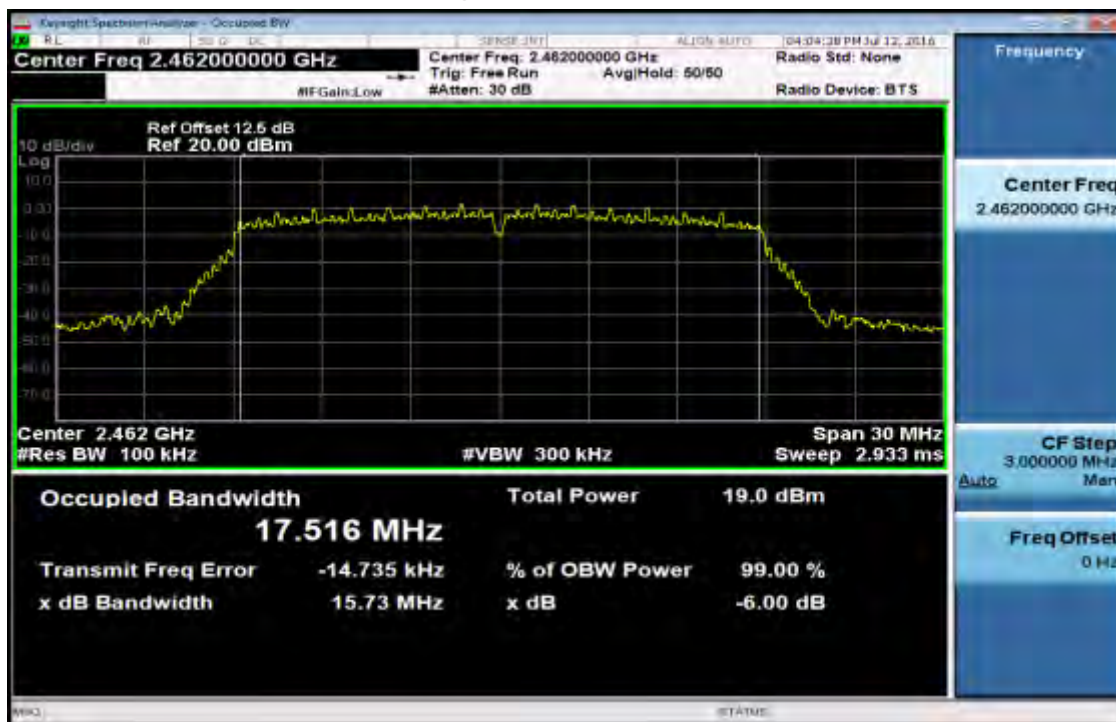
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



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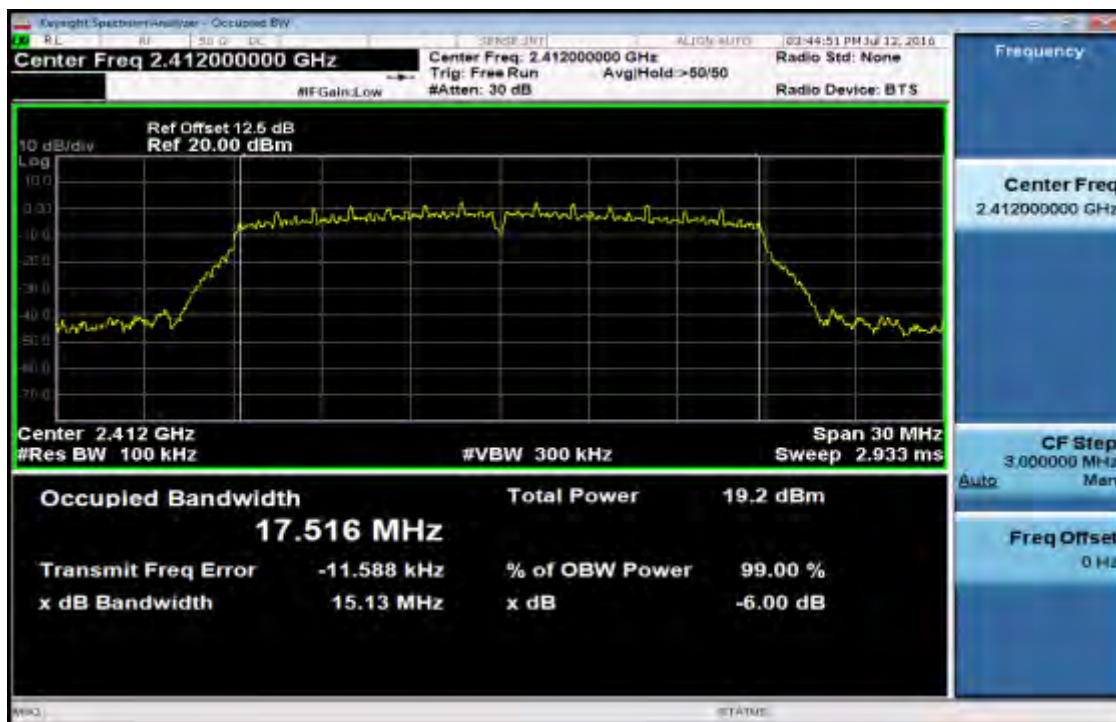
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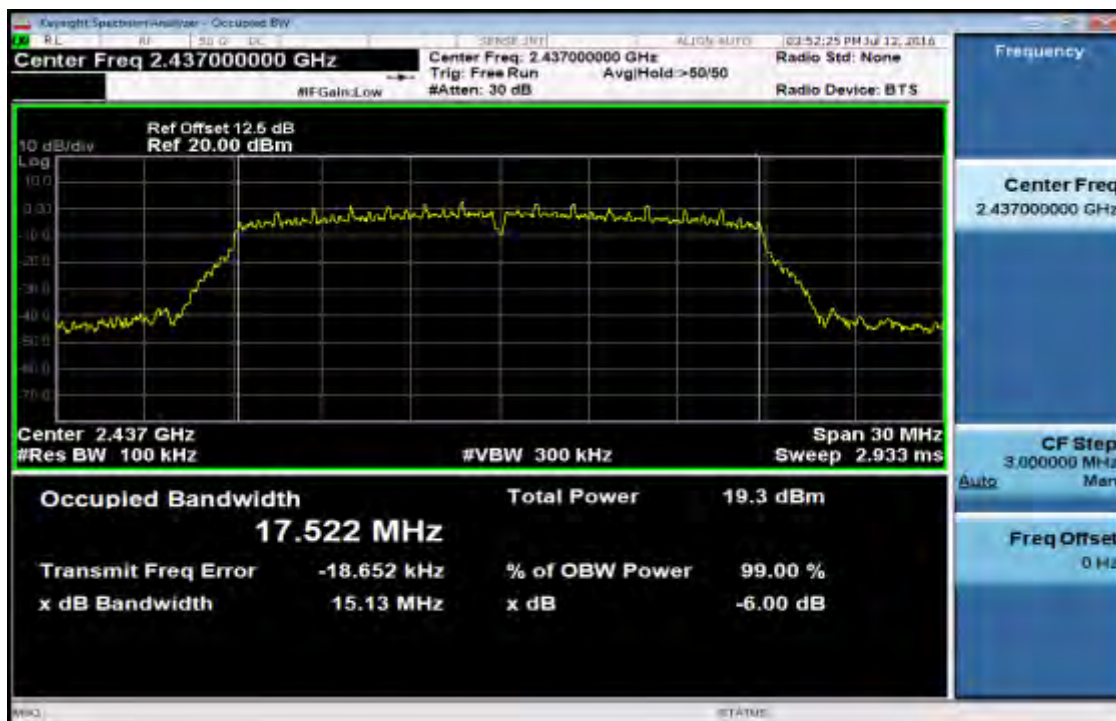
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802.11n_20M (AUX2)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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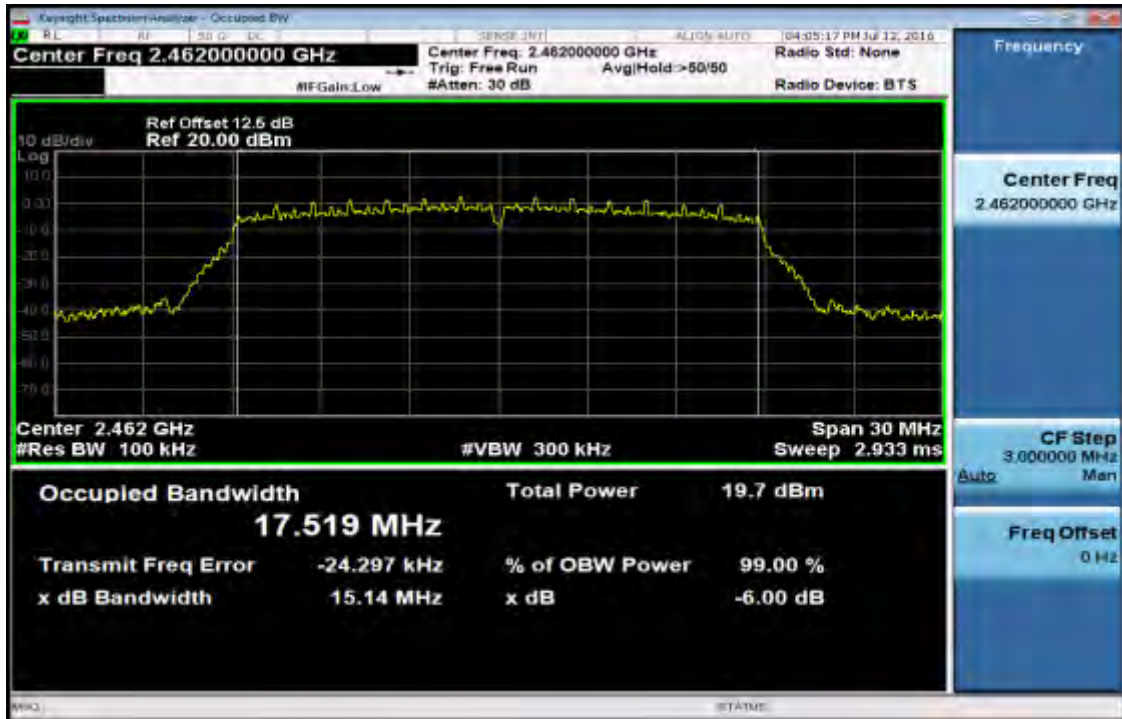
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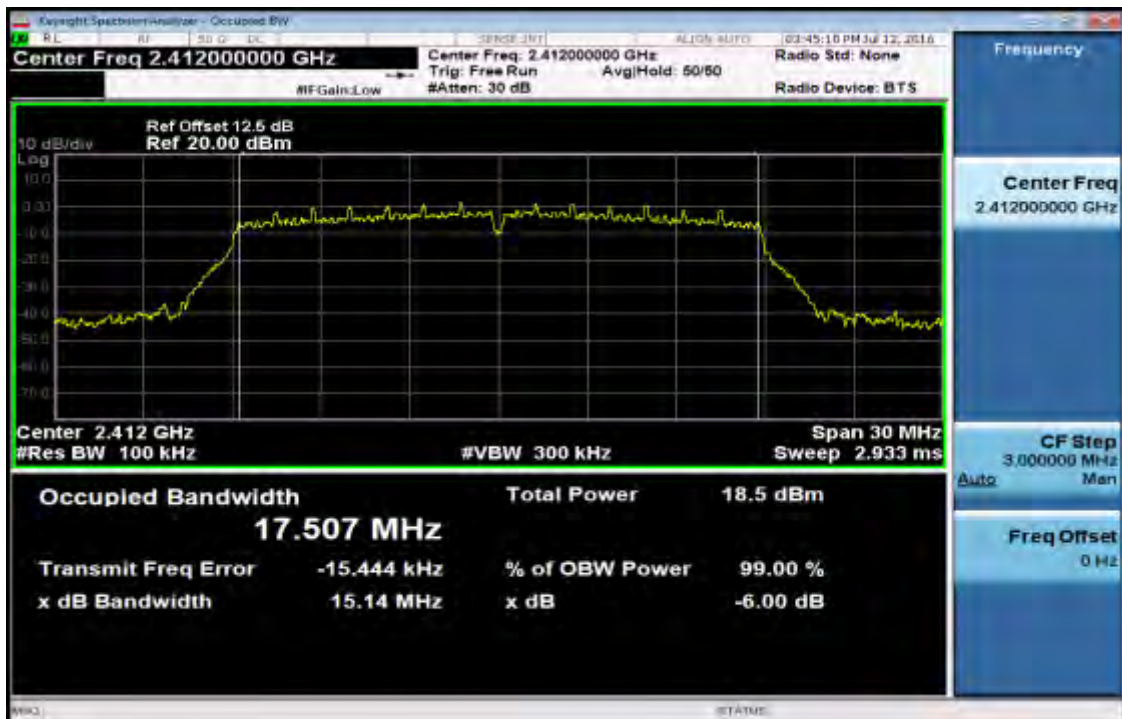
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6dB Band Width Test Data CH-High



802.11n_20M (AUX3)

6dB Band Width Test Data CH-Low



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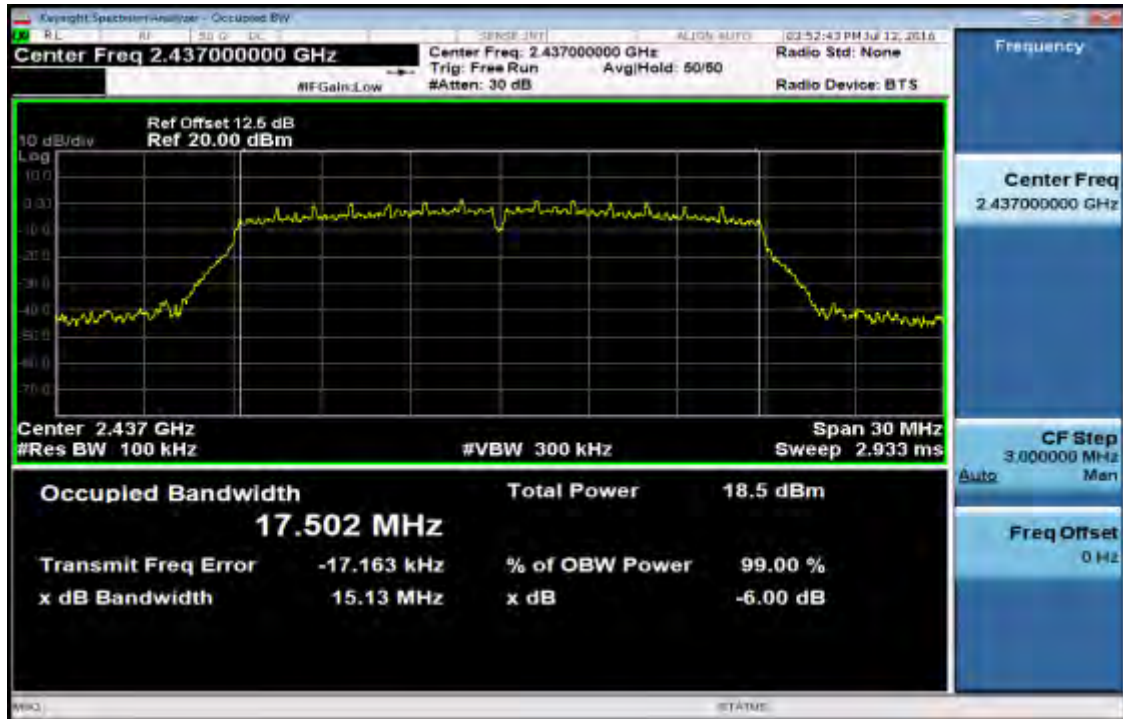
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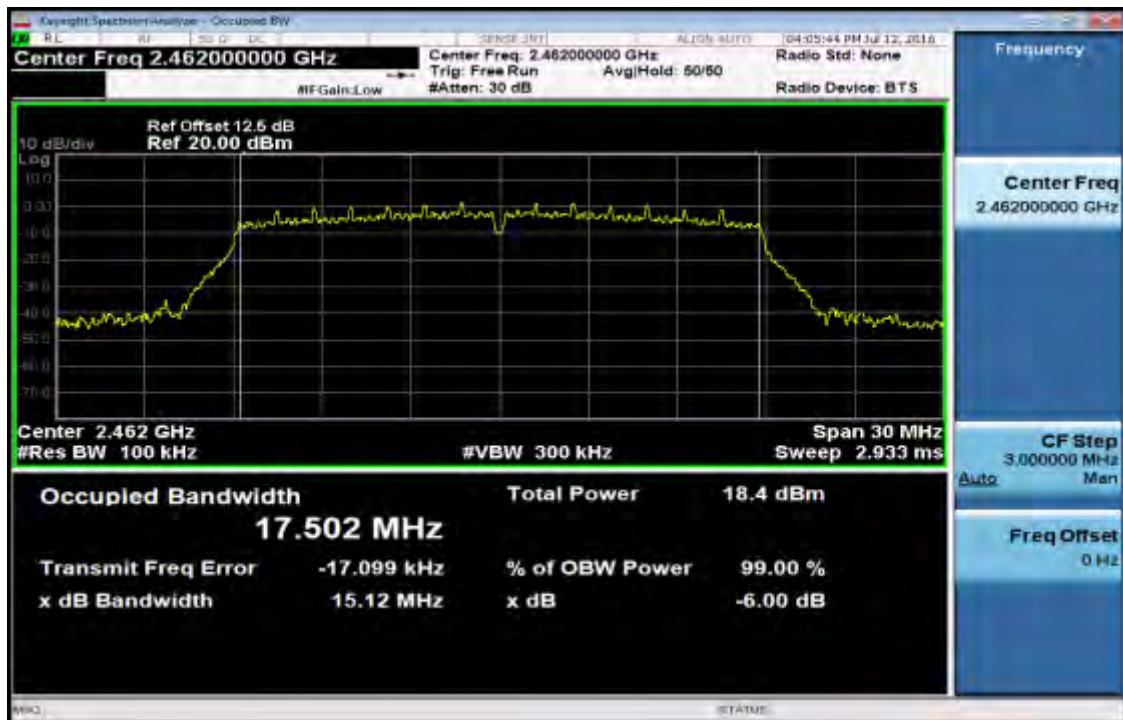
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



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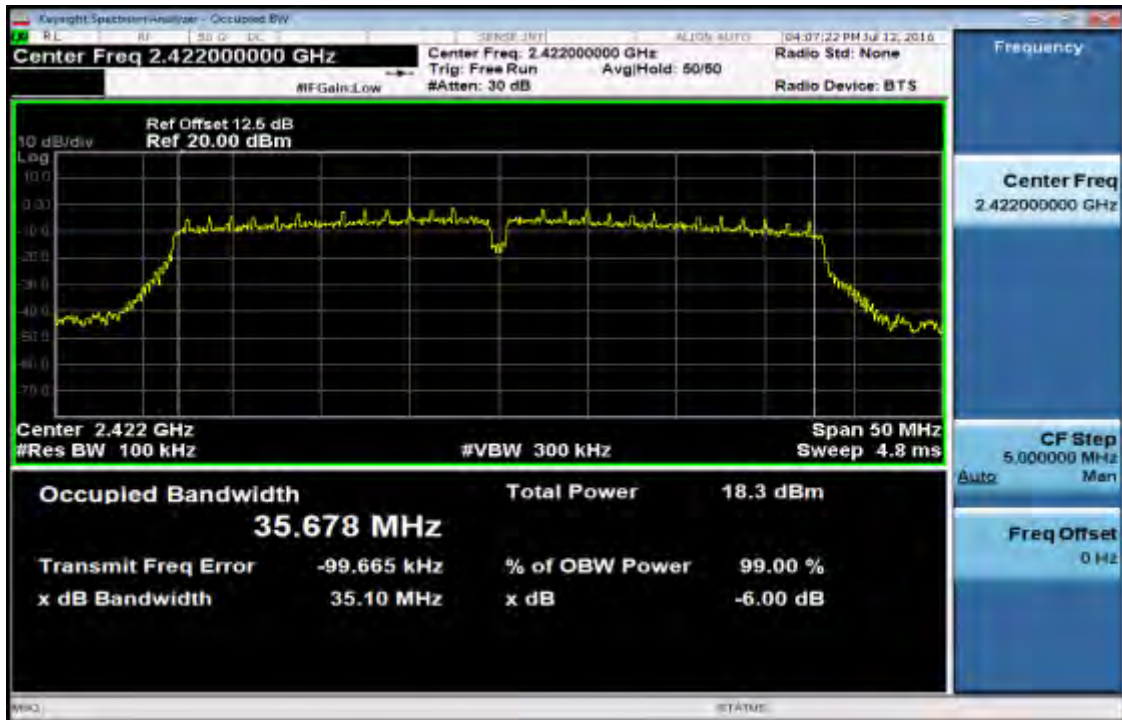
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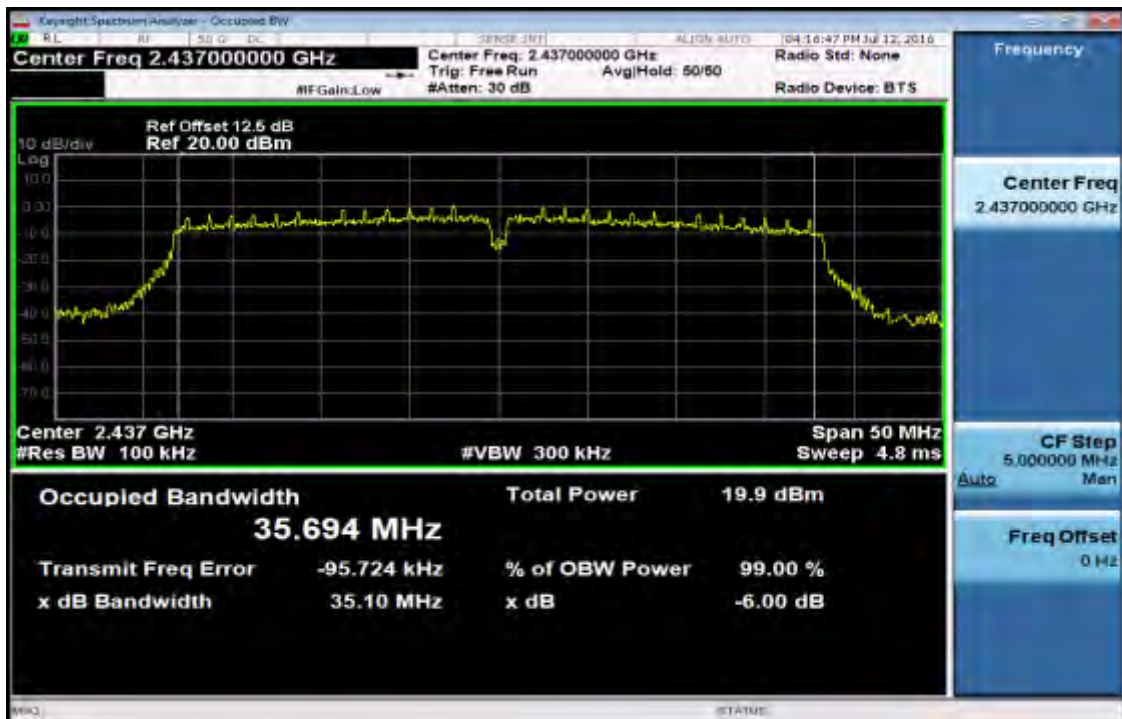
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802.11n_40M (Main)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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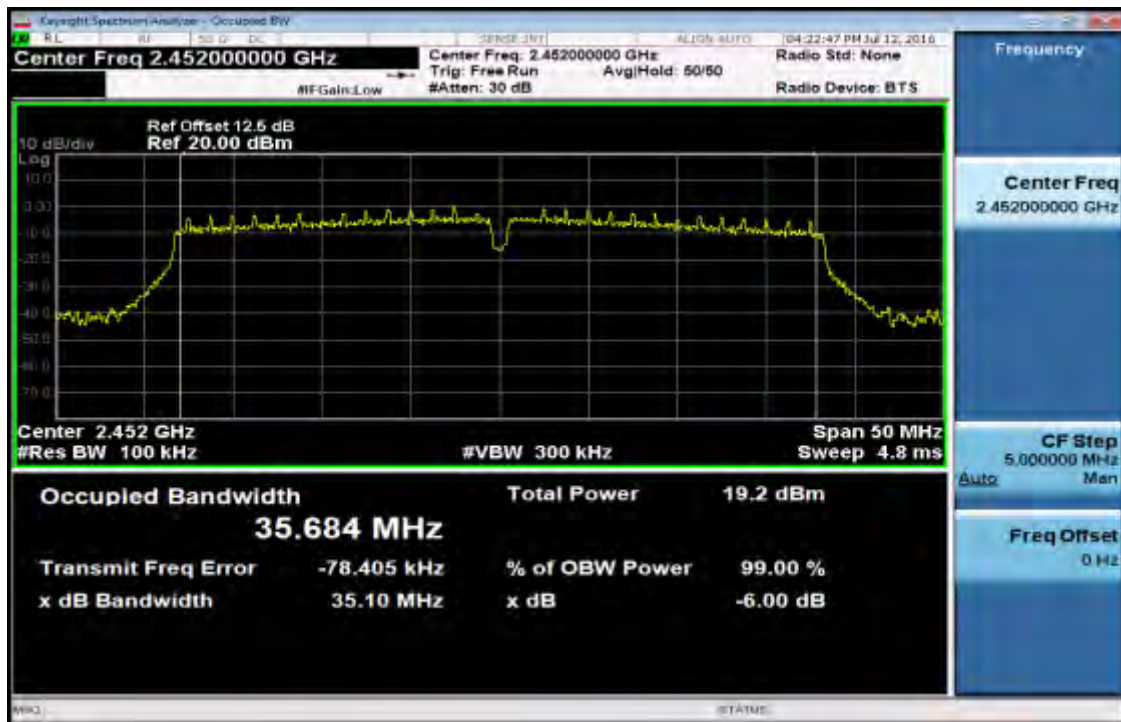
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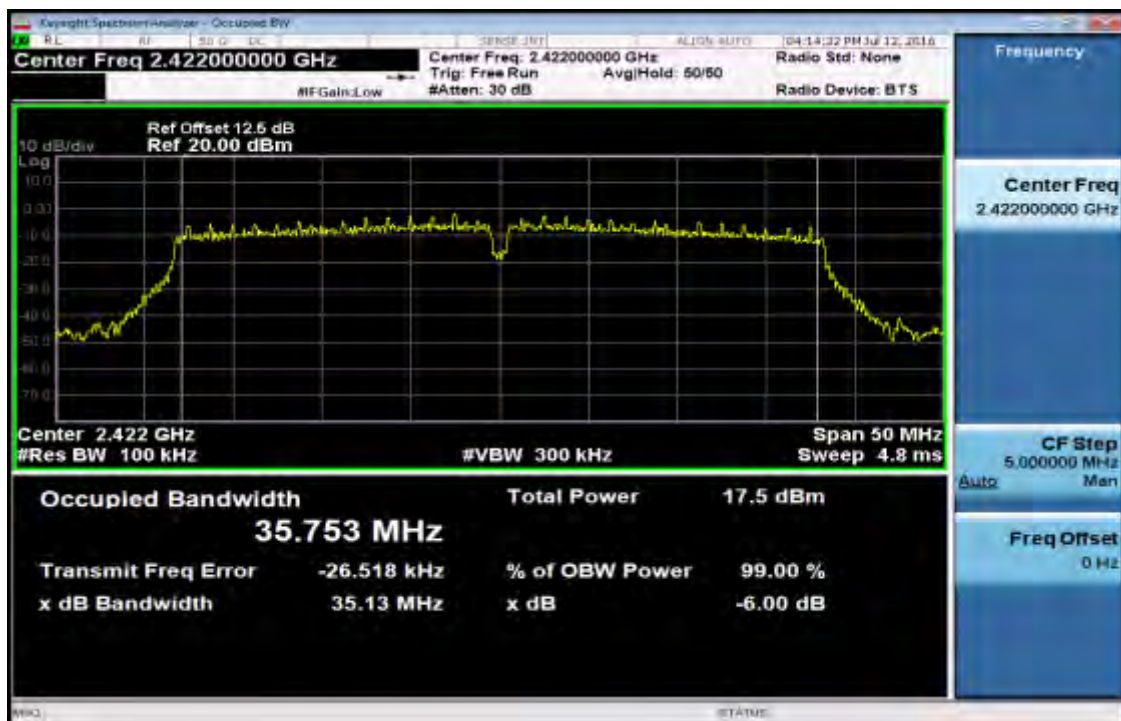
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6dB Band Width Test Data CH-High



802.11n_40M (AUX1)

6dB Band Width Test Data CH-Low



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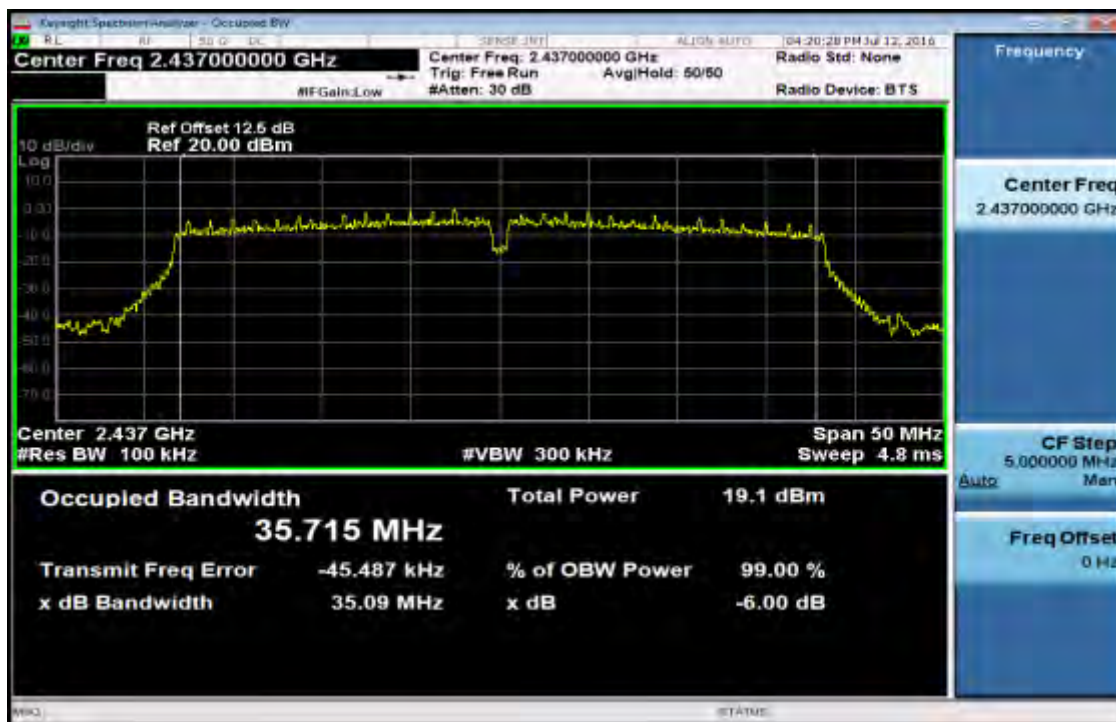
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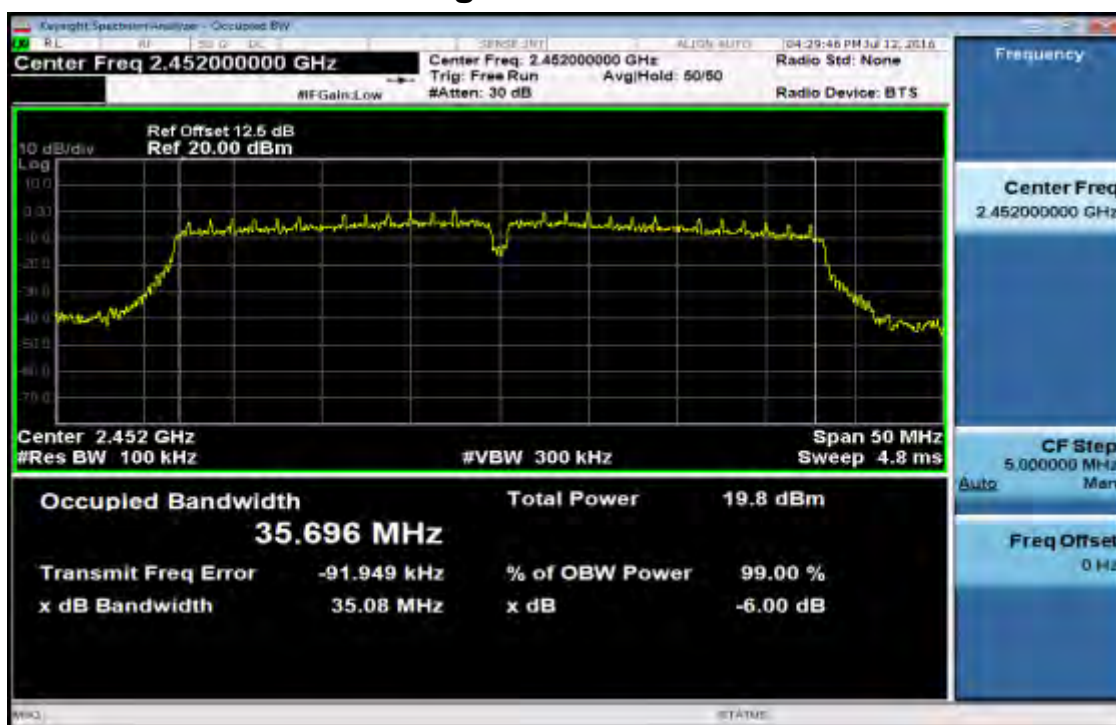
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



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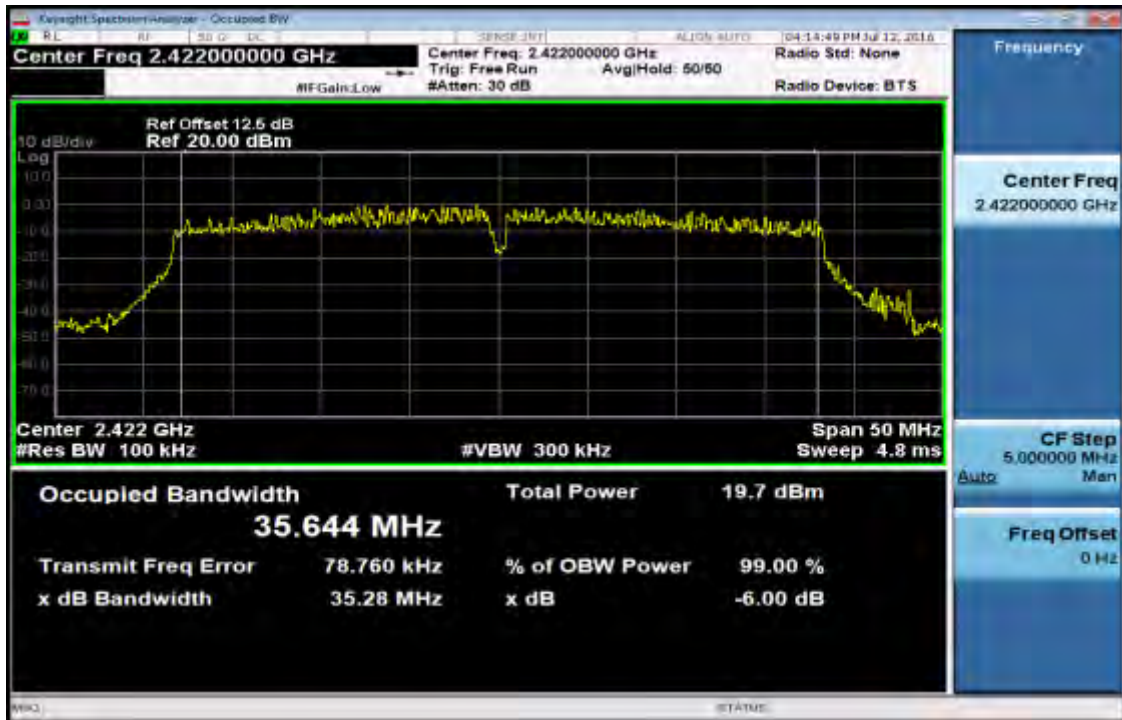
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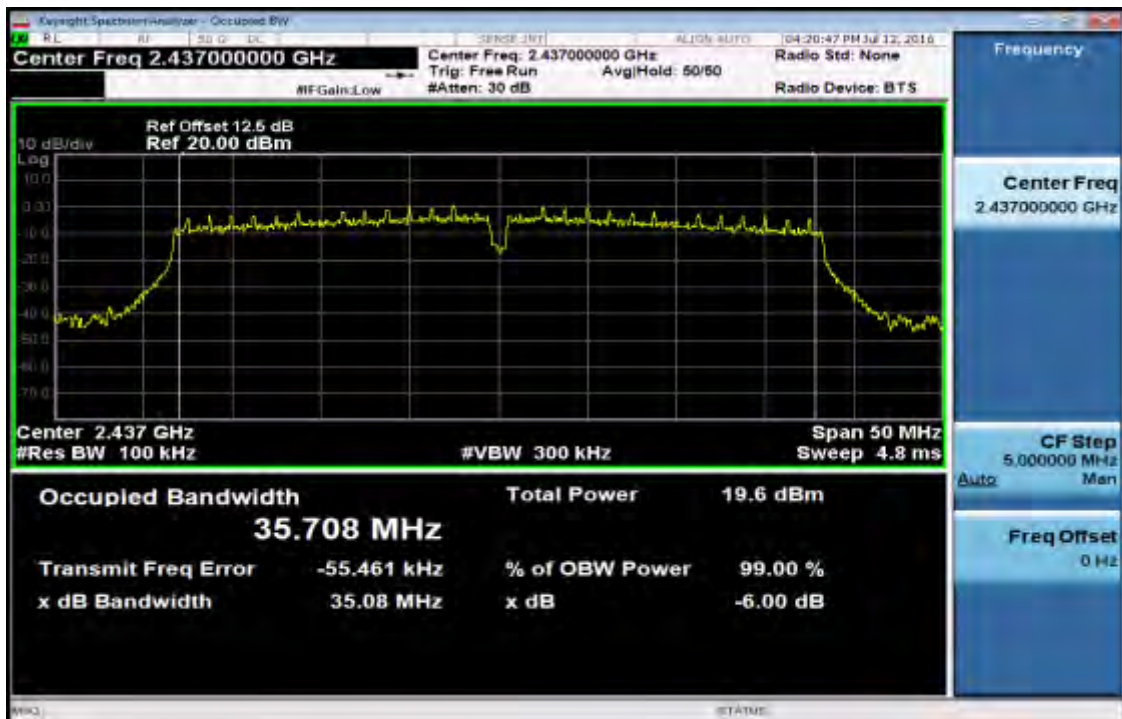
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802.11n_40M (AUX2)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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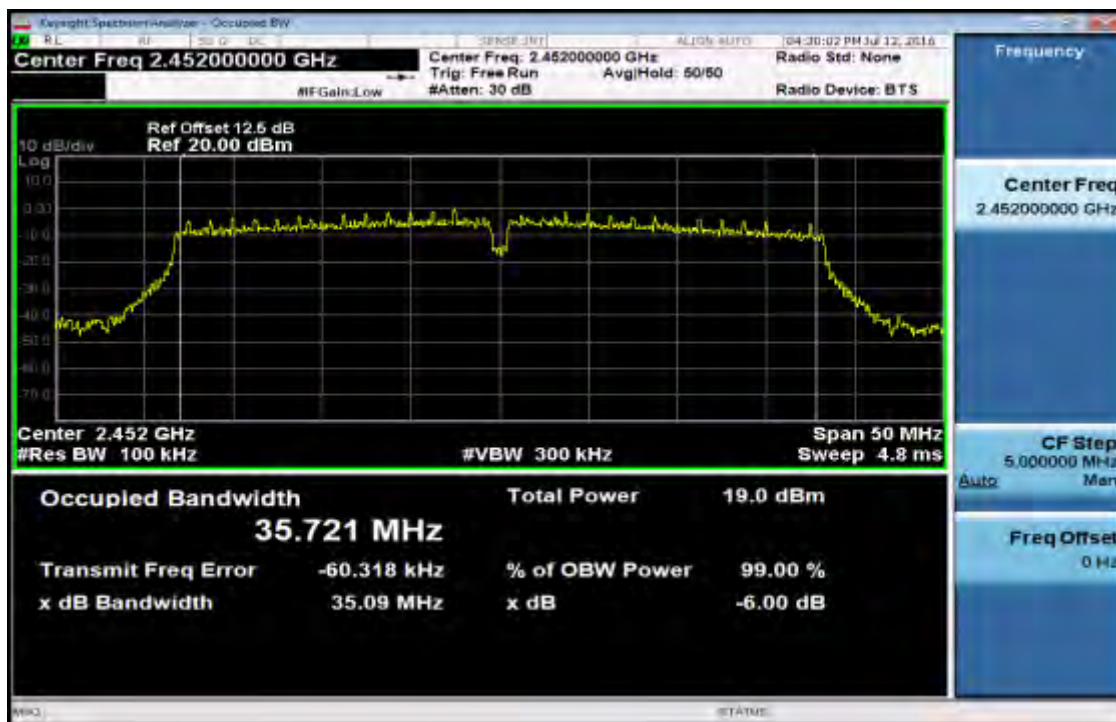
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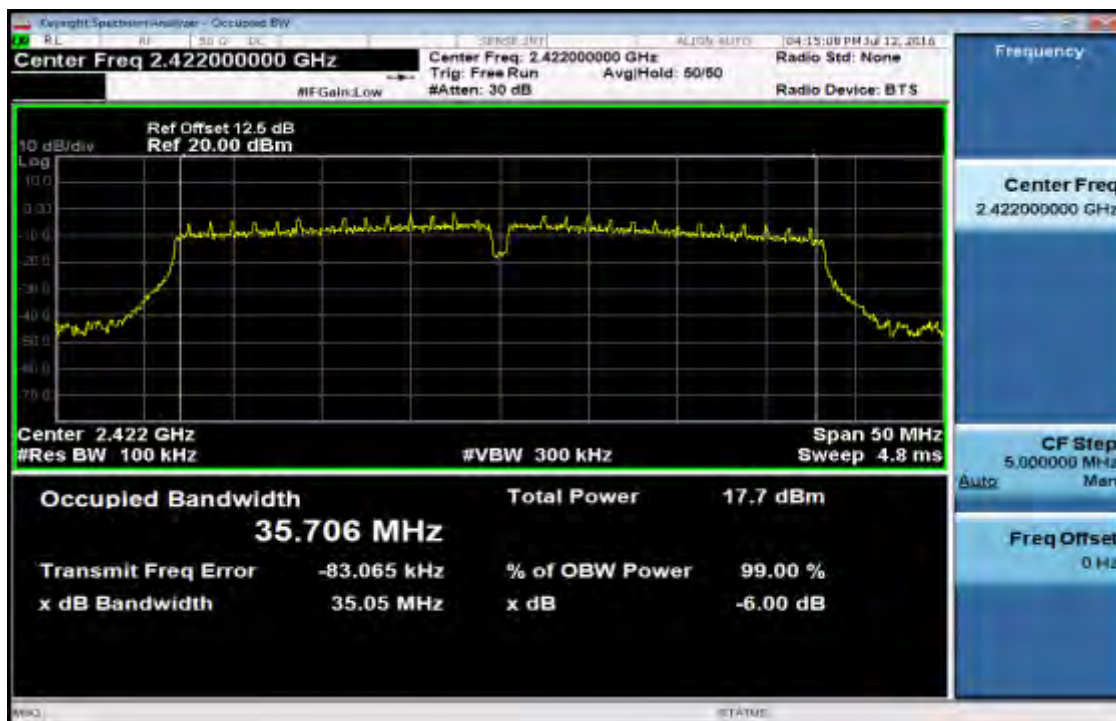
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6dB Band Width Test Data CH-High



802.11n_40M (AUX3)

6dB Band Width Test Data CH-Low



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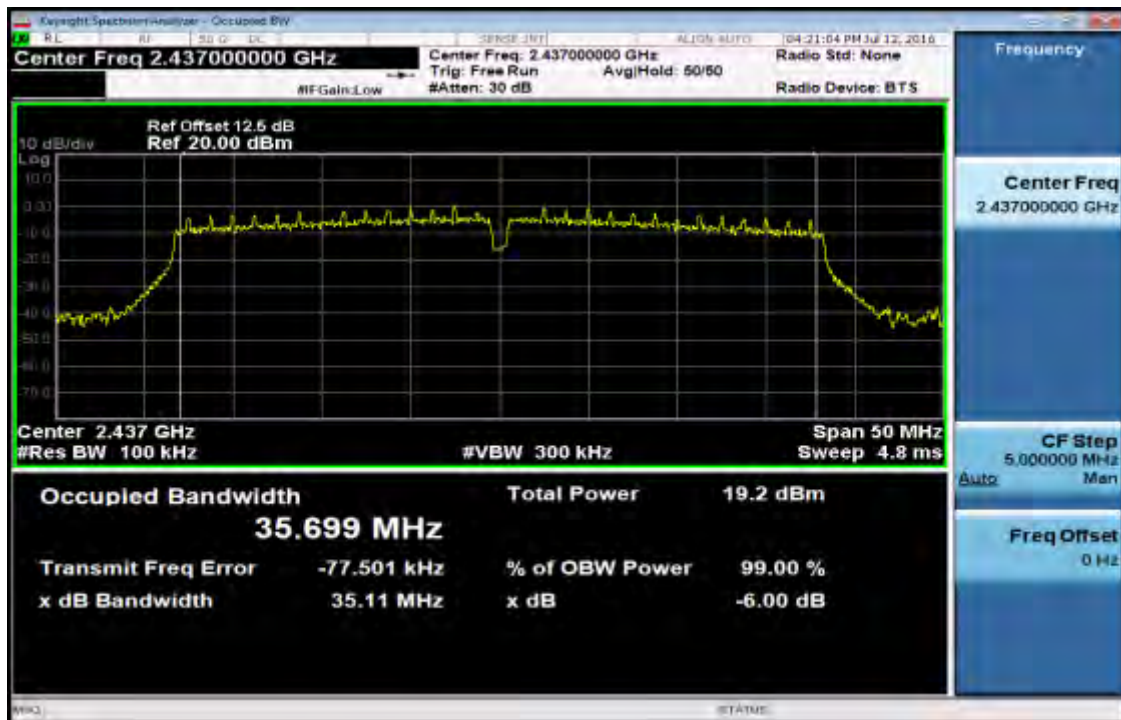
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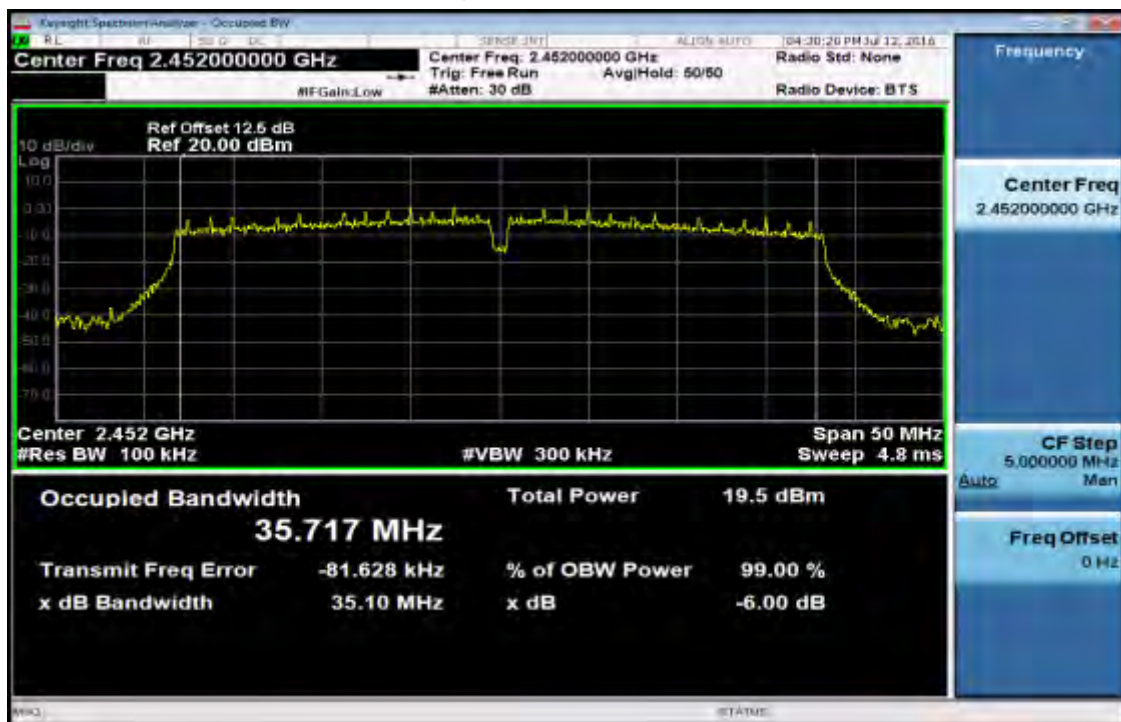
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

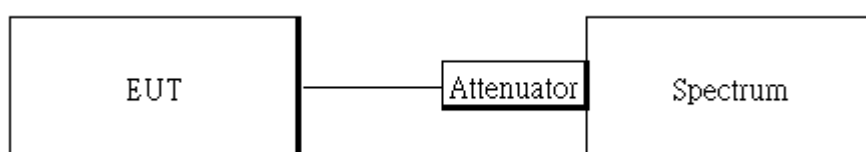
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

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

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	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017

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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802.11b

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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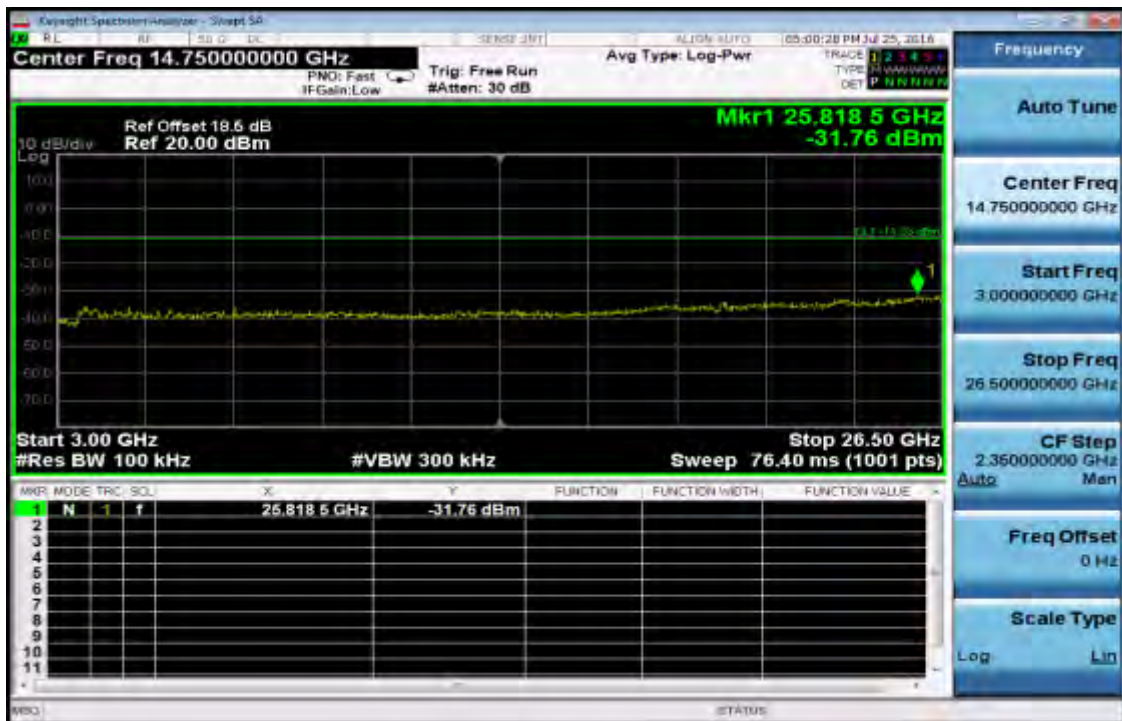
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802.11b

Spurious Emission Test Data CH-Low



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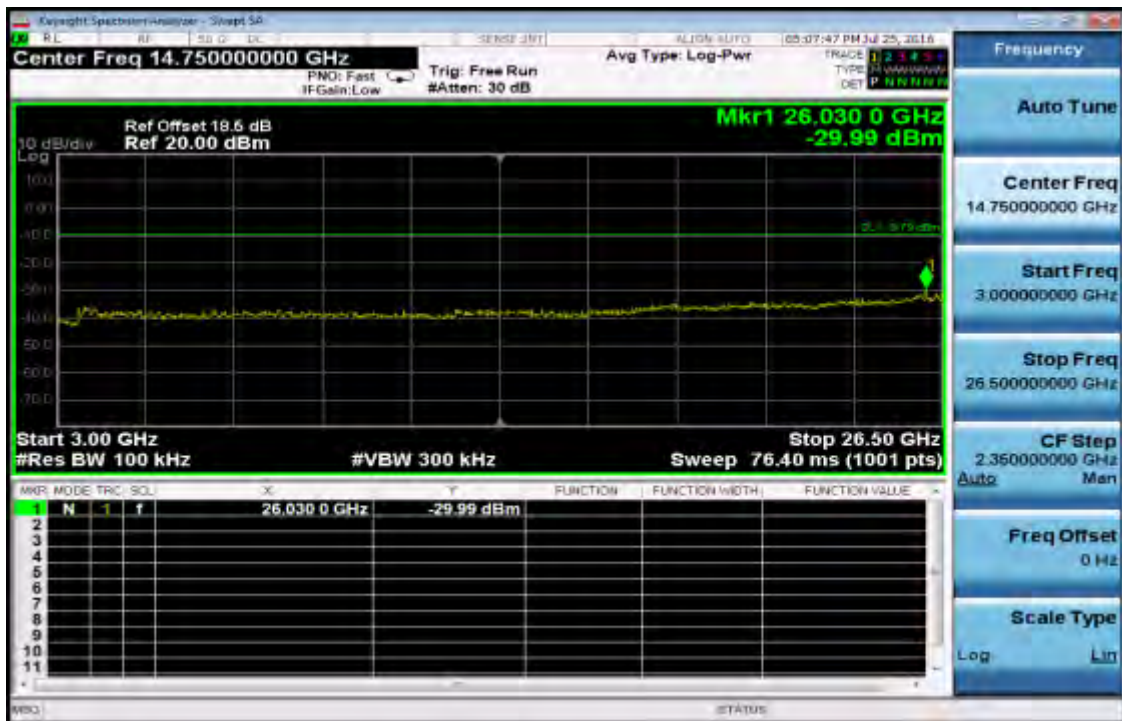
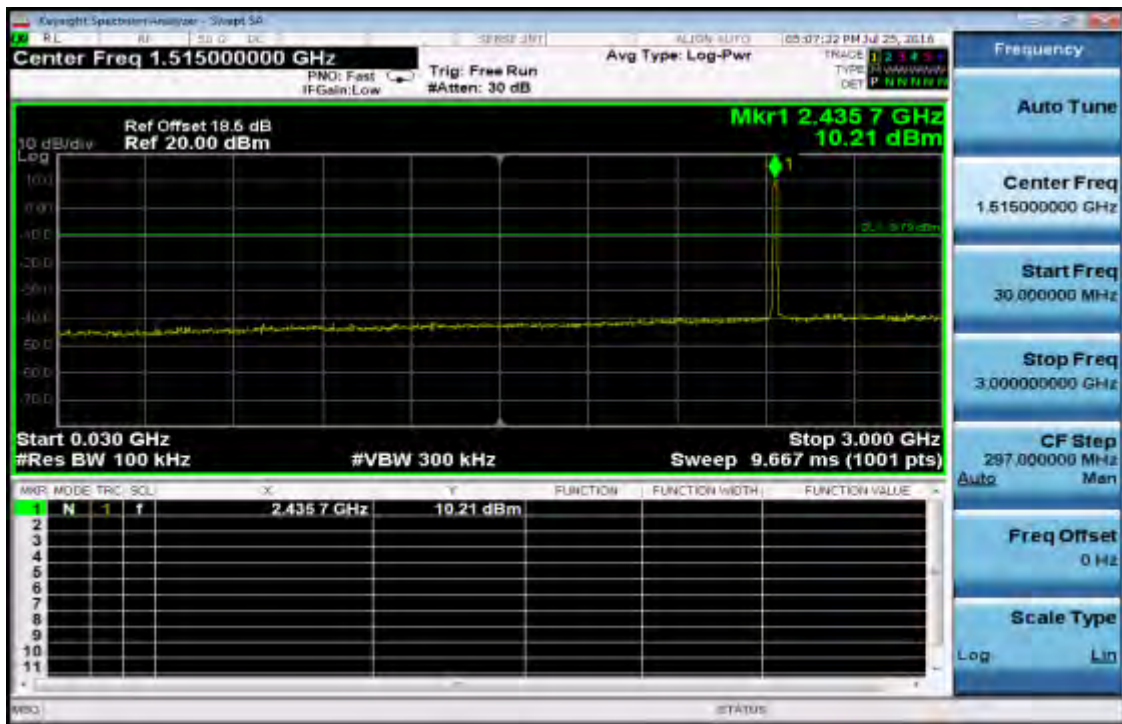
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Spurious Emission Test Data CH-Mid



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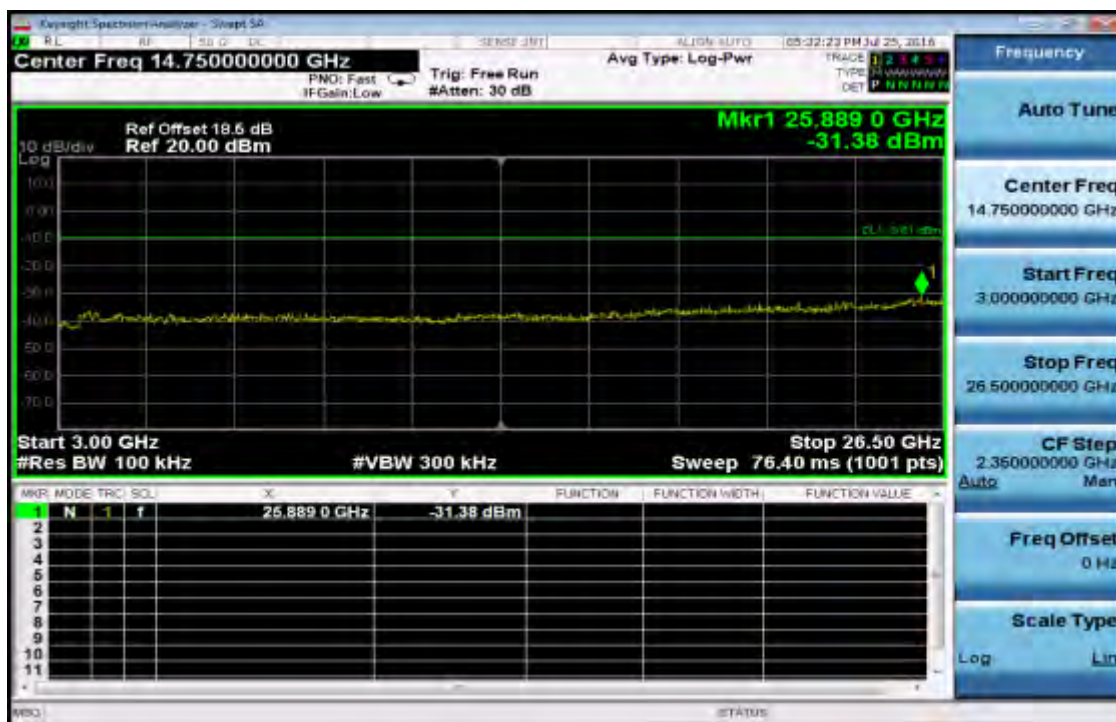
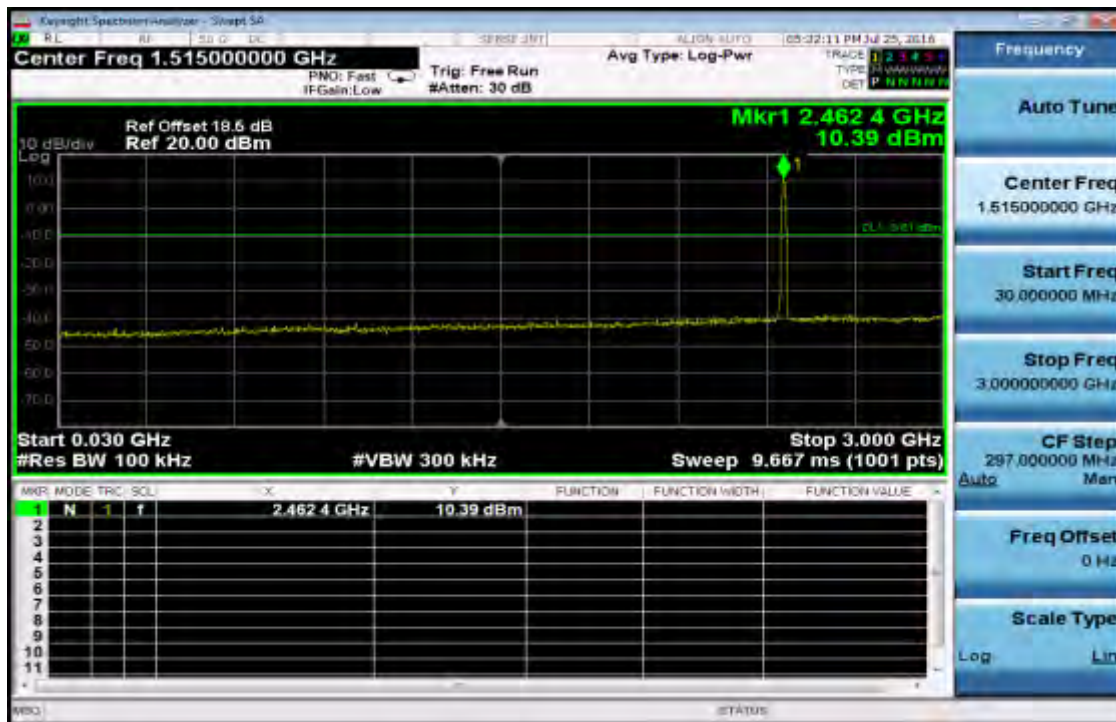
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Spurious Emission Test Data CH-High



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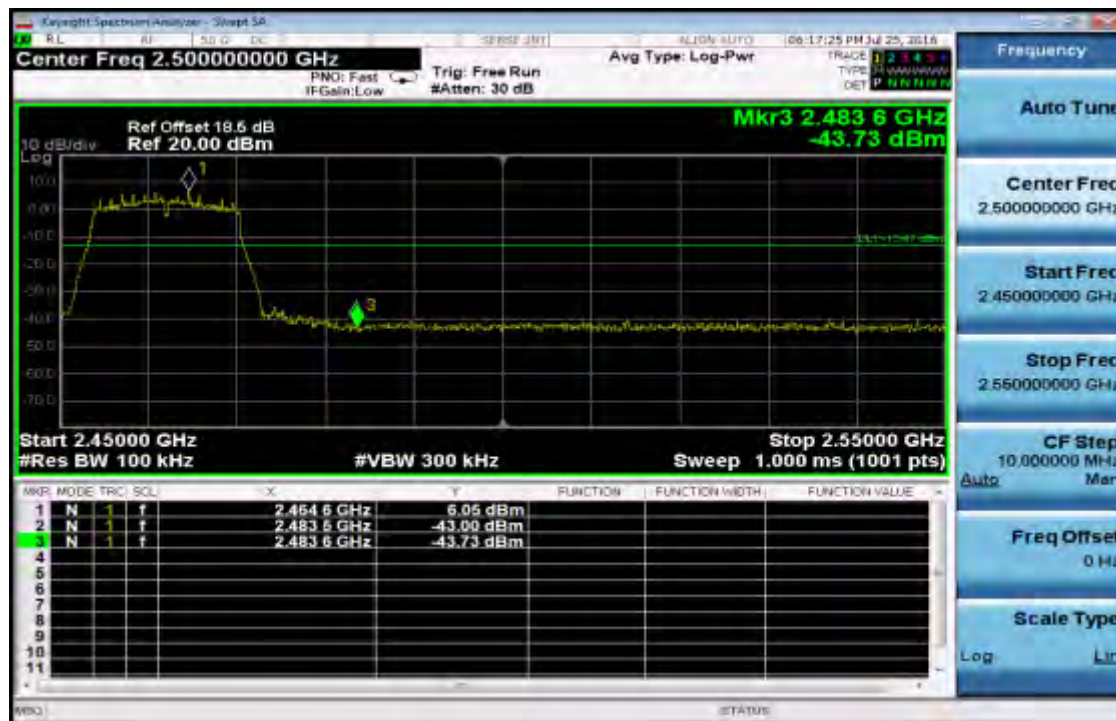
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802.11g

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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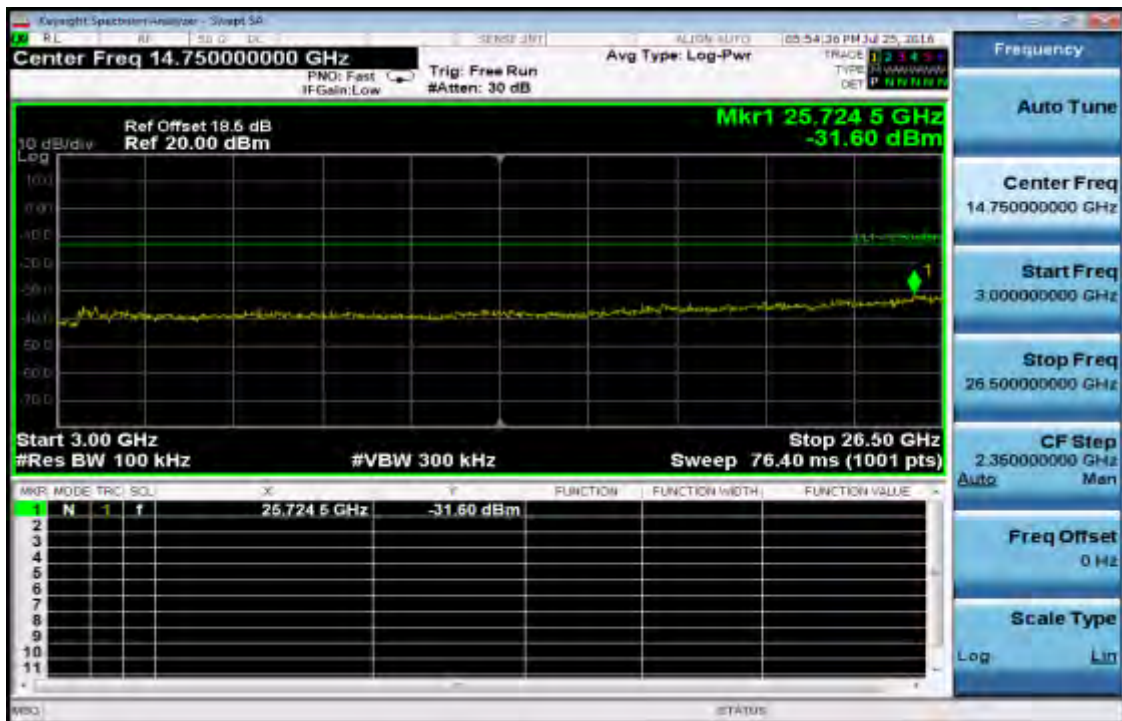
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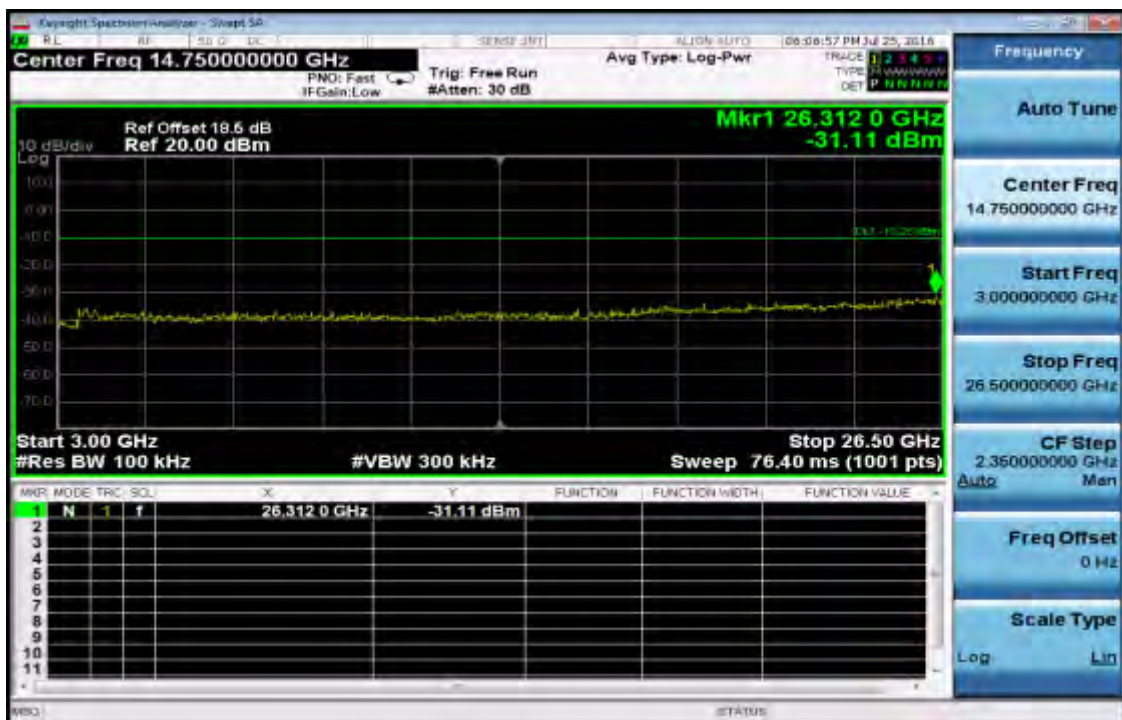
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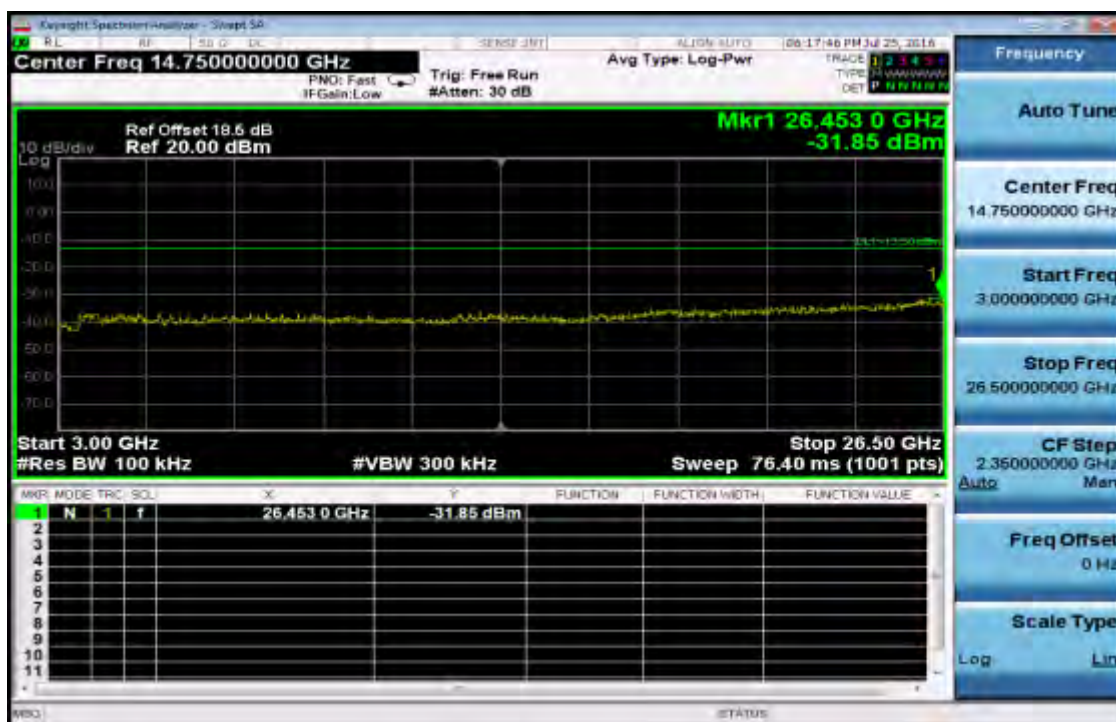
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CDD Mode:
802.11n_HT20
Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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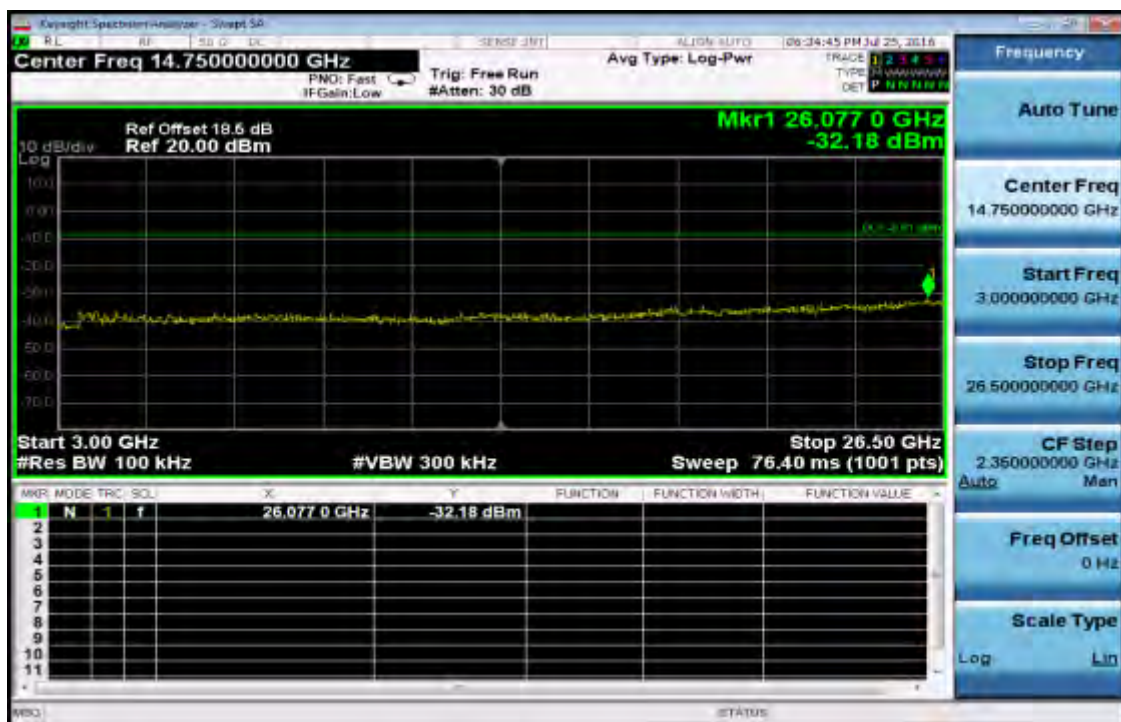
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Spurious Emission Test Data CH-Mid



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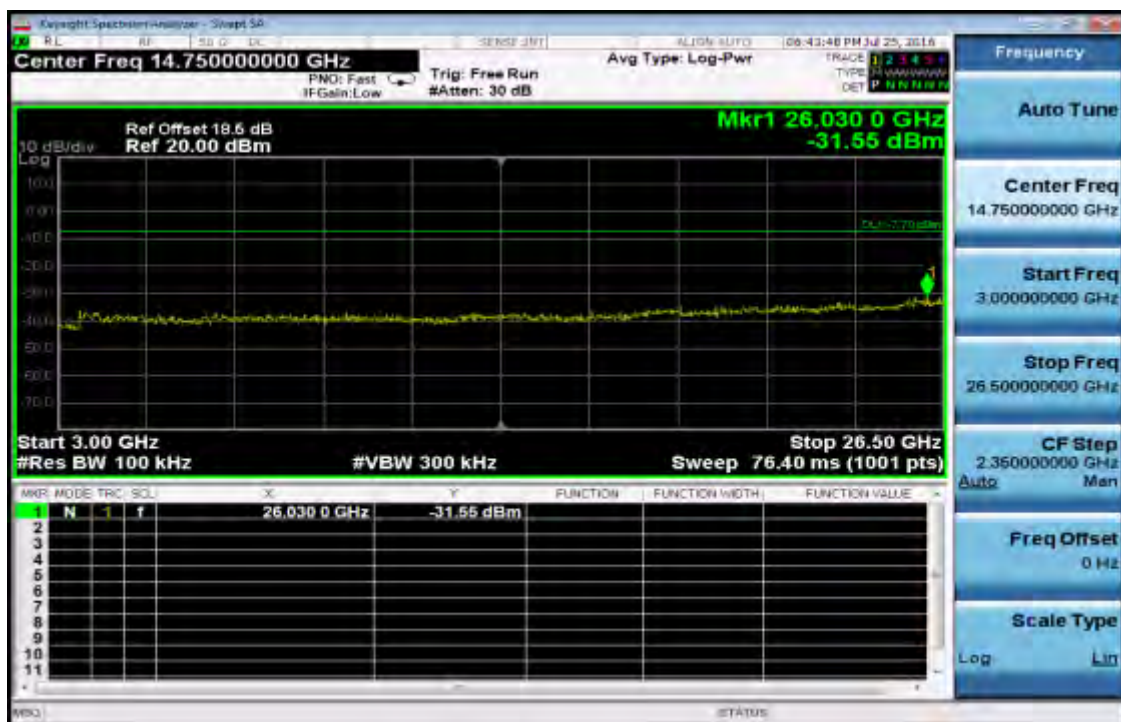
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Spurious Emission Test Data CH-High



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Band Edges Test Data CH-Low



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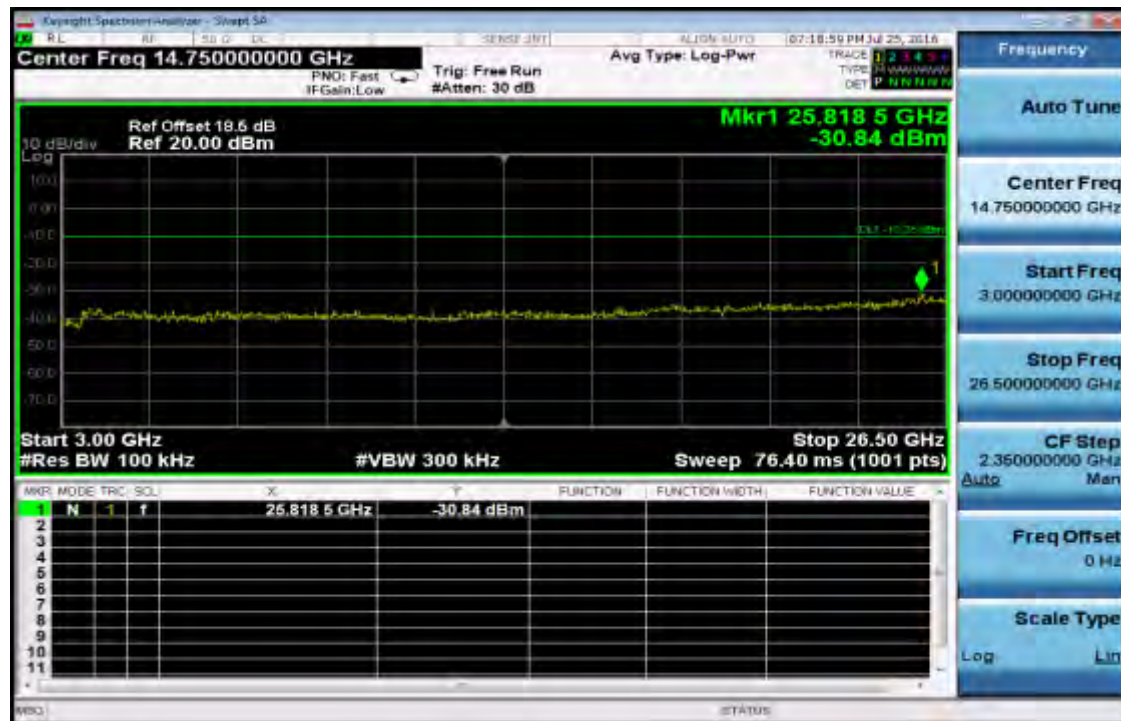
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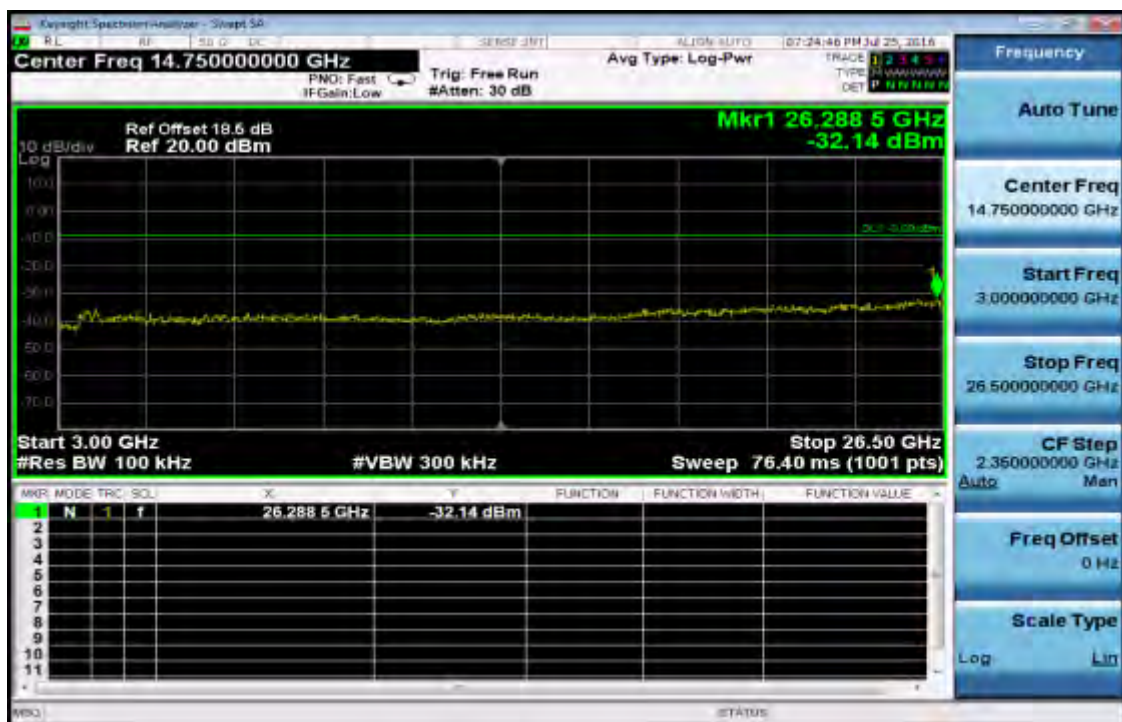
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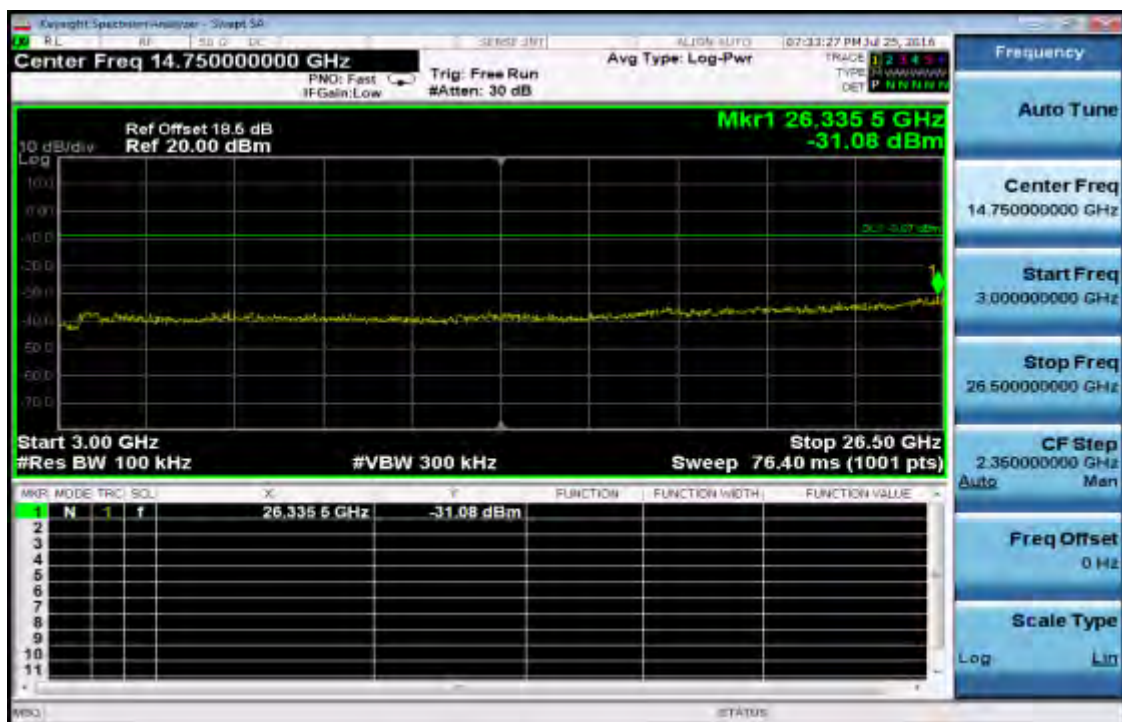
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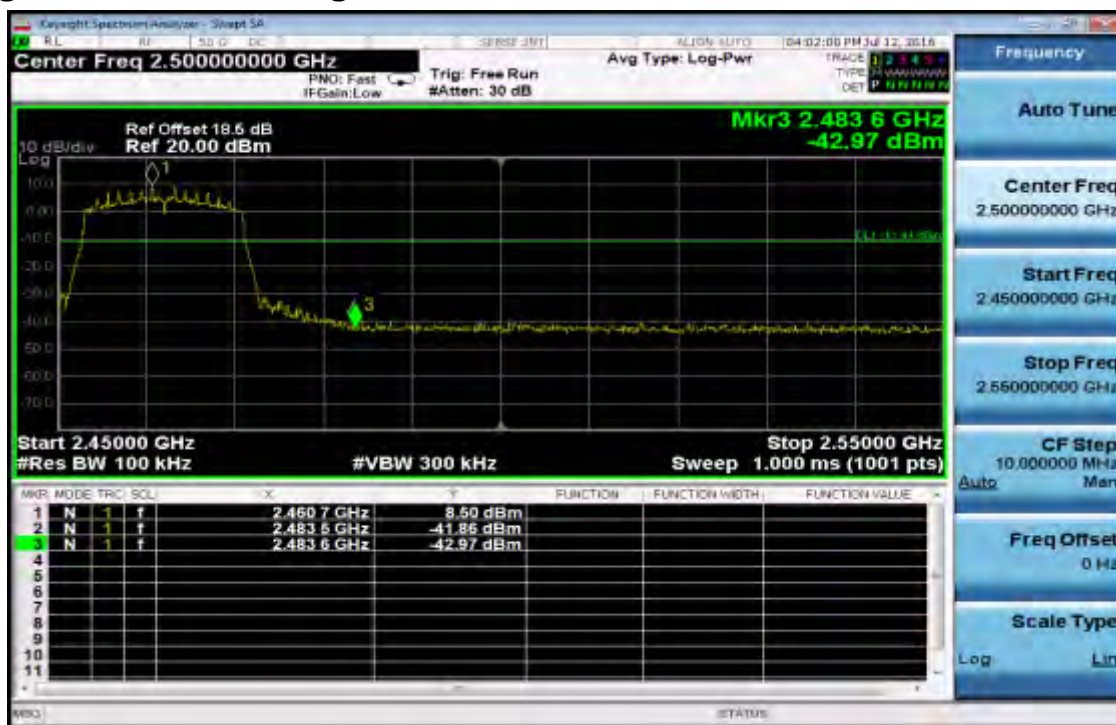
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Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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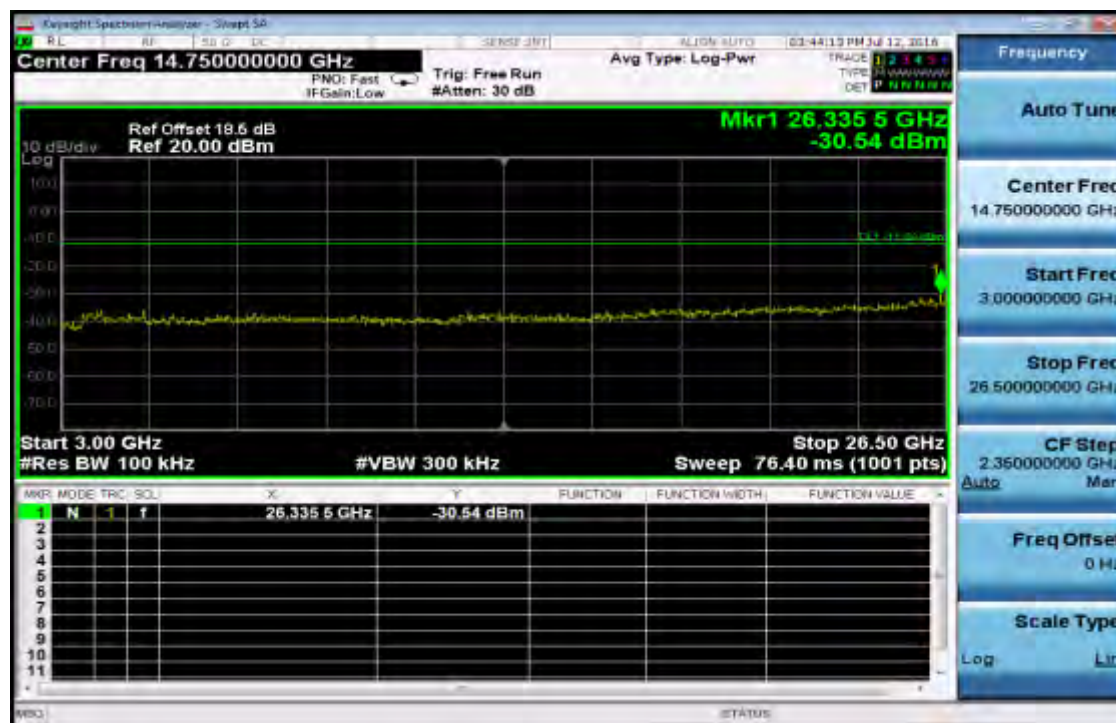
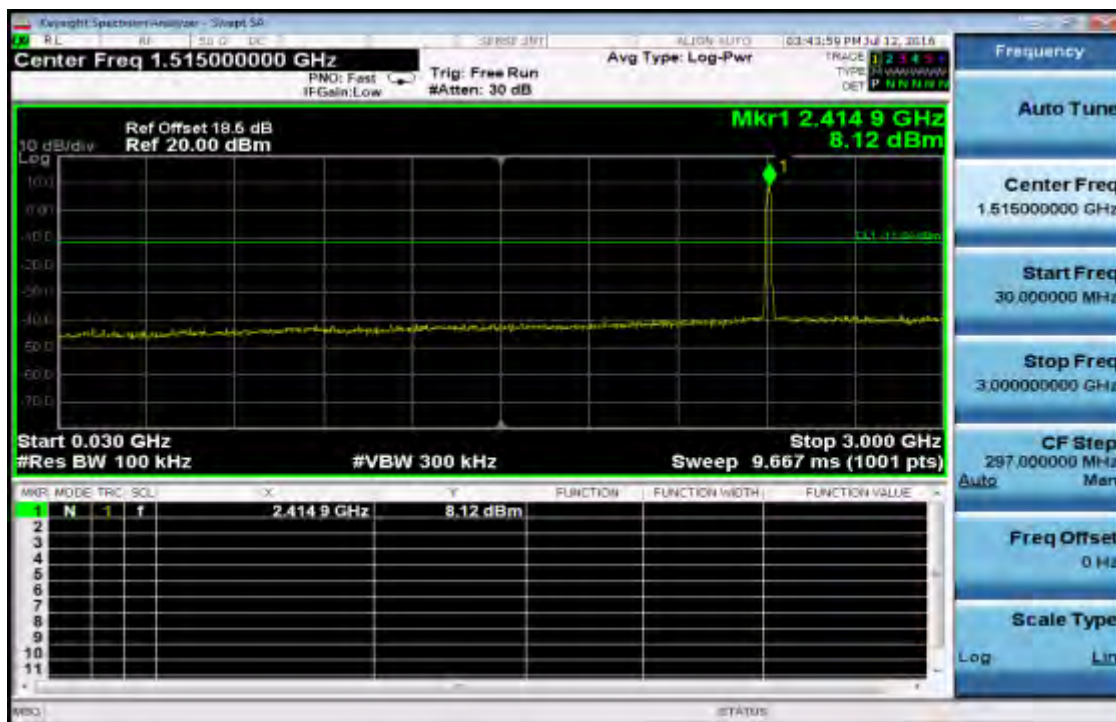
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Spurious Emission Test Data CH-Mid



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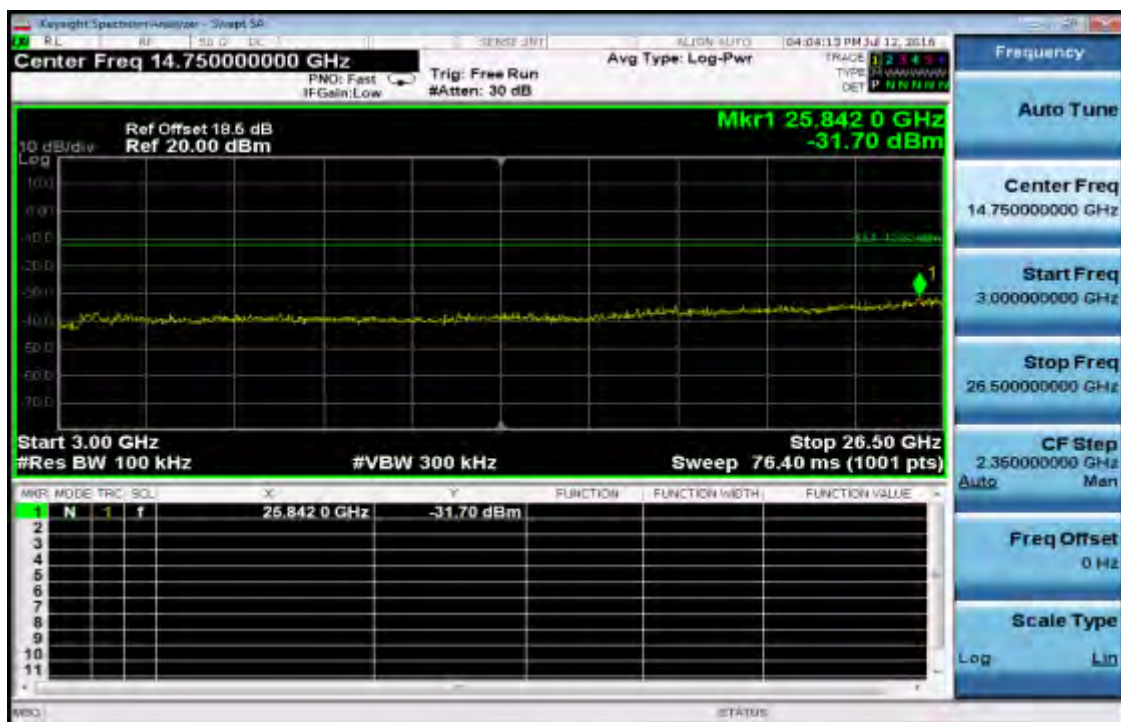
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Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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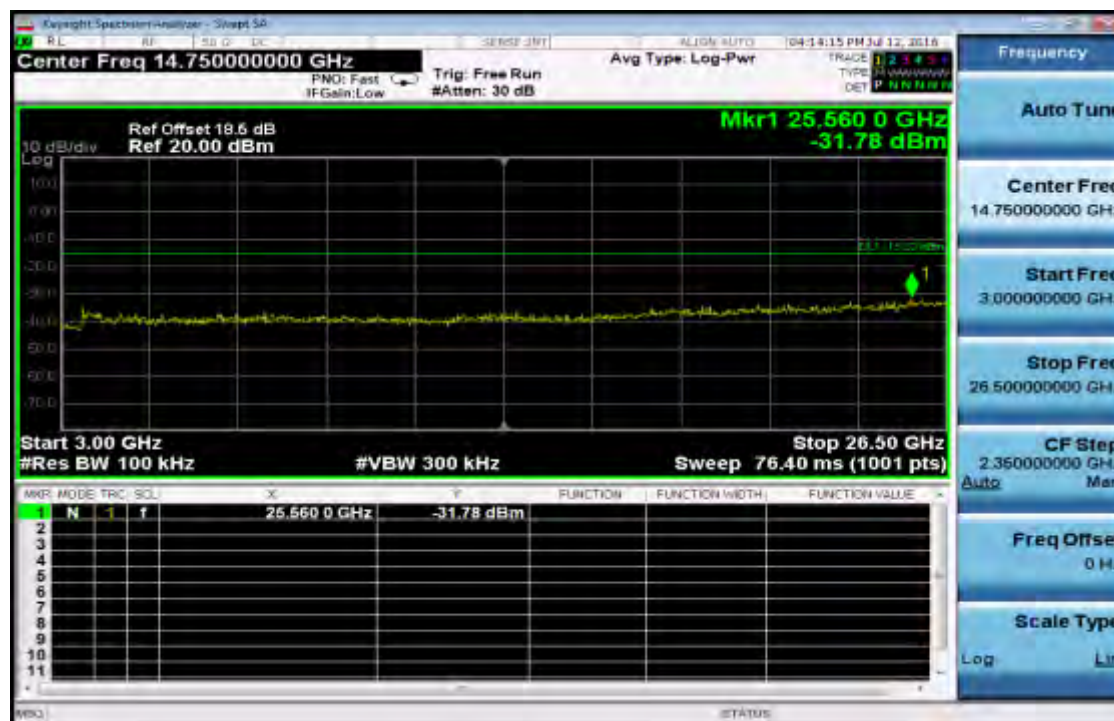
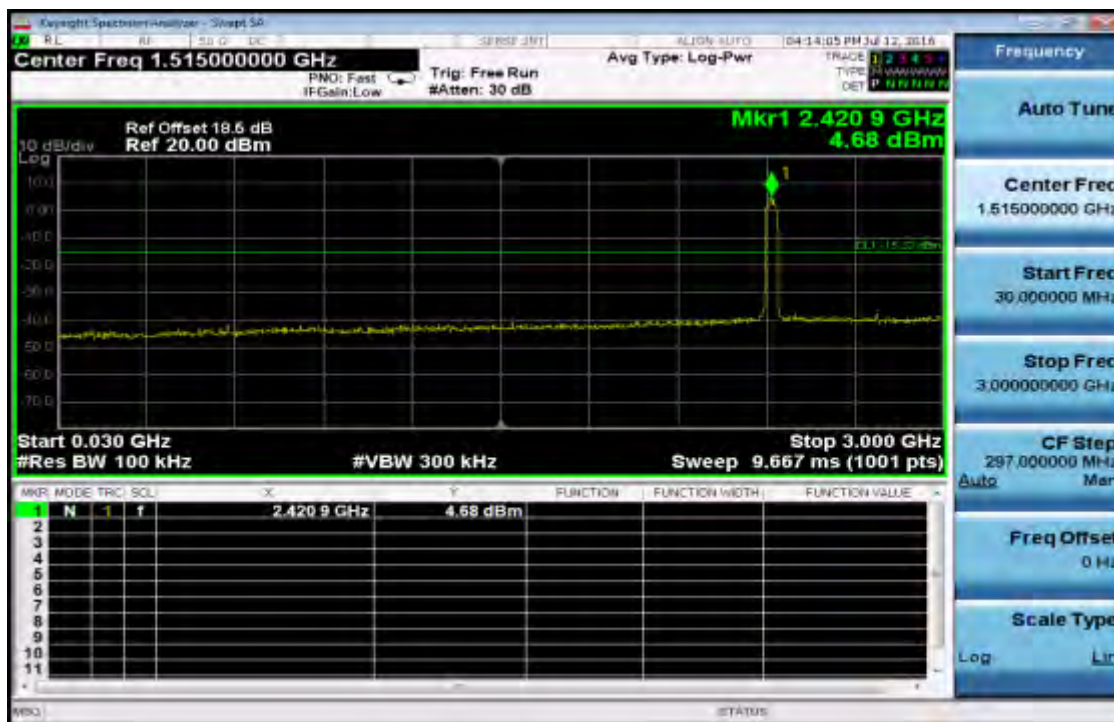
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802.11n_HT40

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

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

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

Note:

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

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11.2 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100760	05/10/2016	05/09/2017
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2016	01/28/2017
Loop Antenna	ETS.LINDGREN	6502	148045	09/07/2015	09/06/2016
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/14/2015	12/13/2016
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/10/2015	08/09/2016
Pre-Amplifier	Agilent	8447D	2944A07676	01/02/2016	01/01/2017
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/02/2016	01/01/2017
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	01/02/2016	01/01/2017
3m Site NSA	SGS	966 chamber	N/A	07/01/2016	06/30/2017
Low Loss Cable	Huber Suhner	966 TX	1	01/02/2016	01/01/2017
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2015	12/11/2016
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/02/2016	01/01/2017

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

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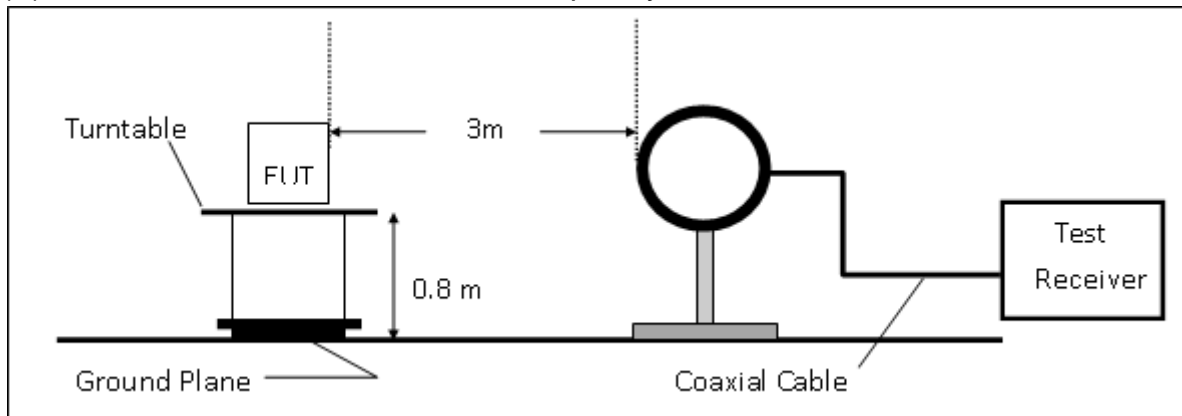
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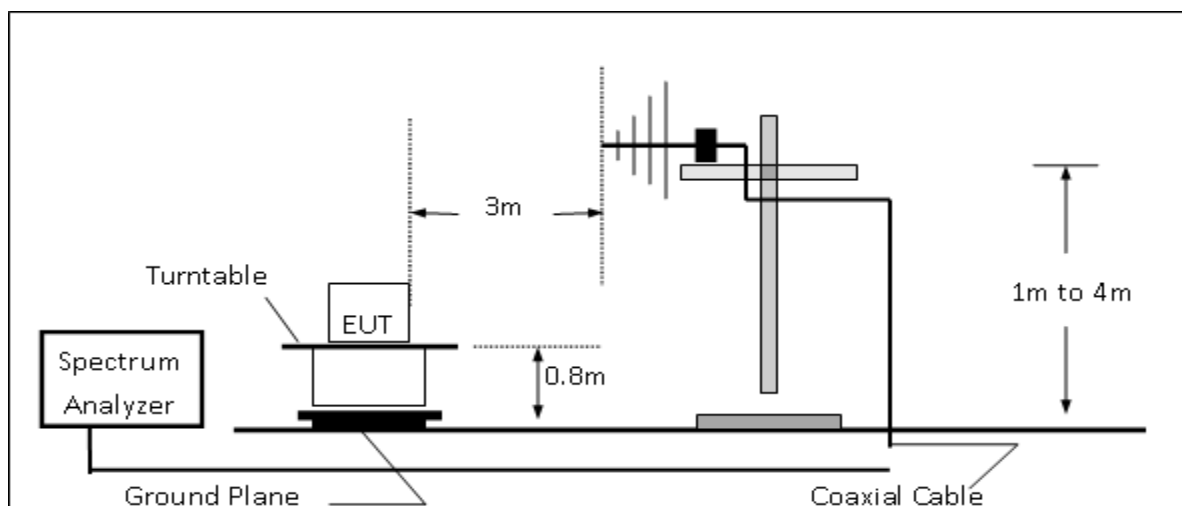
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11.3 Test SET-UP

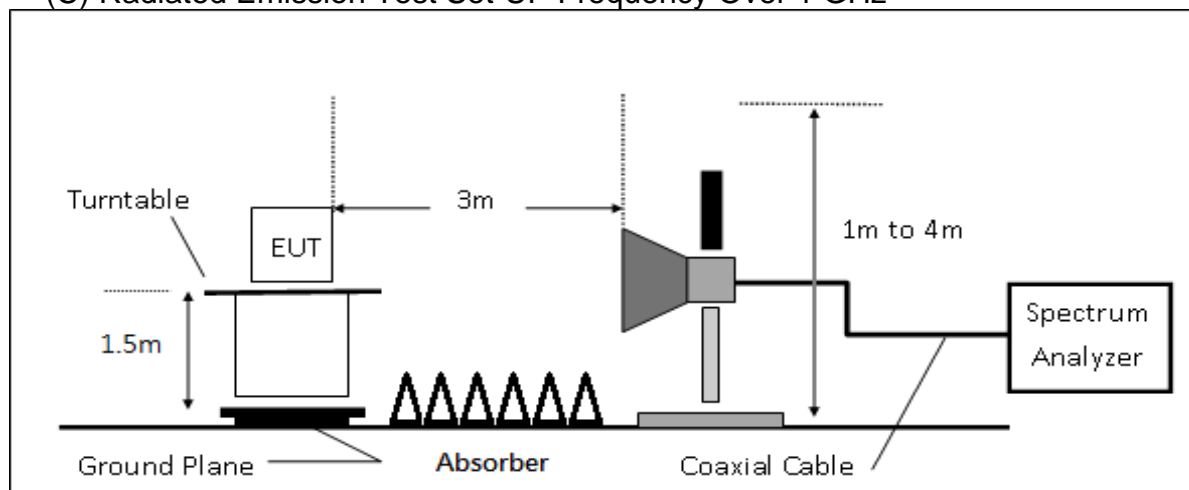
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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11.4 Measurement Procedure

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

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

Note :

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

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

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

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

11.7 Measurement Result

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

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Radiated Band Edge Measurement Result (802.11b)

Operation Mode :	802.11b	Test Date :	05/08/2016
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
2390.00	E	Average	44.03	45.77	-1.74	54.00	-9.97
2390.00	E	Peak	55.31	57.06	-1.74	74.00	-18.69

Operation Mode :	802.11b	Test Date :	05/08/2016
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
2390.00	E	Average	44.91	46.65	-1.74	54.00	-9.09
2390.00	E	Peak	57.92	59.66	-1.74	74.00	-16.08

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Operation Mode :	802.11b	Test Date :	05/08/2016
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
2483.50	E	Average	51.15	52.77	-1.62	54.00	-2.85
2483.50	E	Peak	60.02	61.64	-1.62	74.00	-13.98

Operation Mode :	802.11b	Test Date :	05/08/2016
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
2483.50	E	Average	51.89	53.51	-1.62	54.00	-2.11
2483.50	E	Peak	60.71	62.33	-1.62	74.00	-13.29

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Radiated Band Edge Measurement Result (802.11g)

Operation Mode :	802.11g	Test Date :	05/08/2016
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
2390.00	E	Average	42.29	44.03	-1.74	54.00	-11.71
2390.00	E	Peak	70.51	72.26	-1.74	74.00	-3.49

Operation Mode :	802.11g	Test Date :	05/08/2016
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
2390.00	E	Average	41.14	42.88	-1.74	54.00	-12.86
2390.00	E	Peak	70.03	71.78	-1.74	74.00	-3.97

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Operation Mode :	802.11g	Test Date :	05/08/2016
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
2483.50	E	Average	43.50	45.12	-1.62	54.00	-10.50
2483.50	E	Peak	70.28	71.89	-1.62	74.00	-3.72

Operation Mode :	802.11g	Test Date :	05/08/2016
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
2483.50	E	Average	41.17	42.79	-1.62	54.00	-12.83
2483.50	E	Peak	64.09	65.70	-1.62	74.00	-9.91

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CDD Mode:

Radiated Band Edge Measurement Result (802.11_HT20)

Operation Mode :	802.11n20	Test Date :	05/08/2016
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
2390.00	E	Average	45.83	47.57	-1.74	54.00	-8.17
2390.00	E	Peak	69.87	71.61	-1.74	74.00	-4.13

Operation Mode :	802.11n20	Test Date :	05/08/2016
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
2390.00	E	Average	44.14	45.88	-1.74	54.00	-9.86
2390.00	E	Peak	67.22	68.96	-1.74	74.00	-6.78

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Operation Mode : 802.11n20 Test Date : 05/08/2016
Fundamental Frequency : 2462 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Edward
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
2483.50	E	Average	46.16	47.78	-1.62	54.00	-7.84
2483.50	E	Peak	71.12	72.74	-1.62	74.00	-2.88

Operation Mode : 802.11n20 Test Date : 05/08/2016
Fundamental Frequency : 2462 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Edward
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
2483.50	E	Average	44.00	45.62	-1.62	54.00	-10.00
2483.50	E	Peak	65.94	67.56	-1.62	74.00	-8.06

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Radiated Band Edge Measurement Result (802.11_HT40)

Operation Mode :	802.11n40	Test Date :	05/08/2016
Fundamental Frequency :	2422 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
2385.96	S	Average	43.41	45.14	-1.73	54.00	-10.59
2385.96	S	Peak	71.10	72.83	-1.73	74.00	-2.90
2390.00	E	Average	43.46	45.20	-1.74	54.00	-10.54
2390.00	E	Peak	68.48	70.22	-1.74	74.00	-5.52

Operation Mode :	802.11n40	Test Date :	05/08/2016
Fundamental Frequency :	2422 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
2390.00	E	Average	41.62	43.36	-1.74	54.00	-12.38
2390.00	E	Peak	68.40	70.15	-1.74	74.00	-5.60

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Operation Mode : 802.11n40 Test Date : 05/08/2016
 Fundamental Frequency : 2452 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Edward
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
2483.50	E	Average	45.09	46.71	-1.62	54.00	-8.91
2483.50	E	Peak	69.32	70.93	-1.62	74.00	-4.68
2484.80	S	Average	45.08	46.70	-1.62	54.00	-8.92
2484.80	S	Peak	71.74	73.36	-1.62	74.00	-2.26

Operation Mode : 802.11n40 Test Date : 05/08/2016
 Fundamental Frequency : 2452 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Edward
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
2483.50	E	Average	43.33	44.95	-1.62	54.00	-10.67
2483.50	E	Peak	66.77	68.39	-1.62	74.00	-7.23

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Beam Forming Mode:

Radiated Band Edge Measurement Result (802.11_HT20)

Operation Mode :	802.11n20	Test Date :	07/06/2016
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
2390.00	E	Average	49.01	50.75	-1.74	54.00	-4.99
2390.00	E	Peak	64.66	66.40	-1.74	74.00	-9.34

Operation Mode :	802.11n20	Test Date :	07/06/2016
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
2390.00	E	Average	45.97	47.71	-1.74	54.00	-8.03
2390.00	E	Peak	63.28	65.03	-1.74	74.00	-10.72

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Operation Mode :	802.11n20	Test Date :	07/06/2016
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
2483.50	E	Average	46.44	48.06	-1.62	54.00	-7.56
2483.50	E	Peak	60.69	62.31	-1.62	74.00	-13.31

Operation Mode :	802.11n20	Test Date :	07/06/2016
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
2483.50	E	Average	44.25	45.87	-1.62	54.00	-9.75
2483.50	E	Peak	59.76	61.37	-1.62	74.00	-14.24

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Radiated Band Edge Measurement Result (802.11_HT40)

Operation Mode :	802.11n40	Test Date :	07/06/2016
Fundamental Frequency :	2422 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
2385.48	S	Average	50.39	52.12	-1.73	54.00	-3.61
2385.48	S	Peak	68.62	70.35	-1.73	74.00	-5.38
2390.00	E	Average	52.44	54.18	-1.74	54.00	-1.56
2390.00	E	Peak	65.97	67.71	-1.74	74.00	-8.03

Operation Mode :	802.11n40	Test Date :	07/06/2016
Fundamental Frequency :	2422 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
2390.00	E	Average	49.63	51.37	-1.74	54.00	-4.37
2390.00	E	Peak	65.95	67.70	-1.74	74.00	-8.05

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Operation Mode : 802.11n40 Test Date : 07/06/2016
 Fundamental Frequency : 2452 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Edward
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
2483.50	E	Average	49.02	50.64	-1.62	54.00	-4.98
2483.50	E	Peak	64.92	66.53	-1.62	74.00	-9.08
2484.40	S	Average	49.07	50.69	-1.62	54.00	-4.93
2484.40	S	Peak	67.38	69.00	-1.62	74.00	-6.62

Operation Mode : 802.11n40 Test Date : 07/06/2016
 Fundamental Frequency : 2452 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Edward
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
2483.50	E	Average	46.62	48.24	-1.62	54.00	-7.38
2483.50	E	Peak	61.45	63.06	-1.62	74.00	-12.55
2484.80	S	Average	46.98	48.60	-1.62	54.00	-7.02
2484.80	S	Peak	64.19	65.80	-1.62	74.00	-9.81

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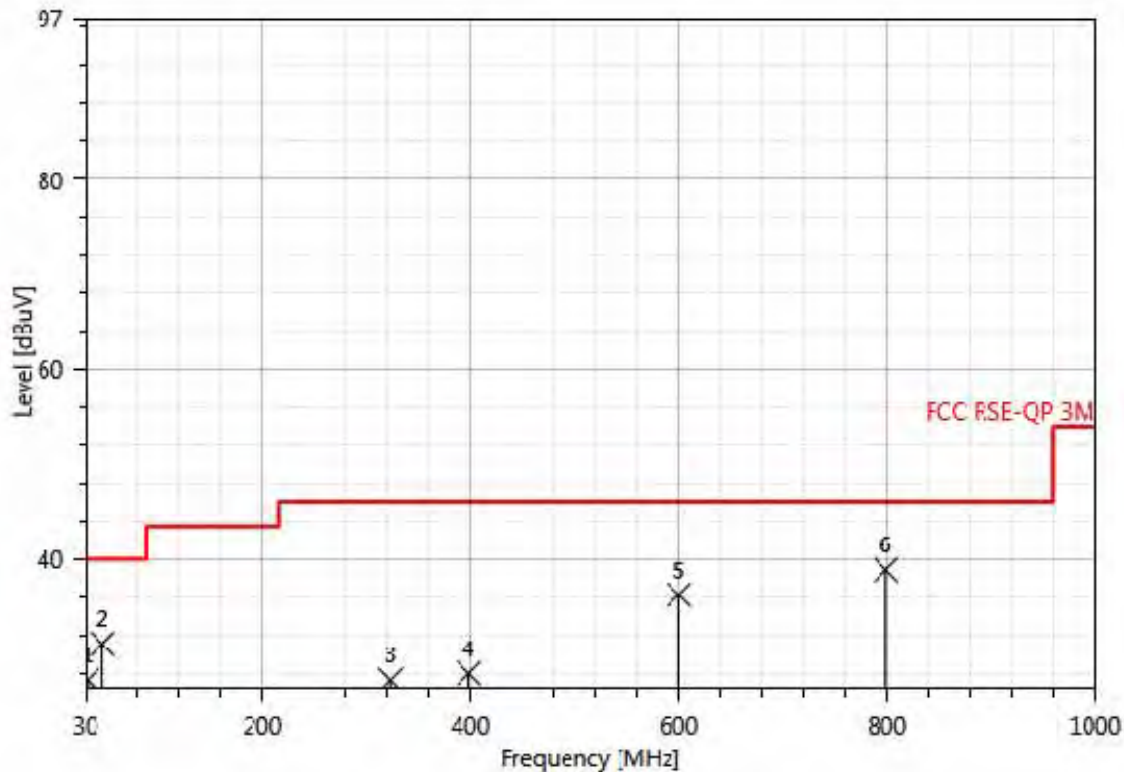
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Below 1GHz Worst-Case Data:

Radiated Spurious Emission Measurement Result (802.11 g)

Operation Mode :	802.11g	Test Date :	05/18/2016
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
31.94	S	Peak	27.30	36.41	-9.11	40.00	-12.70
46.49	S	Peak	31.11	39.02	-7.91	40.00	-8.89
322.94	S	Peak	27.29	32.80	-5.51	46.00	-18.71
398.60	S	Peak	28.02	31.99	-3.97	46.00	-17.98
600.36	S	Peak	36.27	36.41	-0.13	46.00	-9.73
799.21	S	Peak	38.90	35.76	3.14	46.00	-7.10

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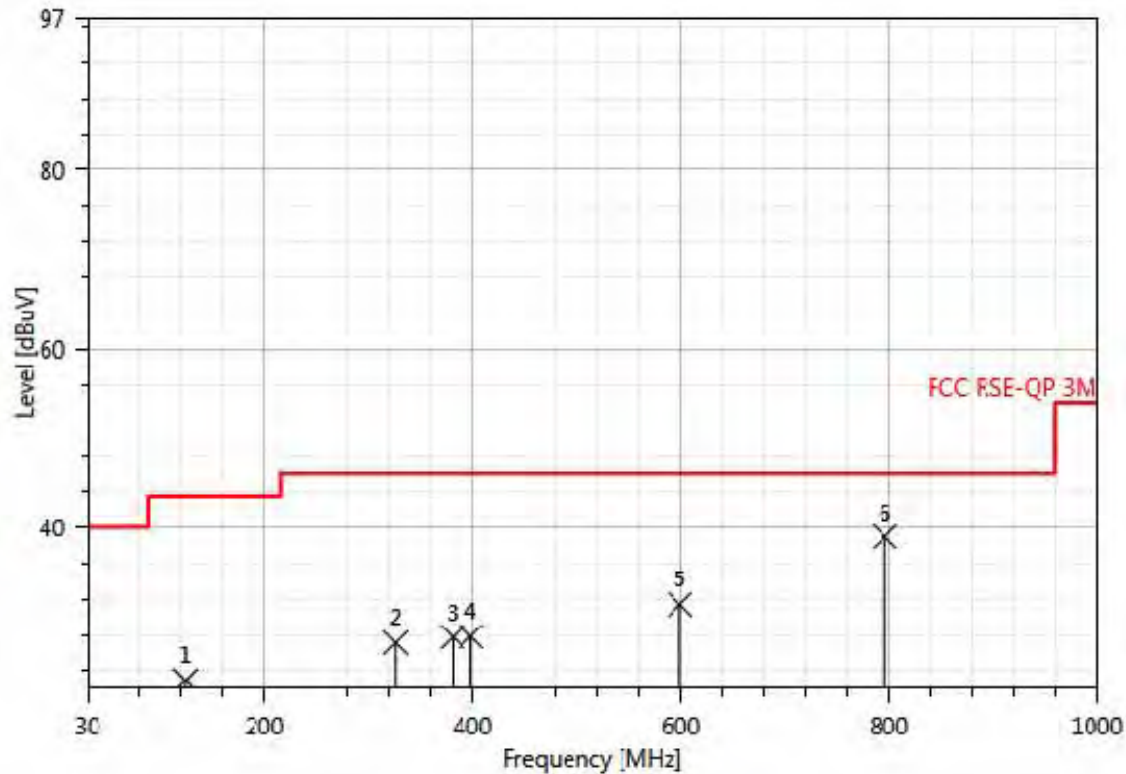
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Operation Mode :	802.11g	Test Date :	05/18/2016
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @ 3m dBuV/m	Margin dB
124.09	S	Peak	22.92	32.99	-10.06	43.50	-20.58
325.85	S	Peak	27.13	32.57	-5.43	46.00	-18.87
381.14	S	Peak	27.76	32.16	-4.41	46.00	-18.24
398.60	S	Peak	27.83	31.80	-3.97	46.00	-18.17
599.39	S	Peak	31.40	31.68	-0.28	46.00	-14.60
796.30	S	Peak	38.96	35.95	3.01	46.00	-7.04

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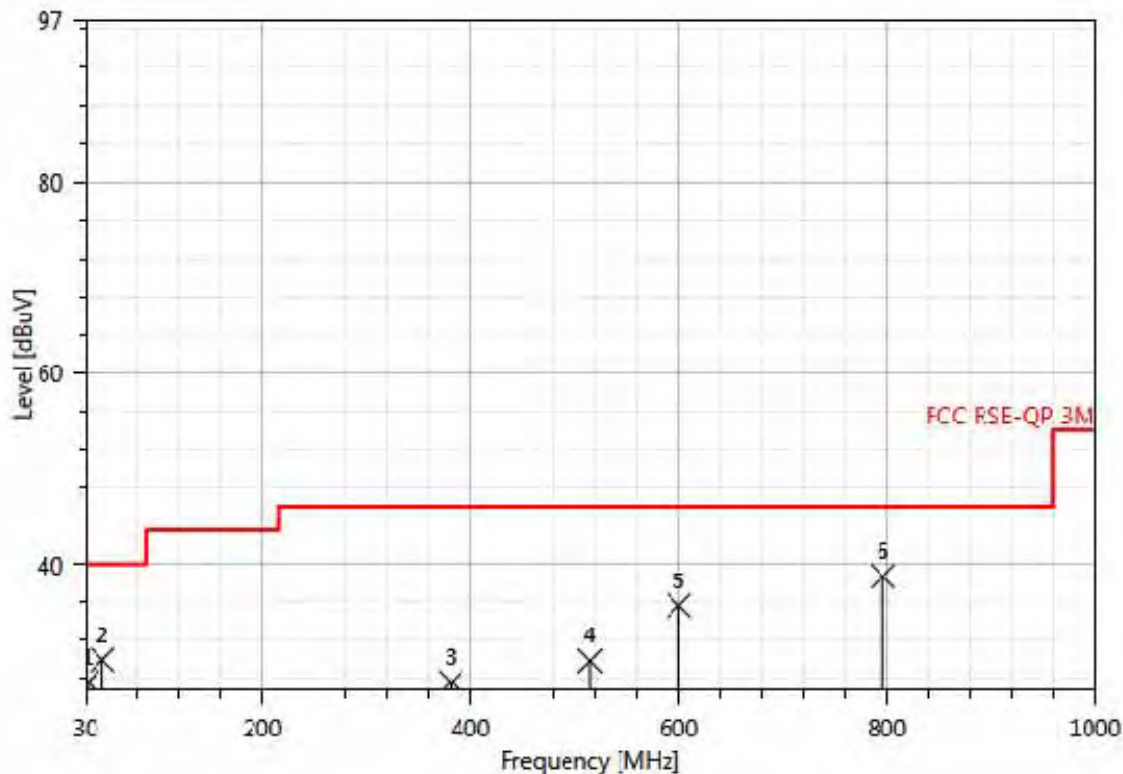
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Operation Mode :	802.11g	Test Date :	05/18/2016
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @ 3m dBuV/m	Margin dB
31.94	S	Peak	27.60	36.71	-9.11	40.00	-12.40
46.49	S	Peak	29.96	37.87	-7.91	40.00	-10.04
381.14	S	Peak	27.61	32.02	-4.41	46.00	-18.39
515.00	S	Peak	29.85	31.79	-1.94	46.00	-16.15
600.36	S	Peak	35.65	35.78	-0.13	46.00	-10.35
796.30	S	Peak	38.71	35.70	3.01	46.00	-7.29

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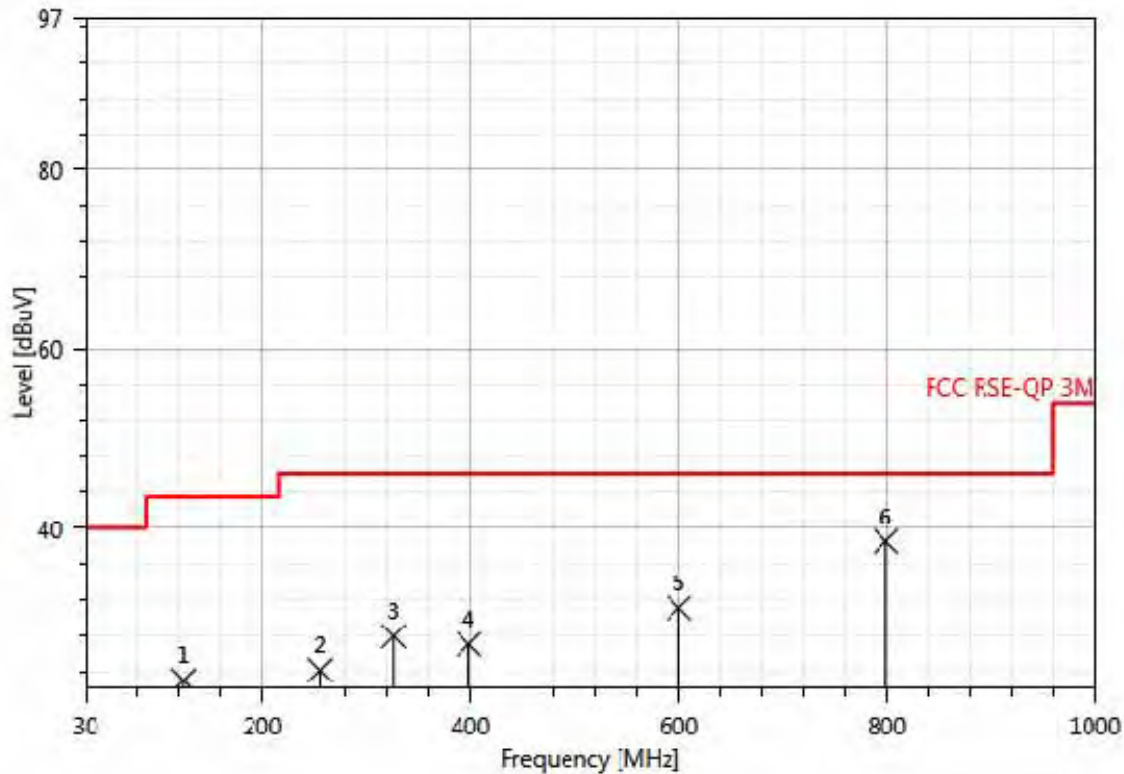
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Operation Mode :	802.11g	Test Date :	05/18/2016
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @ 3m dBuV/m	Margin dB
124.09	S	Peak	23.01	33.07	-10.06	43.50	-20.49
256.01	S	Peak	24.16	31.66	-7.50	46.00	-21.84
325.85	S	Peak	27.92	33.35	-5.43	46.00	-18.08
398.60	S	Peak	27.04	31.01	-3.97	46.00	-18.96
600.36	S	Peak	31.11	31.25	-0.13	46.00	-14.89
799.21	S	Peak	38.53	35.39	3.14	46.00	-7.47

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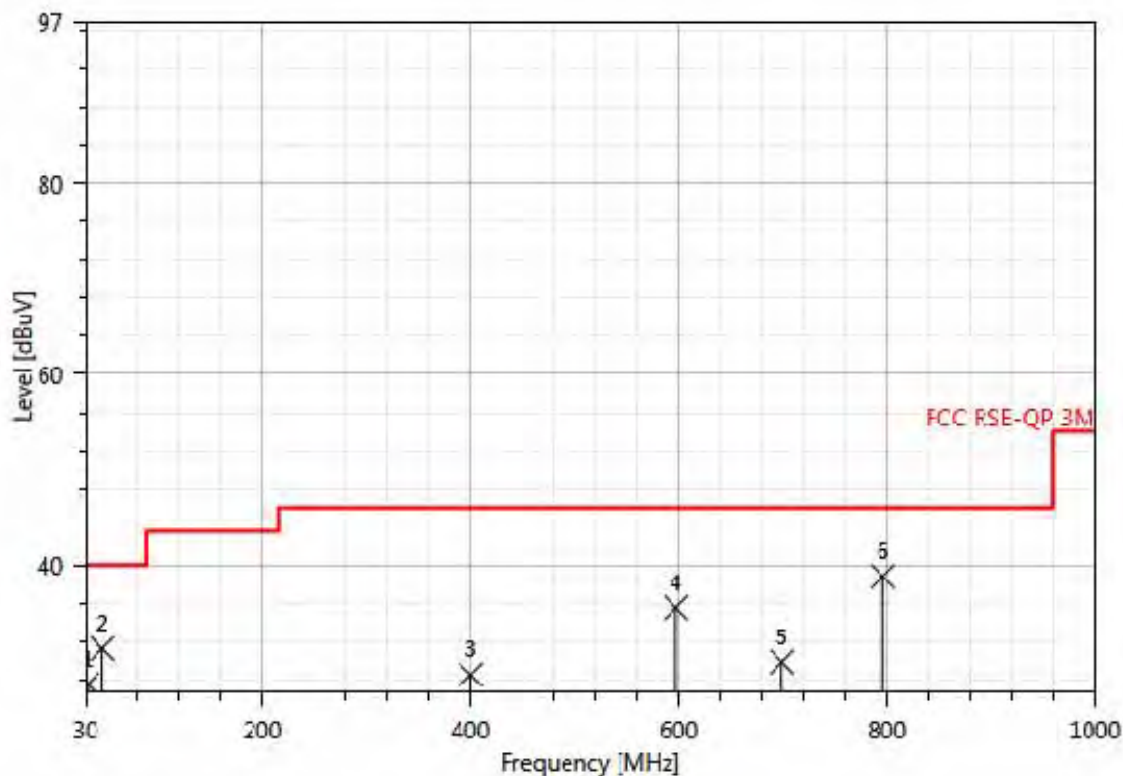
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Operation Mode :	802.11g	Test Date :	05/18/2016
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @ 3m dBuV/m	Margin dB
31.94	S	Peak	27.47	36.59	-9.11	40.00	-12.53
46.49	S	Peak	31.22	39.13	-7.91	40.00	-8.78
400.54	S	Peak	28.49	32.42	-3.94	46.00	-17.51
597.45	S	Peak	35.52	35.70	-0.19	46.00	-10.48
699.30	S	Peak	29.82	28.38	1.44	46.00	-16.18
796.30	S	Peak	38.81	35.80	3.01	46.00	-7.19

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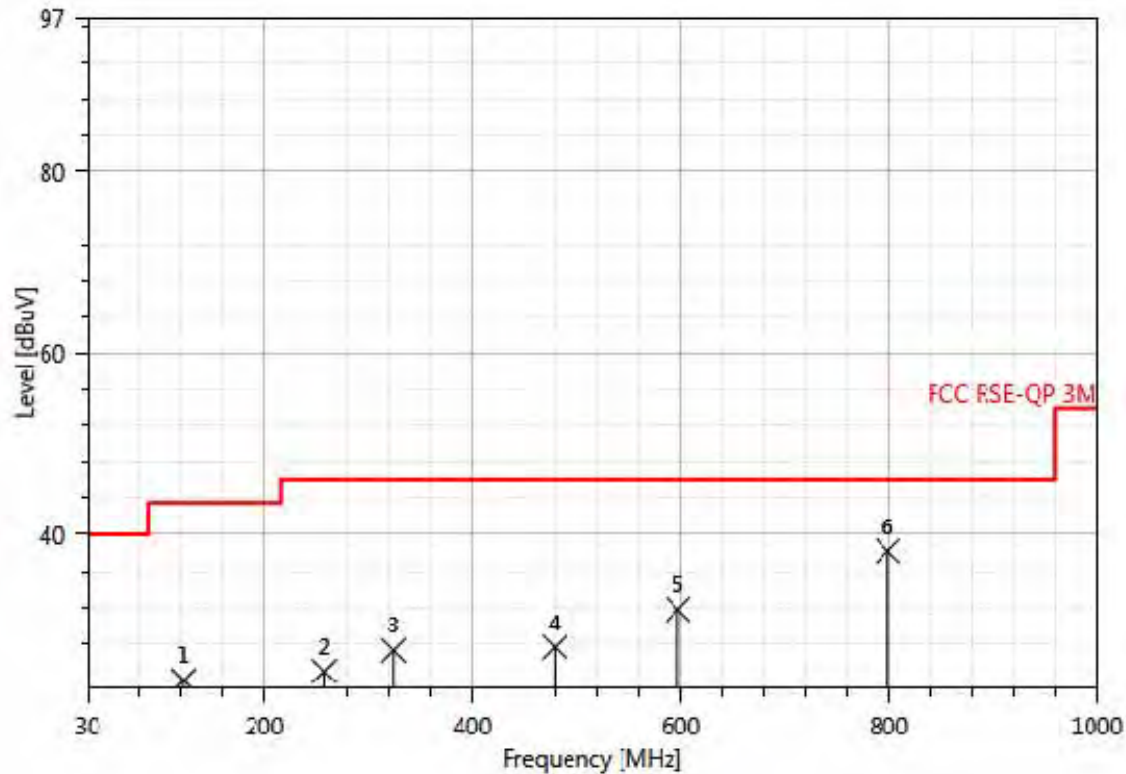
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Operation Mode :	802.11g	Test Date :	05/18/2016
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @ 3m dBuV/m	Margin dB
122.15	S	Peak	23.92	34.17	-10.25	43.50	-19.58
257.95	S	Peak	24.93	32.30	-7.38	46.00	-21.07
323.91	S	Peak	27.22	32.70	-5.48	46.00	-18.78
479.11	S	Peak	27.57	29.96	-2.39	46.00	-18.43
597.45	S	Peak	31.74	31.93	-0.19	46.00	-14.26
799.21	S	Peak	38.20	35.06	3.14	46.00	-7.80

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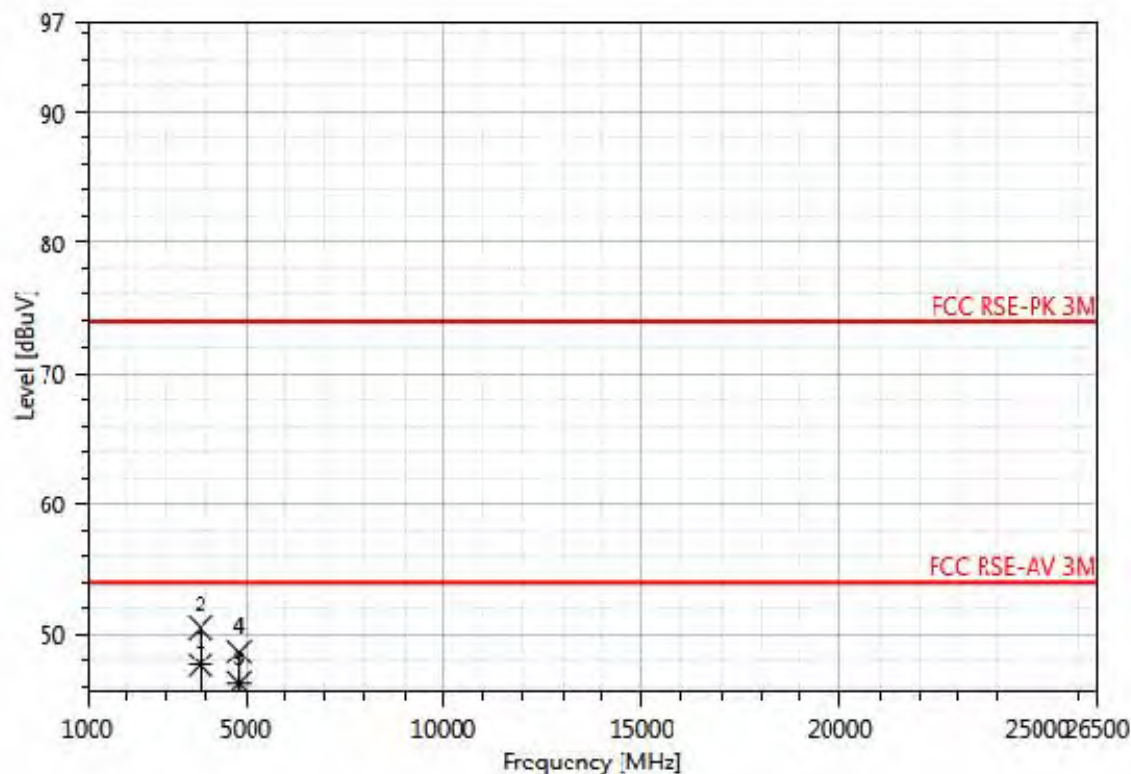
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Above 1GHz Data:

Radiated Spurious Emission Measurement Result (802.11 b)

Operation Mode :	802.11b	Test Date :	05/18/2016
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @ 3m dBuV/m	Margin dB
3856.00	S	Average	47.70	45.46	2.24	54.00	-6.30
3856.00	S	Peak	50.52	48.28	2.24	74.00	-23.48
4824.00	H	Average	46.29	41.35	4.94	54.00	-7.71
4824.00	H	Peak	48.70	43.76	4.94	74.00	-25.30

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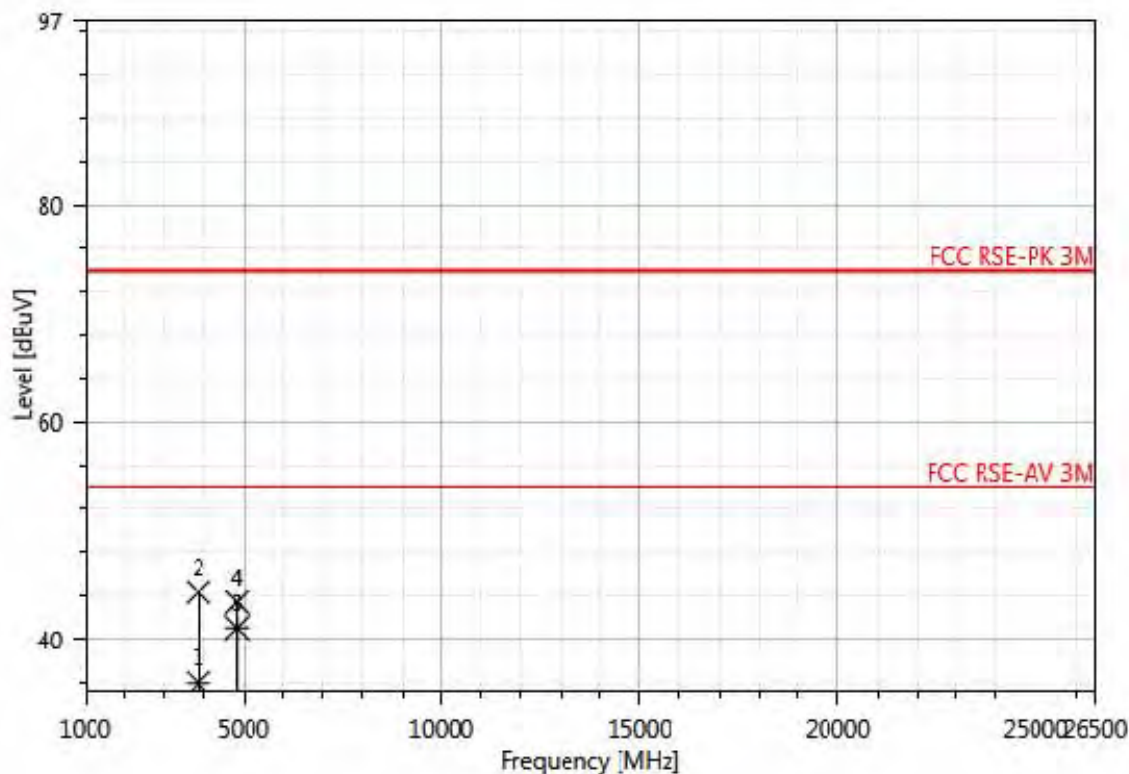
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Operation Mode :	802.11b	Test Date :	05/18/2016
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
3856.00	S	Average	35.97	33.73	2.24	54.00	-18.03
3856.00	S	Peak	44.34	42.09	2.24	74.00	-29.66
4824.00	H	Average	41.04	36.10	4.94	54.00	-12.96
4824.00	H	Peak	43.39	38.45	4.94	74.00	-30.61

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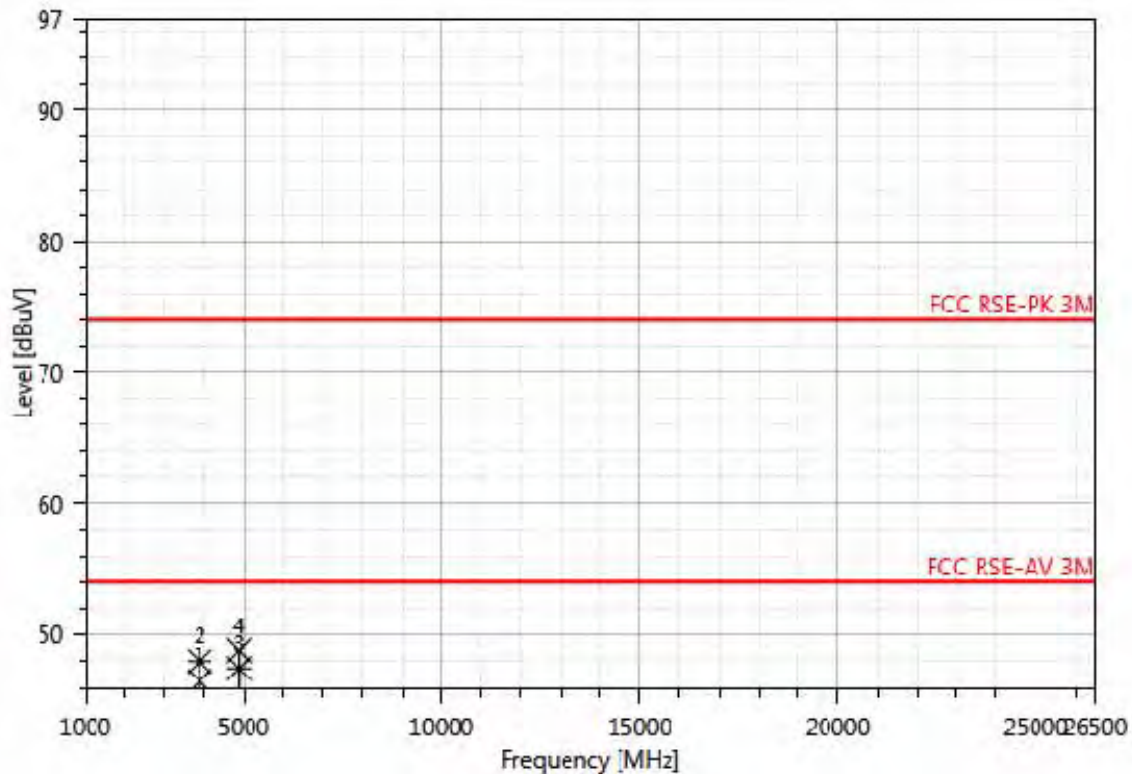
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Operation Mode :	802.11b	Test Date :	05/18/2016
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
3891.00	S	Average	47.95	45.59	2.36	54.00	-6.05
3891.00	S	Peak	46.43	44.07	2.36	74.00	-27.57
4874.00	H	Average	47.41	42.28	5.13	54.00	-6.59
4874.00	H	Peak	48.78	43.65	5.13	74.00	-25.22

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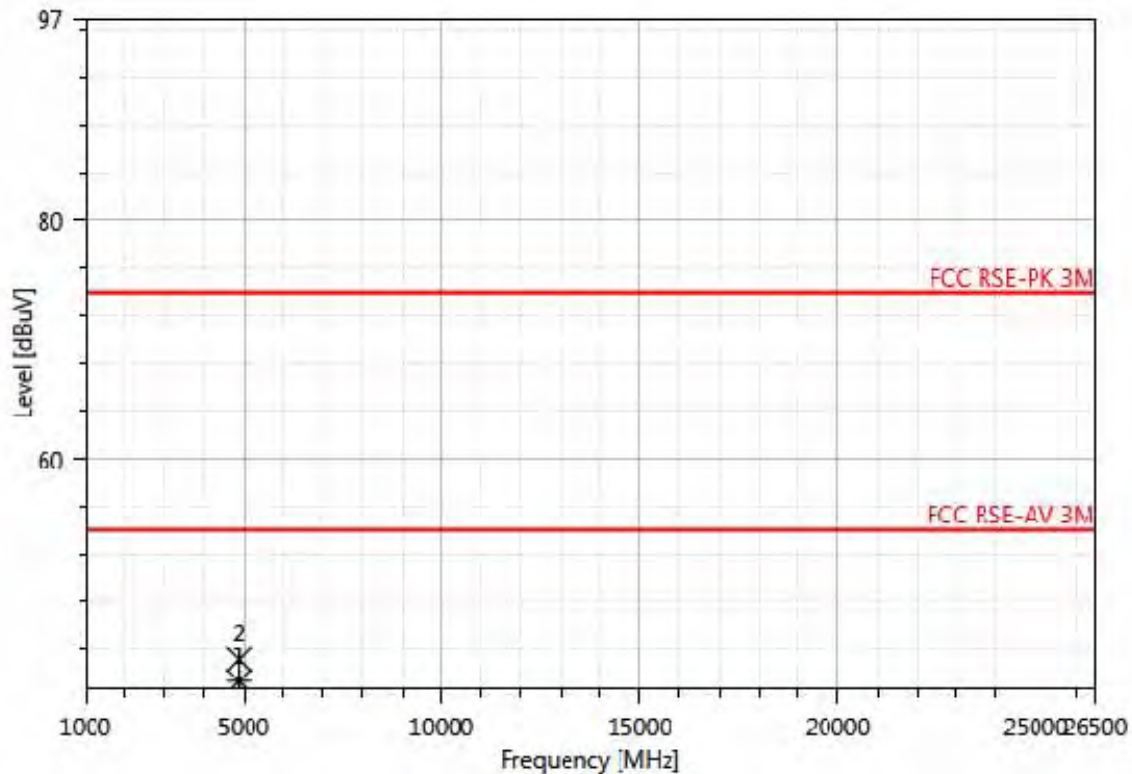
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Operation Mode :	802.11b	Test Date :	05/18/2016
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4874.00	S	Average	41.30	36.17	5.13	54.00	-12.70
4874.00	S	Peak	43.16	38.03	5.13	74.00	-30.84

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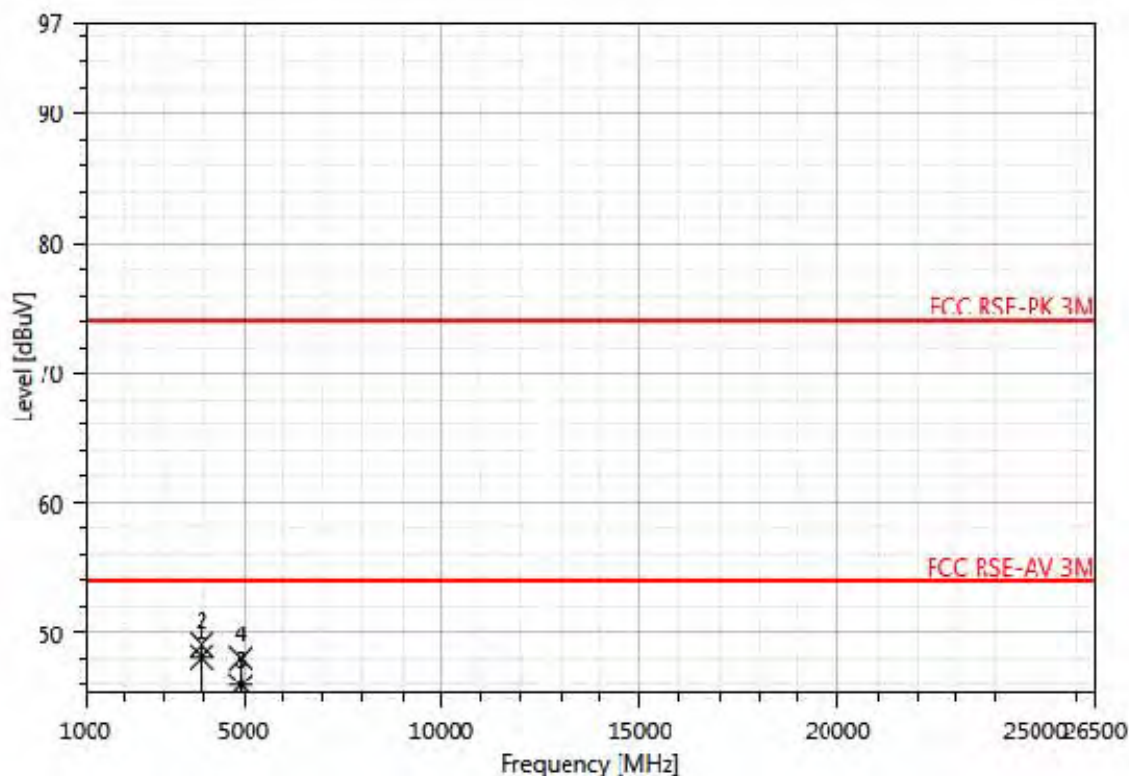
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Operation Mode :	802.11b	Test Date :	05/18/2016
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
3940.00	S	Average	48.15	45.80	2.35	54.00	-5.85
3940.00	S	Peak	49.09	46.74	2.35	74.00	-24.91
4924.00	H	Average	46.00	40.75	5.25	54.00	-8.00
4924.00	H	Peak	48.07	42.82	5.25	74.00	-25.93

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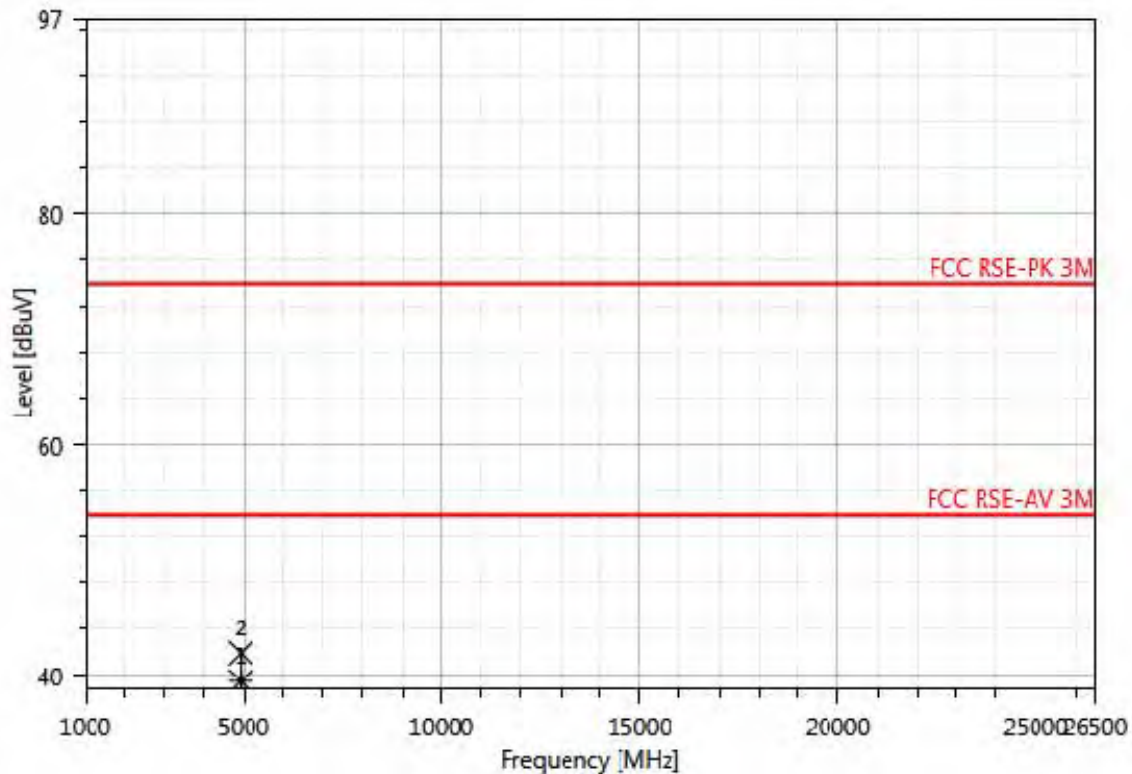
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Operation Mode :	802.11b	Test Date :	05/18/2016
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4924.00	S	Average	39.51	34.26	5.25	54.00	-14.49
4924.00	S	Peak	41.95	36.70	5.25	74.00	-32.05

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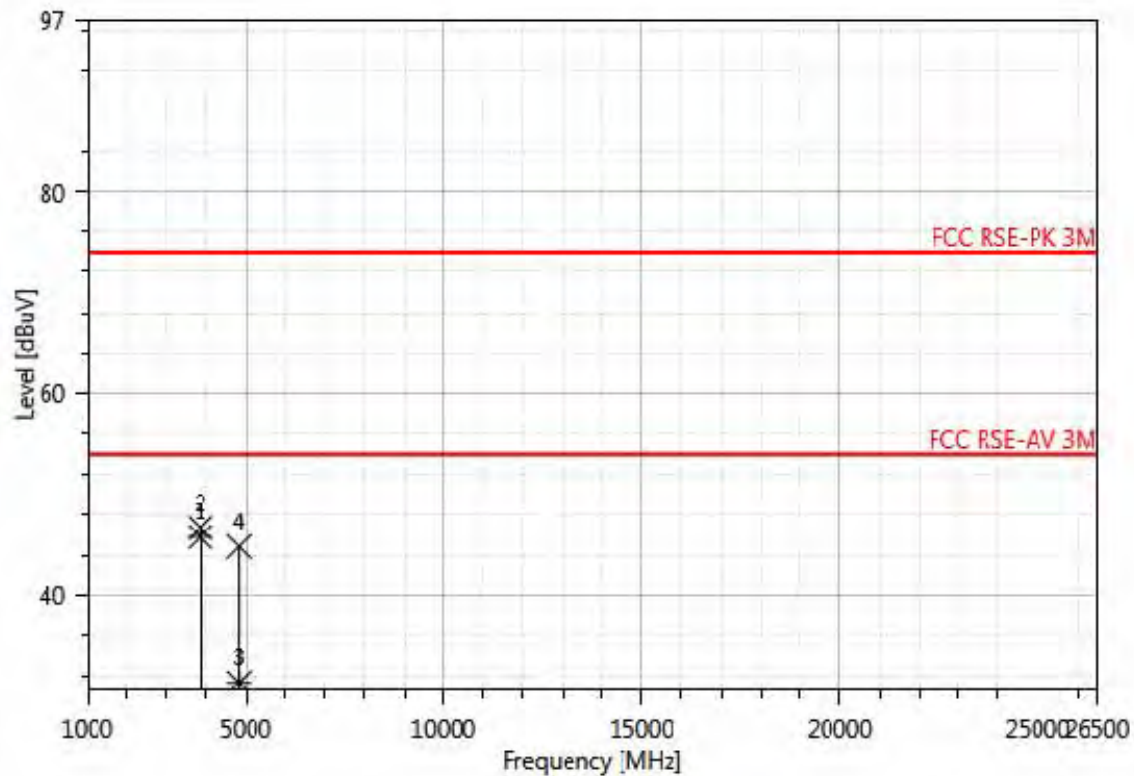
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Radiated Spurious Emission Measurement Result (802.11 g)

Operation Mode :	802.11g	Test Date :	05/18/2016
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBuV/m	dBuV/m	dB	dBuV/m	dB
3856.00	S	Average	45.80	43.56	2.24	54.00	-8.20
3856.00	S	Peak	46.69	44.45	2.24	74.00	-27.31
4824.00	H	Average	31.37	26.43	4.94	54.00	-22.63
4824.00	H	Peak	44.84	39.90	4.94	74.00	-29.16

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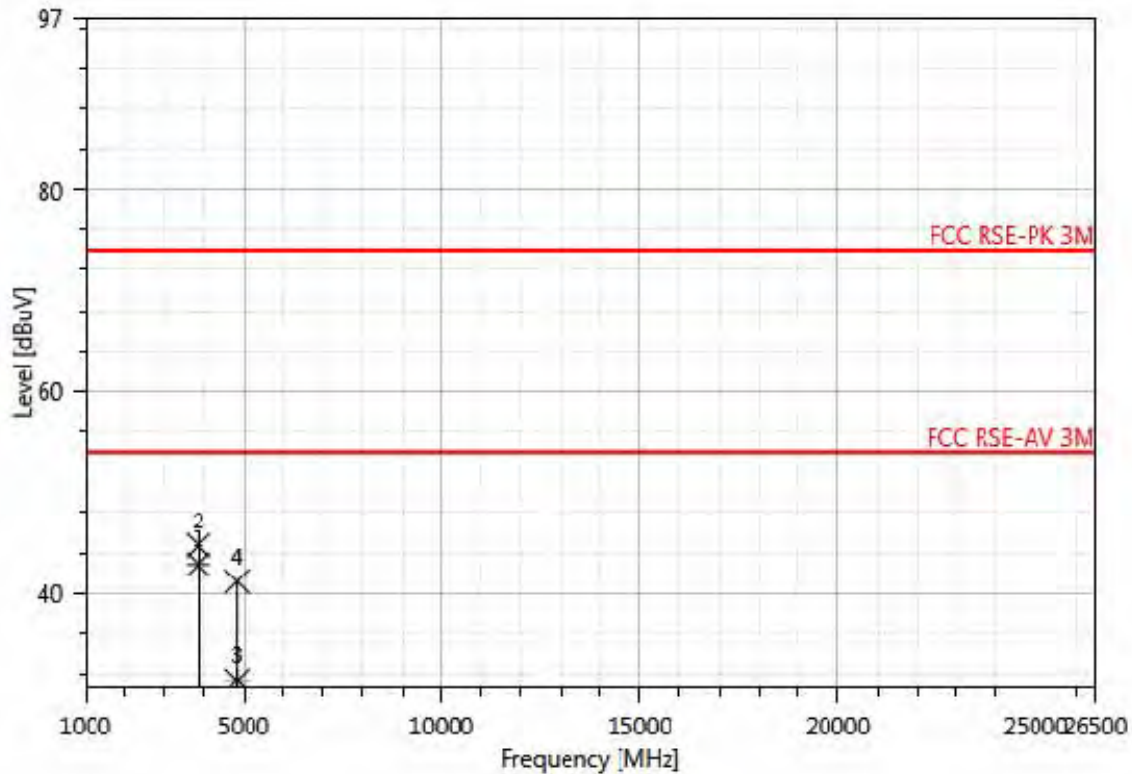
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Operation Mode : 802.11g Test Date : 05/18/2016
Fundamental Frequency : 2412 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Edward
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
3856.00	S	Average	42.85	40.61	2.24	54.00	-11.15
3856.00	S	Peak	44.74	42.49	2.24	74.00	-29.26
4824.00	H	Average	31.37	26.43	4.94	54.00	-22.63
4824.00	H	Peak	41.18	36.24	4.94	74.00	-32.82

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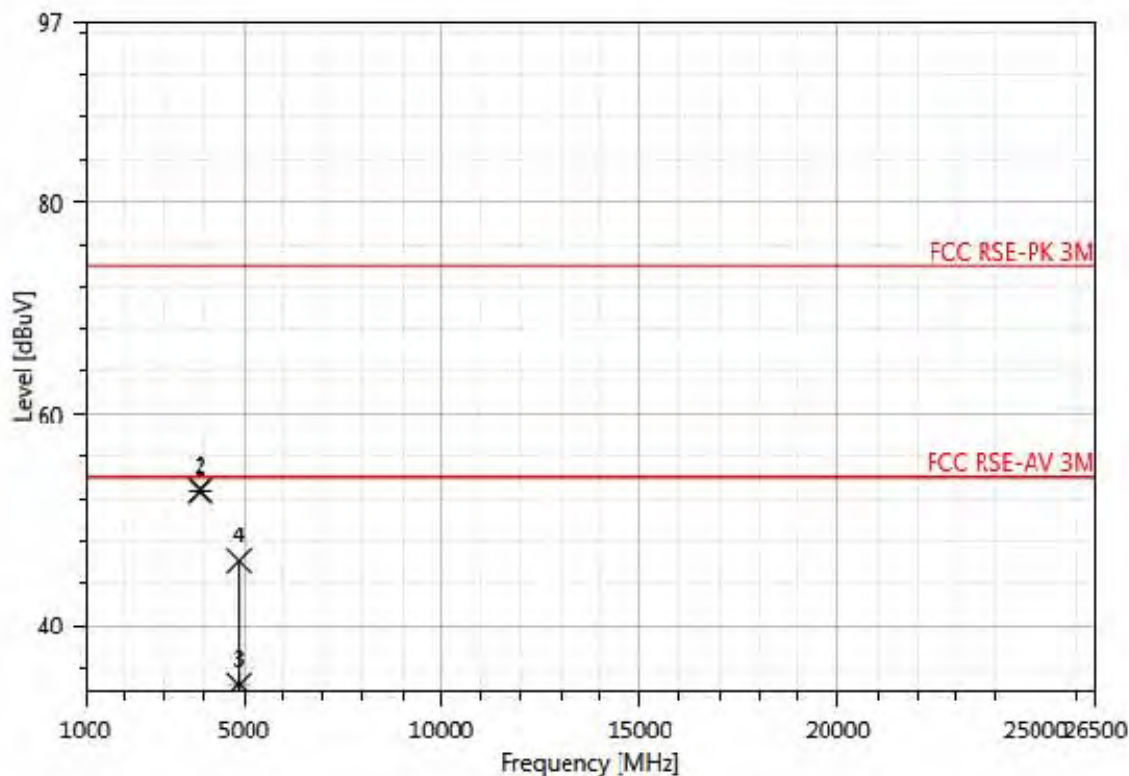
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Operation Mode :	802.11g	Test Date :	05/18/2016
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
3905.00	S	Average	52.68	50.30	2.38	54.00	-1.32
3905.00	S	Peak	52.79	50.42	2.38	74.00	-21.21
4874.00	H	Average	34.48	29.35	5.13	54.00	-19.52
4874.00	H	Peak	46.16	41.03	5.13	74.00	-27.84

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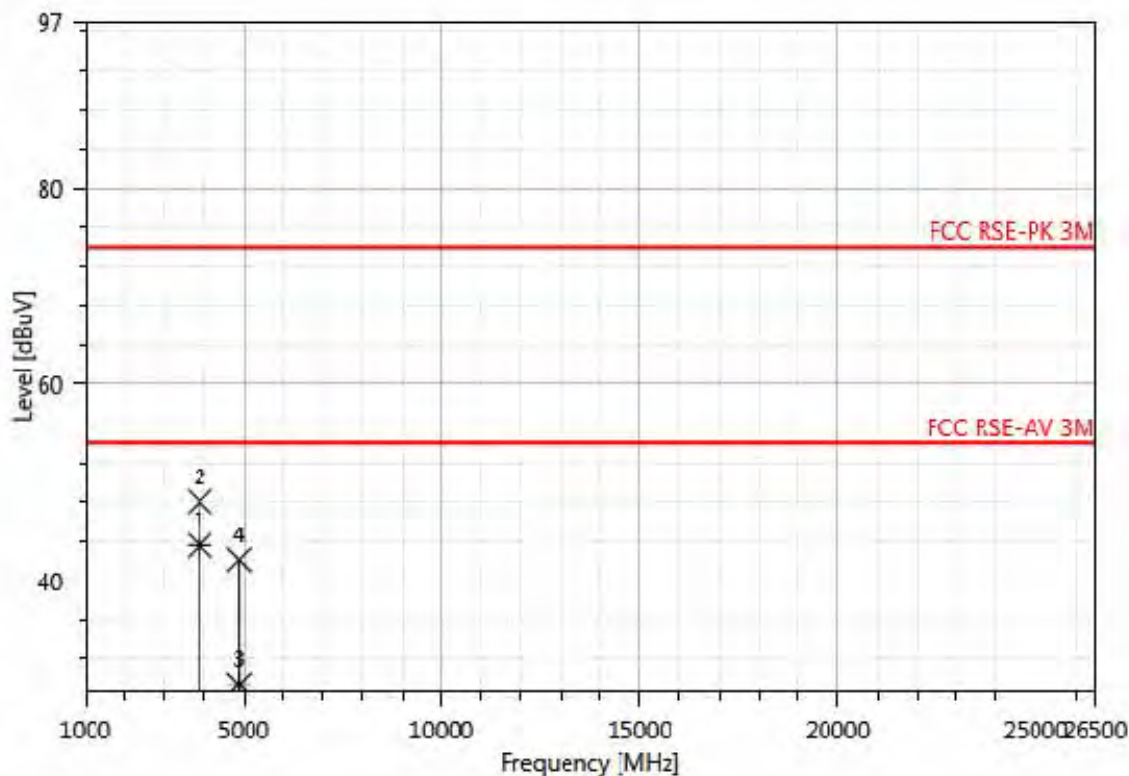
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Operation Mode :	802.11g	Test Date :	05/18/2016
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
3891.00	S	Average	43.54	41.18	2.36	54.00	-10.46
3891.00	S	Peak	48.02	45.66	2.36	74.00	-25.98
4874.00	H	Average	29.36	24.23	5.13	54.00	-24.64
4874.00	H	Peak	42.09	36.96	5.13	74.00	-31.91

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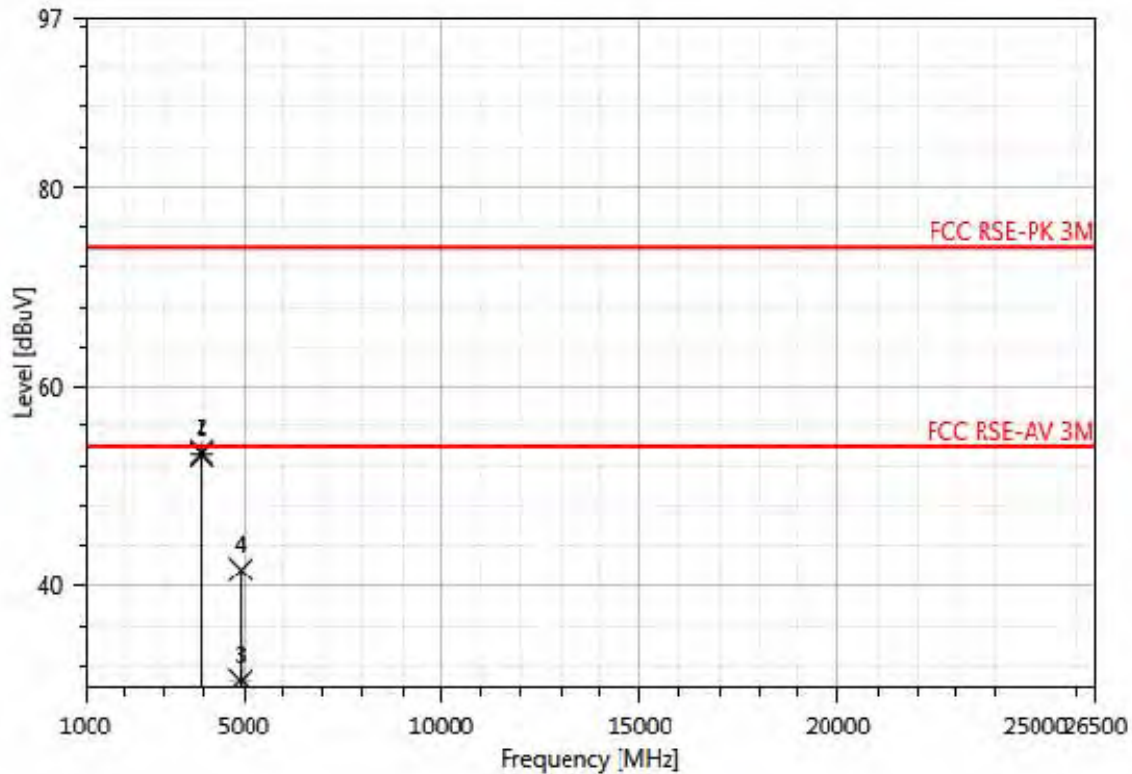
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Operation Mode : 802.11g Test Date : 05/18/2016
Fundamental Frequency : 2462 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH HIGH Test Engineer : Edward
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBuV/m	dBuV/m	dB	dBuV/m	dB
3940.00	S	Average	53.21	50.86	2.35	54.00	-0.79
3940.00	S	Peak	53.44	51.08	2.35	74.00	-20.56
4924.00	H	Average	30.51	25.26	5.25	54.00	-23.49
4924.00	H	Peak	41.62	36.36	5.25	74.00	-32.38

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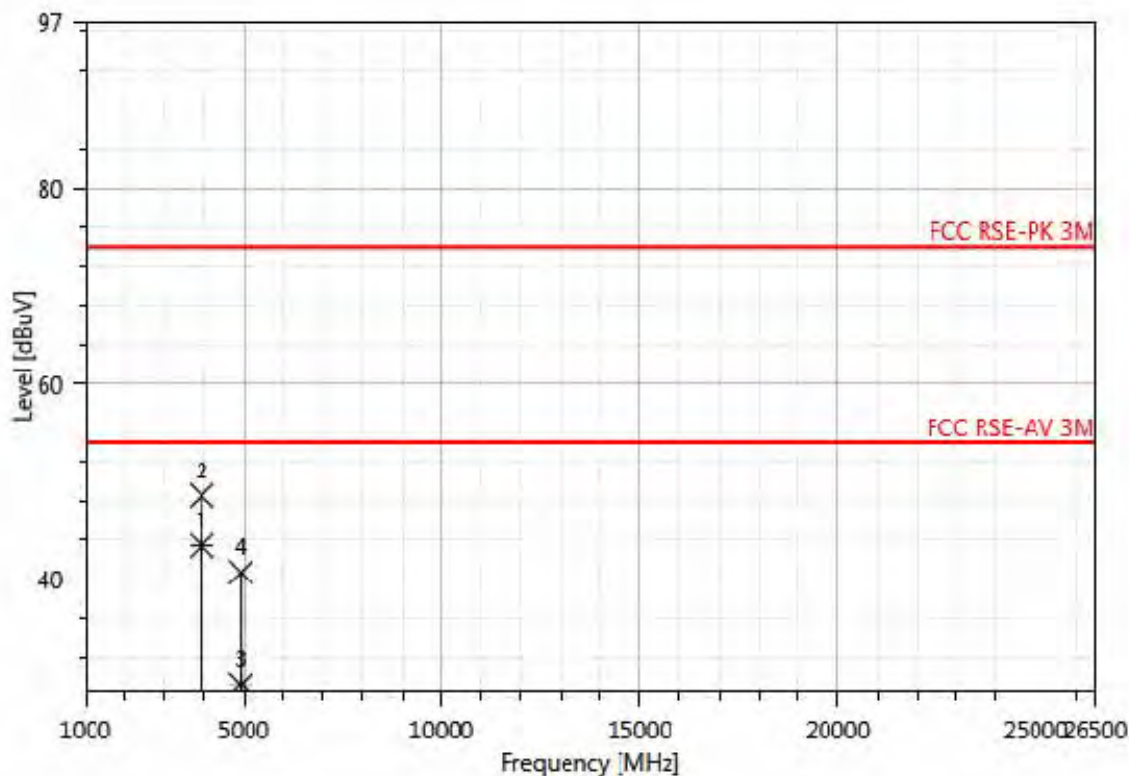
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Operation Band :	Tx CH HIGH	Test Engineer :	Edward
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Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
3940.00	S	Average	43.44	41.09	2.35	54.00	-10.56
3940.00	S	Peak	48.58	46.22	2.35	74.00	-25.42
4924.00	H	Average	29.29	24.04	5.25	54.00	-24.71
4924.00	H	Peak	40.74	35.49	5.25	74.00	-33.26

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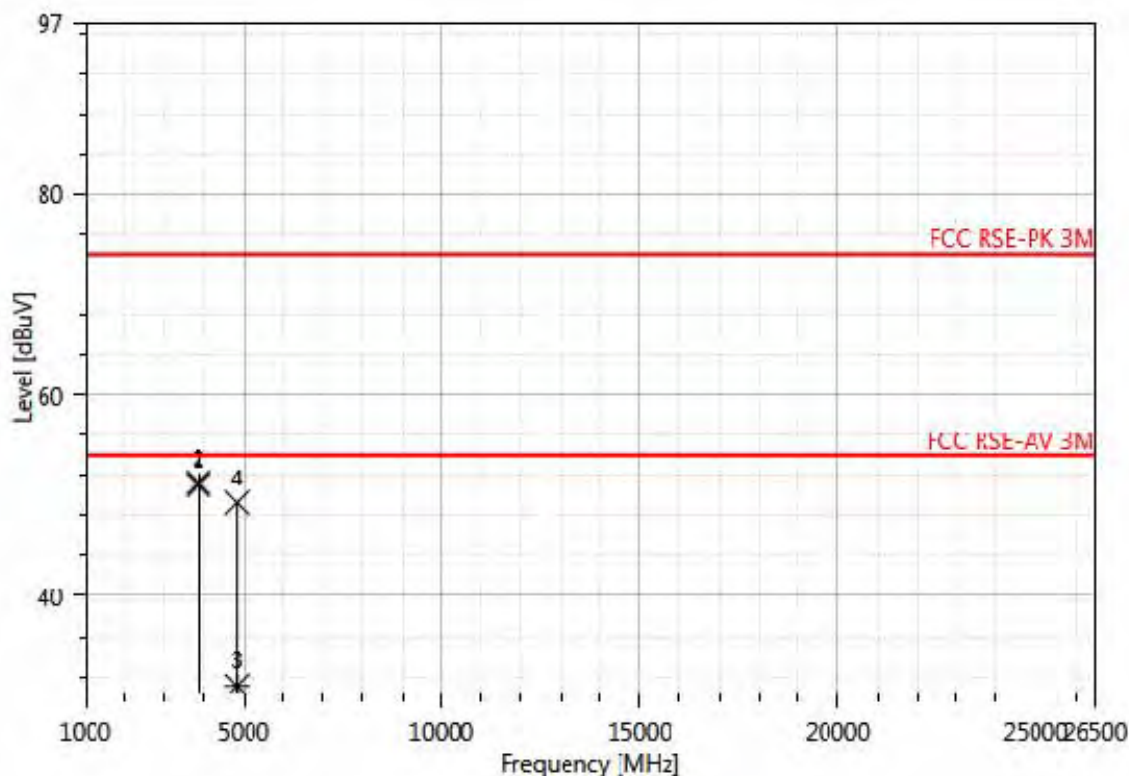
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CDD Mode:

Radiated Spurious Emission Measurement Result (802.11_HT20)

Operation Mode :	802.11n20	Test Date :	05/18/2016
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBuV/m	dBuV/m	dB	dBuV/m	dB
3856.00	S	Average	51.02	48.78	2.24	54.00	-2.98
3856.00	S	Peak	51.29	49.05	2.24	74.00	-22.71
4824.00	H	Average	31.08	26.14	4.94	54.00	-22.92
4824.00	H	Peak	49.28	44.34	4.94	74.00	-24.72

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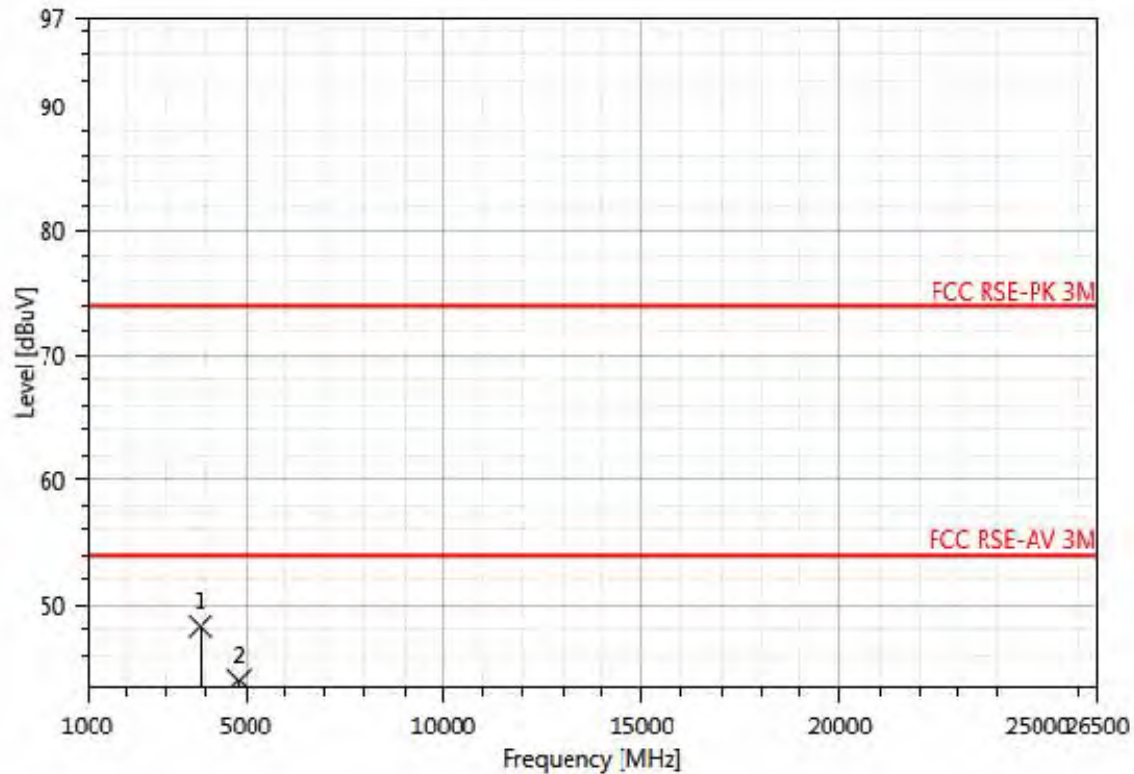
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Operation Mode :	802.11n20	Test Date :	05/18/2016
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
3856.00	S	Peak	48.30	46.06	2.24	74.00	-25.70
4824.00	S	Peak	44.00	39.06	4.94	74.00	-30.00

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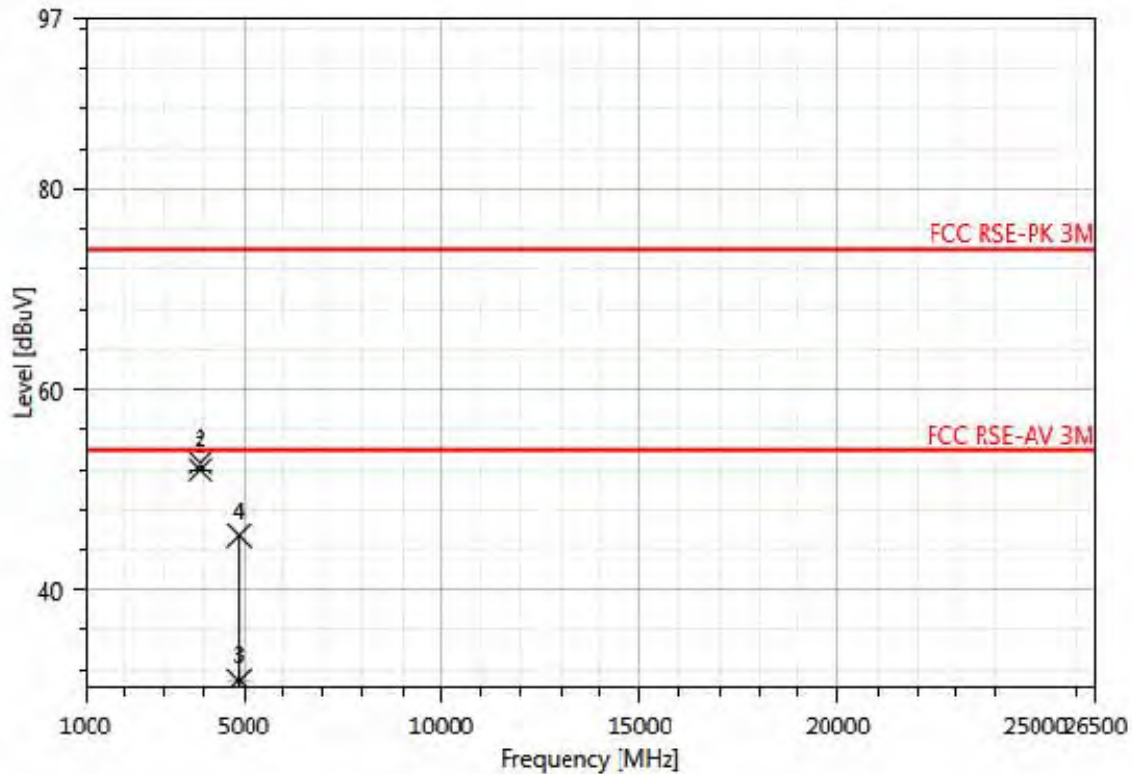
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Operation Mode :	802.11n20	Test Date :	05/18/2016
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
3905.00	S	Average	52.01	49.63	2.38	54.00	-1.99
3905.00	S	Peak	52.68	50.30	2.38	74.00	-21.32
4874.00	H	Average	31.05	25.92	5.13	54.00	-22.95
4874.00	H	Peak	45.43	40.29	5.13	74.00	-28.57

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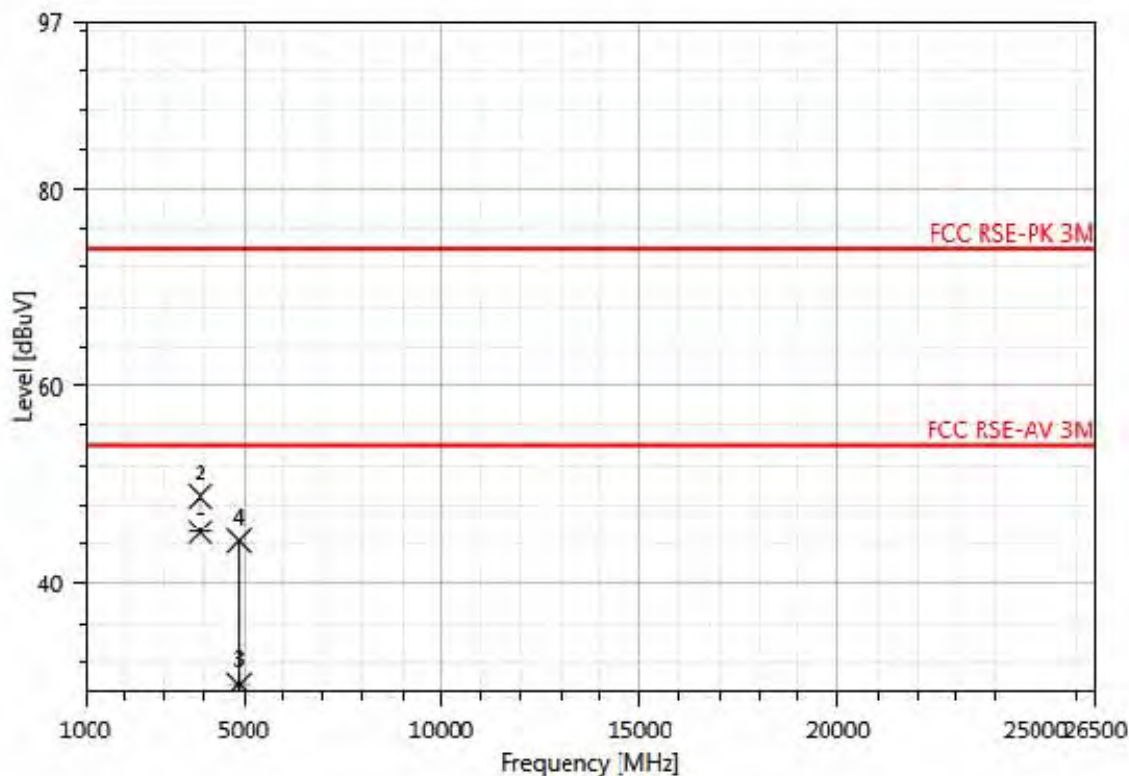
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Operation Mode : 802.11n20
Fundamental Frequency : 2437 MHz
Operation Band : Tx CH MID
EUT Pol. : E2 Plane

Test Date : 05/18/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Edward
Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBuV/m	dBuV/m	dB	dBuV/m	dB
3905.00	S	Average	45.24	42.86	2.38	54.00	-8.76
3905.00	S	Peak	48.80	46.43	2.38	74.00	-25.20
4874.00	H	Average	29.76	24.63	5.13	54.00	-24.24
4874.00	H	Peak	44.30	39.17	5.13	74.00	-29.70

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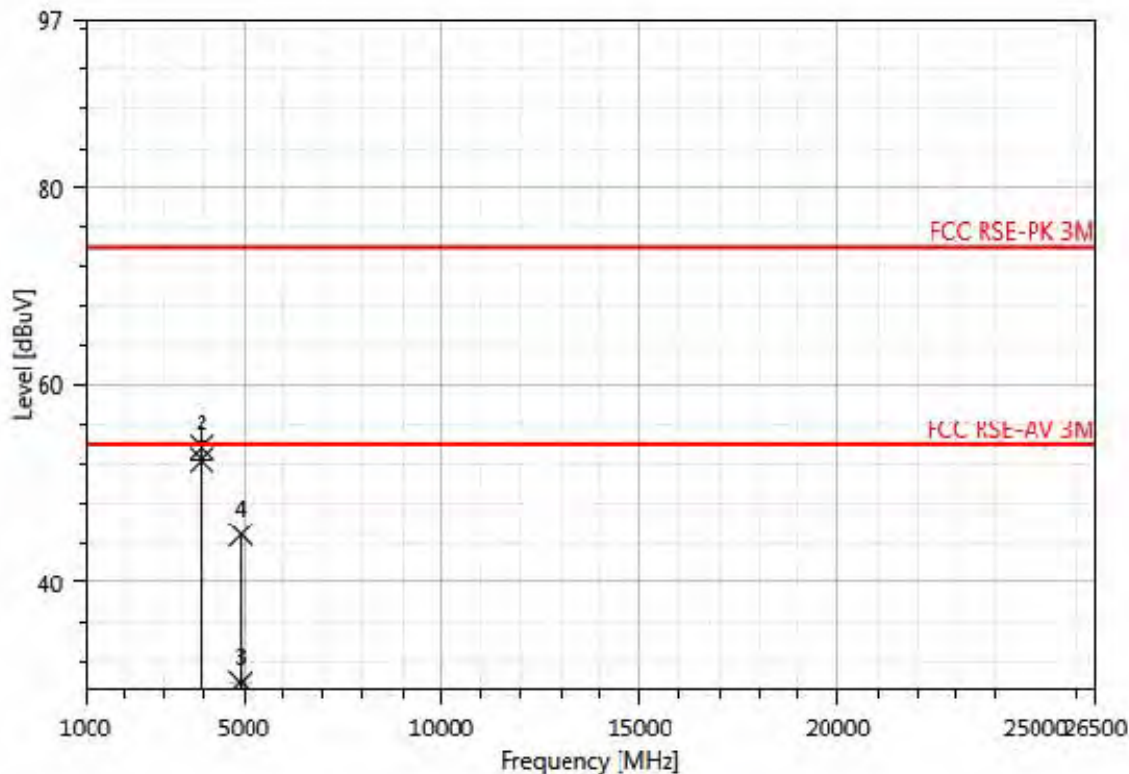
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Operation Mode :	802.11n20	Test Date :	05/18/2016
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBuV/m	dBuV/m	dB	dBuV/m	dB
3940.00	S	Average	52.47	50.12	2.35	54.00	-1.53
3940.00	S	Peak	53.71	51.36	2.35	74.00	-20.29
4924.00	H	Average	29.89	24.64	5.25	54.00	-24.11
4924.00	H	Peak	44.86	39.60	5.25	74.00	-29.14

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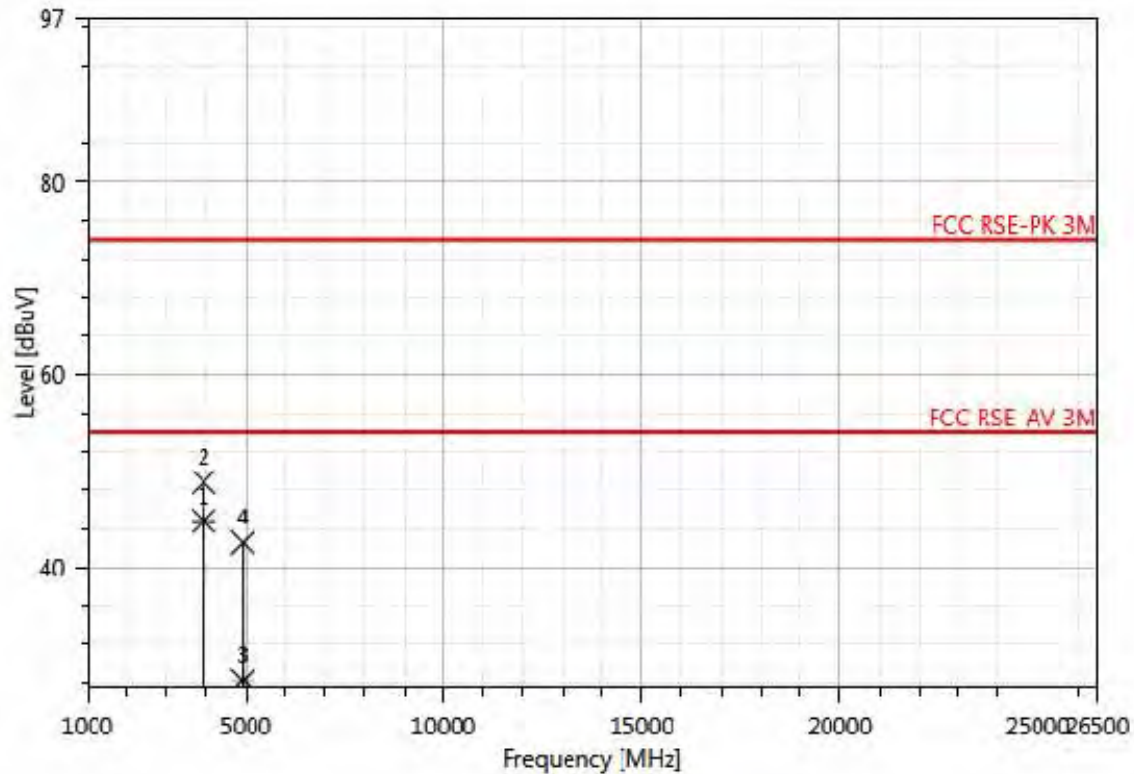
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Operation Mode :	802.11n20	Test Date :	05/12/2016 16:00:42
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
3940.00	S	Average	44.81	42.46	2.35	54.00	-9.19
3940.00	S	Peak	48.84	46.48	2.35	74.00	-25.16
4924.00	H	Average	28.28	23.03	5.25	54.00	-25.72
4924.00	H	Peak	42.55	37.30	5.25	74.00	-31.45

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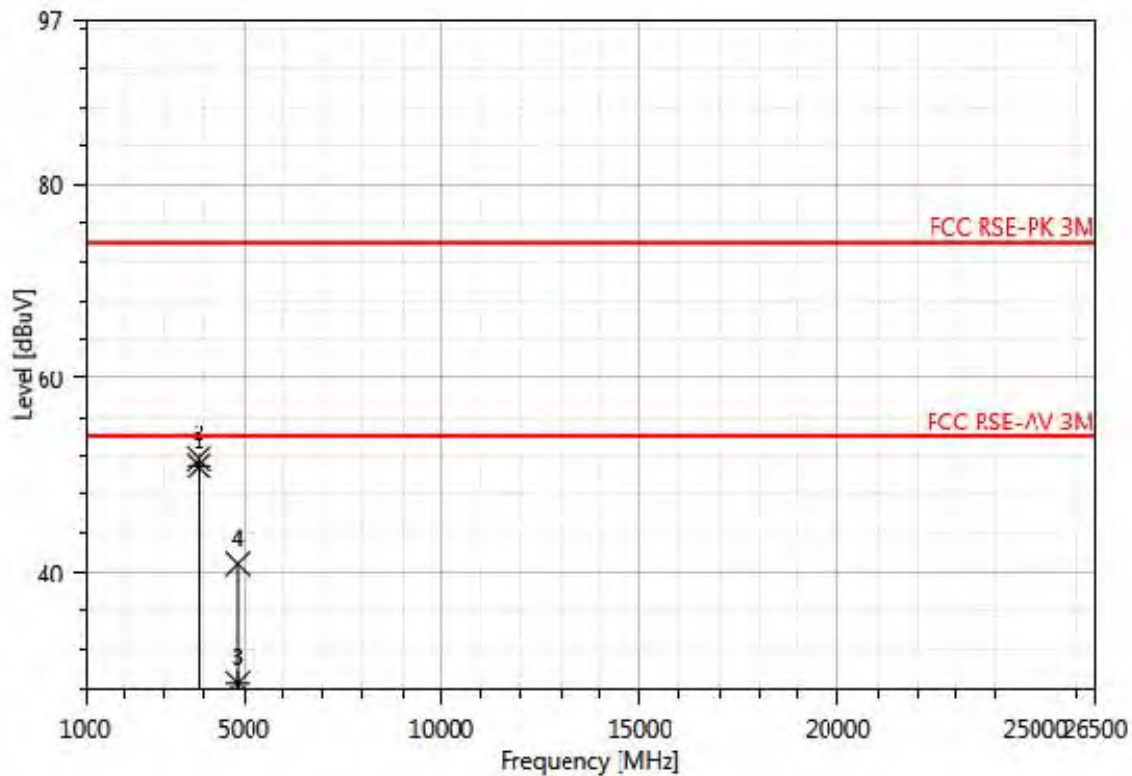
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Radiated Spurious Emission Measurement Result (802.11_HT40)

Operation Mode :	802.11n40	Test Date :	05/18/2016
Fundamental Frequency :	2422 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @ 3m dBuV/m	Margin dB
3870.00	S	Average	51.00	48.70	2.30	54.00	-3.00
3870.00	S	Peak	51.71	49.41	2.30	74.00	-22.29
4844.00	H	Average	28.59	23.62	4.97	54.00	-25.41
4844.00	H	Peak	40.86	35.89	4.97	74.00	-33.14

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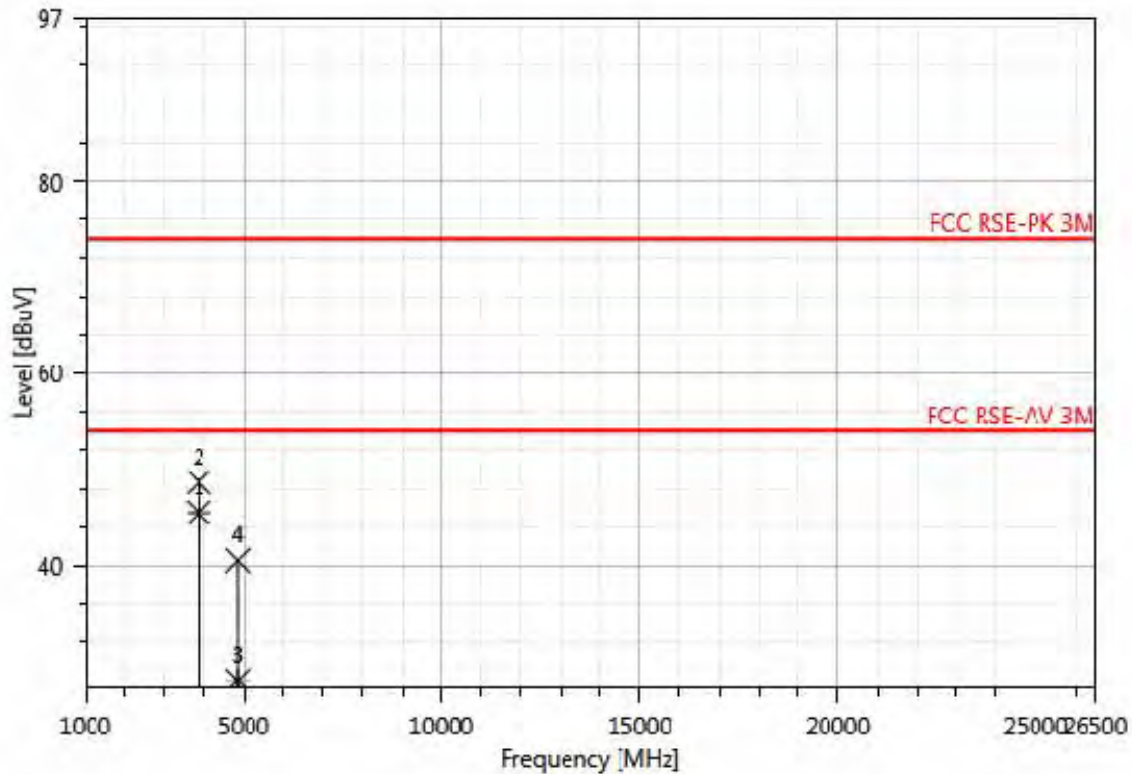
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Operation Mode :	802.11n40	Test Date :	05/18/2016
Fundamental Frequency :	2422 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBuV/m	dBuV/m	dB	dBuV/m	dB
3870.00	S	Average	45.52	43.22	2.30	54.00	-8.48
3870.00	S	Peak	48.68	46.38	2.30	74.00	-25.32
4844.00	H	Average	28.06	23.09	4.97	54.00	-25.94
4844.00	H	Peak	40.56	35.59	4.97	74.00	-33.44

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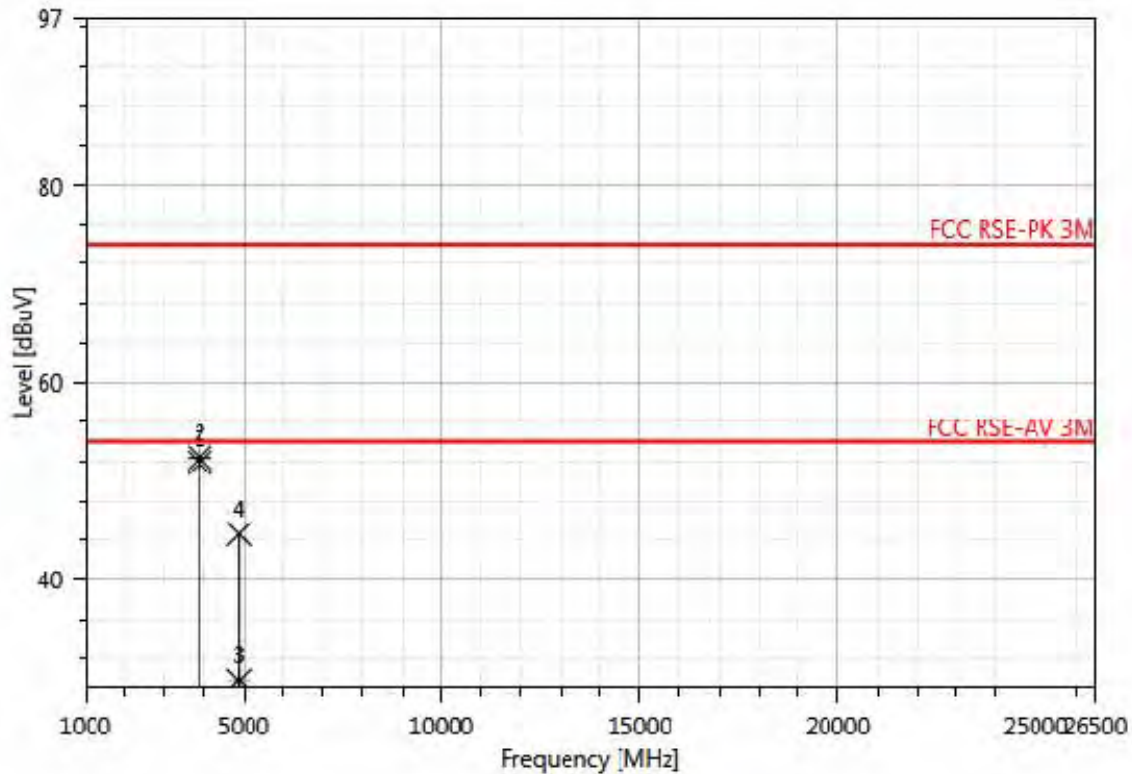
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Operation Mode :	802.11n40	Test Date :	05/18/2016
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
3891.00	S	Average	52.37	50.01	2.36	54.00	-1.63
3891.00	S	Peak	51.85	49.49	2.36	74.00	-22.15
4874.00	H	Average	29.77	24.64	5.13	54.00	-24.23
4874.00	H	Peak	44.62	39.48	5.13	74.00	-29.38

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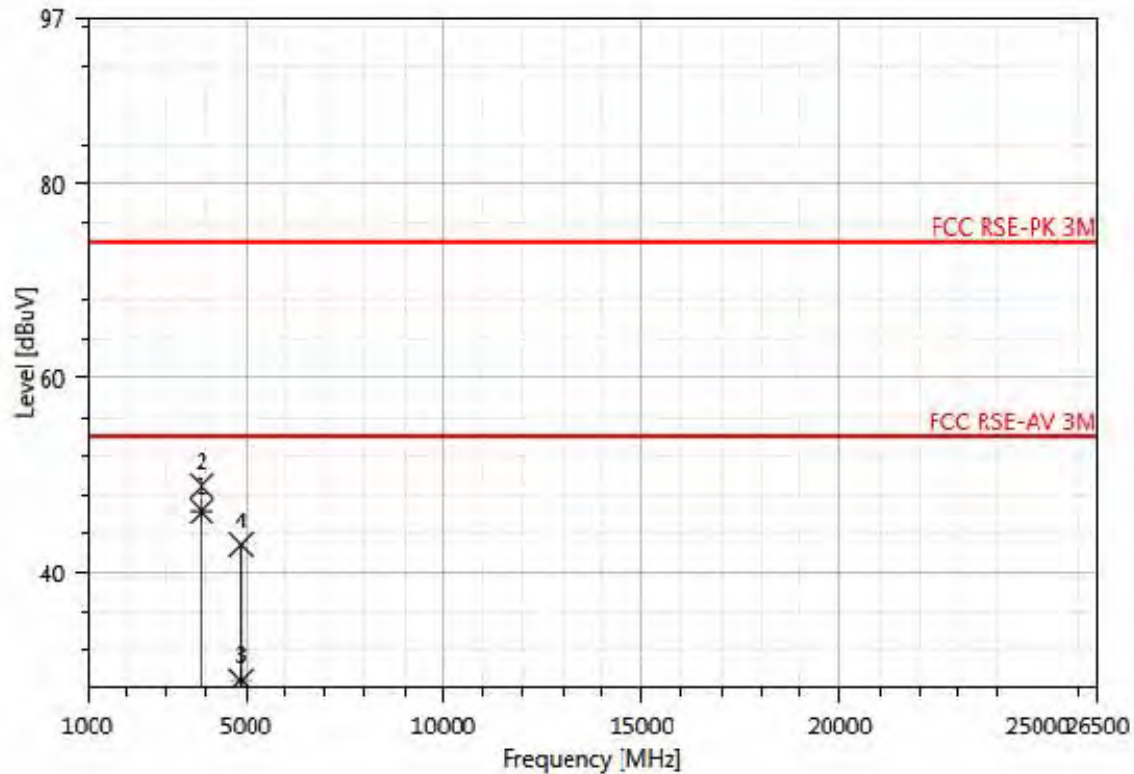
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Operation Mode :	802.11n40	Test Date :	05/18/2016
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @ 3m dBuV/m	Margin dB
3891.00	S	Average	46.35	43.99	2.36	54.00	-7.65
3891.00	S	Peak	48.88	46.52	2.36	74.00	-25.12
4874.00	H	Average	28.94	23.81	5.13	54.00	-25.06
4874.00	H	Peak	42.86	37.73	5.13	74.00	-31.14

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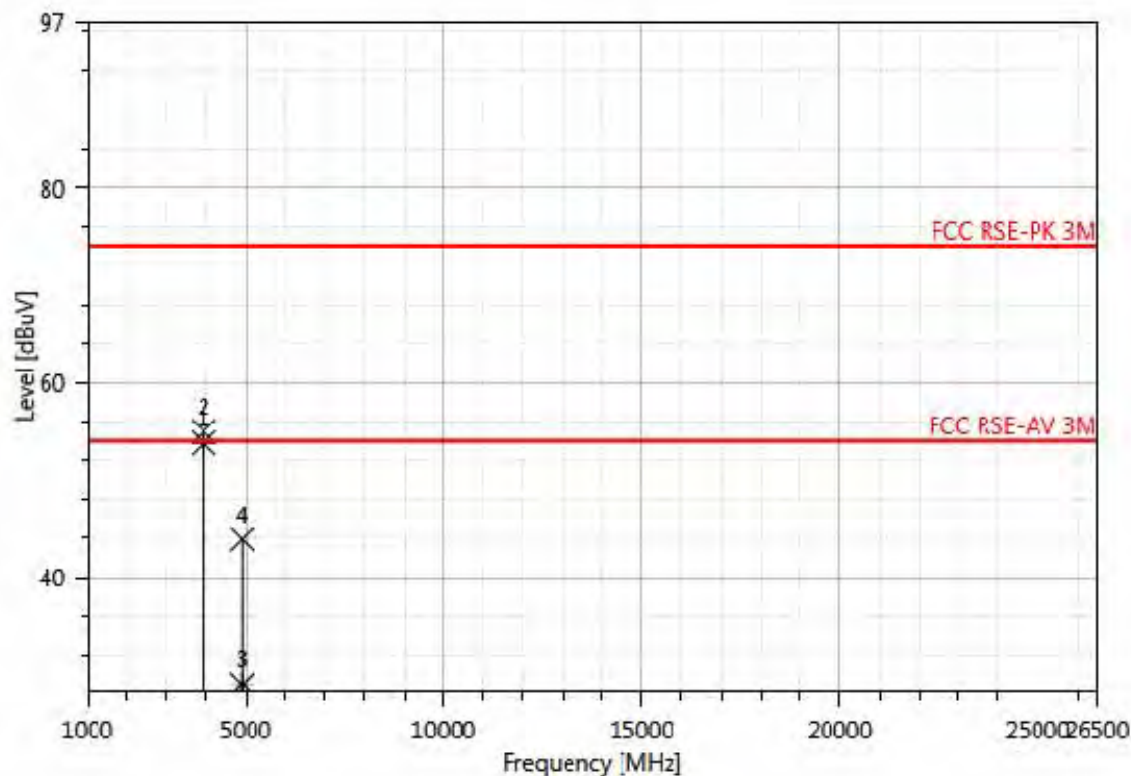
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Operation Mode :	802.11n40	Test Date :	05/18/2016
Fundamental Frequency :	2452 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBuV/m	dBuV/m	dB	dBuV/m	dB
3940.00	S	Average	53.80	51.45	2.35	54.00	-0.20
3940.00	S	Peak	54.97	52.62	2.35	74.00	-19.03
4904.00	H	Average	29.03	23.80	5.23	54.00	-24.97
4904.00	H	Peak	43.89	38.66	5.23	74.00	-30.11

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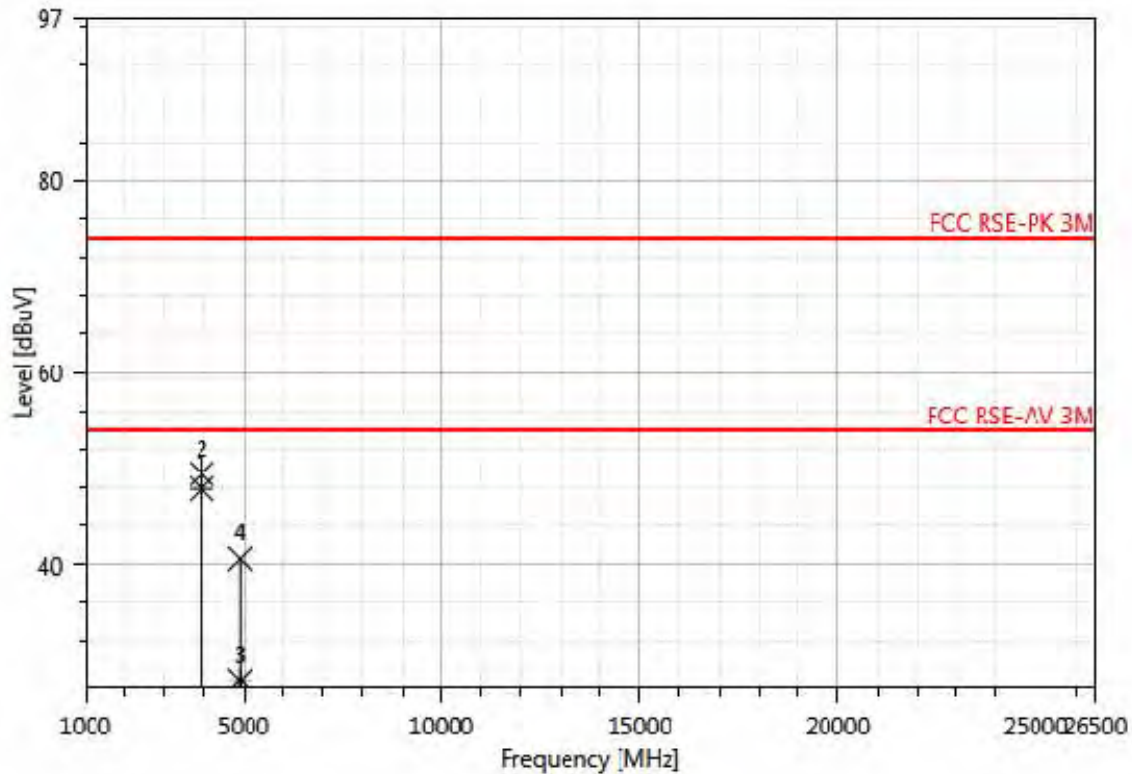
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Operation Mode : 802.11n40 Test Date : 05/18/2016
Fundamental Frequency : 2452 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH HIGH Test Engineer : Edward
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
3940.00	S	Average	47.88	45.53	2.35	54.00	-6.12
3940.00	S	Peak	49.46	47.10	2.35	74.00	-24.54
4904.00	H	Average	27.91	22.68	5.23	54.00	-26.09
4904.00	H	Peak	40.61	35.38	5.23	74.00	-33.39

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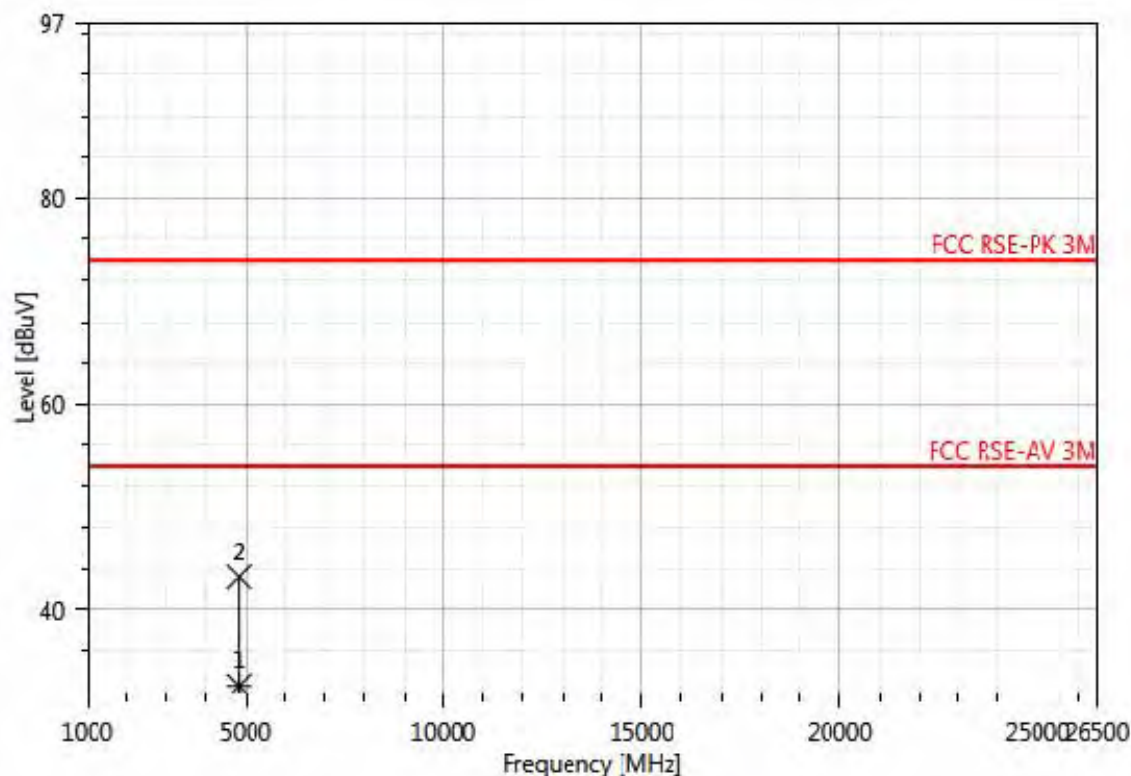
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Beam Forming Mode:

Radiated Spurious Emission Measurement Result (802.11_HT20)

Operation Mode :	802.11n20	Test Date :	07/06/2016
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4824.00	H	Average	32.65	27.71	4.94	54.00	-21.35
4824.00	H	Peak	43.28	38.33	4.94	74.00	-30.72

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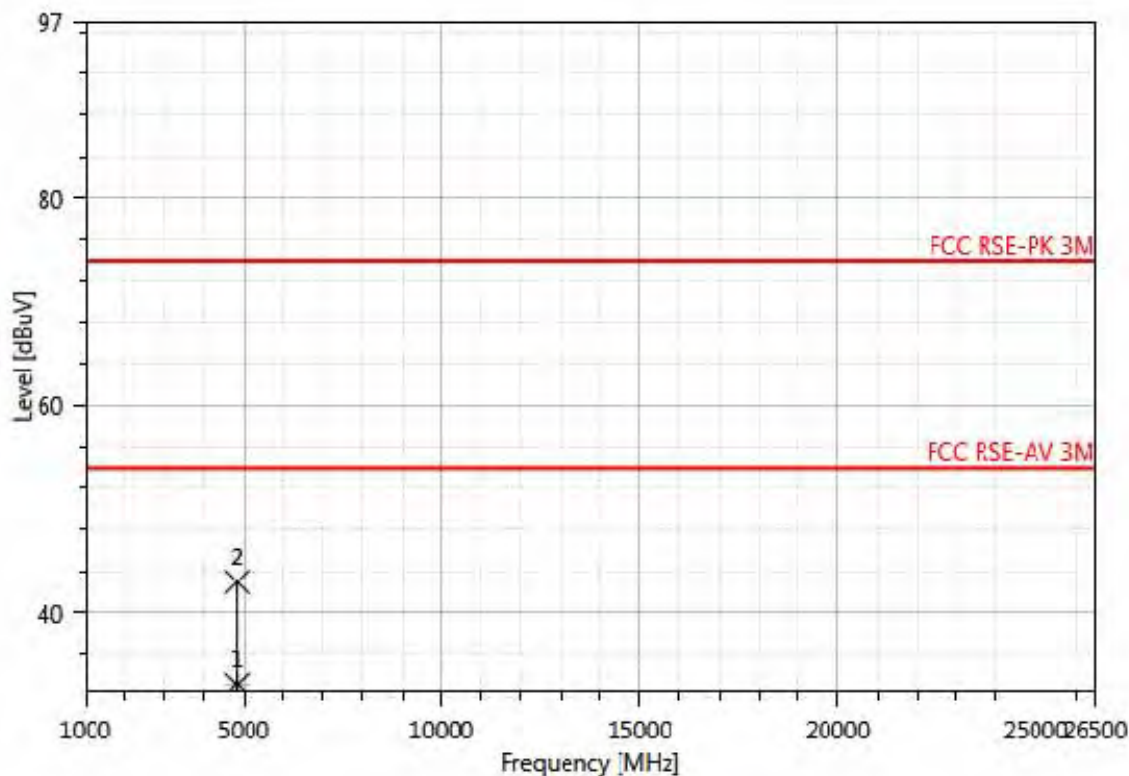
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Operation Mode :	802.11n20	Test Date :	07/06/2016
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4824.00	H	Average	33.07	28.13	4.94	54.00	-20.93
4824.00	H	Peak	42.96	38.02	4.94	74.00	-31.04

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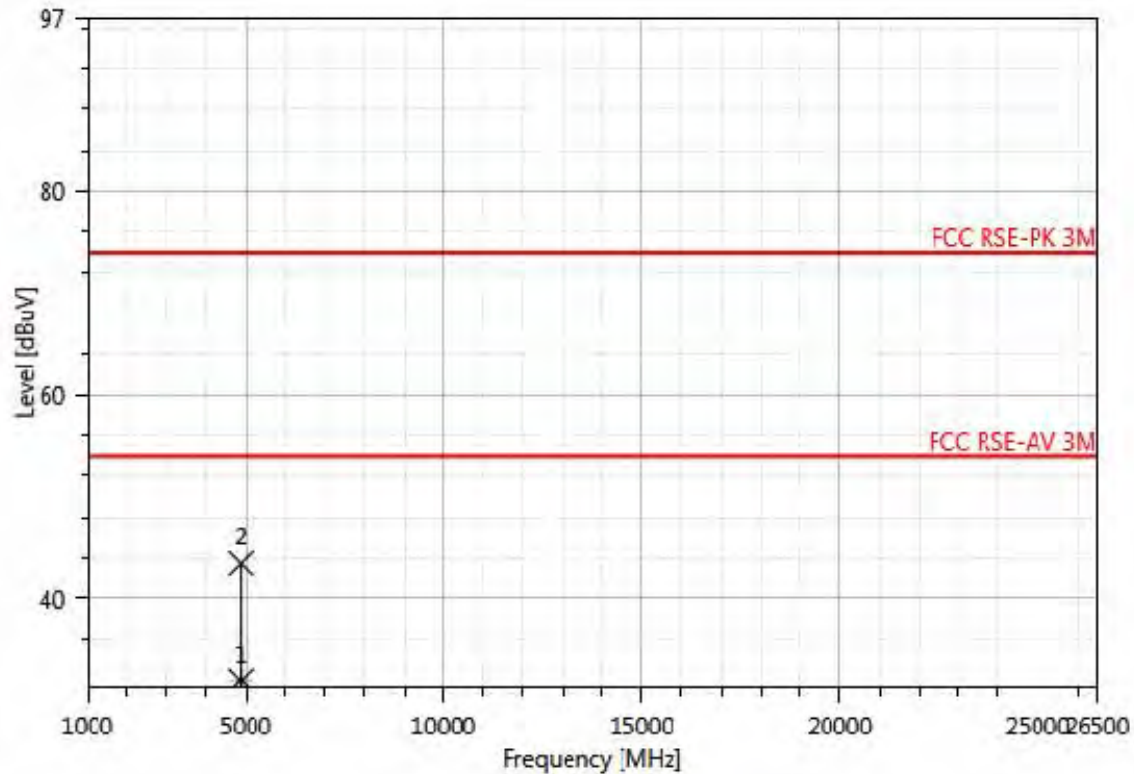
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Operation Mode :	802.11n20	Test Date :	07/06/2016
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4874.00	H	Average	31.94	26.81	5.13	54.00	-22.06
4874.00	H	Peak	43.49	38.35	5.13	74.00	-30.51

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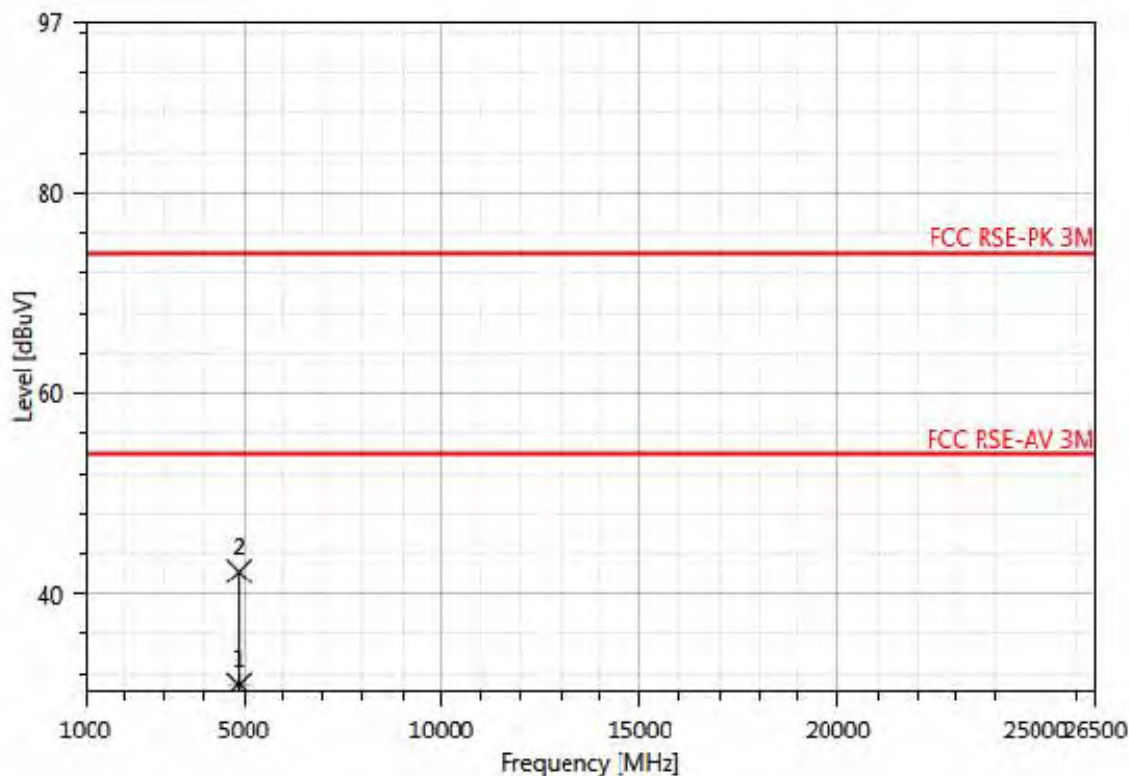
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Operation Mode :	802.11n20	Test Date :	07/06/2016
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4874.00	H	Average	31.02	25.89	5.13	54.00	-22.98
4874.00	H	Peak	42.28	37.14	5.13	74.00	-31.72

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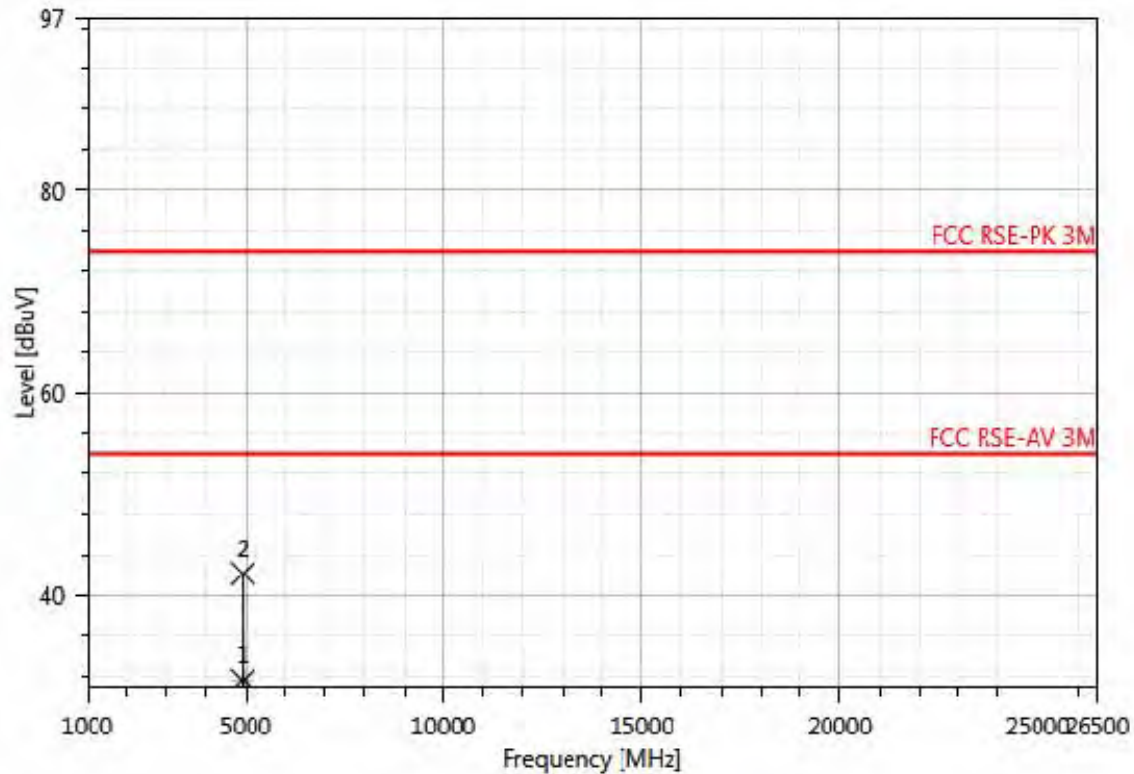
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Operation Mode :	802.11n20	Test Date :	07/06/2016
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4924.00	H	Average	31.62	26.37	5.25	54.00	-22.38
4924.00	H	Peak	42.16	36.90	5.25	74.00	-31.84

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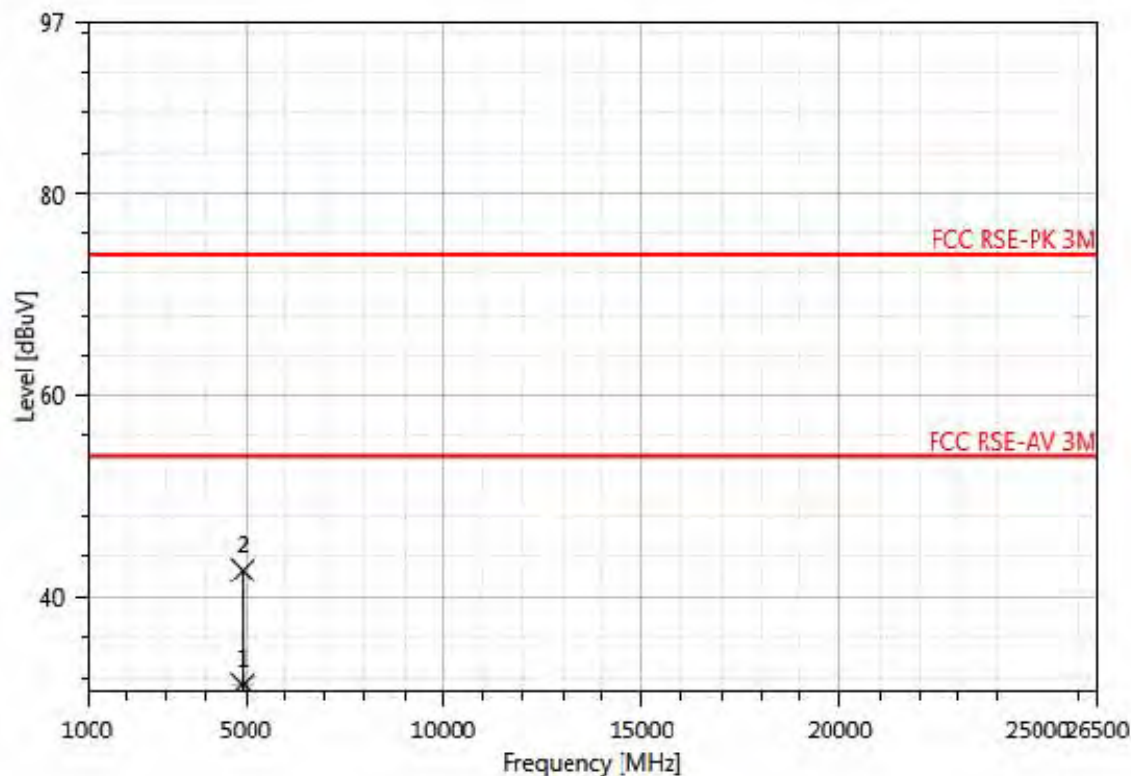
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Operation Mode :	802.11n20	Test Date :	07/06/2016
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4924.00	H	Average	31.35	26.10	5.25	54.00	-22.65
4924.00	H	Peak	42.66	37.41	5.25	74.00	-31.34

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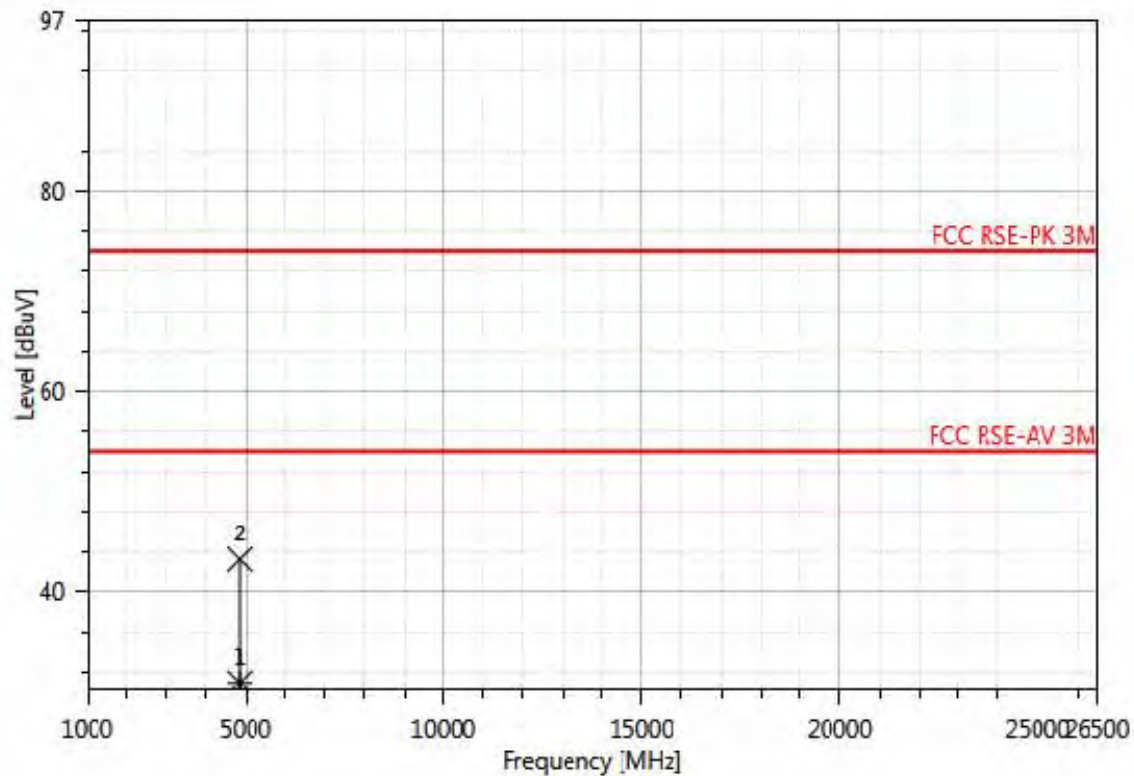
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Radiated Spurious Emission Measurement Result (802.11_HT40)

Operation Mode :	802.11n40	Test Date :	07/06/2016
Fundamental Frequency :	2422 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4844.00	H	Average	30.95	25.98	4.97	54.00	-23.05
4844.00	H	Peak	43.27	38.29	4.97	74.00	-30.73

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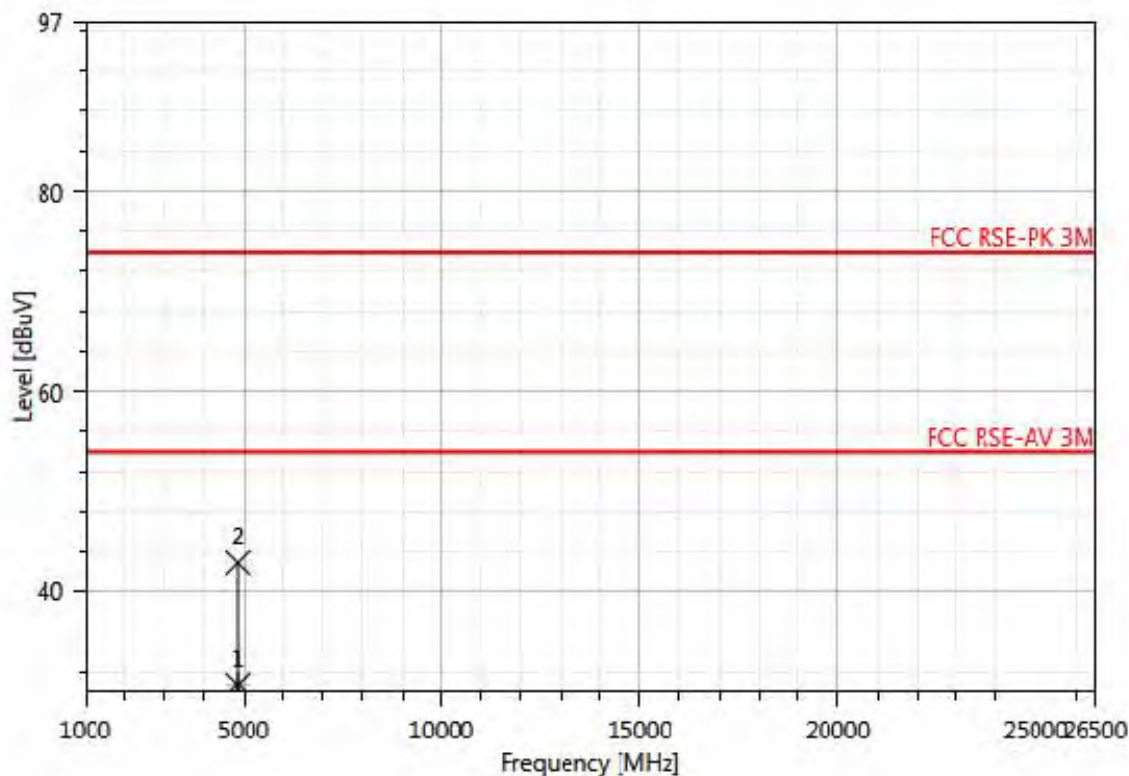
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Operation Mode : 802.11n40
 Fundamental Frequency : 2422 MHz
 Operation Band : Tx CH LOW
 EUT Pol. : E2 Plane

Test Date : 07/06/2016
 Temp. / Humi. : 21 deg_C / 62 RH
 Test Engineer : Edward
 Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4844.00	H	Average	30.75	25.78	4.97	54.00	-23.25
4844.00	H	Peak	42.94	37.97	4.97	74.00	-31.06

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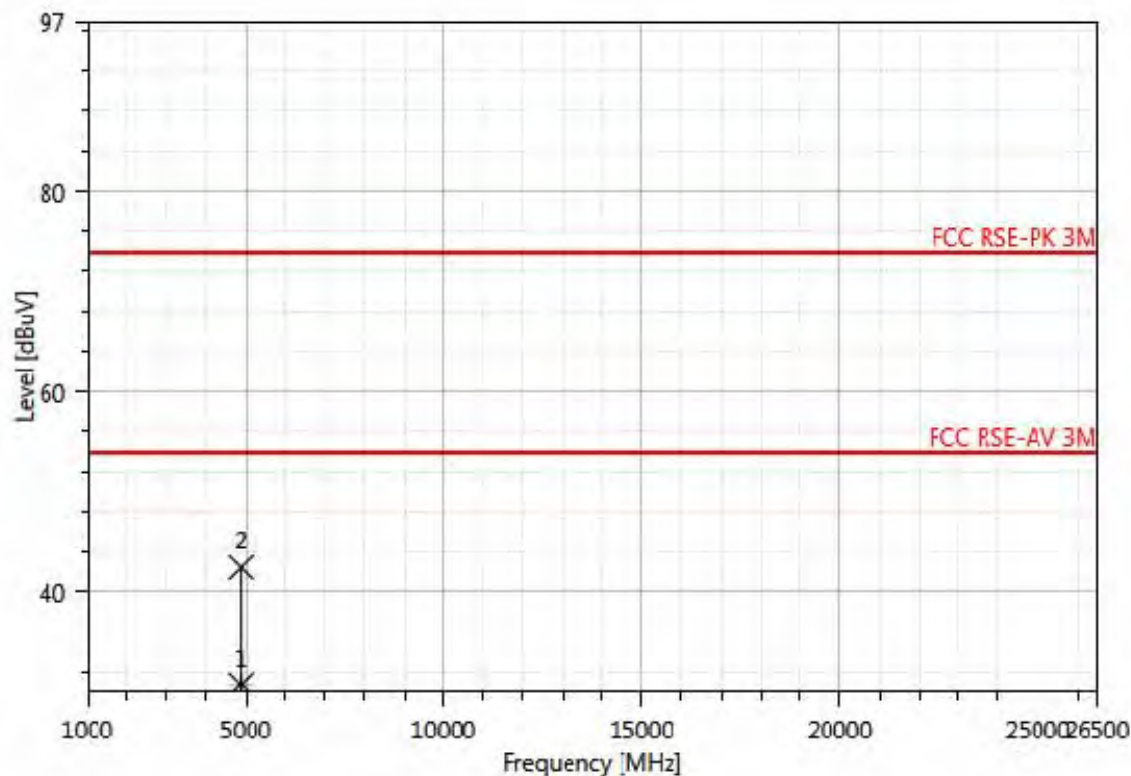
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Operation Mode : 802.11n40
 Fundamental Frequency : 2437 MHz
 Operation Band : Tx CH MID
 EUT Pol. : E2 Plane

Test Date : 07/06/2016
 Temp. / Humi. : 21 deg_C / 62 RH
 Test Engineer : Edward
 Measurement Antenna Pol. : VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4874.00	H	Average	30.85	25.72	5.13	54.00	-23.15
4874.00	H	Peak	42.59	37.46	5.13	74.00	-31.41

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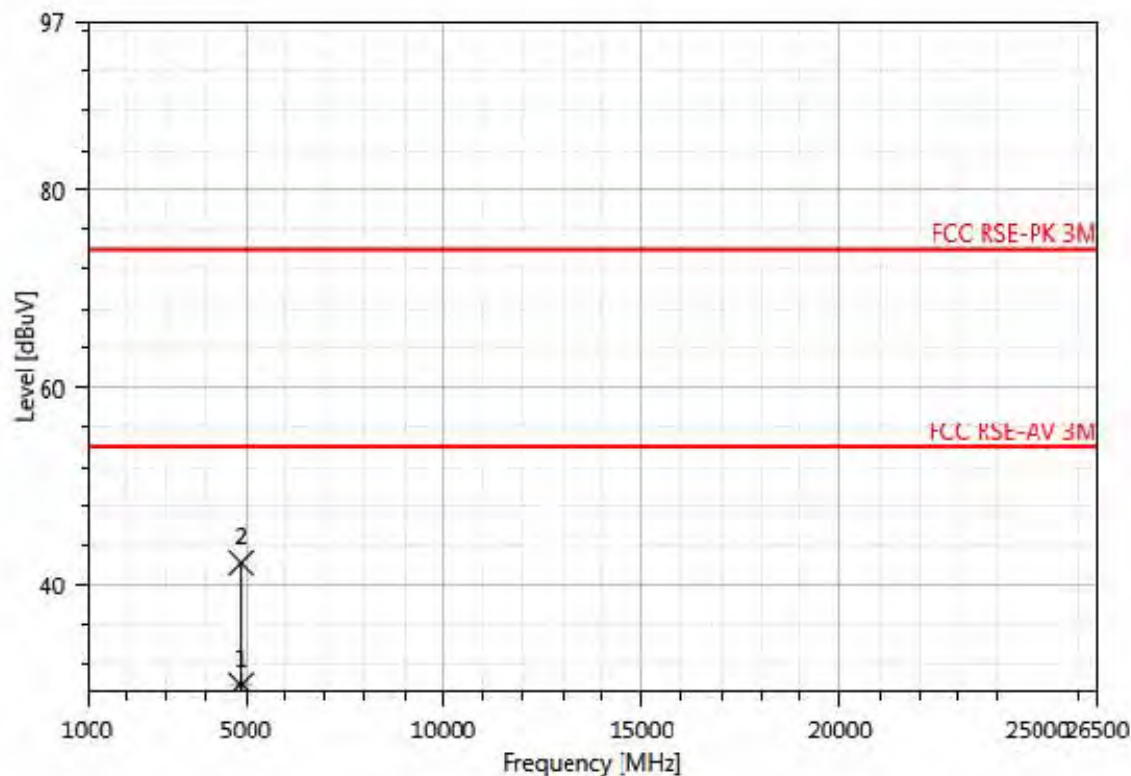
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Operation Mode :	802.11n40	Test Date :	07/06/2016
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @ 3m dBuV/m	Margin dB
4874.00	H	Average	29.97	24.84	5.13	54.00	-24.03
4874.00	H	Peak	42.30	37.16	5.13	74.00	-31.70

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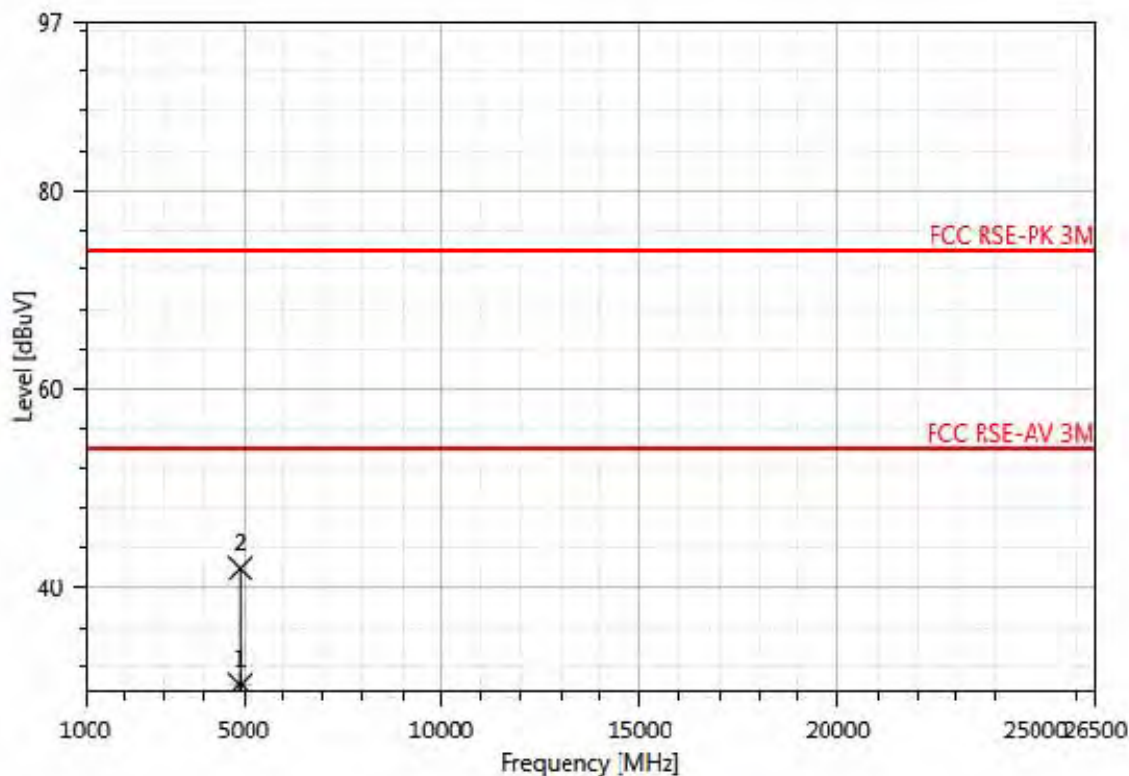
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Operation Mode :	802.11n40	Test Date :	07/06/2016
Fundamental Frequency :	2452 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4904.00	H	Average	30.24	25.01	5.23	54.00	-23.76
4904.00	H	Peak	41.98	36.75	5.23	74.00	-32.02

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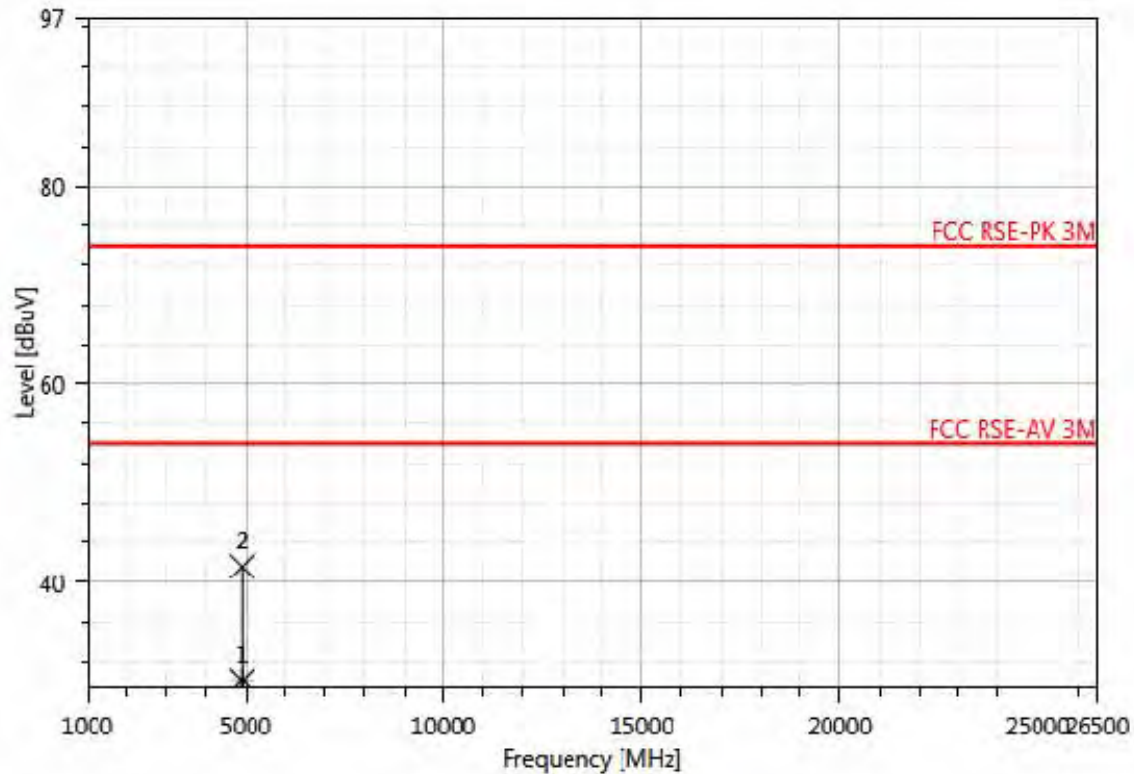
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Operation Mode :	802.11n40	Test Date :	07/06/2016
Fundamental Frequency :	2452 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4904.00	H	Average	30.09	24.86	5.23	54.00	-23.91
4904.00	H	Peak	41.59	36.36	5.23	74.00	-32.41

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12 PEAK POWER SPECTRAL DENSITY

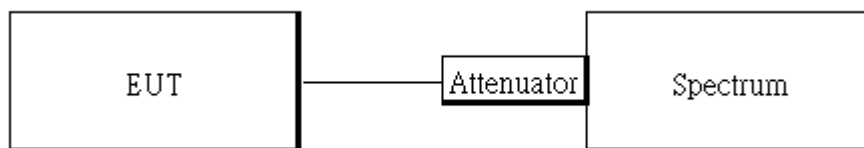
12.1 Standard Applicable

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	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017

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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Note:

Antenna Gain: 5.18 dBi

Aux1 Antenna Gain: 5.18 dBi

Number Antenna: 2 pcs

Limit: 8 dBm

The antenna gain is greater than 6dBi in Beamforming mode the limit reduce as below

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

Effective Legacy Gain (dBi) = 5.18+3.01=8.19dBi

Limit: 8dBm – (8.19 – 6dBi) = 5.81dBm

12.5 Measurement Result

POWER DENSITY 802.11b MODE				POWER DENSITY 802.11g MODE			
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result	Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2412	6.13	8.00	PASS	2412	-8.80	8.00	PASS
2437	1.19	8.00	PASS	2437	-5.86	8.00	PASS
2462	6.25	8.00	PASS	2462	-9.55	8.00	PASS

CDD Mode:

POWER DENSITY 802.11n HT20 MODE				POWER DENSITY 802.11n HT40 MODE			
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result	Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2412	-3.20	8.00	PASS	2422	-5.6	8.00	PASS
2437	-3.97	8.00	PASS	2437	-6.28	8.00	PASS
2462	-2.23	8.00	PASS	2452	-5.52	8.00	PASS

Bandedge Limit 802.11b MODE			Bandedge Limit 802.11g MODE		
Frequency (MHz)	RF Power Density (dBm)	Bandedge Limit (dBm)	Frequency (MHz)	RF Power Density (dBm)	Bandedge Limit (dBm)
2412	7.33	-12.67	2412	6.98	-13.02
2462	8.00	-12.00	2462	6.53	-13.47

Bandedge Limit 802.11n20 MODE			Bandedge Limit 802.11n40 MODE		
Frequency (MHz)	RF Power Density (dBm)	Bandedge Limit (dBm)	Frequency (MHz)	RF Power Density (dBm)	Bandedge Limit (dBm)
2412	11.99	-8.01	2422	9.7	-10.30
2462	12.85	-7.15	2452	10.51	-9.49

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Beam Forming Mode:

POWER DENSITY 802.11n HT20 MODE				POWER DENSITY 802.11n HT40 MODE			
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result	Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2412	-6.79	5.81	PASS	2422	-10.32	5.81	PASS
2437	-7.12	5.81	PASS	2437	-9.01	5.81	PASS
2462	-6.97	5.81	PASS	2452	-9.93	5.81	PASS

Bandedge Limit 802.11 n20 MODE			Bandedge Limit 802.11 n40 MODE		
Frequency (MHz)	RF Power Density (dBm)	Bandedge Limit (dBm)	Frequency (MHz)	RF Power Density (dBm)	Bandedge Limit (dBm)
2412	8.39	-11.61	2422	4.88	-15.12
2462	8.56	-11.44	2452	5.45	-14.55

*Refer to next page for plots

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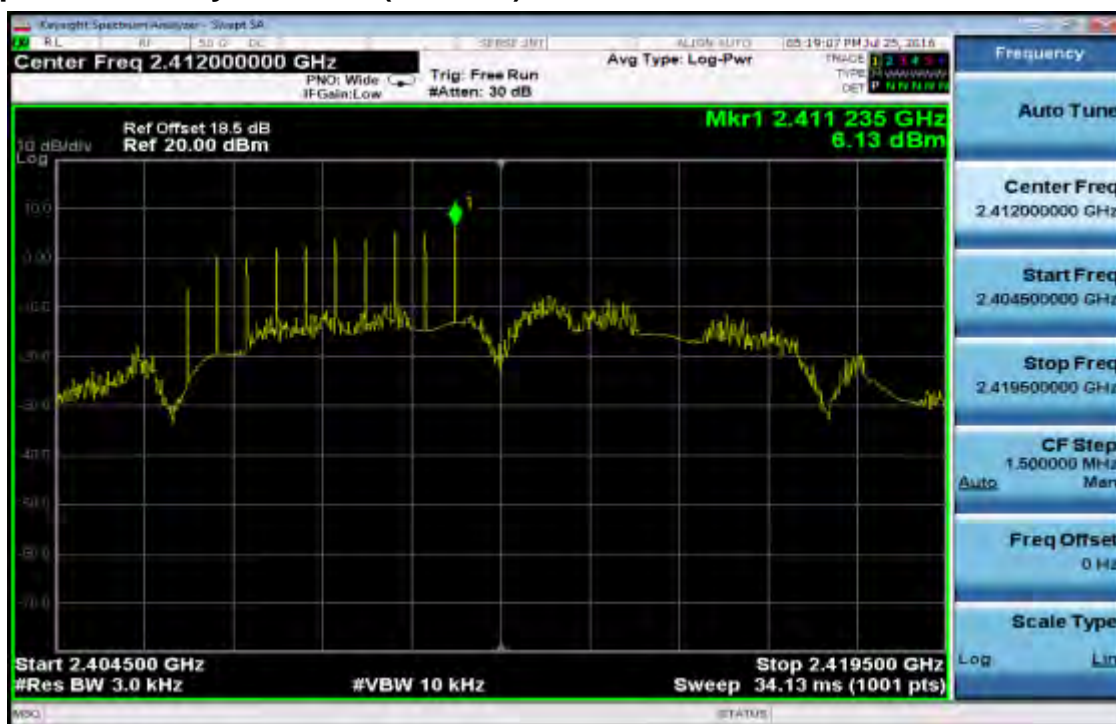
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802.11b

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



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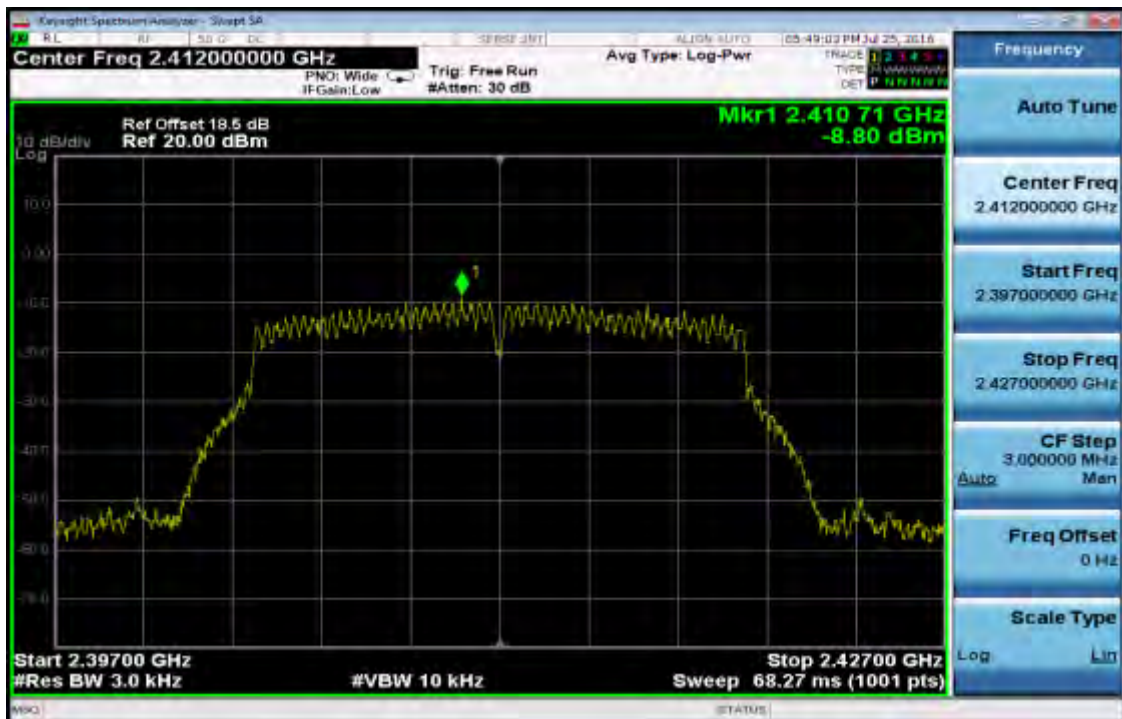
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Power Spectral Density Test Plot (CH-High)



802.11g

Power Spectral Density Test Plot (CH-Low)



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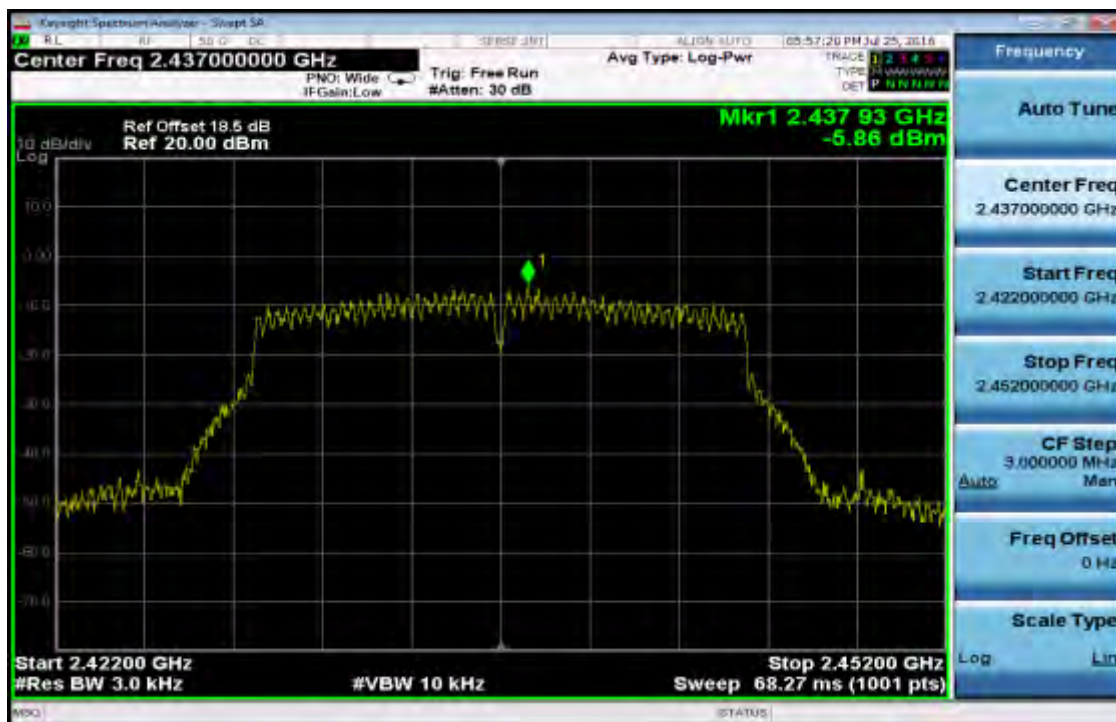
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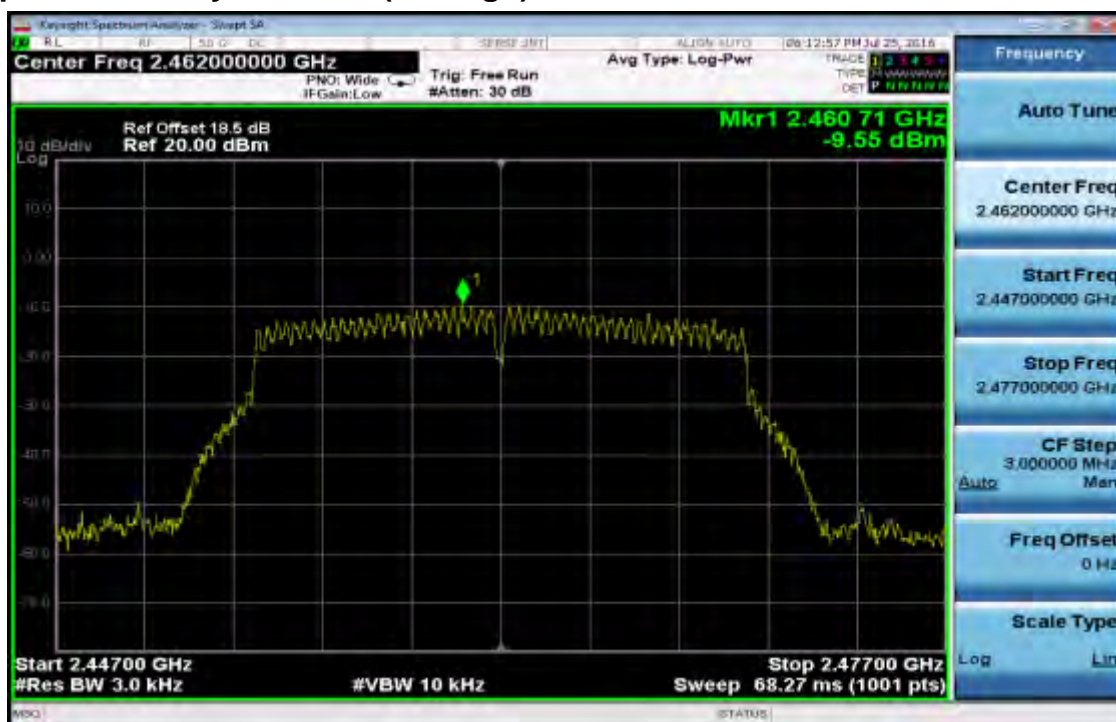
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Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



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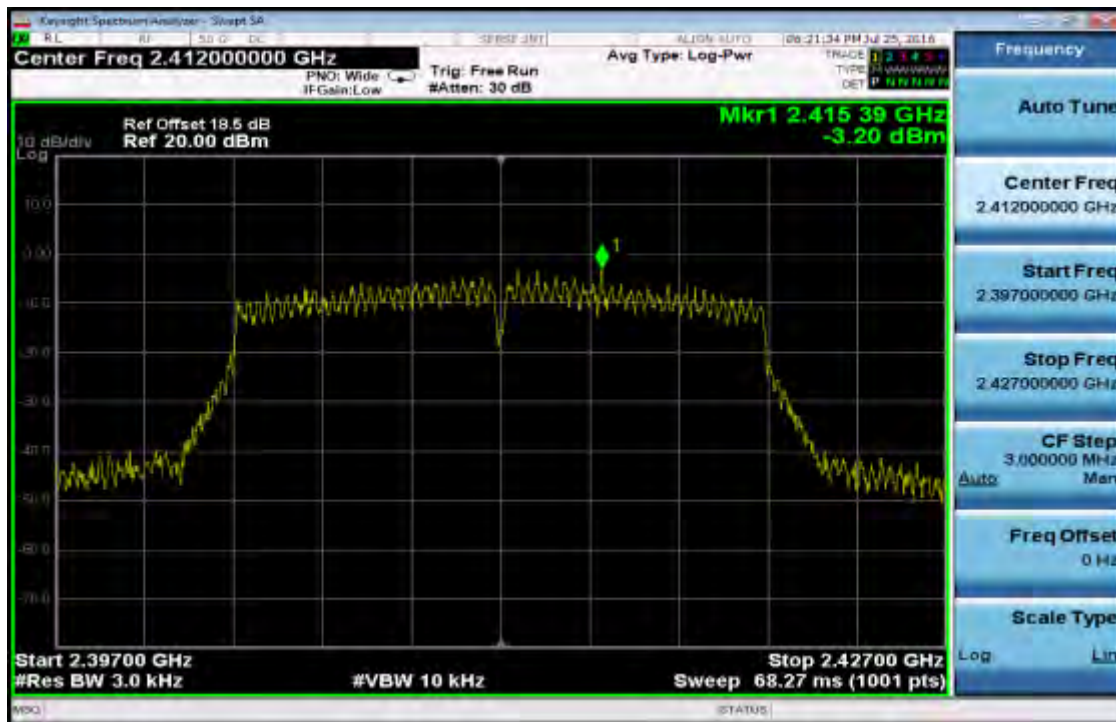
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CDD Mode:

802.11n_HT20 (MIMO)

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



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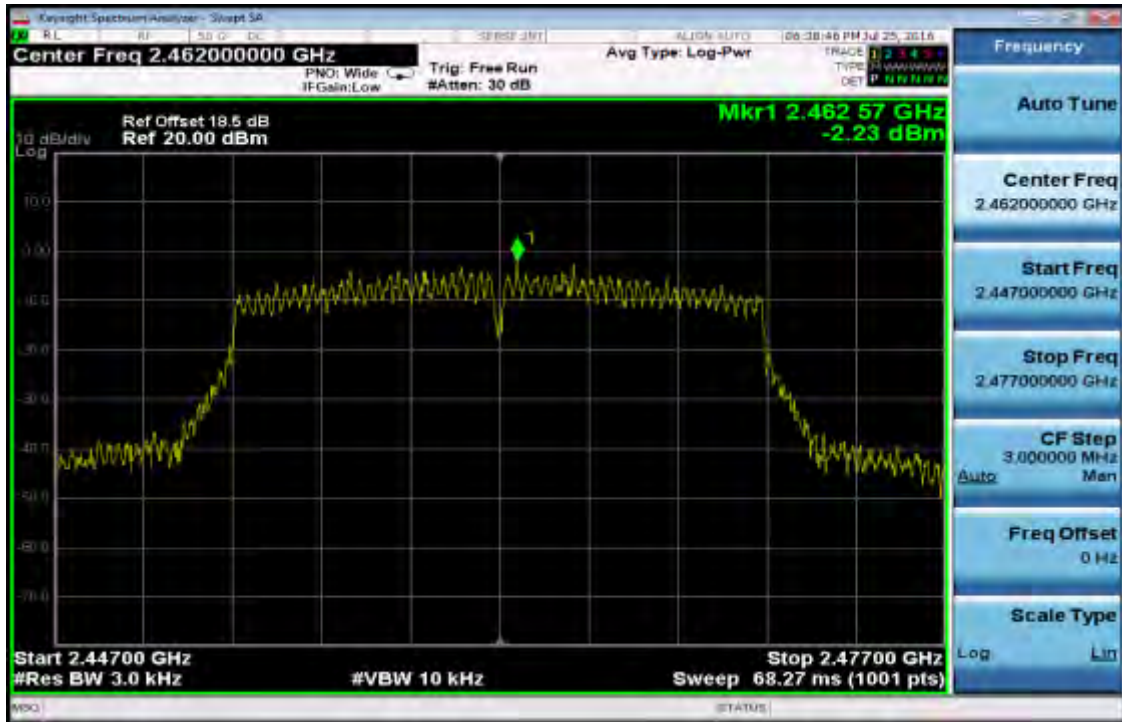
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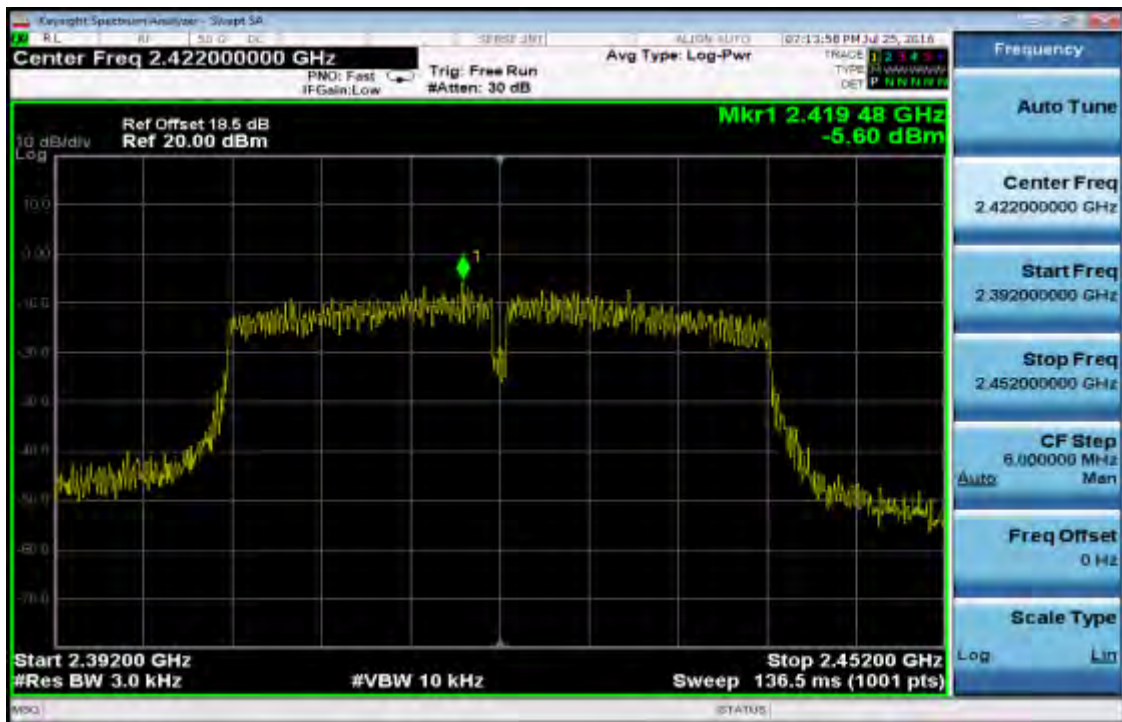
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Power Spectral Density Test Plot (CH-High)



802.11n_HT40 (MIMO)

Power Spectral Density Test Plot (CH-Low)



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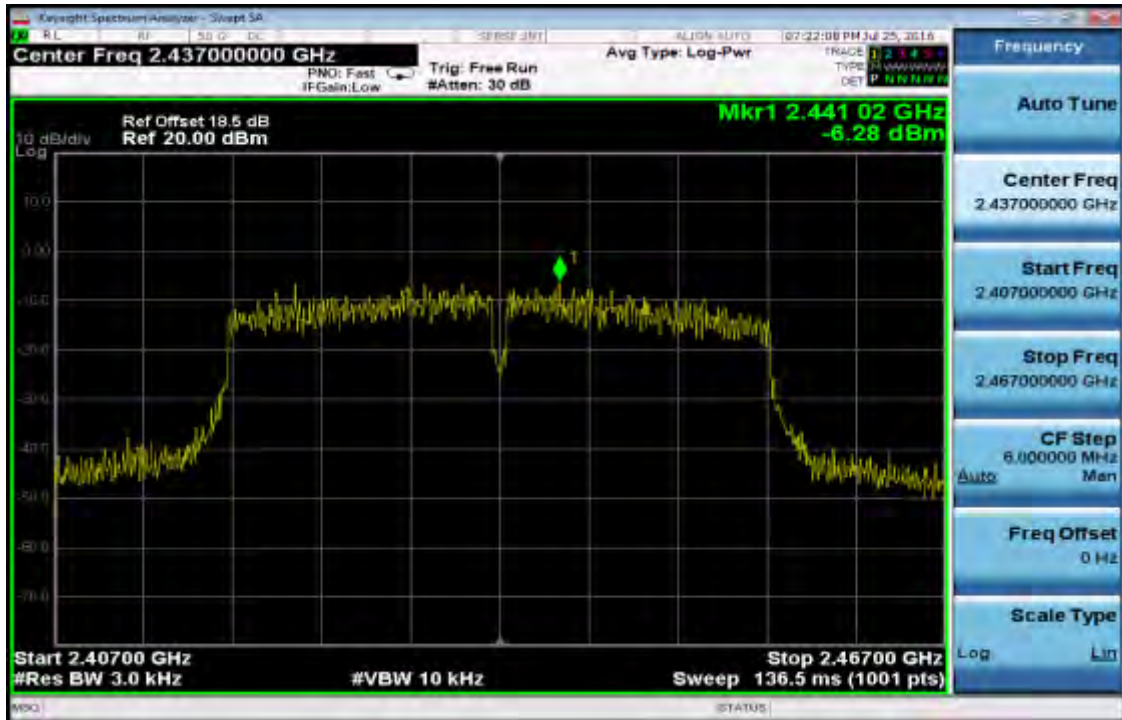
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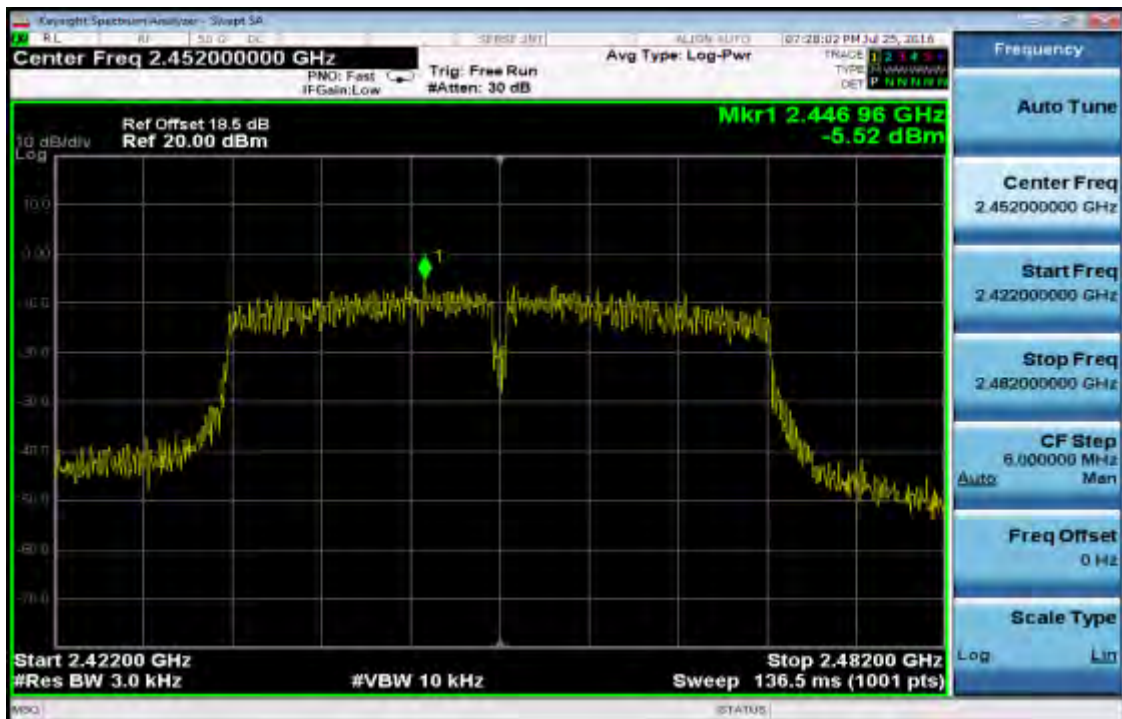
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Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



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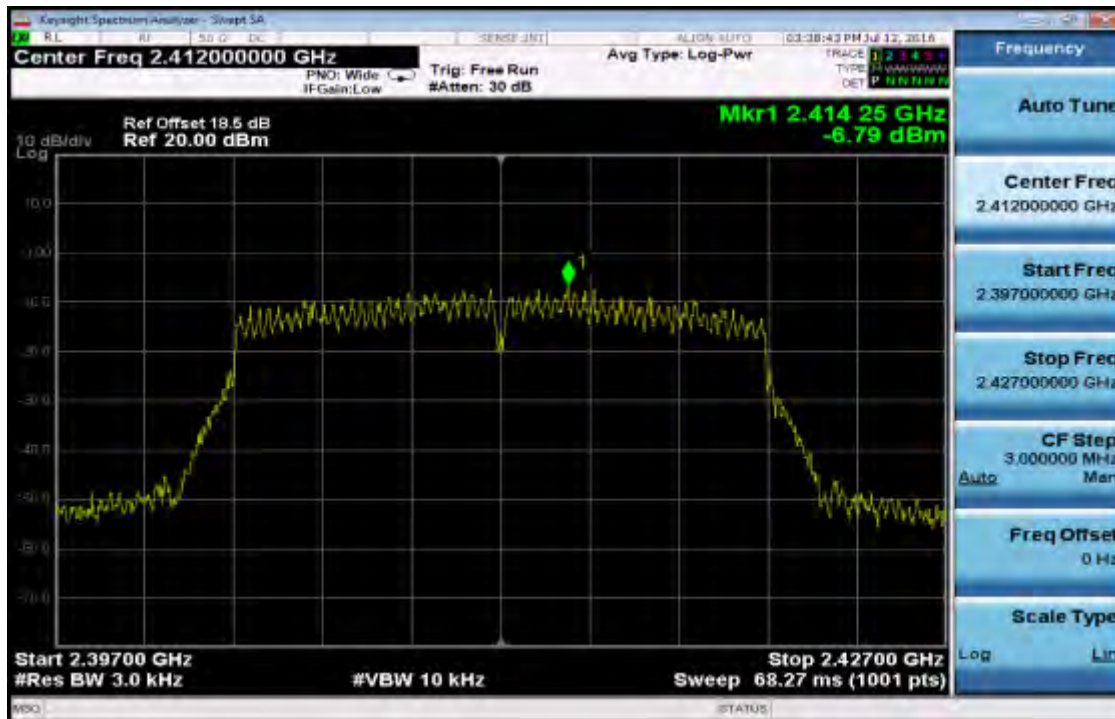
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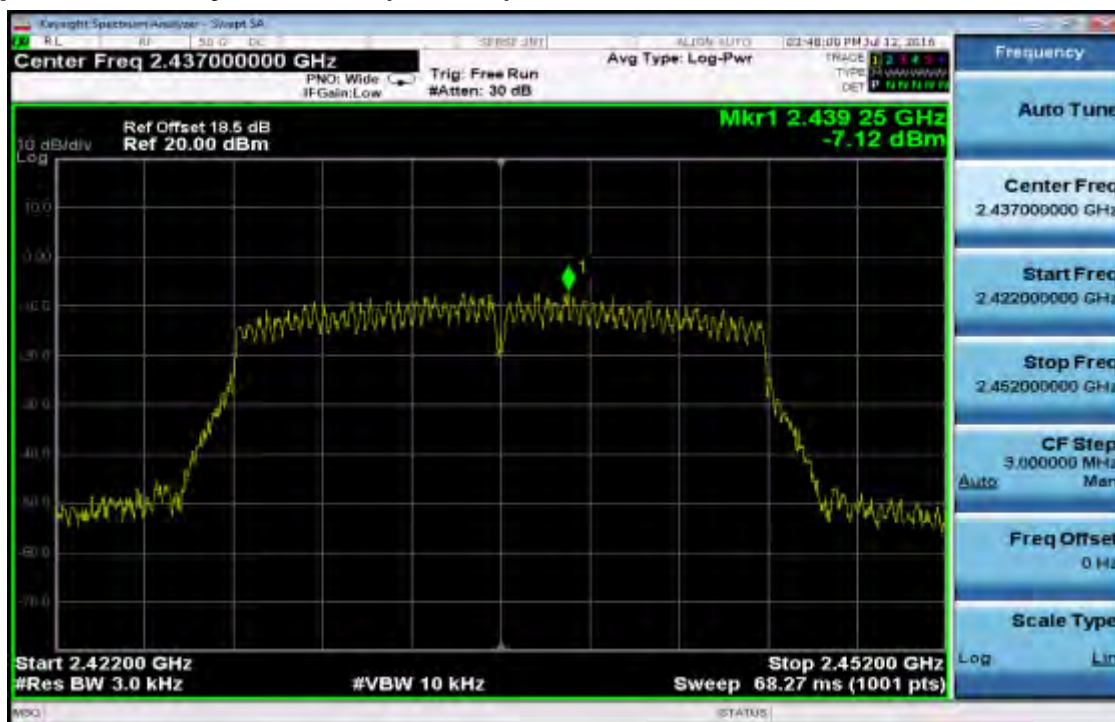
Beam Forming Mode:

802.11n_HT20 (MIMO)

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



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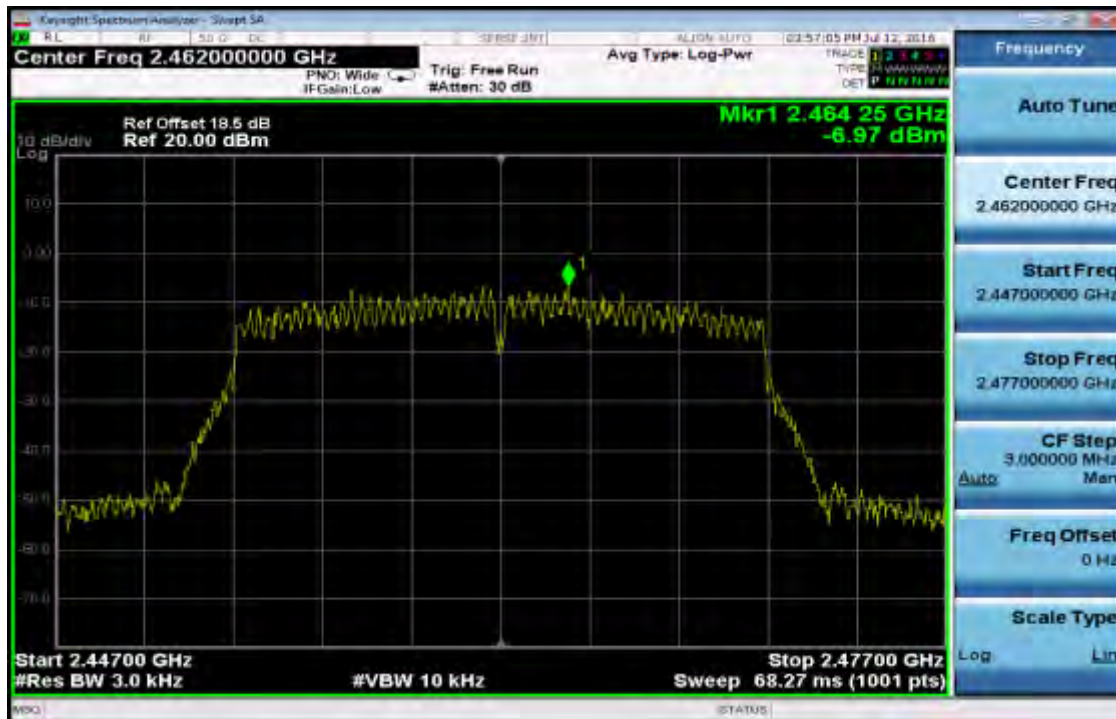
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Power Spectral Density Test Plot (CH-High)



802.11n_HT40 (MIMO)

Power Spectral Density Test Plot (CH-Low)



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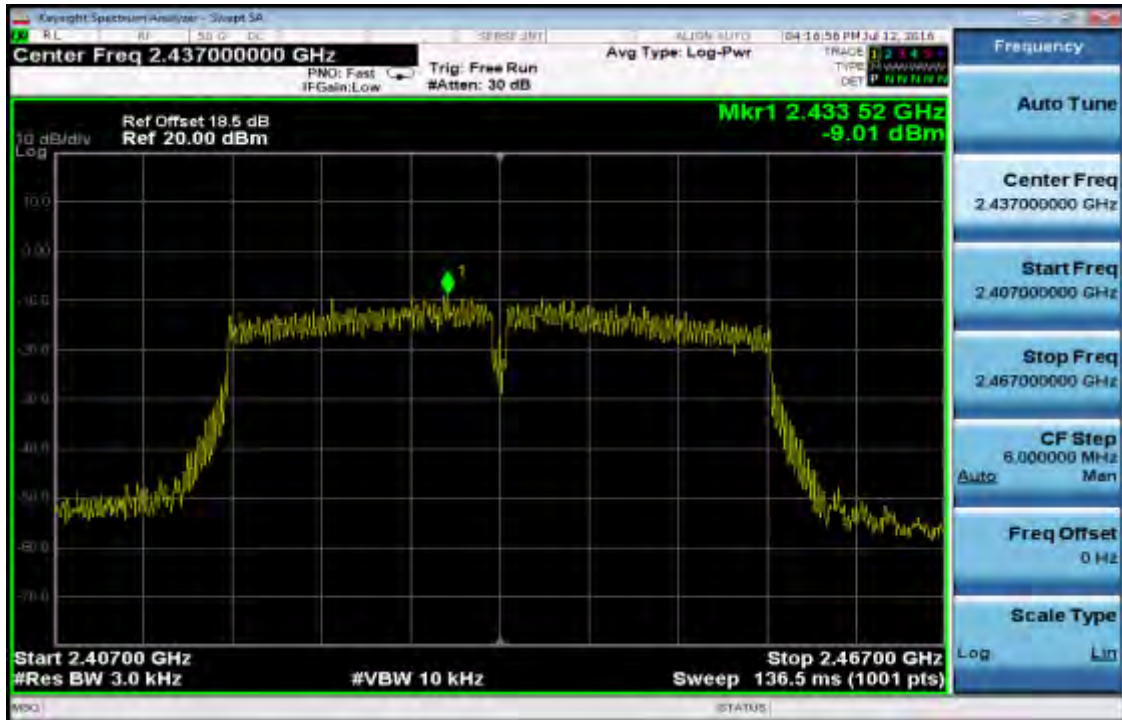
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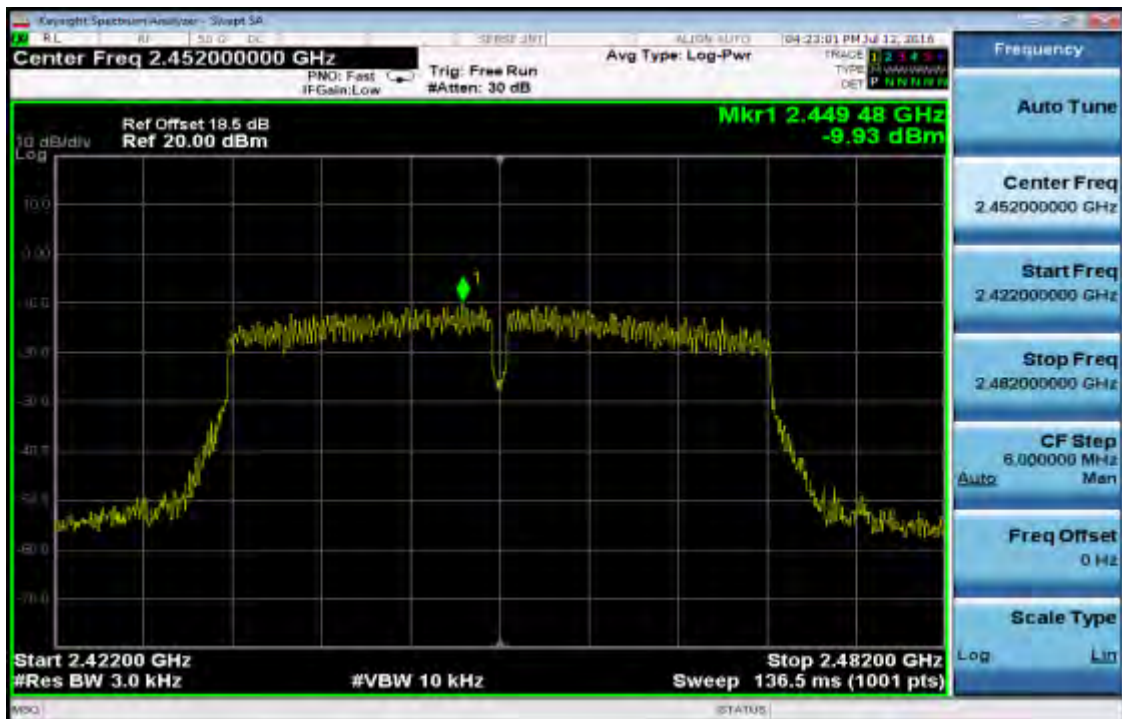
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Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



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



802.11b PSD for Bandedge Limit(CH-High)



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802.11g PSD for Bandedge Limit(CH-Low)



802.11g PSD for Bandedge Limit(CH-High)



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CDD Mode:

802.11n_HT20 PSD for Bandedge Limit(CH-Low)



802.11n_HT20 PSD for Bandedge Limit(CH-High)



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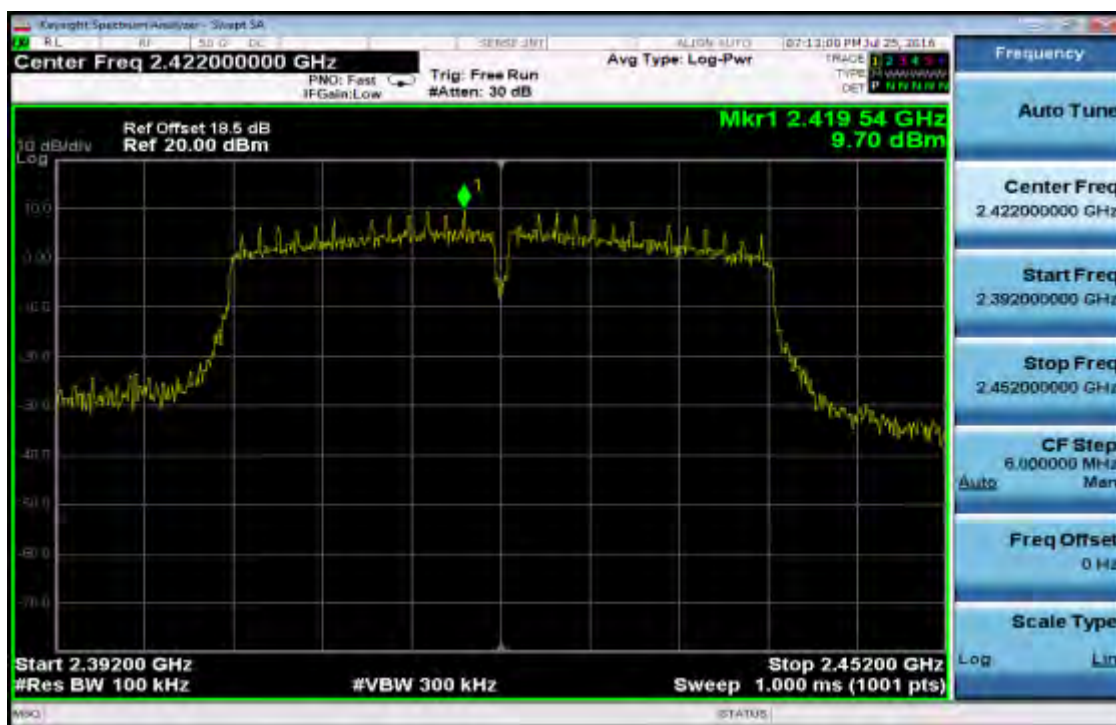
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802.11n_HT40 PSD for Bandedge Limit(CH-Low)



802.11n_HT40 PSD for Bandedge Limit(CH-High)



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Beam Forming Mode:

802.11n_HT20 PSD for Bandedge Limit(CH-Low)



802.11n_HT20 PSD for Bandedge Limit(CH-High)



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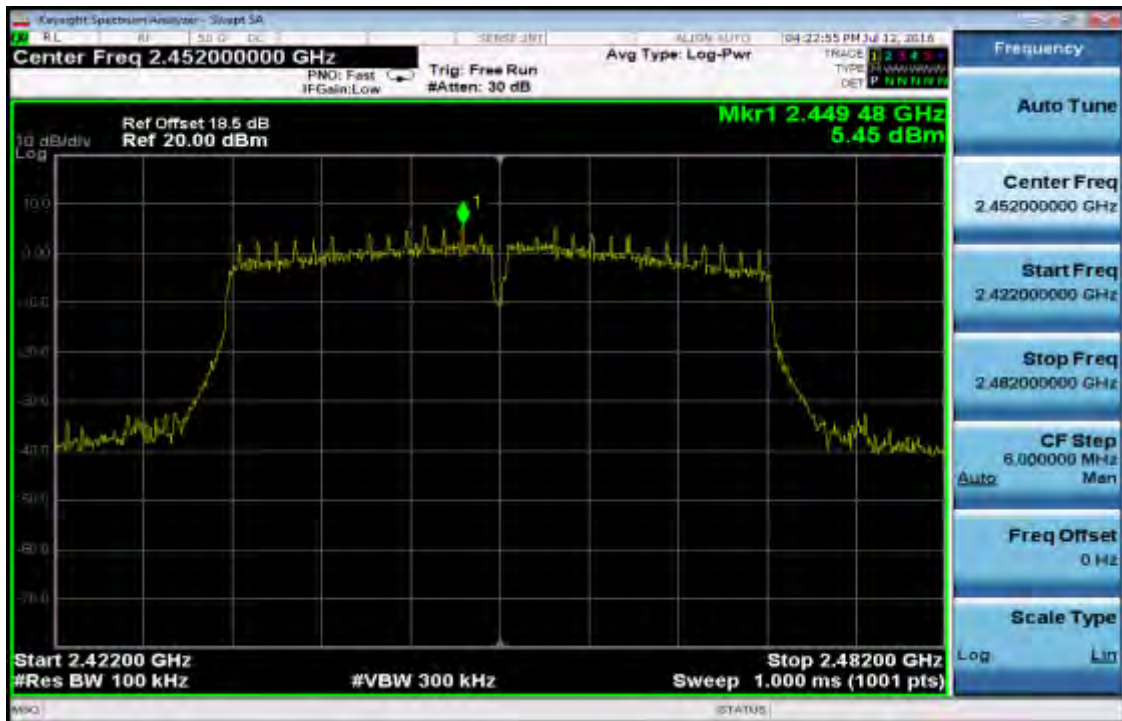
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802.11n_HT40 PSD for Bandedge Limit(CH-Low)



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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14 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

14.1 Standard Applicable

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1093 RF exposure is calculated.

Limits for Maximum Permissive Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	F/1500	30
1500-15000	/	/	1.0	30

F = frequency in MHz

* = Plane-wave equipment power density

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14.2 Maximum Permissible Exposure (MPE) Evaluation

802.11b_MIMO										
CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)				Total Peak Output Power (dBm)	Total Peak Output Power (mW)	Limit	RESULT
			CH 0	CH 1	CH 2	CH 3				
1	2412	1	14.35	12.93	13.14	12.88	19.39	86.88	1 Watt = 30.00 dBm	PASS
6	2437	1	15.59	14.23	14.56	14.02	20.66	116.52	1 Watt = 30.00 dBm	PASS
11	2462	1	15.31	14.17	14.68	14.21	20.64	115.82	1 Watt = 30.00 dBm	PASS
802.11b_MIMO										
CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)				Max. Output include tune up tolerance Power (dBm)	Max. Output include tune up tolerance Power (mW)	Limit	RESULT
			CH 0	CH 1	CH 2	CH 3				
1	2412	1	11.93	10.53	11.12	10.57	17.10	51.24	1 Watt = 30.00 dBm	PASS
6	2437	1	13.02	12.01	12.16	11.96	18.33	68.08	1 Watt = 30.00 dBm	PASS
11	2462	1	13.19	11.88	12.46	11.87	18.41	69.26	1 Watt = 30.00 dBm	PASS

MPE Prediction (802.11b 2412~2462)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4\pi R^2$$

Where: S = Power density P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

Max. output power including tune-up tolerancel:	18.41	(dBm)
Max. output power including tune-up tolerancel:	69.342581	(mW)
Duty cycle:	100	(%)
Maximum Pav :	69.342581	(mW)
Peak Antenna gain (Maximum):	5.18	(dBi)
Peak Antenna gain (linear):	3.2960971	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2462	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm^2)
Power density at predication frequency at 20 (cm)	0.045	(mW/cm^2)
Measurement Result		
The predicted power density level at 20 cm is 0.045 mW/cm2.		
This is below the uncontrolled exposure limit of 1 mW/cm2 at 2462MHz.		

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

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802.11g_MIMO										
CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)				Total Peak Output Power (dBm)	Total Peak Output Power (mW)	Limit	RESULT
			CH 0	CH 1	CH 2	CH3				
1	2412	6	20.33	18.87	19.54	19.06	25.51	355.47	1 Watt = 30.00 dBm	PASS
6	2437	6	22.27	21.42	21.73	21.44	27.75	595.58	1 Watt = 30.00 dBm	PASS
11	2462	6	20.41	19.15	19.66	19.13	25.64	366.44	1 Watt = 30.00 dBm	PASS
802.11g_MIMO										
CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)				Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
			CH 0	CH 1	CH 2	CH3				
1	2412	6	10.31	9.12	9.48	9.44	15.63	36.57	1 Watt = 30.00 dBm	PASS
6	2437	6	12.79	11.55	12.23	11.91	18.16	65.53	1 Watt = 30.00 dBm	PASS
11	2462	6	10.21	9.02	9.82	9.31	15.63	36.60	1 Watt = 30.00 dBm	PASS

MPE Prediction (802.11g 2412~2462)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4\pi R^2$$

Where: S = Power density P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

Max. output power including tune-up tolerancel:	18.16	(dBm)
Max. output power including tune-up tolerancel:	65.463617	(mW)
Duty cycle:	82.67	(%)
Maximum Pav :	54.118773	(mW)
Peak Antenna gain (Maximum):	5.18	(dBi)
Peak Antenna gain (linear):	3.2960971	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2437	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm^2)
Power density at predication frequency at 20 (cm)	0.036	(mW/cm^2)
Measurement Result		
The predicted power density level at 20 cm is 0.036 mW/cm2.		
This is below the uncontrolled exposure limit of 1 mW/cm2 at 2437MHz.		

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802.11n_HT20M MIMO										
CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)				Total Peak Output Power (dBm)	Total Peak Output Power (mW)	Limit	RESULT
			CH 0	CH 1	CH 2	CH3				
1	2412	MCS2	20.87	19.76	20.33	20.45	26.39	435.62	1 Watt = 27.81 dBm	PASS
6	2437	MCS2	20.80	19.76	20.23	20.45	26.35	431.21	1 Watt = 27.81 dBm	PASS
11	2462	MCS2	20.86	19.68	20.39	20.32	26.35	431.84	1 Watt = 27.81 dBm	PASS
802.11n_HT20M MIMO										
CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)				Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
			CH 0	CH 1	CH 2	CH3				
1	2412	MCS2	12.48	11.65	12.29	11.84	18.10	64.54	1 Watt = 27.81 dBm	PASS
6	2437	MCS2	12.56	11.73	12.37	11.82	18.15	65.39	1 Watt = 27.81 dBm	PASS
11	2462	MCS2	12.57	11.68	12.64	11.74	18.20	66.09	1 Watt = 27.81 dBm	PASS

MPE Prediction (802.11n20 2412~2462)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4\pi R^2$$

Where: S = Power density P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

$$\text{MIMO gain} = \text{Directional gain} = 10 \log [(10^{(G1/20)} + 10^{(G2/20)} + \dots + 10^{(GN/20)})^2 / N_{\text{ANT}}] = 8.19 \text{dBi}$$

Max. output power including tune-up tolerancel:	18.20	(dBm)
Max. output power including tune-up tolerancel:	66.069345	(mW)
Duty cycle:	55.02	(%)
Maximum Pav :	36.351354	(mW)
Peak Antenna gain (Maximum):	8.19	(dBi)
Peak Antenna gain (linear):	6.591739	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2462	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm^2)
Power density at predication frequency at 20 (cm)	0.048	(mW/cm^2)
Measurement Result		
The predicted power density level at 20 cm is 0.048 mW/cm2.		
This is below the uncontrolled exposure limit of 1 mW/cm2 at 2462MHz.		

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802.11n_HT40M MIMO										
CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)				Total Peak Output Power (dBm)	Total Peak Output Power (mW)	Limit	RESULT
			CH 0	CH 1	CH 2	CH 3				
3	2422	MCS2	19.98	19.37	19.86	19.36	25.67	369.16	1 Watt = 27.81 dBm	PASS
6	2437	MCS2	20.92	20.37	21.06	20.54	26.75	473.37	1 Watt = 27.81 dBm	PASS
9	2452	MCS2	20.98	20.25	21.02	20.42	26.70	467.87	1 Watt = 27.81 dBm	PASS
802.11n_HT40M MIMO										
CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)				Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
			CH 0	CH 1	CH 2	CH 3				
3	2422	MCS2	11.58	10.73	11.33	11.01	17.19	52.42	1 Watt = 27.81 dBm	PASS
6	2437	MCS2	12.76	11.88	12.52	12.18	18.37	68.68	1 Watt = 27.81 dBm	PASS
9	2452	MCS2	12.61	12.09	12.76	12.24	18.45	70.05	1 Watt = 27.81 dBm	PASS

MPE Prediction (802.11n40 2412~2452)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4\pi R^2$$

Where: S = Power density P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

$$\text{MIMO gain} = \text{Directional gain} = 10 \log [(10^{(G1/20)} + 10^{(G2/20)} + \dots + 10^{(GN/20)})^2 / N_{\text{ANT}}] = 8.19 \text{ dBi}$$

Max. output power including tune-up tolerancel:	18.45	(dBm)
Max. output power including tune-up tolerancel:	69.9842	(mW)
Duty cycle:	39.77	(%)
Maximum Pav :	27.832716	(mW)
Peak Antenna gain (Maximum):	8.19	(dBi)
Peak Antenna gain (linear):	6.591739	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2437	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm^2)
Power density at predication frequency at 20 (cm)	0.037	(mW/cm^2)
Measurement Result		
The predicted power density level at 20 cm is 0.037 mW/cm2.		
This is below the uncontrolled exposure limit of 1 mW/cm2 at 2437MHz.		

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

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