

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: Mobile Phone

Brand Name: FUJITSU

Model No.: F-04J

Model Difference: N/A

FCC ID: VQK-F04J

Report No.: ER/2016/B0020

Issue Date: Dec. 14, 2016

FCC Rule Part: §15.247, Cat: DTS

Prepared for: Fujitsu Limited
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VERIFICATION OF COMPLIANCE

Applicant: Fujitsu Limited
1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki 211-8588,
Japan

Product Name: Mobile Phone

Brand Name: FUJITSU

Model No.: F-04J

Model Difference: N/A

FCC ID: VQK-F04J

Report Number: ER/2016/B0020

Date of test: Nov. 07, 2016 ~ Dec. 01, 2016

Date of EUT Received: Nov. 07, 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:

Marcus Tseng

Date

Dec. 14, 2016

Marcus Tseng / Engineer

Prepared By:

Karen Huang

Date

Dec. 14, 2016

Karen Huang / Clerk

Approved By:

Jim Chang

Date

Dec. 14, 2016

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
ER/2016/B0020	Rev.00	Initial creation of document	Dec. 14, 2016

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1 GENERAL INFORMATION

1.1 Product description

General:

Product Name:	Mobile Phone	
Brand Name:	FUJITSU	
Model No.:	F-04J	
Model Difference:	N/A	
Hardware Version:	V2.1.0	
Software Version:	R028.1e	
Cradle:	Model No.: F46, Supplier: FUJITSU LIMITED	
Power Supply:	3.8Vdc from Rechargeable Li-ion Battery or 5Vdc from AC/DC Adapter / Cradle	
	Battery:	Model No.: F35, Supplier: FUJITSU CONNECTED TECHNOLOGIES LIMITED
	Adapter:	Model No.: FMV-AC346, Supplier: FUJITSU LIMITED

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WLAN 2.4GHz:

Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology
11b/g	2412-2462	11	b: 15.61dBm g: 21.20dBm	DSSS, OFDM
11n	HT20 2412-2462	11	HT20: 21.25dBm	OFDM
Antenna Designation:		$\lambda/4$ Monopole Antenna, Gain: -5.5dBi		
Modulation type:		CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM		
Transition Rate:		802.11 b: up to 11 Mbps; 802.11 g: up to 54 Mbps 802.11 n_20MHz: up to 72.2Mbps		

1.2 Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is supporting below features.

Product Feature	
GSM Operating Band(s)	GSM 850/1900MHz
GPRS Multi Slot Class	GPRS Class 11
WCDMA Operating Band(s)	FDD Band V
WCDMA Rel. Version	Rel.9
Bluetooth Version	V4.2 dual mode
Wi-Fi Specification	802.11 a/b/g/n/ac
NFC Specification	NFC

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

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.
3. The EUT was placed 1.5m height for frequency above 1GHz in accordance with ANSI C63. 10 :2013.

1.4 Test Facility

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

FCC Registration Numbers are: 509634

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Radiated Emissions

The EUT is a placed on as 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 2.3dB and 10dB attenuator.

$$\text{offset} = \text{RF cable loss (dB)} + \text{attenuation factor(dB)} = 12.3(\text{dB})$$

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission Configuration

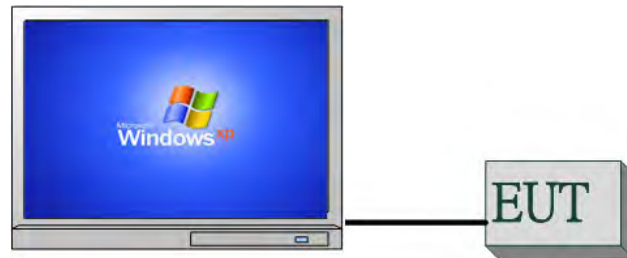


Fig. 2-2 Conducted Emission Configuration

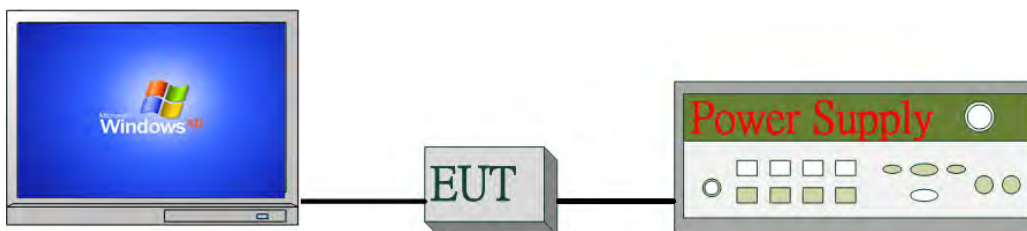
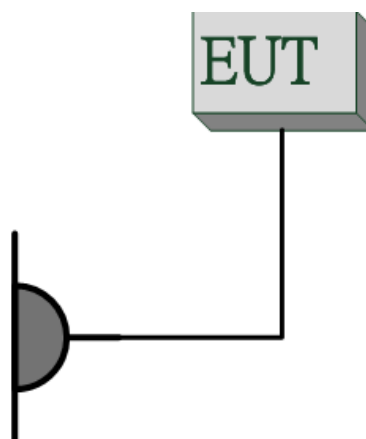


Fig. 2-3 Configuration of Conducted Tested System



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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	L430	N/A	Shielded	Unshielded
3.	DC Power Supply	Agilent	E3640A	KR93300208	N/A	Unshielded

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3 SUMMARY OF TEST RESULTS

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

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		

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4.2 The Worst Test Modes and Channel Details

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

RADIATED EMISSION TEST:

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

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.

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 0	MAIN

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5 MEASUREMENT UNCERTAINTY

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

Radiated Spurious Emission:

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

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

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

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6 CONDUCTED EMISSION TEST

6.1 Standard Applicable

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

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

- The lower limit shall apply at the transition frequencies
- 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	05/10/2016	05/09/2017
LISN	SCHWARZBECK	NSLK 8127	8127-649	05/16/2016	05/15/2017
LISN	MESS TEC	FCC-LISN-50/250 -25-2-01	4034	05/16/2016	05/15/2017
Coaxial Cables	N/A	WK CE Cable	N/A	11/26/2016	11/25/2017

6.3 EUT Setup

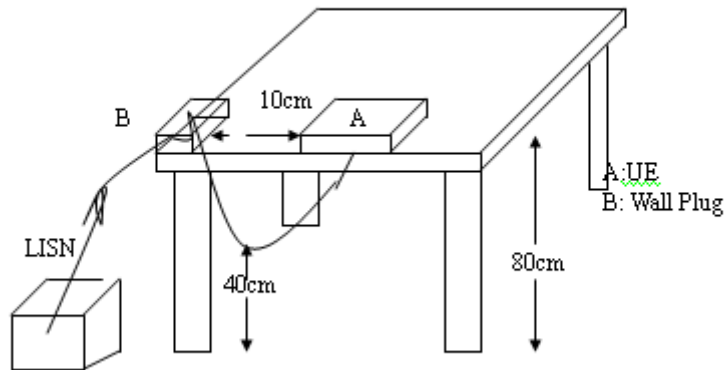
- The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
- The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- The LISN was connected with 120Vac/60Hz power source.

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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure

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

6.6 Measurement Result

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

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

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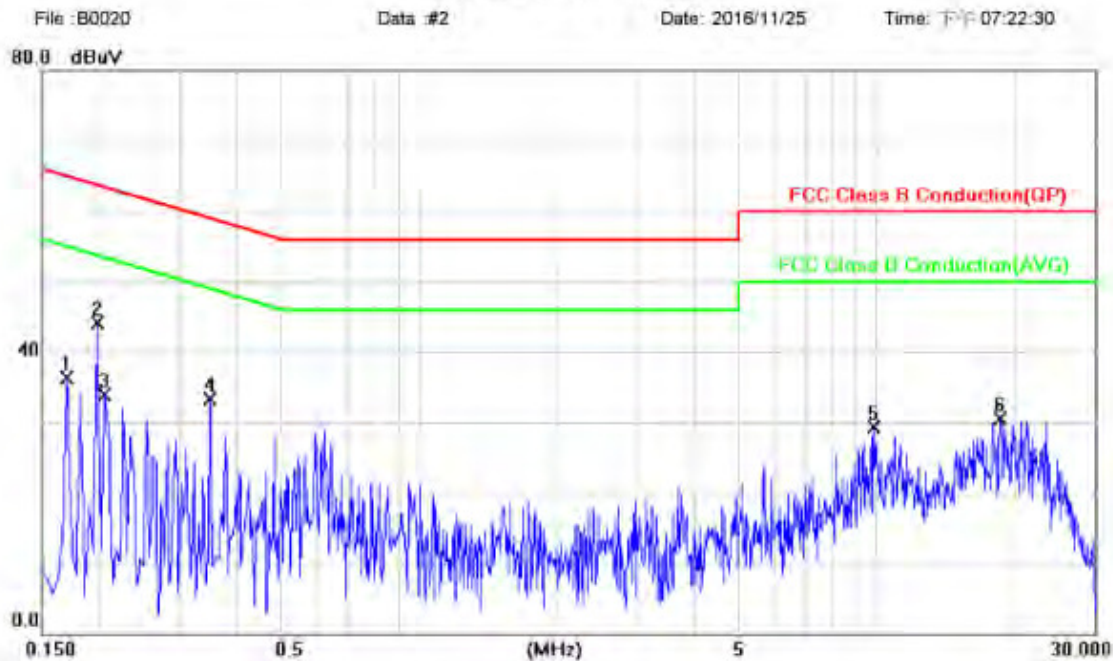
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode	Test By:	Tin
-----------------	----------------	----------	-----

Site Conduction Room	Phase: L1	Temperature: 20 ℃
Limit: FCC Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 58 %
Mode: Operation		
Note: Adapter:FMV-AC346		

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1700	36.33	0.07	36.40	64.96	-28.56	peak	
2	*	0.1980	43.98	0.08	44.06	63.69	-19.63	peak	
3		0.2060	33.78	0.08	33.84	63.37	-29.53	peak	
4		0.3500	33.19	0.10	33.29	58.96	-25.67	peak	
5		9.8620	28.97	0.37	29.34	60.00	-30.66	peak	
6		18.6900	29.99	0.45	30.44	60.00	-29.56	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	99.99	0.00
802.11g	99.99	0.00
802.11n_20	99.99	0.00

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9999) = 0$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9999) = 0$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9999) = 0$$

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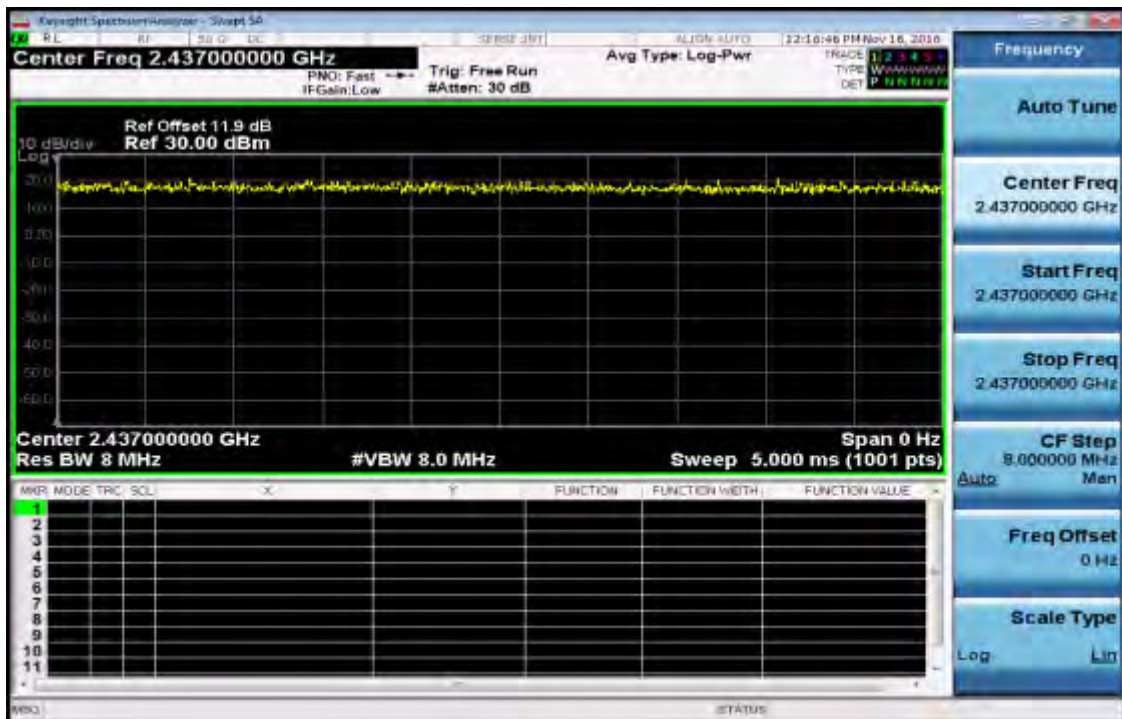
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7.1 DUTY CYCLE TEST SIGNAL Measurement Result
802.11 b



802.11 g

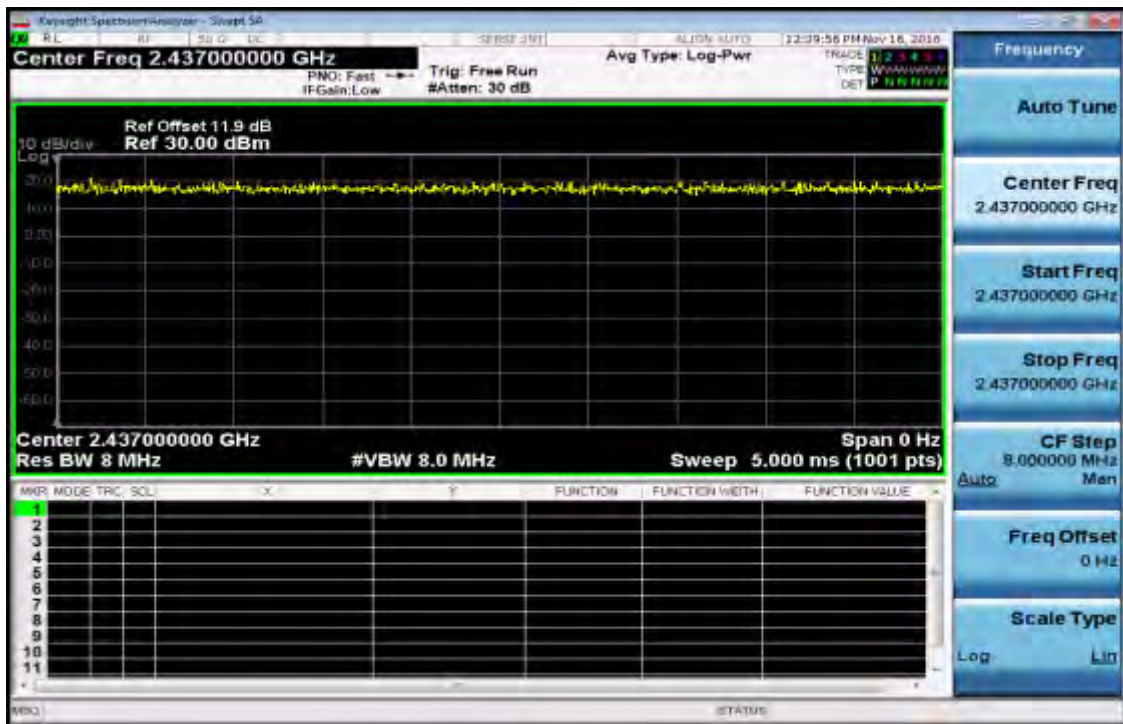


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802.11 n_20 MHz



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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

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

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

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

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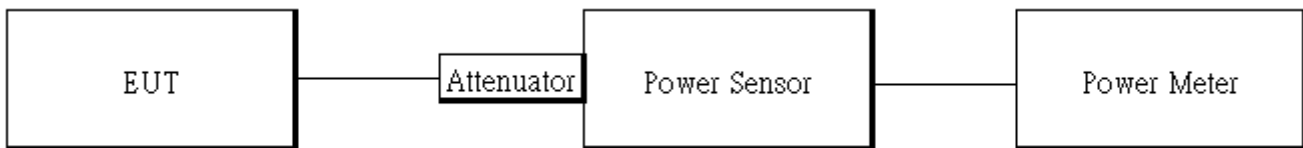
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8.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
Power Meter	Anritsu	ML2496A	1326001	06/23/2016	06/22/2017
Power Sensor	Anritsu	MA2411B	1315048	06/23/2016	06/22/2017
Power Sensor	Anritsu	MA2411B	1315049	06/23/2016	06/22/2017
Coaxial Cable 30cm	WOKEN	00100A1F1A195 C	RF01	12/12/2015	12/11/2016
DC Block	PASTERNAK	PE8210	RF29	12/12/2015	12/11/2016

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	15.58	36.14	1 Watt = 30.00 dBm	PASS
6	2437	1	14.69	29.44	1 Watt = 30.00 dBm	PASS
11	2462	1	15.61	36.39	1 Watt = 30.00 dBm	PASS

802.11b Main						
CH	Frequency (MHz)	Data Rate	Avg. Output include tune up tolerance Power (dBm)	Avg. Output include tune up tolerance Power (mW)	Limit	RESULT
1	2412	1	13.01	20.00	1 Watt = 30.00 dBm	PASS
6	2437	1	12.22	16.67	1 Watt = 30.00 dBm	PASS
11	2462	1	13.12	20.51	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	21.13	129.72	1 Watt = 30.00 dBm	PASS
6	2437	6	20.68	116.95	1 Watt = 30.00 dBm	PASS
11	2462	6	21.2	131.83	1 Watt = 30.00 dBm	PASS

802.11g Main						
CH	Frequency (MHz)	Data Rate	Avg. Output include tune up tolerance Power (dBm)	Avg. Output include tune up tolerance Power (mW)	Limit	RESULT
1	2412	6	12.75	18.84	1 Watt = 30.00 dBm	PASS
6	2437	6	12.65	18.41	1 Watt = 30.00 dBm	PASS
11	2462	6	12.76	18.88	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	21.25	133.35	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	20.75	118.85	1 Watt = 30.00 dBm	PASS
11	2462	MCS0	21.11	129.12	1 Watt = 30.00 dBm	PASS
802.11n_HT20M Main						
CH	Frequency (MHz)	Data Rate	Avg. Output include tune up tolerance Power (dBm)	Avg. Output include tune up tolerance Power (mW)	Limit	RESULT
1	2412	MCS0	12.8	19.05	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	12.66	18.45	1 Watt = 30.00 dBm	PASS
11	2462	MCS0	12.7	18.62	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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9 6dB BANDWIDTH MEASUREMENT

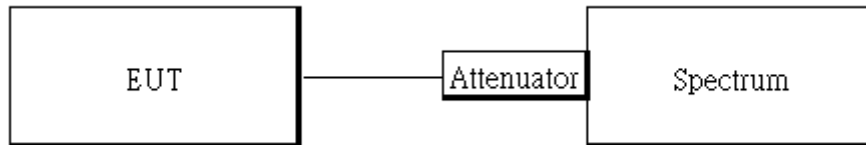
9.1 Standard Applicable

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

9.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
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

9.3 Test Set-up



9.4 Measurement Procedure

- Place the EUT on the table and set it in transmitting mode.
- The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- For 6dB Bandwidth:
Set the spectrum analyzer as RBW = 100 kHz, VBW = 3*RBW, Span = 30M/50MHz, Detector=peak, Sweep=auto.
- Mark the peak frequency and -6dB (upper and lower) frequency.

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9.5 Measurement Result

6dB Bandwidth

802.11 b Main

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	8564	> 500	PASS
2437	8564	> 500	PASS
2462	8576	> 500	PASS

802.11 g Main

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	16360	> 500	PASS
2437	16370	> 500	PASS
2462	15960	> 500	PASS

802.11_n_HT20 Main

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	17580	> 500	PASS
2437	17350	> 500	PASS
2462	16580	> 500	PASS

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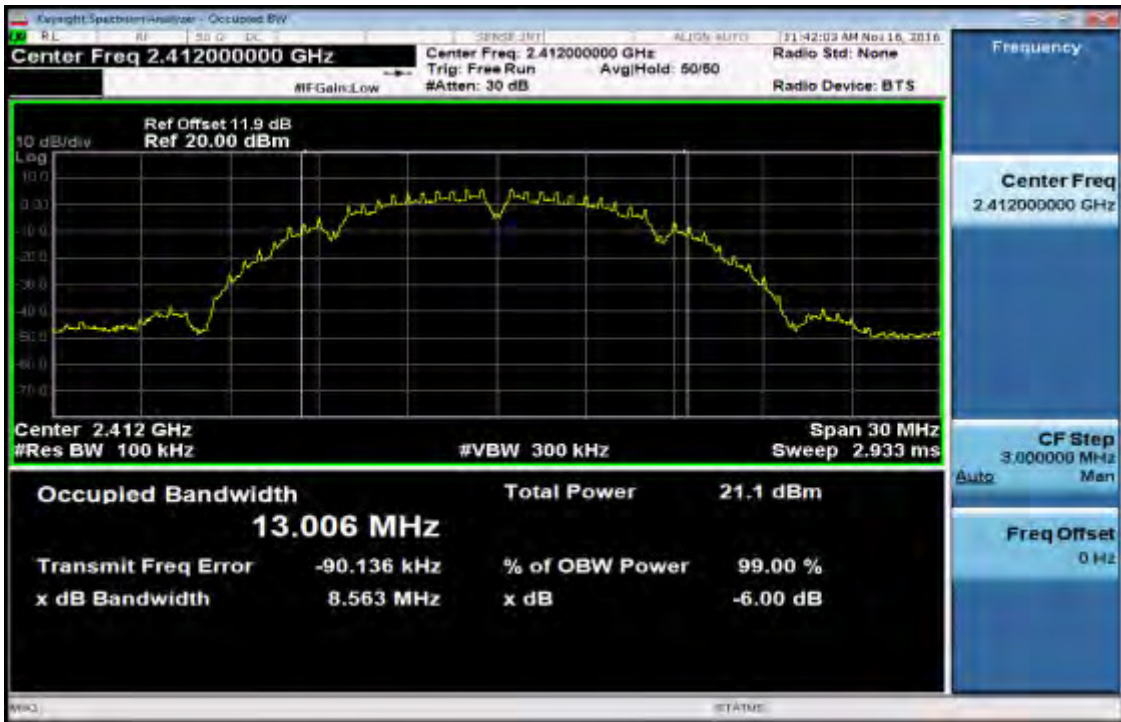
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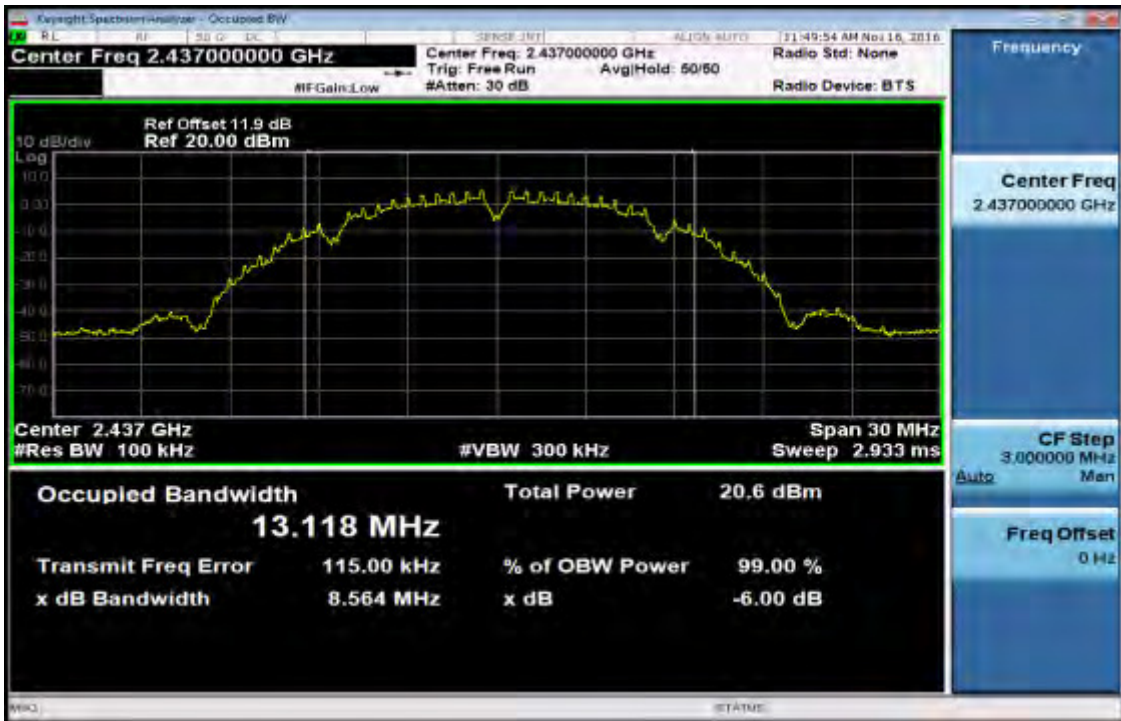
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802.11b
6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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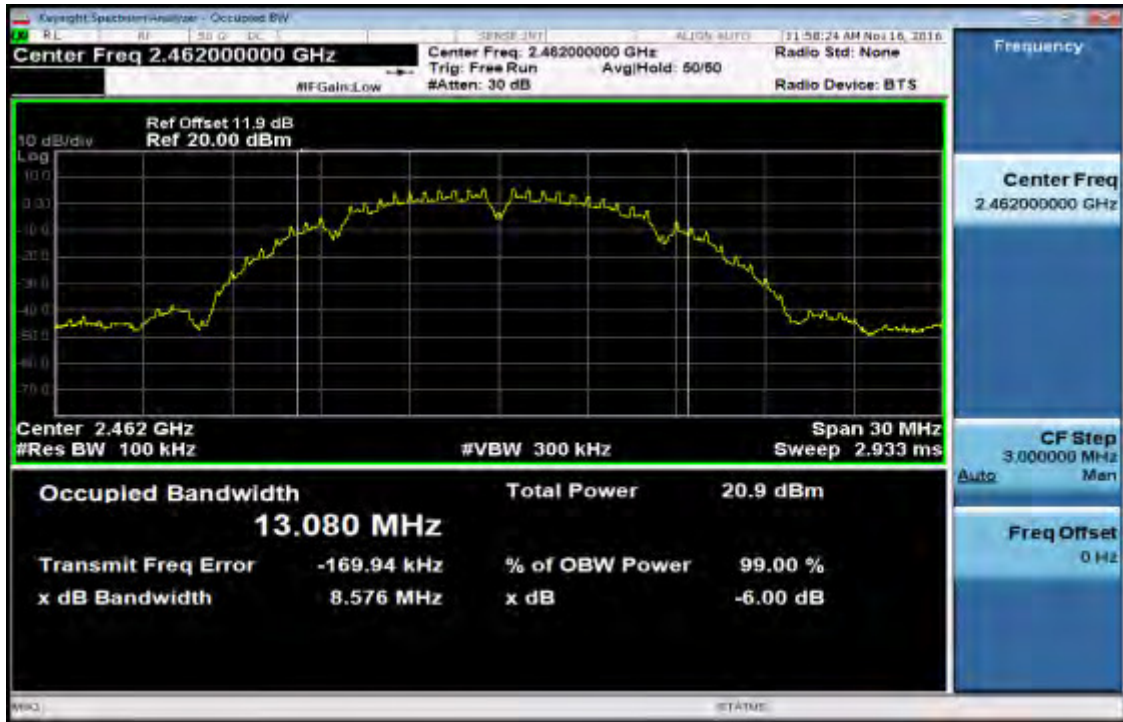
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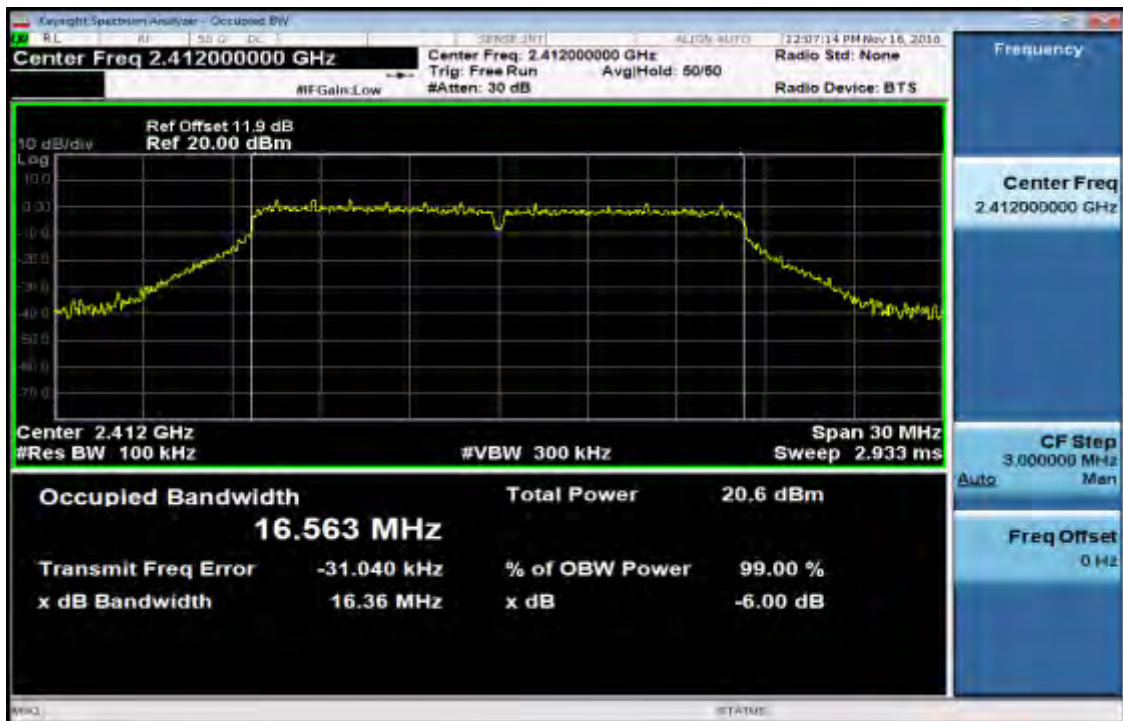
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6dB Band Width Test Data CH-High



802.11g

6dB Band Width Test Data CH-Low



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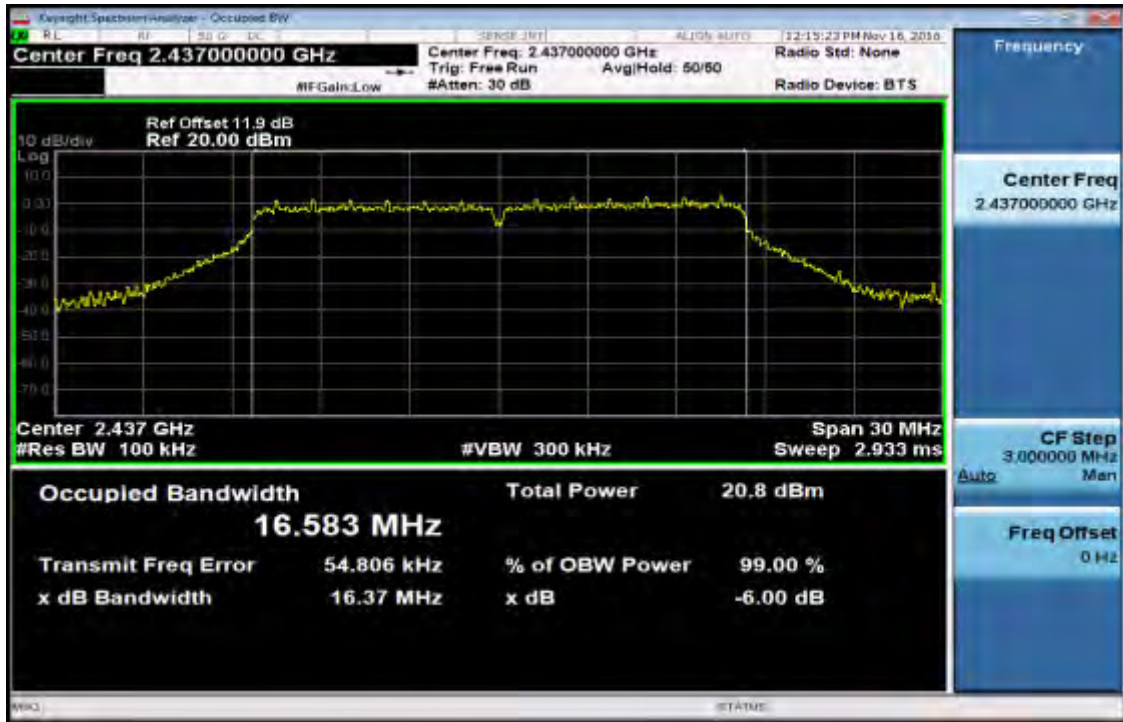
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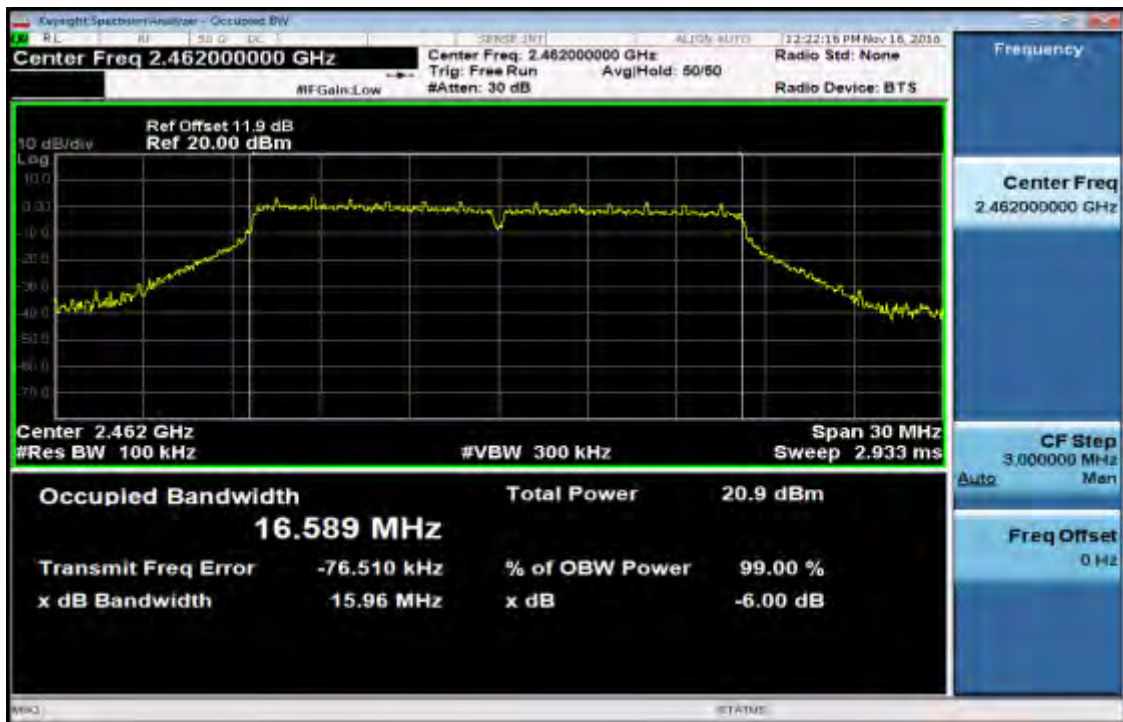
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



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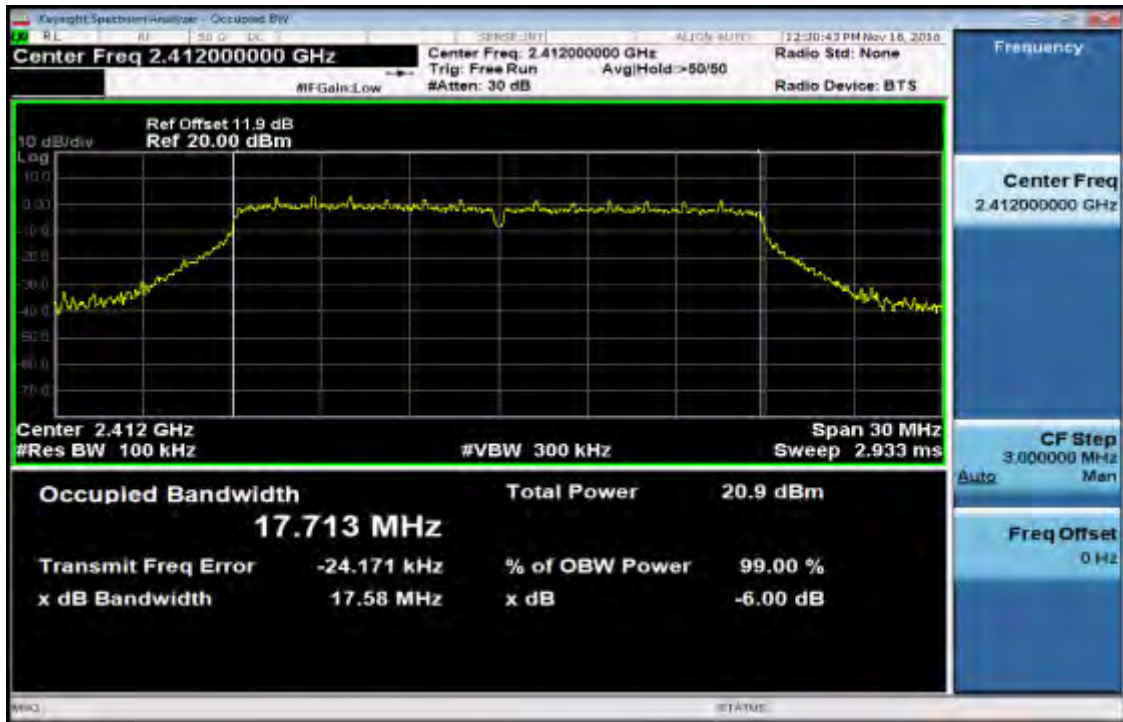
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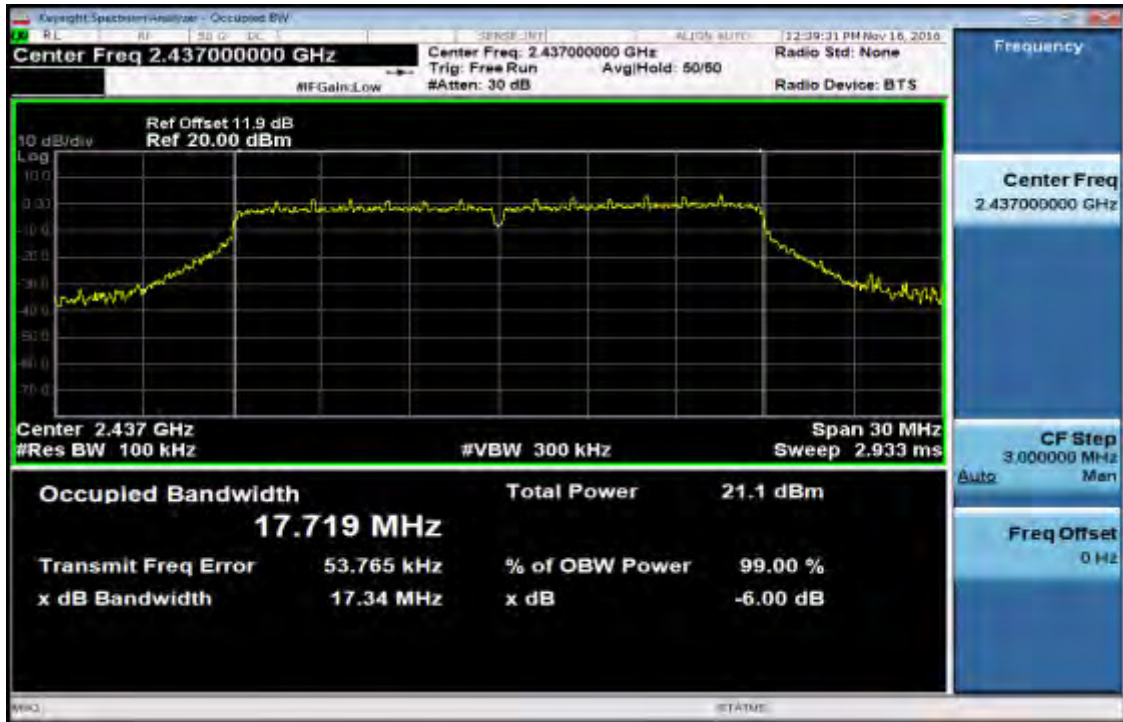
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802.11n_20M

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

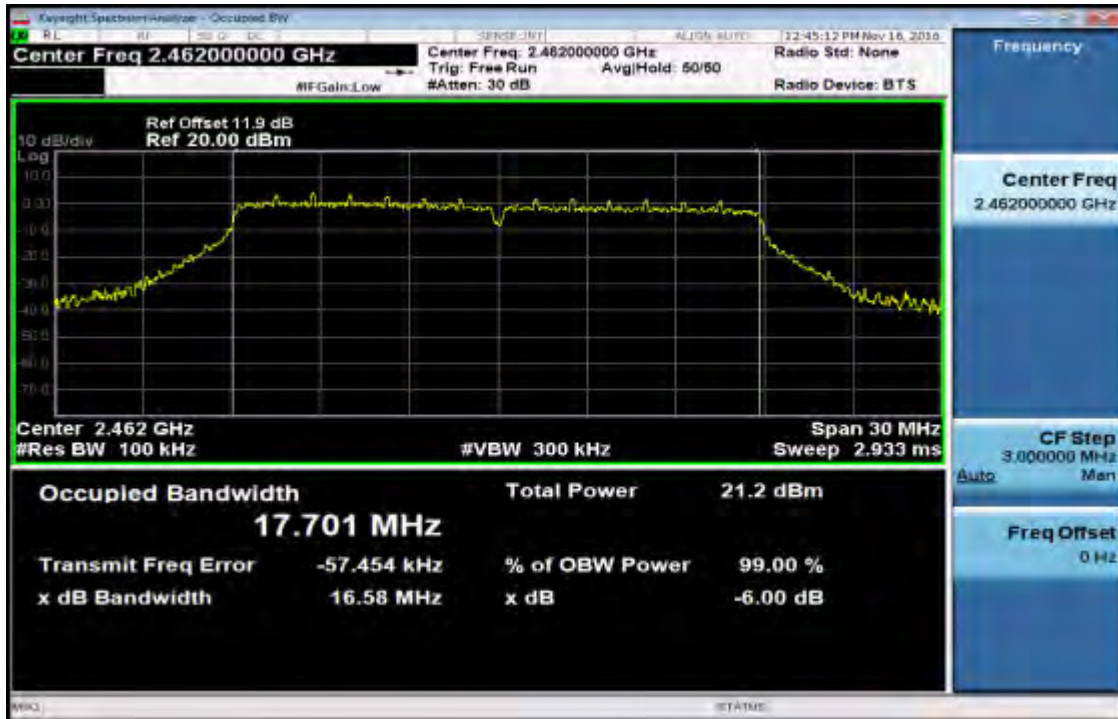


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6dB Band Width Test Data CH-High



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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

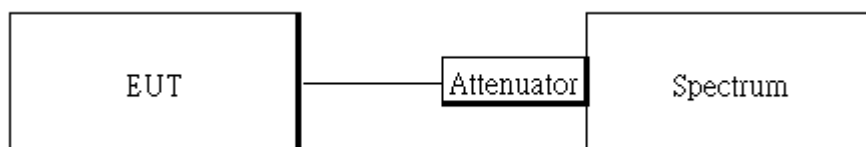
10.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

10.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
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

10.3 Test SET-UP



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10.3.1 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.

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10.4 Measurement Result

Bandedge Limit 802.11b MODE		
Frequency (MHz)	RF Power Density (dBm)	Bandedge Limit (dBm)
2412	5.67	-14.33
2462	5.55	-14.45

Bandedge Limit 802.11g MODE		
Frequency (MHz)	RF Power Density (dBm)	Bandedge Limit (dBm)
2412	2.92	-17.08
2462	3.37	-16.63

Bandedge Limit 802.11n20 MODE		
Frequency (MHz)	RF Power Density (dBm)	Bandedge Limit (dBm)
2412	3.04	-16.96
2462	3.58	-16.42

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802.11b

Power Spectral Density for Bandedge Limit (CH-Low)



Power Spectral Density for Bandedge Limit (CH-High)



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Power Spectral Density for Bandedge Limit (CH-Low)



Power Spectral Density for Bandedge Limit (CH-High)



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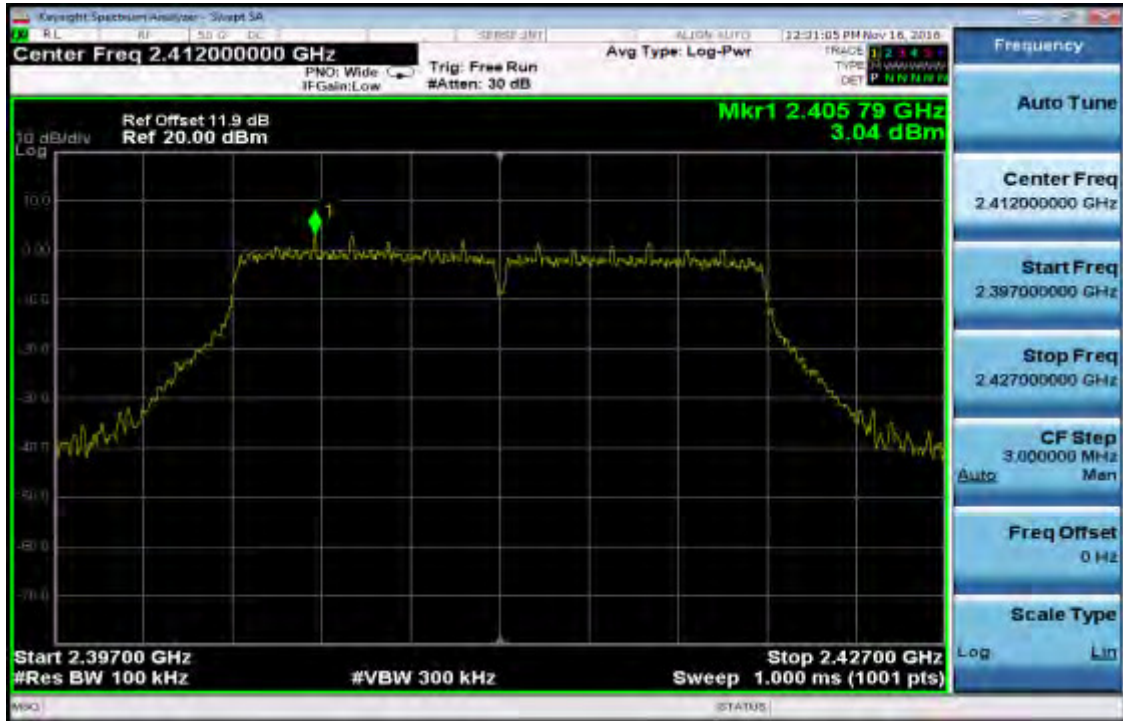
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802.11 n_HT20

Power Spectral Density for Bandedge Limit (CH-Low)



Power Spectral Density for Bandedge Limit (CH-High)



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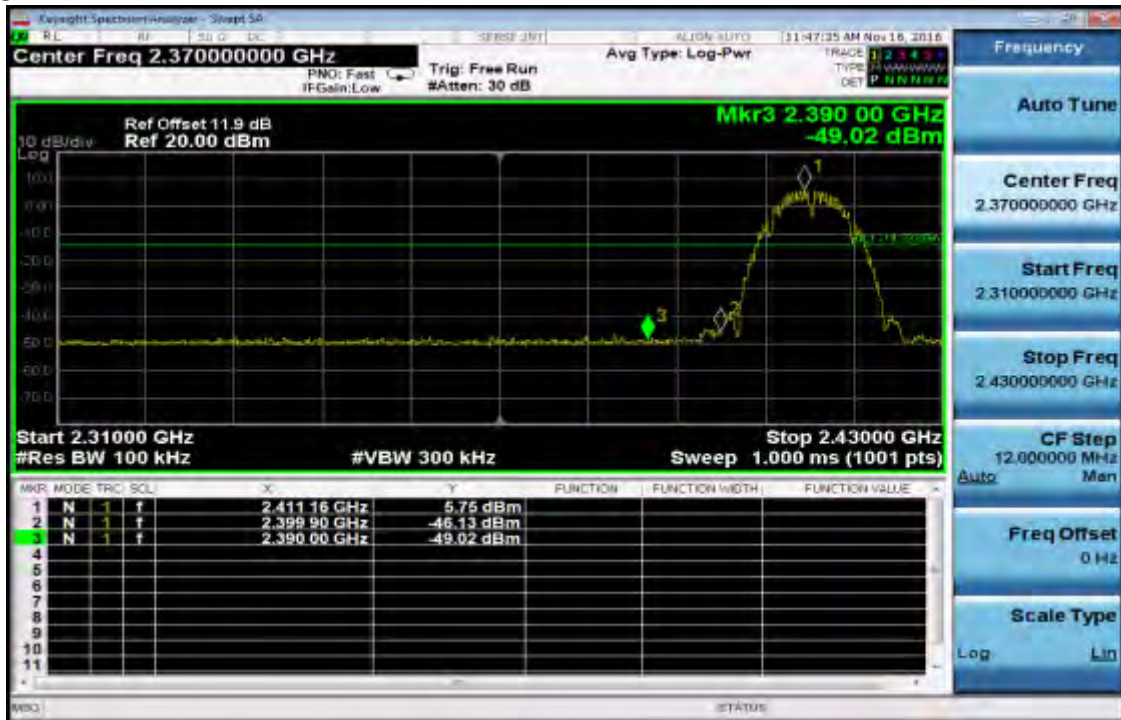
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802.11b
Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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Spurious Emission Test Data CH-Low



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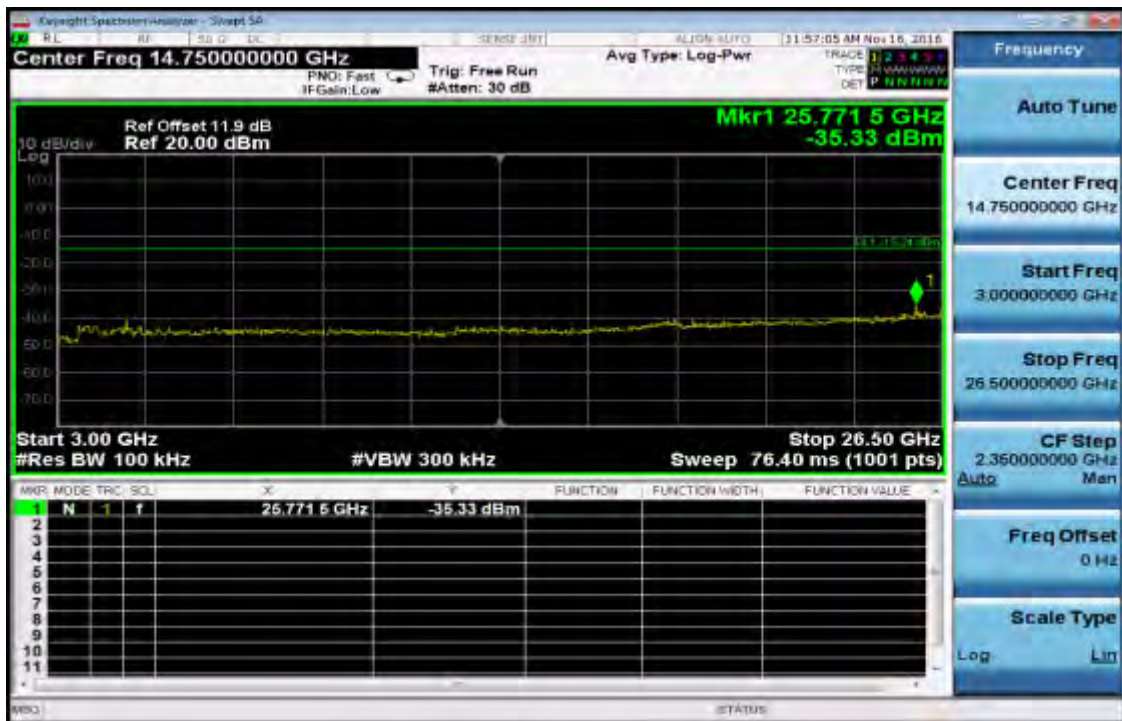
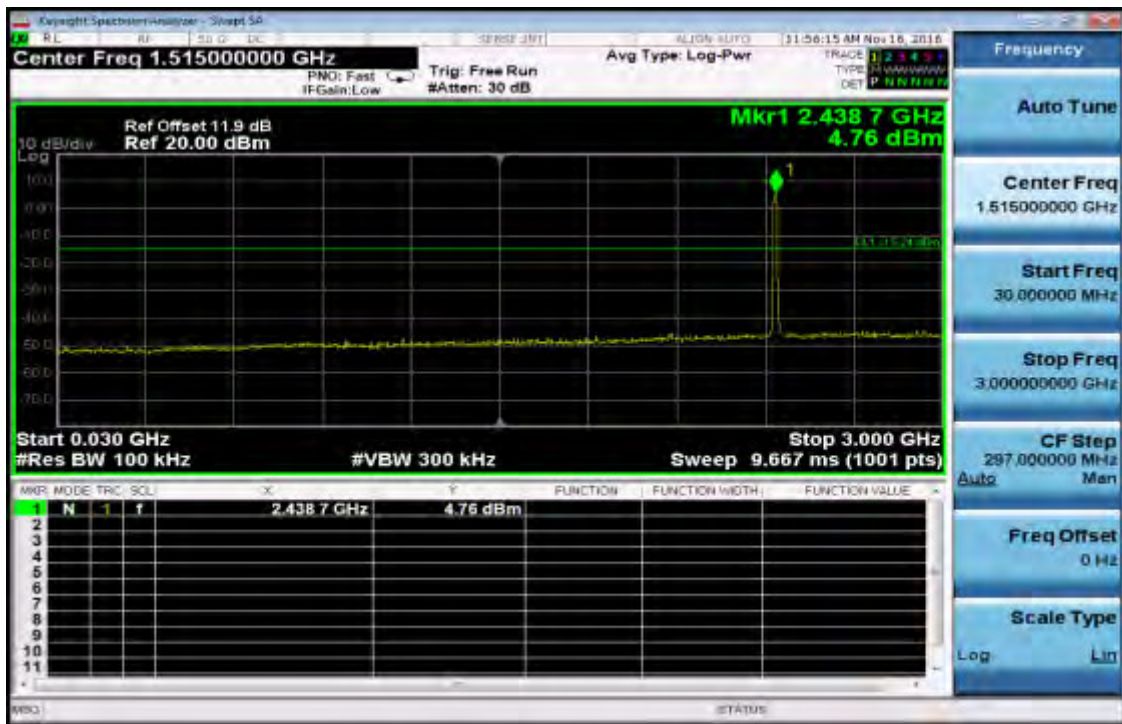
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Spurious Emission Test Data CH-Mid



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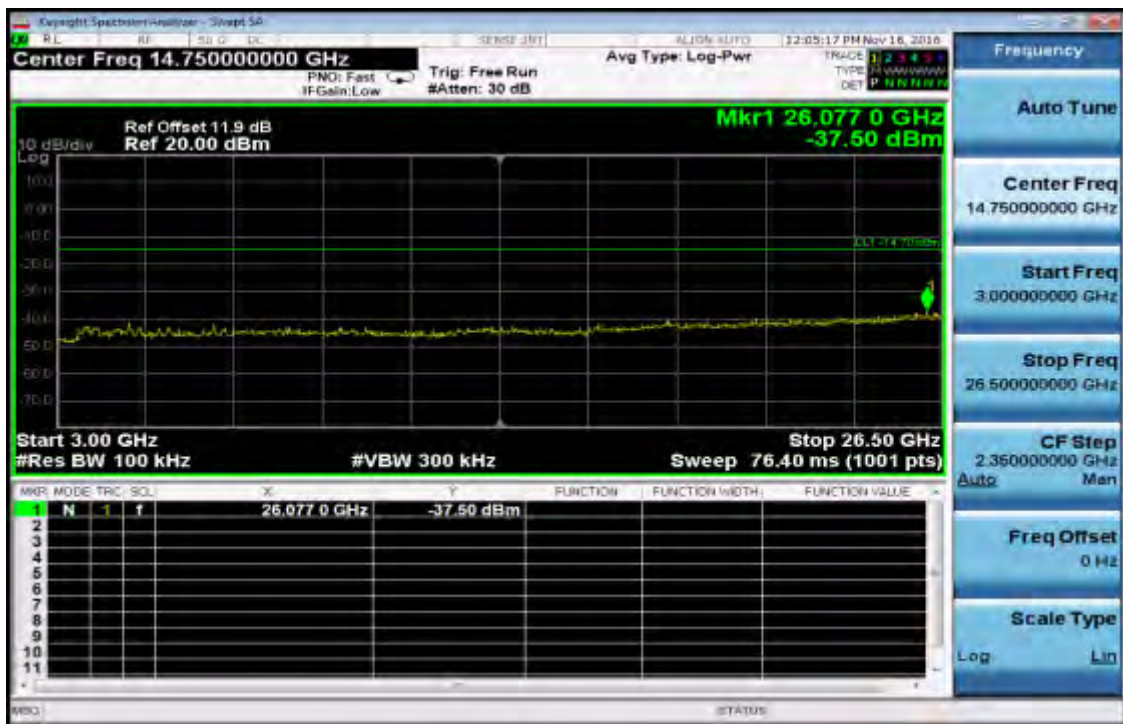
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Spurious Emission Test Data CH-High



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802.11g
Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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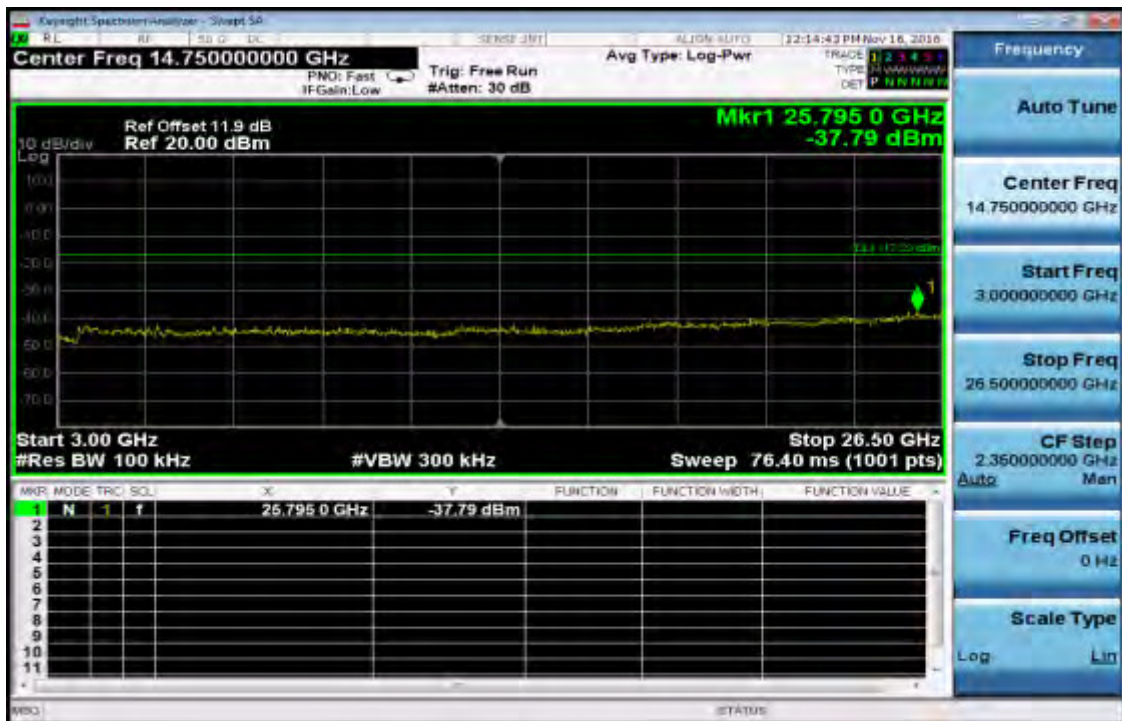
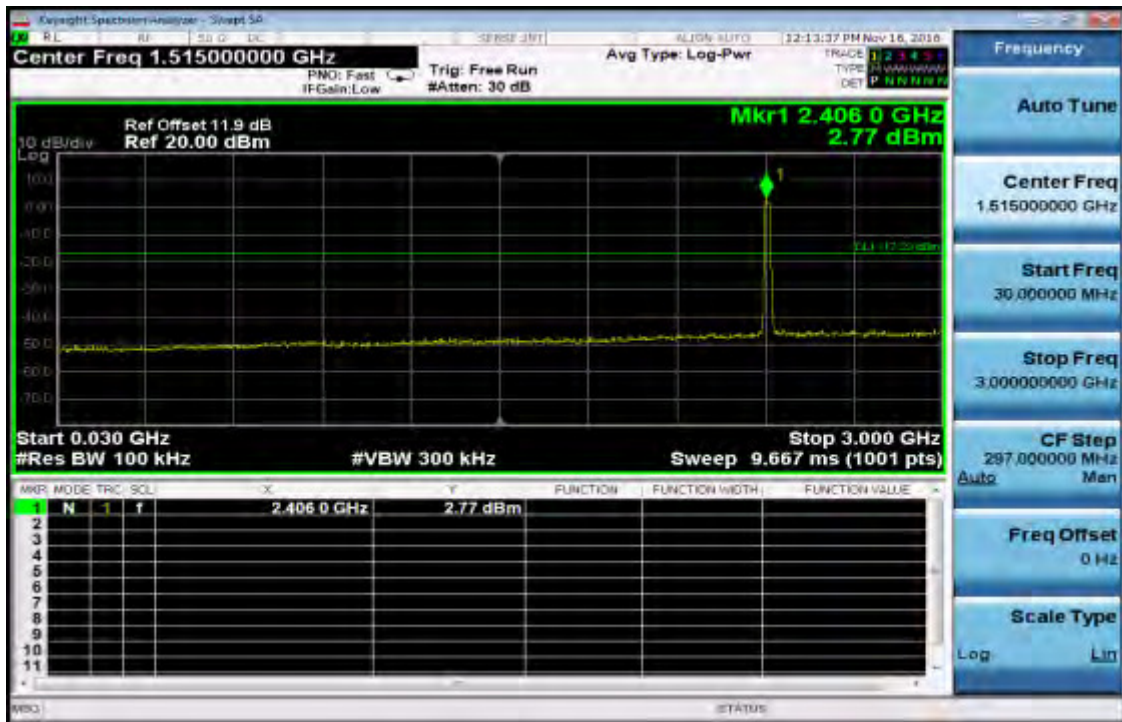
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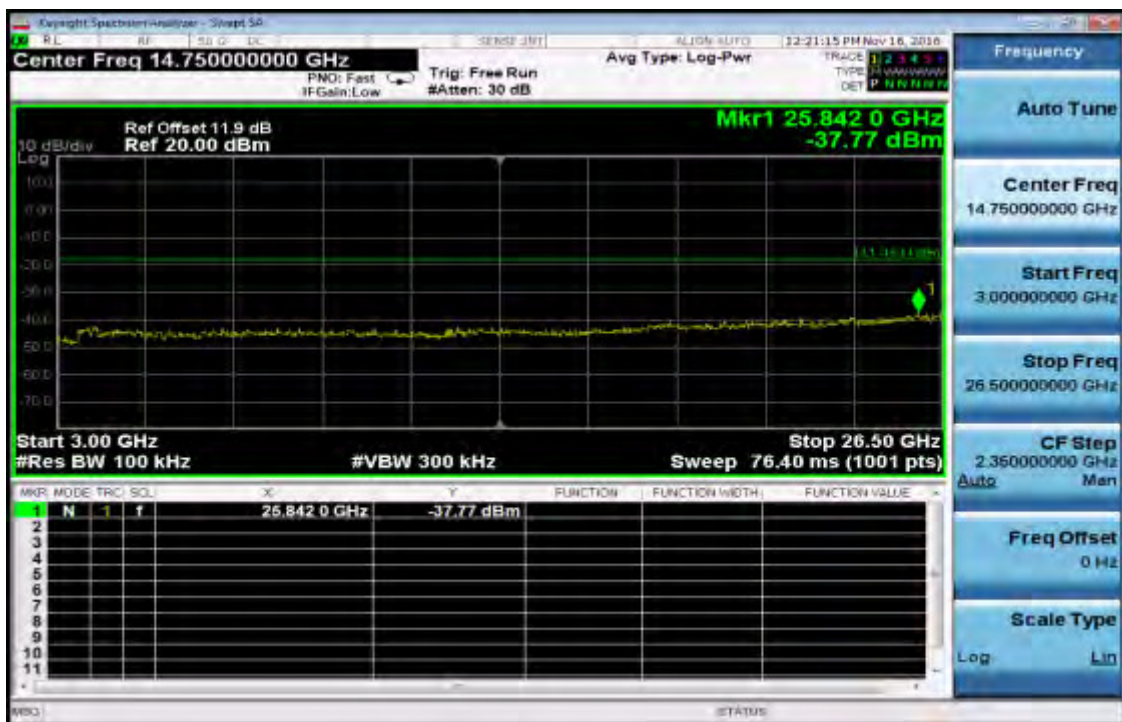
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Spurious Emission Test Data CH-Mid



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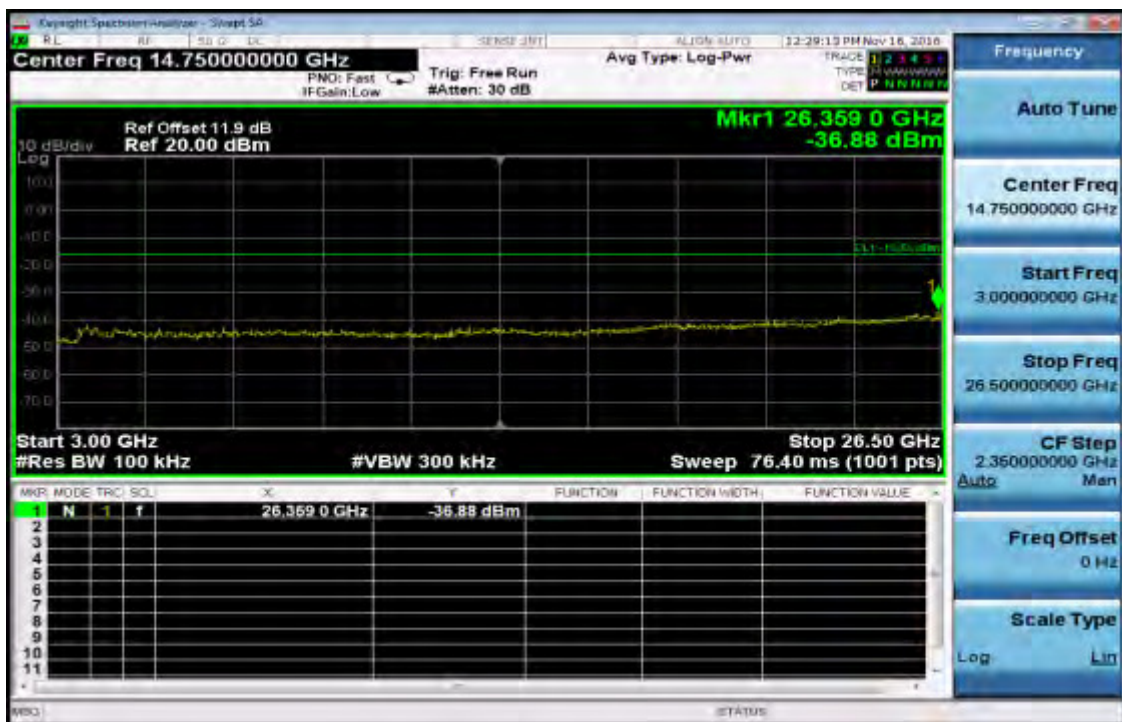
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Spurious Emission Test Data CH-High



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802.11n_HT20
Band Edges Test Data CH-Low



Band Edges Test Data CH-High

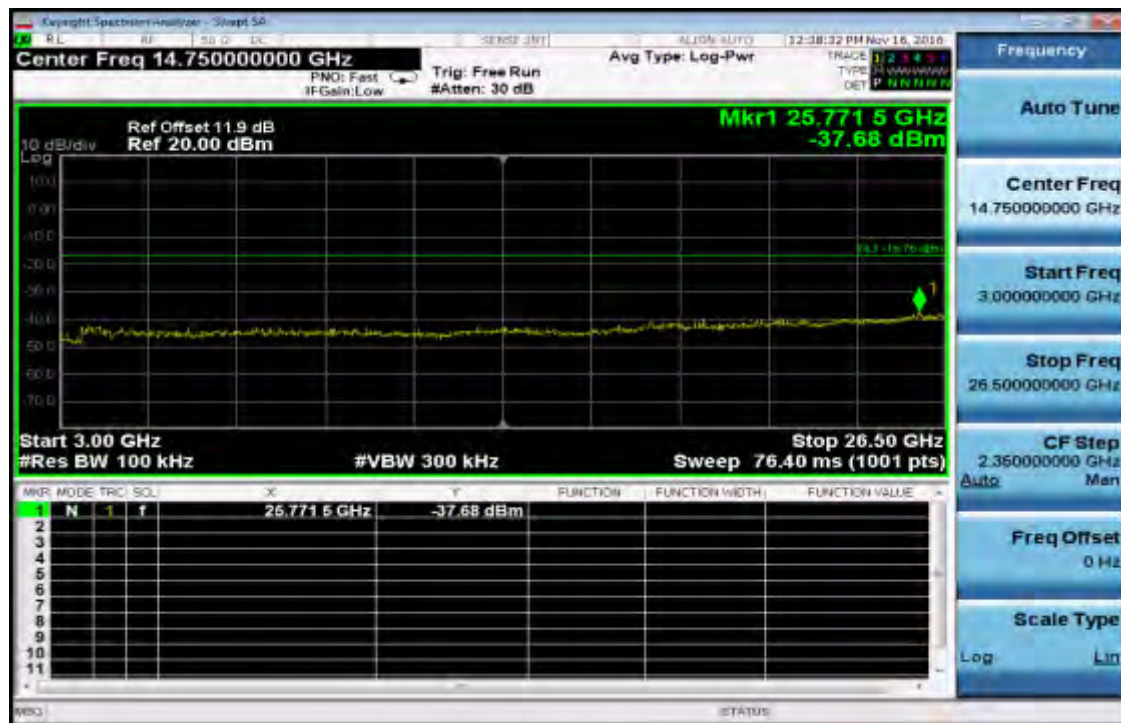
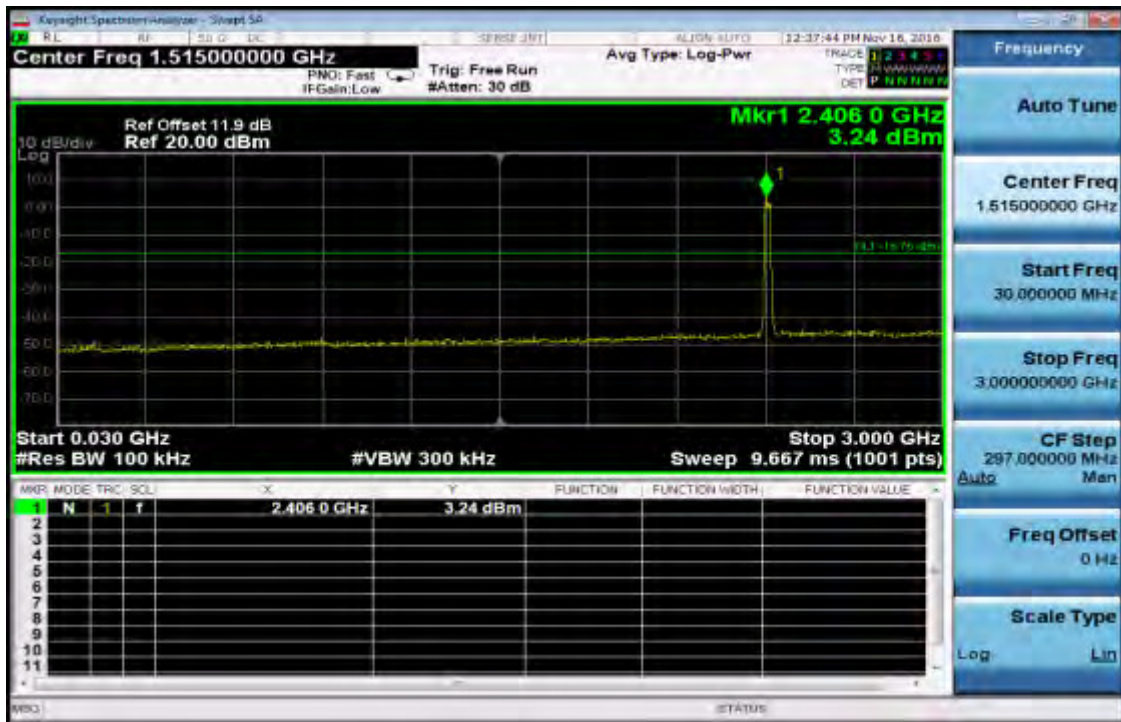


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802.11n_HT20
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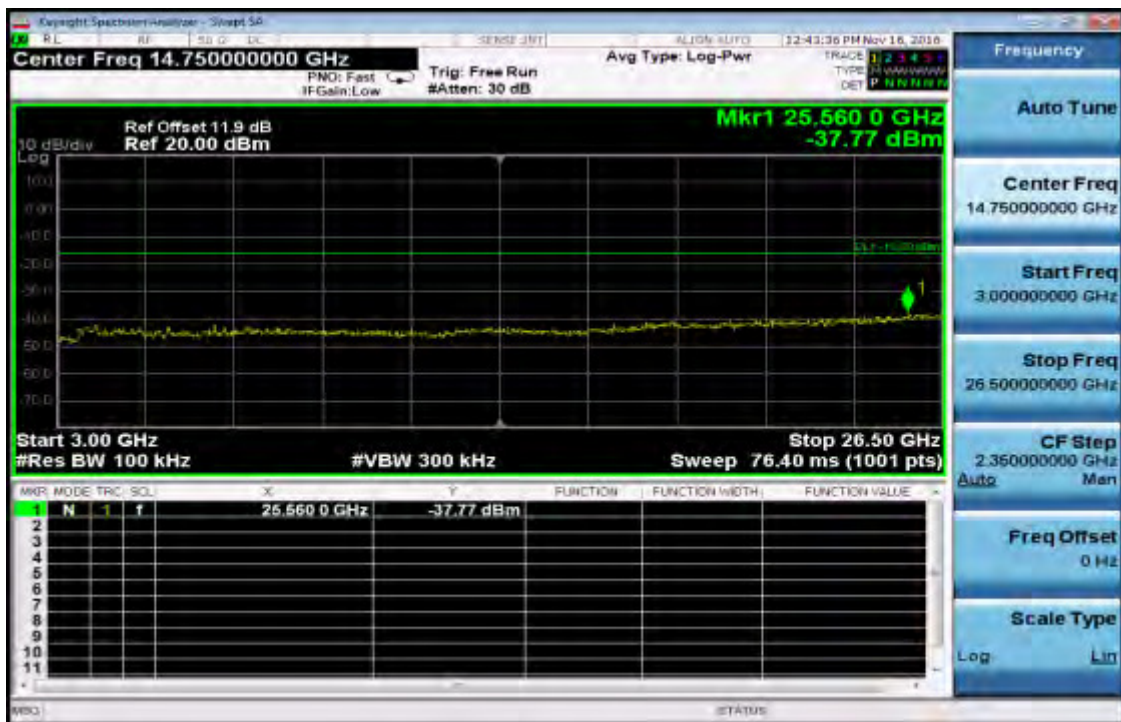
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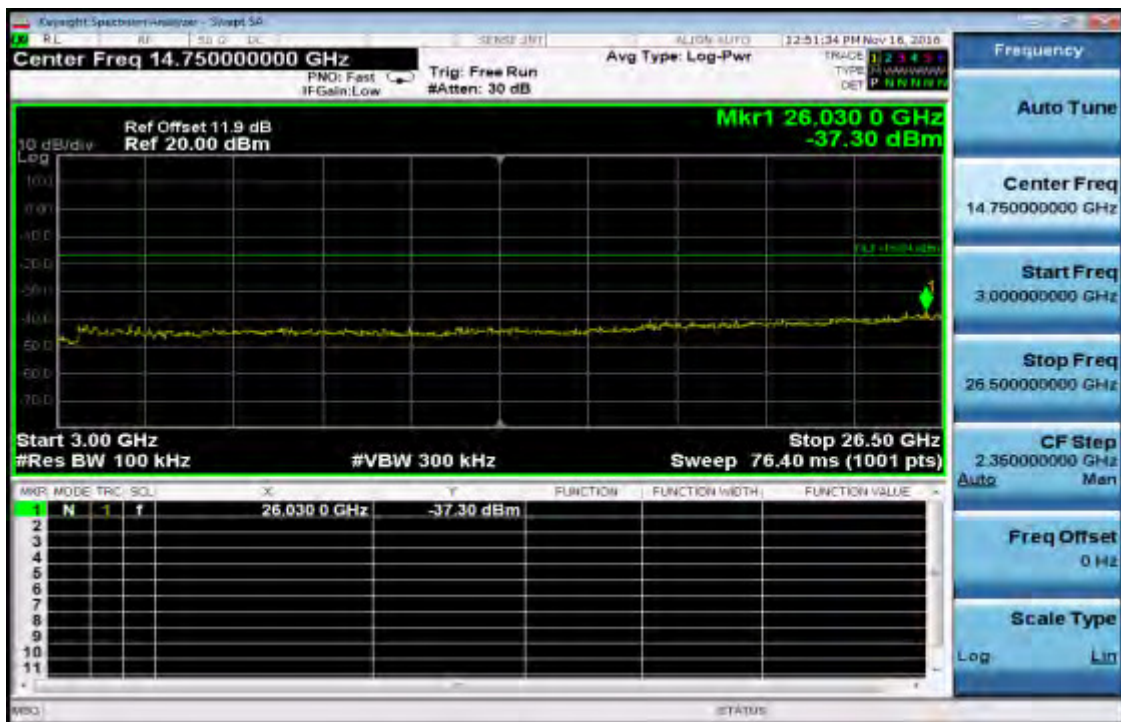
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Spurious Emission Test Data CH-High



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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 limit as below.

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

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

Note:

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

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11.2 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100760	05/10/2016	05/09/2017
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2016	01/28/2017
Loop Antenna	ETS-Lindgren	6502	143303	12/23/2015	12/22/2016
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/14/2015	12/13/2016
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/01/2016	07/31/2017
Pre-Amplifier	Agilent	8447D	2944A07676	01/02/2016	01/01/2017
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/02/2016	01/01/2017
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	60776	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2016	01/01/2017
3m Site NSA	SGS	966 chamber	N/A	07/01/2016	06/30/2017
Low Loss Cable	Huber Suhner	966 TX	1	01/02/2016	01/01/2017
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2015	12/11/2016
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/02/2016	01/01/2017

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

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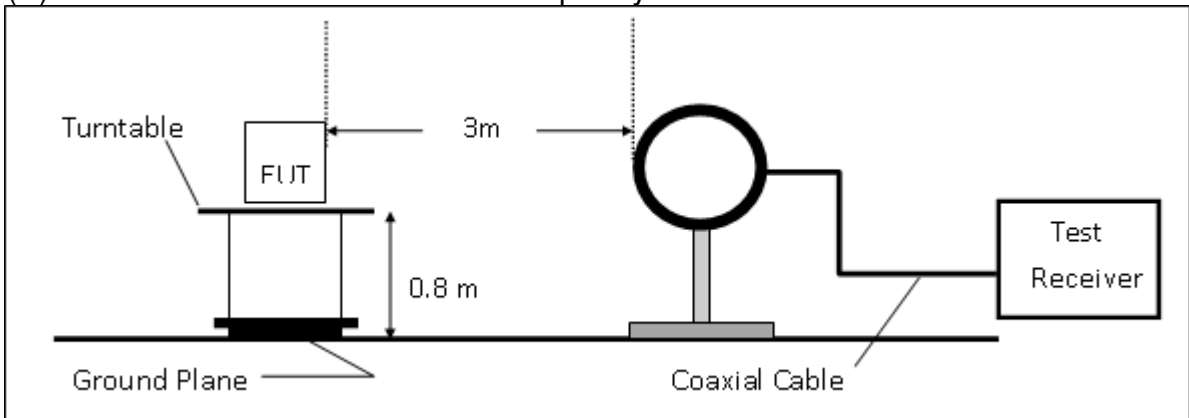
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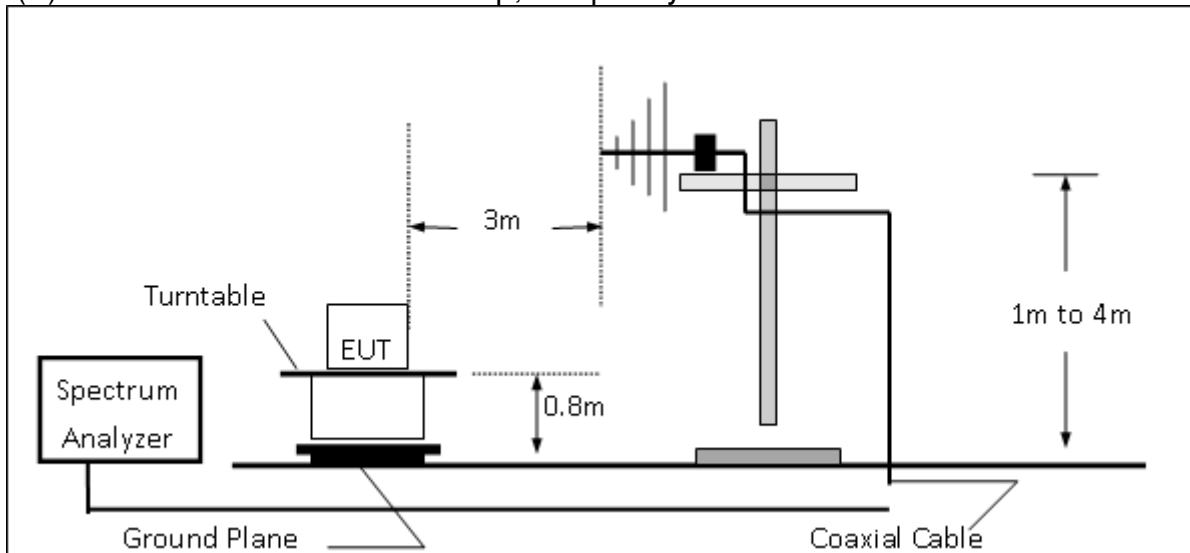
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11.3 Test SET-UP

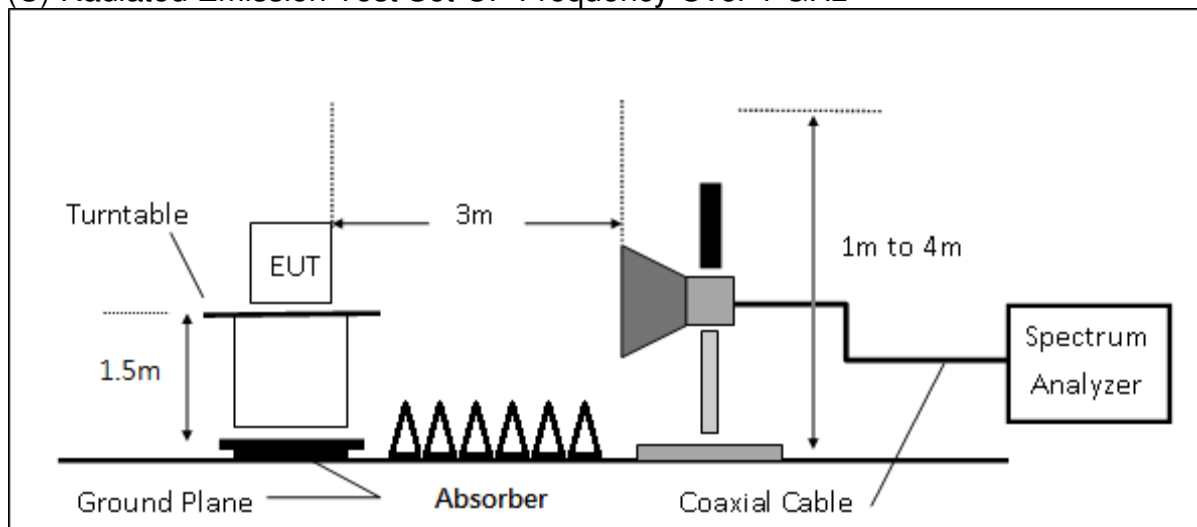
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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11.4 Measurement Procedure

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

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11.5 Field Strength Calculation

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

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

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

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

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

Note :

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

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

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

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

11.7 Measurement Result

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

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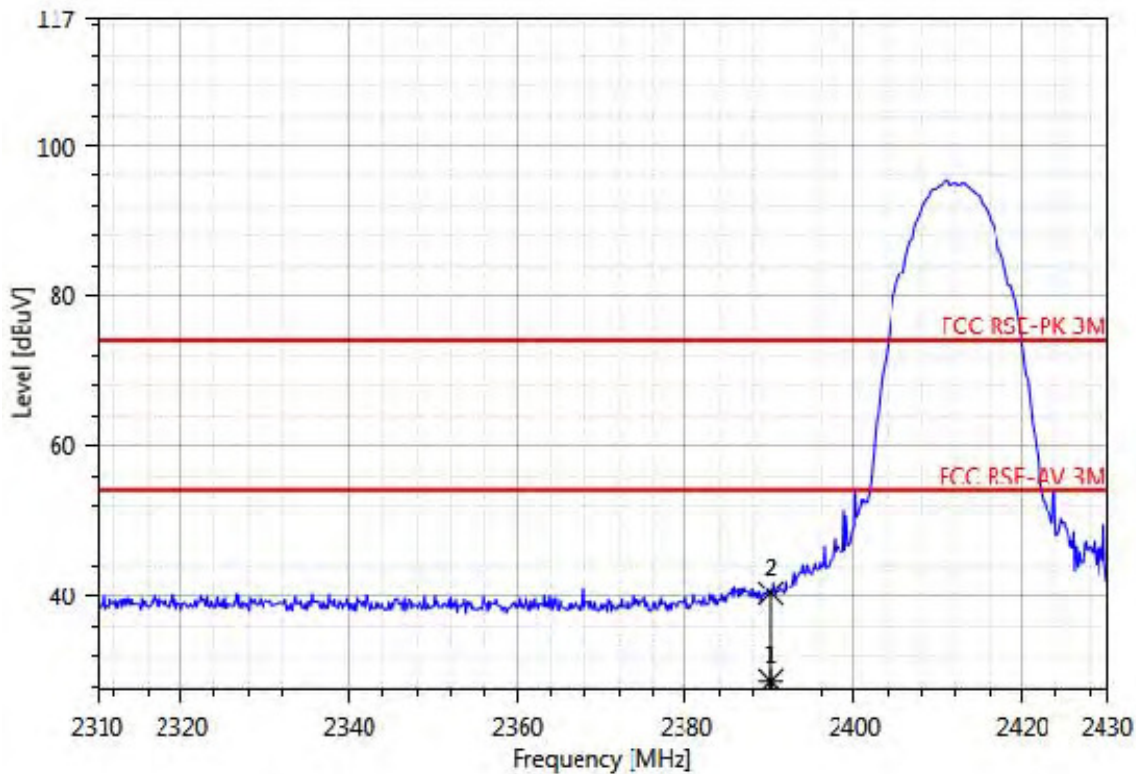
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Radiated Band Edge Measurement Result (802.11b)

Operation Mode :	802.11b	Test Date :	11/22/2016
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



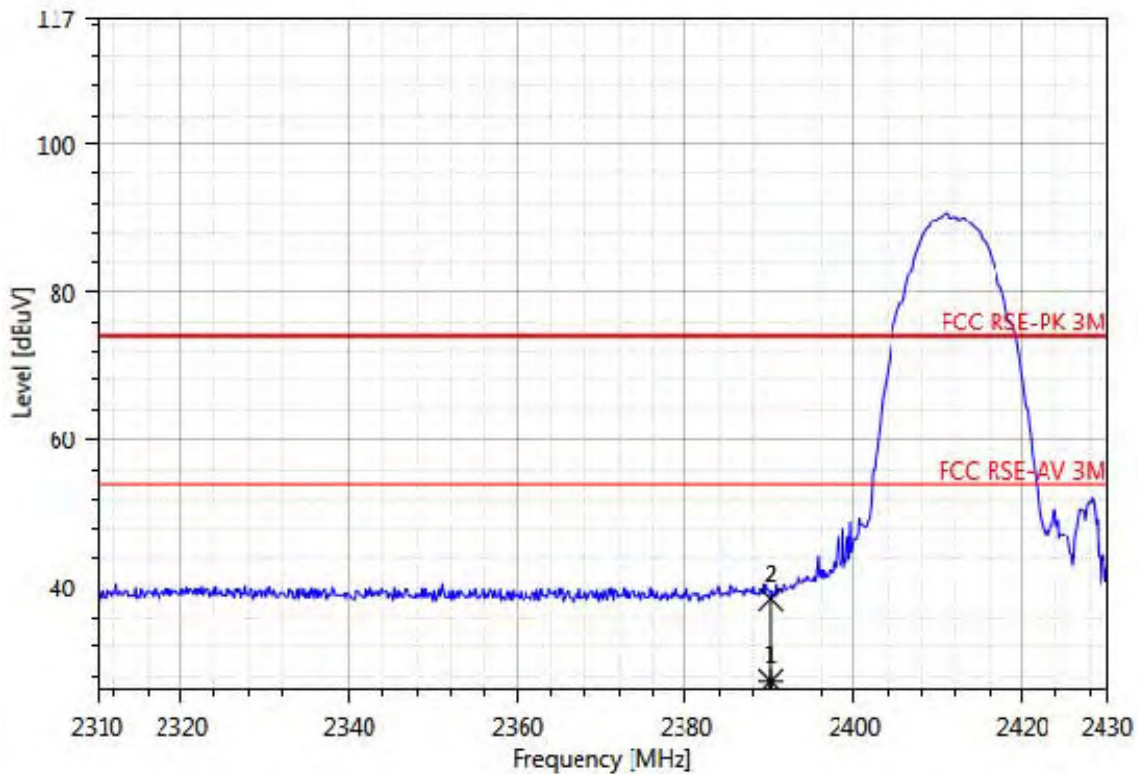
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
2390.00	E	Average	28.64	30.39	-1.74	54.00	-25.36
2390.00	E	Peak	40.32	42.07	-1.74	74.00	-33.68

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Operation Mode : 802.11b Test Date : 11/22/2016
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
2390.00	E	Average	27.45	29.19	-1.74	54.00	-26.55
2390.00	E	Peak	38.47	40.21	-1.74	74.00	-35.53

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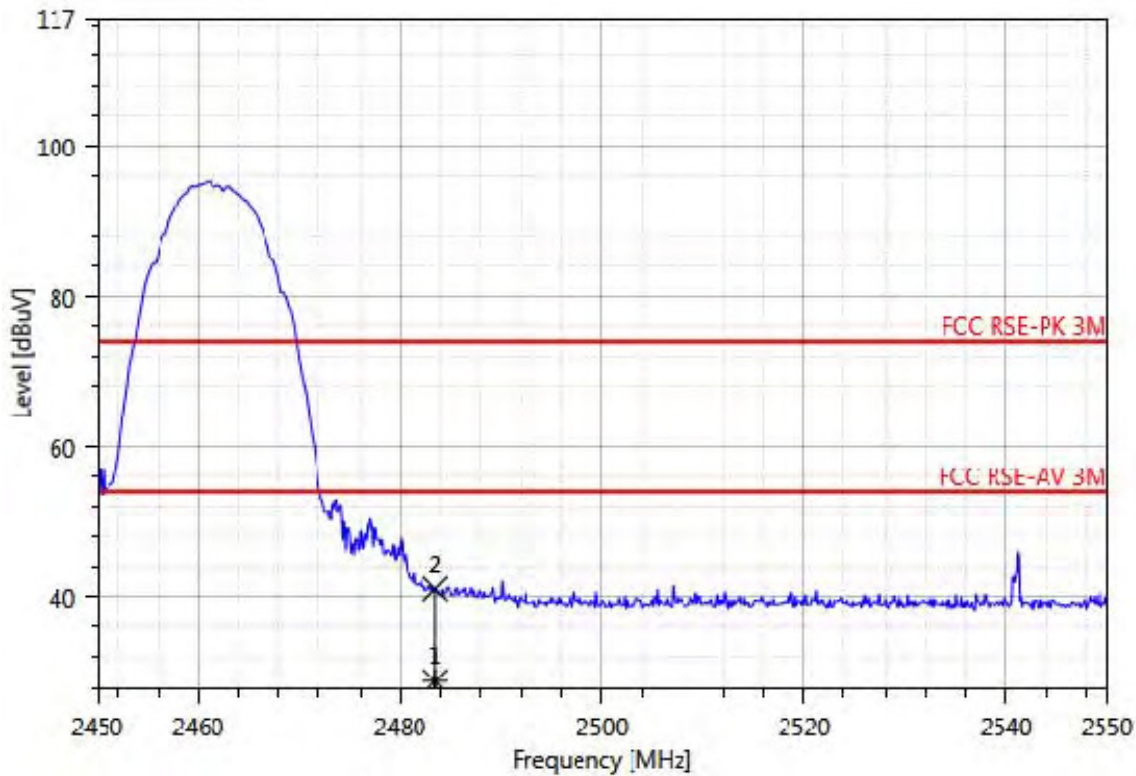
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Operation Mode : 802.11b Test Date : 11/22/2016
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Tin
 EUT Pol. : E1 Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
2483.50	E	Average	28.76	30.38	-1.62	54.00	-25.24
2483.50	E	Peak	41.02	42.63	-1.62	74.00	-32.98

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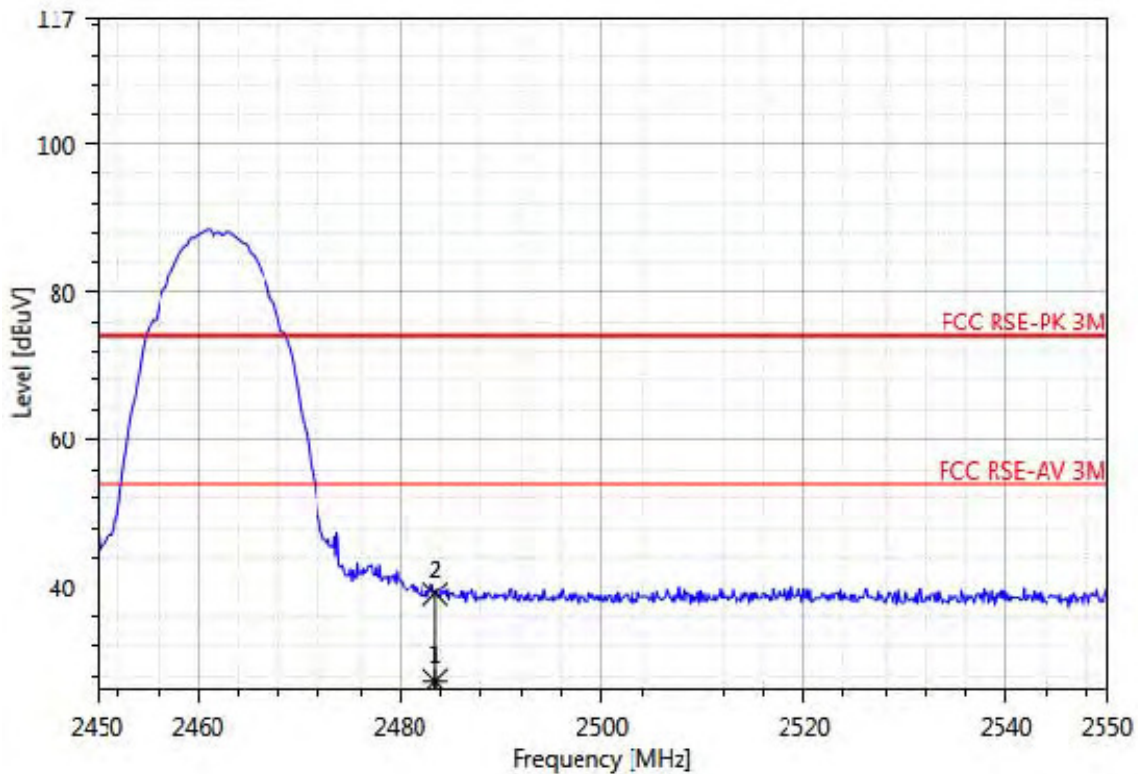
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Operation Mode : 802.11b Test Date : 11/22/2016
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Tin
 EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



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
2483.50	E	Average	27.40	29.02	-1.62	54.00	-26.60
2483.50	E	Peak	39.15	40.77	-1.62	74.00	-34.85

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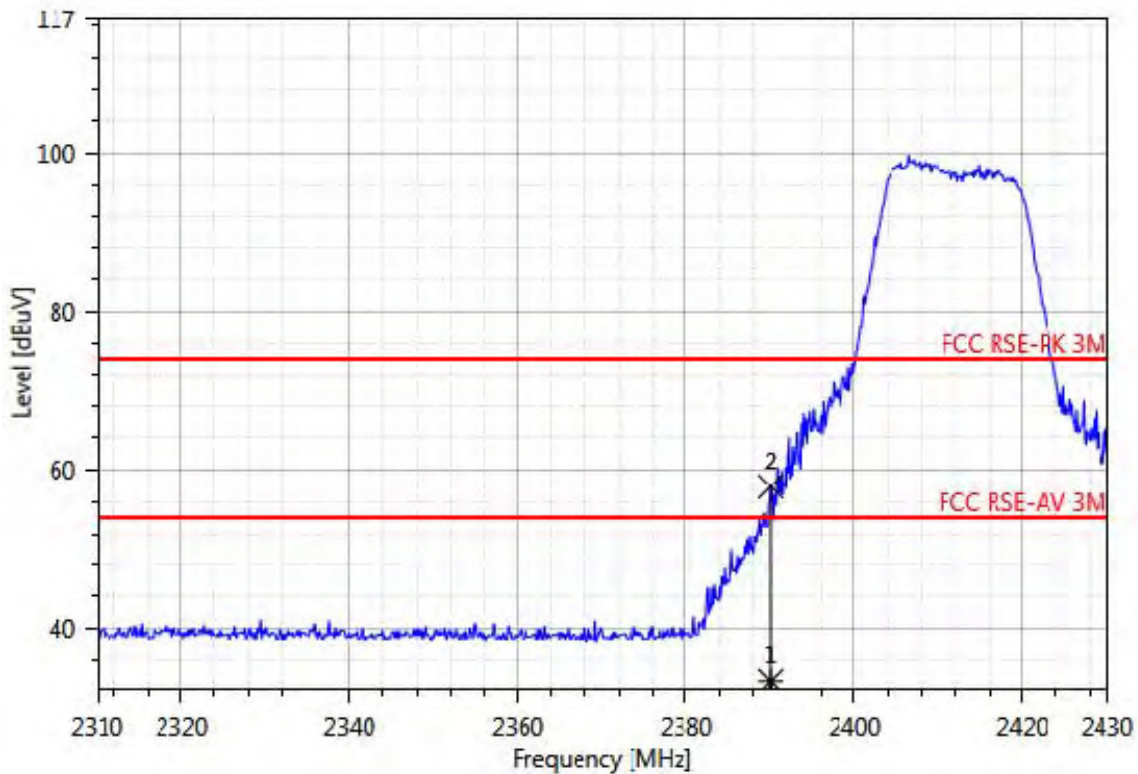
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Radiated Band Edge Measurement Result (802.11g)

Operation Mode :	802.11g	Test Date :	11/22/2016
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
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
2390.00	E	Average	33.36	35.11	-1.74	54.00	-20.64
2390.00	E	Peak	57.89	59.64	-1.74	74.00	-16.11

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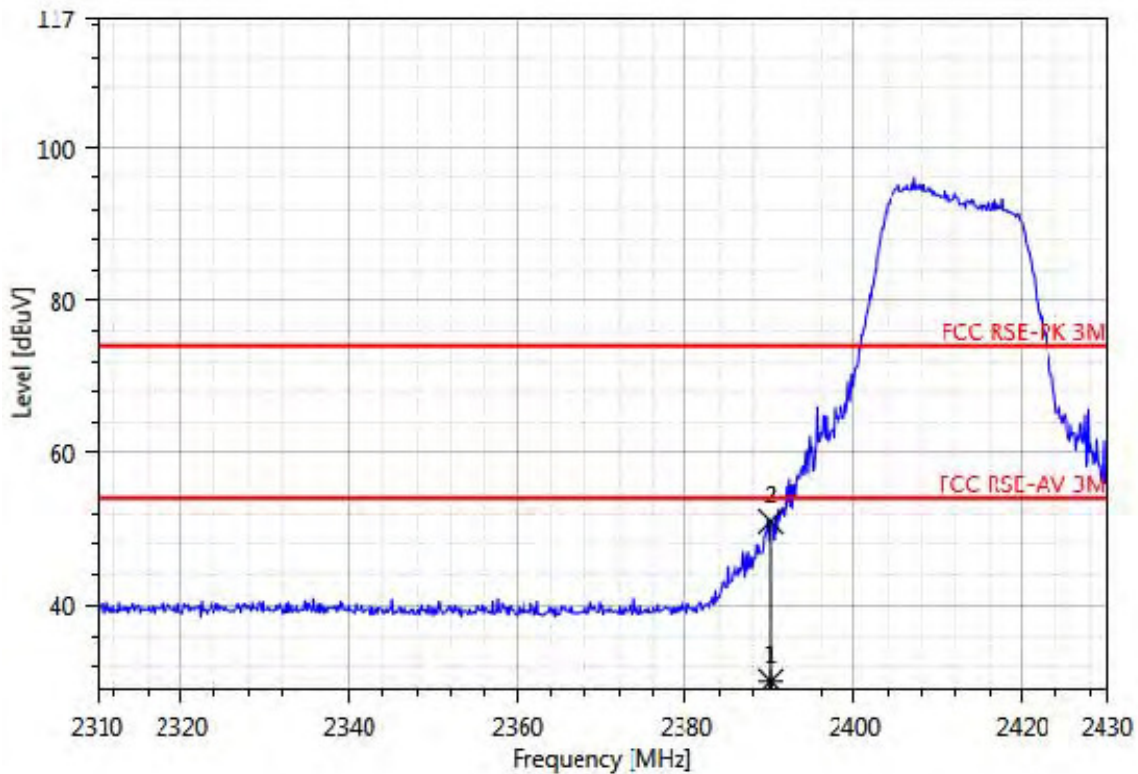
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Operation Mode : 802.11g Test Date : 11/22/2016
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



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
2390.00	E	Average	30.11	31.85	-1.74	54.00	-23.89
2390.00	E	Peak	51.08	52.82	-1.74	74.00	-22.92

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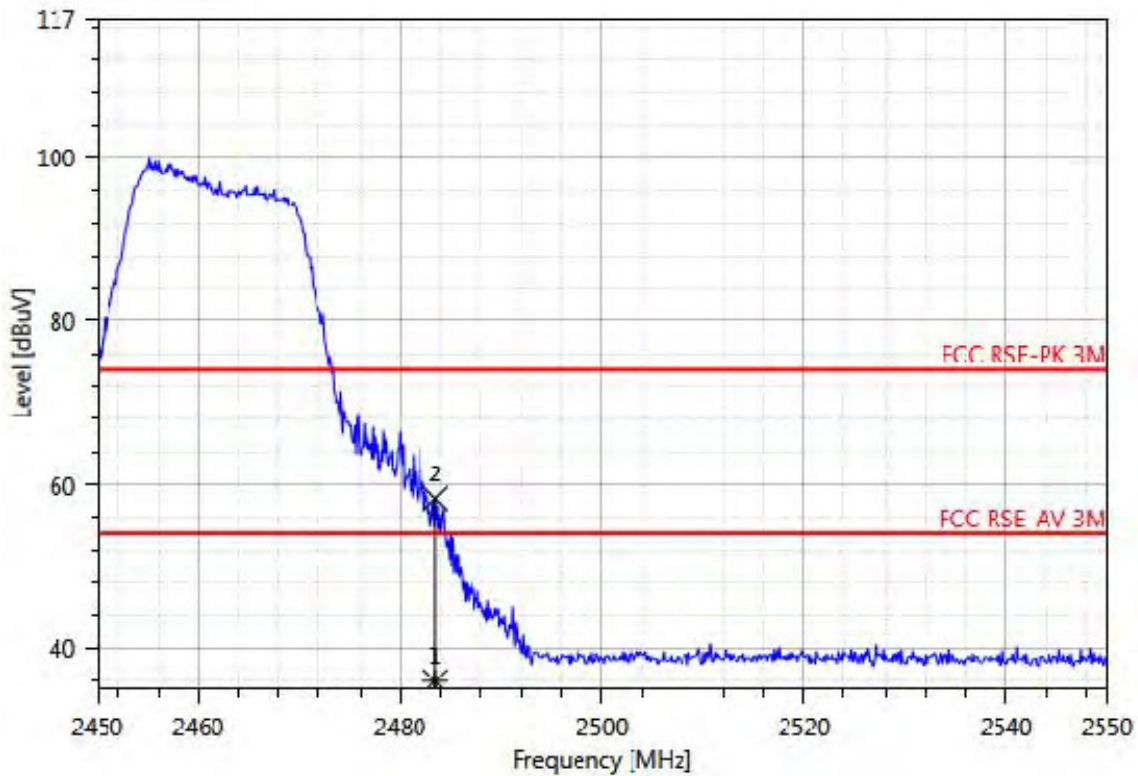
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Operation Mode : 802.11g Test Date : 11/22/2016
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Tin
 EUT Pol. : E1 Plane Measurement Antenna Pol. : VERTICAL



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
2483.50	E	Average	35.96	37.58	-1.62	54.00	-18.04
2483.50	E	Peak	58.31	59.93	-1.62	74.00	-15.69

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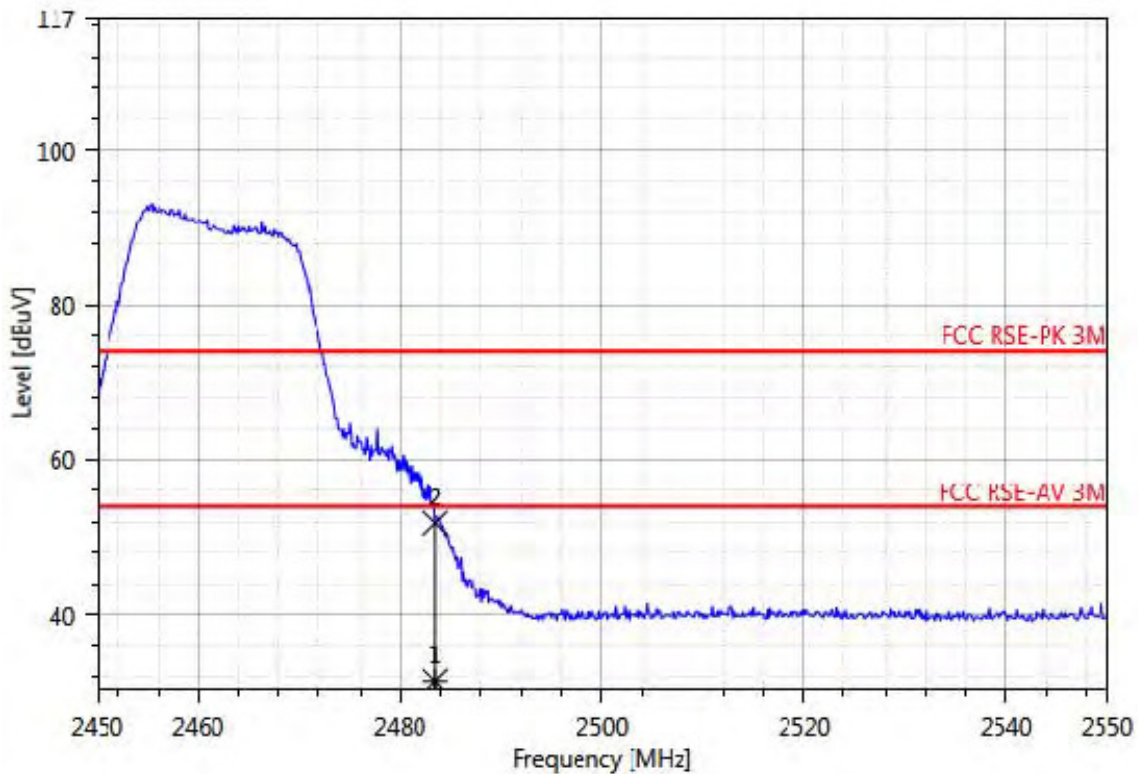
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Operation Mode : 802.11g Test Date : 11/22/2016
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Tin
 EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



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
2483.50	E	Average	31.47	33.09	-1.62	54.00	-22.53
2483.50	E	Peak	51.89	53.51	-1.62	74.00	-22.11

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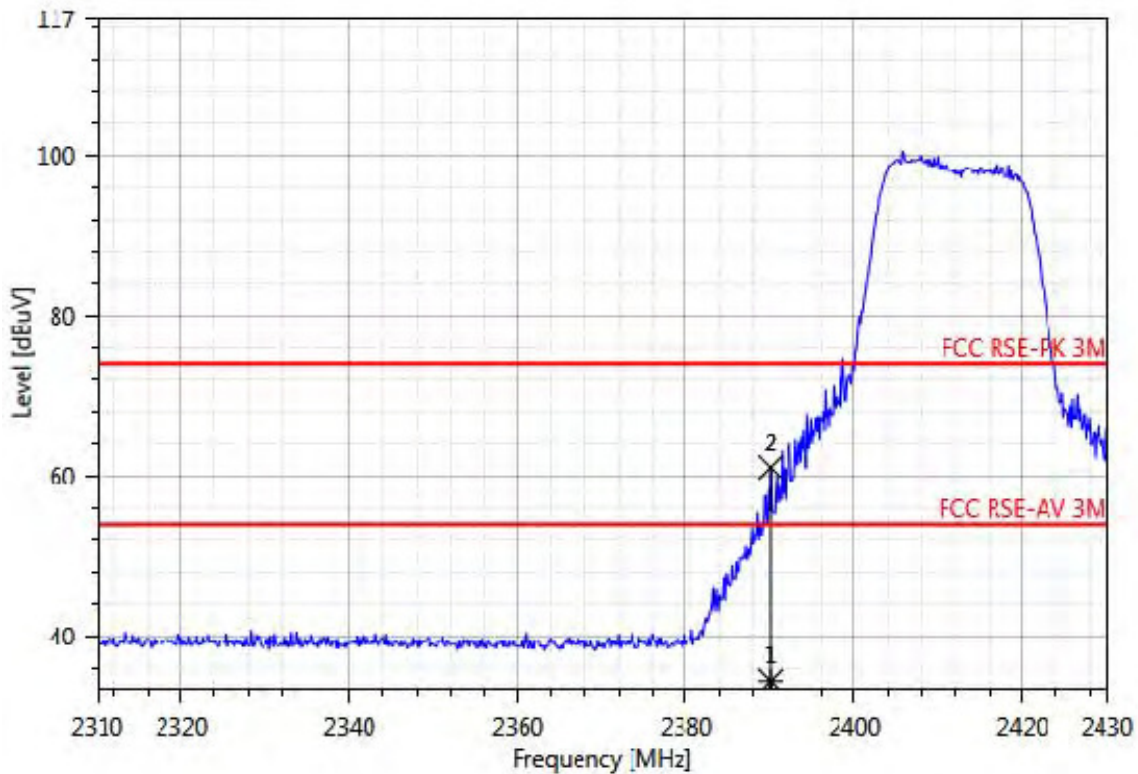
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Radiated Band Edge Measurement Result (802.11_HT20)

Operation Mode :	802.11 n20	Test Date :	11/22/2016
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Tin
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
2390.00	E	Average	34.43	36.18	-1.74	54.00	-19.57
2390.00	E	Peak	61.05	62.79	-1.74	74.00	-12.95

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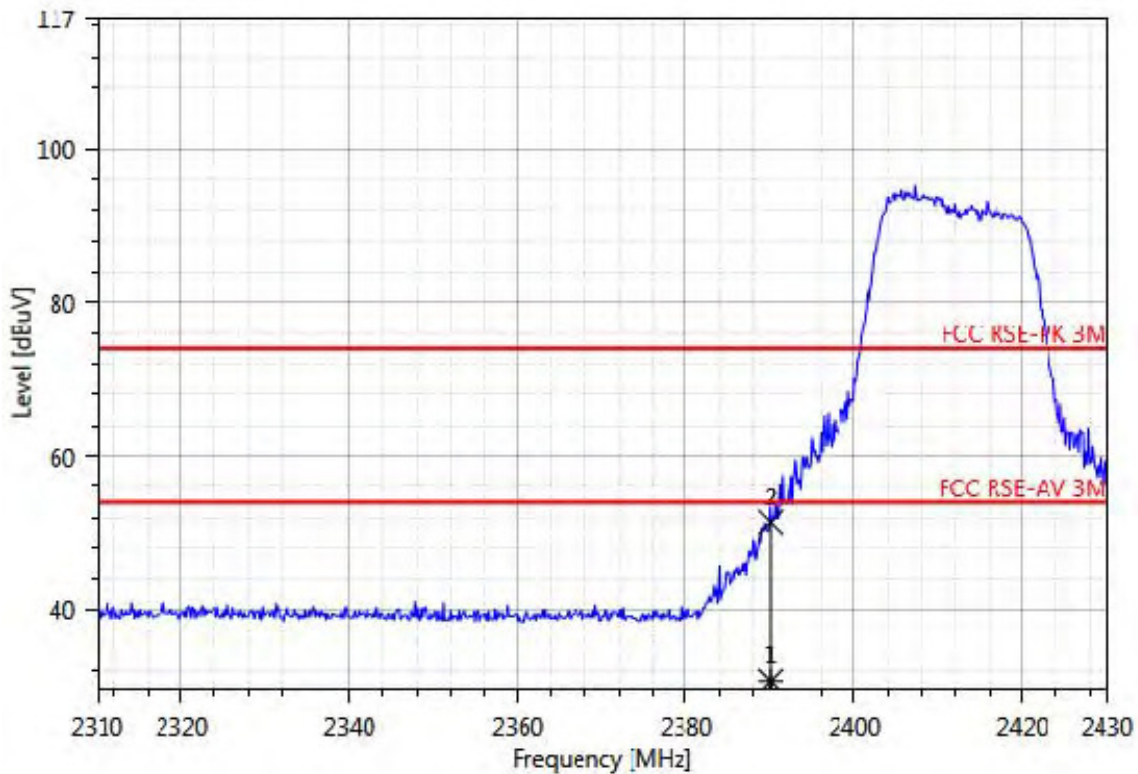
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Operation Mode : 802.11 n20 Test Date : 11/22/2016
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH LOW Test Engineer : Tin
 EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



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
2390.00	E	Average	30.76	32.50	-1.74	54.00	-23.24
2390.00	E	Peak	51.45	53.19	-1.74	74.00	-22.55

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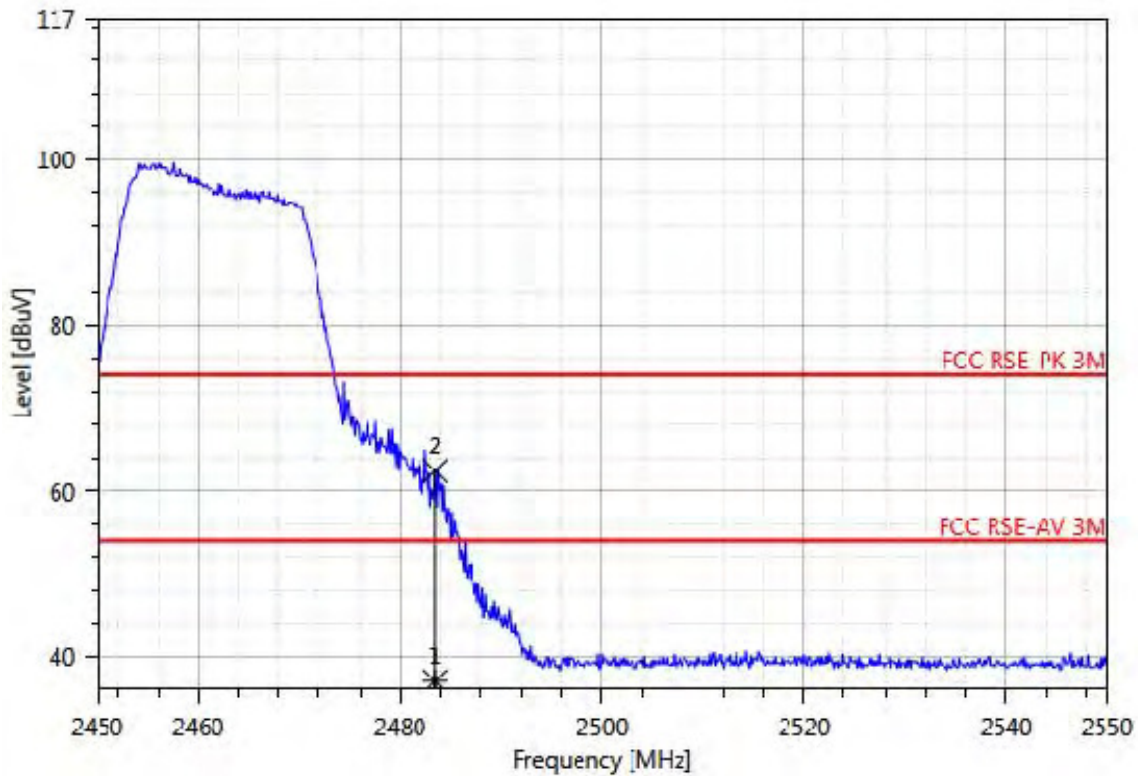
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Operation Mode : 802.11 n20 Test Date : 11/22/2016
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Tin
 EUT Pol. : E1 Plane Measurement Antenna Pol. : VERTICAL



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
2483.50	E	Average	37.05	38.67	-1.62	54.00	-16.95
2483.50	E	Peak	62.44	64.06	-1.62	74.00	-11.56

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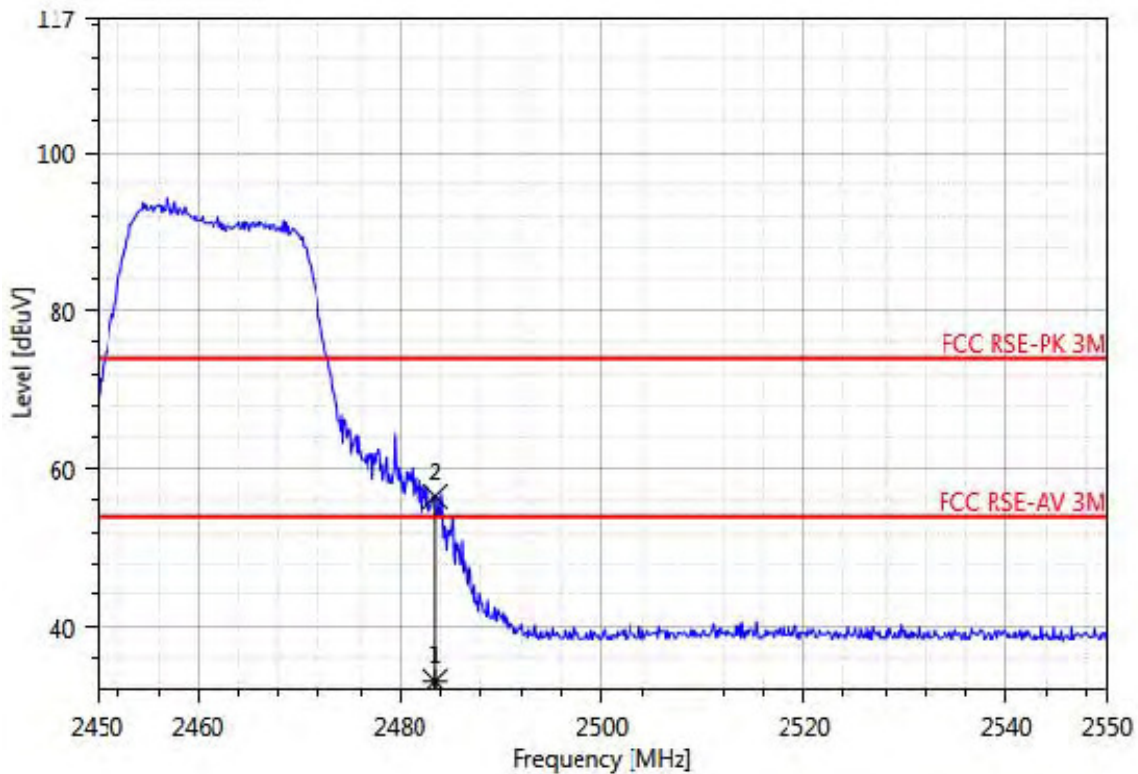
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Operation Mode : 802.11 n20 Test Date : 11/22/2016
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Bandedge CH HIGH Test Engineer : Tin
 EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



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
2483.50	E	Average	33.18	34.79	-1.62	54.00	-20.82
2483.50	E	Peak	56.43	58.05	-1.62	74.00	-17.57

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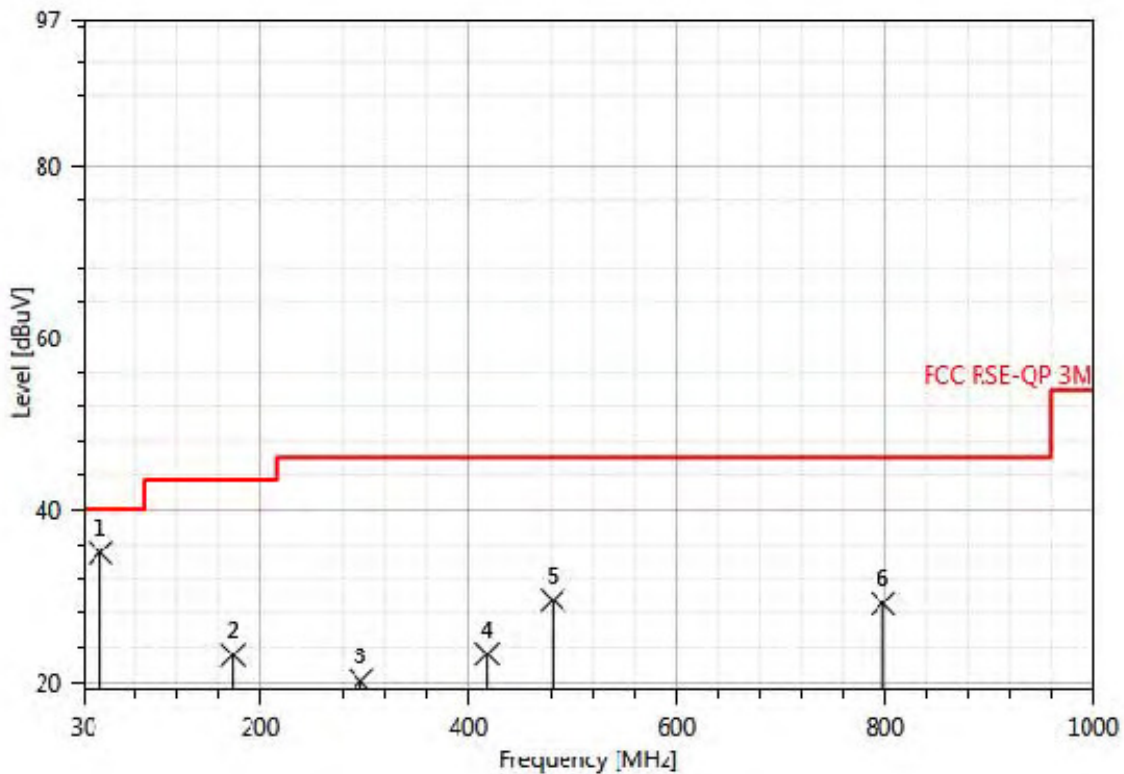
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Below 1GHz Worst-Case Data:

Radiated Spurious Emission Measurement Result (802.11 g)

Operation Mode :	802.11g	Test Date :	11/22/2016
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
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
46.49	S	Peak	35.01	42.91	-7.91	40.00	-4.99
173.56	S	Peak	23.13	31.09	-7.96	43.50	-20.37
296.75	S	Peak	20.08	26.06	-5.98	46.00	-25.92
418.00	S	Peak	23.25	26.63	-3.38	46.00	-22.75
481.05	S	Peak	29.49	31.86	-2.37	46.00	-16.51
798.24	S	Peak	29.11	26.00	3.11	46.00	-16.89

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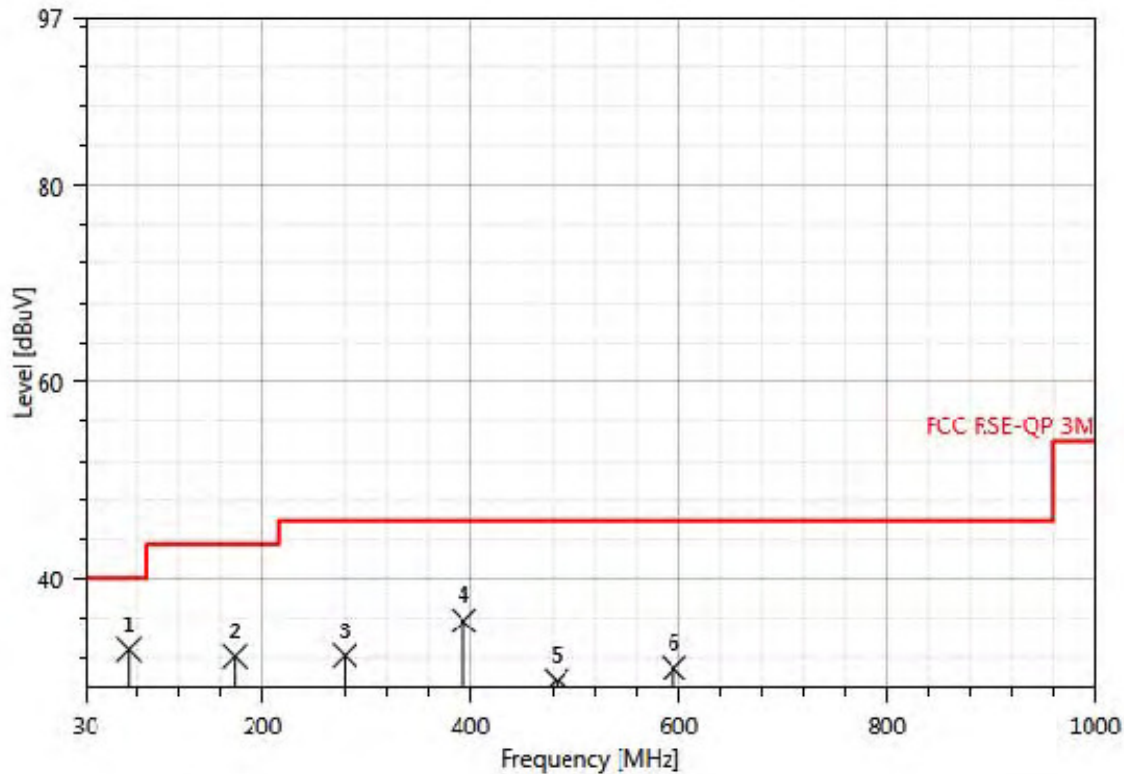
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Operation Mode :	802.11g	Test Date :	11/22/2016
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
71.71	S	Peak	32.81	43.43	-10.62	40.00	-7.19
173.56	S	Peak	32.14	40.10	-7.96	43.50	-11.36
279.29	S	Peak	32.24	38.66	-6.42	46.00	-13.76
393.75	S	Peak	35.75	39.92	-4.18	46.00	-10.25
482.99	S	Peak	29.70	32.18	-2.48	46.00	-16.30
595.51	S	Peak	30.96	30.92	0.04	46.00	-15.04

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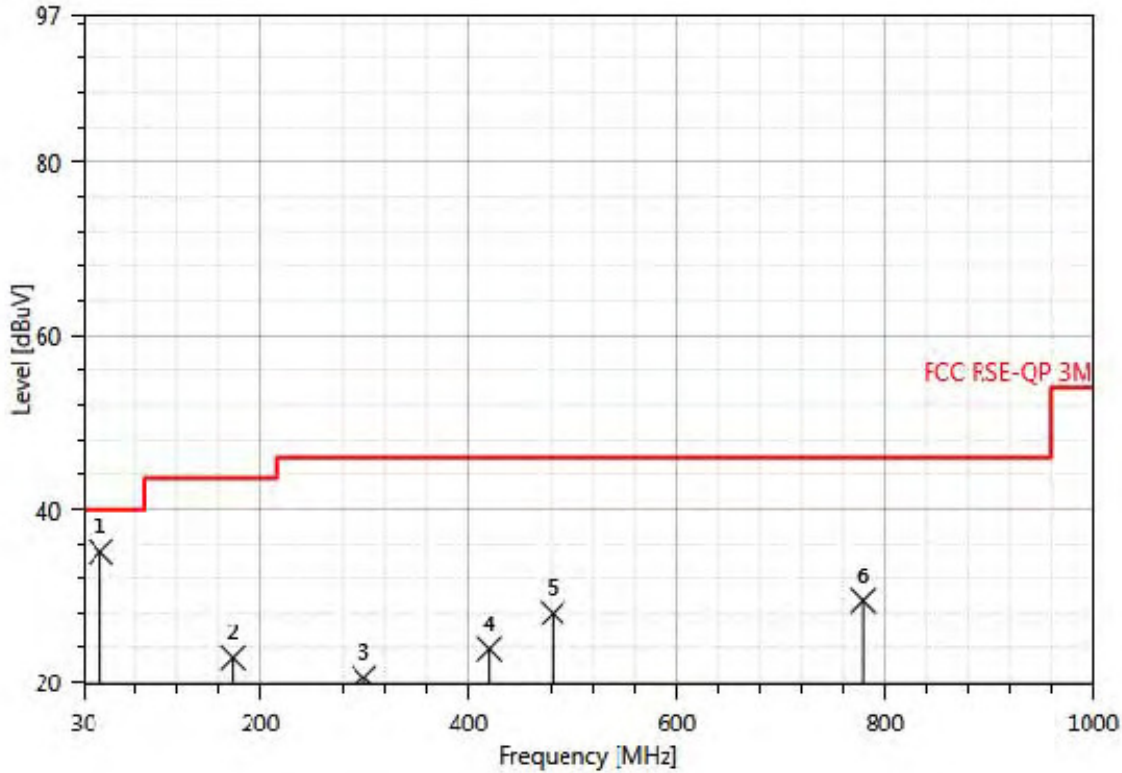
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Operation Mode :	802.11g	Test Date :	11/22/2016
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
46.49	S	Peak	35.10	43.00	-7.91	40.00	-4.90
173.56	S	Peak	22.89	30.85	-7.96	43.50	-20.61
299.66	S	Peak	20.61	26.53	-5.93	46.00	-25.39
419.94	S	Peak	23.87	27.25	-3.39	46.00	-22.13
481.05	S	Peak	28.03	30.40	-2.37	46.00	-17.97
778.84	S	Peak	29.46	26.98	2.48	46.00	-16.54

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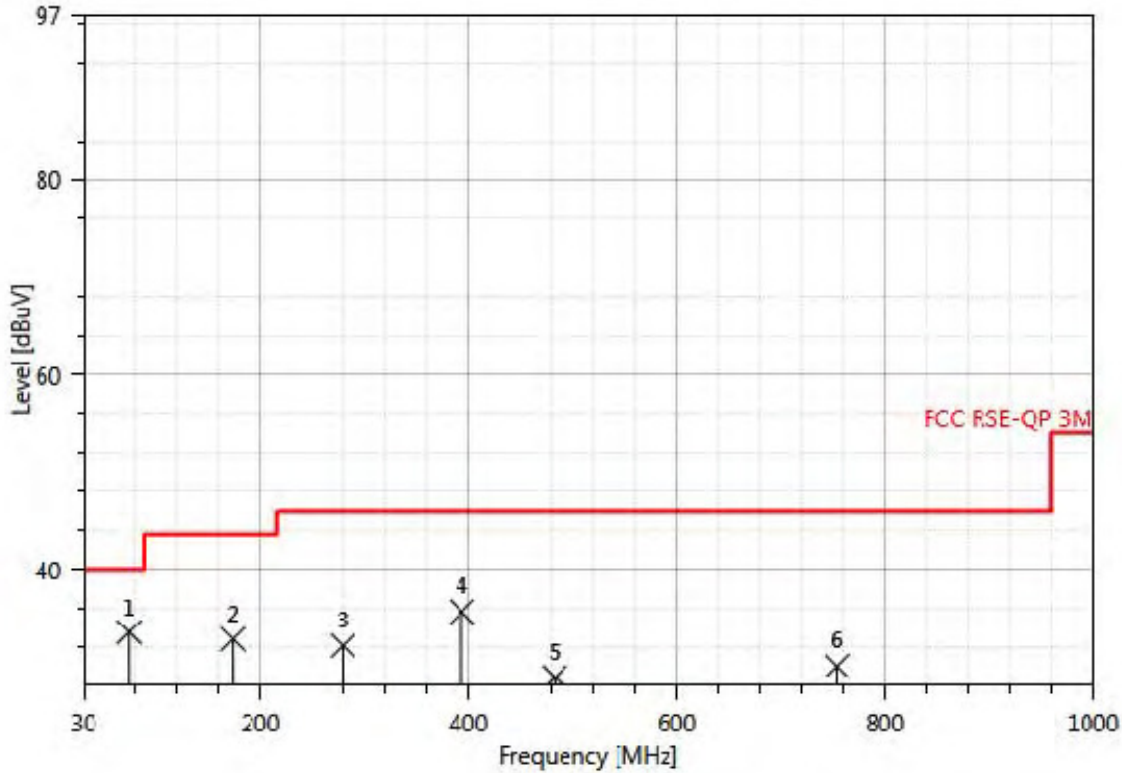
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Operation Mode :	802.11g	Test Date :	11/22/2016
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



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
73.65	S	Peak	33.51	44.53	-11.02	40.00	-6.49
173.56	S	Peak	32.79	40.75	-7.96	43.50	-10.71
279.29	S	Peak	32.12	38.53	-6.42	46.00	-13.88
393.75	S	Peak	35.61	39.79	-4.18	46.00	-10.39
482.99	S	Peak	28.86	31.33	-2.48	46.00	-17.14
754.59	S	Peak	30.03	27.32	2.70	46.00	-15.97

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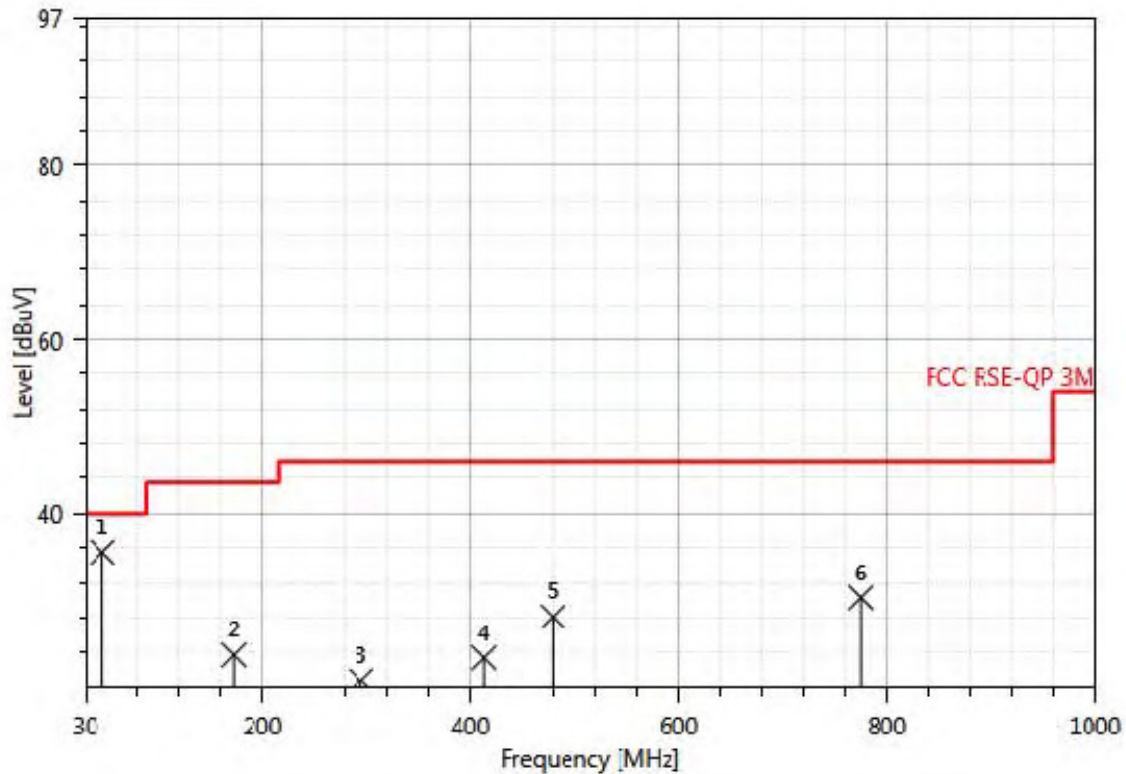
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Operation Mode :	802.11g	Test Date :	11/22/2016
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
46.49	S	Peak	35.51	43.41	-7.91	40.00	-4.49
172.59	S	Peak	23.72	31.58	-7.86	43.50	-19.78
294.81	S	Peak	20.78	26.80	-6.02	46.00	-25.22
413.15	S	Peak	23.41	26.80	-3.39	46.00	-22.59
479.11	S	Peak	28.09	30.49	-2.39	46.00	-17.91
774.96	S	Peak	30.28	27.52	2.76	46.00	-15.72

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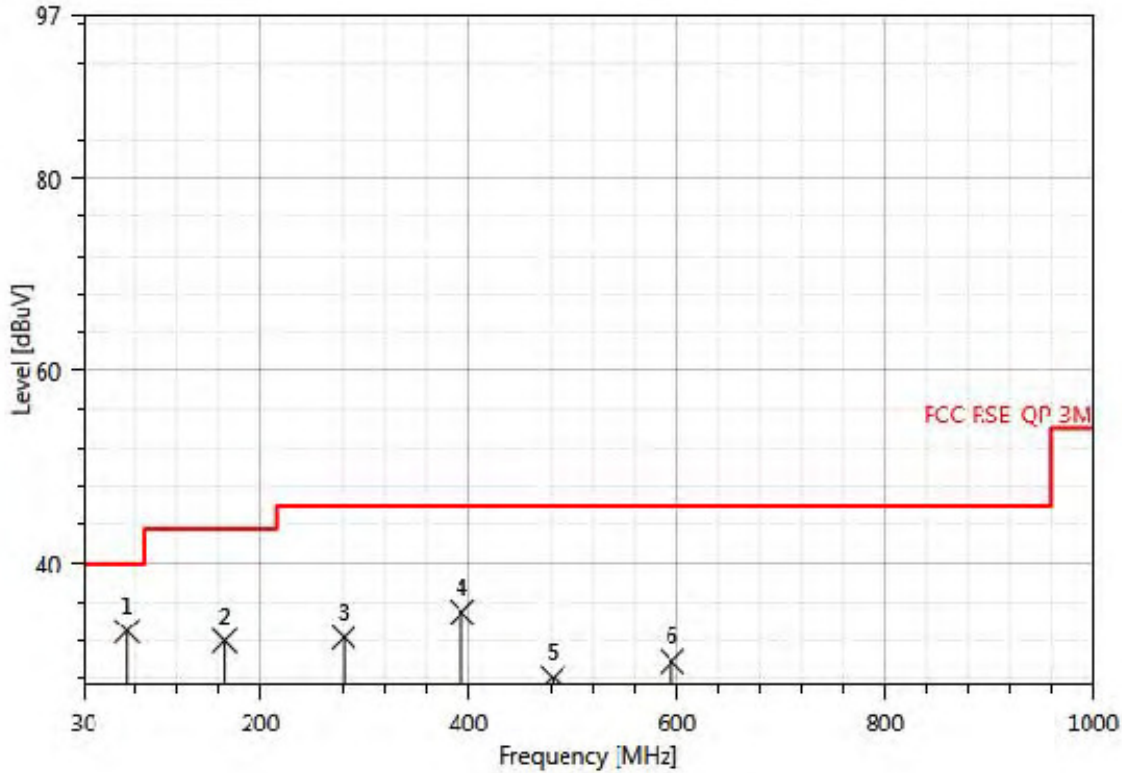
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Operation Mode : 802.11g Test Date : 11/22/2016
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Tx CH HIGH Test Engineer : Tin
 EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
71.71	S	Peak	32.96	43.58	-10.62	40.00	-7.04
165.80	S	Peak	31.95	39.35	-7.39	43.50	-11.55
280.26	S	Peak	32.28	38.63	-6.35	46.00	-13.72
393.75	S	Peak	34.95	39.12	-4.18	46.00	-11.05
481.05	S	Peak	28.16	30.53	-2.37	46.00	-17.84
595.51	S	Peak	29.85	29.81	0.04	46.00	-16.15

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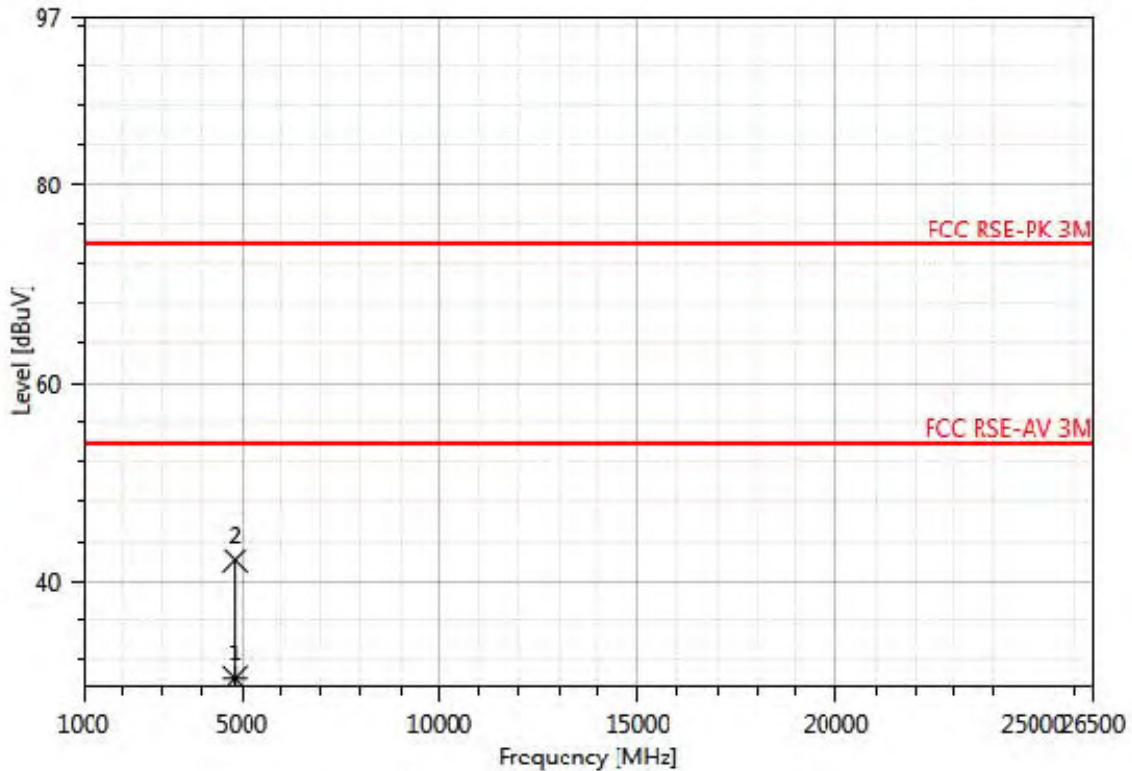
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Above 1GHz Data:

Radiated Spurious Emission Measurement Result (802.11 b)

Operation Mode :	802.11b	Test Date :	11/22/2016
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
4824.00	H	Average	30.17	25.23	4.94	54.00	-23.83
4824.00	H	Peak	42.07	37.12	4.94	74.00	-31.93

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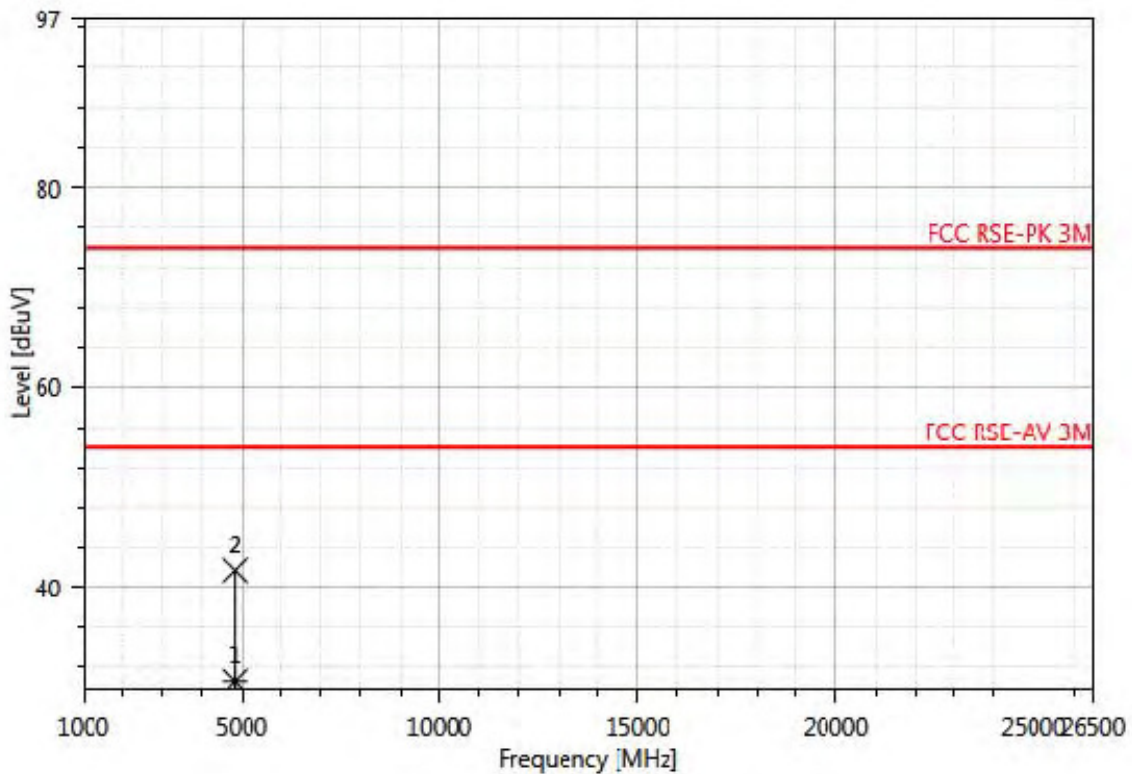
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Operation Mode :	802.11b	Test Date :	11/22/2016
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
4824.00	H	Average	30.62	25.68	4.94	54.00	-23.38
4824.00	H	Peak	41.72	36.77	4.94	74.00	-32.28

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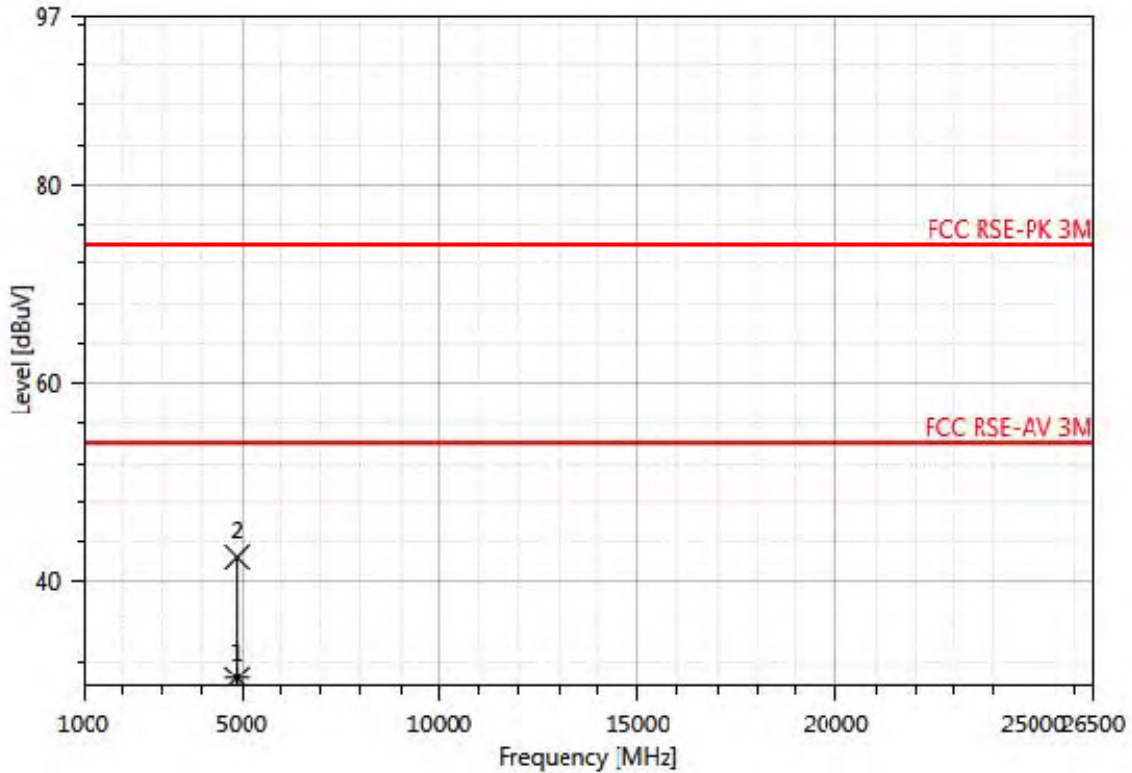
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Operation Mode :	802.11b	Test Date :	11/22/2016
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
4874.00	H	Average	30.27	25.14	5.13	54.00	-23.73
4874.00	H	Peak	42.51	37.38	5.13	74.00	-31.49

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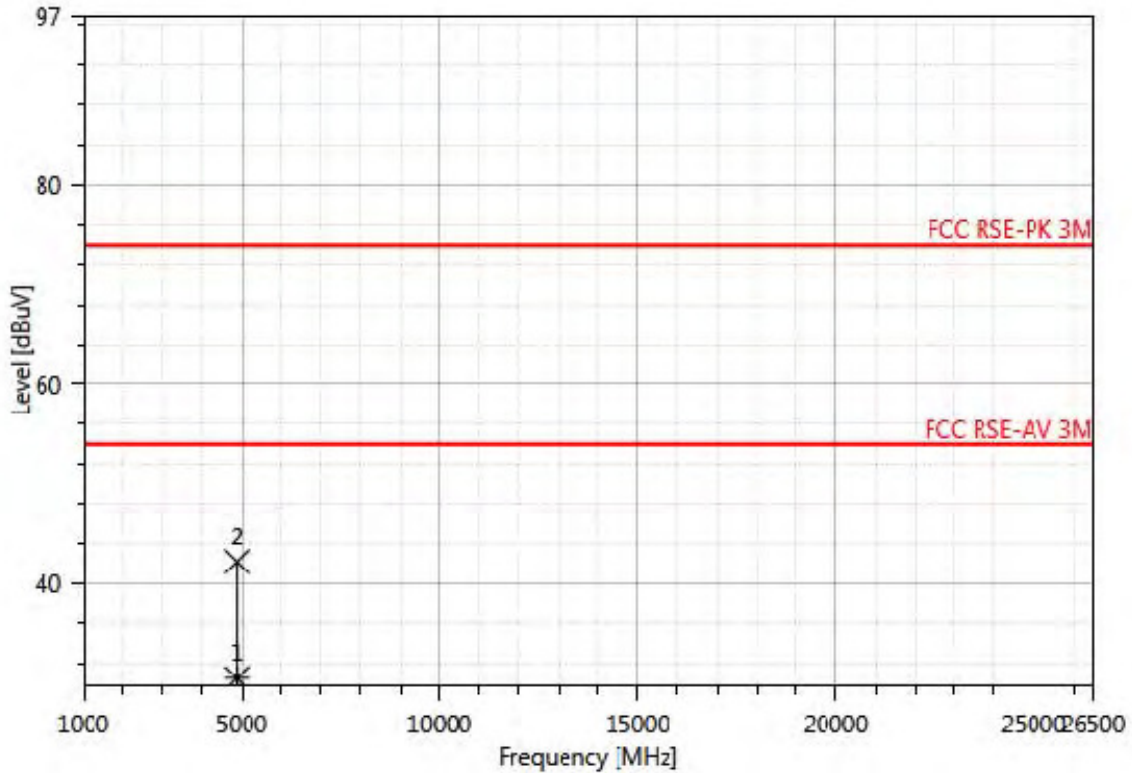
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Operation Mode :	802.11b	Test Date :	11/22/2016
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
4874.00	H	Average	30.47	25.34	5.13	54.00	-23.53
4874.00	H	Peak	42.19	37.06	5.13	74.00	-31.81

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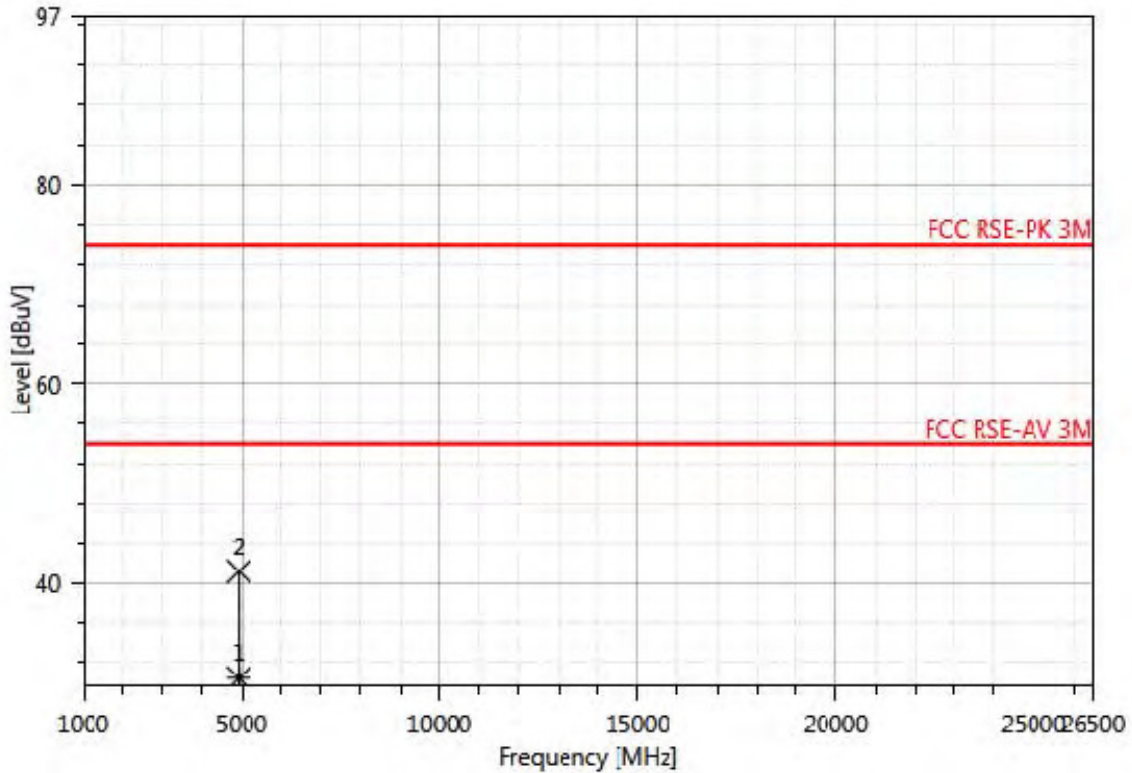
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Operation Mode :	802.11b	Test Date :	11/22/2016
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
4924.00	H	Average	30.44	25.19	5.25	54.00	-23.56
4924.00	H	Peak	41.19	35.93	5.25	74.00	-32.81

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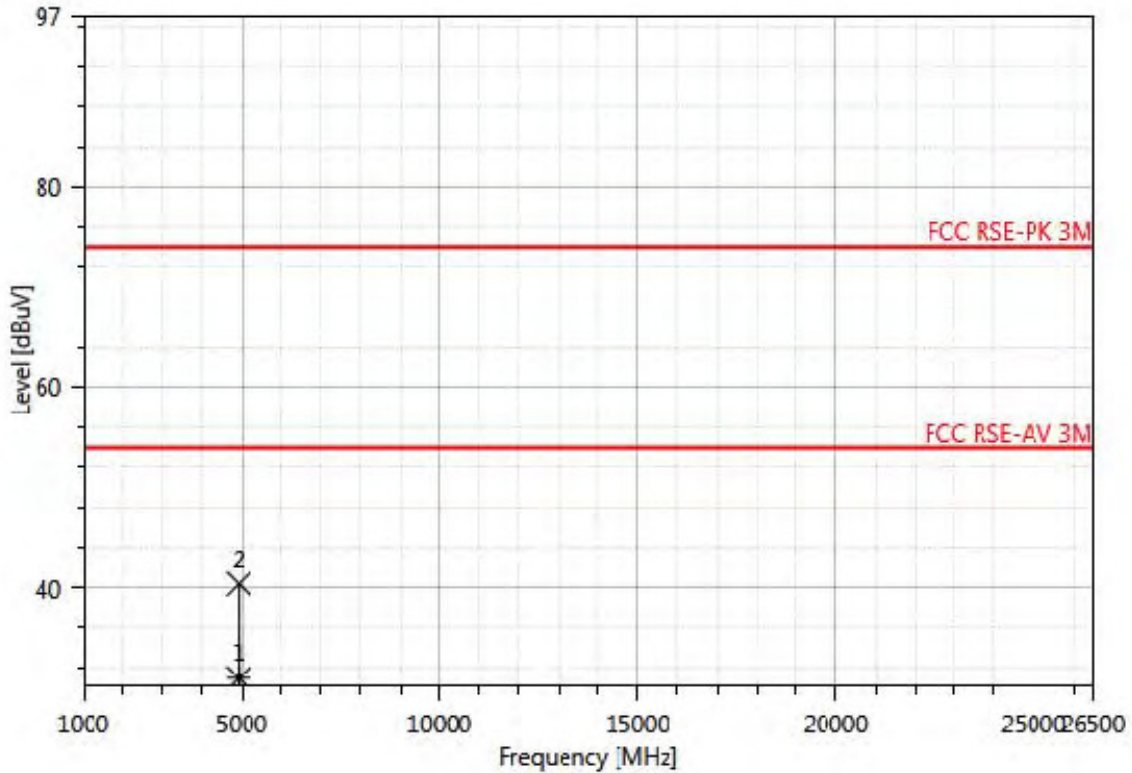
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Operation Mode :	802.11b	Test Date :	11/22/2016
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
4924.00	H	Average	31.02	25.77	5.25	54.00	-22.98
4924.00	H	Peak	40.40	35.15	5.25	74.00	-33.60

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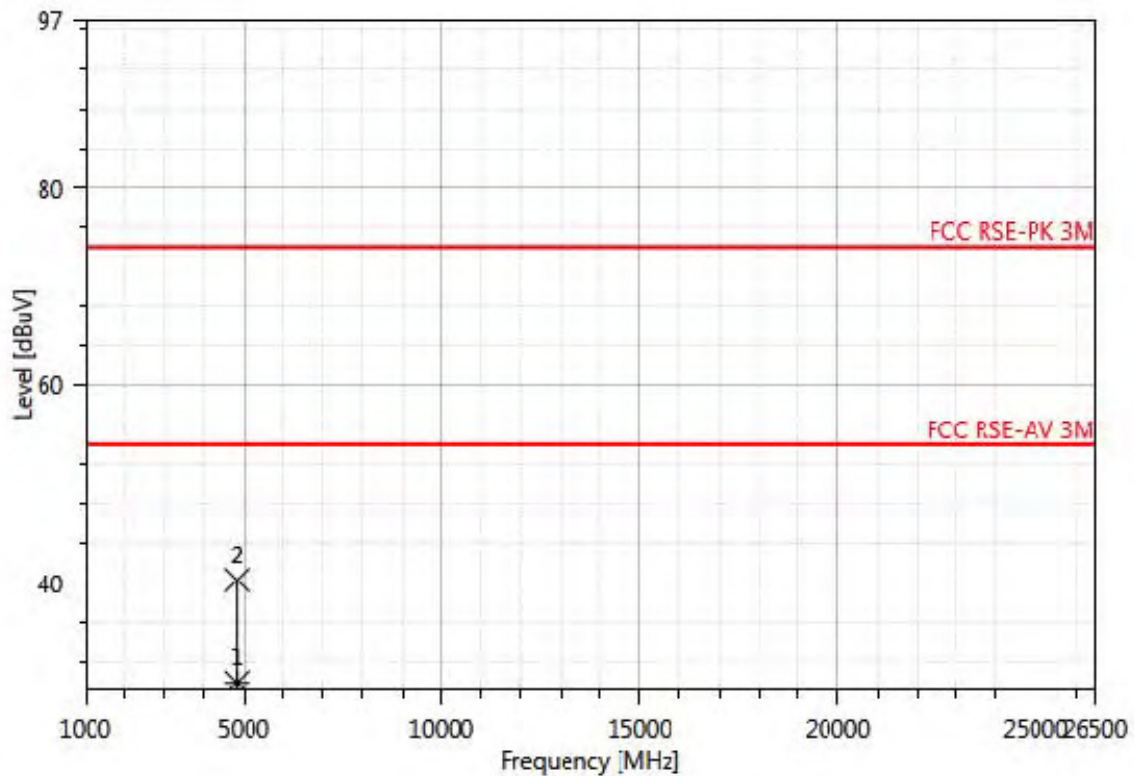
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Radiated Spurious Emission Measurement Result (802.11 g)

Operation Mode :	802.11g	Test Date :	11/22/2016
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
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
4824.00	H	Average	29.89	24.95	4.94	54.00	-24.11
4824.00	H	Peak	40.27	35.33	4.94	74.00	-33.73

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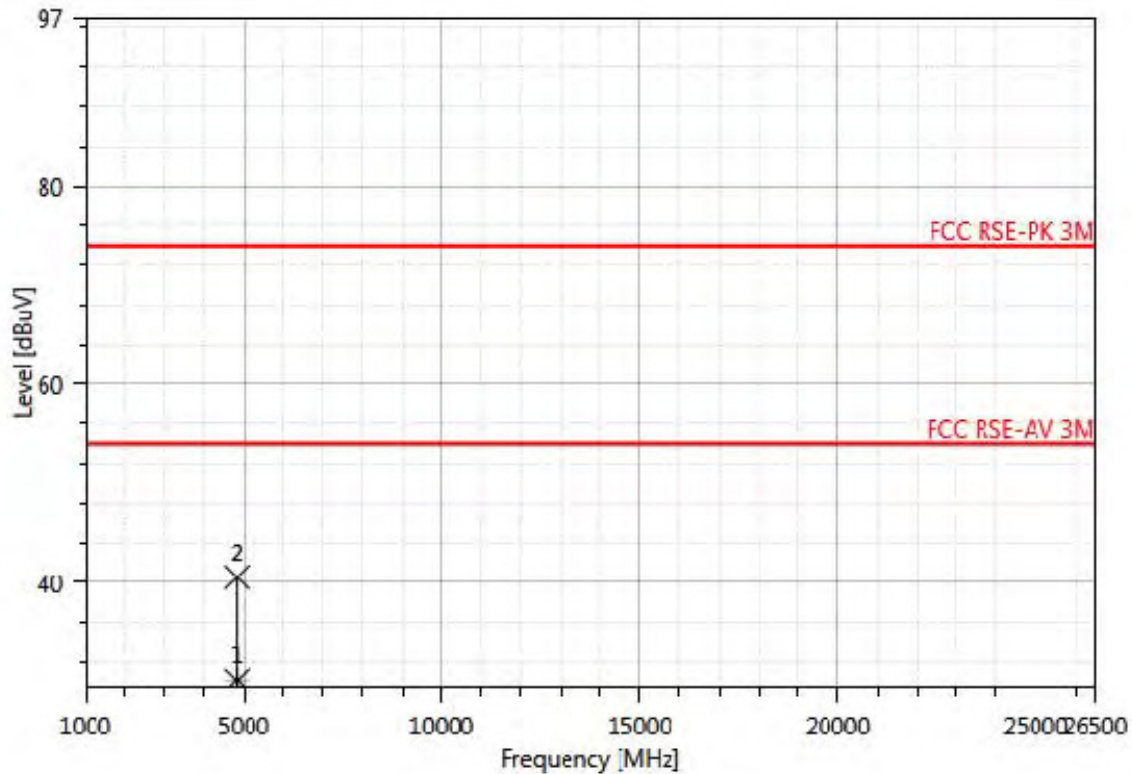
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Operation Mode :	802.11g	Test Date :	11/22/2016
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
4824.00	H	Average	30.13	25.19	4.94	54.00	-23.87
4824.00	H	Peak	40.55	35.61	4.94	74.00	-33.45

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台灣檢驗科技股份有限公司

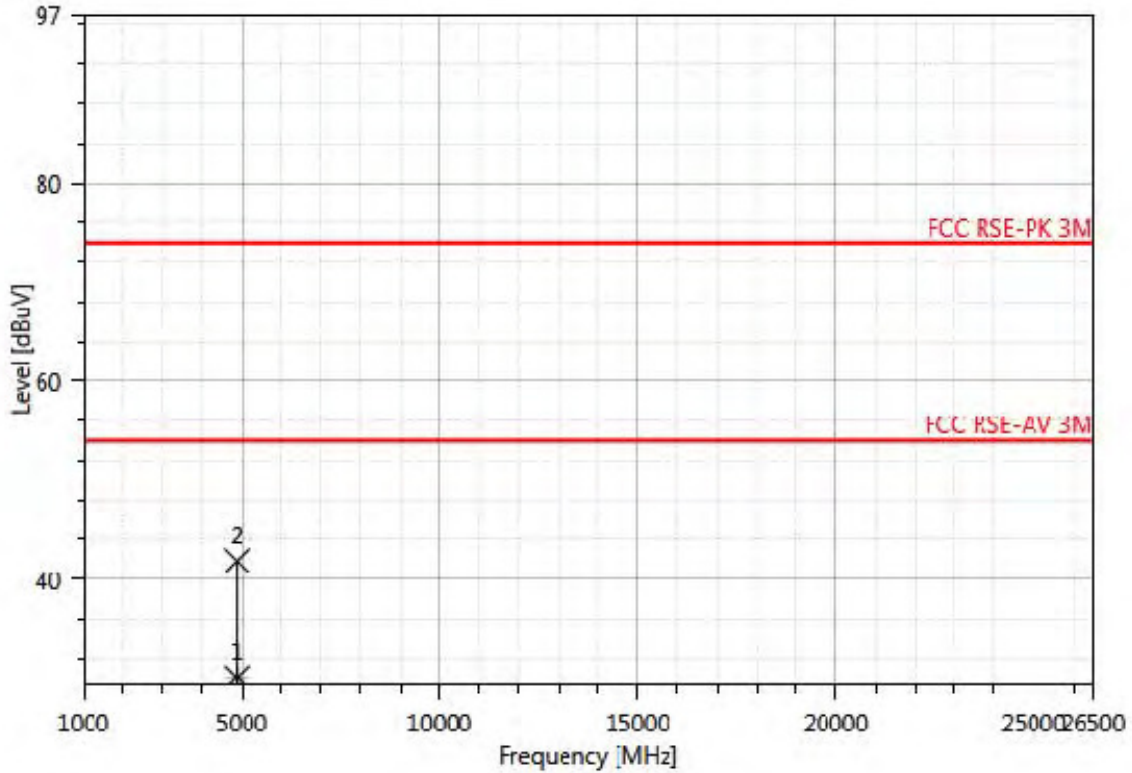
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Operation Mode :	802.11g	Test Date :	11/22/2016
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
4874.00	H	Average	30.08	24.95	5.13	54.00	-23.92
4874.00	H	Peak	41.85	36.72	5.13	74.00	-32.15

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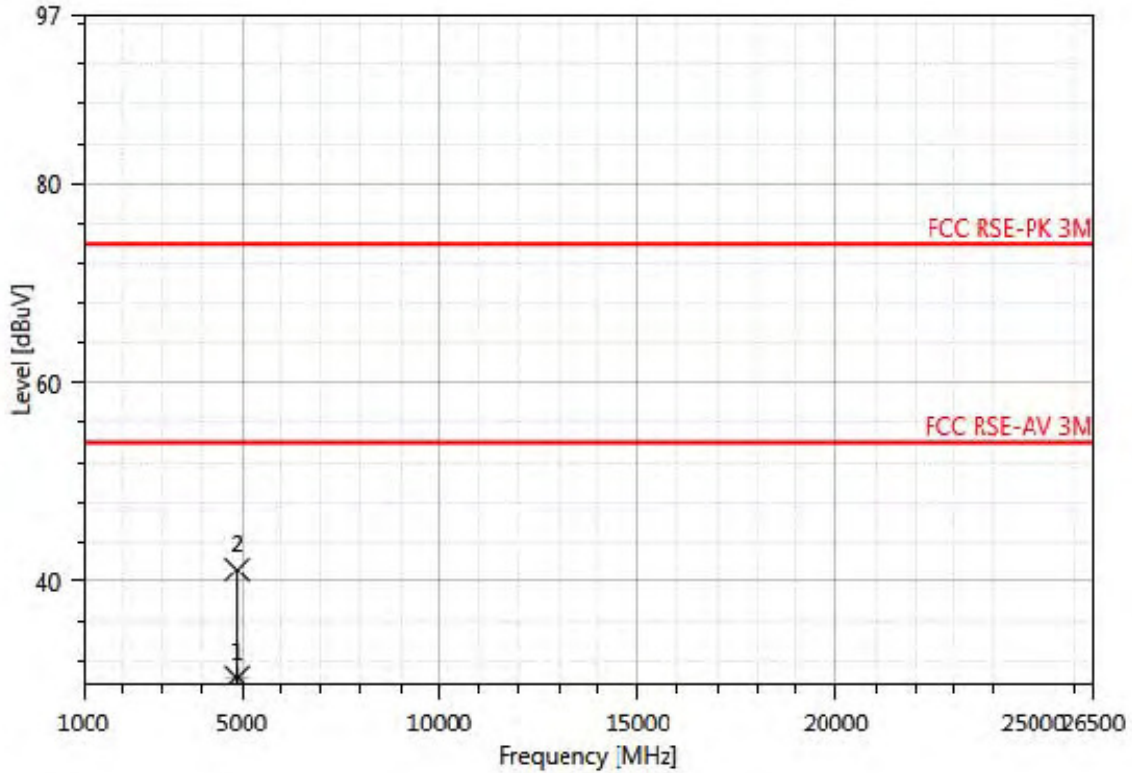
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EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



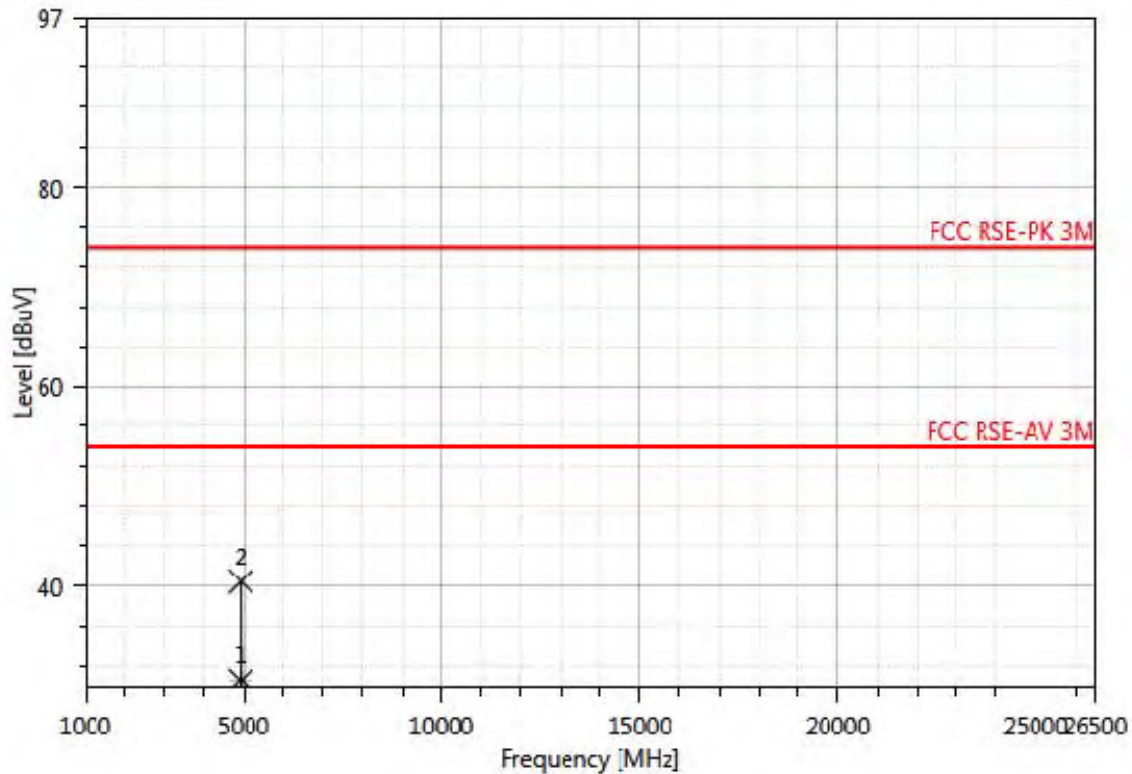
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
4874.00	H	Average	30.37	25.24	5.13	54.00	-23.63
4874.00	H	Peak	41.20	36.06	5.13	74.00	-32.80

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Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



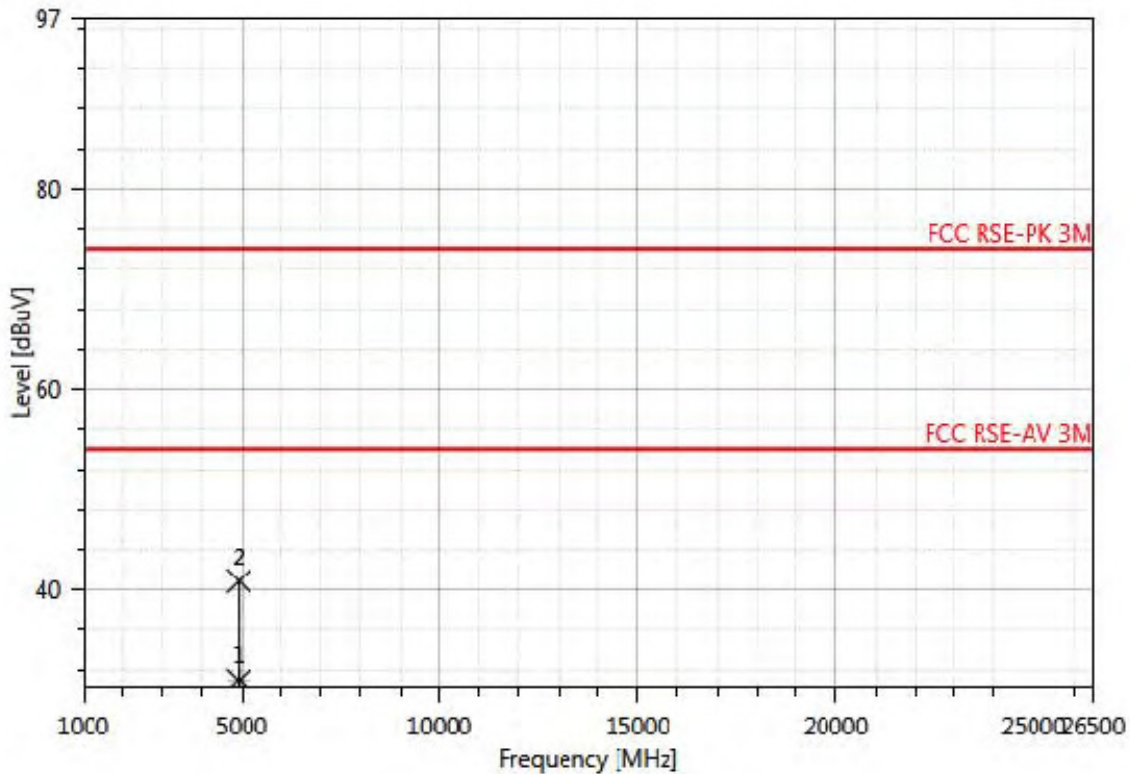
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
4924.00	H	Average	30.53	25.28	5.25	54.00	-23.47
4924.00	H	Peak	40.46	35.21	5.25	74.00	-33.54

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Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
4924.00	H	Average	30.91	25.66	5.25	54.00	-23.09
4924.00	H	Peak	40.82	35.56	5.25	74.00	-33.18

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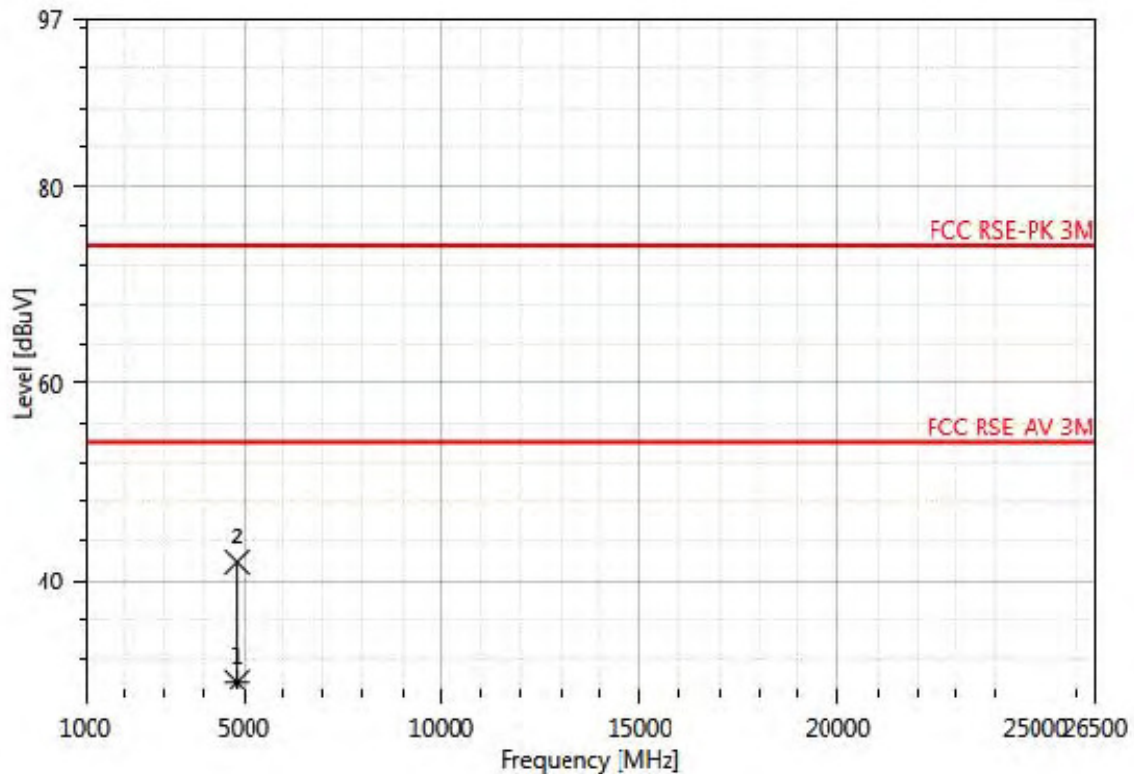
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Radiated Spurious Emission Measurement Result (802.11_HT20)

Operation Mode :	802.11 n20	Test Date :	11/22/2016
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
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
4824.00	H	Average	29.70	24.76	4.94	54.00	-24.30
4824.00	H	Peak	41.86	36.92	4.94	74.00	-32.14

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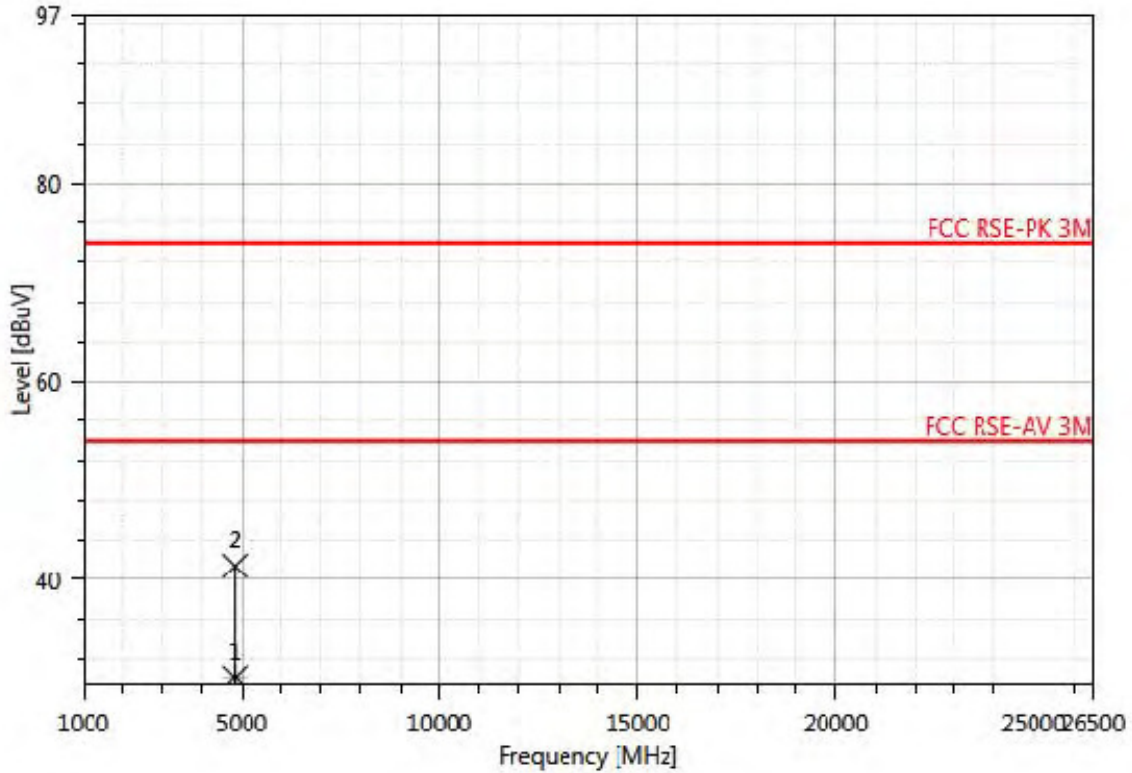
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Operation Mode :	802.11 n20	Test Date :	11/22/2016
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
4824.00	H	Average	30.15	25.21	4.94	54.00	-23.85
4824.00	H	Peak	41.41	36.46	4.94	74.00	-32.59

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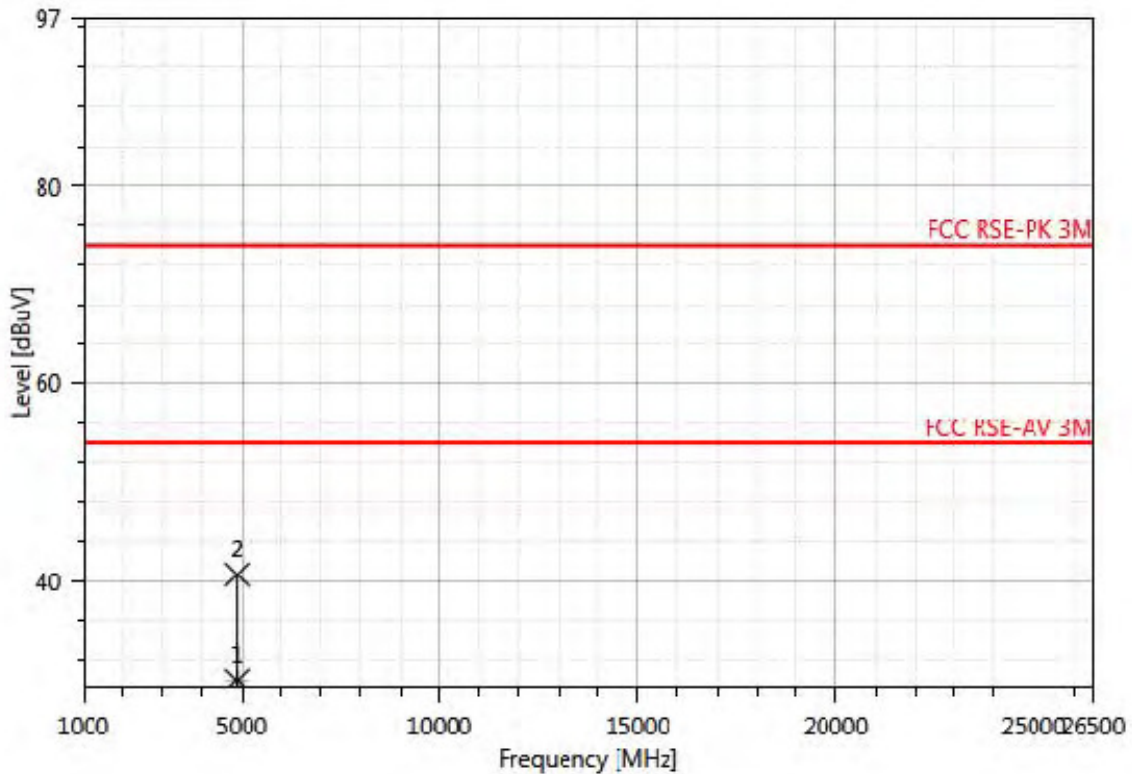
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Fundamental Frequency :	2437 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
4874.00	H	Average	29.94	24.81	5.13	54.00	-24.06
4874.00	H	Peak	40.66	35.52	5.13	74.00	-33.34

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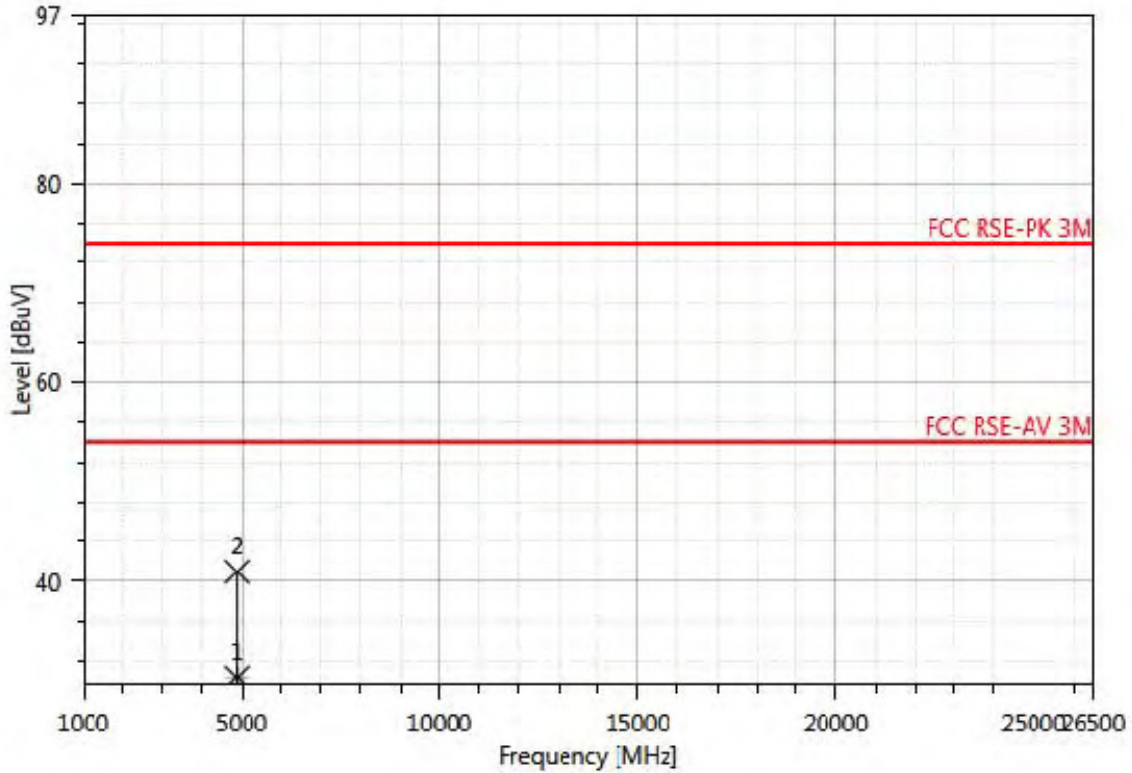
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EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
4874.00	H	Average	30.32	25.19	5.13	54.00	-23.68
4874.00	H	Peak	40.96	35.83	5.13	74.00	-33.04

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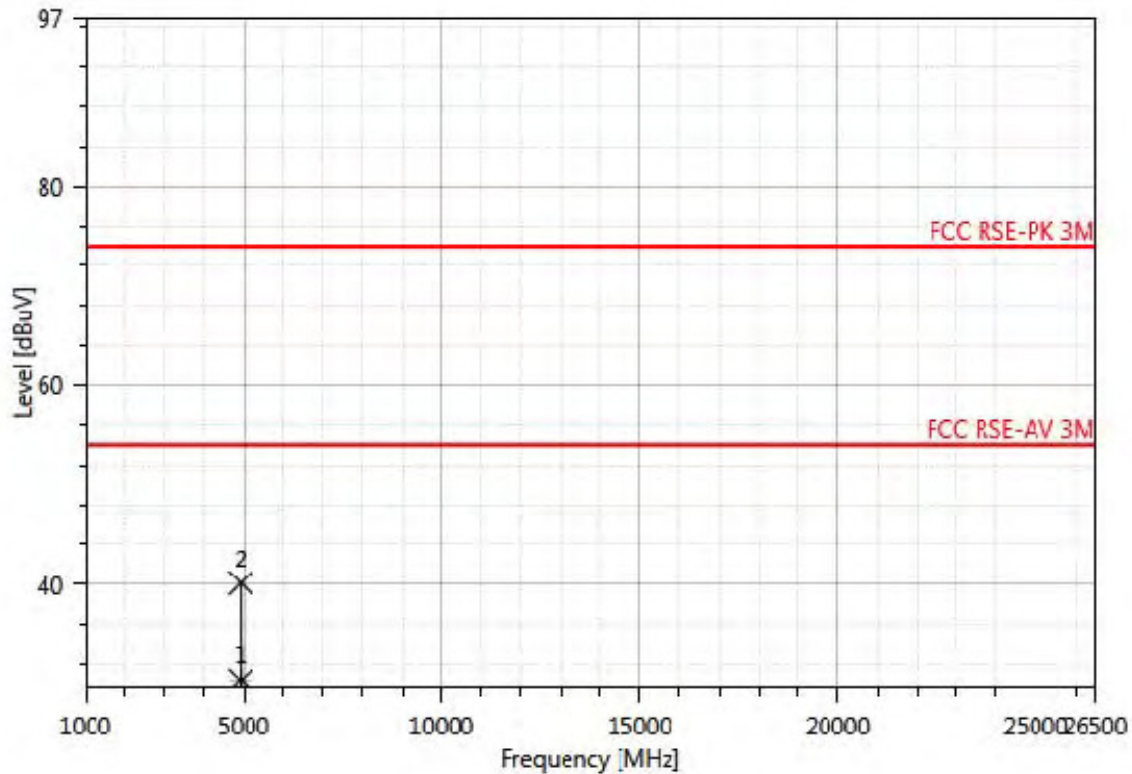
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Fundamental Frequency :	2462 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	E1 Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB μ V/m	Spectrum FS dB μ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
4924.00	H	Average	30.32	25.07	5.25	54.00	-23.68
4924.00	H	Peak	40.13	34.87	5.25	74.00	-33.87

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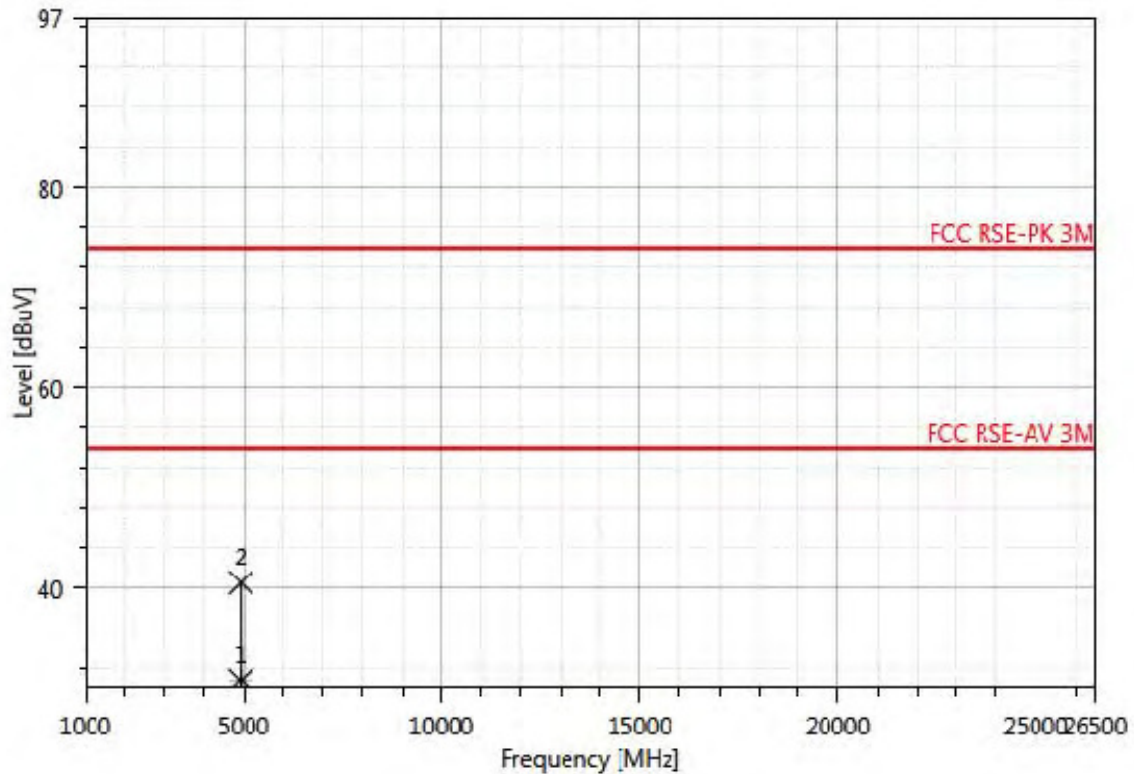
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4924.00	H	Average	30.80	25.55	5.25	54.00	-23.20
4924.00	H	Peak	40.57	35.32	5.25	74.00	-33.43

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12 PEAK POWER SPECTRAL DENSITY

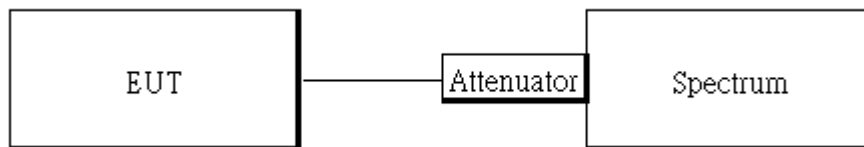
12.1 Standard Applicable

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

12.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
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

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. & the VBW = 10 kHz
5. For defining Restricted Band Edge Limit:
Set the RBW = 100kHz & VBW = 300 kHz.
6. Detector = peak.
7. Sweep time = auto couple.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.
10. Use the peak marker function to determine the maximum amplitude level.

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12.5 Measurement Result

POWER DENSITY 802.11b MODE			
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2412	-6.82	8.00	PASS
2437	-8.76	8.00	PASS
2462	-8.01	8.00	PASS

POWER DENSITY 802.11g MODE			
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2412	-9.87	8.00	PASS
2437	-10.22	8.00	PASS
2462	-8.78	8.00	PASS

POWER DENSITY 802.11n HT20 MODE			
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2412	-10.64	8.00	PASS
2437	-9.18	8.00	PASS
2462	-8.31	8.00	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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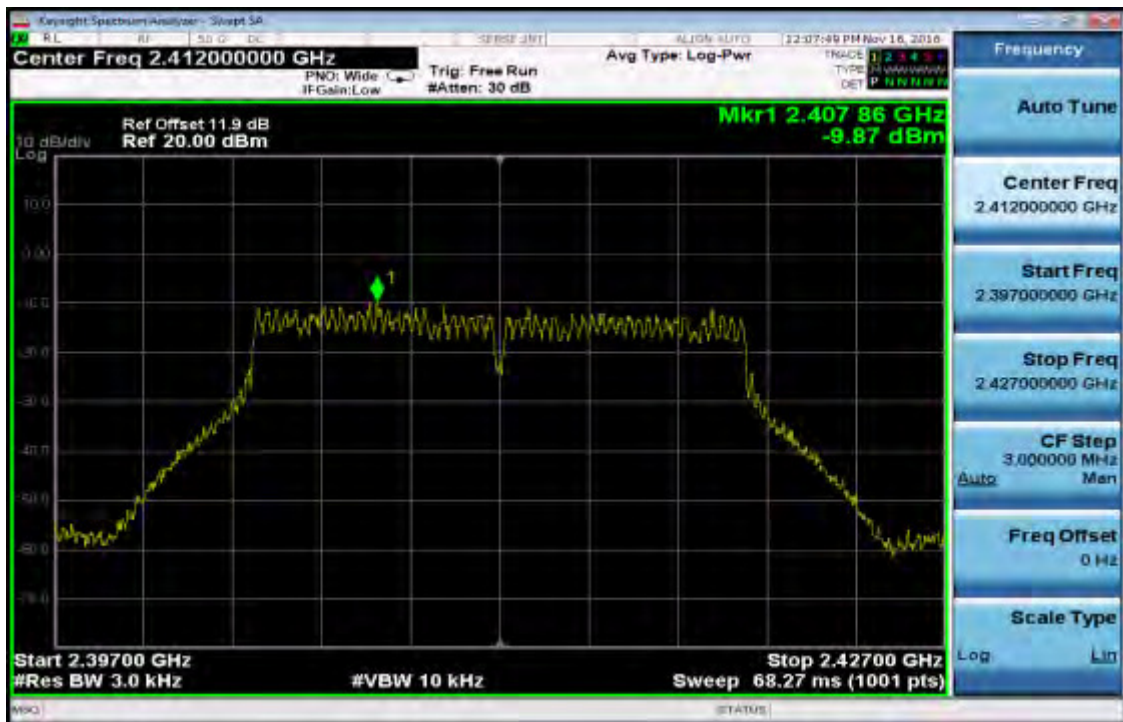
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Power Spectral Density Test Plot (CH-High)



802.11g

Power Spectral Density Test Plot (CH-Low)



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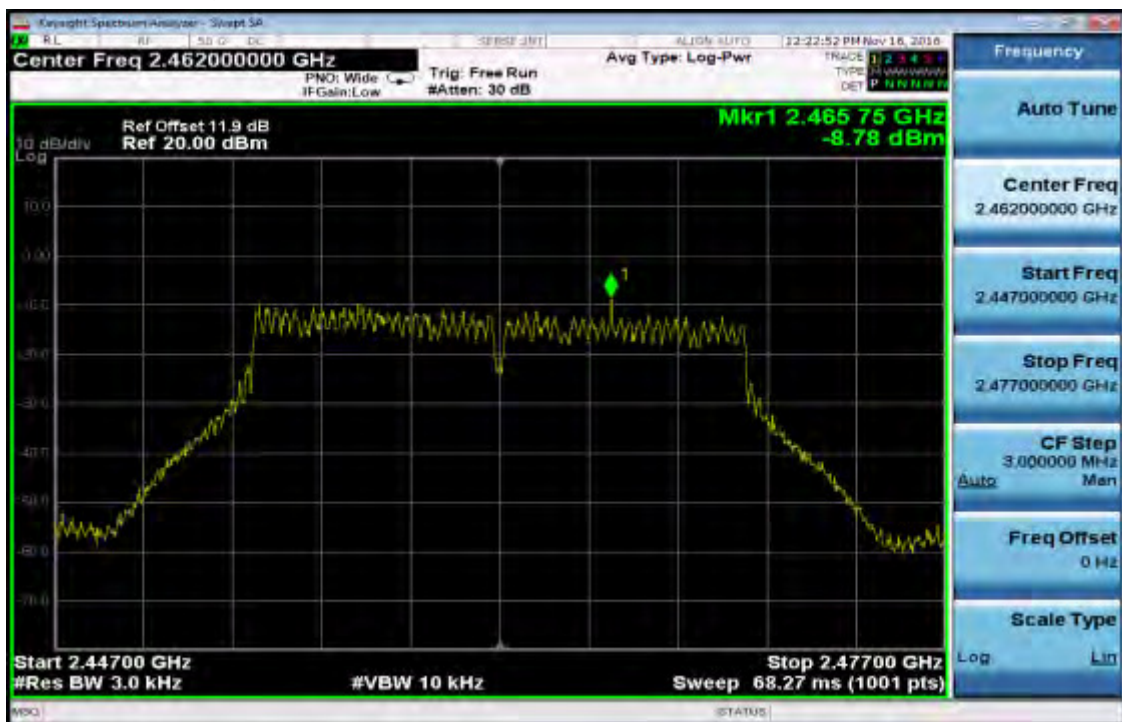
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Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



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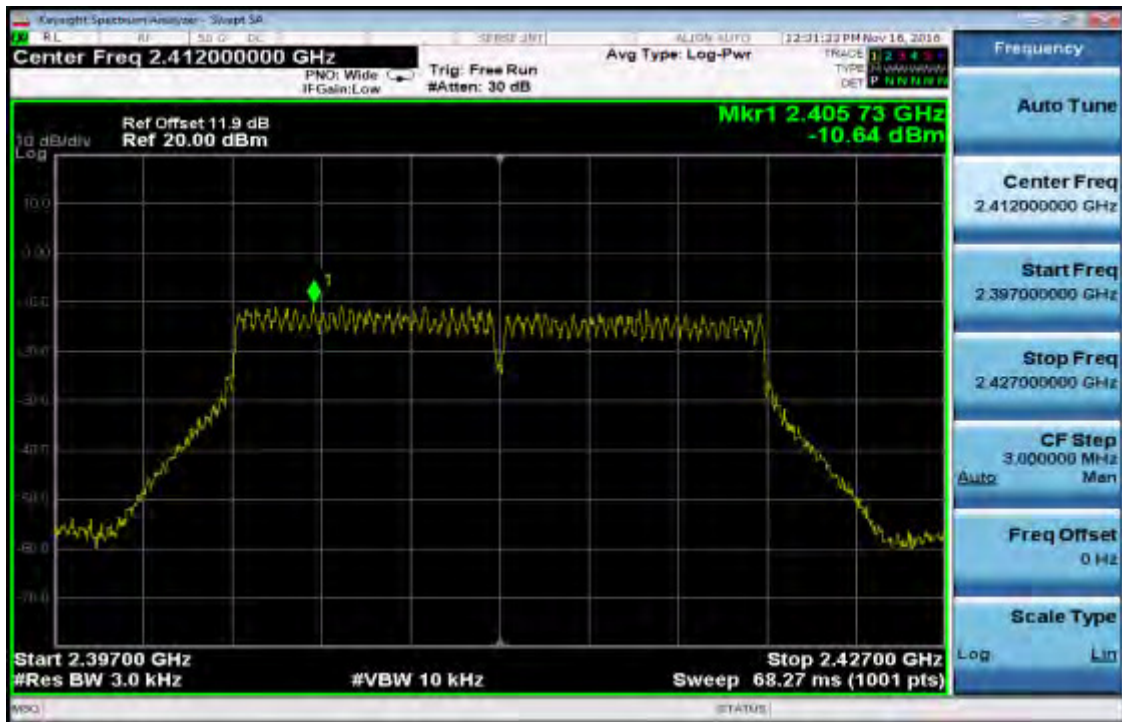
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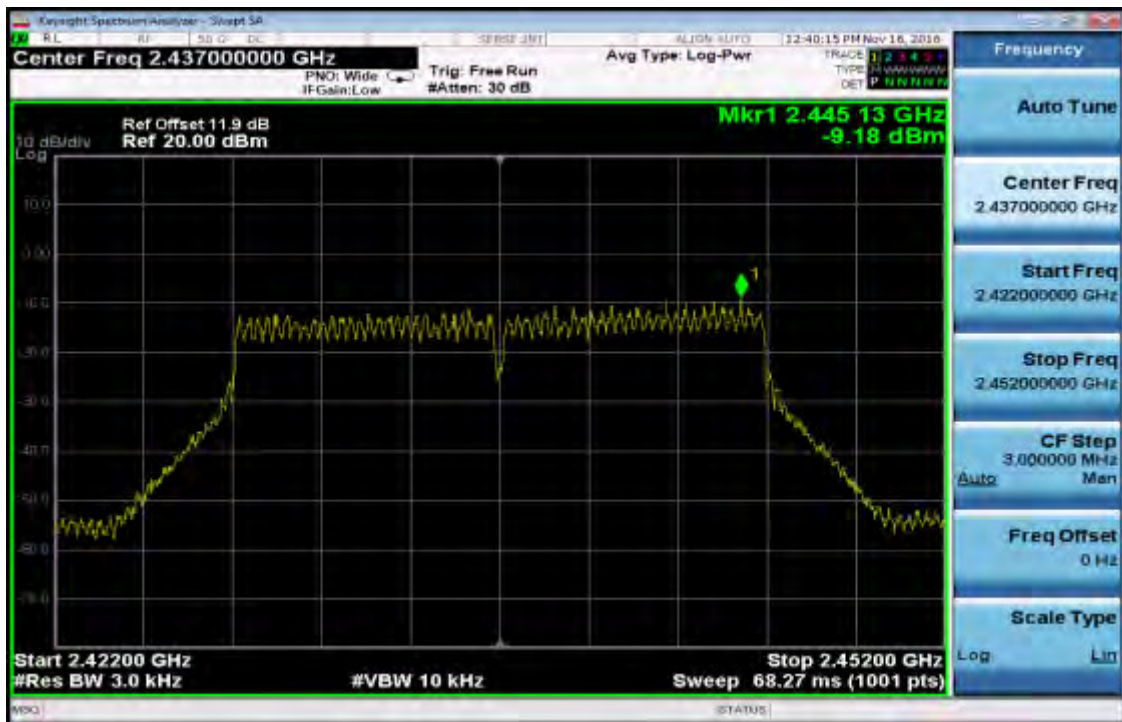
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802.11n_HT20

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



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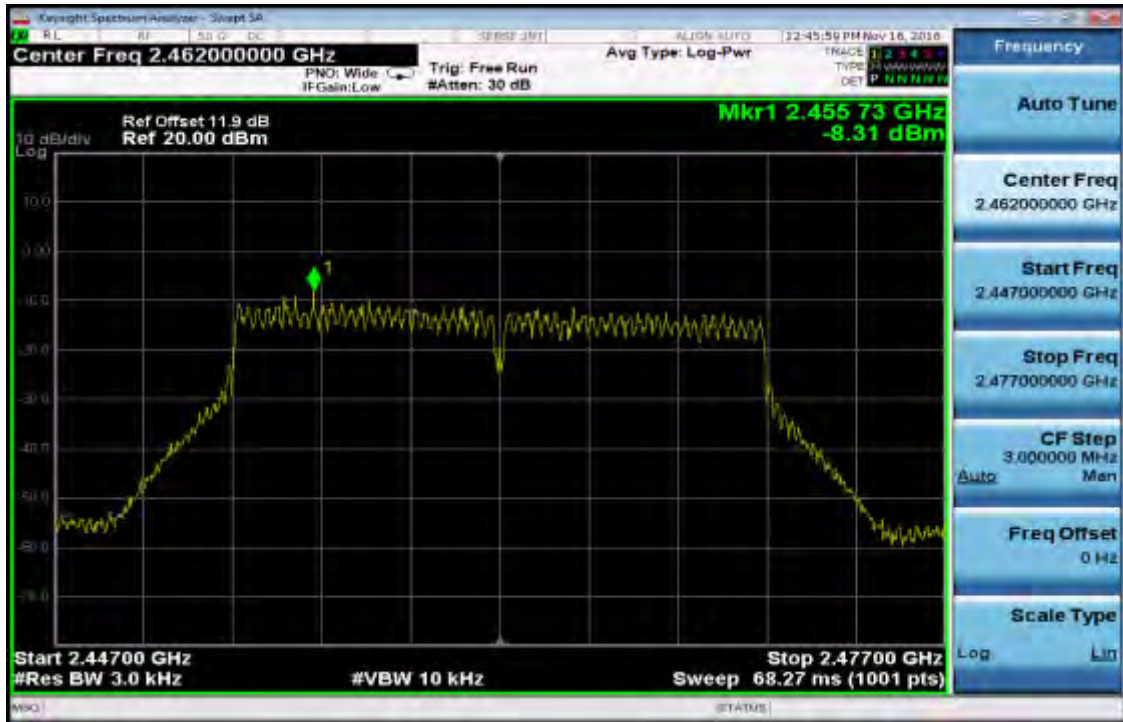
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Power Spectral Density Test Plot (CH-High)



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13 ANTENNA REQUIREMENT

13.1 Standard Applicable

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

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

13.2 Antenna Connected Construction

An embedded-in antenna design is used.

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

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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