ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name:	**Personal Device Assistant**
Brand Name:	**Datalogic**
Model No.:	**DL-Axist WWAN**
Model Difference:	**N/A**
FCC ID:	**U4GDLNFCUR1**
IC:	**3862E-DLNFCUR1**
Report No.:	**E2/2016/60070**
Issue Date:	**Aug. 03, 2016**
FCC Rule Part:	**§15.247, Cat: DTS**
IC Rule Part:	**RSS-247 issue 1 :2015**
Prepared for:	**Datalogic S.r.l. Via San Vitalino no. 13, Calderara di Reno - 40012 (Bologna) - Italy**
Prepared by:	**SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333**

Testing Laboratory
0513

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VERIFICATION OF COMPLIANCE

Applicant:	Datalogic S.r.l. Via San Vitalino no. 13, Calderara di Reno - 40012 (Bologna) - Italy
Product Name:	Personal Device Assistant
Brand Name:	Datalogic
Model No.:	DL-Axist WWAN
Model Difference:	N/A
FCC ID:	U4GDLNFCUR1
IC:	3862E-DLNFCUR1
File Number:	E2/2016/60070
Date of Test:	Jul. 04, 2016 ~ Jul. 29, 2016
Date of EUT Received:	Jul. 04, 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:	Aken Huang	***Date:***	Aug. 03, 2016
	Aken Huang / Engineer		
Prepared By:	Tiffany Kao	***Date:***	Aug. 03, 2016
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Revision History

Report Number	Revision	Description	Issue Date
E2/2016/60070	Rev.00	Initial creation of document	Aug. 03, 2016

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1 GENERAL INFORMATION

1.1 Product description

General:

Product Name:	Personal Device Assistant	
Brand Name:	Datalogic	
Model No.:	DL-Axist WWAN	
Model Difference:	N/A	
Product SW/HW version:	2.00.09 / ES4	
Radio SW/HW version:	N/A / N/A	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
Power Supply:	3.8Vdc from Rechargeable Li-polymer Battery or 5V from AC/DC Adapter	
	Battery:	1. Model No.: Standard BTDL1, Supplier: JMS 2. Model No.: Extended BTDL1, Supplier: JMS
	Adapter:	1. Model No.: SYS1561-1005, Supplier: Sunny

WLAN 2.4GHz:

Wi-Fi	Frequency Range	Channels	Rated Power / (EIRP)	Type of Emission	Modulation Technology
11b/g	2412-2462	11	b: 16.55dBm b: 15.30dBm (EIRP) g: 19.54dBm g: 12.08dBm (EIRP)	b: 14M5G1D g:16M3D1D	DSSS, OFDM
11n	HT20 2412-2462	11	19.62dBm 12.71dBm (EIRP)	17M5D1D	OFDM
Antenna Designation:	PIFA Antenna, Gain: 0.9dBi				
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 – 65Mbps				

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1.2 Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is Personal Device Assistant, supporting GSM / WCDMA, Wi-Fi 802.11a/b/g/n, Bluetooth, NFC features, and below is details of information.

Product Feature	
Product Name:	Personal Device Assistant
Brand Name:	Datalogic
Model No.:	DL-Axist WWAN
Model Difference:	N/A
FCC ID:	U4GDLNFCUR1
IC :	3862E-DLNFCUR1
GSM Operating Band(s)	GSM 850/1900MHz
GPRS / EGPRS Multi Slot Class	GPRS Class 12
WCDMA Operating Band(s)	FDD Band II / V
WCDMA Rel. Version	Rel.3.3
Bluetooth Version	V4.0 dual mode
Wi-Fi- Specification	802.11a/b/g/n
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

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.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333 (TAF code 0513)

FCC Registration Numbers are: 735305

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 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 0.5dB and 10dB attenuator.

Offset:

= RF cable loss (dB)+ attenuation factor(dB) dB =10.5dB

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2.5 Configuration of Tested System

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

Fig. 2-2 Conducted (Antenna Port) Emission

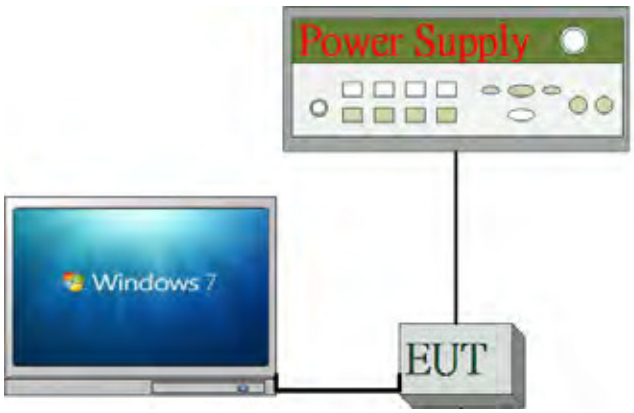

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Fig. 2-3 C AC Power Line Conducted Configuration

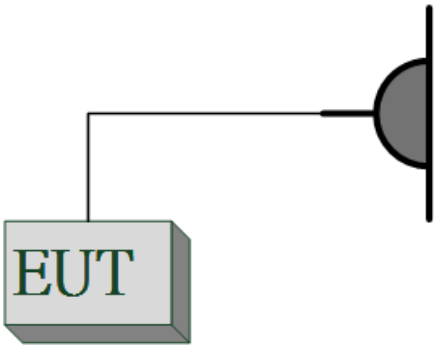

Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	DC Power Supply	Agilent	E3640A	MY53140006	N/A	Un-shielded
3.	Notebook	Lenovo	L430	R9-YYG88	Shielded	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

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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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 H position was reported; as for the wireless charging mode, 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	MCS0	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: +/-2.87dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

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

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

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6 CONDUCTED EMISSION TEST

6.1 Standard Applicable

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

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

Note
1.The lower limit shall apply at the transition frequencies
2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
EMI Test Receiver	R&S	ESCI 7	100950	12/12/2015	12/11/2016
Coaxial Cables	N/A	N30N30-1042-150 cm	N/A	02/07/2016	02/06/2017
LISN	Schwarzbeck	NSLK 8127	8127-648	03/11/2016	03/10/2017
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

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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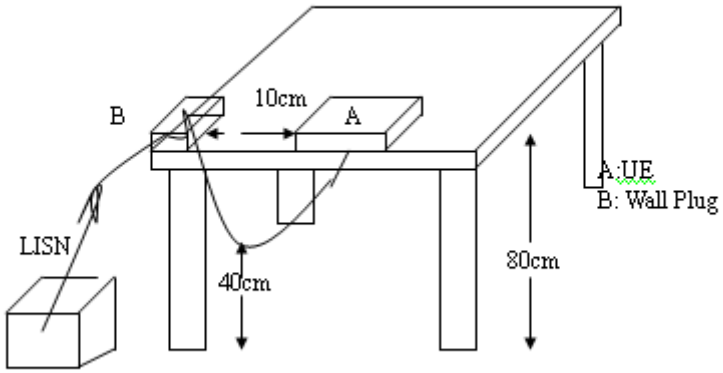
Member of SGS Group

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:	Jul. 26, 2016
Temperature:	20		

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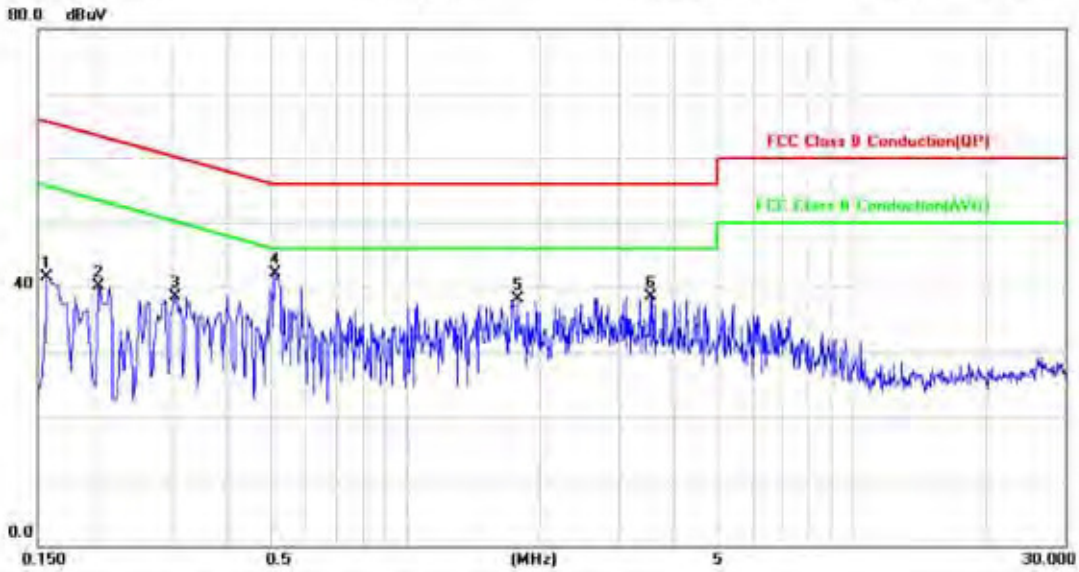
Site	Conduction Room	Phase:	N	Temperature:	22 ℃
Limit:	FCC Class B Conduction(QP)	Power:	AC 120V/60Hz	Humidity:	63 %
Mode:	SYS1561-1005				
Note:					

Conducted Emission

File :Condution Data :#505 Date: 2016/7/26 Time: 下午 11:20:42



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1580	21.73	19.73	41.46	65.57	-24.11	peak	
2		0.2060	20.46	19.72	40.18	63.37	-23.19	peak	
3		0.3060	18.71	19.78	38.49	60.08	-21.59	peak	
4	*	0.5100	22.29	19.91	42.20	56.00	-13.80	peak	
5		1.7860	18.21	19.94	38.15	56.00	-17.85	peak	
6		3.5420	18.49	19.96	38.45	56.00	-17.55	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:

Duty Cycle = Ton / (Ton+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	97.50	0.11
802.11g	86.83	0.61
802.11n_20	85.64	0.67

Duty Cycle Factor: 10 * log(1/0.975) = 0.11
Duty Cycle Factor: 10 * log(1/0.8683) = 0.61
Duty Cycle Factor: 10 * log(1/0.8564) = 0.67

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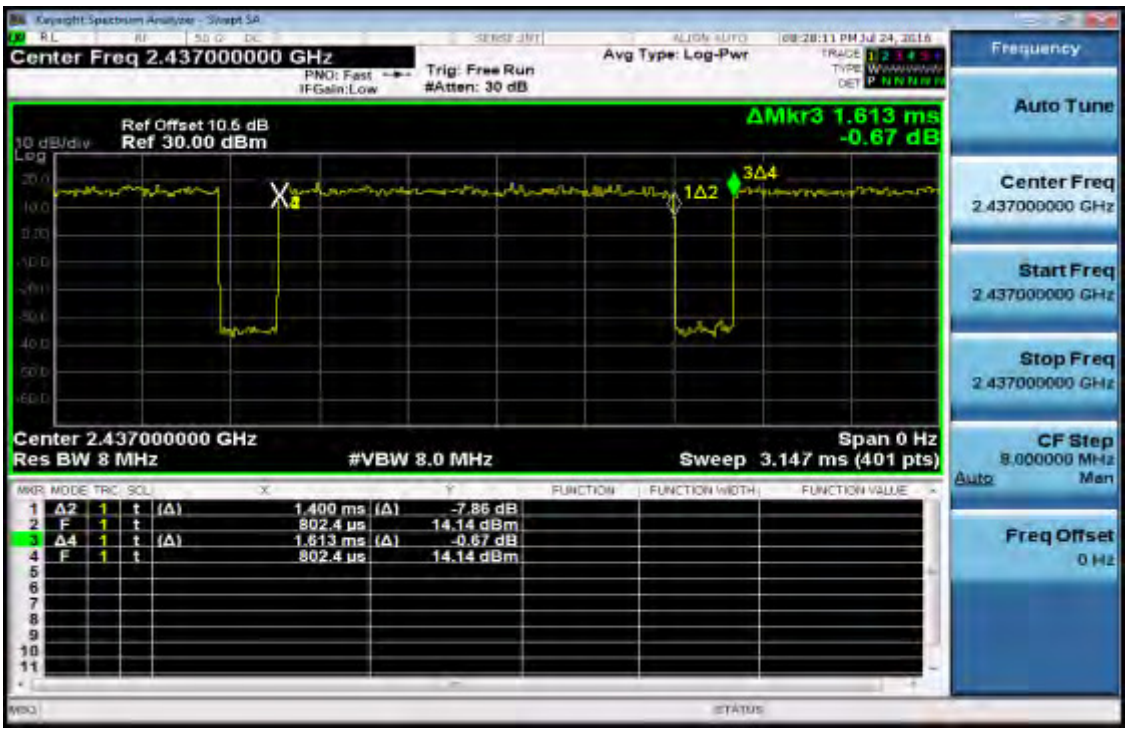
7.1 DUTY CYCLE TEST SIGNAL Measurement Result

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.

Per RSS-247

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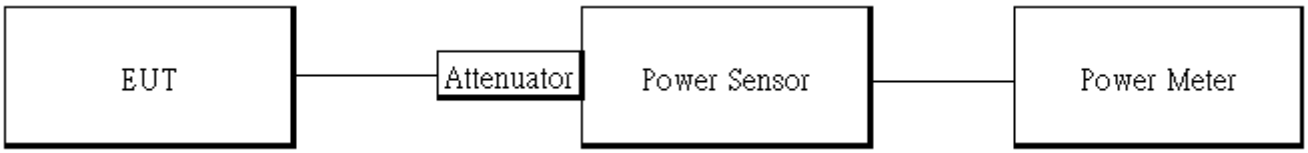
8.3 Test Set-up

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	**16.55**	**45.19**	1 Watt =	30.00	dBm	PASS
6	2437	1	15.77	37.76	1 Watt =	30.00	dBm	PASS
11	2462	1	15.76	37.67	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	**14.4**	**27.54**	1 Watt =	30.00	dBm	PASS
6	2437	1	14.01	25.18	1 Watt =	30.00	dBm	PASS
11	2462	1	13.87	24.38	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	**19.54**	**89.95**	1 Watt =	30.00	dBm	PASS
6	2437	6	19.41	87.30	1 Watt =	30.00	dBm	PASS
11	2462	6	19.38	86.70	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	11.13	12.97	1 Watt =	30.00	dBm	PASS
6	2437	6	**11.18**	**13.12**	1 Watt =	30.00	dBm	PASS
11	2462	6	10.75	11.89	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	**19.62**	**91.62**	1 Watt =	30.00	dBm	PASS
6	2437	MCS0	19.37	86.50	1 Watt =	30.00	dBm	PASS
11	2462	MCS0	19.33	85.70	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	**11.81**	**15.17**	1 Watt =	30.00	dBm	PASS
6	2437	MCS0	11.67	14.69	1 Watt =	30.00	dBm	PASS
11	2462	MCS0	10.99	12.56	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	**14.40**	**0.90**	**15.30**	4W=	36	dBm	PASS
6	2437	1	14.01	**0.90**	14.91	4W=	36	dBm	PASS
11	2462	1	13.87	**0.90**	14.77	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	11.13	**0.90**	12.03	4W=	36	dBm	PASS
6	2437	6	**11.18**	**0.90**	**12.08**	4W=	36	dBm	PASS
11	2462	6	10.75	**0.90**	11.65	4W=	36	dBm	PASS

802.11n_HT20M Main									
CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit			RESULT
1	2412	MCS0	**11.81**	**0.90**	**12.71**	4W=	36	dBm	PASS
6	2437	MCS0	11.67	**0.90**	12.57	4W=	36	dBm	PASS
11	2462	MCS0	10.99	**0.90**	11.89	4W=	36	dBm	PASS

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

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9 6DB & 99% BANDWIDTH MEASUREMENT

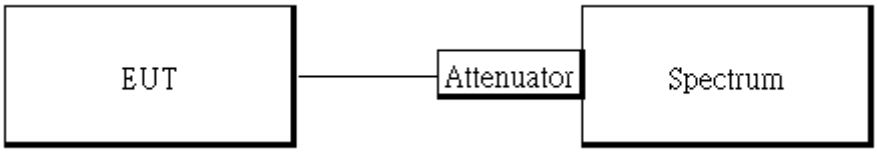
9.1 Standard Applicable

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	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
DC Block	PASTERNACK	PE8210	RF29	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016

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	10084	> 500	PASS
2437	5073	> 500	PASS
2462	**10086**	> 500	PASS

802.11g Main

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

802.11_n_HT20 Main

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

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99% Bandwidth

802.11b Main	
Frequency (MHz)	99%Bandwidth (MHz)
2412	14.433
2437	14.389
2462	**14.527**

802.11g Main	
Frequency (MHz)	99%Bandwidth (MHz)
2412	16.338
2437	16.332
2462	**16.424**

802.11n_HT20M Main	
Frequency (MHz)	99%Bandwidth (MHz)
2412	17.397
2437	17.465
2462	**17.543**

**Refer to next page for plots*

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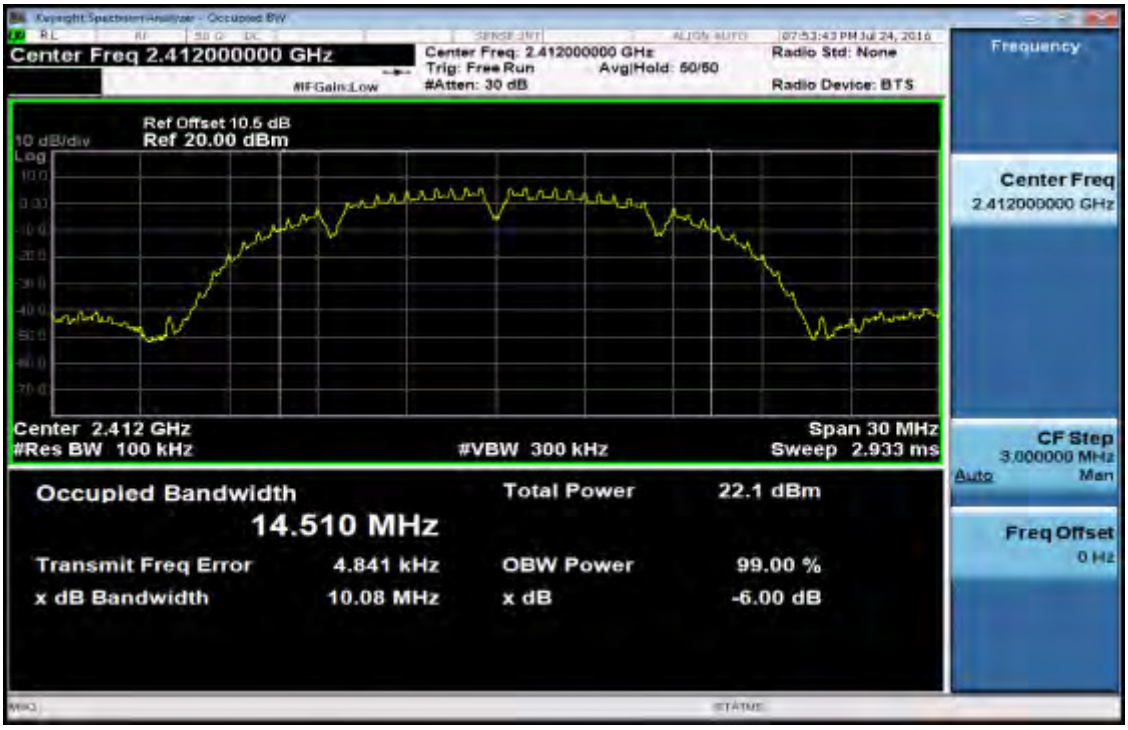
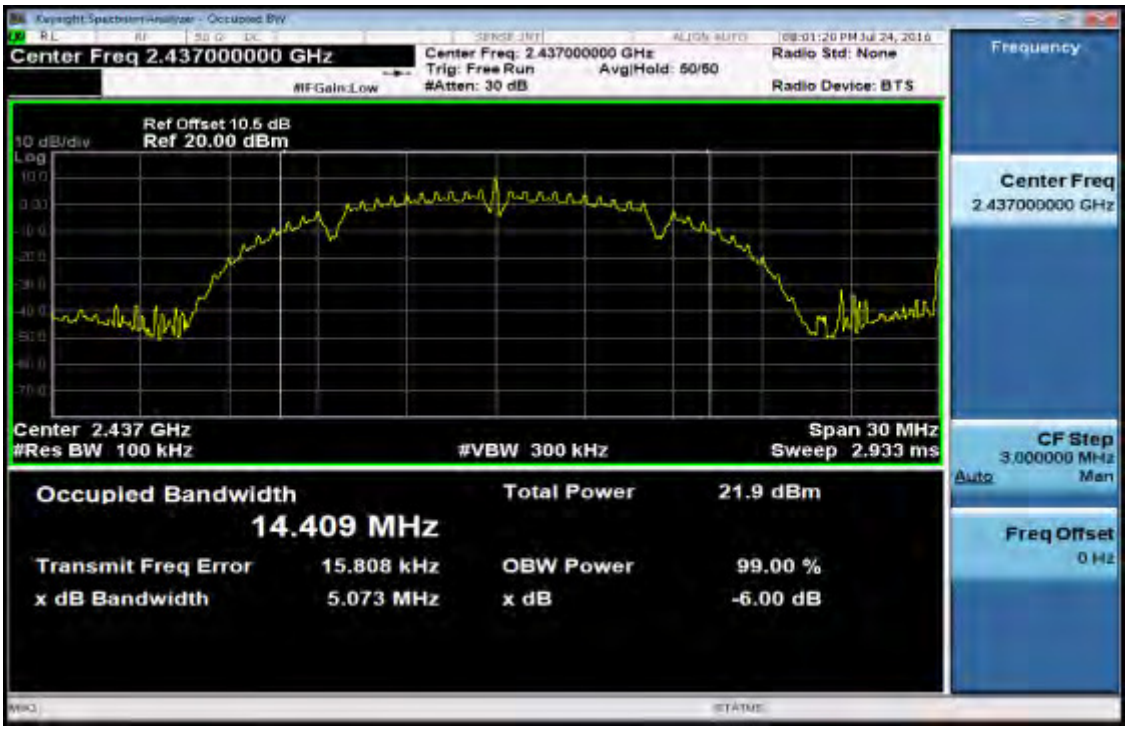
802.11b (Main)
6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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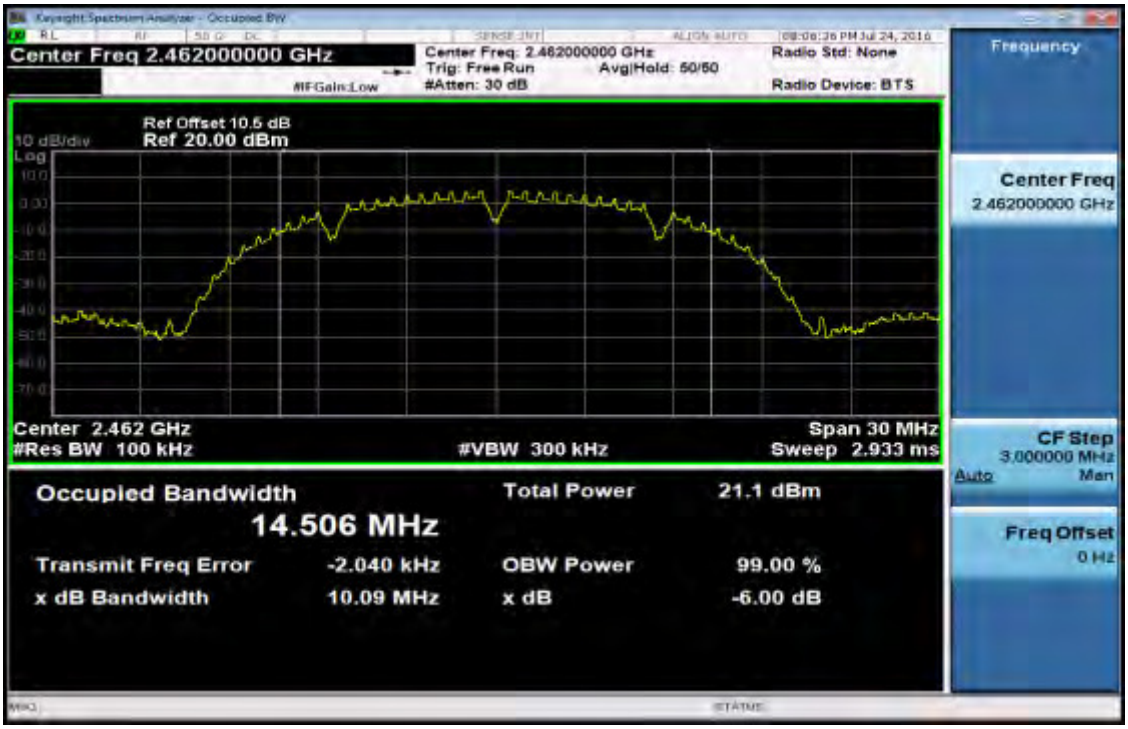
6dB Band Width Test Data CH-High



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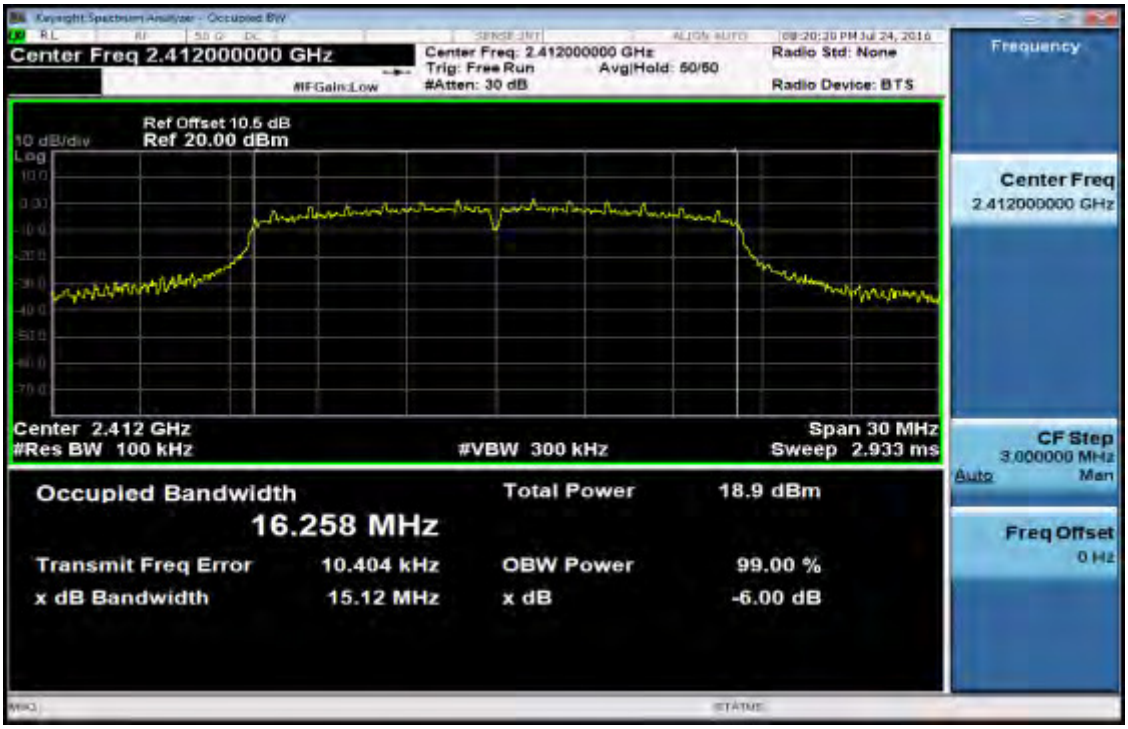
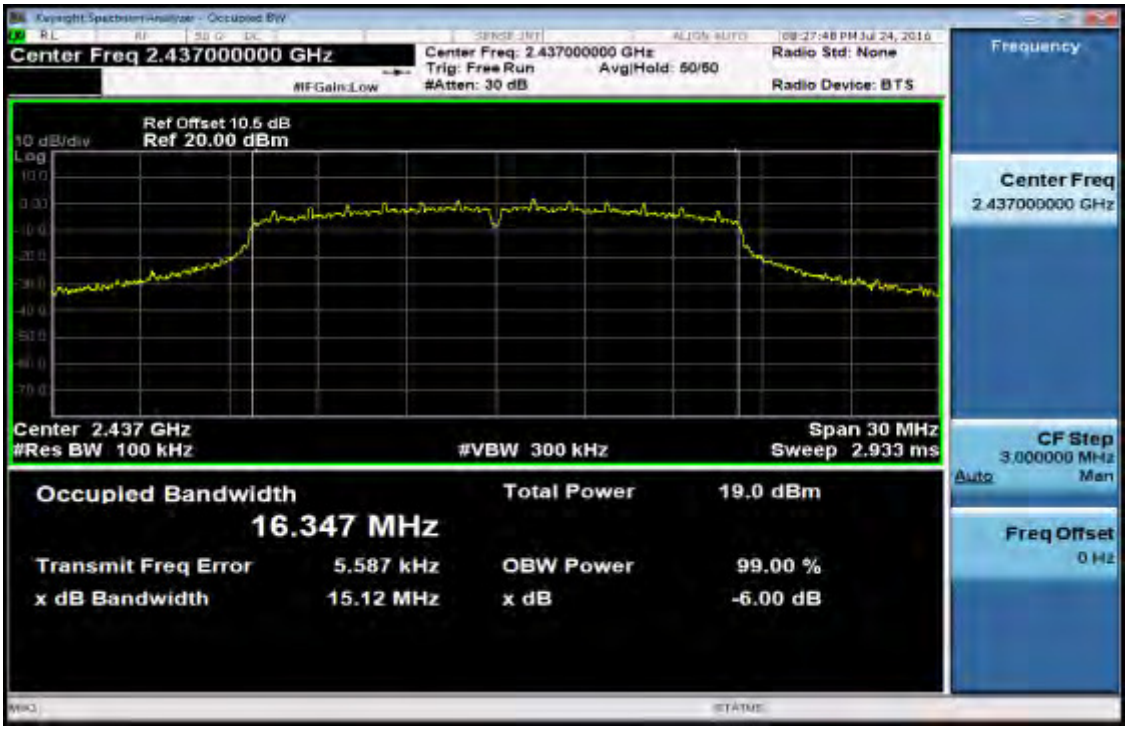
802.11g (Main)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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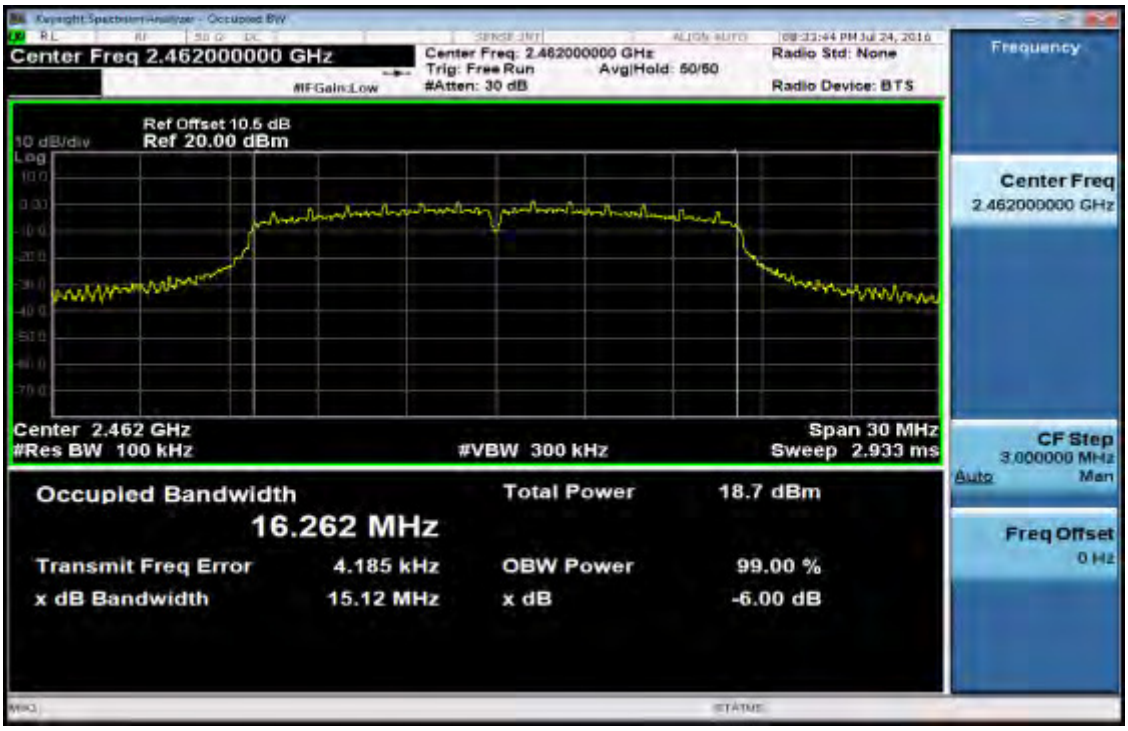
6dB Band Width Test Data CH-High



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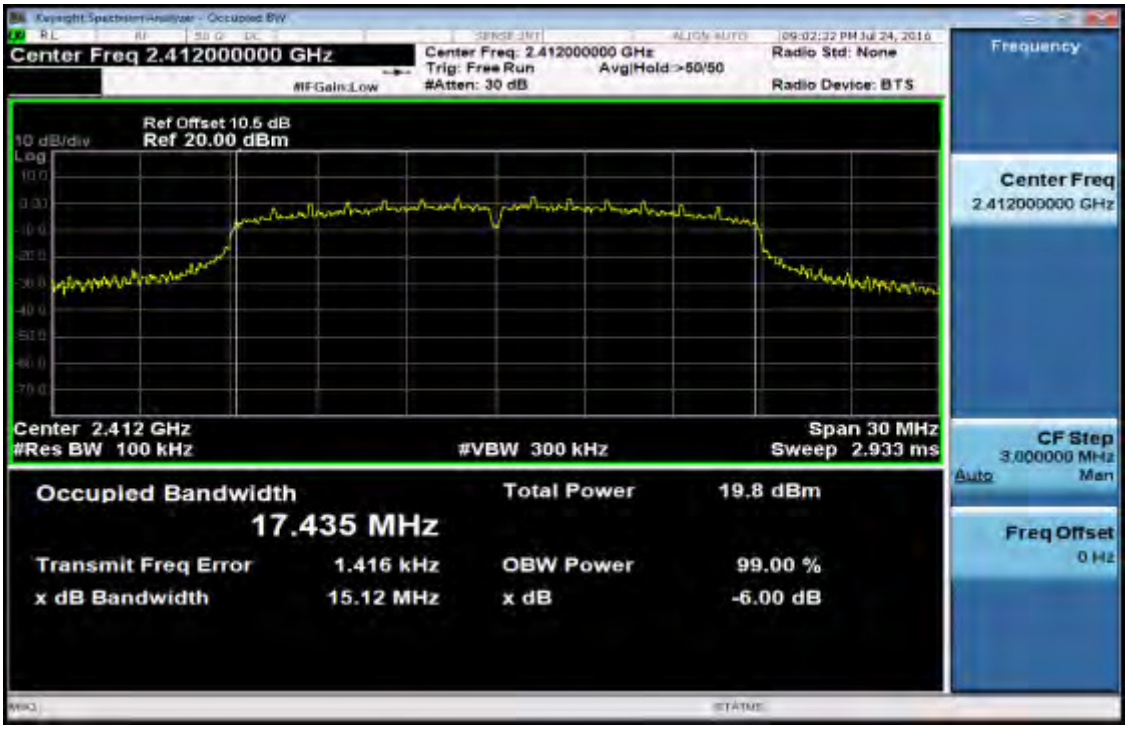
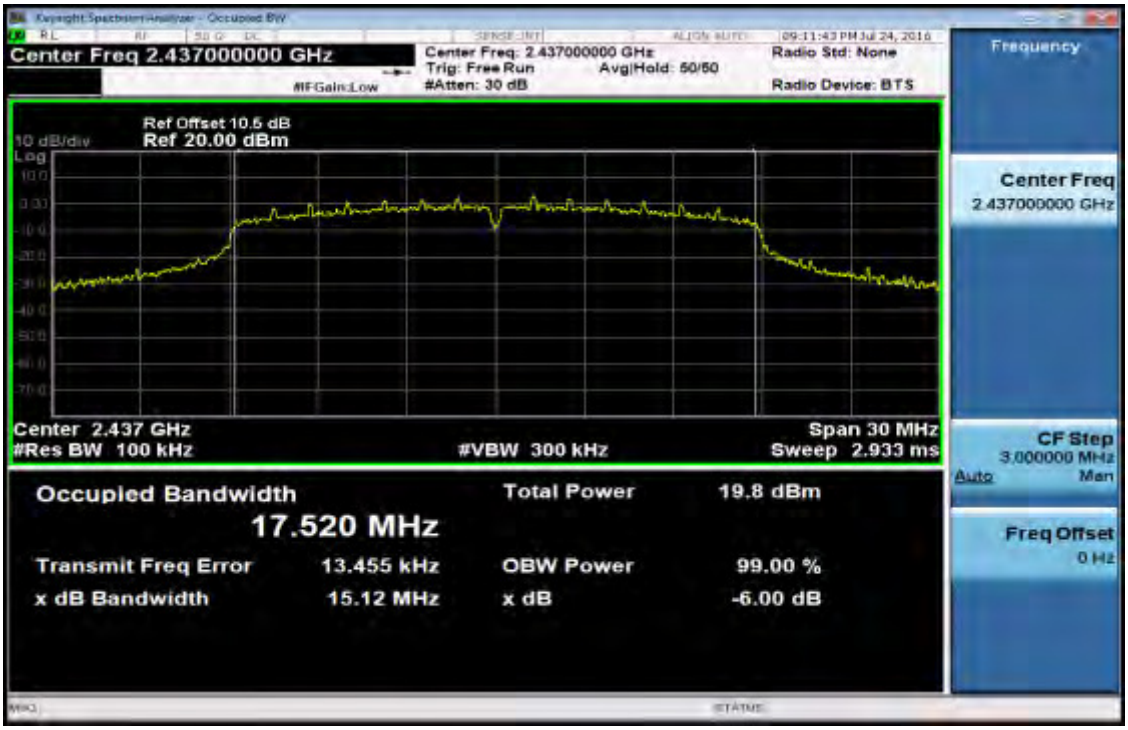
802.11n_20M (Main)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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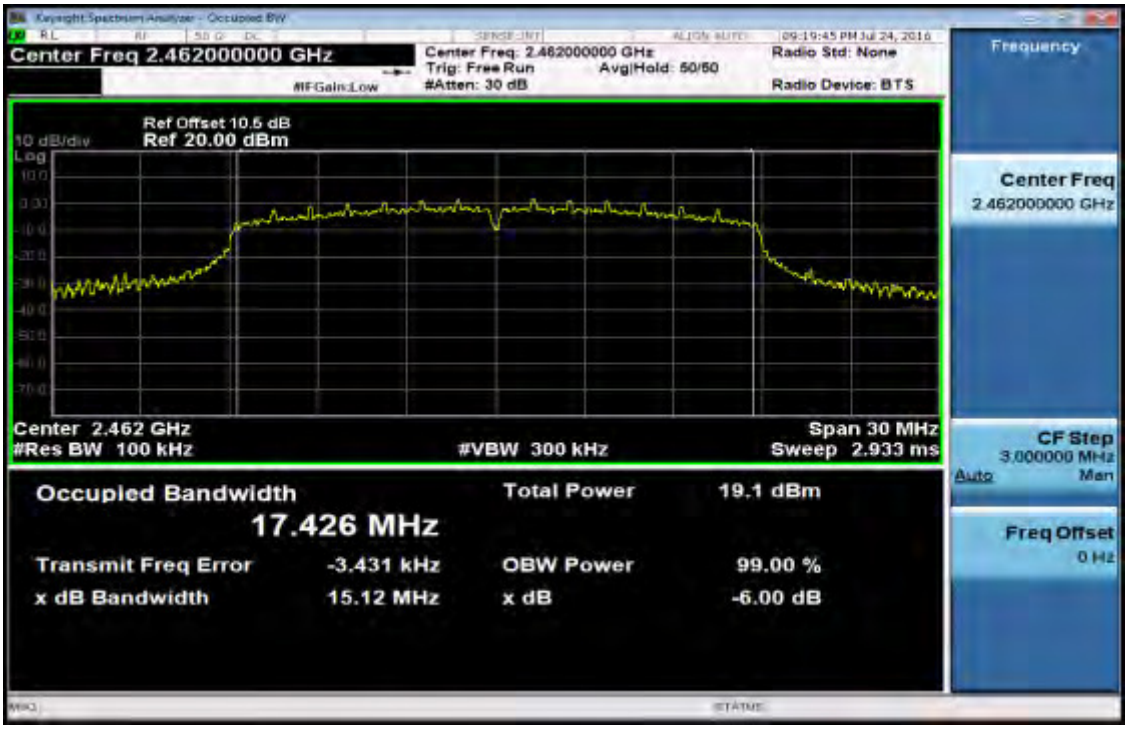
6dB Band Width Test Data CH-High



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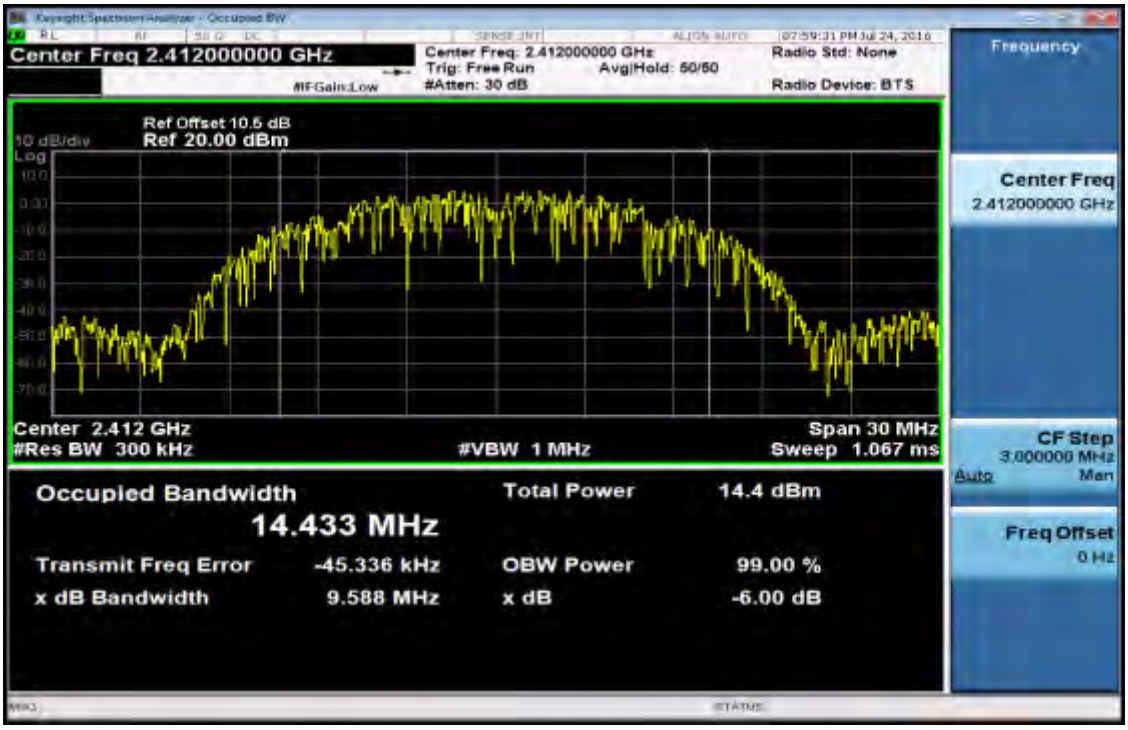
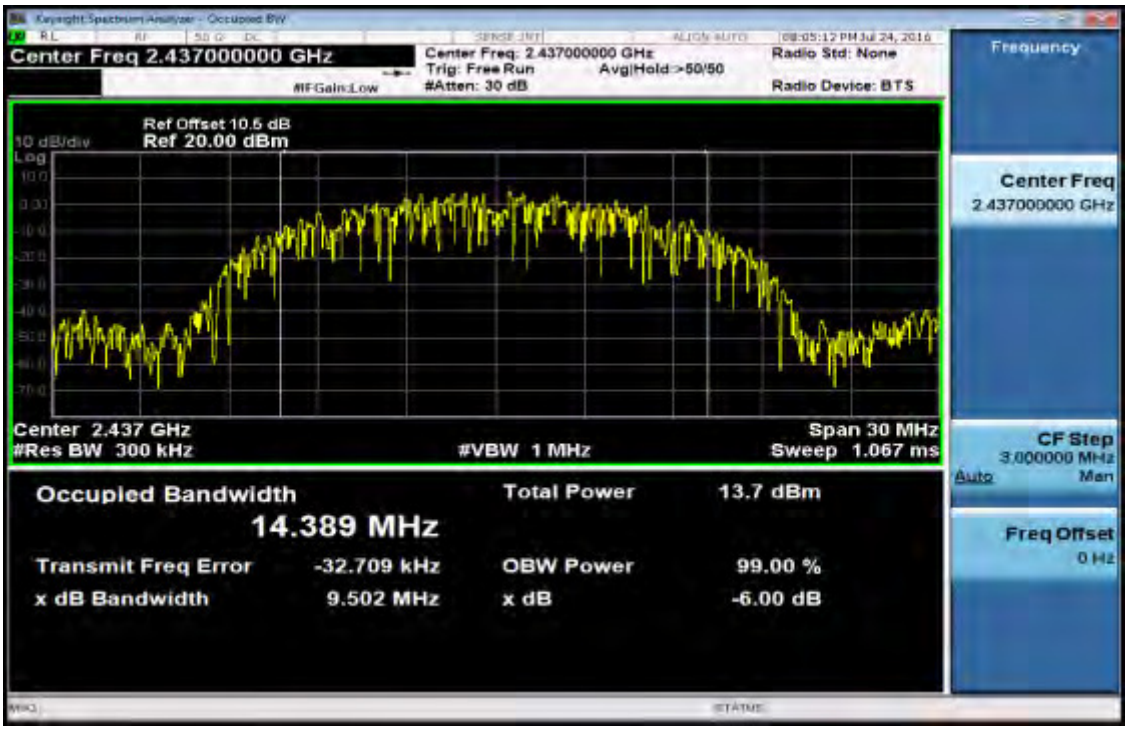
802.11b (Main)
99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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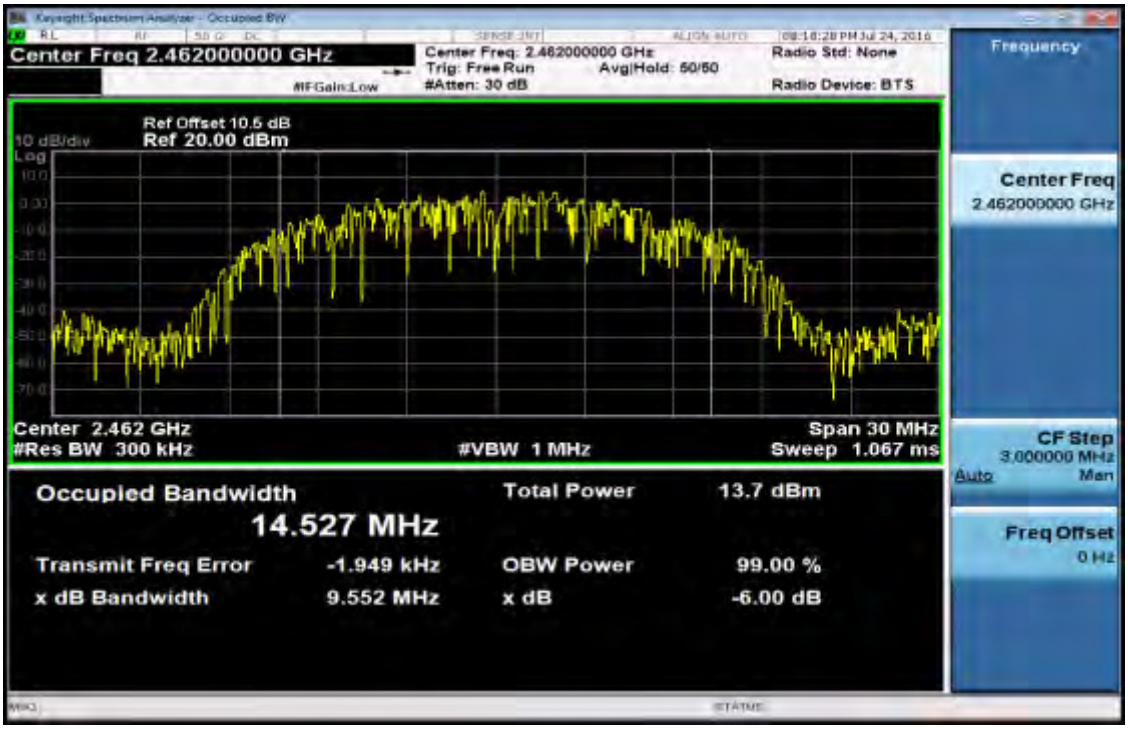
99% Band Width Test Data CH-High



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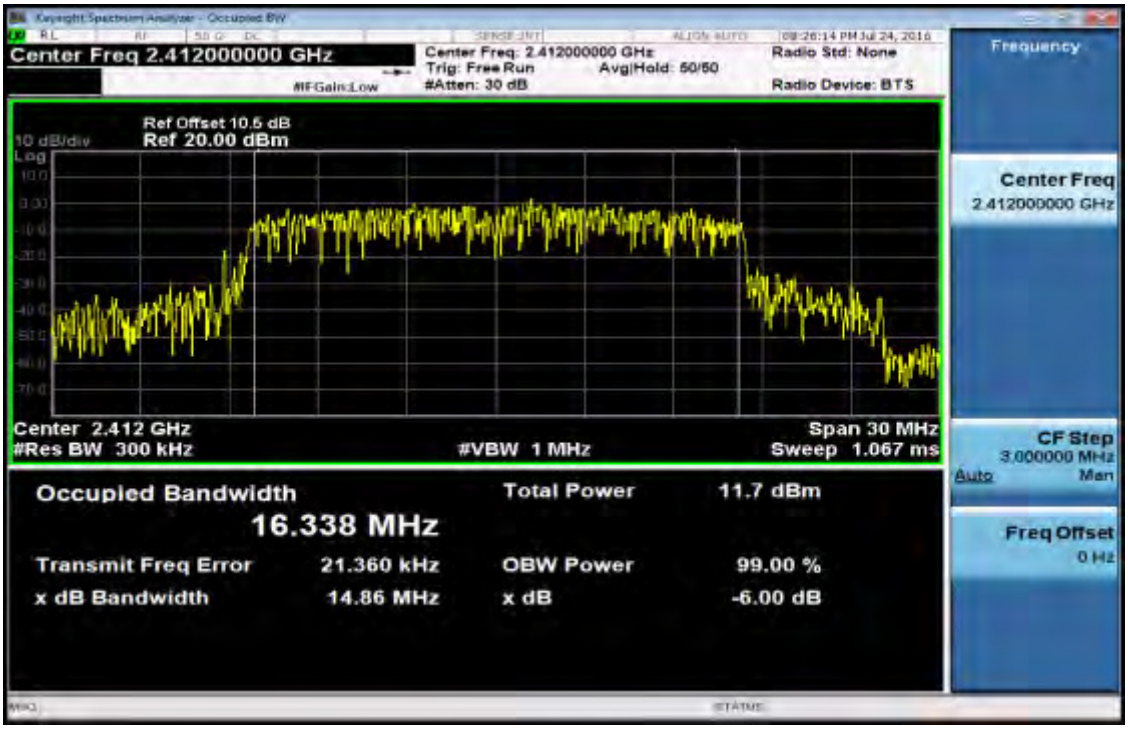
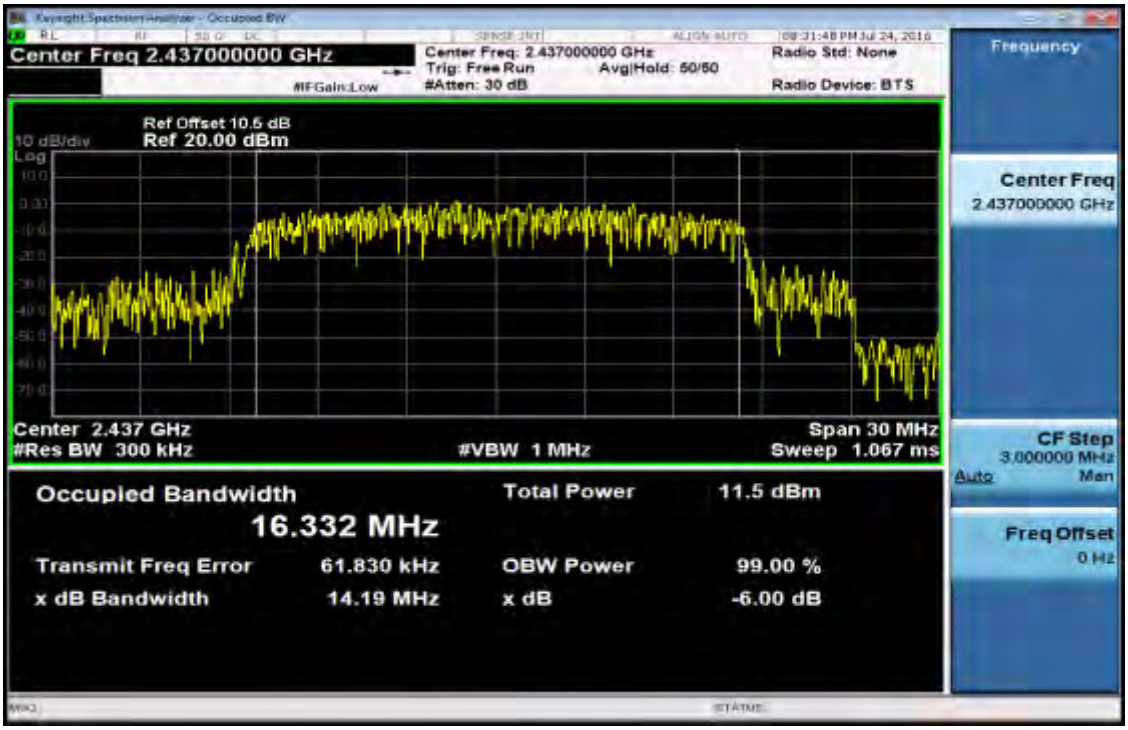
802.11g (Main)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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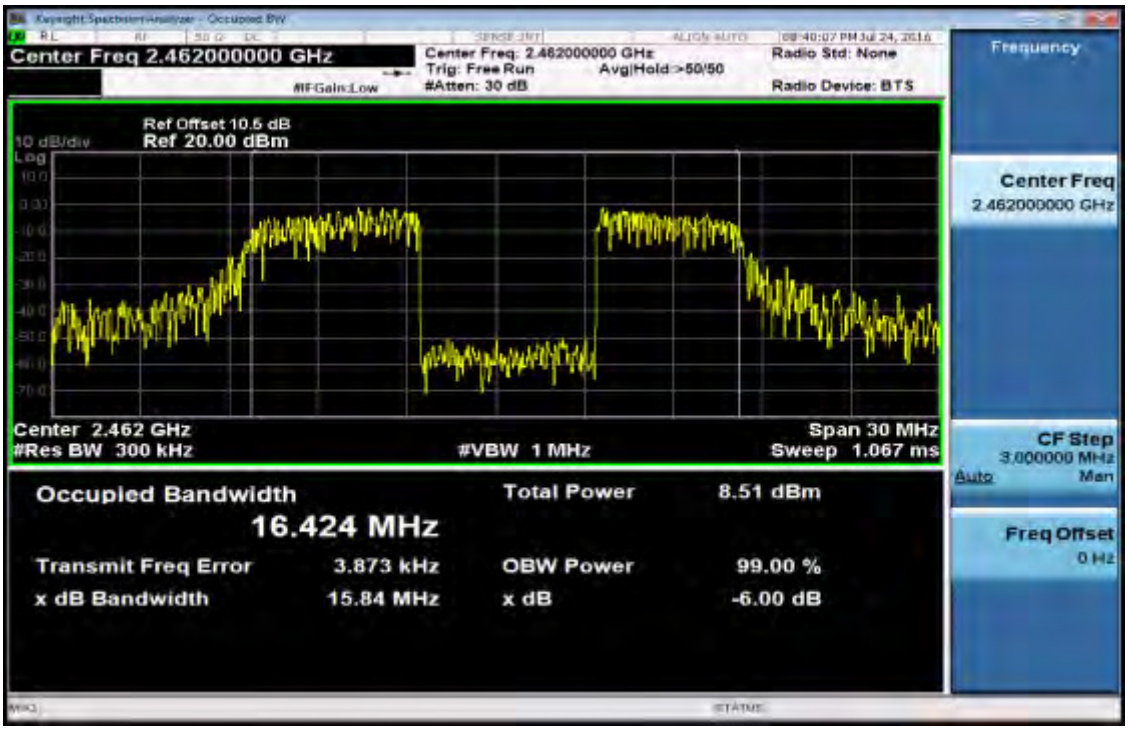
99% Band Width Test Data CH-High



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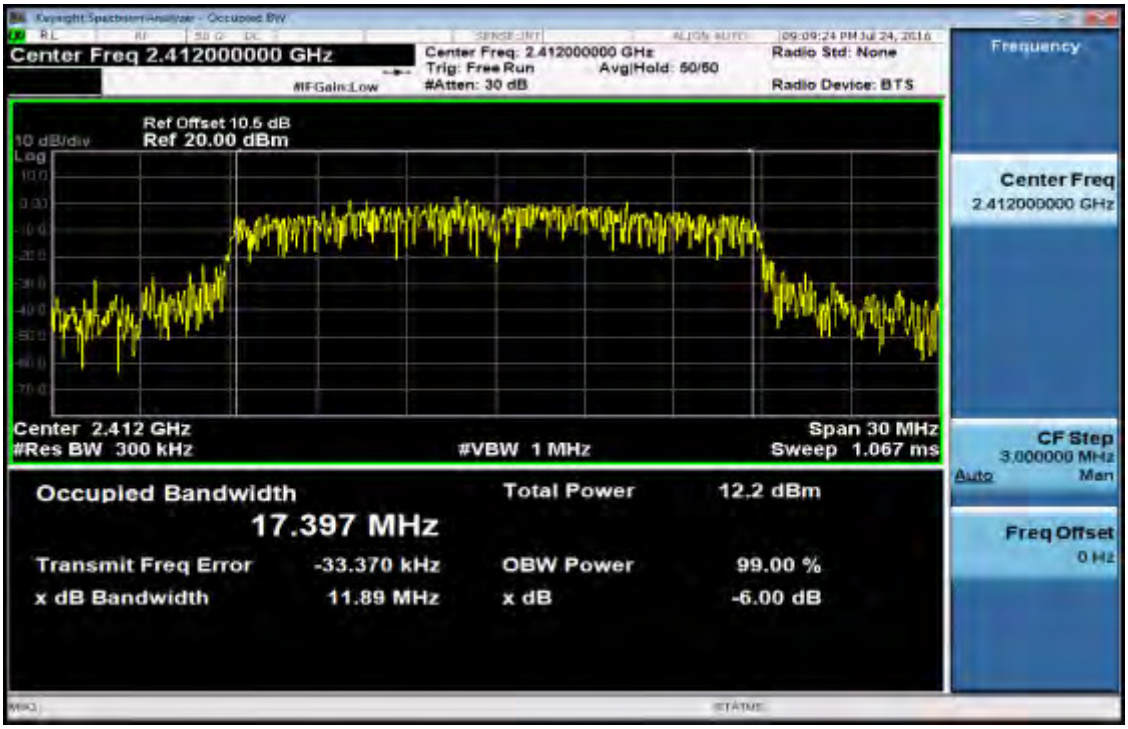
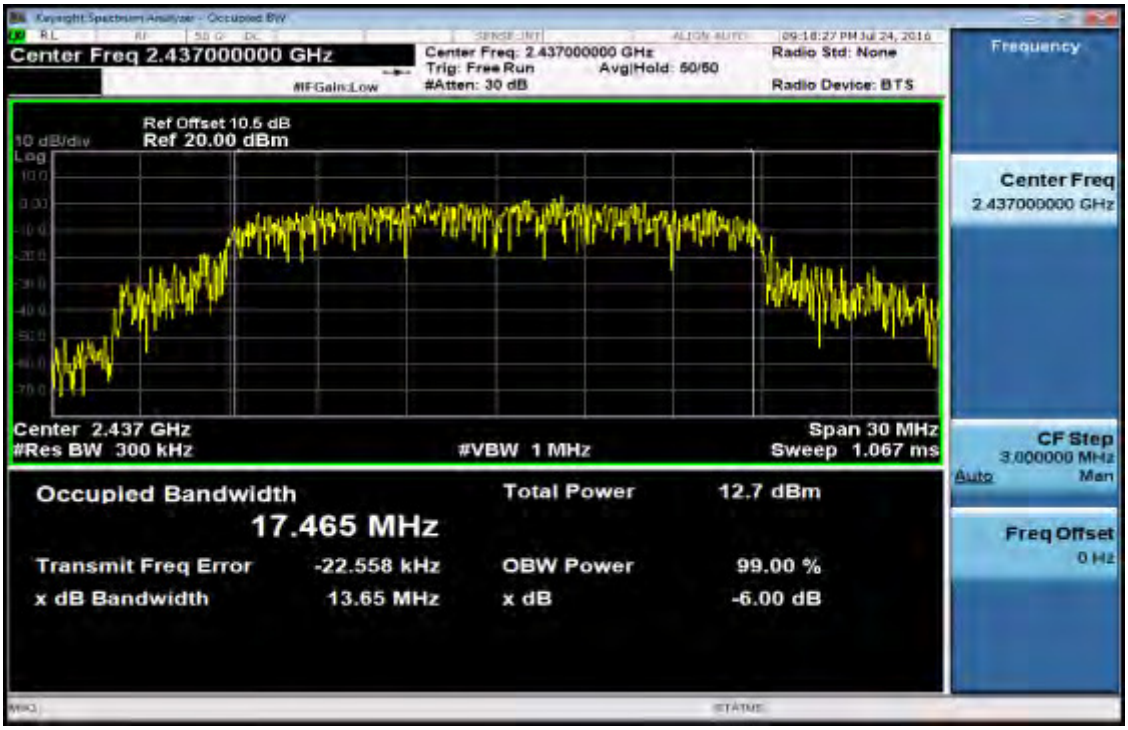
802.11n_20M (Main)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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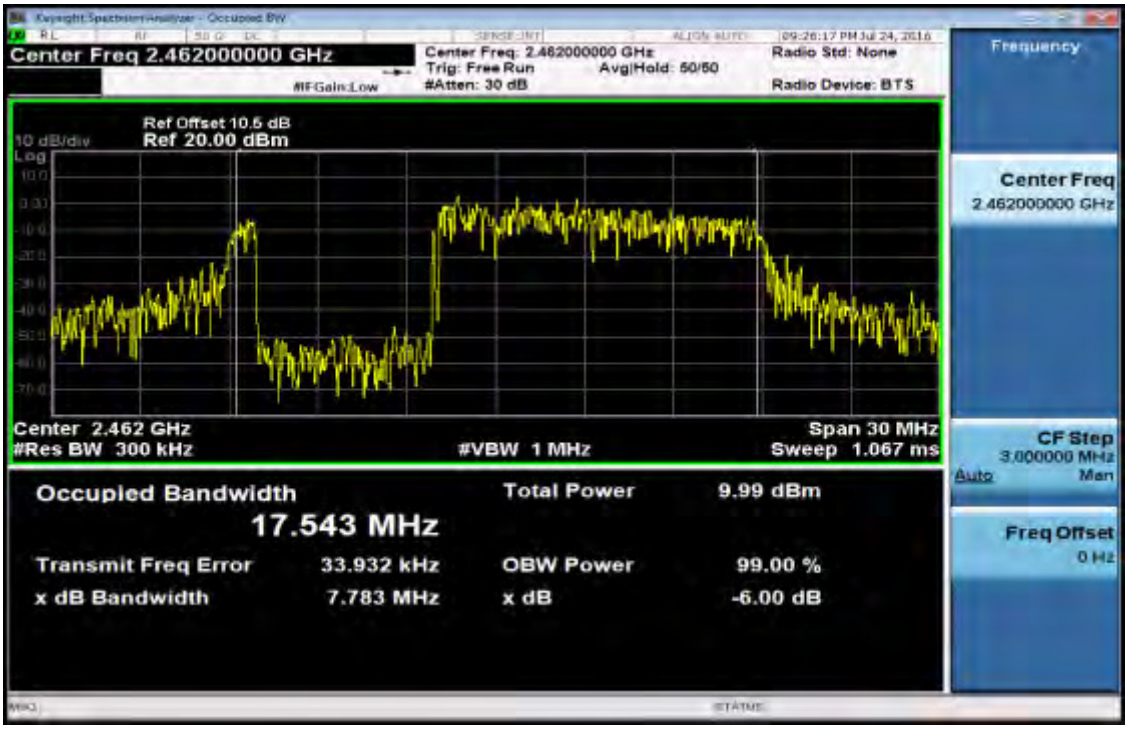
99% Band Width Test Data CH-High



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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.

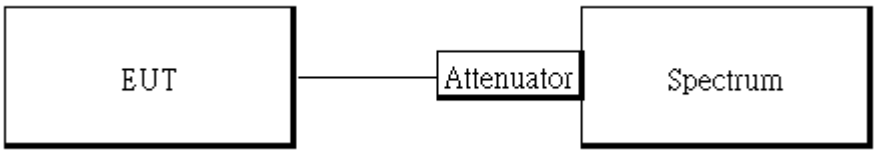
In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) & RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.8.

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	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
DC Block	PASTERNACK	PE8210	RF29	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016

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

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

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802.11b

Band Edges Test Data CH-Low

Band Edges Test Data CH-High

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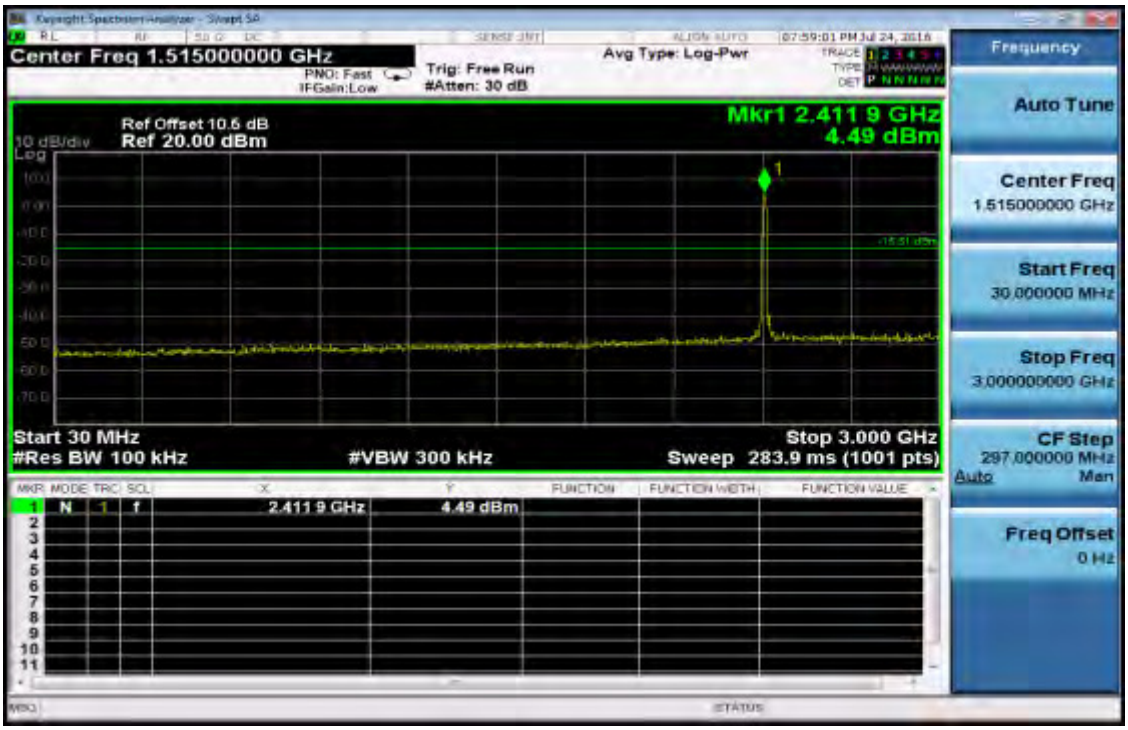
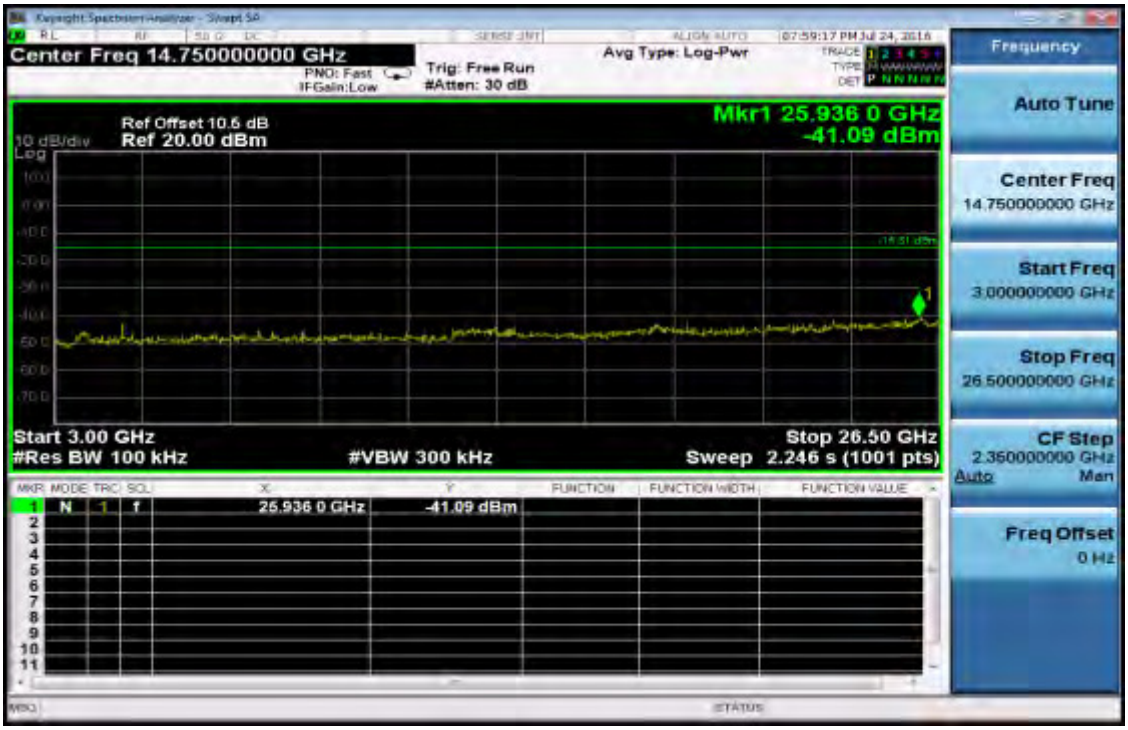
802.11b

Spurious Emission Test Data CH-Low





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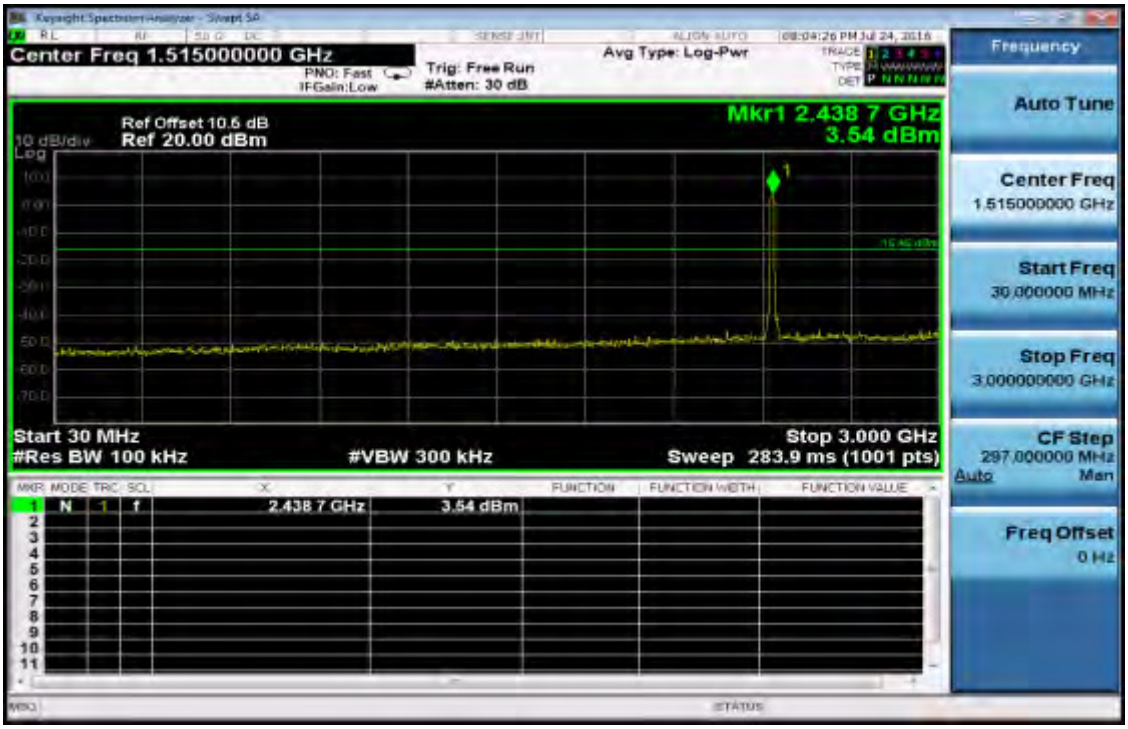
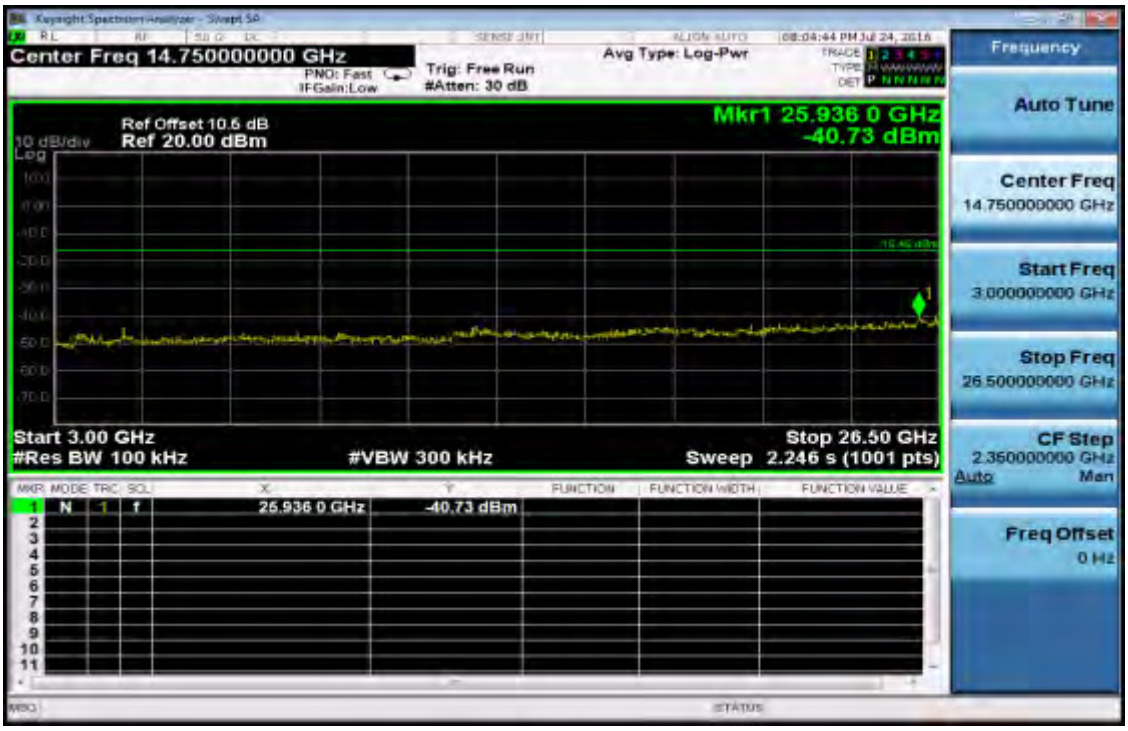
Spurious Emission Test Data CH-Mid





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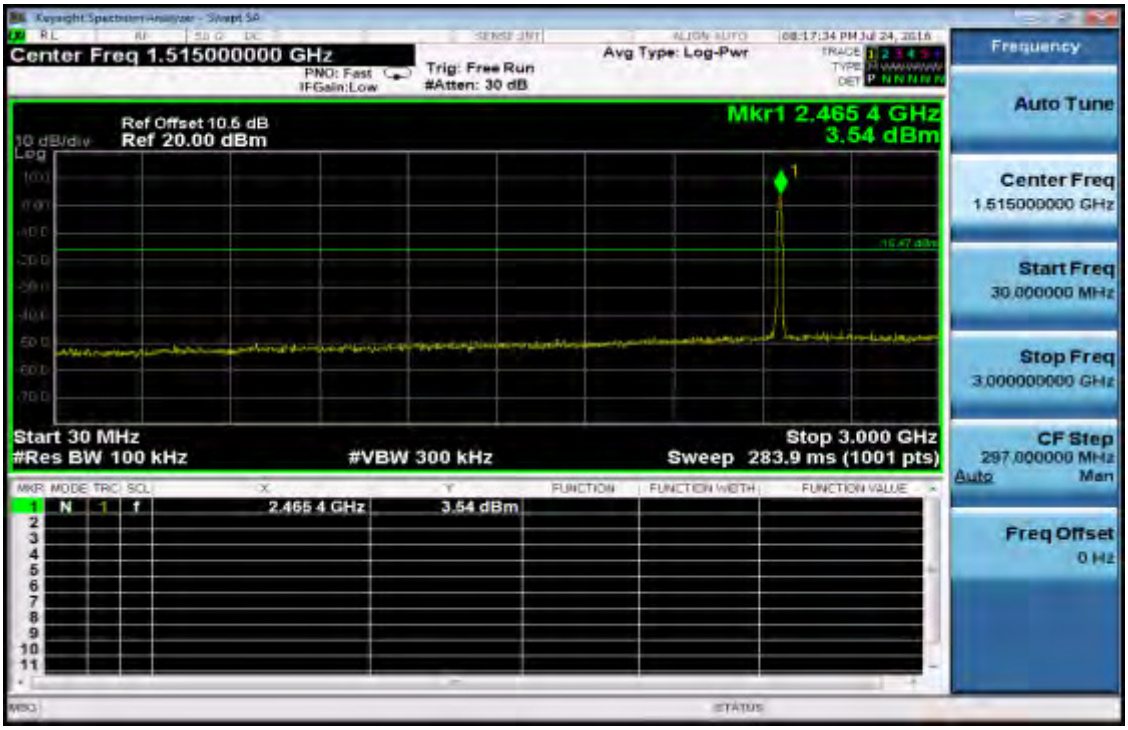
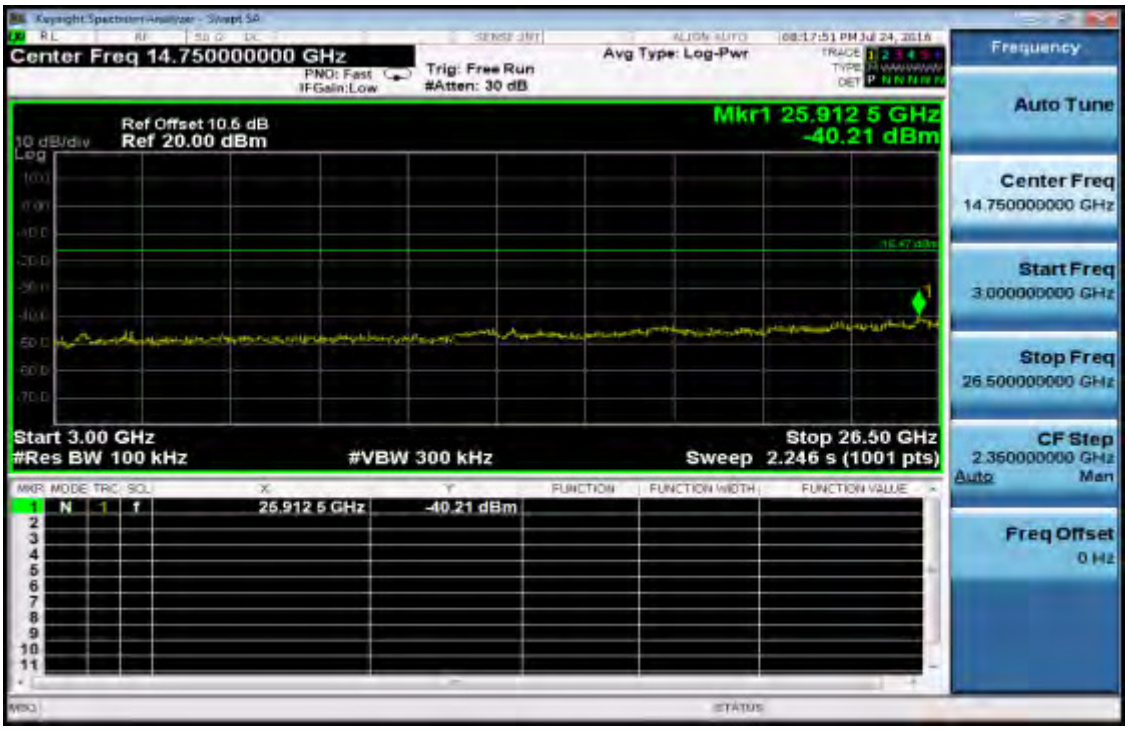
Spurious Emission Test Data CH-High





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802.11g
Band Edges Test Data CH-Low

Band Edges Test Data CH-High

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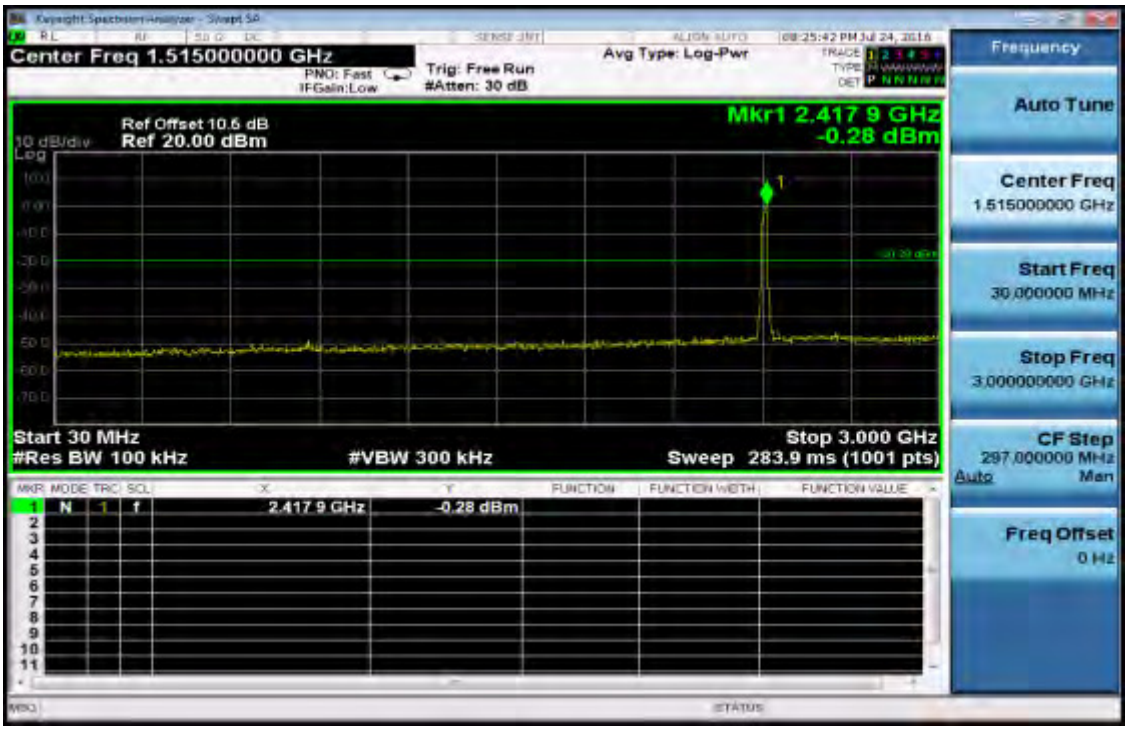
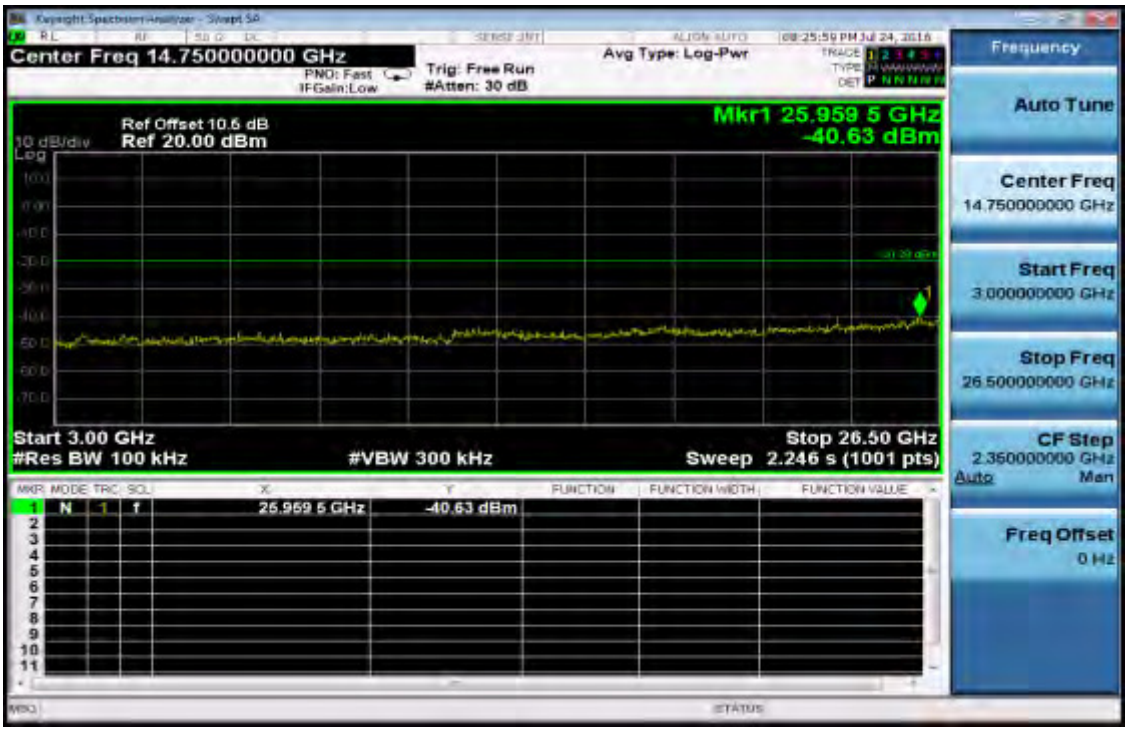
802.11g

Spurious Emission Test Data CH-Low





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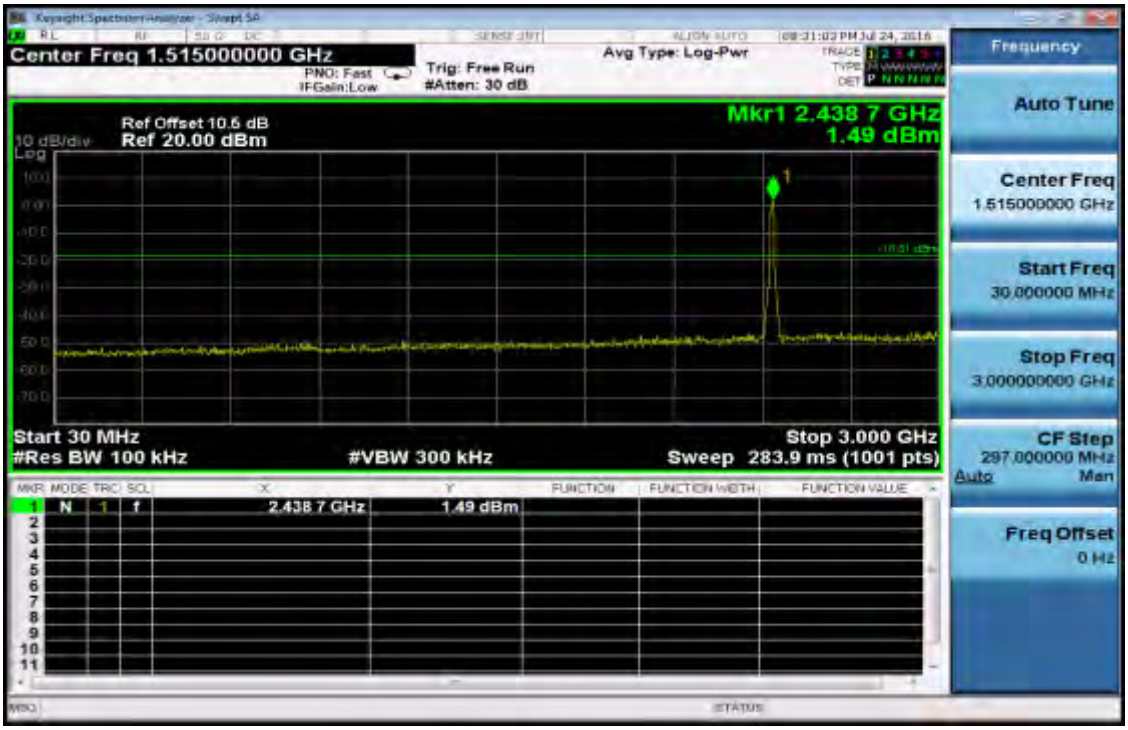
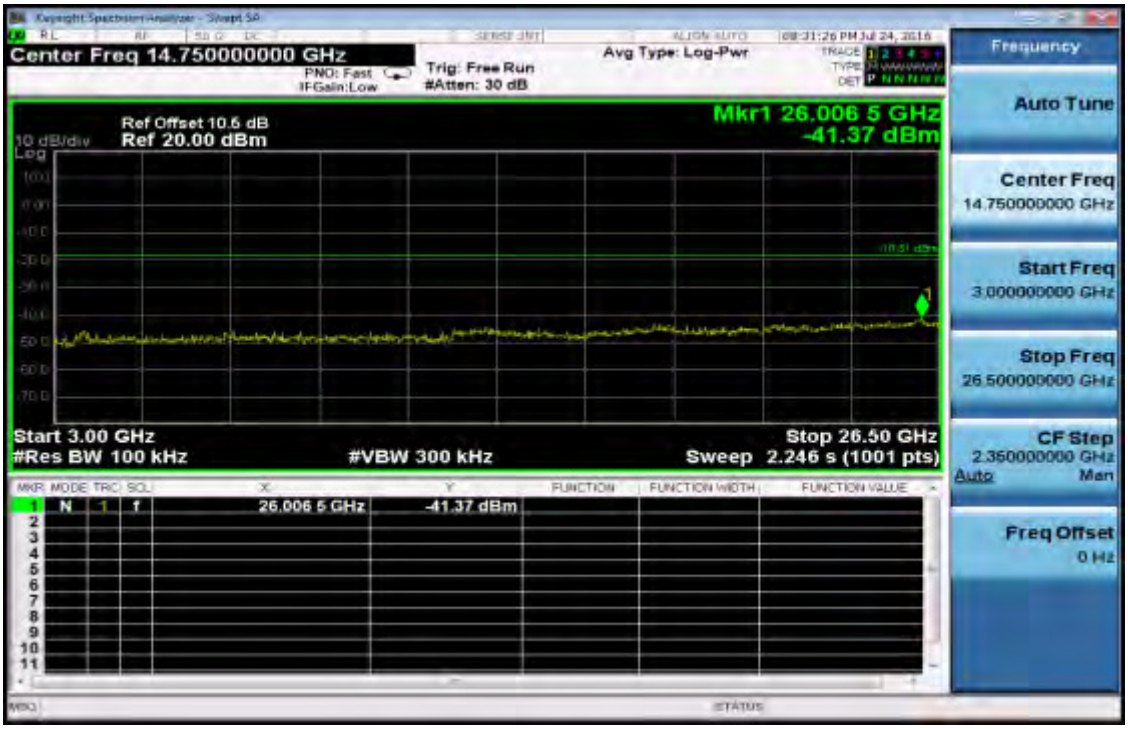
Spurious Emission Test Data CH-Mid





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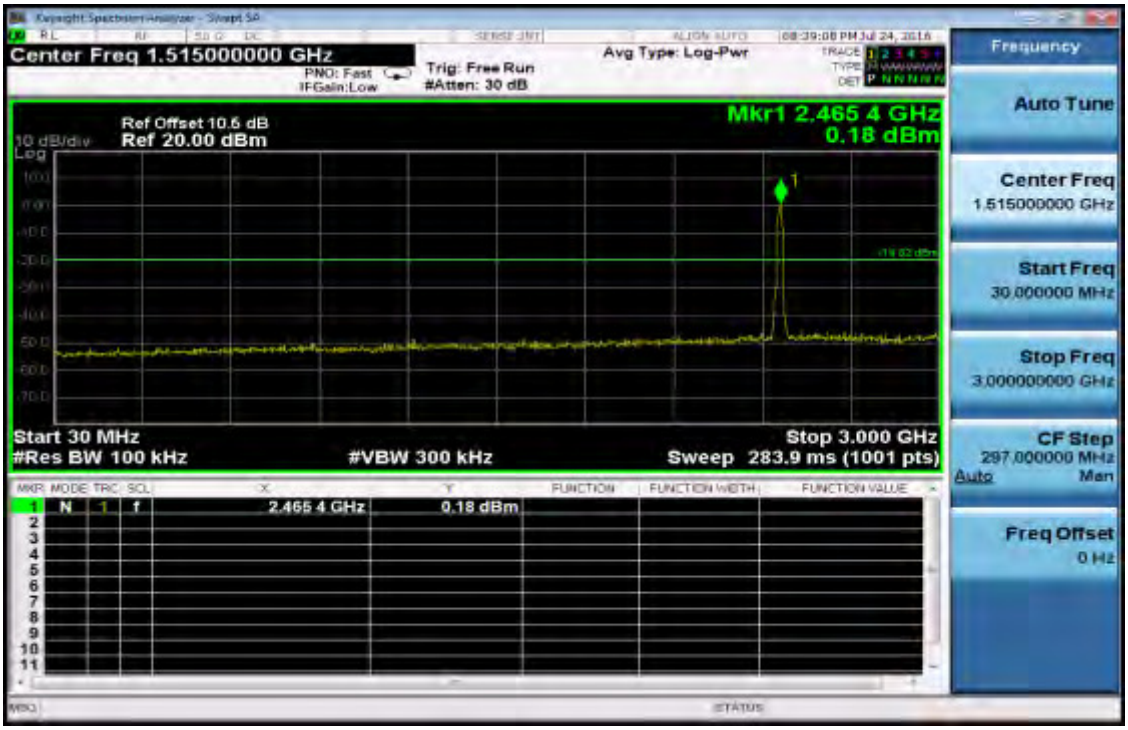
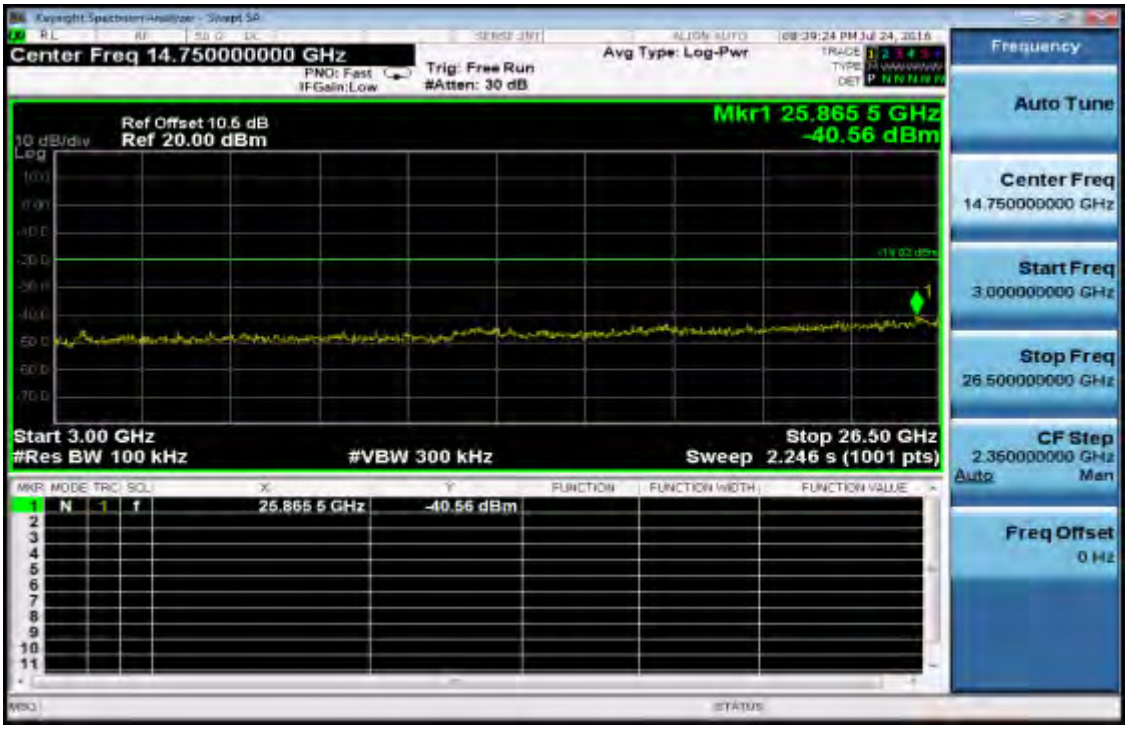
Spurious Emission Test Data CH-High





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802.11n_HT20
Band Edges Test Data CH-Low

Band Edges Test Data CH-High

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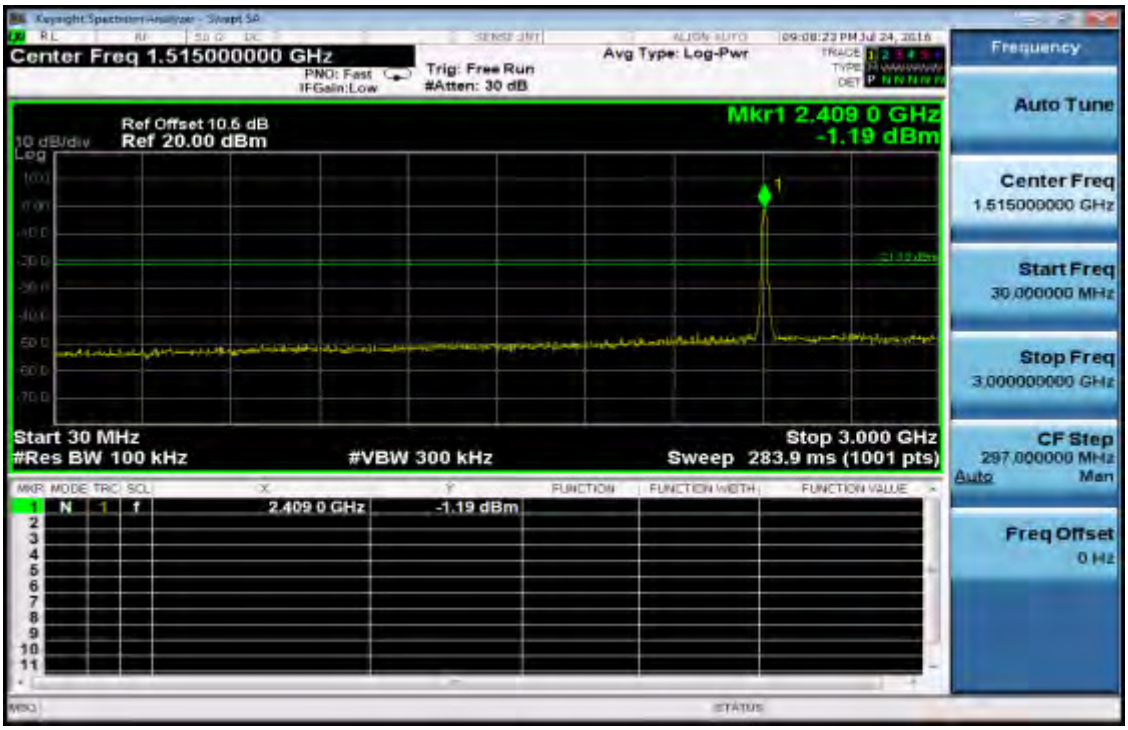
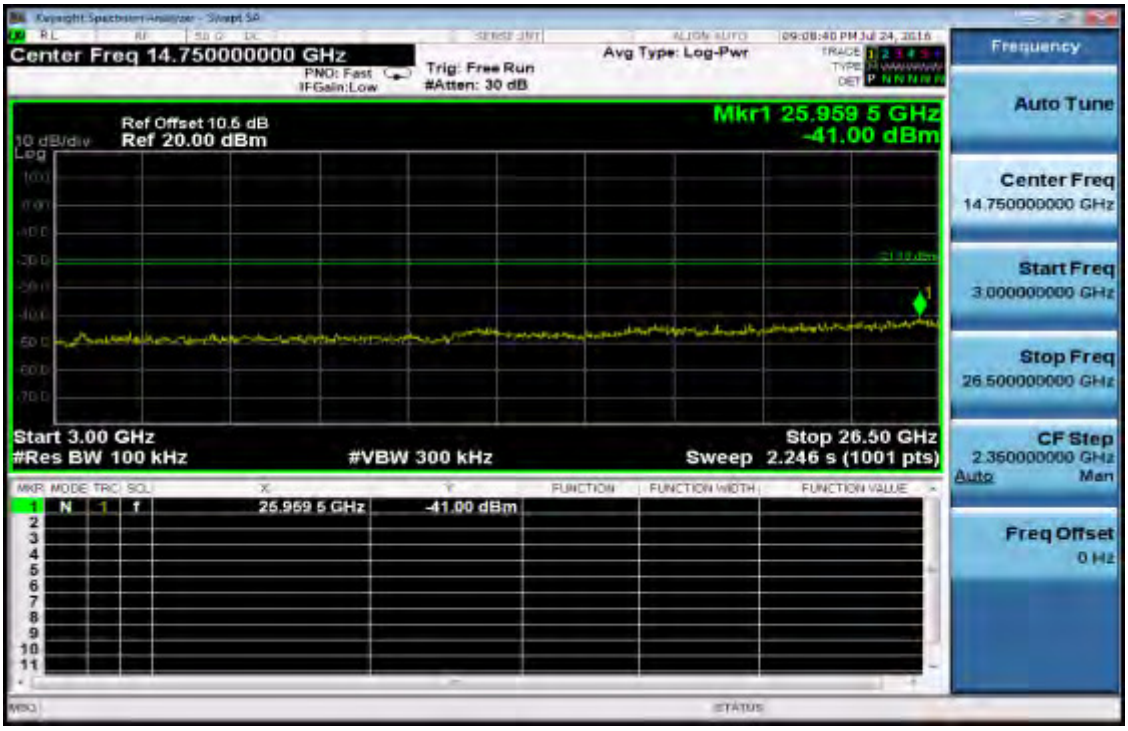
802.11n_HT20

Spurious Emission Test Data CH-Low





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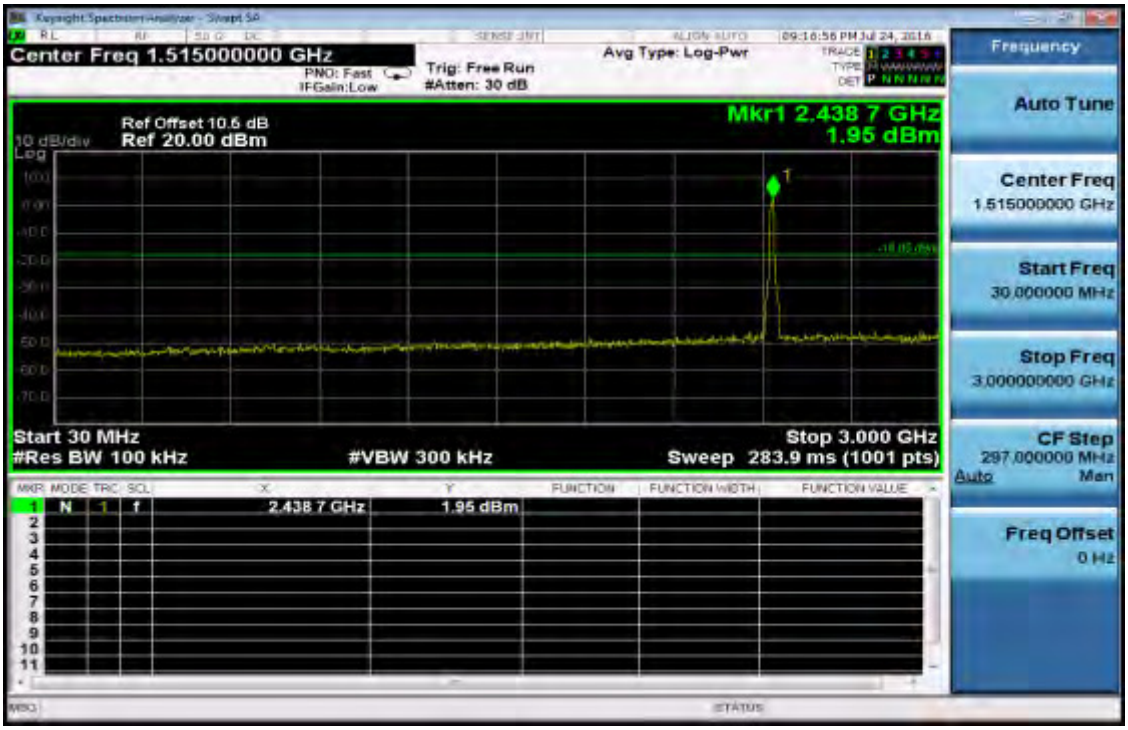
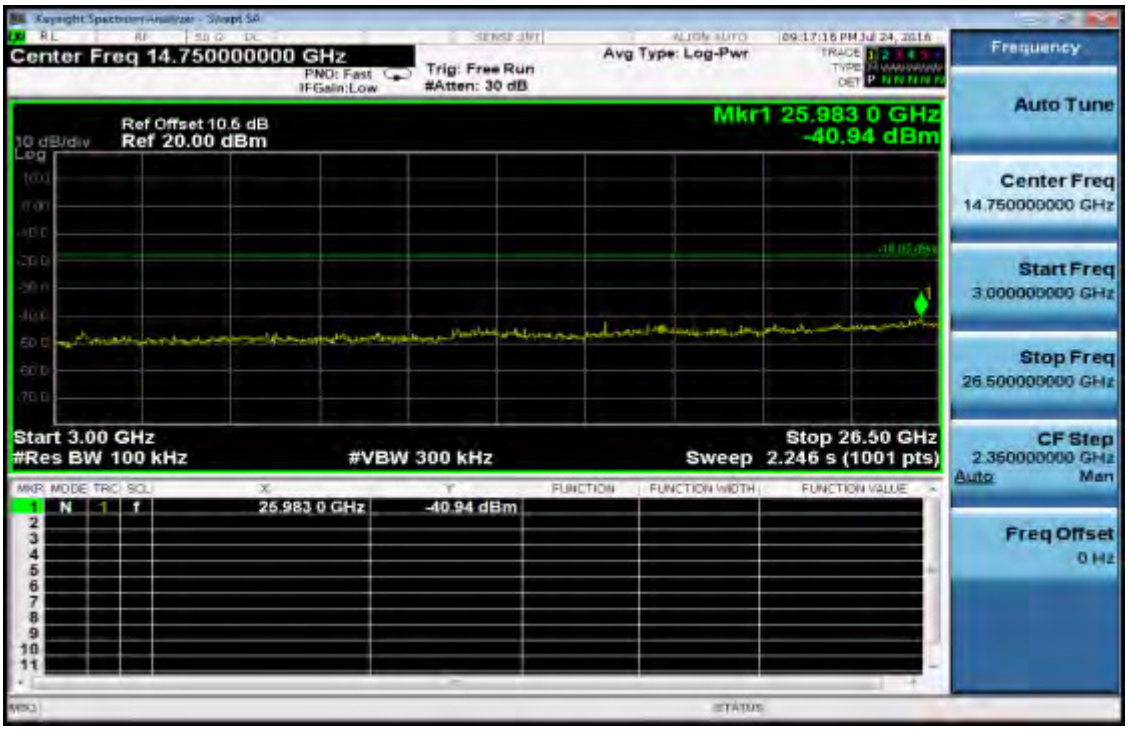
Spurious Emission Test Data CH-Mid





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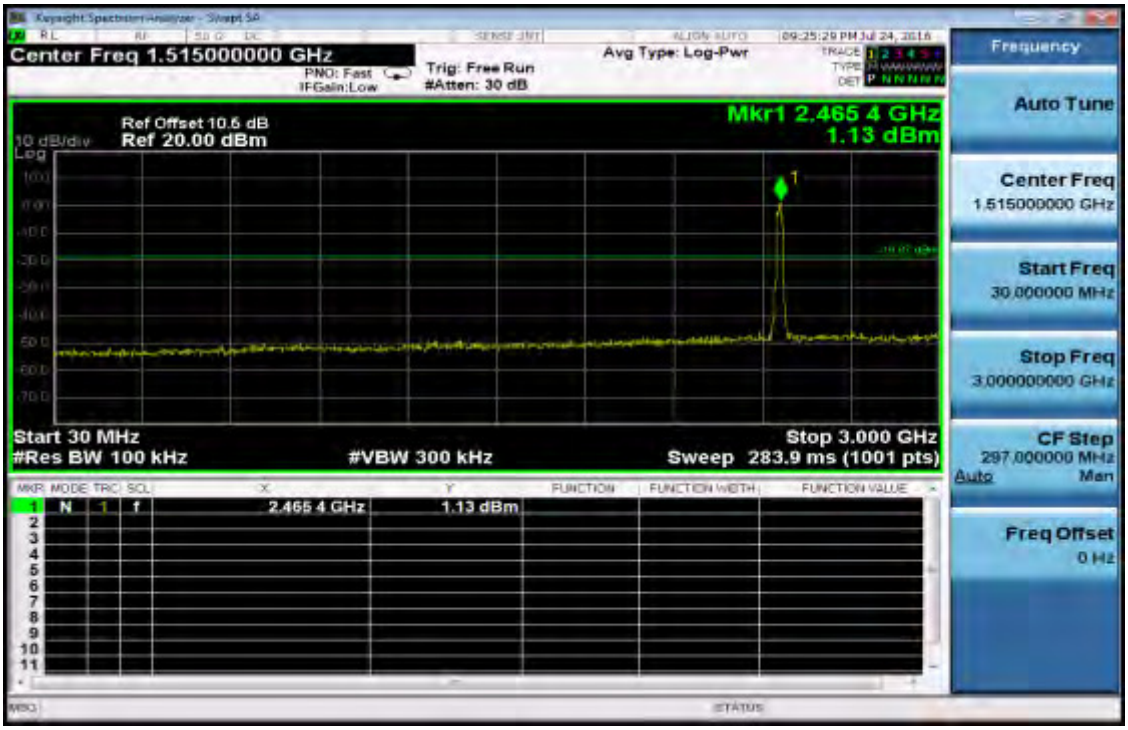
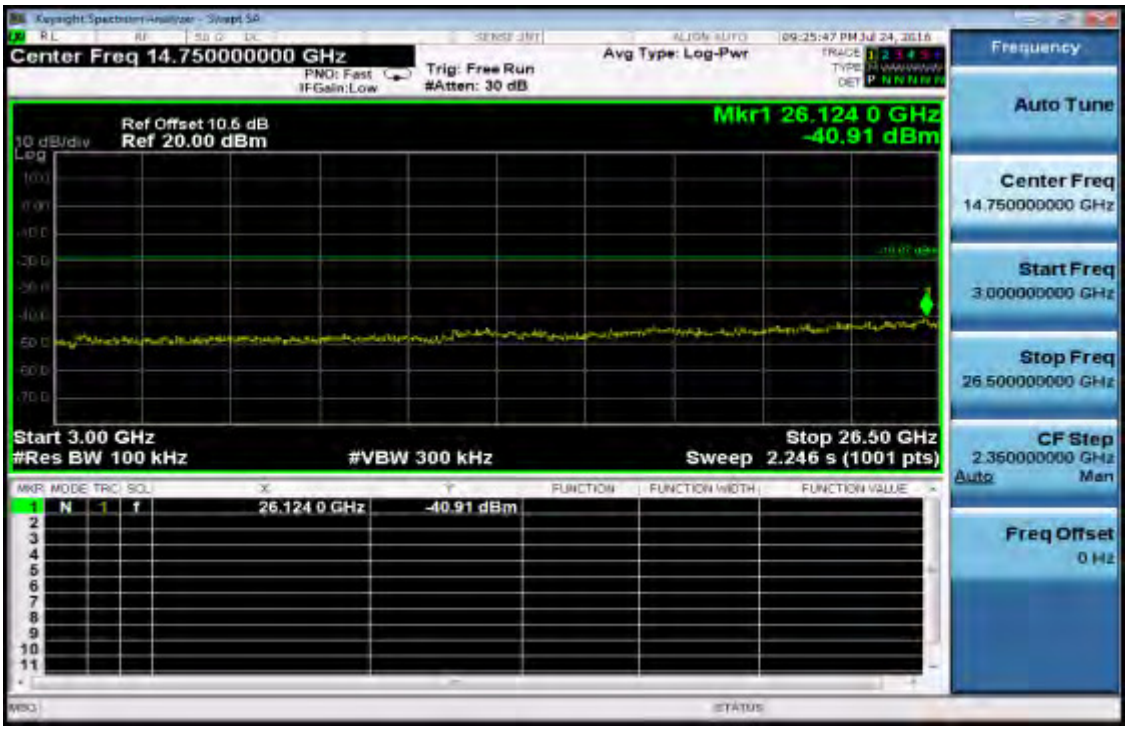
Spurious Emission Test Data CH-High





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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	ESU 40	100363	04/12/2016	04/11/2017
Loop Antenna	ETS-Lindgren	6502	00143303	12/23/2015	12/22/2016
Broadband Antenna	TESEQ	CBL 6112D	35240	10/28/2015	10/27/2016
Horn Antenna	ETS-Lindgren	3117	00143272	12/16/2015	12/15/2016
Horn Antenna	Schwarzbeck	BBHA9170	185	07/24/2015	07/23/2016
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2015	12/11/2016
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2015	12/11/2016
Pre Amplifier	R&S	SCU-18	10204	12/12/2015	12/11/2016
Pre Amplifier	R&S	SCU-26	100780	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF27	12/12/2015	12/11/2016
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2016	05/03/2017
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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

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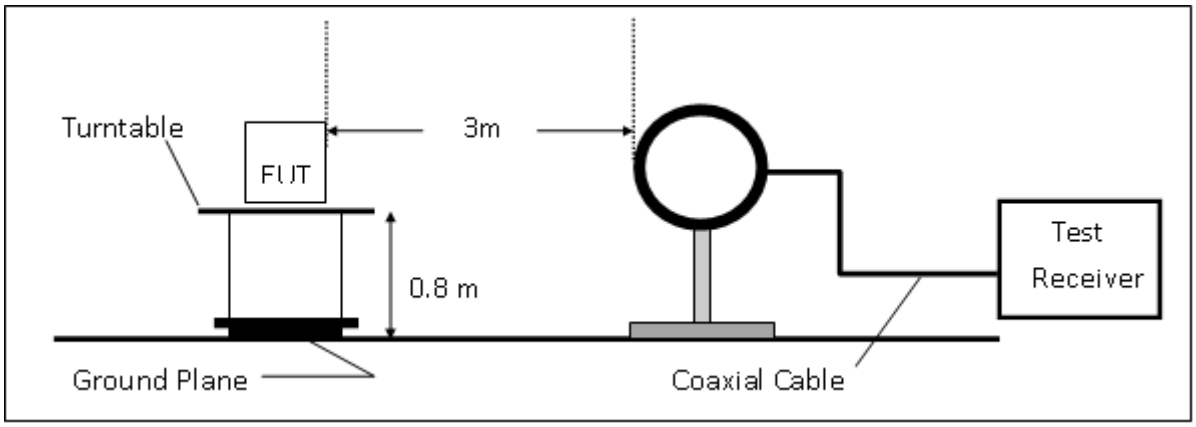
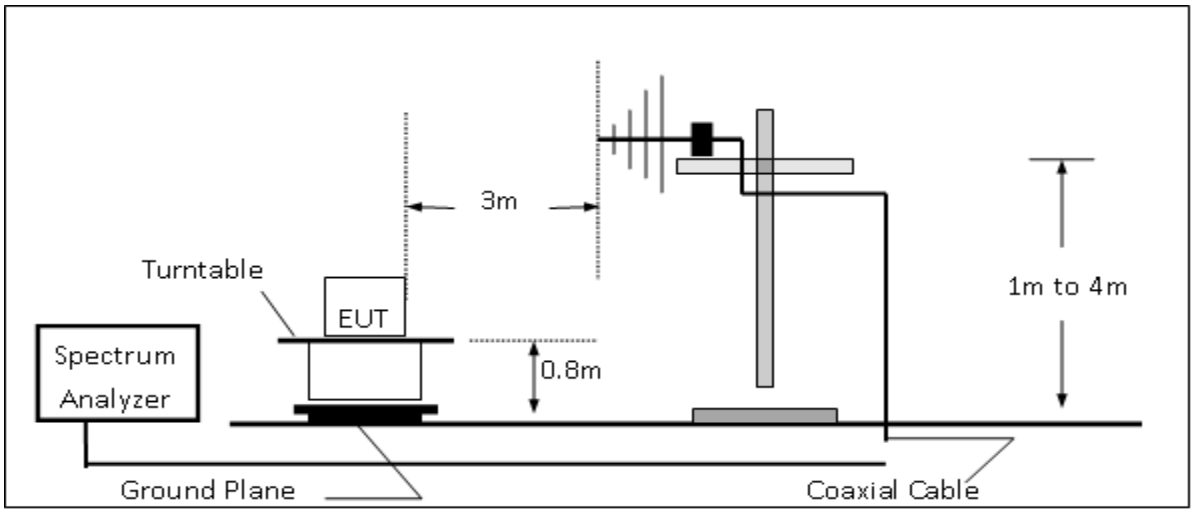
11.3 Test SET-UP

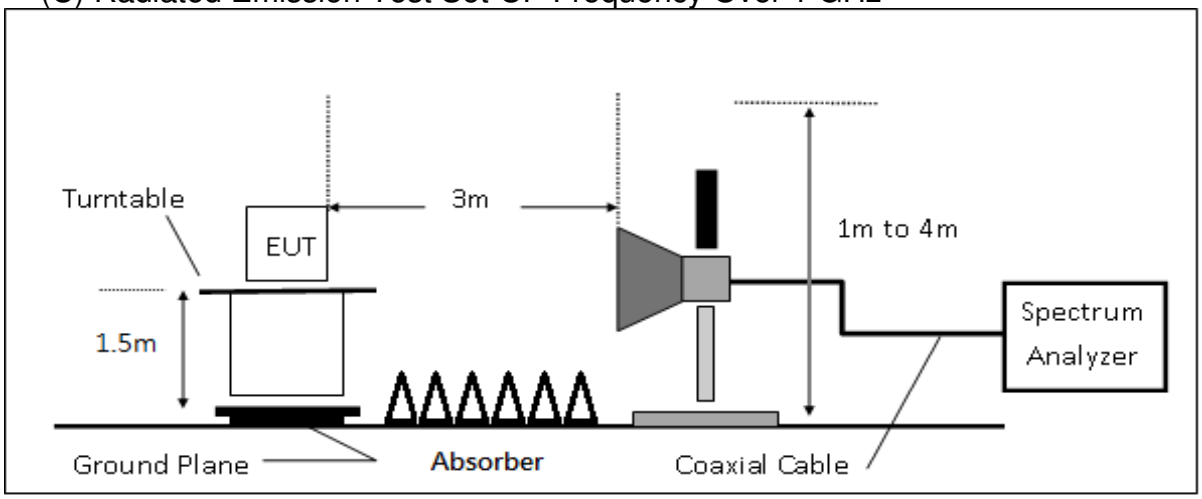
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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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Radiated Band Edge Measurement Result (802.11b)

Operation Mode :	802.11b	Test Date :	2016/7/18
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2386.20	S	Peak	61.91	-6.86	55.05	74	-18.95
2386.20	S	Average	47.72	-6.86	40.86	54	-13.14
2390.00	E	Peak	60.09	-6.84	53.25	74	-20.75
2390.00	E	Average	46.45	-6.84	39.61	54	-14.39

Operation Mode :	802.11b	Test Date :	2016/7/18
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2383.32	S	Peak	62.67	-6.87	55.81	74	-18.19
2383.32	S	Average	51.27	-6.87	44.40	54	-9.60
2390.00	E	Peak	59.97	-6.84	53.13	74	-20.87
2390.00	E	Average	47.82	-6.84	40.98	54	-13.02

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Operation Mode :	802.11b	Test Date :	2016/7/18
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2483.50	E	Peak	59.23	-6.38	52.84	74	-21.16
2483.50	E	Average	46.24	-6.38	39.86	54	-14.14

Operation Mode :	802.11b	Test Date :	2016/7/18
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2483.50	E	Peak	59.26	-6.38	52.87	74	-21.13
2483.50	E	Average	46.80	-6.38	40.42	54	-13.58

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Radiated Band Edge Measurement Result (802.11g)

Operation Mode :	802.11g	Test Date :	2016/7/18
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2390.00	E	Peak	69.69	-6.84	62.85	74	-11.15
2390.00	E	Average	48.65	-6.84	41.81	54	-12.19

Operation Mode :	802.11g	Test Date :	2016/7/18
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2390.00	E	Peak	73.41	-6.84	66.57	74	-7.43
2390.00	E	Average	49.43	-6.84	42.59	54	-11.41

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Operation Mode :	802.11g	Test Date :	2016/7/18
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	E	Peak	65.82	-6.38	59.44	74	-14.56
2483.50	E	Average	46.71	-6.38	40.33	54	-13.67

Operation Mode :	802.11g	Test Date :	2016/7/18
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	E	Peak	70.46	-6.38	64.08	74	-9.92
2483.50	E	Average	48.56	-6.38	42.18	54	-11.82

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Radiated Band Edge Measurement Result (802.11_HT20)

Operation Mode :	802.11n20	Test Date :	2016/7/18
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2390.00	E	Peak	74.06	-6.84	67.21	74	-6.79
2390.00	E	Average	50.60	-6.84	43.76	54	-10.24

Operation Mode :	802.11n20	Test Date :	2016/7/18
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2390.00	E	Peak	75.65	-6.84	68.80	74	-5.20
2390.00	E	Average	52.66	-6.84	45.82	54	-8.18

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Operation Mode :	802.11n20	Test Date :	2016/7/18
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	E	Peak	64.41	-6.38	58.02	74	-15.98
2483.50	E	Average	46.85	-6.38	40.47	54	-13.53

Operation Mode :	802.11n20	Test Date :	2016/7/18
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	E	Peak	71.11	-6.38	64.73	74	-9.27
2483.50	E	Average	49.30	-6.38	42.92	54	-11.08
2484.20	S	Peak	71.66	-6.38	65.28	74	-8.72
2484.20	S	Average	48.80	-6.38	42.42	54	-11.58

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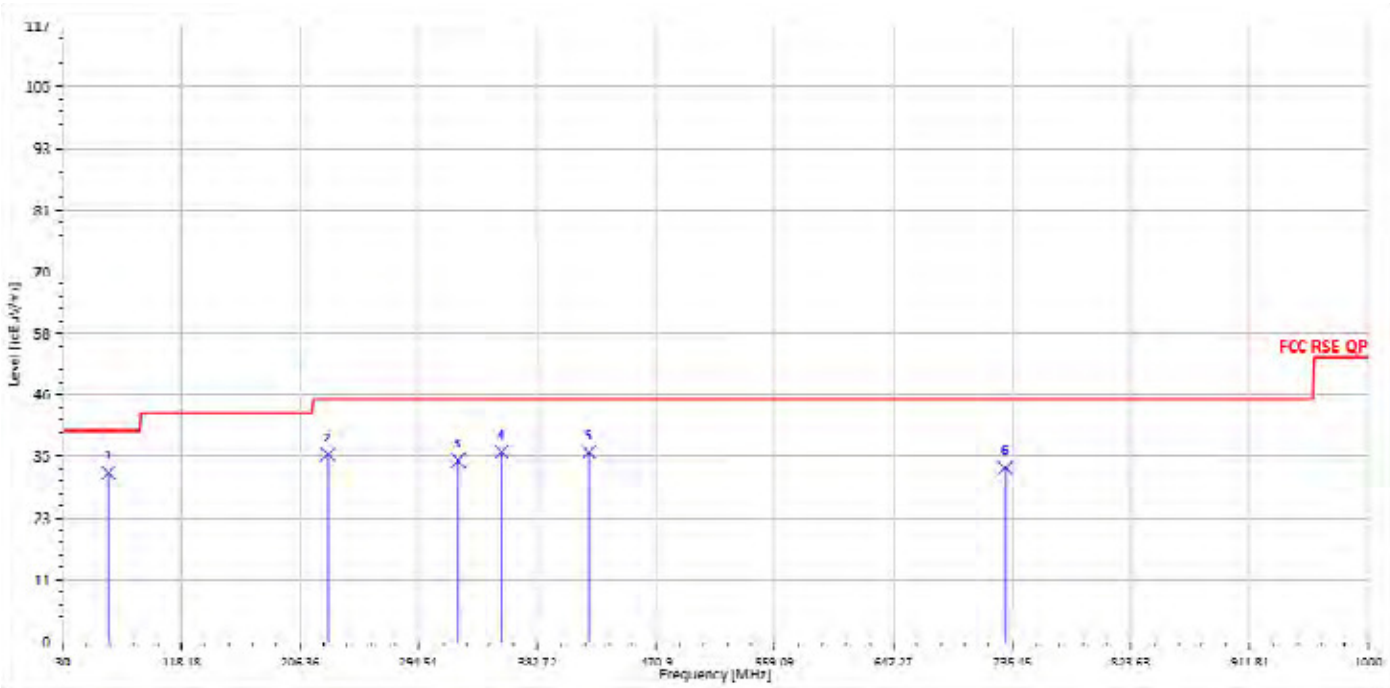
Below 1GHz Worst-Case Data:

Radiated Spurious Emission Measurement Result (802.11 g)

Operation Mode :	802.11g	Test Date :	2016/7/22
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH LOW	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
63.95	S	Peak	50.56	-18.52	32.04	40	-7.96
226.91	S	Peak	53.52	-18.01	35.52	46	-10.48
323.91	S	Peak	49.03	-14.62	34.41	46	-11.59
355.92	S	Peak	50.11	-14.12	36.00	46	-10.00
420.91	S	Peak	48.00	-12.09	35.91	46	-10.09
730.34	S	Peak	40.74	-7.73	33.02	46	-12.98

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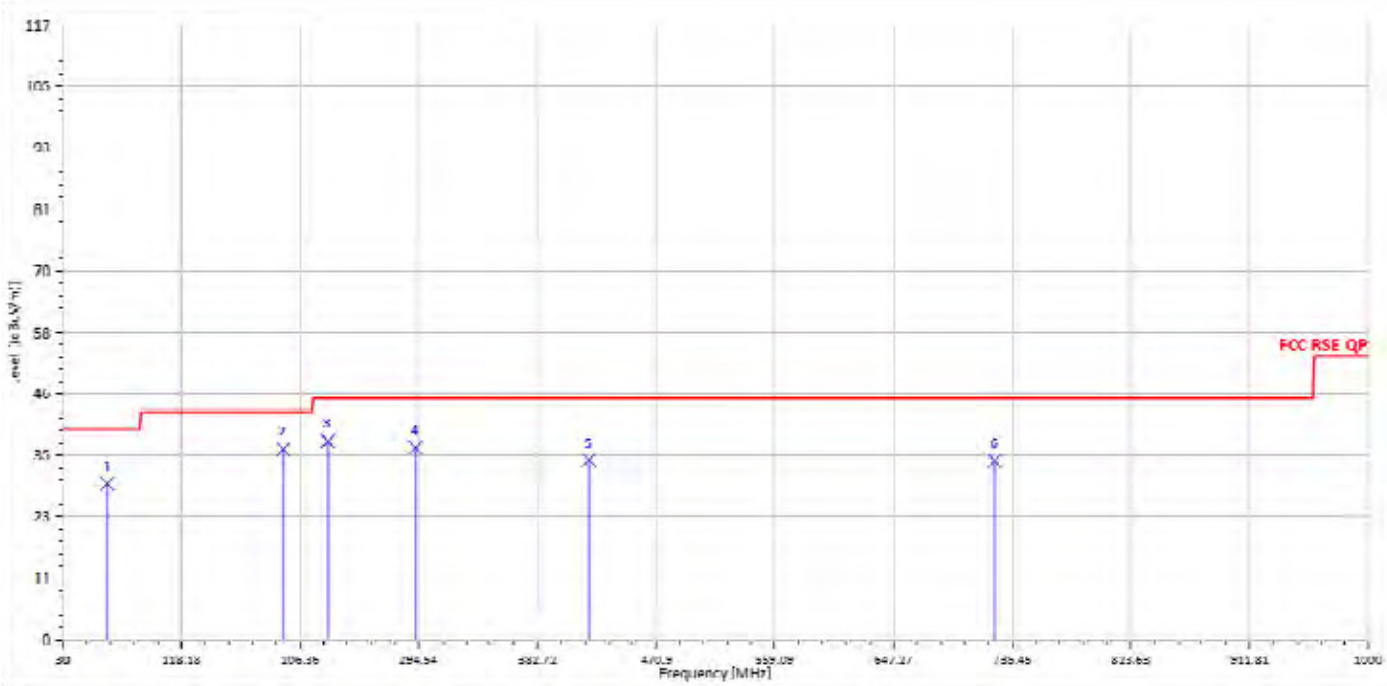
Operation Mode :	802.11g	Test Date :	2016/7/22
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH LOW	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
62.98	S	Peak	48.09	-18.39	29.70	40	-10.30
193.93	S	Peak	55.00	-18.69	36.30	43.5	-7.20
226.91	S	Peak	55.81	-18.01	37.81	46	-8.19
291.90	S	Peak	52.00	-15.45	36.55	46	-9.45
420.91	S	Peak	46.26	-12.09	34.17	46	-11.83
722.58	S	Peak	41.62	-7.58	34.03	46	-11.97

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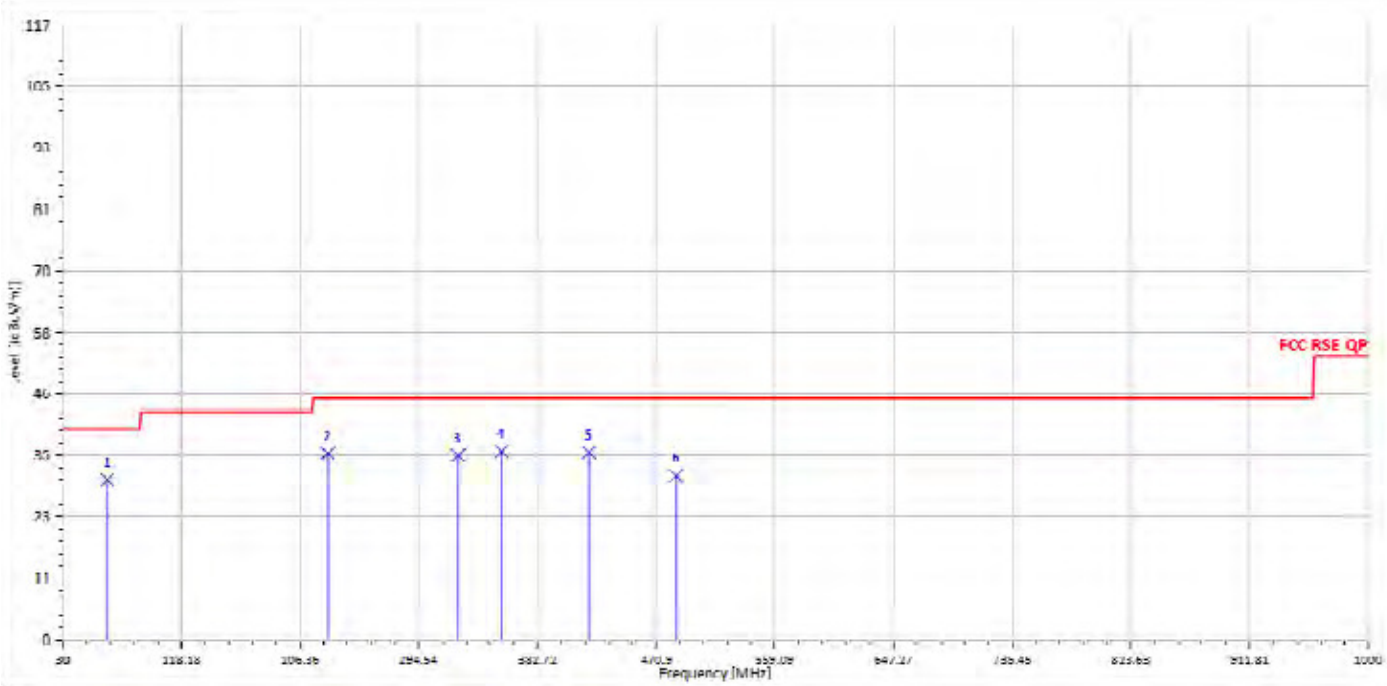
Operation Mode :	802.11g	Test Date :	2016/7/22
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH MID	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
62.98	S	Peak	48.84	-18.39	30.46	40	-9.54
226.91	S	Peak	53.43	-18.01	35.43	46	-10.57
323.91	S	Peak	49.67	-14.62	35.05	46	-10.95
355.92	S	Peak	49.93	-14.12	35.81	46	-10.19
420.91	S	Peak	47.75	-12.09	35.66	46	-10.34
485.90	S	Peak	42.49	-11.20	31.29	46	-14.71

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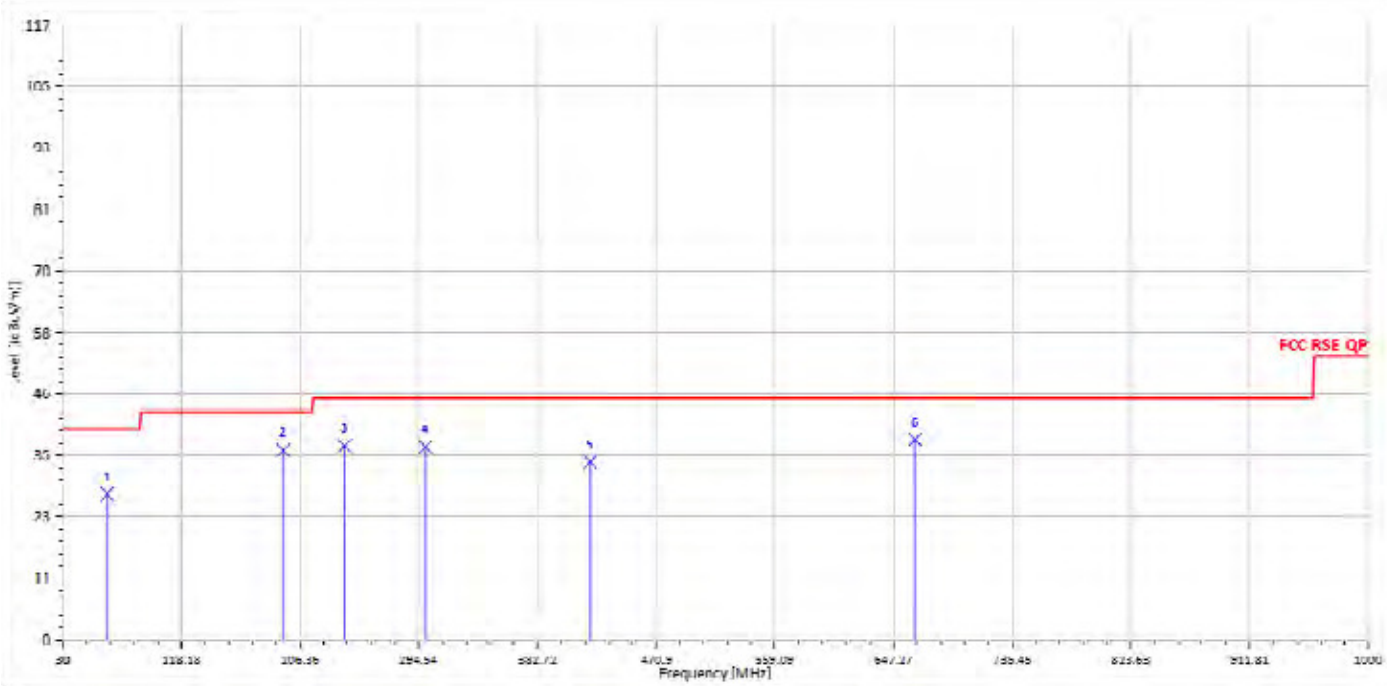
Operation Mode :	802.11g	Test Date :	2016/7/22
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH MID	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
62.98	S	Peak	46.15	-18.39	27.77	40	-12.23
193.93	S	Peak	54.80	-18.69	36.10	43.5	-7.40
239.52	S	Peak	53.94	-17.00	36.93	46	-9.07
299.66	S	Peak	52.13	-15.37	36.76	46	-9.24
421.88	S	Peak	45.97	-12.14	33.82	46	-12.18
663.41	S	Peak	46.43	-8.32	38.11	46	-7.89

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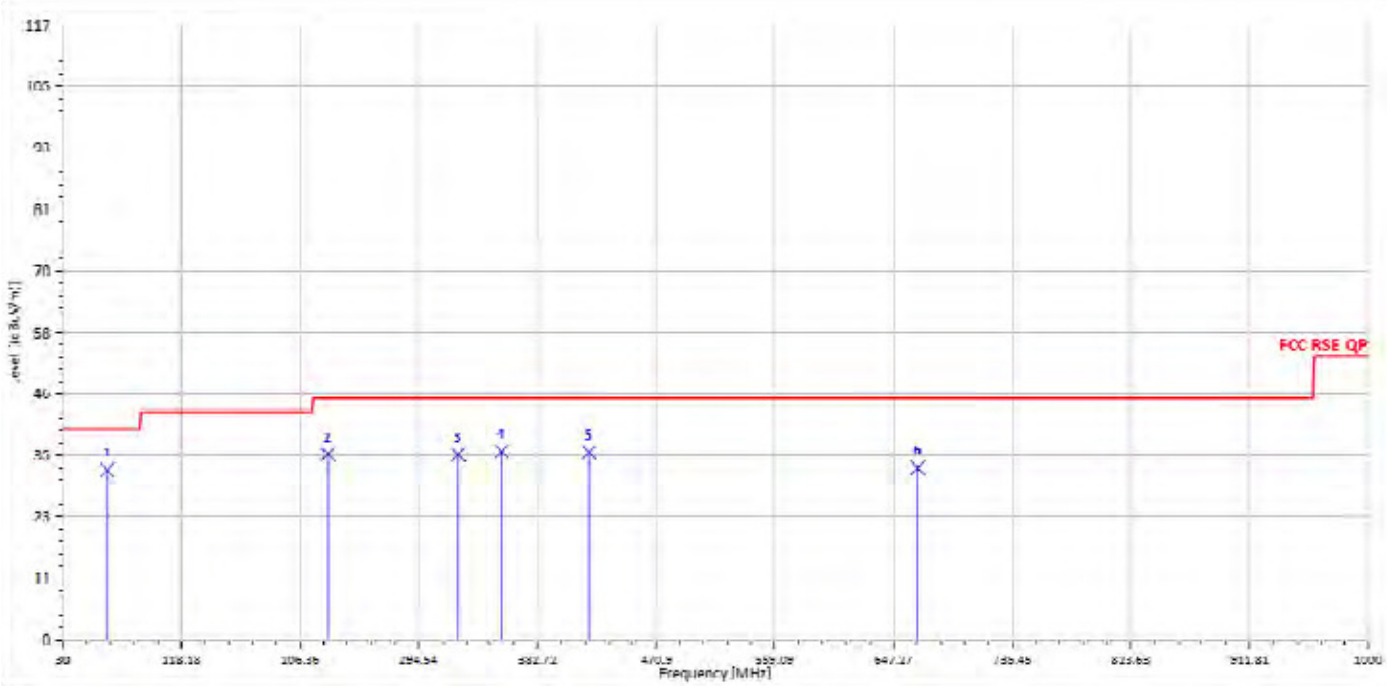
Operation Mode :	802.11g	Test Date :	2016/7/22
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
62.98	S	Peak	50.69	-18.39	32.30	40	-7.70
226.91	S	Peak	53.33	-18.01	35.33	46	-10.67
323.91	S	Peak	49.88	-14.62	35.26	46	-10.74
355.92	S	Peak	49.94	-14.12	35.82	46	-10.18
420.91	S	Peak	47.77	-12.09	35.69	46	-10.31
665.35	S	Peak	41.15	-8.43	32.73	46	-13.27

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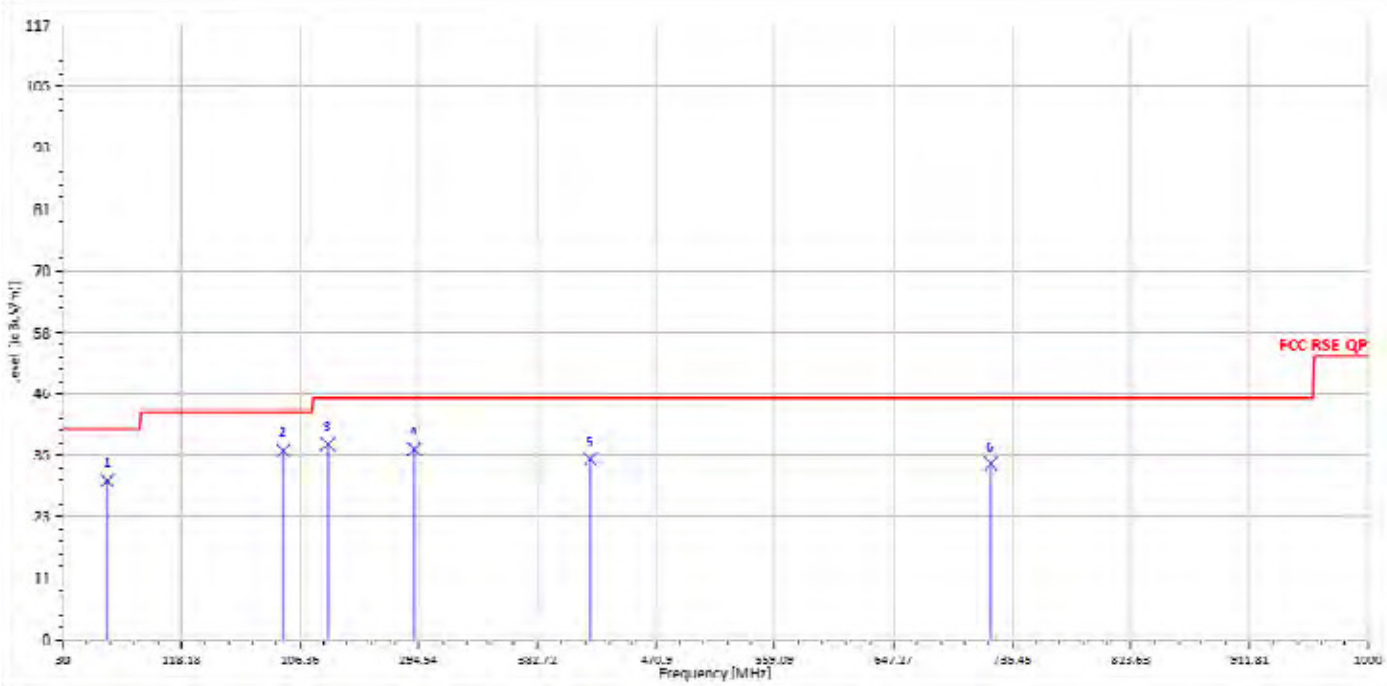
Operation Mode :	802.11g	Test Date :	2016/7/22
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
62.98	S	Peak	48.67	-18.39	30.29	40	-9.71
193.93	S	Peak	54.71	-18.69	36.02	43.5	-7.48
226.91	S	Peak	55.27	-18.01	37.27	46	-8.73
290.93	S	Peak	51.76	-15.45	36.31	46	-9.69
421.88	S	Peak	46.46	-12.14	34.31	46	-11.69
719.67	S	Peak	41.05	-7.53	33.53	46	-12.47

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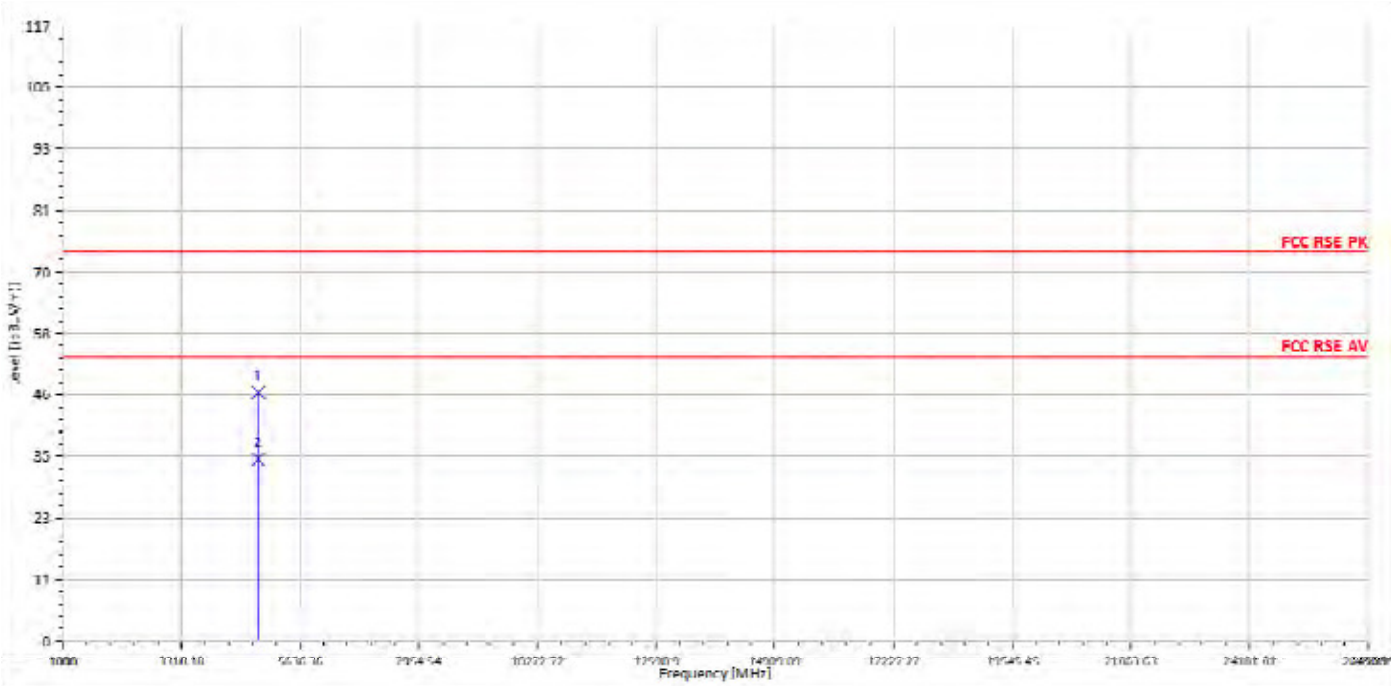
Above 1GHz Data:

Radiated Spurious Emission Measurement Result (802.11 b)

Operation Mode :	802.11b	Test Date :	2016/7/21
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH LOW	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4824.00	H	Peak	48.28	-1.04	47.24	74	-26.76
4824.00	H	Average	35.62	-1.04	34.58	54	-19.42

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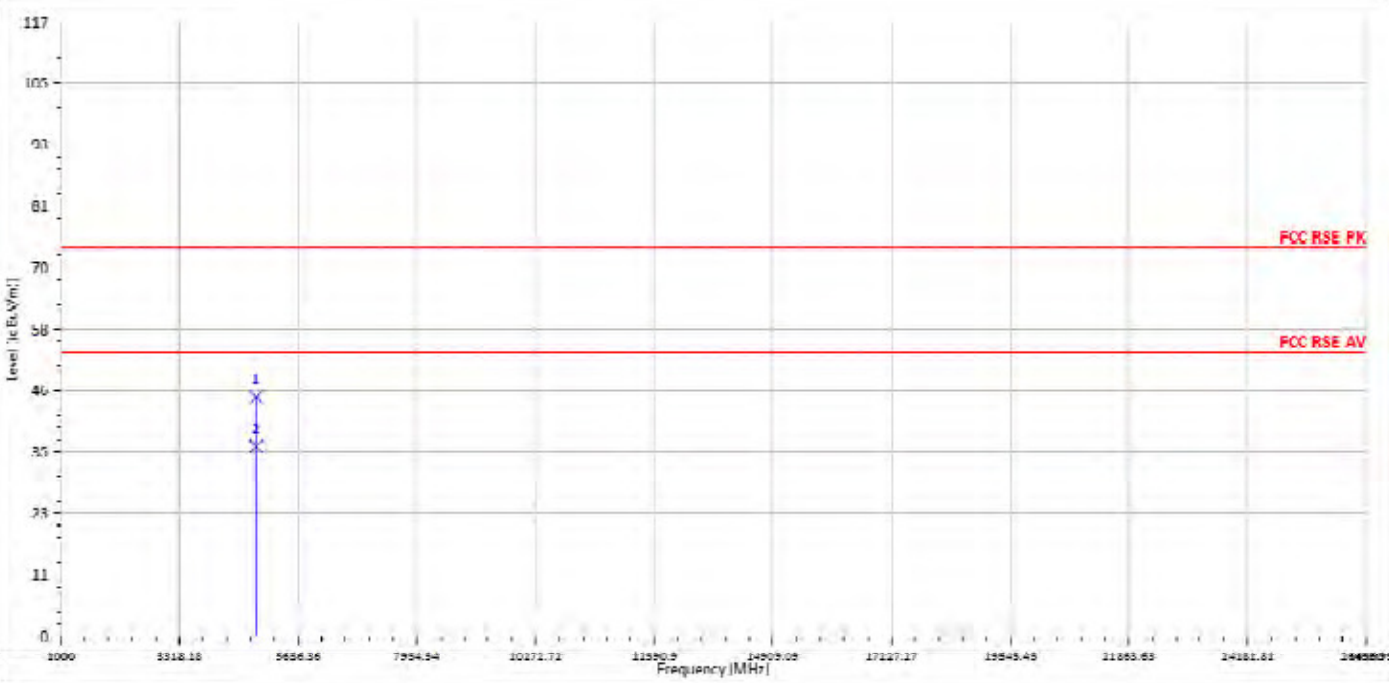
Operation Mode :	802.11b	Test Date :	2016/7/21
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH LOW	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4824.00	H	Peak	46.59	-1.04	45.55	74	-28.45
4824.00	H	Average	37.20	-1.04	36.16	54	-17.84

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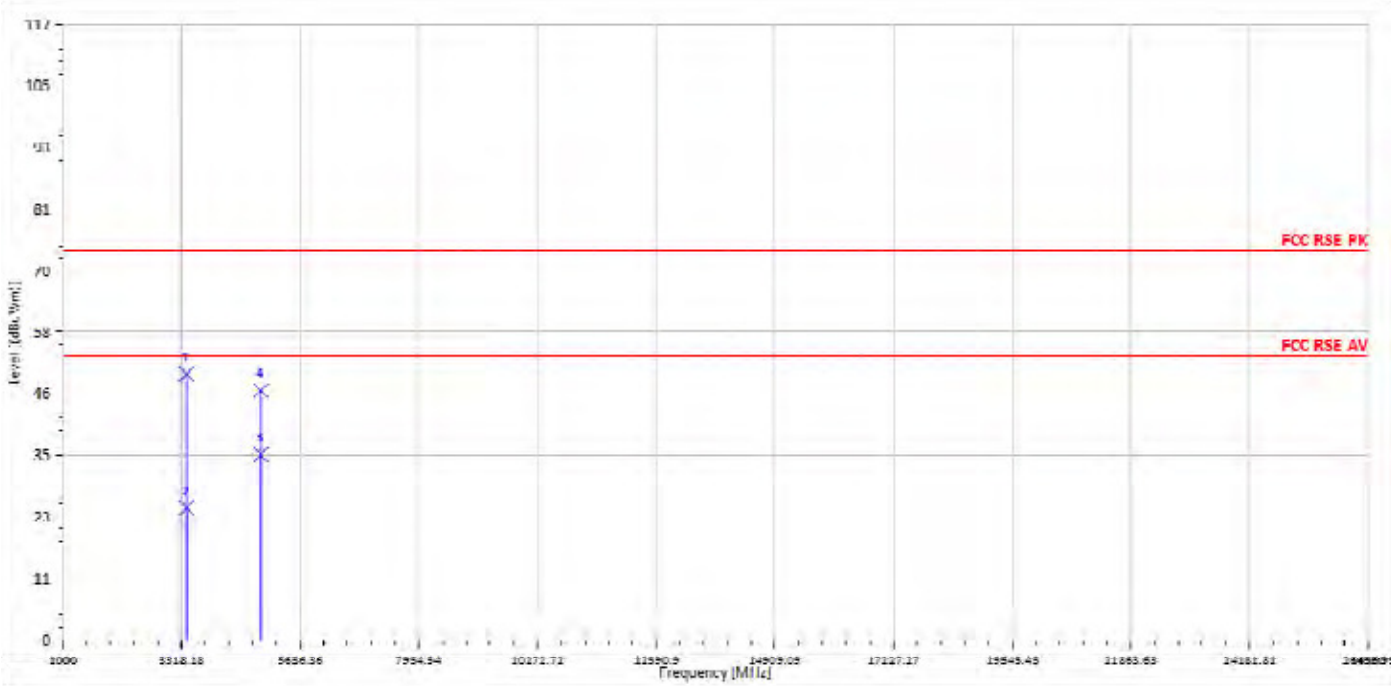
Operation Mode :	802.11b	Test Date :	2016/7/21
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH MID	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
3415.00	S	Peak	55.63	-5.07	50.55	74	-23.45
3415.00	S	Average	30.15	-5.07	25.08	54	-28.92
4874.00	H	Average	36.00	-0.75	35.25	54	-18.75
4874.00	H	Peak	48.13	-0.75	47.38	74	-26.62

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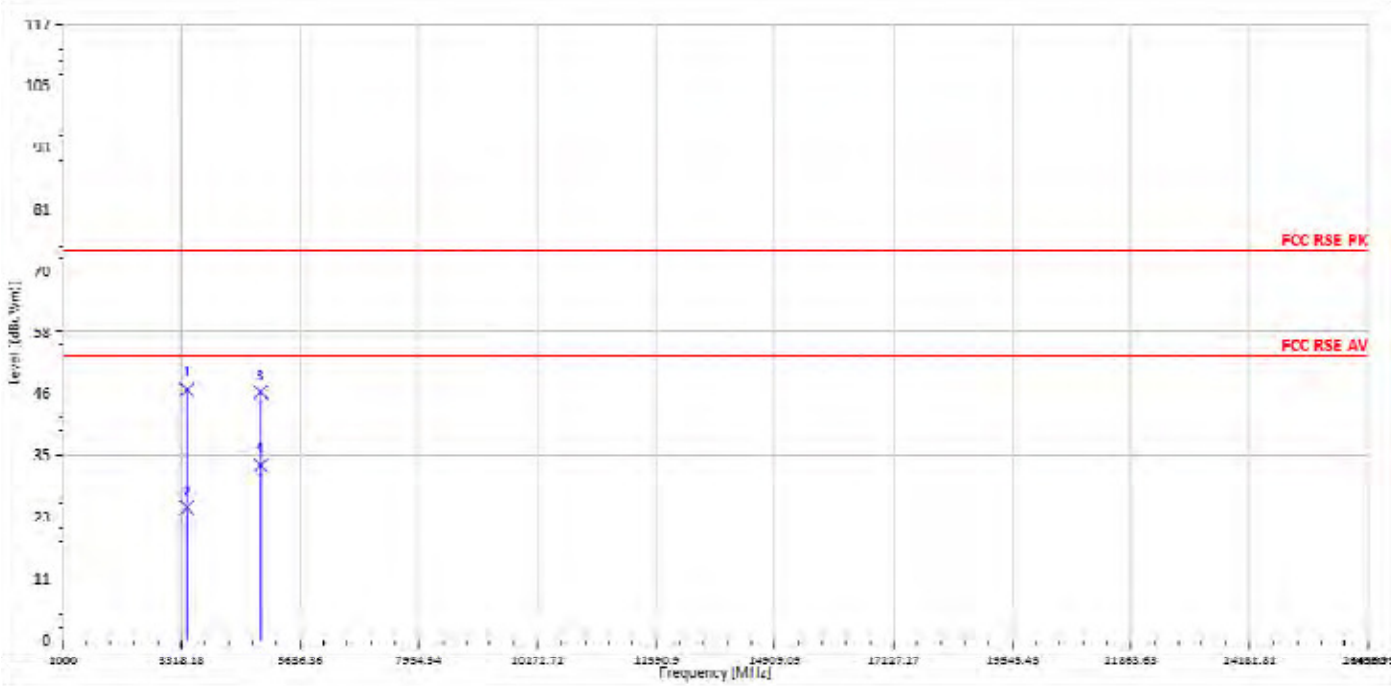
Operation Mode :	802.11b	Test Date :	2016/7/21
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH MID	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
3422.00	S	Peak	52.60	-5.04	47.55	74	-26.45
3422.00	S	Average	30.17	-5.04	25.13	54	-28.87
4871.00	H	Peak	47.83	-0.76	47.07	74	-26.93
4874.00	H	Average	33.95	-0.75	33.20	54	-20.80

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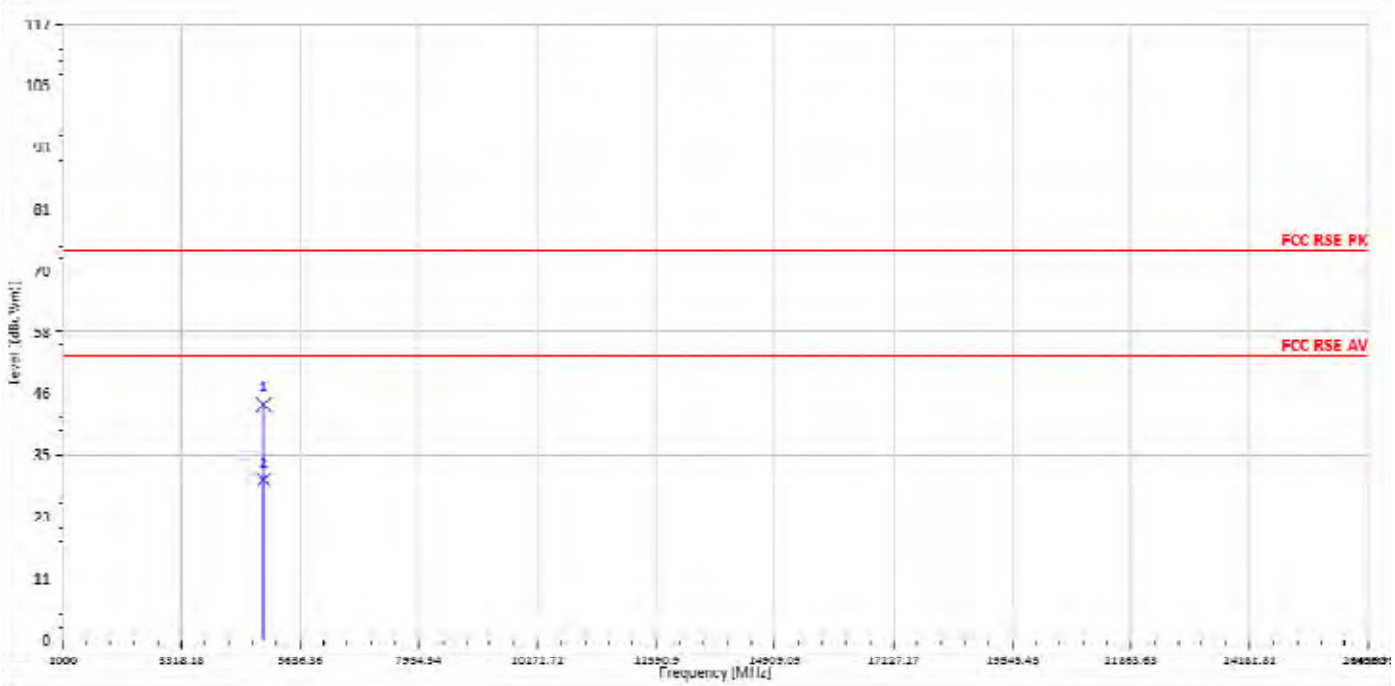
Operation Mode :	802.11b	Test Date :	2016/7/21
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4924.00	H	Peak	45.39	-0.62	44.77	74	-29.23
4924.00	H	Average	31.01	-0.62	30.39	54	-23.61

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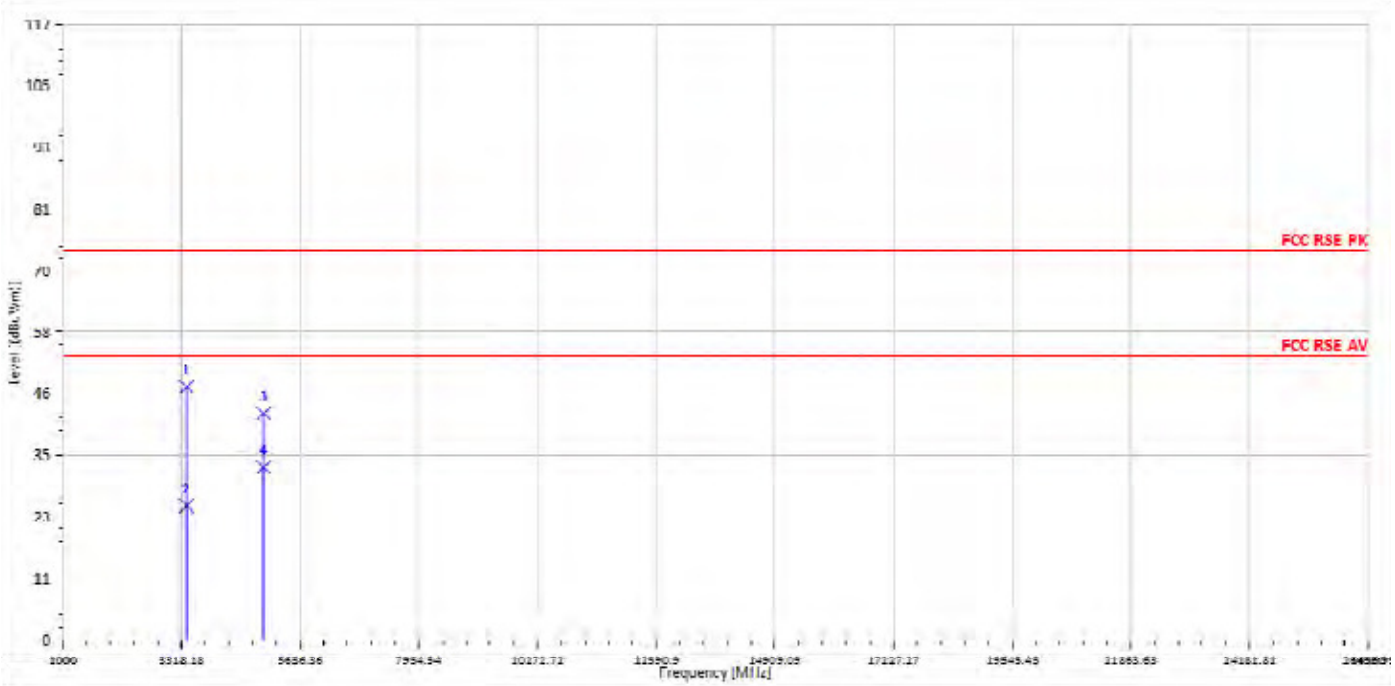
Operation Mode :	802.11b	Test Date :	2016/7/21
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
3415.00	S	Peak	53.17	-5.07	48.09	74	-25.91
3415.00	S	Average	30.54	-5.07	25.47	54	-28.53
4924.00	H	Peak	43.70	-0.62	43.08	74	-30.92
4924.00	H	Average	33.45	-0.62	32.83	54	-21.17

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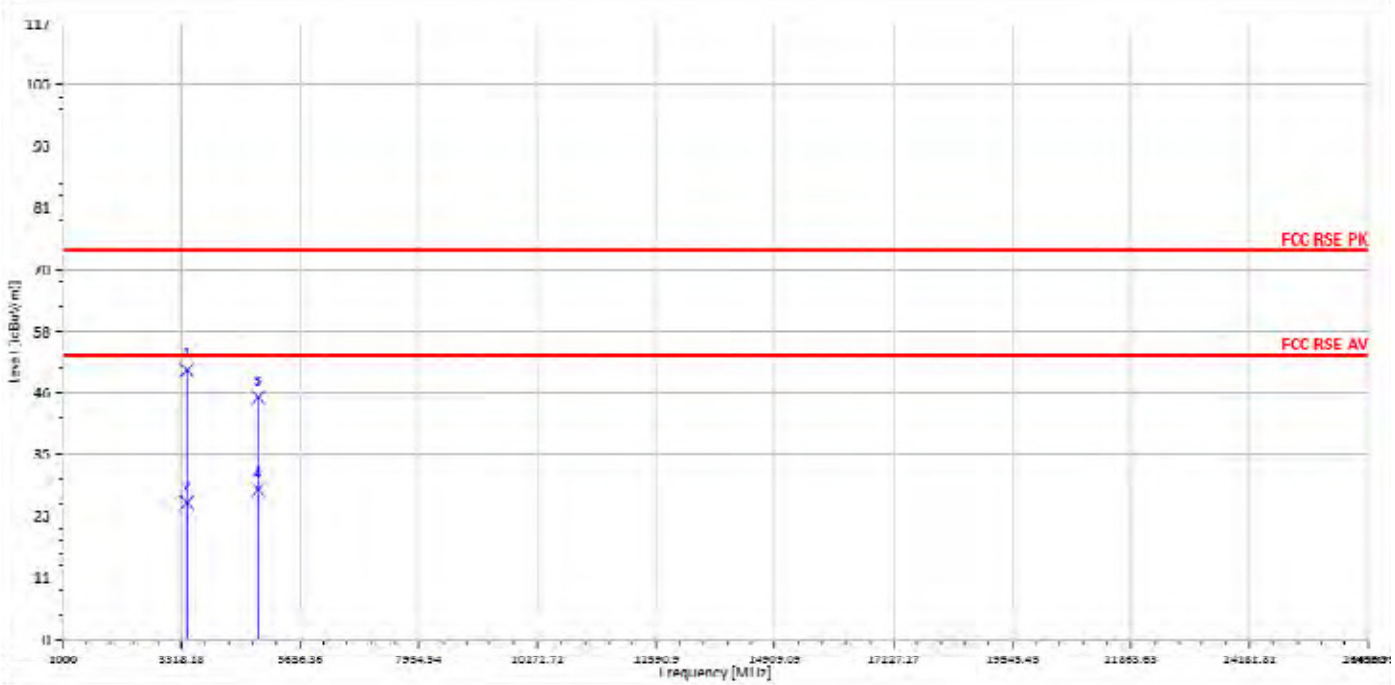
Radiated Spurious Emission Measurement Result (802.11 g)

Operation Mode :	802.11g	Test Date :	2016/7/21
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH LOW	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
3422.00	S	Peak	56.17	-5.04	51.12	74	-22.88
3422.00	S	Average	31.08	-5.04	26.04	54	-27.96
4824.00	H	Peak	47.01	-1.04	45.97	74	-28.03
4824.00	H	Average	29.48	-1.04	28.44	54	-25.56

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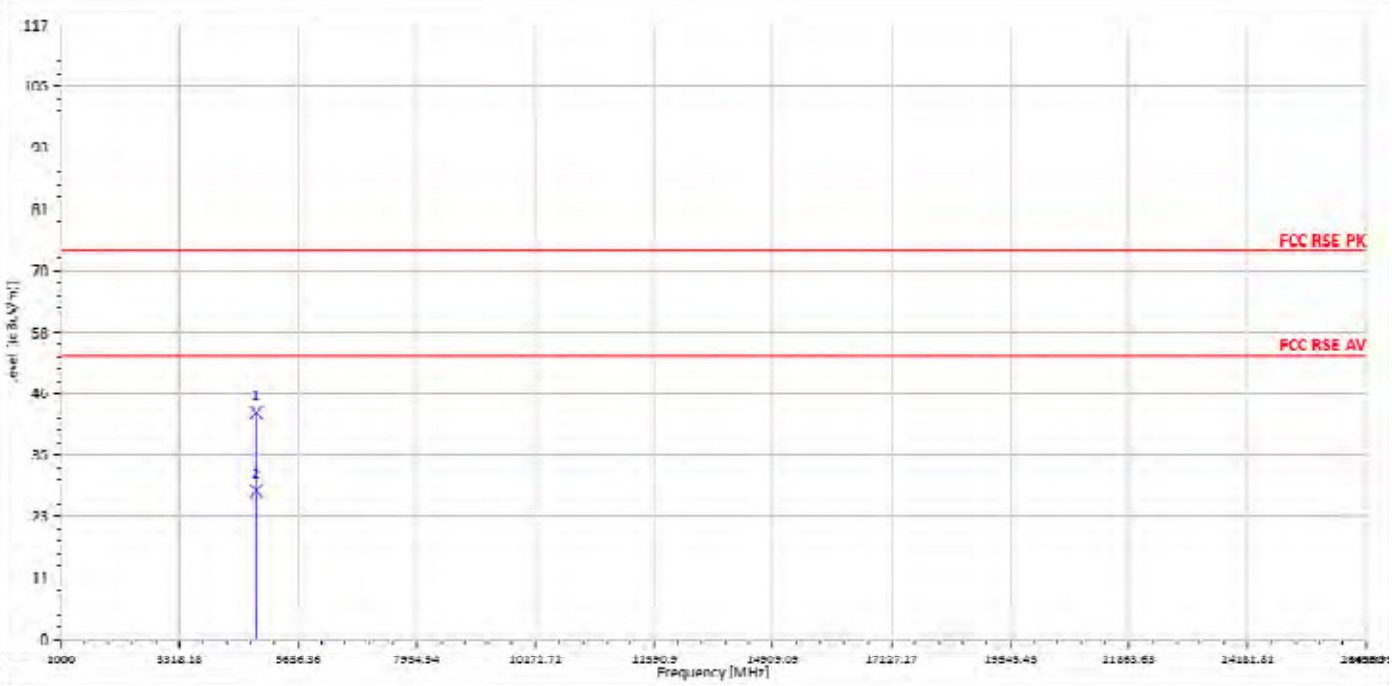
Operation Mode :	802.11g	Test Date :	2016/7/21
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH LOW	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	H	Peak	44.27	-1.04	43.23	74	-30.77
4824.00	H	Average	29.37	-1.04	28.33	54	-25.67

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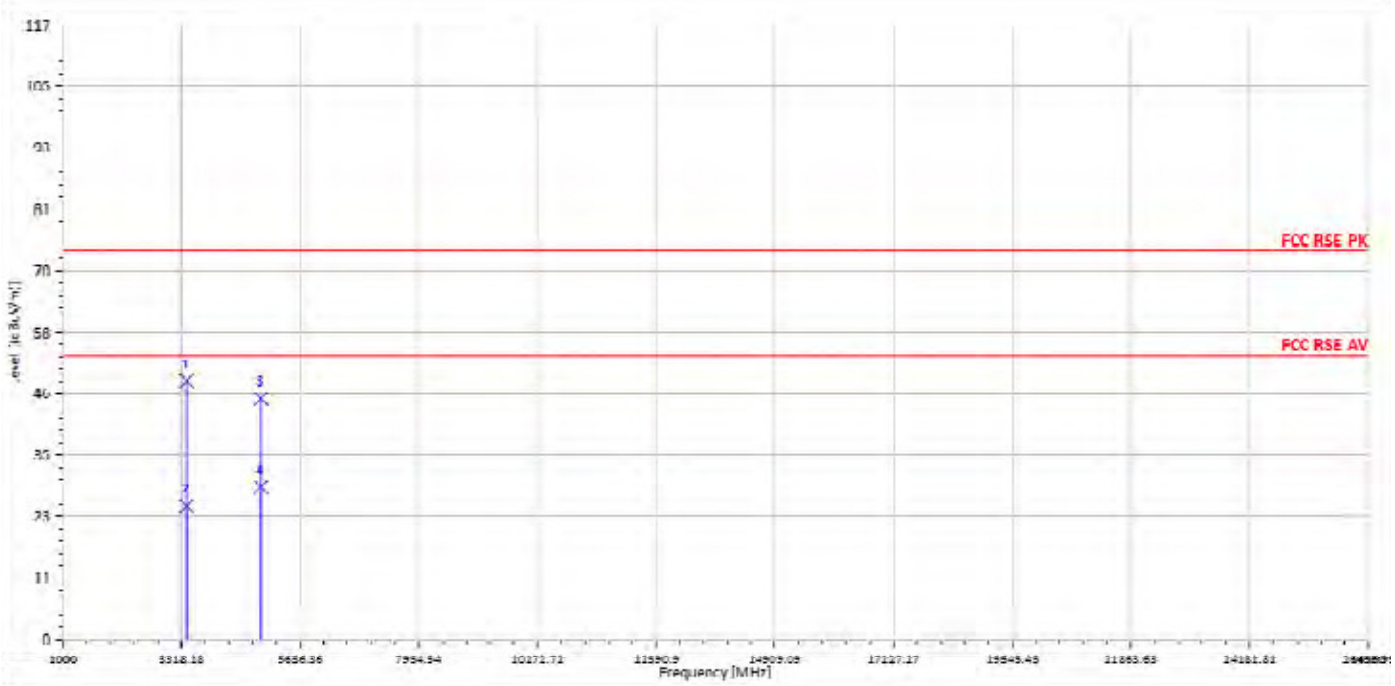
Operation Mode :	802.11g	Test Date :	2016/7/21
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH MID	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
3415.00	S	Peak	54.34	-5.07	49.26	74	-24.74
3415.00	S	Average	30.51	-5.07	25.44	54	-28.56
4874.00	H	Peak	46.61	-0.75	45.86	74	-28.14
4874.00	H	Average	29.77	-0.75	29.02	54	-24.98

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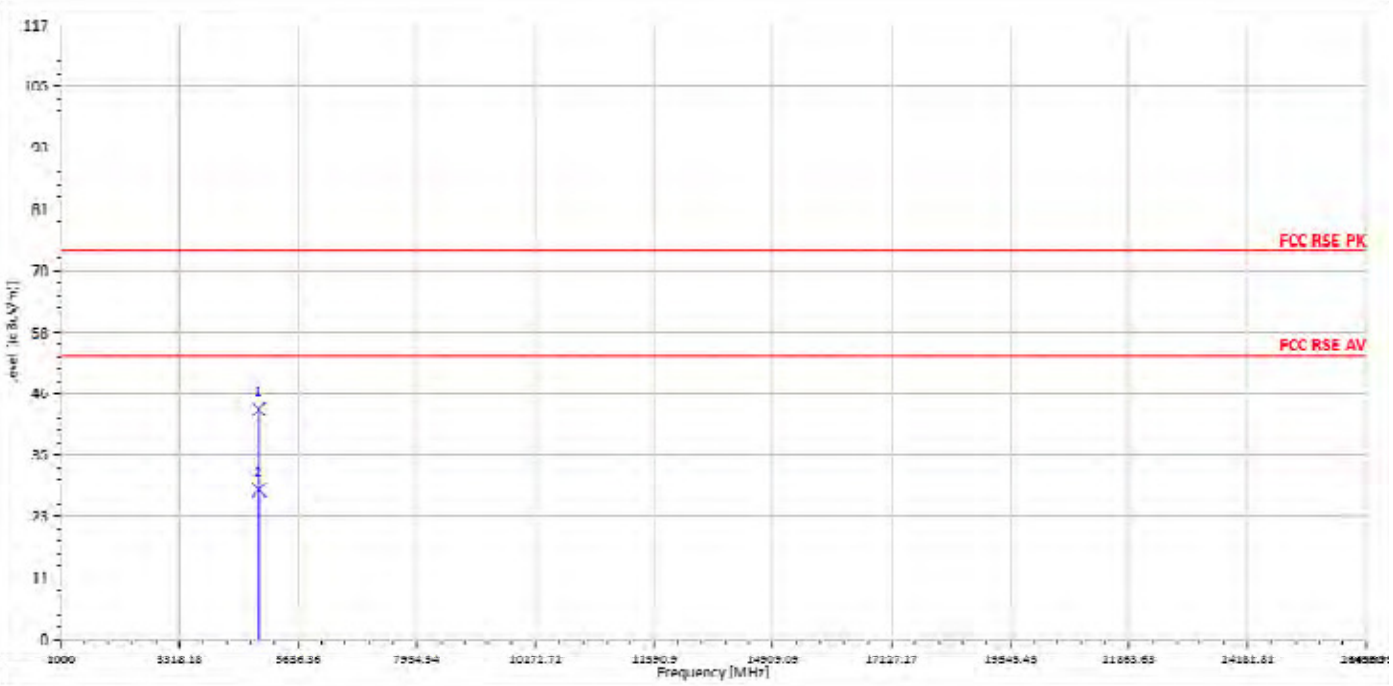
Operation Mode :	802.11g	Test Date :	2016/7/21
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH MID	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	H	Peak	44.57	-0.75	43.83	74	-30.17
4874.00	H	Average	29.28	-0.75	28.53	54	-25.47

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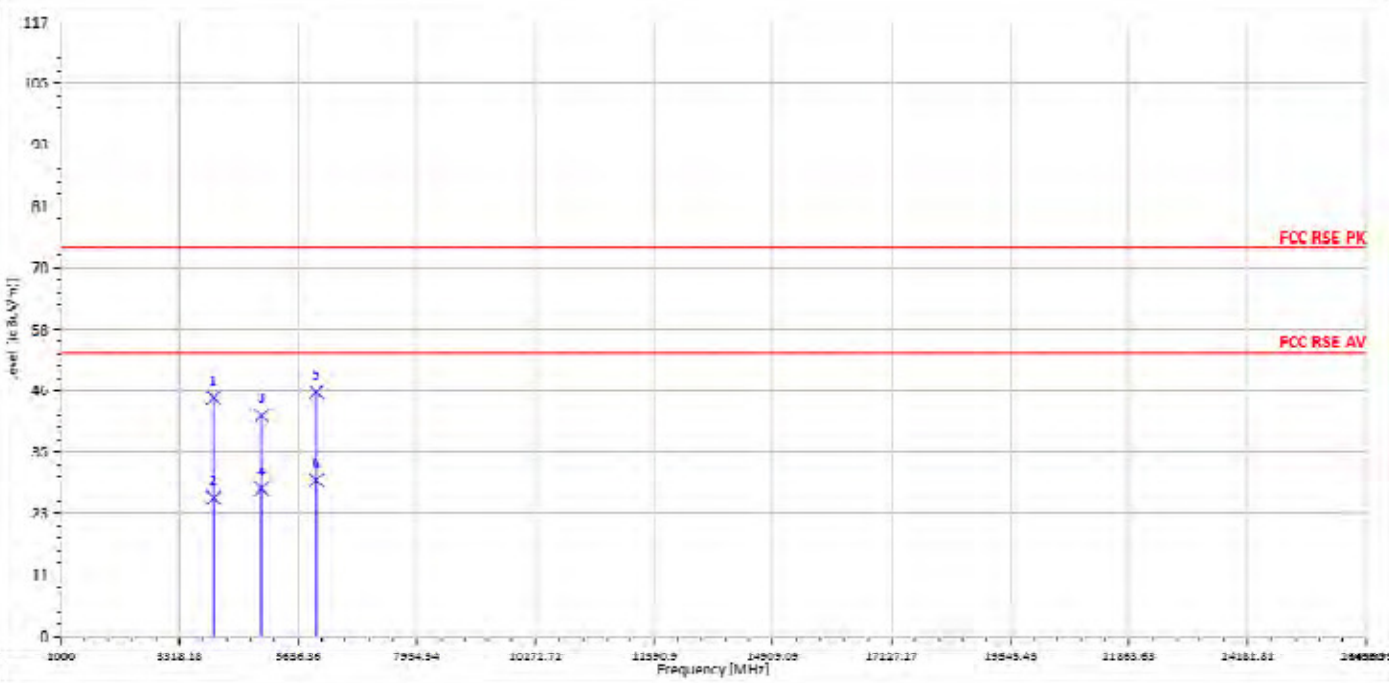
Operation Mode :	802.11g	Test Date :	2016/7/21
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
3982.00	S	Peak	48.42	-2.99	45.43	74	-28.57
3982.00	S	Average	29.43	-2.99	26.44	54	-27.56
4924.00	H	Peak	42.72	-0.62	42.10	74	-31.90
4924.00	H	Average	28.78	-0.62	28.16	54	-25.84
5998.00	S	Peak	45.33	1.26	46.59	74	-27.41
5998.00	S	Average	28.48	1.26	29.74	54	-24.26

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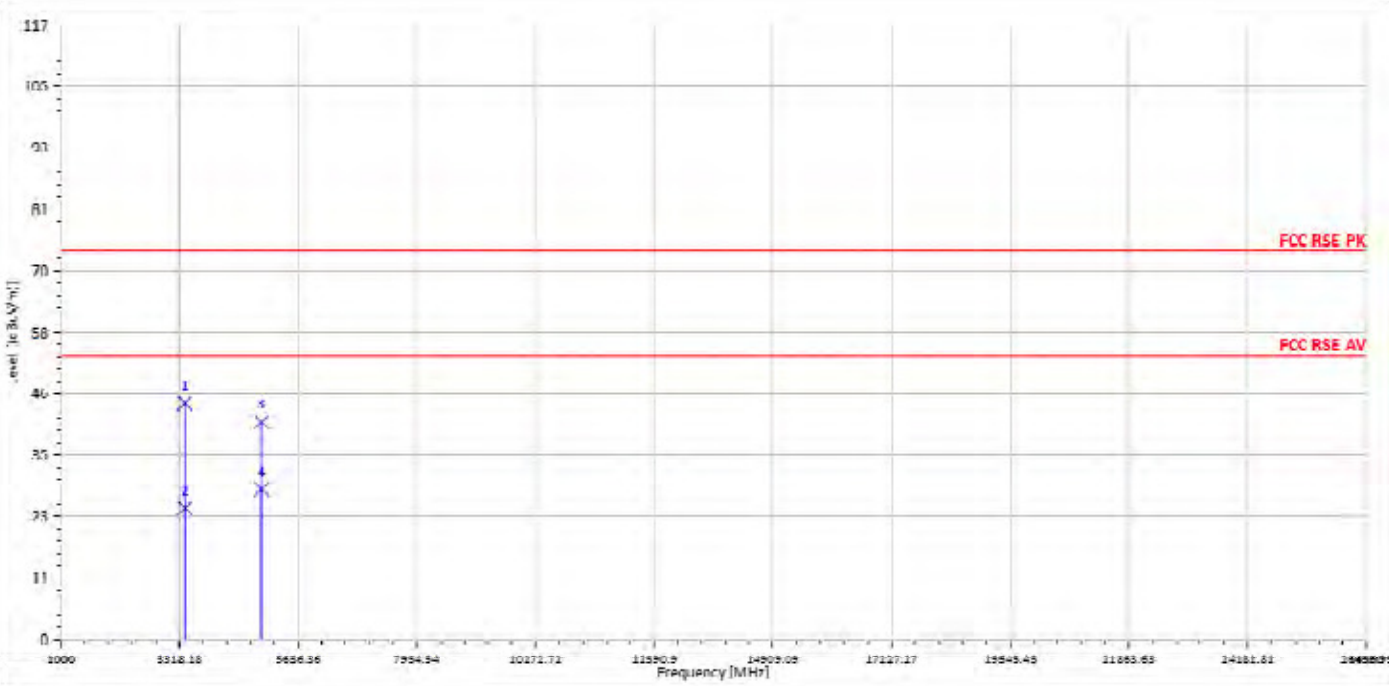
Operation Mode :	802.11g	Test Date :	2016/7/21
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
3422.00	S	Peak	50.04	-5.04	45.00	74	-29.00
3422.00	S	Average	30.09	-5.04	25.05	54	-28.95
4924.00	H	Peak	42.09	-0.62	41.47	74	-32.53
4924.00	H	Average	29.28	-0.62	28.66	54	-25.34

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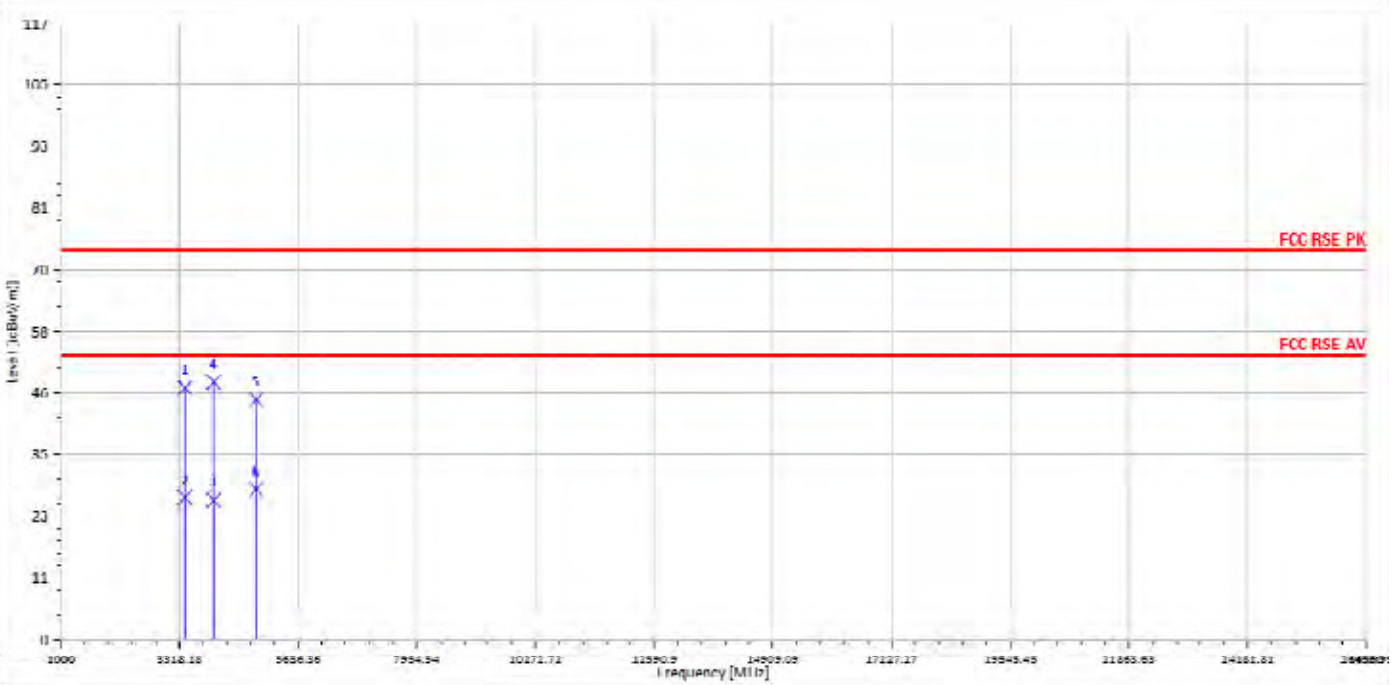
Radiated Spurious Emission Measurement Result (802.11_HT20)

Operation Mode :	802.11n20	Test Date :	2016/7/21
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH LOW	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
3422.00	S	Peak	52.86	-5.04	47.81	74	-26.19
3422.00	S	Average	32.07	-5.04	27.03	54	-26.97
3982.00	S	Average	29.48	-2.99	26.49	54	-27.51
3982.00	S	Peak	51.90	-2.99	48.91	74	-25.09
4824.00	H	Peak	46.60	-1.04	45.56	74	-28.44
4824.00	H	Average	29.55	-1.04	28.51	54	-25.49

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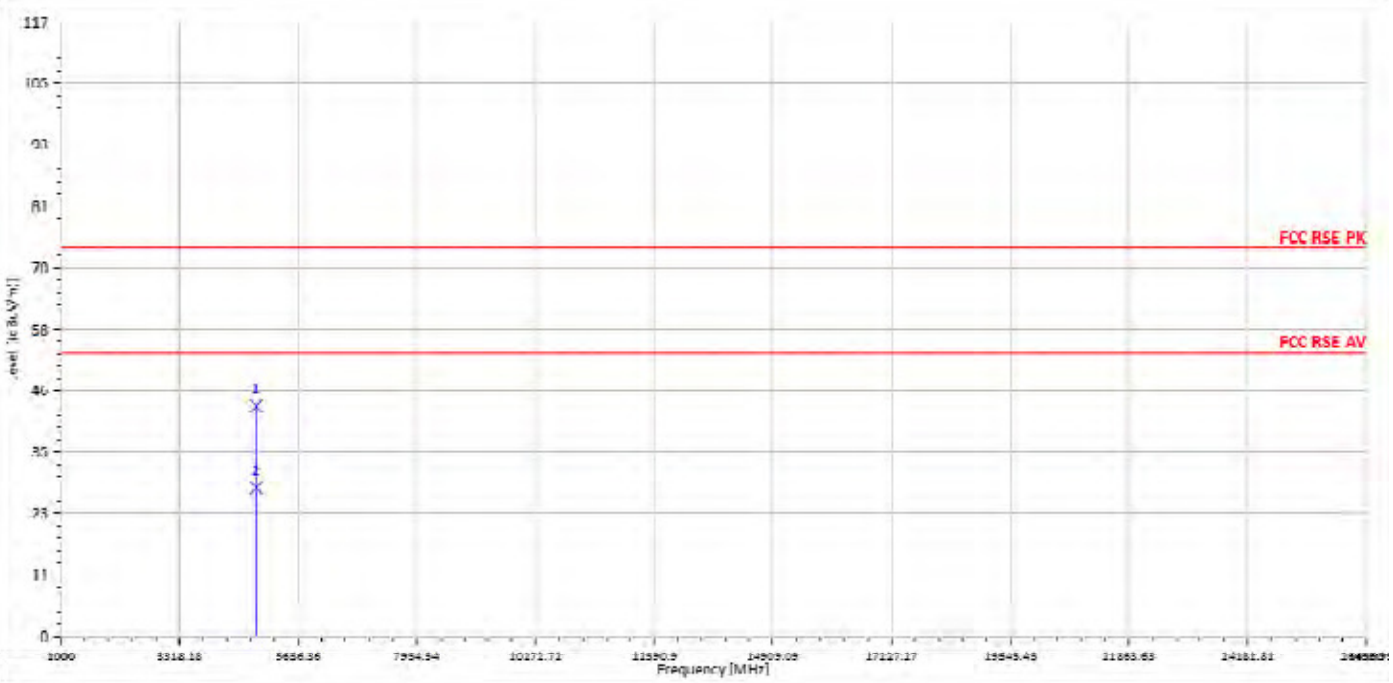
Operation Mode :	802.11n20	Test Date :	2016/7/21
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH LOW	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	H	Peak	44.91	-1.04	43.87	74	-30.13
4824.00	H	Average	29.41	-1.04	28.37	54	-25.63

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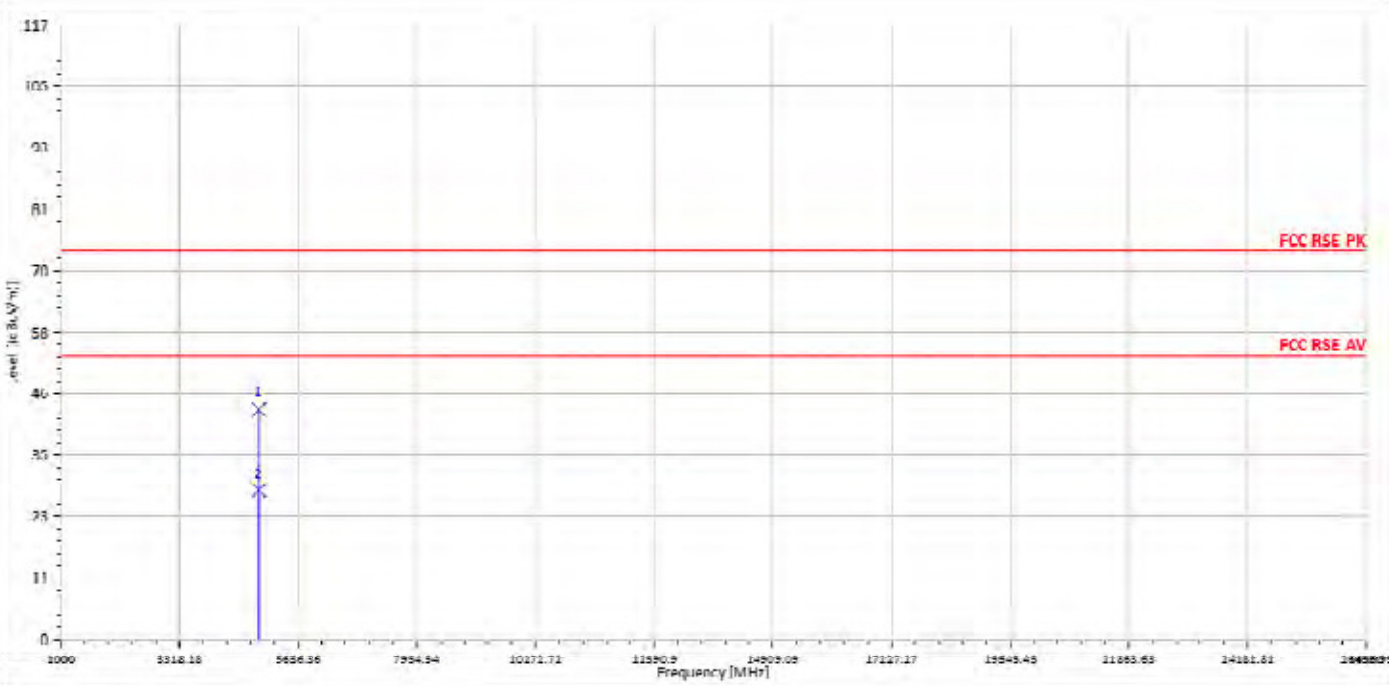
Operation Mode :	802.11n20	Test Date :	2016/7/21
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH MID	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	H	Peak	44.52	-0.75	43.77	74	-30.23
4874.00	H	Average	29.21	-0.75	28.46	54	-25.54

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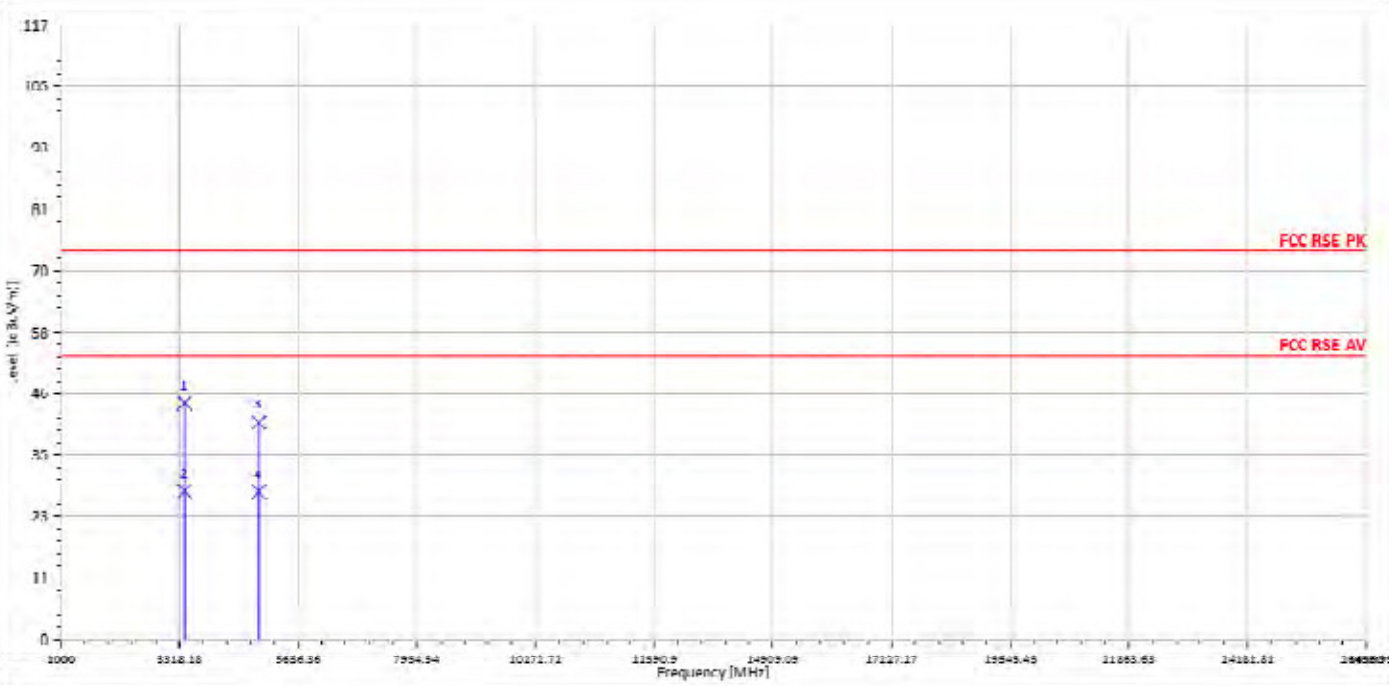
Operation Mode :	802.11n20	Test Date :	2016/7/21
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH MID	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
3415.00	S	Peak	50.10	-5.07	45.03	74	-28.97
3415.00	S	Average	33.35	-5.07	28.28	54	-25.72
4874.00	H	Peak	42.09	-0.75	41.34	74	-32.66
4874.00	H	Average	28.91	-0.75	28.16	54	-25.84

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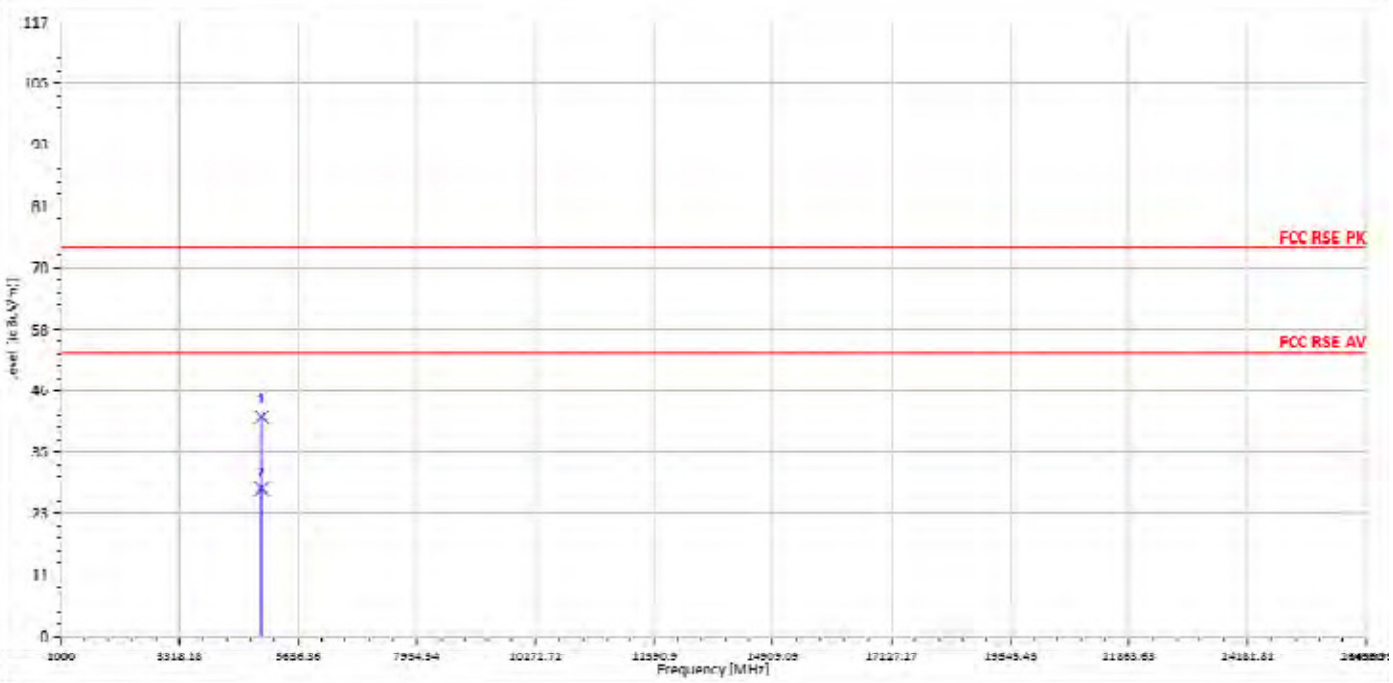
Operation Mode :	802.11n20	Test Date :	2016/7/21
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	H	Peak	42.51	-0.62	41.89	74	-32.11
4924.00	H	Average	28.78	-0.62	28.16	54	-25.84

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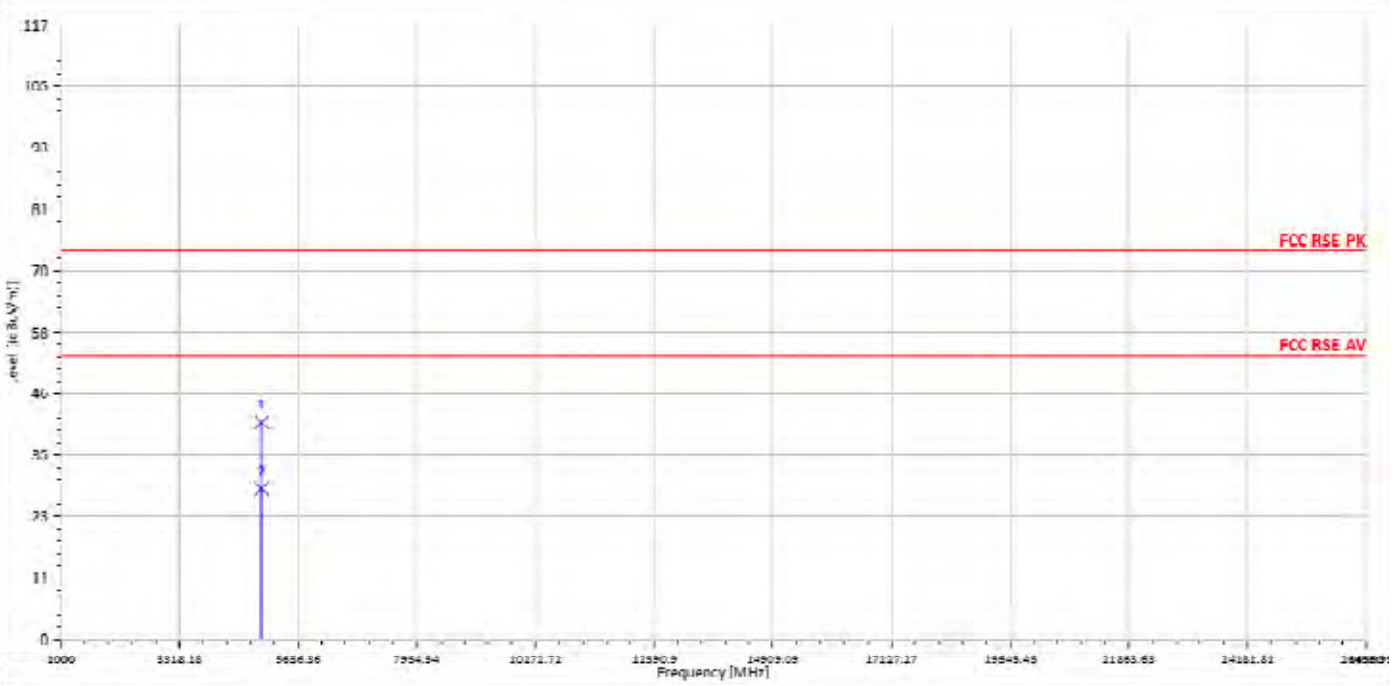
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tank
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	H	Peak	42.02	-0.62	41.40	74	-32.60
4924.00	H	Average	29.35	-0.62	28.73	54	-25.27

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12 PEAK POWER SPECTRAL DENSITY

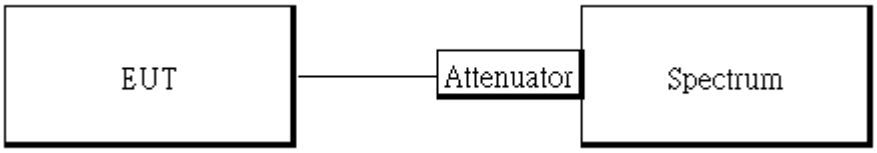
12.1 Standard Applicable

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	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
DC Block	PASTERNACK	PE8210	RF29	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016

12.3 Test Set-up



12.4 Measurement Procedure

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

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12.5 Measurement Result

POWER DENSITY 802.11b MODE				POWER DENSITY 802.11g MODE			
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result	Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2412	-8.87	8.00	PASS	2412	-13.04	8.00	PASS
2437	-8.95	8.00	PASS	2437	-13.59	8.00	PASS
2462	-9.50	8.00	PASS	2462	-12.61	8.00	PASS

POWER DENSITY 802.11n HT20 MODE			
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2412	-12.68	8.00	PASS
2437	-12.96	8.00	PASS
2462	-13.72	8.00	PASS

**Refer to next page for plots*

Bandedge Limit 802.11b MODE		
Frequency (MHz)	RF Power Density (dBm)	Bandedge Limit (dBm)
2412	5.69	-14.31
2462	4.74	-15.26

Bandedge Limit 802.11g MODE		
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)
2412	1.76	-18.24
2462	1.29	-18.71

Bandedge Limit 802.11n20 MODE		
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)
2412	2.58	-17.42
2462	1.85	-18.15

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802.11b

Power Spectral Density Test Plot (CH-Low)

Power Spectral Density Test Plot (CH-Mid)

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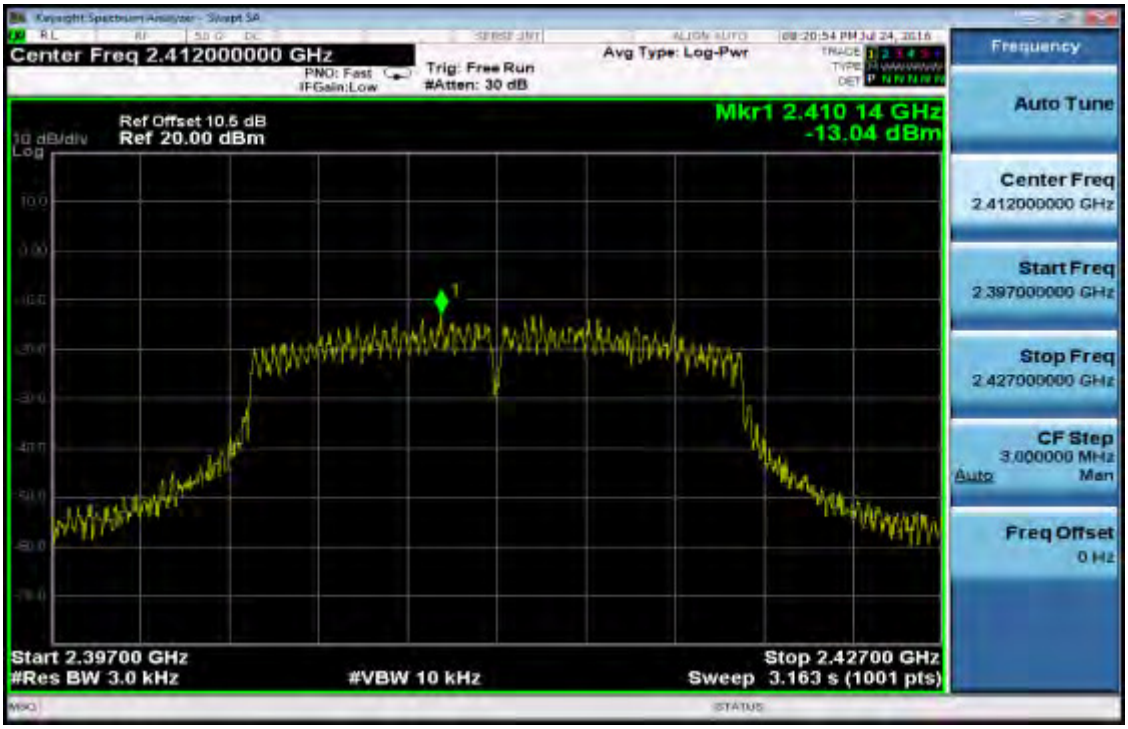
Power Spectral Density Test Plot (CH-High)

802.11g

Power Spectral Density Test Plot (CH-Low)



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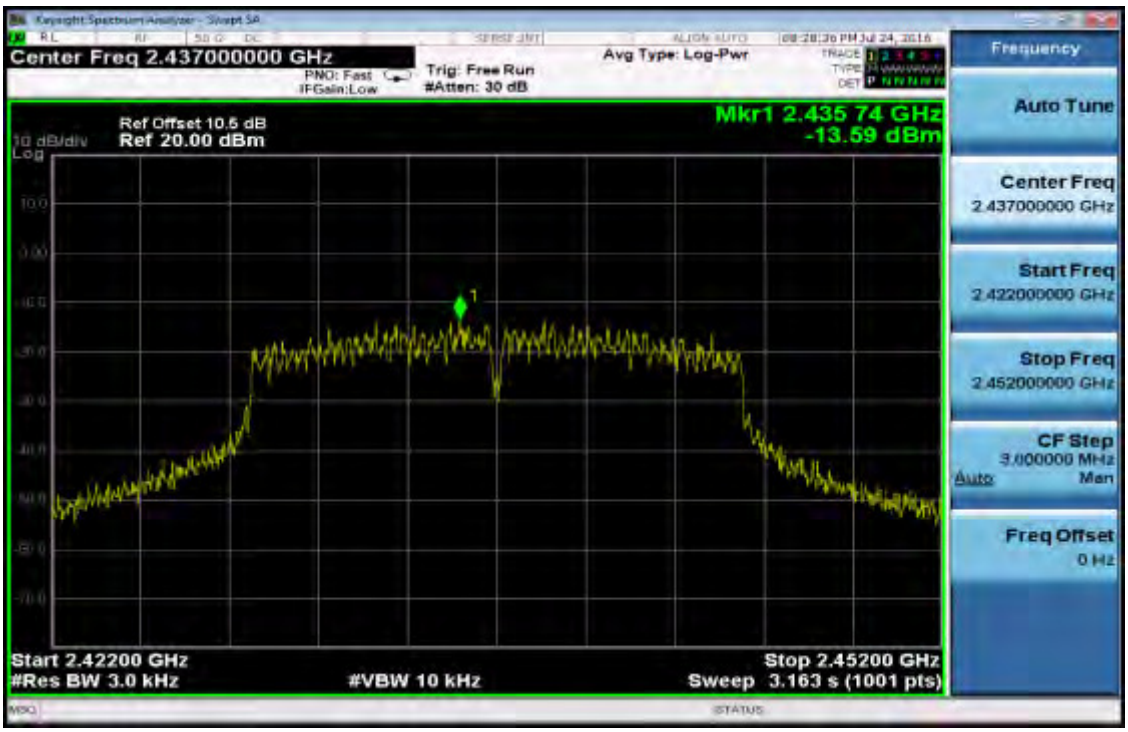
Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)

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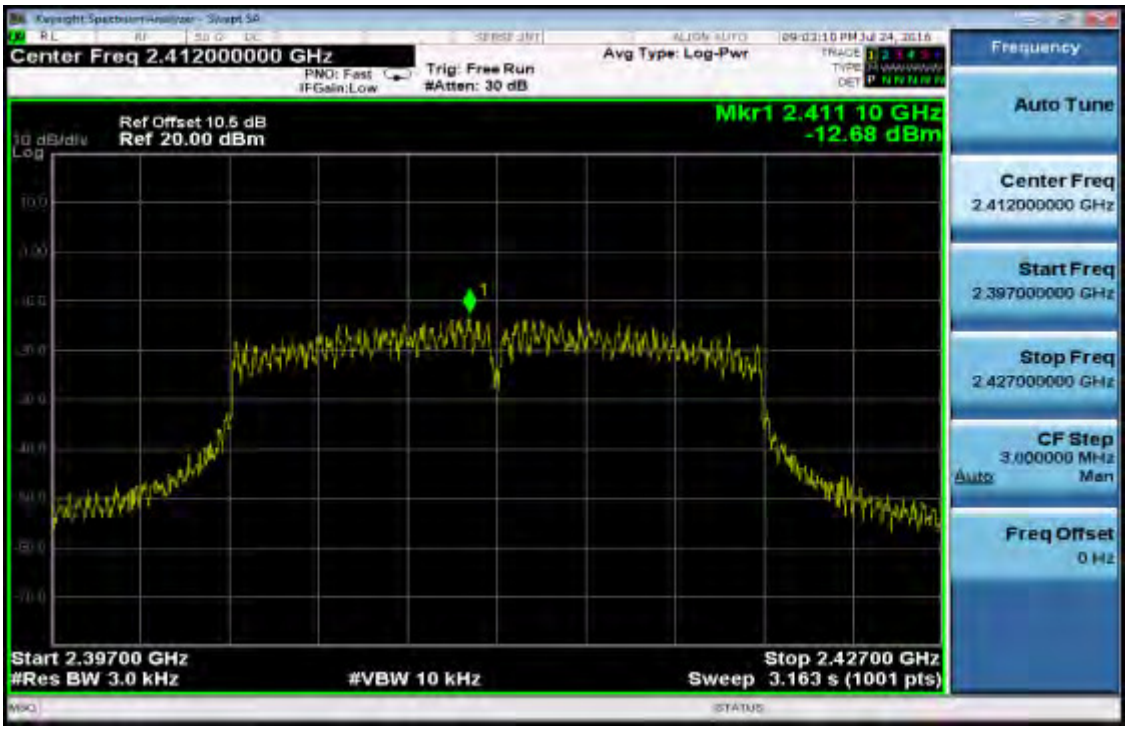
802.11n_HT20

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)

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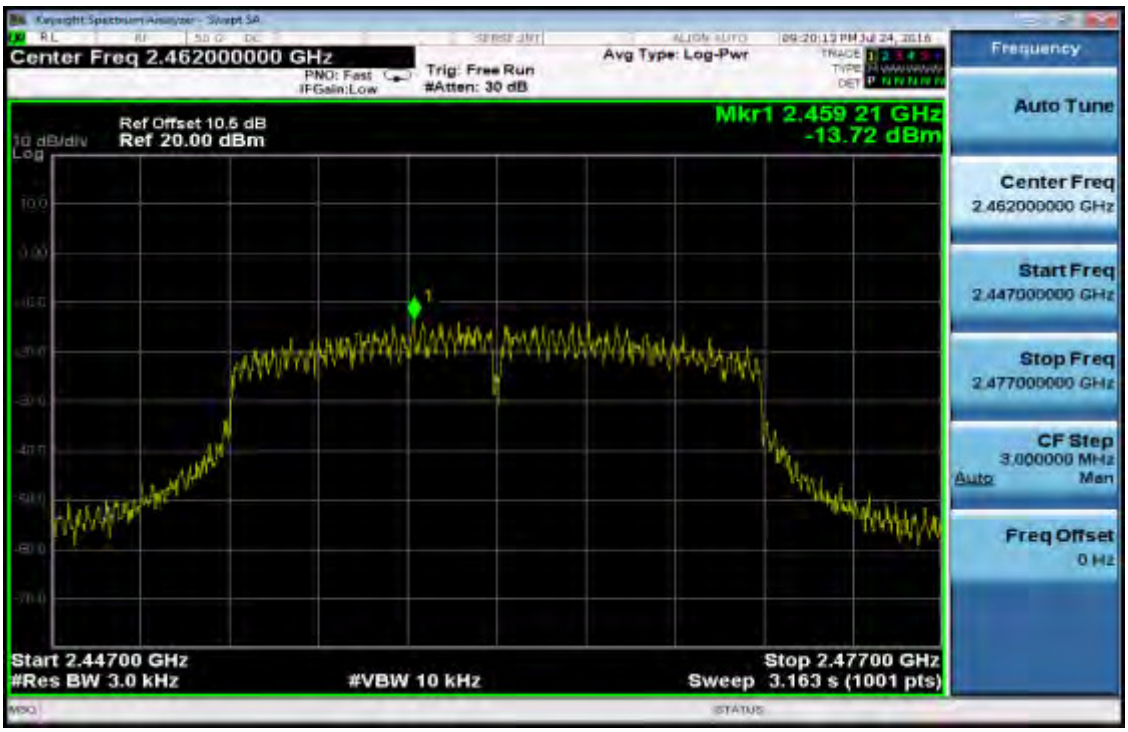
Power Spectral Density Test Plot (CH-High)



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

802.11b PSD for Bandedge Limit(CH-High)

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802.11g PSD for Bandedge Limit(CH-Low)

802.11g PSD for Bandedge Limit(CH-High)

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802.11n_HT20 PSD for Bandedge Limit(CH-Low)

802.11n_HT20 PSD for Bandedge Limit(CH-High)

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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.

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