

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name: Phablet
Brand Name: HP
Model No.: HSTNH-F606
Model Difference: N/A
FCC ID: B94HHF606
IC: 3905A-HHF606
Report No.: ER/2016/40049
Issue Date: May 25, 2016
FCC Rule Part: §15.247, Cat: DTS
IC Rule Part: RSS-247 issue 1 :2015
Prepared for (FCC): HP Inc.
3390 East Harmony Road Fort Collins, Colorado
80528 United States
Prepared for (IC): HP Inc.
16399 W Bernardo Dr. San Diego CA
92127-1801 USA
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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t (886-2) 2299-3279

f (886-2) 2298-0488

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VERIFICATION OF COMPLIANCE

Applicant (FCC): HP Inc.
 3390 East Harmony Road Fort Collins, Colorado 80528 United States
Applicant (IC): HP Inc.
 16399 W Bernardo Dr. San Diego CA 92127-1801 USA
Product Name: Phablet
Brand Name: HP
Model No.: HSTNH-F606
Model Difference: N/A
FCC ID: B94HHF606
IC: 3905A-HHF606
File Number: ER/2016/40049
Date of Test: Apr. 20, 2016 ~ May 20, 2016
Date of EUT Received: Apr. 20, 2016

We hereby certify that:

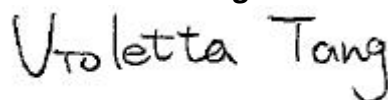
The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT tested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

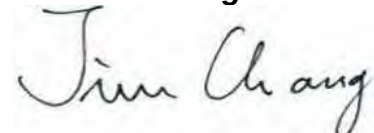
Test By:

Date:

May 25, 2016

Tin Lin / Engineer
Prepared By:

Date:

May 25, 2016

Violetta Tang / Clerk
Approved By:

Date:

May 25, 2016

Jim Chang / Asst. Manager

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t (886-2) 2299-3279

f (886-2) 2298-0488

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Revision History

Report Number	Revision	Description	Issue Date
ER/2016/40049	Rev.00	Initial creation of document	May 25, 2016

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1 GENERAL INFORMATION

1.1 Product description

General:

Product Name:	Phablet	
Brand Name:	HP	
Model No.:	HSTNH-F606	
Model Difference:	N/A	
Product SW/HW version:	V0.00.31 / 1.0	
Radio SW/HW version:	TH.2.0.c1-00260 / 1.0.0.0	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
USB Type-C Cable:	Model No.: 836233-001, Supplier: Luxshare-ICT	
Earphone:	Model No.: EH001, Supplier: 1MORE	
USB-C to VGA:	Model No.: KSC0021, Supplier: BIZLINK INTERNATIONAL CORP	
USB-C to HDMI:	Model No.: KSC0012, Supplier: BIZLINK INTERNATIONAL CORP	
USB-C to DP:	Model No.: KSC0044, Supplier: BIZLINK INTERNATIONAL CORP	
Wireless Charger:	Model No.: TPA-M601, Supplier: Merry Electronics Co Ltd	
Docking Station:	Model No.: HSTNH-F601, Supplier: HP Inc.	
Adapters for Docking Station:	1. Model No.: HSTNN-CA40, Supplier: Chicony Power Technology Co., LTd. 2. Model No.: HSTNN-LA40, Supplier: Lite-On Technology Corporation 3. Model No.: HSTNN-DA40, Supplier: DELTA ELECTRONICS INC 4. Model No.: HSTNN-AA44; Supplier: Acbel Polytech Inc.	
Power Supply:	3.85Vdc from Rechargeable Li-polymer Battery or 5.3V / 5.25V from AC/DC Adapter	
	Battery:	Model No.: HSTNH-F606-DP, Supplier: DYNAPACK INTERNATIONAL TECHNOLOGY CORP
	Adapter:	1. Model No.: WAD005, Supplier: Acbel Polytech Inc. (10.6W, 5.3V) 2. Model No.: TPN-AA01, Supplier: Acbel Polytech Inc. (15W, 5.25V)

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WLAN 2.4GHz:

Wi-Fi	Frequency Range	Channels	Rated Power / (EIRP)	Type of Emission	Modulation Technology
11b/g	2412-2462	11	b: 19.45dBm b: 18.14dBm (EIRP) g: 23.1dBm g: 18.16dBm (EIRP)	b: 13M4G1D g: 16M5D1D	DSSS, OFDM
11n	HT20 2412-2462	11	23.51dBm (MIMO Chain 0+1) 19.65dBm (MIMO Chain 0+1) (EIRP)	17M7D1D	OFDM
11n	HT40 2422-2452	7	24.16dBm (MIMO Chain 0+1) 19.64dBm (MIMO Chain 0+1) (EIRP)	36M2D1D	OFDM
Antenna Designation		PIFA Antenna, 1. 2.4GHz Gain: 1.23dBi (Main) 2. 2.4GHz Gain: -1.65dBi (Aux)			
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 – 144.4Mbps 802.11 n_40MHz: 13.5 – 300Mbps			

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1.2 Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is Phablet, supporting GSM / WCDMA / LTE, Wi-Fi 802.11abgn/ac, Bluetooth, NFC and WPC / PMA features, and below is details of information.

Product Feature	
Product Name:	Phablet
Brand Name:	HP
Model No.:	HSTNH-F606
Model Difference:	N/A
FCC ID:	B94HHF606
IC :	3905A-HHF606
GSM Operating Band(s)	GSM 850/1900MHz
GPRS / EGPRS Multi Slot Class	GPRS Class 33
WCDMA Operating Band(s)	FDD Band II / IV / V
WCDMA Rel. Version	Rel.8
LTE Operating Band(s)	FCC Band 5: Part 22. / FCC Band 2: Part 24. FCC Band 4 / 7 / 12 / 17 / 30: Part 27.
LTE Rel. Version	Rel.11
Bluetooth Version	V4.1 dual mode + HS
Wi-Fi- Specification	802.11a/b/g/n/ac
NFC Specification	NFC
Wireless Charging	WPC / PMA

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

KDB648474 D03 Wireless Chargers Battery Cover

Canada RSS-247 issue 1 May 2015

Canada RSS-Gen issue 4 Nov. 2014

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

Canada Registration Number: 4620A-5.

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 5.9dB and 10dB attenuator.

Offset:

$$= \text{RF cable loss (dB)} + \text{attenuation factor (dB)} \text{ dB} = 12.6 \text{ dB}$$

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission configuration

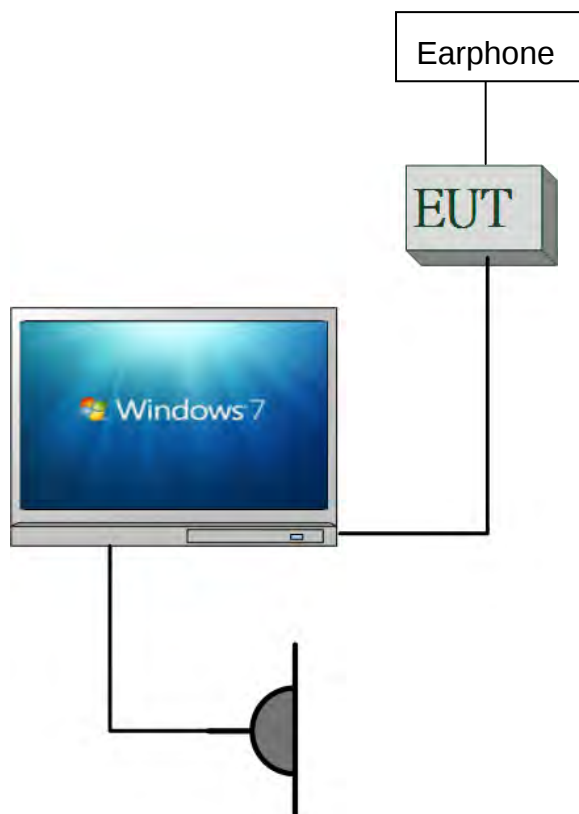
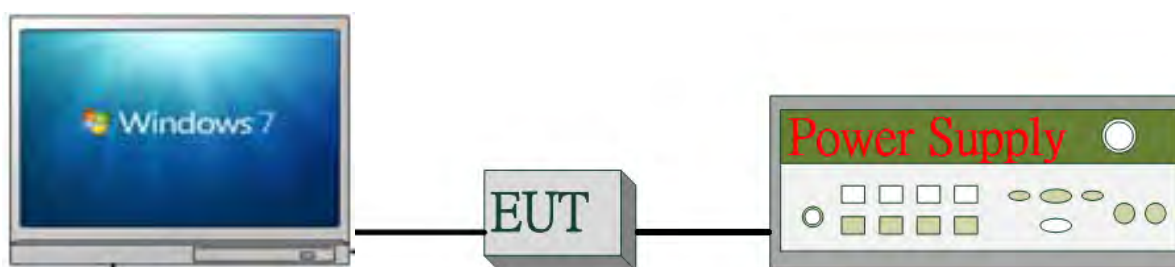


Fig. 2-2 Conducted (Antenna Port) Configuration Emission



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Fig. 2-3 AC Power Line Conducted Emission

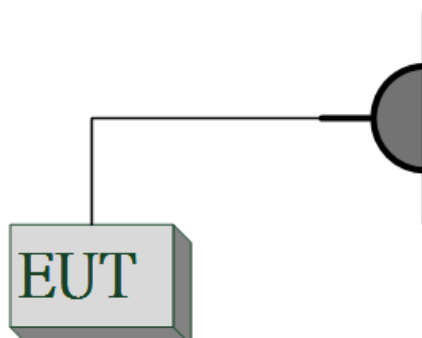


Table 2-1 Equipment Used in Tested System

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
3.	DC Power Supply	HP	E3640A	KR93300208	N/A	Un-shielded

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3 SUMMARY OF TEST RESULTS

FCC Rules / IC Rules	Description Of Test	Result
§15.207(a) RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.247(b) (3) RSS-247 §5.4(4)	Peak Output Power	Compliant
§15.247(a)(2) RSS-247 §5.2 (1) RSS-Gen §6.6	6dB & 99% Emission Bandwidth	Compliant
§15.247(d) RSS-247 §5.5	Conducted Band Edge and Spurious Emission	Compliant
§15.247(d) RSS-247 §5.5	Radiated Band Edge and Spurious Emission	Compliant
§15.247(e) RSS-247 §5.2(2)	Power Spectral Density	Compliant
§15.203 §15.247(b) RSS- Gen §6.7 RSS- Gen §8.3	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		

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4.2 The Worst Test Modes and Channel Details

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

Note: Additional emissions testing were performed per KDB 648474 D03 and the additional worst case emissions are reported herein and identified as WPC.

Per KDB 648474 D03, spurious emissions measurement data was also investigated with the wireless charging battery cover. The handset was placed on the representative charging pad under normal conditions and in a simulated call configuration.

RADIATED EMISSION TEST:

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

Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11b/g/n WLAN Transmitter for channel Low, Mid and High, the worst case E1 position was reported; as for the wireless charging mode, 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	1	MAIN
802.11g	1 to 11	1, 6, 11	OFDM	6	MAIN
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	MCS 8	MIMO
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	MCS 8	MIMO

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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(μV)	
	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	ESC17	100760	05/04/2015	05/03/2016
LISN	SCHWARZBECK	NSLK 8127	8127-649	05/15/2015	05/14/2016
LISN	FCC	FCC-LISN-50/250 -25-2-01	4034	03/13/2016	03/12/2017
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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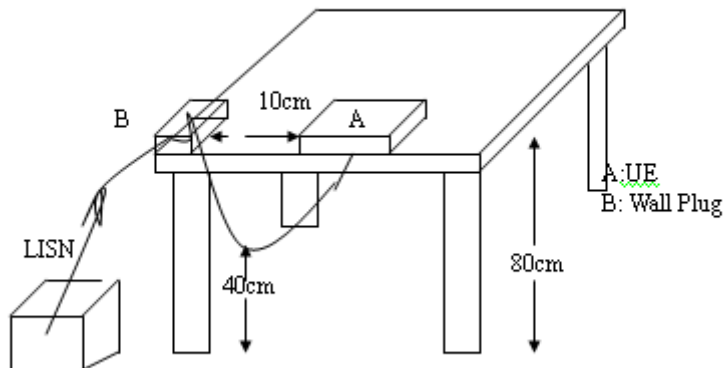
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6.4 Test SET-UP (Block Diagram of Configuration)



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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AC POWER LINE CONDUCTED EMISSION TEST DATA

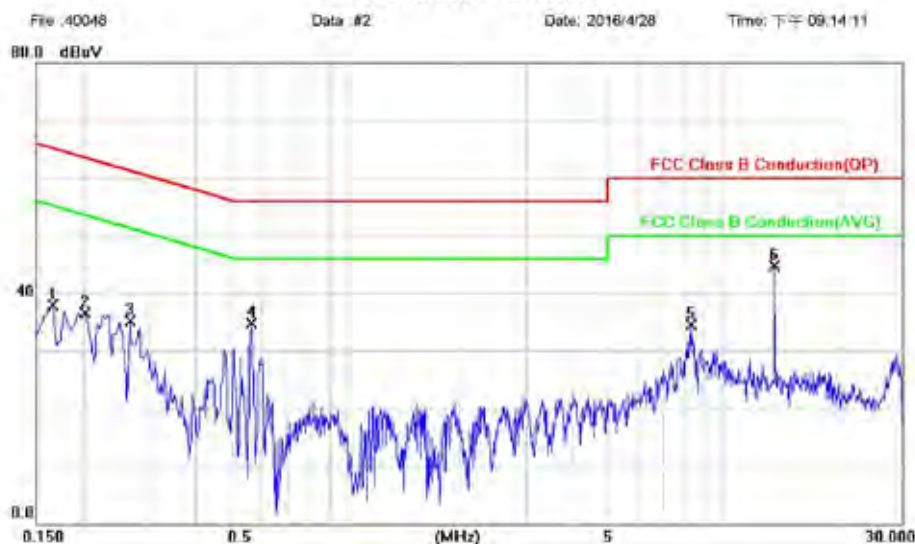
Operation Mode:	Operation mode			Test Date:	Apr. 28, 2016
Temperature:	20	Humidity:	58 %	Test By:	Tin
Adapter:	Model No.: WAD005			Phase:	L1

Site: Conduction Room
Limit: FCC Class B Conduction(QP)
Mode: Operation
Note: Adapter: WAD005

Phase: L1
Power: AC 120V/60Hz

Temperature: 20 °C
Humidity: 58 %

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1660	37.84	0.03	37.87	65.16	-27.29	peak	
2		0.2020	36.49	0.03	36.52	63.53	-27.01	peak	
3		0.2660	34.98	0.03	35.01	61.24	-26.23	peak	
4		0.5620	34.66	0.03	34.69	56.00	-21.31	peak	
5		8.2620	34.26	0.27	34.53	60.00	-25.47	peak	
6		13.7740	44.46	0.33	44.79	60.00	-15.21	peak	

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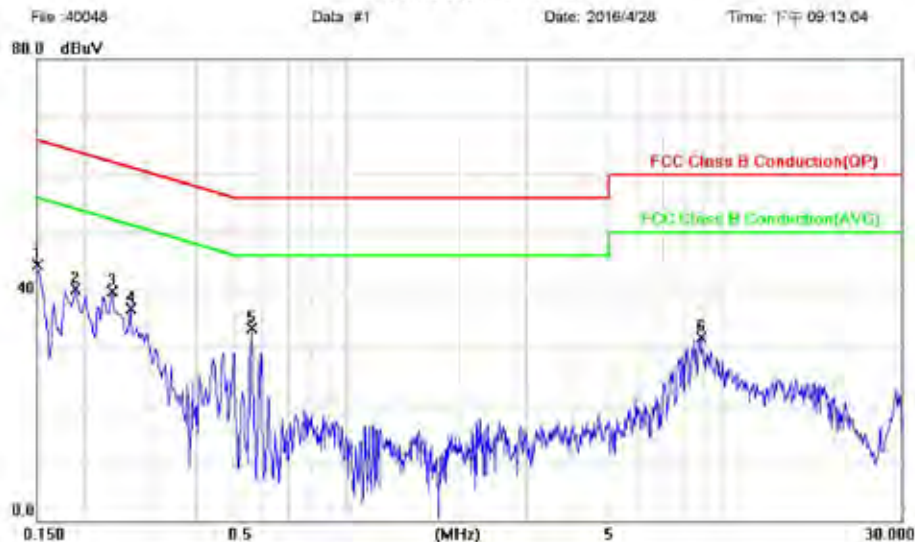
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Site: Conduction Room
Limit: FCC Class B Conduction(QP)
Mode: Operation
Note: Adapter: WAD005

Phase: **N**
Power: AC 120V/60Hz

Temperature: 20 °C
Humidity: 58 %

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1500	44.34	0.03	44.37	66.00	-21.63	peak	
2		0.1900	40.14	0.03	40.17	64.04	-23.87	peak	
3		0.2380	39.73	0.03	39.76	62.17	-22.41	peak	
4		0.2660	36.59	0.03	36.62	61.24	-24.62	peak	
5		0.5620	33.31	0.03	33.34	58.00	-22.66	peak	
6		8.7900	31.39	0.28	31.67	60.00	-28.33	peak	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

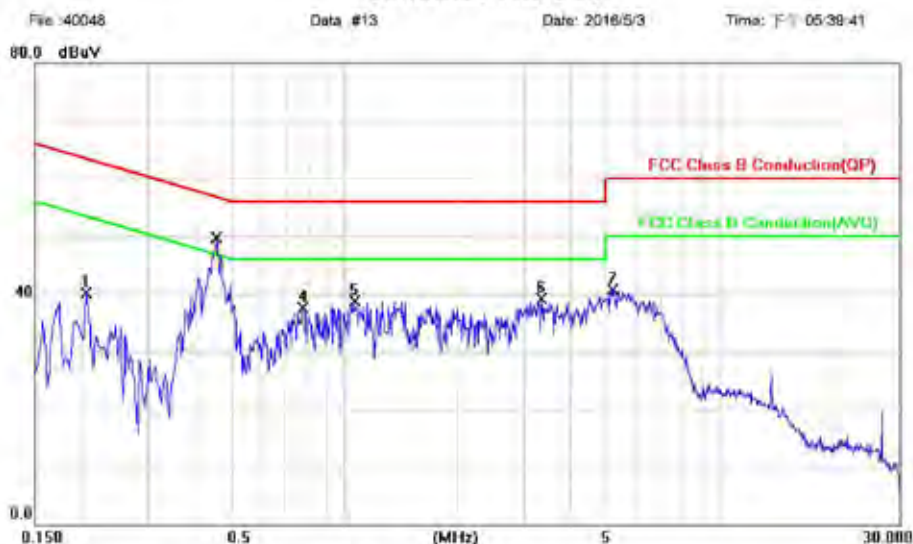
Operation Mode:	Operation mode			Test Date:	May 03, 2016
Temperature:	20	Humidity:	58 %	Test By:	Tin
Adapter:	Model No.: TPN-AA01			Phase:	L1

Site: Conduction Room
Limit: FCC Class B Conduction(QP)
Mode: Operation
Note: Adapter: TPN-AA01

Phase: L1
Power: AC 120V/60Hz

Temperature: 20 °C
Humidity: 58 %

Conducted Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2060	40.16	0.01	40.17	63.37	-23.20	peak	
2		0.4550	47.80	0.01	47.81	56.78	-8.97	QP	
3 *		0.4550	41.20	0.01	41.21	46.78	-5.57	AVG	
4		0.7780	37.52	0.02	37.54	56.00	-18.46	peak	
5		1.0700	38.75	0.02	38.77	56.00	-17.23	peak	
6		3.3540	39.07	0.12	39.19	58.00	-18.81	peak	
7		5.2140	40.45	0.21	40.66	60.00	-19.34	peak	

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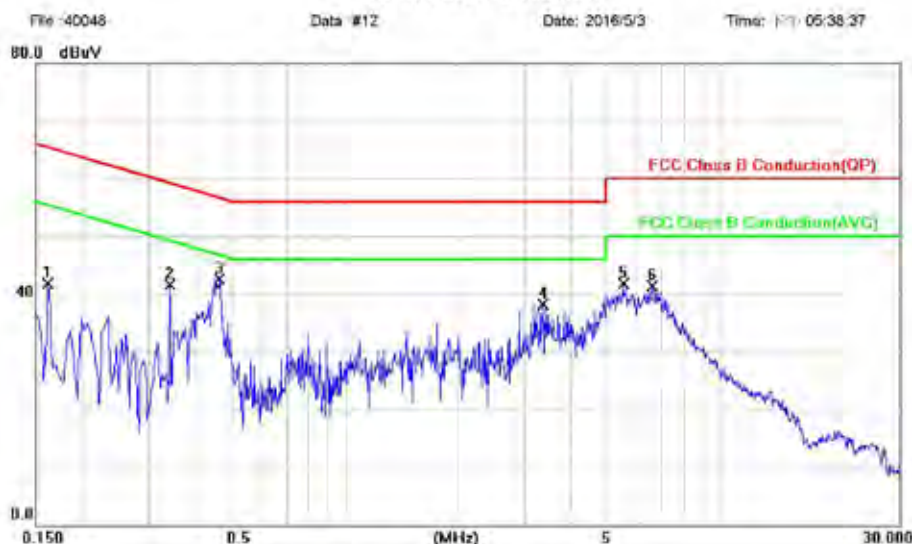
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Site: Conduction Room Phase: **N** Temperature: 20 °C
Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 58 %
Mode: Operation
Note: Adapter: TPN-AA01

Conducted Emission



No.	Mk	Freq	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1		0.1620	41.65	0.03	41.68	65.36	-23.68	peak	
2		0.3420	41.42	0.03	41.45	59.15	-17.70	peak	
3 *		0.4660	42.56	0.03	42.59	56.58	-13.99	peak	
4		3.3700	38.01	0.13	38.14	56.00	-17.86	peak	
5		5.5140	41.45	0.22	41.67	60.00	-18.33	peak	
6		6.6020	40.98	0.24	41.22	60.00	-18.78	peak	

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7 DUTY CYCLE OF TEST SIGNAL

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

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

Formula:

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

Measurement Procedure:

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

Duty Cycle:

	Duty Cycle (%)	Duty Factor (dB)
802.11b	99.00	0.04
802.11g	95.05	0.22
802.11n_20	90.78	0.42
802.11n_40	82.52	0.83

$$b = 99\%, g = 95.05\%, n_{ht_20} = 90.78\%, n_{ht40} = 82.52\%$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.99) = 0.04$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9505) = 0.22$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9078) = 0.42$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.8252) = 0.83$$

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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.

Per RSS-247 §5.4(4)

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

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

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

Note:

Antenna1 Gain: 1.23 dBi

Antenna2 Gain: -1.65 dBi

Number Antenna: 2 pcs

Limit: 8 dBm

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

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

Effective Legacy Gain (dBi) = 2.92 dBi

Limit: 8dBm – (2.92– 6dBi)=8

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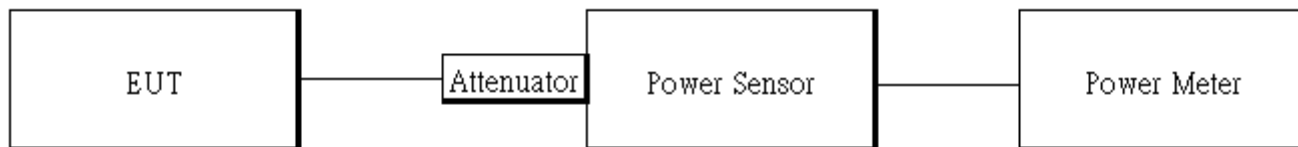
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8.2 Measurement Equipment Used

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
Spectrum Analyzer	Agilent	N9010A	MY50420195	12/21/2015	12/20/2016
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	05/17/2015	05/16/2016

8.3 Test Set-up

Power Meter:



8.4 Measurement Procedure

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

Power Meter:

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

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

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8.5 Measurement Result

802.11b Main						
CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
1	2412	1	19.35	86.10	1 Watt = 30.00 dBm	PASS
6	2437	1	19.38	86.70	1 Watt = 30.00 dBm	PASS
11	2462	1	19.45	88.10	1 Watt = 30.00 dBm	PASS

802.11b Main						
CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
1	2412	1	16.85	48.42	1 Watt = 30.00 dBm	PASS
6	2437	1	16.91	49.09	1 Watt = 30.00 dBm	PASS
11	2462	1	16.82	48.08	1 Watt = 30.00 dBm	PASS

802.11g Main						
CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
1	2412	6	22.99	199.07	1 Watt = 30.00 dBm	PASS
6	2437	6	23.1	204.17	1 Watt = 30.00 dBm	PASS
11	2462	6	22.94	196.79	1 Watt = 30.00 dBm	PASS

802.11g Main						
CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
1	2412	6	16.92	49.20	1 Watt = 30.00 dBm	PASS
6	2437	6	16.93	49.32	1 Watt = 30.00 dBm	PASS
11	2462	6	16.88	48.75	1 Watt = 30.00 dBm	PASS

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802.11n_HT20M Main

CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
1	2412	MCS0	20.39	109.40	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	20.64	115.88	1 Watt = 30.00 dBm	PASS
11	2462	MCS0	20.67	116.68	1 Watt = 30.00 dBm	PASS

802.11n_HT20M Main

CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
1	2412	MCS0	13.89	24.49	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	13.93	24.72	1 Watt = 30.00 dBm	PASS
11	2462	MCS0	13.94	24.77	1 Watt = 30.00 dBm	PASS

802.11n_HT20M Aux1

CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
1	2412	MCS0	20.34	108.14	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	20.33	107.89	1 Watt = 30.00 dBm	PASS
11	2462	MCS0	20.34	108.14	1 Watt = 30.00 dBm	PASS

802.11n_HT20M Aux1

CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
1	2412	MCS0	13.75	23.71	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	13.76	23.77	1 Watt = 30.00 dBm	PASS
11	2462	MCS0	13.79	23.93	1 Watt = 30.00 dBm	PASS

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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				
1	2412	MCS8	20.47	20.41	23.45	221.33	1 Watt = 30.00 dBm	PASS
6	2437	MCS8	20.67	20.32	23.51	224.33	1 Watt = 30.00 dBm	PASS
11	2462	MCS8	20.53	20.25	23.40	218.90	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				
1	2412	MCS8	13.81	13.61	16.72	47.01	1 Watt = 30.00 dBm	PASS
6	2437	MCS8	13.77	13.59	16.69	46.68	1 Watt = 30.00 dBm	PASS
11	2462	MCS8	13.74	13.71	16.74	47.16	1 Watt = 30.00 dBm	PASS

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802.11n_HT40M Main

CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
3	2422	MCS0	21.15	130.32	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	21.34	136.14	1 Watt = 30.00 dBm	PASS
9	2452	MCS0	21.39	137.72	1 Watt = 30.00 dBm	PASS

802.11n_HT40M Main

CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
3	2422	MCS0	13.99	25.06	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	13.99	25.06	1 Watt = 30.00 dBm	PASS
9	2452	MCS0	13.98	25.00	1 Watt = 30.00 dBm	PASS

802.11n_HT40M Aux1

CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
3	2422	MCS0	21.23	132.74	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	21.07	127.94	1 Watt = 30.00 dBm	PASS
9	2452	MCS0	21.25	133.35	1 Watt = 30.00 dBm	PASS

802.11n_HT40M Aux1

CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
3	2422	MCS0	13.79	23.93	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	13.95	24.83	1 Watt = 30.00 dBm	PASS
9	2452	MCS0	13.91	24.60	1 Watt = 30.00 dBm	PASS

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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				
3	2422	MCS8	21.28	20.79	24.05	254.23	1 Watt = 30.00 dBm	PASS
6	2437	MCS8	21.35	20.94	24.16	260.62	1 Watt = 30.00 dBm	PASS
9	2452	MCS8	21.18	20.74	23.98	249.80	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				
3	2422	MCS8	13.70	13.48	16.60	45.73	1 Watt = 30.00 dBm	PASS
6	2437	MCS8	13.82	13.56	16.70	46.80	1 Watt = 30.00 dBm	PASS
9	2452	MCS8	13.79	13.62	16.72	46.95	1 Watt = 30.00 dBm	PASS

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

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EIRP

802.11b Main							
CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
1	2412	1	16.85	1.23	18.08	4W= 36 dBm	PASS
6	2437	1	16.91	1.23	18.14	4W= 36 dBm	PASS
11	2462	1	16.82	1.23	18.05	4W= 36 dBm	PASS

802.11g Main							
CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
1	2412	6	16.92	1.23	18.15	4W= 36 dBm	PASS
6	2437	6	16.93	1.23	18.16	4W= 36 dBm	PASS
11	2462	6	16.88	1.23	18.11	4W= 36 dBm	PASS

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802.11n_HT20M Main

CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
1	2412	MCS0	13.89	1.23	15.12	4W= 36 dBm	PASS
6	2437	MCS0	13.93	1.23	15.16	4W= 36 dBm	PASS
11	2462	MCS0	13.94	1.23	15.17	4W= 36 dBm	PASS

802.11n_HT20M Aux1

CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
1	2412	MCS0	13.75	-1.65	12.10	4W= 36 dBm	PASS
6	2437	MCS0	13.76	-1.65	12.11	4W= 36 dBm	PASS
11	2462	MCS0	13.79	-1.65	12.14	4W= 36 dBm	PASS

802.11n_HT20M MIMO

CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)		Avg. Output Power (dBm)	Total Peak Output Power (mW)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
			CH 0	CH 1						
1	2412	MCS8	13.81	13.61	16.72	47.01	2.92	19.64	4W= 36 dBm	PASS
6	2437	MCS8	13.77	13.59	16.69	46.68	2.92	19.61	4W= 36 dBm	PASS
11	2462	MCS8	13.74	13.71	16.74	47.16	2.92	19.65	4W= 36 dBm	PASS

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802.11n_HT40M Main

CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
3	2422	MCS0	13.99	1.23	15.22	4W= 36 dBm	PASS
6	2437	MCS0	13.99	1.23	15.22	4W= 36 dBm	PASS
9	2452	MCS0	13.98	1.23	15.21	4W= 36 dBm	PASS

802.11n_HT40M Aux1

CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
3	2422	MCS0	13.79	-1.65	12.14	4W= 36 dBm	PASS
6	2437	MCS0	13.95	-1.65	12.30	4W= 36 dBm	PASS
9	2452	MCS0	13.91	-1.65	12.26	4W= 36 dBm	PASS

802.11n_HT40M MIMO

CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)		Avg. Output Power (dBm)	Total Peak Output Power (mW)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
			CH 0	CH 1						
3	2422	MCS8	13.70	13.48	16.60	45.73	2.92	19.52	4W= 36 dBm	PASS
6	2437	MCS8	13.82	13.56	16.70	46.80	2.92	19.62	4W= 36 dBm	PASS
9	2452	MCS8	13.79	13.62	16.72	46.95	2.92	19.64	4W= 36 dBm	PASS

* **Note:** EIRP = Average Power + Gain

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9 6DB & 99% BANDWIDTH MEASUREMENT

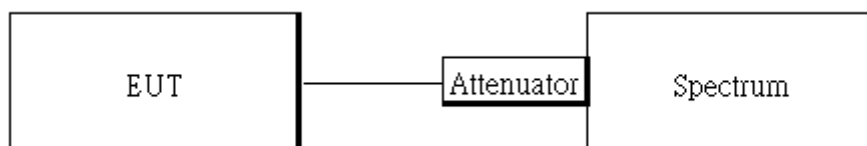
9.1 Standard Applicable

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

9.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY50420195	12/21/2015	12/20/2016
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	8071	> 500	PASS
2437	8082	> 500	PASS
2462	7600	> 500	PASS

802.11g Main

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	16080	> 500	PASS
2437	16330	> 500	PASS
2462	15960	> 500	PASS

802.11_n_HT20 Main

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	16510	> 500	PASS
2437	16930	> 500	PASS
2462	15750	> 500	PASS

802.11_n_HT20 Aux1

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	16540	> 500	PASS
2437	16930	> 500	PASS
2462	17180	> 500	PASS

802.11_n_HT40 Main

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2422	35350	> 500	PASS
2437	35730	> 500	PASS
2452	35370	> 500	PASS

802.11_n_HT40 Aux1

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2422	35750	> 500	PASS
2437	36280	> 500	PASS
2452	35170	> 500	PASS

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99% Bandwidth

802.11b Main	
Frequency (MHz)	99%Bandwidth (MHz)
2412	12.909
2437	13.423
2462	12.699

802.11g Main	
Frequency (MHz)	99%Bandwidth (MHz)
2412	16.493
2437	16.481
2462	16.445

802.11n_HT20M Main	
Frequency (MHz)	99%Bandwidth (MHz)
2412	17.708
2437	17.645
2462	17.726

802.11n_HT20M Aux1	
Frequency (MHz)	99%Bandwidth (MHz)
2412	17.635
2437	17.609
2462	17.652

802.11n_HT40M Main	
Frequency (MHz)	99%Bandwidth (MHz)
2422	36.197
2437	33.447
2452	35.195

802.11n_HT40M Aux1	
Frequency (MHz)	99%Bandwidth (MHz)
2422	36.204
2437	35.683
2452	36.097

**Refer to next page for plots*

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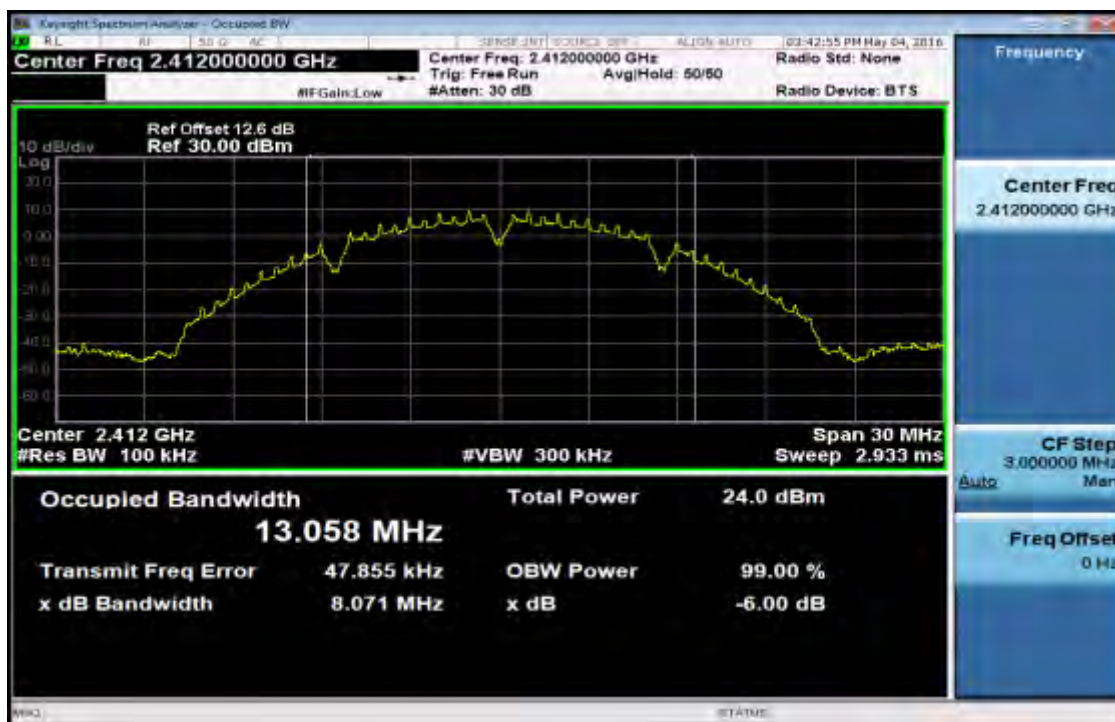
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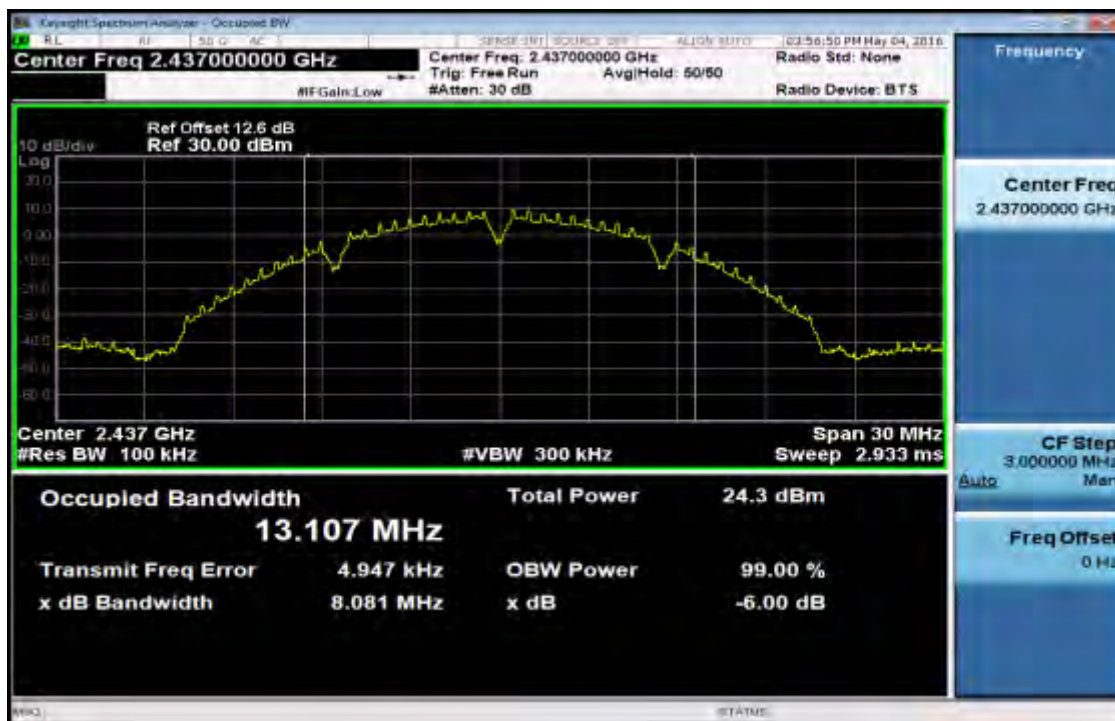
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802.11b (Main)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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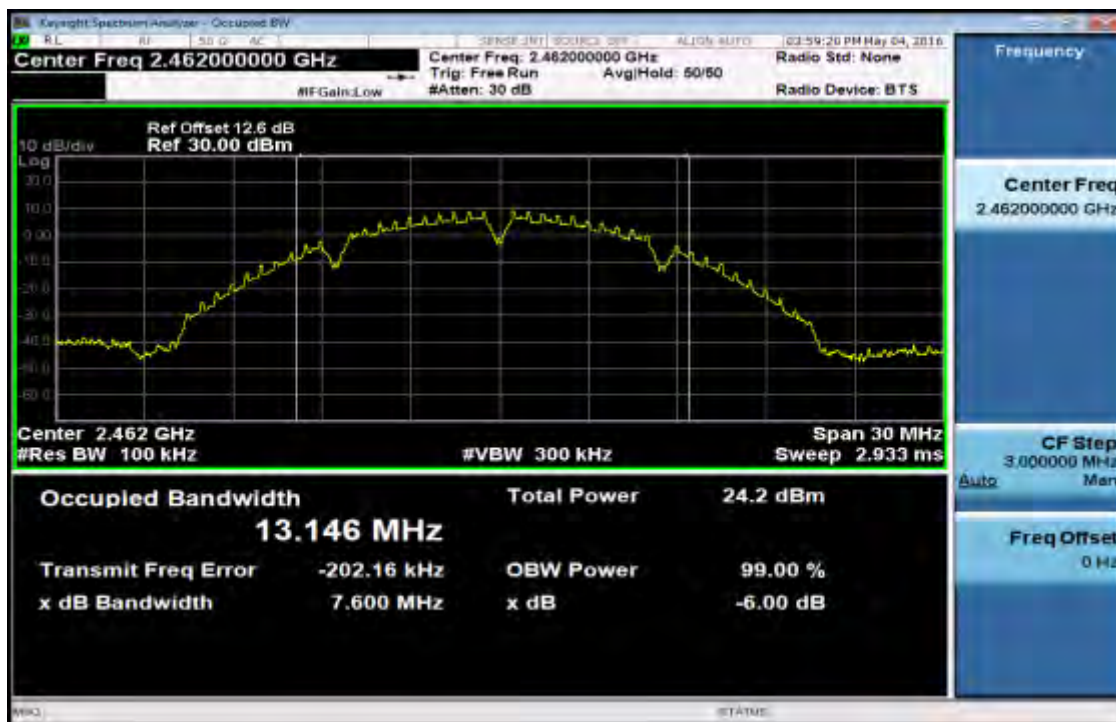
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6dB Band Width Test Data CH-High



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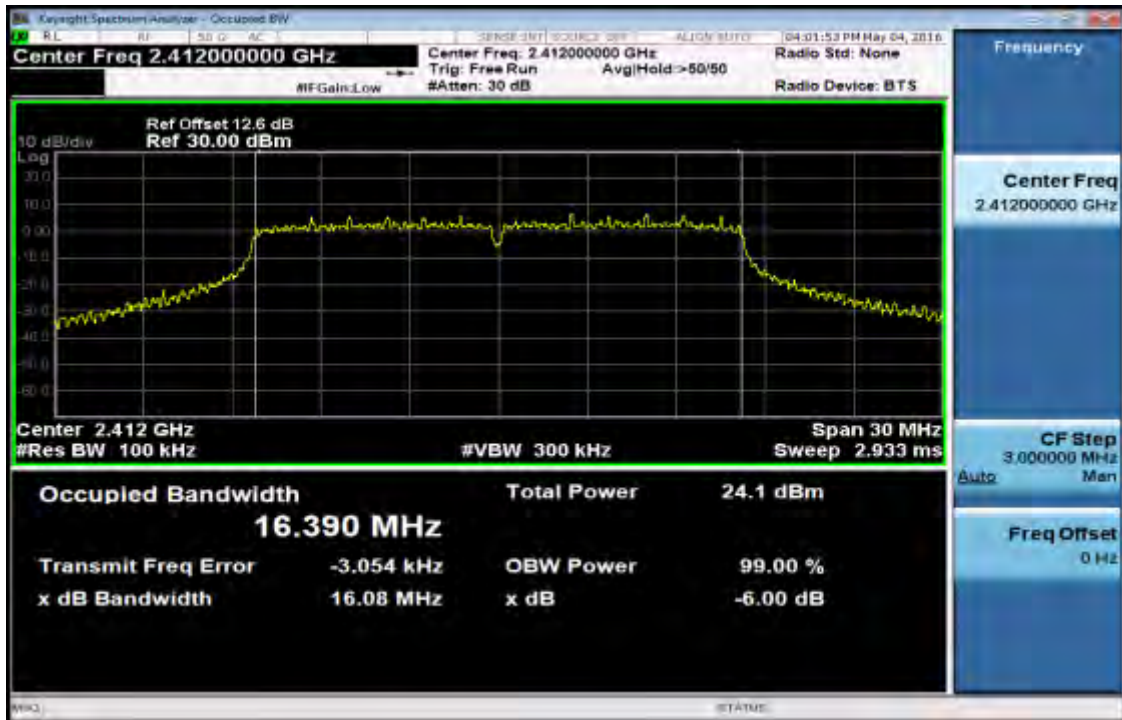
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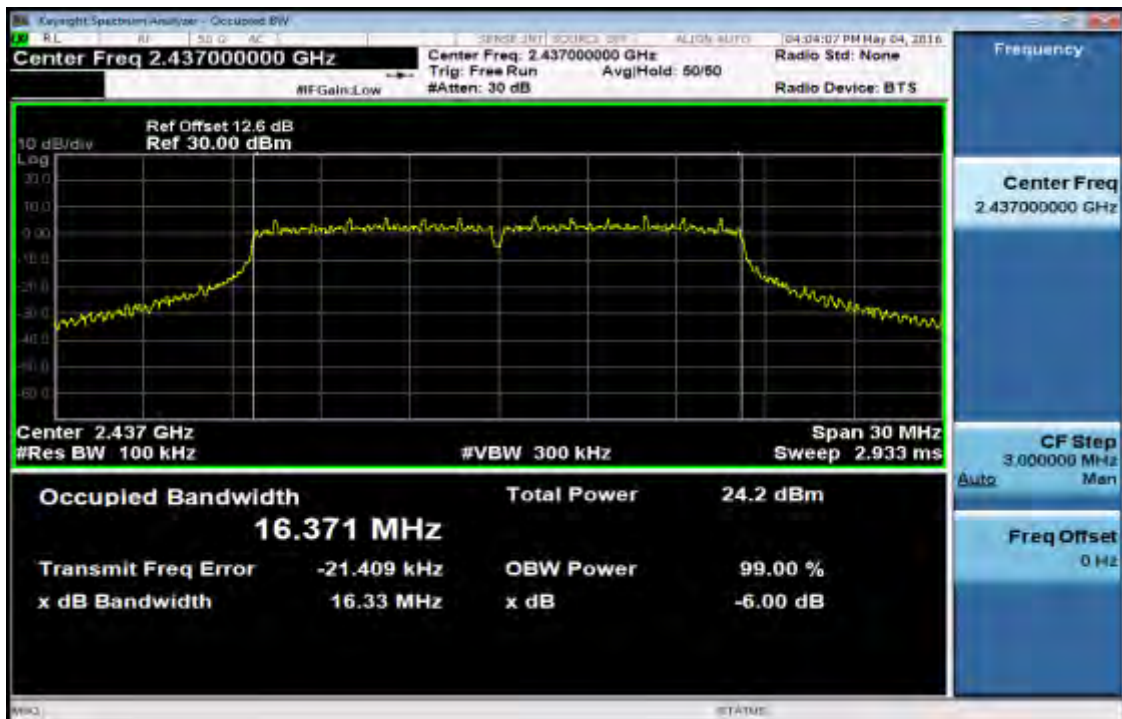
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802.11g (Main)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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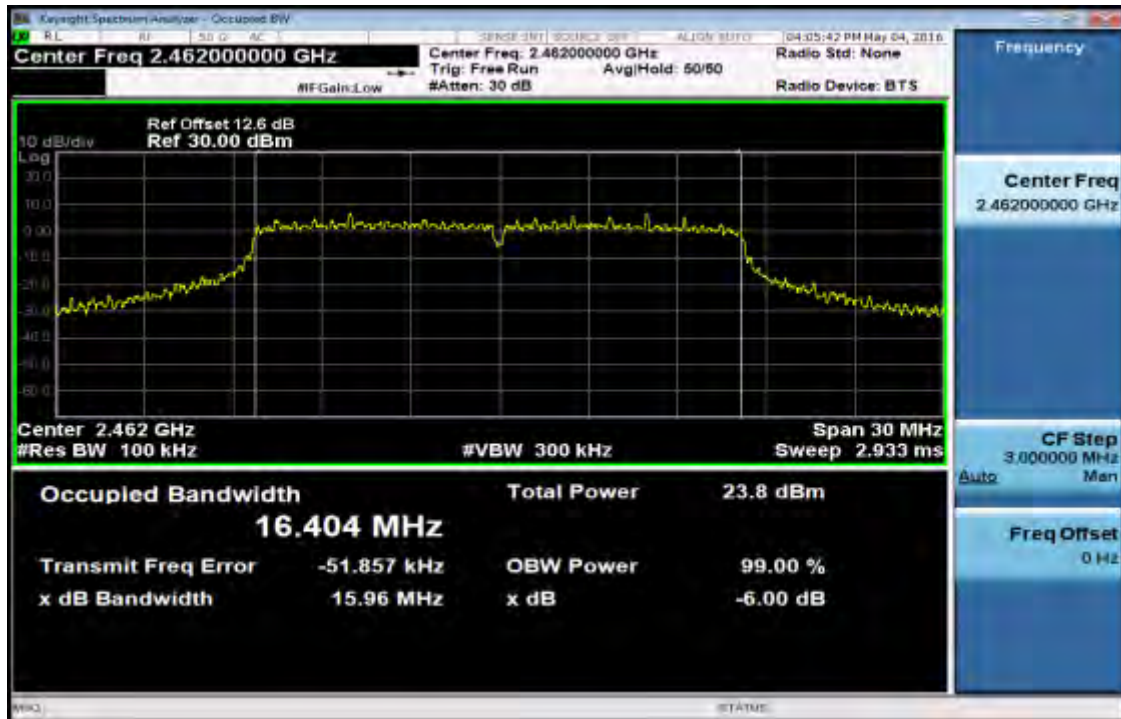
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6dB Band Width Test Data CH-High



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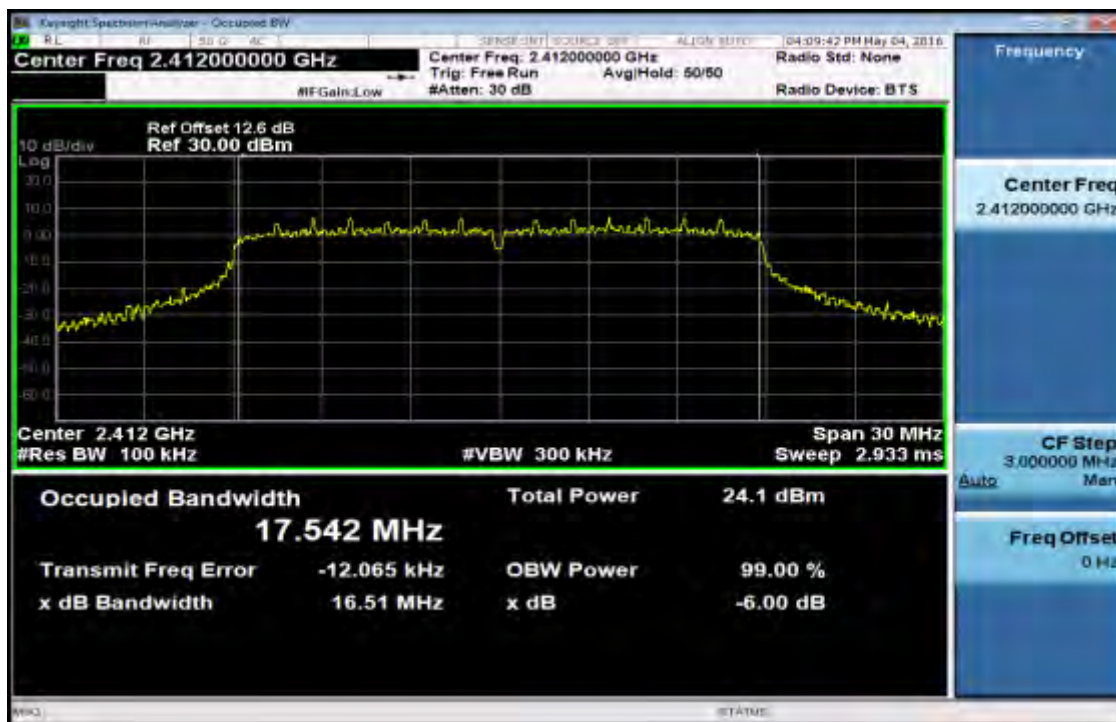
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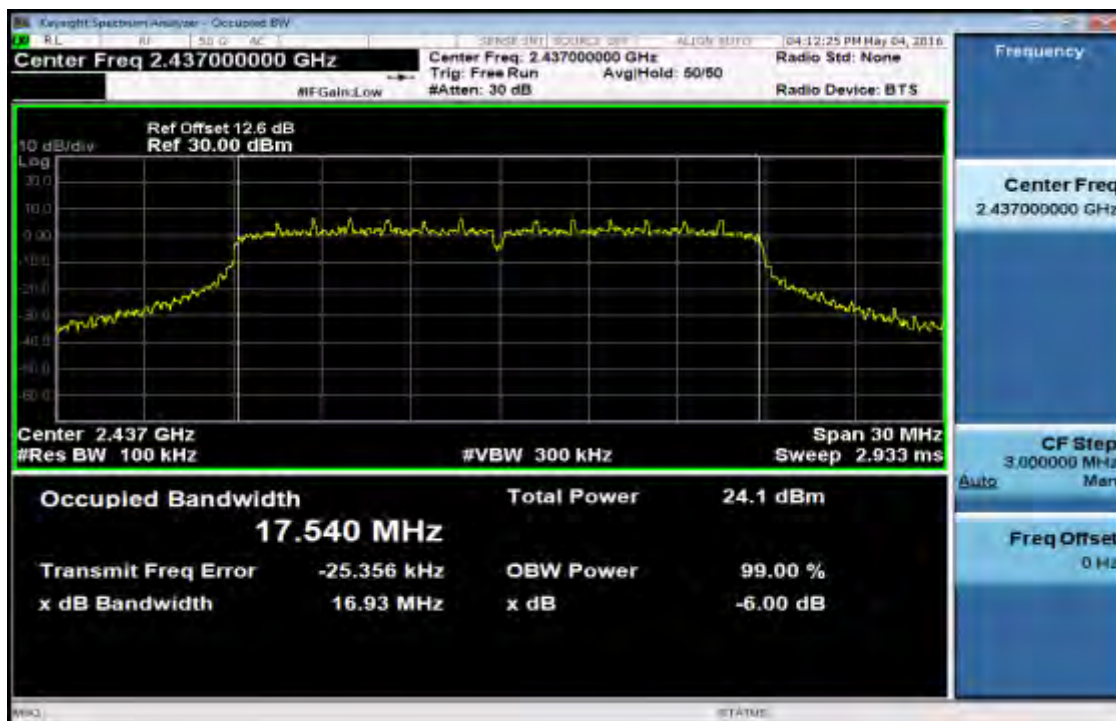
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802.11n_20M (Main)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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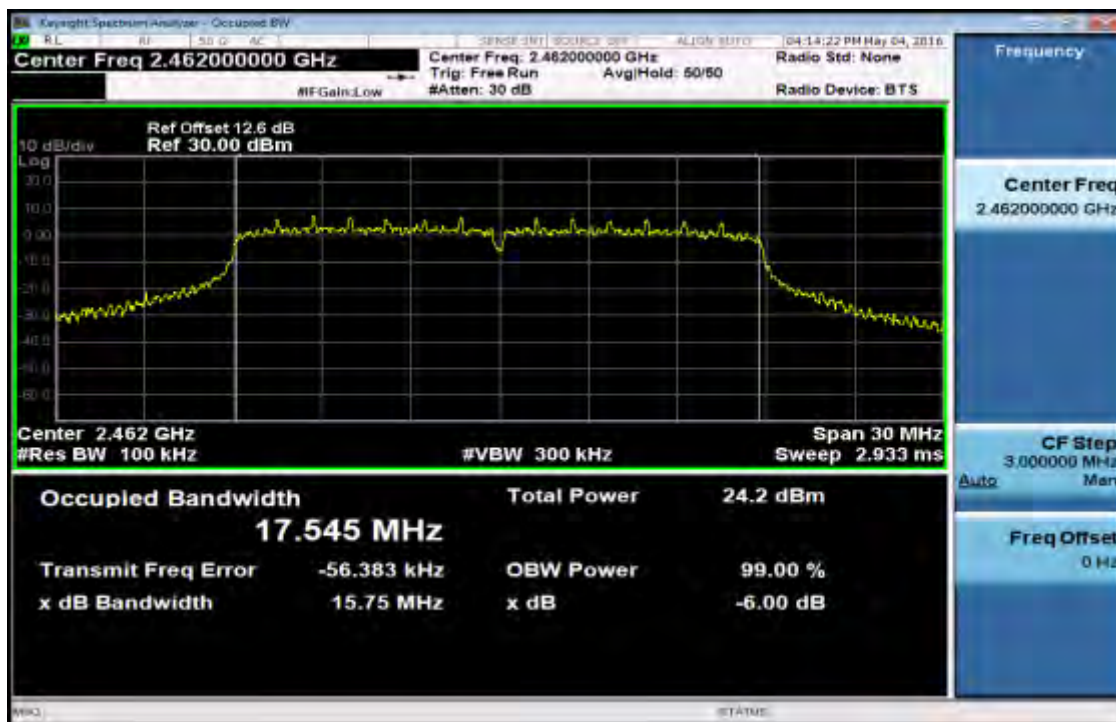
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6dB Band Width Test Data CH-High



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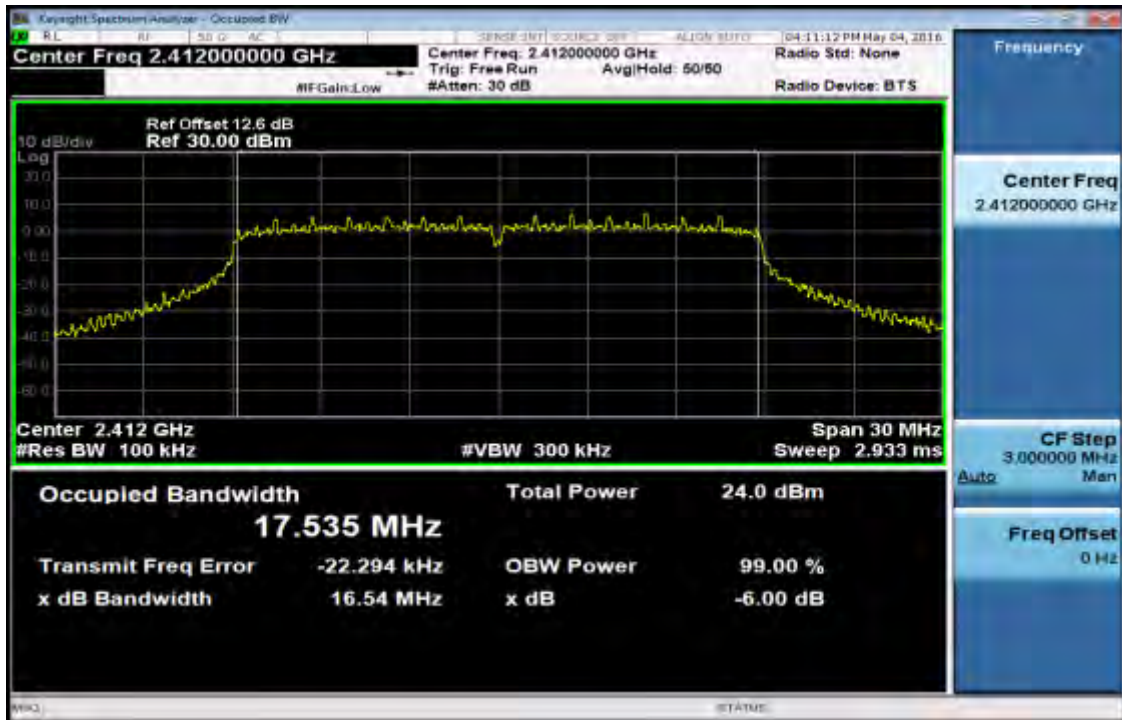
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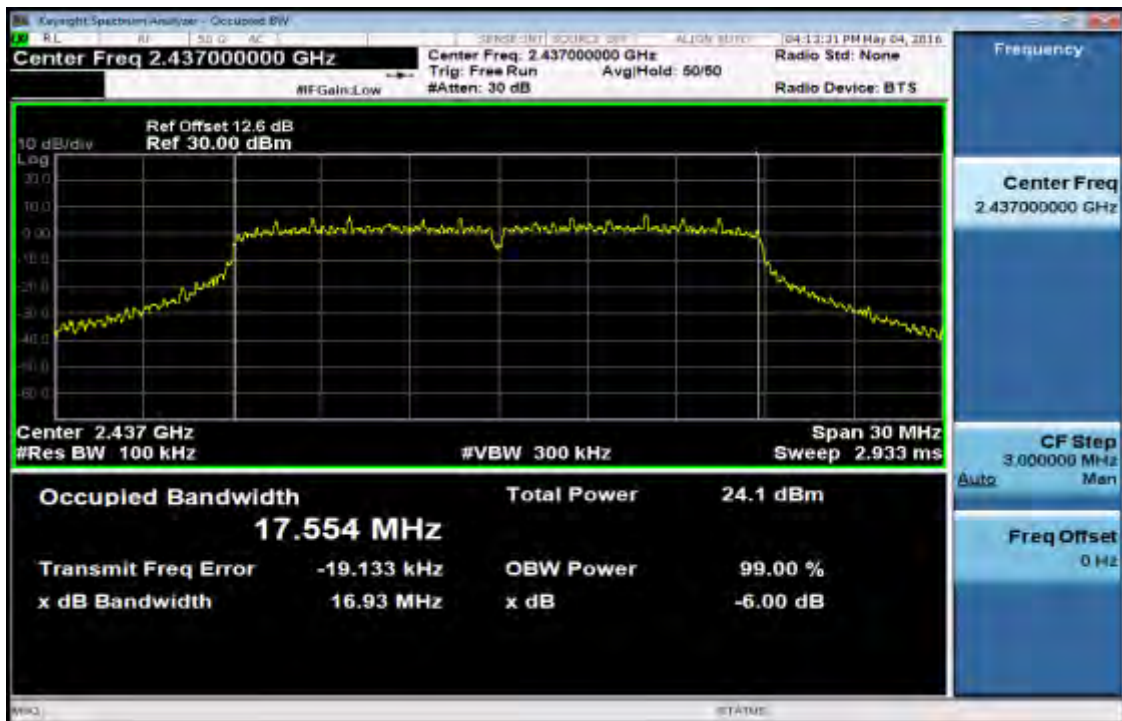
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802.11n_20M (AUX1)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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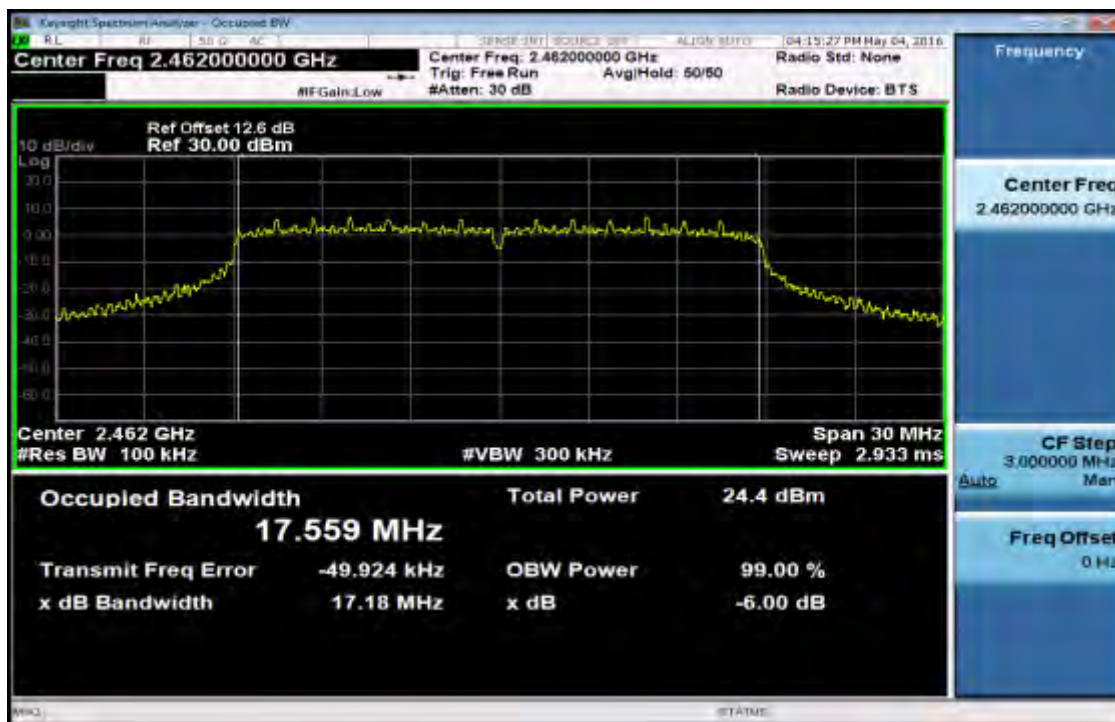
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6dB Band Width Test Data CH-High



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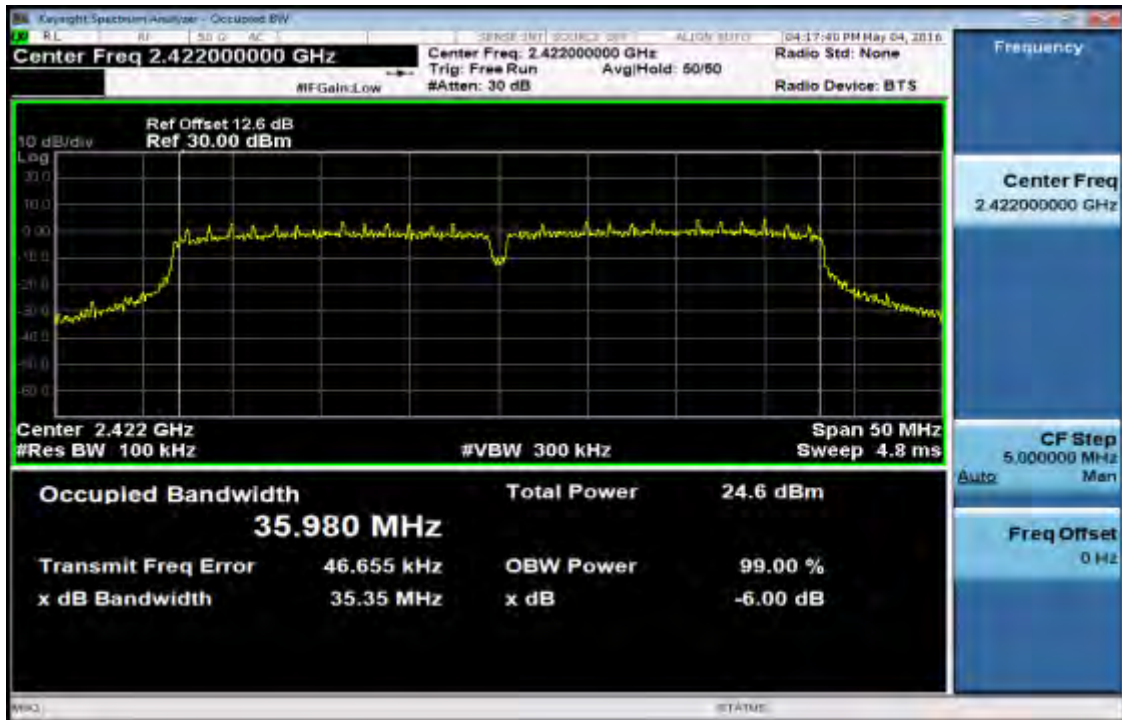
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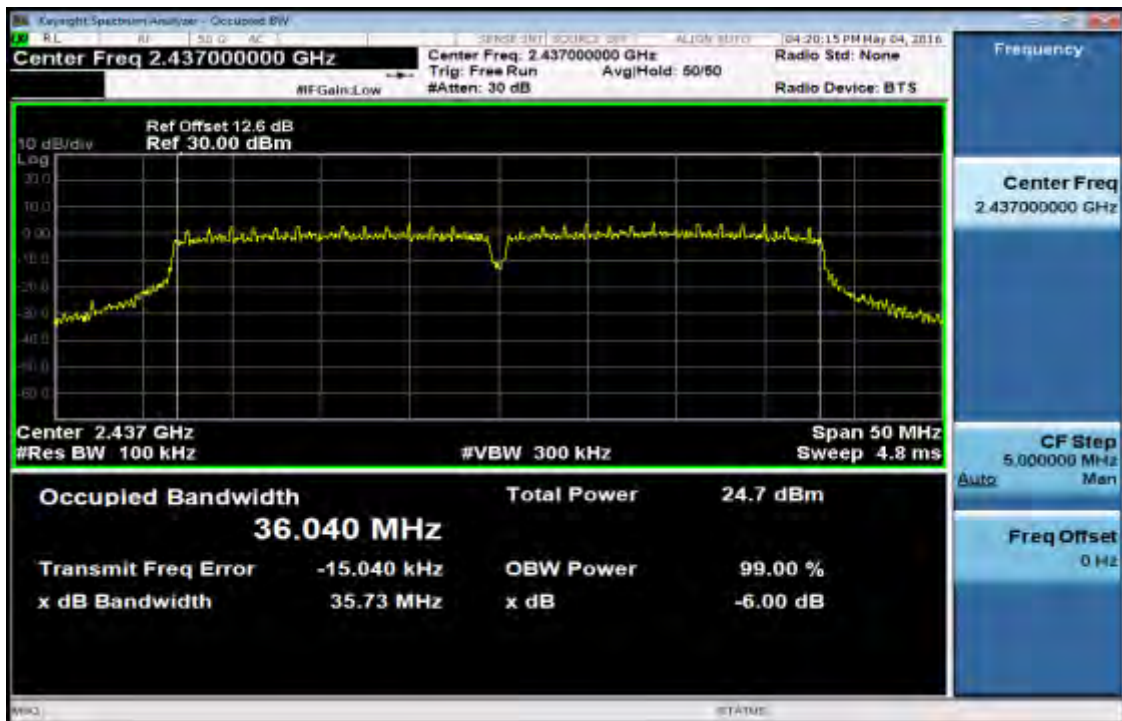
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802.11n_40M (Main)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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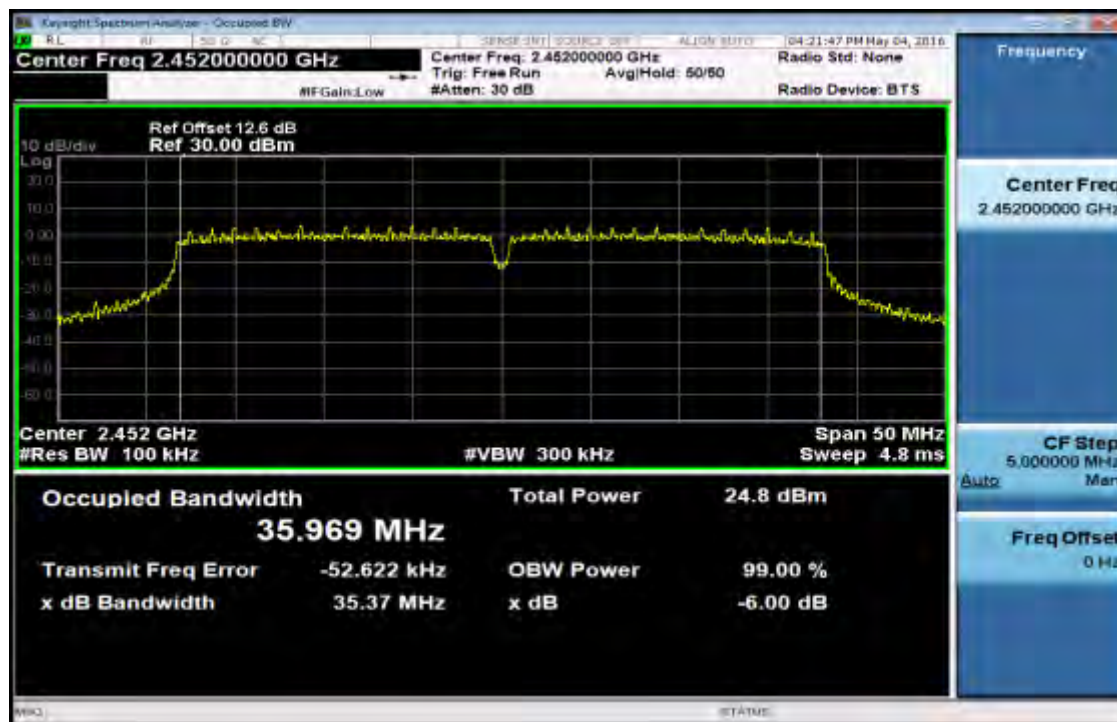
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6dB Band Width Test Data CH-High



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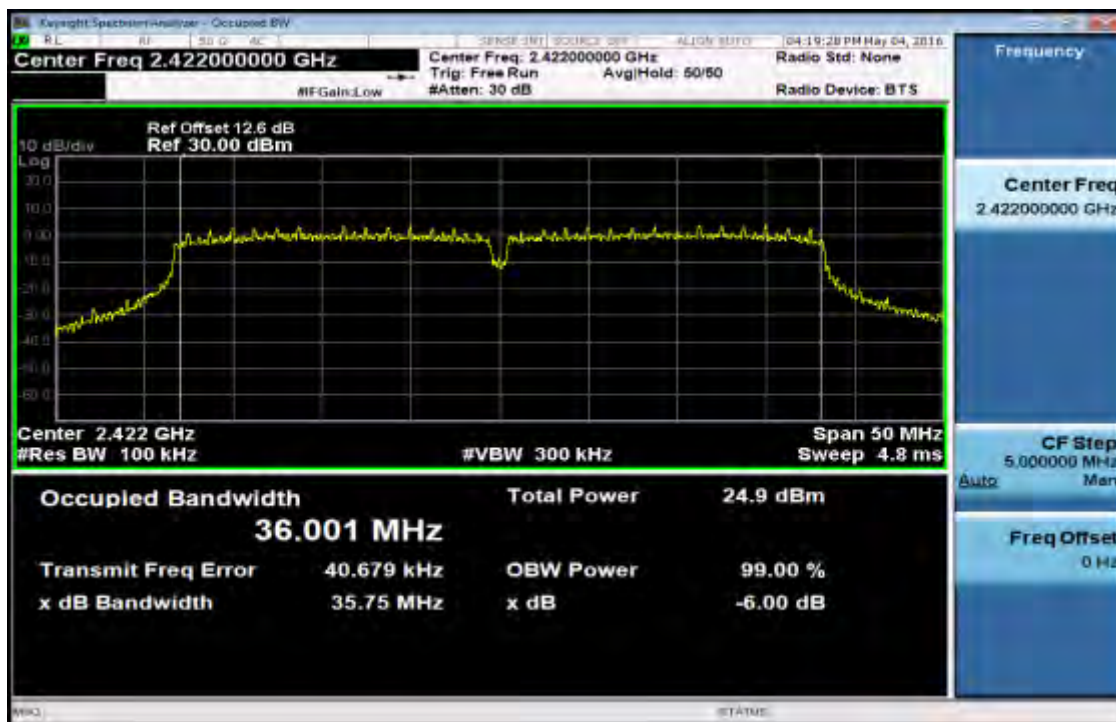
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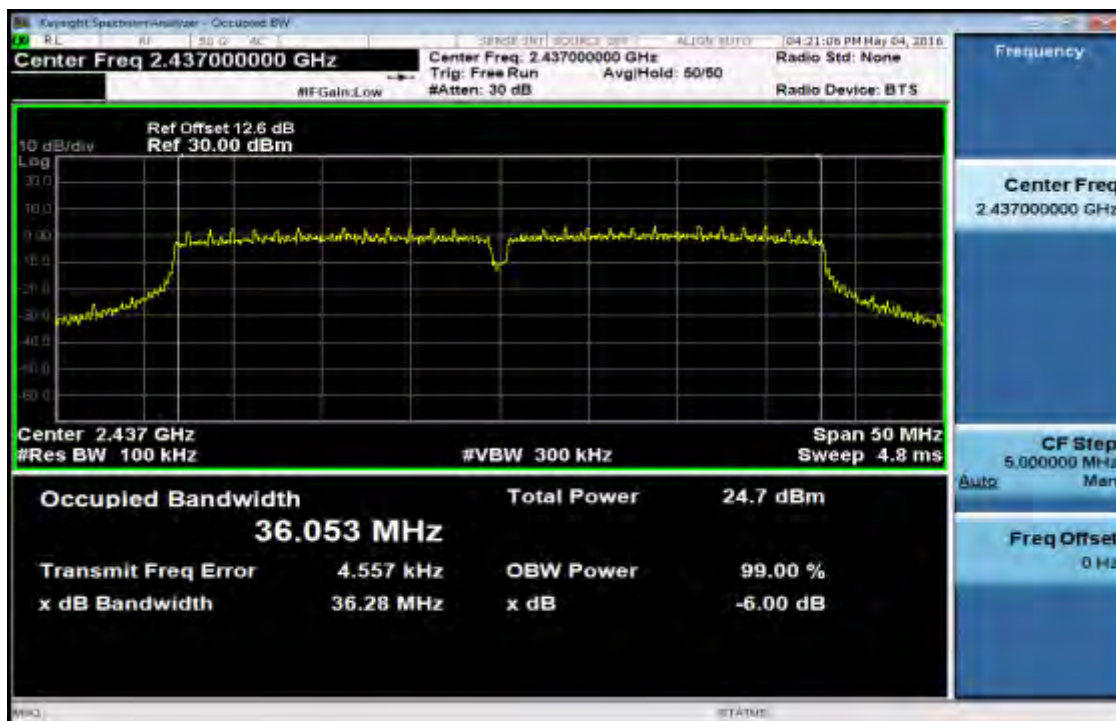
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802.11n_40M (AUX1)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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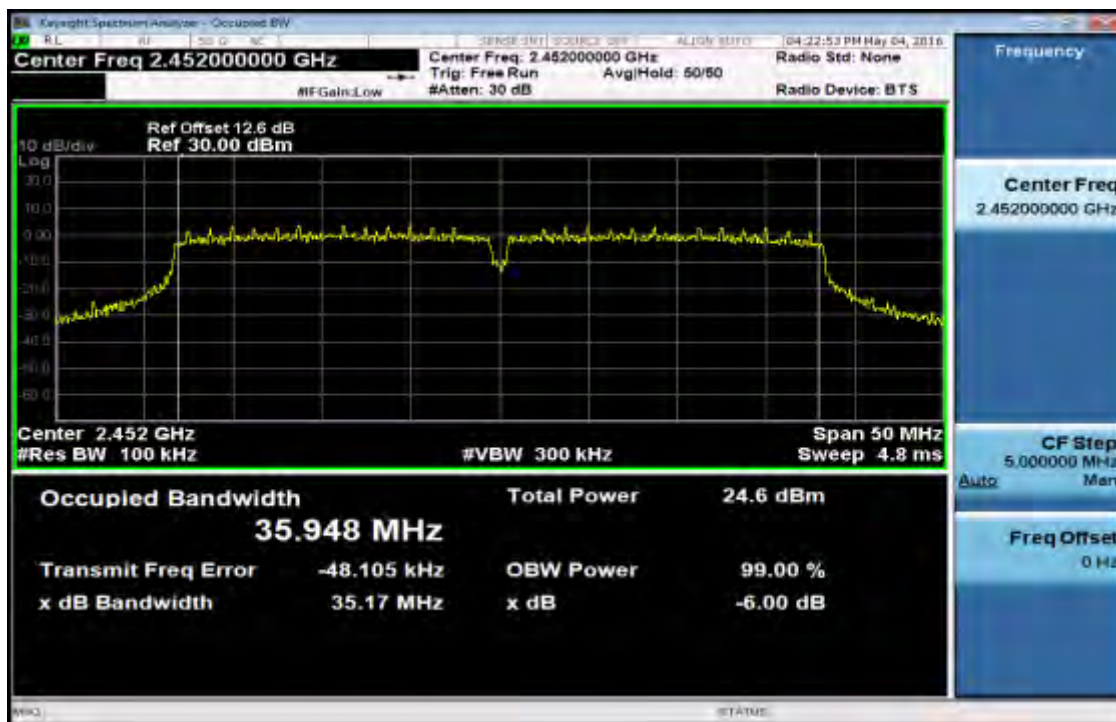
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6dB Band Width Test Data CH-High



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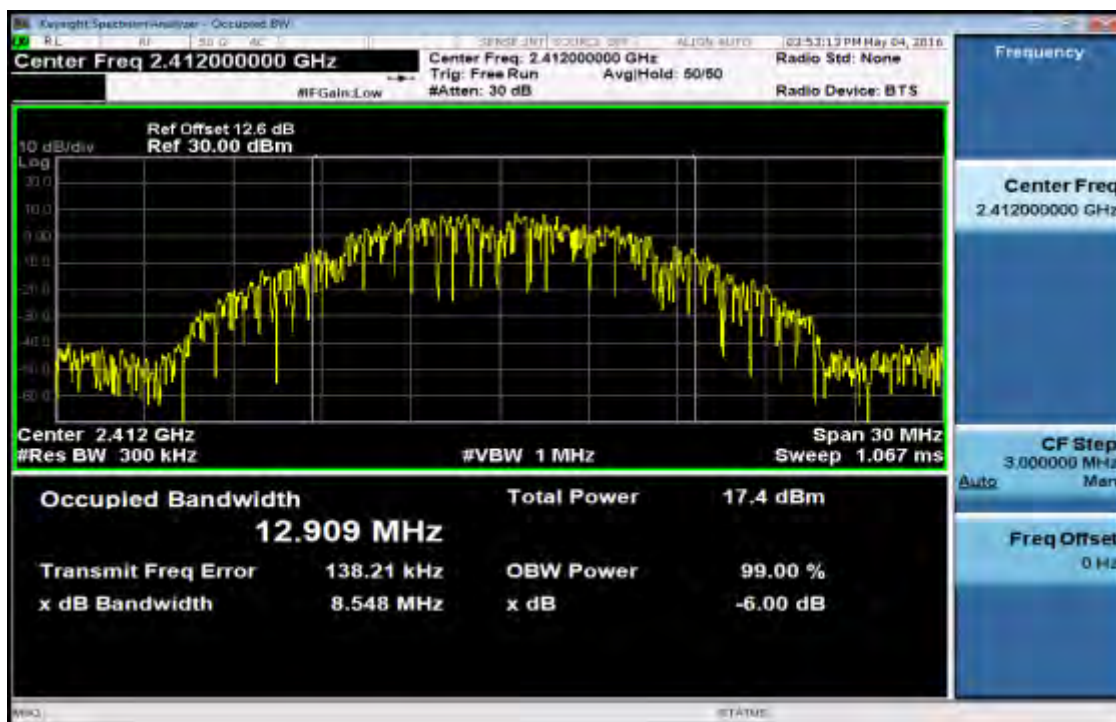
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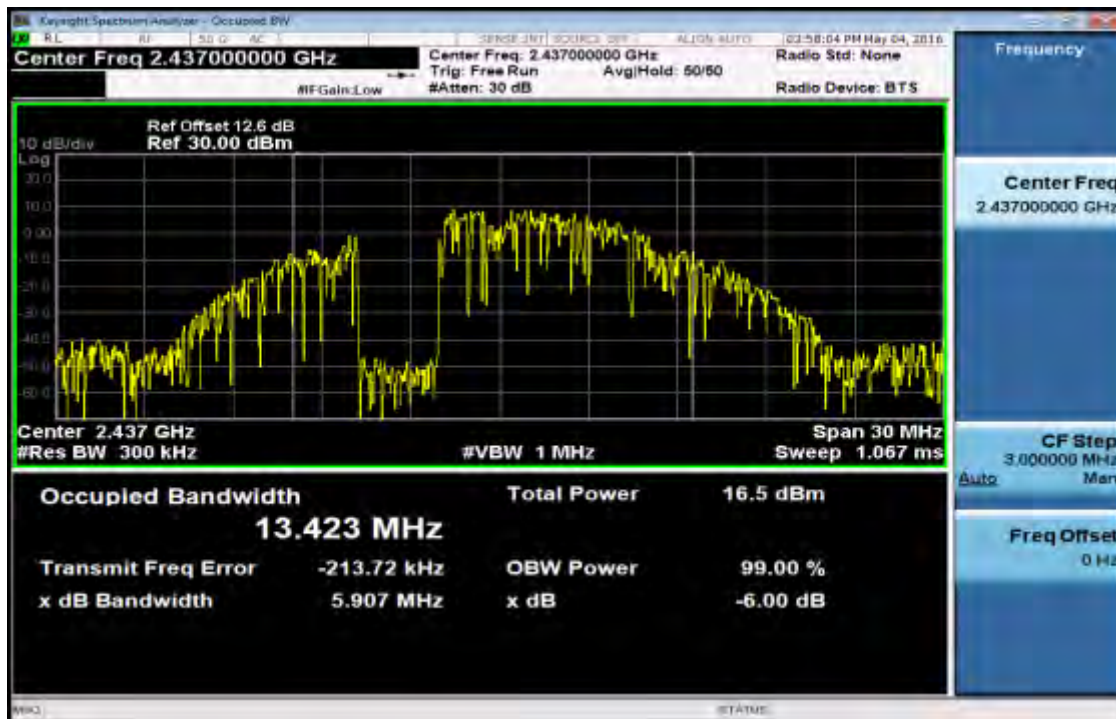
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802.11b (Main) 99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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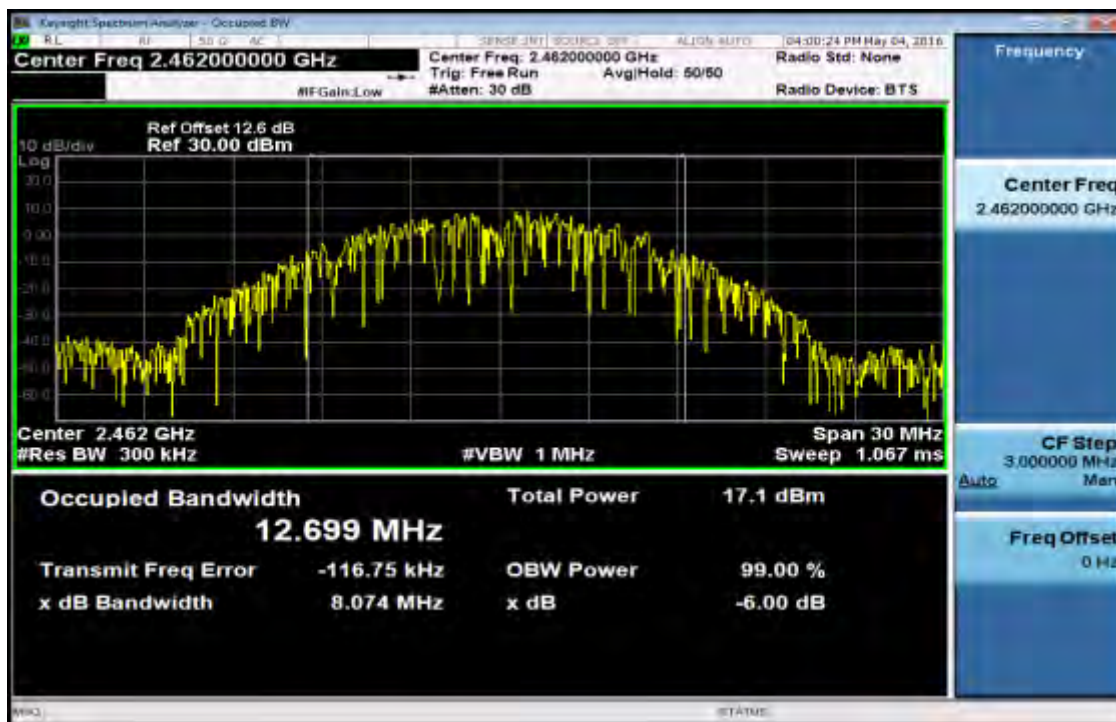
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99% Band Width Test Data CH-High



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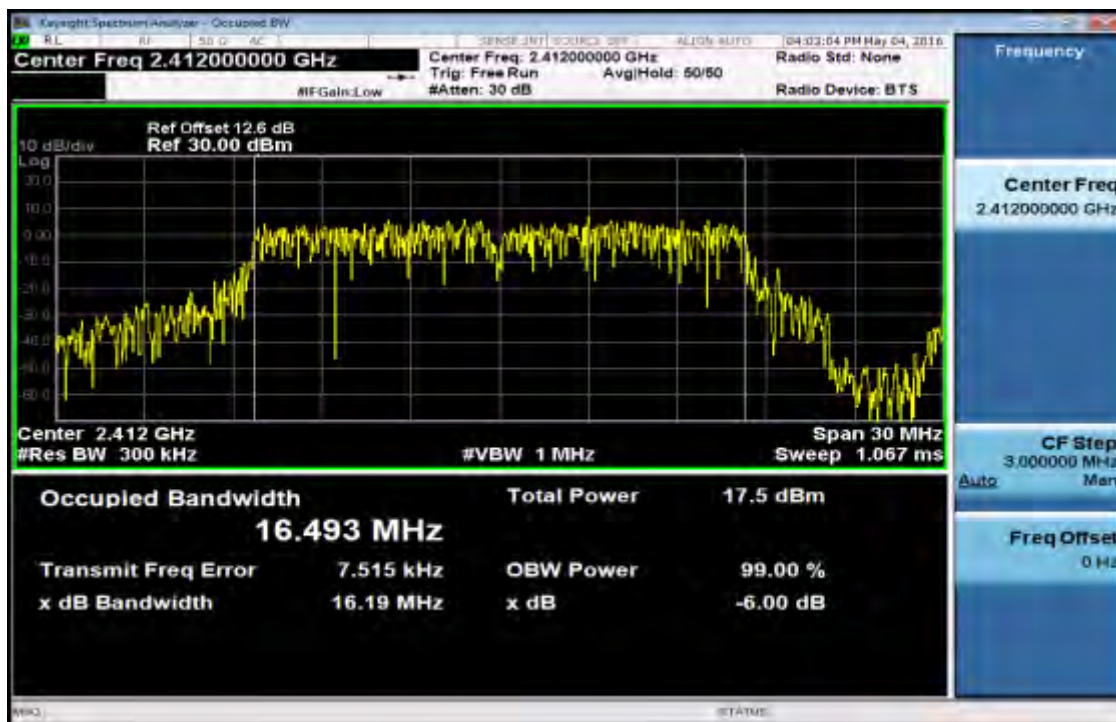
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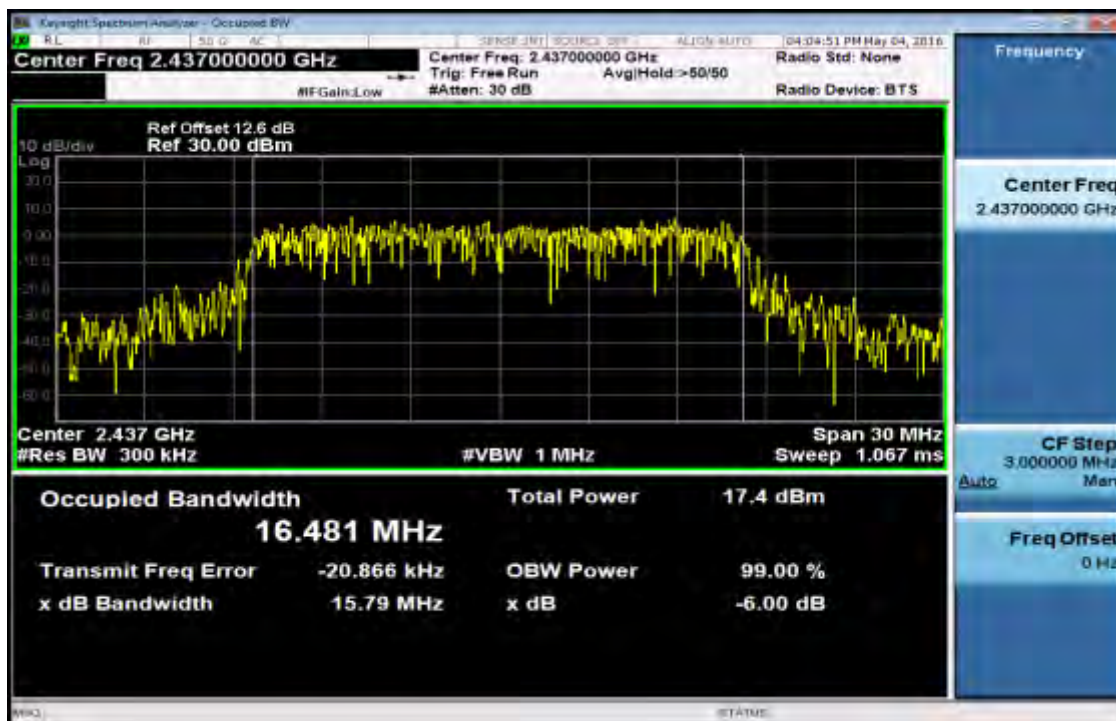
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802.11g (Main)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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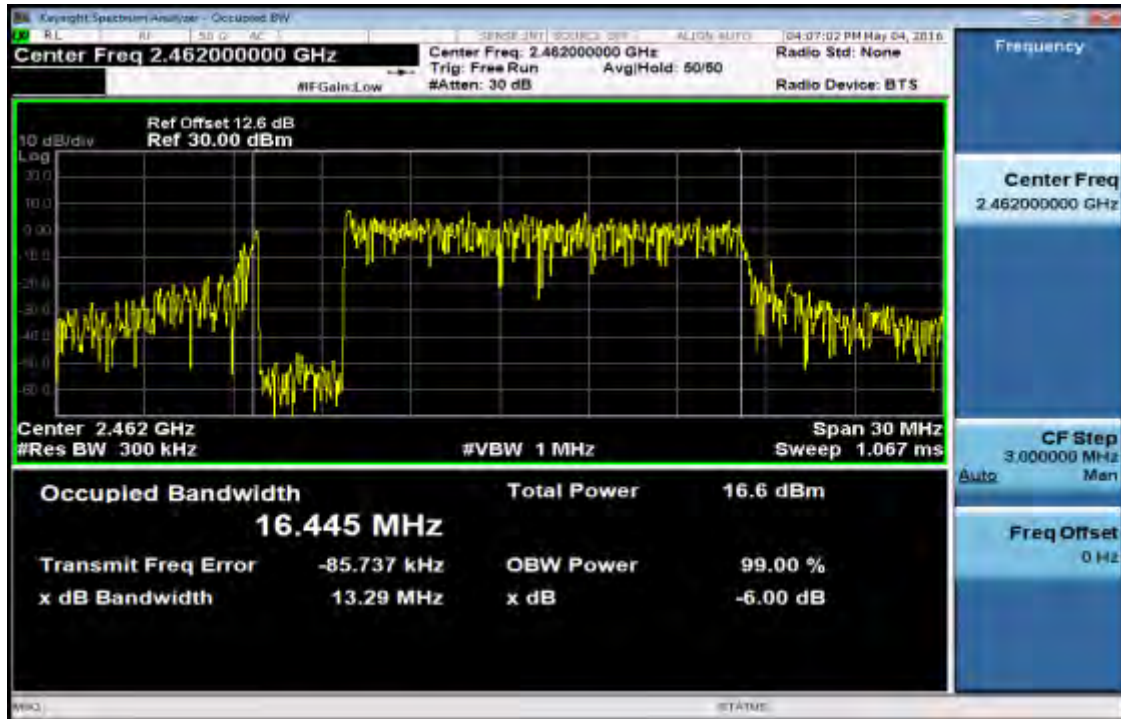
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99% Band Width Test Data CH-High



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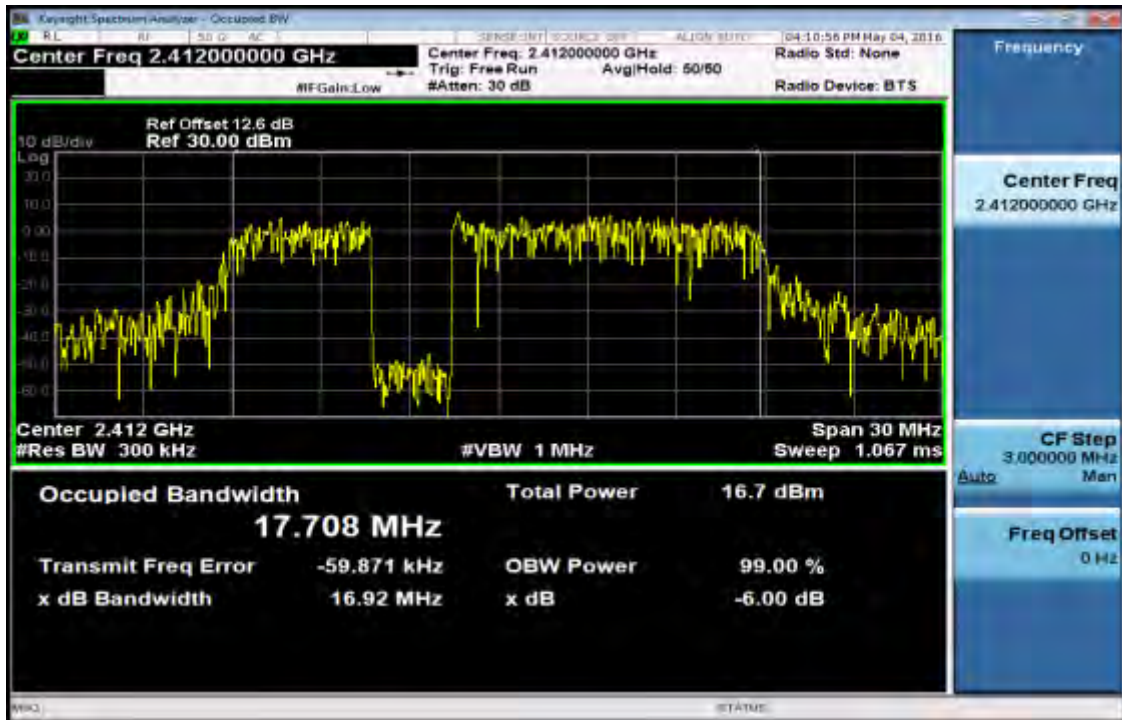
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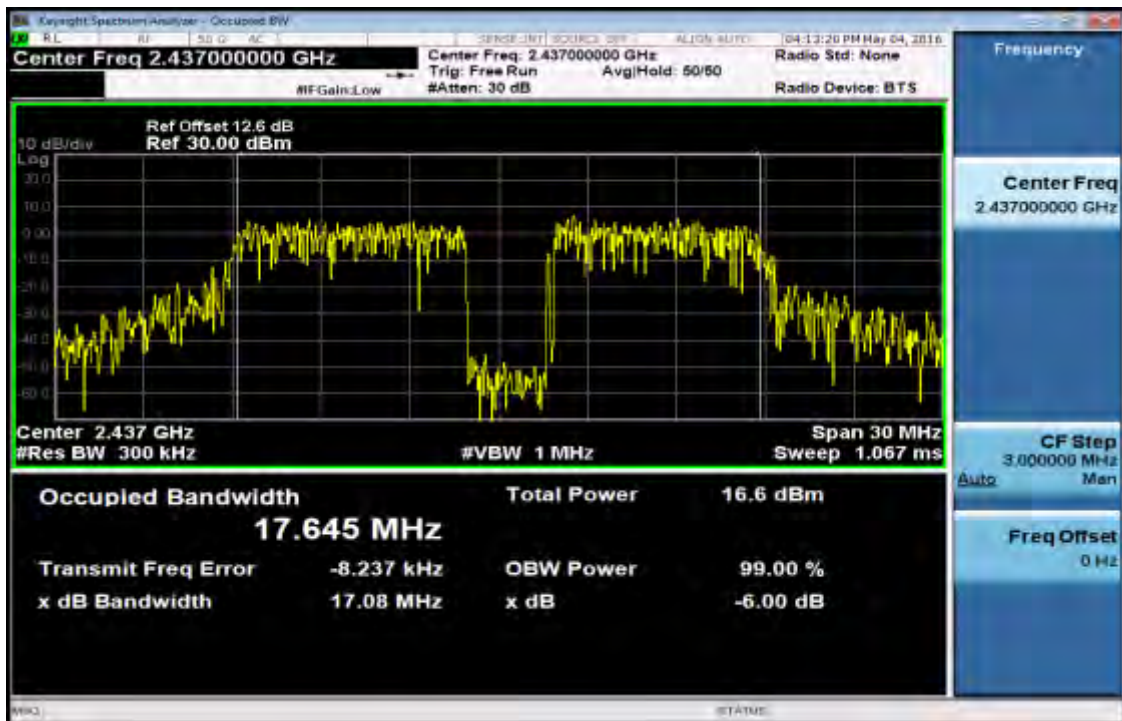
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802.11n_20M (Main)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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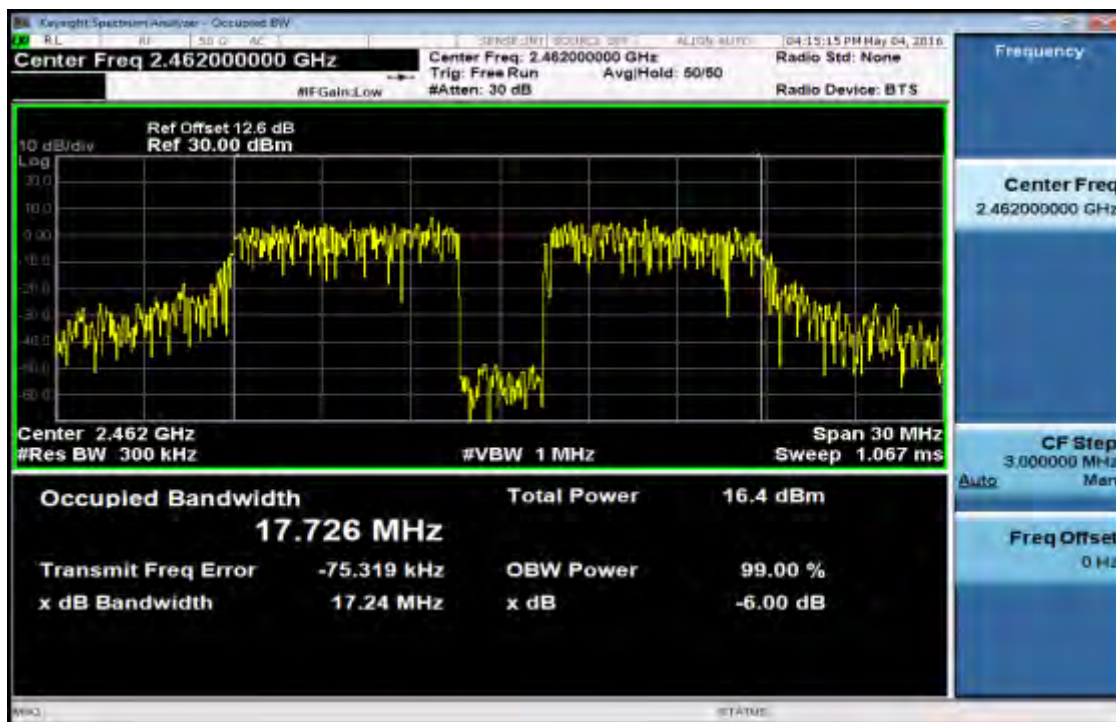
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99% Band Width Test Data CH-High



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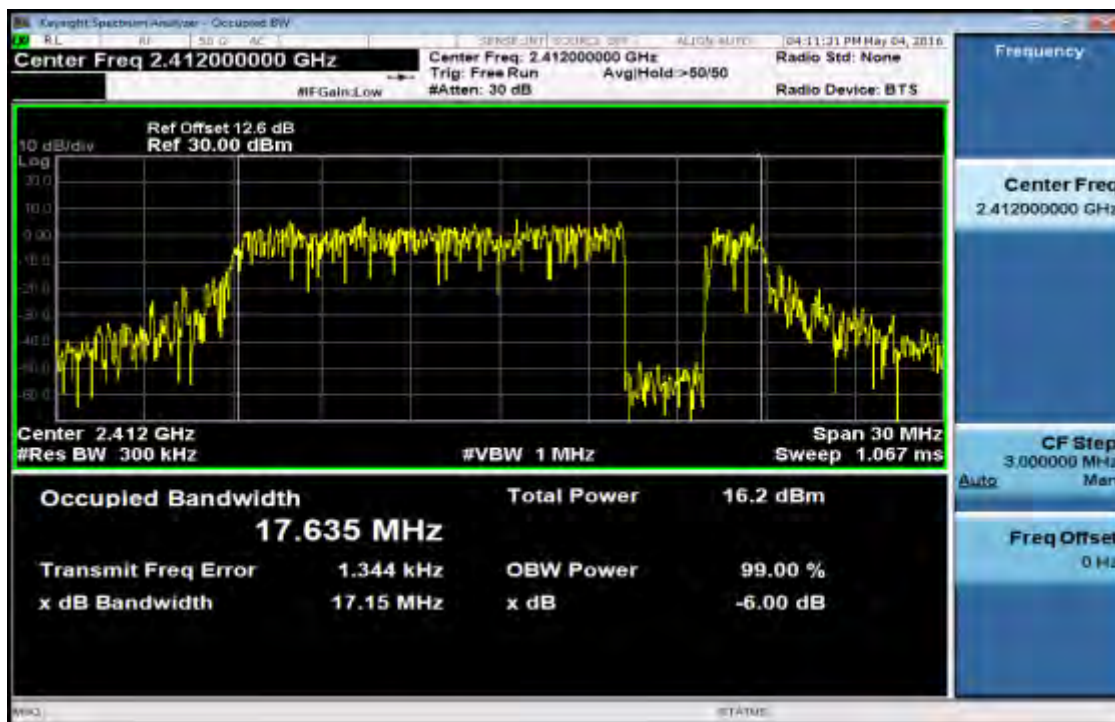
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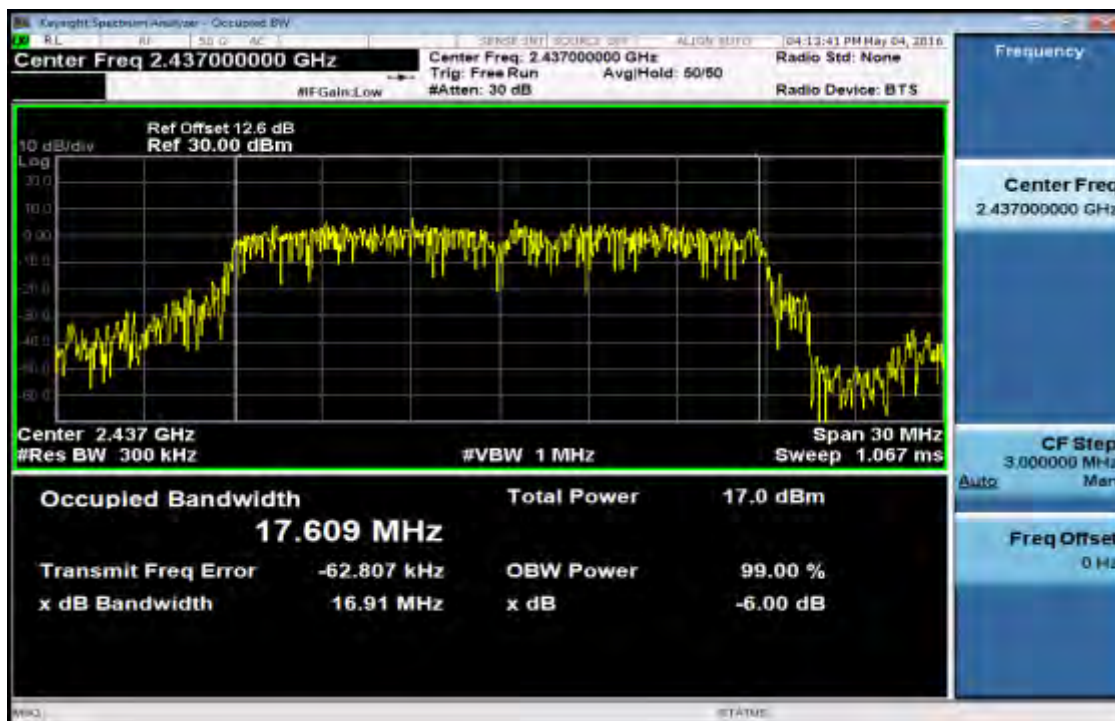
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802.11n_20M (AUX1)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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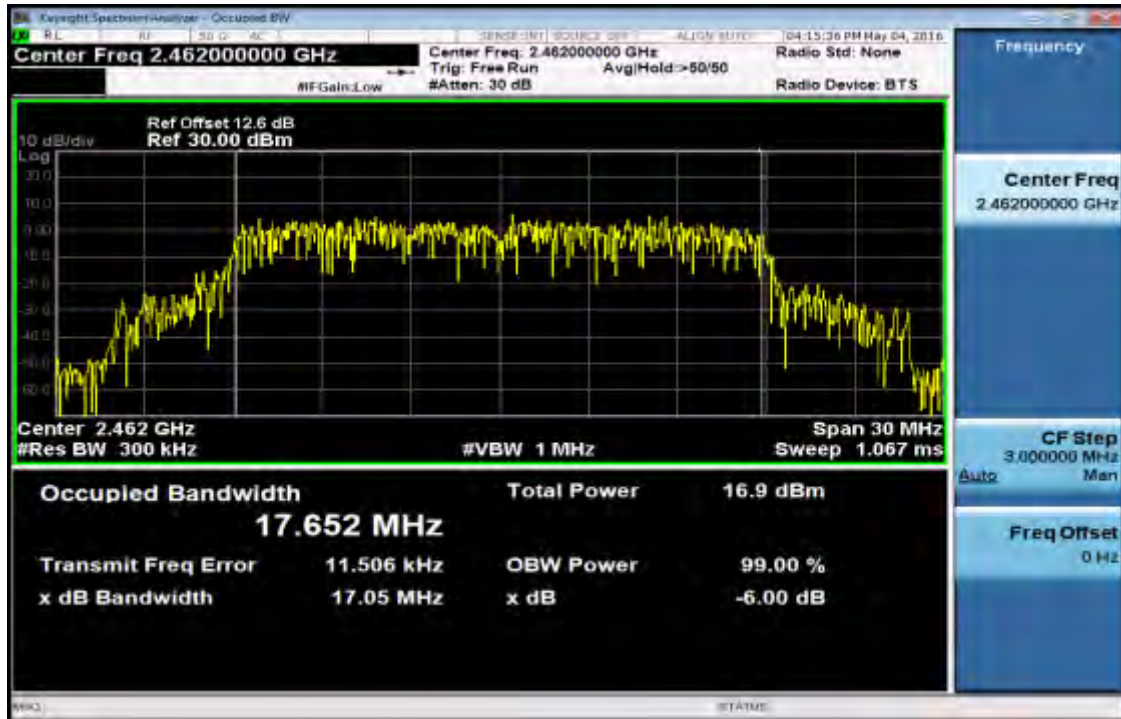
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99% Band Width Test Data CH-High



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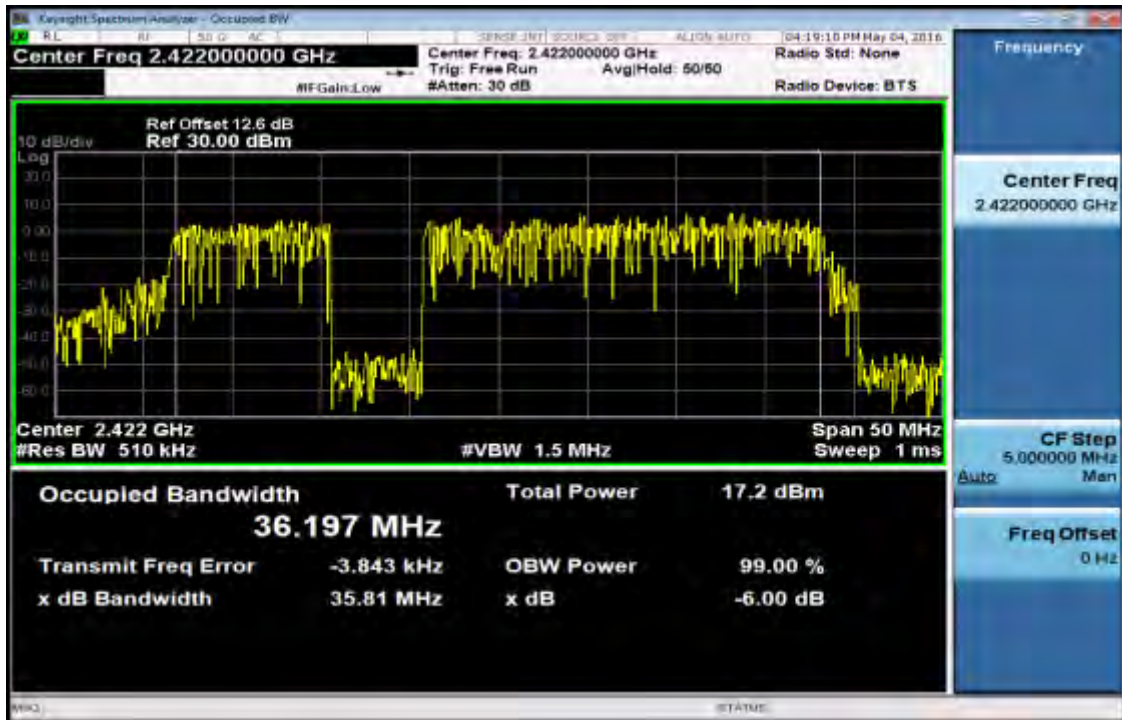
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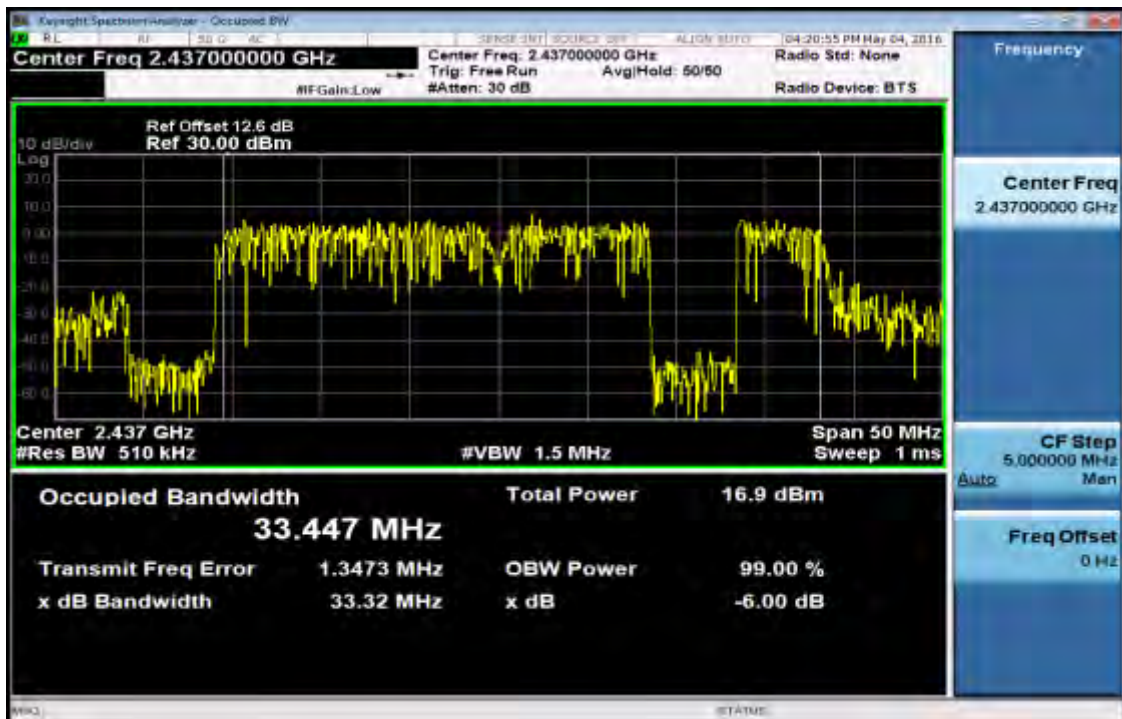
Member of SGS Group

802.11n_40M (Main)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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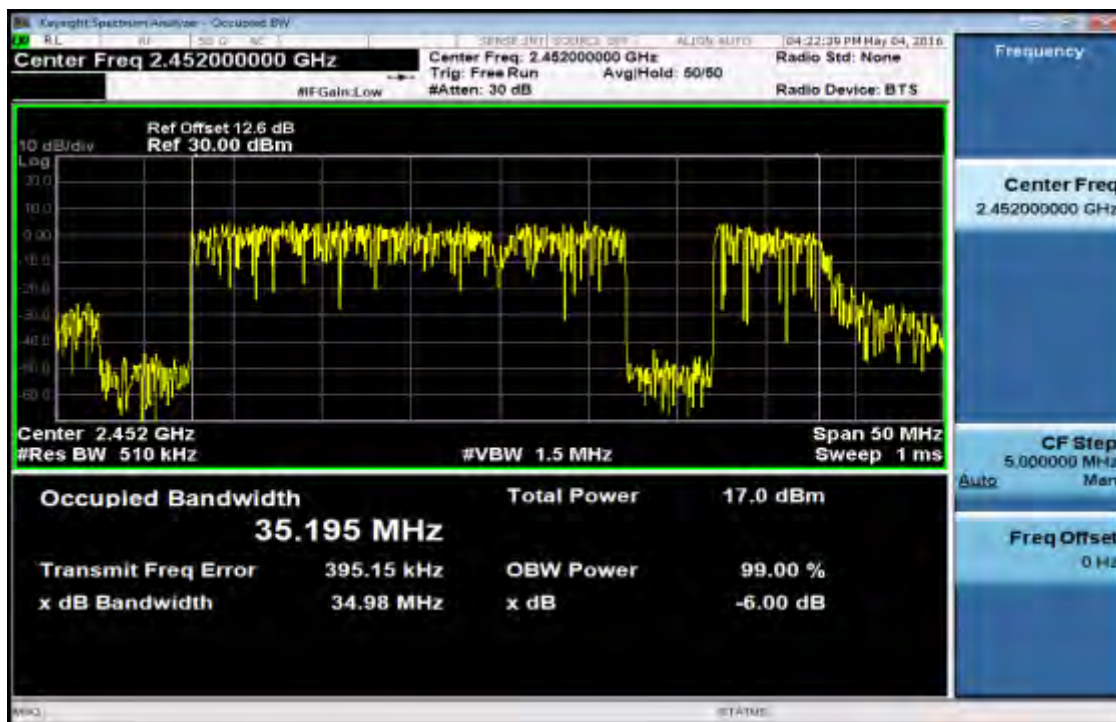
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99% Band Width Test Data CH-High



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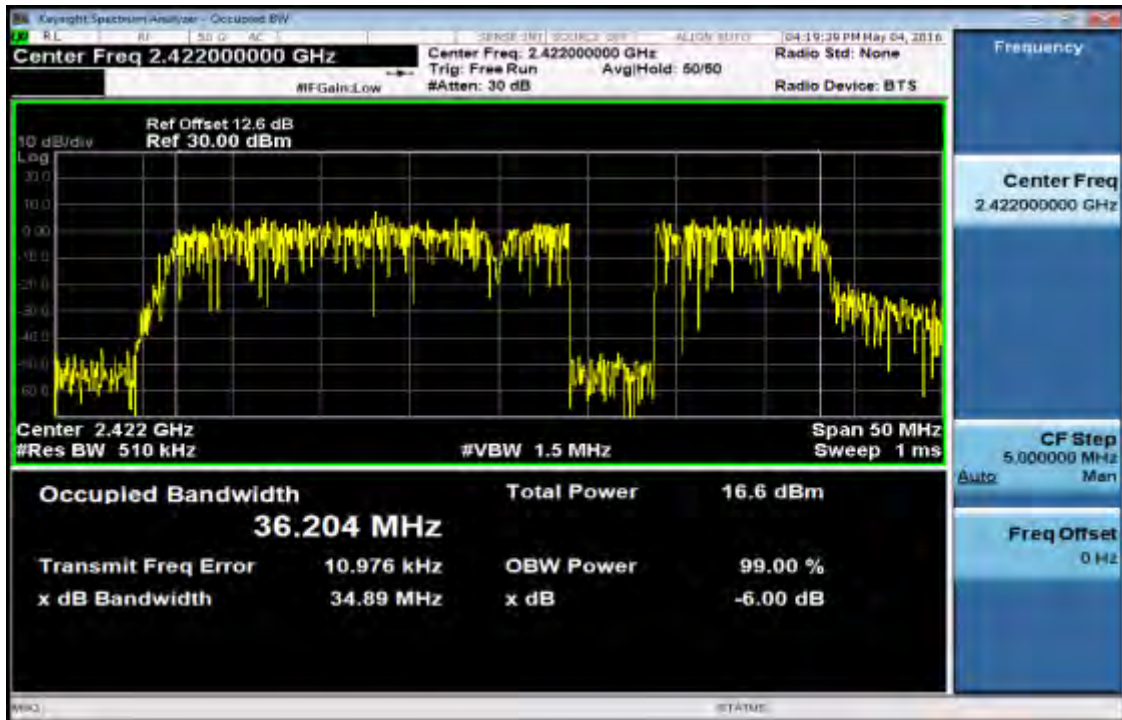
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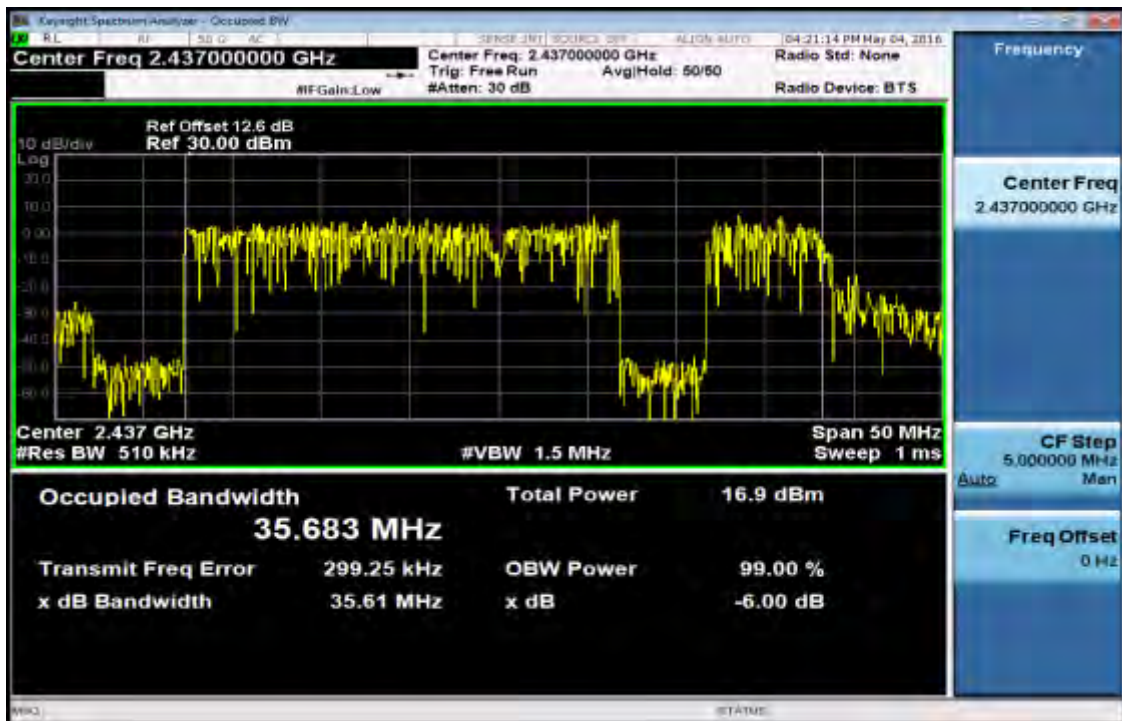
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802.11n_40M (AUX1)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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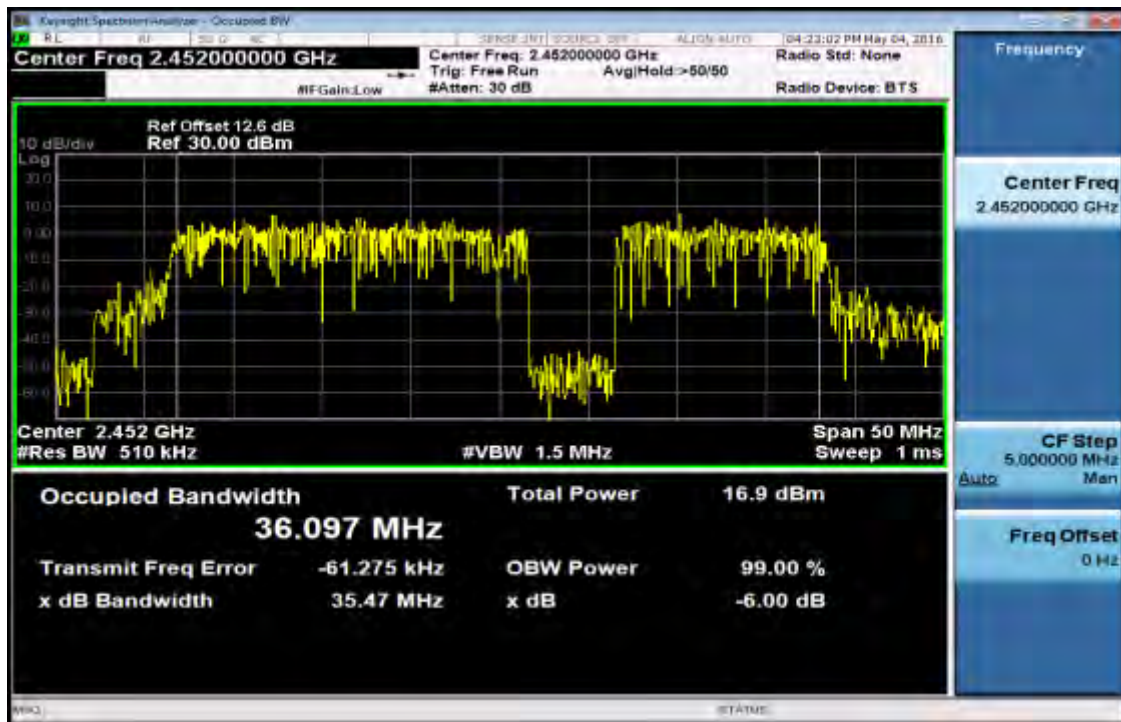
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99% Band Width Test Data CH-High



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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

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

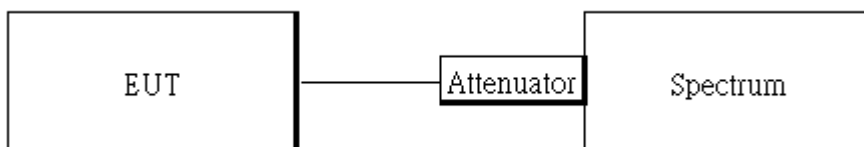
In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) & RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.8.

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

10.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY50420195	12/21/2015	12/20/2016
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.

Conducted Spurious Emission:

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

10.5 Measurement Result

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

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802.11b

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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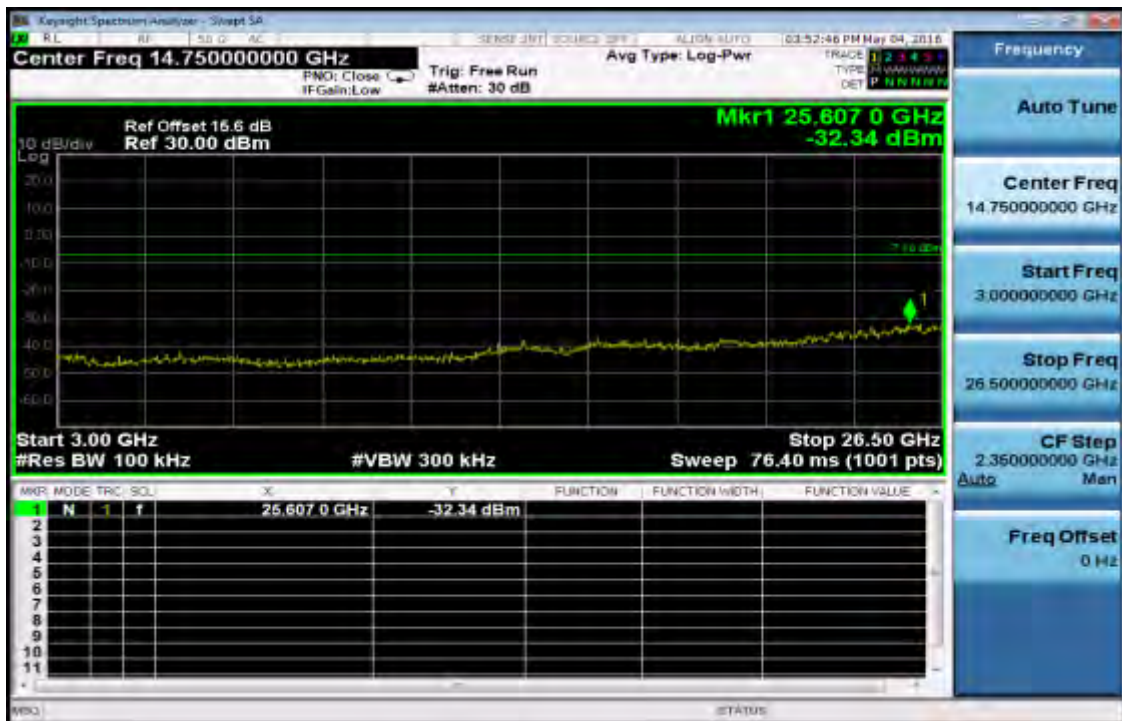
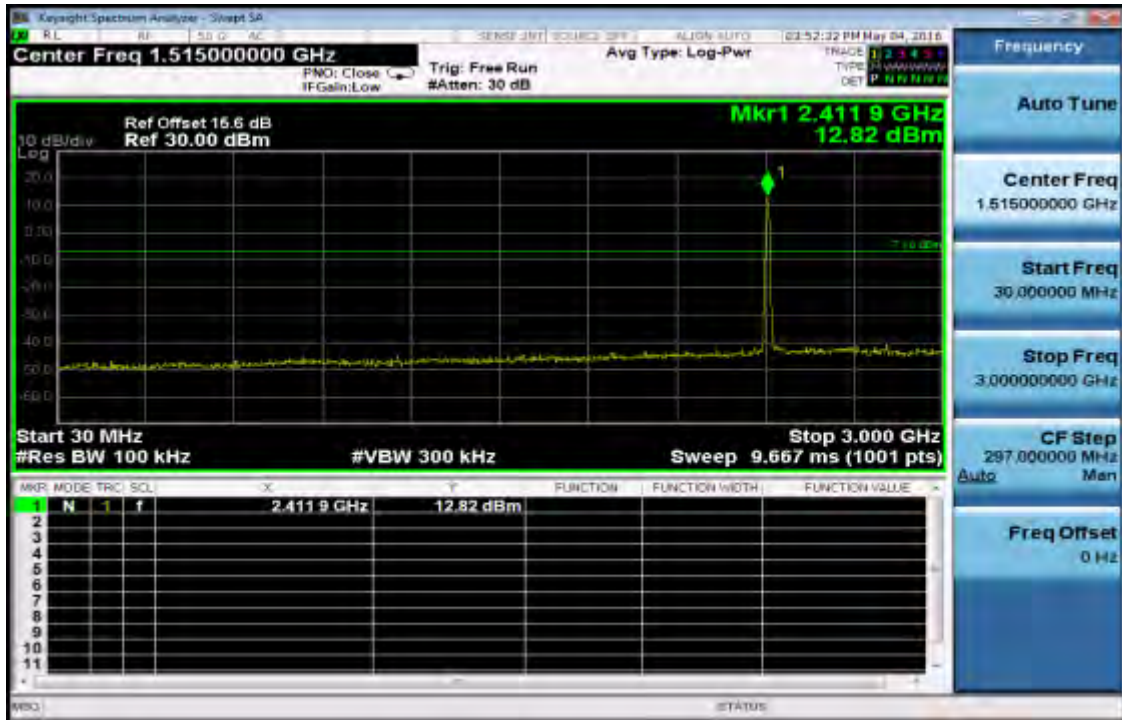
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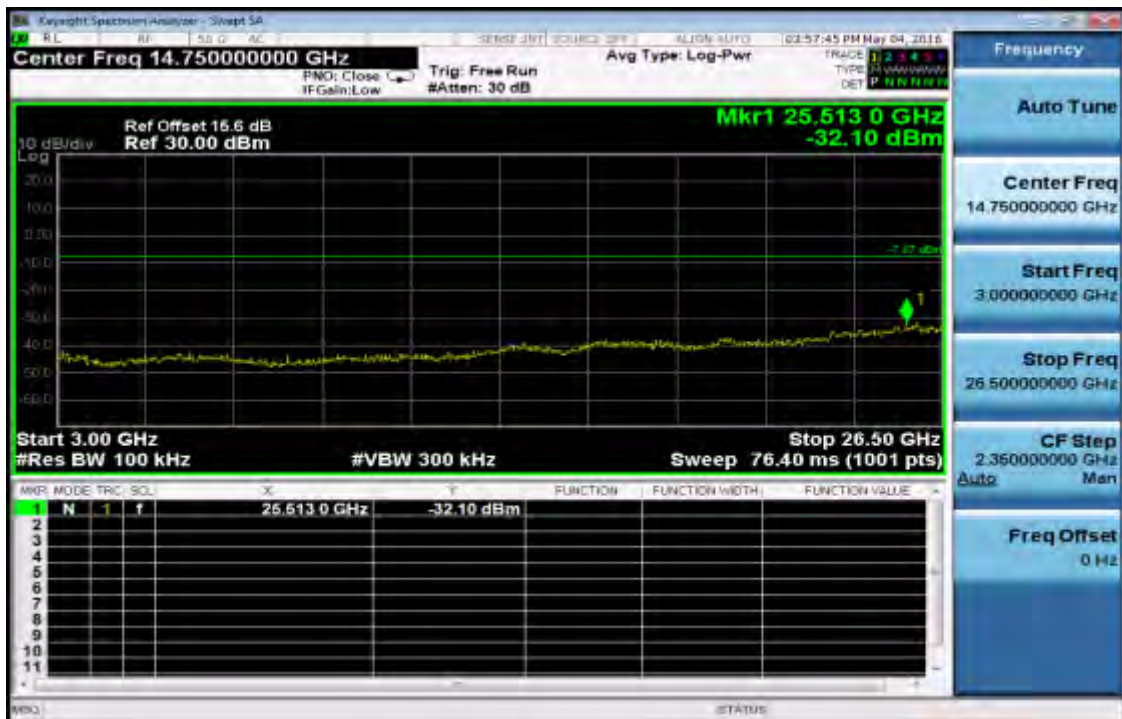
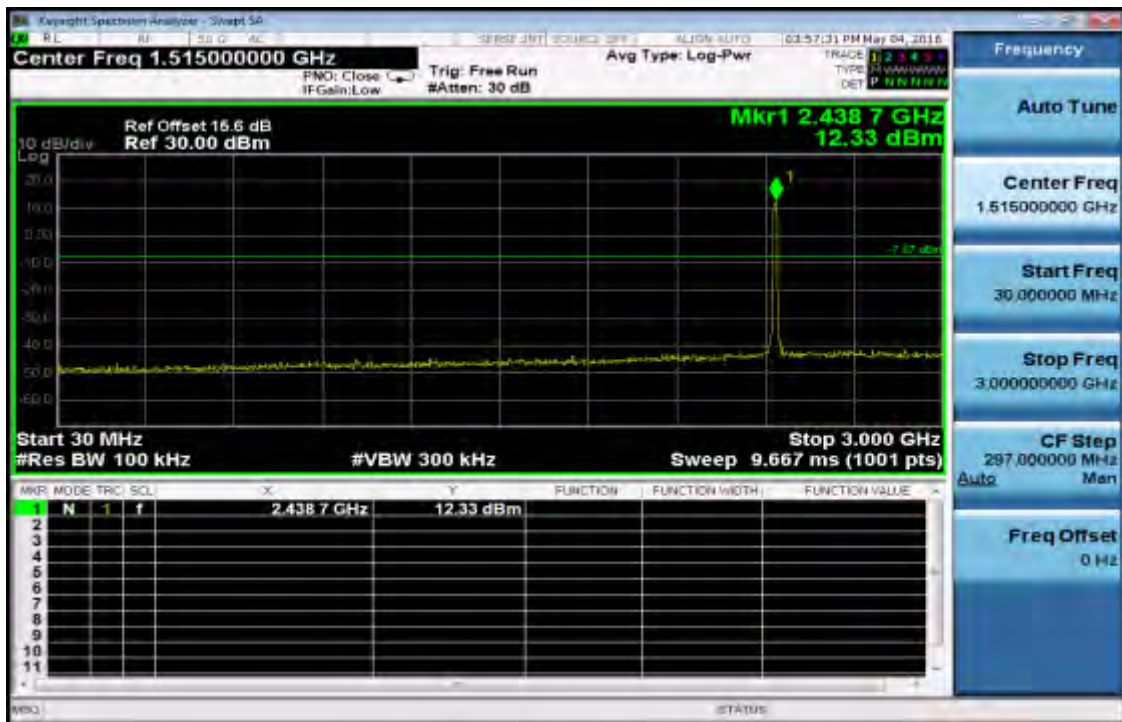
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Spurious Emission Test Data CH-Mid



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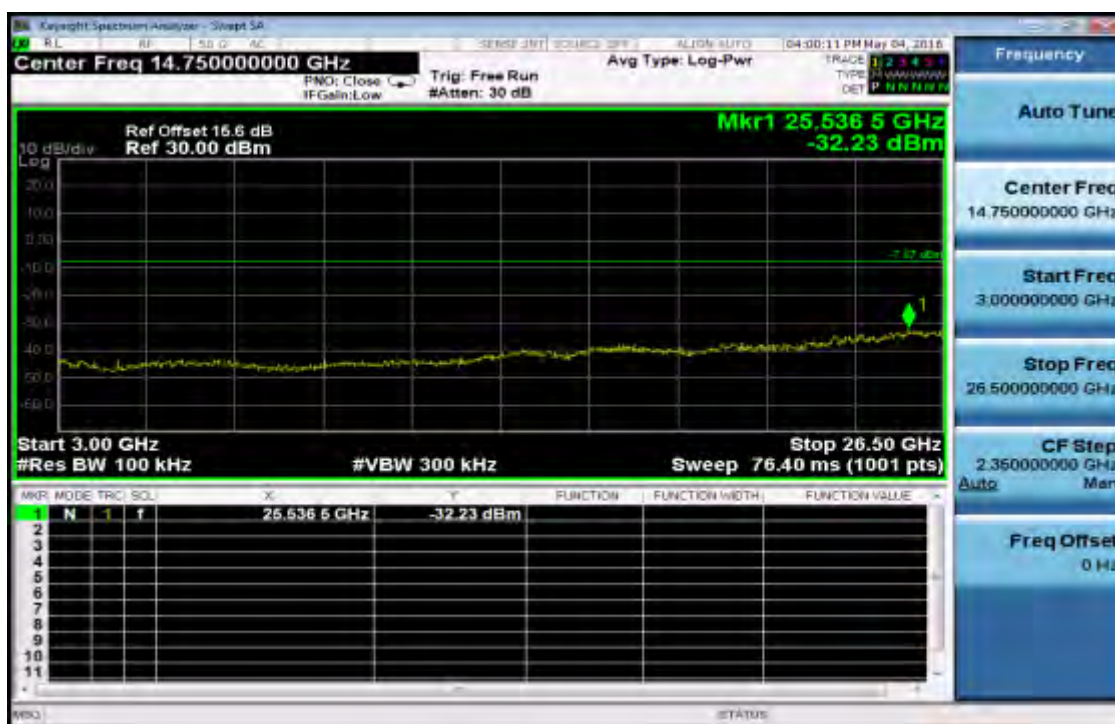
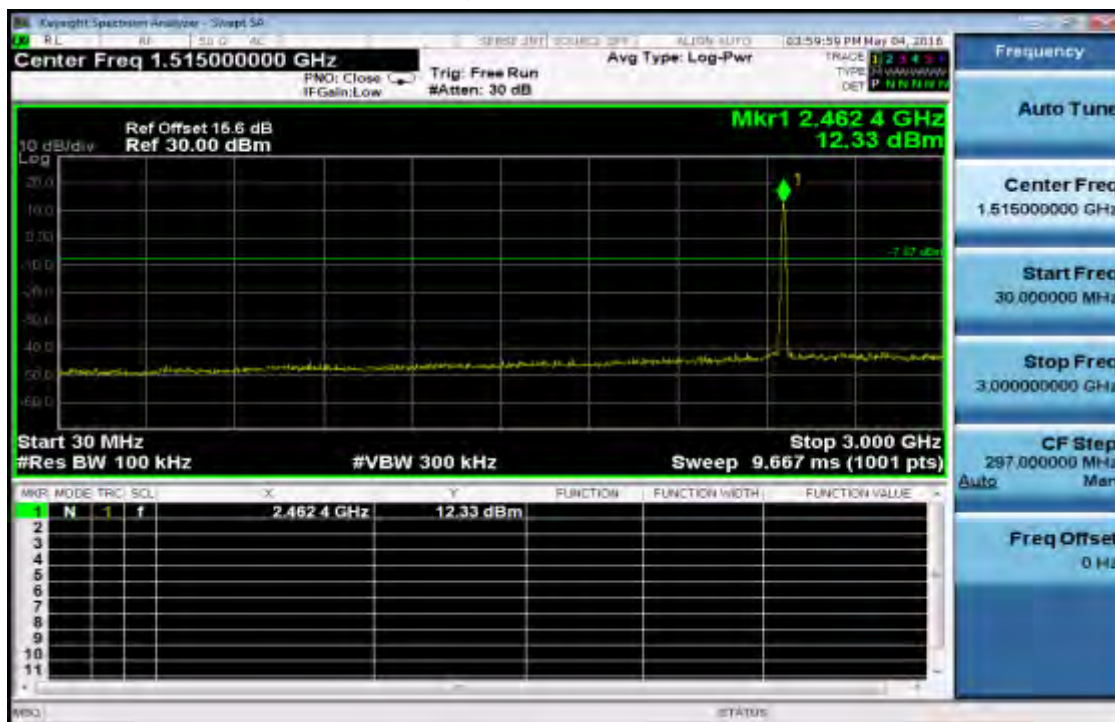
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Spurious Emission Test Data CH-High



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Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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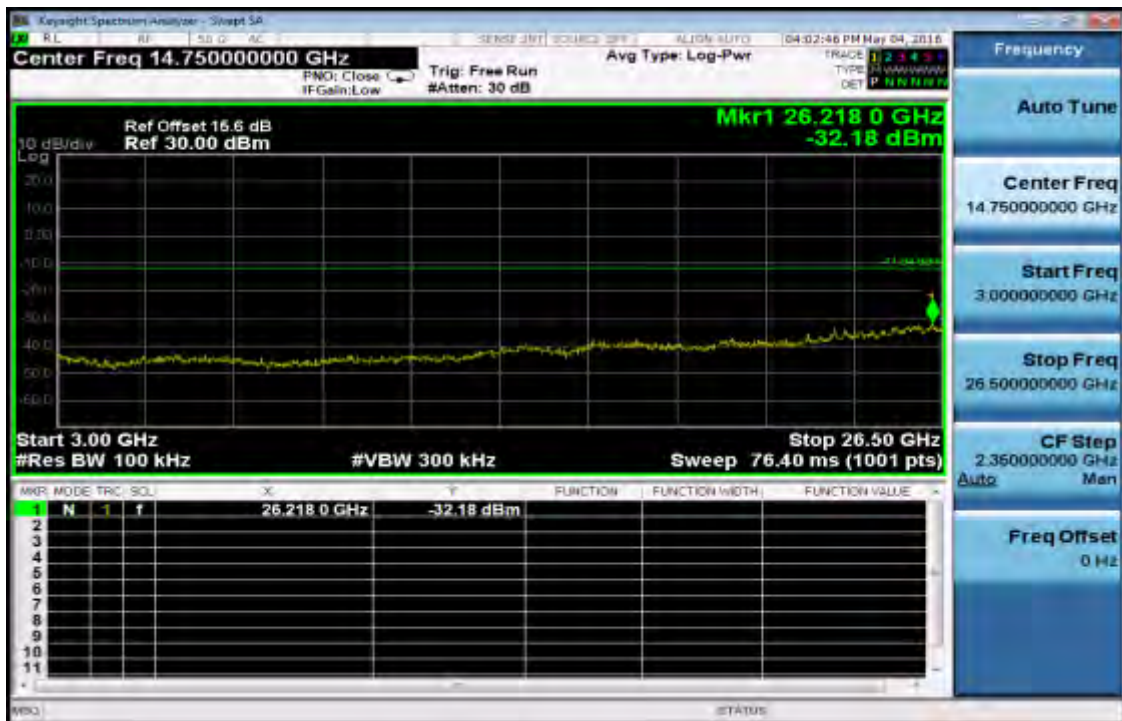
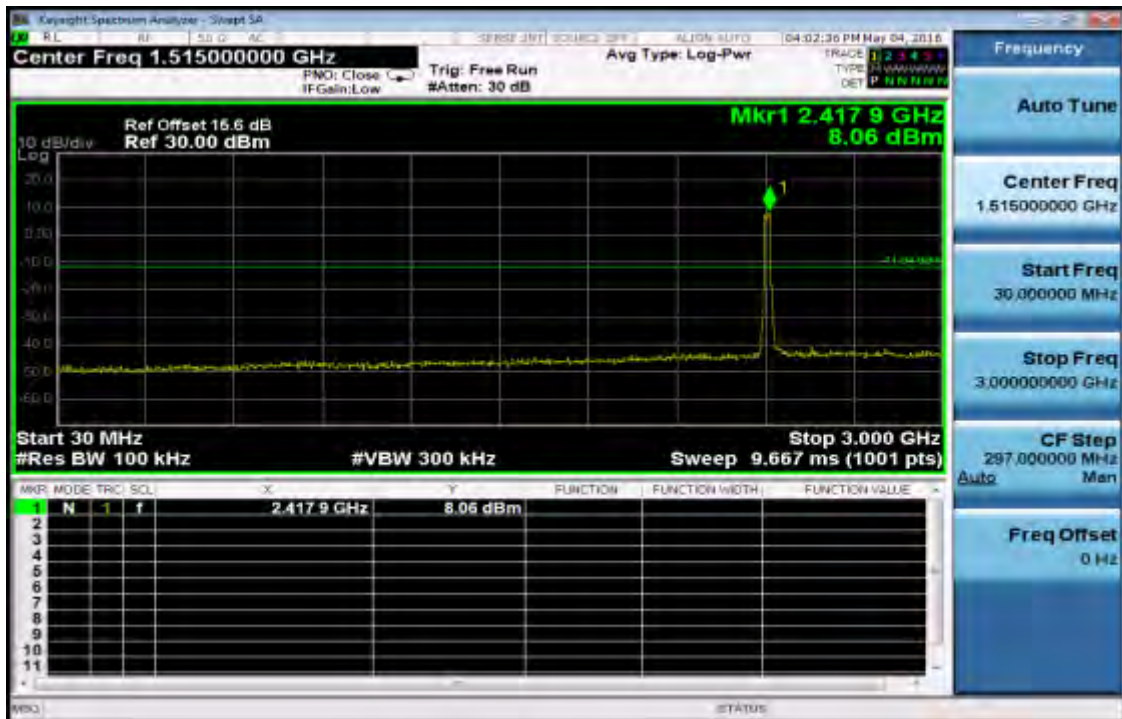
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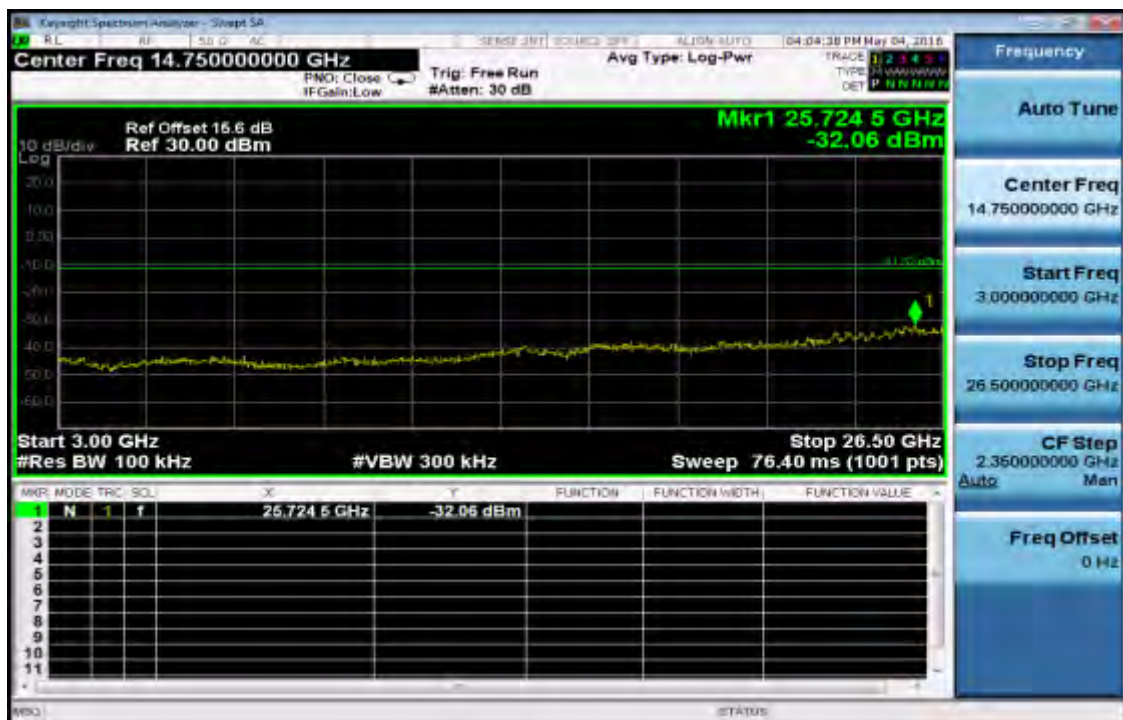
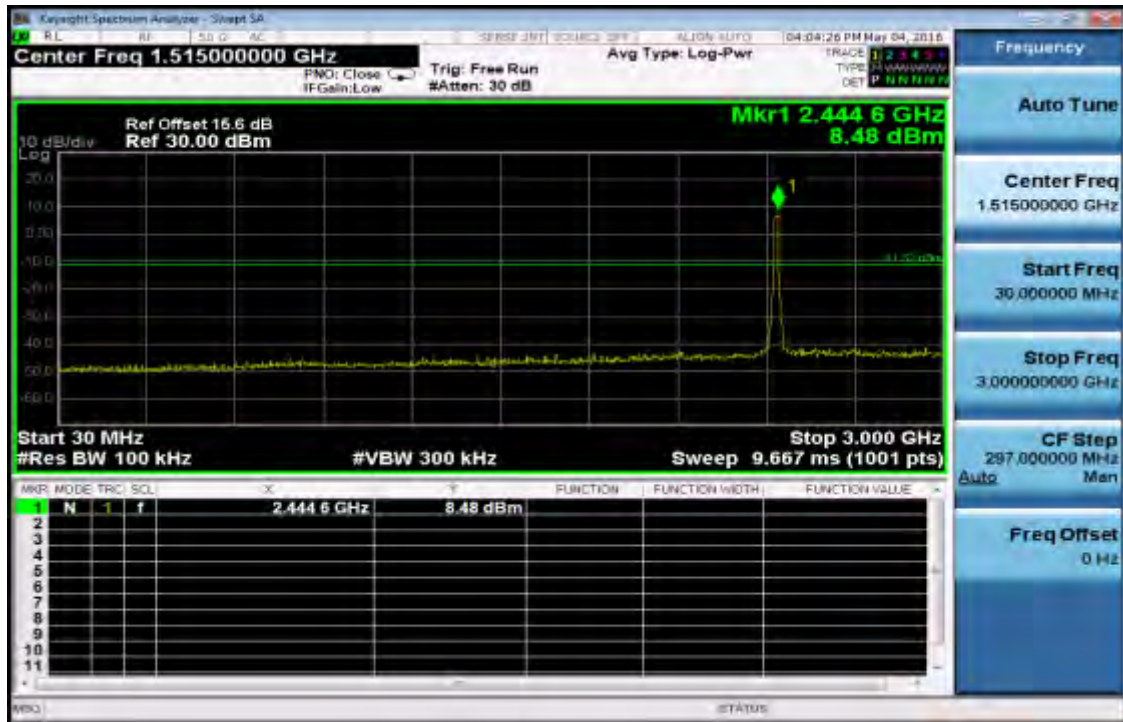
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Spurious Emission Test Data CH-Mid



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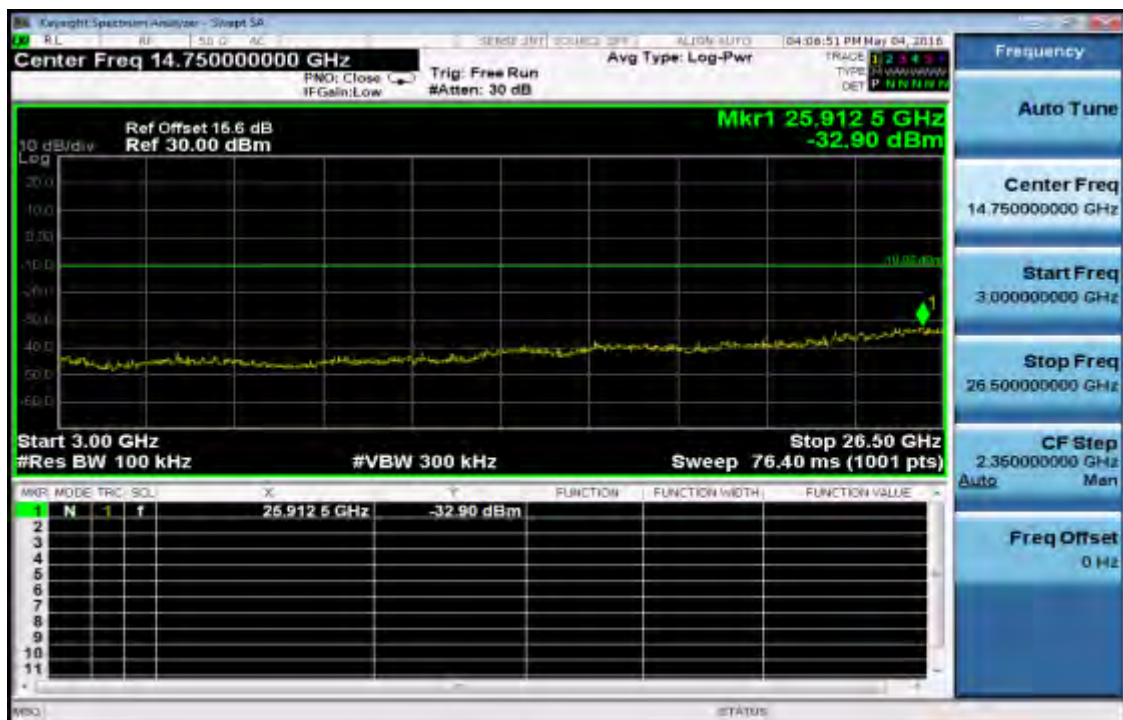
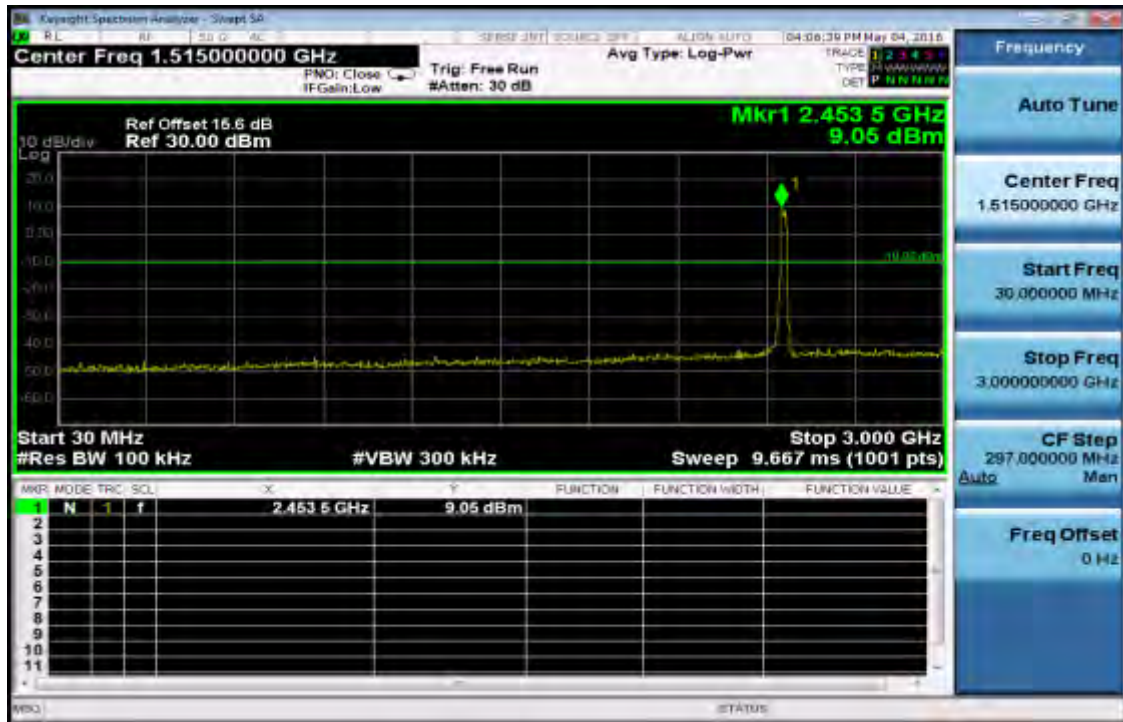
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Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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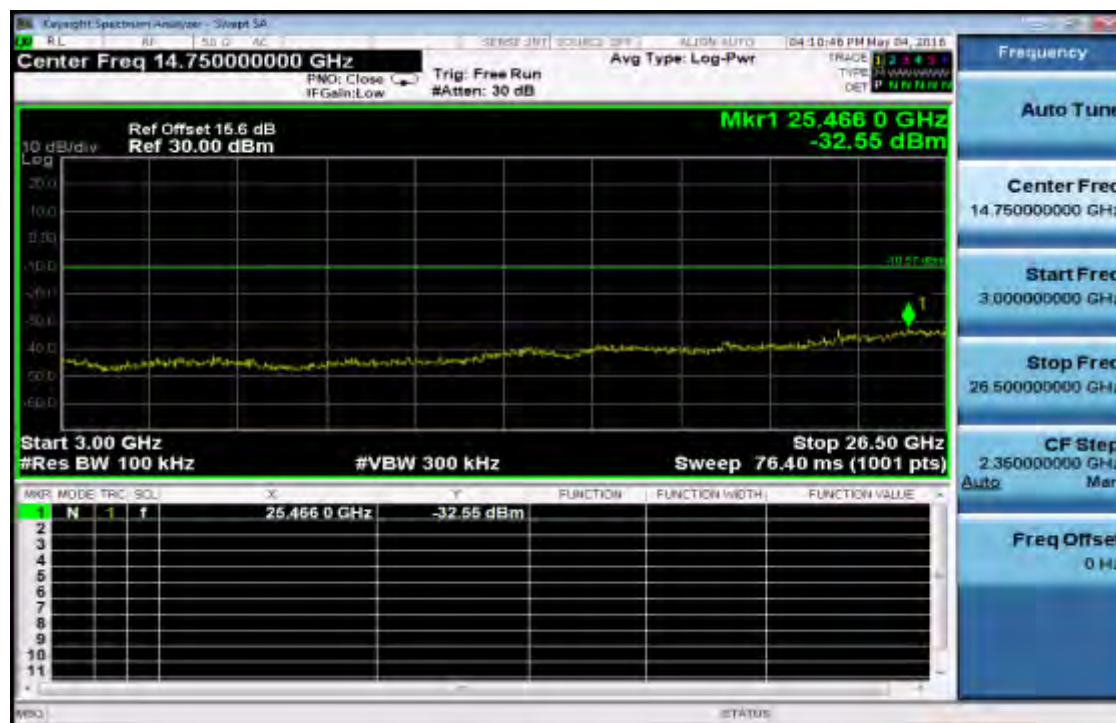
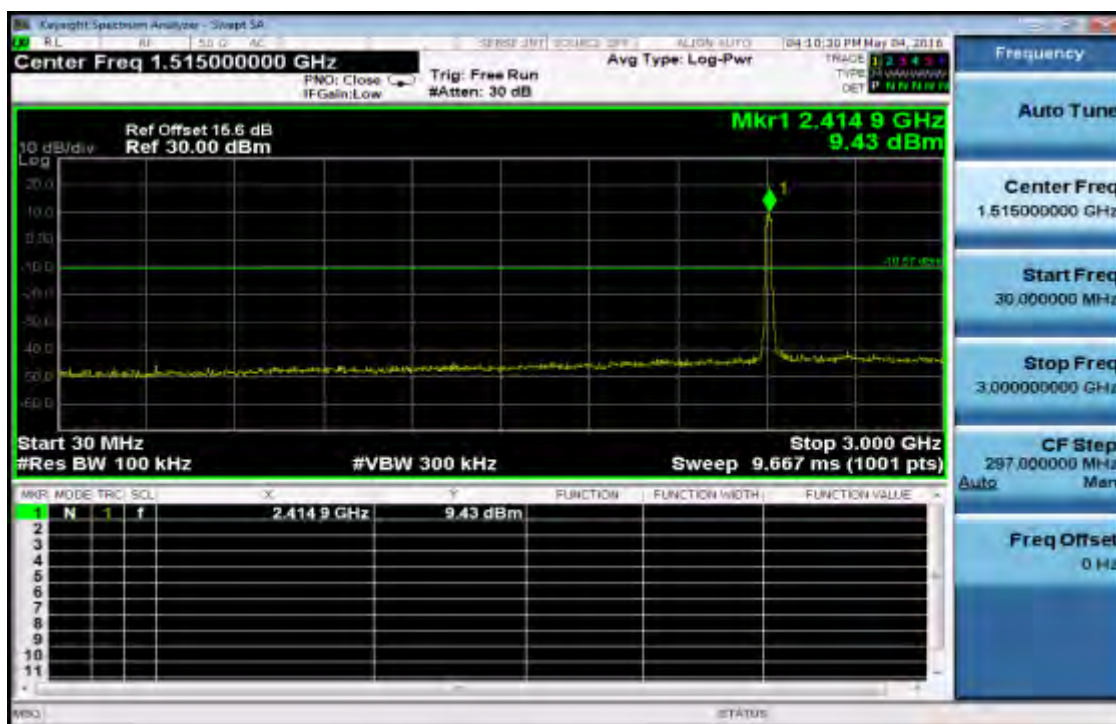
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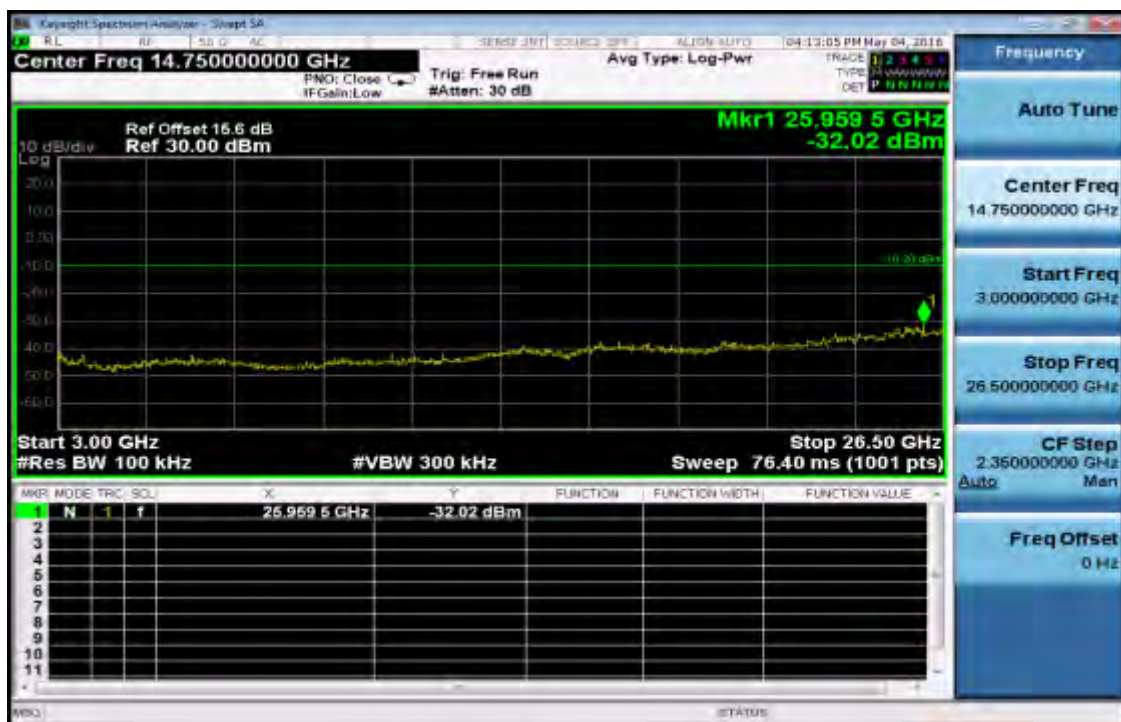
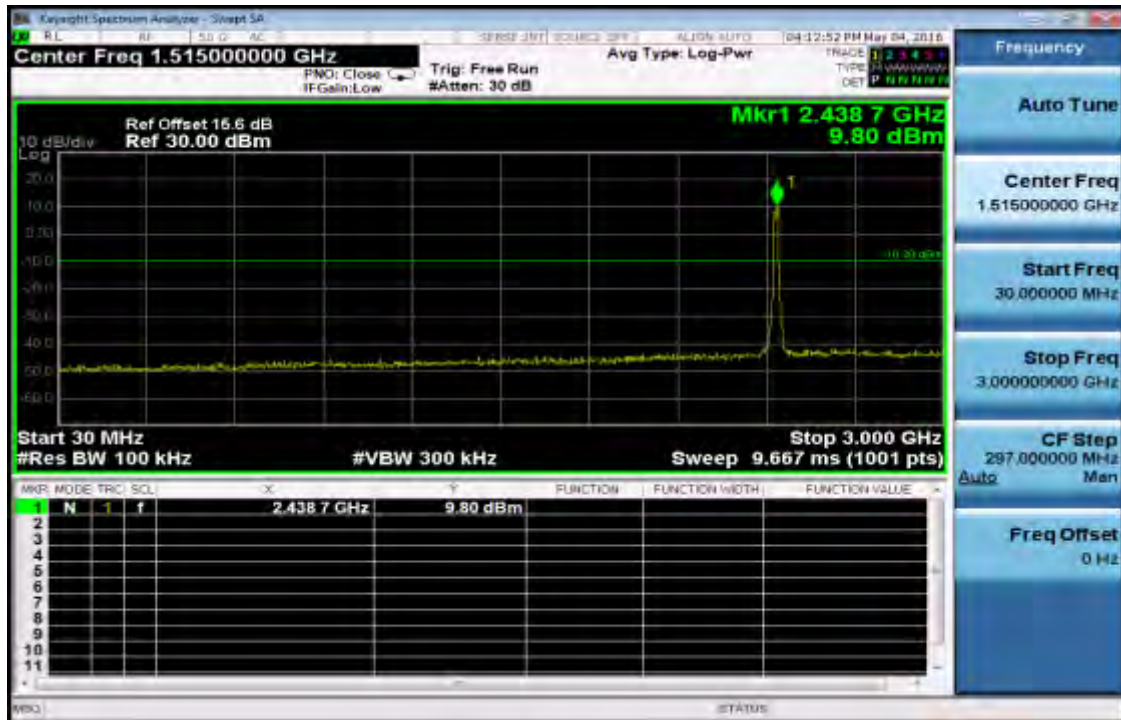
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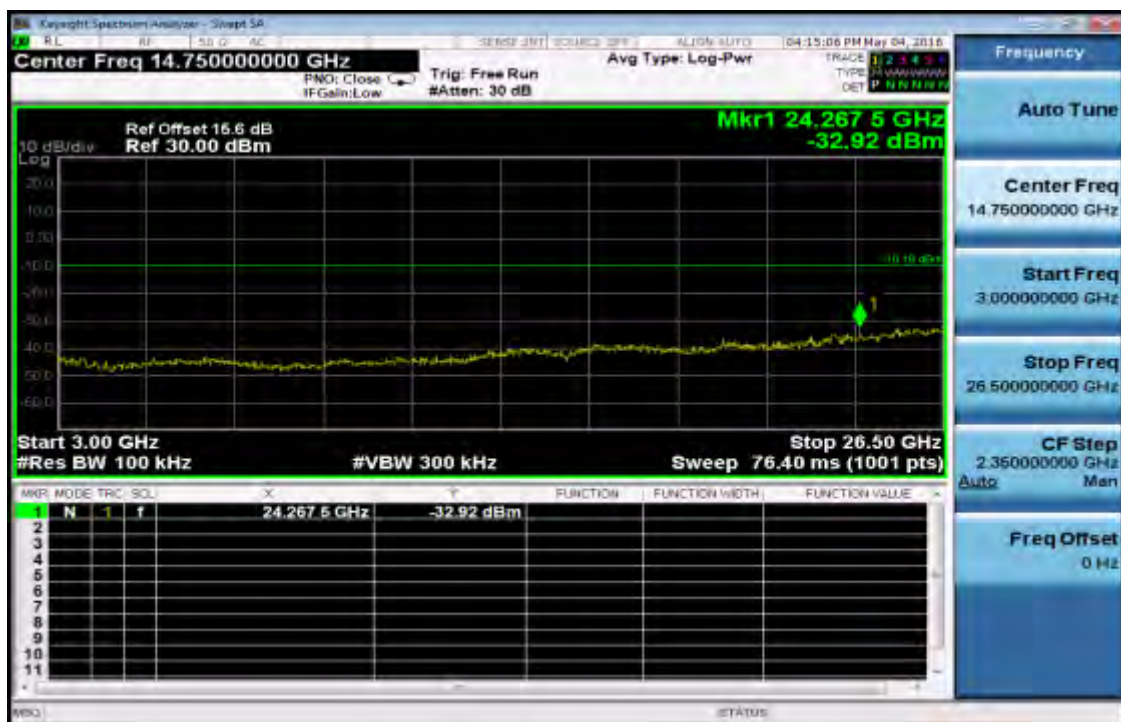
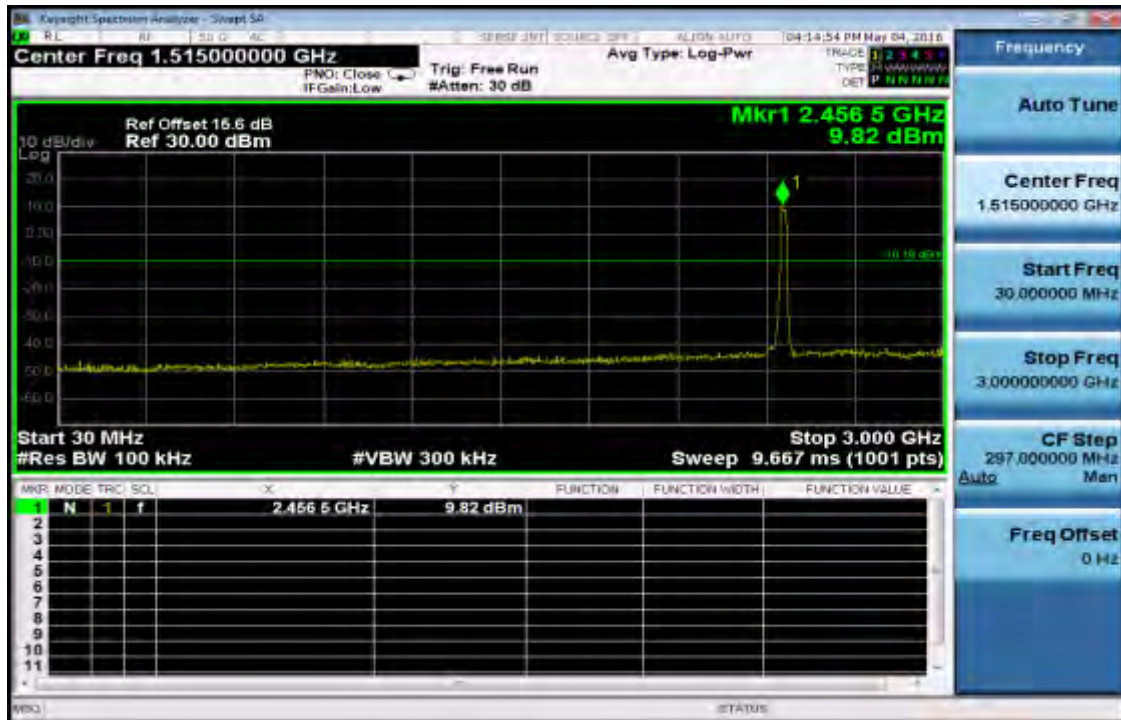
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802.11n_HT40

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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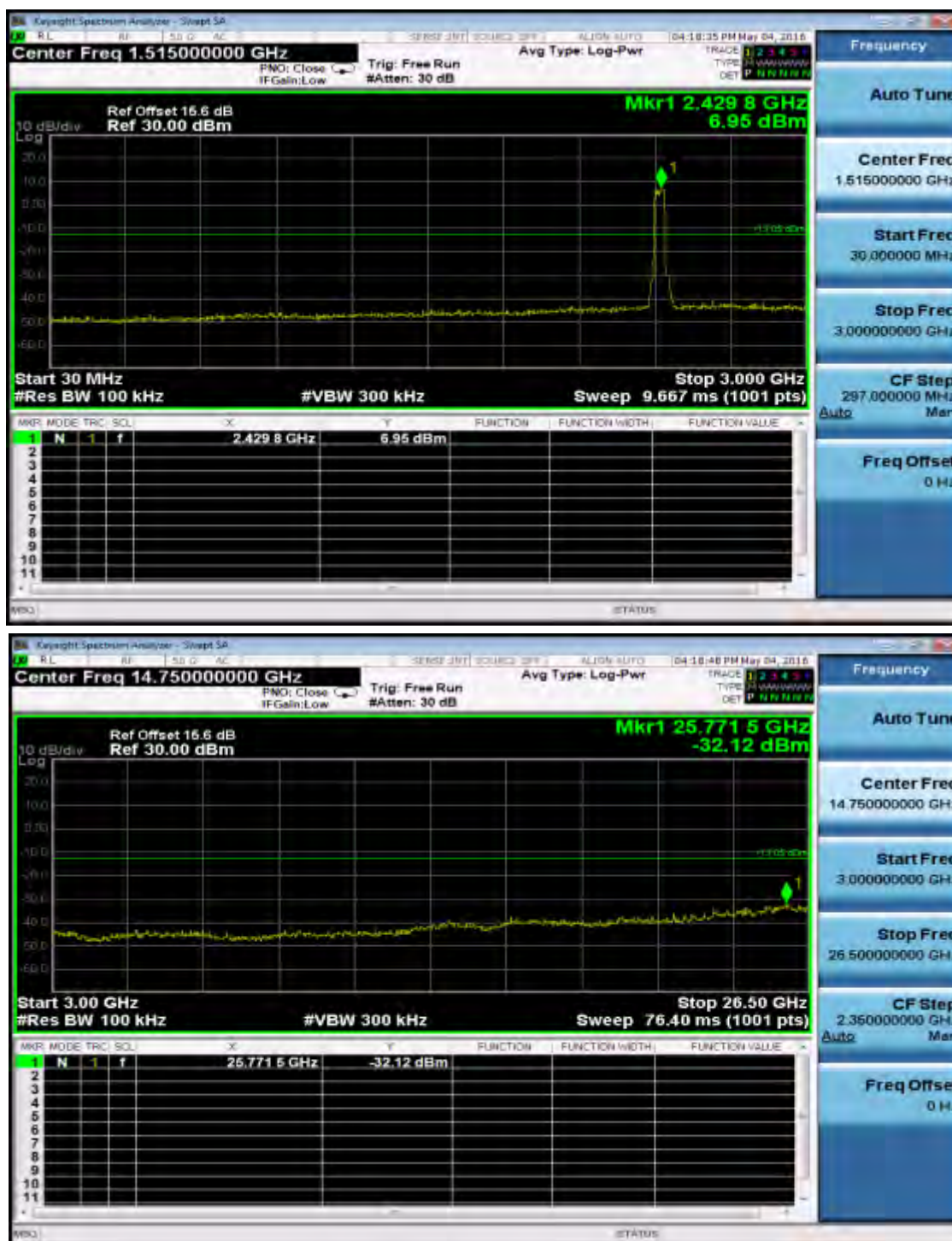
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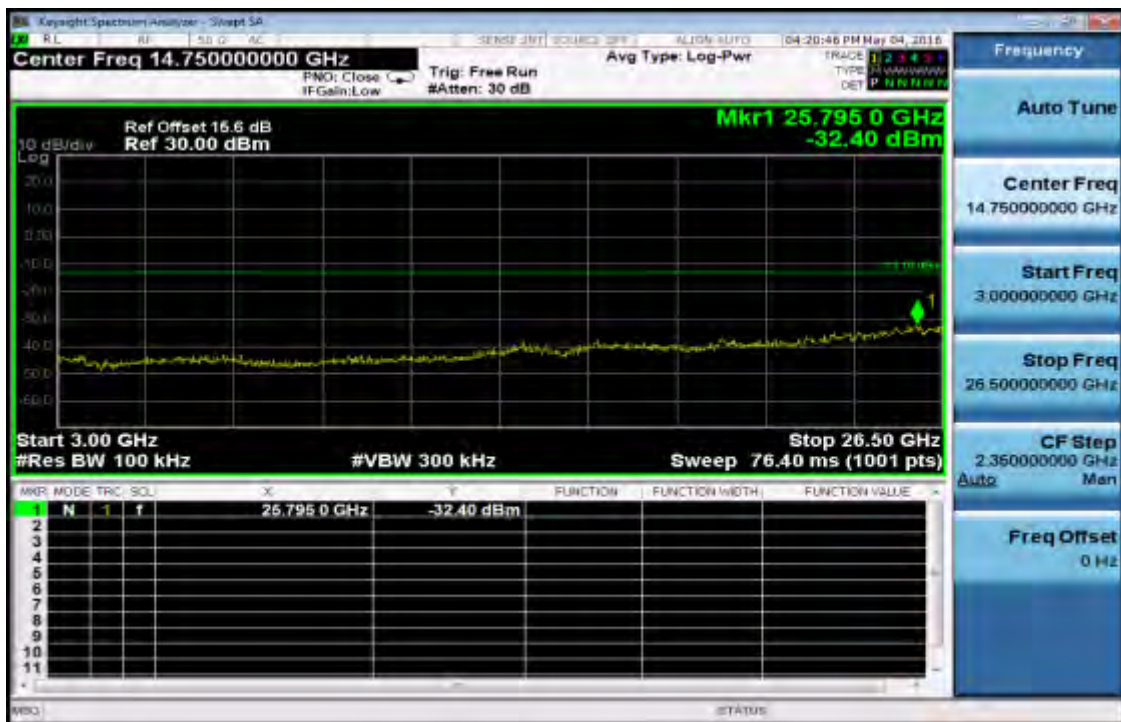
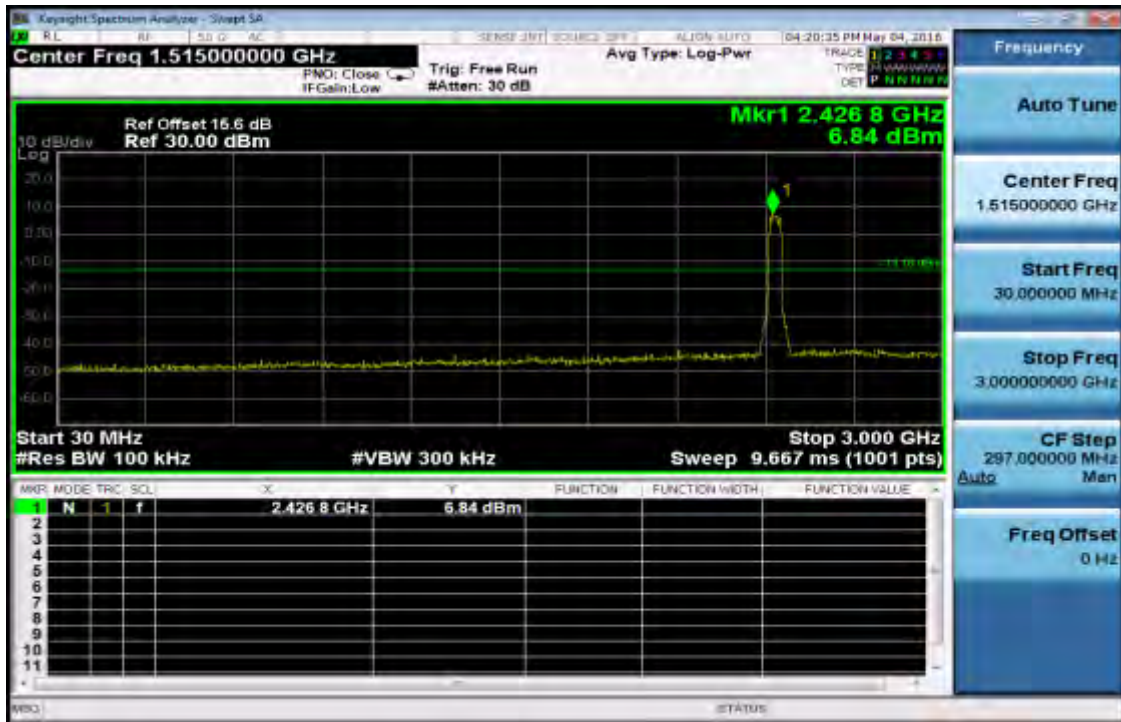
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Spurious Emission Test Data CH-Mid



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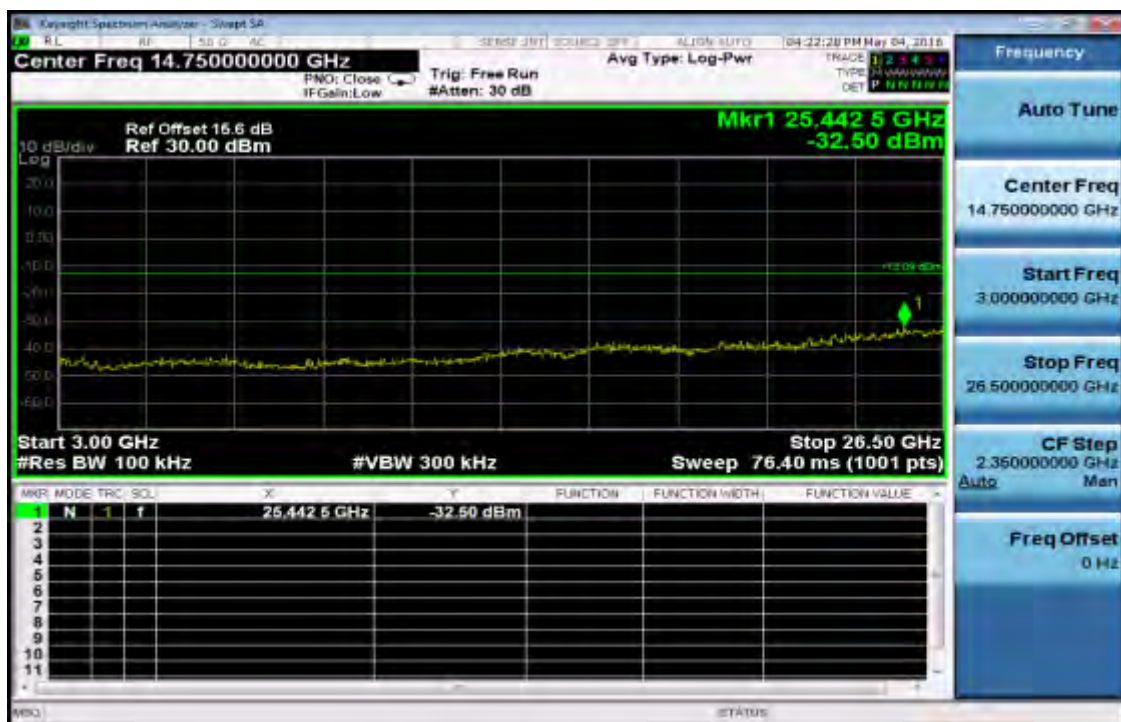
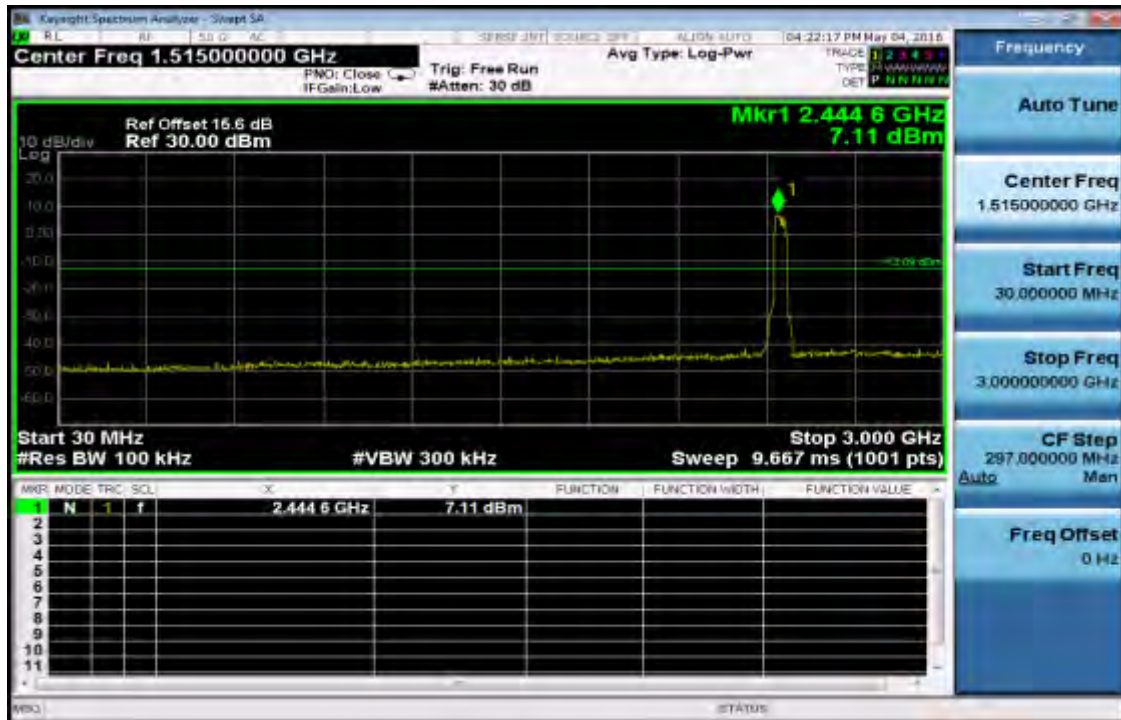
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Spurious Emission Test Data CH-High



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 & RSS-Gen §8.8, 8.9 limit as below.

And according to §15.33(a) (1) & RSS-Gen §6.13(a), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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

Note:

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

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11.2 Measurement Equipment Used:

SGS SAC-III					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESC17	100760	05/11/2015	05/10/2016
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/28/2016	01/27/2017
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	07/02/2015	07/01/2016
Low Loss Cable	Huber Suhner	966 TX	1	01/02/2016	01/01/2017

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

SGS SAC-III					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESC17	100760	05/10/2016	05/09/2017

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

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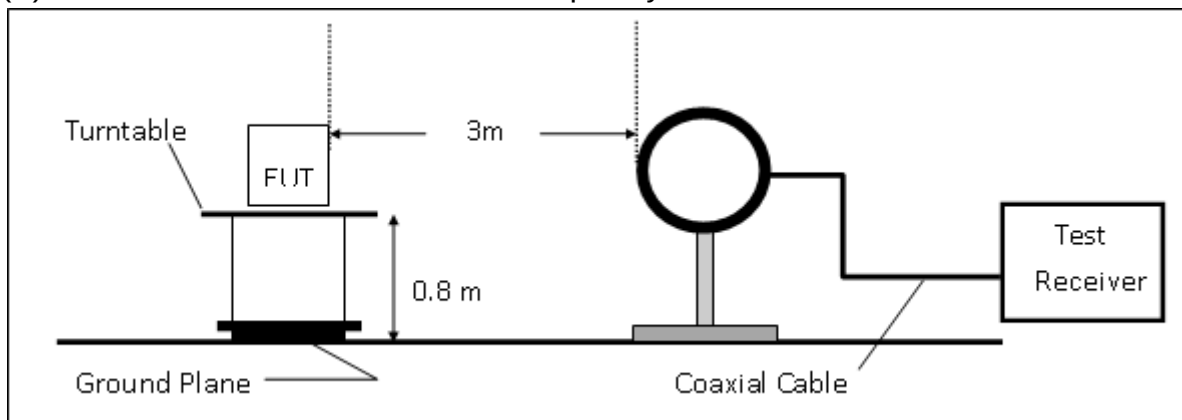
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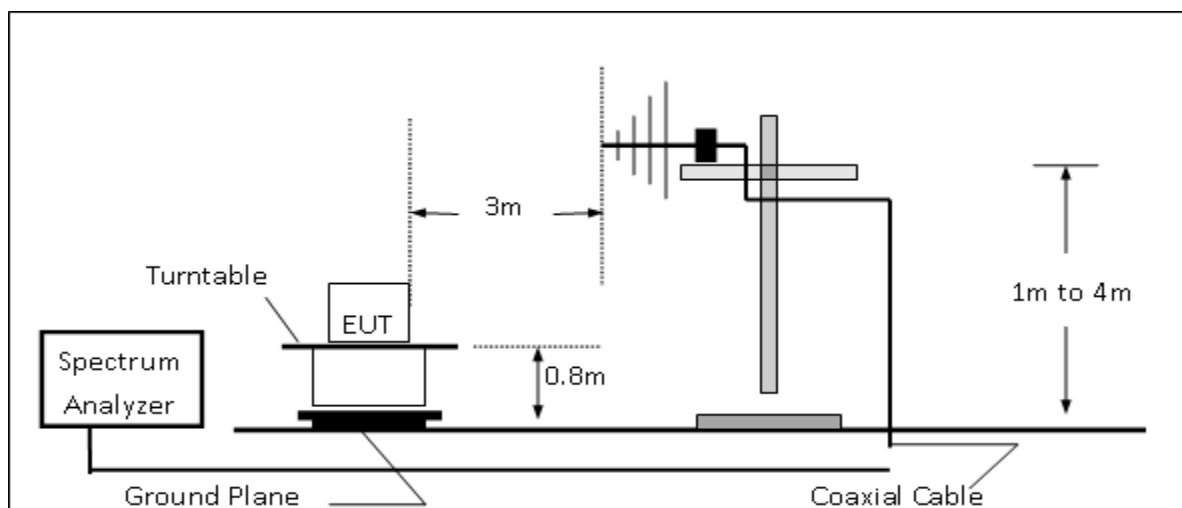
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11.3 Test SET-UP

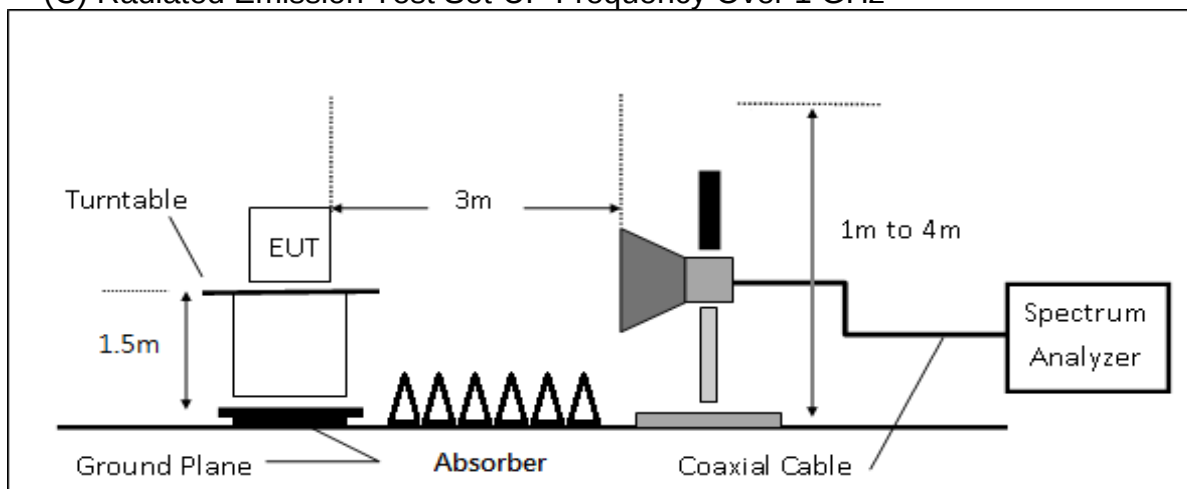
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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11.4 Measurement Procedure

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

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11.5 Field Strength Calculation

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

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

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

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

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

Note :

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

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

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

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

11.7 Measurement Result

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

Note: WPC wireless charging functions are implemented in field strength of spurious radiation measurement.

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Radiated Band Edge Measurement Result (802.11b)

Operation Mode :	802.11b	Test Date :	05/03/2016 14:30:13
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Kane
EUT Pol. :	E1 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	39.09	40.83	-1.74	54.00	-14.91
2390.00	E	Peak	51.52	53.26	-1.74	74.00	-22.48

Operation Mode :	802.11b	Test Date :	05/03/2016 14:37:32
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Kane
EUT Pol. :	E1 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	39.24	40.98	-1.74	54.00	-14.76
2390.00	E	Peak	50.19	51.93	-1.74	74.00	-23.81

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Operation Mode :	802.11b	Test Date :	05/03/2016 14:41:36
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH HIGH	Test Engineer :	Kane
EUT Pol. :	E1 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	37.71	39.33	-1.62	54.00	-16.29
2483.50	E	Peak	51.07	52.68	-1.62	74.00	-22.93

Operation Mode :	802.11b	Test Date :	05/03/2016 14:44:09
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH HIGH	Test Engineer :	Kane
EUT Pol. :	E1 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	39.38	41.00	-1.62	54.00	-14.62
2483.50	E	Peak	51.20	52.82	-1.62	74.00	-22.80

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Radiated Band Edge Measurement Result (802.11g)

Operation Mode :	802.11g	Test Date :	05/03/2016 14:54:02
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Kane
EUT Pol. :	E1 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	46.47	48.21	-1.74	54.00	-7.53
2390.00	E	Peak	61.35	63.10	-1.74	74.00	-12.65

Operation Mode :	802.11g	Test Date :	05/03/2016 15:01:19
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Kane
EUT Pol. :	E1 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	46.30	48.04	-1.74	54.00	-7.70
2390.00	E	Peak	62.22	63.97	-1.74	74.00	-11.78

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Operation Mode : 802.11g Test Date : 05/03/2016 15:12:03
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Kane
 EUT Pol. : E1 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	46.97	48.59	-1.62	54.00	-7.03
2483.50	E	Peak	62.66	64.28	-1.62	74.00	-11.34

Operation Mode : 802.11g Test Date : 05/03/2016 15:19:33
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Kane
 EUT Pol. : E1 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	47.95	49.57	-1.62	54.00	-6.05
2483.50	E	Peak	64.02	65.64	-1.62	74.00	-9.98

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Radiated Band Edge Measurement Result (802.11_HT20)

Operation Mode :	802.11n20	Test Date :	05/03/2016 15:29:31
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Kane
EUT Pol. :	E1 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	46.20	47.94	-1.74	54.00	-7.80
2390.00	E	Peak	61.62	63.37	-1.74	74.00	-12.38

Operation Mode :	802.11n20	Test Date :	05/03/2016 15:36:49
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Kane
EUT Pol. :	E1 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	46.82	48.56	-1.74	54.00	-7.18
2390.00	E	Peak	62.33	64.08	-1.74	74.00	-11.67

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Operation Mode : 802.11n20 Test Date : 05/03/2016 15:43:36
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Kane
 EUT Pol. : E1 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	47.56	49.18	-1.62	54.00	-6.44
2483.50	E	Peak	62.84	64.46	-1.62	74.00	-11.16

Operation Mode : 802.11n20 Test Date : 05/03/2016 15:47:19
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Kane
 EUT Pol. : E1 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	48.58	50.20	-1.62	54.00	-5.42
2483.50	E	Peak	64.60	66.22	-1.62	74.00	-9.40

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Radiated Band Edge Measurement Result (802.11_HT40)

Operation Mode :	802.11n40	Test Date :	05/03/2016 15:56:54
Fundamental Frequency :	2422 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Kane
EUT Pol. :	E1 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	47.96	49.70	-1.74	54.00	-6.04
2390.00	E	Peak	65.37	67.11	-1.74	74.00	-8.63

Operation Mode :	802.11n40	Test Date :	05/03/2016 16:08:43
Fundamental Frequency :	2422 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Kane
EUT Pol. :	E1 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	48.51	50.25	-1.74	54.00	-5.49
2390.00	E	Peak	67.14	68.89	-1.74	74.00	-6.86

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Operation Mode :	802.11n40	Test Date :	05/03/2016 16:33:36
Fundamental Frequency :	2422 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH HIGH	Test Engineer :	Kane
EUT Pol. :	E1 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	49.30	50.92	-1.62	54.00	-4.70
2483.50	E	Peak	63.39	65.00	-1.62	74.00	-10.61
2485.00	S	Average	48.29	49.91	-1.62	54.00	-5.71
2485.00	S	Peak	66.37	67.98	-1.62	74.00	-7.63

Operation Mode :	802.11n40	Test Date :	05/03/2016 16:22:16
Fundamental Frequency :	2422 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH HIGH	Test Engineer :	Kane
EUT Pol. :	E1 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	49.49	51.11	-1.62	54.00	-4.51
2483.50	E	Peak	65.84	67.46	-1.62	74.00	-8.16
2484.90	S	Average	48.83	50.45	-1.62	54.00	-5.17
2484.90	S	Peak	70.37	71.98	-1.62	74.00	-3.63

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Radiated Band Edge Measurement Result (802.11b) * Wireless Charging Mode

Operation Mode :	802.11b	Test Date :	05/20/2016 15:37:38
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	38.66	40.40	-1.74	54.00	-15.34
2390.00	E	Peak	51.05	52.79	-1.74	74.00	-22.95

Operation Mode :	802.11b	Test Date :	05/20/2016 15:37:49
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	38.86	40.60	-1.74	54.00	-15.14
2390.00	E	Peak	49.77	51.51	-1.74	74.00	-24.23

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Operation Mode : 802.11b Test Date : 05/20/2016 15:38:03
 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	37.29	38.91	-1.62	54.00	-16.71
2483.50	E	Peak	50.66	52.27	-1.62	74.00	-23.34

Operation Mode : 802.11b Test Date : 05/20/2016 15:38:18
 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	39.14	40.76	-1.62	54.00	-14.86
2483.50	E	Peak	50.73	52.35	-1.62	74.00	-23.27

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Radiated Band Edge Measurement Result (802.11g) * Wireless Charging Mode

Operation Mode :	802.11g	Test Date :	05/20/2016 15:38:35
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	46.09	47.83	-1.74	54.00	-7.91
2390.00	E	Peak	60.93	62.68	-1.74	74.00	-13.07

Operation Mode :	802.11g	Test Date :	05/20/2016 15:38:49
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	45.92	47.66	-1.74	54.00	-8.08
2390.00	E	Peak	61.81	63.56	-1.74	74.00	-12.19

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Operation Mode : 802.11g Test Date : 05/20/2016 15:39:07
 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	46.70	48.32	-1.62	54.00	-7.30
2483.50	E	Peak	62.32	63.94	-1.62	74.00	-11.68

Operation Mode : 802.11g Test Date : 05/20/2016 15:39:25
 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	47.71	49.33	-1.62	54.00	-6.29
2483.50	E	Peak	63.55	65.17	-1.62	74.00	-10.45

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Radiated Band Edge Measurement Result (802.11_HT20) * Wireless Charging Mode

Operation Mode :	802.11n20	Test Date :	05/20/2016 15:39:43
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	45.84	47.58	-1.74	54.00	-8.16
2390.00	E	Peak	61.17	62.92	-1.74	74.00	-12.83

Operation Mode :	802.11n20	Test Date :	05/20/2016 15:39:55
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	46.30	48.04	-1.74	54.00	-7.70
2390.00	E	Peak	61.90	63.65	-1.74	74.00	-12.10

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Operation Mode :	802.11n20	Test Date :	05/20/2016 15:40:16
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	47.09	48.71	-1.62	54.00	-6.91
2483.50	E	Peak	62.47	64.09	-1.62	74.00	-11.53

Operation Mode :	802.11n20	Test Date :	05/20/2016 15:40:49
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	48.21	49.83	-1.62	54.00	-5.79
2483.50	E	Peak	64.19	65.81	-1.62	74.00	-9.81

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Radiated Band Edge Measurement Result (802.11_HT40) * Wireless Charging Mode

Operation Mode :	802.11n40	Test Date :	05/20/2016 15:41:20
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
2390.00	E	Average	47.55	49.29	-1.74	54.00	-6.45
2390.00	E	Peak	65.01	66.75	-1.74	74.00	-8.99

Operation Mode :	802.11n40	Test Date :	05/20/2016 15:41:40
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	47.94	49.68	-1.74	54.00	-6.06
2390.00	E	Peak	66.56	68.31	-1.74	74.00	-7.44

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Operation Mode : 802.11n40 Test Date : 05/20/2016 15:42:39
 Fundamental Frequency : 2422 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	47.93	49.55	-1.62	54.00	-6.07
2483.50	E	Peak	65.98	67.59	-1.62	74.00	-8.02

Operation Mode : 802.11n40 Test Date : 05/20/2016 15:43:16
 Fundamental Frequency : 2422 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	48.51	50.13	-1.62	54.00	-5.49
2483.50	E	Peak	70.06	71.67	-1.62	74.00	-3.94

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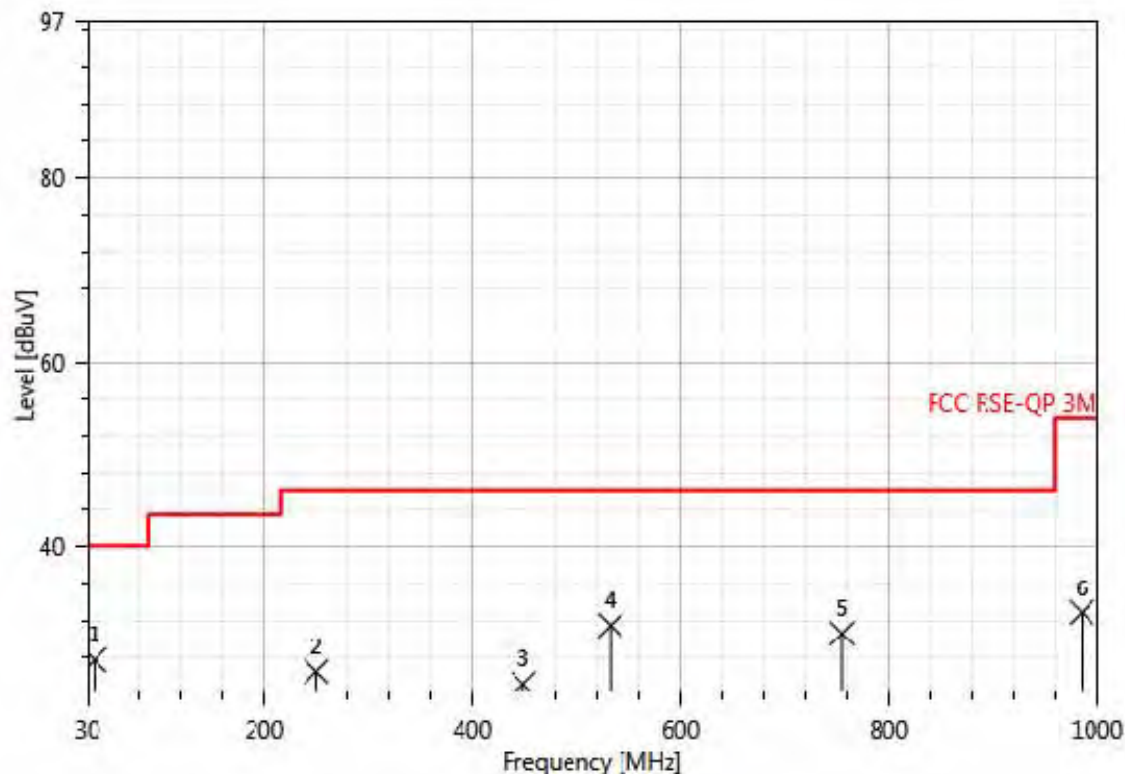
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Below 1GHz Worst-Case Data:

Radiated Spurious Emission Measurement Result (802.11 g)

Operation Mode :	802.11g	Test Date :	05/04/2016 10:23:28
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E1 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
36.79	S	Peak	27.70	36.53	-8.84	40.00	-12.30
250.19	S	Peak	26.45	34.37	-7.93	46.00	-19.55
449.04	S	Peak	25.11	28.08	-2.96	46.00	-20.89
532.46	S	Peak	31.43	33.11	-1.68	46.00	-14.57
755.56	S	Peak	30.57	27.76	2.81	46.00	-15.43
985.45	S	Peak	32.84	26.79	6.05	54.00	-21.16

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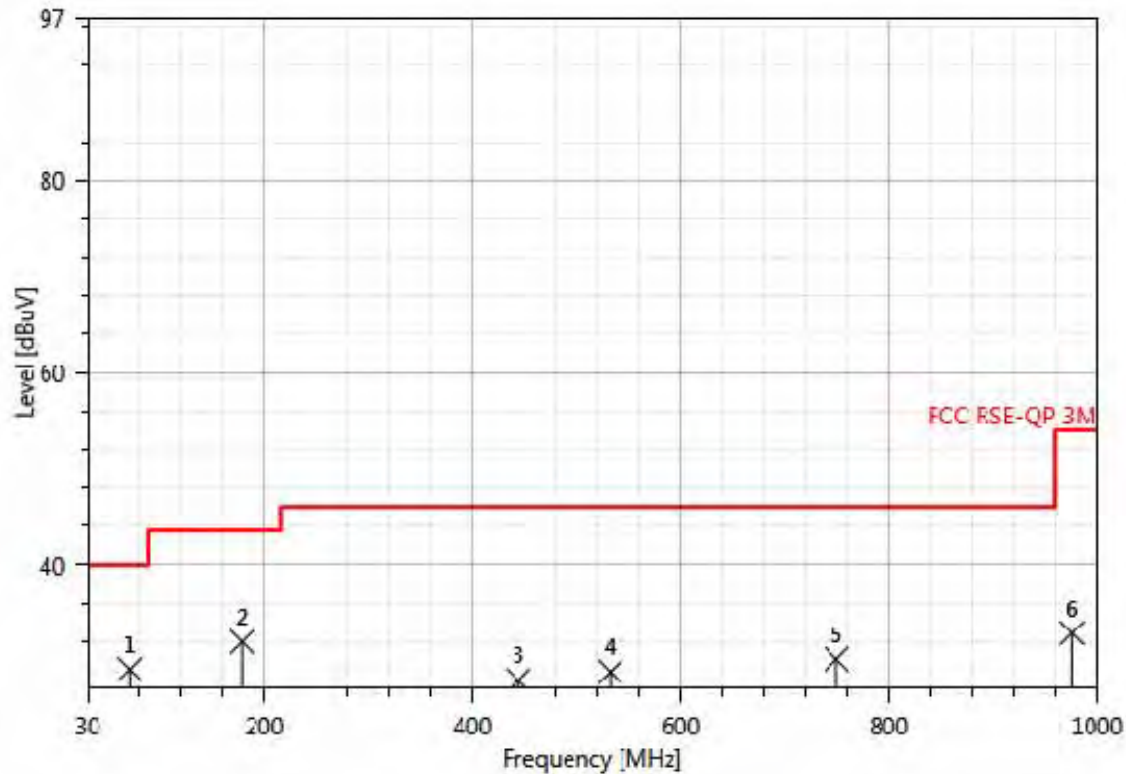
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Operation Mode :	802.11g	Test Date :	05/04/2016 10:23:30
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



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
70.74	S	Peak	29.07	39.49	-10.42	40.00	-10.93
178.41	S	Peak	31.93	40.48	-8.55	43.50	-11.57
444.19	S	Peak	27.92	31.14	-3.22	46.00	-18.08
532.46	S	Peak	28.81	30.49	-1.68	46.00	-17.19
749.74	S	Peak	30.14	27.42	2.72	46.00	-15.86
975.75	S	Peak	32.85	26.63	6.21	54.00	-21.15

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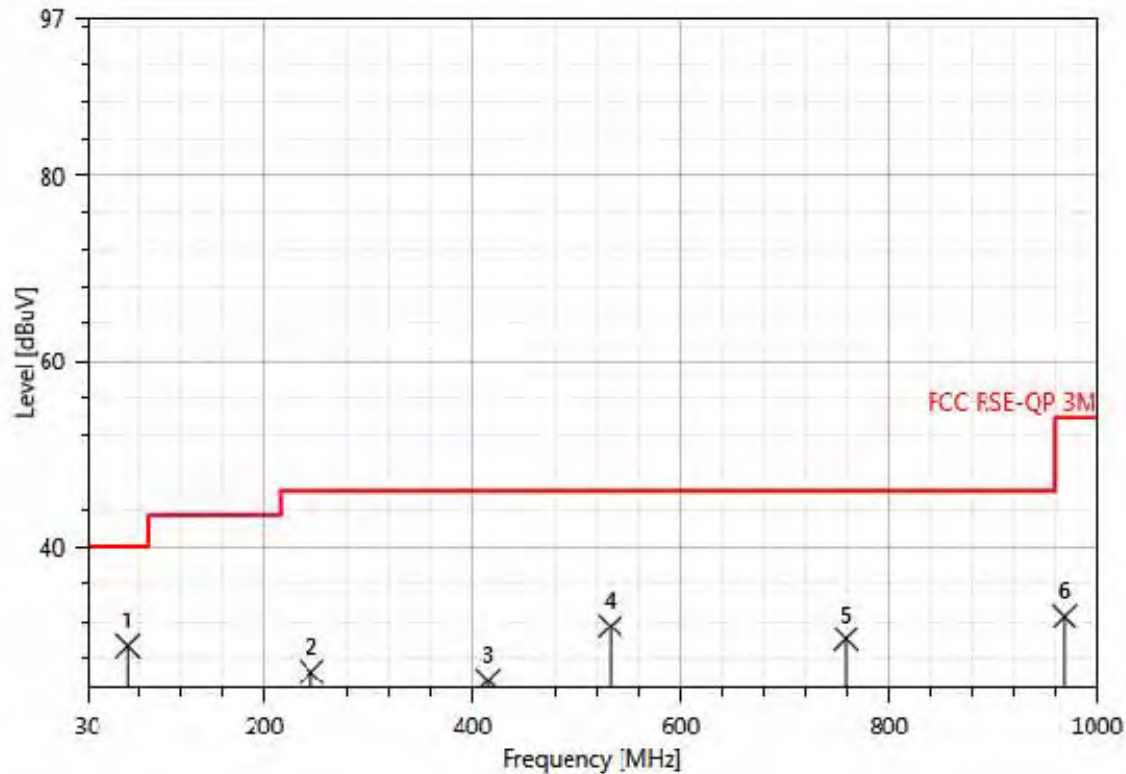
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Operation Mode :	802.11g	Test Date :	05/04/2016 10:23:31
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



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
68.80	S	Peak	29.28	39.26	-9.98	40.00	-10.72
245.34	S	Peak	26.51	34.54	-8.03	46.00	-19.49
415.09	S	Peak	25.61	28.81	-3.21	46.00	-20.39
532.46	S	Peak	31.44	33.12	-1.68	46.00	-14.56
759.44	S	Peak	30.06	27.05	3.01	46.00	-15.94
968.96	S	Peak	32.52	26.31	6.21	54.00	-21.48

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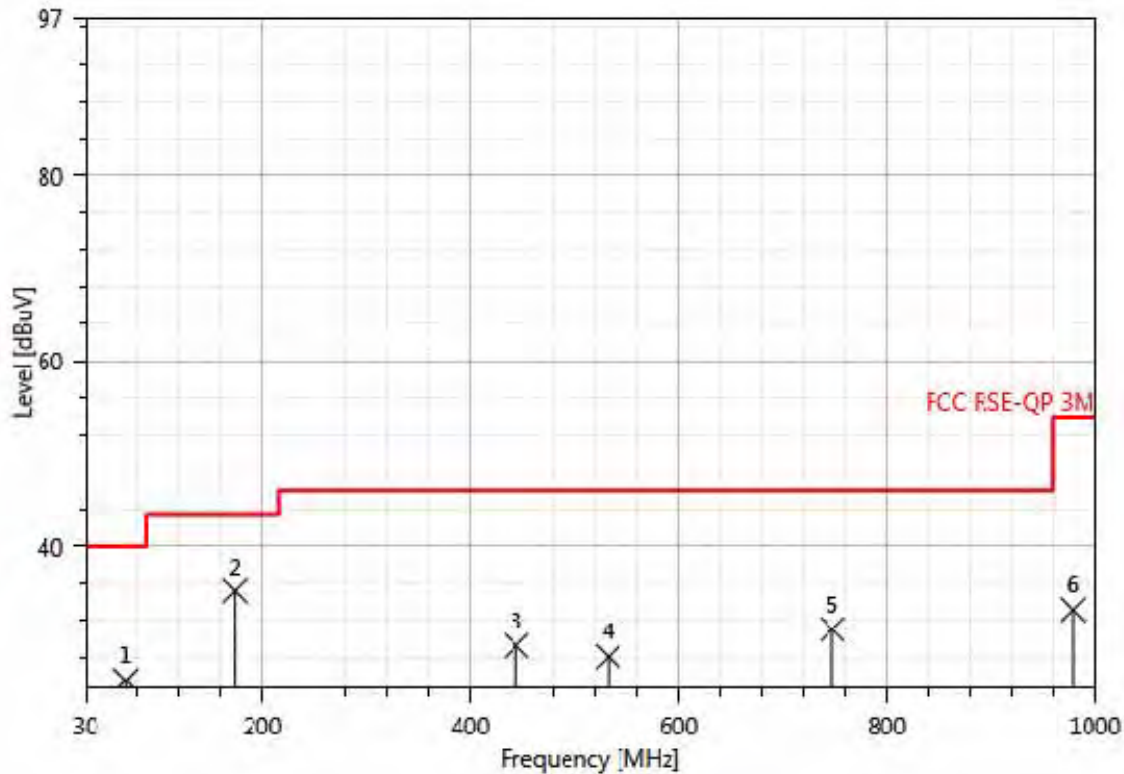
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Operation Mode :	802.11g	Test Date :	05/04/2016 10:23:32
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



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
68.80	S	Peak	25.55	35.53	-9.98	40.00	-14.45
173.56	S	Peak	35.16	43.12	-7.96	43.50	-8.34
444.19	S	Peak	29.28	32.50	-3.22	46.00	-16.72
532.46	S	Peak	28.11	29.79	-1.68	46.00	-17.89
747.80	S	Peak	31.05	28.55	2.50	46.00	-14.95
978.66	S	Peak	33.16	26.89	6.28	54.00	-20.84

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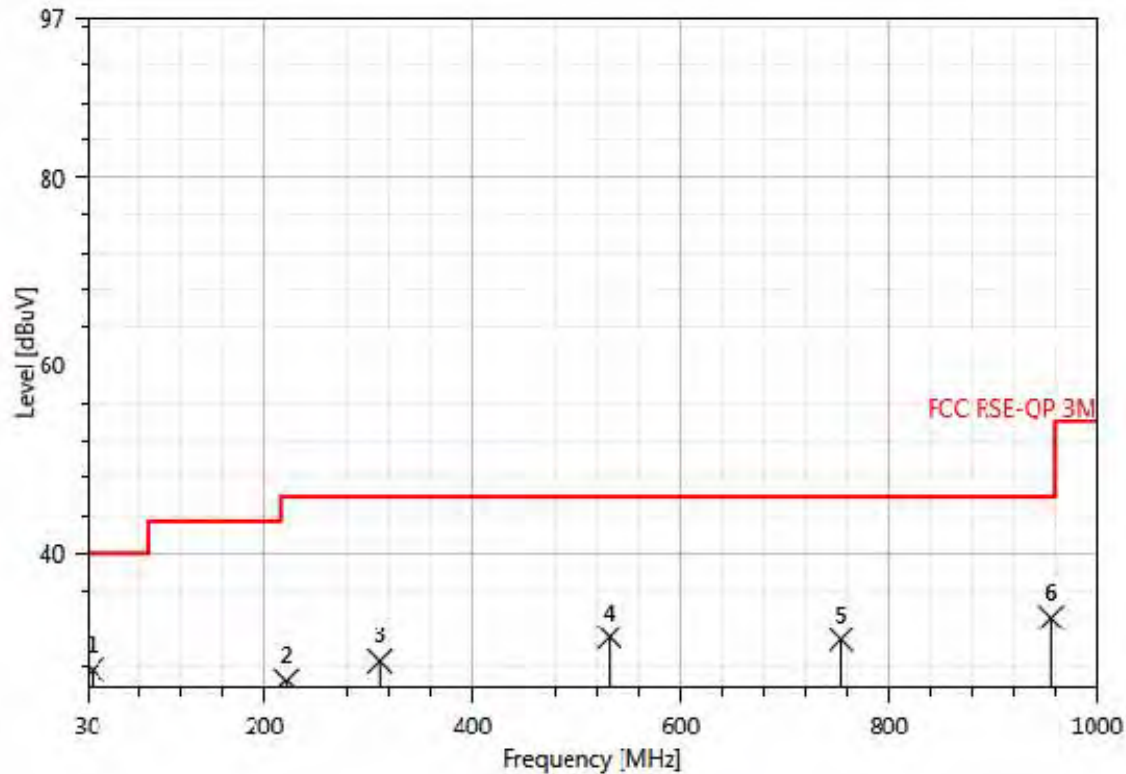
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Operation Mode :	802.11g	Test Date :	05/04/2016 10:23:33
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



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
34.85	S	Peak	27.63	36.63	-9.00	40.00	-12.37
221.09	S	Peak	26.47	35.70	-9.23	46.00	-19.53
311.30	S	Peak	28.55	34.00	-5.45	46.00	-17.45
531.49	S	Peak	31.06	32.62	-1.57	46.00	-14.94
754.59	S	Peak	30.80	28.10	2.70	46.00	-15.20
956.35	S	Peak	33.15	27.62	5.52	46.00	-12.85

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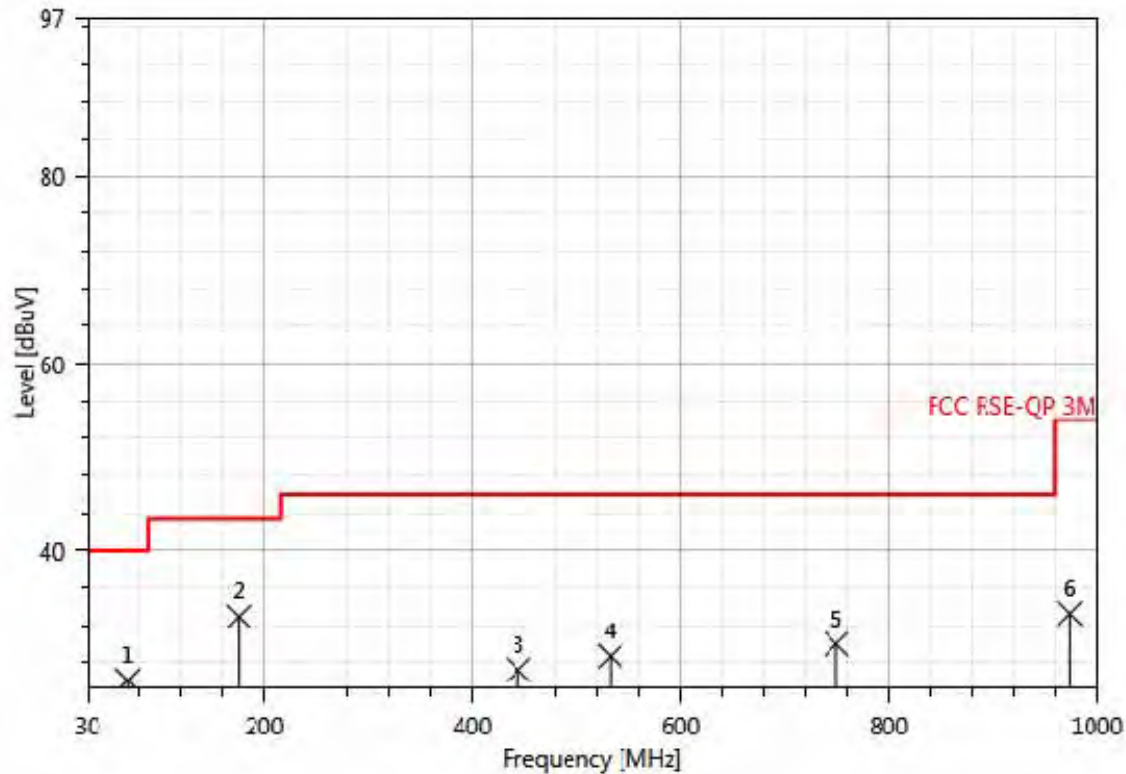
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Operation Mode :	802.11g	Test Date :	05/04/2016 10:23:34
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



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
68.80	S	Peak	26.11	36.10	-9.98	40.00	-13.89
175.50	S	Peak	32.94	41.15	-8.21	43.50	-10.56
444.19	S	Peak	27.25	30.47	-3.22	46.00	-18.75
532.46	S	Peak	28.71	30.39	-1.68	46.00	-17.29
749.74	S	Peak	29.99	27.27	2.72	46.00	-16.01
973.81	S	Peak	33.29	27.13	6.16	54.00	-20.71

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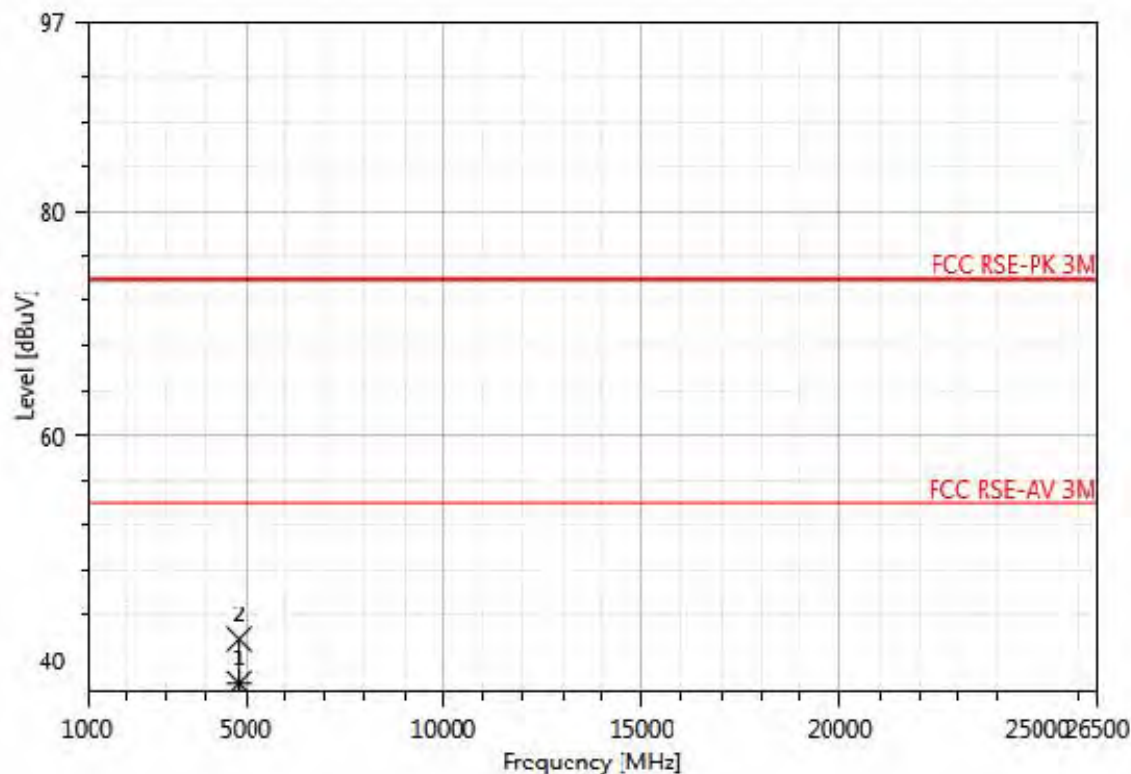
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Above 1GHz Data:

Radiated Spurious Emission Measurement Result (802.11 b)

Operation Mode :	802.11b	Test Date :	05/05/2016 10:25:08
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E1 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
4824.00	H	Average	37.88	32.94	4.94	54.00	-16.12
4824.00	H	Peak	41.87	36.93	4.94	74.00	-32.13

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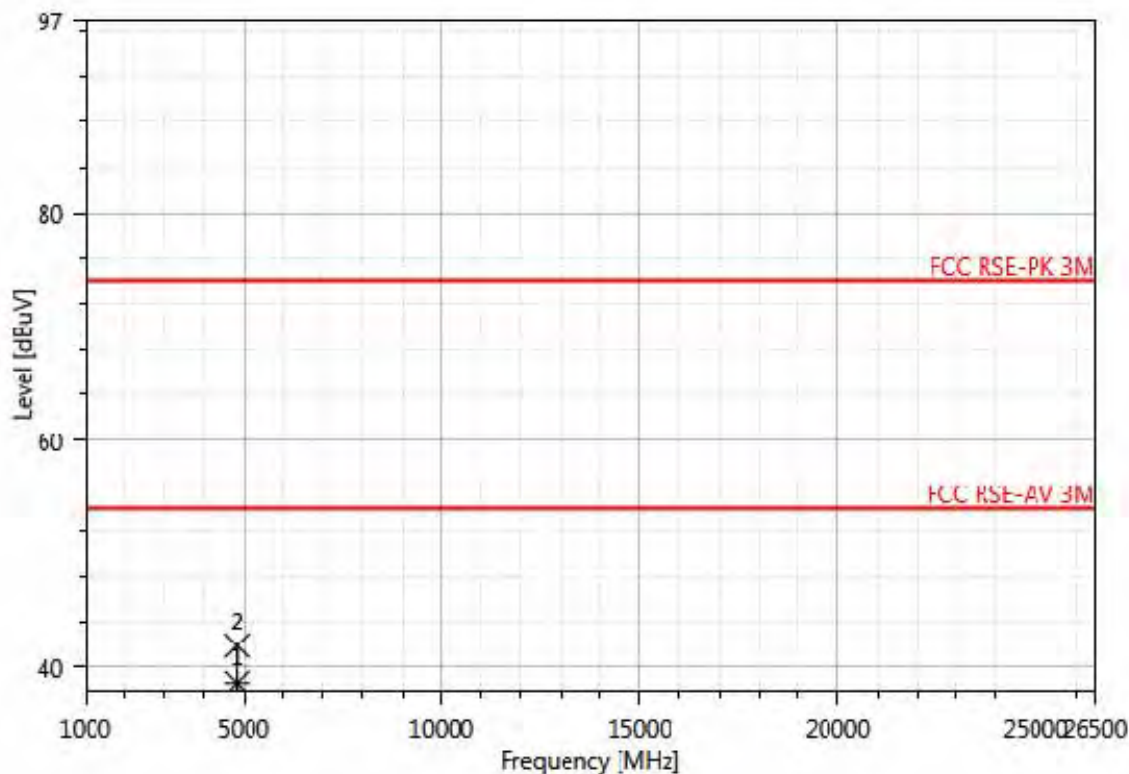
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Operation Mode :	802.11b	Test Date :	05/05/2016 10:26:47
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



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	38.62	33.68	4.94	54.00	-15.38
4824.00	H	Peak	41.90	36.96	4.94	74.00	-32.10

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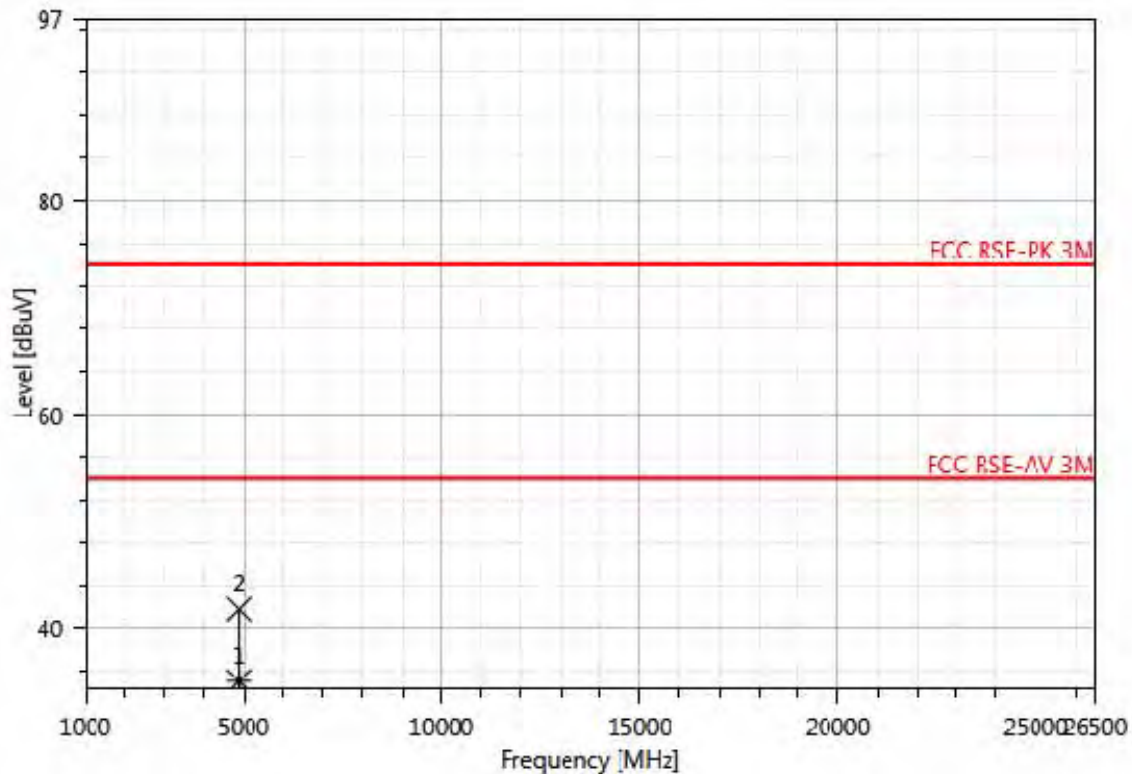
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Operation Mode : 802.11b Test Date : 05/05/2016 10:33:44
Fundamental Frequency : 2437 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH MID Test Engineer : Kane
EUT Pol. : E1 Plane Measurement Antenna Pol. : VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBuV/m	dBuV/m	dB	dBuV/m	dB
4874.00	H	Average	35.07	29.94	5.13	54.00	-18.93
4874.00	H	Peak	41.84	36.71	5.13	74.00	-32.16

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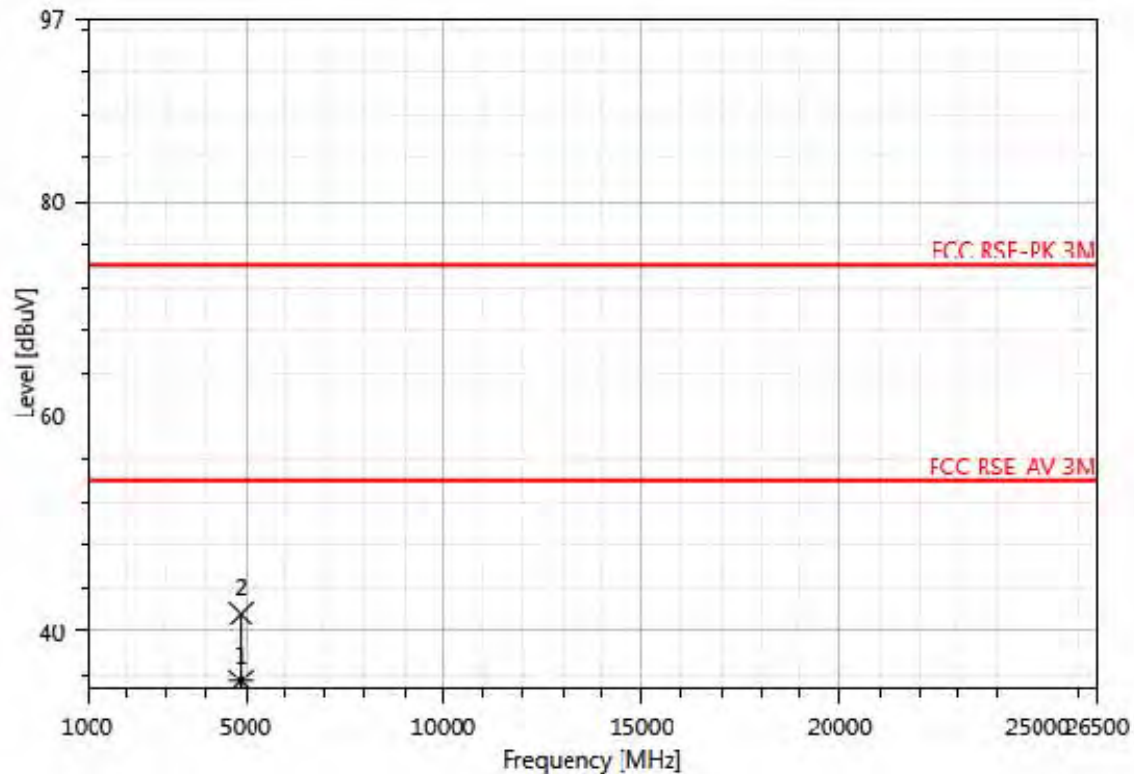
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Operation Mode :	802.11b	Test Date :	05/05/2016 10:34:58
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



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
4874.00	H	Average	35.35	30.22	5.13	54.00	-18.65
4874.00	H	Peak	41.65	36.51	5.13	74.00	-32.35

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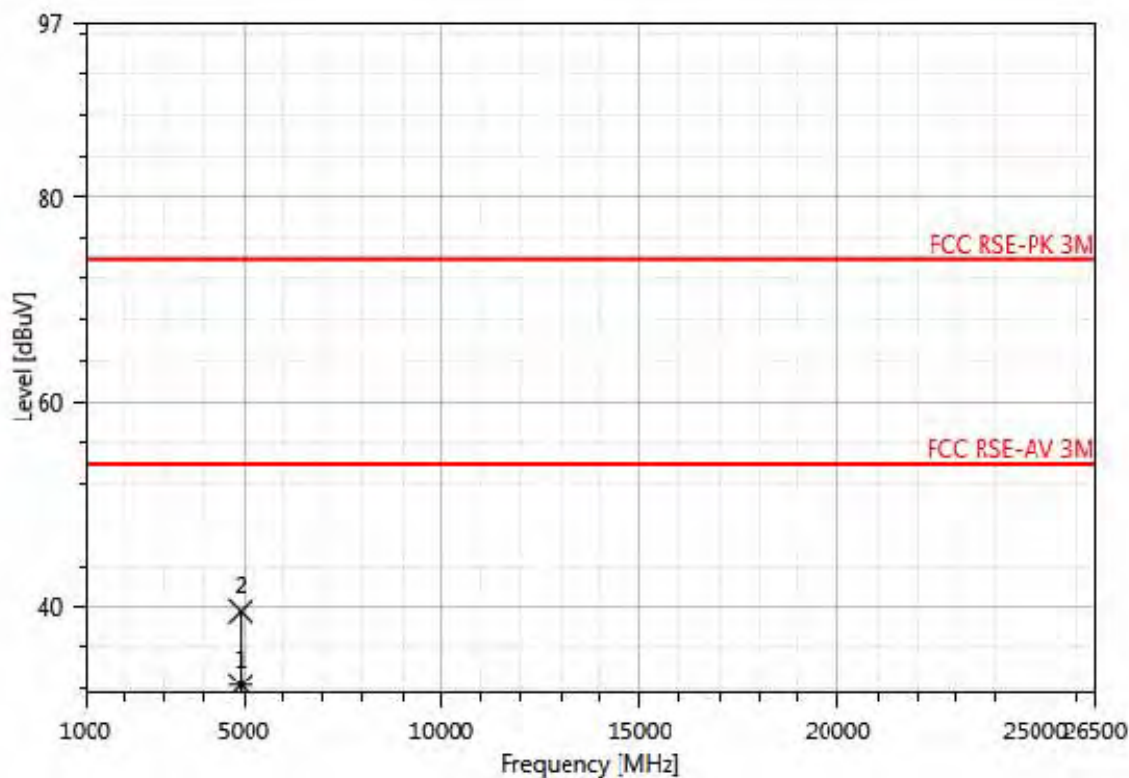
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Operation Mode : 802.11b Test Date : 05/05/2016 10:41:04
Fundamental Frequency : 2462 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH HIGH Test Engineer : Kane
EUT Pol. : E1 Plane Measurement Antenna Pol. : VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBuV/m	dBuV/m	dB	dBuV/m	dB
4924.00	H	Average	32.34	27.09	5.25	54.00	-21.66
4924.00	H	Peak	39.58	34.33	5.25	74.00	-34.42

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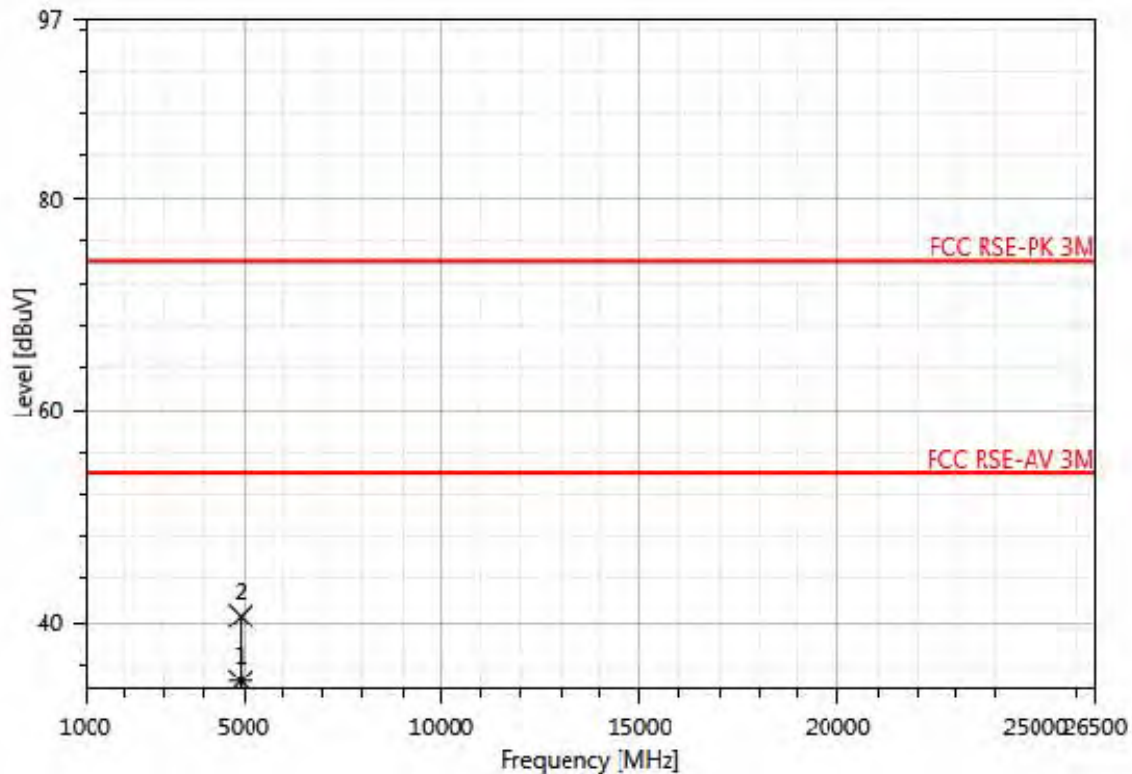
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Operation Mode : 802.11b Test Date : 05/05/2016 10:44:25
Fundamental Frequency : 2462 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH HIGH Test Engineer : Kane
EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



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
4924.00	H	Average	34.38	29.13	5.25	54.00	-19.62
4924.00	H	Peak	40.55	35.30	5.25	74.00	-33.45

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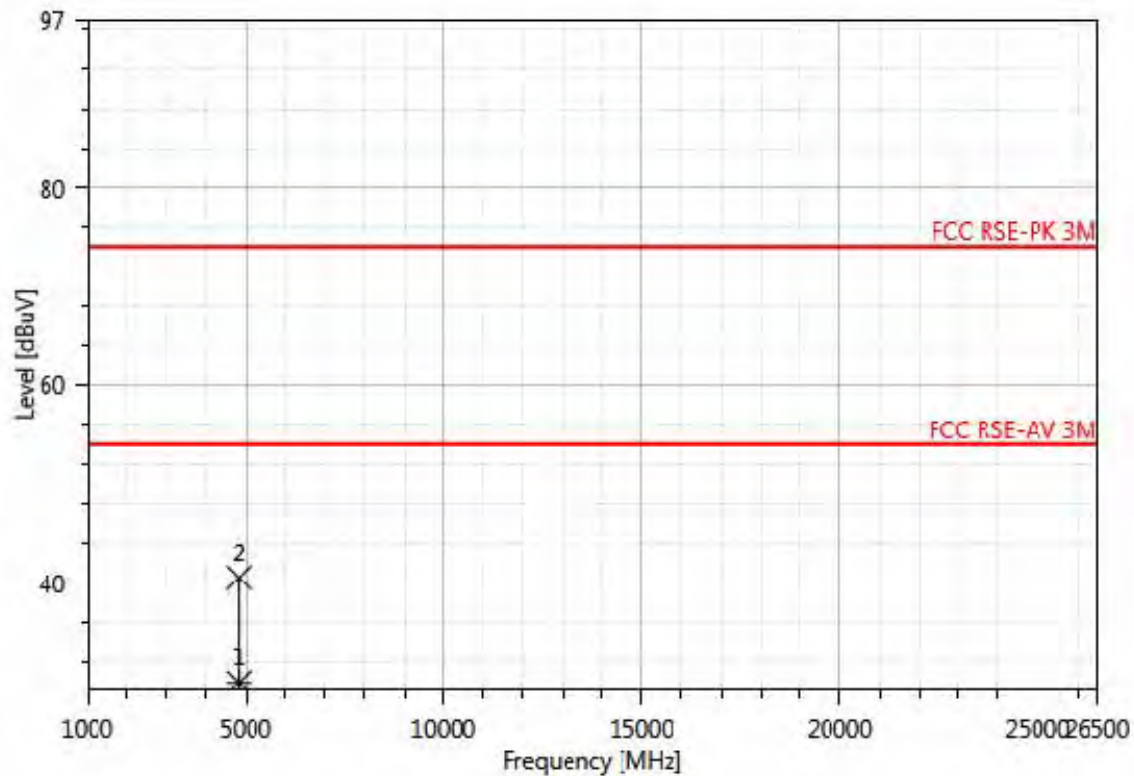
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Radiated Spurious Emission Measurement Result (802.11 g)

Operation Mode :	802.11g	Test Date :	05/10/2016 14:05:07
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBuV/m	dBuV/m	dB	dBuV/m	dB
4824.00	H	Average	29.85	24.91	4.94	54.00	-24.15
4824.00	H	Peak	40.48	35.54	4.94	74.00	-33.52

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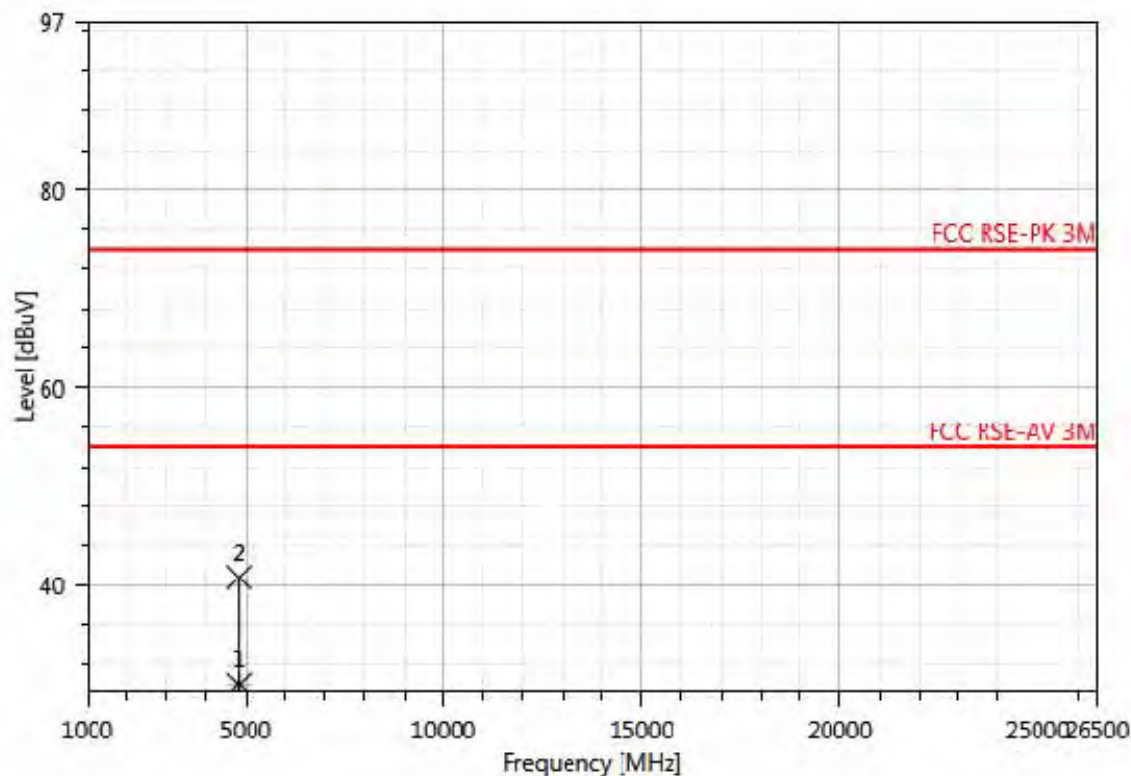
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Operation Mode :	802.11g	Test Date :	05/05/2016 10:51:09
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4824.00	H	Average	29.97	25.03	4.94	54.00	-24.03
4824.00	H	Peak	40.80	35.86	4.94	74.00	-33.20

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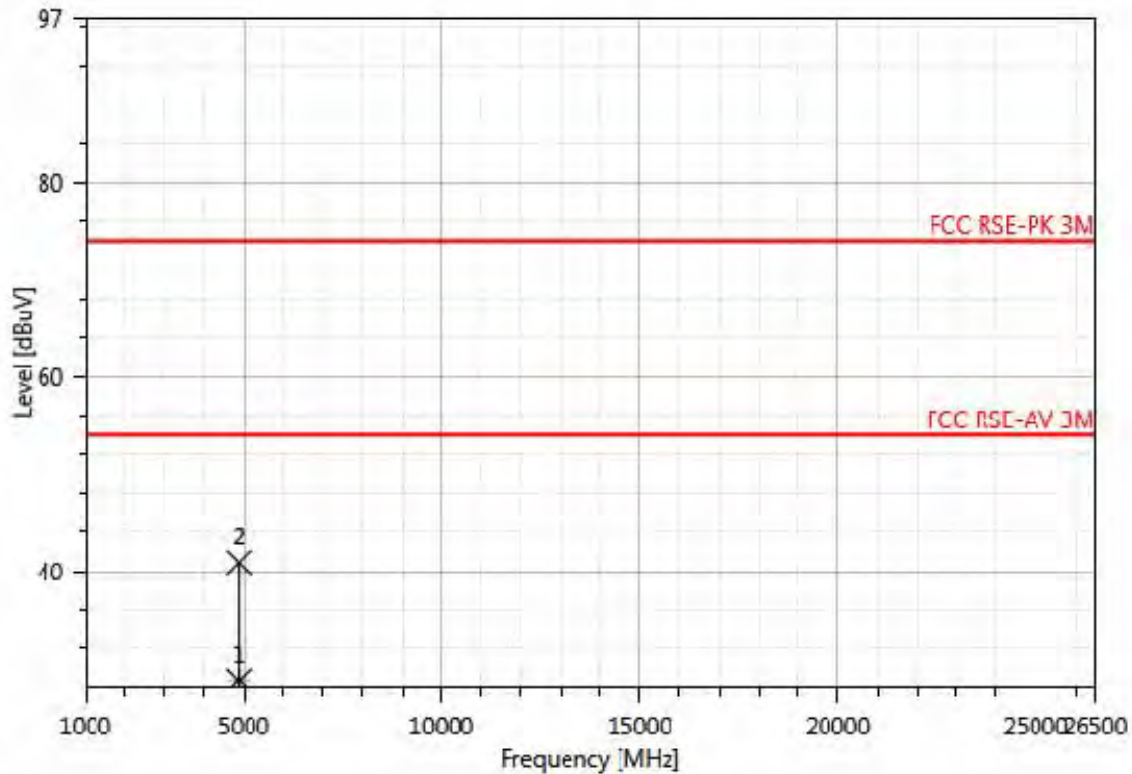
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Operation Mode :	802.11g	Test Date :	05/05/2016 10:59:39
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4874.00	H	Average	28.71	23.58	5.13	54.00	-25.29
4874.00	H	Peak	40.89	35.75	5.13	74.00	-33.11

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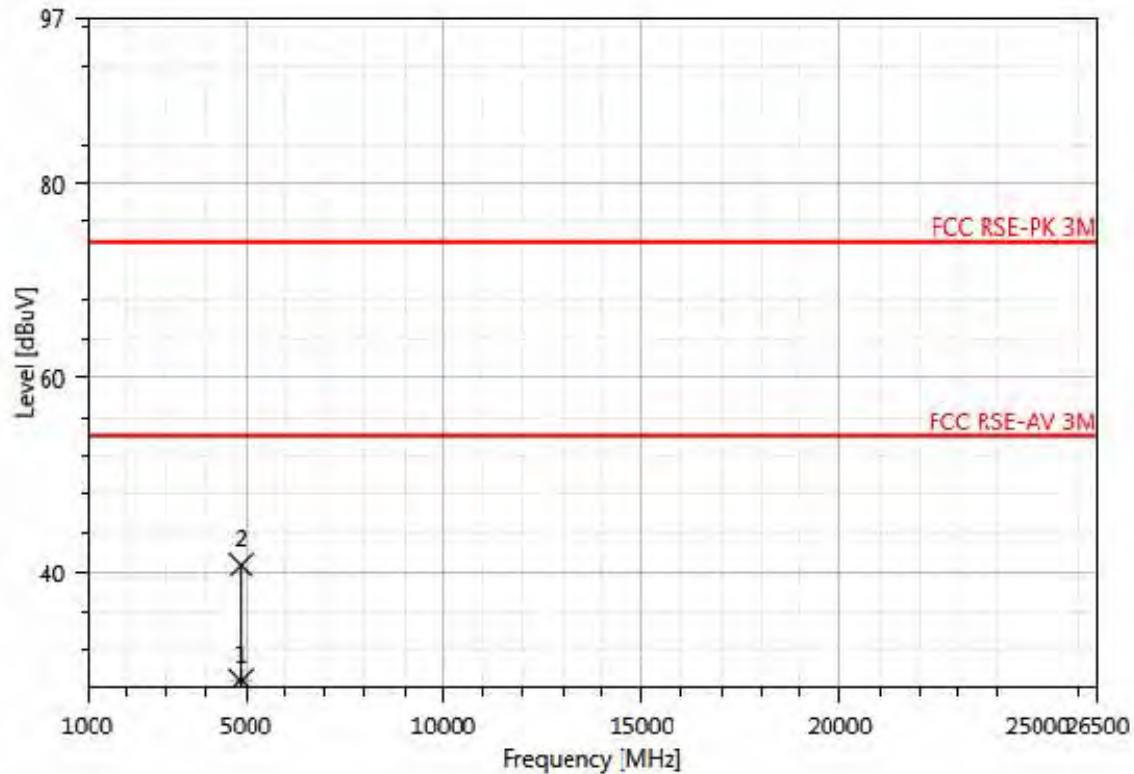
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Operation Mode :	802.11g	Test Date :	05/05/2016 11:00:09
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4874.00	H	Average	28.88	23.75	5.13	54.00	-25.12
4874.00	H	Peak	40.77	35.63	5.13	74.00	-33.23

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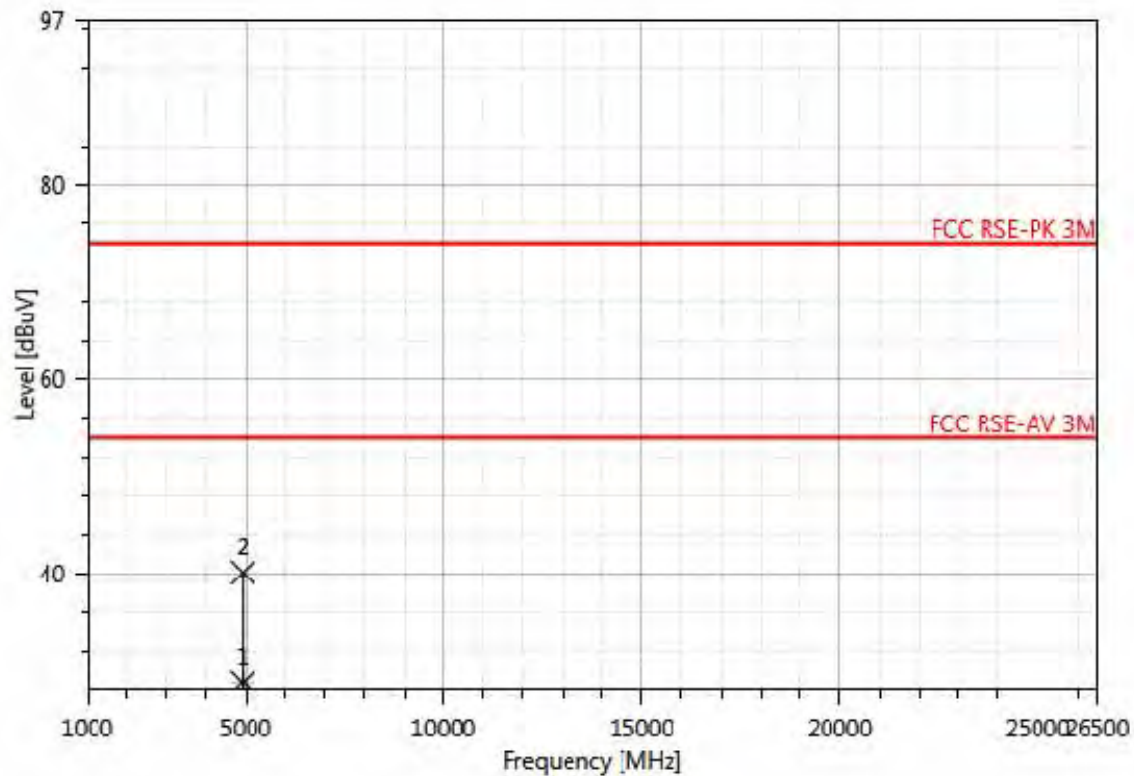
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Operation Mode :	802.11g	Test Date :	05/05/2016 11:05:25
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4924.00	H	Average	28.81	23.56	5.25	54.00	-25.19
4924.00	H	Peak	40.10	34.85	5.25	74.00	-33.90

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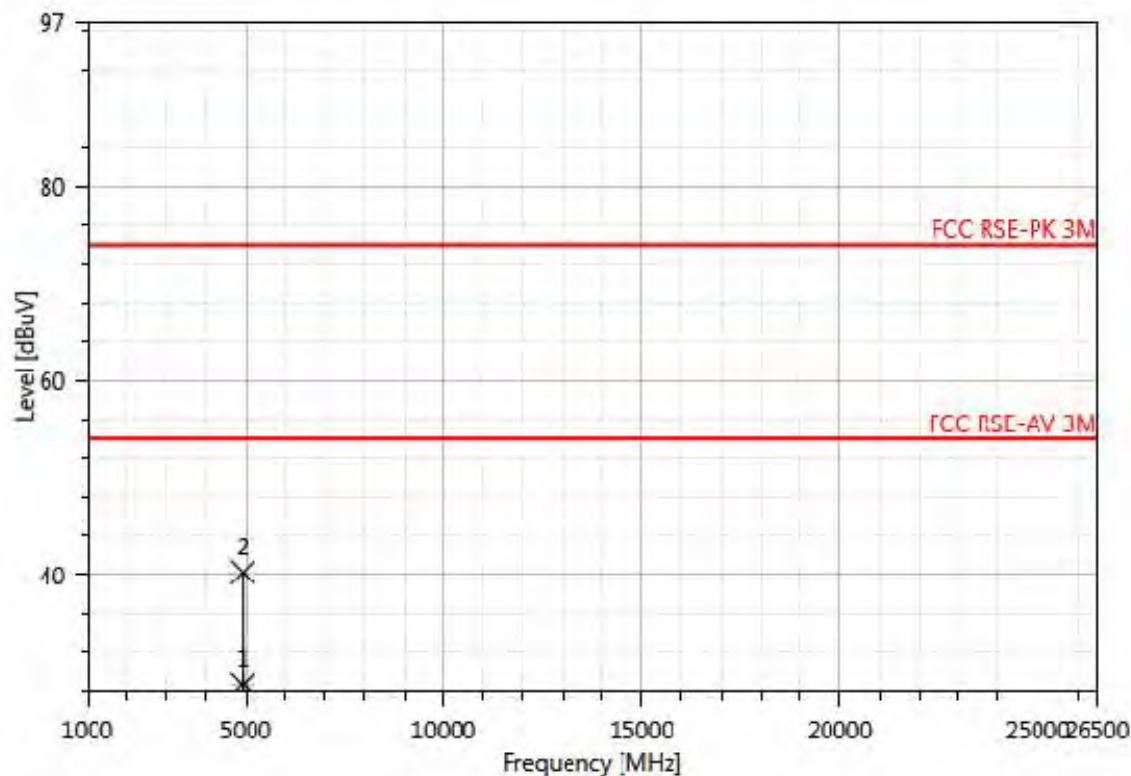
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Operation Mode :	802.11g	Test Date :	05/05/2016 11:05:55
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBuV/m	dBuV/m	dB	dBuV/m	dB
4924.00	H	Average	28.67	23.42	5.25	54.00	-25.33
4924.00	H	Peak	40.24	34.99	5.25	74.00	-33.76

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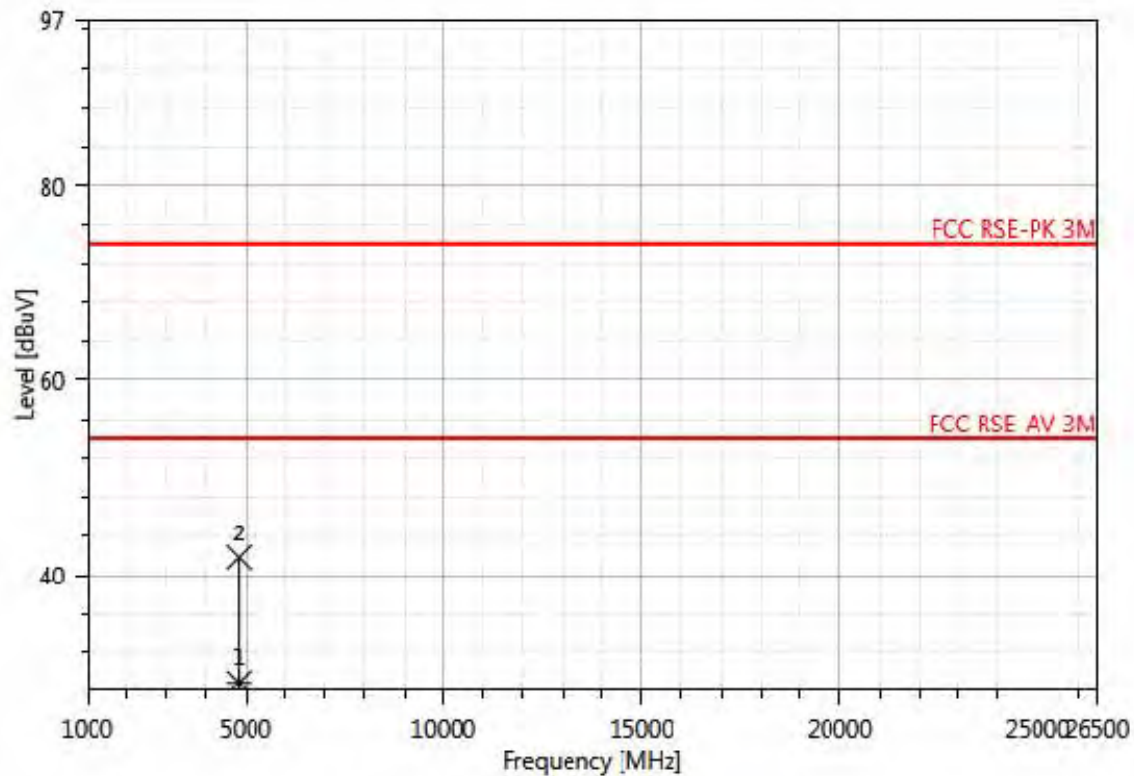
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Radiated Spurious Emission Measurement Result (802.11_HT20)

Operation Mode :	802.11n20	Test Date :	05/05/2016 11:12:03
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBuV/m	dBuV/m	dB	dBuV/m	dB
4824.00	H	Average	28.95	24.01	4.94	54.00	-25.05
4824.00	H	Peak	41.82	36.87	4.94	74.00	-32.18

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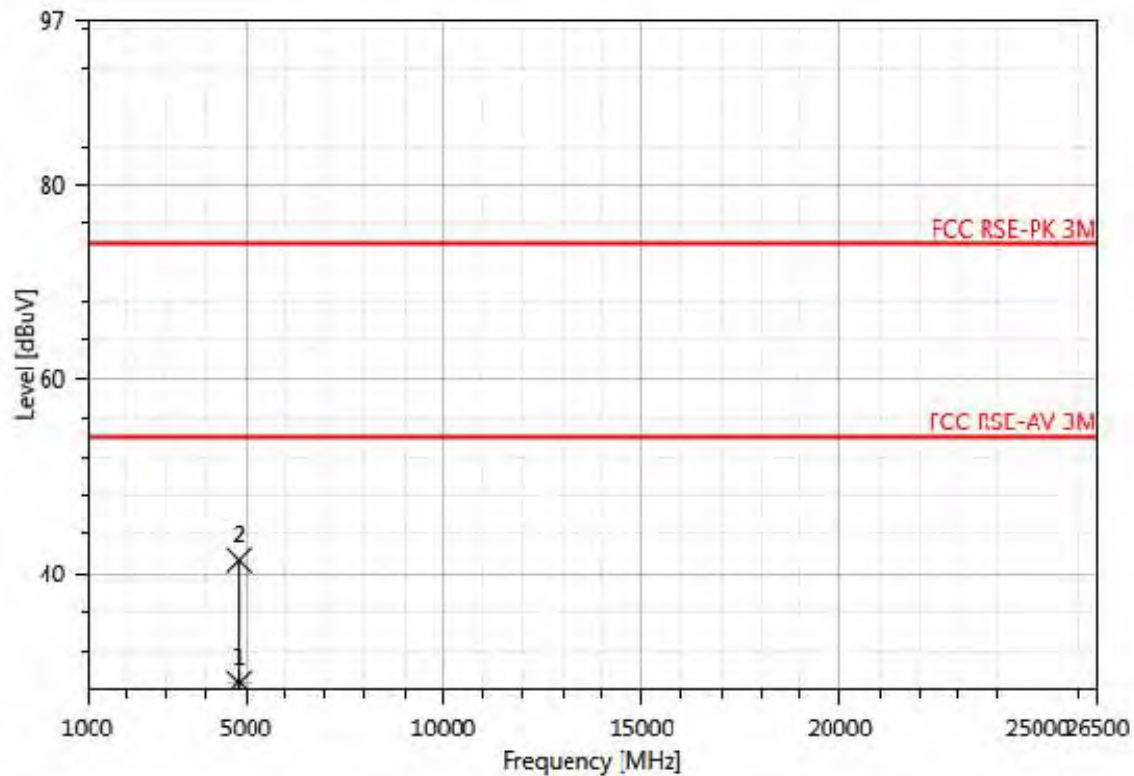
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Operation Mode :	802.11n20	Test Date :	05/05/2016 11:12:35
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4824.00	H	Average	28.79	23.85	4.94	54.00	-25.21
4824.00	H	Peak	41.40	36.46	4.94	74.00	-32.60

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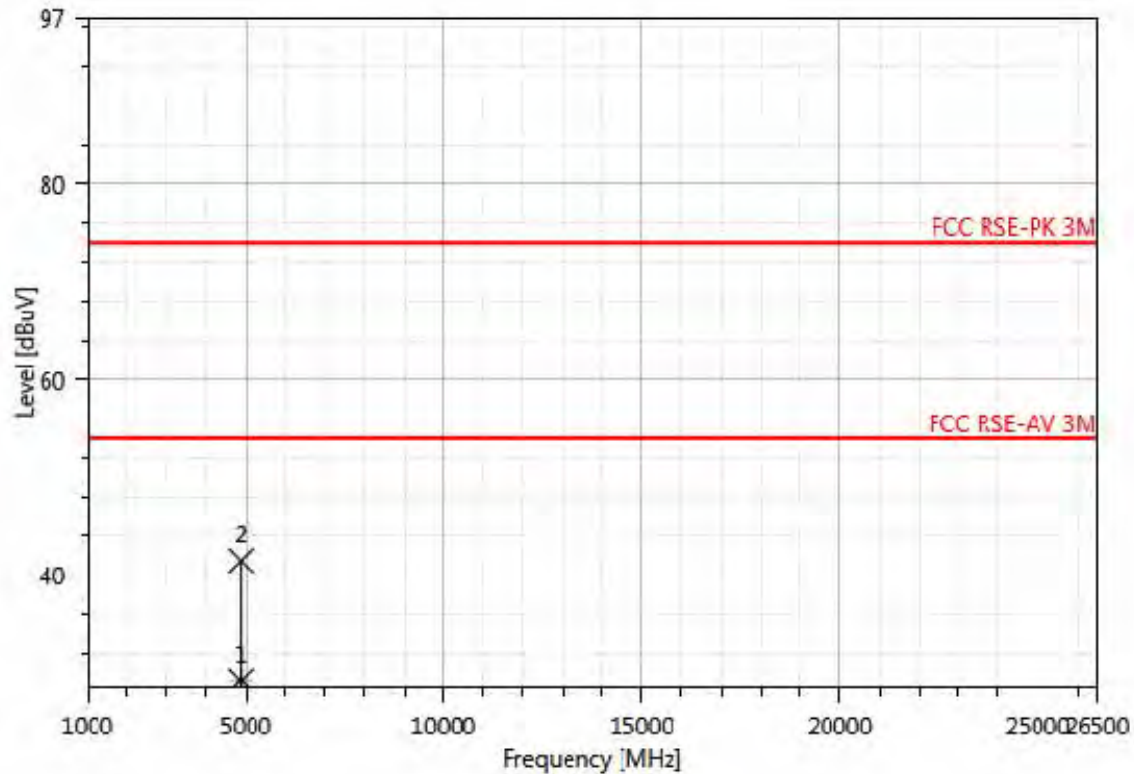
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Operation Mode :	802.11n20	Test Date :	05/05/2016 11:18:11
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4874.00	H	Average	29.25	24.12	5.13	54.00	-24.75
4874.00	H	Peak	41.50	36.37	5.13	74.00	-32.50

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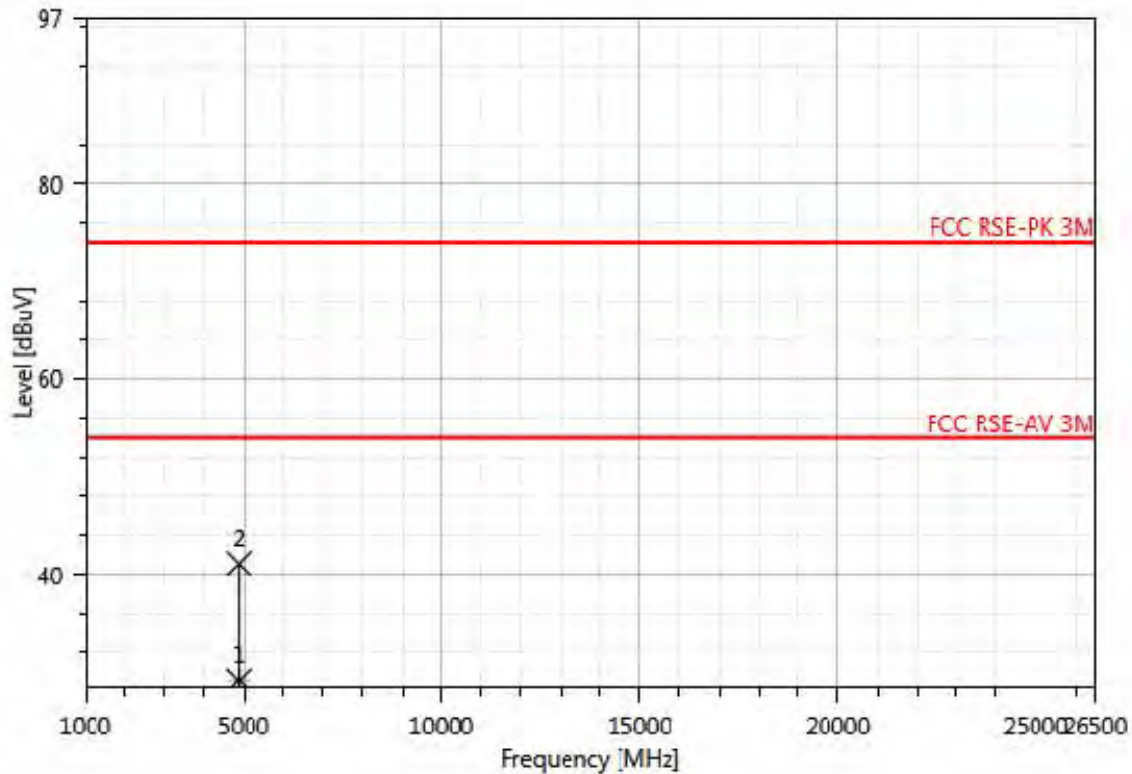
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Operation Mode :	802.11n20	Test Date :	05/05/2016 11:18:53
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4874.00	H	Average	29.14	24.01	5.13	54.00	-24.86
4874.00	H	Peak	41.12	35.99	5.13	74.00	-32.88

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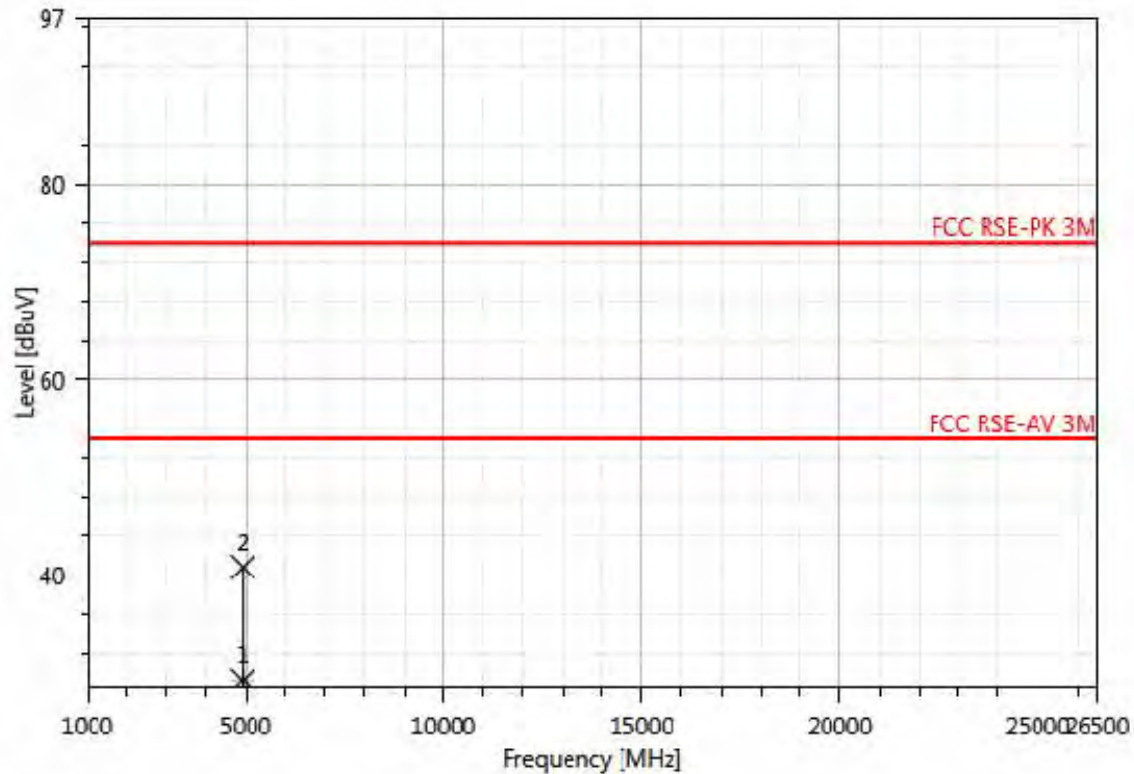
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Operation Mode :	802.11n20	Test Date :	05/05/2016 11:24:31
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4924.00	H	Average	29.28	24.03	5.25	54.00	-24.72
4924.00	H	Peak	40.87	35.62	5.25	74.00	-33.13

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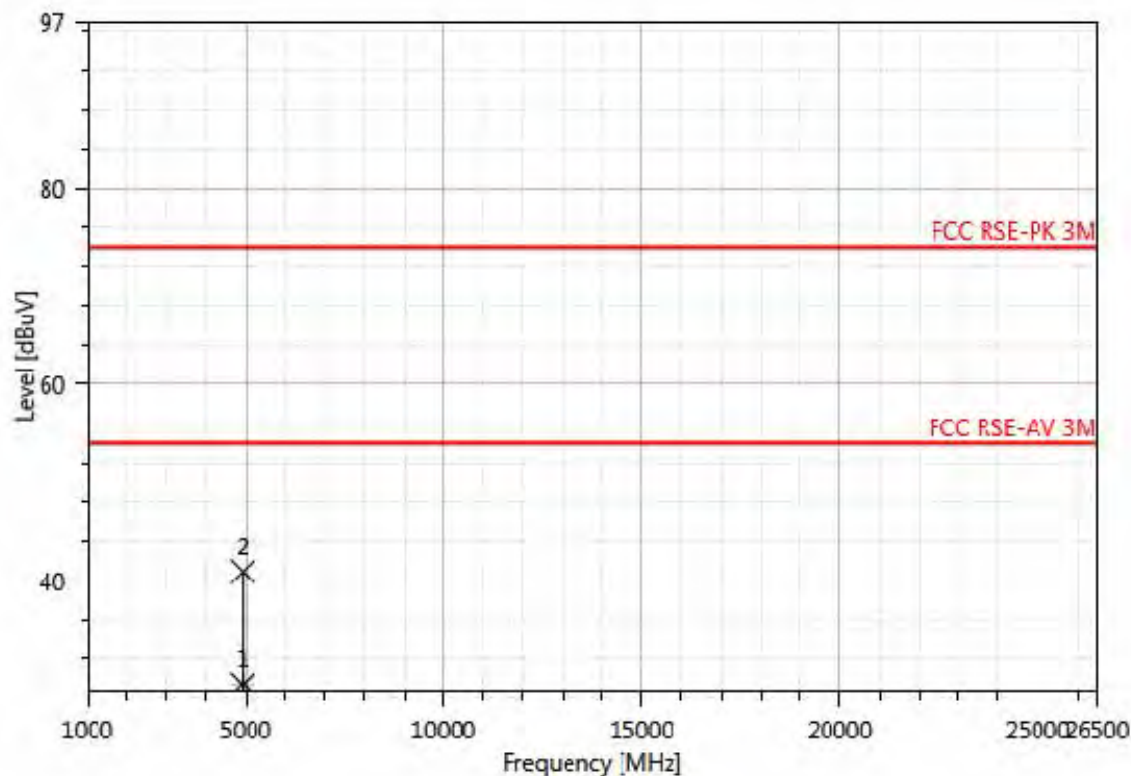
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Operation Mode :	802.11n20	Test Date :	05/05/2016 11:25:01
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4924.00	H	Average	29.38	24.13	5.25	54.00	-24.62
4924.00	H	Peak	40.90	35.65	5.25	74.00	-33.10

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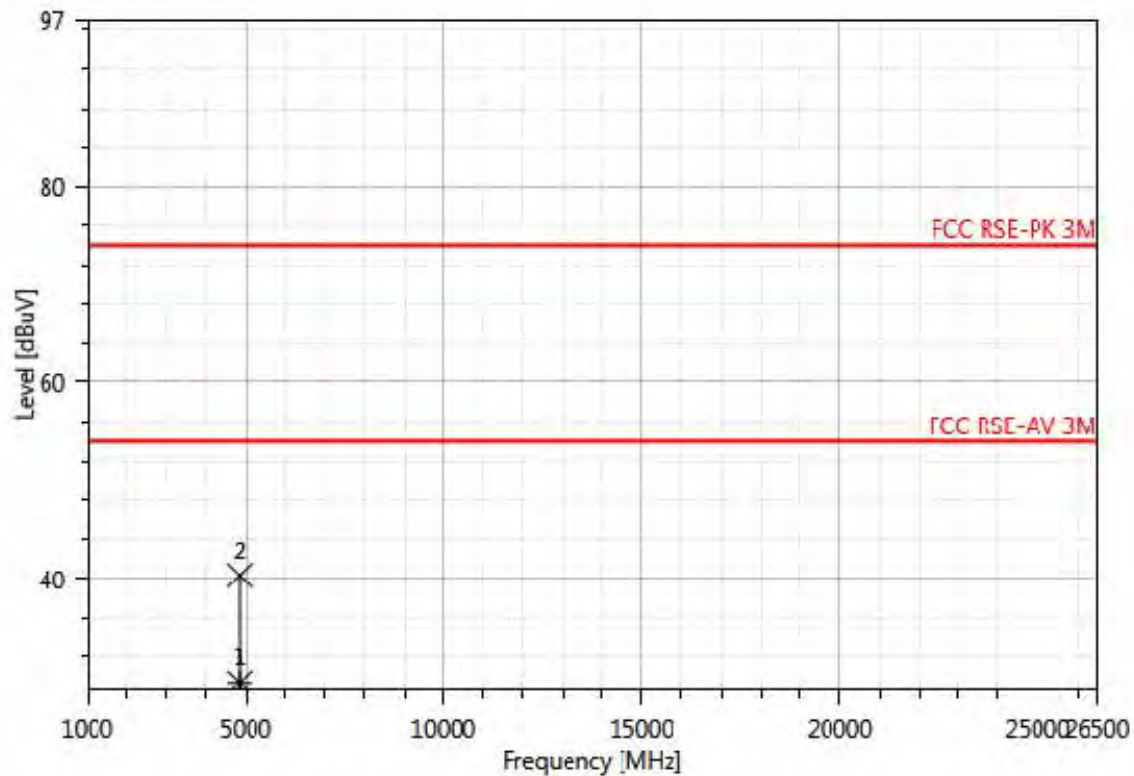
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Radiated Spurious Emission Measurement Result (802.11_HT40)

Operation Mode :	802.11n40	Test Date :	05/05/2016 11:31:01
Fundamental Frequency :	2422 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	QP/AV/PK	Reading Level	FS	dB	@3m dBuV/m	dB
4844.00	H	Average	29.39	24.42	4.97	54.00	-24.61
4844.00	H	Peak	40.32	35.35	4.97	74.00	-33.68

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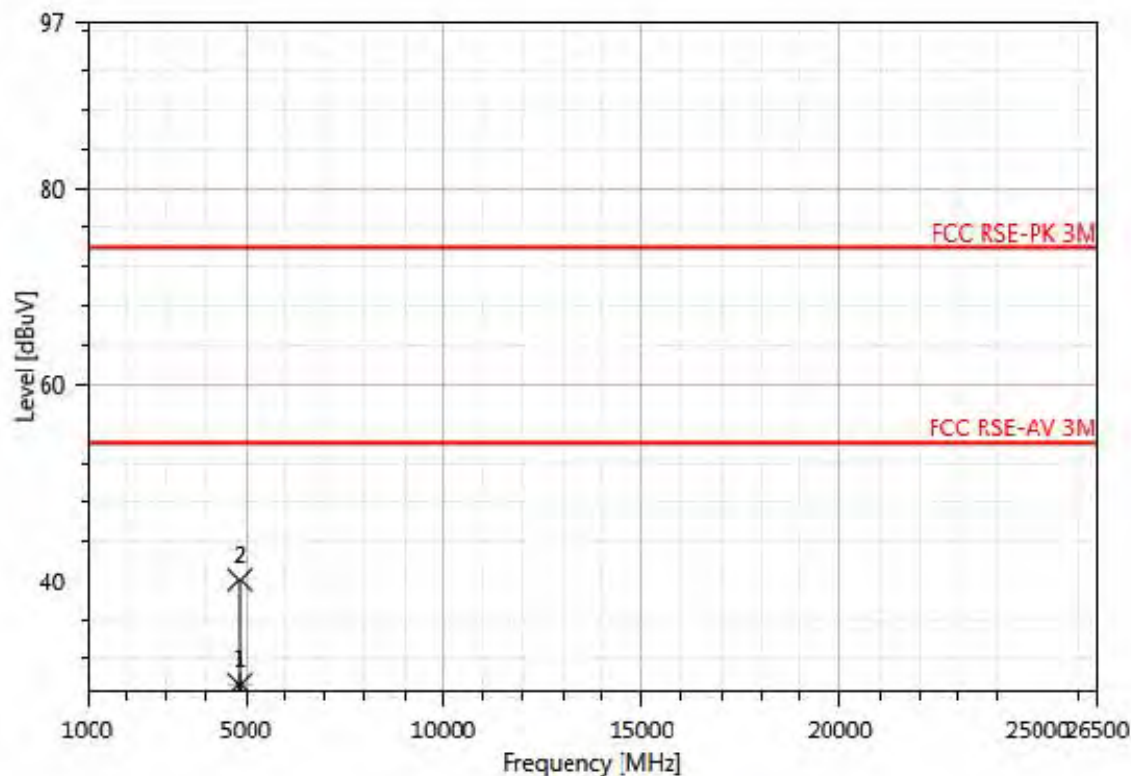
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Operation Mode : 802.11n40
 Fundamental Frequency : 2422 MHz
 Operation Band : Tx CH LOW
 EUT Pol. : E1 Plane

Test Date : 05/05/2016 11:31:25
 Temp. / Humi. : 21 deg_C / 62 RH
 Test Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4844.00	H	Average	29.40	24.43	4.97	54.00	-24.60
4844.00	H	Peak	40.06	35.09	4.97	74.00	-33.94

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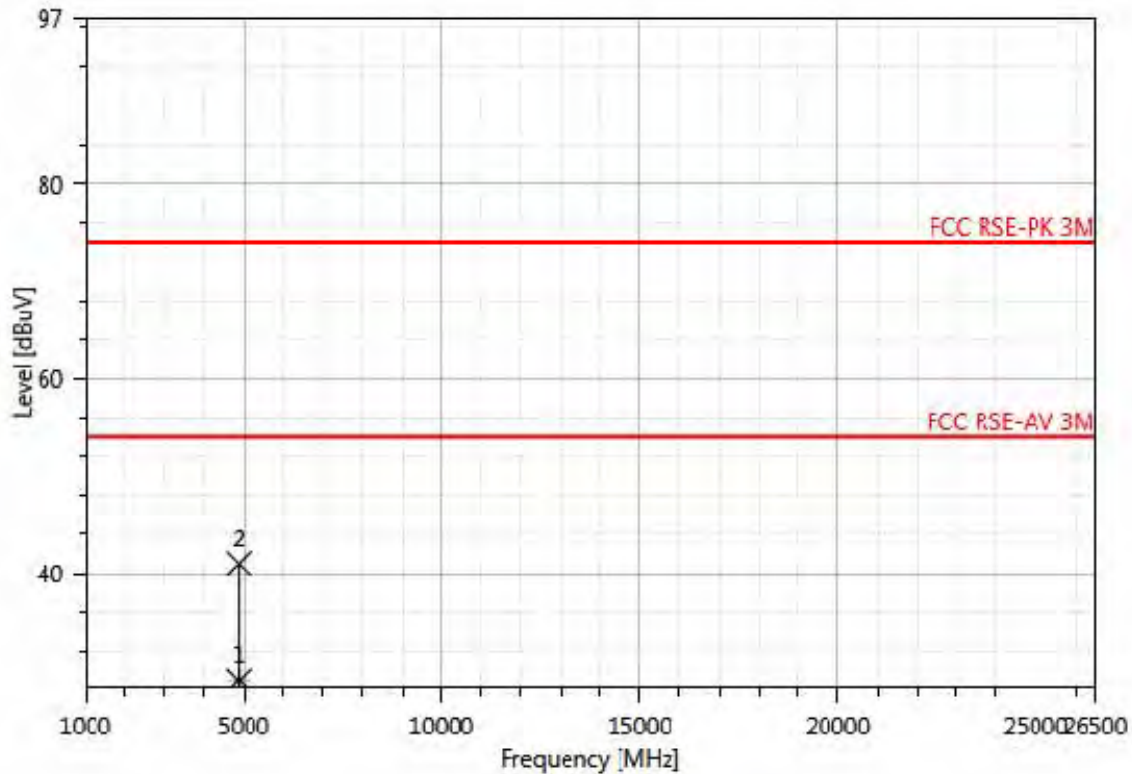
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Operation Mode :	802.11n40	Test Date :	05/05/2016 11:37:11
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4874.00	H	Average	29.04	23.91	5.13	54.00	-24.96
4874.00	H	Peak	41.05	35.92	5.13	74.00	-32.95

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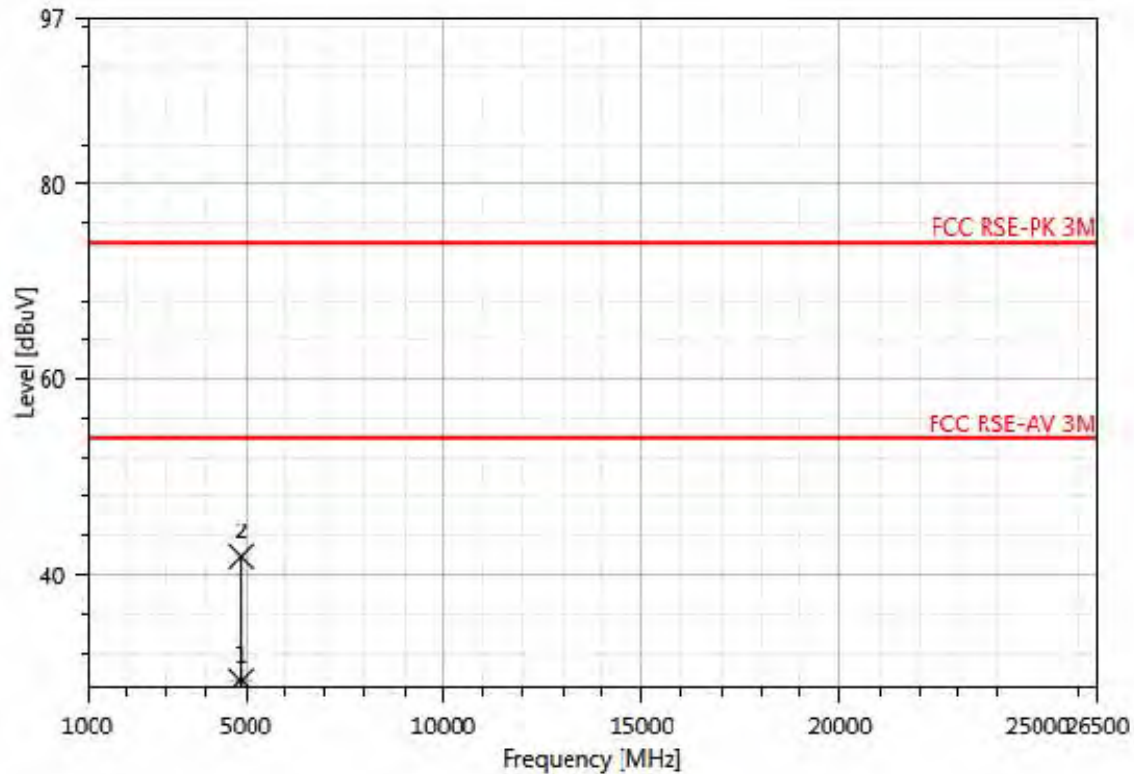
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Operation Mode :	802.11n40	Test Date :	05/05/2016 11:37:35
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4874.00	H	Average	29.19	24.06	5.13	54.00	-24.81
4874.00	H	Peak	41.89	36.76	5.13	74.00	-32.11

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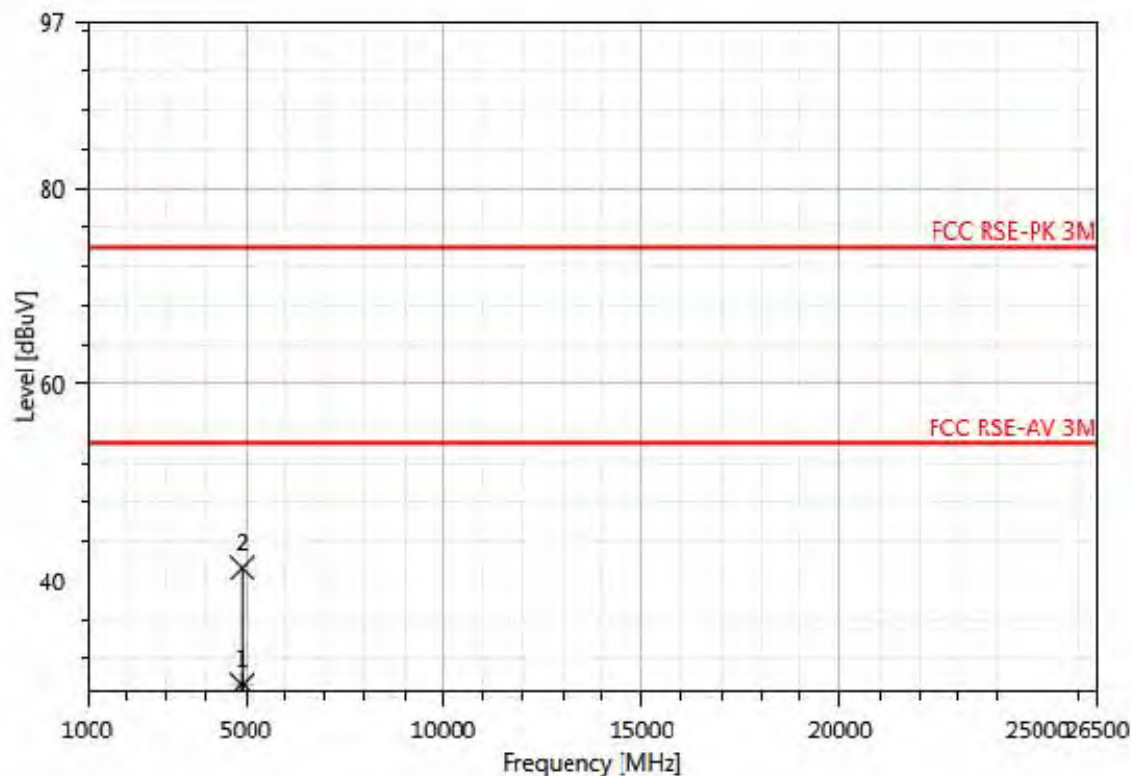
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Operation Mode :	802.11n40	Test Date :	05/05/2016 11:43:31
Fundamental Frequency :	2452 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4904.00	H	Average	29.39	24.16	5.23	54.00	-24.61
4904.00	H	Peak	41.32	36.08	5.23	74.00	-32.68

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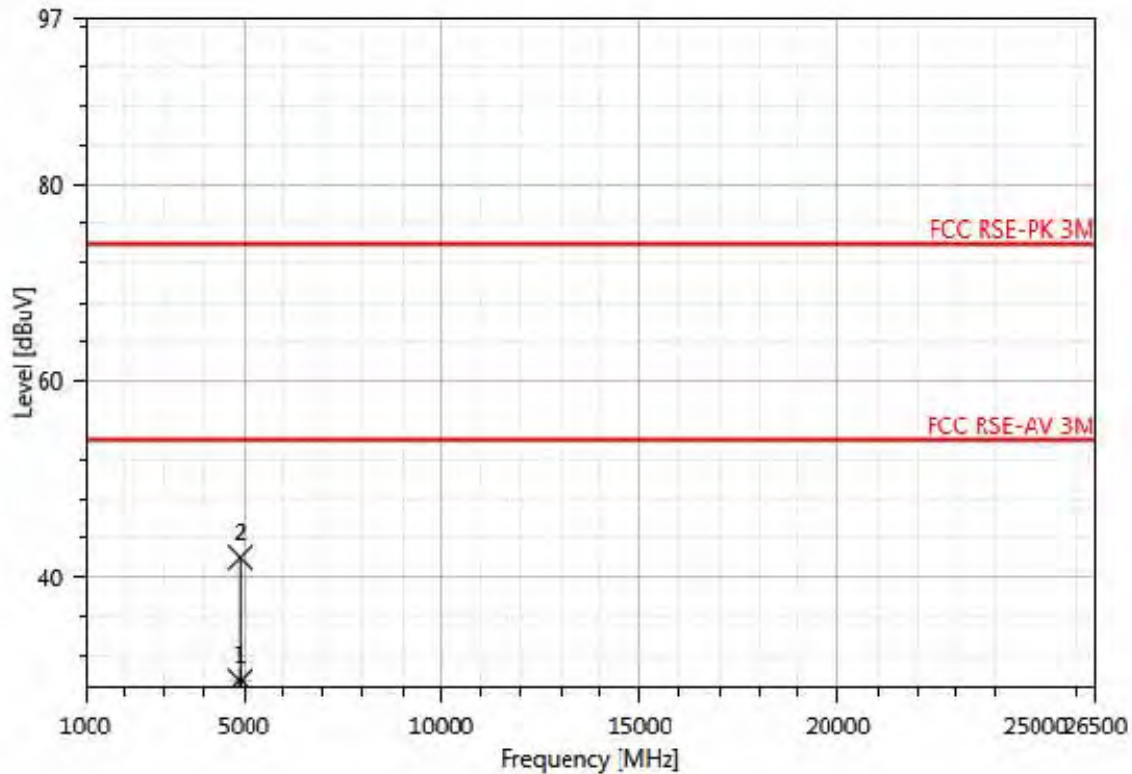
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Operation Mode :	802.11n40	Test Date :	05/05/2016 11:44:19
Fundamental Frequency :	2452 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4904.00	H	Average	29.51	24.28	5.23	54.00	-24.49
4904.00	H	Peak	42.05	36.82	5.23	74.00	-31.95

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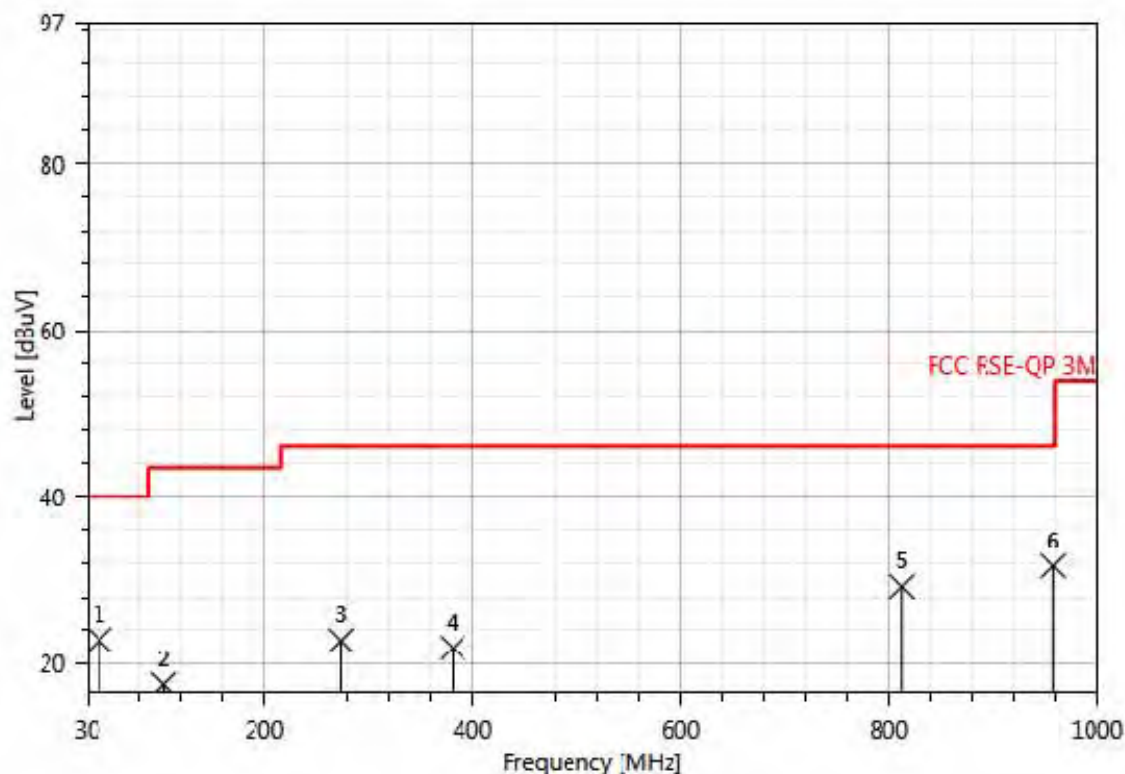
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Below 1GHz Worst-Case Data:

Radiated Spurious Emission Measurement Result (802.11 g) * Wireless Charging Mode

Operation Mode :	802.11g	Test Date :	05/20/2016 15:43:37
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 dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
41.64	S	Peak	22.87	31.25	-8.38	40.00	-17.13
103.72	S	Peak	17.56	29.66	-12.10	43.50	-25.94
273.47	S	Peak	22.77	29.49	-6.72	46.00	-23.23
381.14	S	Peak	21.92	26.32	-4.41	46.00	-24.08
812.79	S	Peak	29.29	25.94	3.35	46.00	-16.71
958.29	S	Peak	31.74	26.12	5.62	46.00	-14.26

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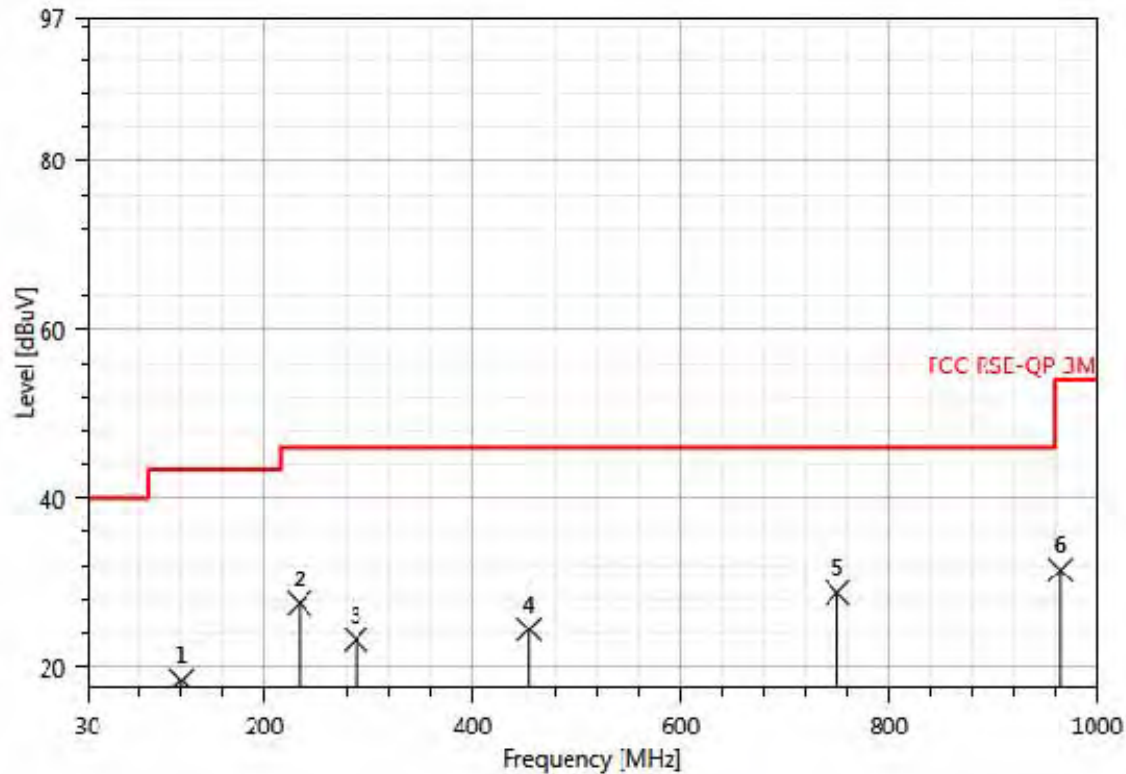
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Operation Mode :	802.11g	Test Date :	05/20/2016 15:43:47
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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
120.21	S	Peak	18.37	28.82	-10.45	43.50	-25.13
233.70	S	Peak	27.54	36.14	-8.60	46.00	-18.46
288.02	S	Peak	23.16	29.30	-6.14	46.00	-22.84
454.86	S	Peak	24.43	27.07	-2.65	46.00	-21.57
750.71	S	Peak	28.75	26.00	2.76	46.00	-17.25
965.08	S	Peak	31.47	25.52	5.95	54.00	-22.53

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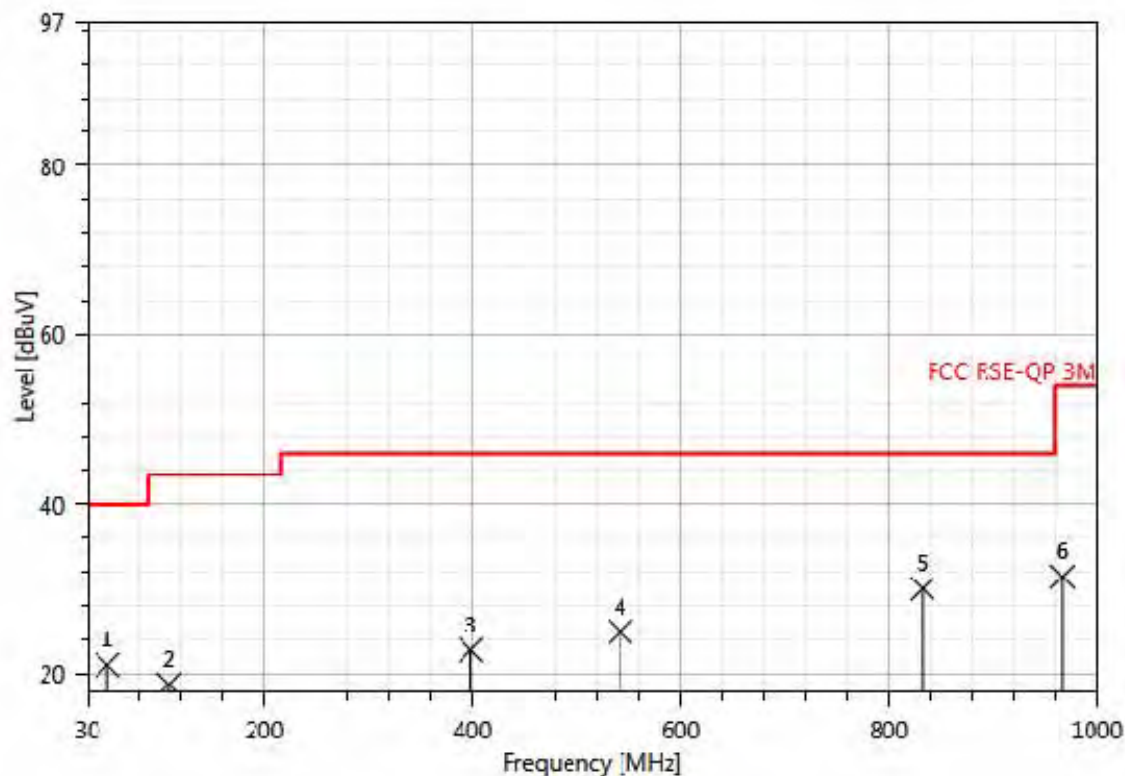
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Operation Mode :	802.11g	Test Date :	05/20/2016 15:43:57
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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
49.40	S	Peak	21.04	28.78	-7.74	40.00	-18.96
108.57	S	Peak	18.72	30.11	-11.39	43.50	-24.78
398.60	S	Peak	22.78	26.75	-3.97	46.00	-23.22
542.16	S	Peak	24.95	26.70	-1.75	46.00	-21.05
832.19	S	Peak	30.01	26.57	3.44	46.00	-15.99
967.02	S	Peak	31.43	25.44	5.99	54.00	-22.57

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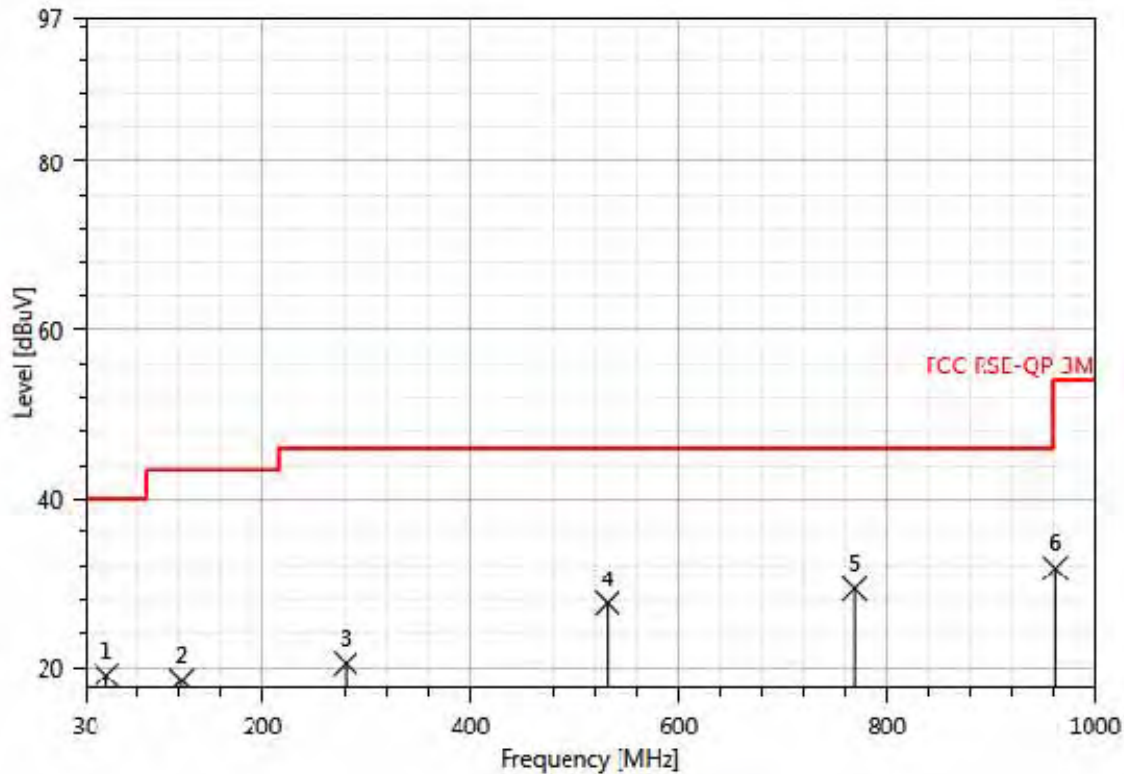
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Operation Mode :	802.11g	Test Date :	05/20/2016 15:44:10
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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
50.37	S	Peak	19.07	26.78	-7.71	40.00	-20.93
122.15	S	Peak	18.48	28.73	-10.25	43.50	-25.02
280.26	S	Peak	20.51	26.86	-6.35	46.00	-25.49
531.49	S	Peak	27.65	29.22	-1.57	46.00	-18.35
769.14	S	Peak	29.34	26.57	2.77	46.00	-16.66
962.17	S	Peak	31.78	25.76	6.02	54.00	-22.22

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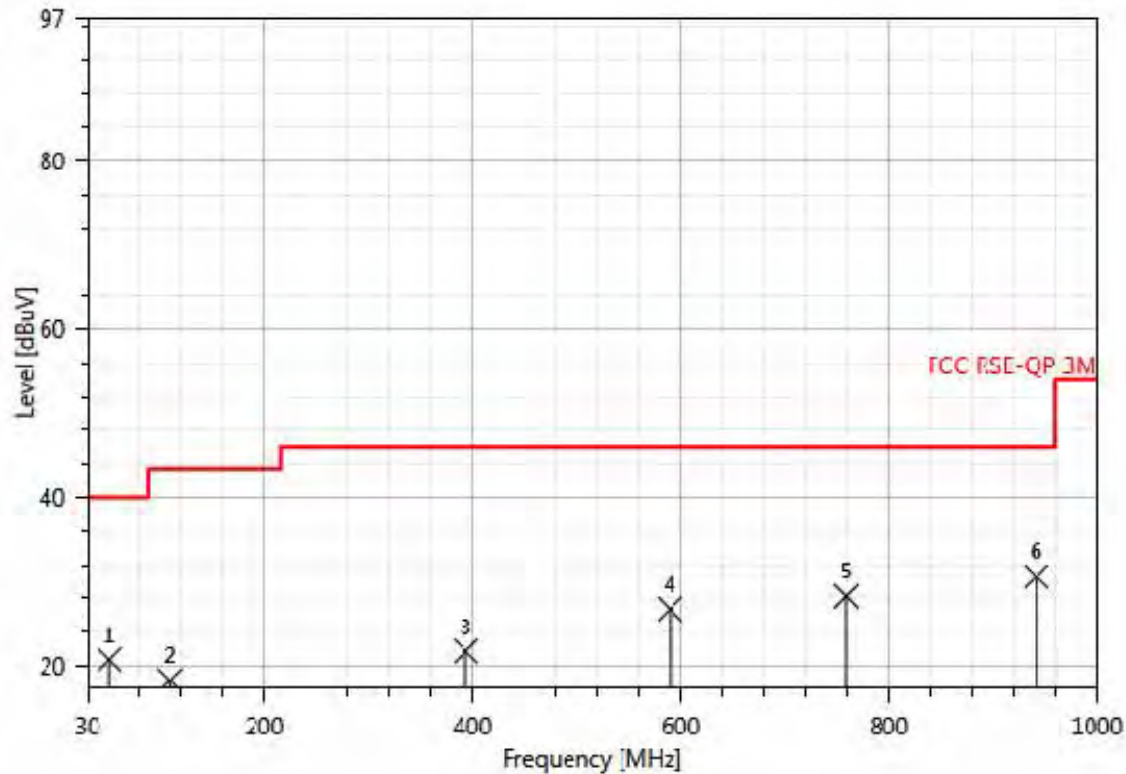
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Operation Mode :	802.11g	Test Date :	05/20/2016 15:44:22
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
51.34	S	Peak	20.77	28.51	-7.74	40.00	-19.23
109.54	S	Peak	18.29	29.54	-11.25	43.50	-25.21
393.75	S	Peak	21.77	25.95	-4.18	46.00	-24.23
589.69	S	Peak	26.76	26.97	-0.21	46.00	-19.24
759.44	S	Peak	28.26	25.25	3.01	46.00	-17.74
941.80	S	Peak	30.62	25.33	5.29	46.00	-15.38

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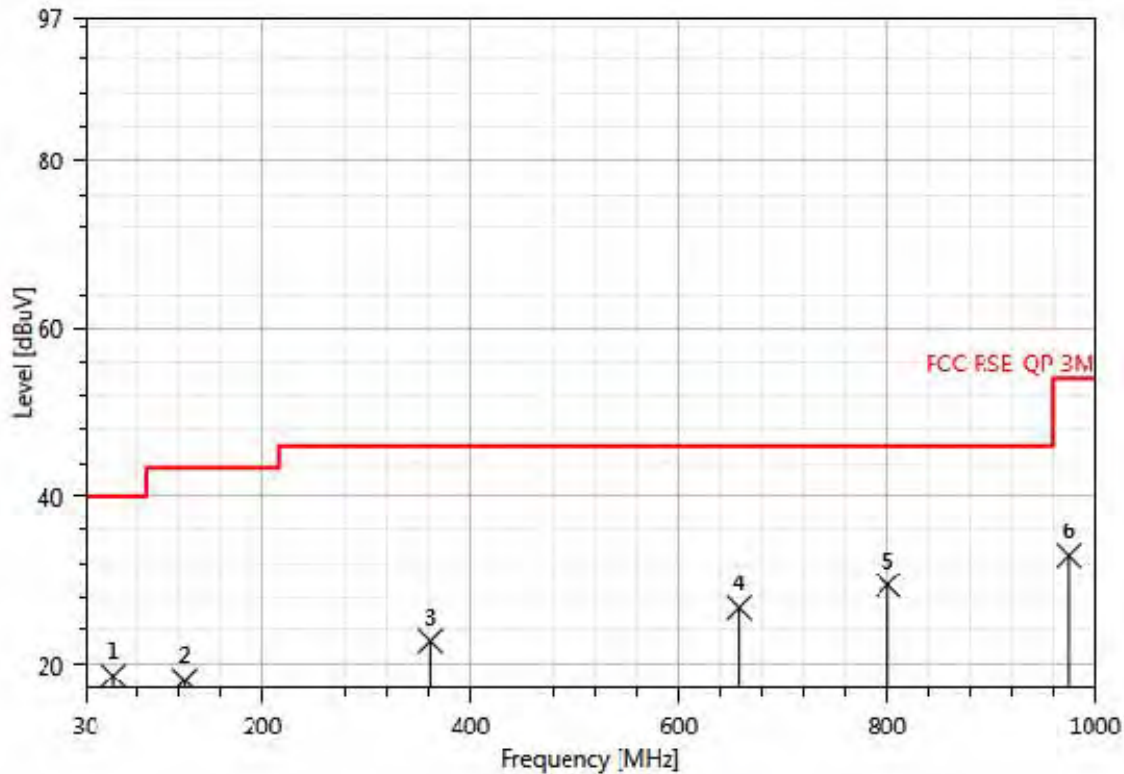
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Operation Mode :	802.11g	Test Date :	05/20/2016 15:44:34
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
57.16	S	Peak	18.63	26.60	-7.97	40.00	-21.37
125.06	S	Peak	18.09	28.07	-9.98	43.50	-25.41
361.74	S	Peak	22.71	27.50	-4.80	46.00	-23.29
658.56	S	Peak	26.77	26.36	0.41	46.00	-19.23
801.15	S	Peak	29.44	26.33	3.11	46.00	-16.56
974.78	S	Peak	32.96	26.80	6.16	54.00	-21.04

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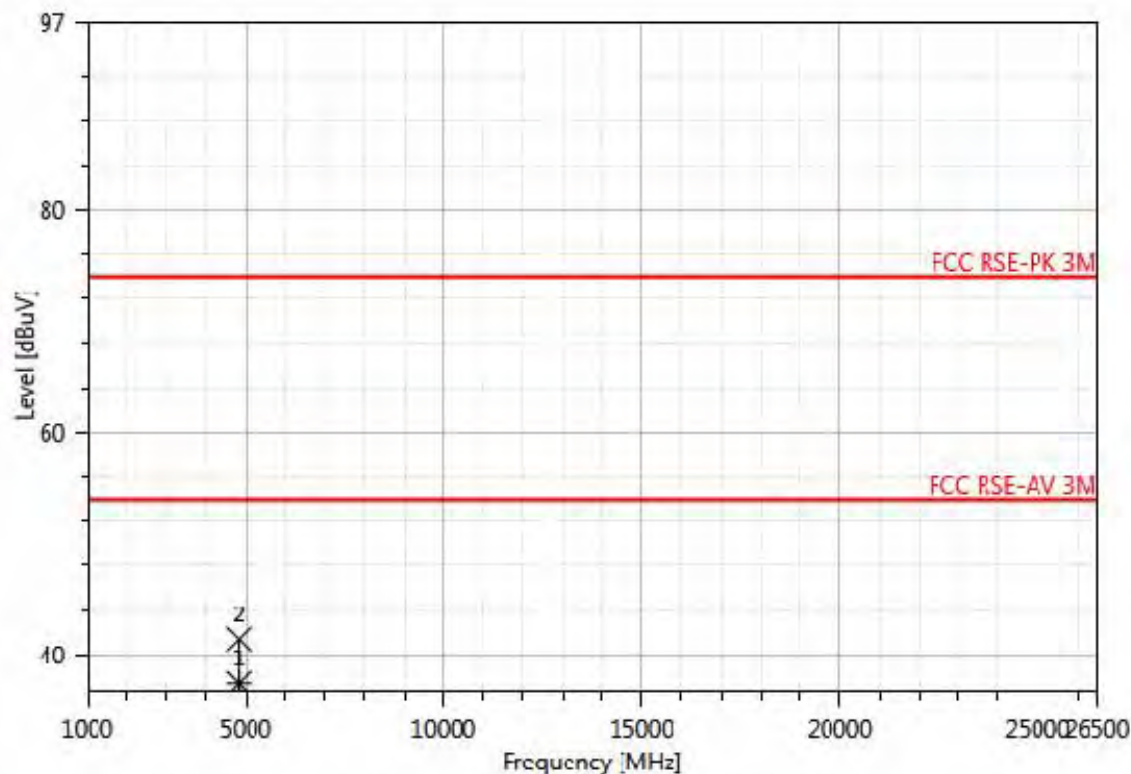
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Above 1GHz Data: * Wireless Charging Mode

Radiated Spurious Emission Measurement Result (802.11 b)

Operation Mode :	802.11b	Test Date :	05/20/2016 15:45:41
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	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
4824.00	H	Average	37.40	32.46	4.94	54.00	-16.60
4824.00	H	Peak	41.40	36.46	4.94	74.00	-32.60

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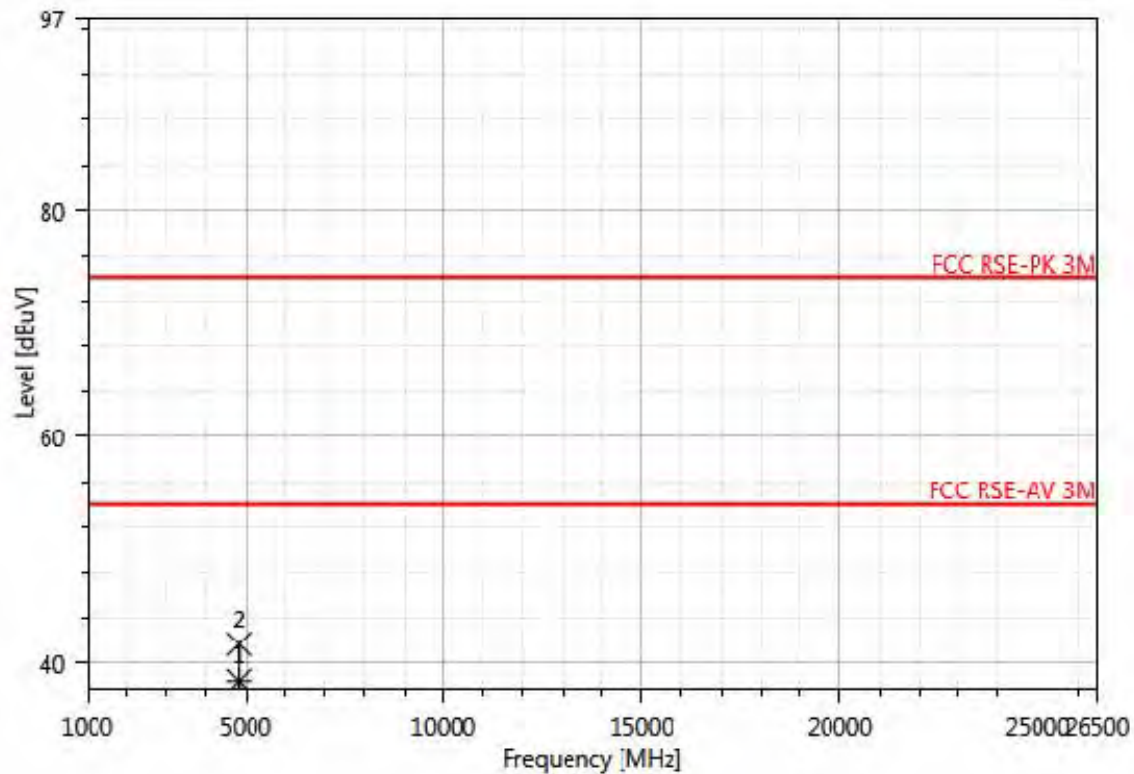
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Operation Mode :	802.11b	Test Date :	05/20/2016 15:45:56
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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	38.38	33.44	4.94	54.00	-15.62
4824.00	H	Peak	41.64	36.70	4.94	74.00	-32.36

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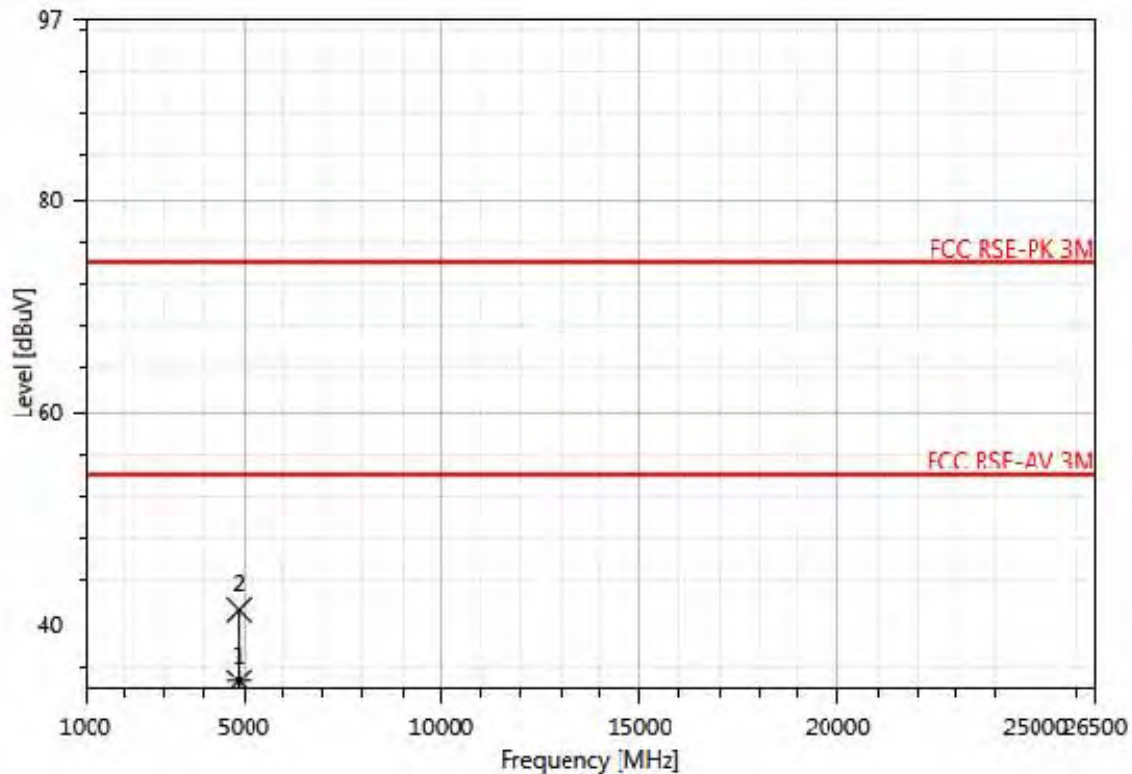
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Operation Mode :	802.11b	Test Date :	05/20/2016 15:46:06
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBuV/m	dBuV/m		dBuV/m	
4874.00	H	Average	34.60	29.47	5.13	54.00	-19.40
4874.00	H	Peak	41.35	36.22	5.13	74.00	-32.65

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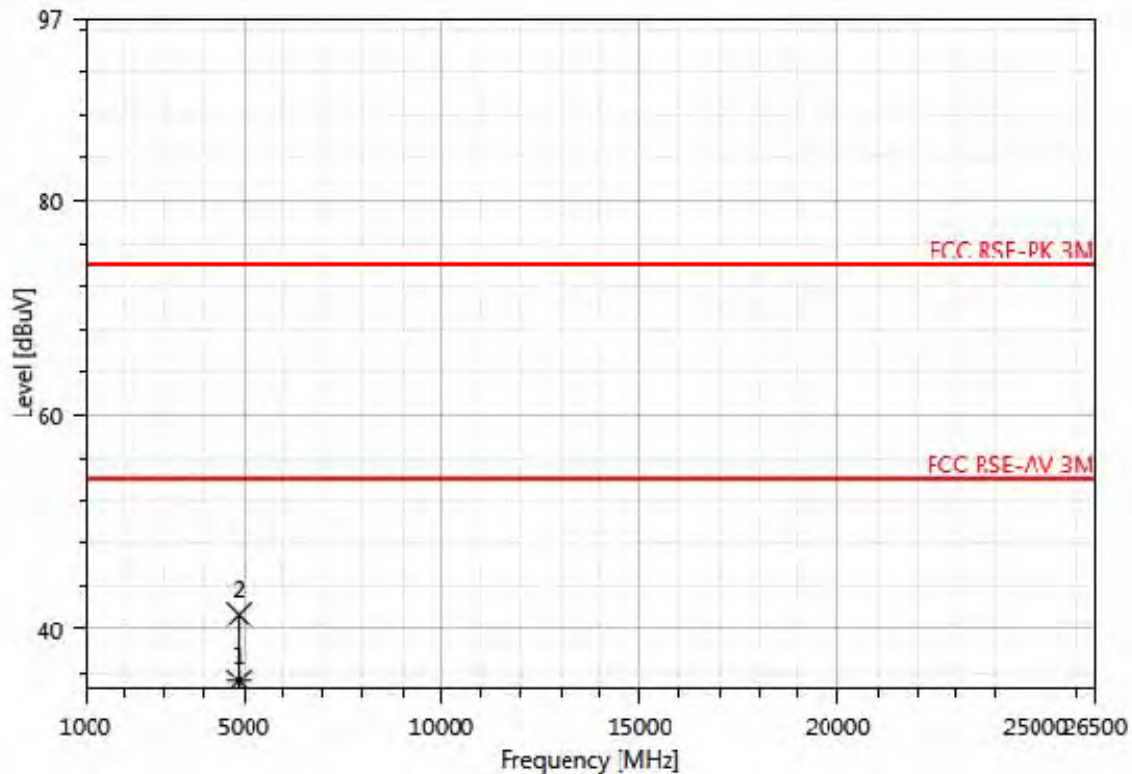
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Operation Mode : 802.11b Test Date : 05/20/2016 15:46:20
Fundamental Frequency : 2437 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH MID Test Engineer : Edward
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



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	35.14	30.01	5.13	54.00	-18.86
4874.00	H	Peak	41.40	36.26	5.13	74.00	-32.60

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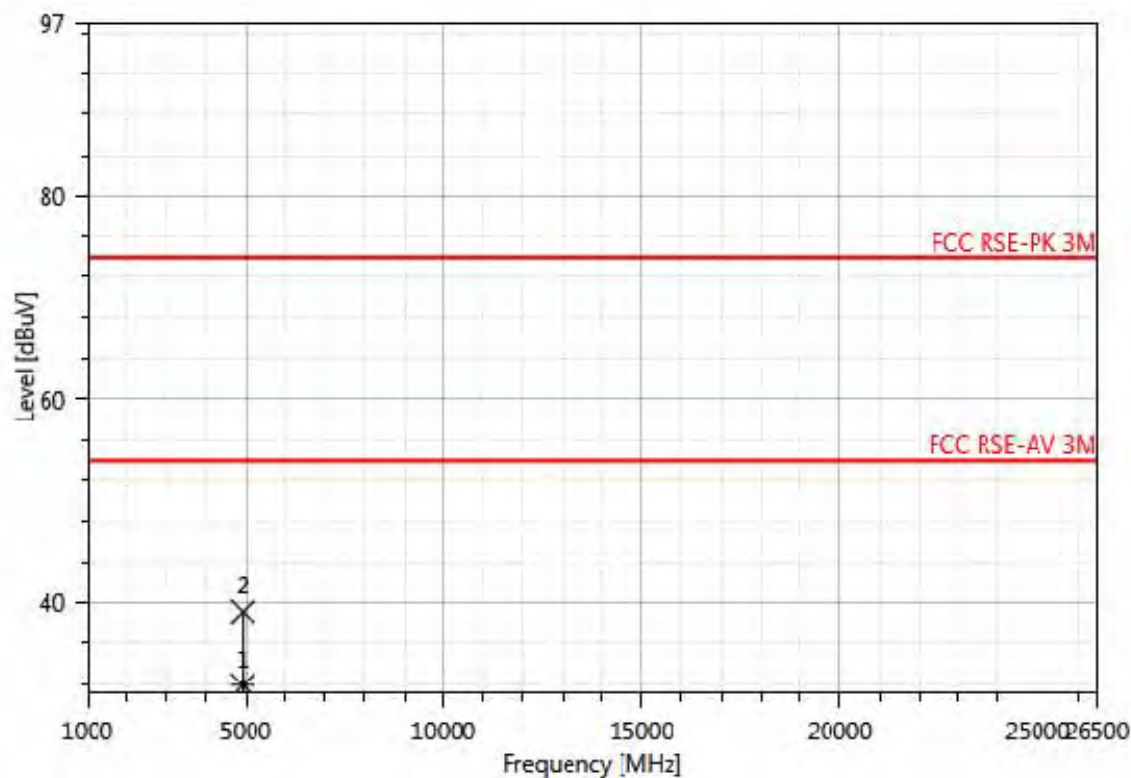
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Operation Mode :	802.11b	Test Date :	05/20/2016 15:46:33
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
4924.00	H	Average	31.87	26.62	5.25	54.00	-22.13
4924.00	H	Peak	39.12	33.87	5.25	74.00	-34.88

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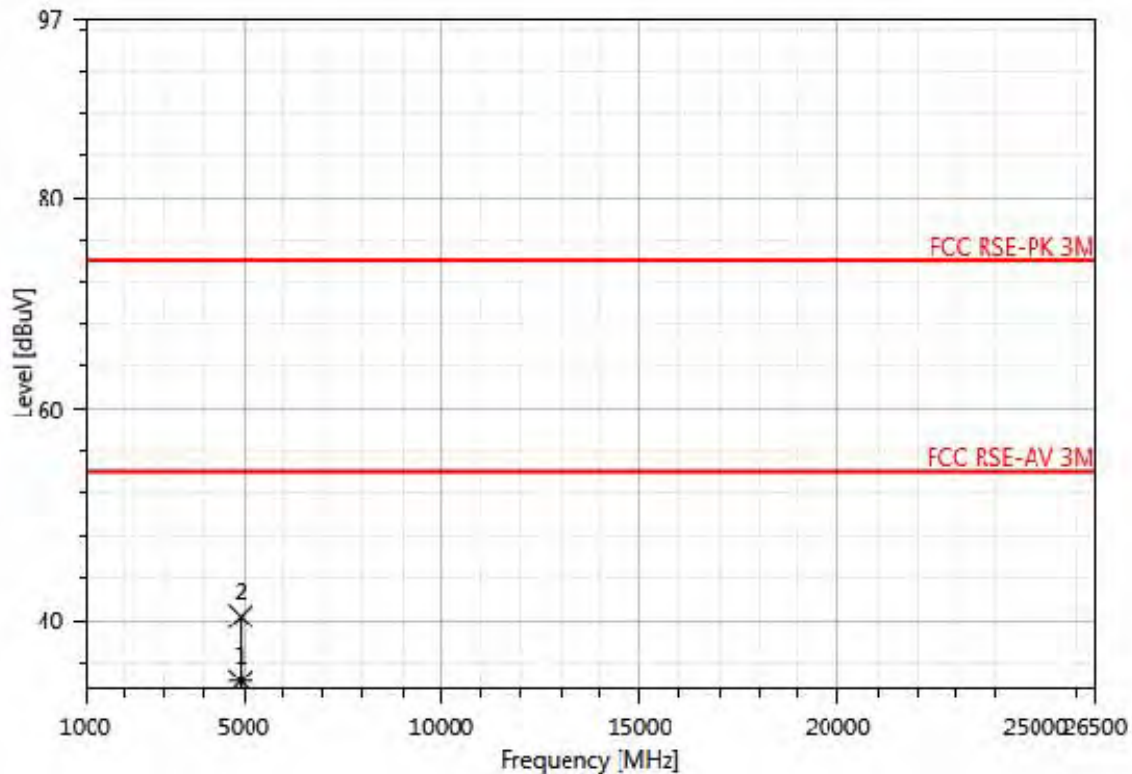
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Operation Mode : 802.11b Test Date : 05/20/2016 15:46:47
Fundamental Frequency : 2462 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH HIGH Test Engineer : Edward
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBuV/m	dBuV/m	dB	dBuV/m	dB
4924.00	H	Average	34.20	28.95	5.25	54.00	-19.80
4924.00	H	Peak	40.36	35.11	5.25	74.00	-33.64

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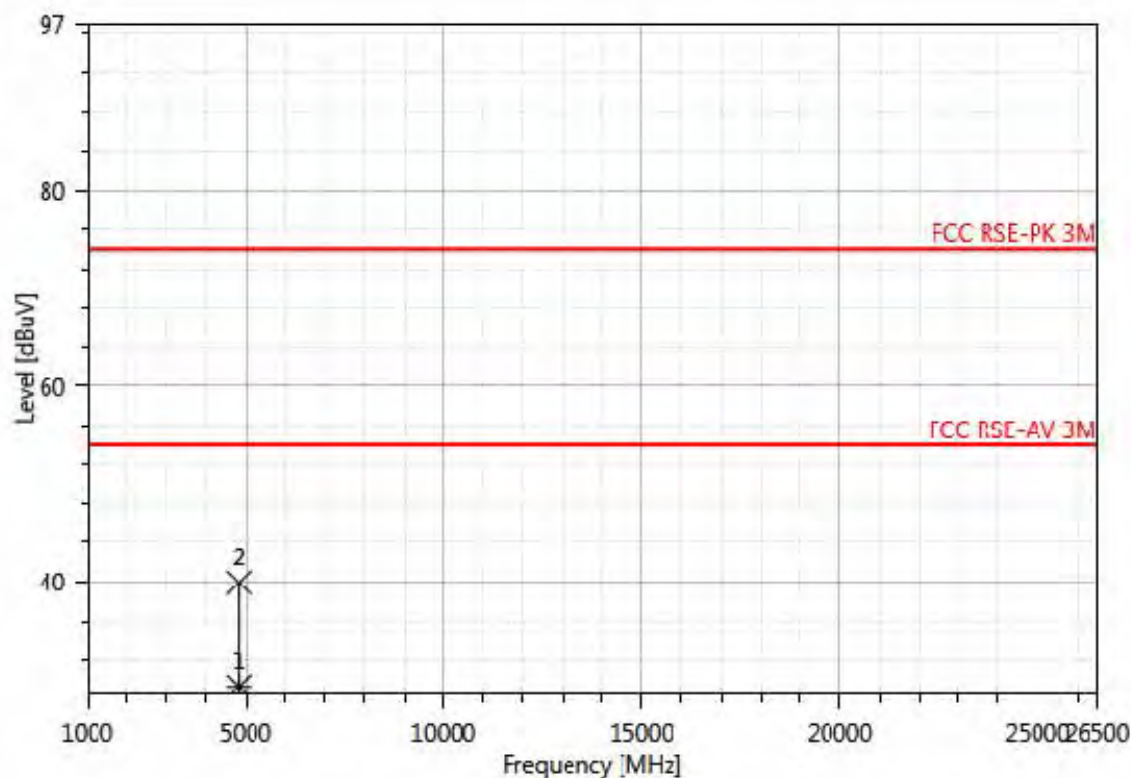
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Radiated Spurious Emission Measurement Result (802.11 g)

Operation Mode :	802.11g	Test Date :	05/20/2016 15:47:04
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	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@ 3m	
		QP/AV/PK	dBuV/m	dBuV/m	dB	dBuV/m	dB
4824.00	H	Average	29.32	24.38	4.94	54.00	-24.68
4824.00	H	Peak	39.94	35.00	4.94	74.00	-34.06

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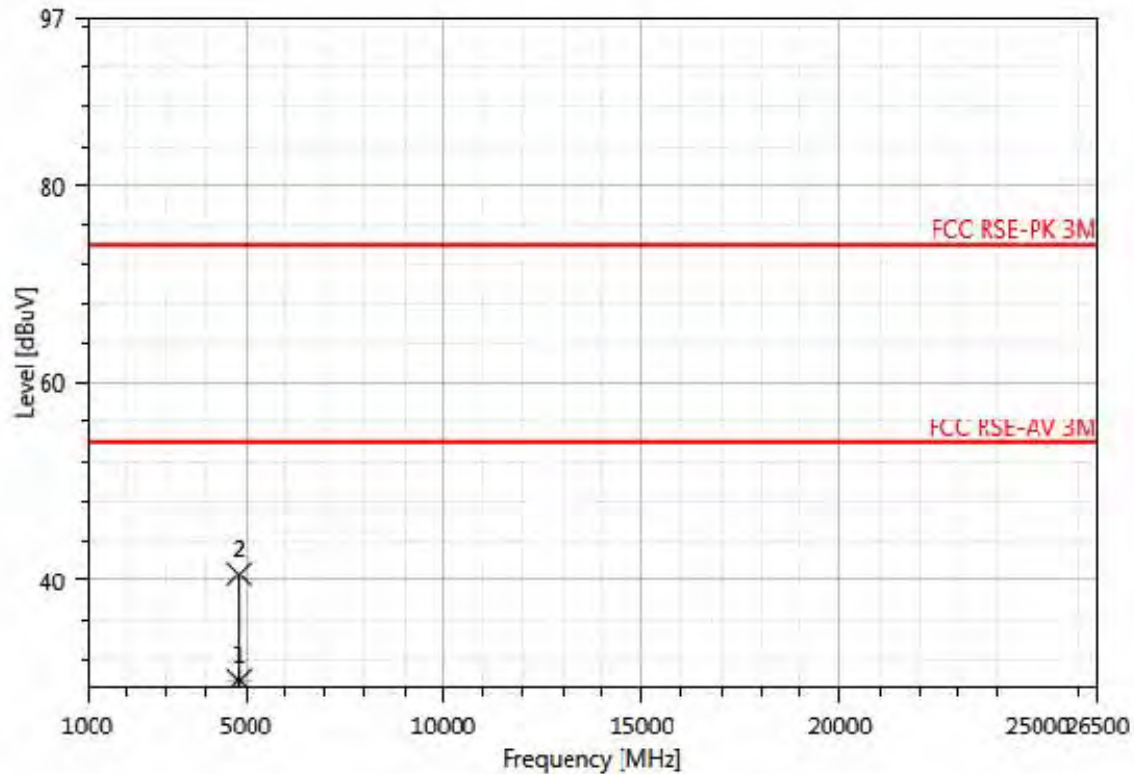
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Operation Mode :	802.11g	Test Date :	05/20/2016 15:47:17
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4824.00	H	Average	29.85	24.91	4.94	54.00	-24.15
4824.00	H	Peak	40.62	35.68	4.94	74.00	-33.38

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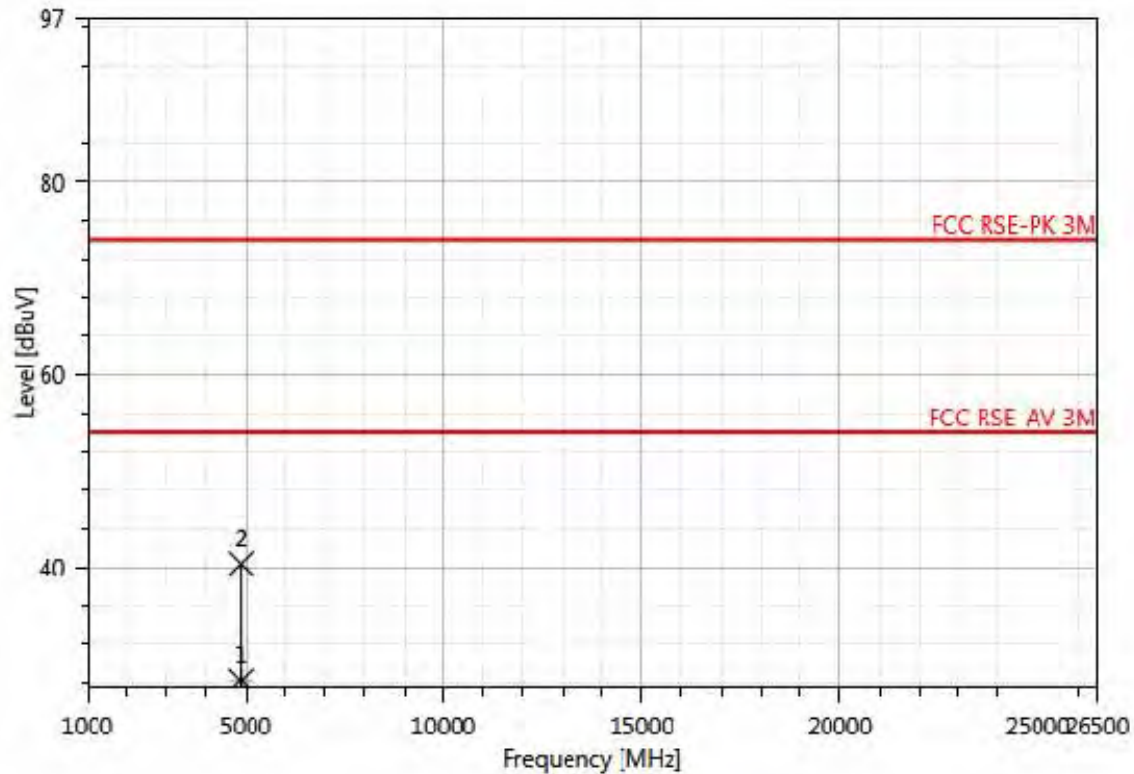
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Operation Mode :	802.11g	Test Date :	05/20/2016 15:47:28
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4874.00	H	Average	28.30	23.17	5.13	54.00	-25.70
4874.00	H	Peak	40.42	35.28	5.13	74.00	-33.58

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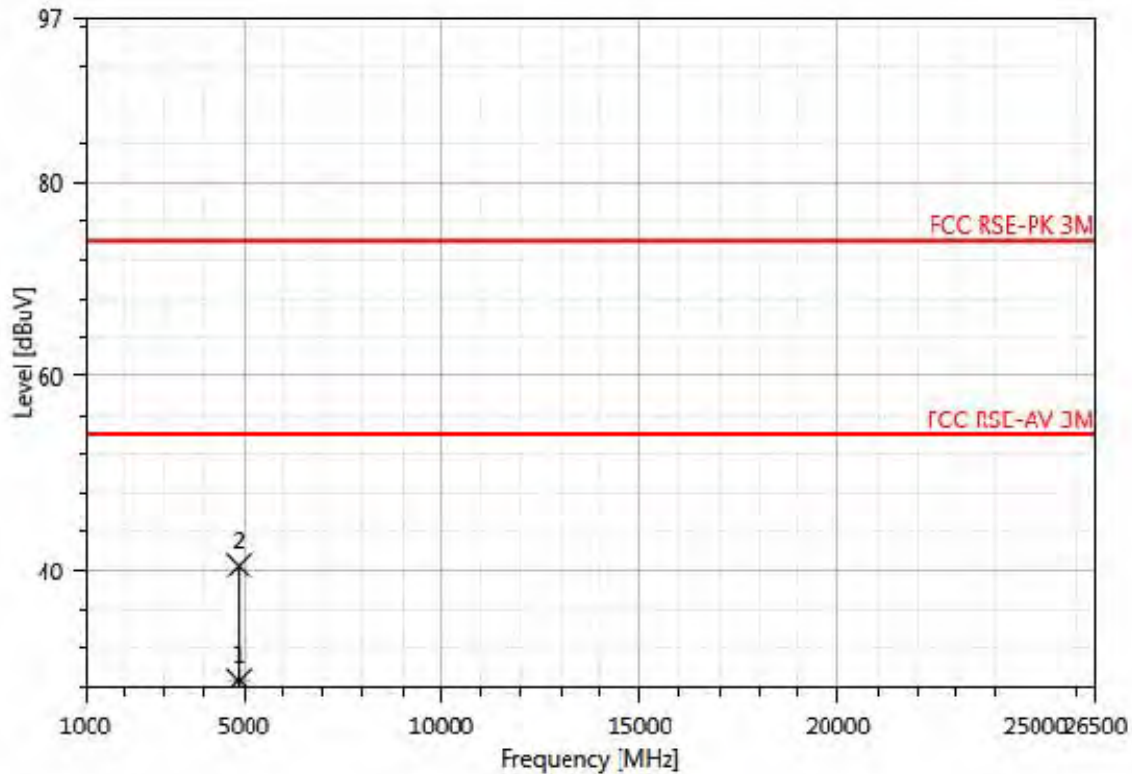
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Operation Mode :	802.11g	Test Date :	05/20/2016 15:47:39
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBuV/m	dBuV/m	dB	dBuV/m	dB
4874.00	H	Average	28.64	23.51	5.13	54.00	-25.36
4874.00	H	Peak	40.51	35.37	5.13	74.00	-33.49

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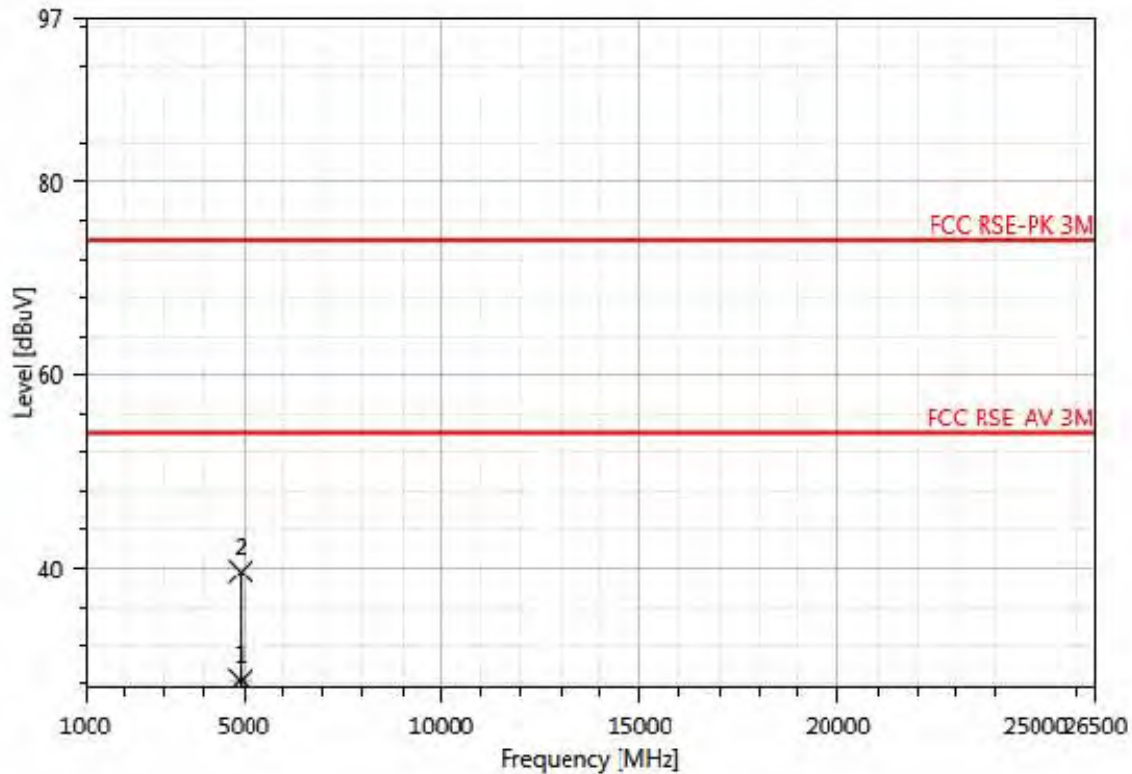
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Operation Mode :	802.11g	Test Date :	05/20/2016 15:47:53
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4924.00	H	Average	28.40	23.15	5.25	54.00	-25.60
4924.00	H	Peak	39.65	34.40	5.25	74.00	-34.35

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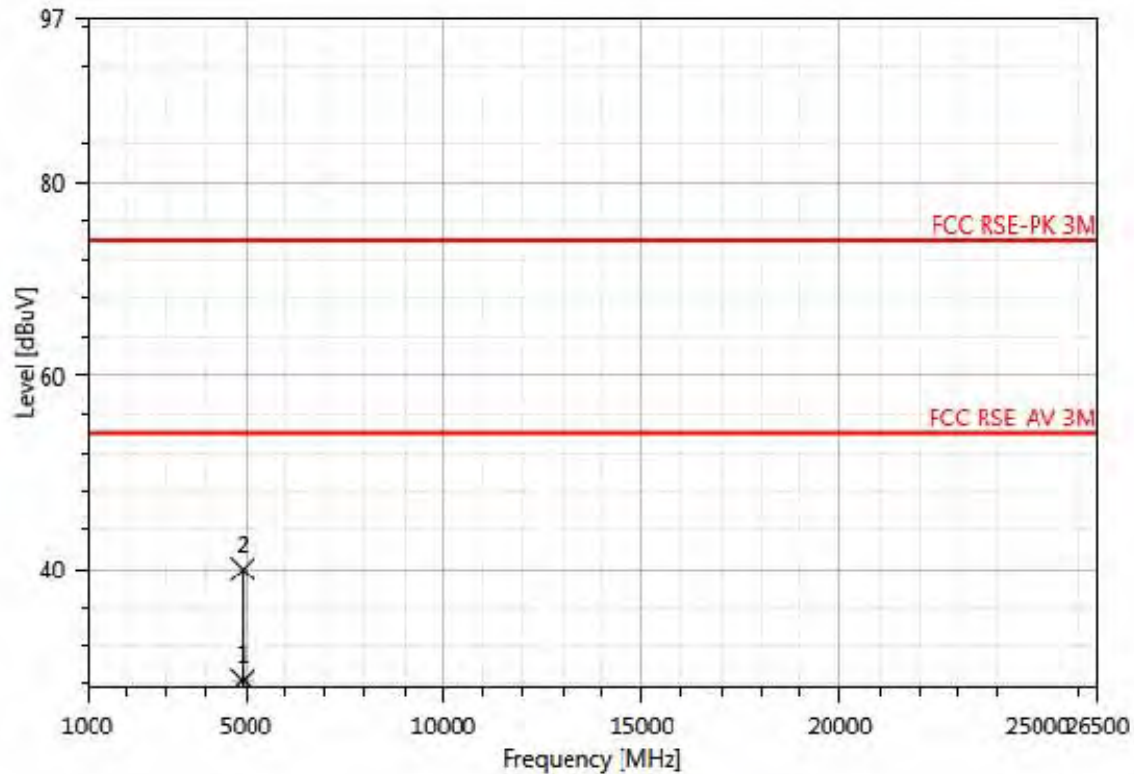
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Operation Mode :	802.11g	Test Date :	05/20/2016 15:48:09
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4924.00	H	Average	28.47	23.22	5.25	54.00	-25.53
4924.00	H	Peak	39.97	34.72	5.25	74.00	-34.03

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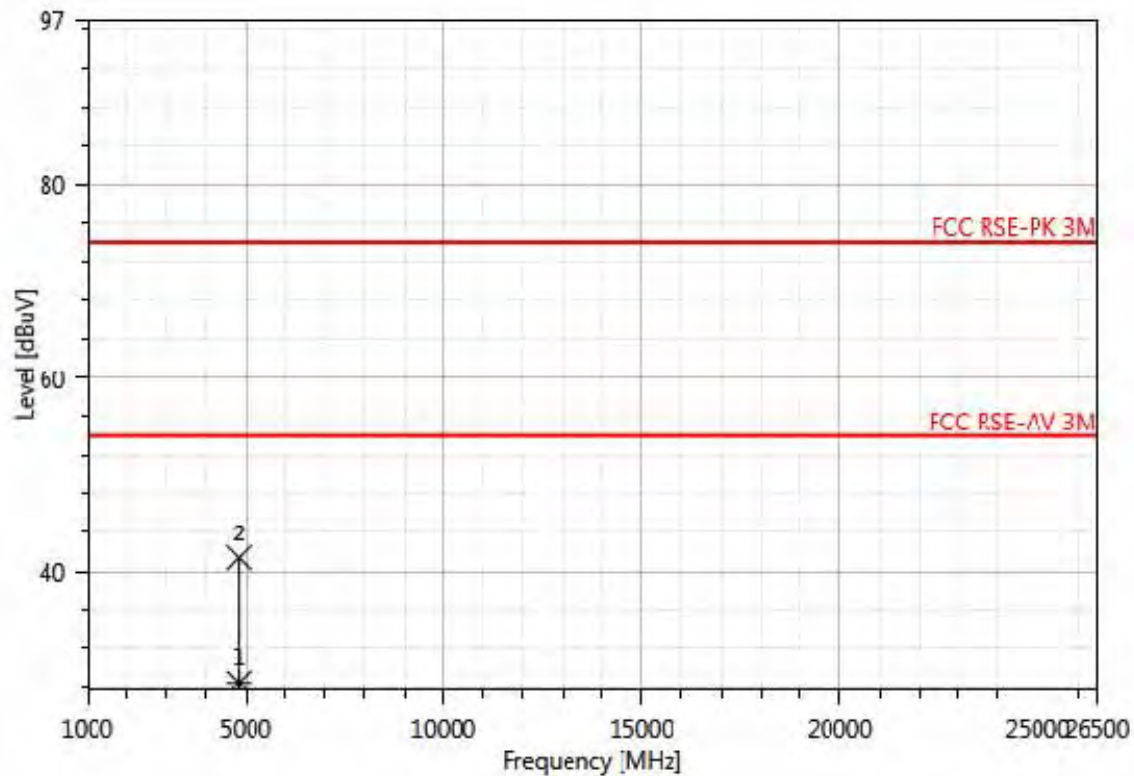
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Radiated Spurious Emission Measurement Result (802.11_HT20)

Operation Mode :	802.11n20	Test Date :	05/20/2016 15:48:19
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	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBuV/m	dBuV/m	dB	dBuV/m	dB
4824.00	H	Average	28.48	23.54	4.94	54.00	-25.52
4824.00	H	Peak	41.42	36.47	4.94	74.00	-32.58

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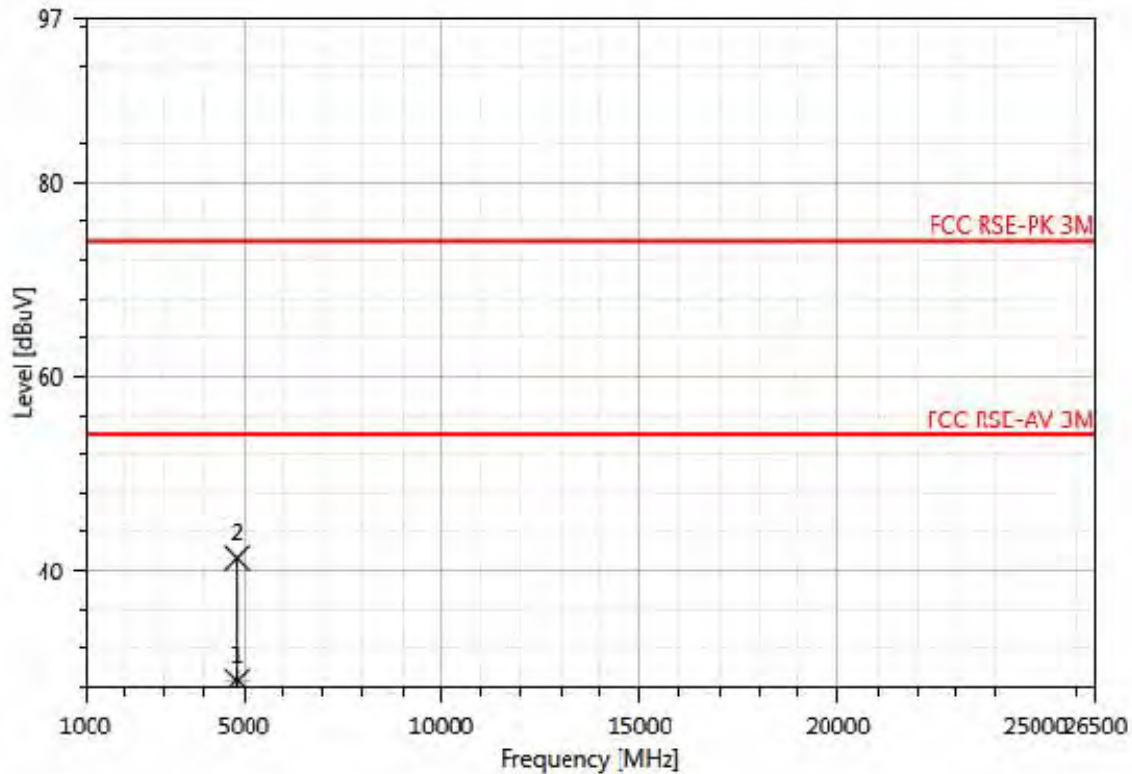
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Operation Mode :	802.11n20	Test Date :	05/20/2016 15:48:32
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4824.00	H	Average	28.65	23.71	4.94	54.00	-25.35
4824.00	H	Peak	41.30	36.36	4.94	74.00	-32.70

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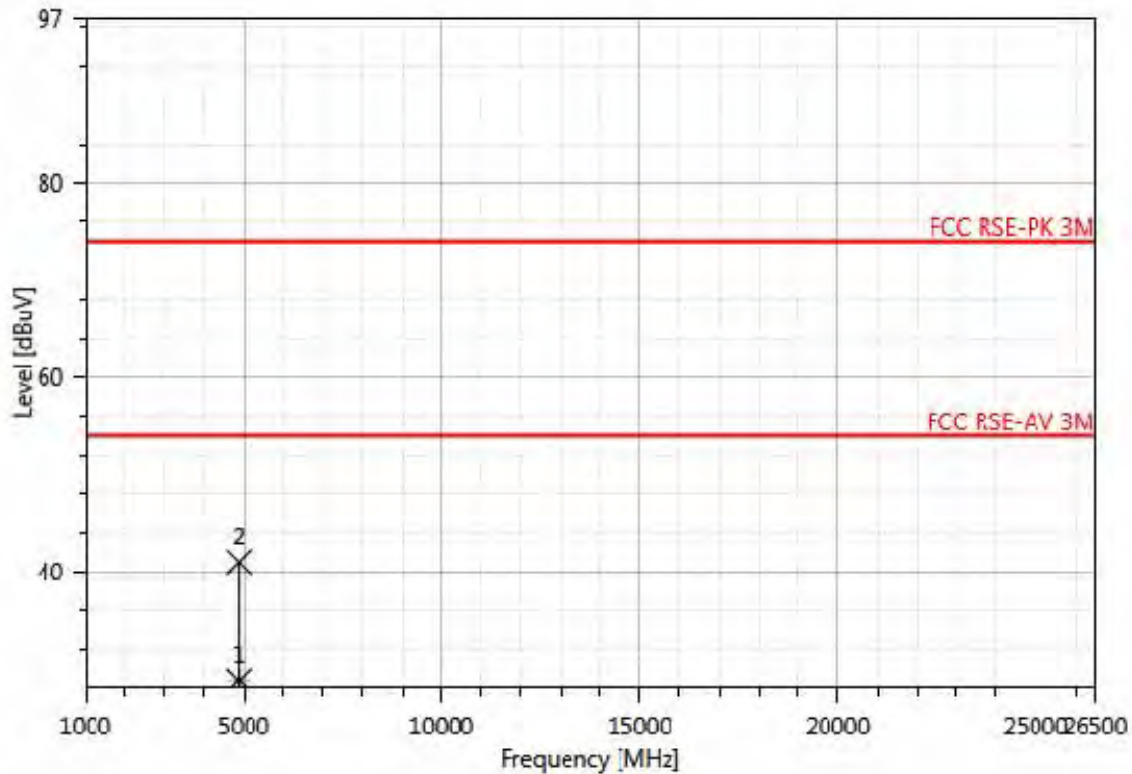
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Operation Mode :	802.11n20	Test Date :	05/20/2016 15:48:52
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4874.00	H	Average	28.83	23.70	5.13	54.00	-25.17
4874.00	H	Peak	41.03	35.90	5.13	74.00	-32.97

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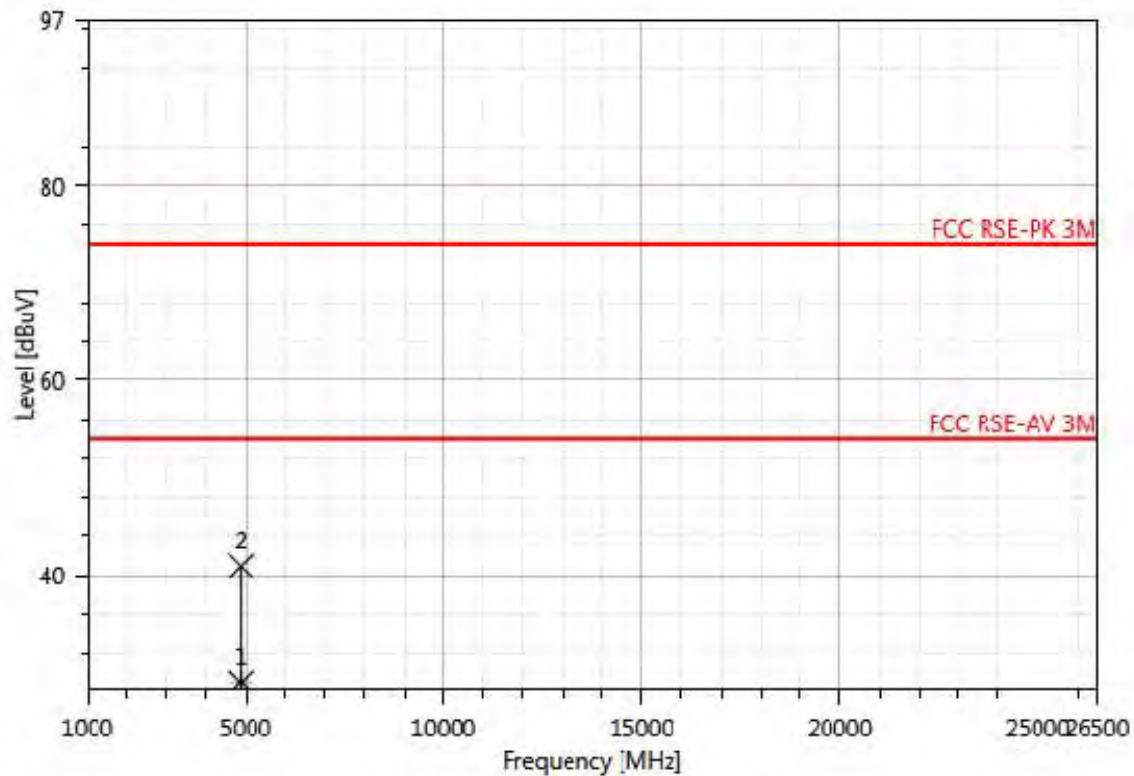
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Operation Mode :	802.11n20	Test Date :	05/20/2016 15:49:06
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4874.00	H	Average	29.02	23.89	5.13	54.00	-24.98
4874.00	H	Peak	40.98	35.85	5.13	74.00	-33.02

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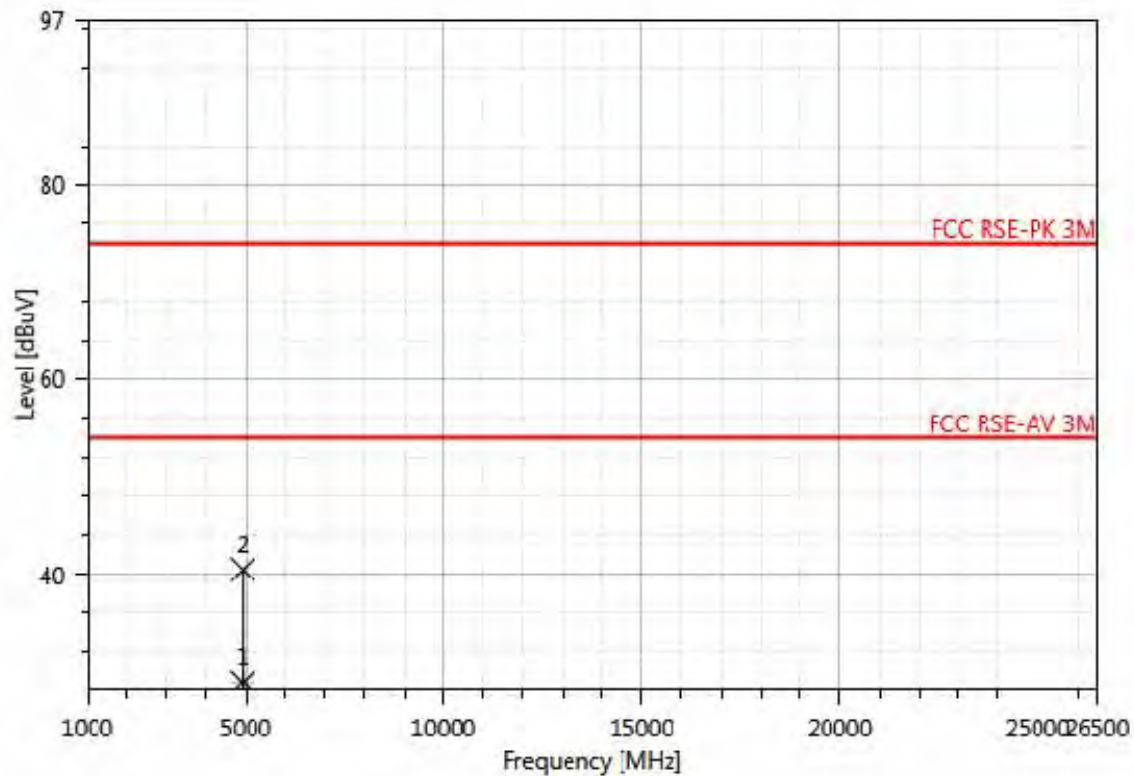
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Operation Mode :	802.11n20	Test Date :	05/20/2016 15:49:29
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBuV/m	dBuV/m	dB	dBuV/m	dB
4924.00	H	Average	28.84	23.59	5.25	54.00	-25.16
4924.00	H	Peak	40.45	35.20	5.25	74.00	-33.55

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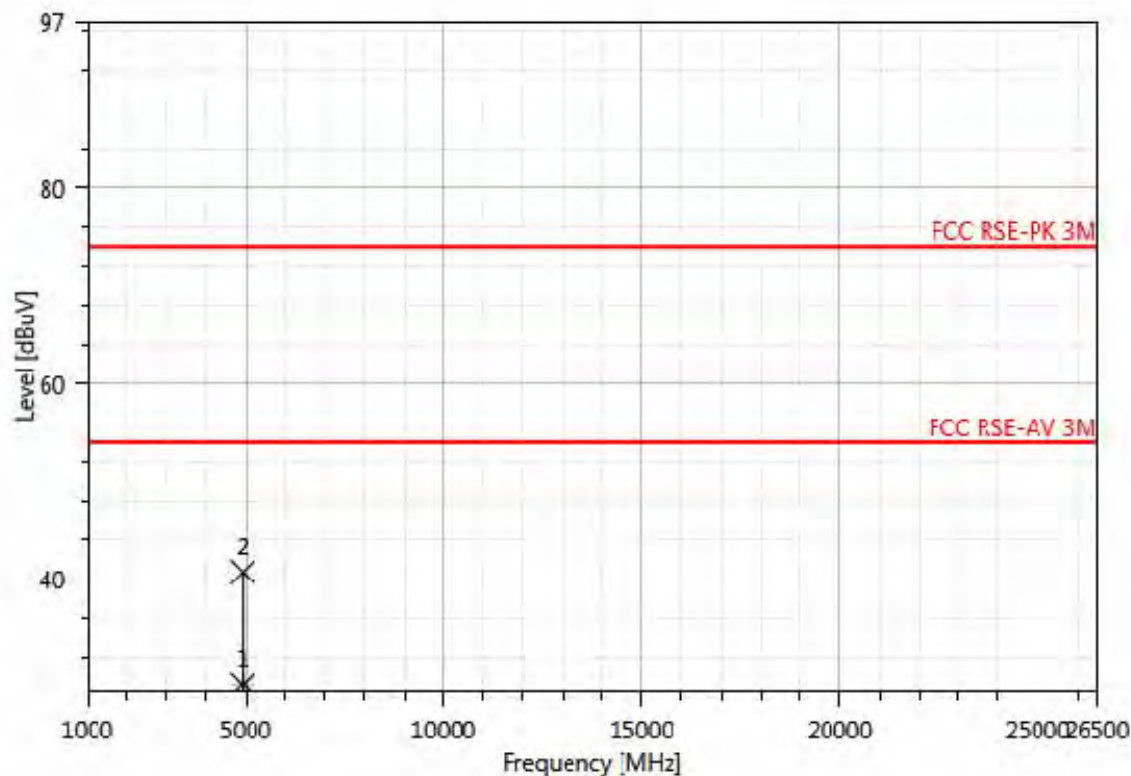
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Operation Mode :	802.11n20	Test Date :	05/20/2016 15:49:44
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4924.00	H	Average	29.24	23.99	5.25	54.00	-24.76
4924.00	H	Peak	40.73	35.48	5.25	74.00	-33.27

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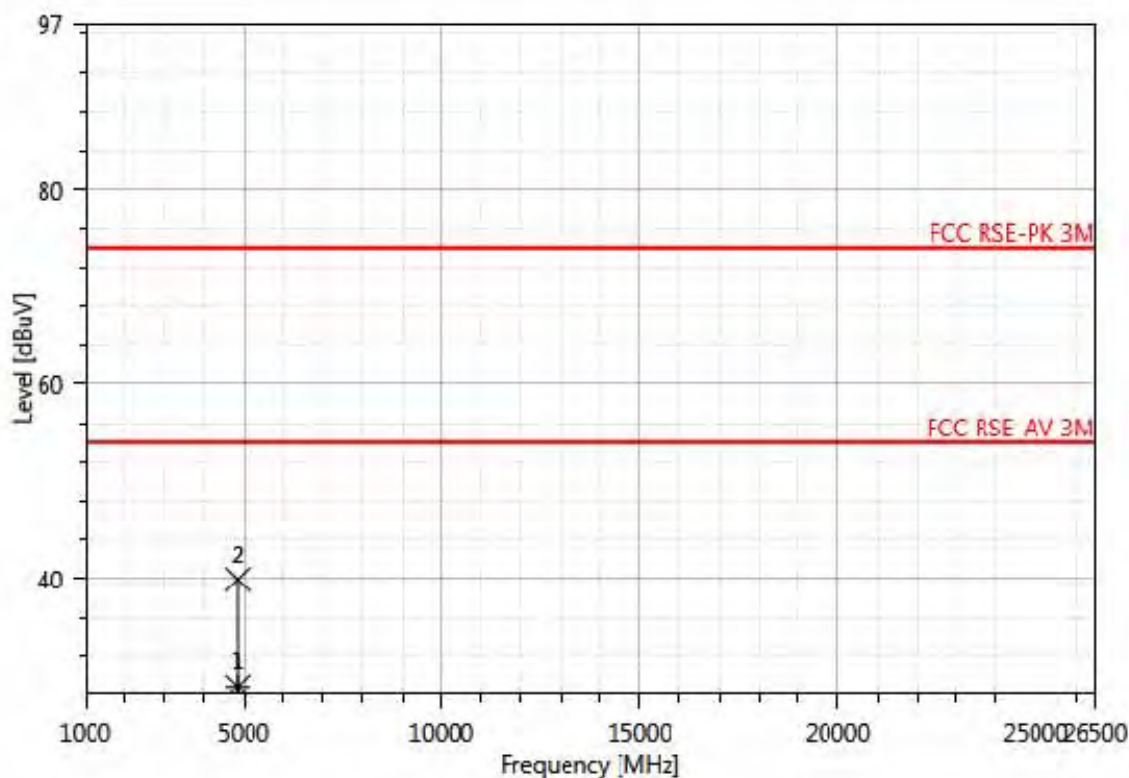
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Radiated Spurious Emission Measurement Result (802.11_HT40)

Operation Mode :	802.11n40	Test Date :	05/20/2016 15:49:59
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	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBuV/m	dBuV/m	dB	dBuV/m	dB
4844.00	H	Average	28.92	23.95	4.97	54.00	-25.08
4844.00	H	Peak	39.93	34.96	4.97	74.00	-34.07

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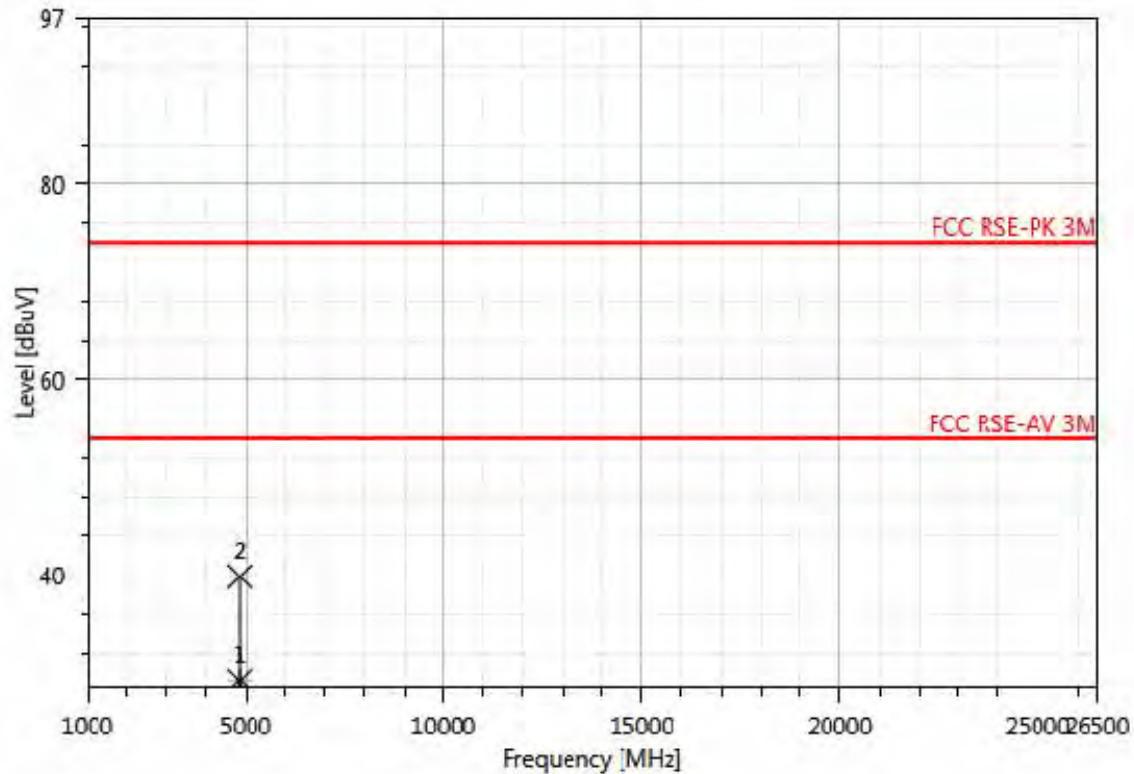
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Operation Mode :	802.11n40	Test Date :	05/20/2016 15:50:12
Fundamental Frequency :	2422 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4844.00	H	Average	29.23	24.26	4.97	54.00	-24.77
4844.00	H	Peak	39.85	34.88	4.97	74.00	-34.15

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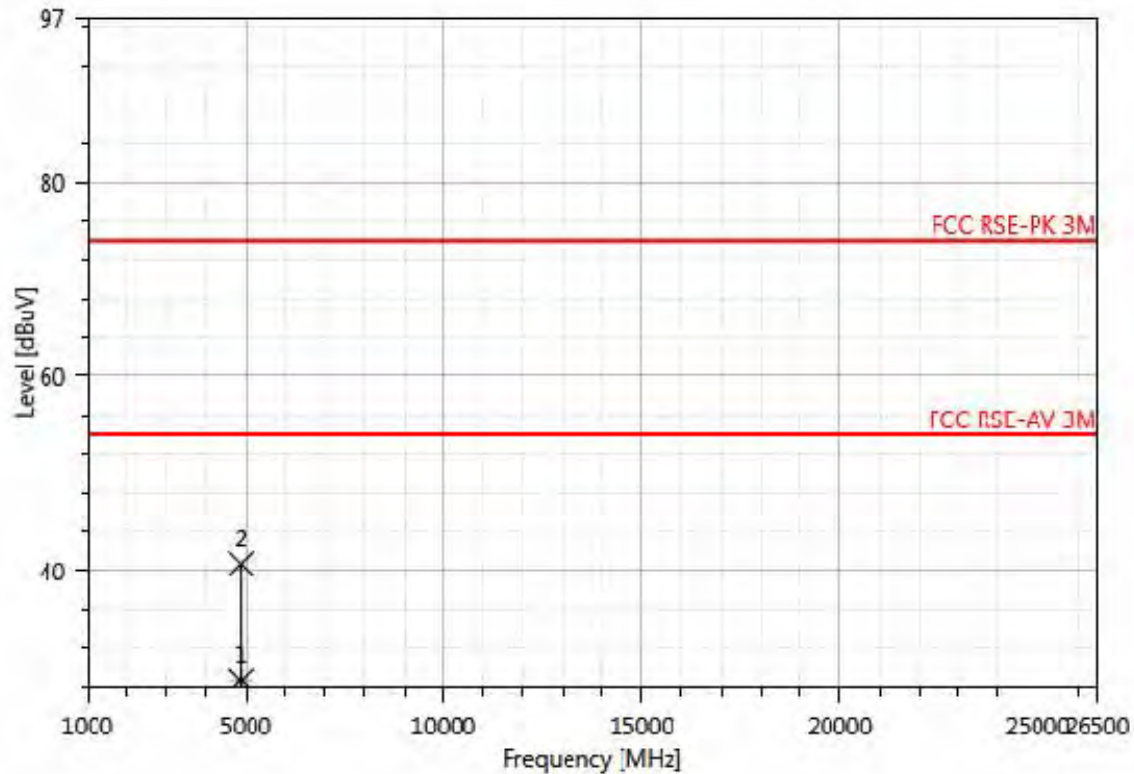
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Operation Mode :	802.11n40	Test Date :	05/20/2016 15:50:32
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBuV/m	dBuV/m	dB	dBuV/m	dB
4874.00	H	Average	28.63	23.50	5.13	54.00	-25.37
4874.00	H	Peak	40.68	35.55	5.13	74.00	-33.32

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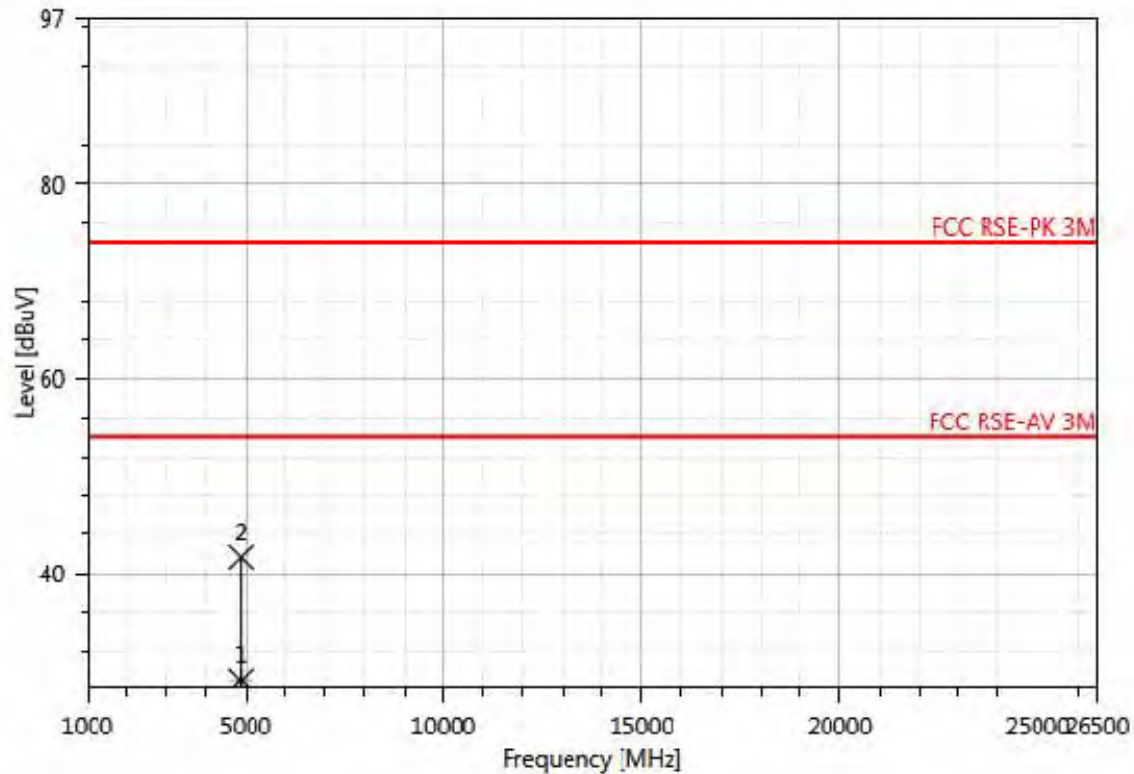
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Operation Mode :	802.11n40	Test Date :	05/20/2016 15:51:11
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
4874.00	H	Average	29.05	23.92	5.13	54.00	-24.95
4874.00	H	Peak	41.70	36.57	5.13	74.00	-32.30

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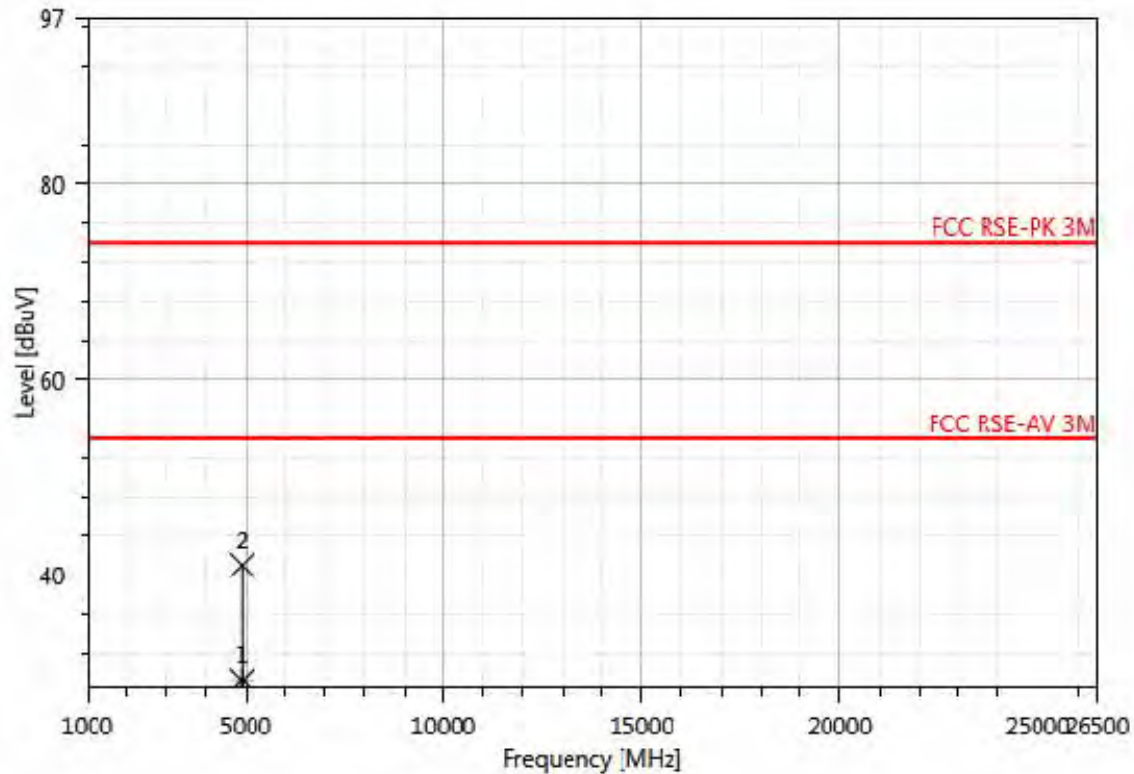
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Operation Mode :	802.11n40	Test Date :	05/20/2016 15:51:31
Fundamental Frequency :	2452 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
4904.00	H	Average	29.25	24.02	5.23	54.00	-24.75
4904.00	H	Peak	41.04	35.80	5.23	74.00	-32.96

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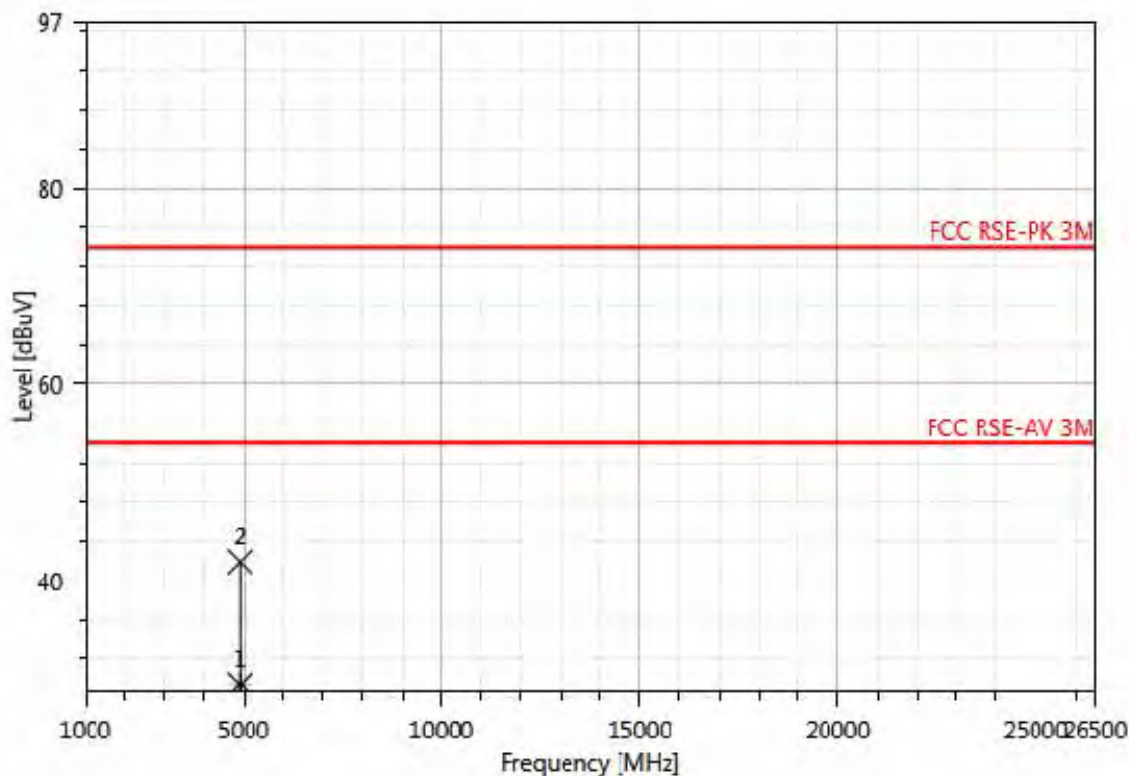
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Operation Mode :	802.11n40	Test Date :	05/20/2016 15:52:04
Fundamental Frequency :	2452 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Edward
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
4904.00	H	Average	29.37	24.14	5.23	54.00	-24.63
4904.00	H	Peak	41.88	36.65	5.23	74.00	-32.12

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12 PEAK POWER SPECTRAL DENSITY

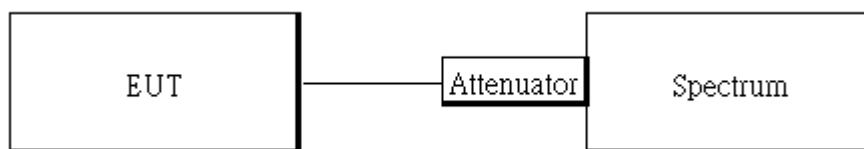
12.1 Standard Applicable

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.
Spectrum Analyzer	Agilent	N9010A	MY50420195	12/21/2015	12/20/2016
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.
5. Set the VBW = 10 kHz.
6. Detector = peak.
7. Sweep time = auto couple.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.
10. Use the peak marker function to determine the maximum amplitude level.
11. 802.11n MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna. N=2 for this given application.

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12.5 Measurement Result

POWER DENSITY 802.11b MODE			
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2412	-4.31	8.00	PASS
2437	-5.77	8.00	PASS
2462	-4.27	8.00	PASS

POWER DENSITY 802.11g MODE			
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2412	-7.85	8.00	PASS
2437	-8.22	8.00	PASS
2462	-7.43	8.00	PASS

POWER DENSITY 802.11n HT20 MODE			
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2412	-4.11	8.00	PASS
2437	-4.98	8.00	PASS
2462	-5.07	8.00	PASS

POWER DENSITY 802.11n HT40 MODE			
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2422	-7.45	8	PASS
2437	-7.64	8	PASS
2452	-6.95	8	PASS

*Refer to next page for plots

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802.11b

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



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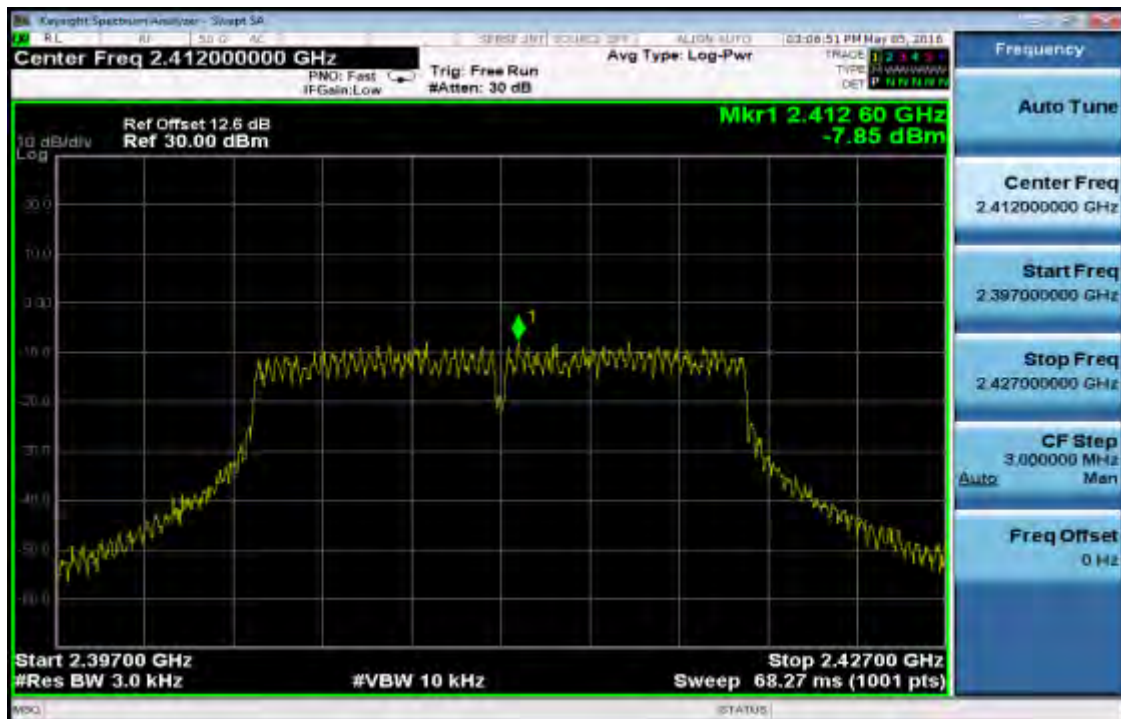
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Power Spectral Density Test Plot (CH-High)



802.11g

Power Spectral Density Test Plot (CH-Low)



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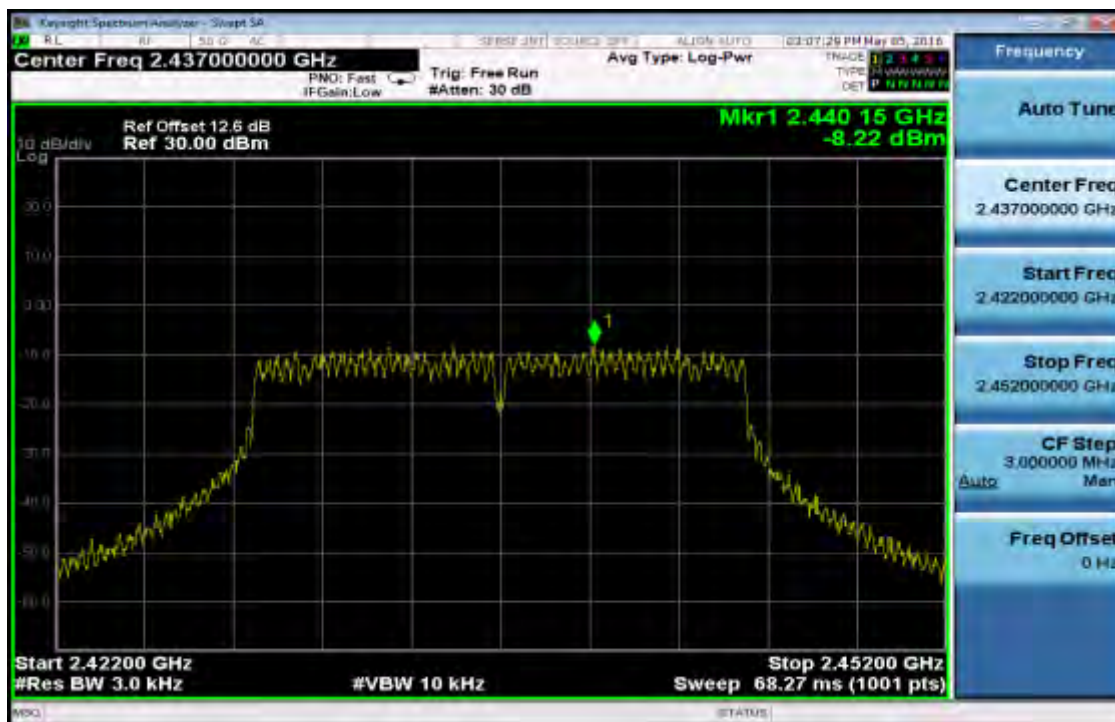
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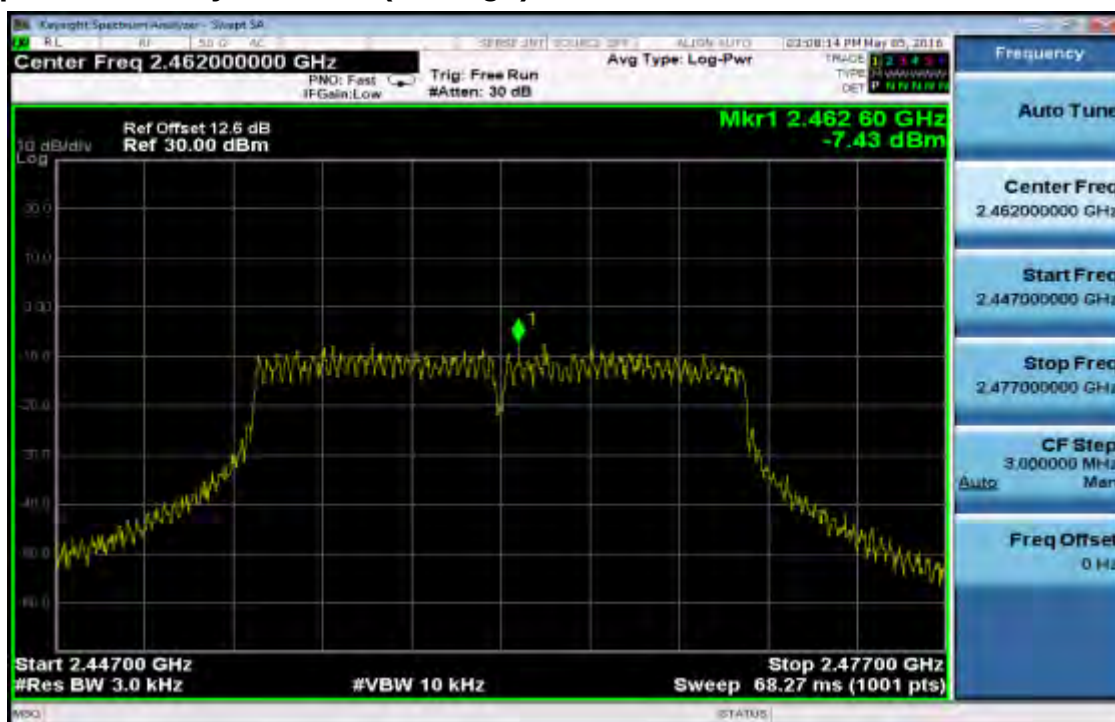
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Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



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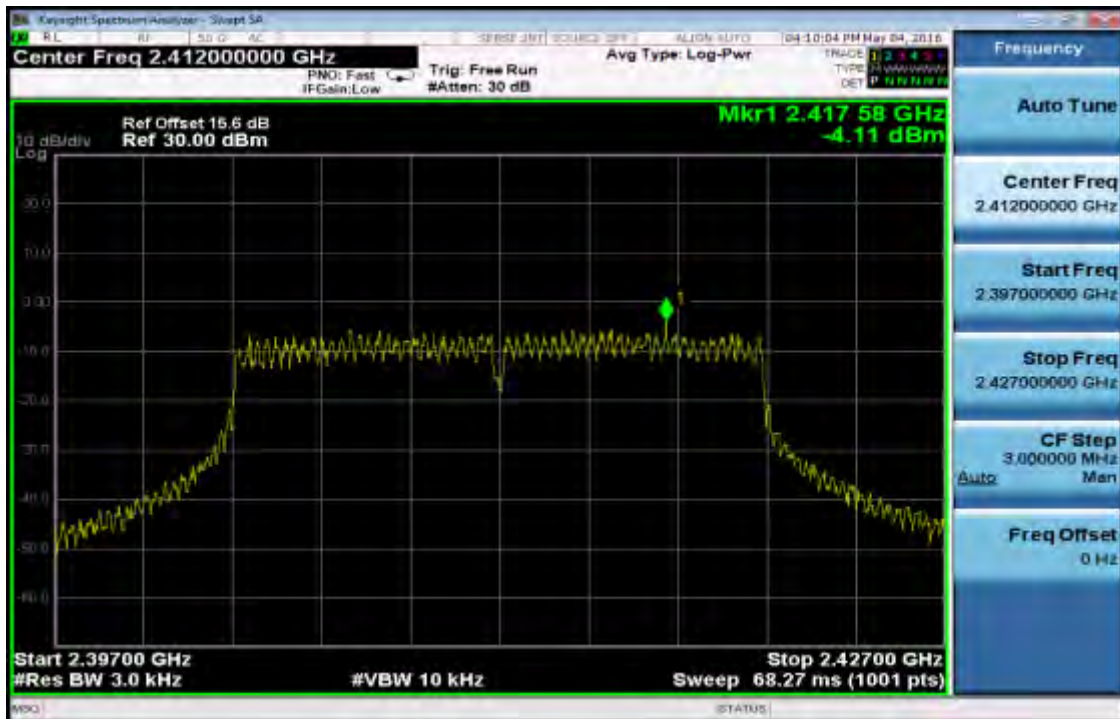
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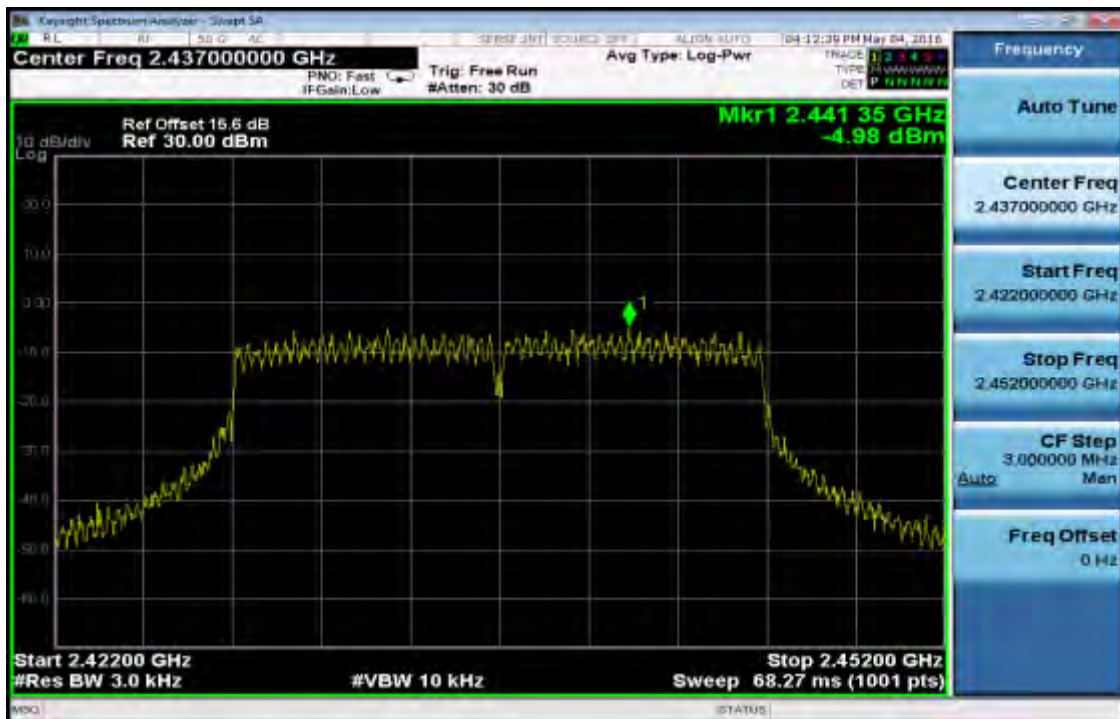
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802.11n_HT20 (MIMO)

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



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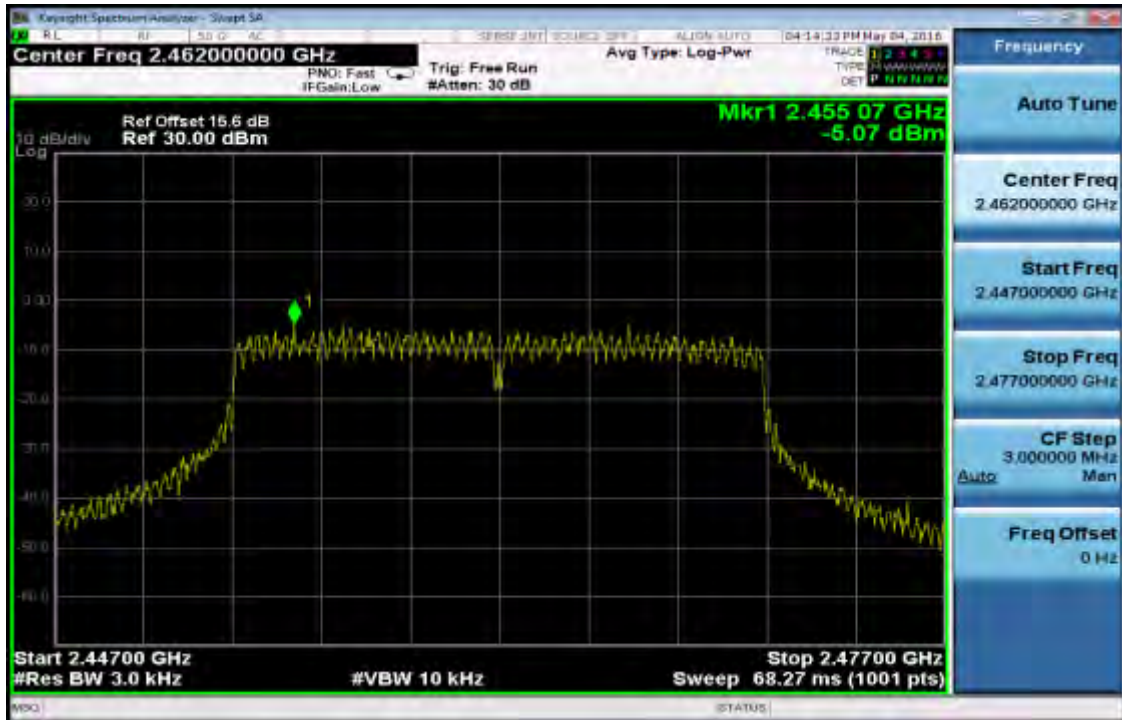
t (886-2) 2299-3279

f (886-2) 2298-0488

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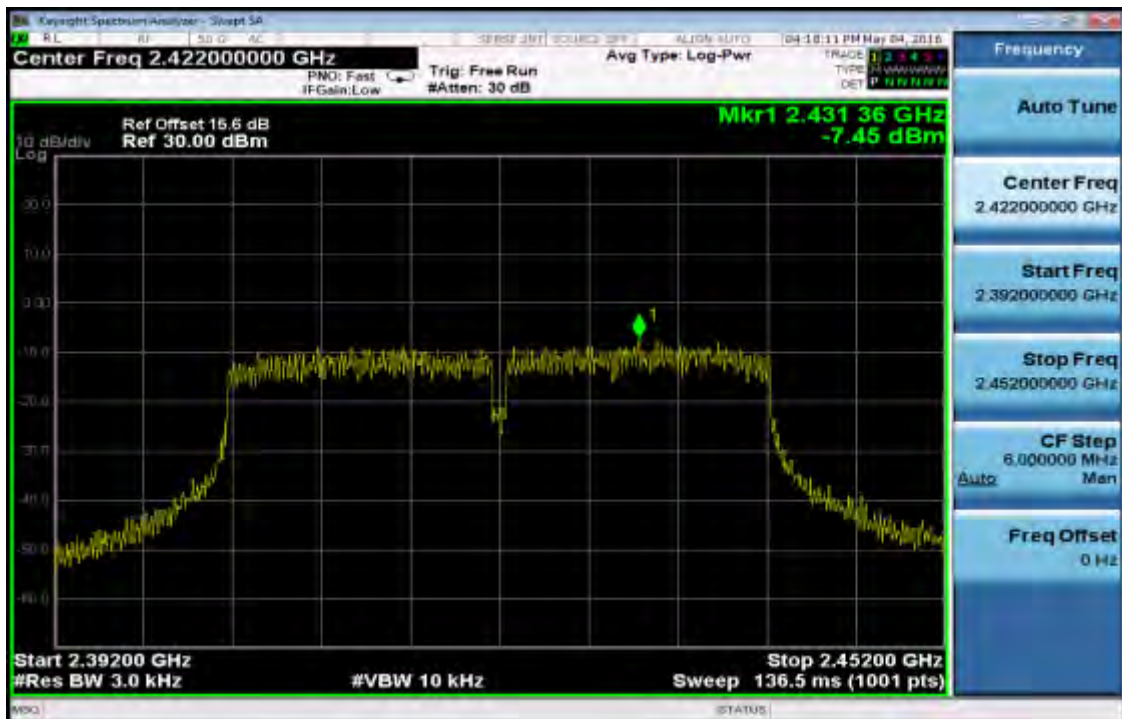
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Power Spectral Density Test Plot (CH-High)



802.11n_HT40 (MIMO)

Power Spectral Density Test Plot (CH-Low)



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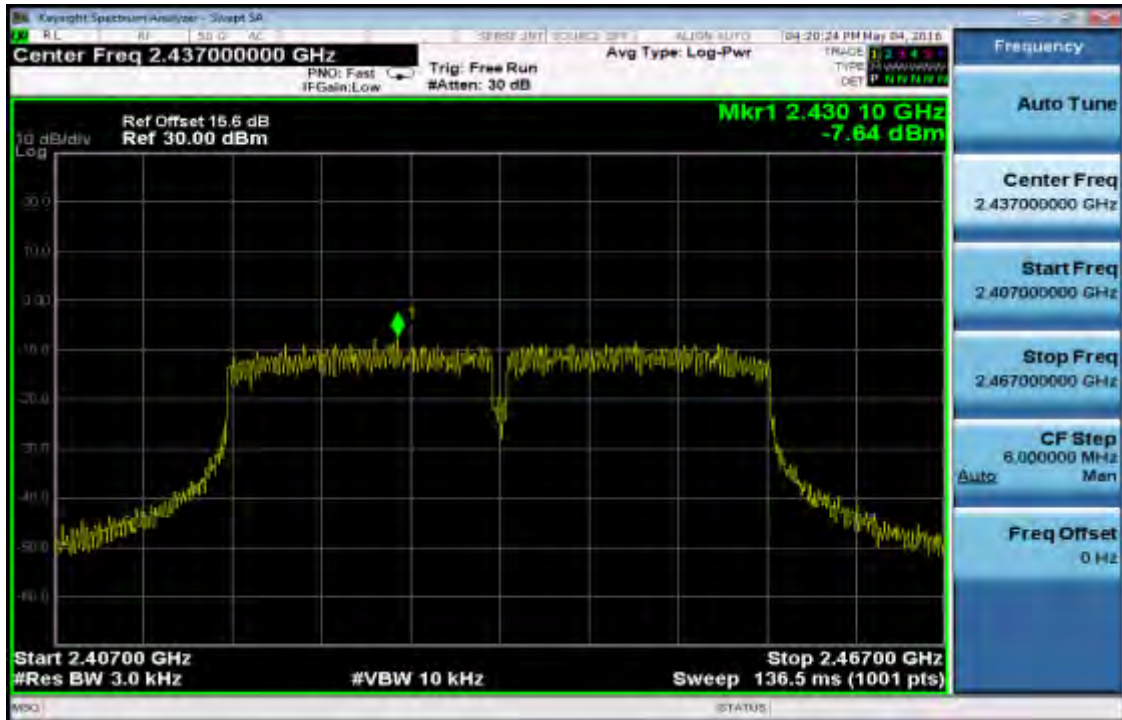
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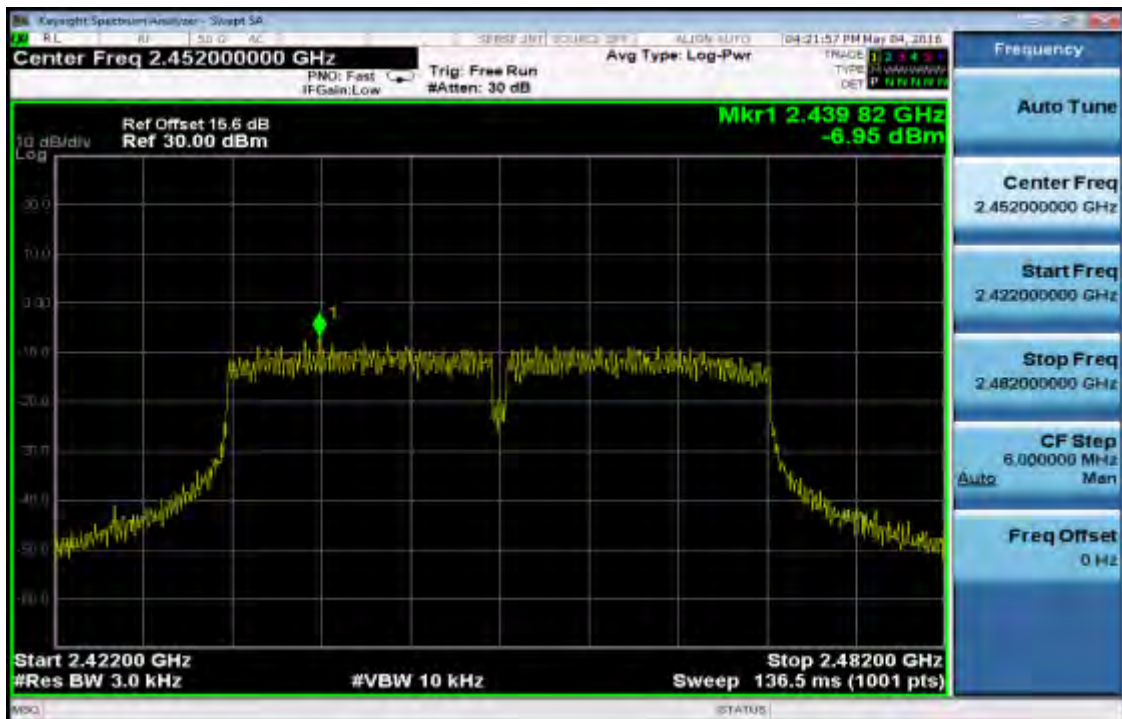
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Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



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13 ANTENNA REQUIREMENT

13.1 Standard Applicable

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

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

According to RSS-GEN 8.3

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

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

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

13.2 Antenna Connected Construction

An embedded-in antenna design is used.

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

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

~ End of Report ~

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