

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Applicant: Microsoft Corporation
One Microsoft Way, Redmond, WA 98052-6399 USA
Product Name: Portable Computing Device
Brand Name: Microsoft
Model No.: 1824
Model Difference: N/A
FCC ID: C3K1824
IC: 3048A-1824
Report Number: E2/2018/10171
FCC Rule Part: §15.247, Cat: DTS
IC Rule Part: RSS-247 issue 2 Feb 2017
Issue Date: Jun. 08, 2018
Date of Test: Jan. 17, 2018 ~ Jun. 08, 2018
Date of EUT Received: Jan. 17, 2018

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.

Tested By:

Vito Pei
Vito Pei / Sr. Engineer

Approved By:

Jim Chang
Jim Chang / Manager



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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
E2/2018/10172	Rev.00	Initial creation of document	All	Jun. 08, 2018	Tiffany Kao

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1 GENERAL INFORMATION

1.1 Product description

General:

Product Name:	Portable Computing Device	
Brand Name:	Microsoft	
Model No.:	1824	
Model Difference:	N/A	
Product SW/HW version:	Windows 10 Pro / EV1824	
Radio SW/HW version:	12.0.0.461 / V3.2	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
Power Supply:	7.66Vdc from Rechargeable Li-ion Battery or 15V from AC/DC Adapter	
	Battery:	Model No.: G16QA043H, Supplier: SMP
	Adapter:	Model No.: 1735, Supplier: LITEON

WLAN 2.4GHz:

Wi-Fi	Frequency Range	Channels	HT/VHT mode	Rated Power in dBm (Peak)	Rated Power in dBm (EIRP)	Type of Emission	Modulation Technology
802.11b	2412-2472	13	--	14.42	17.30	13M2G1D	DSSS,
802.11g			--	24.41	24.24	16M6D1D	OFDM
802.11n HT20 / ac VHT20			HT	24.94	24.39	17M7D1D	
802.11n HT40 / ac VHT40	2422-2462	7	HT	24.82	24.37	36M2D1D	

Antenna Designation:	Loop Antenna, Main Antenna Gain: 2.70 dBi Aux Antenna Gain: 2.08 dBi
Modulation type:	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Transition Rate:	802.11 b: 1/2/5.5/11 Mbps 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 144.4Mbps 802.11 n_40MHz: 13.5 – 300.0Mbps

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1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 v04 DTS Meas. Guidance

FCC KDB 662911 D01 Multiple Transmitter Output

Canada RSS-247 issue 2 Feb. 2017

Canada RSS-Gen issue 5 Apr. 2018

ANSI C63.10:2013

Note: All test items have been performed and record as per the above standards.

1.3 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd.,
Guishan District, Taoyuan City, Taiwan 333

(TAF code 0513)

FCC Registration Numbers are: 735305 / TW0002

Canada Registration Number: 4620A-5 .

1.4 Special Accessories

AC Adapter is used while the test is conducted and there is no other accessory attached. This is the worst case condition.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT is configured to operate in a continuous transmission mode. EUT placement and various angles were checked to find worst mode where the emission characteristics are maximized.

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Radiated Emissions

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

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2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor. Following shows an offset computation example with cable loss and attenuator.

Offset:

= RF cable loss (dB)+ attenuation factor(dB) dB =10.6 (dB)

2.5 Configuration of Tested System

Fig. 2-1 Radiated & Conducted Emission Configuration



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

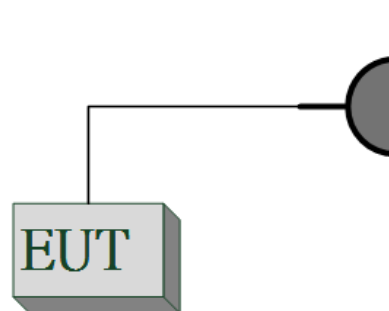


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2	Notebook	Lenovo	L430	R9-YYG88	Shielded	Unshielded

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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 §6.7	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	RSS- Gen §6.8	Antenna Requirement	Compliant

4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

13 channels are provided for 802.11b, 802.11g and 802.11n_HT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412 MHz	8	2447 MHz
2	2417 MHz	9	2452 MHz
3	2422 MHz	10	2457 MHz
4	2427 MHz	11	2462 MHz
5	2432 MHz	12	2467 MHz
6	2437 MHz	13	2472 MHz
7	2442 MHz		

9 channels are provided for 802.11n_HT40

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

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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.
4. For MIMO modes, the 2TX emission testing was considered as a worst case scenario and was performed at power levels, per transmit chain, greater than or equal to the maximum power in any 1TX mode.
5. Power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.
6. For 802.11n HT and VHT modes, the HT emission testing was considered as a worst case scenario and was performed at power levels, per transmit chain, greater than or equal to the maximum power in any HT mode.

AC POWER LINE CONDUCTION EMISSION

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	PACKET TYPE
802.11n 20MHz	Operation in normal mode			

RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11g	1 to 13	1, 6, 11,12,13	OFDM	6	2TX

RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 13	1, 6, 11,12,13	DSSS	1	2TX
802.11g	1 to 13	1, 6, 11,12,13	OFDM	6	2TX
802.11n HT20	1 to 13	1, 6, 11,12,13	OFDM	MCS 8	MIMO
802.11n HT40	3 to 11	3, 6, 9,10,11	OFDM	MCS 8	MIMO

Note:

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

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ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 13	1, 6, 11,12,13	DSSS	1	2TX
802.11g	1 to 13	1, 6, 11,12,13	OFDM	6	2TX
802.11n HT20	1 to 13	1, 6, 11,12,13	OFDM	MCS 8	MIMO
802.11n HT40	3 to 11	3, 6, 9,10,11	OFDM	MCS 8	MIMO

Directional gain (MIMO)

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

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

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

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

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5 MEASUREMENT UNCERTAINTY

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

Radiated Spurious Emission:

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

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

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

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6 CONDUCTED EMISSION TEST

6.1 Standard Applicable

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

Frequency range MHz	Limits dB(μV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note 1.The lower limit shall apply at the transition frequencies 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

6.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI 7	100950	12/24/2017	12/23/2018
Coaxial Cables	N/A	N30N30-1042-150cm	N/A	08/30/2017	08/29/2018
LISN	Schwarzbeck	NSLK 8127	8127-648	06/18/2017	06/17/2018
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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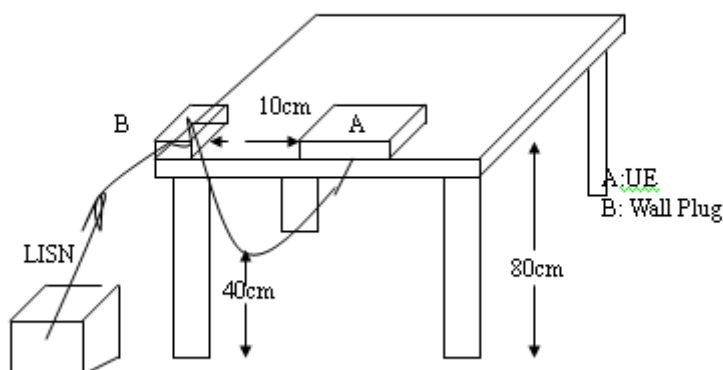
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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure

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

6.6 Measurement Result

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

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

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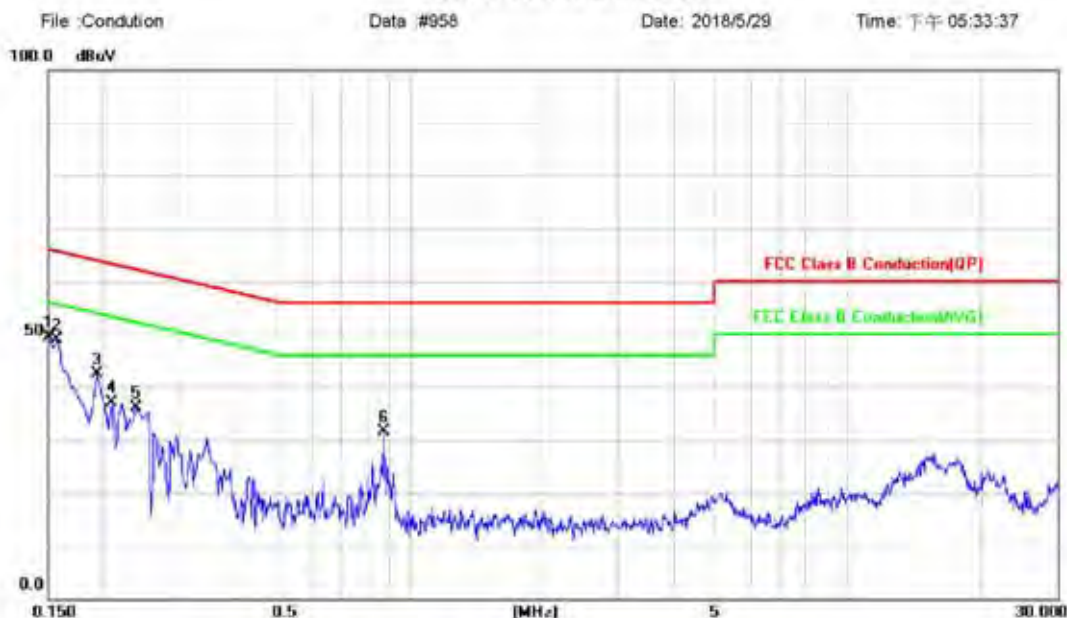
AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	operation mode	Test By:	Jerry
-----------------	----------------	----------	-------

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

Phase: **L1**
 Power: AC 120V/60Hz
 Temperature: 25 °C
 Humidity: 85 %

Conducted Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1500	39.68	9.70	49.38	66.00	-16.62	peak	
2		0.1580	39.16	9.70	48.86	65.57	-16.71	peak	
3		0.1940	32.60	9.70	42.30	63.86	-21.56	peak	
4		0.2100	27.37	9.72	37.09	63.21	-26.12	peak	
5		0.2380	26.36	9.79	36.15	62.17	-26.02	peak	
6		0.8740	21.66	9.96	31.62	56.00	-24.38	peak	

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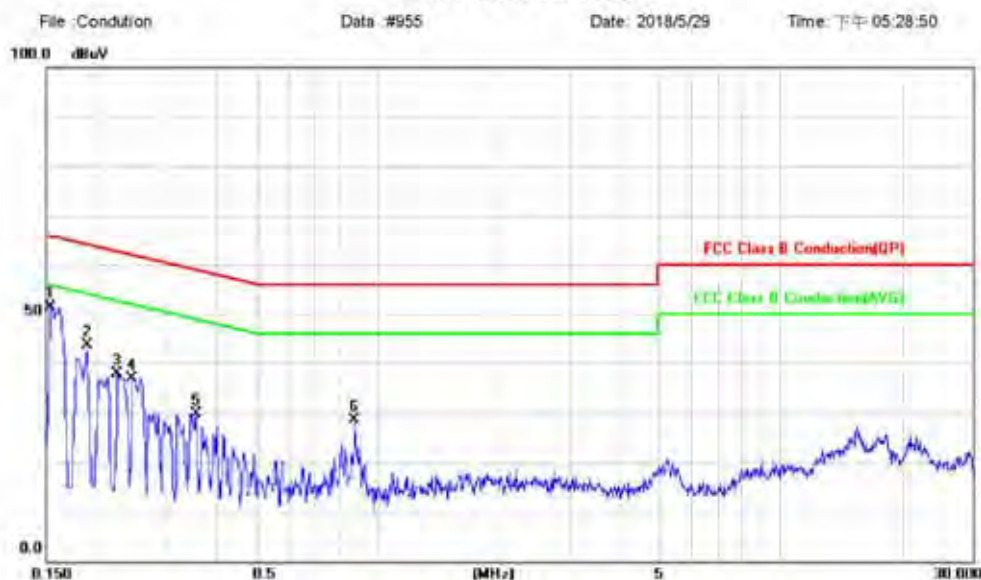
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Site: Conduction Room Phase: **N** Temperature: 25 °C
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 85 %
 Mode:
 Note:

Conducted Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1548	41.69	9.70	51.39	65.74	-14.35	peak	
2		0.1900	33.98	9.70	43.68	64.04	-20.36	peak	
3		0.2260	28.14	9.76	37.90	62.60	-24.70	peak	
4		0.2460	27.14	9.81	36.95	61.89	-24.94	peak	
5		0.3540	19.92	10.08	30.00	58.87	-28.87	peak	
6		0.8780	18.79	9.96	28.75	56.00	-27.25	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:

$$\text{Duty Cycle} = T_{on} / (T_{on} + T_{off})$$

Measurement Procedure:

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

Duty Cycle:

	Duty Cycle (%)	Duty Factor (dB)	1/T (kHz)	VBW setting (kHz)
802.11b	98.96	0.05	0.08	1.00
802.11g	94.72	0.24	0.49	1.00
802.11n_20	94.31	0.25	0.52	1.00
802.11n_40	82.01	0.86	2.02	3.00

$$b = 98.96\%, g = 94.72\%, n_{ht_20} = 94.308\%$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9896) = 0.05$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9472) = 0.24$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.94308) = 0.25$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.8201) = 0.86$$

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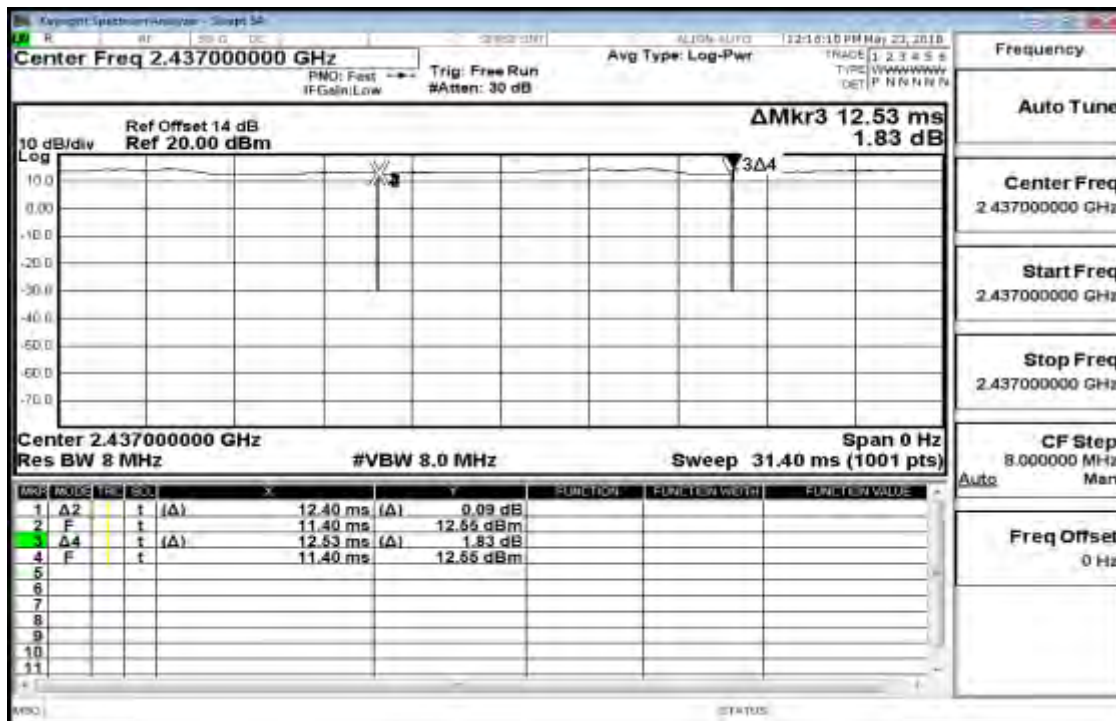
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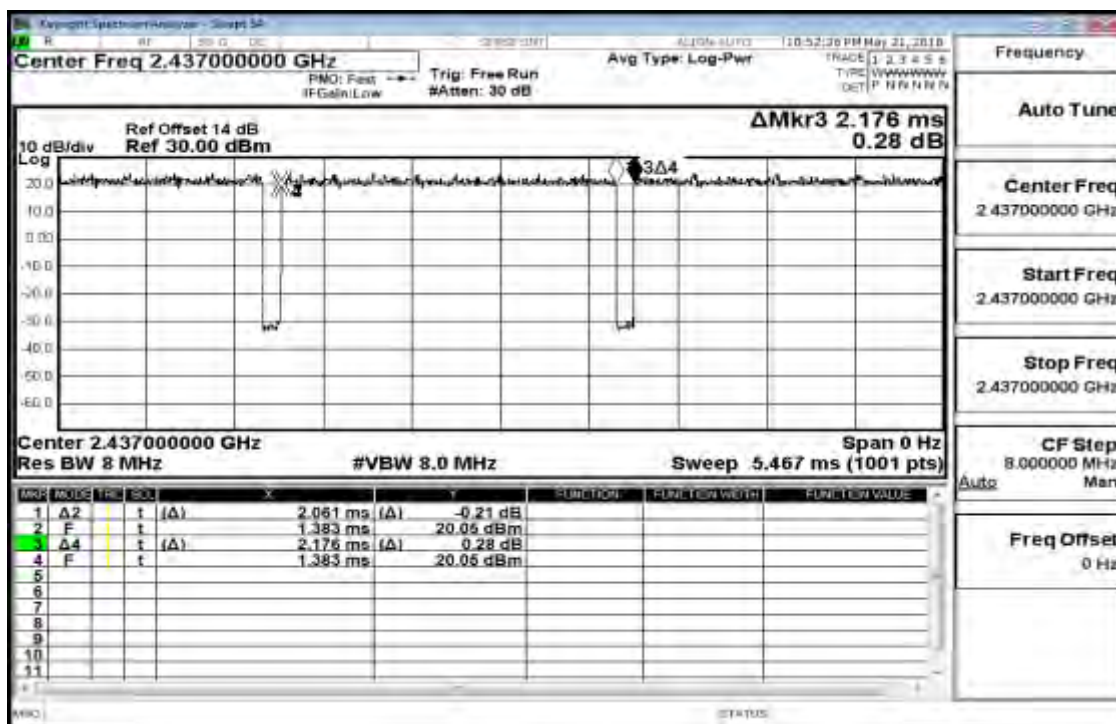
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7.1 DUTY CYCLE TEST SIGNAL Measurement Result

802.11 b



802.11 g



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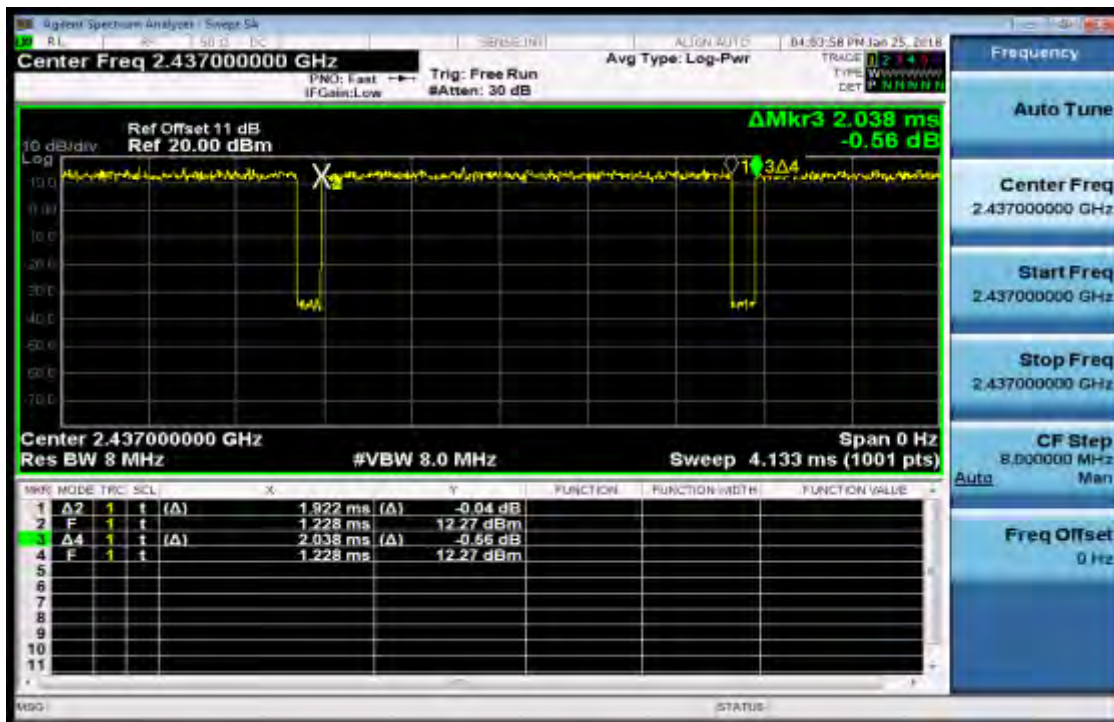
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802.11 n_20 MHz



802.11 n_40 MHz



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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

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

Per RSS-247 §5.4(4)

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

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

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

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

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

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

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

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

Note:

Main Antenna Gain: 2.70 dBi

Aux1 Antenna Gain: 2.08 dBi

Number Antenna: 2 pcs

Limit: 30 dBm

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

Directional gain = 10log(((G1+G2+....)^2)/number of antenna element)

MIMO gain = 5.41

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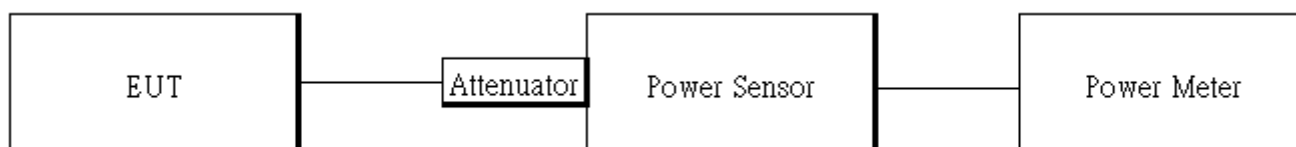
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8.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
Power Meter	Anritsu	ML2496A	1326001	06/23/2017	06/22/2018
Power Sensor	Anritsu	MA2411B	1315048	06/23/2017	06/22/2018
Power Sensor	Anritsu	MA2411B	1315049	06/23/2017	06/22/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/24/2017	12/23/2018
DC Block	PASTERNAK	PE8210	RF29	12/24/2017	12/23/2018
Splitter	RF-LAMBDA	RFLT2W1G18G	RF35	12/24/2017	12/23/2018
Attenuator	WOKEN	218FS-10	RF23	12/24/2017	12/23/2018

8.3 Test Set-up

Power Meter:



8.4 Measurement Procedure

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

Power Meter:

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

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

Note: The reported CH0 and CH1 power values in the 2Tx and MIMO tables were measured when performing additional measurements and all reported values are within compliance.

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8.5 Measurement Result

802.11b CH0					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit	RESULT
1	2412	1	11.28	1 Watt = 30.00 dBm	PASS
6	2437	1	11.17	1 Watt = 30.00 dBm	PASS
11	2462	1	11.45	1 Watt = 30.00 dBm	PASS
12	2467	1	11.39	1 Watt = 30.00 dBm	PASS
13	2472	1	11.38	1 Watt = 30.00 dBm	PASS
802.11b CH0					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit	RESULT
1	2412	1	8.94	1 Watt = 30.00 dBm	PASS
6	2437	1	8.95	1 Watt = 30.00 dBm	PASS
11	2462	1	8.93	1 Watt = 30.00 dBm	PASS
12	2467	1	8.96	1 Watt = 30.00 dBm	PASS
13	2472	1	8.95	1 Watt = 30.00 dBm	PASS
802.11b CH1					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit	RESULT
1	2412	1	11.06	1 Watt = 30.00 dBm	PASS
6	2437	1	10.72	1 Watt = 30.00 dBm	PASS
11	2462	1	11.21	1 Watt = 30.00 dBm	PASS
12	2467	1	11.36	1 Watt = 30.00 dBm	PASS
13	2472	1	11.28	1 Watt = 30.00 dBm	PASS
802.11b CH1					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit	RESULT
1	2412	1	8.76	1 Watt = 30.00 dBm	PASS
6	2437	1	8.74	1 Watt = 30.00 dBm	PASS
11	2462	1	8.82	1 Watt = 30.00 dBm	PASS
12	2467	1	8.89	1 Watt = 30.00 dBm	PASS
13	2472	1	8.84	1 Watt = 30.00 dBm	PASS

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802.11b_2TX

CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Total Peak Output Power (mW)	Limit	RESULT
			CH 0	CH 1				
1	2412	1	11.45	11.37	14.42	27.67	1 Watt = 30.00 dBm	PASS
6	2437	1	11.43	11.24	14.35	27.20	1 Watt = 30.00 dBm	PASS
11	2462	1	11.39	11.18	14.30	26.89	1 Watt = 30.00 dBm	PASS
12	2467	1	11.35	11.11	14.24	26.56	1 Watt = 30.00 dBm	PASS
13	2472	1	11.29	11.03	14.17	26.14	1 Watt = 30.00 dBm	PASS

802.11b_2TX

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Max. Avg. Output include tune up tolerance Power (mW)	Limit	RESULT
			CH 0	CH 1				
1	2412	1	8.92	8.76	11.90	15.48	1 Watt = 30.00 dBm	PASS
6	2437	1	8.83	8.68	11.81	15.18	1 Watt = 30.00 dBm	PASS
11	2462	1	8.78	8.57	11.73	14.90	1 Watt = 30.00 dBm	PASS
12	2467	1	8.71	8.53	11.68	14.71	1 Watt = 30.00 dBm	PASS
13	2472	1	8.63	8.50	11.62	14.53	1 Watt = 30.00 dBm	PASS

802.11g CH0

CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit	RESULT
1	2412	6	21.47	1 Watt = 30.00 dBm	PASS
6	2437	6	21.59	1 Watt = 30.00 dBm	PASS
11	2462	6	21.53	1 Watt = 30.00 dBm	PASS
12	2467	6	20.62	1 Watt = 30.00 dBm	PASS
13	2472	6	14.47	1 Watt = 30.00 dBm	PASS

802.11g CH0

CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit	RESULT
1	2412	6	15.98	1 Watt = 30.00 dBm	PASS
6	2437	6	15.97	1 Watt = 30.00 dBm	PASS
11	2462	6	15.95	1 Watt = 30.00 dBm	PASS
12	2467	6	14.92	1 Watt = 30.00 dBm	PASS
13	2472	6	8.94	1 Watt = 30.00 dBm	PASS

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802.11g CH1					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit	RESULT
1	2412	6	21.31	1 Watt = 30.00 dBm	PASS
6	2437	6	21.42	1 Watt = 30.00 dBm	PASS
11	2462	6	21.38	1 Watt = 30.00 dBm	PASS
12	2467	6	20.56	1 Watt = 30.00 dBm	PASS
13	2472	6	14.01	1 Watt = 30.00 dBm	PASS
802.11g CH1					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit	RESULT
1	2412	6	15.93	1 Watt = 30.00 dBm	PASS
6	2437	6	15.89	1 Watt = 30.00 dBm	PASS
11	2462	6	15.91	1 Watt = 30.00 dBm	PASS
12	2467	6	14.86	1 Watt = 30.00 dBm	PASS
13	2472	6	8.86	1 Watt = 30.00 dBm	PASS

802.11g_2TX								
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Total Peak Output Power (mW)	Limit	RESULT
			CH 0	CH 1				
1	2412	6	21.17	21.28	24.24	265.19	1 Watt = 30.00 dBm	PASS
6	2437	6	21.27	21.42	24.36	272.64	1 Watt = 30.00 dBm	PASS
11	2462	6	21.35	21.45	24.41	276.10	1 Watt = 30.00 dBm	PASS
12	2467	6	21.18	21.37	24.29	268.31	1 Watt = 30.00 dBm	PASS
13	2472	6	15.61	15.48	18.56	71.71	1 Watt = 30.00 dBm	PASS
802.11g_2TX								
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Max. Avg. Output include tune up tolerance Power (mW)	Limit	RESULT
			CH 0	CH 1				
1	2412	6	15.56	15.22	18.64	73.10	1 Watt = 30.00 dBm	PASS
6	2437	6	15.39	15.18	18.53	71.32	1 Watt = 30.00 dBm	PASS
11	2462	6	15.71	15.46	18.83	76.43	1 Watt = 30.00 dBm	PASS
12	2467	6	14.84	14.74	18.04	63.62	1 Watt = 30.00 dBm	PASS
13	2472	6	9.06	8.98	12.27	16.85	1 Watt = 30.00 dBm	PASS

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802.11n_HT20M CH0					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit	RESULT
1	2412	MCS0	21.71	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	21.59	1 Watt = 30.00 dBm	PASS
11	2462	MCS0	21.96	1 Watt = 30.00 dBm	PASS
12	2467	MCS0	19.57	1 Watt = 30.00 dBm	PASS
13	2472	MCS0	10.23	1 Watt = 30.00 dBm	PASS
802.11n_HT20M Ch0					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit	RESULT
1	2412	MCS0	15.92	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	15.96	1 Watt = 30.00 dBm	PASS
11	2462	MCS0	15.95	1 Watt = 30.00 dBm	PASS
12	2467	MCS0	13.27	1 Watt = 30.00 dBm	PASS
13	2472	MCS0	4.38	1 Watt = 30.00 dBm	PASS

802.11n_HT20M CH1					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit	RESULT
1	2412	MCS0	21.66	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	21.49	1 Watt = 30.00 dBm	PASS
11	2462	MCS0	21.85	1 Watt = 30.00 dBm	PASS
12	2467	MCS0	19.43	1 Watt = 30.00 dBm	PASS
13	2472	MCS0	10.05	1 Watt = 30.00 dBm	PASS
802.11n_HT20M CH1					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit	RESULT
1	2412	MCS0	15.87	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	15.88	1 Watt = 30.00 dBm	PASS
11	2462	MCS0	15.92	1 Watt = 30.00 dBm	PASS
12	2467	MCS0	13.15	1 Watt = 30.00 dBm	PASS
13	2472	MCS0	4.24	1 Watt = 30.00 dBm	PASS

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802.11n_HT20M MIMO									
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Total Peak Output Power (mW)	Limit		RESULT
			CH 0	CH 1					
1	2412	MCS8	21.43	22.18	24.83	304.19	1 Watt =	30.00 dBm	PASS
6	2437	MCS8	21.57	22.26	24.94	311.82	1 Watt =	30.00 dBm	PASS
11	2462	MCS8	21.39	21.97	24.70	295.12	1 Watt =	30.00 dBm	PASS
12	2467	MCS8	19.74	19.77	22.77	189.03	1 Watt =	30.00 dBm	PASS
13	2472	MCS8	10.55	11.03	13.81	24.03	1 Watt =	30.00 dBm	PASS
802.11n_HT20M MIMO									
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Max. Avg. Output include tune up tolerance Power (mW)	Limit		RESULT
			CH 0	CH 1					
1	2412	MCS8	15.59	15.85	18.99	79.19	1 Watt =	30.00 dBm	PASS
6	2437	MCS8	15.61	15.71	18.93	78.07	1 Watt =	30.00 dBm	PASS
11	2462	MCS8	15.53	15.71	18.89	77.37	1 Watt =	30.00 dBm	PASS
12	2467	MCS8	13.44	12.91	16.45	44.14	1 Watt =	30.00 dBm	PASS
13	2472	MCS8	4.33	4.10	7.48	5.60	1 Watt =	30.00 dBm	PASS

802.11n_HT40M CH0					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit	RESULT
3	2422	MCS0	22.05	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	21.84	1 Watt = 30.00 dBm	PASS
9	2452	MCS0	21.92	1 Watt = 30.00 dBm	PASS
10	2457	MCS0	19.61	1 Watt = 30.00 dBm	PASS
11	2462	MCS0	15.37	1 Watt = 30.00 dBm	PASS
802.11n_HT40M CH0					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit	RESULT
3	2422	MCS0	15.98	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	15.97	1 Watt = 30.00 dBm	PASS
9	2452	MCS0	15.95	1 Watt = 30.00 dBm	PASS
10	2457	MCS0	13.87	1 Watt = 30.00 dBm	PASS
11	2462	MCS0	8.96	1 Watt = 30.00 dBm	PASS

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802.11n_HT40M CH1					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit	RESULT
3	2422	MCS0	21.99	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	21.76	1 Watt = 30.00 dBm	PASS
9	2452	MCS0	21.86	1 Watt = 30.00 dBm	PASS
10	2457	MCS0	19.53	1 Watt = 30.00 dBm	PASS
11	2462	MCS0	15.41	1 Watt = 30.00 dBm	PASS
802.11n_HT40M CH1					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit	RESULT
3	2422	MCS0	15.93	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	15.85	1 Watt = 30.00 dBm	PASS
9	2452	MCS0	15.86	1 Watt = 30.00 dBm	PASS
10	2457	MCS0	13.76	1 Watt = 30.00 dBm	PASS
11	2462	MCS0	8.86	1 Watt = 30.00 dBm	PASS

802.11n_HT40M MIMO

CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Total Peak Output Power (mW)	Limit	RESULT
			CH 0	CH 1				
3	2422	MCS8	22.47	21.03	24.82	303.37	1 Watt = 30.00 dBm	PASS
6	2437	MCS8	22.27	21.00	24.69	294.55	1 Watt = 30.00 dBm	PASS
9	2452	MCS8	22.18	20.89	24.59	287.94	1 Watt = 30.00 dBm	PASS
10	2457	MCS8	20.38	19.72	23.07	202.77	1 Watt = 30.00 dBm	PASS
11	2462	MCS8	14.92	14.88	17.91	61.81	1 Watt = 30.00 dBm	PASS

802.11n_HT40M MIMO

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Max. Avg. Output include tune up tolerance Power (mW)	Limit	RESULT
			CH 0	CH 1				
3	2422	MCS8	15.81	14.22	18.95	78.60	1 Watt = 30.00 dBm	PASS
6	2437	MCS8	15.82	14.14	18.93	78.12	1 Watt = 30.00 dBm	PASS
9	2452	MCS8	15.78	14.21	18.93	78.21	1 Watt = 30.00 dBm	PASS
10	2457	MCS8	13.34	12.83	16.96	49.66	1 Watt = 30.00 dBm	PASS
11	2462	MCS8	8.23	7.76	11.87	15.38	1 Watt = 30.00 dBm	PASS

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802.11n_VHT20M CH0						
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit		RESULT
1	2412	MCS0	21.56	1 Watt =	30.00 dBm	PASS
6	2437	MCS0	21.45	1 Watt =	30.00 dBm	PASS
11	2462	MCS0	21.81	1 Watt =	30.00 dBm	PASS
12	2467	MCS0	19.46	1 Watt =	30.00 dBm	PASS
13	2472	MCS0	10.12	1 Watt =	30.00 dBm	PASS
802.11n_VHT20M CH0						
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit		RESULT
1	2412	MCS0	15.77	1 Watt =	30.00 dBm	PASS
6	2437	MCS0	15.80	1 Watt =	30.00 dBm	PASS
11	2462	MCS0	15.81	1 Watt =	30.00 dBm	PASS
12	2467	MCS0	13.15	1 Watt =	30.00 dBm	PASS
13	2472	MCS0	4.26	1 Watt =	30.00 dBm	PASS

802.11n_VHT20M CH1						
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit		RESULT
1	2412	MCS0	21.48	1 Watt =	30.00 dBm	PASS
6	2437	MCS0	21.33	1 Watt =	30.00 dBm	PASS
11	2462	MCS0	21.70	1 Watt =	30.00 dBm	PASS
12	2467	MCS0	19.34	1 Watt =	30.00 dBm	PASS
13	2472	MCS0	9.98	1 Watt =	30.00 dBm	PASS
802.11n_VHT20M CH1						
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit		RESULT
1	2412	MCS0	15.69	1 Watt =	30.00 dBm	PASS
6	2437	MCS0	15.74	1 Watt =	30.00 dBm	PASS
11	2462	MCS0	15.77	1 Watt =	30.00 dBm	PASS
12	2467	MCS0	13.10	1 Watt =	30.00 dBm	PASS
13	2472	MCS0	4.17	1 Watt =	30.00 dBm	PASS

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802.11n_VHT20M MIMO								
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Total Peak Output Power (mW)	Limit	RESULT
			CH 0	CH 1				
1	2412	MCS8	21.07	21.78	24.45	278.60	1 Watt = 30.00 dBm	PASS
6	2437	MCS8	21.26	21.84	24.57	286.42	1 Watt = 30.00 dBm	PASS
11	2462	MCS8	21.44	21.99	24.73	297.44	1 Watt = 30.00 dBm	PASS
12	2467	MCS8	19.58	19.61	22.61	182.39	1 Watt = 30.00 dBm	PASS
13	2472	MCS8	10.39	10.85	13.64	23.12	1 Watt = 30.00 dBm	PASS
802.11n_VHT20M MIMO								
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Max. Avg. Output include tune up tolerance Power (mW)	Limit	RESULT
			CH 0	CH 1				
1	2412	MCS8	15.52	15.77	18.91	77.83	1 Watt = 30.00 dBm	PASS
6	2437	MCS8	15.33	15.58	18.72	74.50	1 Watt = 30.00 dBm	PASS
11	2462	MCS8	15.46	15.75	18.87	77.13	1 Watt = 30.00 dBm	PASS
12	2467	MCS8	13.26	12.76	16.28	42.46	1 Watt = 30.00 dBm	PASS
13	2472	MCS8	4.14	3.95	7.31	5.38	1 Watt = 30.00 dBm	PASS

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802.11n_VHT40M CH0					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit	RESULT
3	2422	MCS0	21.88	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	21.66	1 Watt = 30.00 dBm	PASS
9	2452	MCS0	21.76	1 Watt = 30.00 dBm	PASS
10	2457	MCS0	19.49	1 Watt = 30.00 dBm	PASS
11	2462	MCS0	15.18	1 Watt = 30.00 dBm	PASS
802.11n_VHT40M CH0					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit	RESULT
3	2422	MCS0	15.82	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	15.81	1 Watt = 30.00 dBm	PASS
9	2452	MCS0	15.79	1 Watt = 30.00 dBm	PASS
10	2457	MCS0	13.78	1 Watt = 30.00 dBm	PASS
11	2462	MCS0	8.84	1 Watt = 30.00 dBm	PASS

802.11n_VHT40M CH1					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit	RESULT
3	2422	MCS0	21.84	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	21.61	1 Watt = 30.00 dBm	PASS
9	2452	MCS0	21.72	1 Watt = 30.00 dBm	PASS
10	2457	MCS0	19.44	1 Watt = 30.00 dBm	PASS
11	2462	MCS0	15.13	1 Watt = 30.00 dBm	PASS
802.11n_VHT40M CH1					
CH	Freq. (MHz)	Data Rate	Max. Avg. Output include tune up tolerance Power (dBm)	Limit	RESULT
3	2422	MCS0	15.78	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	15.68	1 Watt = 30.00 dBm	PASS
9	2452	MCS0	15.69	1 Watt = 30.00 dBm	PASS
10	2457	MCS0	13.71	1 Watt = 30.00 dBm	PASS
11	2462	MCS0	8.73	1 Watt = 30.00 dBm	PASS

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802.11n_VHT40M MIMO									
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Total Peak Output Power (mW)	Limit		RESULT
			CH 0	CH 1					
3	2422	MCS8	22.33	20.84	24.66	292.34	1 Watt =	30.00 dBm	PASS
6	2437	MCS8	22.09	20.83	24.52	282.87	1 Watt =	30.00 dBm	PASS
9	2452	MCS8	22.01	20.75	24.44	277.70	1 Watt =	30.00 dBm	PASS
10	2457	MCS8	20.16	19.65	23.78	238.75	1 Watt =	30.00 dBm	PASS
11	2462	MCS8	14.83	14.72	18.64	73.15	1 Watt =	30.00 dBm	PASS
802.11n_VHT40M MIMO									
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Max. Avg. Output include tune up tolerance Power (mW)	Limit		RESULT
			CH 0	CH 1					
3	2422	MCS8	15.63	14.06	18.78	75.55	1 Watt =	30.00 dBm	PASS
6	2437	MCS8	15.65	13.99	18.77	75.26	1 Watt =	30.00 dBm	PASS
9	2452	MCS8	15.62	14.03	18.76	75.24	1 Watt =	30.00 dBm	PASS
10	2457	MCS8	13.24	12.68	16.84	48.26	1 Watt =	30.00 dBm	PASS
11	2462	MCS8	7.99	7.75	11.74	14.93	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_2TX												
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Avg. Output Power (dBm)	Total Avg. Output Power (mW)	Antenna Gain (dBi)	EIRP (dBm)	Limit			RESULT
			CH 0	CH 1								
1	2412	1	8.92	8.76	11.89	15.46	5.41	17.30	4W=	36	dBm	PASS
6	2437	1	8.83	8.68	11.81	15.16	5.41	17.22	4W=	36	dBm	PASS
11	2462	1	8.78	8.57	11.73	14.89	5.41	17.14	4W=	36	dBm	PASS
12	2467	1	8.71	8.53	11.67	14.56	5.41	17.08	4W=	36	dBm	PASS
13	2472	1	8.63	8.50	11.62	14.37	5.41	17.03	4W=	36	dBm	PASS

802.11g_2TX												
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Avg. Output Power (dBm)	Total Avg. Output Power (mW)	Antenna Gain (dBi)	EIRP (dBm)	Limit			RESULT
			CH 0	CH 1								
1	2412	6	15.56	15.22	18.64	73.10	5.41	24.05	4W=	36	dBm	PASS
6	2437	6	15.39	15.18	18.53	71.32	5.41	23.94	4W=	36	dBm	PASS
11	2462	6	15.71	15.46	18.83	76.43	5.41	24.24	4W=	36	dBm	PASS
12	2467	6	14.84	14.74	18.04	60.26	5.41	23.45	4W=	36	dBm	PASS
13	2472	6	9.06	8.98	12.27	15.96	5.41	17.68	4W=	36	dBm	PASS

802.11n_HT20M MIMO												
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Avg. Output Power (dBm)	Total Avg. Output Power (mW)	Antenna Gain (dBi)	EIRP (dBm)	Limit			RESULT
			CH 0	CH 1								
1	2412	MCS8	15.59	15.85	18.99	79.19	5.41	24.40	4W=	36	dBm	PASS
6	2437	MCS8	15.61	15.71	18.93	78.07	5.41	24.34	4W=	36	dBm	PASS
11	2462	MCS8	15.53	15.71	18.89	77.37	5.41	24.30	4W=	36	dBm	PASS
12	2467	MCS8	13.44	12.91	16.45	41.62	5.41	21.86	4W=	36	dBm	PASS
13	2472	MCS8	4.33	4.10	7.48	5.28	5.41	12.89	4W=	36	dBm	PASS

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802.11n_HT40M MIMO

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Avg. Output Power (dBm)	Total Peak Output Power (mW)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
			CH 0	CH 1						
3	2422	MCS8	15.81	14.22	18.95	78.60	5.41	24.37	4W= 36 dBm	PASS
6	2437	MCS8	15.82	14.14	18.93	78.12	5.41	24.34	4W= 36 dBm	PASS
9	2452	MCS8	15.78	14.21	18.93	78.21	5.41	24.34	4W= 36 dBm	PASS
10	2457	MCS8	13.34	12.83	16.96	40.76	5.41	22.38	4W= 36 dBm	PASS
11	2462	MCS8	8.23	7.76	11.87	12.62	5.41	17.28	4W= 36 dBm	PASS

802.11n_VHT20M MIMO

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Avg. Output Power (dBm)	Total Avg. Output Power (mW)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
			CH 0	CH 1						
1	2412	MCS8	15.52	15.77	18.91	77.83	5.41	24.32	4W= 36 dBm	PASS
6	2437	MCS8	15.33	15.58	18.72	74.50	5.41	24.13	4W= 36 dBm	PASS
11	2462	MCS8	15.46	15.75	18.87	77.13	5.41	24.28	4W= 36 dBm	PASS
12	2467	MCS8	13.26	12.76	16.28	40.06	5.41	21.69	4W= 36 dBm	PASS
13	2472	MCS8	4.14	3.95	7.31	5.08	5.41	12.72	4W= 36 dBm	PASS

802.11n_VHT40M MIMO

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Avg. Output Power (dBm)	Total Avg. Output Power (mW)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
			CH 0	CH 1						
3	2422	MCS8	15.63	14.06	18.78	75.55	5.41	24.19	4W= 36 dBm	PASS
6	2437	MCS8	15.65	13.99	18.77	75.26	5.41	24.18	4W= 36 dBm	PASS
9	2452	MCS8	15.62	14.03	18.76	75.24	5.41	24.18	4W= 36 dBm	PASS
10	2457	MCS8	13.24	12.68	16.84	39.62	5.41	22.25	4W= 36 dBm	PASS
11	2462	MCS8	7.99	7.75	11.74	12.25	5.41	17.15	4W= 36 dBm	PASS

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

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8.6 Some channels have reduced power and were tested at the reduced power

802.11	Channel list	Power value (dBm)
g	Channel 12	15
	Channel 13	9
n_HT20	Channel 12	13.5
	Channel 13	4.5
n_HT40	Channel 10	14
	Channel 11	9

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9 6DB & 99% BANDWIDTH MEASUREMENT

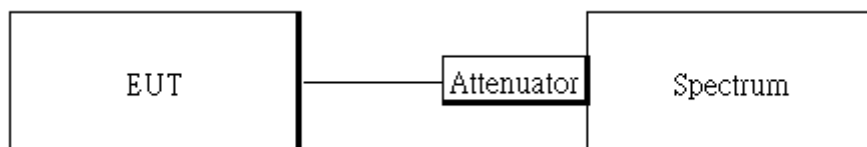
9.1 Standard Applicable

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	MY51440113	06/20/2017	06/19/2018
Coaxial Cable 30cm	WOKEN	00100A1F1 A195C	RF01	12/24/2017	12/23/2018
DC Block	PASTERNAK	PE8210	RF29	12/24/2017	12/23/2018
Attenuator	WOKEN	218FS-10	RF23	12/24/2017	12/23/2018
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018

9.3 Test Set-up



9.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. For 6dB Bandwidth:
Set the spectrum analyzer as RBW = 100 kHz, VBW = 3*RBW, Span = 30M/50MHz, Detector=peak, Sweep=auto.
5. Mark the peak frequency and -6dB (upper and lower) frequency.
6. For 99% Bandwidth:
Set the spectrum analyzer as RBW=1%, VBW = 3*RBW, Span = 30M/50MHz, Detector=Peak, 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 CH0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	8102	> 500	PASS
2437	8070	> 500	PASS
2462	8090	> 500	PASS
2467	8087	> 500	PASS
2472	8071	> 500	PASS

802.11b CH1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	8100	> 500	PASS
2437	8082	> 500	PASS
2462	8094	> 500	PASS
2467	8080	> 500	PASS
2472	8074	> 500	PASS

802.11g CH0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16270	> 500	PASS
2437	15750	> 500	PASS
2462	16030	> 500	PASS
2467	15950	> 500	PASS
2472	15750	> 500	PASS

802.11g CH1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16090	> 500	PASS
2437	15710	> 500	PASS
2462	16050	> 500	PASS
2467	15970	> 500	PASS
2472	15750	> 500	PASS

802.11_n_HT20 CH0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16340	> 500	PASS
2437	15920	> 500	PASS
2462	16040	> 500	PASS
2467	16570	> 500	PASS
2472	15750	> 500	PASS

802.11_n_HT20 CH1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16570	> 500	PASS
2437	16290	> 500	PASS
2462	15730	> 500	PASS
2467	16950	> 500	PASS
2472	16930	> 500	PASS

802.11_n_HT40 CH0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35190	> 500	PASS
2437	35180	> 500	PASS
2452	35380	> 500	PASS
2457	35370	> 500	PASS
2462	35480	> 500	PASS

802.11_n_HT40 CH1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35190	> 500	PASS
2437	35190	> 500	PASS
2452	35370	> 500	PASS
2457	35470	> 500	PASS
2462	35480	> 500	PASS

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99% Bandwidth

802.11b CH0		802.11b CH1	
Freq. (MHz)	99% BW (MHz)	Freq. (MHz)	99% BW (MHz)
2412	13.220	2412	13.261
2437	13.071	2437	13.063
2462	13.048	2462	13.069
2467	13.096	2467	13.080
2472	13.054	2472	13.043

802.11g CH0		802.11g CH1	
Freq. (MHz)	99% BW (MHz)	Freq. (MHz)	99% BW (MHz)
2412	16.609	2412	16.578
2437	16.490	2437	16.515
2462	16.584	2462	16.548
2467	16.495	2467	16.497
2472	16.480	2472	16.488

802.11n_HT20M CH0		802.11n_HT20M CH1	
Freq. (MHz)	99% BW (MHz)	Freq. (MHz)	99% BW (MHz)
2412	17.681	2412	17.680
2437	17.616	2437	17.630
2462	17.645	2462	17.646
2467	17.613	2467	17.587
2472	17.607	2472	17.599

802.11n_HT40M CH0		802.11n_HT40M CH1	
Freq. (MHz)	99% BW (MHz)	Freq. (MHz)	99% BW (MHz)
2422	36.226	2422	36.242
2437	36.115	2437	36.128
2452	36.141	2452	36.141
2457	36.248	2457	36.068
2462	36.197	2462	36.105

**Refer to next page for plots*

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802.11b (CH0)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-High 2467MHz



6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High 2472MHz



6dB Band Width Test Data CH-High



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802.11b (CH1)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-High 2467MHz



6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High 2472MHz



6dB Band Width Test Data CH-High



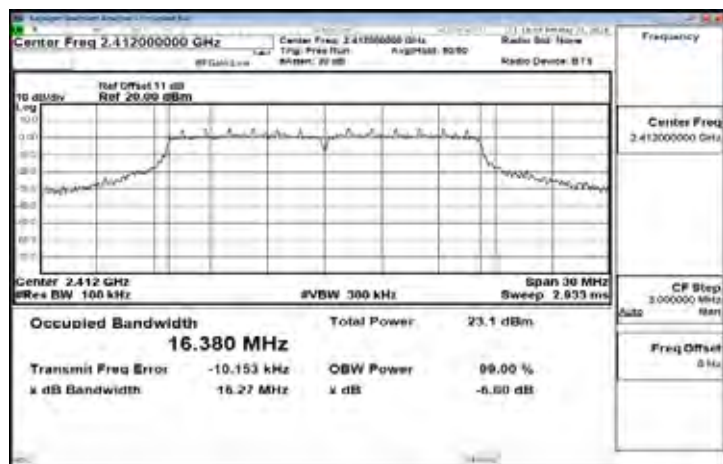
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802.11g (CH0)

6dB Band Width Test Data CH-Low



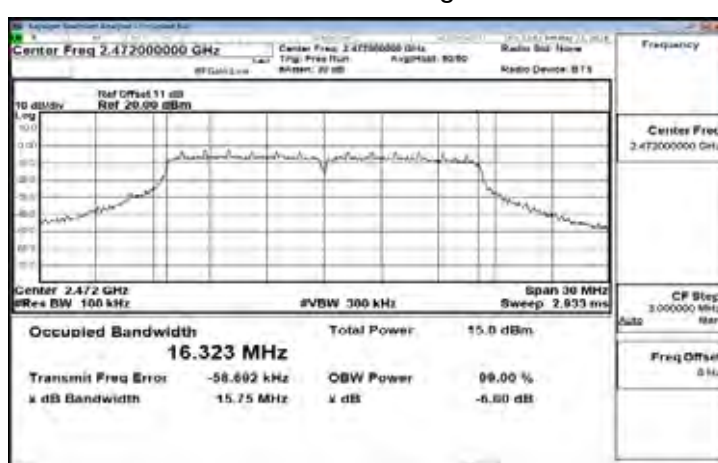
6dB Band Width Test Data CH-High 2467MHz



6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High 2472MHz



6dB Band Width Test Data CH-High



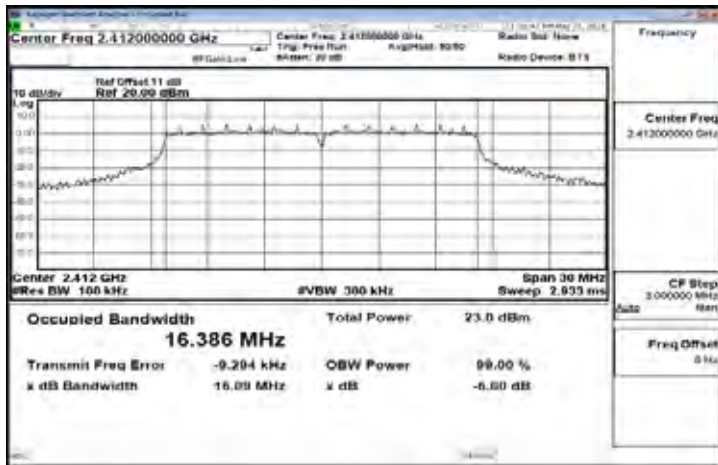
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802.11g (CH1)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-High 2467MHz



6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High 2472MHz



6dB Band Width Test Data CH-High



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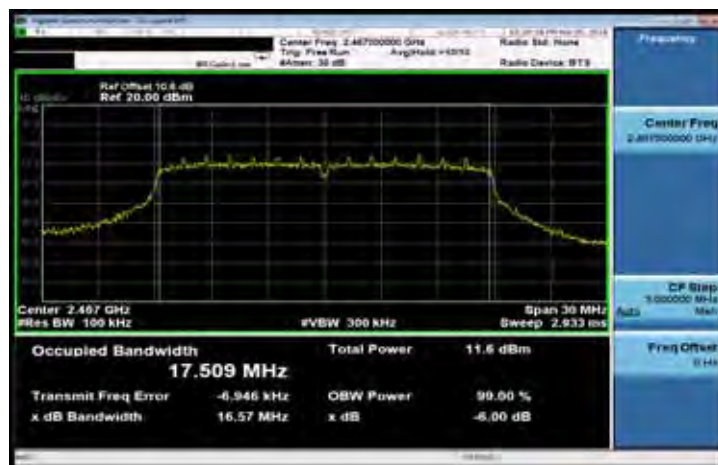
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802.11n_20M (CH0)

6dB Band Width Test Data CH-Low



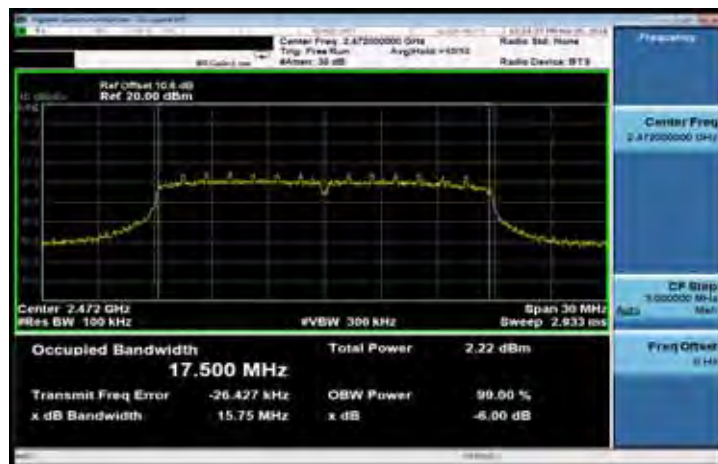
6dB Band Width Test Data CH-High 2467MHz



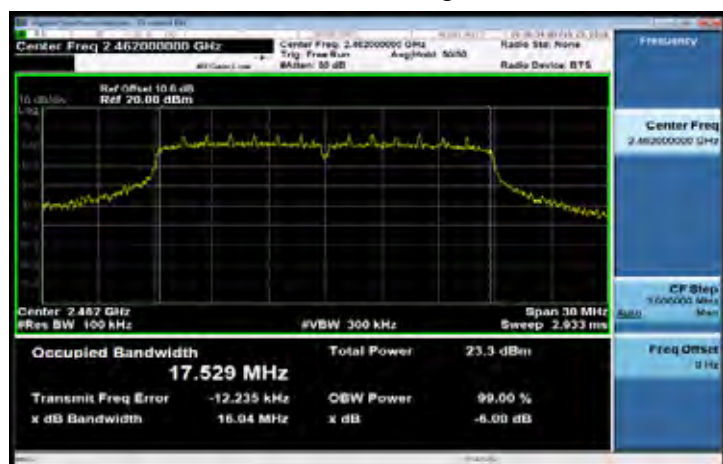
6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High 2472MHz



6dB Band Width Test Data CH-High



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802.11n_20M (CH1)

6dB Band Width Test Data CH-Low



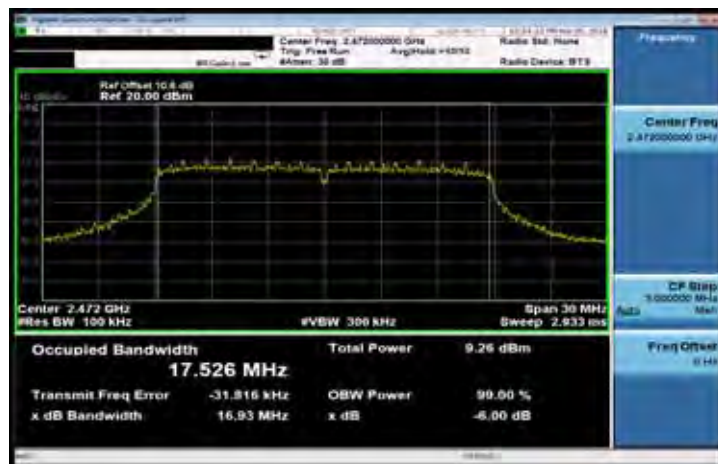
6dB Band Width Test Data CH-High 2467MHz



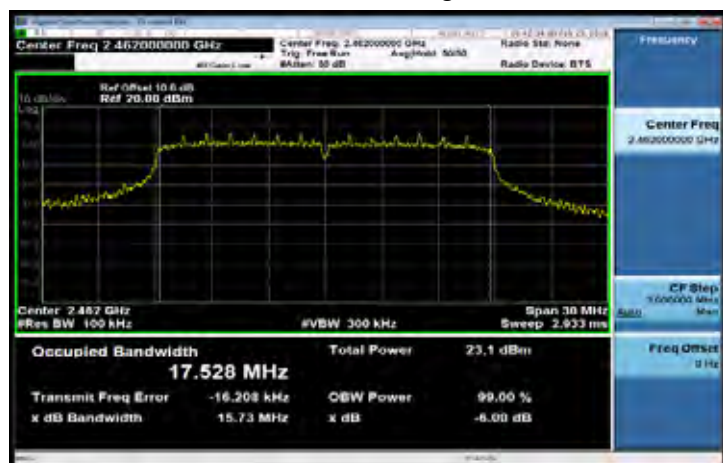
6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High 2472MHz



6dB Band Width Test Data CH-High



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802.11n_40M (CH0)

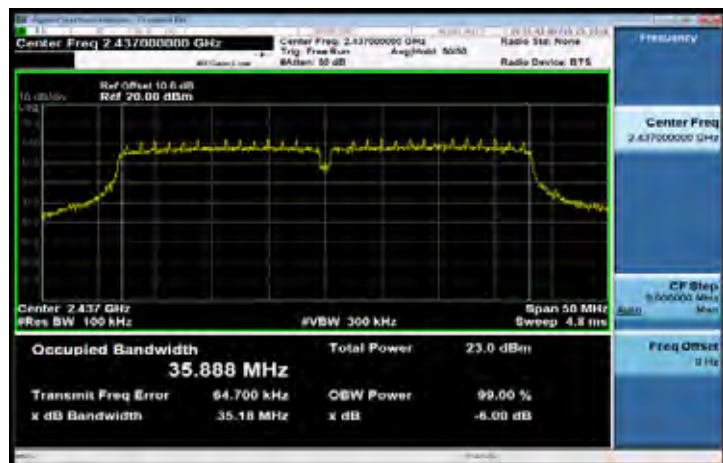
6dB Band Width Test Data CH-Low



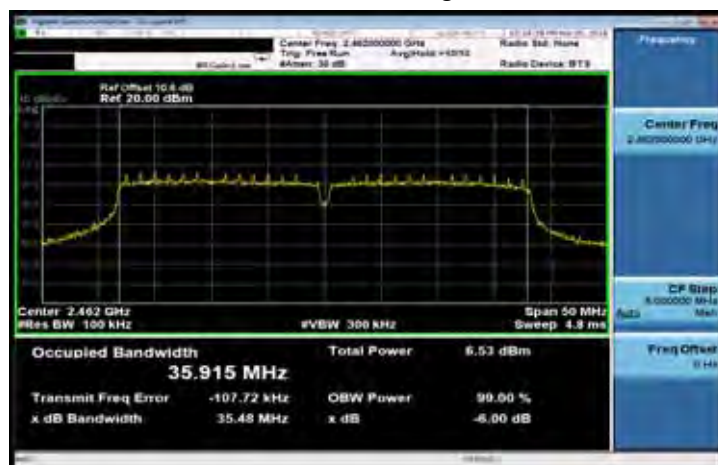
6dB Band Width Test Data CH-High 2457MHz



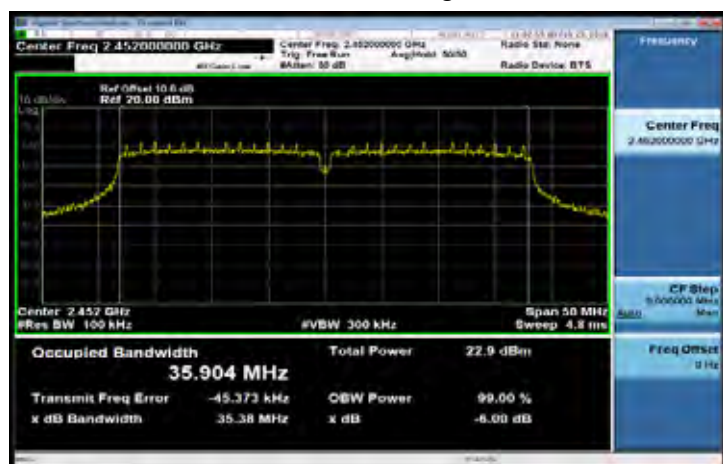
6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High 2462MHz



6dB Band Width Test Data CH-High



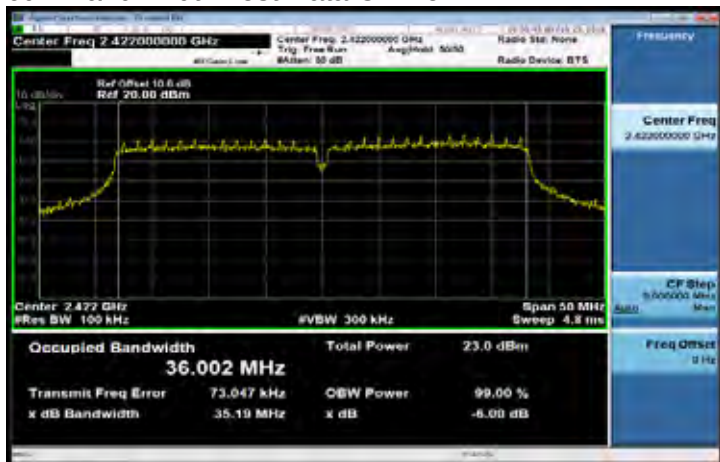
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802.11n_40M (CH1)

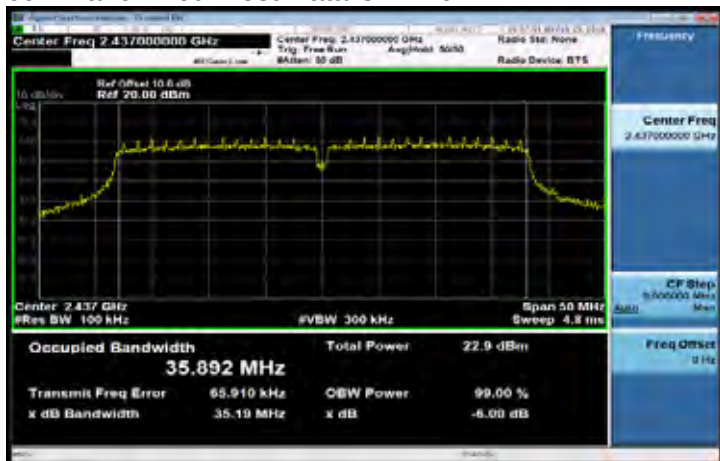
6dB Band Width Test Data CH-Low



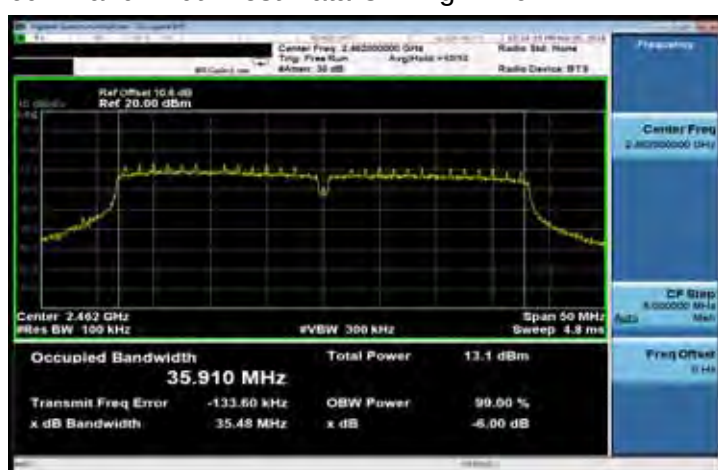
6dB Band Width Test Data CH-High 2457MHz



6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High 2462MHz



6dB Band Width Test Data CH-High



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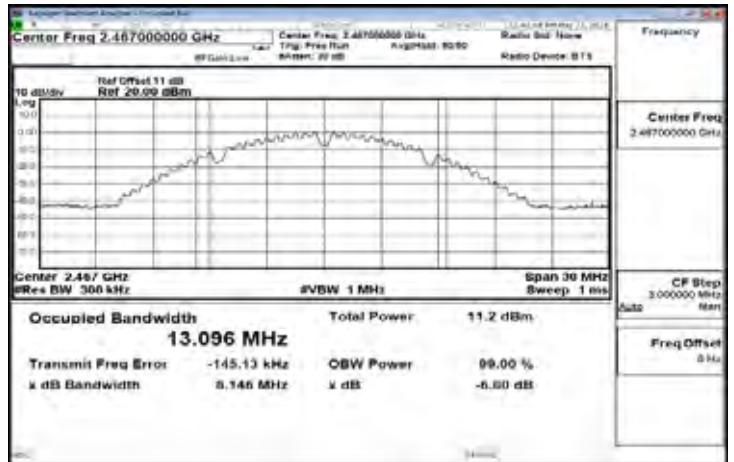
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802.11b (CH0)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-High 2467MHz



99% Band Width Test Data CH-Mid



99% Band Width Test Data CH-High 2472MHz



99% Band Width Test Data CH-High



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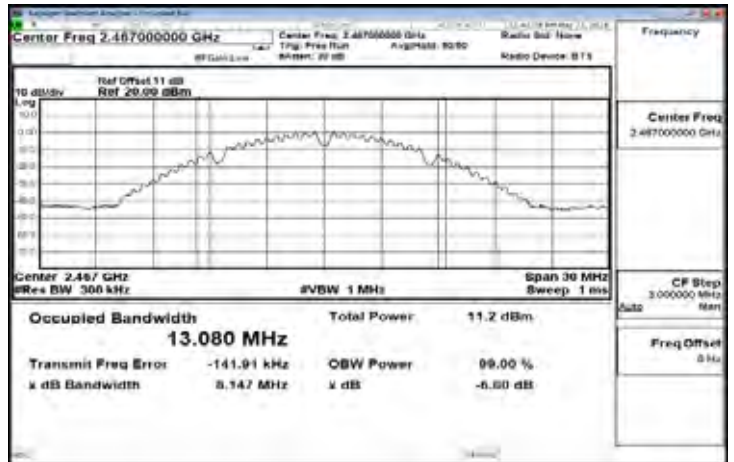
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802.11b (CH1)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-High 2467MHz



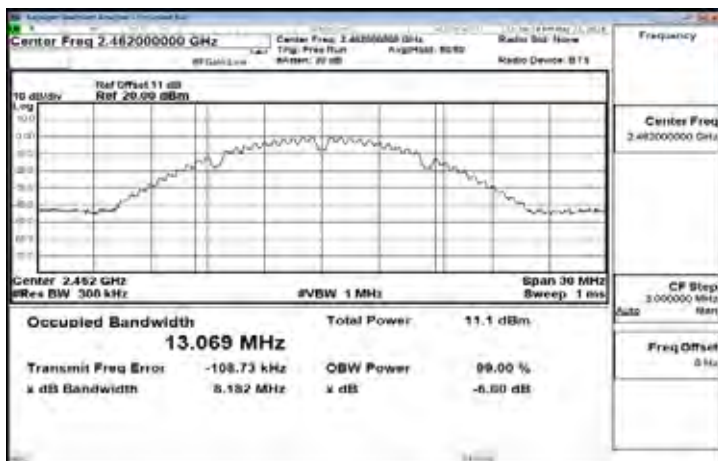
99% Band Width Test Data CH-Mid



99% Band Width Test Data CH-High 2472MHz



99% Band Width Test Data CH-High



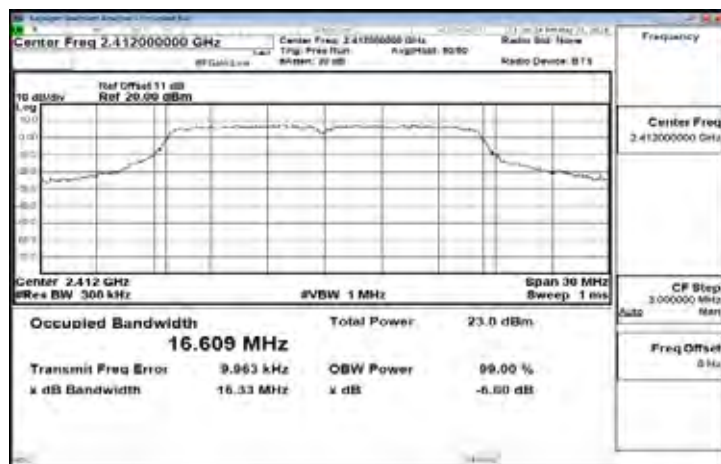
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802.11g (CH0)

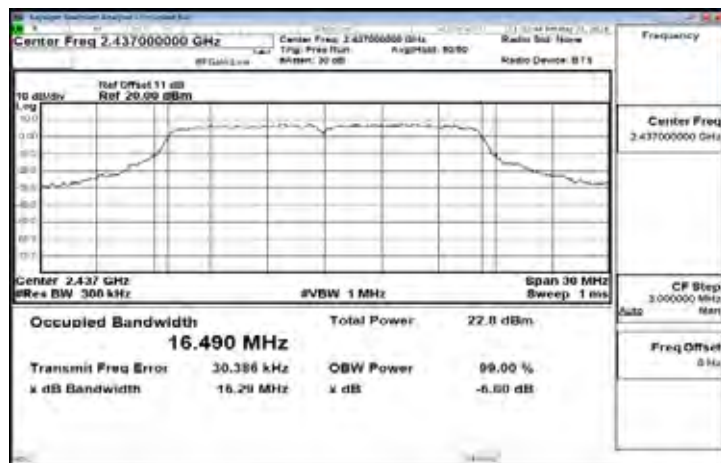
99% Band Width Test Data CH-Low



99% Band Width Test Data CH-High 2467MHz



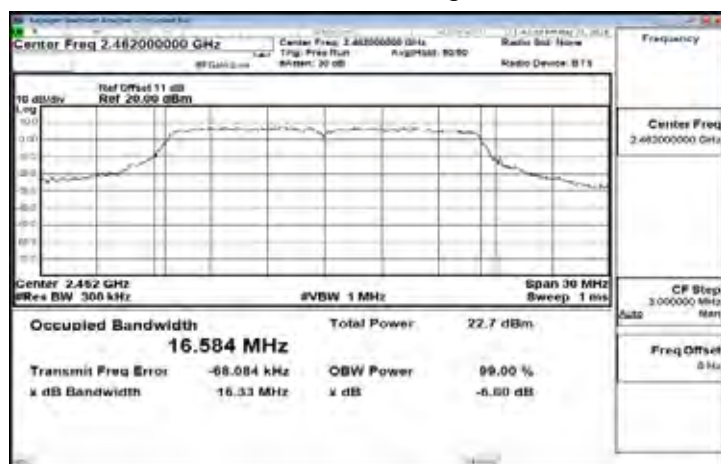
99% Band Width Test Data CH-Mid



99% Band Width Test Data CH-High 2472MHz



99% Band Width Test Data CH-High



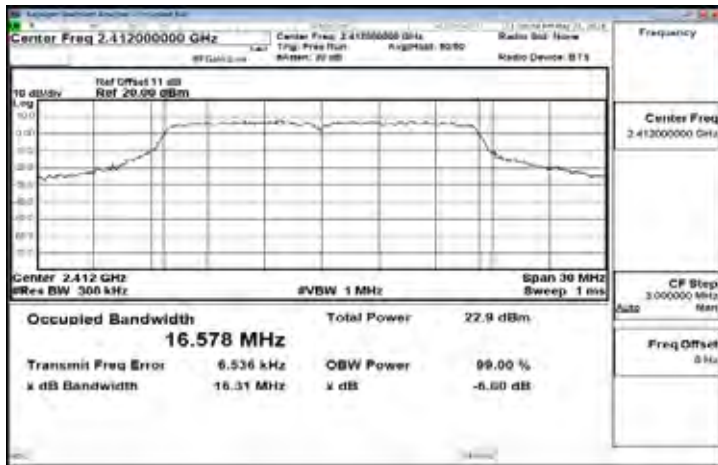
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802.11g (CH1)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-High 2467MHz



99% Band Width Test Data CH-Mid



99% Band Width Test Data CH-High 2472MHz



99% Band Width Test Data CH-High



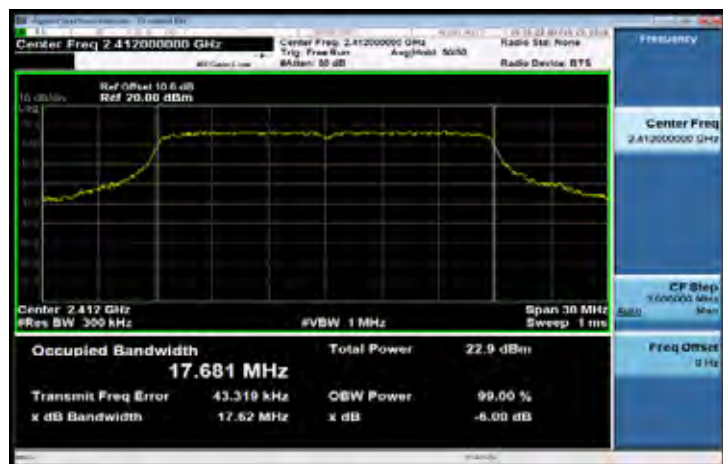
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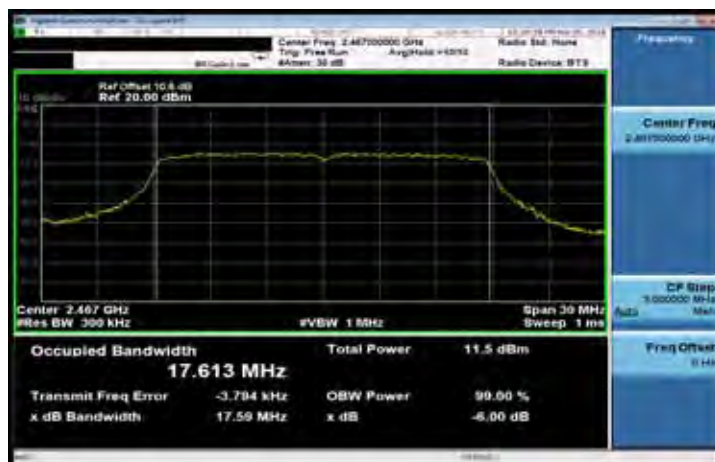
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802.11n_20M (CH0)

99% Band Width Test Data CH-Low



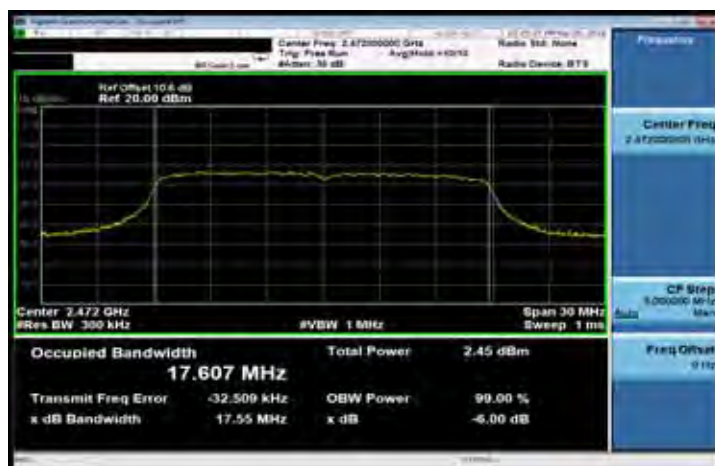
99% Band Width Test Data CH-High 2467MHz



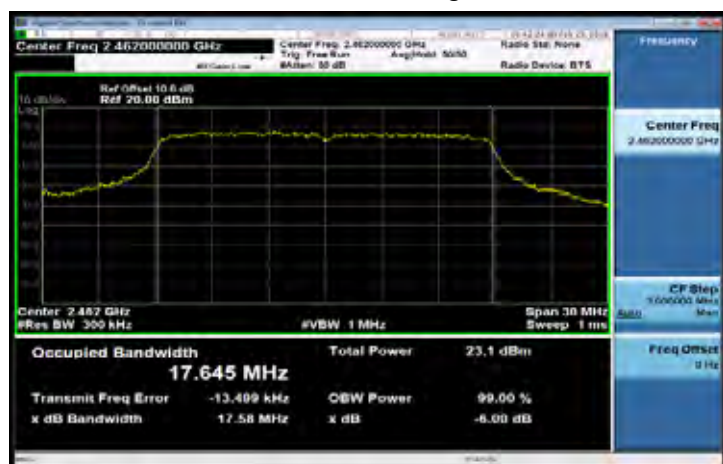
99% Band Width Test Data CH-Mid



99% Band Width Test Data CH-High 2472MHz



99% Band Width Test Data CH-High



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802.11n_20M (CH1)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-High 2467MHz



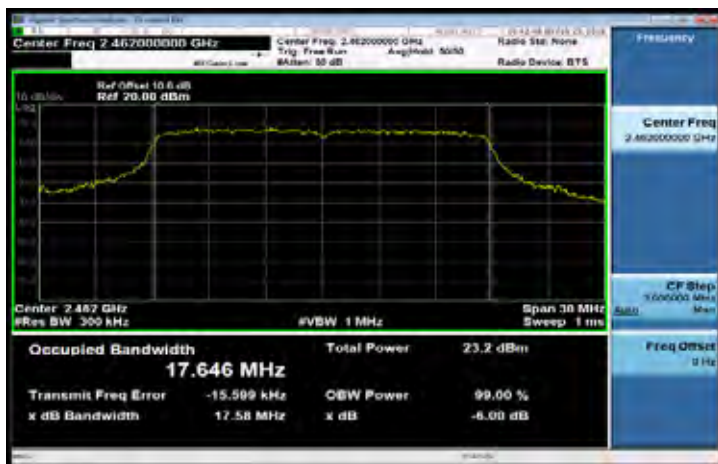
99% Band Width Test Data CH-Mid



99% Band Width Test Data CH-High 2472MHz



99% Band Width Test Data CH-High



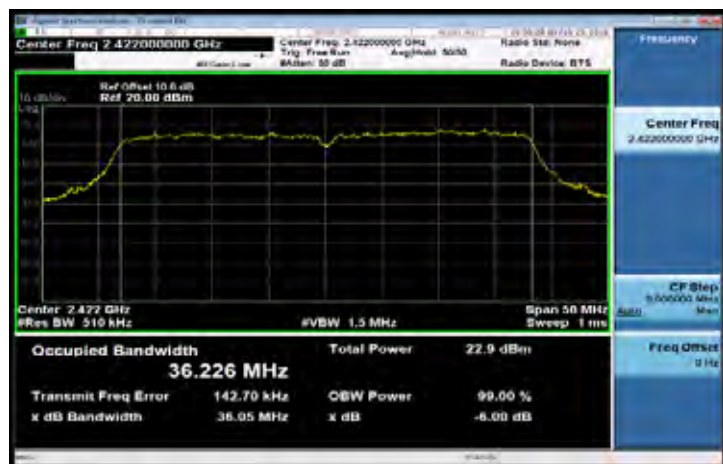
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802.11n_40M (CH0)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-High 2457MHz



99% Band Width Test Data CH-Mid



99% Band Width Test Data CH-High 2462MHz



99% Band Width Test Data CH-High



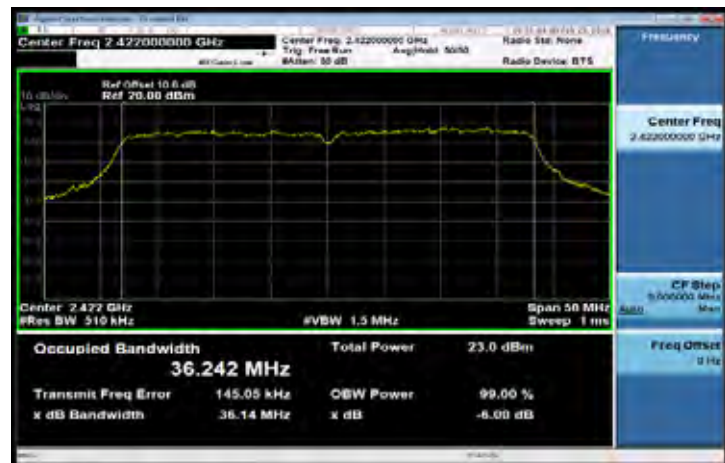
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802.11n_40M (CH1)

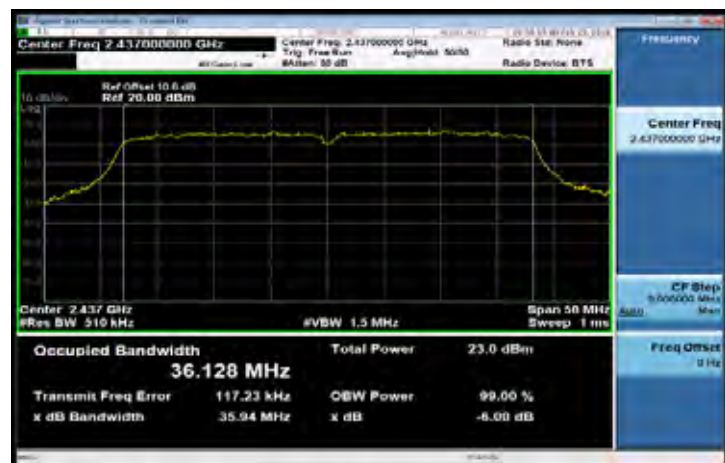
99% Band Width Test Data CH-Low



99% Band Width Test Data CH-High 2457MHz



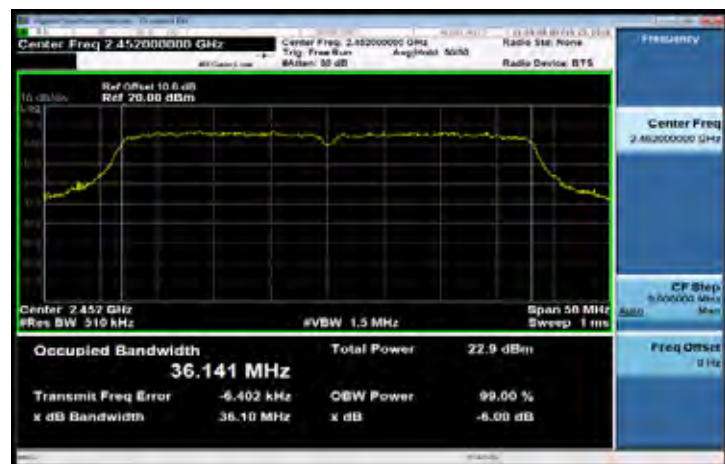
99% Band Width Test Data CH-Mid



99% Band Width Test Data CH-High 2462MHz



99% Band Width Test Data CH-High



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10 CONDUCTED BAND EDGE 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.

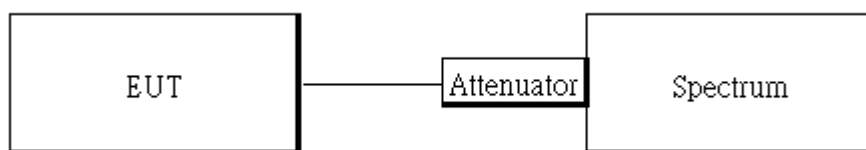
In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) & RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.8.

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	MY51440113	06/20/2017	06/19/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A 195C	RF01	12/24/2017	12/23/2018
DC Block	PASTERNAK	PE8210	RF29	12/24/2017	12/23/2018
Attenuator	WOKEN	218FS-10	RF23	12/24/2017	12/23/2018
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018

10.3 Test SET-UP



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10.4 Measurement Procedure

Conducted Band Edge Limit

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 = 100kHz & VBW = 300 kHz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

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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7. 802.11n MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna. N=2 for this given application for the test of PSD at MIMO mode, the highest emission of worst case is employing.

10.5 Measurement Result

Reference Level of Limit 802.11b mode			Reference Level of Limit 802.11g mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)	Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	2.17	-17.83	2412	8.48	-11.52
2437	2.579	-17.42	2437	8.43	-11.57
2462	1.90	-18.10	2462	8.46	-11.54
2467	1.92	-18.08	2467	6.04	-13.96
2472	2.28	-17.72	2472	0.53	-19.47
Reference Level of Limit 802.11n20 mode			Reference Level of Limit 802.11n40 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)	Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	8.59	-11.41	2422	6.49	-13.51
2437	8.41	-11.59	2437	5.59	-14.41
2462	8.81	-11.19	2452	5.23	-14.77
2467	5.91	-14.09	2457	3.52	-16.48
2472	-3.32	-23.32	2462	-2.34	-22.34

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802.11b Band Edge Limit Test Data CH-Low



802.11b Band Edge Limit Test Data CH-High 2467MHz



802.11b Band Edge Limit Test Data CH-Mid



802.11b Band Edge Limit Test Data CH-High 2472Mhz



802.11b Band Edge Limit Test Data CH-High



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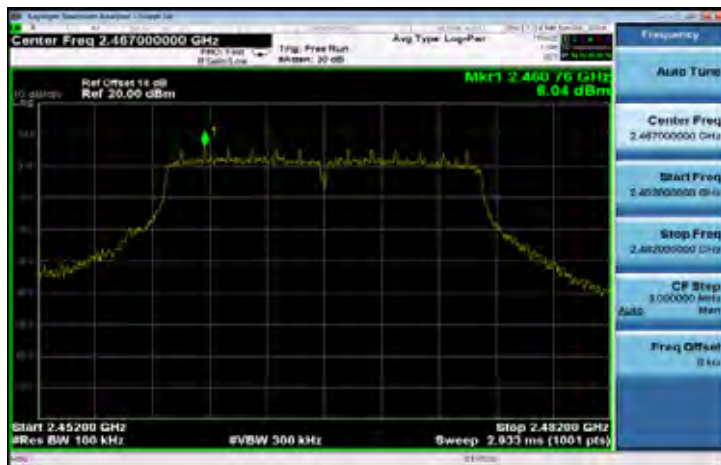
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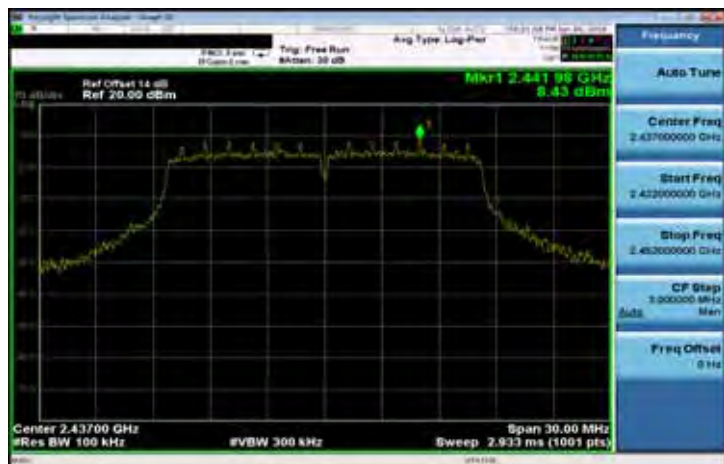
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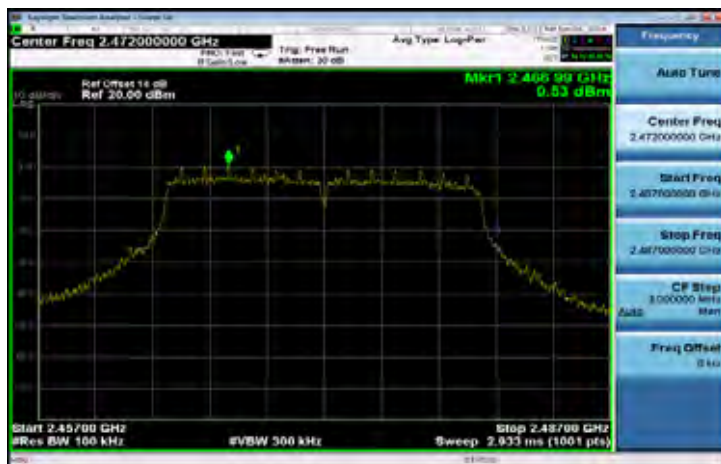
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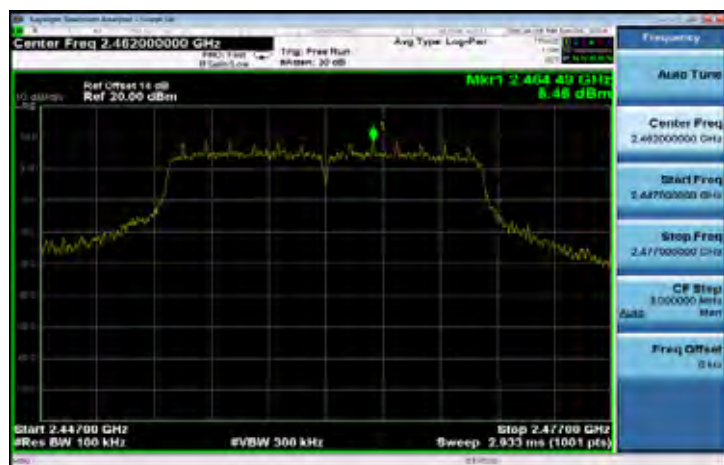
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802.11g Band Edge Limit Test Data CH-High 2472MHz



802.11g Band Edge Limit Test Data CH-High

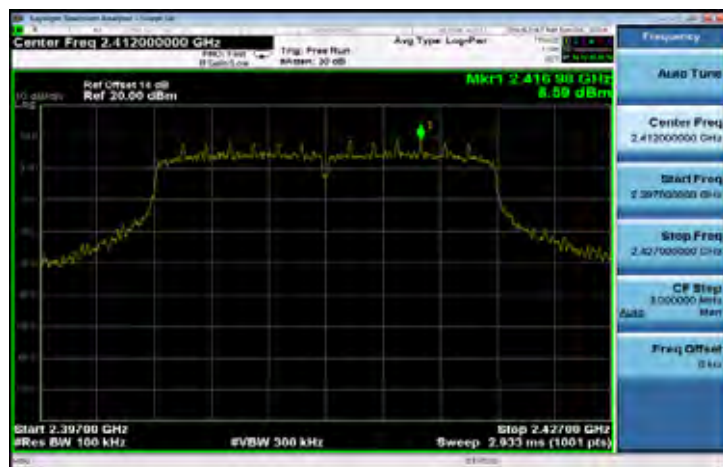


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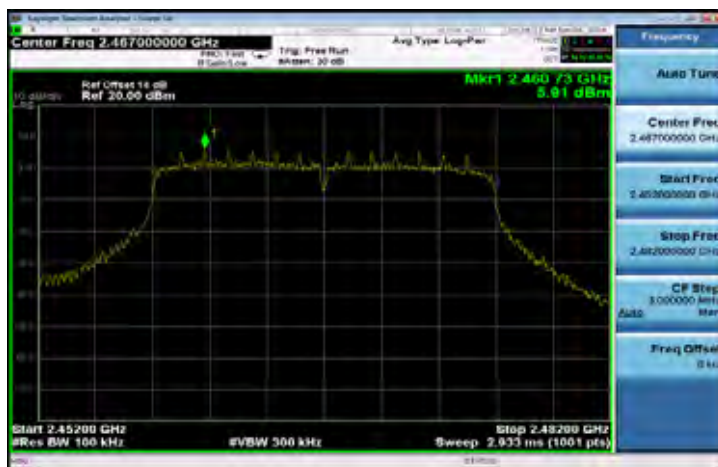
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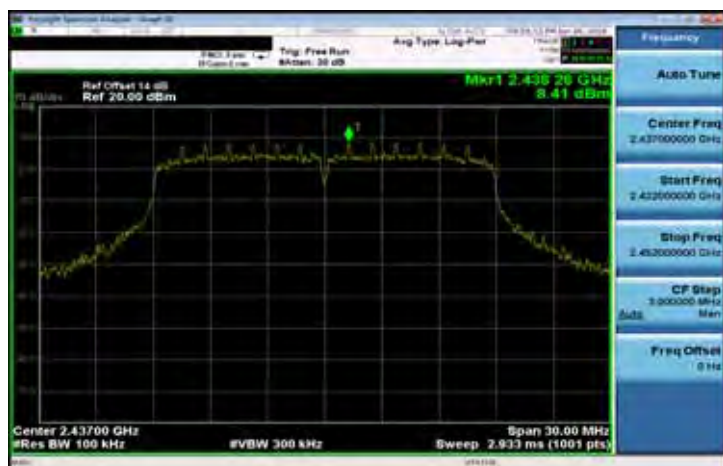
802.11n_HT20 Band Edge Limit Test Data CH-Low



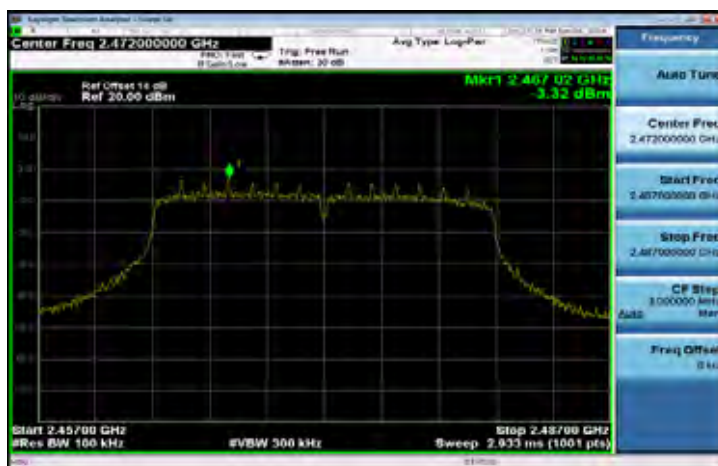
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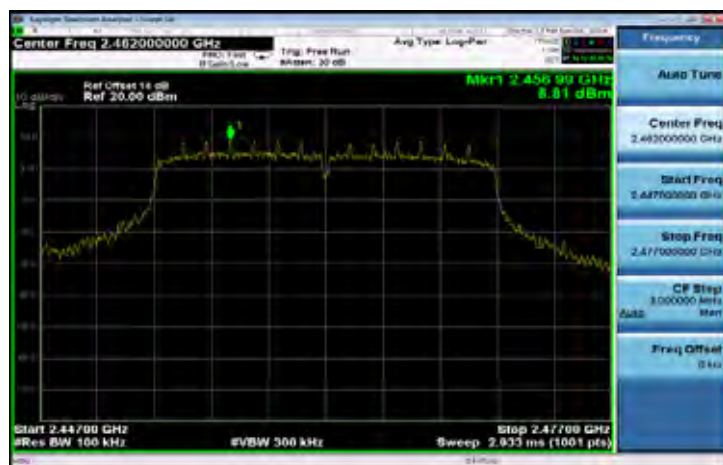
802.11n_HT20 Band Edge Limit Test Data CH-Mid



802.11n_HT20 Band Edge Limit Test Data CH-High 2472MHz



802.11n_HT20 Band Edge Limit Test Data CH-High

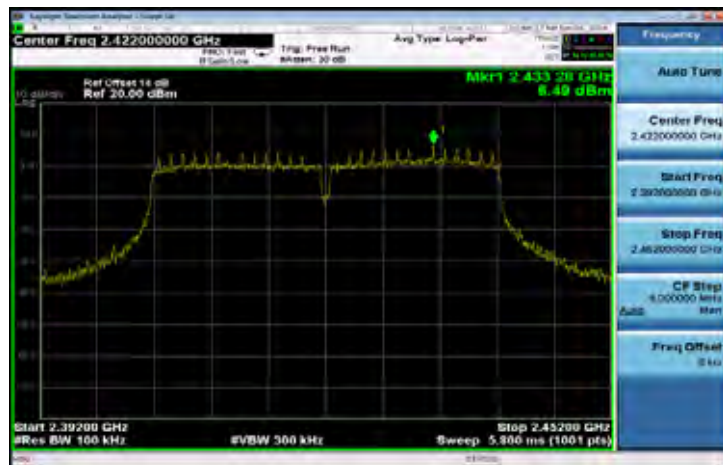


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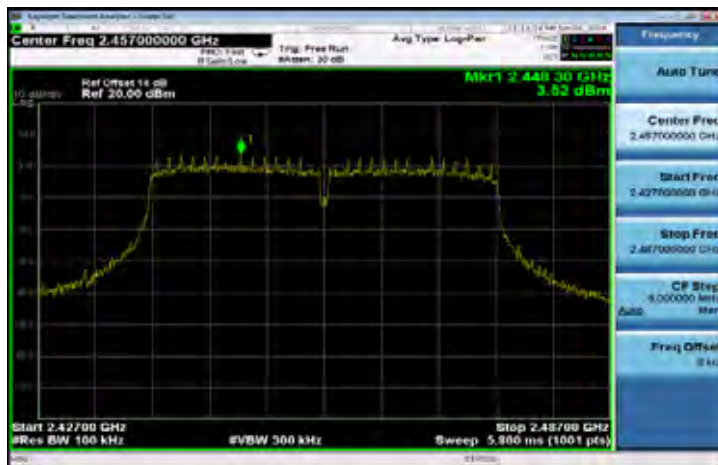
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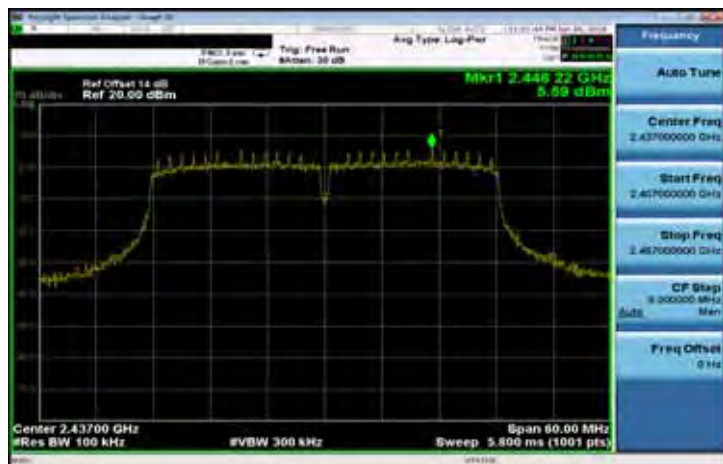
802.11n_HT40 Band Edge Limit Test Data CH-Low



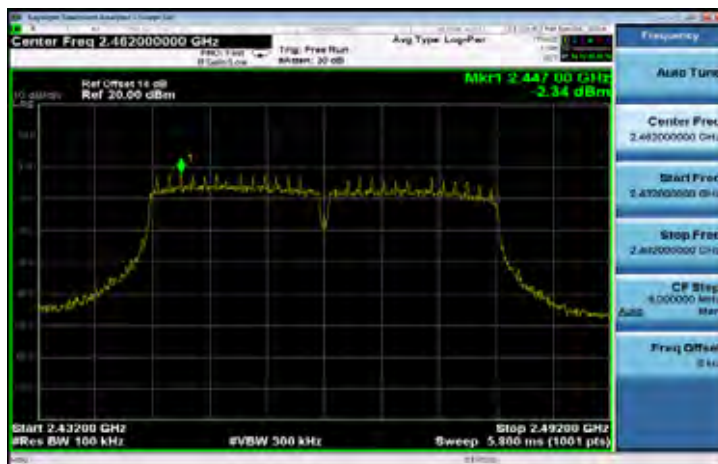
802.11n_HT40 Band Edge Limit Test Data CH-High 2457MHz



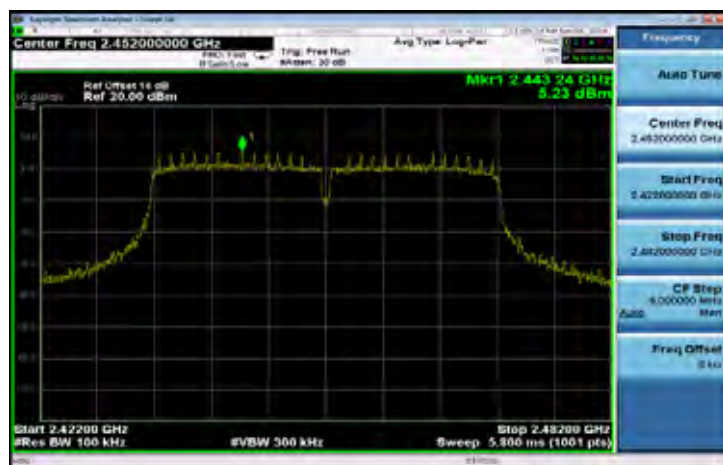
802.11n_HT40 Band Edge Limit Test Data CH-Mid



802.11n_HT40 Band Edge Limit Test Data CH-High 2462MHz



802.11n_HT40 Band Edge Limit Test Data CH-High



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802.11b

Band Edge Test Data CH-Low



Band Edge Test Data CH-High 2472MHz



Band Edge Test Data CH-High



Band Edge Test Data CH-High 2467MHz



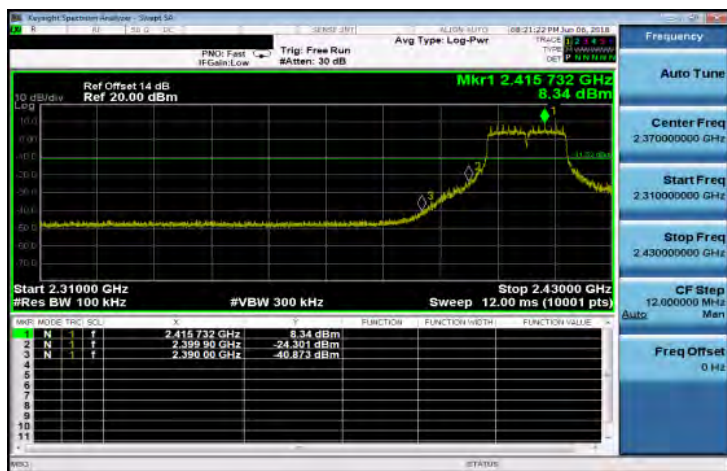
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802.11g

Band Edge Test Data CH-Low



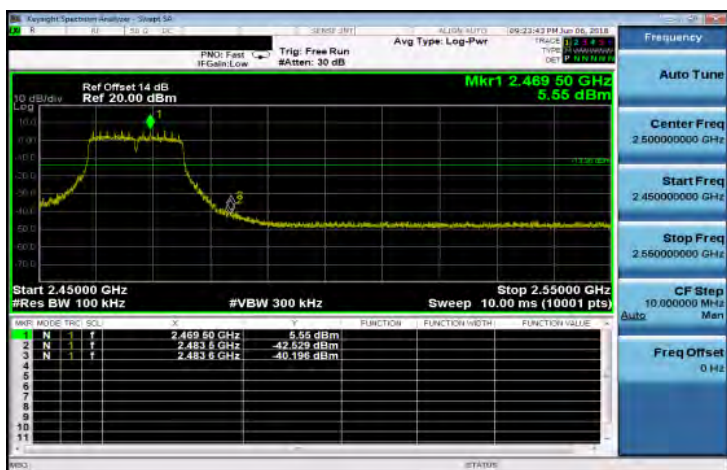
Band Edge Test Data CH-High 2472MHz



Band Edge Test Data CH-High



Band Edge Test Data CH-High 2467MHz



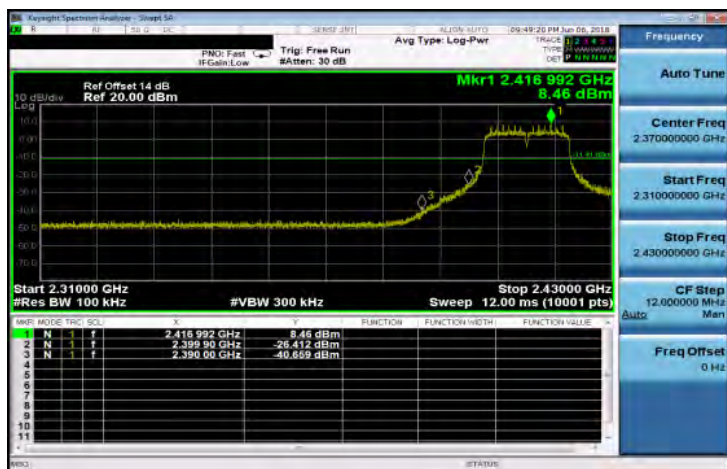
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802.11n_HT20

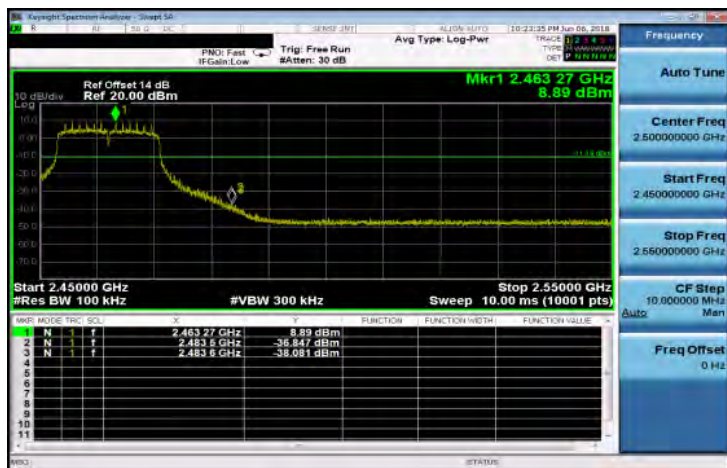
Band Edge Test Data CH-Low



Band Edge Test Data CH-High 2472 MHz



Band Edge Test Data CH-High



Band Edge Test Data CH-High 2467MHz



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802.11n_HT40

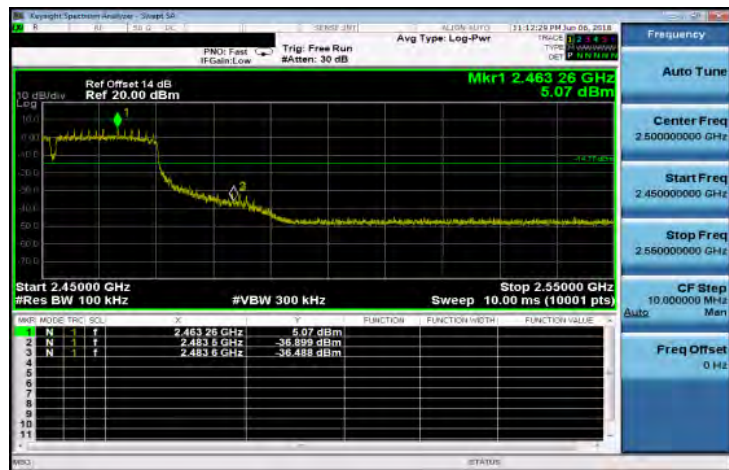
Band Edge Test Data CH-Low



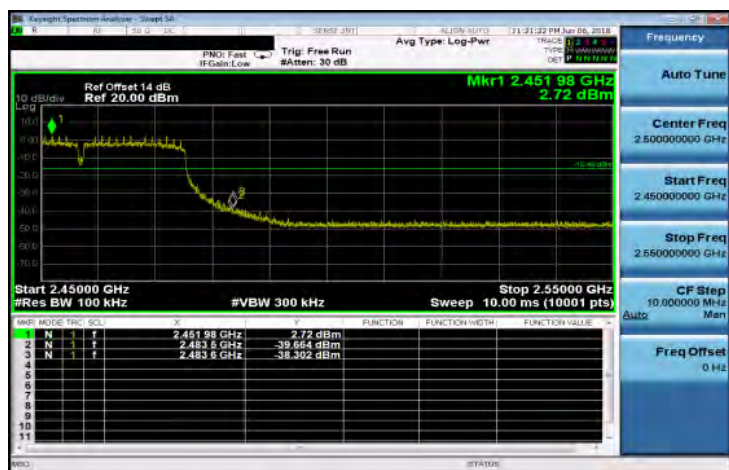
Band Edge Test Data CH-High 2462MHz



Band Edge Test Data CH-High



Band Edge Test Data CH-High 2457MHz



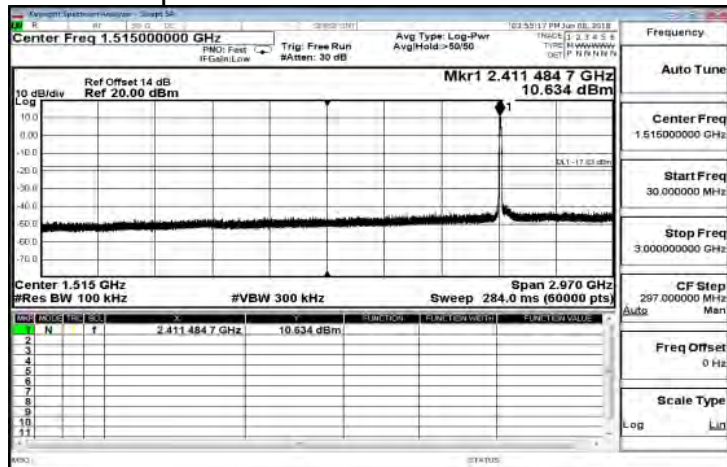
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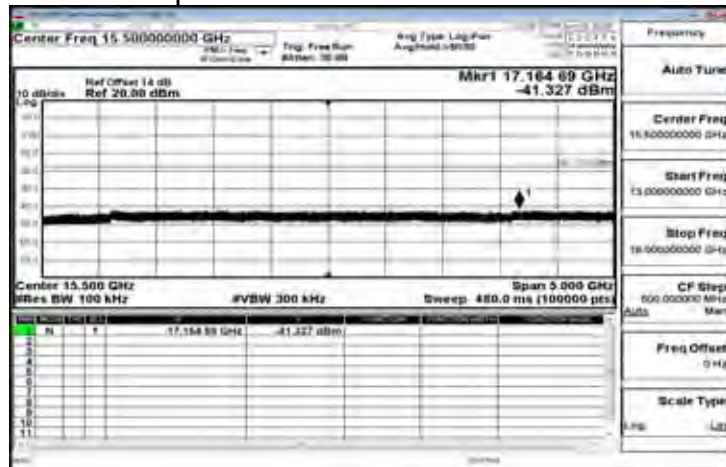
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802.11b

30M-3GHz Spurious Emission Test Data CH-Low



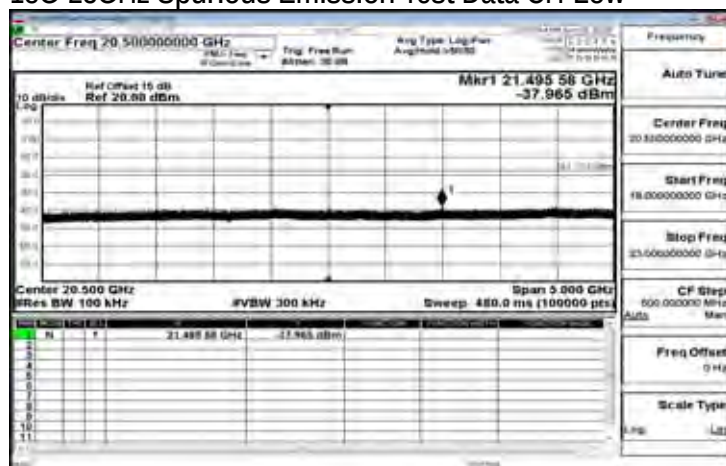
13G-18GHz Spurious Emission Test Data CH-Low



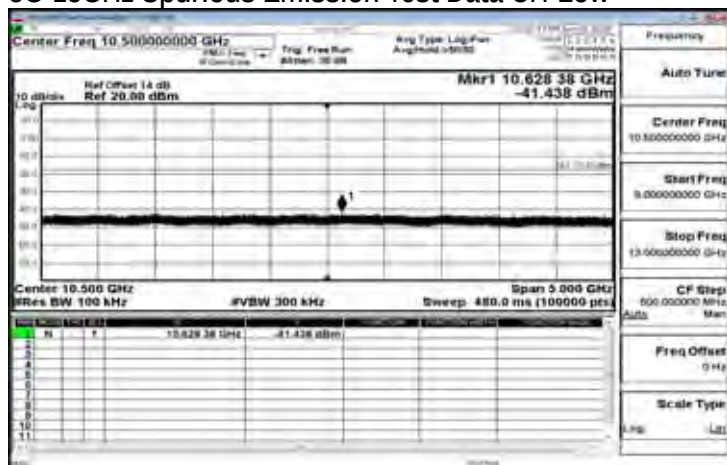
3G-8GHz Spurious Emission Test Data CH-Low



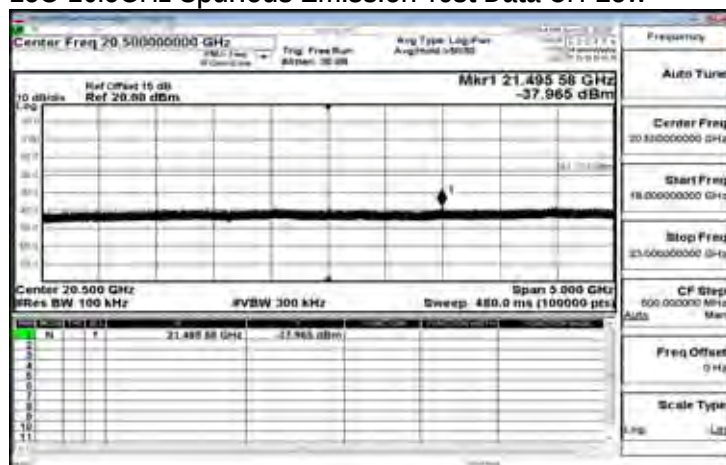
18G-23GHz Spurious Emission Test Data CH-Low



8G-13GHz Spurious Emission Test Data CH-Low



23G-26.5GHz Spurious Emission Test Data CH-Low

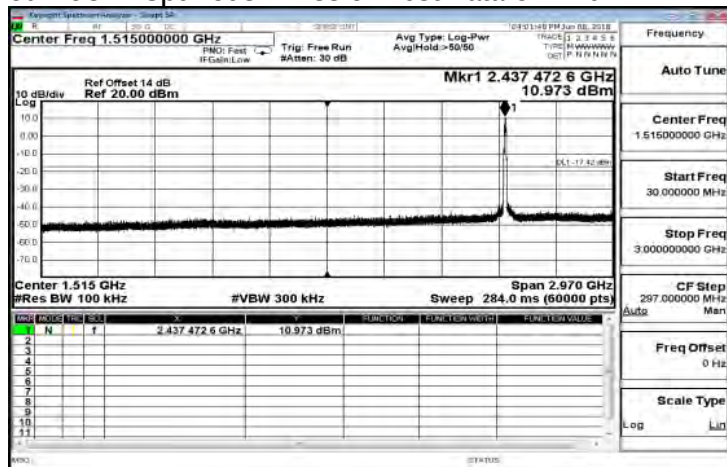


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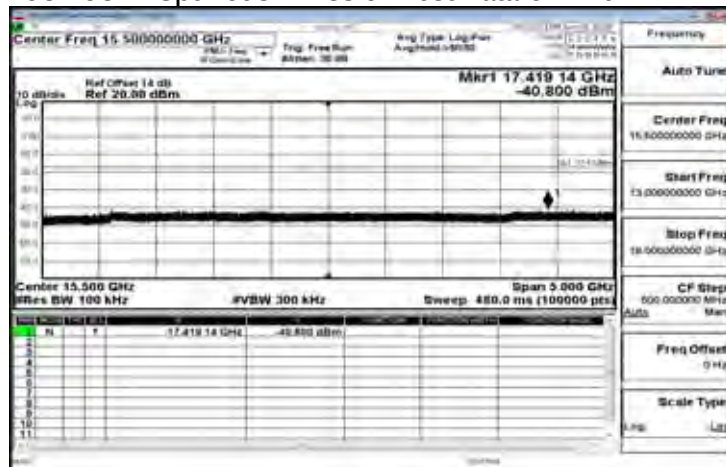
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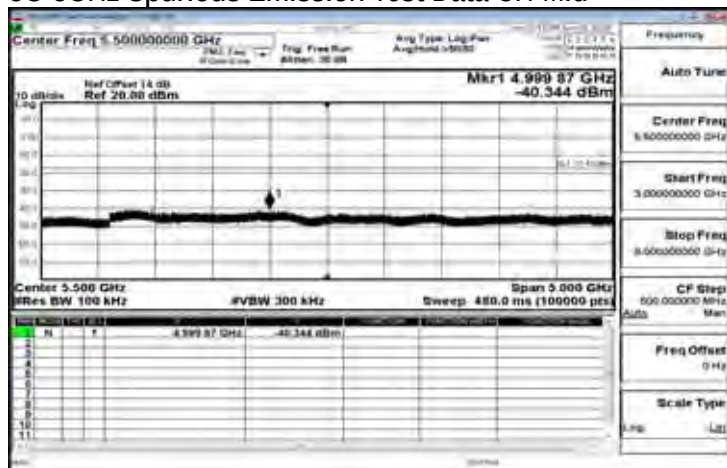
30M-3GHz Spurious Emission Test Data CH-Mid



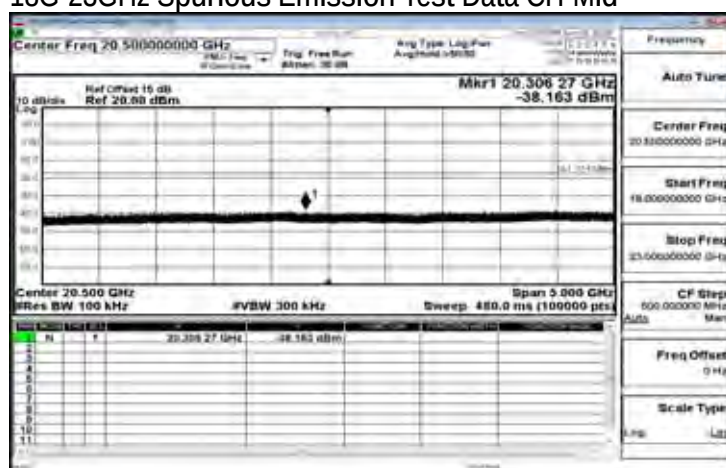
13G-18GHz Spurious Emission Test Data CH-Mid



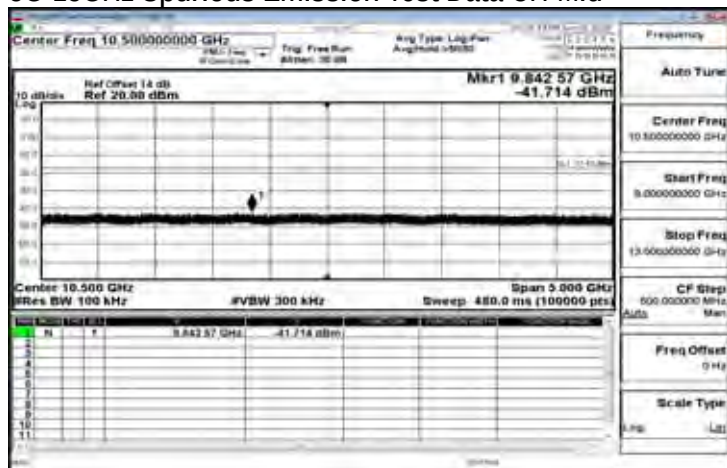
3G-8GHz Spurious Emission Test Data CH-Mid



18G-23GHz Spurious Emission Test Data CH-Mid



8G-13GHz Spurious Emission Test Data CH-Mid



23G-26.5GHz Spurious Emission Test Data CH-Mid



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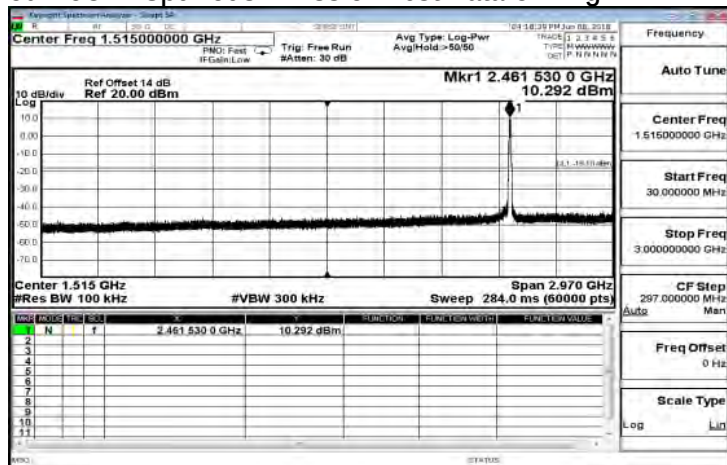
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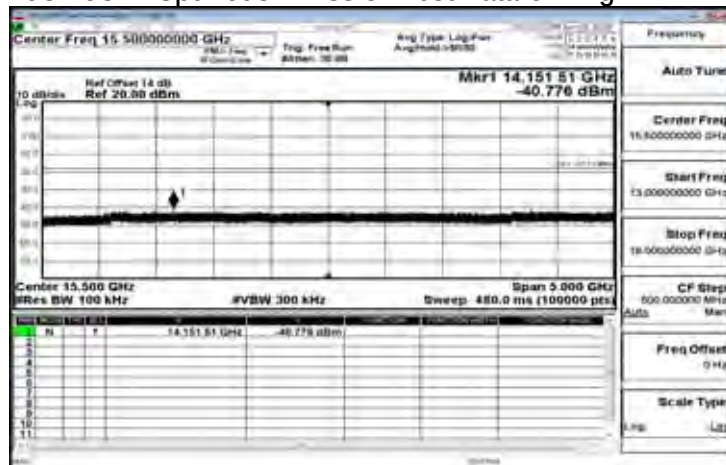
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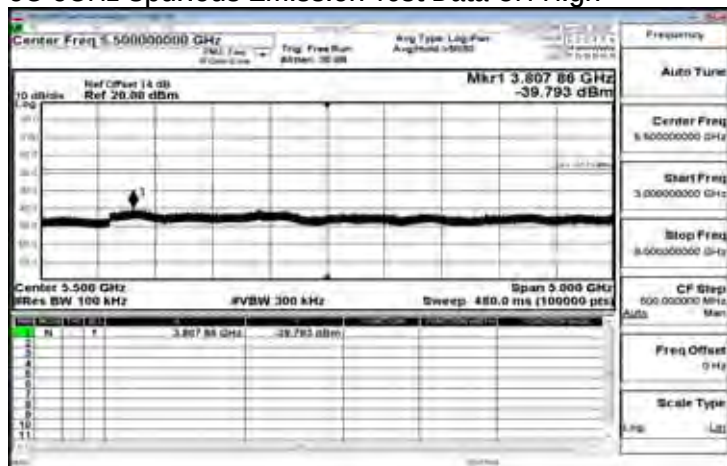
30M-3GHz Spurious Emission Test Data CH-High



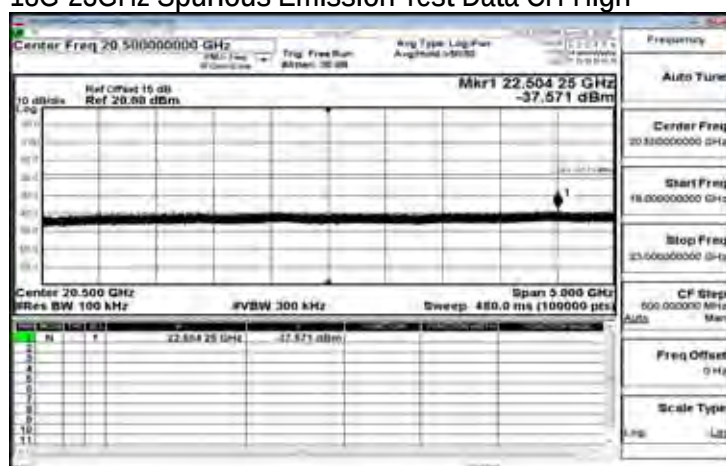
13G-18GHz Spurious Emission Test Data CH-High



3G-8GHz Spurious Emission Test Data CH-High



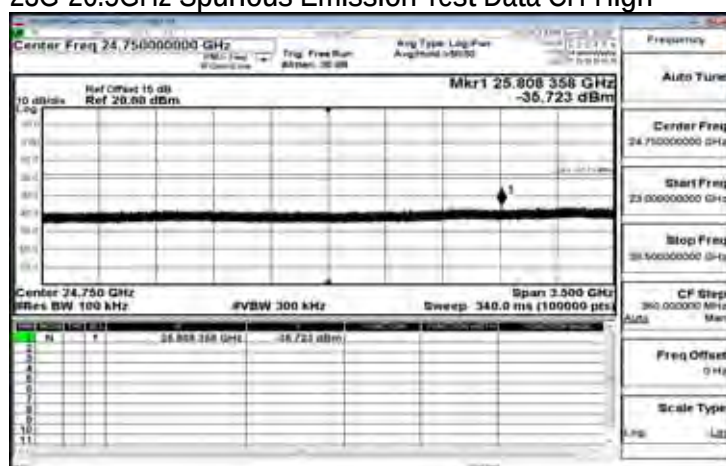
18G-23GHz Spurious Emission Test Data CH-High



8G-13GHz Spurious Emission Test Data CH-High



23G-26.5GHz Spurious Emission Test Data CH-High

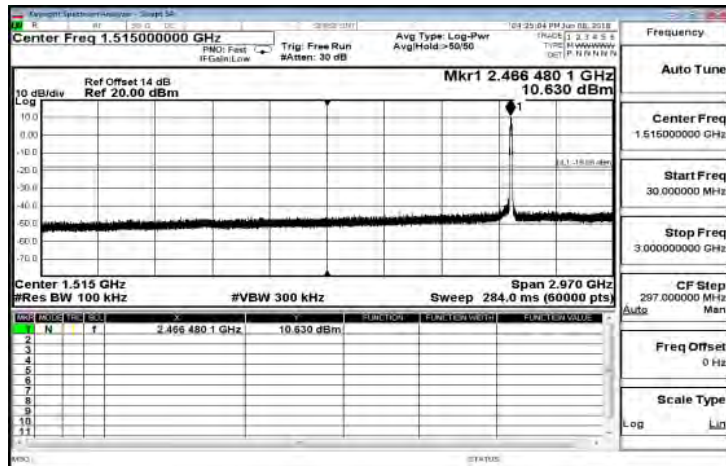


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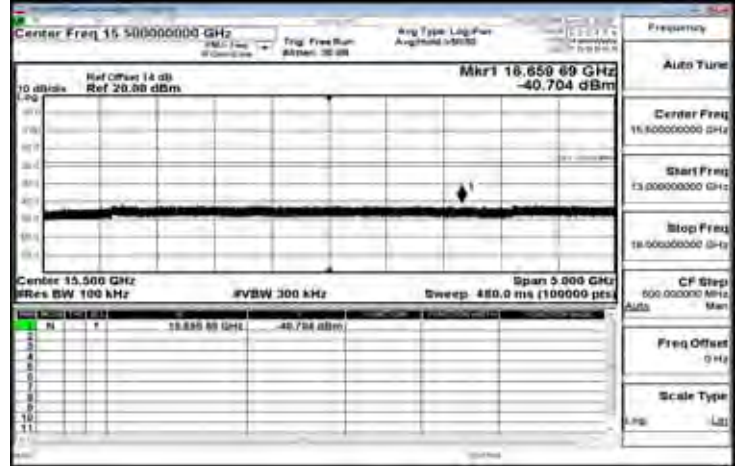
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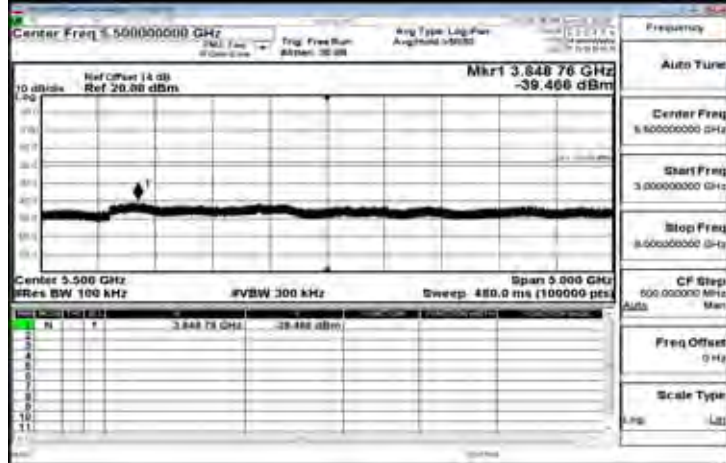
30M-3GHz Spurious Emission Test Data CH-High 2467MHz



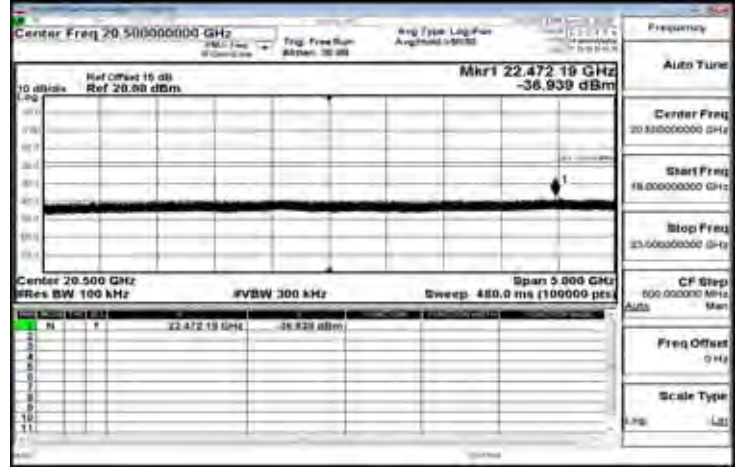
13G-18GHz Spurious Emission Test Data CH-High



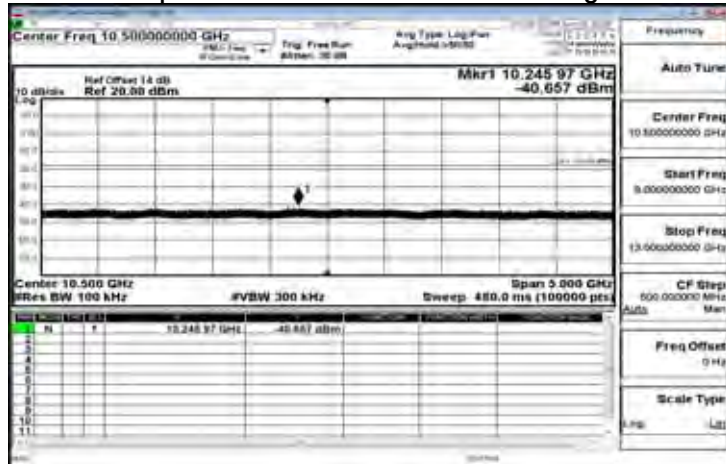
3G-8GHz Spurious Emission Test Data CH-High



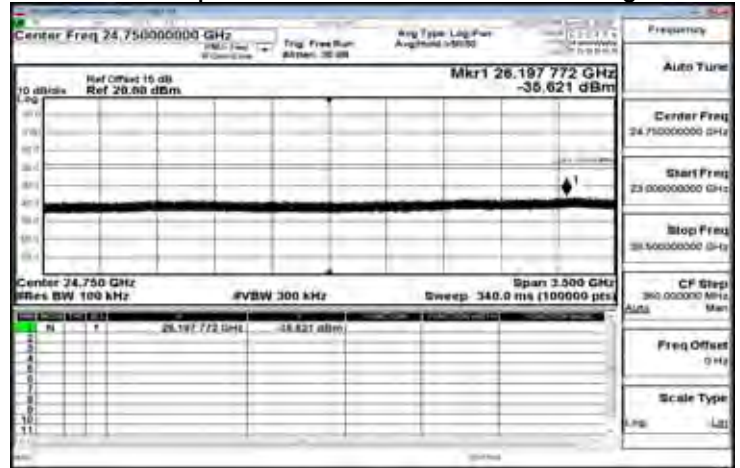
18G-23GHz Spurious Emission Test Data CH-High



8G-13GHz Spurious Emission Test Data CH-High



23G-26.5GHz Spurious Emission Test Data CH-High

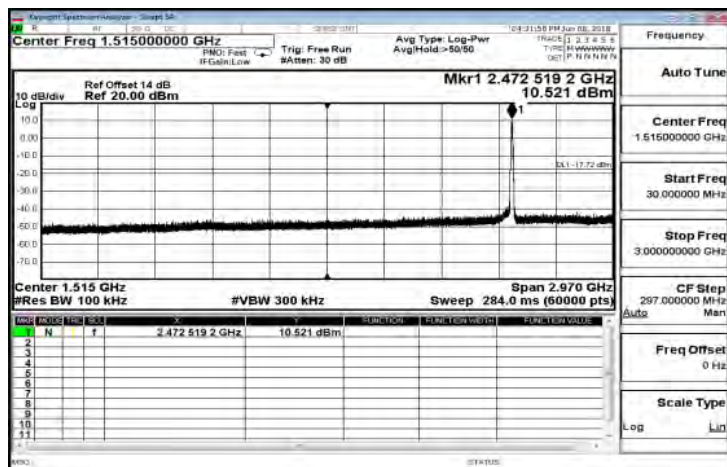


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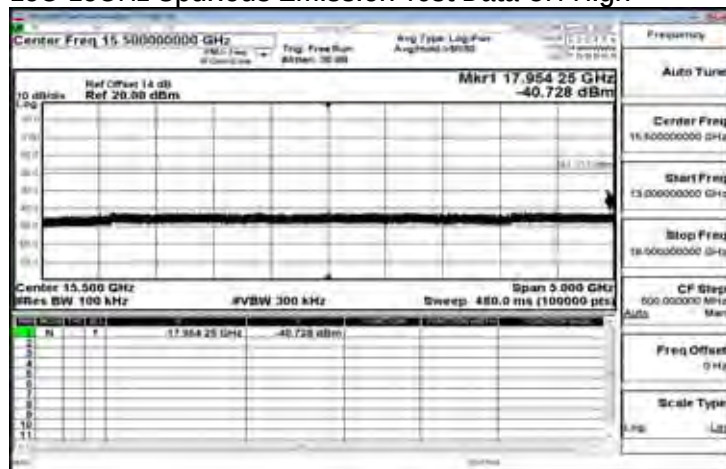
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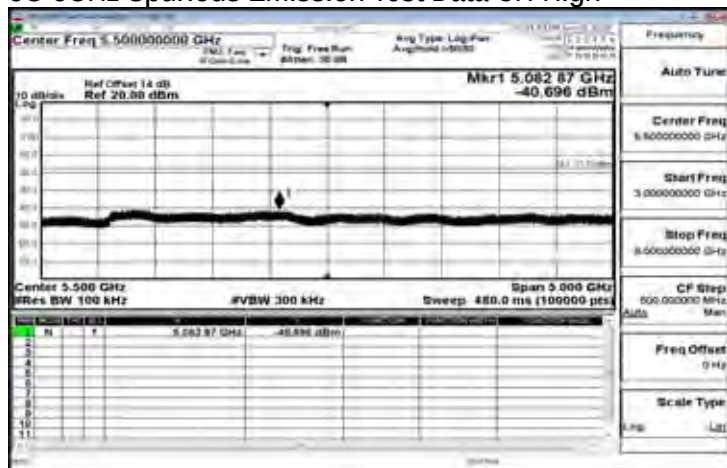
30M-3GHz Spurious Emission Test Data CH-High 2472MHz



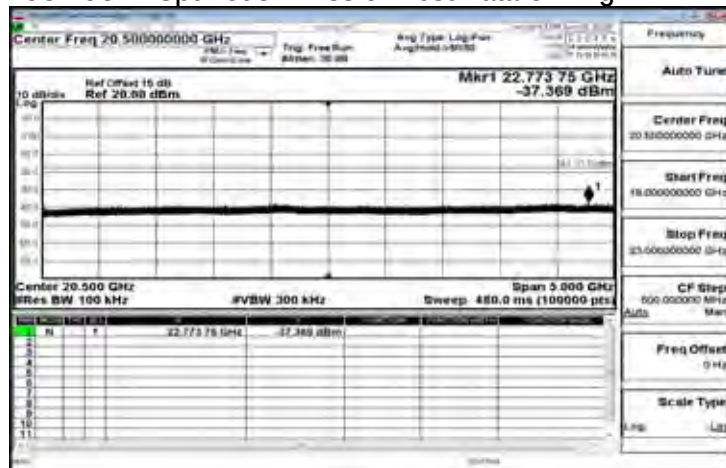
13G-18GHz Spurious Emission Test Data CH-High



3G-8GHz Spurious Emission Test Data CH-High



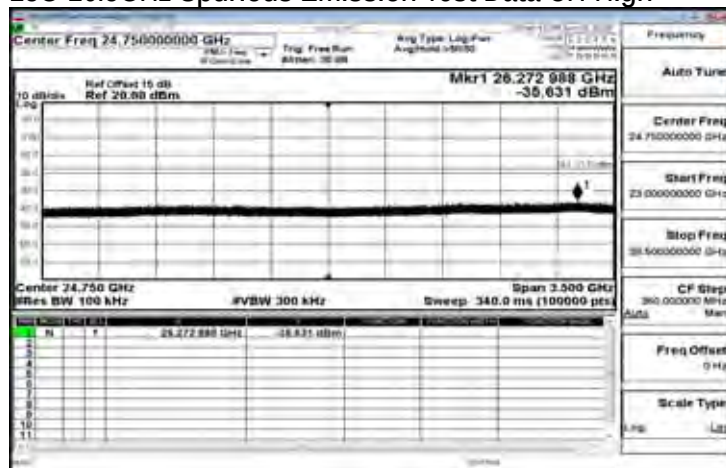
18G-23GHz Spurious Emission Test Data CH-High



8G-13GHz Spurious Emission Test Data CH-High



23G-26.5GHz Spurious Emission Test Data CH-High



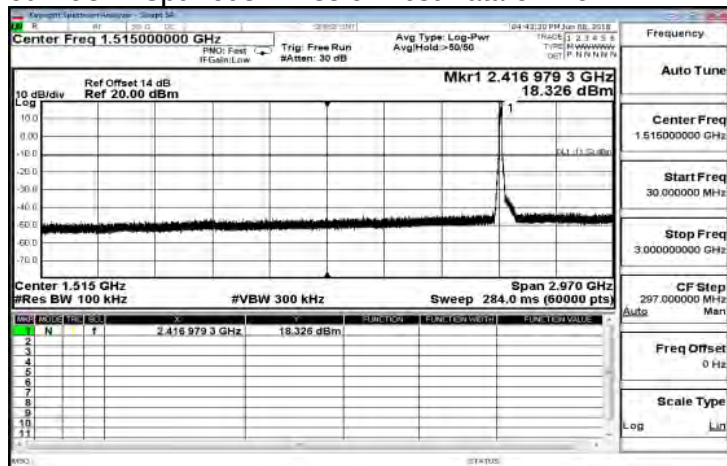
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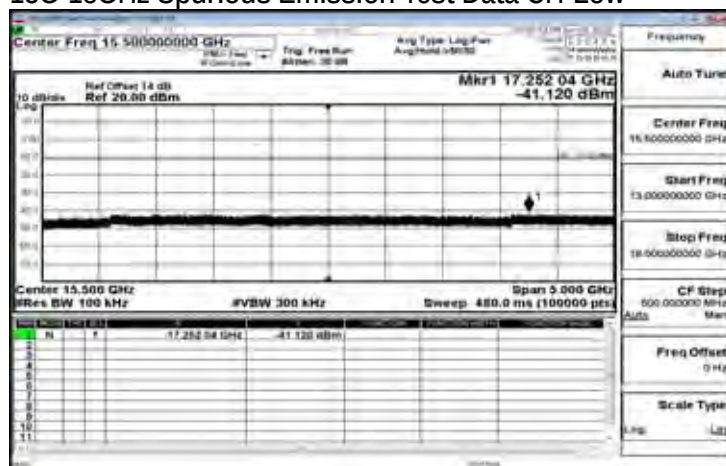
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802.11g

30M-3GHz Spurious Emission Test Data CH-Low



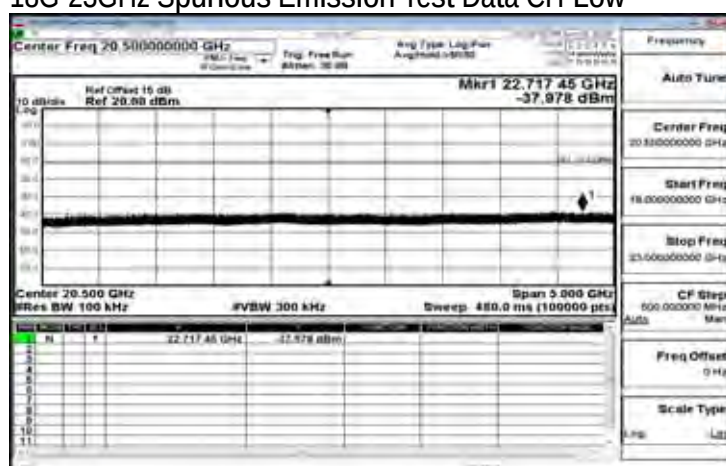
13G-18GHz Spurious Emission Test Data CH-Low



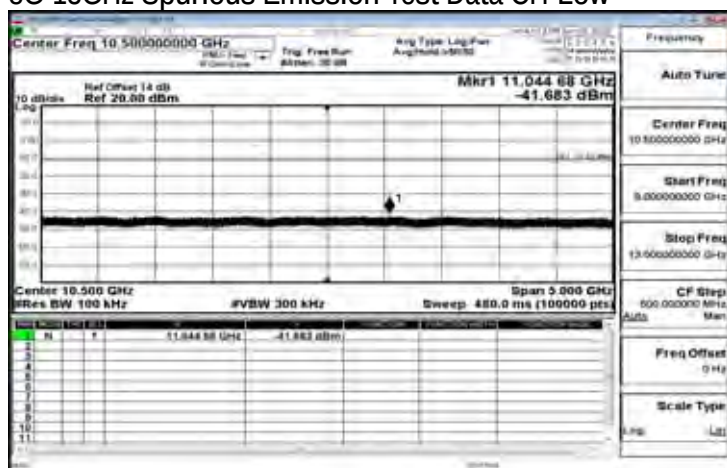
3G-8GHz Spurious Emission Test Data CH-Low



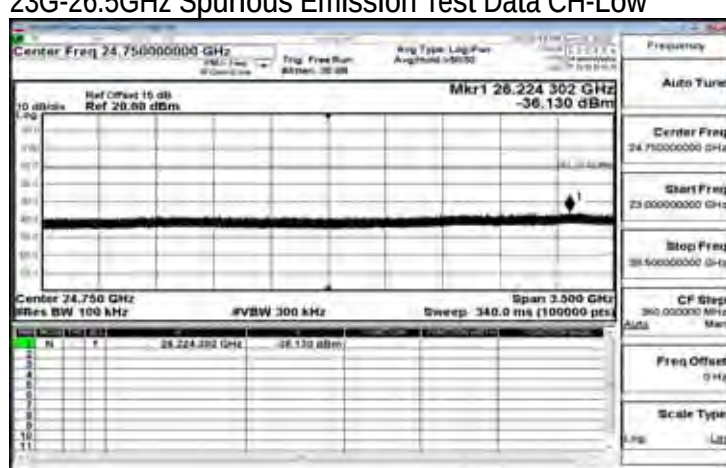
18G-23GHz Spurious Emission Test Data CH-Low



8G-13GHz Spurious Emission Test Data CH-Low



23G-26.5GHz Spurious Emission Test Data CH-Low

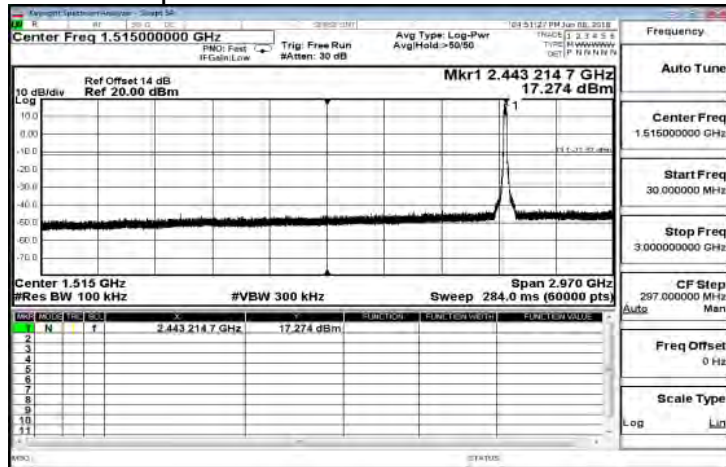


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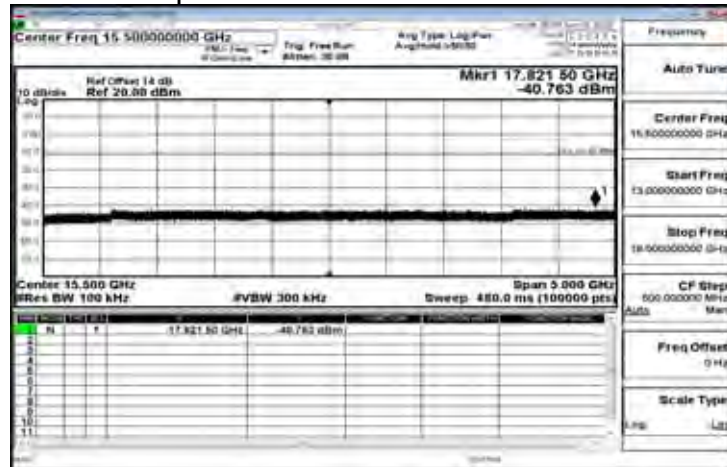
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30M-3GHz Spurious Emission Test Data CH-Mid



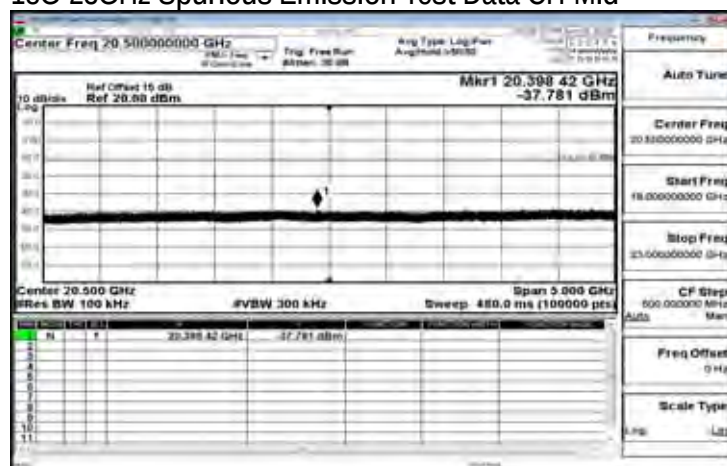
13G-18GHz Spurious Emission Test Data CH-Mid



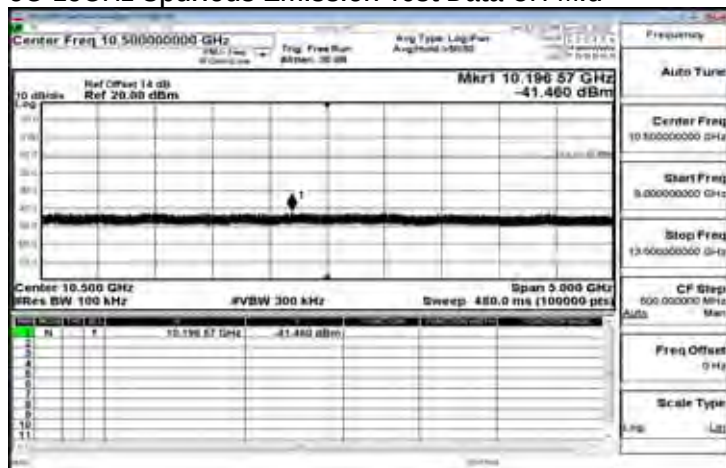
3G-8GHz Spurious Emission Test Data CH-Mid



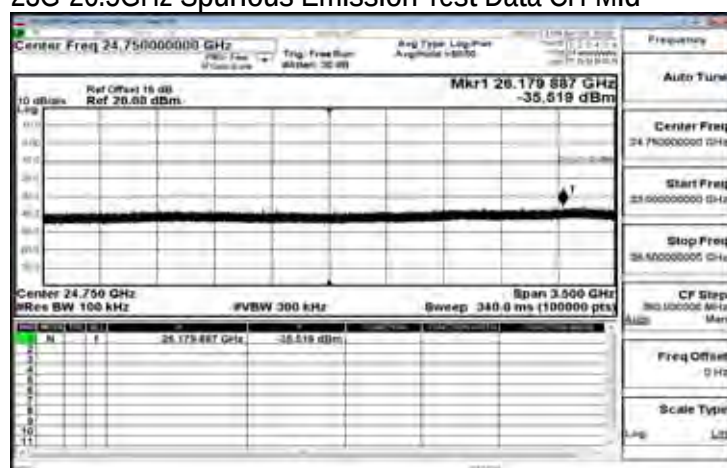
18G-23GHz Spurious Emission Test Data CH-Mid



8G-13GHz Spurious Emission Test Data CH-Mid



23G-26.5GHz Spurious Emission Test Data CH-Mid



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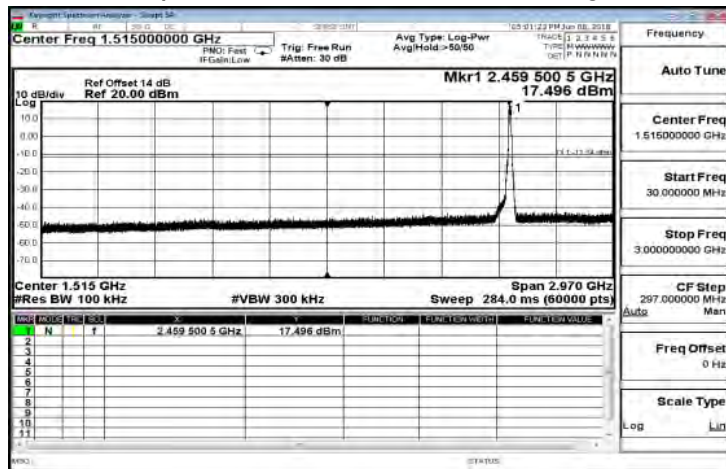
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f (886-2) 2298-0488

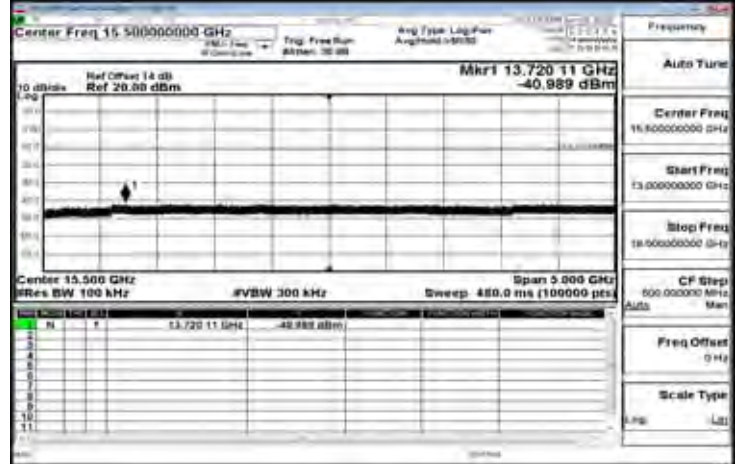
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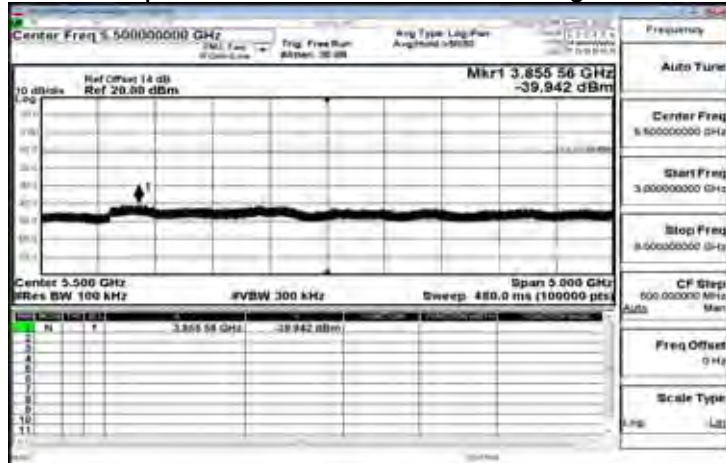
30M-3GHz Spurious Emission Test Data CH-High



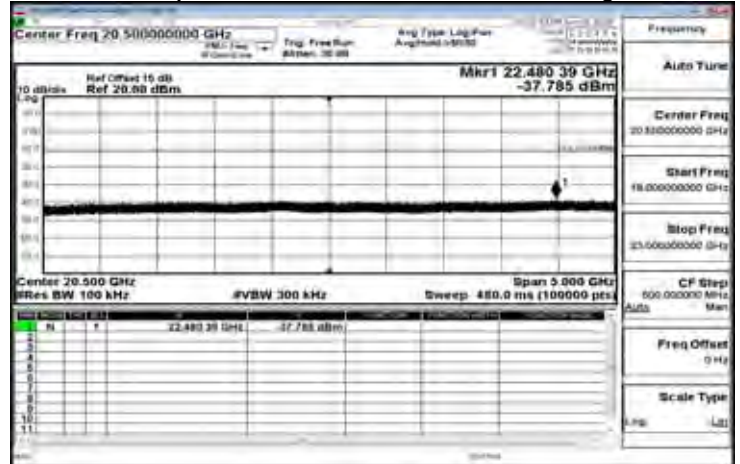
13G-18GHz Spurious Emission Test Data CH-High



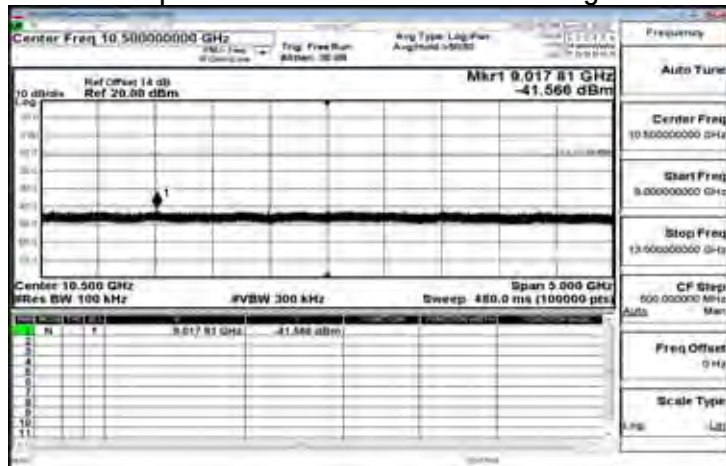
3G-8GHz Spurious Emission Test Data CH-High



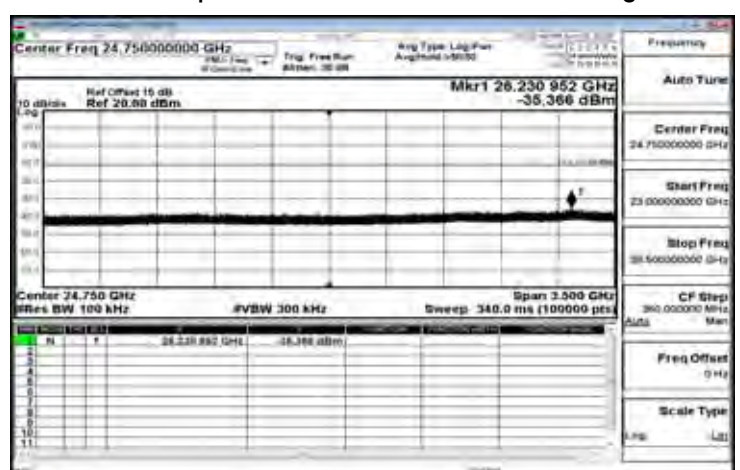
18G-23GHz Spurious Emission Test Data CH-High



8G-13GHz Spurious Emission Test Data CH-High



23G-26.5GHz Spurious Emission Test Data CH-High

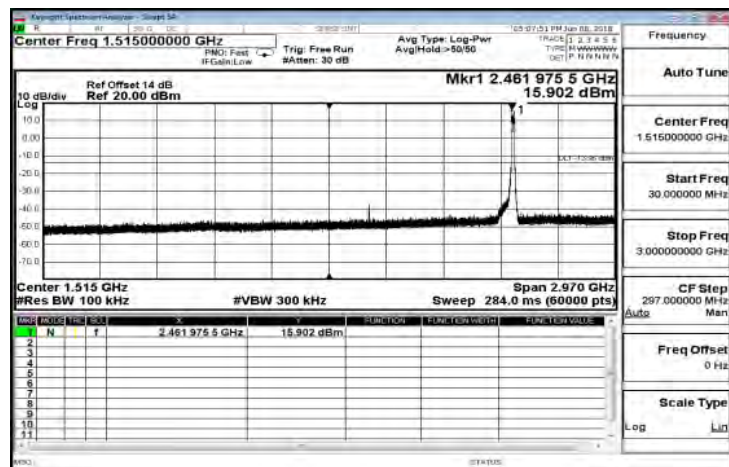


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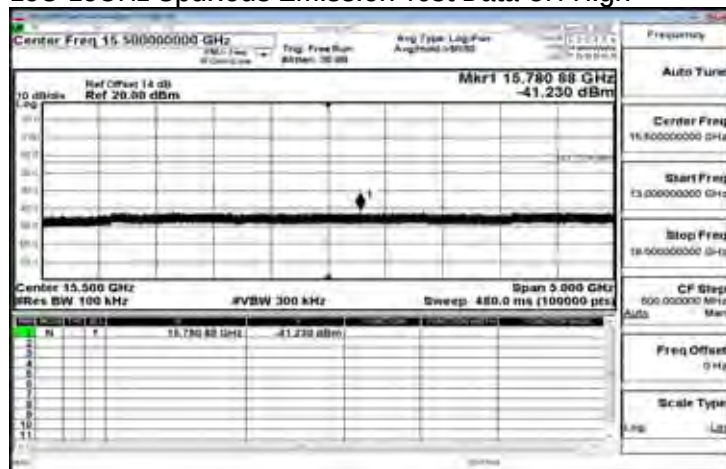
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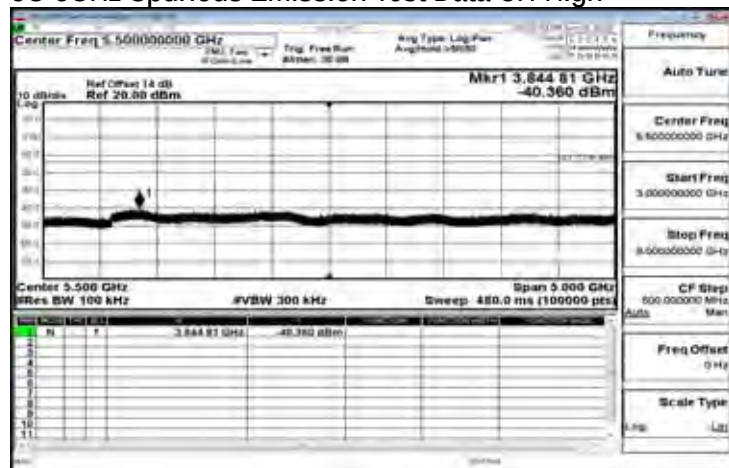
30M-3GHz Spurious Emission Test Data CH-High 2467MHz



13G-18GHz Spurious Emission Test Data CH-High



3G-8GHz Spurious Emission Test Data CH-High



18G-23GHz Spurious Emission Test Data CH-High



8G-13GHz Spurious Emission Test Data CH-High



23G-26.5GHz Spurious Emission Test Data CH-High

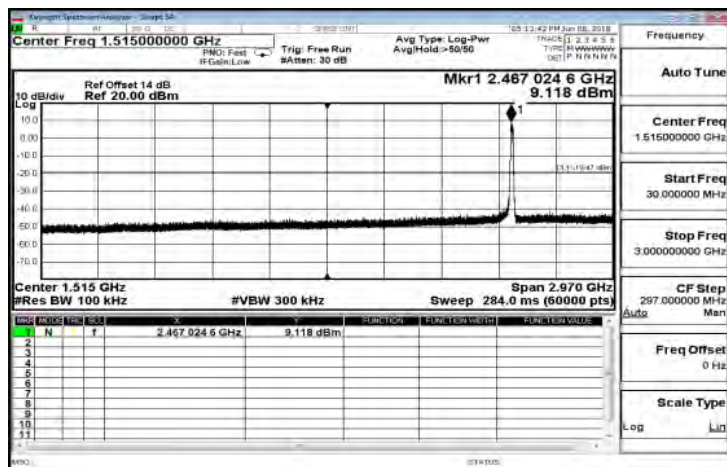


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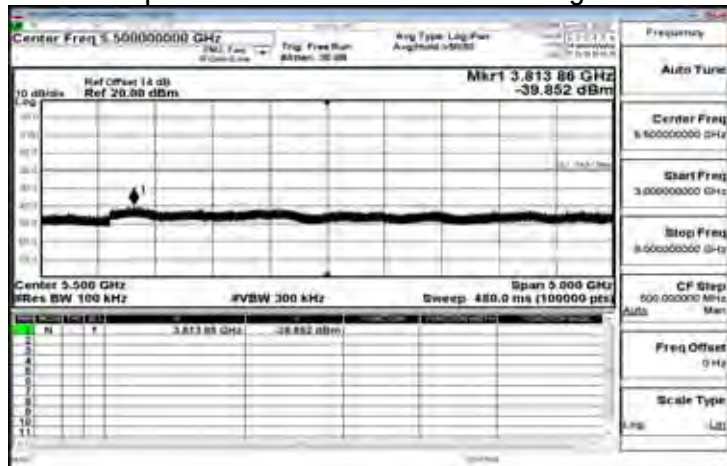
30M-3GHz Spurious Emission Test Data CH-High 2472MHz



13G-18GHz Spurious Emission Test Data CH-High



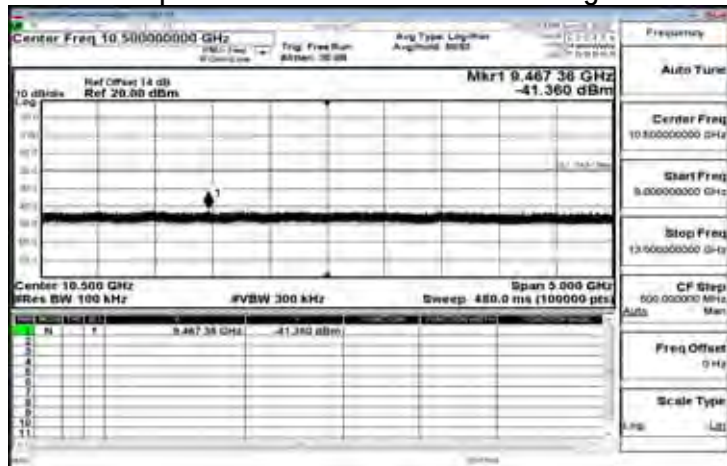
3G-8GHz Spurious Emission Test Data CH-High



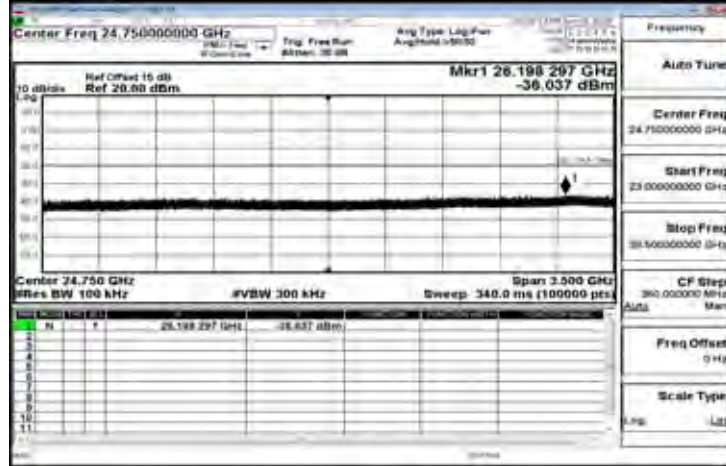
18G-23GHz Spurious Emission Test Data CH-High



8G-13GHz Spurious Emission Test Data CH-High



23G-26.5GHz Spurious Emission Test Data CH-High



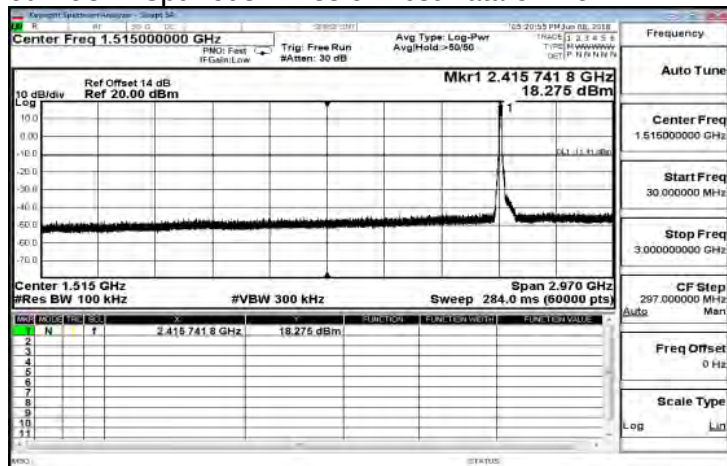
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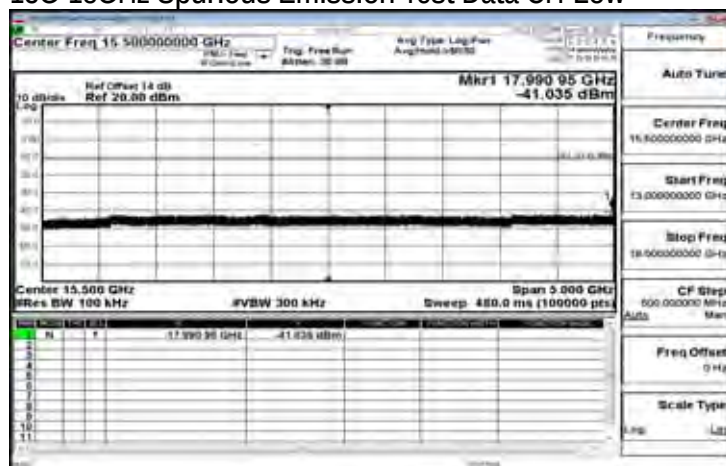
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802.11n_HT20

30M-3GHz Spurious Emission Test Data CH-Low



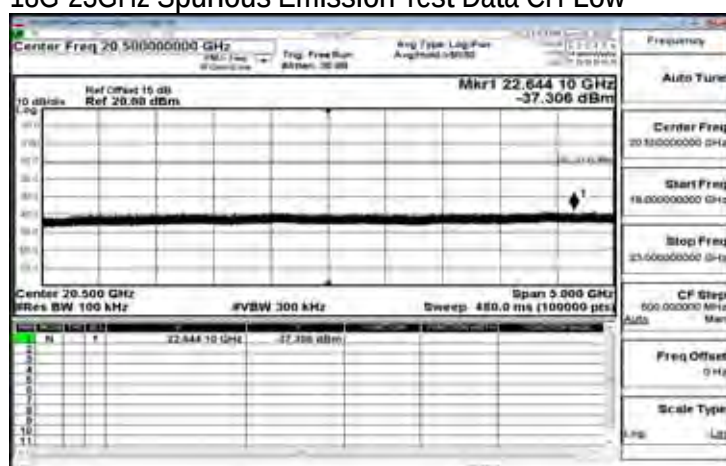
13G-18GHz Spurious Emission Test Data CH-Low



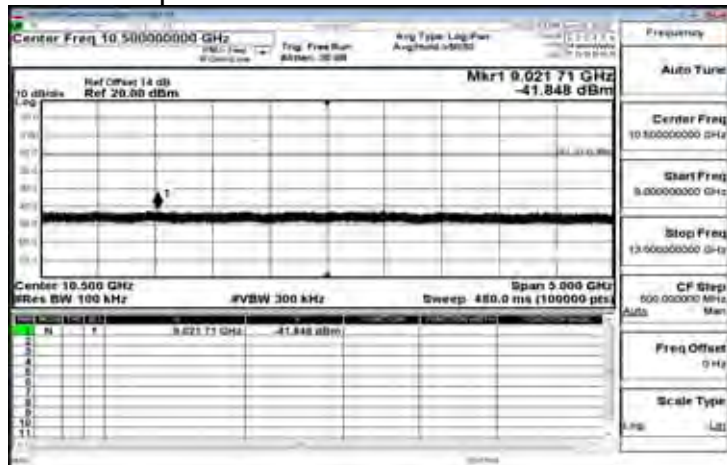
3G-8GHz Spurious Emission Test Data CH-Low



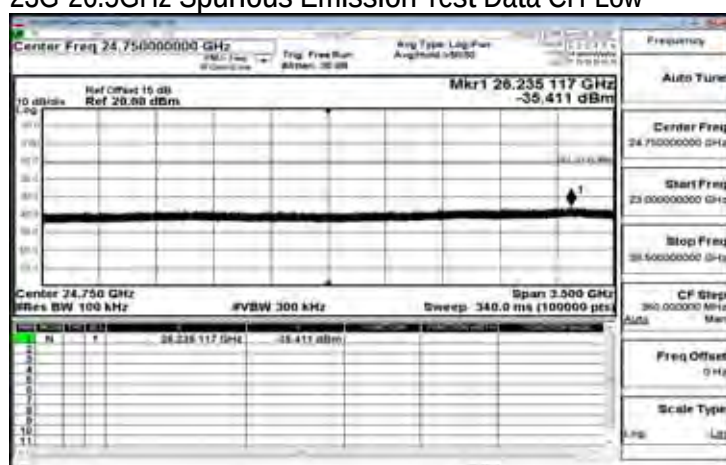
18G-23GHz Spurious Emission Test Data CH-Low



8G-13GHz Spurious Emission Test Data CH-Low



23G-26.5GHz Spurious Emission Test Data CH-Low

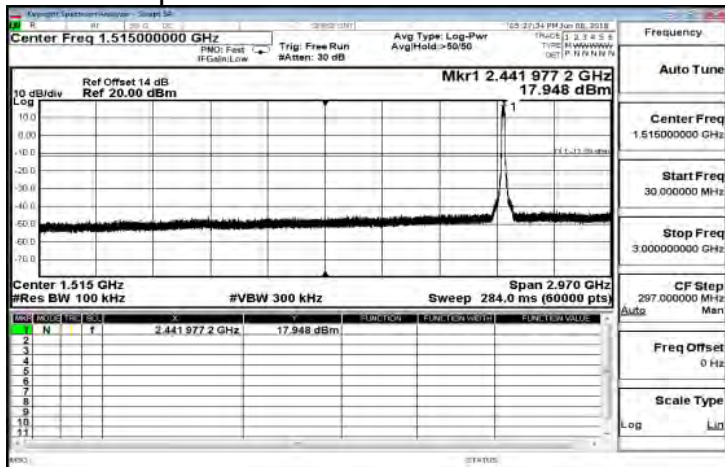


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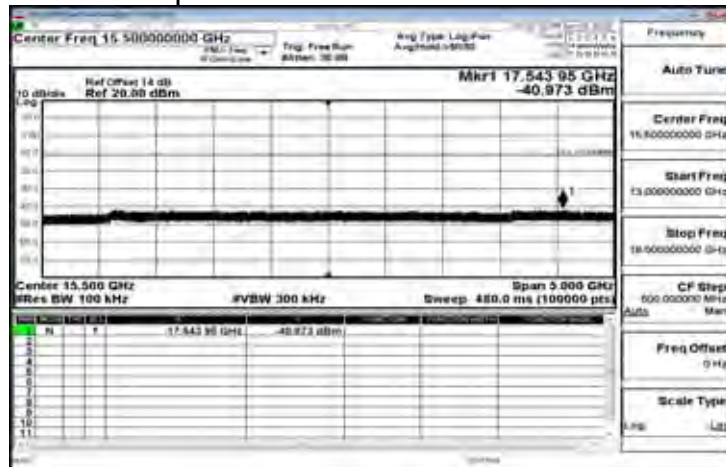
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30M-3GHz Spurious Emission Test Data CH-Mid



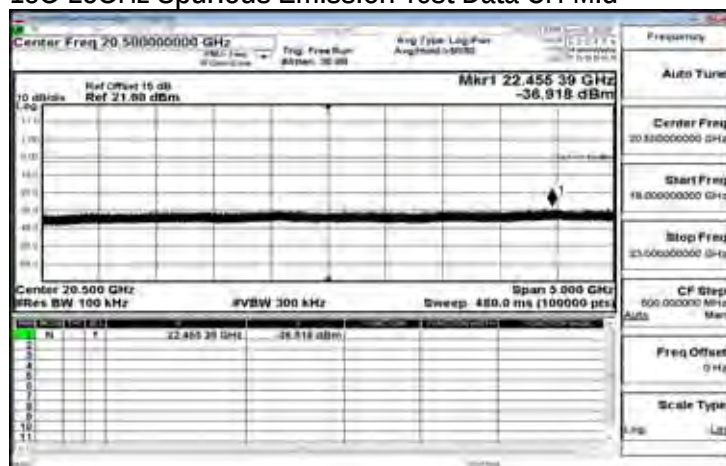
13G-18GHz Spurious Emission Test Data CH-Mid



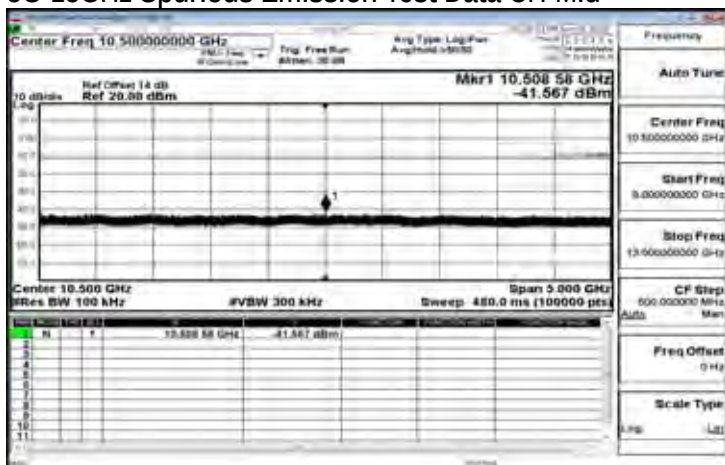
3G-8GHz Spurious Emission Test Data CH-Mid



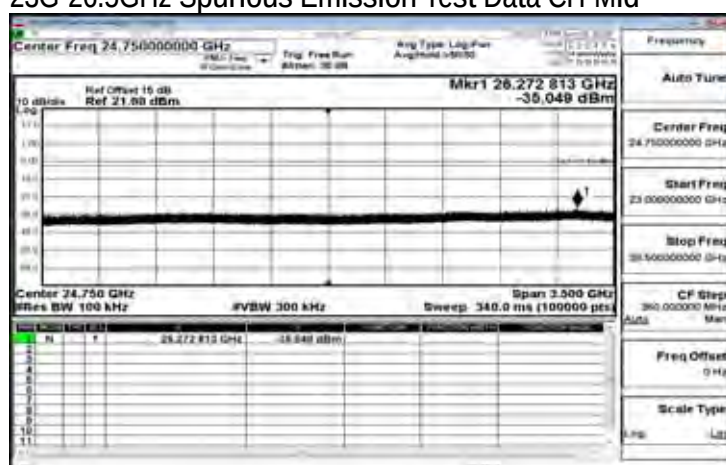
18G-23GHz Spurious Emission Test Data CH-Mid



8G-13GHz Spurious Emission Test Data CH-Mid



23G-26.5GHz Spurious Emission Test Data CH-Mid

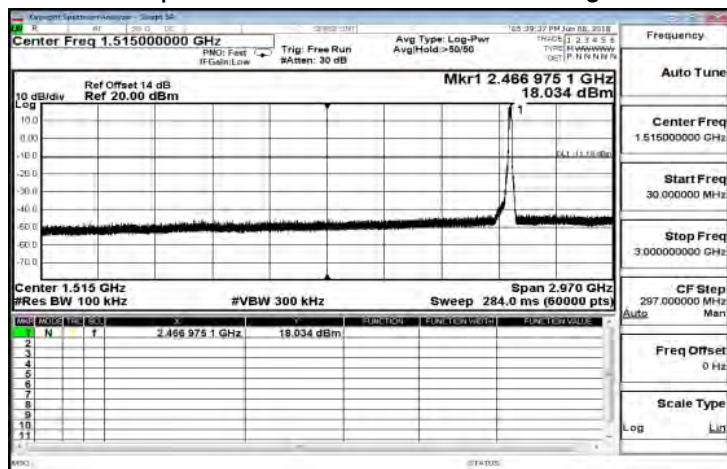


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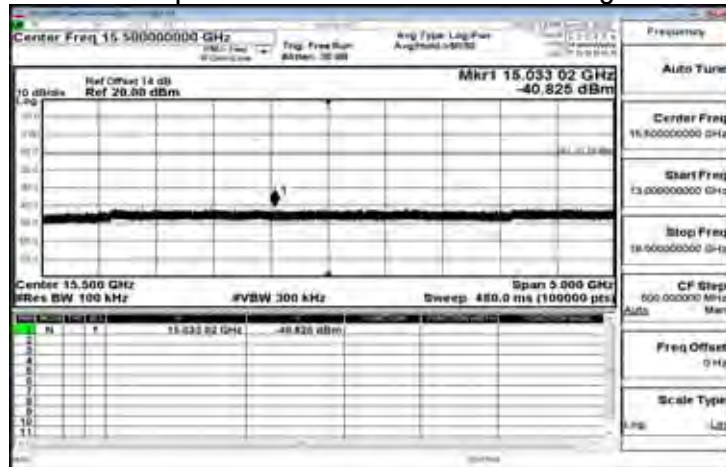
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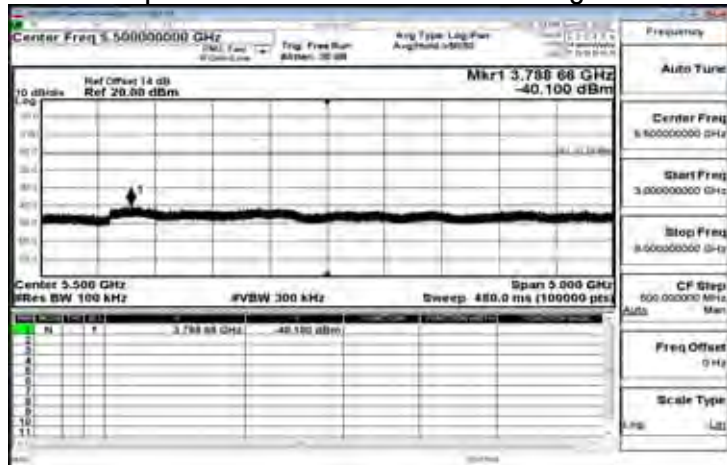
30M-3GHz Spurious Emission Test Data CH-High



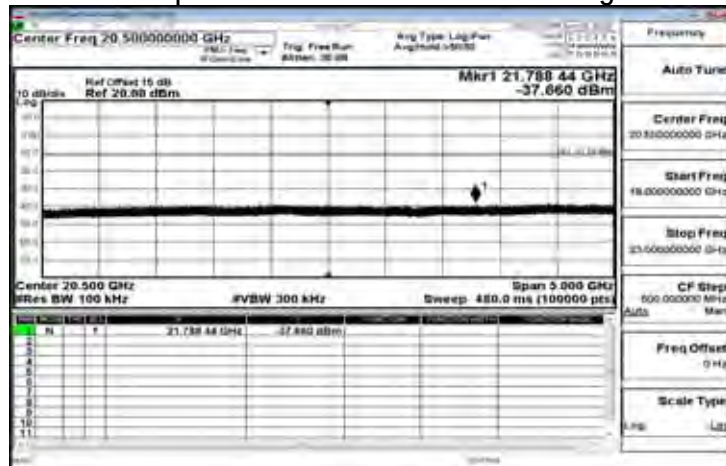
13G-18GHz Spurious Emission Test Data CH-High



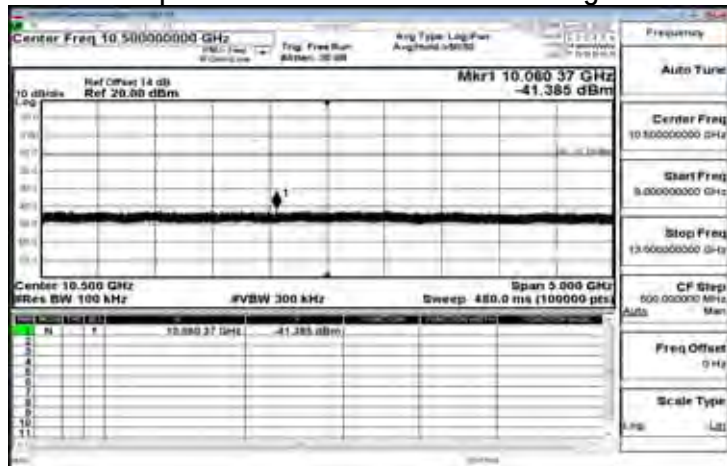
3G-8GHz Spurious Emission Test Data CH-High



18G-23GHz Spurious Emission Test Data CH-High



8G-13GHz Spurious Emission Test Data CH-High



23G-26.5GHz Spurious Emission Test Data CH-High



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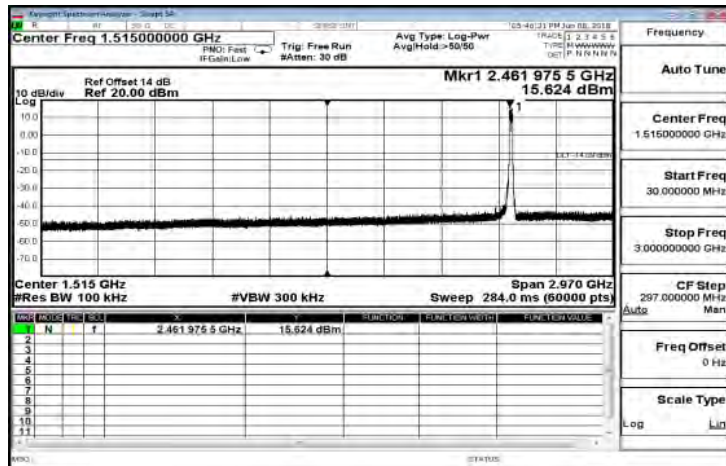
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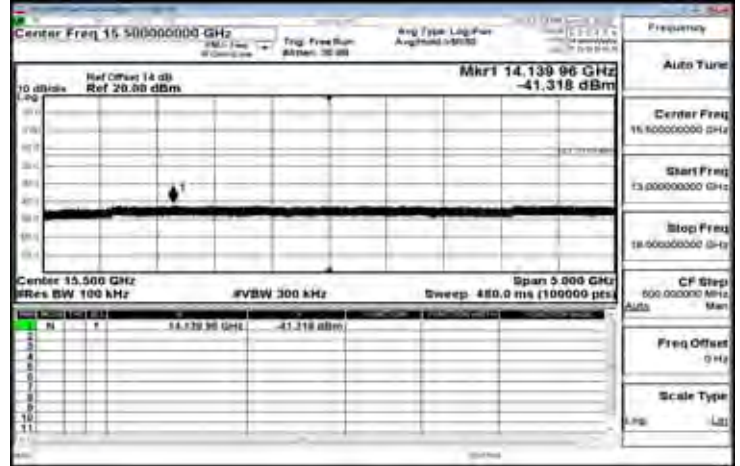
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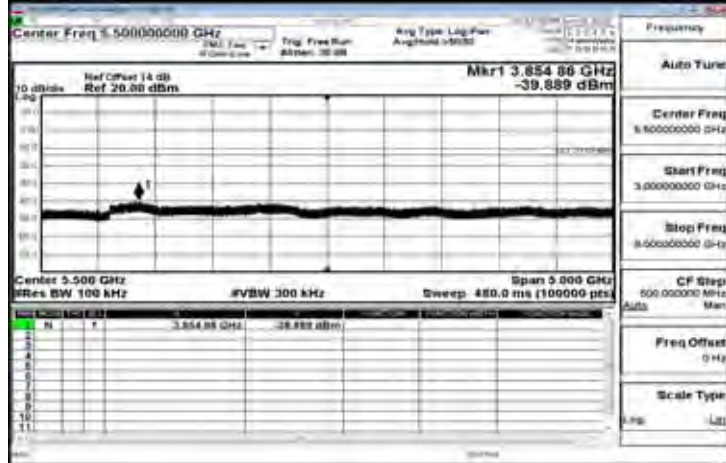
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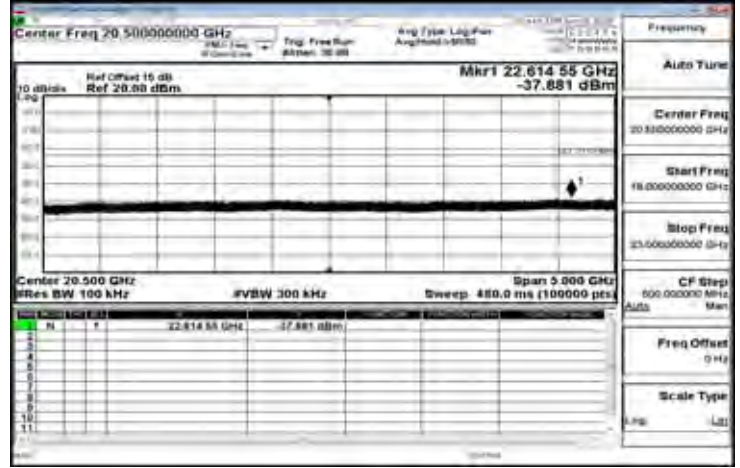
13G-18GHz Spurious Emission Test Data CH-High



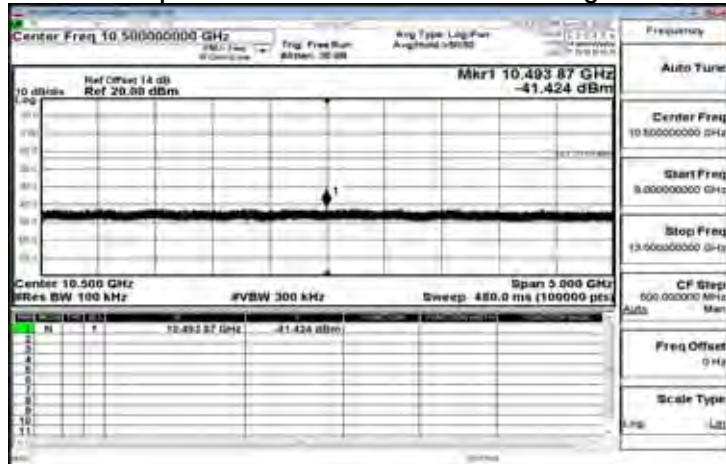
3G-8GHz Spurious Emission Test Data CH-High



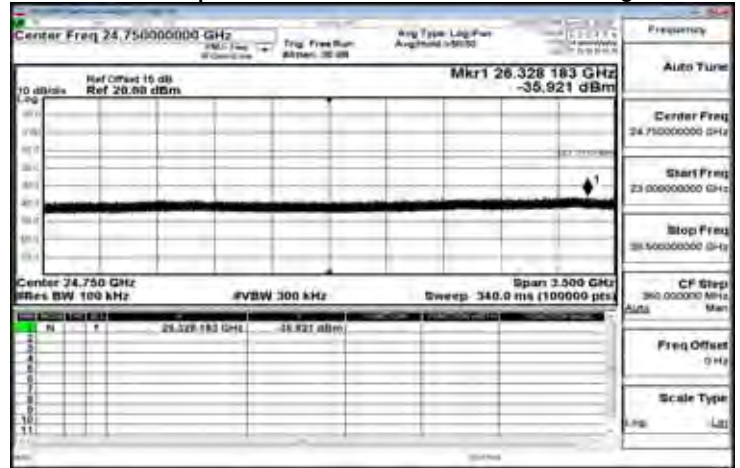
18G-23GHz Spurious Emission Test Data CH-High



8G-13GHz Spurious Emission Test Data CH-High



23G-26.5GHz Spurious Emission Test Data CH-High

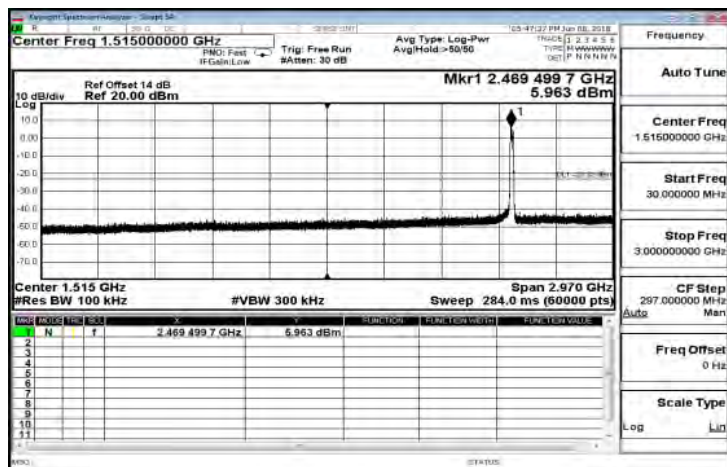


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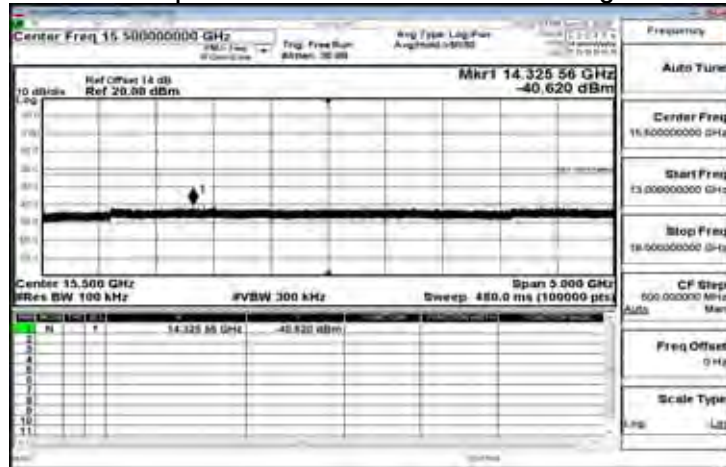
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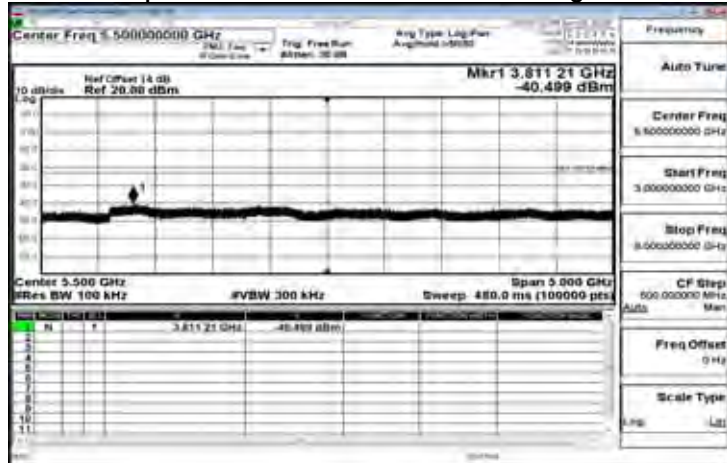
30M-3GHz Spurious Emission Test Data CH-High 2472MHz



13G-18GHz Spurious Emission Test Data CH-High



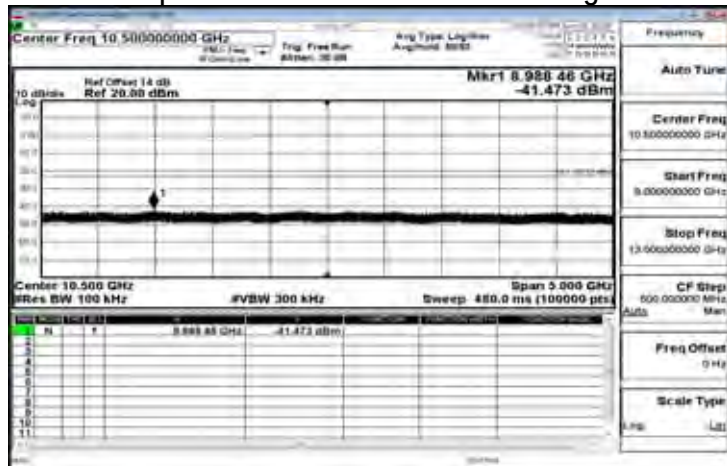
3G-8GHz Spurious Emission Test Data CH-High



18G-23GHz Spurious Emission Test Data CH-High



8G-13GHz Spurious Emission Test Data CH-High



23G-26.5GHz Spurious Emission Test Data CH-High



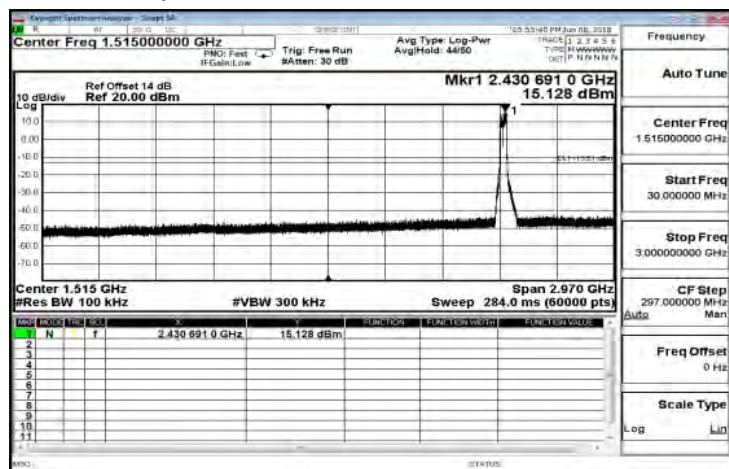
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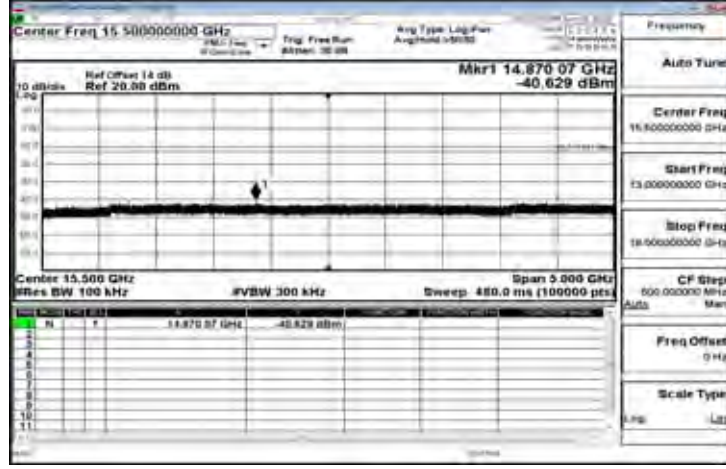
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802.11n_HT40

30M-3GHz Spurious Emission Test Data CH-Low



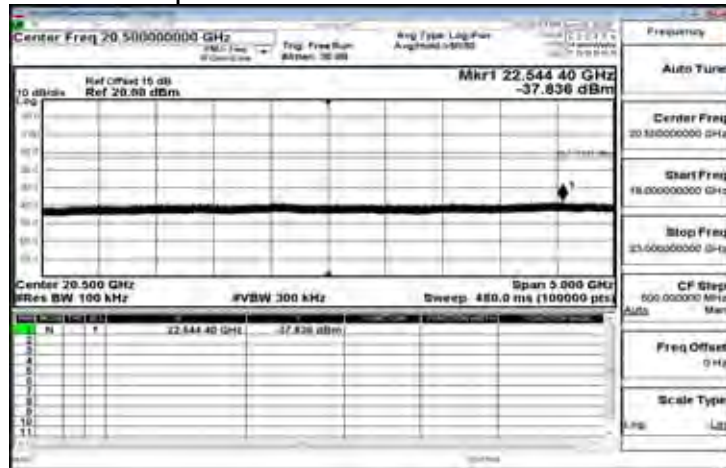
13G-18GHz Spurious Emission Test Data CH-Low



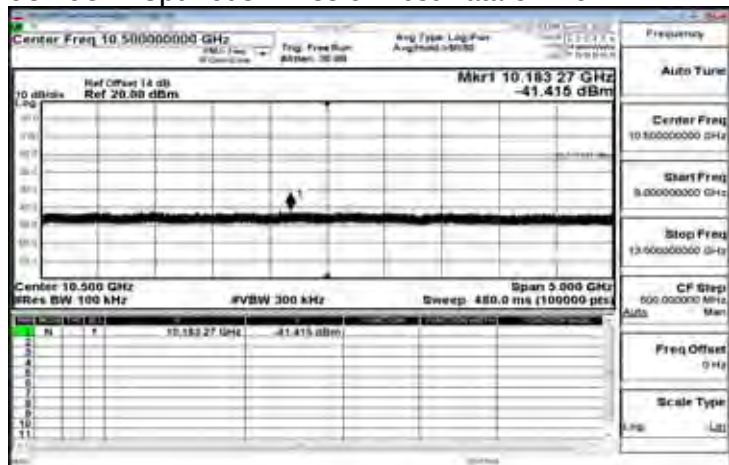
3G-8GHz Spurious Emission Test Data CH-Low



18G-23GHz Spurious Emission Test Data CH-Low



8G-13GHz Spurious Emission Test Data CH-Low



23G-26.5GHz Spurious Emission Test Data CH-Low

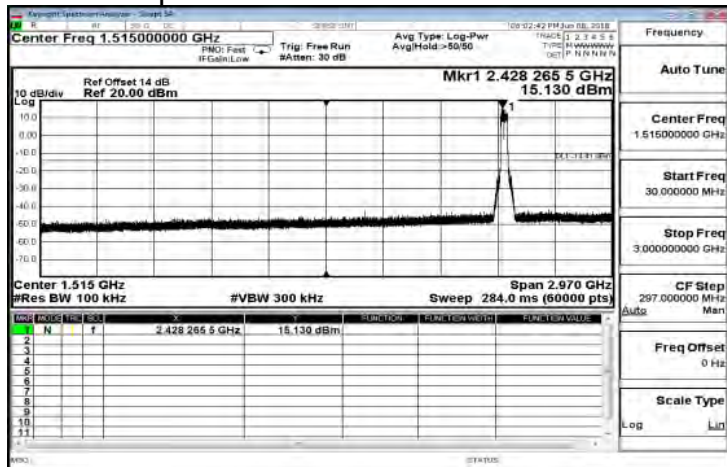


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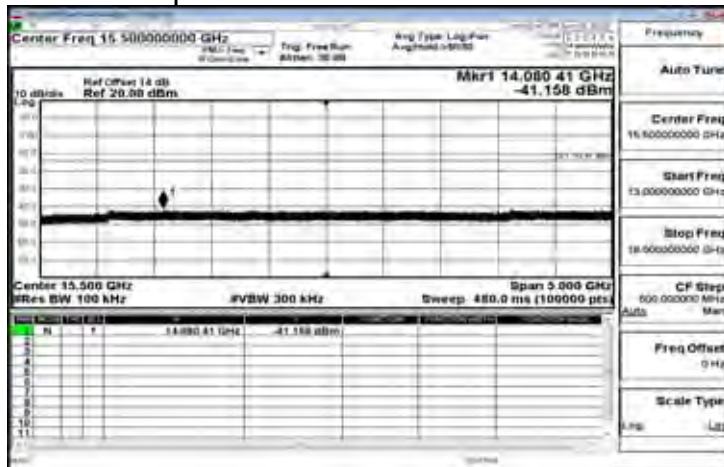
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30M-3GHz Spurious Emission Test Data CH-Mid



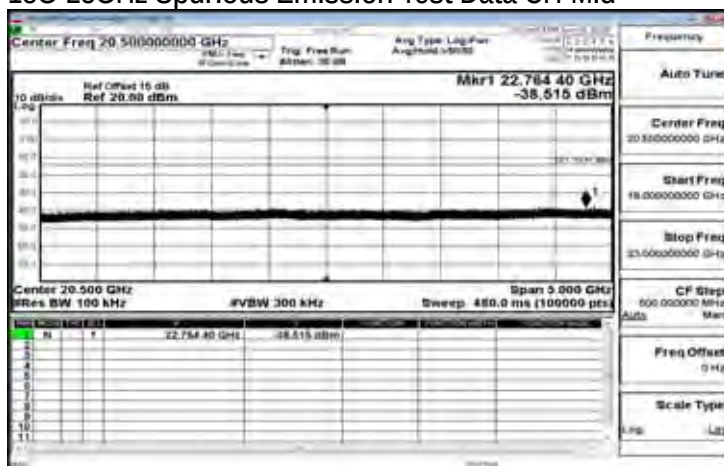
13G-18GHz Spurious Emission Test Data CH-Mid



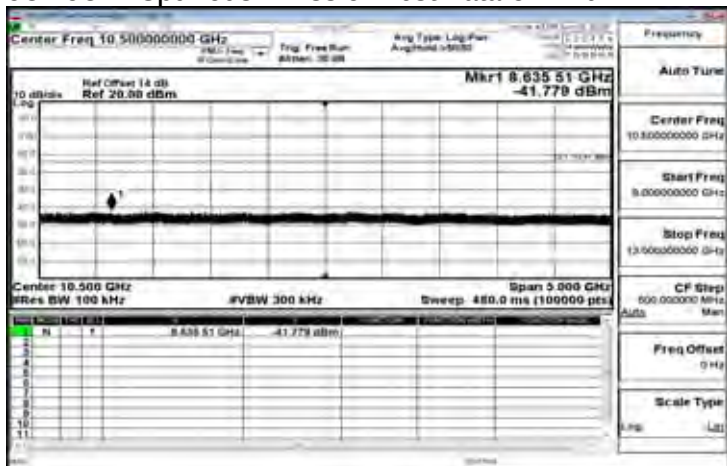
3G-8GHz Spurious Emission Test Data CH-Mid



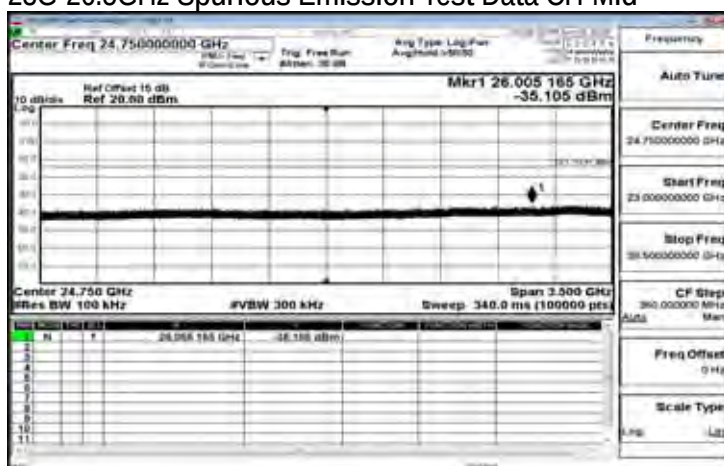
18G-23GHz Spurious Emission Test Data CH-Mid



8G-13GHz Spurious Emission Test Data CH-Mid



23G-26.5GHz Spurious Emission Test Data CH-Mid

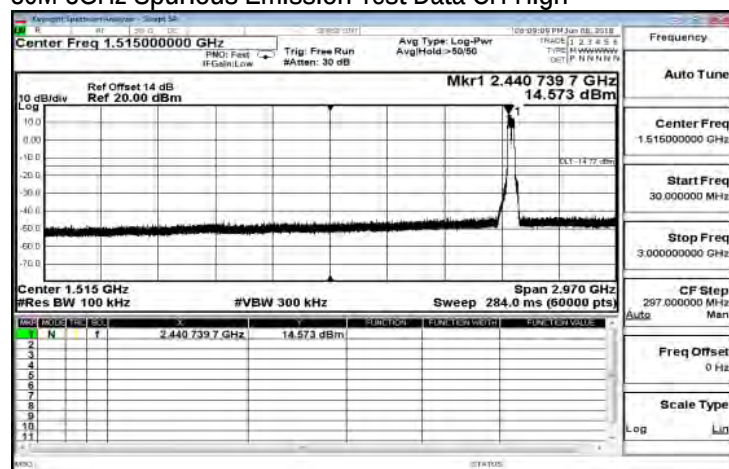


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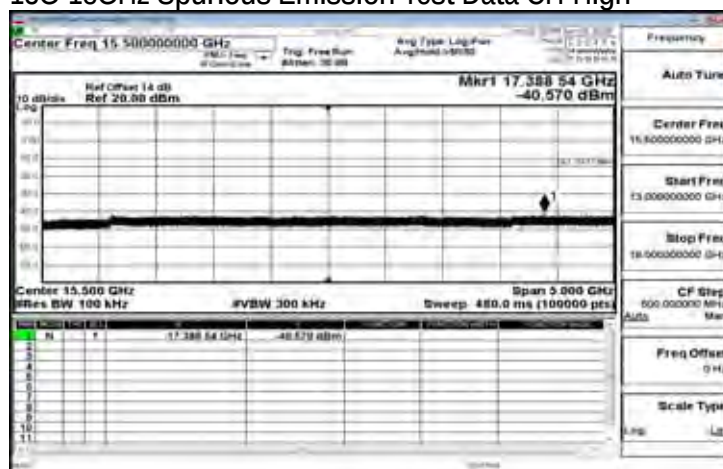
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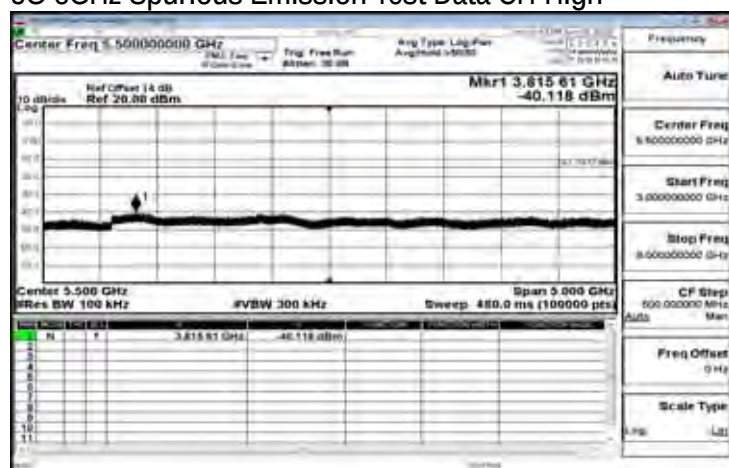
30M-3GHz Spurious Emission Test Data CH-High



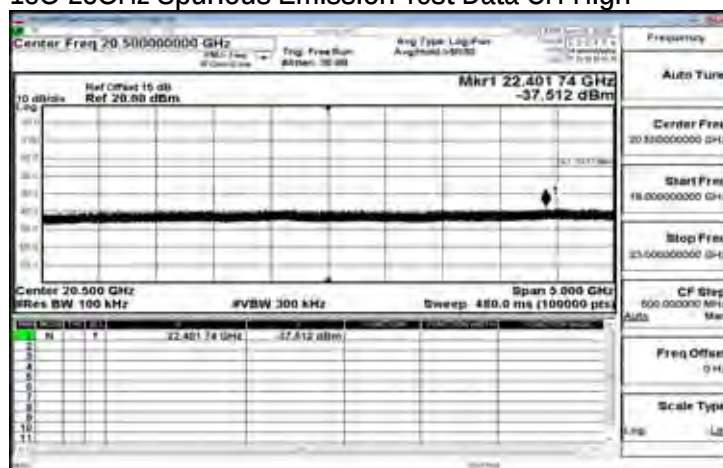
13G-18GHz Spurious Emission Test Data CH-High



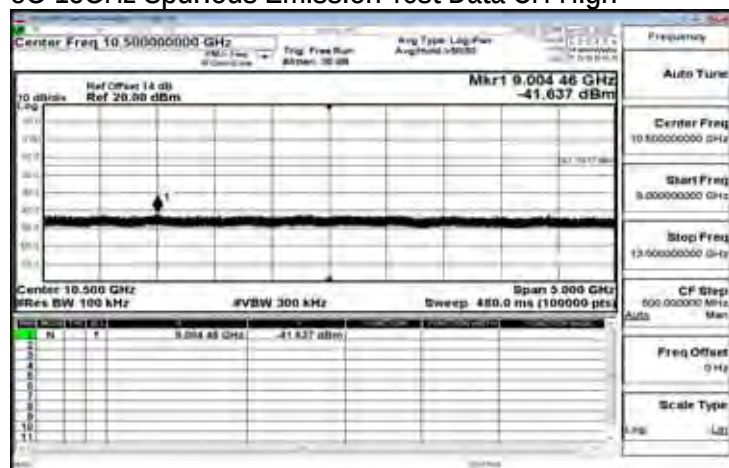
3G-8GHz Spurious Emission Test Data CH-High



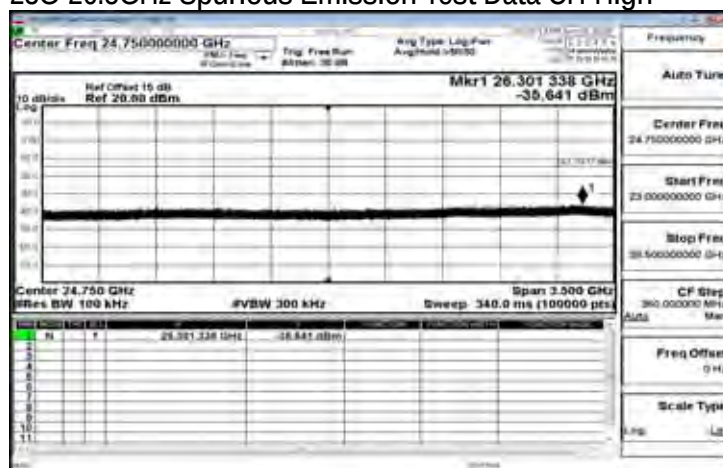
18G-23GHz Spurious Emission Test Data CH-High



8G-13GHz Spurious Emission Test Data CH-High



23G-26.5GHz Spurious Emission Test Data CH-High

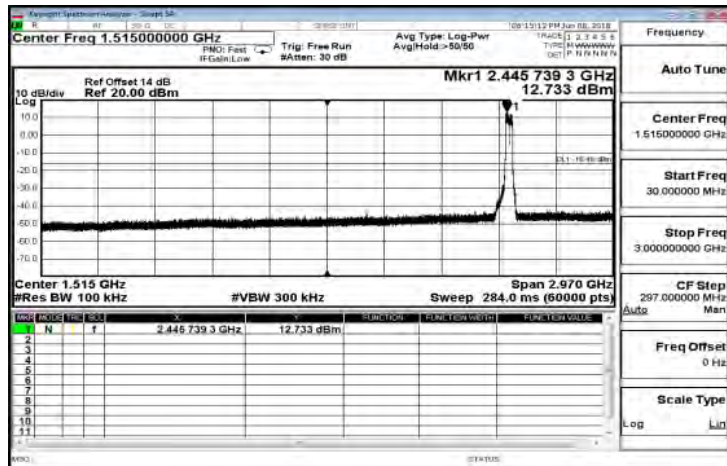


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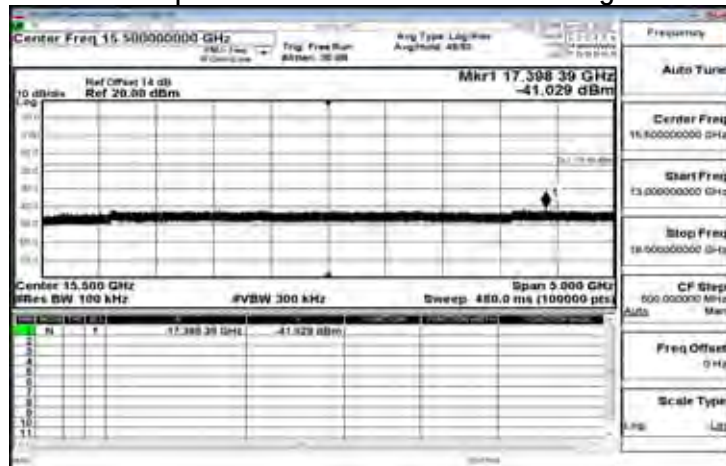
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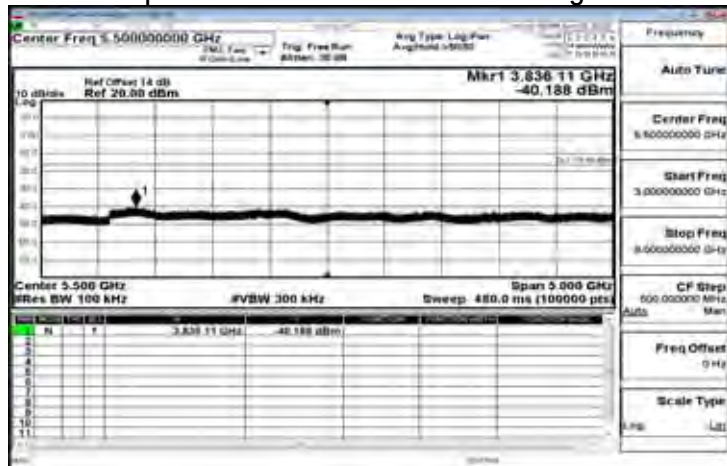
30M-3GHz Spurious Emission Test Data CH-High 2457MHz



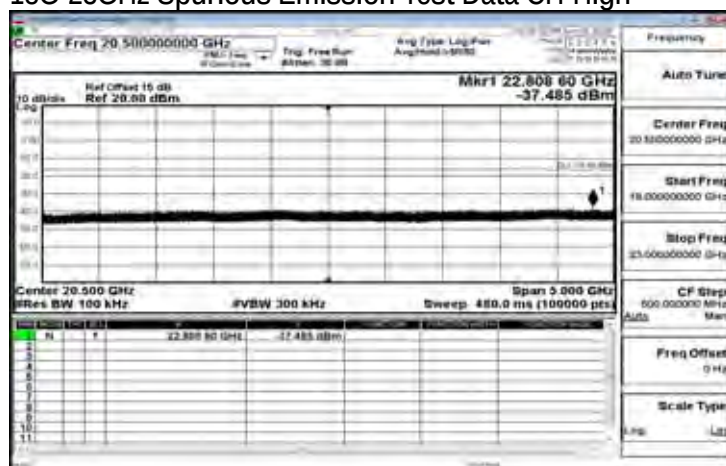
13G-18GHz Spurious Emission Test Data CH-High



3G-8GHz Spurious Emission Test Data CH-High



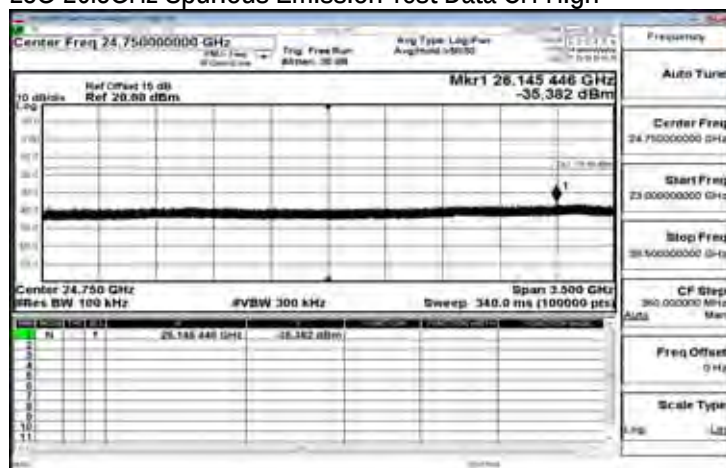
18G-23GHz Spurious Emission Test Data CH-High



8G-13GHz Spurious Emission Test Data CH-High



23G-26.5GHz Spurious Emission Test Data CH-High

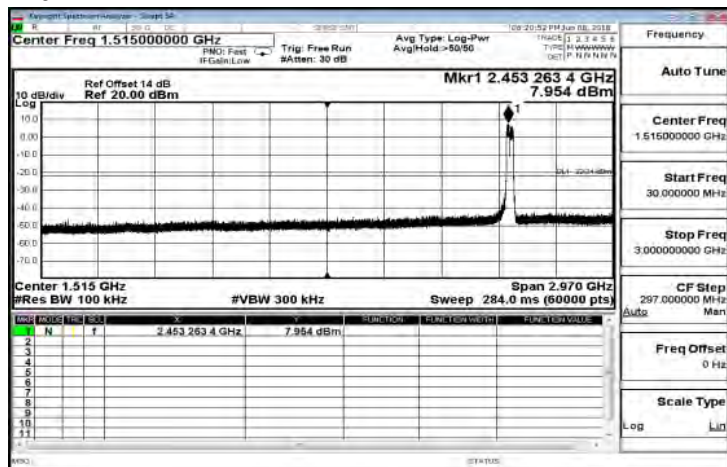


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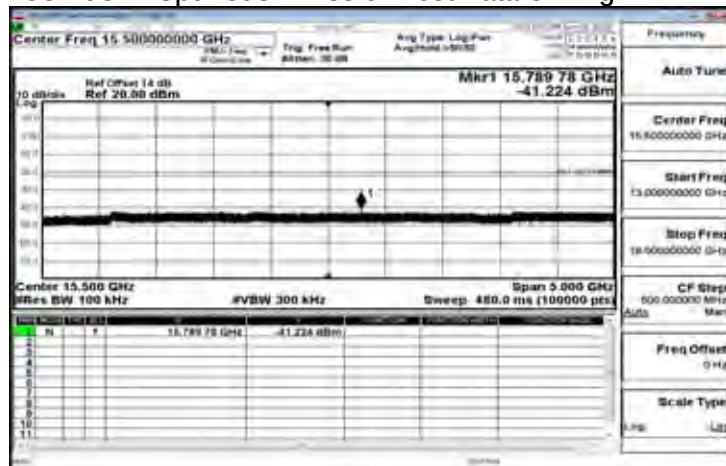
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30M-3GHz Spurious Emission Test Data CH-High 2462MHz



13G-18GHz Spurious Emission Test Data CH-High



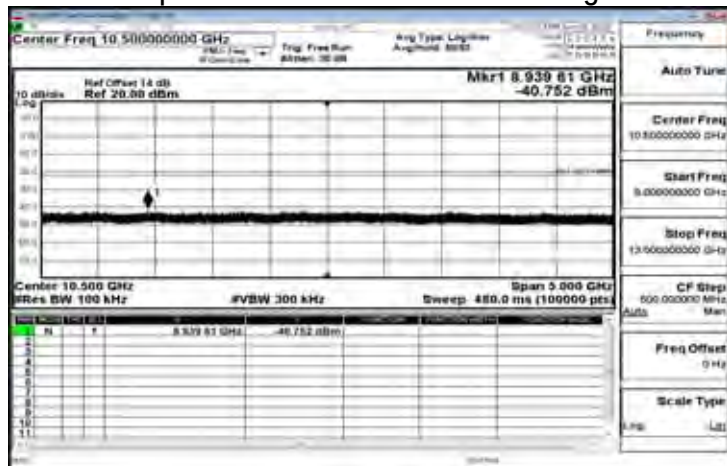
3G-8GHz Spurious Emission Test Data CH-High



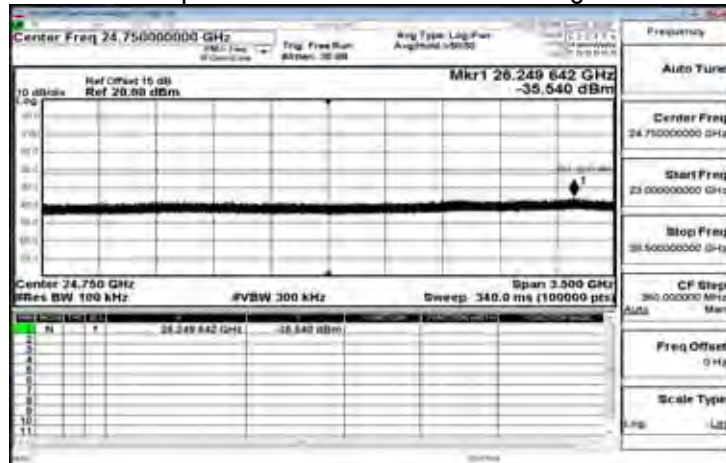
18G-23GHz Spurious Emission Test Data CH-High



8G-13GHz Spurious Emission Test Data CH-High



23G-26.5GHz 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 (μV/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	ESU 40	100363	04/18/2017	04/17/2018
Loop Antenna	ETS-Lindgren	6502	00143303	12/23/2017	12/22/2018
Broadband Antenna	TESEQ	CBL 6112D	35240	11/03/2017	11/02/2018
Horn Antenna	ETS-Lindgren	3117	00143272	12/15/2017	12/16/2018
Horn Antenna	Schwarzbeck	BBHA9170	185	08/01/2017	07/31/2018
Pre Amplifier	EMC Instruments	EMC330	980096	12/24/2017	12/23/2018
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/24/2017	12/23/2018
Pre Amplifier	R&S	SCU-18	10204	12/24/2017	12/23/2018
Pre Amplifier	R&S	SCU-26	100780	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/24/2017	12/23/2018
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/24/2017	12/23/2018
Attenuator	WOKEN	218FS-10	RF27	12/24/2017	12/23/2018
Site NSA	SGS	966 Chamber C	SAC-C	03/02/2018	03/01/2019
Site VSWR	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2017	05/03/2018
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.

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Site VSWR	SGS	966 Chamber C	SAC-C	03/02/2018	03/01/2019
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2018	05/03/2019

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

N.C.R refers to Not Calibrated Required.

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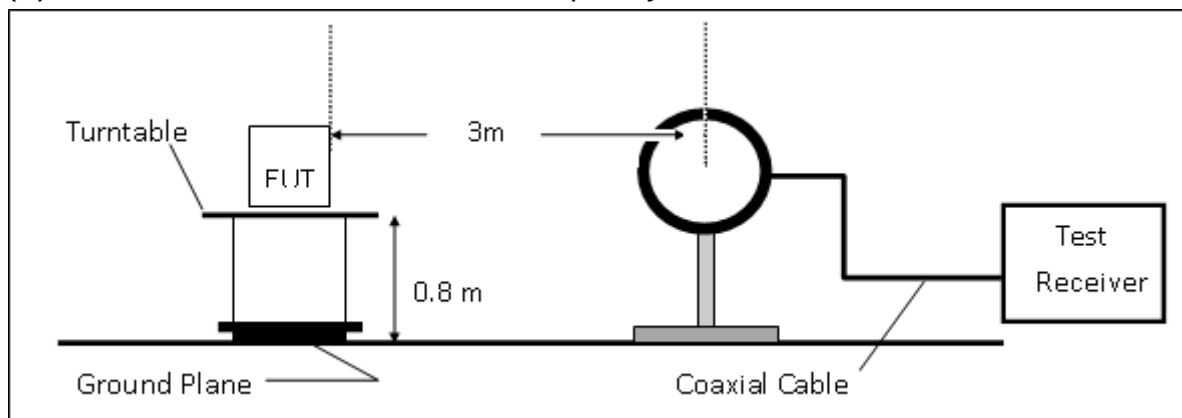
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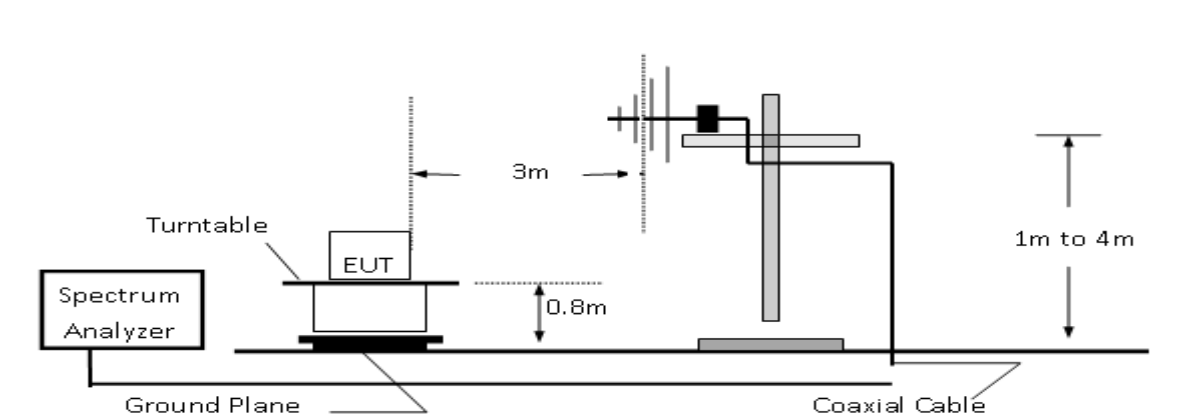
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11.3 Test SET-UP

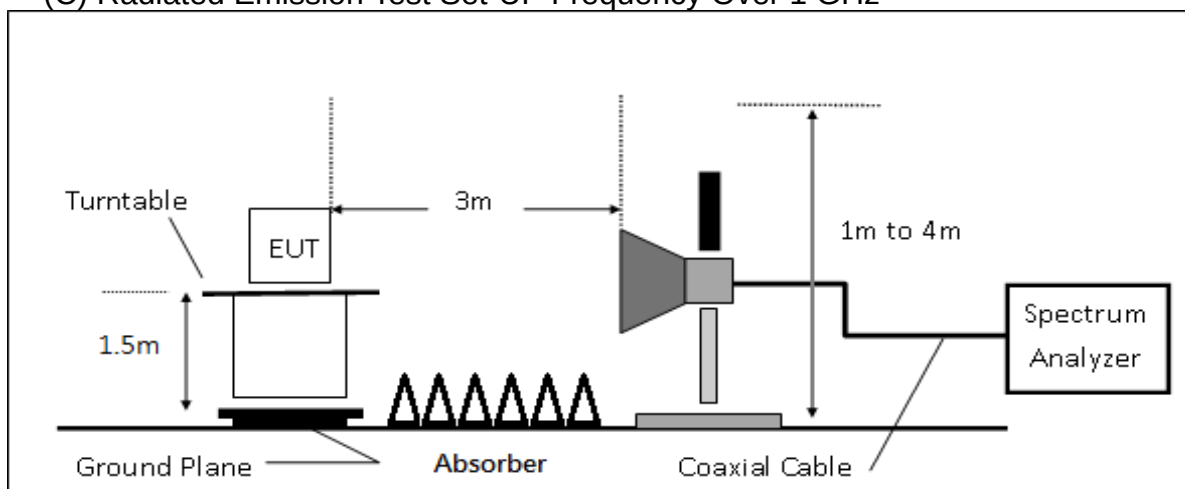
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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(dB/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

Radiated emission below 30MHz is measured in a 9m*9m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site. And there is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

After Pre-scanned 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: WLAN/BT coexistence cases were investigated and there are no new emissions to report.

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

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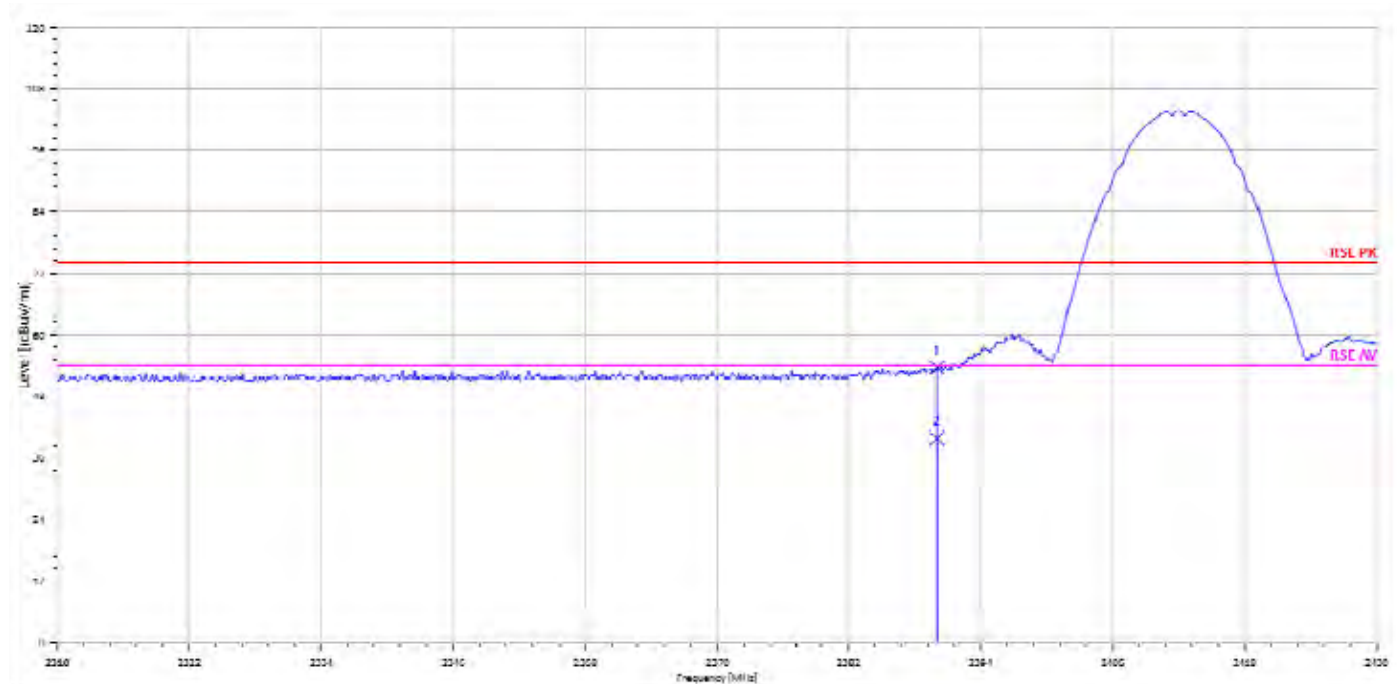
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Radiated Band Edge Measurement Result (802.11b)

Operation Mode :	802.11b	Test Date :	2018/6/7
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Peak	60.35	-6.84	53.51	74	-20.49
2390.00	E	Average	46.53	-6.84	39.69	54	-14.31

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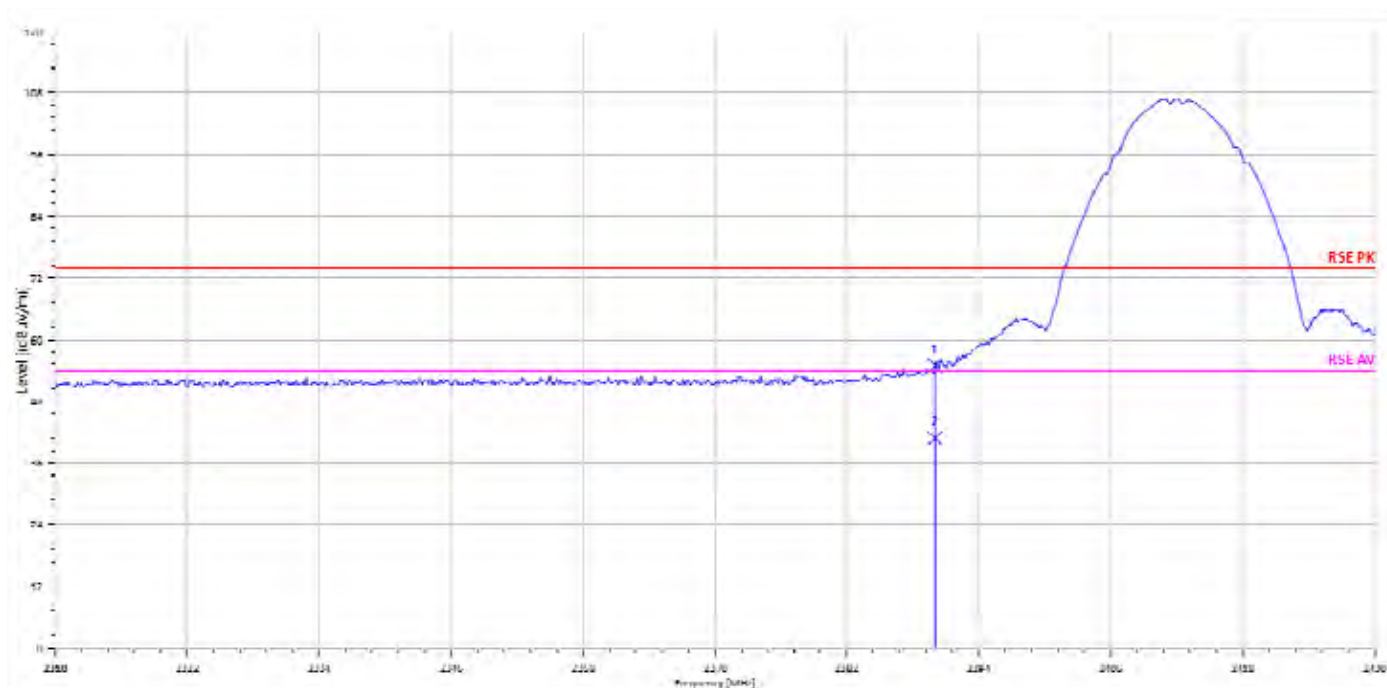
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Operation Mode :	802.11b	Test Date :	2018/6/7
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Peak	61.72	-6.84	54.88	74	-19.12
2390.00	E	Average	47.55	-6.84	40.71	54	-13.29

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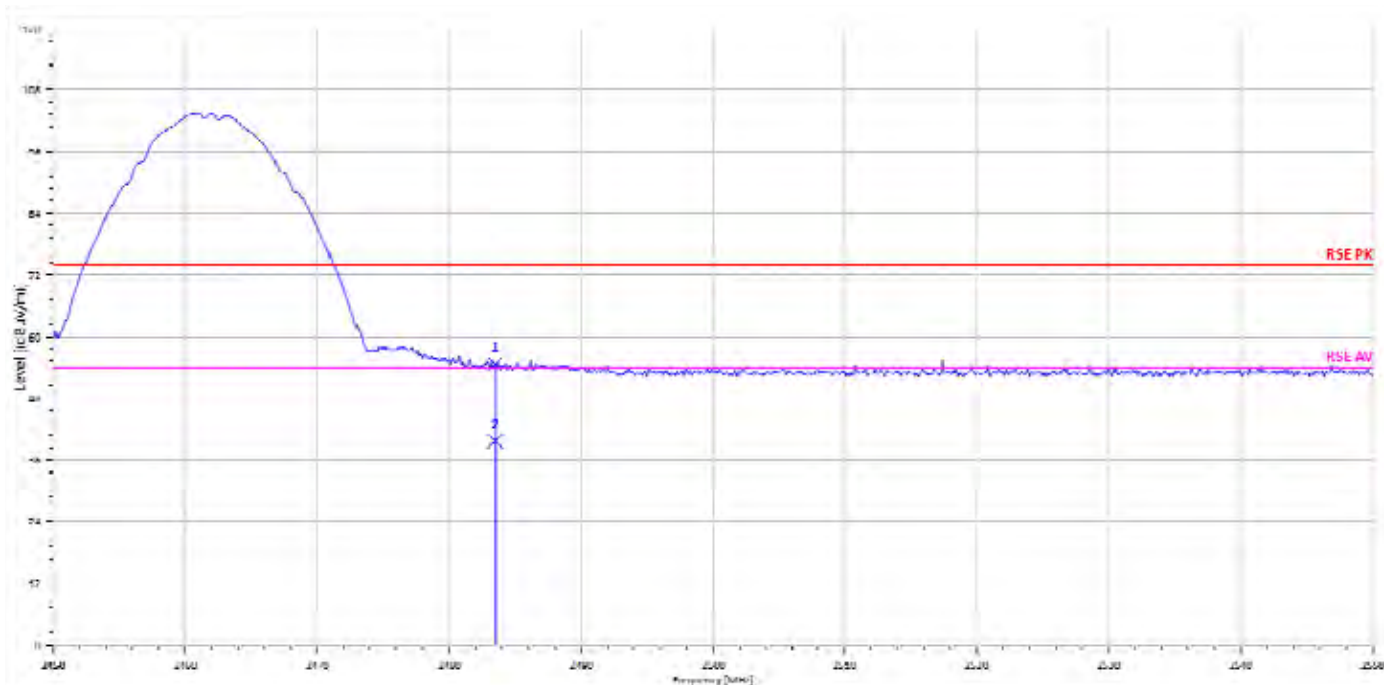
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Operation Mode :	802.11b	Test Date :	2018/5/22
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	60.91	-6.38	54.52	74	-19.48
2483.50	E	Average	45.99	-6.38	39.60	54	-14.40

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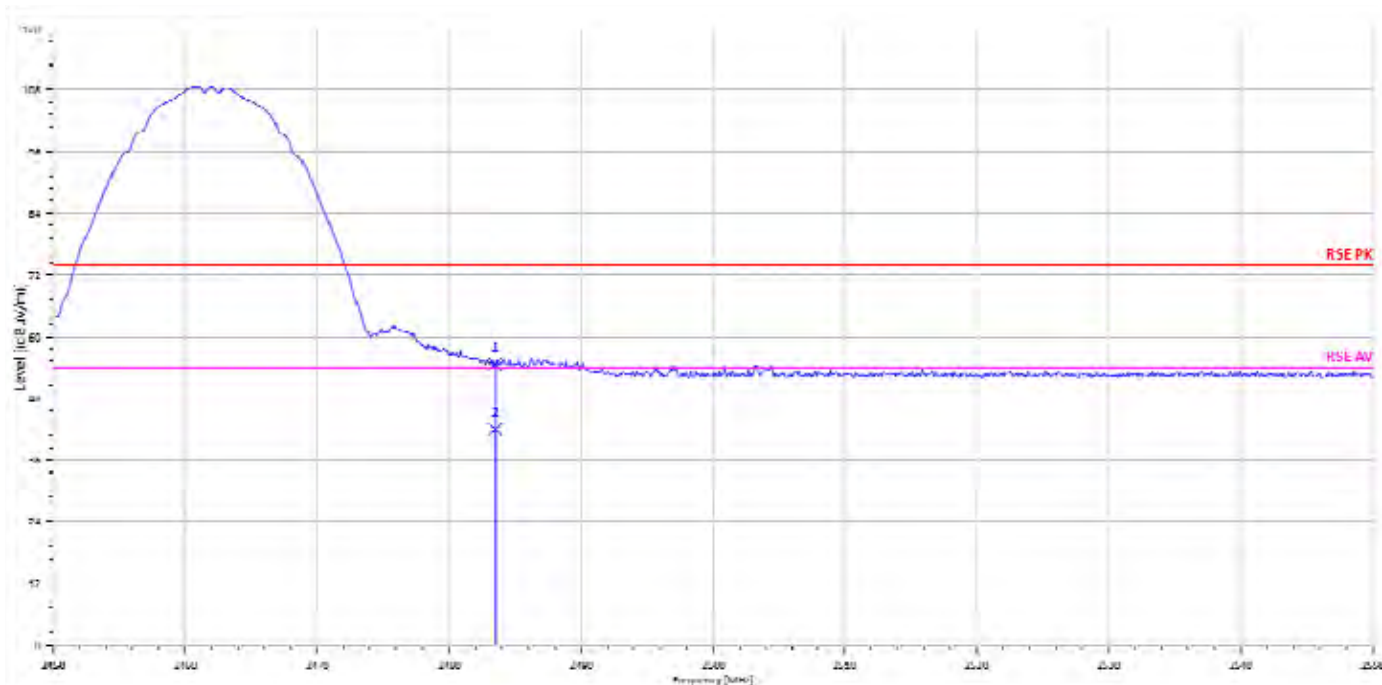
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Operation Mode :	802.11b	Test Date :	2018/5/22
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	60.95	-6.38	54.56	74	-19.44
2483.50	E	Average	48.29	-6.38	41.91	54	-12.09

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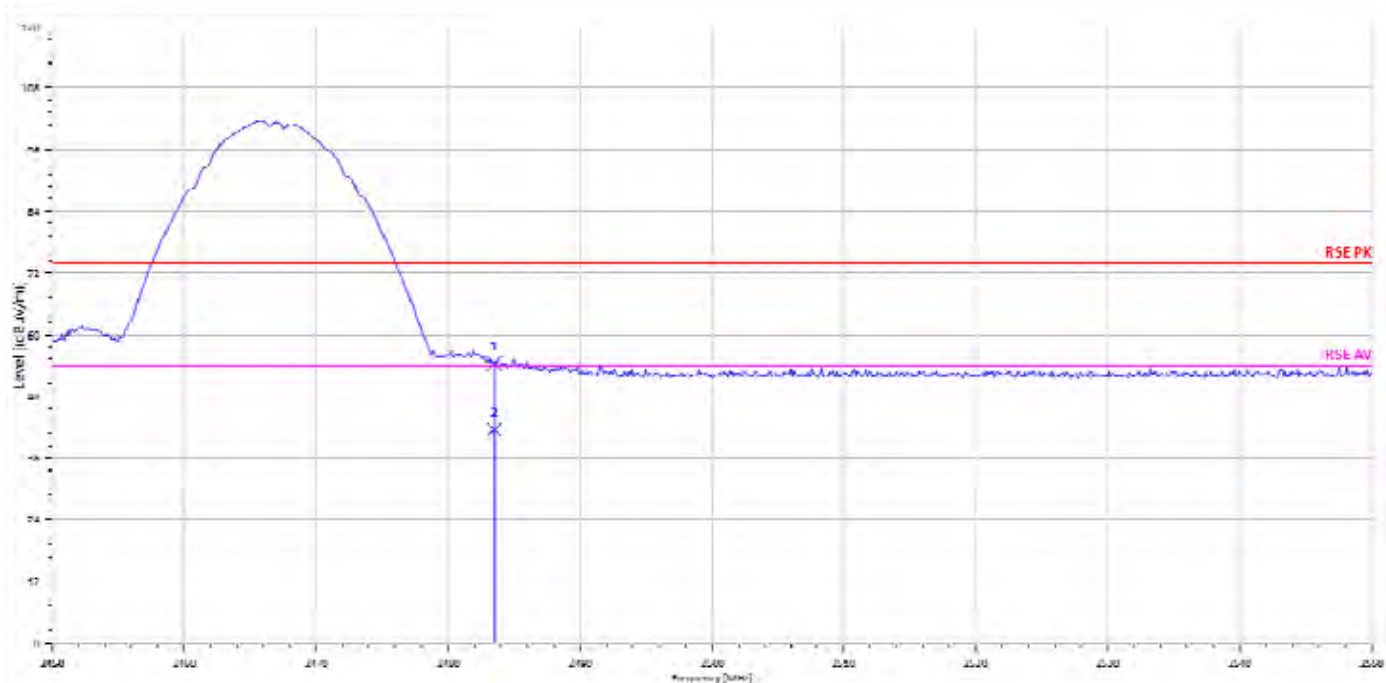
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Operation Mode :	802.11b	Test Date :	2018/5/22
Fundamental Frequency :	2467 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH 12	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	60.75	-6.38	54.36	74	-19.64
2483.50	E	Average	47.82	-6.38	41.43	54	-12.57

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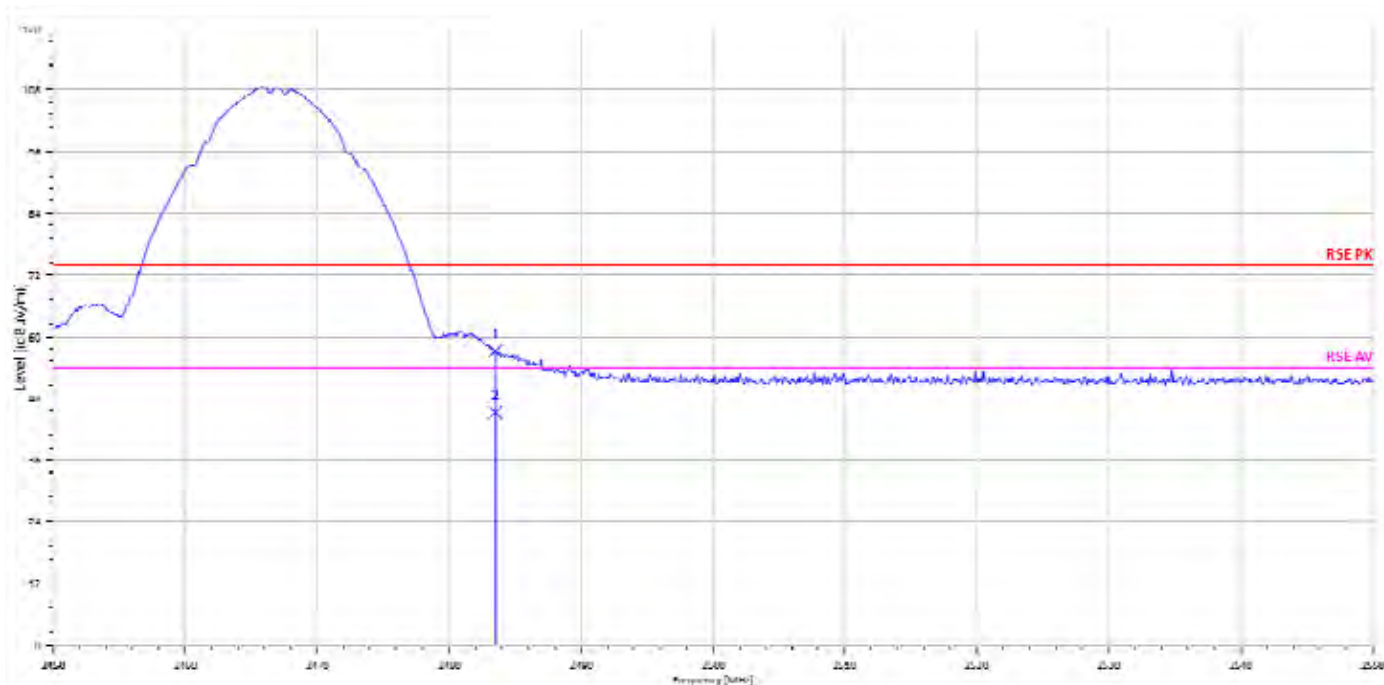
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Operation Mode :	802.11b	Test Date :	2018/5/22
Fundamental Frequency :	2467 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH 12	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	63.50	-6.38	57.12	74	-16.88
2483.50	E	Average	51.54	-6.38	45.15	54	-8.85

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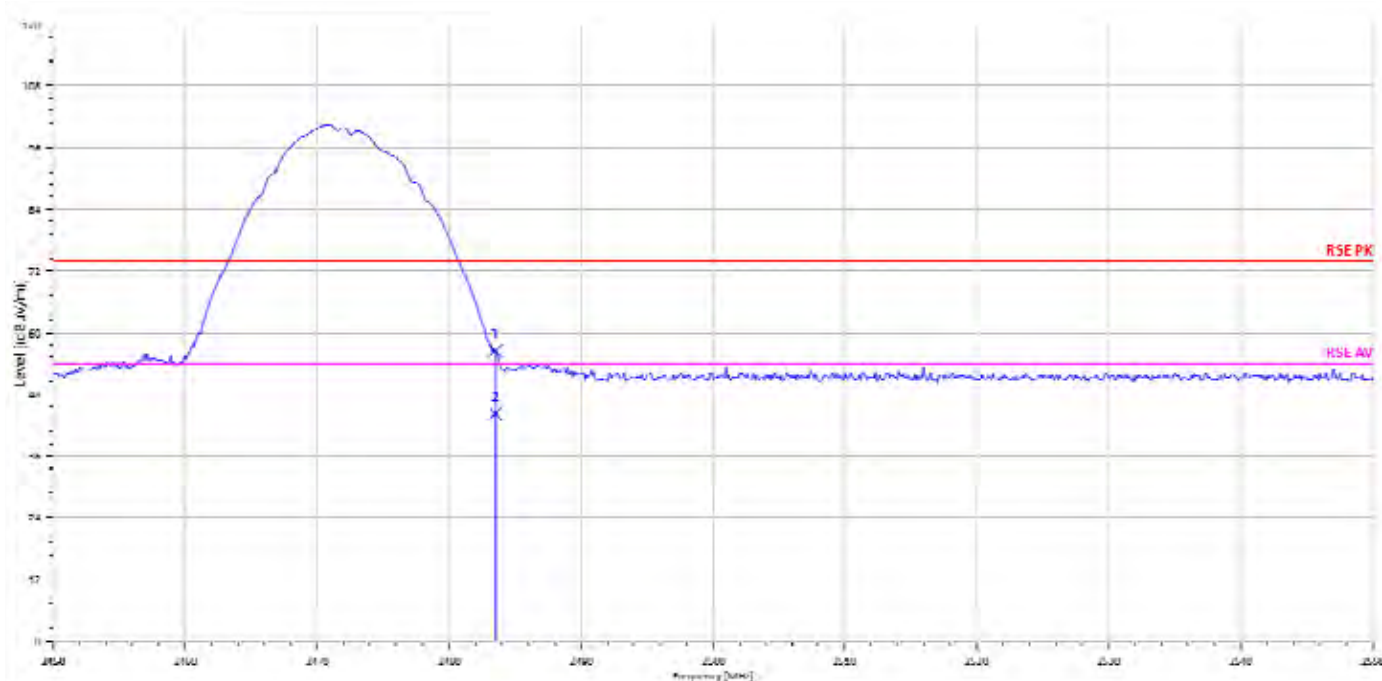
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Operation Mode :	802.11b	Test Date :	2018/6/7
Fundamental Frequency :	2472 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH 13	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	62.75	-6.38	56.37	74	-17.63
2483.50	E	Average	50.59	-6.38	44.20	54	-9.80

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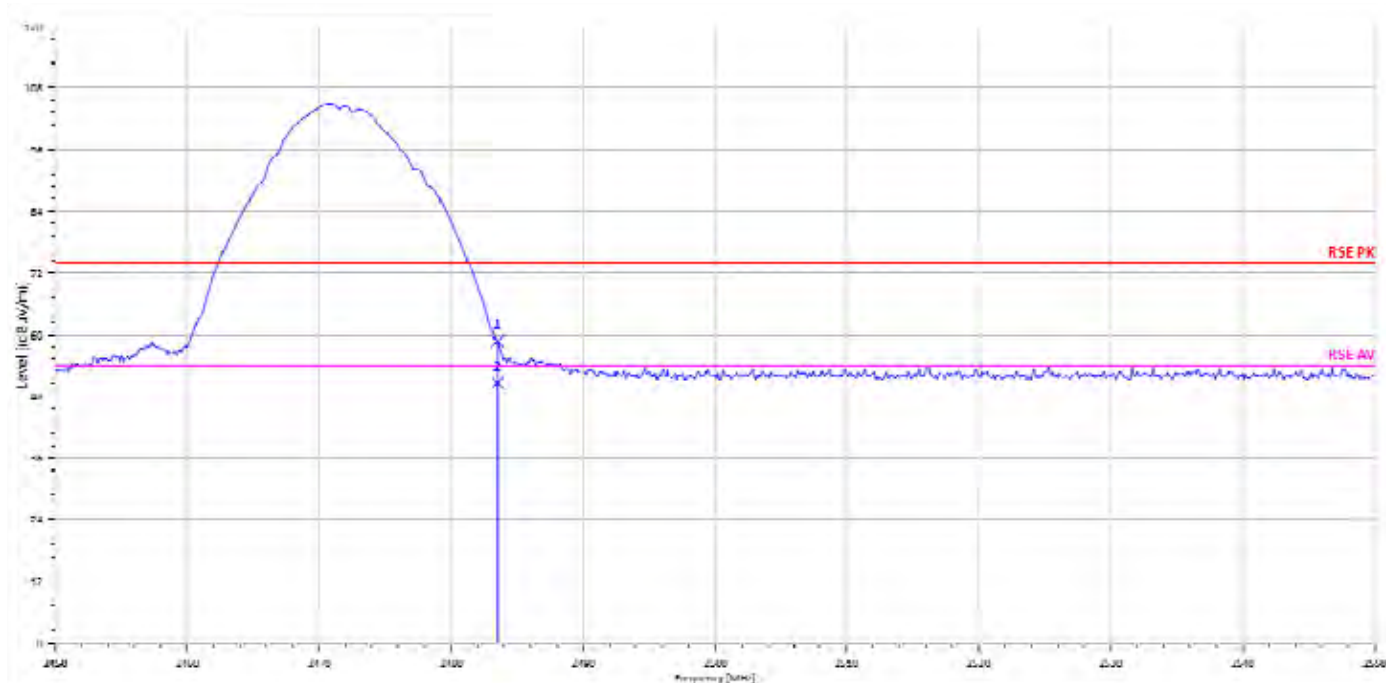
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Operation Mode :	802.11b	Test Date :	2018/6/7
Fundamental Frequency :	2472 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH 13	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	65.06	-6.38	58.68	74	-15.32
2483.50	E	Average	56.95	-6.38	50.57	54	-3.43

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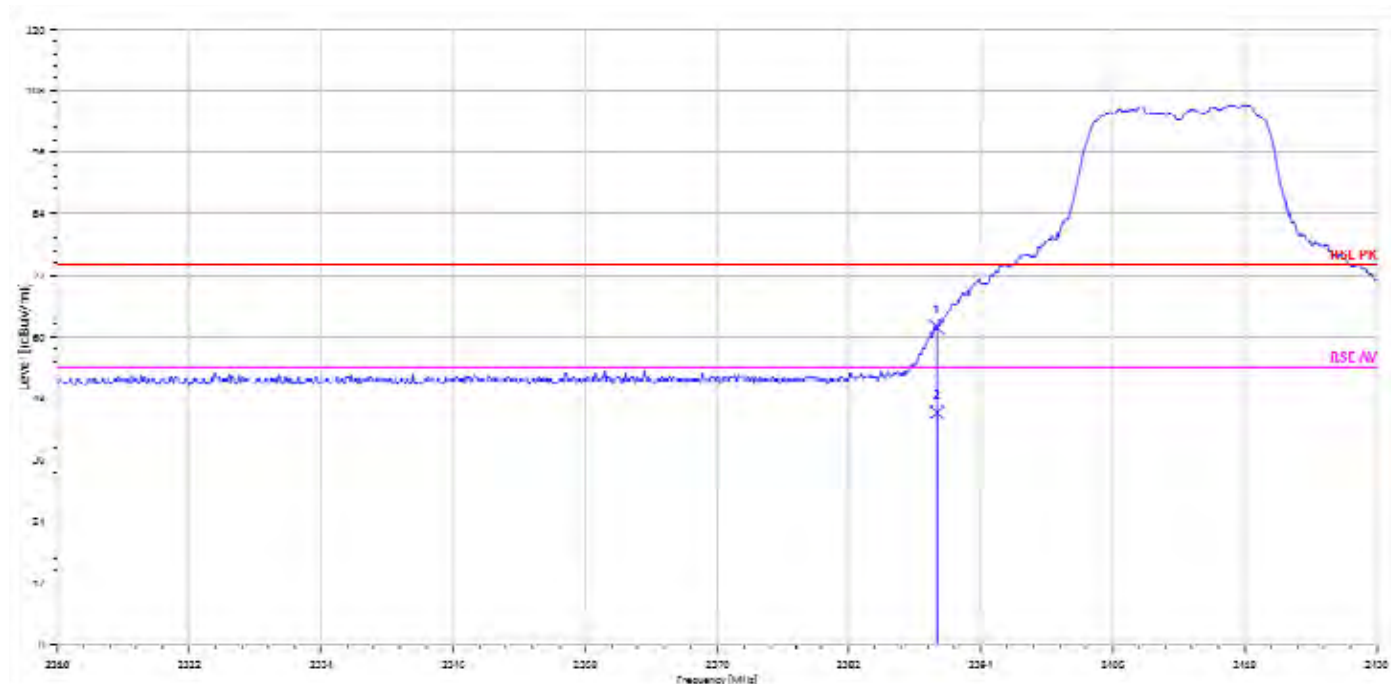
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Radiated Band Edge Measurement Result (802.11g)

Operation Mode :	802.11g	Test Date :	2018/6/7
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Peak	68.59	-6.84	61.75	74	-12.25
2390.00	E	Average	52.05	-6.84	45.21	54	-8.79

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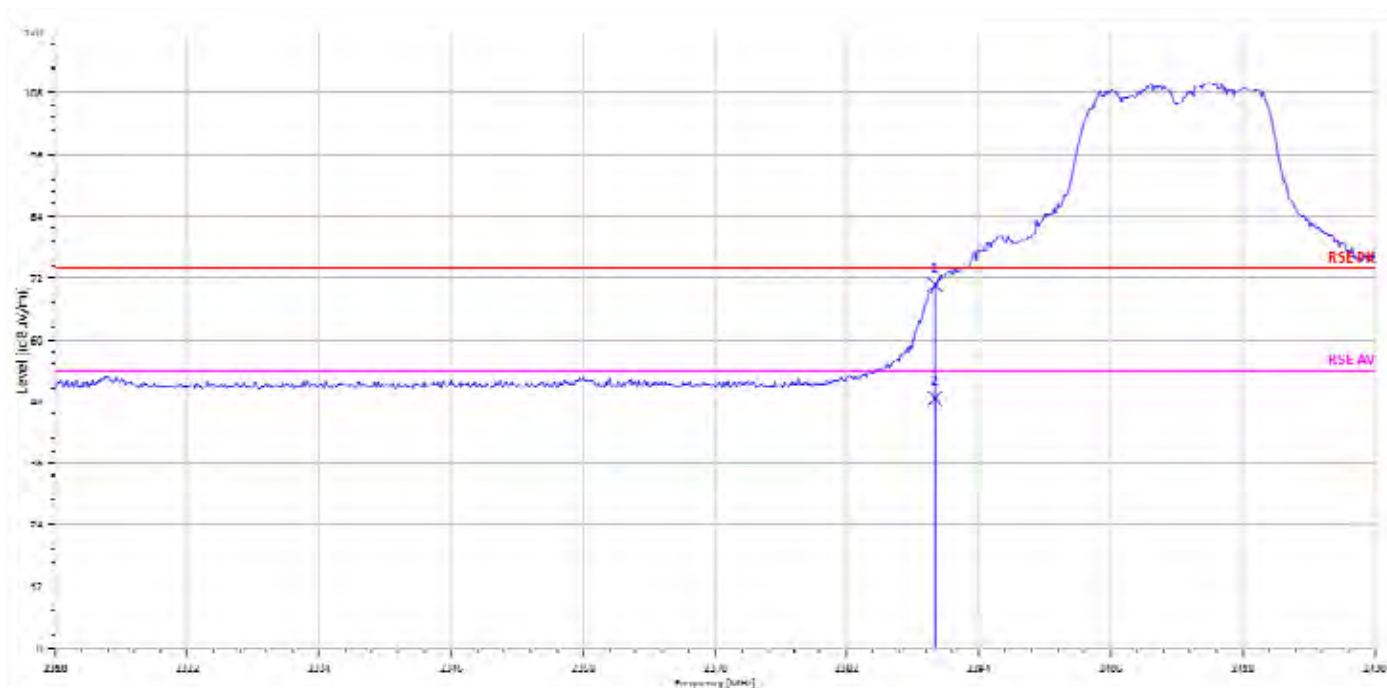
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Operation Mode :	802.11g	Test Date :	2018/6/7
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Peak	77.50	-6.84	70.66	74	-3.34
2390.00	E	Average	55.38	-6.84	48.54	54	-5.46

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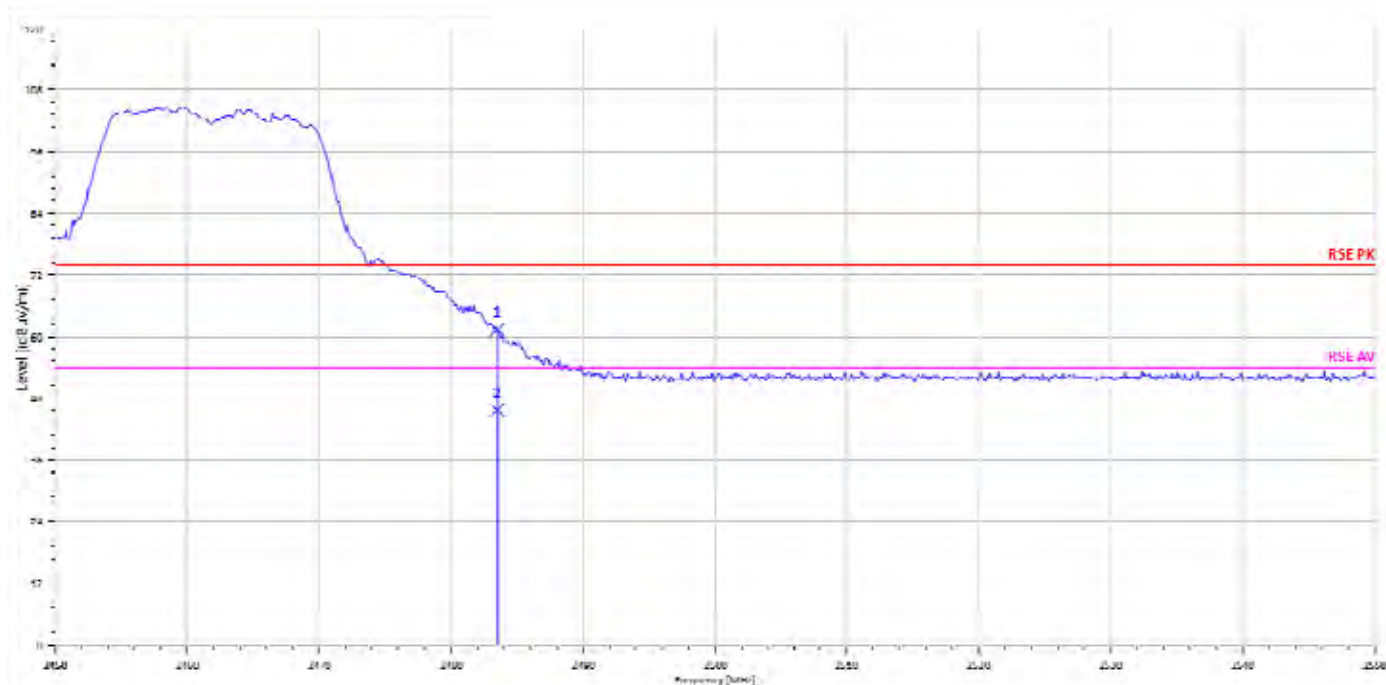
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Operation Mode :	802.11g	Test Date :	2018/5/22
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	67.64	-6.38	61.26	74	-12.74
2483.50	E	Average	52.03	-6.38	45.65	54	-8.35

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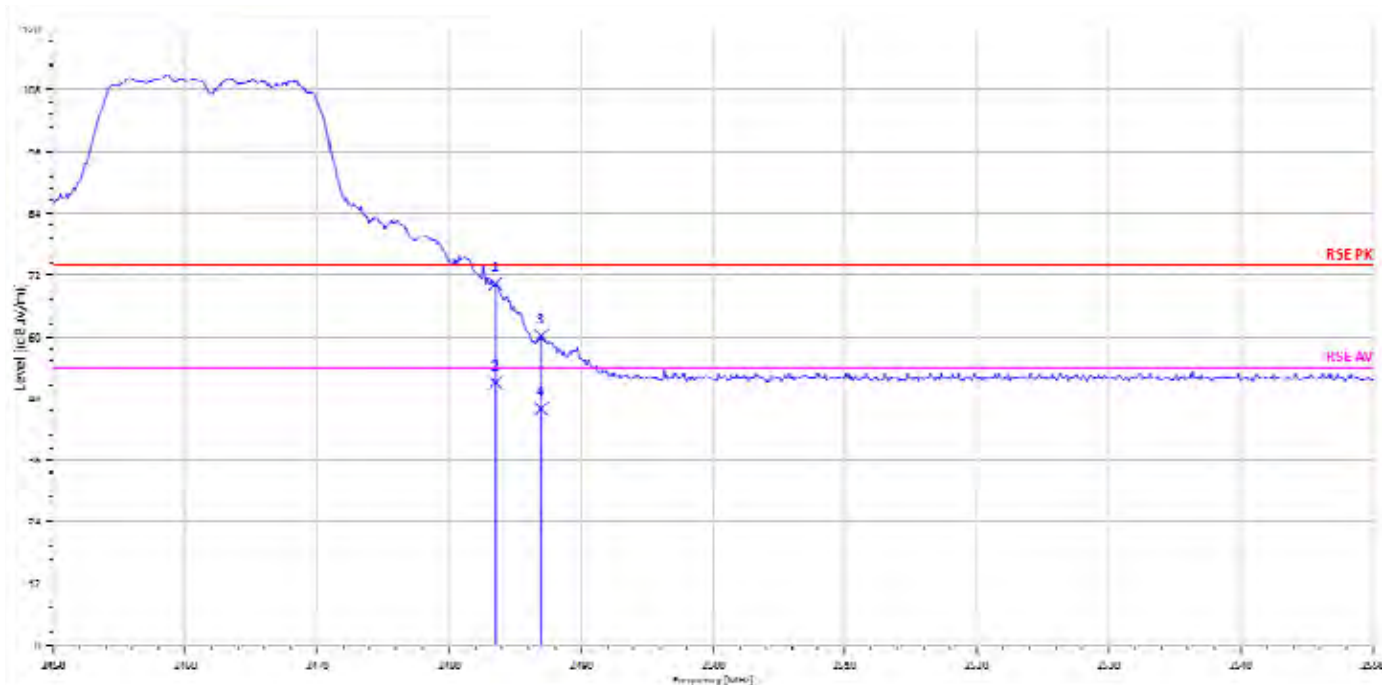
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Operation Mode :	802.11g	Test Date :	2018/5/22
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	76.58	-6.38	70.20	74	-3.80
2483.50	E	Average	57.38	-6.38	51.00	54	-3.00
2487.00	S	Peak	66.34	-6.37	59.98	74	-14.02
2487.00	S	Average	52.22	-6.37	45.85	54	-8.15

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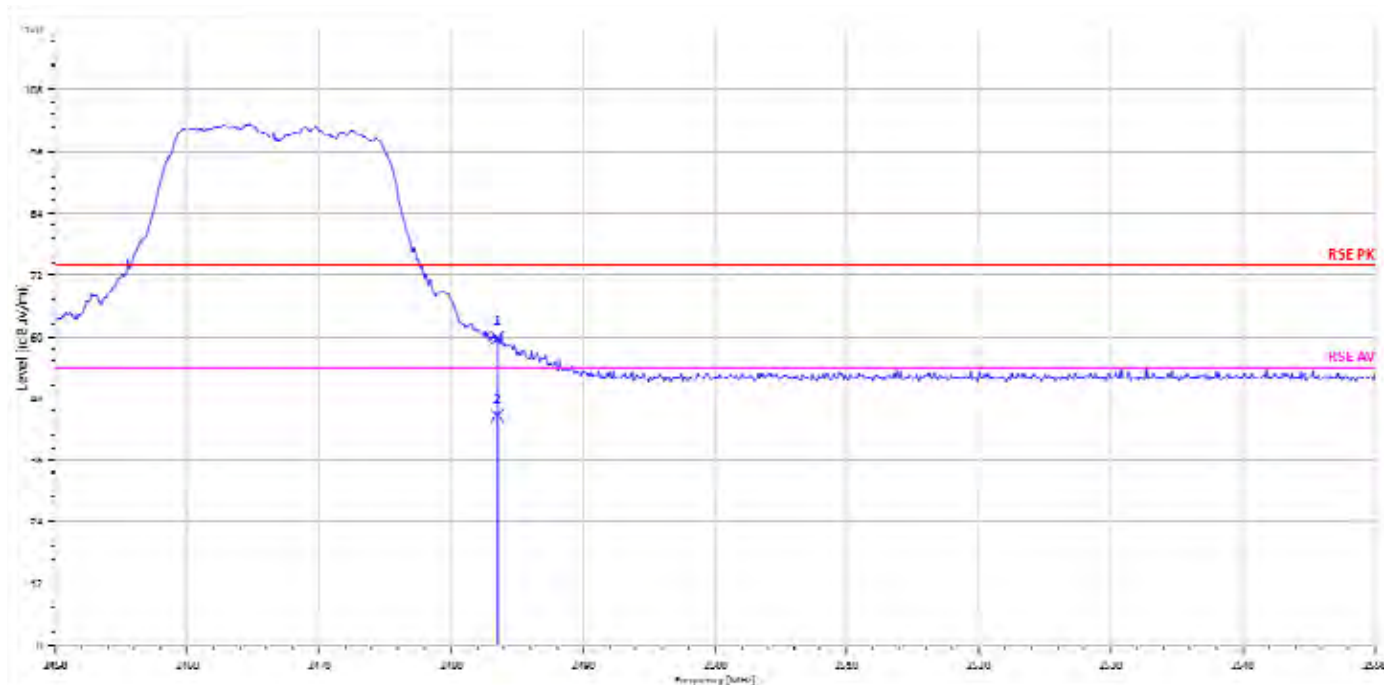
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Operation Mode :	802.11g	Test Date :	2018/5/22
Fundamental Frequency :	2467 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH 12	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	66.07	-6.38	59.68	74	-14.32
2483.50	E	Average	50.98	-6.38	44.60	54	-9.40

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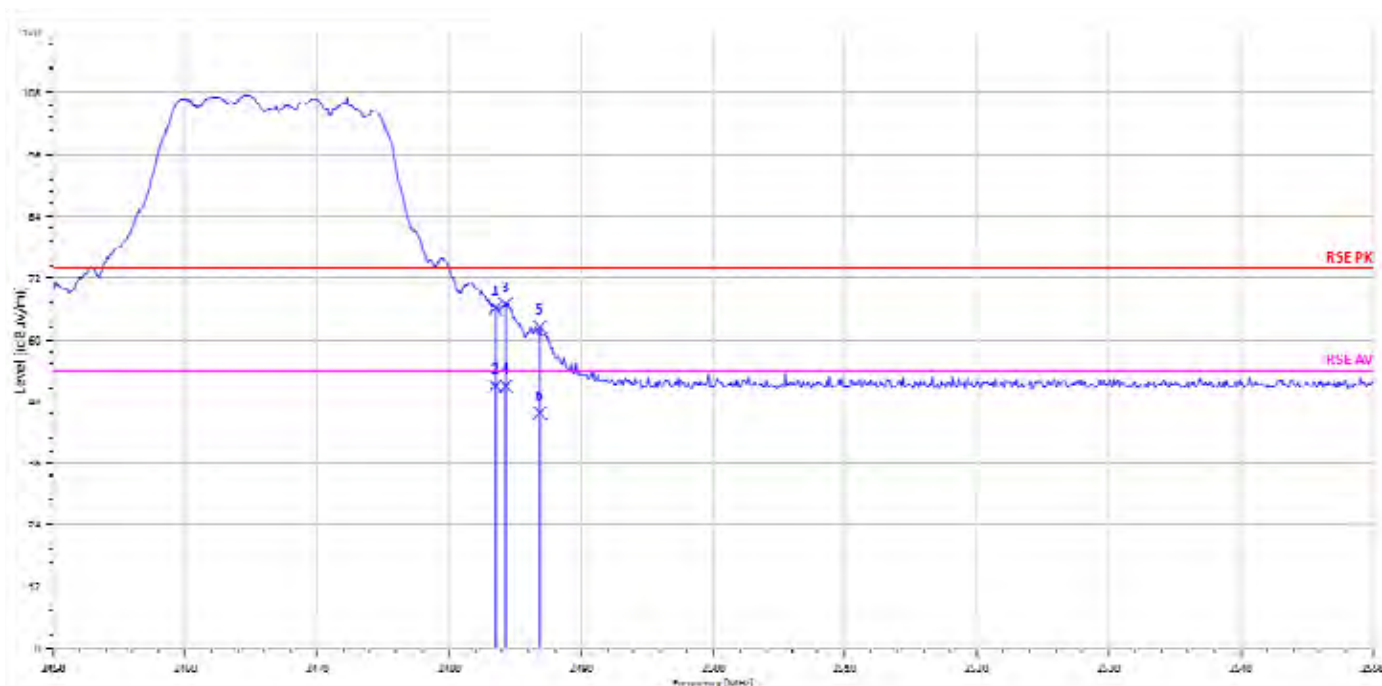
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Operation Mode :	802.11g	Test Date :	2018/5/22
Fundamental Frequency :	2467 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH 12	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	72.42	-6.38	66.04	74	-7.96
2483.50	E	Average	57.34	-6.38	50.95	54	-3.05
2484.30	S	Peak	73.23	-6.38	66.85	74	-7.15
2484.30	S	Average	57.27	-6.38	50.89	54	-3.11
2486.90	S	Peak	68.84	-6.37	62.47	74	-11.53
2486.90	S	Average	52.03	-6.37	45.66	54	-8.34

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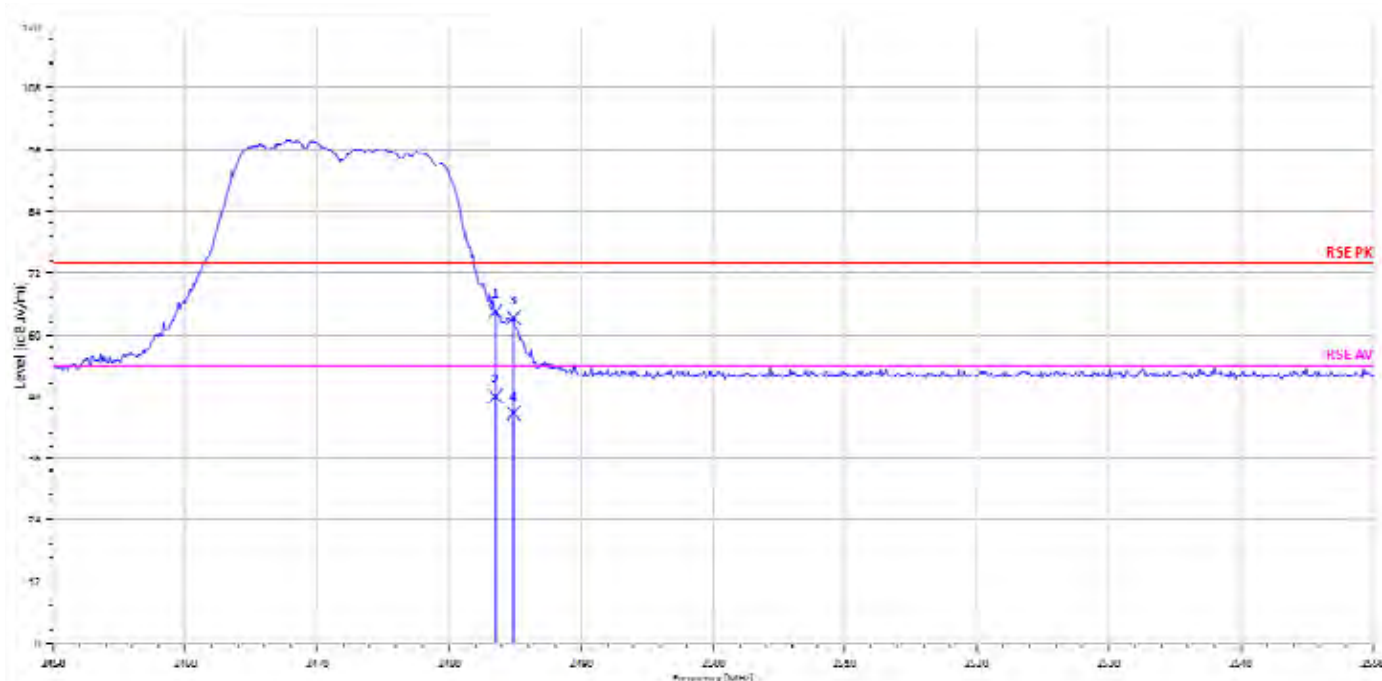
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Operation Mode :	802.11g	Test Date :	2018/6/7
Fundamental Frequency :	2472 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH 13	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	70.85	-6.38	64.47	74	-9.53
2483.50	E	Average	54.38	-6.38	47.99	54	-6.01
2484.90	S	Peak	69.66	-6.38	63.28	74	-10.72
2484.90	S	Average	51.03	-6.38	44.65	54	-9.35

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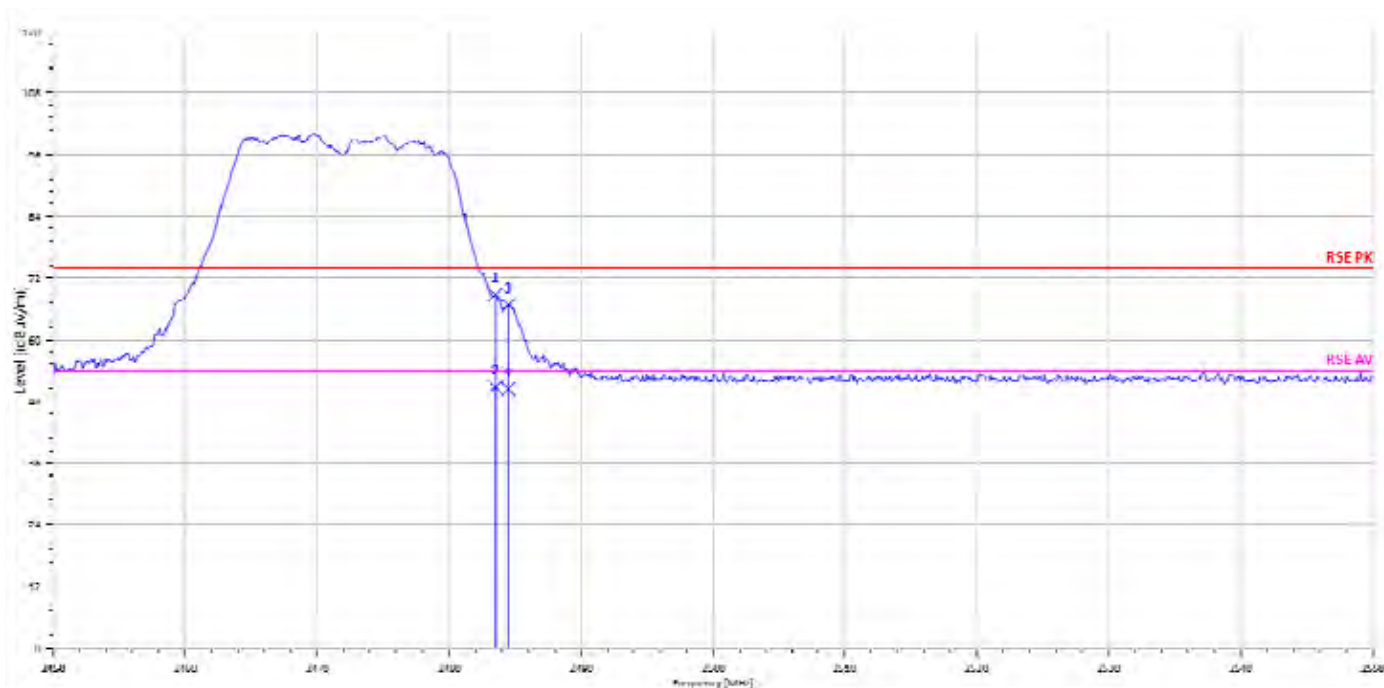
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Fundamental Frequency :	2472 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH 13	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	75.13	-6.38	68.75	74	-5.25
2483.50	E	Average	57.03	-6.38	50.65	54	-3.35
2484.50	S	Peak	73.03	-6.38	66.65	74	-7.35
2484.50	S	Average	56.68	-6.38	50.30	54	-3.70

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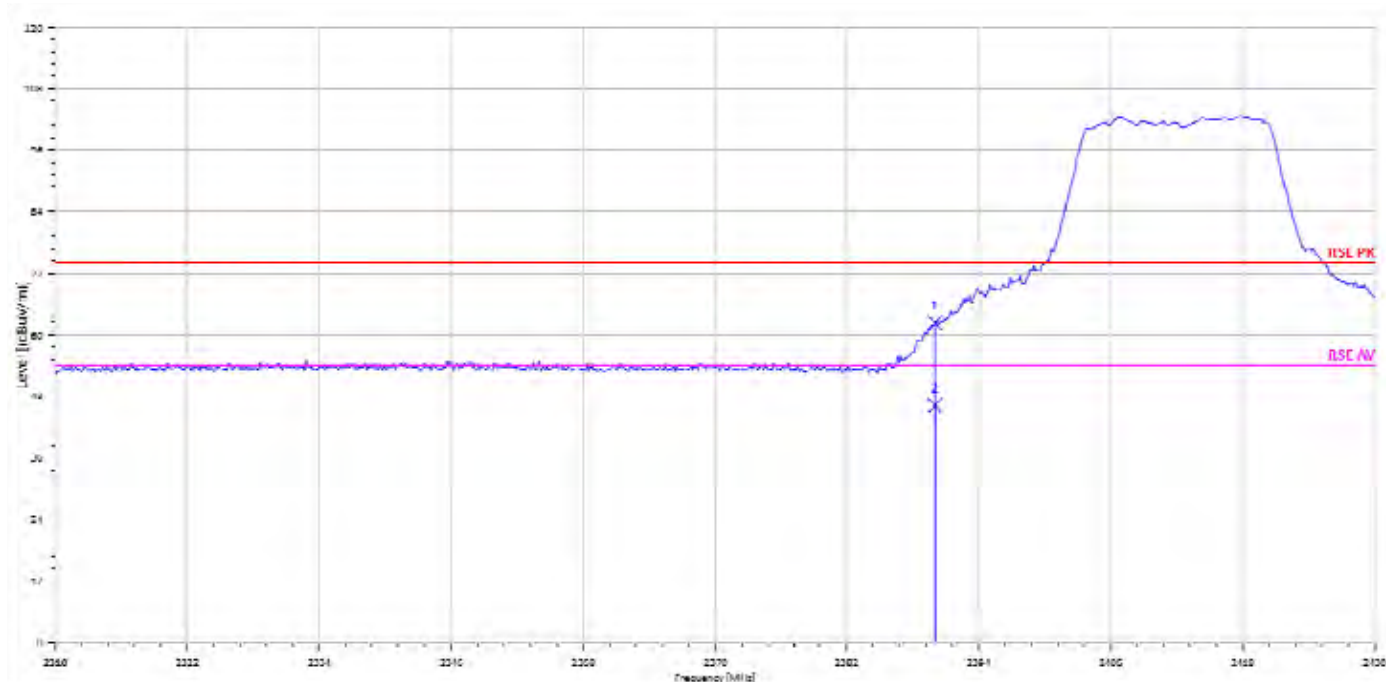
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Radiated Band Edge Measurement Result (802.11_HT20)

Operation Mode :	802.11n20	Test Date :	2018/2/21
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Peak	69.05	-6.84	62.21	74	-11.79
2390.00	E	Average	52.96	-6.84	46.12	54	-7.88

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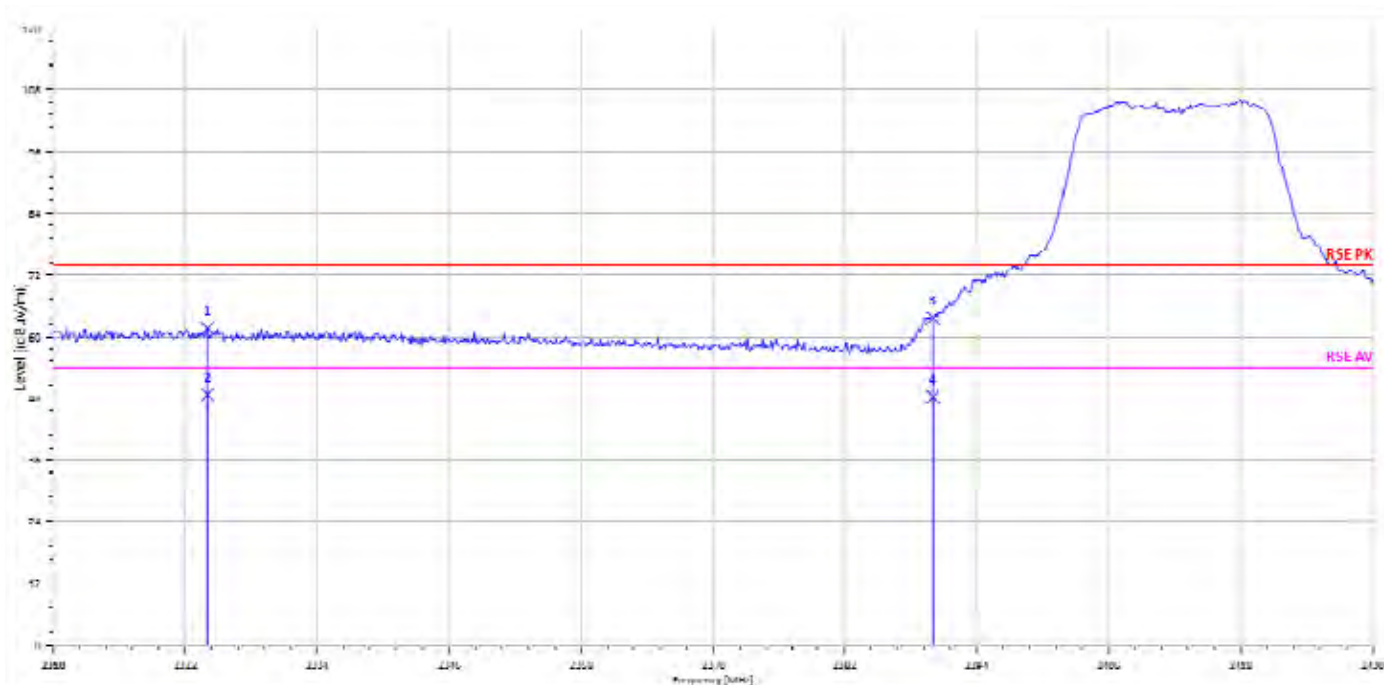
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Operation Mode :	802.11n20	Test Date :	2018/2/21
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2324.04	S	Peak	68.63	-7.07	61.56	74	-12.44
2324.04	S	Average	55.72	-7.07	48.65	54	-5.35
2390.00	E	Peak	70.45	-6.84	63.60	74	-10.40
2390.00	E	Average	55.10	-6.84	48.26	54	-5.74

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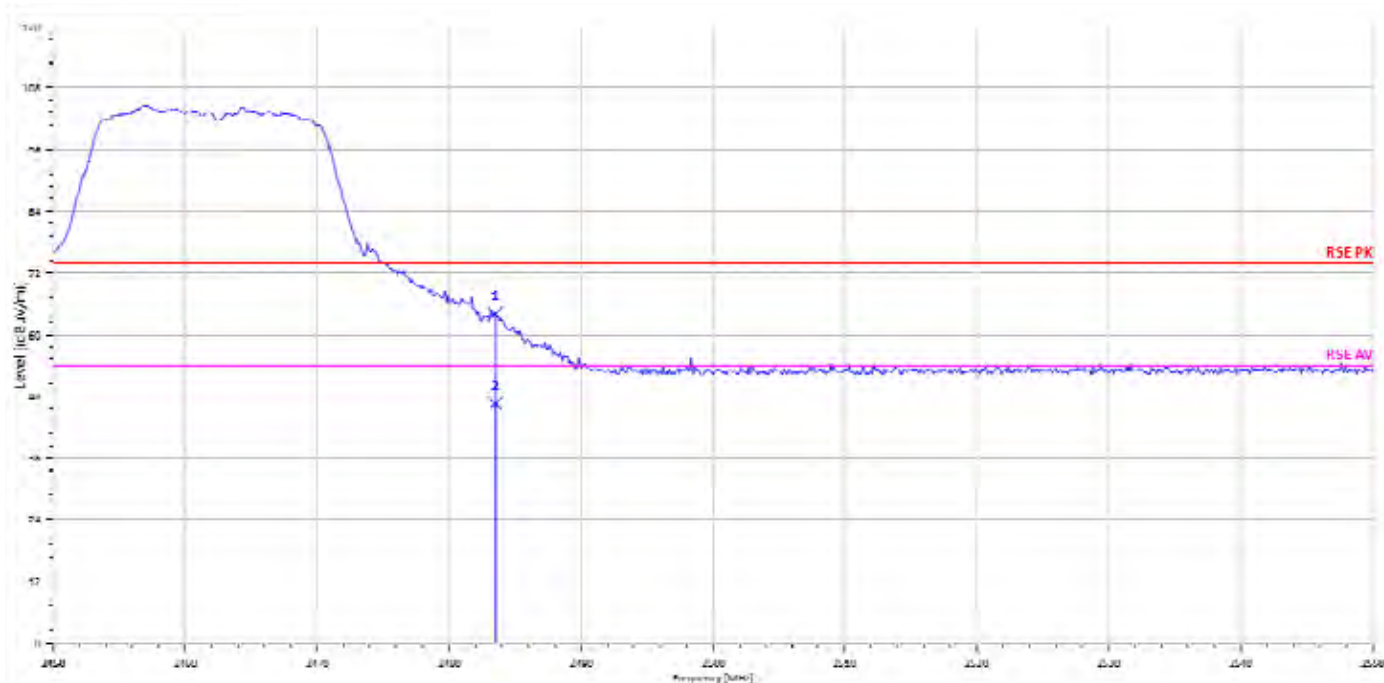
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Operation Mode :	802.11n20	Test Date :	2018/2/21
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	70.41	-6.38	64.02	74	-9.98
2483.50	E	Average	52.91	-6.38	46.53	54	-7.47

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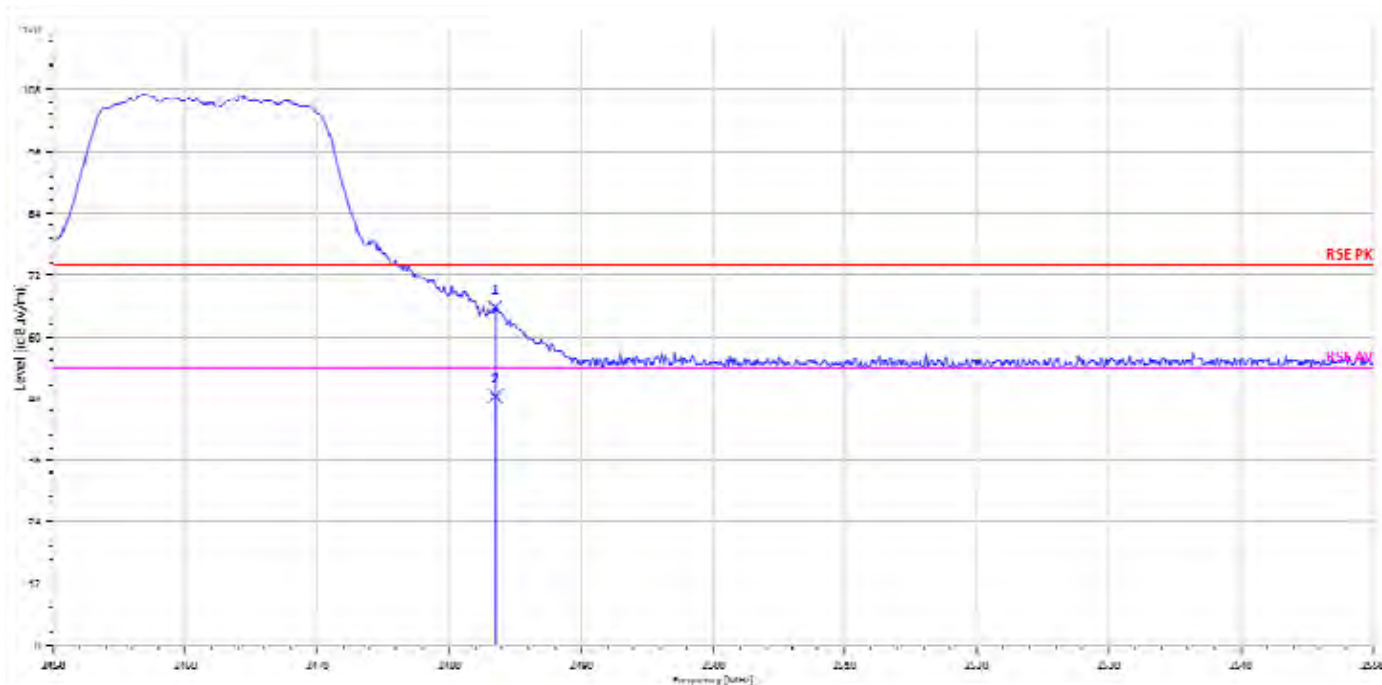
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Fundamental Frequency :	2462 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	72.06	-6.38	65.68	74	-8.32
2483.50	E	Average	54.77	-6.38	48.38	54	-5.62

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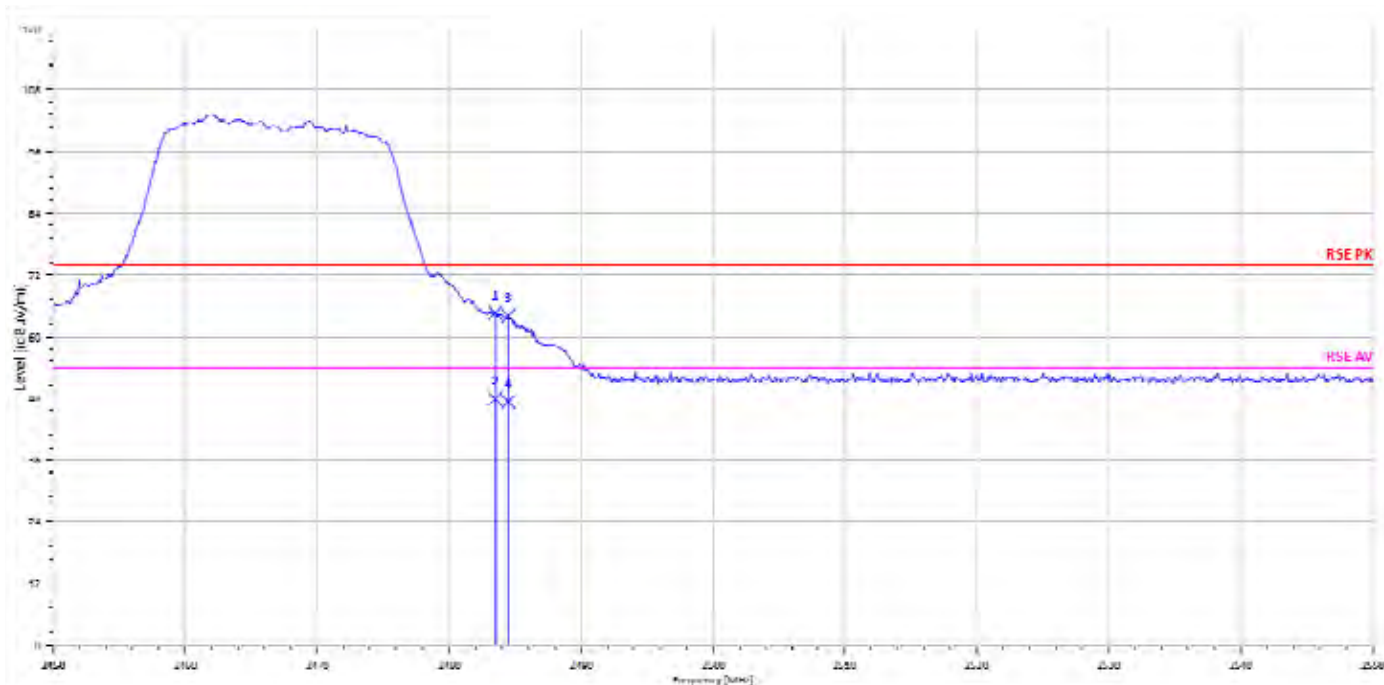
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Fundamental Frequency :	2467 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH 12	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	71.00	-6.38	64.61	74	-9.39
2483.50	E	Average	54.23	-6.38	47.85	54	-6.15
2484.50	S	Peak	70.42	-6.38	64.04	74	-9.96
2484.50	S	Average	53.71	-6.38	47.33	54	-6.67

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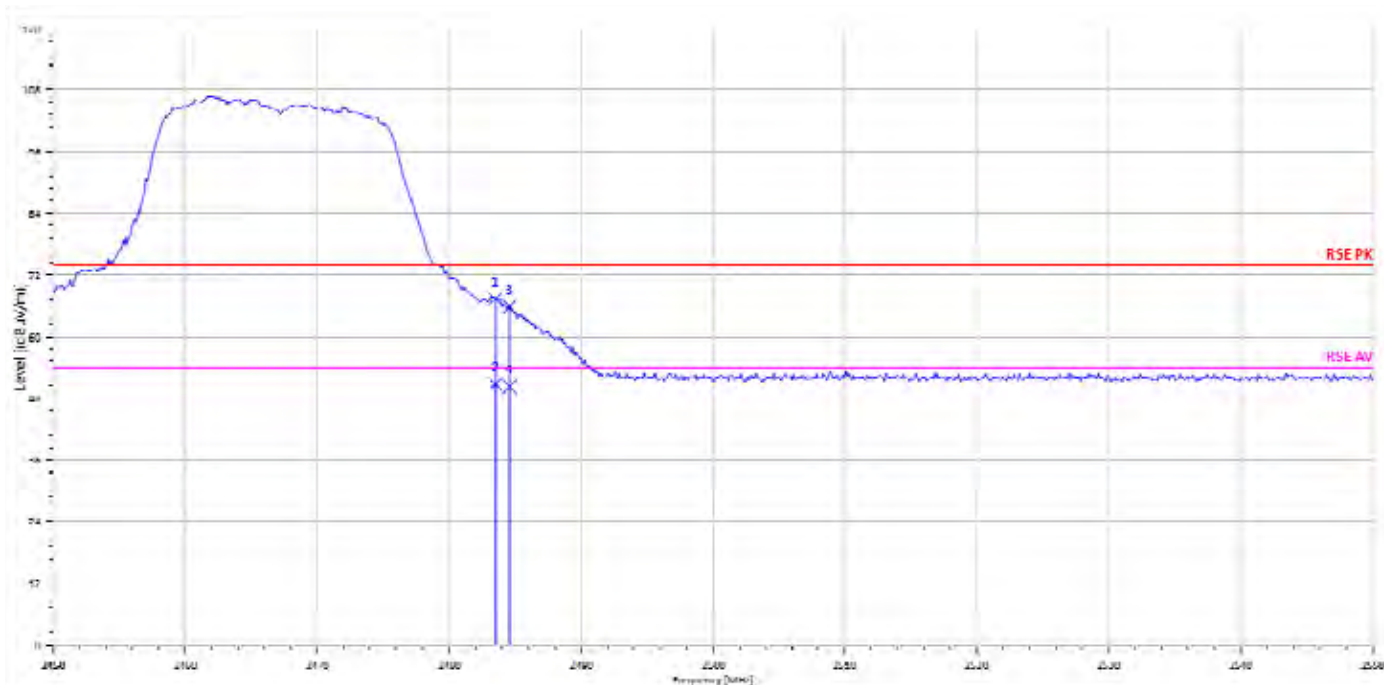
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Operation Mode :	802.11n20	Test Date :	2018/6/7
Fundamental Frequency :	2467 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH 12	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	73.71	-6.38	67.33	74	-6.67
2483.50	E	Average	57.02	-6.38	50.64	54	-3.36
2484.60	S	Peak	72.16	-6.38	65.78	74	-8.22
2484.60	S	Average	56.55	-6.38	50.17	54	-3.83

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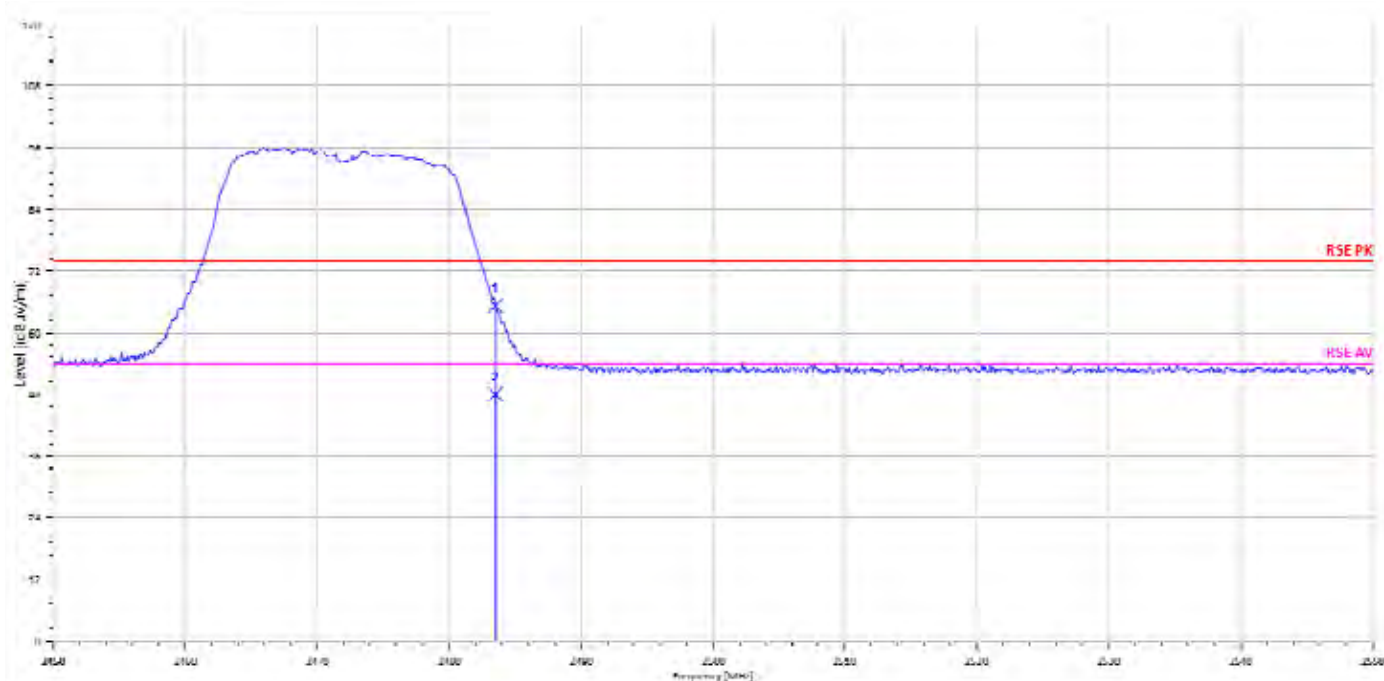
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Operation Mode :	802.11n20	Test Date :	2018/6/7
Fundamental Frequency :	2472 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH 13	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	71.57	-6.38	65.18	74	-8.82
2483.50	E	Average	54.38	-6.38	48.00	54	-6.00

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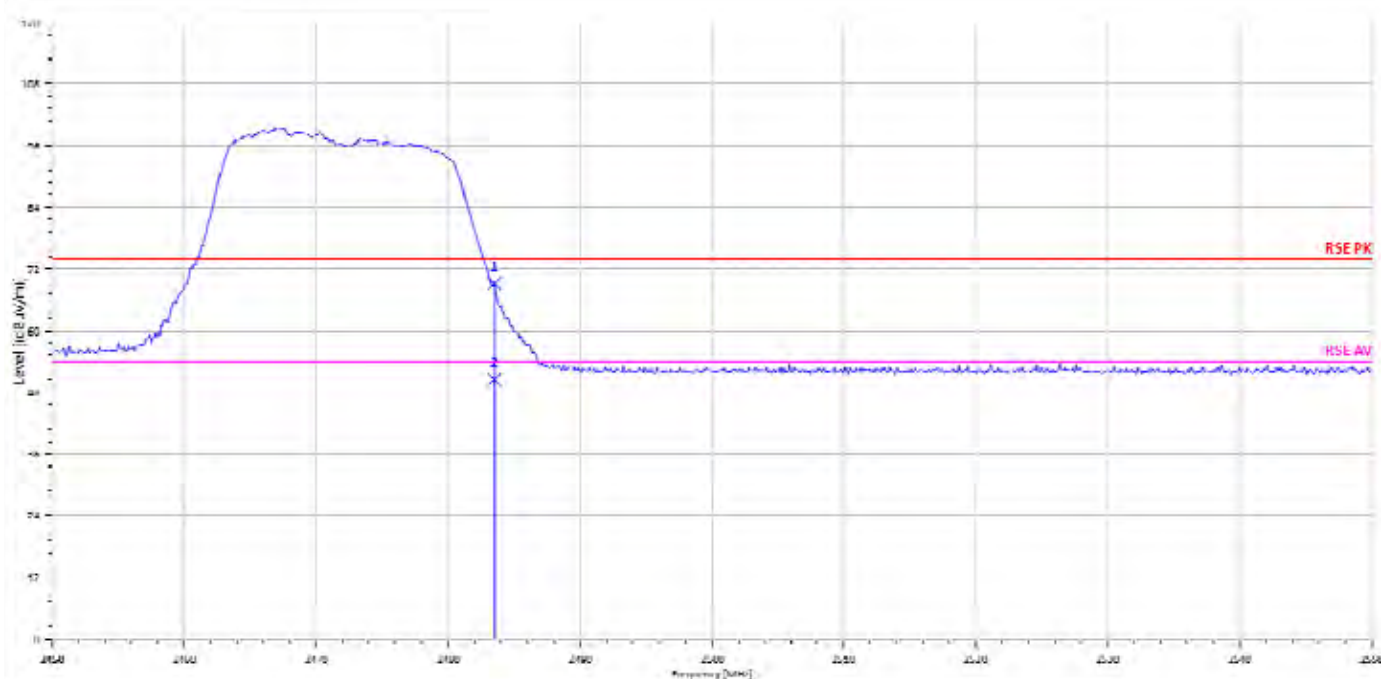
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Operation Mode :	802.11n20	Test Date :	2018/6/7
Fundamental Frequency :	2472 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH 13	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	75.57	-6.38	69.19	74	-4.81
2483.50	E	Average	56.79	-6.38	50.41	54	-3.59

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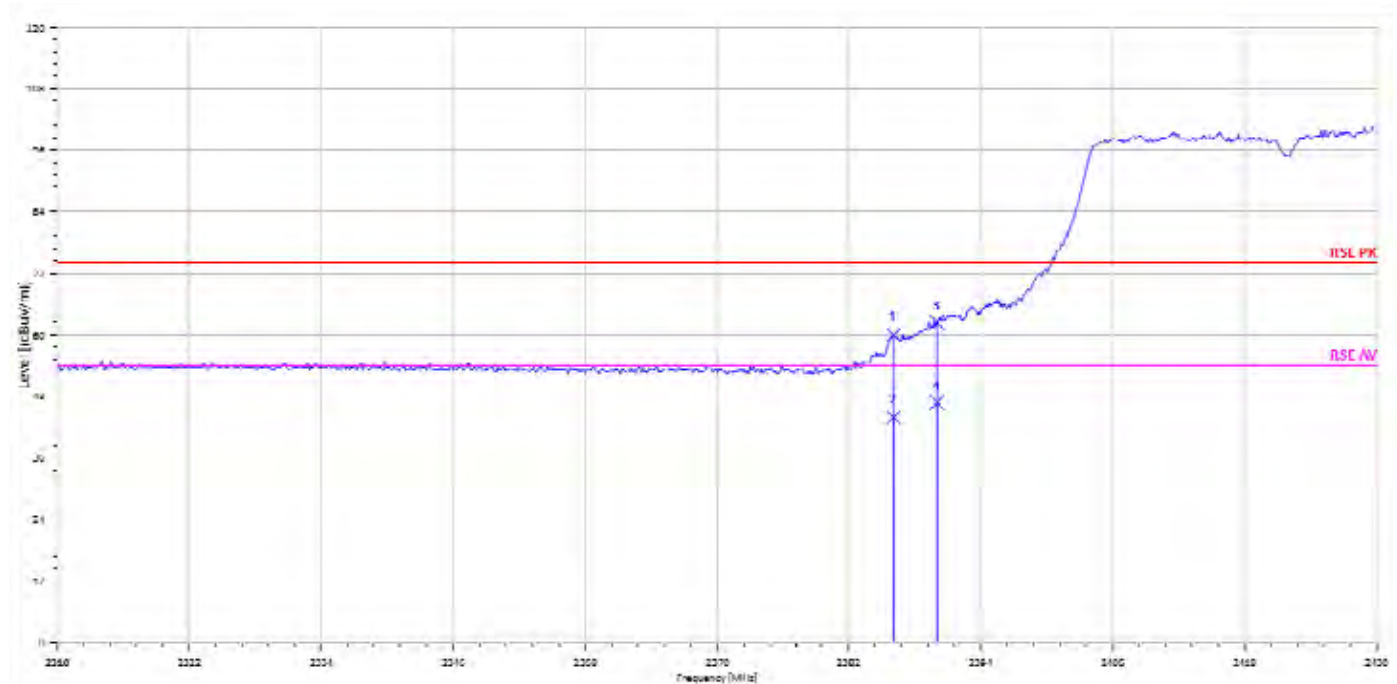
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Radiated Band Edge Measurement Result (802.11_HT40)

Operation Mode :	802.11n40	Test Date :	2018/2/21
Fundamental Frequency :	2422 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2386.08	S	Peak	66.77	-6.86	59.91	74	-14.09
2386.08	S	Average	50.70	-6.86	43.84	54	-10.16
2390.00	E	Peak	69.20	-6.84	62.36	74	-11.64
2390.00	E	Average	53.55	-6.84	46.70	54	-7.30

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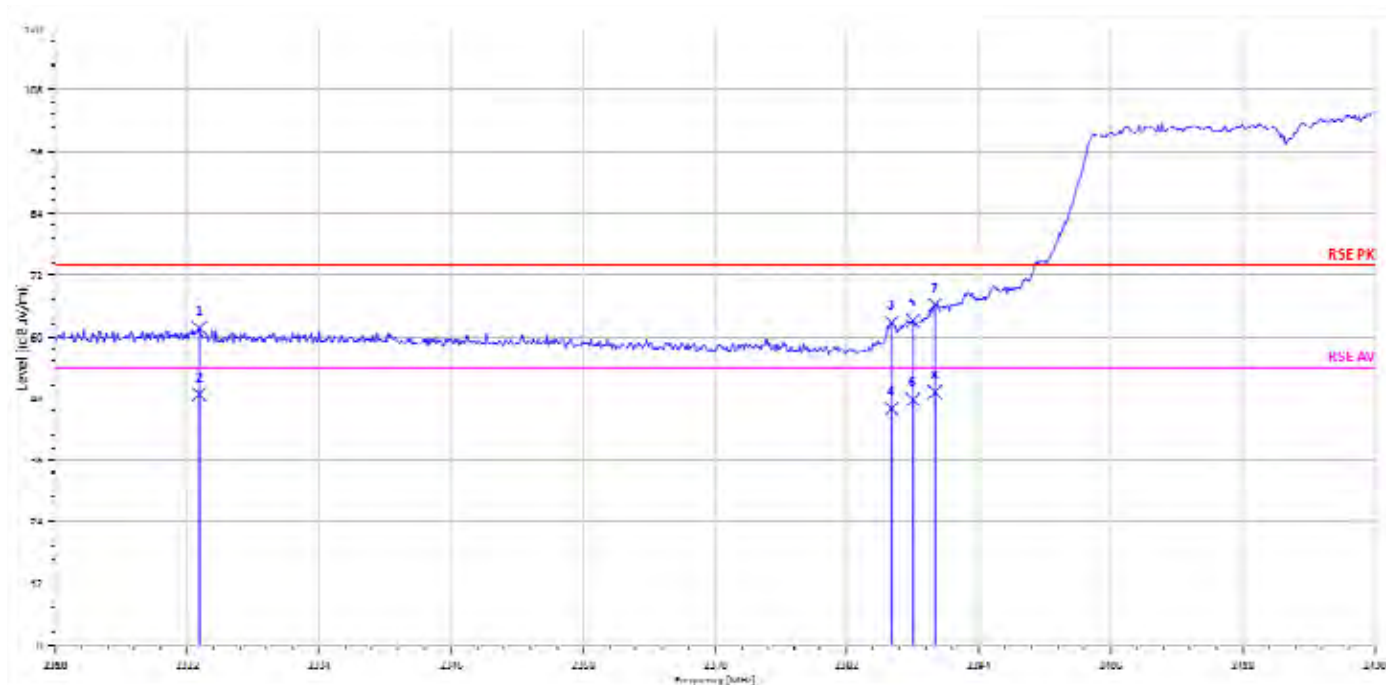
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Operation Mode :	802.11n40	Test Date :	2018/2/21
Fundamental Frequency :	2422 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2323.08	S	Peak	68.69	-7.08	61.61	74	-12.39
2323.08	S	Average	55.80	-7.08	48.72	54	-5.28
2386.08	S	Peak	69.50	-6.86	62.64	74	-11.36
2386.08	S	Average	52.74	-6.86	45.88	54	-8.12
2388.00	S	Peak	69.93	-6.85	63.08	74	-10.92
2388.00	S	Average	54.58	-6.85	47.73	54	-6.27
2390.00	E	Peak	72.94	-6.84	66.10	74	-7.90
2390.00	E	Average	56.01	-6.84	49.17	54	-4.83

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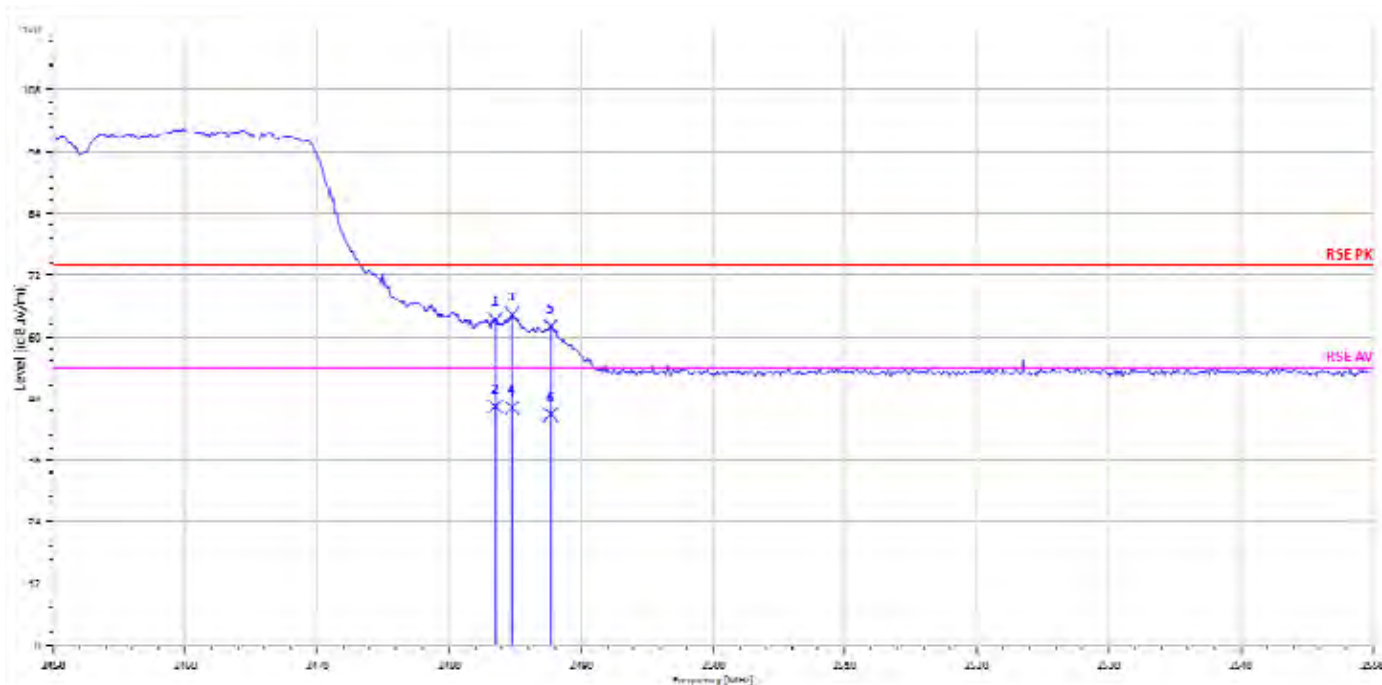
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Operation Mode :	802.11n40	Test Date :	2018/2/21
Fundamental Frequency :	2452 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	69.71	-6.38	63.32	74	-10.68
2483.50	E	Average	52.76	-6.38	46.37	54	-7.63
2484.80	S	Peak	70.68	-6.38	64.30	74	-9.70
2484.80	S	Average	52.50	-6.38	46.13	54	-7.87
2487.70	S	Peak	68.42	-6.36	62.06	74	-11.94
2487.70	S	Average	51.14	-6.36	44.78	54	-9.22

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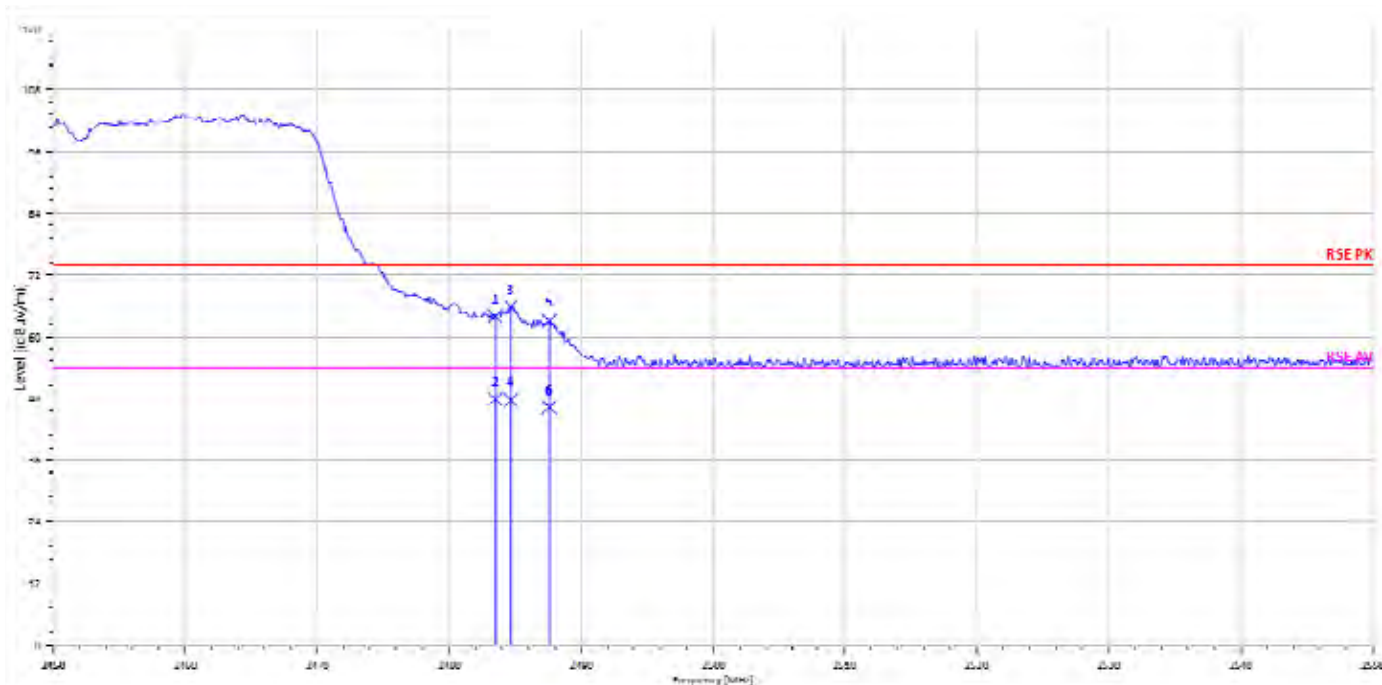
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Operation Mode :	802.11n40	Test Date :	2018/2/21
Fundamental Frequency :	2452 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	70.34	-6.38	63.96	74	-10.04
2483.50	E	Average	54.22	-6.38	47.83	54	-6.17
2484.70	S	Peak	72.10	-6.38	65.72	74	-8.28
2484.70	S	Average	54.01	-6.38	47.63	54	-6.37
2487.60	S	Peak	69.45	-6.36	63.09	74	-10.91
2487.60	S	Average	52.59	-6.36	46.22	54	-7.78

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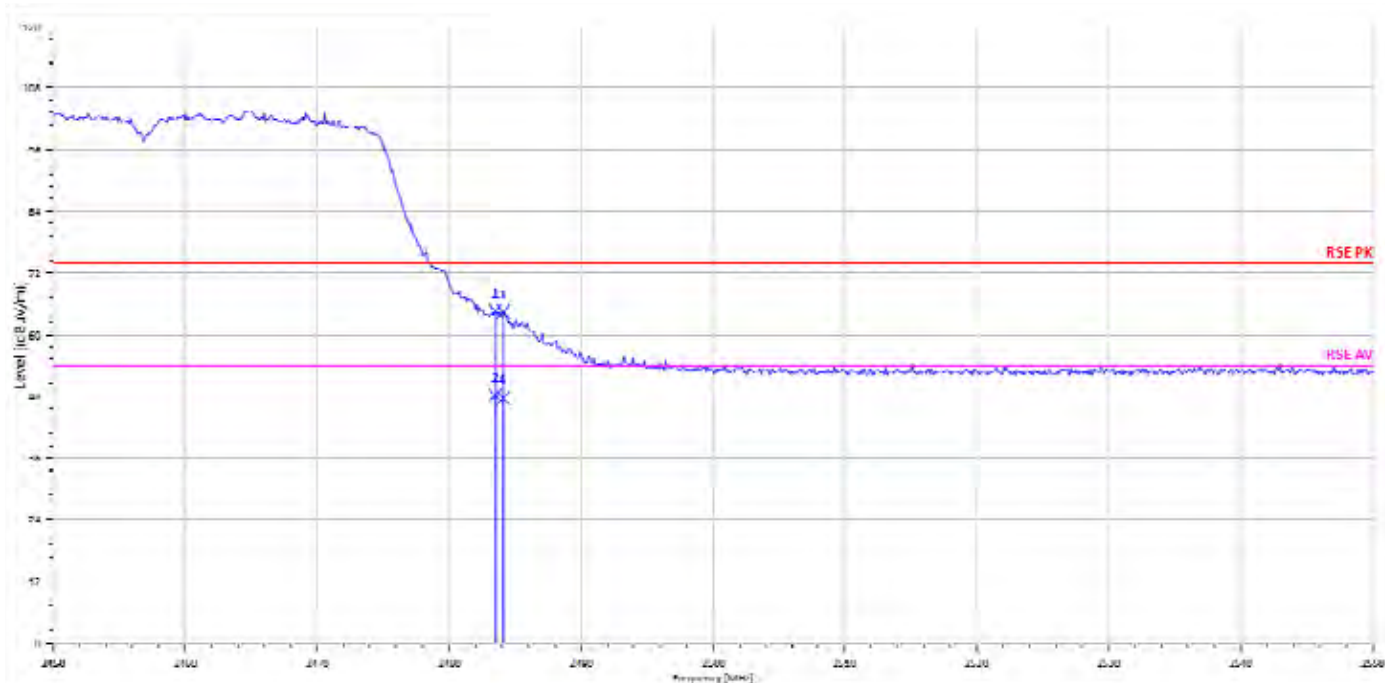
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Operation Mode :	802.11n40	Test Date :	2018/2/27
Fundamental Frequency :	2457 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH 10	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	71.00	-6.38	64.62	74	-9.38
2483.50	E	Average	54.52	-6.38	48.13	54	-5.87
2484.10	S	Peak	70.79	-6.38	64.41	74	-9.59
2484.10	S	Average	54.00	-6.38	47.62	54	-6.38

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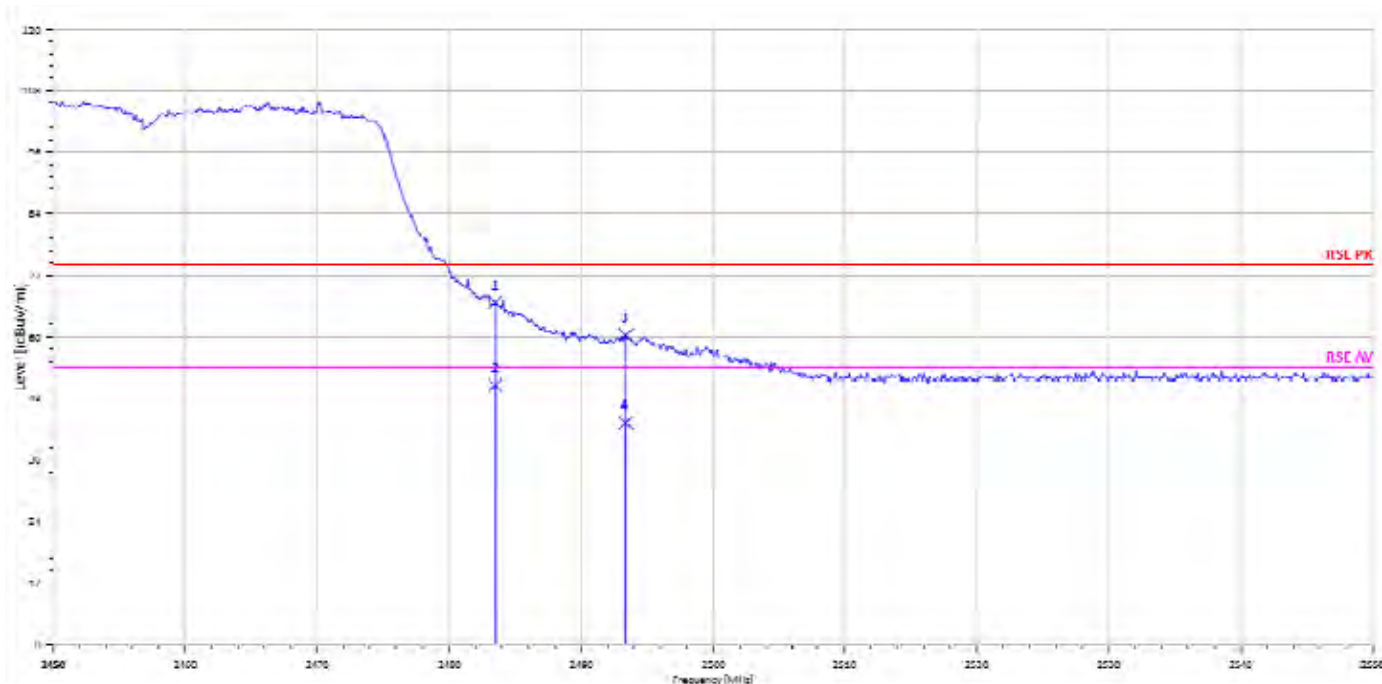
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Operation Mode : 802.11n40 Test Date : 2018/2/27
 Fundamental Frequency : 2457 MHz Temp. / Humi. : 25deg_C/65RH
 Operation Band : BE CH 10 Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	73.02	-6.38	66.64	74	-7.36
2483.50	E	Average	56.83	-6.38	50.45	54	-3.55
2493.40	S	Peak	66.59	-6.33	60.26	74	-13.74
2493.40	S	Average	49.48	-6.33	43.15	54	-10.85

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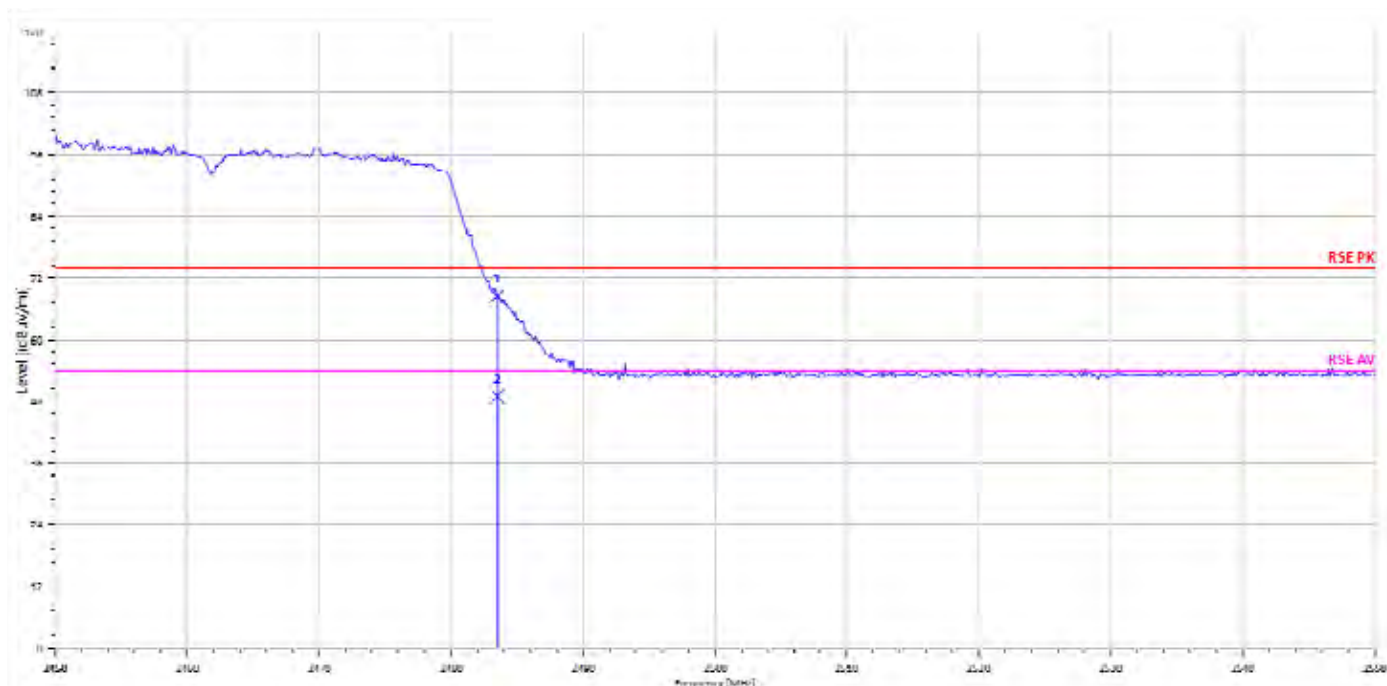
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Operation Mode :	802.11n40	Test Date :	2018/2/27
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH 11	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	74.87	-6.38	68.48	74	-5.52
2483.50	E	Average	55.31	-6.38	48.92	54	-5.08

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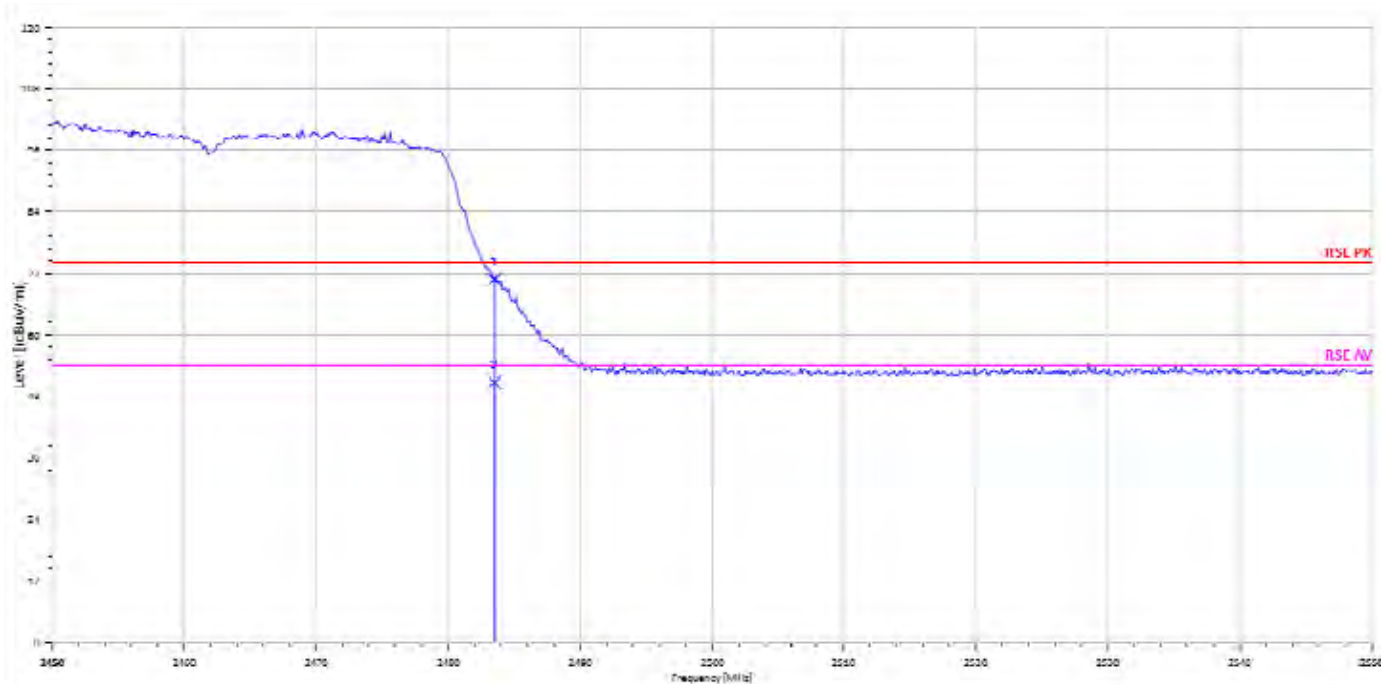
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Operation Mode :	802.11n40	Test Date :	2018/2/27
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	BE CH 11	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	77.11	-6.38	70.72	74	-3.28
2483.50	E	Average	57.02	-6.38	50.63	54	-3.37

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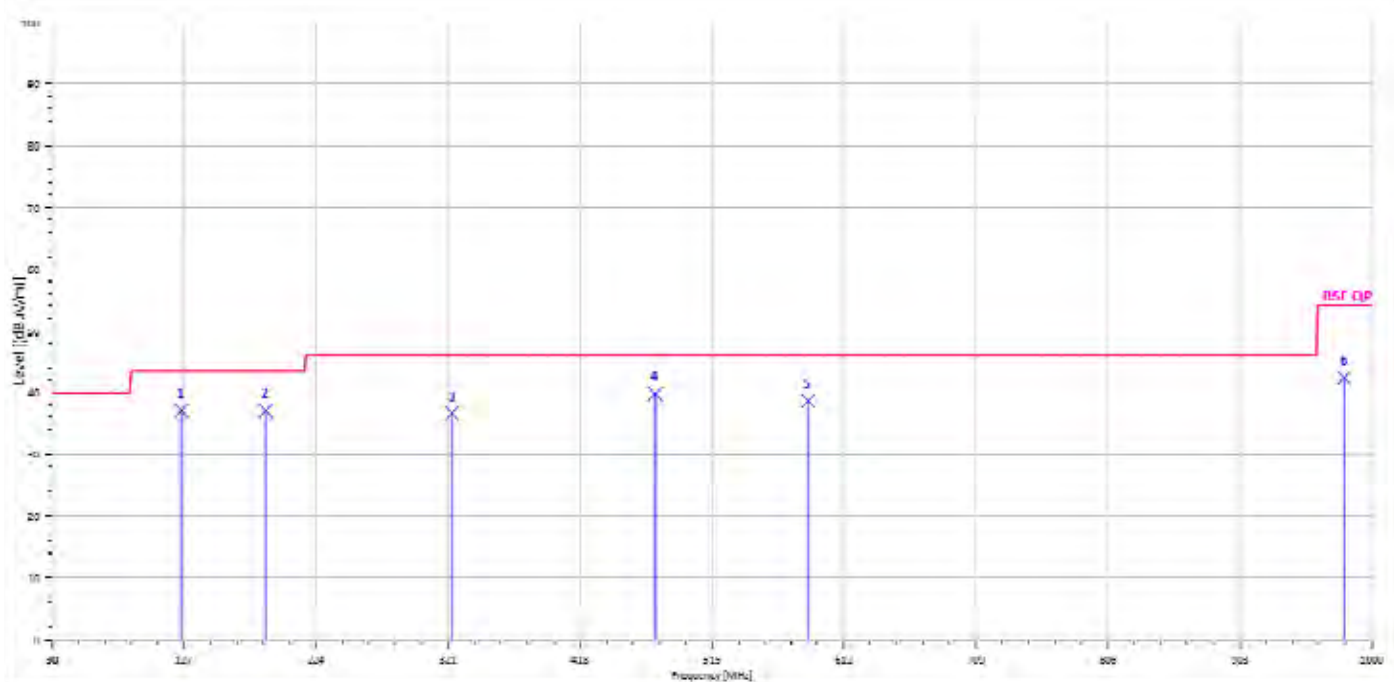
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Below 1GHz Worst-Case Data:

Radiated Spurious Emission Measurement Result (802.11 g)

Operation Mode :	802.11g	Test Date :	2018/5/22
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
125.06	S	Peak	55.22	-18.16	37.06	43.5	-6.44
187.14	S	Peak	55.56	-18.53	37.03	43.5	-6.47
323.91	S	Peak	51.23	-14.62	36.61	46	-9.39
473.29	S	Peak	50.91	-11.10	39.82	46	-6.18
585.81	S	Peak	47.47	-8.81	38.66	46	-7.34
979.63	S	Peak	46.46	-4.06	42.41	54	-11.59

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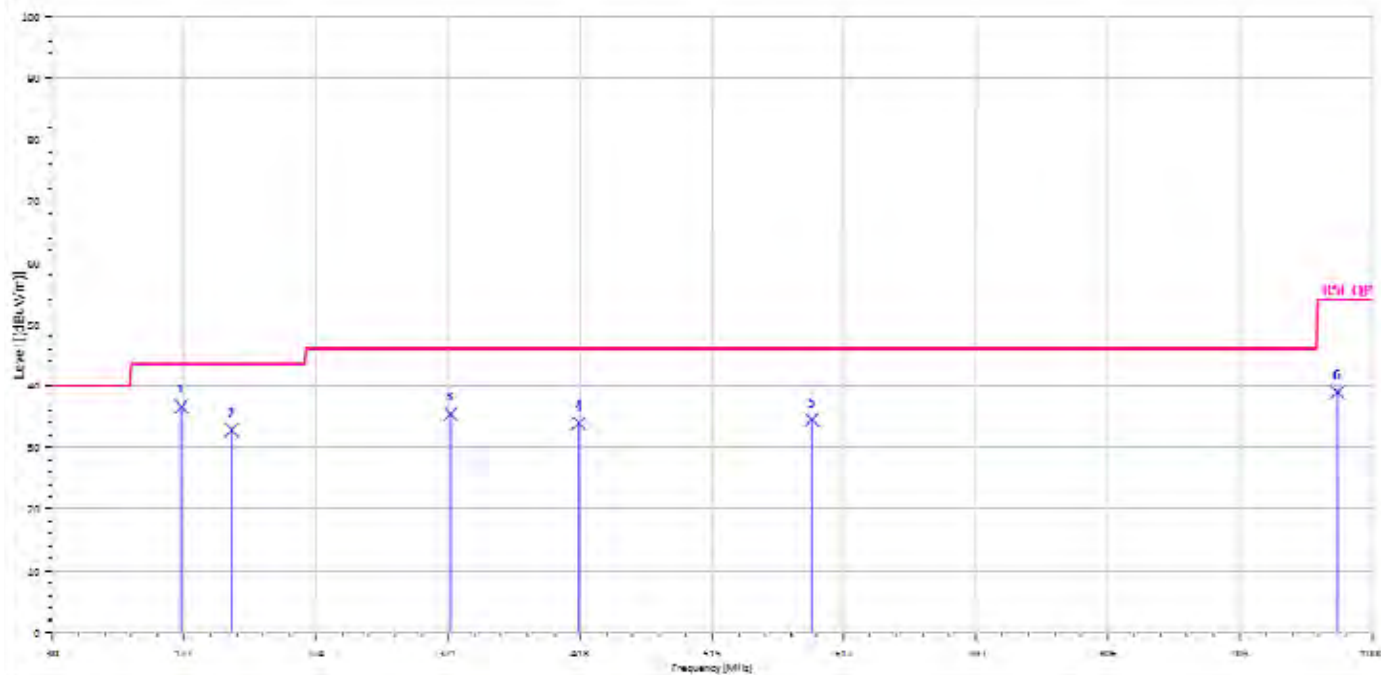
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Operation Mode : 802.11g Test Date : 2018/5/22
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 25deg_C/65RH
 Operation Band : Tx CH Low Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
125.06	S	Peak	54.82	-18.16	36.66	43.5	-6.84
161.92	S	Peak	48.52	-15.71	32.81	43.5	-10.69
322.94	S	Peak	50.11	-14.64	35.47	46	-10.53
417.03	S	Peak	45.95	-12.01	33.94	46	-12.06
588.72	S	Peak	43.30	-8.77	34.53	46	-11.47
974.78	S	Peak	42.99	-4.06	38.93	54	-15.07

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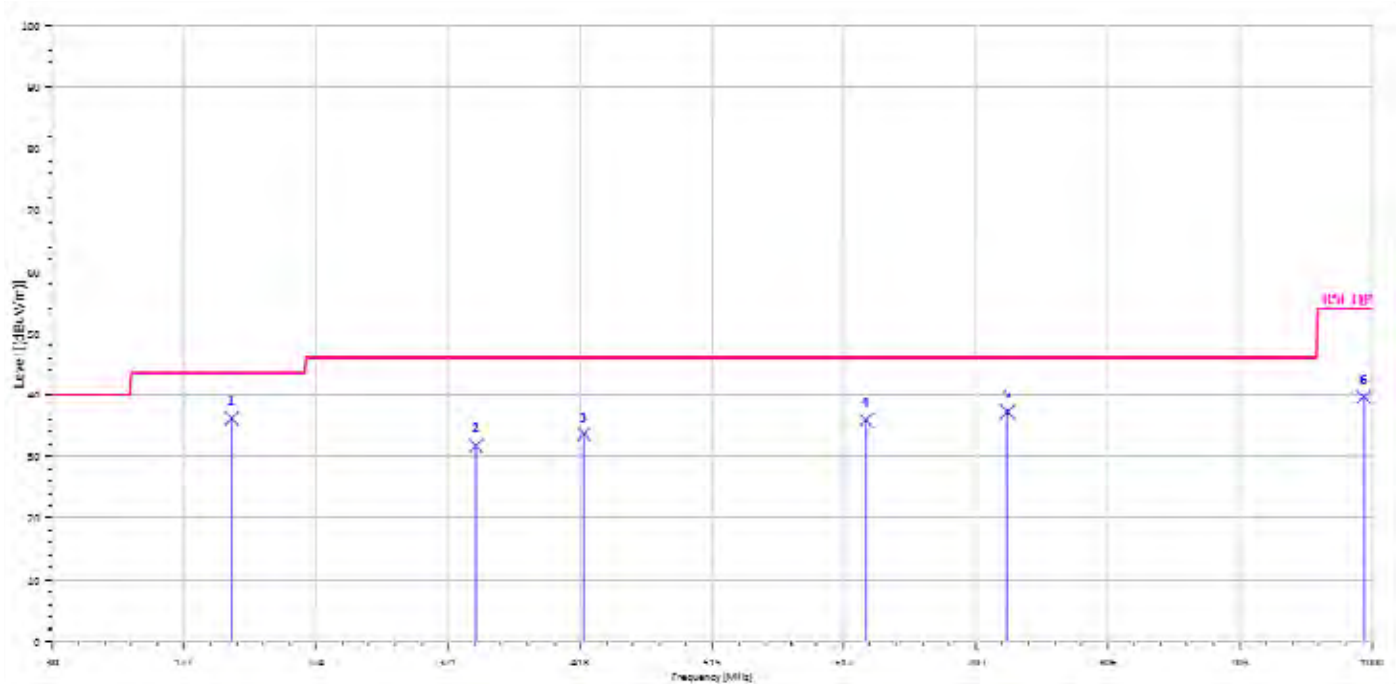
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Operation Mode : 802.11g Test Date : 2018/5/22
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 25deg_C/65RH
 Operation Band : Tx CH Mid Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
161.92	S	Peak	51.94	-15.71	36.22	43.5	-7.28
341.37	S	Peak	46.07	-14.32	31.75	46	-14.25
420.91	S	Peak	45.66	-12.09	33.57	46	-12.43
628.49	S	Peak	44.78	-8.86	35.92	46	-10.08
732.28	S	Peak	44.93	-7.68	37.25	46	-8.75
994.18	S	Peak	43.58	-3.93	39.65	54	-14.35

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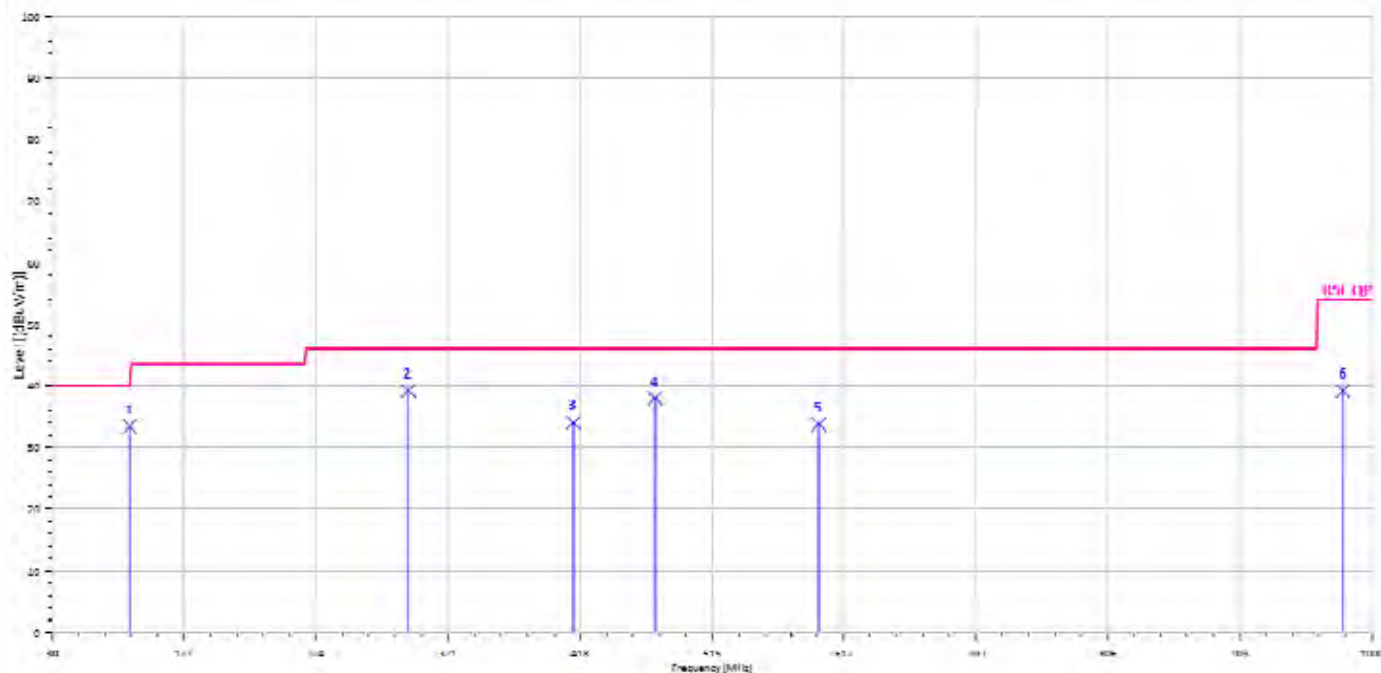
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 Fundamental Frequency : 2437 MHz Temp. / Humi. : 25deg_C/65RH
 Operation Band : Tx CH Mid Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
87.23	S	Peak	55.74	-22.32	33.41	40	-6.59
291.90	S	Peak	54.67	-15.45	39.22	46	-6.78
413.15	S	Peak	45.97	-11.98	34.00	46	-12.00
473.29	S	Peak	49.07	-11.10	37.97	46	-8.03
593.57	S	Peak	42.73	-8.97	33.76	46	-12.24
978.66	S	Peak	43.23	-4.06	39.17	54	-14.83

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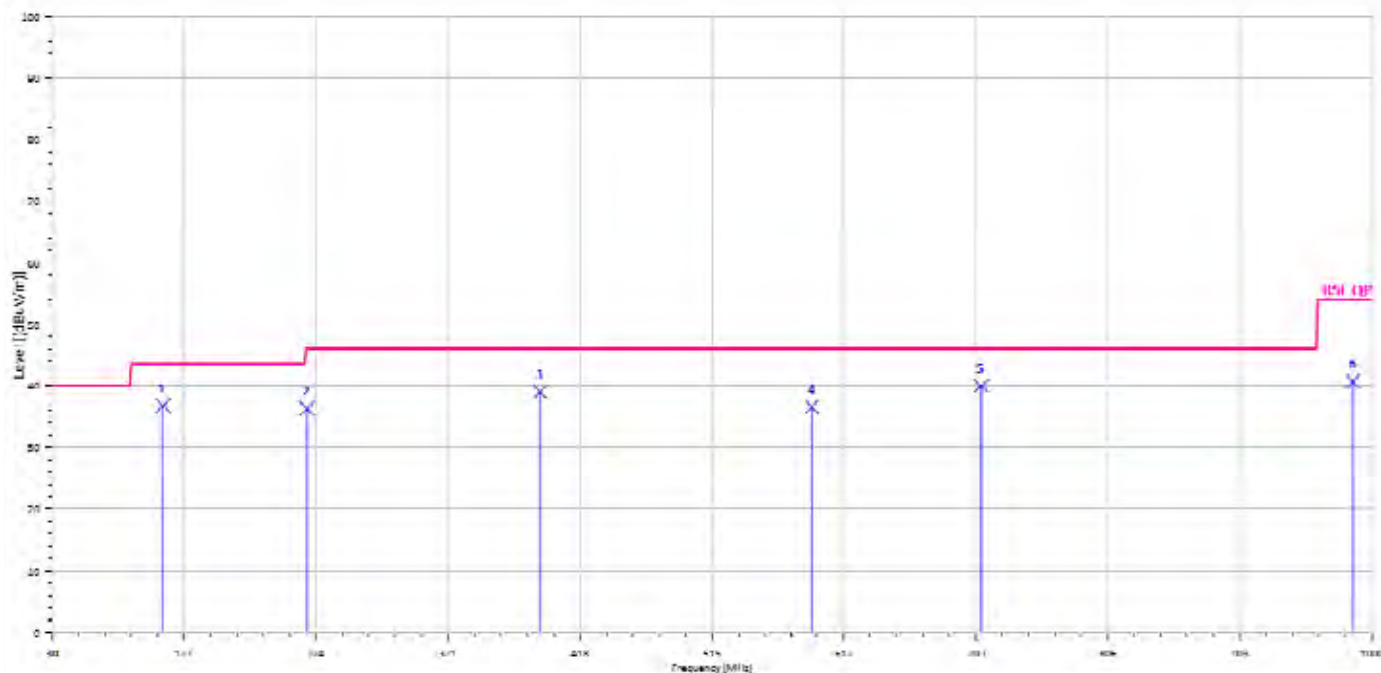
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 Operation Band : Tx CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
111.48	S	Peak	56.06	-19.29	36.77	43.5	-6.73
217.21	S	Peak	54.96	-18.63	36.33	46	-9.67
388.90	S	Peak	52.11	-13.13	38.98	46	-7.02
588.72	S	Peak	45.35	-8.77	36.58	46	-9.42
712.88	S	Peak	47.37	-7.38	39.99	46	-6.01
986.42	S	Peak	44.84	-4.08	40.76	54	-13.24

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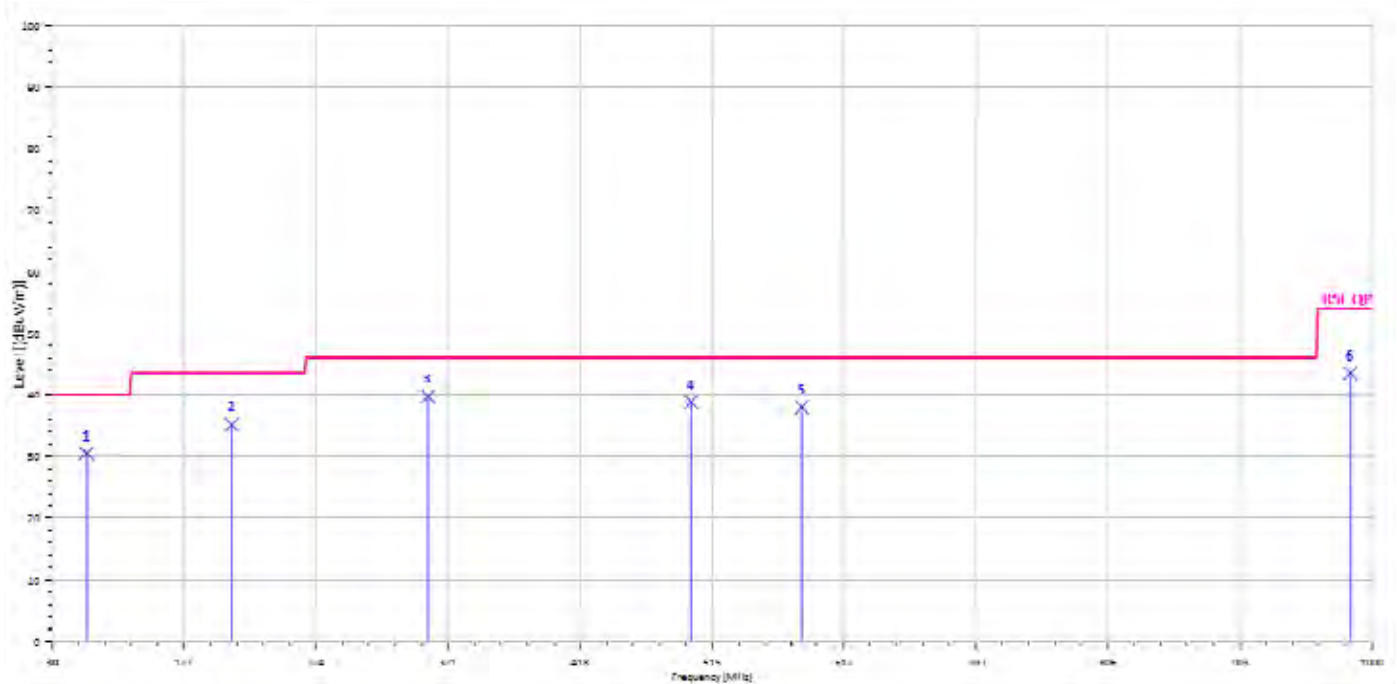
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Operation Mode : 802.11g Test Date : 2018/5/22
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 25deg_C/65RH
 Operation Band : Tx CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
55.22	S	Peak	48.16	-17.62	30.55	40	-9.45
161.92	S	Peak	50.86	-15.71	35.15	43.5	-8.35
306.45	S	Peak	54.93	-15.18	39.75	46	-6.25
499.48	S	Peak	50.24	-11.39	38.85	46	-7.15
580.96	S	Peak	46.87	-8.87	37.99	46	-8.01
984.48	S	Peak	47.58	-4.07	43.51	54	-10.49

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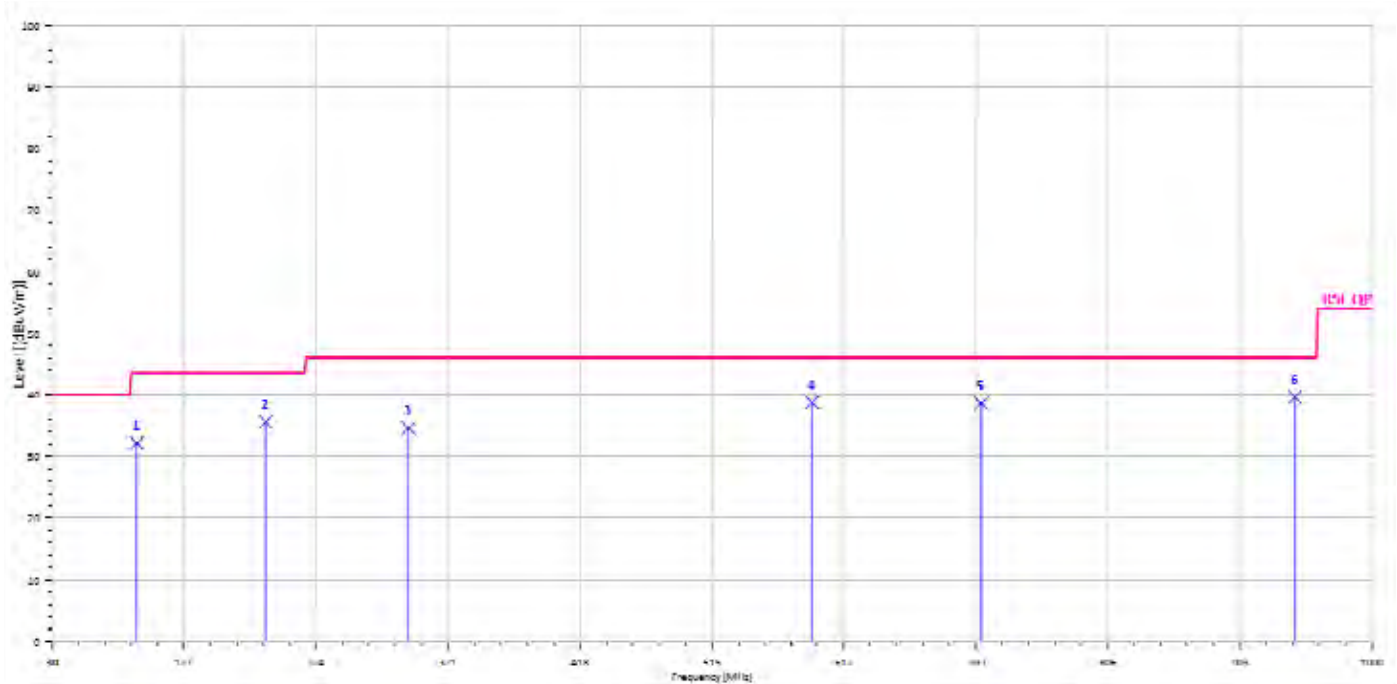
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Operation Mode : 802.11g Test Date : 2018/5/22
 Fundamental Frequency : 2467 MHz Temp. / Humi. : 25deg_C/65RH
 Operation Band : Tx CH 12 Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
92.29	S	Peak	54.68	-22.51	32.17	43.5	-11.33
187.14	S	Peak	54.16	-18.53	35.62	43.5	-7.88
291.90	S	Peak	50.03	-15.45	34.59	46	-11.41
588.72	S	Peak	47.53	-8.77	38.77	46	-7.23
712.88	S	Peak	45.97	-7.38	38.59	46	-7.41
943.74	S	Peak	44.25	-4.58	39.66	46	-6.34

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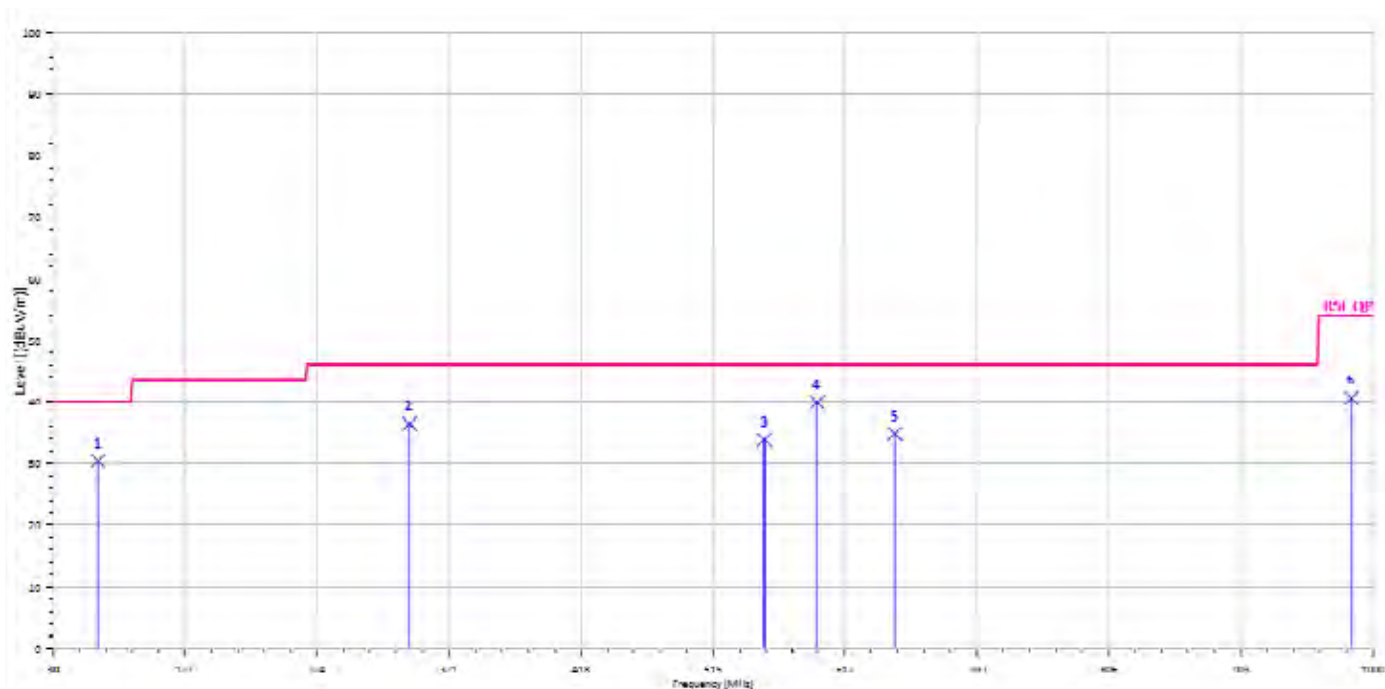
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 Operation Band : Tx CH 12 Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
62.98	S	Peak	48.80	-18.39	30.42	40	-9.58
291.90	S	Peak	51.91	-15.45	36.46	46	-9.54
552.83	S	Peak	44.27	-10.43	33.84	46	-12.16
591.63	S	Peak	48.77	-8.85	39.92	46	-6.08
648.86	S	Peak	42.78	-7.92	34.86	46	-11.14
984.48	S	Peak	44.71	-4.07	40.64	54	-13.36

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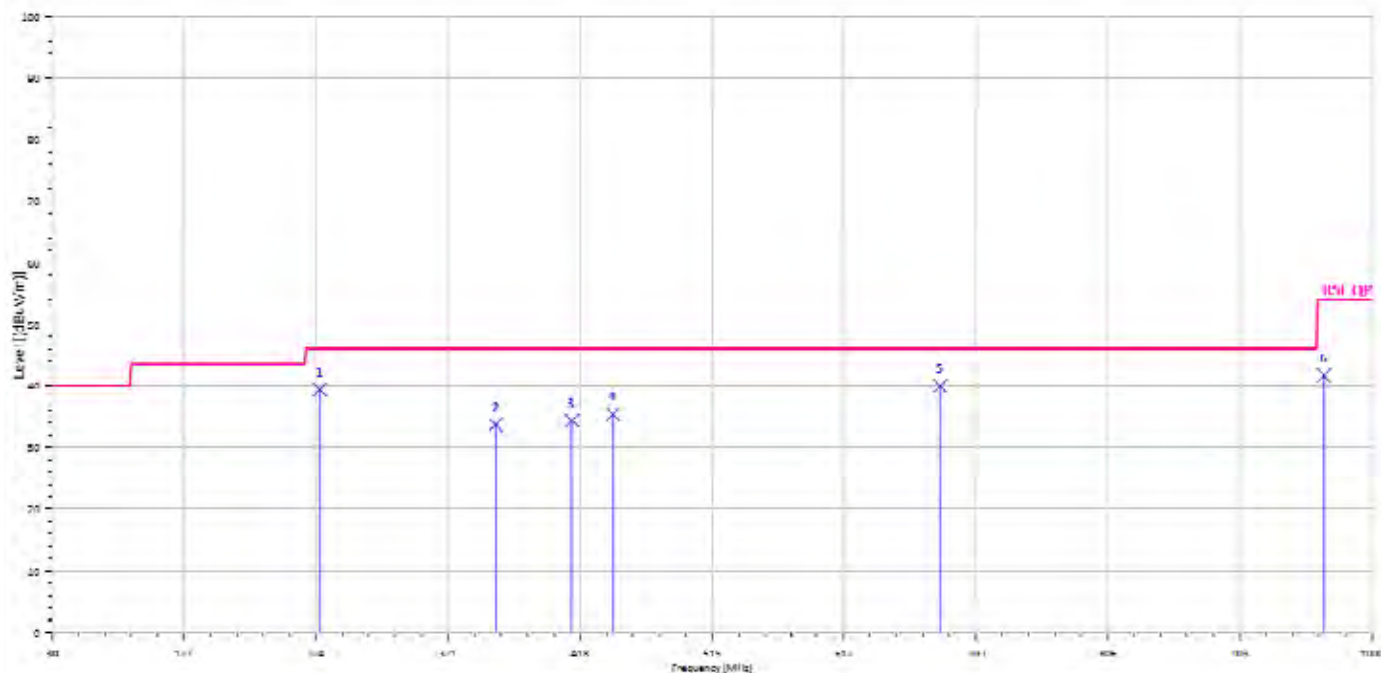
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Operation Mode : 802.11g Test Date : 2018/5/22
 Fundamental Frequency : 2472 MHz Temp. / Humi. : 25deg_C/65RH
 Operation Band : Tx CH 13 Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
226.91	S	Peak	57.40	-18.01	39.40	46	-6.60
355.92	S	Peak	47.77	-14.12	33.65	46	-12.35
412.18	S	Peak	46.33	-11.97	34.36	46	-11.64
442.25	S	Peak	47.84	-12.41	35.43	46	-10.57
682.81	S	Peak	48.41	-8.44	39.97	46	-6.03
965.08	S	Peak	45.96	-4.26	41.70	54	-12.30

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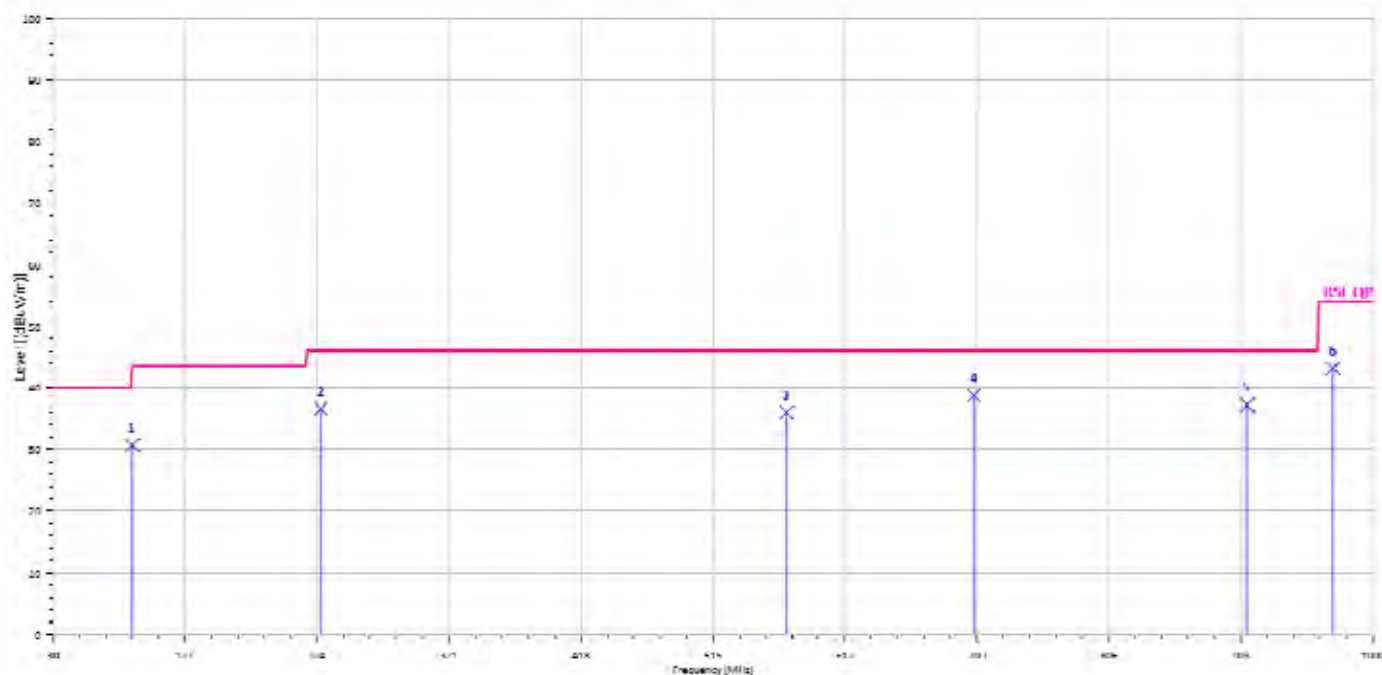
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Operation Mode : 802.11g Test Date : 2018/5/22
 Fundamental Frequency : 2472 MHz Temp. / Humi. : 25deg_C/65RH
 Operation Band : Tx CH 13 Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
88.20	S	Peak	53.19	-22.49	30.70	43.5	-12.80
226.91	S	Peak	54.63	-18.01	36.62	46	-9.38
569.32	S	Peak	45.73	-9.68	36.05	46	-9.95
707.06	S	Peak	46.10	-7.35	38.75	46	-7.25
907.85	S	Peak	42.48	-5.24	37.23	46	-8.77
970.90	S	Peak	47.25	-4.06	43.19	54	-10.81

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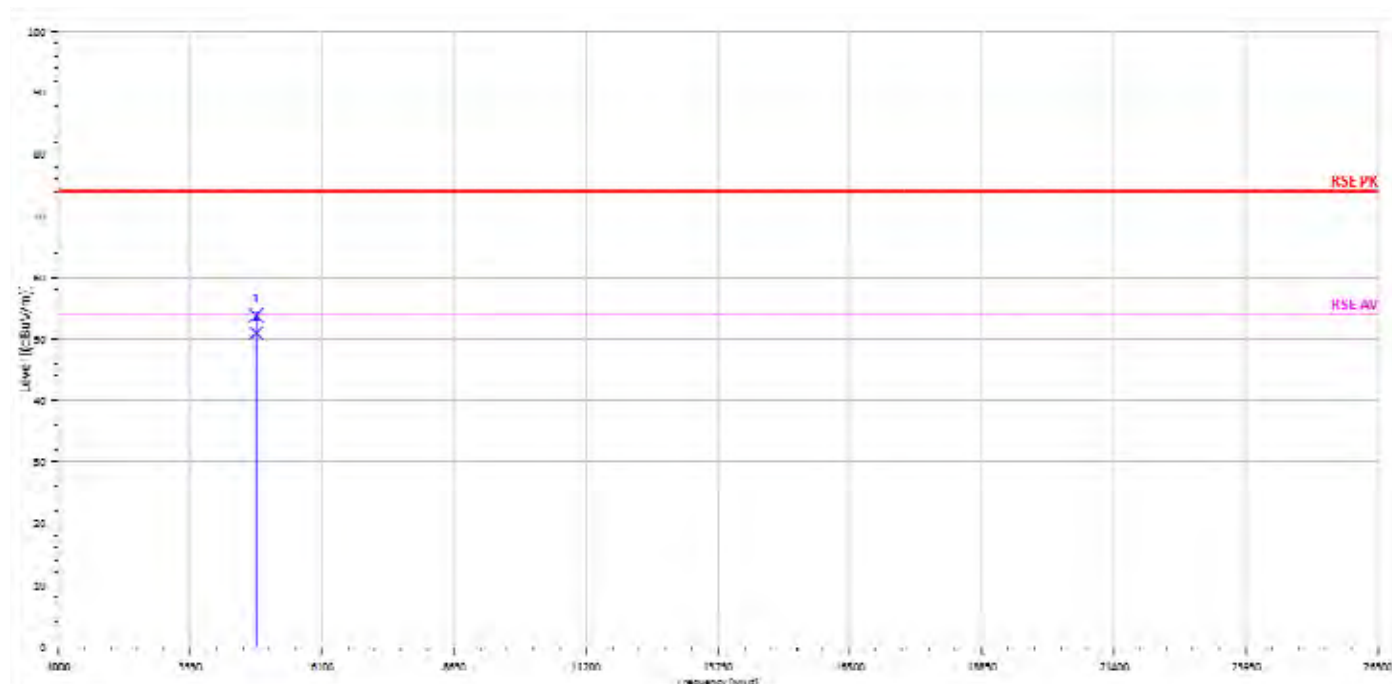
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Above 1GHz Data:

Radiated Spurious Emission Measurement Result (802.11 b)

Operation Mode :	802.11b	Test Date :	2018/5/22
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	H	Peak	54.88	-1.04	53.84	74	-20.16
4824.00	H	Average	51.95	-1.04	50.91	54	-3.09

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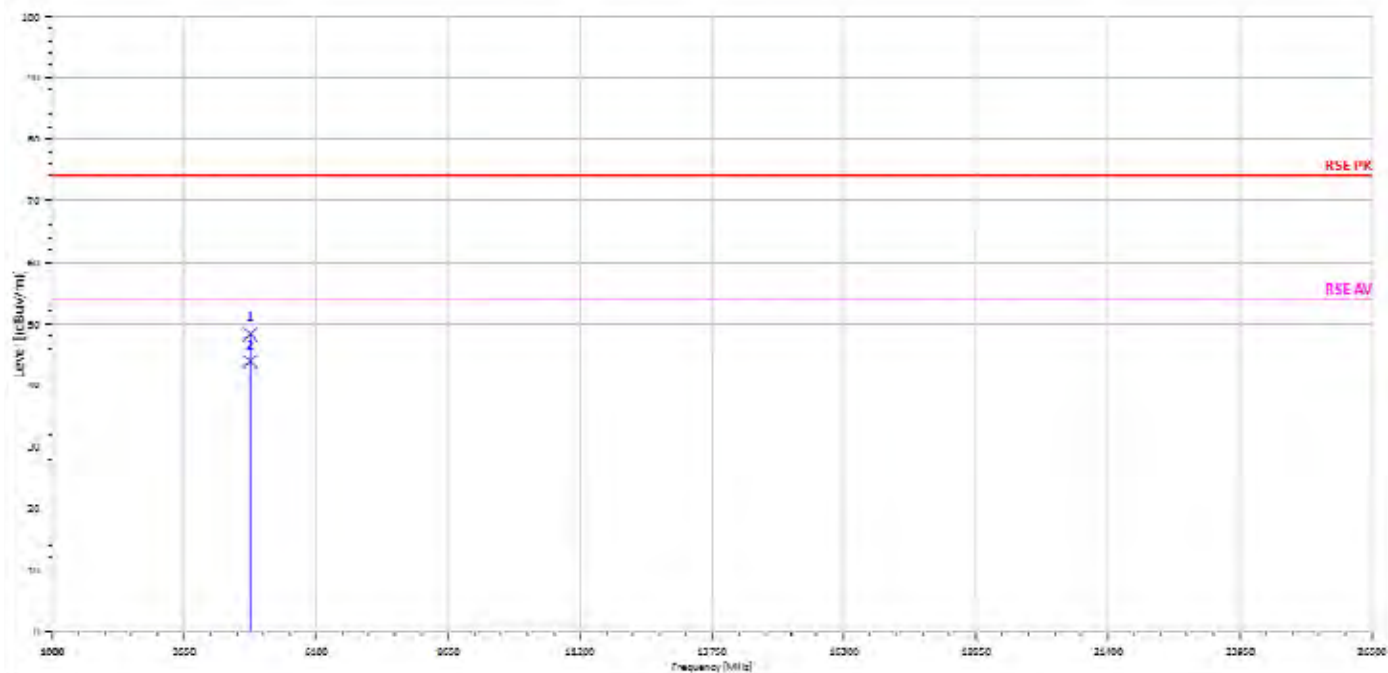
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Operation Mode : 802.11b Test Date : 2018/5/22
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 25deg_C/65RH
 Operation Band : Tx CH Low Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	H	Peak	49.28	-1.04	48.24	74	-25.76
4824.00	H	Average	44.86	-1.04	43.82	54	-10.18

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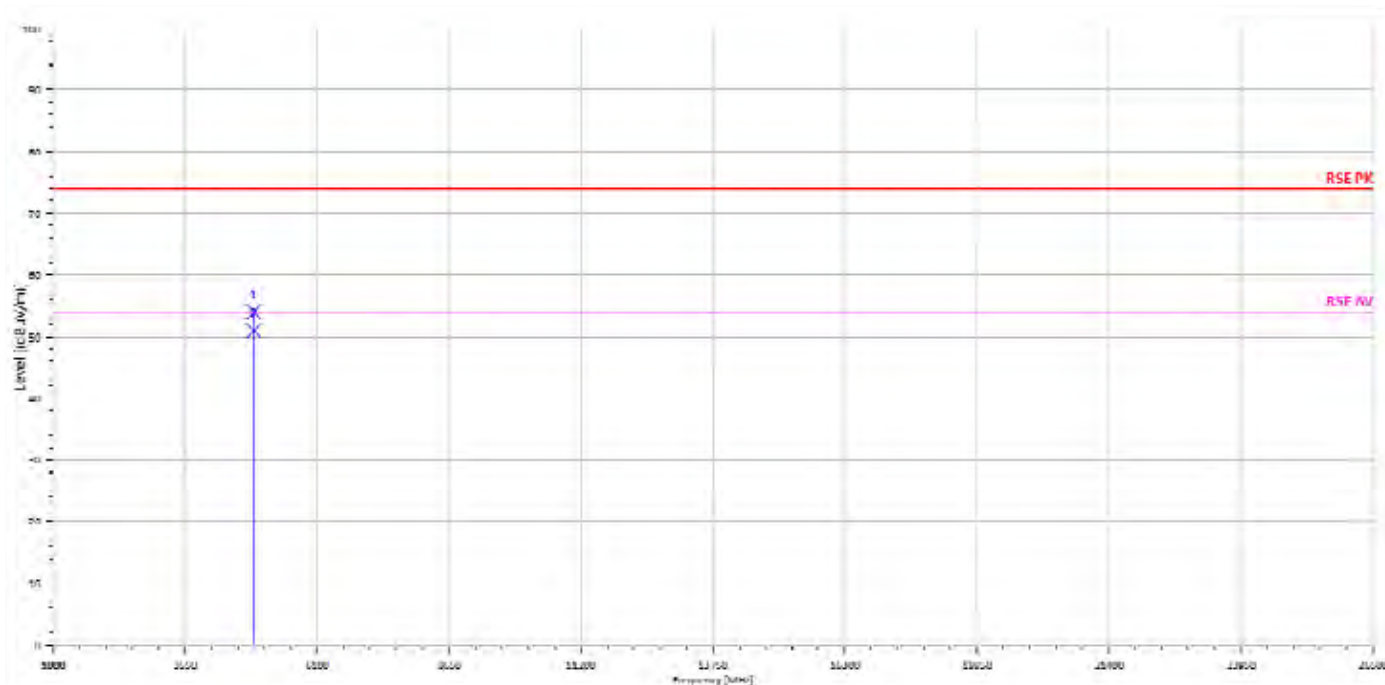
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Operation Mode :	802.11b	Test Date :	2018/5/22
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	H	Peak	54.71	-0.75	53.96	74	-20.04
4874.00	H	Average	51.66	-0.75	50.91	54	-3.09

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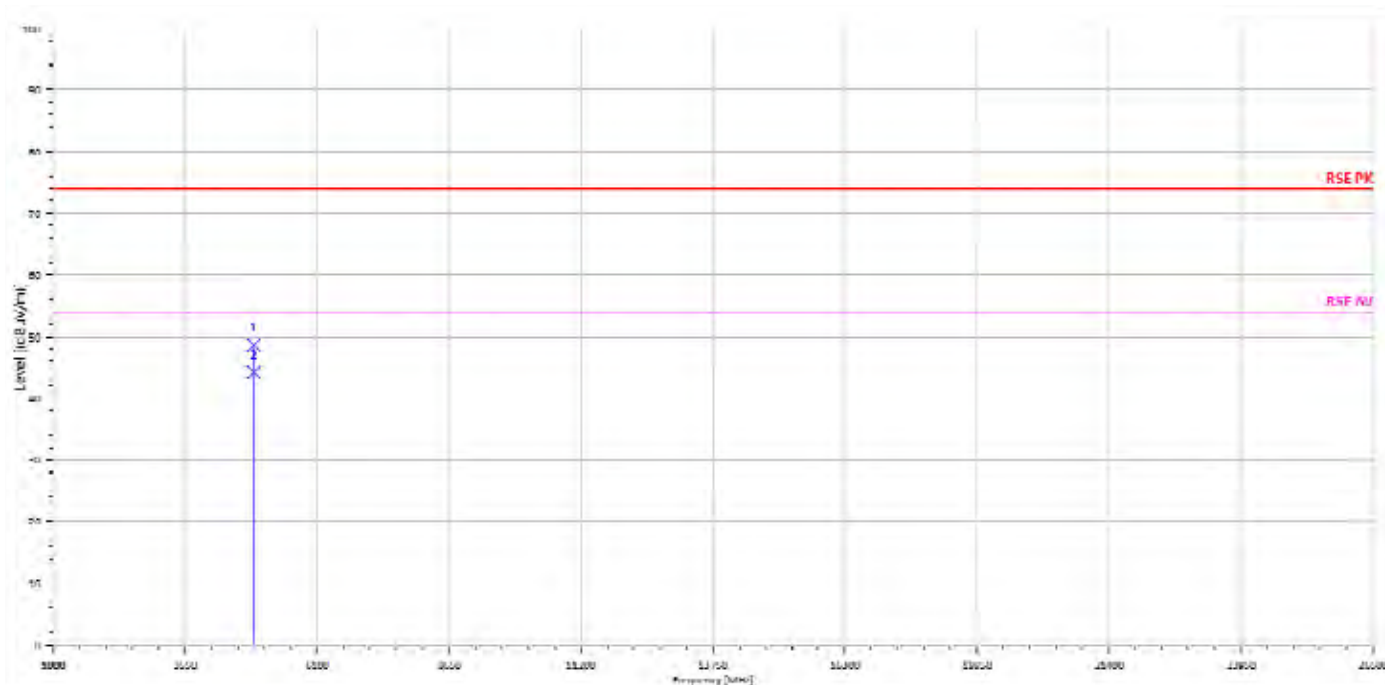
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Operation Mode :	802.11b	Test Date :	2018/5/22
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	H	Peak	49.37	-0.75	48.62	74	-25.38
4874.00	H	Average	44.94	-0.75	44.19	54	-9.81

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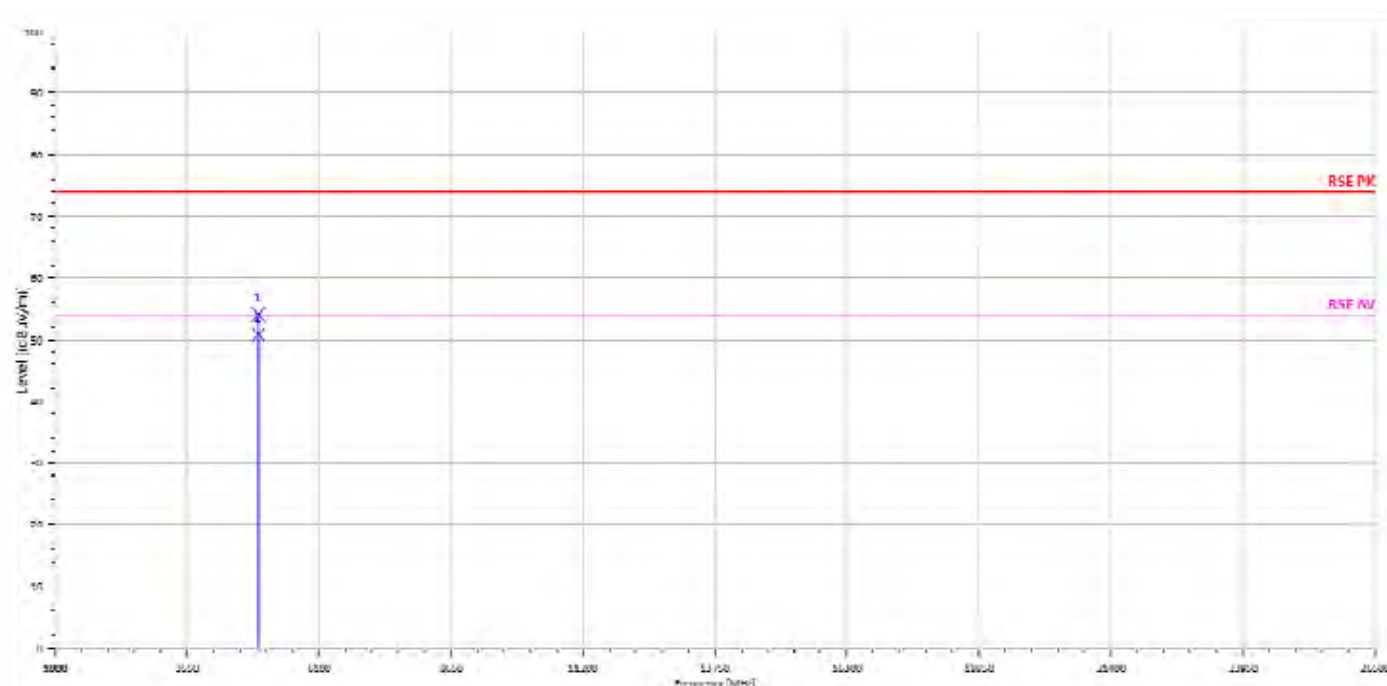
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Operation Mode :	802.11b	Test Date :	2018/5/22
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum 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	54.65	-0.62	54.03	74	-19.97
4924.00	H	Average	51.38	-0.62	50.76	54	-3.24

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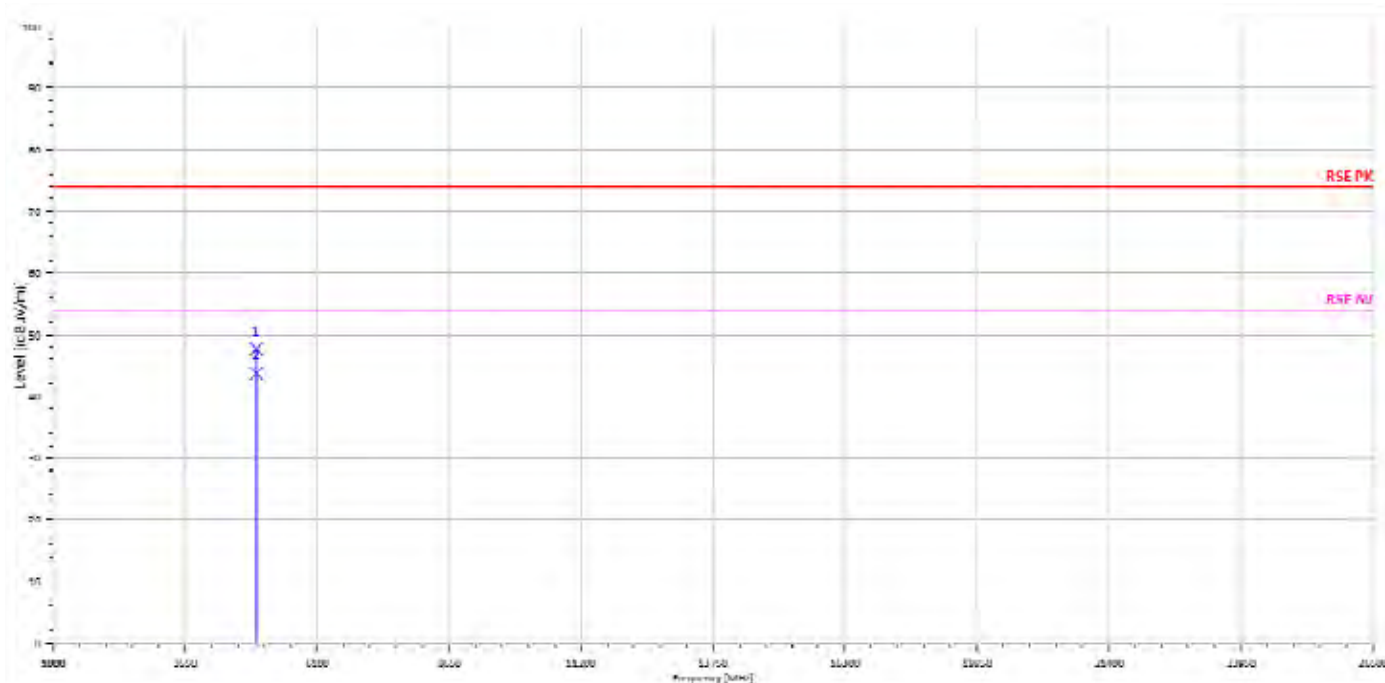
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Operation Mode :	802.11b	Test Date :	2018/5/22
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum 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	48.28	-0.62	47.66	74	-26.34
4924.00	H	Average	44.29	-0.62	43.67	54	-10.33

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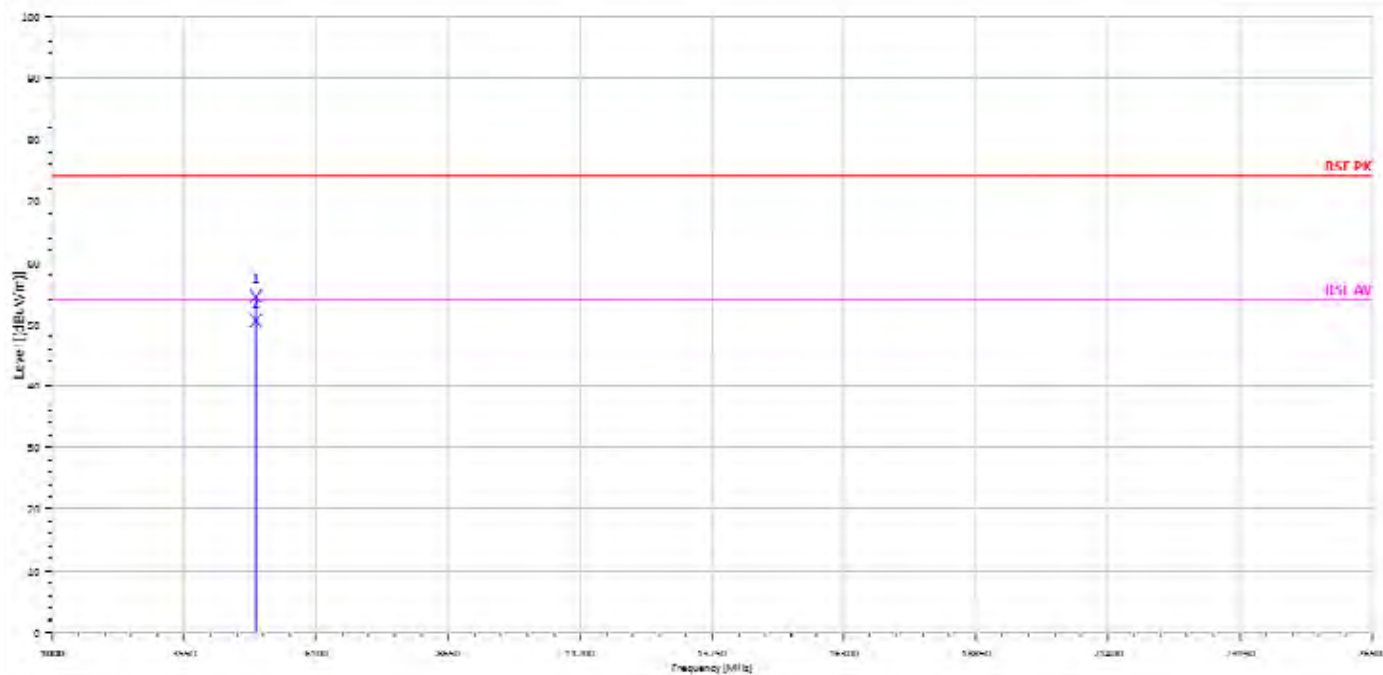
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Operation Mode :	802.11b	Test Date :	2018/5/22
Fundamental Frequency :	2467 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH 12	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4934.00	H	Peak	55.20	-0.63	54.57	74	-19.43
4934.00	H	Average	51.28	-0.63	50.65	54	-3.35

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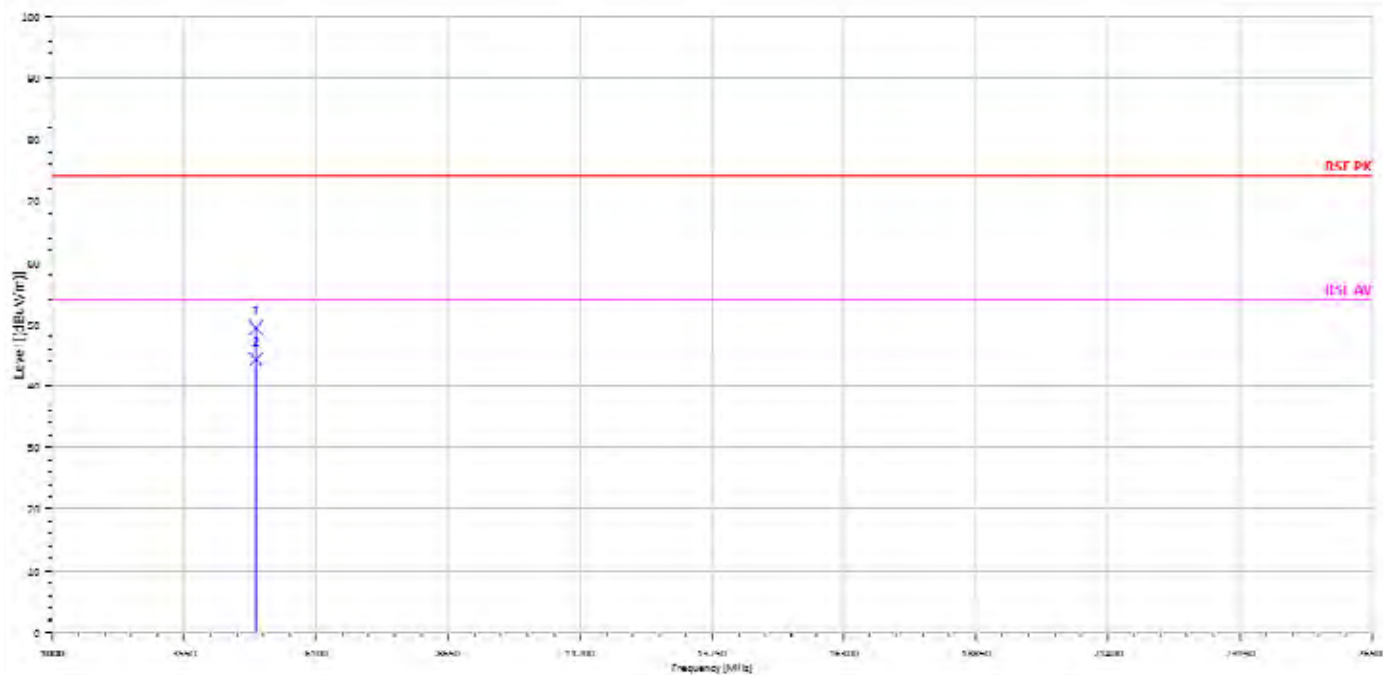
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Operation Mode :	802.11b	Test Date :	2018/5/22
Fundamental Frequency :	2467 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH 12	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4934.00	H	Peak	50.10	-0.63	49.47	74	-24.53
4934.00	H	Average	44.96	-0.63	44.33	54	-9.67

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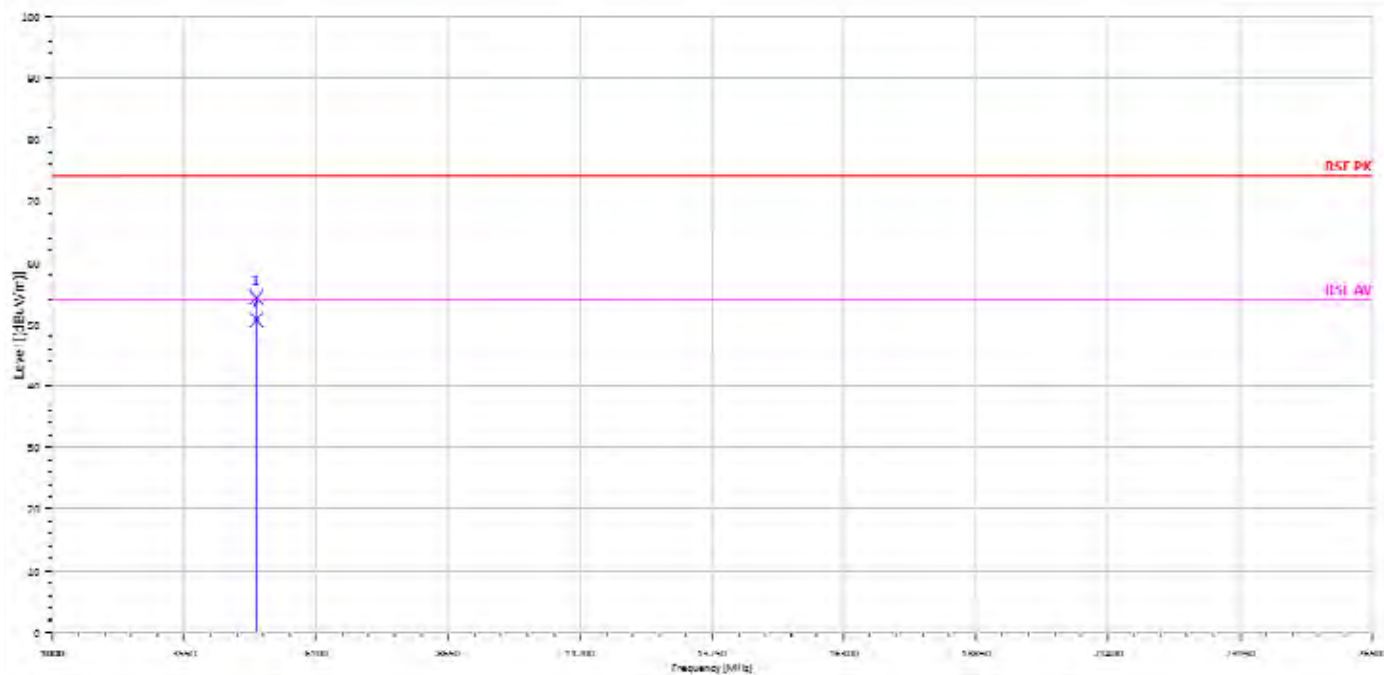
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Operation Mode :	802.11b	Test Date :	2018/5/22
Fundamental Frequency :	2472 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH 13	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4944.00	H	Peak	55.01	-0.64	54.37	74	-19.63
4944.00	H	Average	51.37	-0.64	50.73	54	-3.27

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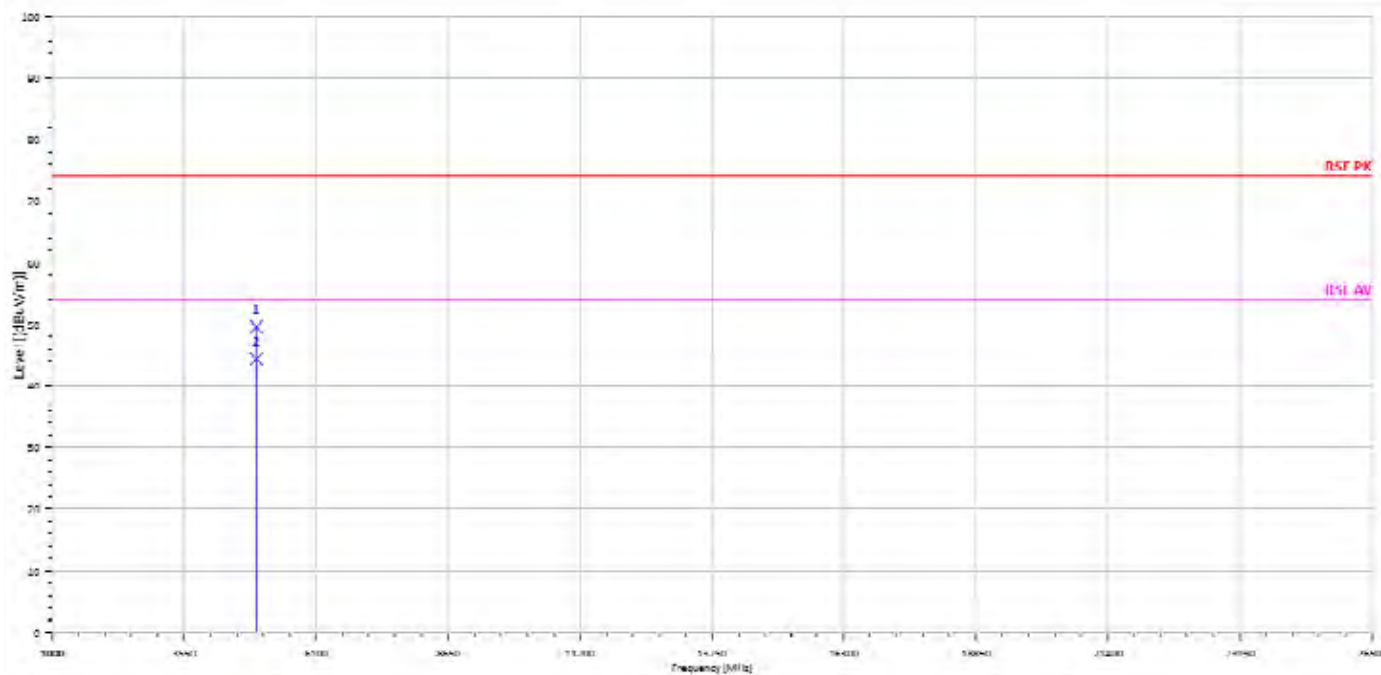
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Operation Mode :	802.11b	Test Date :	2018/5/22
Fundamental Frequency :	2472 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH 13	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4944.00	H	Peak	50.26	-0.64	49.62	74	-24.38
4944.00	H	Average	45.02	-0.64	44.38	54	-9.62

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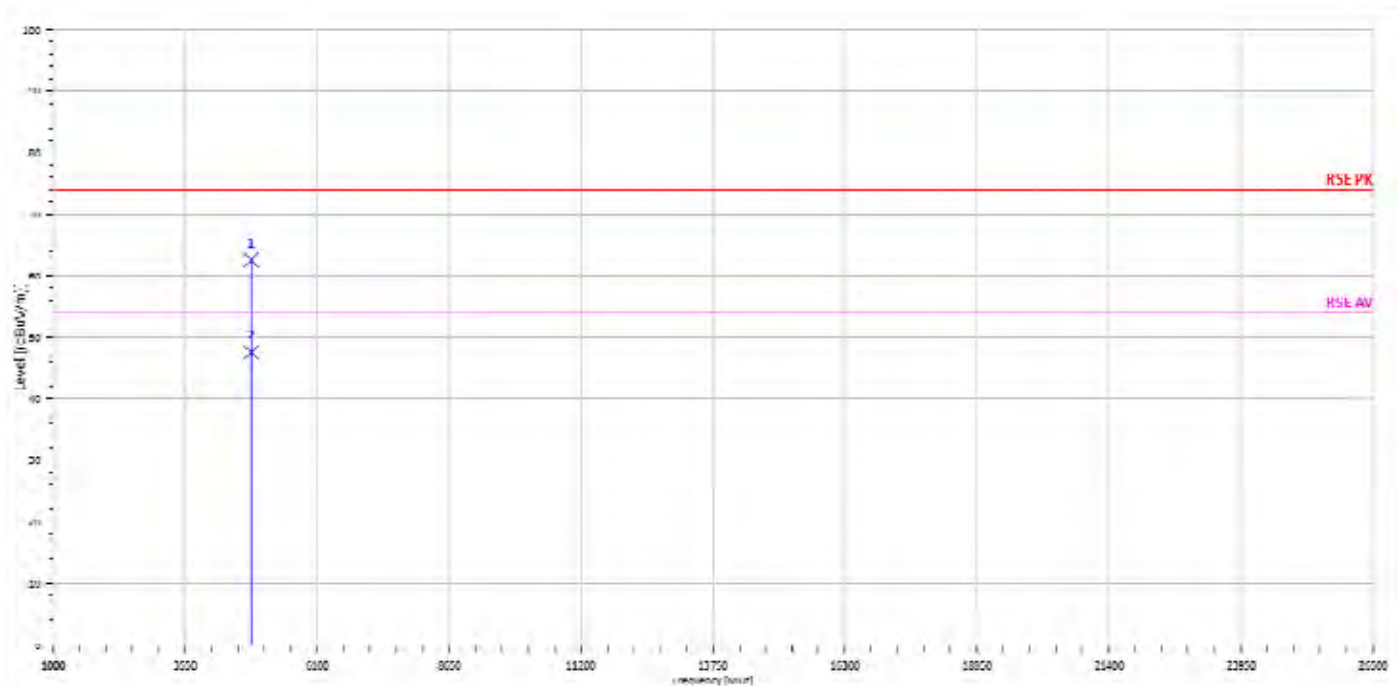
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Radiated Spurious Emission Measurement Result (802.11 g)

Operation Mode :	802.11g	Test Date :	2018/5/22
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	H	Peak	63.57	-1.04	62.53	74	-11.47
4824.00	H	Average	48.59	-1.04	47.55	54	-6.45

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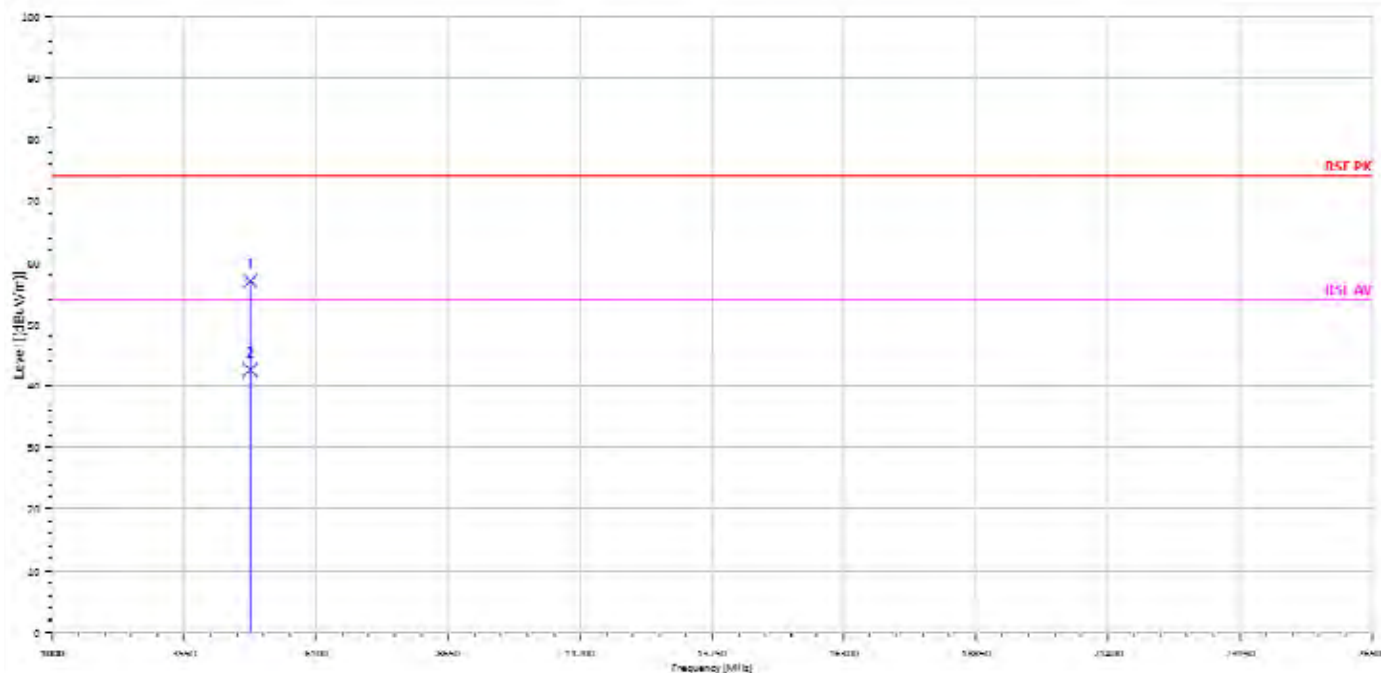
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Operation Mode : 802.11g Test Date : 2018/5/22
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 25deg_C/65RH
 Operation Band : Tx CH Low Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	H	Peak	58.08	-1.04	57.04	74	-16.96
4824.00	H	Average	43.60	-1.04	42.56	54	-11.44

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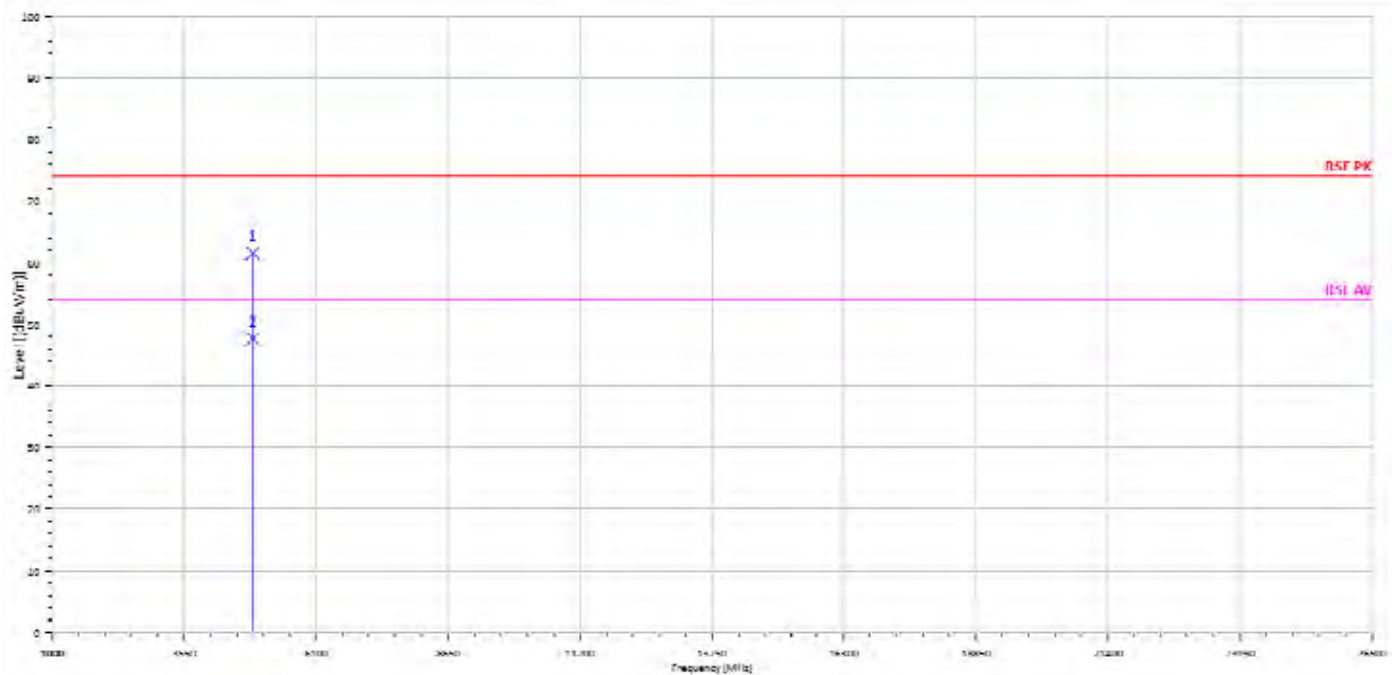
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Operation Mode : 802.11g Test Date : 2018/5/22
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 25deg_C/65RH
 Operation Band : Tx CH Mid Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	H	Peak	62.29	-0.75	61.55	74	-12.45
4874.00	H	Average	48.37	-0.75	47.62	54	-6.38

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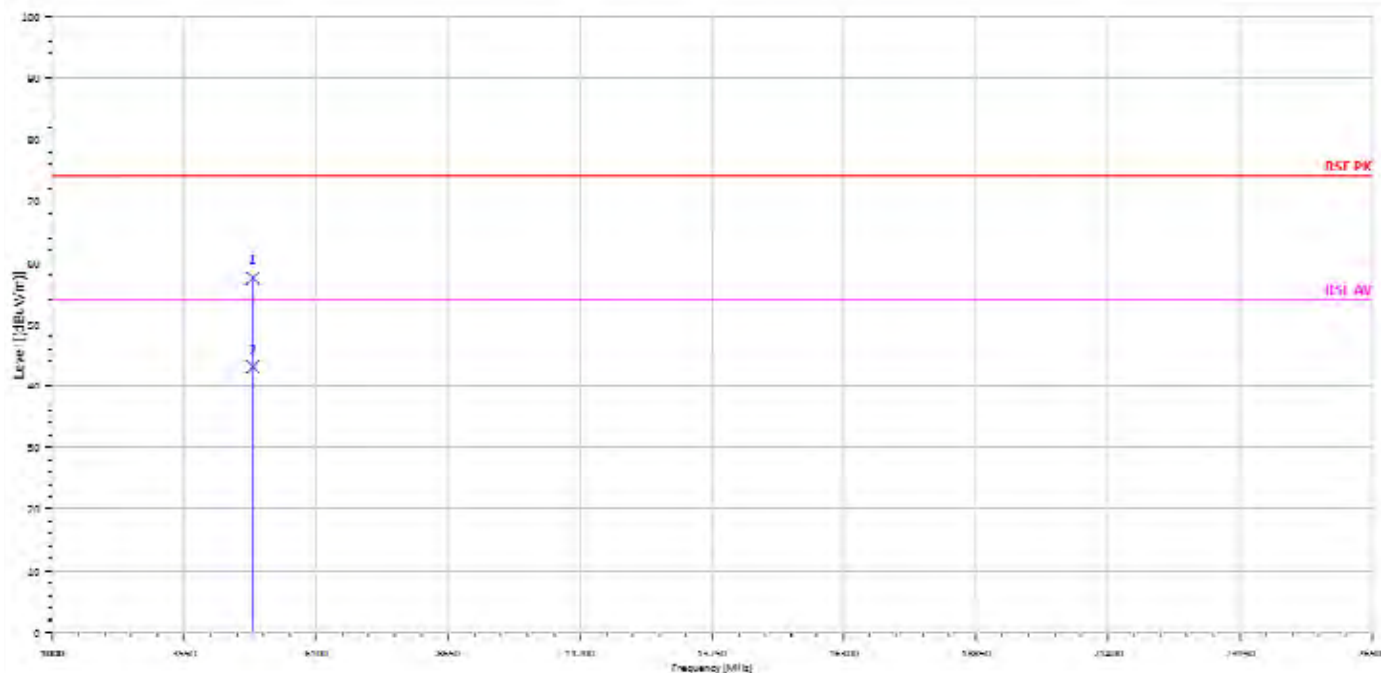
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Operation Mode :	802.11g	Test Date :	2018/5/22
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	H	Peak	58.32	-0.75	57.57	74	-16.43
4874.00	H	Average	43.81	-0.75	43.06	54	-10.94

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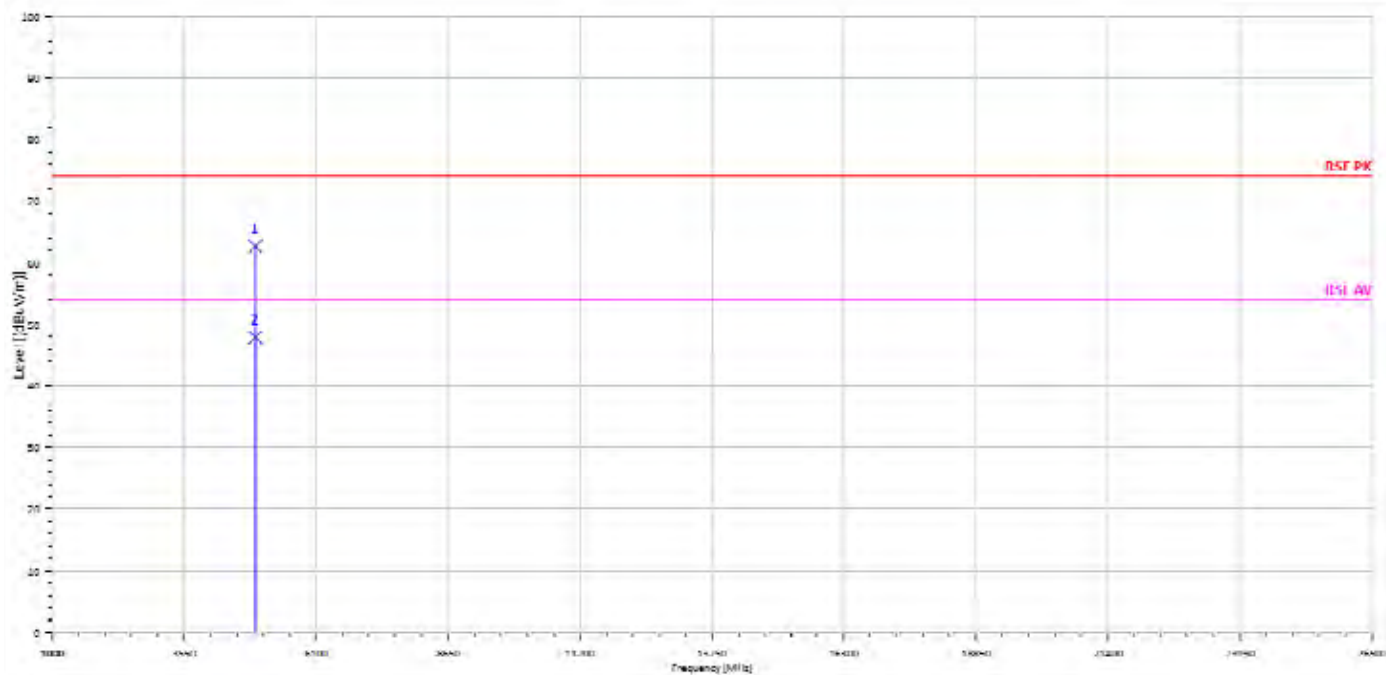
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Operation Mode :	802.11g	Test Date :	2018/5/22
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum 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	63.32	-0.62	62.70	74	-11.30
4924.00	H	Average	48.51	-0.62	47.89	54	-6.11

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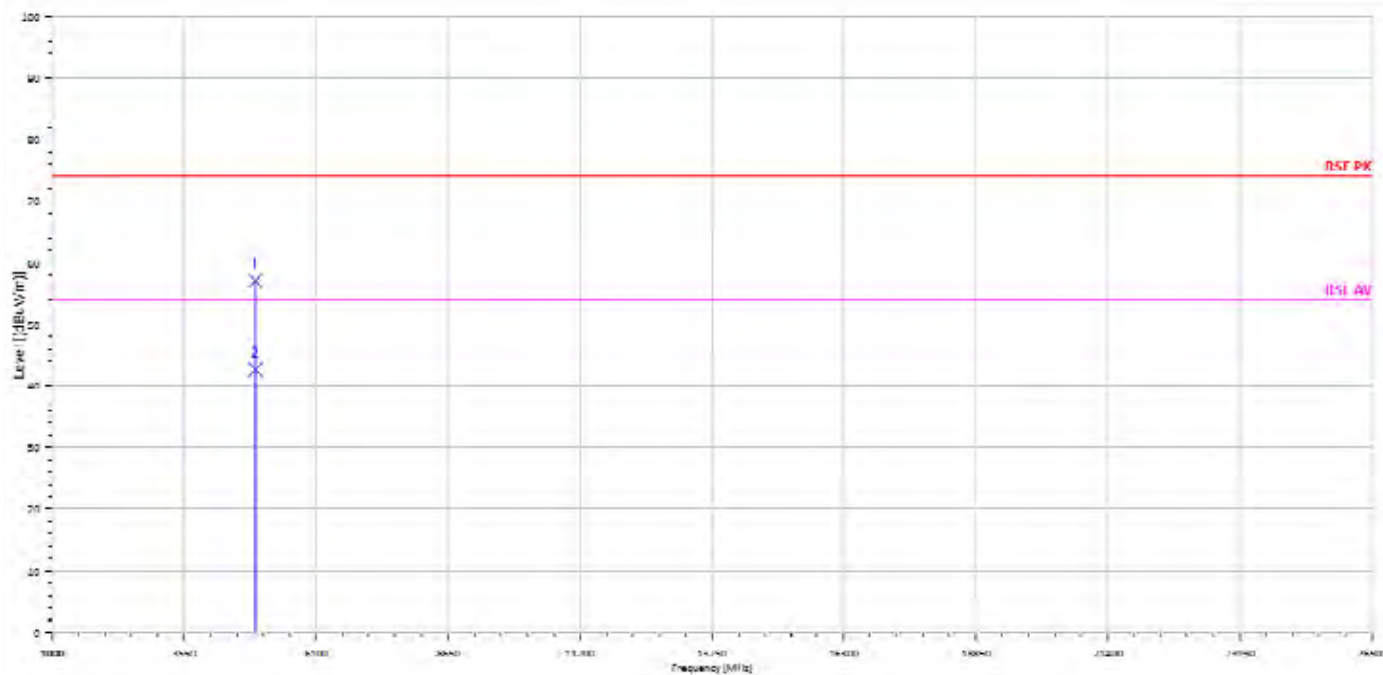
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Operation Mode :	802.11g	Test Date :	2018/5/22
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum 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	57.69	-0.62	57.07	74	-16.93
4924.00	H	Average	43.22	-0.62	42.59	54	-11.41

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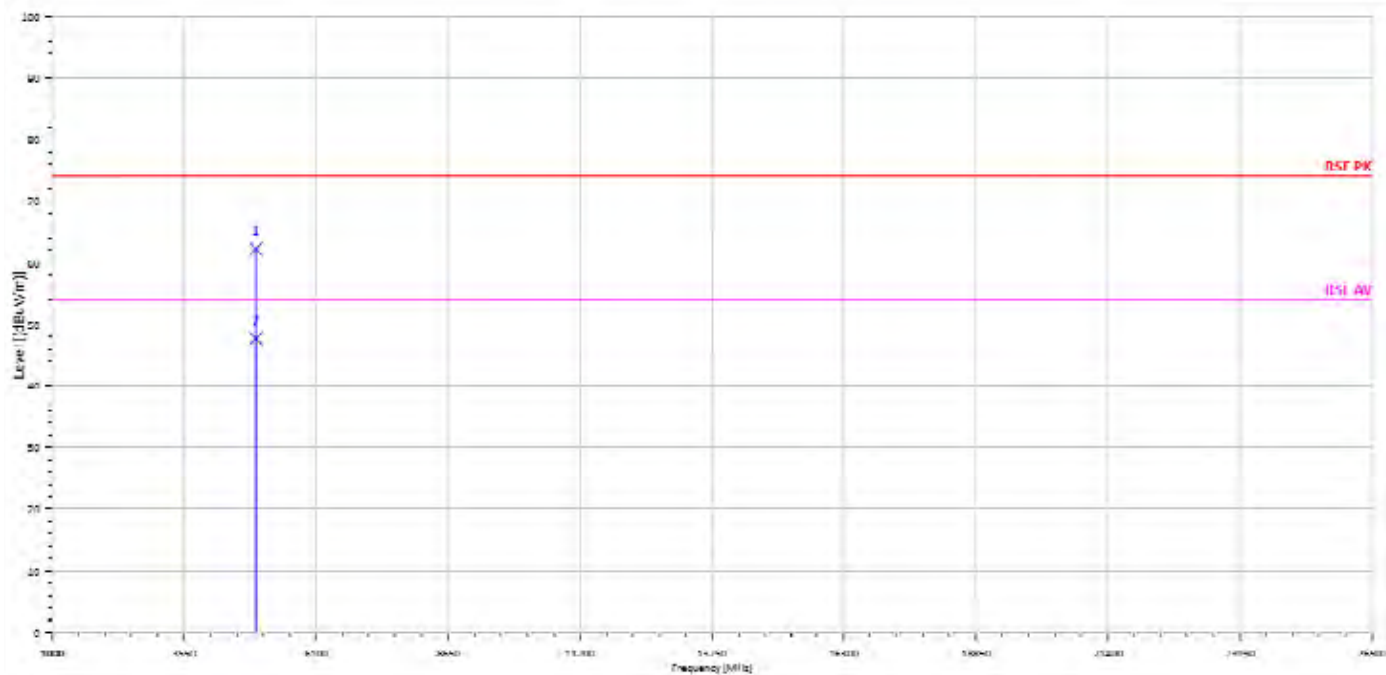
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Operation Mode :	802.11g	Test Date :	2018/5/22
Fundamental Frequency :	2467 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH 12	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4934.00	H	Peak	62.88	-0.63	62.25	74	-11.75
4934.00	H	Average	48.30	-0.63	47.67	54	-6.33

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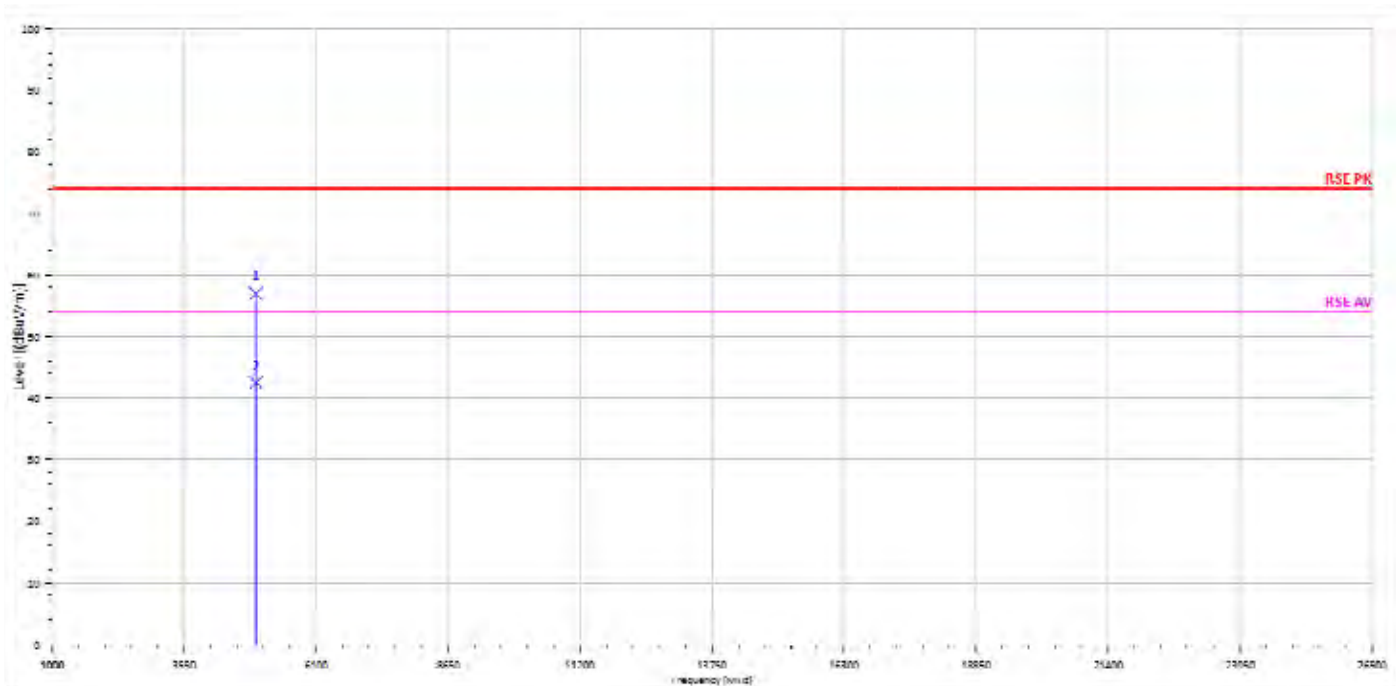
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Operation Mode :	802.11g	Test Date :	2018/5/22
Fundamental Frequency :	2467 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH 12	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4934.00	H	Peak	57.60	-0.63	56.96	74	-17.04
4934.00	H	Average	43.10	-0.63	42.47	54	-11.53

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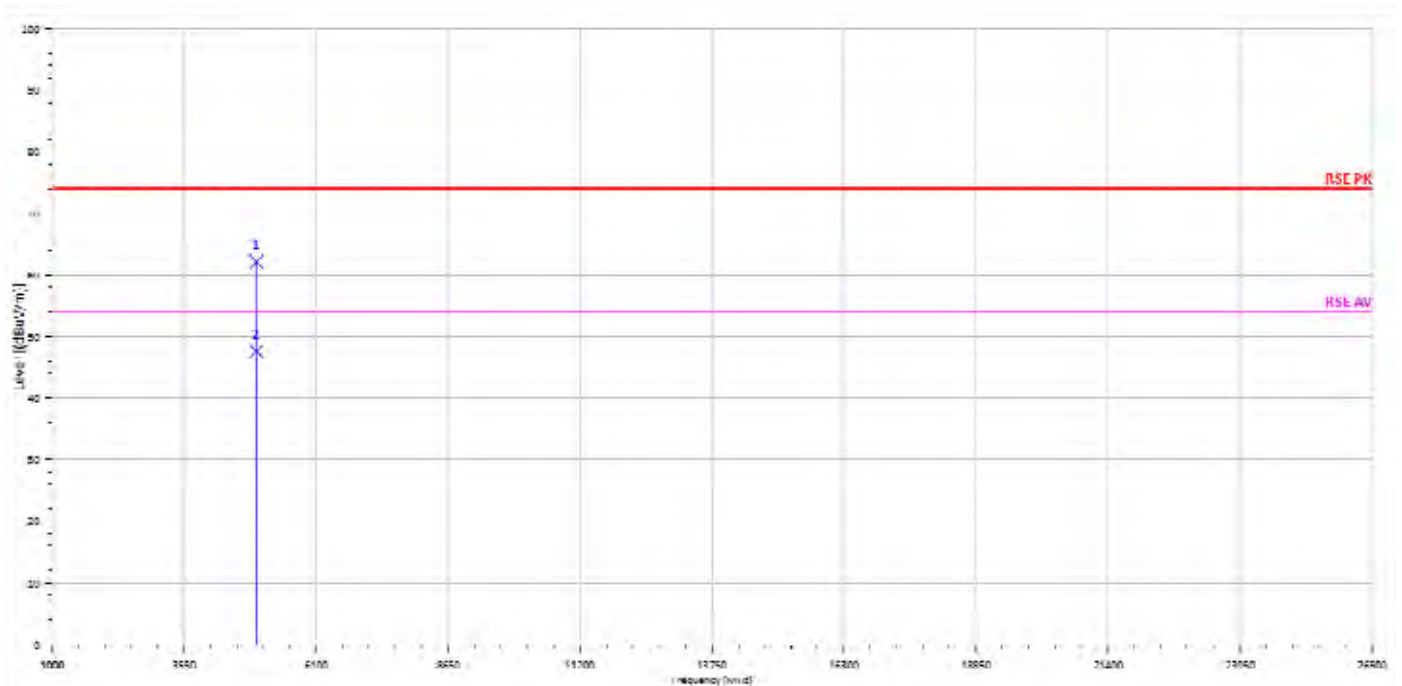
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Operation Mode : 802.11g Test Date : 2018/5/22
 Fundamental Frequency : 2472 MHz Temp. / Humi. : 25deg_C/65RH
 Operation Band : Tx CH 13 Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4944.00	H	Peak	62.78	-0.64	62.14	74	-11.86
4944.00	H	Average	48.22	-0.64	47.58	54	-6.42

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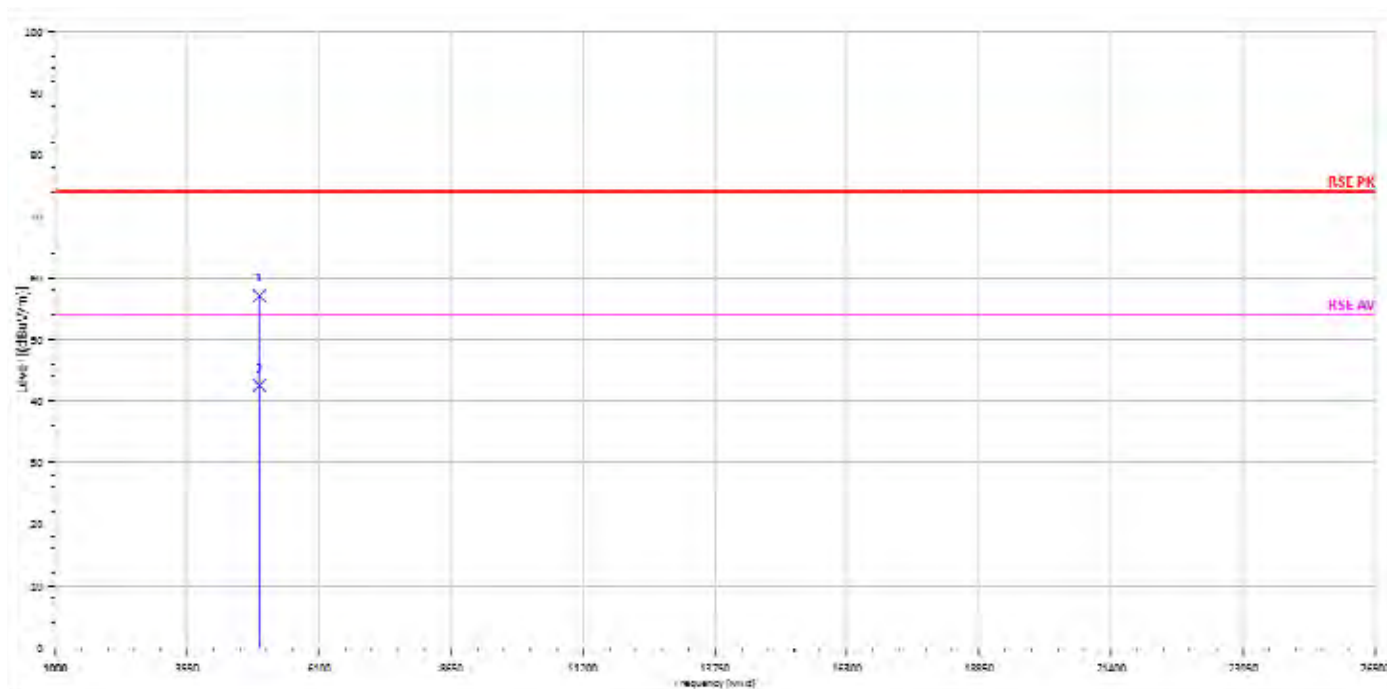
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Operation Mode :	802.11g	Test Date :	2018/5/22
Fundamental Frequency :	2472 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH 13	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4944.00	H	Peak	57.76	-0.64	57.11	74	-16.89
4944.00	H	Average	43.13	-0.64	42.48	54	-11.52

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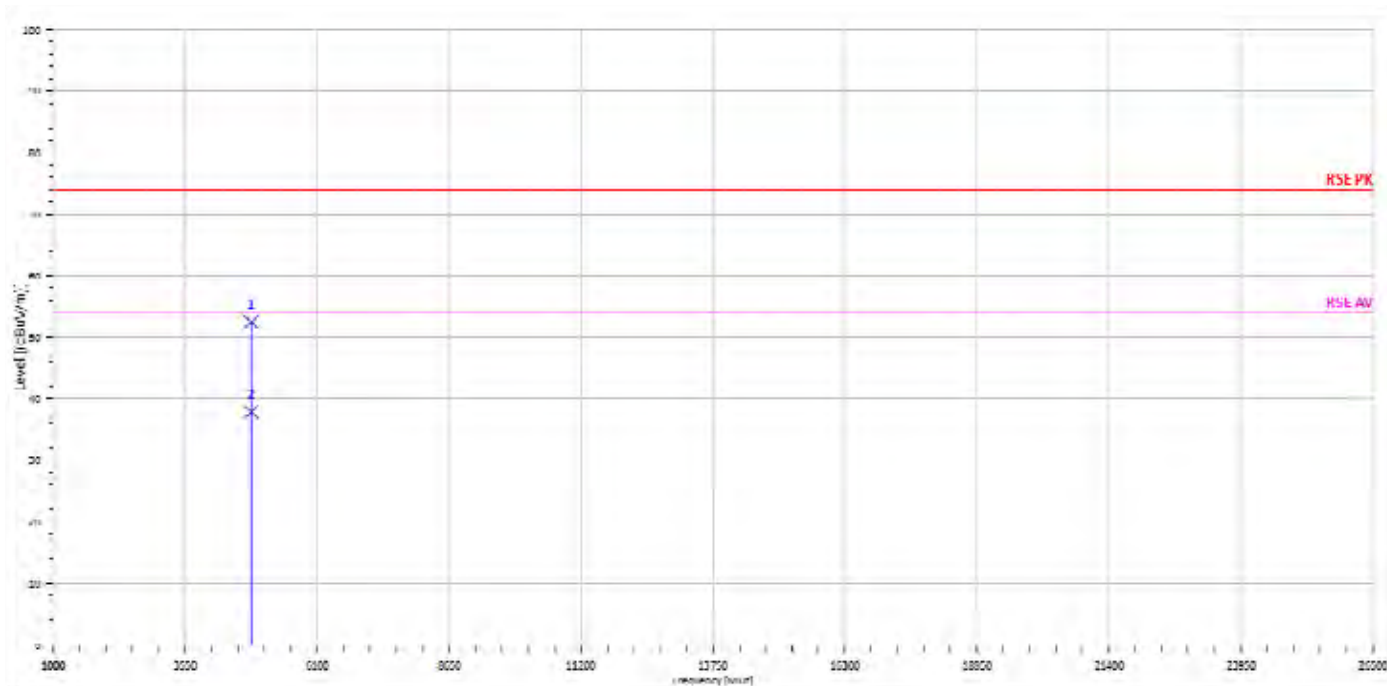
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Radiated Spurious Emission Measurement Result (802.11n_HT20)

Operation Mode :	802.11n20	Test Date :	2018/2/26
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	H	Peak	53.53	-1.04	52.49	74	-21.51
4824.00	H	Average	38.86	-1.04	37.82	54	-16.18

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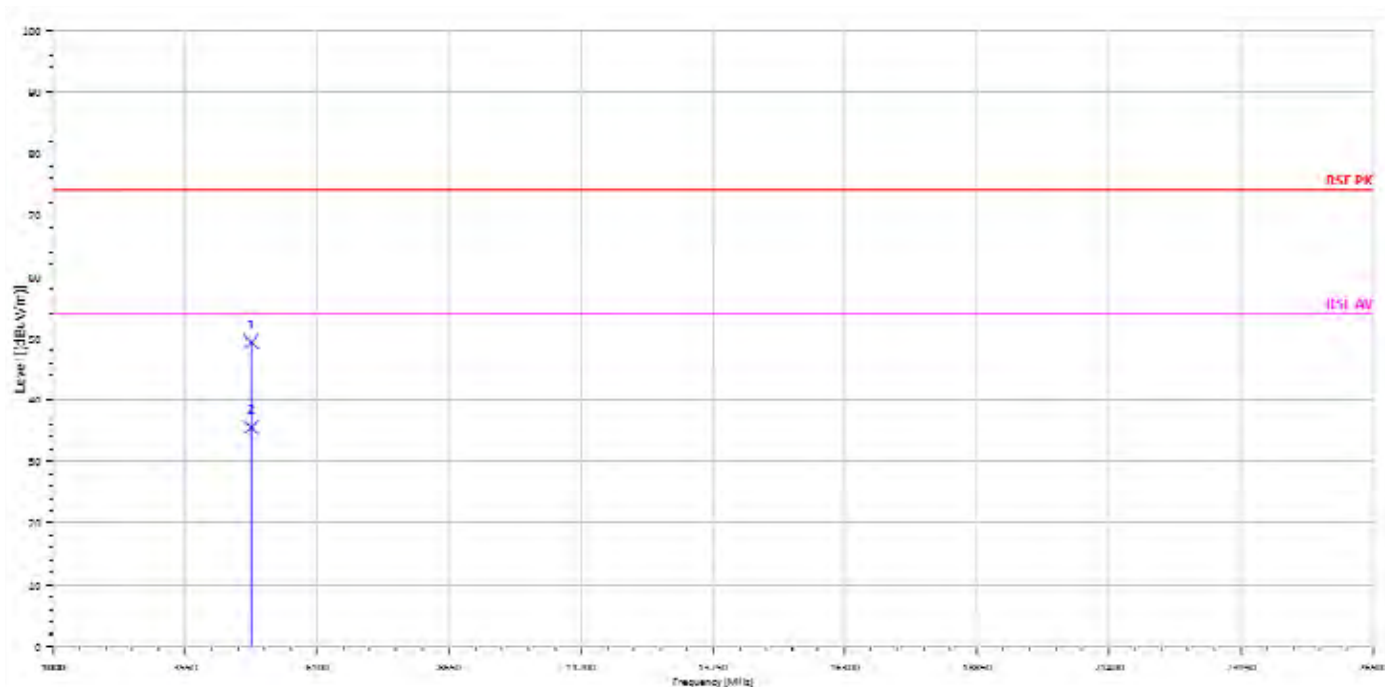
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Operation Mode : 802.11n20 Test Date : 2018/2/26
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 25deg_C/65RH
 Operation Band : Tx CH Low Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	H	Peak	50.50	-1.04	49.46	74	-24.54
4824.00	H	Average	36.60	-1.04	35.56	54	-18.44

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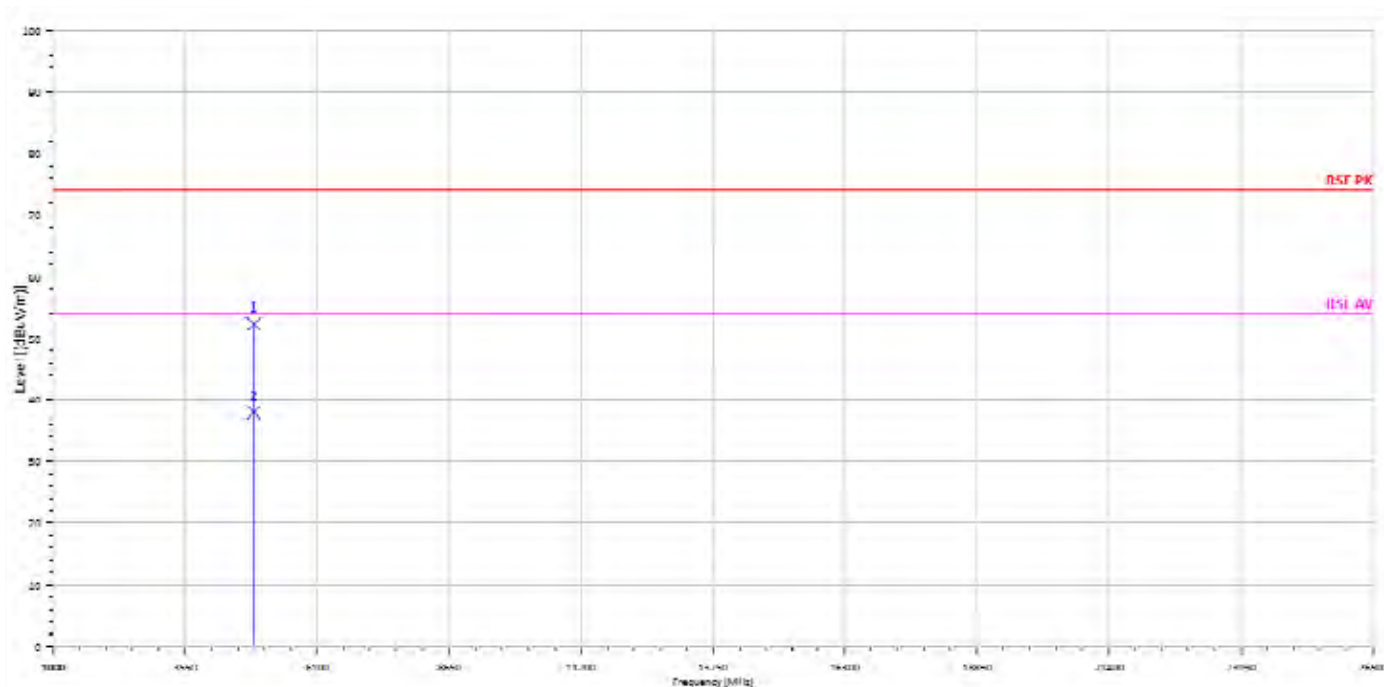
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Operation Mode : 802.11n20 Test Date : 2018/2/26
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 25deg_C/65RH
 Operation Band : Tx CH Mid Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	H	Peak	53.01	-0.75	52.26	74	-21.74
4874.00	H	Average	38.70	-0.75	37.95	54	-16.05

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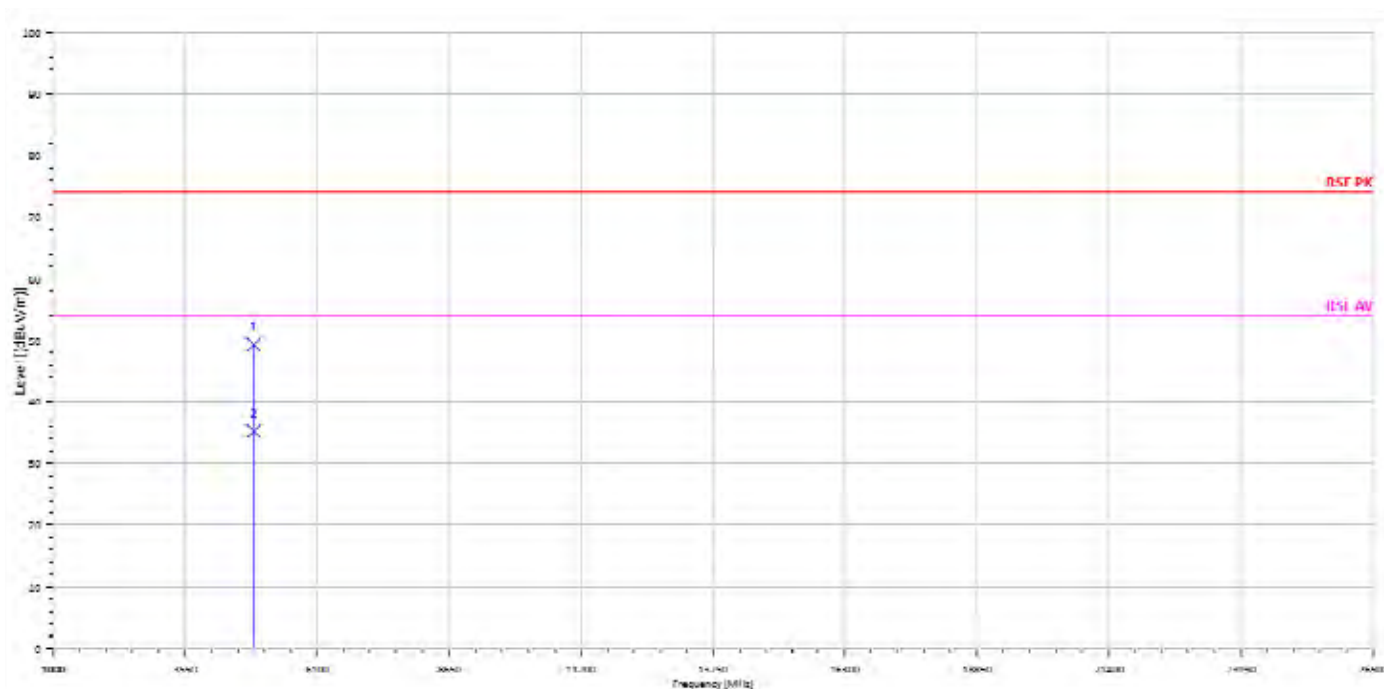
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Operation Mode : 802.11n20 Test Date : 2018/2/26
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 25deg_C/65RH
 Operation Band : Tx CH Mid Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	H	Peak	50.09	-0.75	49.34	74	-24.66
4874.00	H	Average	36.01	-0.75	35.26	54	-18.74

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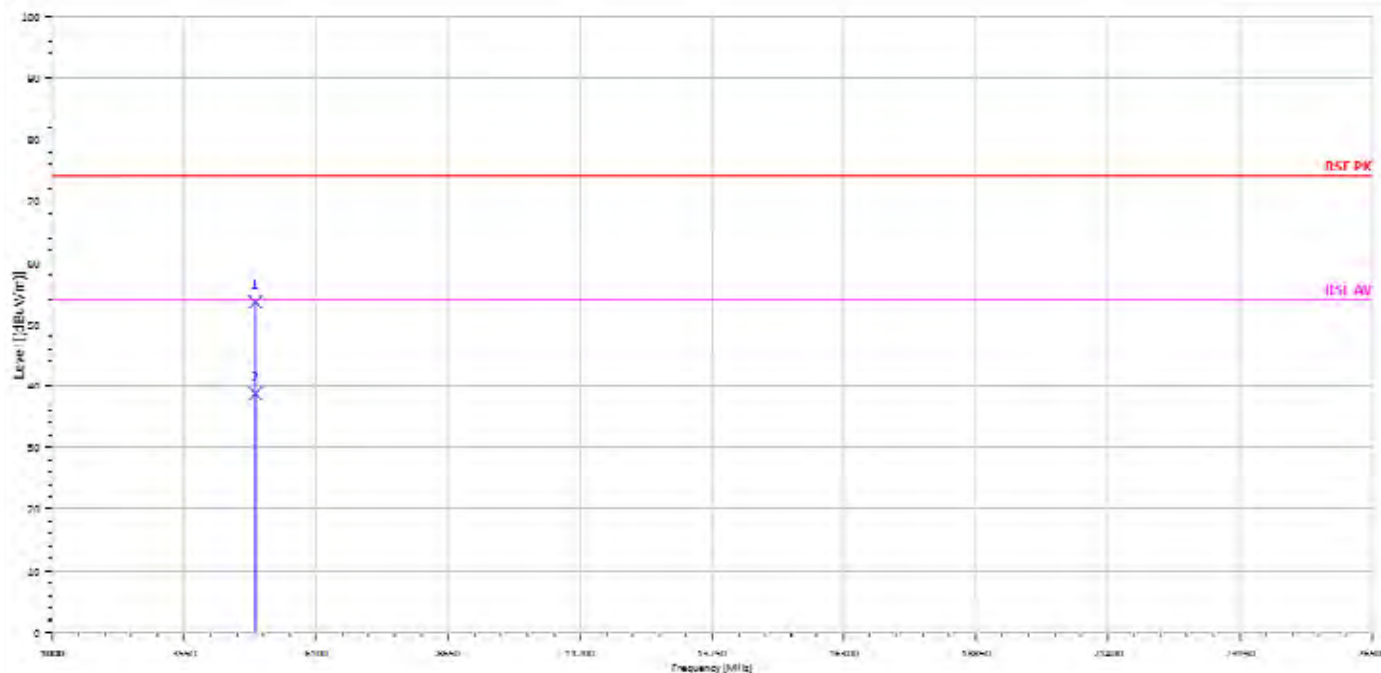
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Operation Mode :	802.11n20	Test Date :	2018/2/26
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	H	Peak	54.28	-0.62	53.66	74	-20.34
4924.00	H	Average	39.34	-0.62	38.71	54	-15.29

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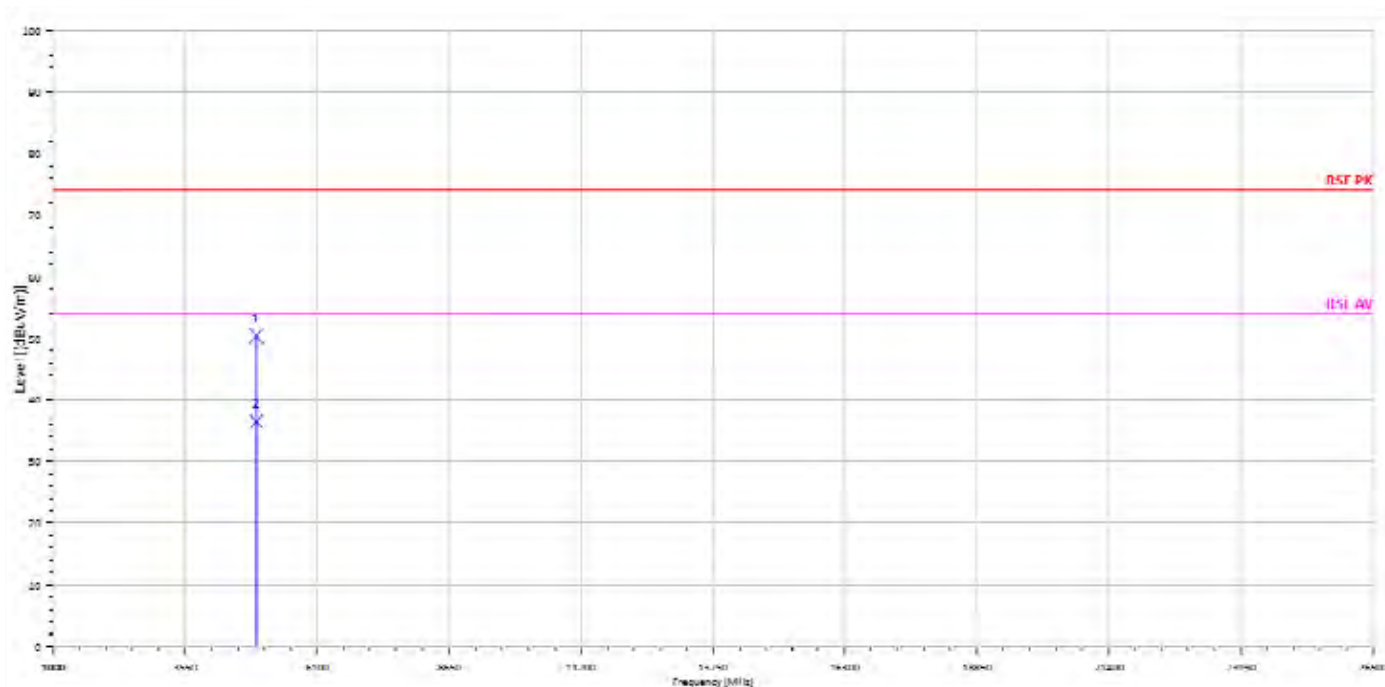
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Operation Mode : 802.11n20 Test Date : 2018/2/26
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 25deg_C/65RH
 Operation Band : Tx CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum 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	51.02	-0.62	50.40	74	-23.60
4924.00	H	Average	37.12	-0.62	36.50	54	-17.50

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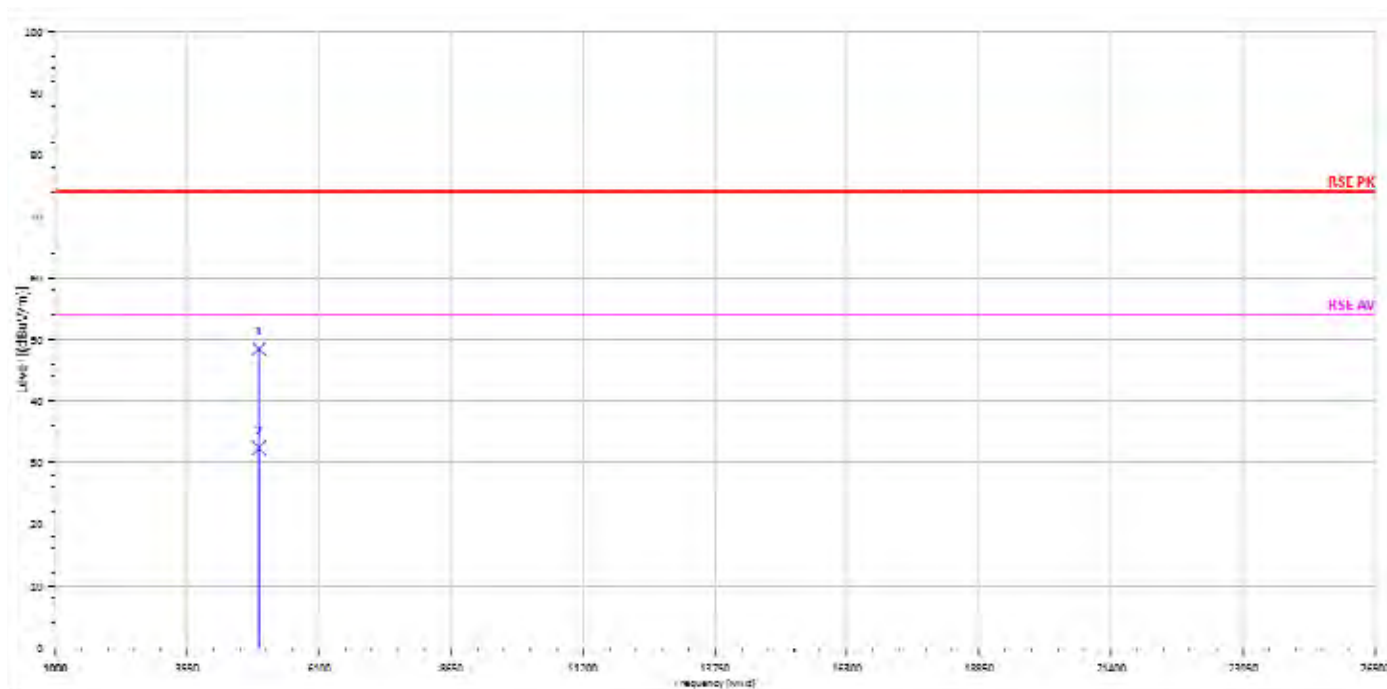
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Operation Mode :	802.11n20	Test Date :	2018/3/1
Fundamental Frequency :	2467 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH 12	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4934.00	H	Peak	49.13	-0.63	48.50	74	-25.50
4934.00	H	Average	33.02	-0.63	32.39	54	-21.61

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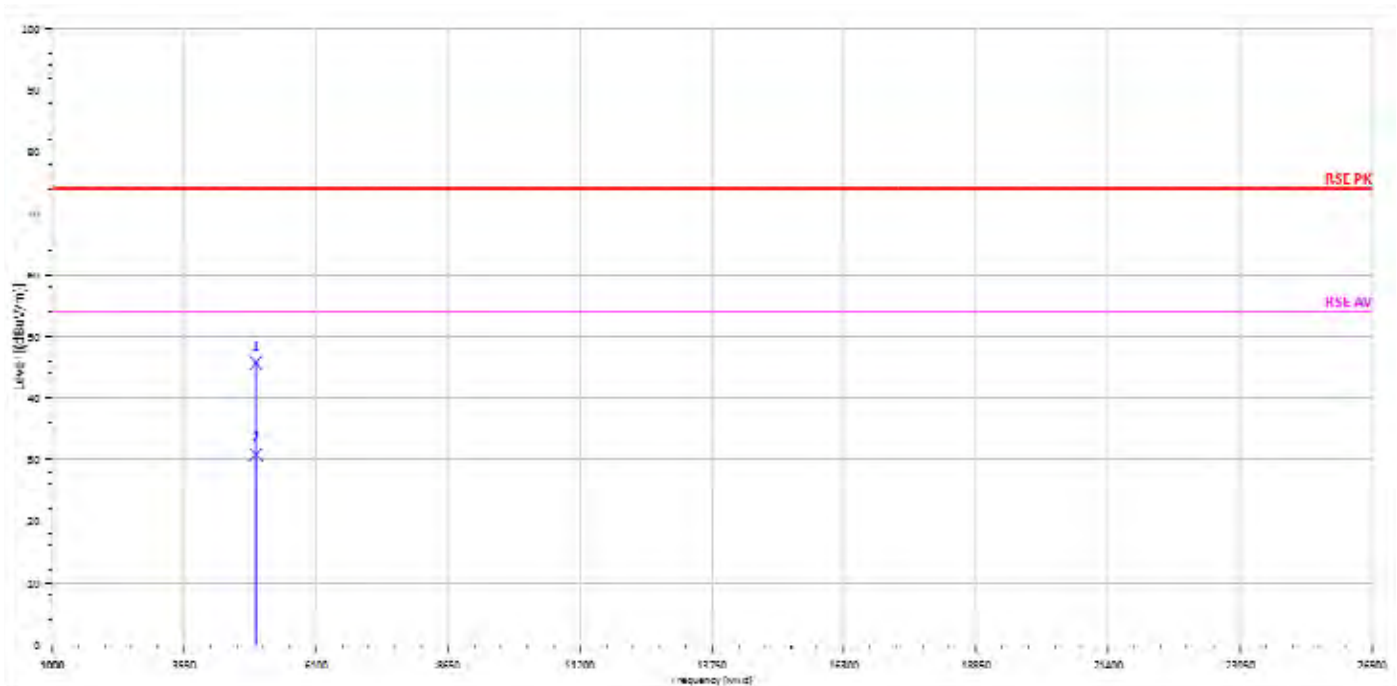
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Operation Mode : 802.11n20 Test Date : 2018/3/1
Fundamental Frequency : 2467 MHz Temp. / Humi. : 25deg_C/65RH
Operation Band : Tx CH 12 Test Engineer : Jerry
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4934.00	H	Peak	46.37	-0.63	45.74	74	-28.26
4934.00	H	Average	31.52	-0.63	30.89	54	-23.11

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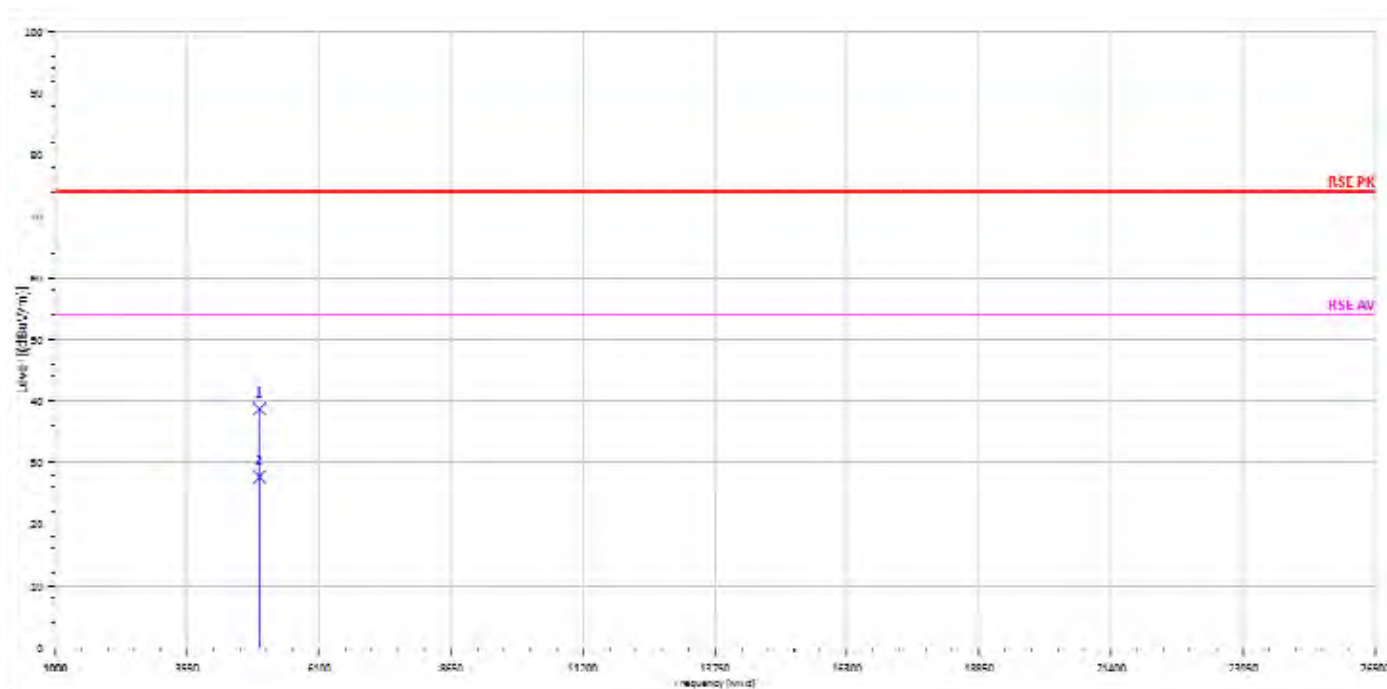
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Operation Mode : 802.11n20 Test Date : 2018/3/1
 Fundamental Frequency : 2472 MHz Temp. / Humi. : 25deg_C/65RH
 Operation Band : Tx CH 13 Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4944.00	H	Peak	39.33	-0.64	38.69	74	-35.31
4944.00	H	Average	28.33	-0.64	27.68	54	-26.32

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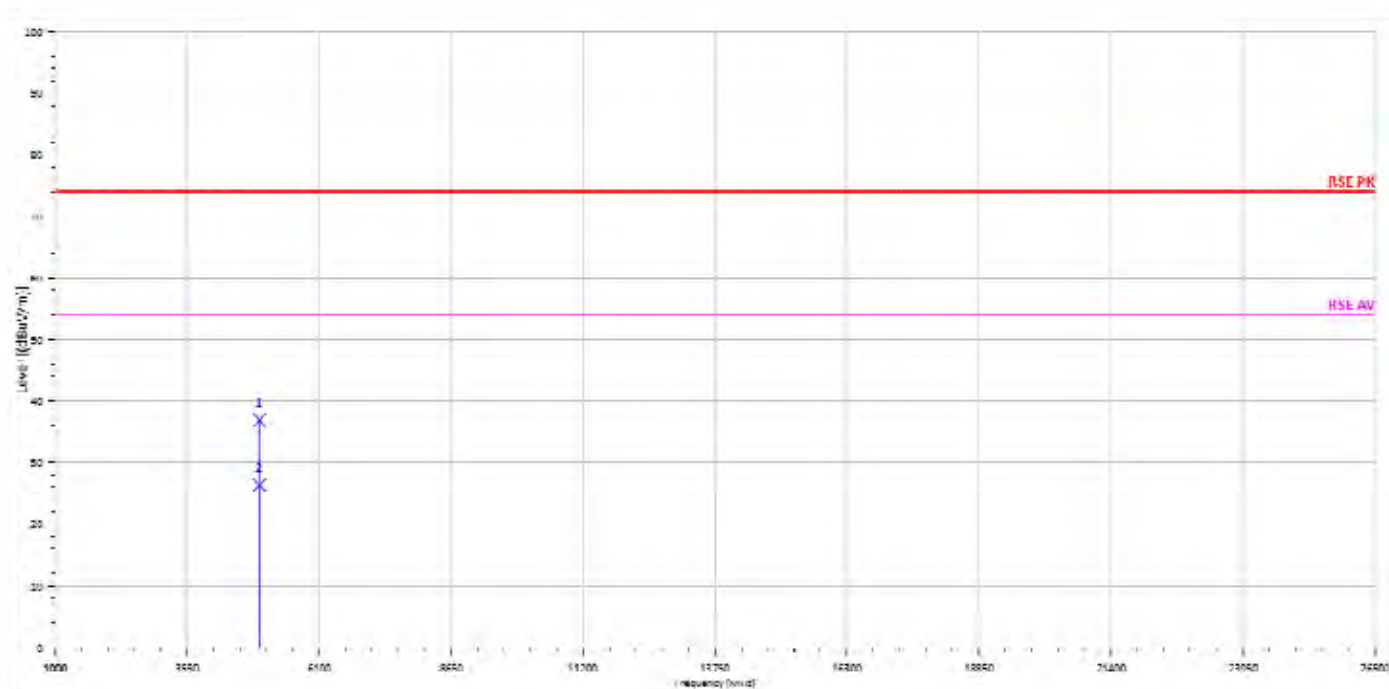
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Operation Mode :	802.11n20	Test Date :	2018/3/1
Fundamental Frequency :	2472 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH 13	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4944.00	H	Peak	37.54	-0.64	36.90	74	-37.10
4944.00	H	Average	27.02	-0.64	26.38	54	-27.62

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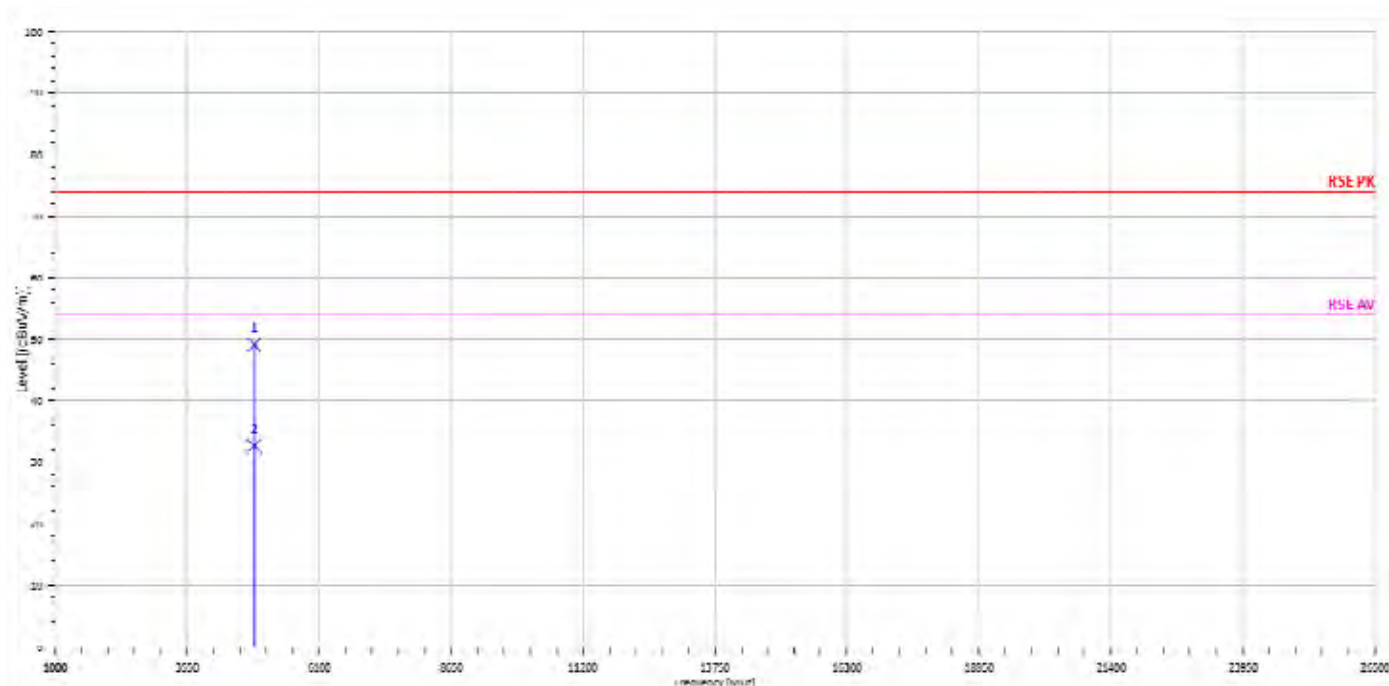
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Radiated Spurious Emission Measurement Result (802.11n_HT40)

Operation Mode :	802.11n40	Test Date :	2018/3/1
Fundamental Frequency :	2422 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4844.00	H	Peak	49.99	-0.92	49.07	74	-24.93
4844.00	H	Average	33.58	-0.92	32.66	54	-21.34

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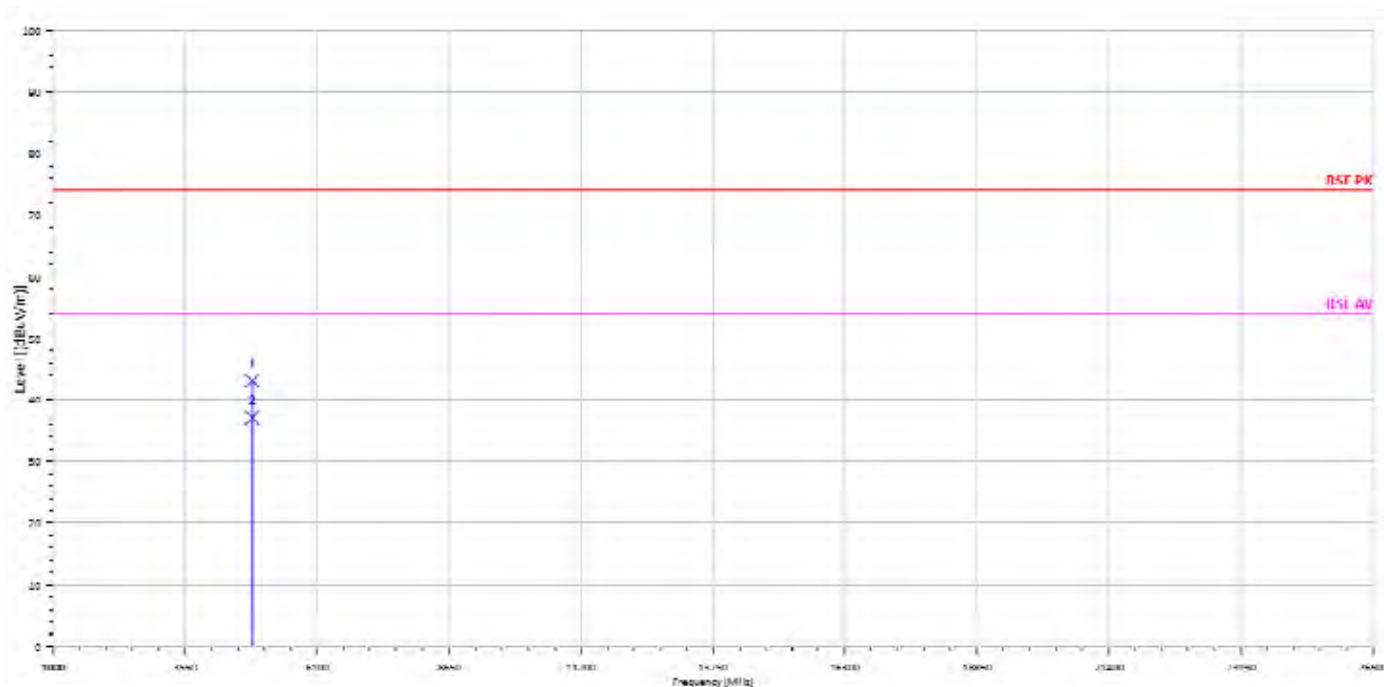
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f (886-2) 2298-0488

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Operation Mode : 802.11n40 Test Date : 2018/3/1
 Fundamental Frequency : 2422 MHz Temp. / Humi. : 25deg_C/65RH
 Operation Band : Tx CH Low Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4844.00	H	Peak	47.25	-0.92	43.06	74	-30.94
4844.00	H	Average	38.01	-0.92	37.09	54	-16.91

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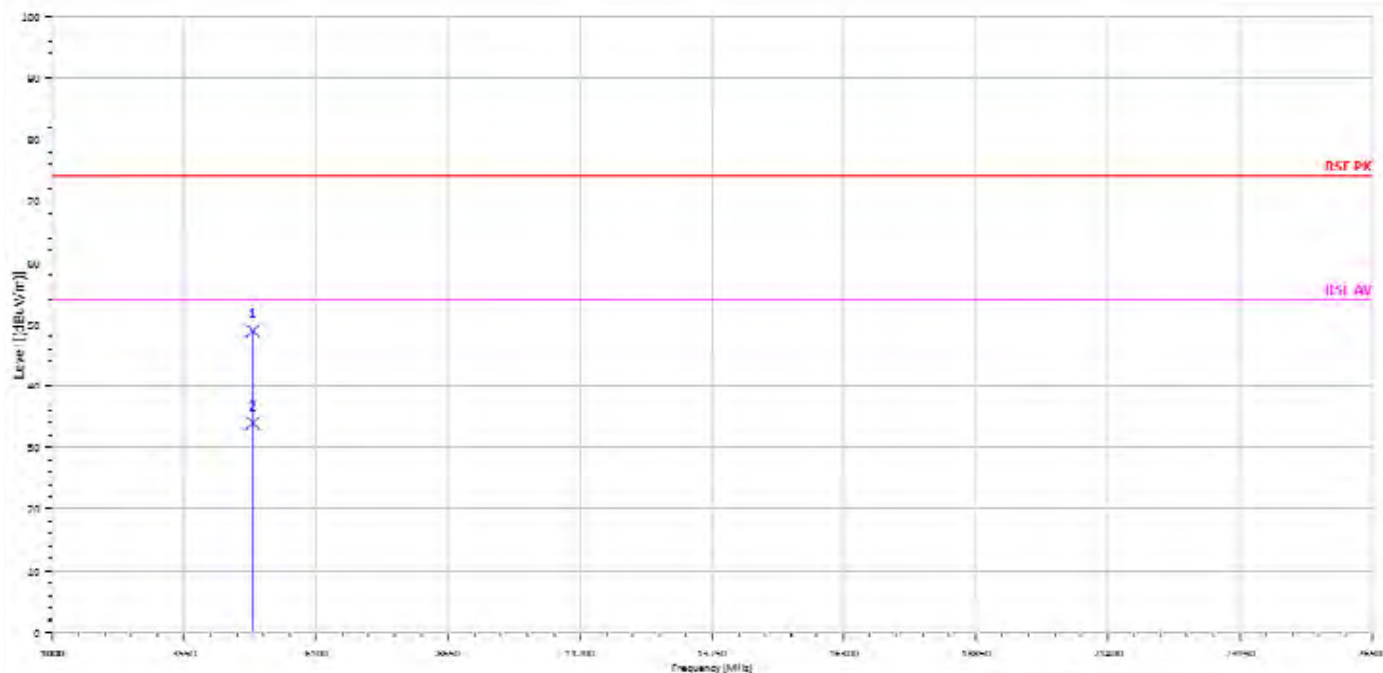
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Operation Mode :	802.11n40	Test Date :	2018/3/1
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	H	Peak	49.70	-0.75	48.95	74	-25.05
4874.00	H	Average	34.70	-0.75	33.95	54	-20.05

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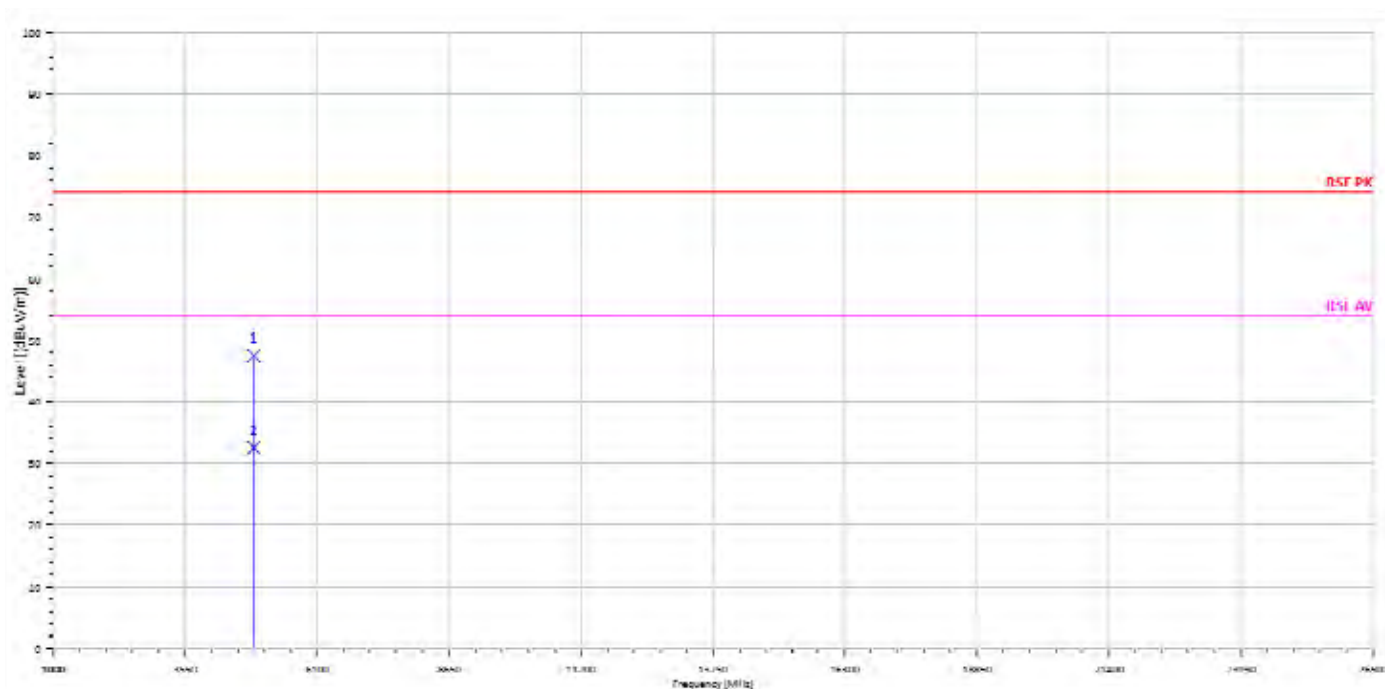
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Operation Mode : 802.11n40 Test Date : 2018/3/1
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 25deg_C/65RH
 Operation Band : Tx CH Mid Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	H	Peak	48.24	-0.75	47.49	74	-26.51
4874.00	H	Average	33.29	-0.75	32.54	54	-21.46

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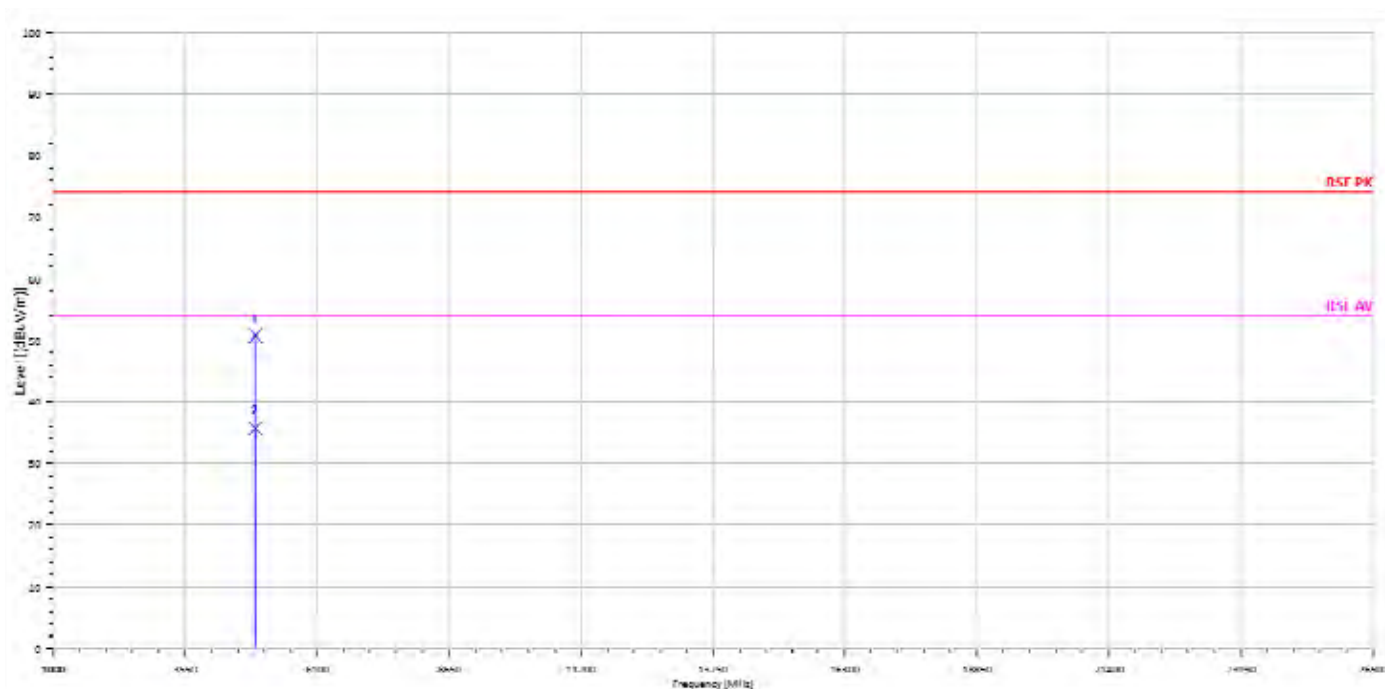
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Operation Mode : 802.11n40 Test Date : 2018/3/1
 Fundamental Frequency : 2452 MHz Temp. / Humi. : 25deg_C/65RH
 Operation Band : Tx CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4904.00	H	Peak	51.33	-0.60	50.73	74	-23.27
4904.00	H	Average	36.37	-0.60	35.77	54	-18.23

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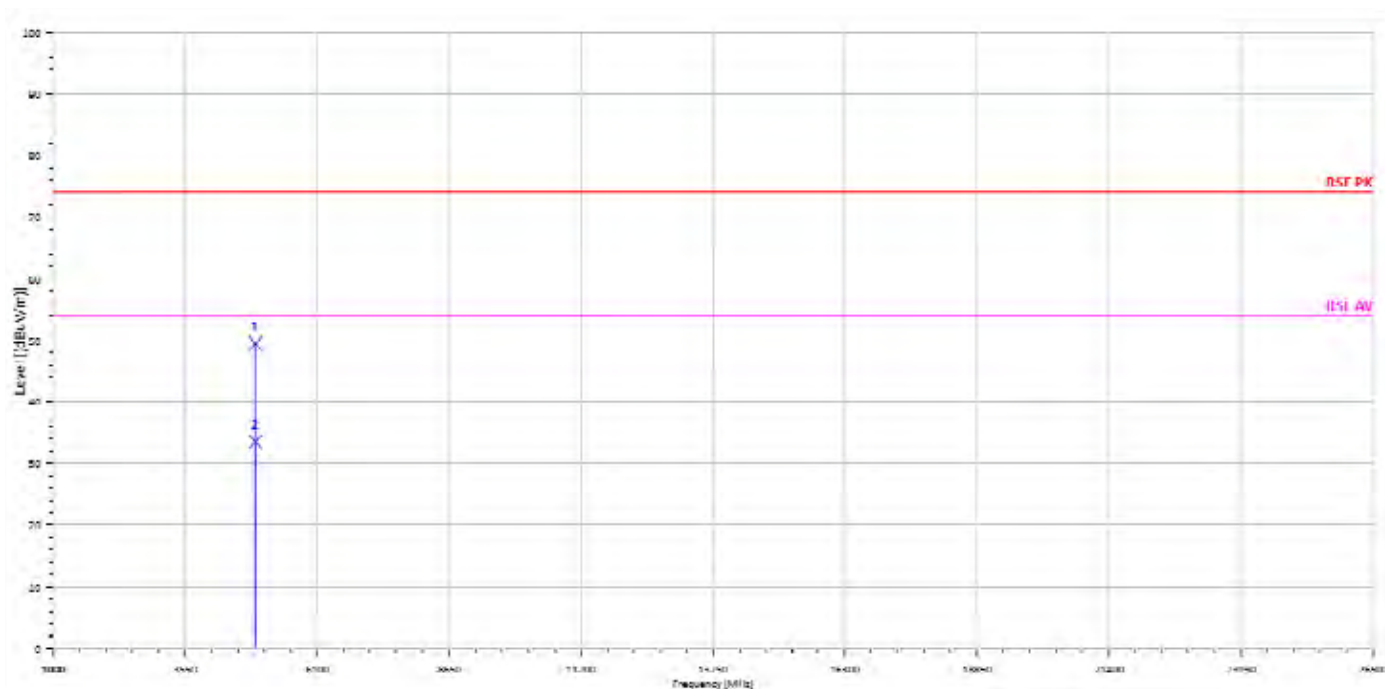
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Operation Mode : 802.11n40 Test Date : 2018/3/1
 Fundamental Frequency : 2452 MHz Temp. / Humi. : 25deg_C/65RH
 Operation Band : Tx CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4904.00	H	Peak	50.12	-0.60	49.52	74	-24.48
4904.00	H	Average	34.10	-0.60	33.50	54	-20.50

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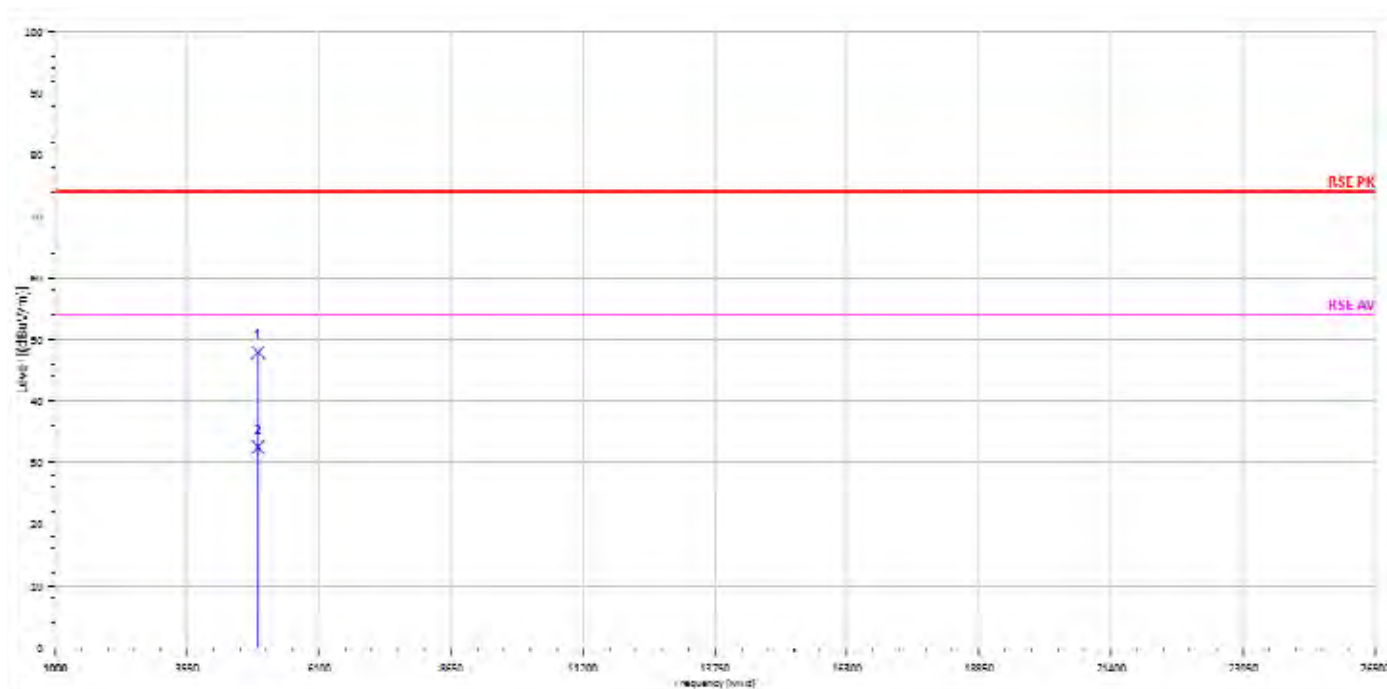
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Operation Mode :	802.11n40	Test Date :	2018/3/1
Fundamental Frequency :	2457 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH 10	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4914.00	H	Peak	48.53	-0.61	47.92	74	-26.08
4914.00	H	Average	33.17	-0.61	32.56	54	-21.44

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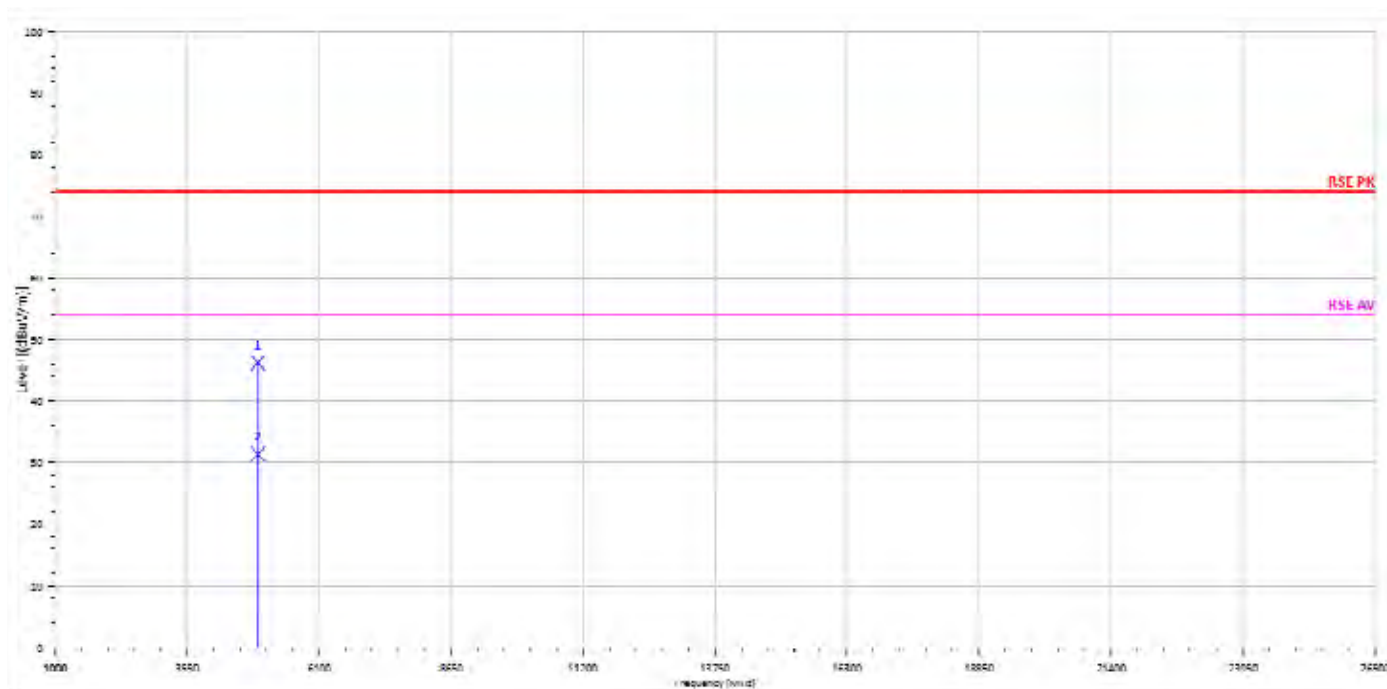
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Operation Mode :	802.11n40	Test Date :	2018/3/1
Fundamental Frequency :	2457 MHz	Temp. / Humi. :	25deg_C/65RH
Operation Band :	Tx CH 10	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4914.00	H	Peak	46.84	-0.61	46.23	74	-27.77
4914.00	H	Average	32.02	-0.61	31.41	54	-22.59

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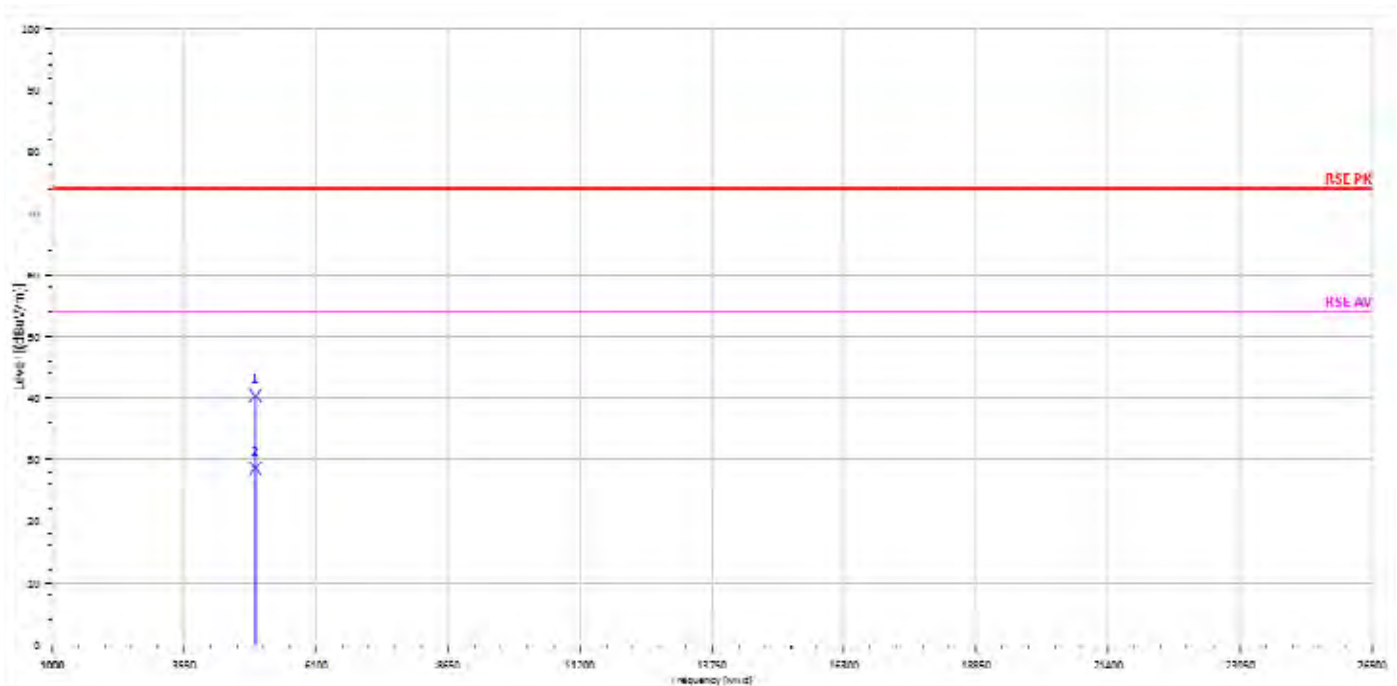
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Operation Mode : 802.11n40 Test Date : 2018/3/1
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 25deg_C/65RH
 Operation Band : Tx CH 11 Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum 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	41.03	-0.62	40.41	74	-33.59
4924.00	H	Average	29.21	-0.62	28.59	54	-25.41

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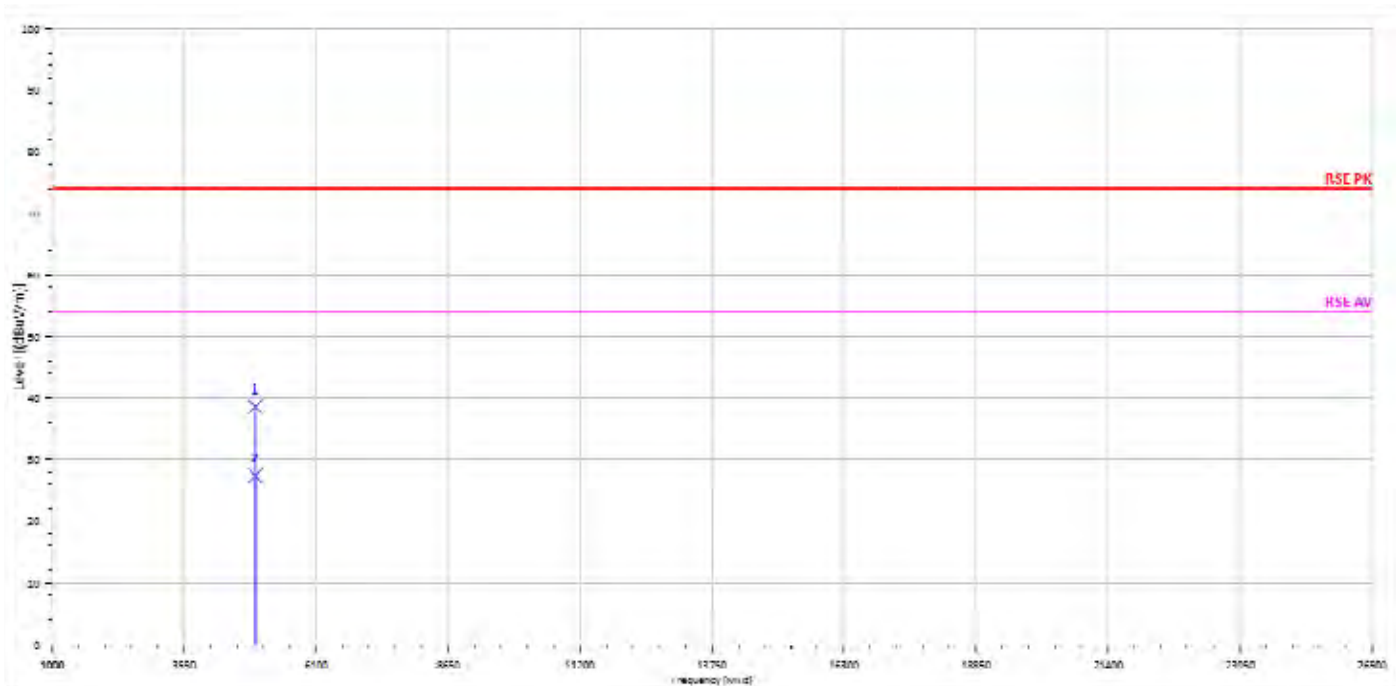
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Fundamental Frequency : 2462 MHz Temp. / Humi. : 25deg_C/65RH
Operation Band : Tx CH 11 Test Engineer : Jerry
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum 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	39.17	-0.62	38.55	74	-35.45
4924.00	H	Average	28.03	-0.62	27.41	54	-26.59

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12 PEAK POWER SPECTRAL DENSITY

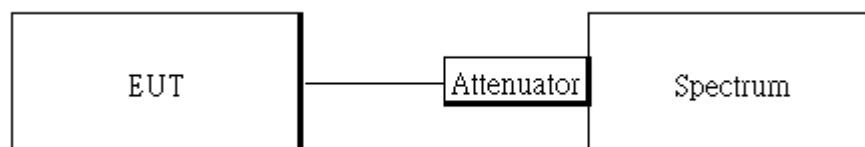
12.1 Standard Applicable

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	MY51440113	06/20/2017	06/19/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A 195C	RF01	12/24/2017	12/23/2018
DC Block	PASTERNAK	PE8210	RF29	12/24/2017	12/23/2018
Attenuator	WOKEN	218FS-10	RF23	12/24/2017	12/23/2018

12.3 Test Set-up



12.4 Measurement Procedure

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 3 kHz. & 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.
11. 802.11n MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna. N=2 for this given application for the test of PSD at MIMO mode, the highest emission of worst case is employing.

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12.5 Measurement Result

POWER DENSITY 802.11b				
Freq. (MHz)	PPSD W/O Duty Factor (dBm)	PPSD With Duty Factor (dBm)	Limit (dBm)	Result
2412	-15.38	-15.38	8.00	PASS
2437	-15.12	-15.12	8.00	PASS
2462	-15.34	-15.34	8.00	PASS
2467	-14.99	-14.99	8.00	PASS
2472	-16.18	-16.18	8.00	PASS

POWER DENSITY 802.11g				
Freq. (MHz)	PPSD W/O Duty Factor (dBm)	PPSD With Duty Factor (dBm)	Limit (dBm)	Result
2412	-8.96	-8.96	8.00	PASS
2437	-9.17	-9.17	8.00	PASS
2462	-8.30	-8.30	8.00	PASS
2467	-10.74	-10.74	8.00	PASS
2472	-17.01	-17.01	8.00	PASS

POWER DENSITY 802.11n HT20				
Freq. (MHz)	PPSD W/O Duty Factor (dBm)	PPSD With Duty Factor (dBm)	Limit (dBm)	Result
2412	-7.97	-7.97	8.00	PASS
2437	-8.20	-8.20	8.00	PASS
2462	-8.74	-8.74	8.00	PASS
2467	-10.75	-10.75	8.00	PASS
2472	-21.53	-21.53	8.00	PASS

POWER DENSITY 802.11n HT40				
Freq. (MHz)	PPSD W/O Duty Factor (dBm)	PPSD With Duty Factor (dBm)	Limit (dBm)	Result
2422	-10.66	-10.66	8.00	PASS
2437	-11.09	-11.09	8.00	PASS
2452	-10.66	-10.66	8.00	PASS
2457	-13.61	-13.61	8.00	PASS
2462	-18.94	-18.94	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)



Power Spectral Density Test Plot (CH-High)



Power Spectral Density Test Plot (CH-High) 2467MHz



Power Spectral Density Test Plot (CH-High) 2472 MHz



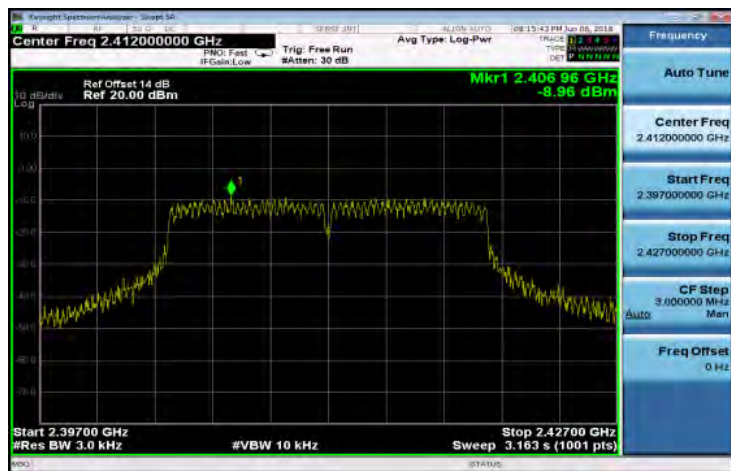
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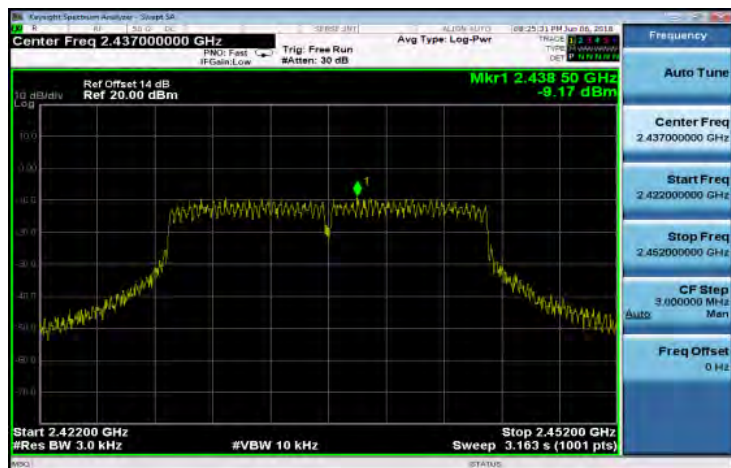
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802.11g

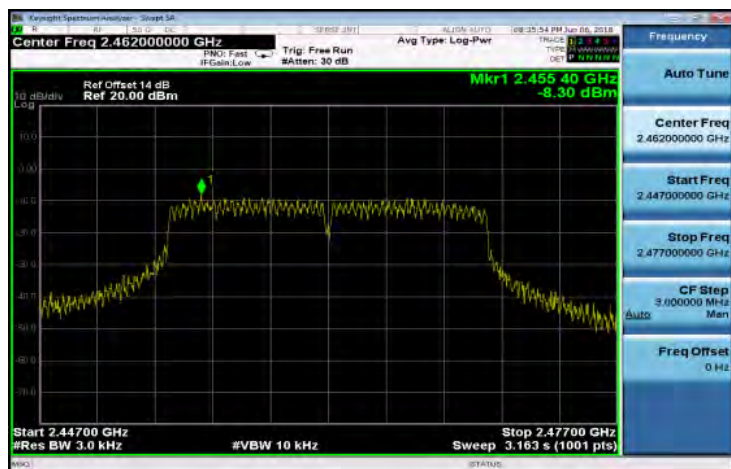
Power Spectral Density Test Plot (CH-Low)



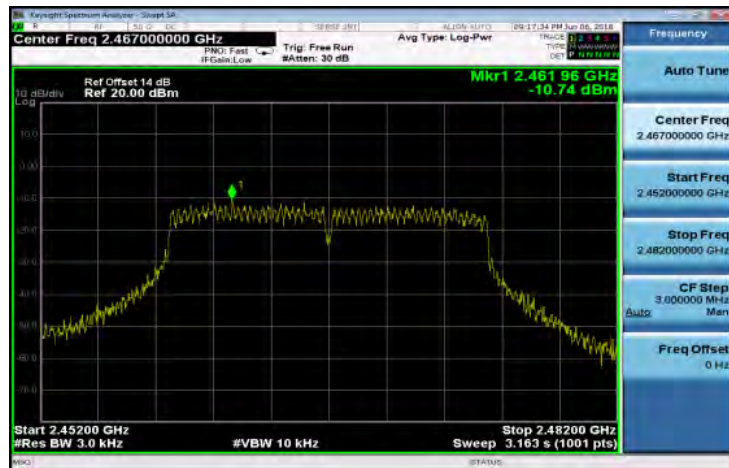
Power Spectral Density Test Plot (CH-Mid)



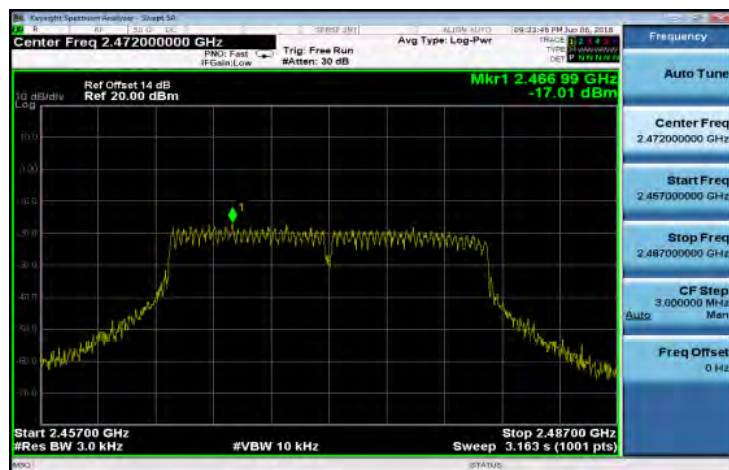
Power Spectral Density Test Plot (CH-High)



Power Spectral Density Test Plot (CH-High) 2467MHz



Power Spectral Density Test Plot (CH-High) 2472MHz



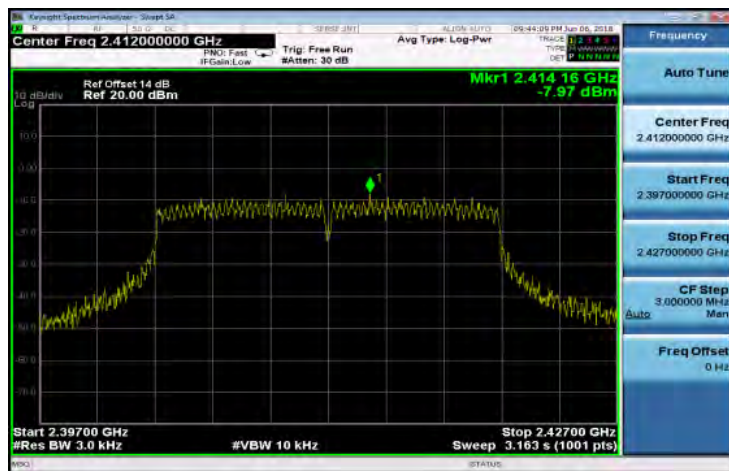
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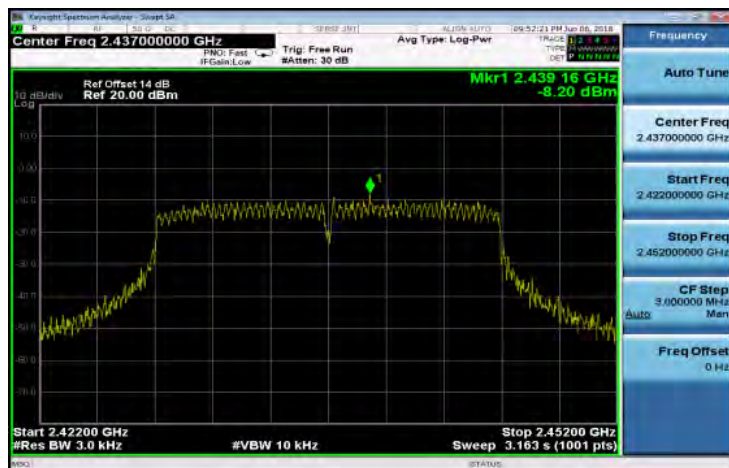
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802.11n_HT20

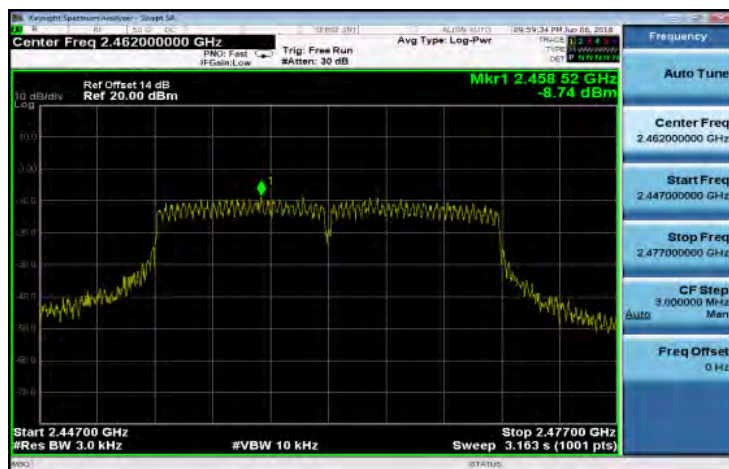
Power Spectral Density Test Plot (CH-Low)



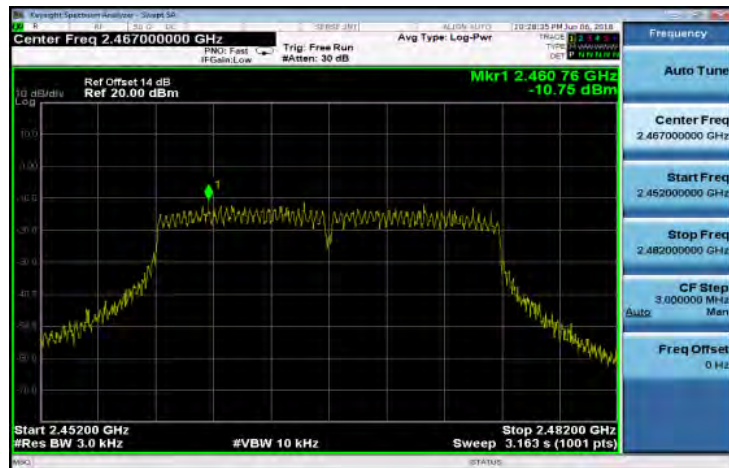
Power Spectral Density Test Plot (CH-Mid)



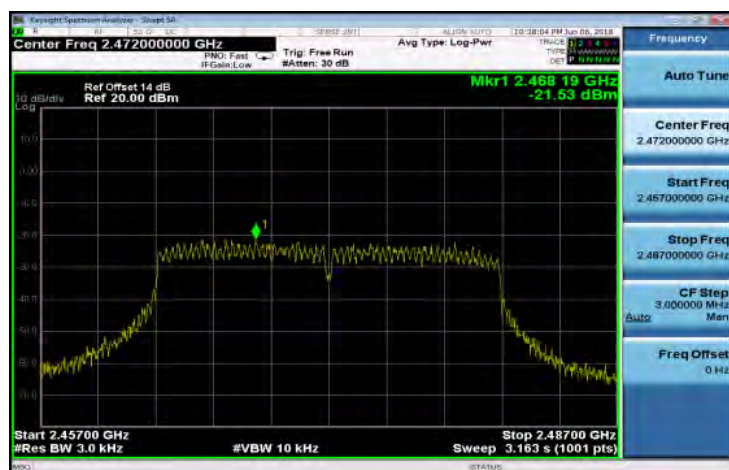
Power Spectral Density Test Plot (CH-High)



Power Spectral Density Test Plot (CH-High) 2467MHz



Power Spectral Density Test Plot (CH-High) 2472MHz



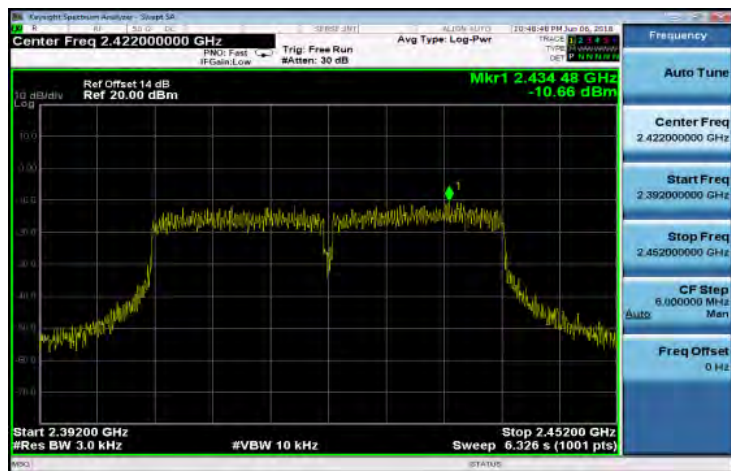
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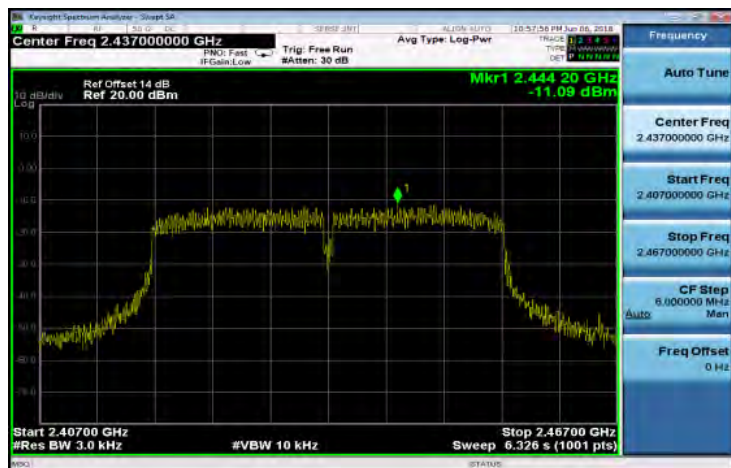
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802.11n_HT40

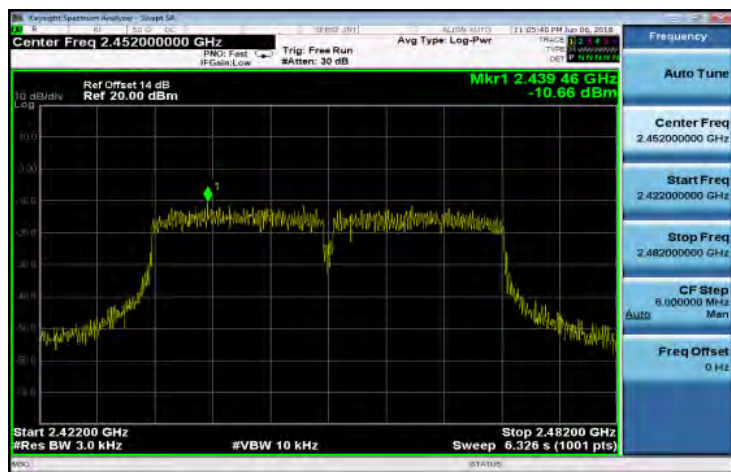
Power Spectral Density Test Plot (CH-Low)



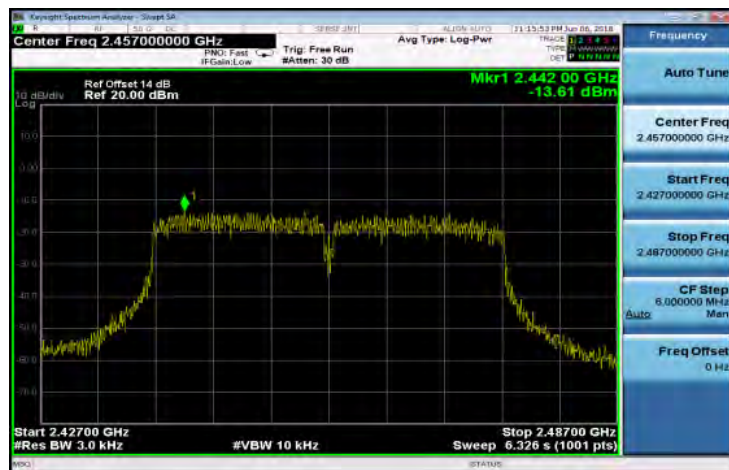
Power Spectral Density Test Plot (CH-Mid)



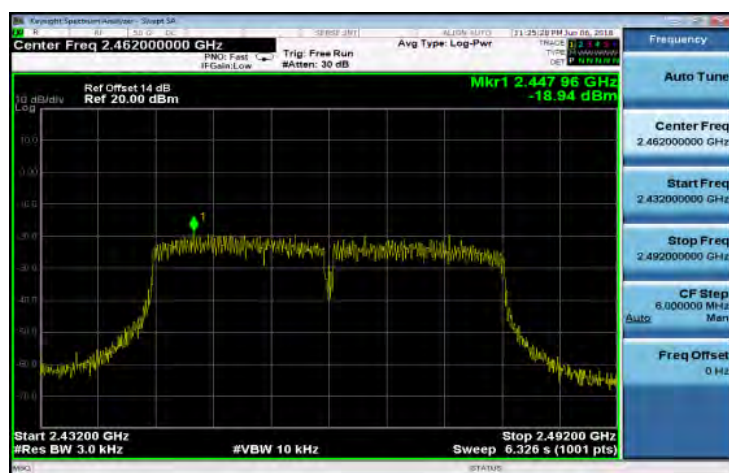
Power Spectral Density Test Plot (CH-High)



Power Spectral Density Test Plot (CH-High) 2457MHz



Power Spectral Density Test Plot (CH-High) 2462MHz



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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.

13.2 Antenna Connected Construction

An embedded-in antenna design is used.

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

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