

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT

OF

Applicant: Robotelf Technologies Co., Ltd
3390 East Harmony Road Fort Collins, Colorado 80528
United States

Product Name: Robelf Smart Robot

Brand Name: Robotelf Technologies Co., Ltd

Model No.: RBE001

Model Difference: N/A

FCC ID: 2APLA-RBE001

Report Number: E2/2018/50036

FCC Rule Part: §15.407, Cat: NII

Issue Date: Jun. 08, 2018

Date of Test: May. 31, 2018(Conducted); May. 30, 2018(Radiated)

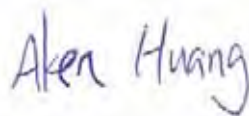
Date of EUT Received: Apr. 12, 2018

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:



Aken Huang / Engineer



Approved By:

Jim Chang / Manager



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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
E2/2018/50036	Rev.00	Initial creation of document	All	Jun. 08, 2018	Elle Chang

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1 GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	Robelf Smart Robot	
Brand Name:	Robotelf Technologies Co., Ltd	
Model No.:	RBE001	
Model Difference:	N/A	
Product SW/HW version:	N/A/ N/A	
Power Supply:	20V from AC/DC Adapter	
	Adapter:	Model No.: ADPC2045, Supplier: TPV ELECTRONICS(FUJIAN) CO., LTD

WLAN 5GHz:

Wi-Fi 802.11	Frequency Range	Channels	Rated Power (Avg.) (dBm)	Modulation Technology
a	5150~5250	4	16.94	OFDM
	5250~5350	4	16.60	
	5470~5725	12	16.78	
	5725-5850	5	15.94	
n_HT ac_VHT 20M	5150~5250	4	HT: 15.76 (Worst Case)	OFDM
	5250~5350	4	HT: 15.69 (Worst Case)	
	5470~5725	12	HT: 15.89 (Worst Case)	
	5725-5850	5	HT: 15.55 (Worst Case)	
n_HT ac_VHT 40M	5150~5250	2	HT: 15.66 (Worst Case)	OFDM
	5250~5350	2	HT: 15.77(Worst Case)	
	5470~5725	6	HT: 15.36 (Worst Case)	
	5725-5850	2	HT: 15.52 (Worst Case)	
Modulation type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac only			
Transition Rate:	802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 144.4Mbps 802.11 n_40MHz: 13.5 – 300Mbps 802.11 ac_20MHz: 6.5 –144.4Mbps 802.11 ac_40MHz: 13.5 –300Mbps			

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Antenna Designation:

PCB	N/A	N/A	5150~5250	4.61 dBi
			5250~5350	4.73 dBi
			5470~5725	5.08 dBi
			5725~5850	4.5 dBi

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1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

ANSI C63.10:2013

Note:

1. 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 Number and Designation are: 735305 / TW0002

1.4 Special Accessories

There are no special accessories used while test was conducted.

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Radiated Emissions

The EUT is a placed on as turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plan. 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.

MIMO mode offset

$$= \text{RF cable loss (dB)} + \text{attenuation factor (dB)} + 10 \log(N_{\text{ANT}}) \text{ dB} = 16.6(\text{dB})$$

2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission



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



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	Notebook	Lenovo	L440	R9-007LAZ	Shielded	Unshielded
2.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.403(i) §15.407(e)	26 dB & 6dB & 99% Emission Bandwidth	Compliant
§15.407(a)	Maximum Conducted Output Power	Compliant
§15.407(a)	Power Spectral Density	Compliant
§15.407(b)	Undesirable Radiated Emissions	Compliant
§15.407(c)	Transmission in case of Absence of Information	Compliant
§15.407(g)	Frequency Stability	Compliant
§15.203 §15.407(a)	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

802.11a / n HT20 Mode, 802.11ac VHT20 Mode	
Channel	Frequency
36	5180
40	5200
44	5220
48	5240

802.11 n HT40 Mode, 802.11ac VHT40 Mode	
channel	Frequency
38	5190
46	5230

Operated band in 5250 MHz ~5350 MHz:

802.11a / n HT20 Mode, 802.11ac VHT20 Mode	
channel	Frequency
52	5260
56	5280
60	5300
64	5320

802.11 n HT40 Mode, 802.11ac VHT40 Mode	
channel	Frequency
54	5270
62	5310

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Operated band in 5500 MHz ~5700 MHz:

802.11a / n HT20 Mode, 802.11ac VHT20 Mode	
Channel	Frequency
100	5500
104	5520
108	5540
112	5560
116	5580
120	5600
124	5620
128	5640
132	5660
136	5680
140	5700
144	5720

802.11 n HT40 Mode, 802.11ac VHT40 Mode	
channel	Frequency
102	5510
110	5550
118	5590
126	5630
134	5670
142	5710

Operated band in 5745 MHz ~5850 MHz:

802.11a / n HT20 Mode, 802.11ac VHT20 Mode	
Channel	Frequency
149	5745
153	5765
157	5785
161	5805

802.11 n HT40 Mode, 802.11ac VHT40 Mode	
channel	Frequency
151	5755
159	5795

4.2 The Worst Test Modes and Channel Details

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

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RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11a	5500~5720	100 to 140	100,116,140	OFDM	6	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	MAIN
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS0	MAIN

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MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5500~5720	100 to 144	100,116,140	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5510~5710	102 to 142	102,110,134	OFDM	MCS0	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS0	MAIN

Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11a/n/ac 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	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11n_HT20 802.11ac_VHT20				OFDM	MCS0	MAIN
802.11n_HT40 802.11ac_VHT40	5190~5230	38 to 46	38,46	OFDM	MCS0	MAIN
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11n_HT20 802.11ac_VHT20				OFDM	MCS0	MAIN
802.11n_HT40 802.11ac_VHT40	5270~5310	54 to 62	54,62	OFDM	MCS0	MAIN
802.11a	5500~5700	100 to 140	100,116,140	OFDM	6	MAIN
802.11n_HT20 802.11ac_VHT20				OFDM	MCS0	MAIN
802.11n_HT40 802.11ac_VHT40	5510~5670	102 to 134	102,110,134	OFDM	MCS0	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11n_HT20 802.11ac_VHT20				OFDM	MCS0	MAIN
802.11n_HT40 802.11ac_VHT40	5755~5795	151 to 159	151,159	OFDM	MCS0	MAIN

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
26dB & 6dB Emission Bandwidth	+/- 123.36 Hz
The Maximum Output Power Measurement	+/- 0.96 dB
Peak Power Spectral Density Measurement	+/- 1.67 dB
Frequency Stability	+/- 123.36 Hz
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 150 kHz to 30 MHz shall not exceed the Limit table as below.

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

Note

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

6.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	06/21/2017	06/20/2018
Attenuator	Marvelous	MVE2213-10	RF31	12/26/2017	12/25/2018
DC Block	PASTERNAK	PE8210	RF81	12/26/2017	12/25/2018
Coaxial Cables	Woken	00100A1F1A18 5C	RF229	12/26/2017	12/25/2018

6.3 EUT Setup

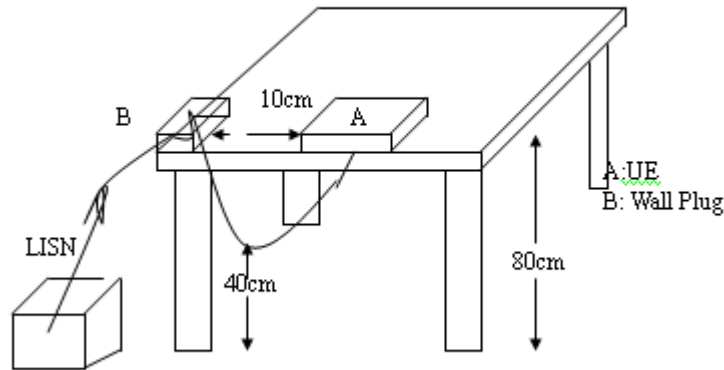
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz power source.

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6.4 Test SET-UP



6.5 Measurement Procedure

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

6.6 Measurement Result

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

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

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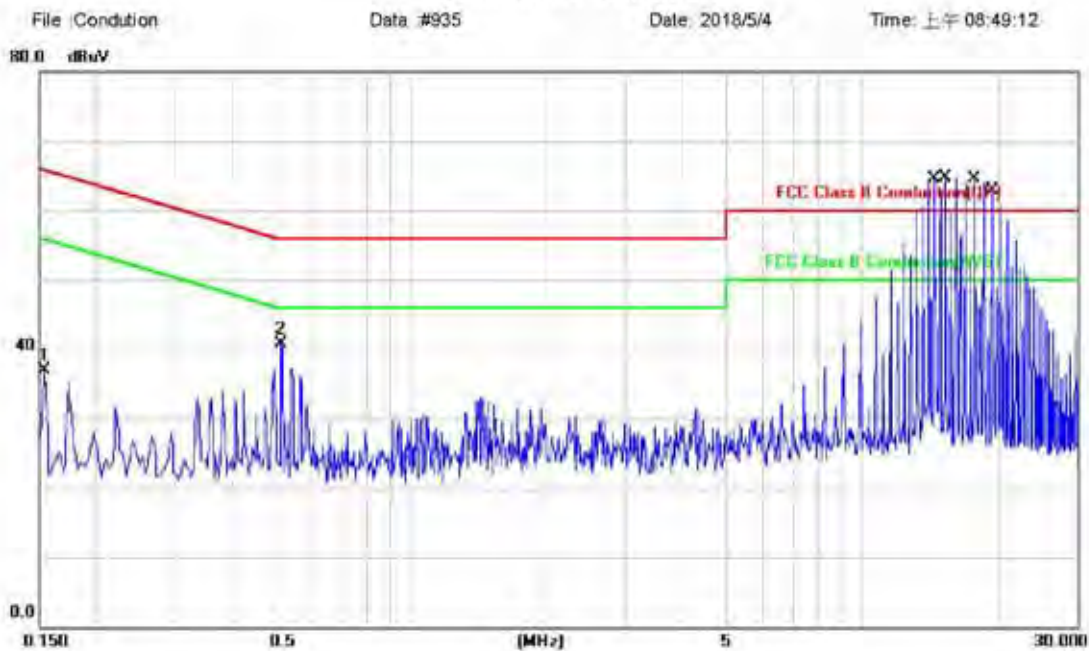
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Site: Conduction Room Phase: **N** Temperature: 21 °C
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 59 %
 Mode:
 Note:

Conducted Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1540	17.26	19.64	36.90	65.78	-28.88	peak	
2		0.5180	20.60	20.11	40.71	56.00	-15.29	peak	
3		14.5020	12.60	20.09	32.69	60.00	-27.31	QP	
4		14.5020	7.20	20.09	27.29	50.00	-22.71	AVG	
5		15.3300	26.70	20.10	46.80	60.00	-13.20	QP	
6 *		15.3300	19.10	20.10	39.20	50.00	-10.80	AVG	
7		17.8180	15.50	20.13	35.63	60.00	-24.37	QP	
8		17.8180	9.70	20.13	29.83	50.00	-20.17	AVG	
9		19.4740	11.30	20.15	31.45	60.00	-28.55	QP	
10		19.4740	5.90	20.15	26.05	50.00	-23.95	AVG	

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7 DUTY CYCLE TEST SIGNAL

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

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

Formula:

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

Measurement Procedure:

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

Duty Cycle:

Mode	Duty Cycle (%)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a	97.45	0.11	0.72	1.00
802.11n_20	97.31	0.12	0.77	1.00
802.11n_40	94.67	0.24	1.55	2.00

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9745) = 0.11$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9731) = 0.12$$

#REF!

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9467) = 0.24$$

#REF!

#REF!

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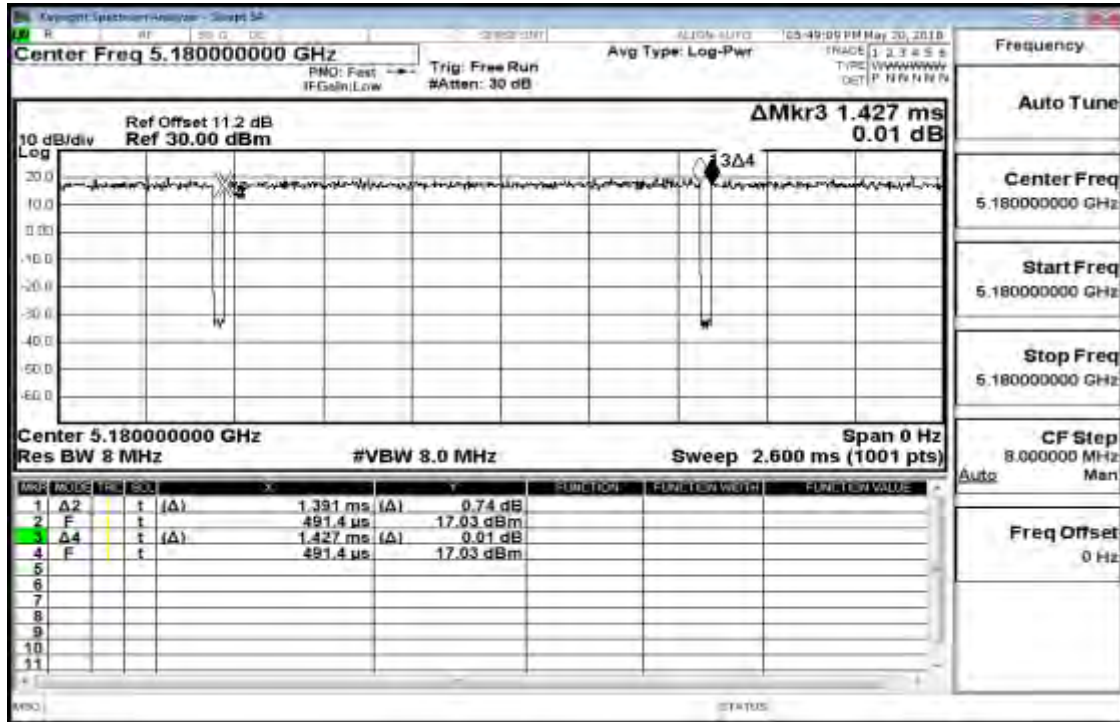
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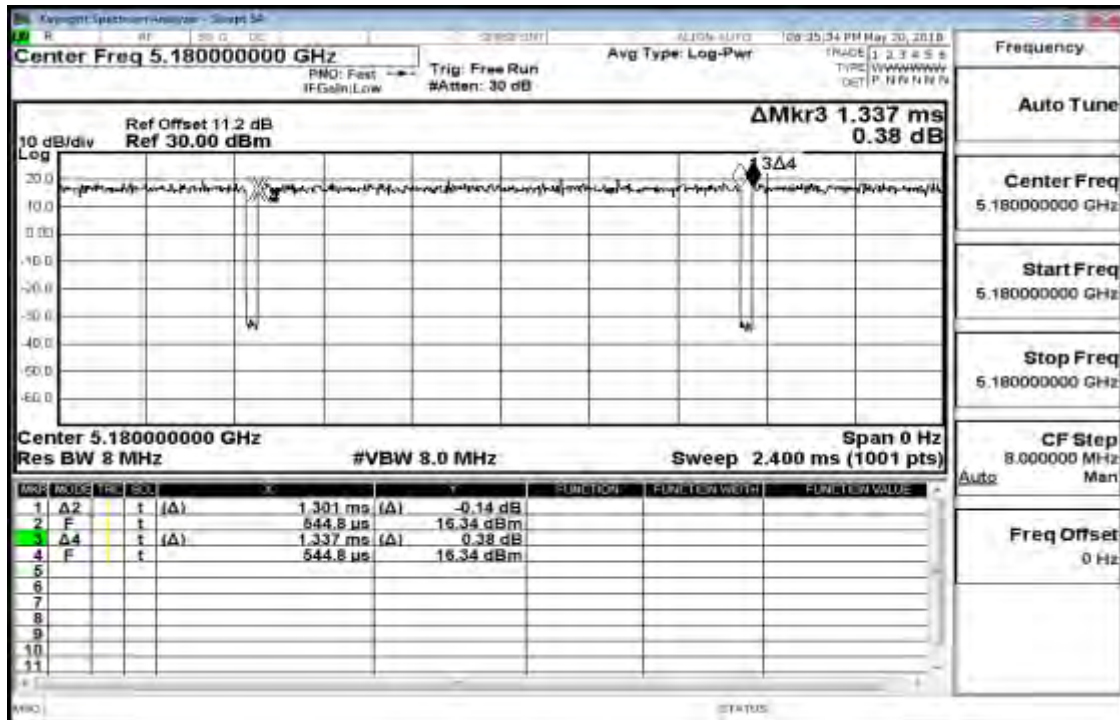
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DUTY CYCLE TEST SIGNAL Measurement Result 802.11a



802.11n HT20

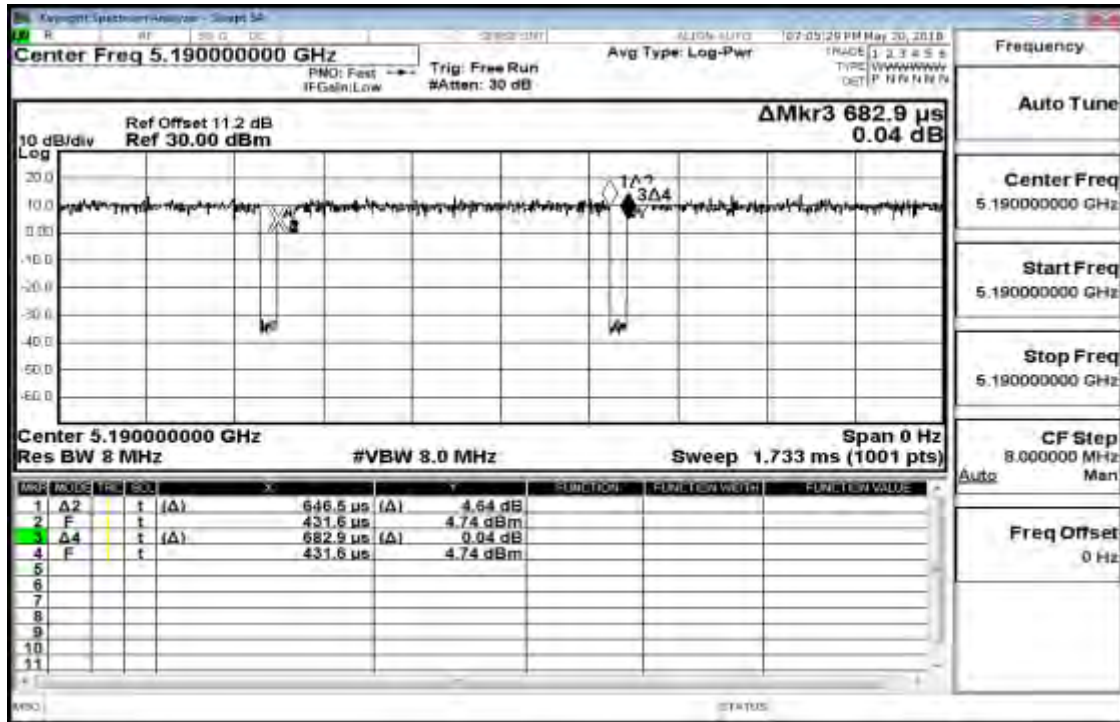


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802.11n HT 40



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8 26DB & 6DB EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C.
The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3

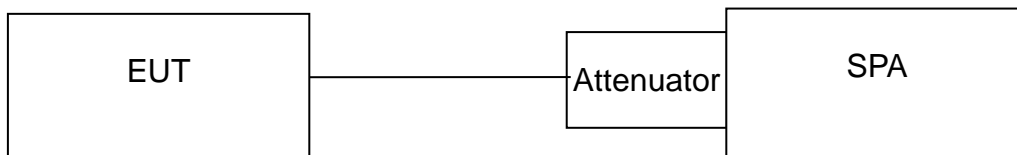
8.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
 - a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW Sweep=auto, Detector = Peak, Trace Mode = Max Hold, Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.
 - b. Mark the peak frequency and -26dB (upper and lower) frequency.
4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
5. Minimum Emission Bandwidth for the band 5.725-5.850GHz.
 - a. Set the spectrum analyzer as RBW = 100 kHz, VBW = 3*RBW, Span = 30M/50MHz, Detector=Peak, Sweep=auto
 - b. Mark the peak frequency and -6dB (upper and lower) frequency.
6. Repeat above procedures until all test default channel measured were complete.

8.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	Agilent	N9010A	MY51440113	06/21/2017	06/20/2018
Attenuator	Marvelous	MVE2213-10	RF31	12/26/2017	12/25/2018
DC Block	PASTERNAK	PE8210	RF81	12/26/2017	12/25/2018
Coaxial Cables	Woken	00100A1F1A185C	RF229	12/26/2017	12/25/2018

8.4 Test Set-up



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8.5 Measurement Result

26dB Bandwidth

802.11a_Main

802.11n_HT20_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	29.74	14.733	5180	30.00	14.771
5220	29.32	14.672	5220	29.96	14.765
5240	29.15	14.646	5240	29.99	14.770
5260	28.80	14.594	5260	29.98	14.769
5300	29.03	14.628	5300	29.90	14.757
5320	28.46	14.542	5320	30.00	14.771
5500	19.18	12.828	5500	29.91	14.759
5580	30.00	14.771	5580	30.00	14.771
5700	19.10	12.810	5700	30.00	14.771

802.11n_HT40_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	46.30	16.655
5230	50.00	16.990
5270	50.00	16.990
5310	49.97	16.987
5510	39.67	15.985
5550	50.00	16.990
5670	49.76	16.969

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6dB Bandwidth (5725 MHz~ 5850 MHz) measure with Peak detector for FCC

802.11a_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.06	11.779	5745	15.13	11.800
5785	16.06	12.058	5785	16.94	12.290
5825	15.16	11.806	5825	15.04	11.774

802.11n_HT20_Main

802.11n_HT40_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.09	15.451
5795	35.18	15.463

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802.11a_Main

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.19	< 5250
5745	5736.72	> 5725

802.11n_HT20_Main

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.79	< 5250
5745	5736.09	> 5725

802.11n_HT40_Main

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5230	5247.95	< 5250
5755	5736.90	> 5725

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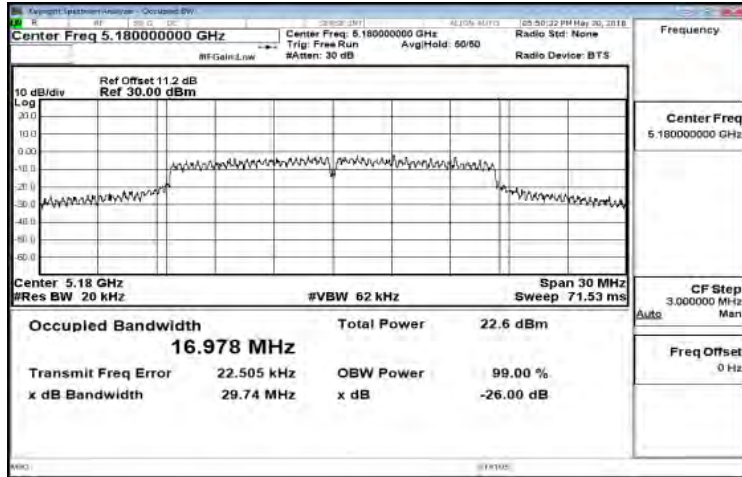
t (886-2) 2299-3279

f (886-2) 2298-0488

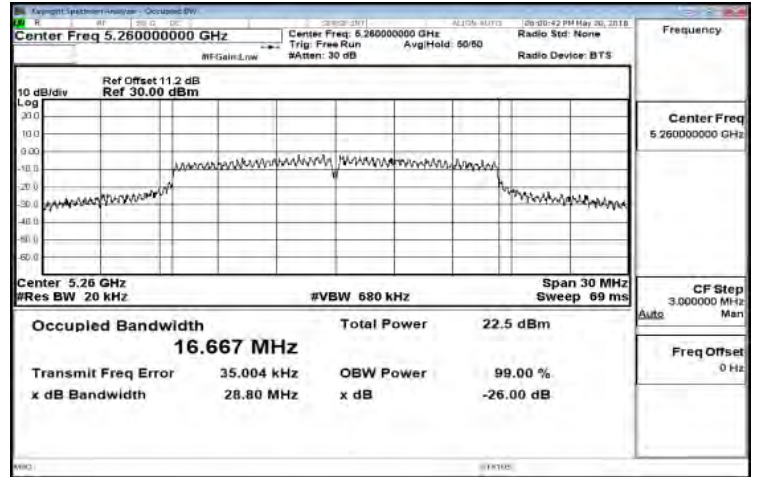
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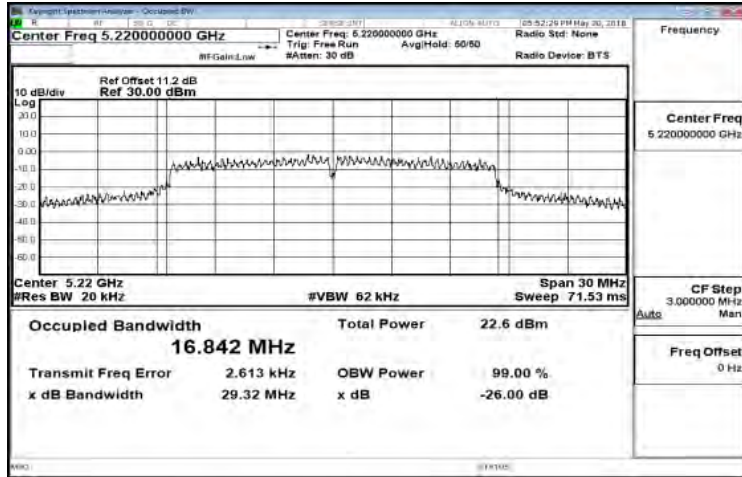
802.11a, 5150~5250 MHz
26dB Band Width Test Data CH-Low (5180MHz)



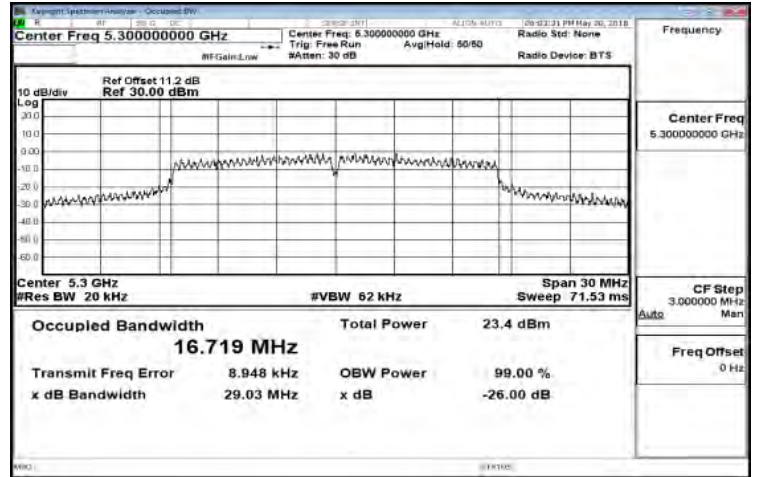
802.11a, 5250~5350 MHz
26dB Band Width Test Data CH-Low (5260MHz)



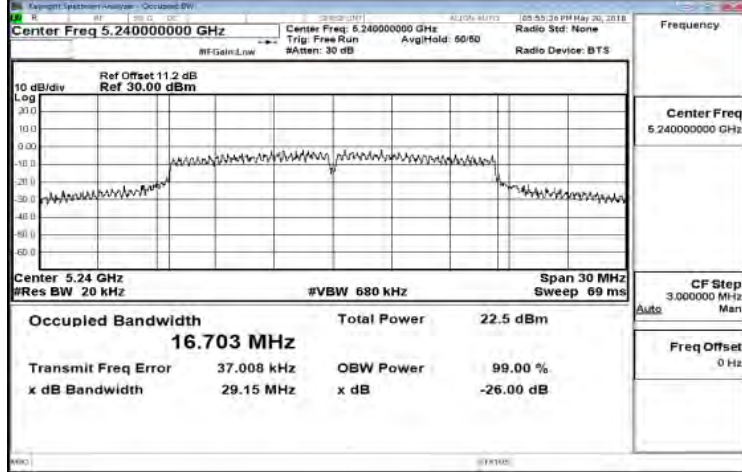
26dB Band Width Test Data CH-Mid (5220MHz)



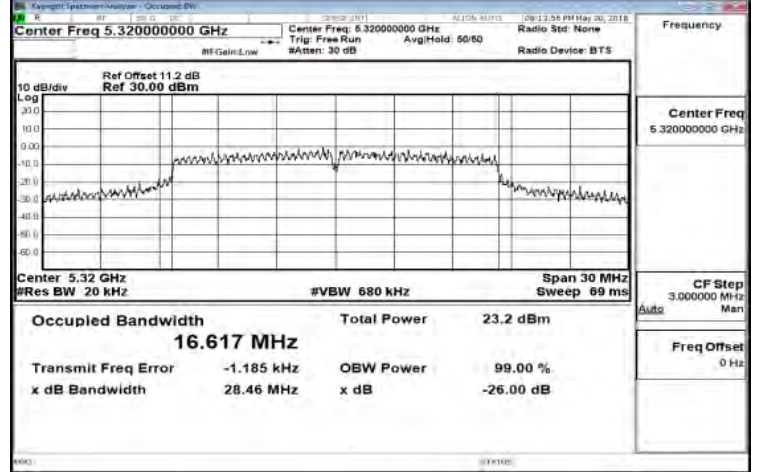
26dB Band Width Test Data CH-Mid (5300MHz)



26dB Band Width Test Data CH-High (5240MHz)



26dB Band Width Test Data CH-High (5320MHz)



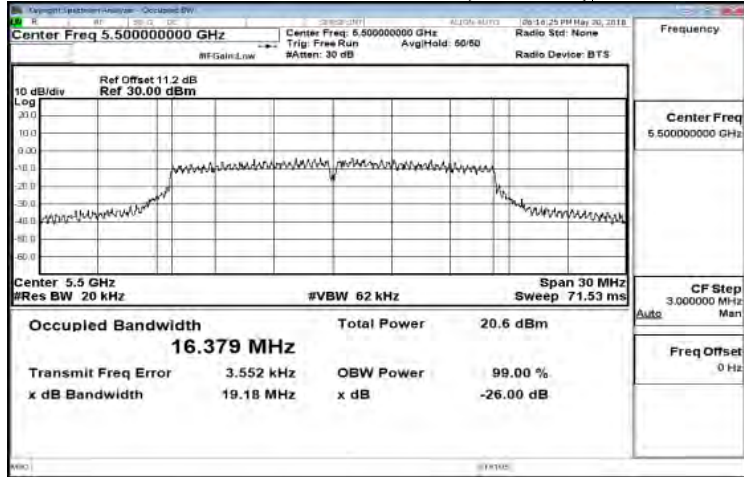
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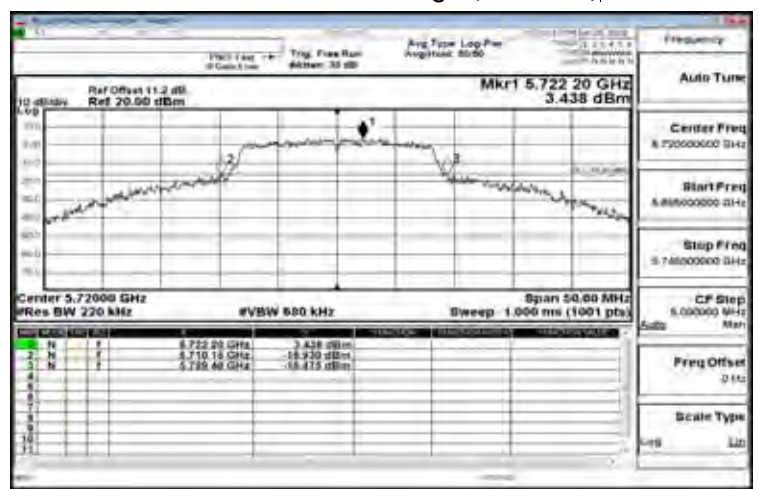
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802.11a, 5470~5725 MHz

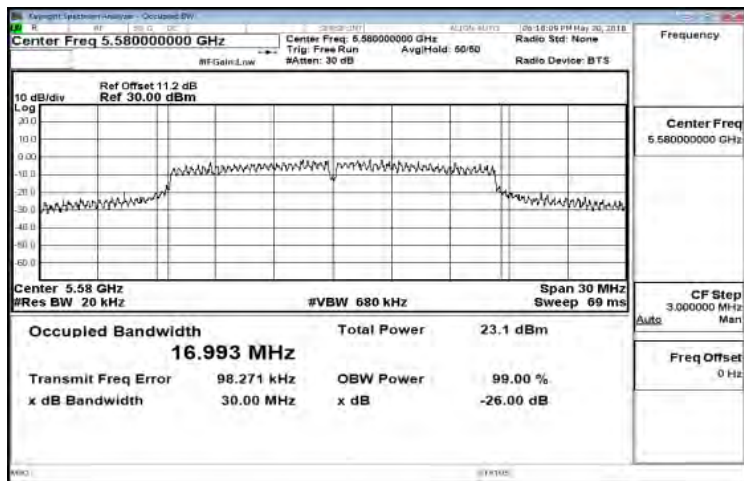
26dB Band Width Test Data CH-Low (5500MHz)



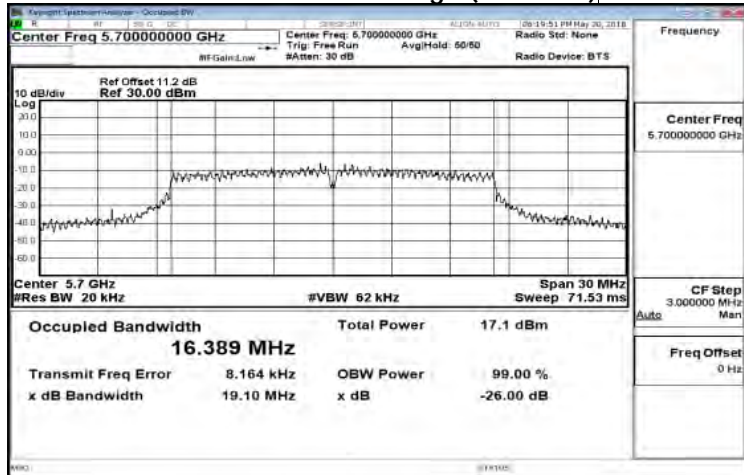
26dB Band Width Test Data CH-High (5720MHz)



26dB Band Width Test Data CH-Mid (5580MHz)



26dB Band Width Test Data CH-High (5700MHz)



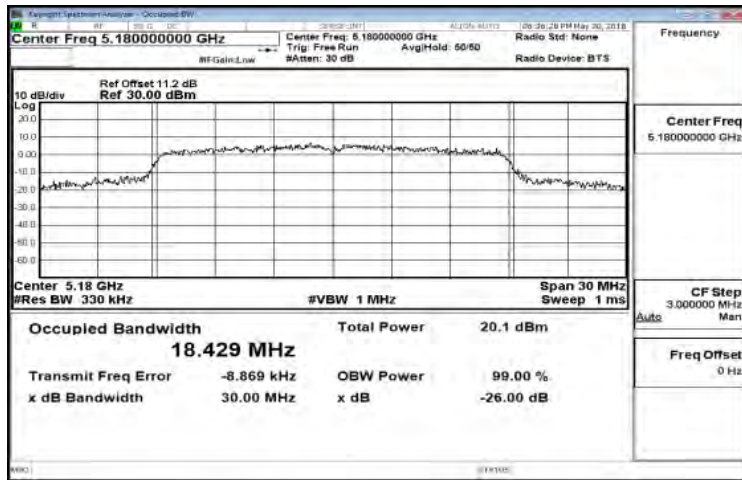
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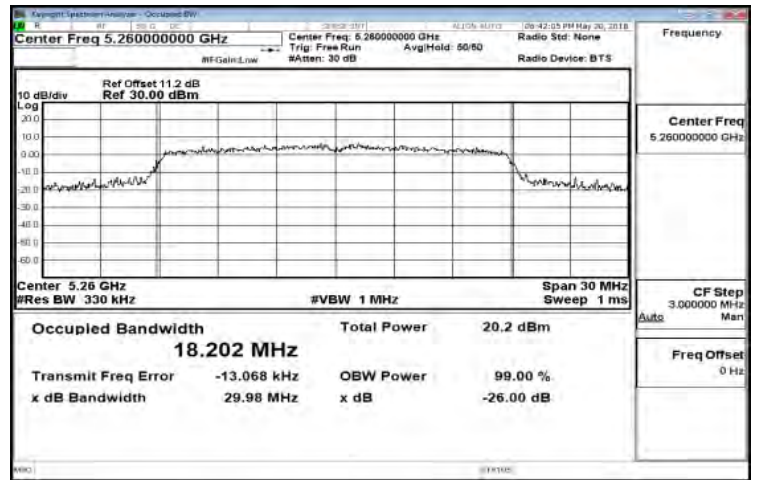
802.11n HT20, 5150~5250 MHz

26dB Band Width Test Data CH-Low (5180 MHz)

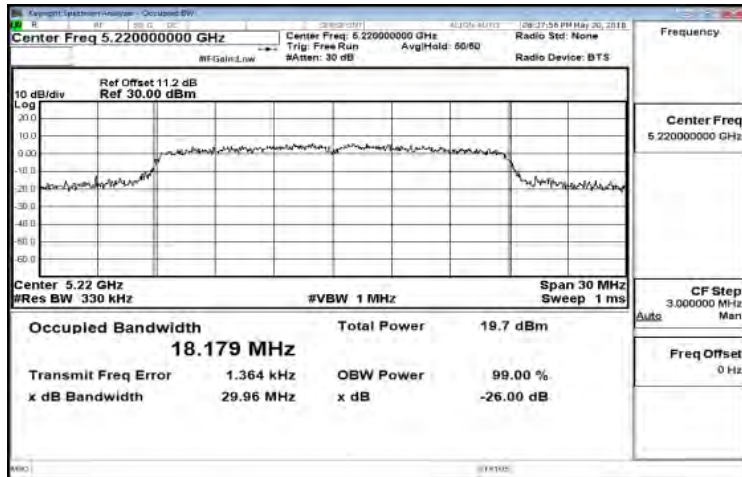


802.11n HT20, 5250~5350 MHz

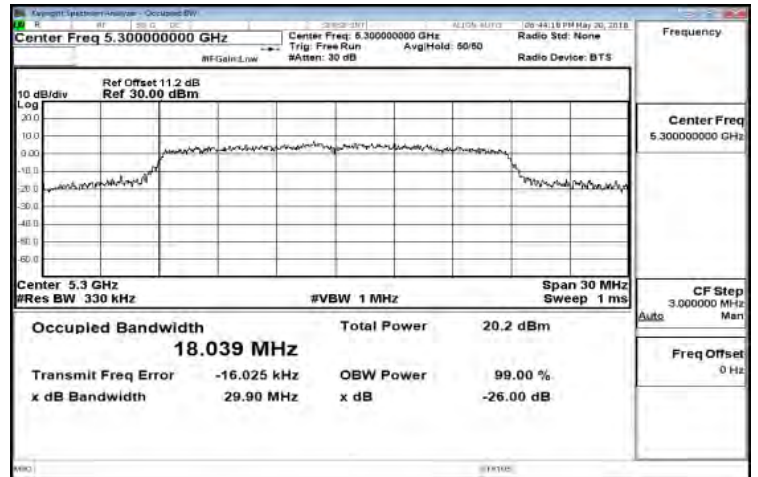
26dB Band Width Test Data CH-Low (5260 MHz)



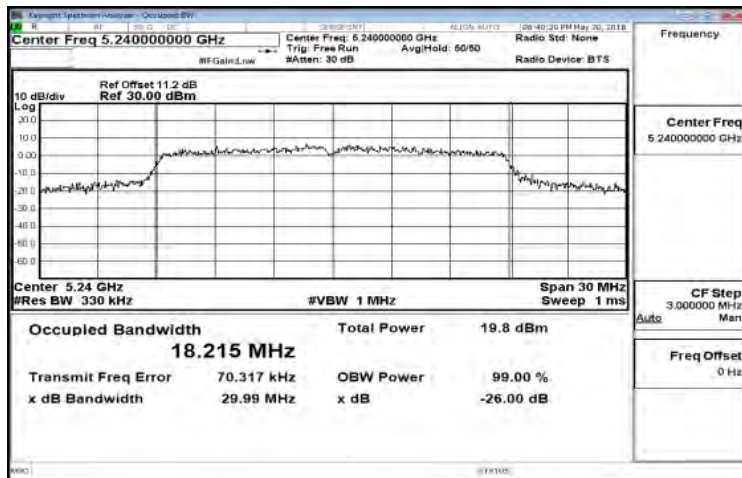
26dB Band Width Test Data CH-Mid (5220 MHz)



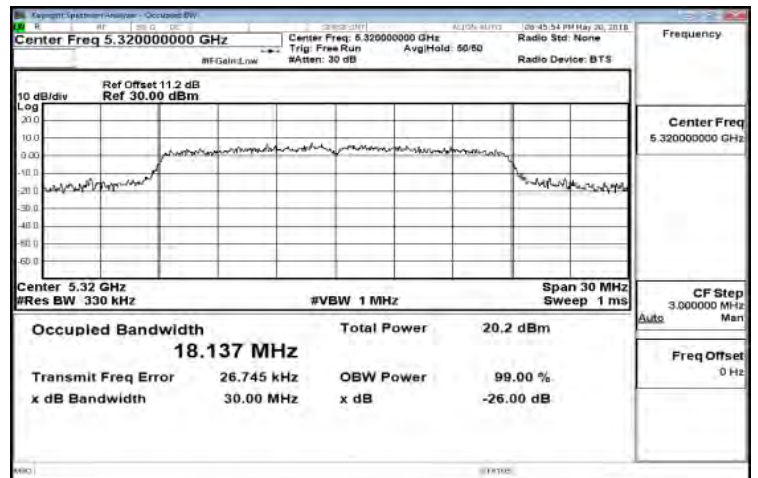
26dB Band Width Test Data CH-Mid (5300 MHz)



26dB Band Width Test Data CH-High (5240 MHz)



26dB Band Width Test Data CH-High (5320 MHz)



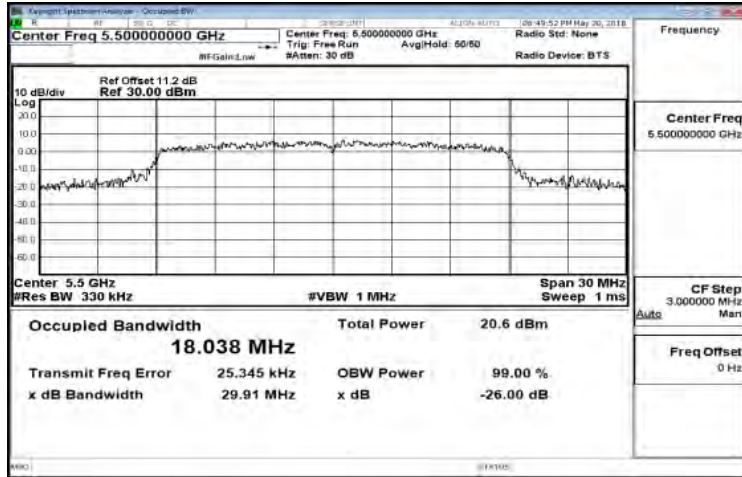
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802.11n HT20, 5470~5725 MHz

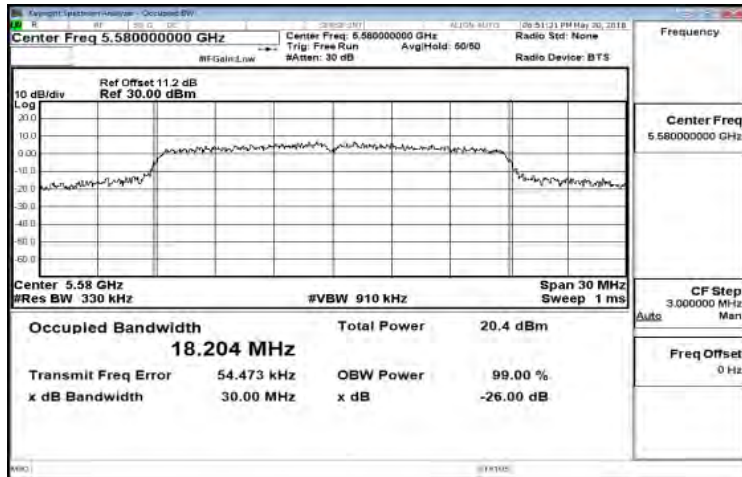
26dB Band Width Test Data CH-Low (5500 MHz)



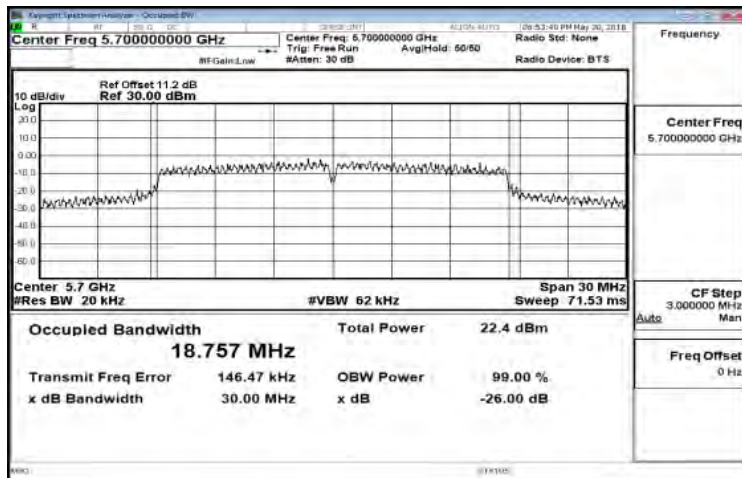
26dB Band Width Test Data CH-High (5720 MHz)



26dB Band Width Test Data CH-Mid (5580 MHz)



26dB Band Width Test Data CH-High (5700 MHz)



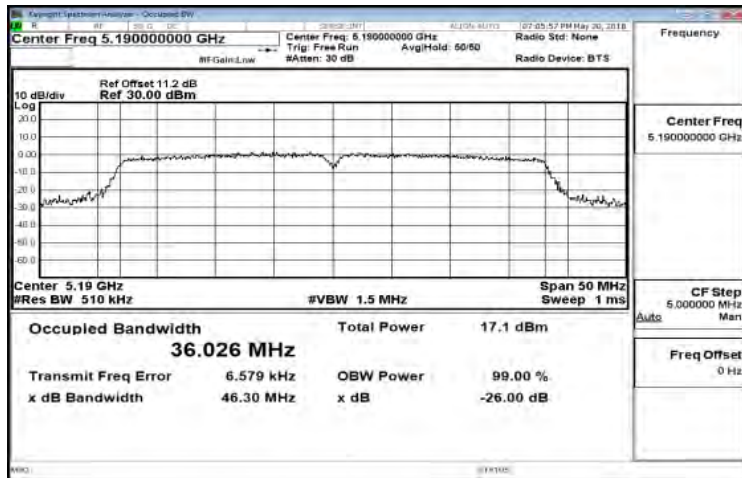
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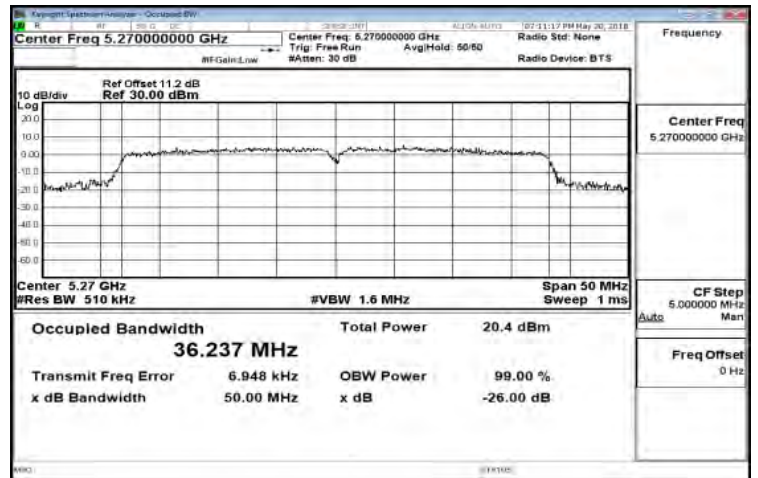
802.11n HT40, 5150~5250 MHz

26dB Band Width Test Data CH-Low (5190 MHz)



802.11n HT40, 5250~5350 MHz

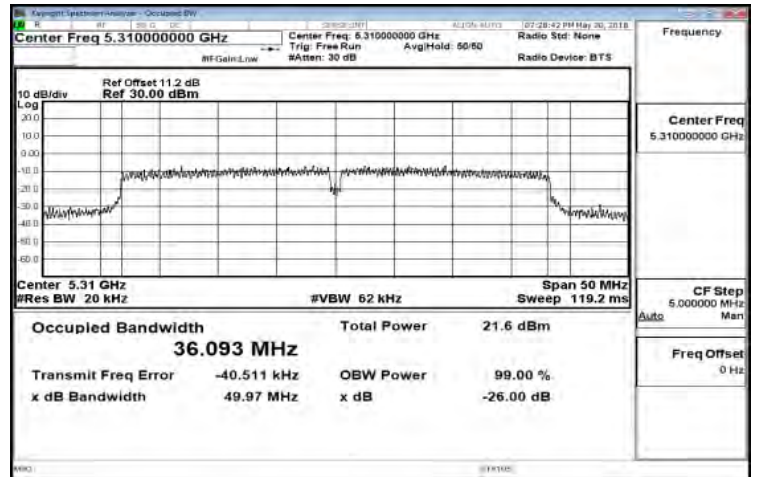
26dB Band Width Test Data CH-Low (5270 MHz)



26dB Band Width Test Data CH-High (5230 MHz)



26dB Band Width Test Data CH-High (5310MHz)



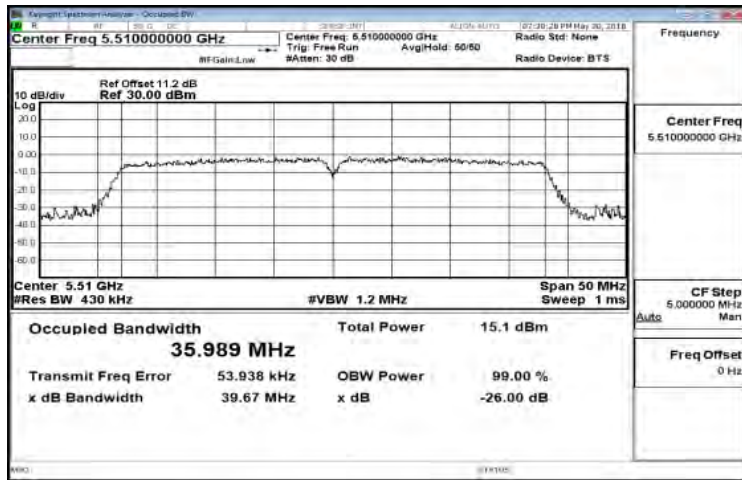
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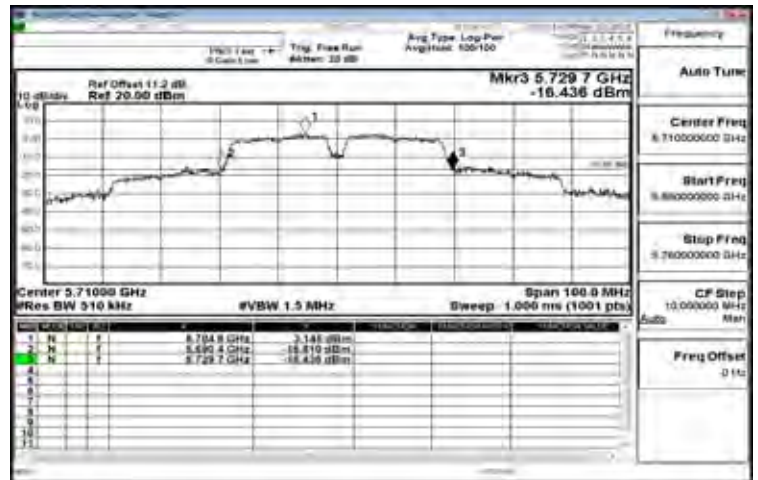
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802.11n HT40, 5470~5725 MHz

26dB Band Width Test Data CH-Low (5510 MHz)



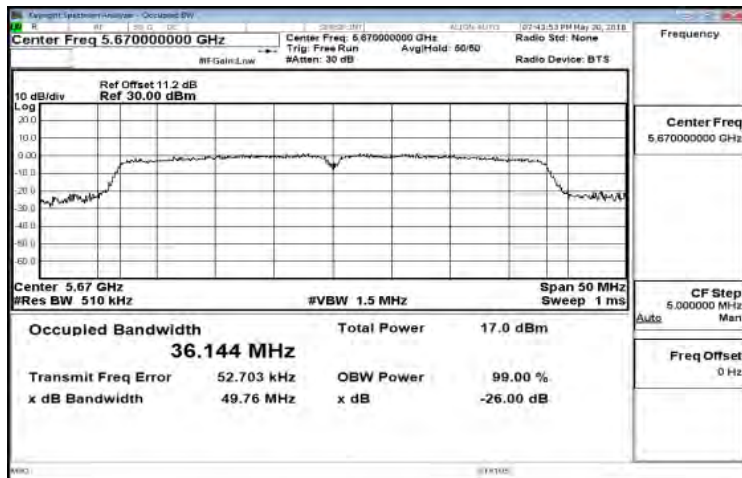
26dB Band Width Test Data CH-High (5710 MHz)



26dB Band Width Test Data CH-Mid (5550 MHz)



26dB Band Width Test Data CH-High (5670 MHz)



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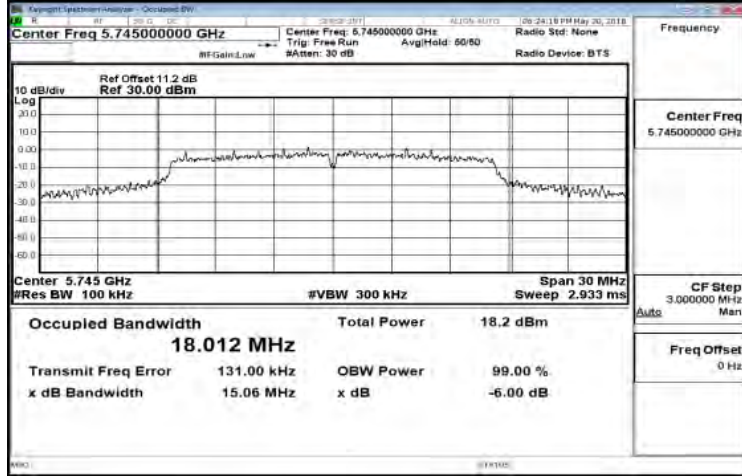
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6dB Band Width measure with Peak detector for FCC

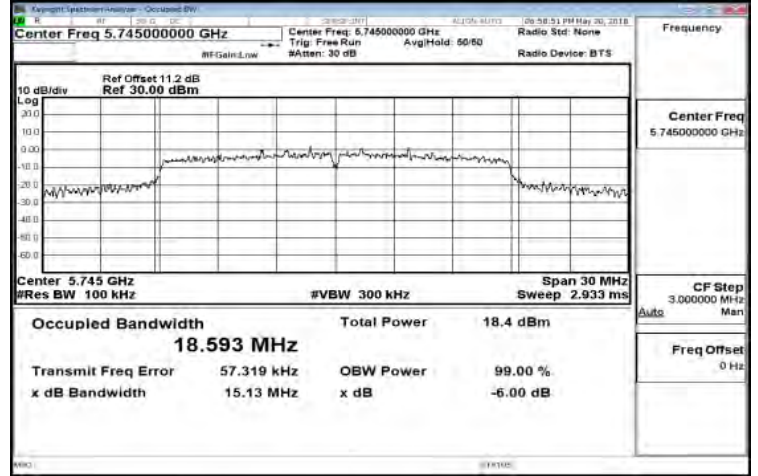
802.11a, 5725~5850 MHz

6dB Band Width Test Data CH-Low (5745 MHz)

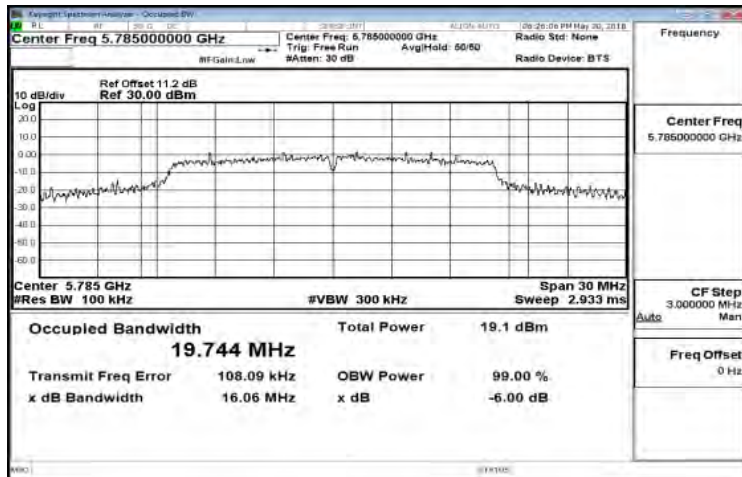


802.11n_HT20, 5725~5850 MHz

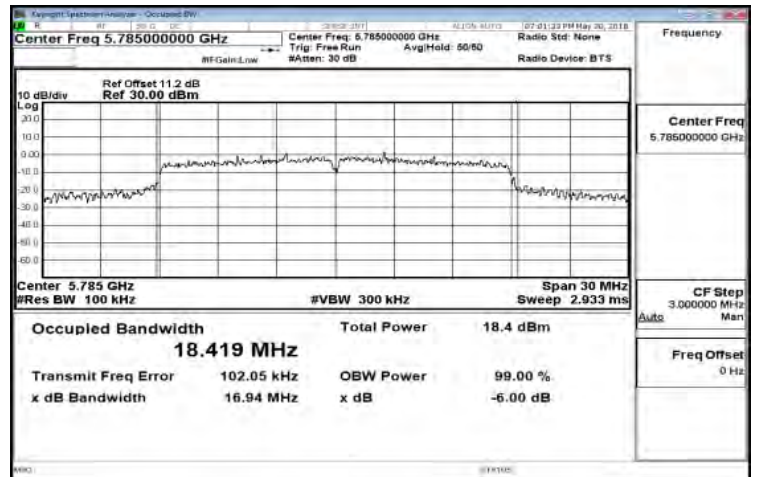
6dB Band Width Test Data CH-Low (5745 MHz)



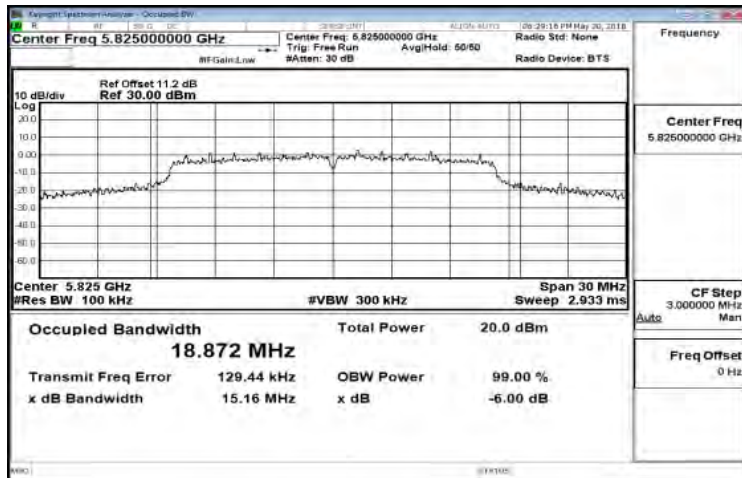
6dB Band Width Test Data CH-Mid (5785 MHz)



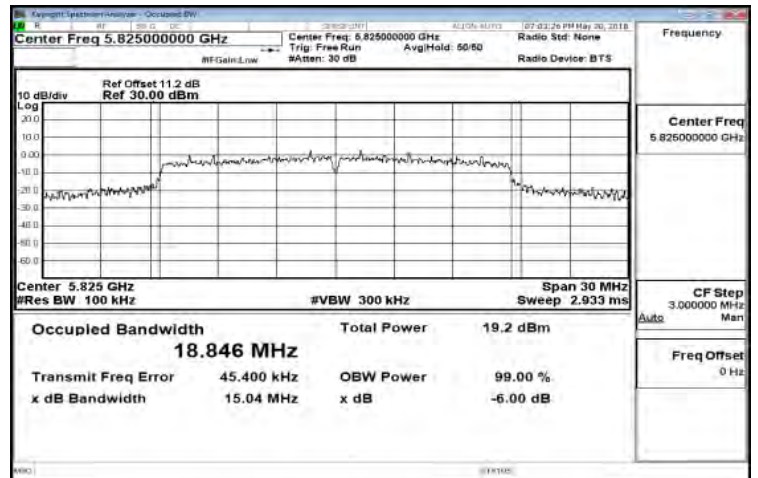
6dB Band Width Test Data CH-Mid (5785 MHz)



6dB Band Width Test Data CH-High (5825 MHz)



6dB Band Width Test Data CH-High (5825 MHz)

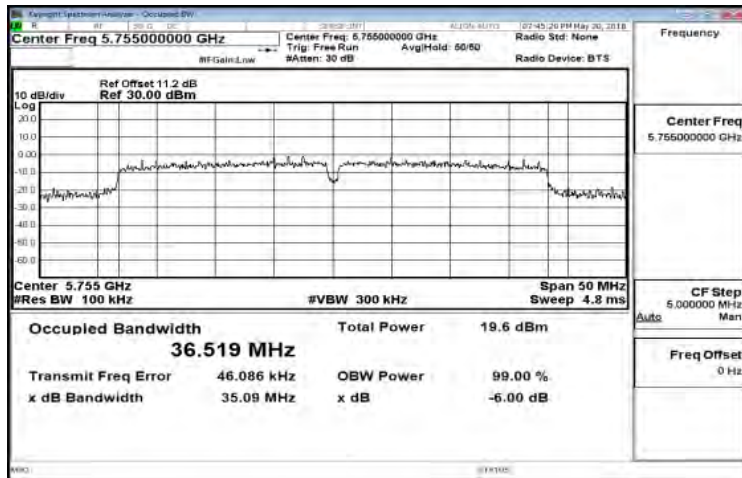


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802.11n_HT40, 5725~5850 MHz
6dB Band Width Test Data CH-Low (5755 MHz)



6dB Band Width Test Data CH-Mid (5795 MHz)

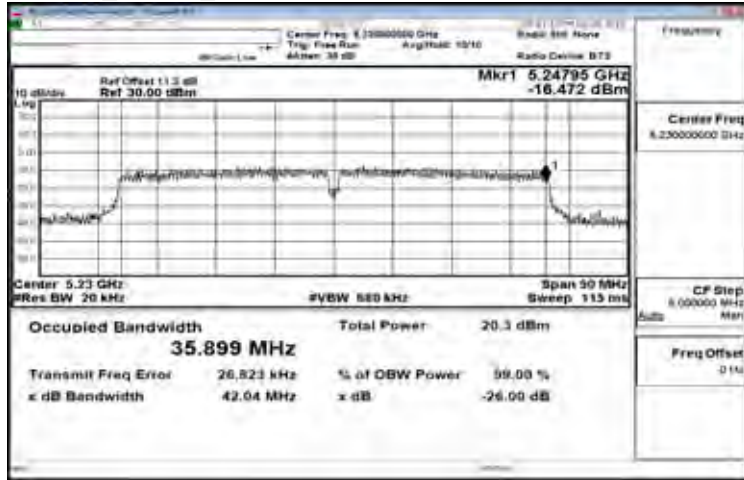


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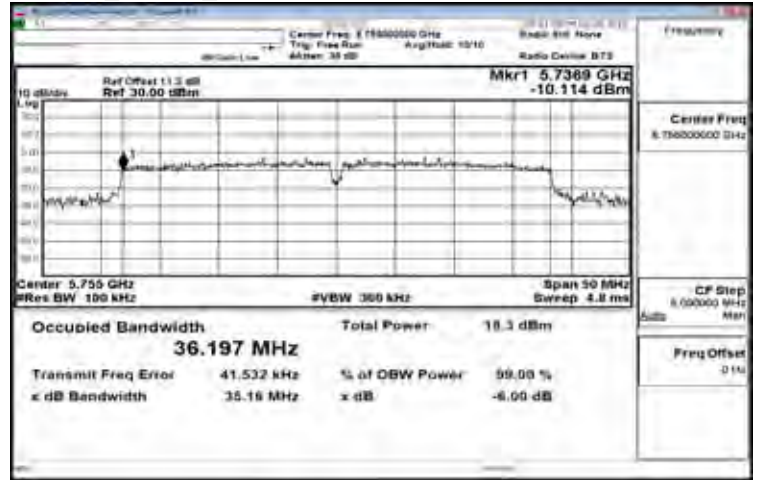
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802.11n_40MHz_5230MHz



802.11n_40MHz_5755MHz



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9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Master device)	1 Watt(30dBm)
		Fixed point-to-point Acces Ponit	1 Watt(30dBm)
	√	Mobile and portable clinet device	250mW(23.98dBm)
U-NII-2A	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-2C	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-3	√		1 Watt(30dBm)

9.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add 10 log(1/duty cycle).
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

9.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equip-ment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Power Meter	Anritsu	ML2496A	1326001	07/26/2017	07/25/2018
Power Sensor	Anritsu	MA2411B	1315048	07/26/2017	07/25/2018
Power Sensor	Anritsu	MA2411B	1315049	07/26/2017	07/25/2018
Attenuator	Marvelous	MVE2213-10	RF31	12/26/2017	12/25/2018
Coaxial Cables	Woken	00100A1F1A185C	RF229	12/26/2017	12/25/2018

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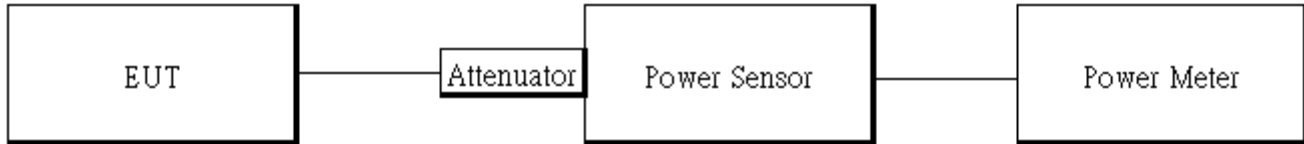
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9.4 Test Set-up



9.5 Measurement Result

Conducted output power (FCC)

802.11a_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	16.94	49.431	23.98	PASS
44	5220	6	16.90	48.977	23.98	PASS
48	5240	6	16.72	46.989	23.98	PASS
52	5260	6	16.60	45.708	23.98 or $11+10\log(B) = 25.59$	PASS
60	5300	6	16.54	45.081	23.98 or $11+10\log(B) = 25.63$	PASS
64	5320	6	16.55	45.185	23.98 or $11+10\log(B) = 25.54$	PASS
100	5500	6	14.34	27.185	23.98 or $11+10\log(B) = 23.83$	PASS
116	5580	6	16.78	47.643	23.98 or $11+10\log(B) = 25.77$	PASS
140	5700	6	12.23	16.724	23.98 or $11+10\log(B) = 23.81$	PASS
144	5720(U-NII 2C)	6	15.67	36.898	23.98 or $11+10\log(B) = 24.74$	PASS
144	5720 (U-NII 3)	6	1.11	1.291	30	PASS
149	5745	6	15.94	39.264	30	PASS
157	5785	6	15.78	37.844	30	PASS
165	5825	6	15.72	37.325	30	PASS

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802.11n_HT20_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	15.76	37.699	23.98	PASS
44	5220	MCS0	15.71	37.268	23.98	PASS
48	5240	MCS0	15.74	37.526	23.98	PASS
52	5260	MCS0	15.67	36.926	23.98 or $11+10\log(B) = 25.77$	PASS
60	5300	MCS0	15.69	37.097	23.98 or $11+10\log(B) = 25.76$	PASS
64	5320	MCS0	15.68	37.011	23.98 or $11+10\log(B) = 25.77$	PASS
100	5500	MCS0	14.37	27.346	23.98 or $11+10\log(B) = 25.76$	PASS
116	5580	MCS0	15.89	38.845	23.98 or $11+10\log(B) = 25.77$	PASS
140	5700	MCS0	11.01	12.615	23.98 or $11+10\log(B) = 25.77$	PASS
144	5720(U-NII 2C)	MCS0	12.42	17.438	23.98 or $11+10\log(B) = 24.36$	PASS
144	5720 (U-NII 3)	MCS0	3.60	2.290	30	PASS
149	5745	MCS0	15.55	35.920	30	PASS
157	5785	MCS0	15.52	35.673	30	PASS
165	5825	MCS0	15.51	35.590	30	PASS

802.11n_HT40_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	11.94	15.641	23.98	PASS
46	5230	MCS0	15.66	36.783	23.98	PASS
54	5270	MCS0	15.77	37.727	23.98 or $11+10\log(B) = 27.99$	PASS
62	5310	MCS0	12.60	18.209	23.98 or $11+10\log(B) = 27.99$	PASS
102	5510	MCS0	10.98	12.539	23.98 or $11+10\log(B) = 26.98$	PASS
110	5550	MCS0	15.36	34.328	23.98 or $11+10\log(B) = 27.99$	PASS
134	5670	MCS0	12.34	17.150	23.98 or $11+10\log(B) = 27.97$	PASS
142	5710(U-NII 2C)	MCS0	11.89	15.453	23.98 or $11+10\log(B) = 27.37$	PASS
142	5710 (U-NII 3)	MCS0	0.55	1.135	30	PASS
151	5755	MCS0	15.52	35.616	30	PASS
159	5795	MCS0	15.49	35.371	30	PASS

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10 PEAK POWER SPECTRAL DENSITY

10.1 Standard Applicable

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Master device)	17dBm/ MHz
		Fixed point-to-point Access Ponit	
	√	Mobile and portable clinet device	11dBm/ MHz
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

10.2 Measurement Procedure

- Place the EUT on the table and set it in transmitting mode.
- The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
- For U-NII1, U-NII-2A, U-NII-2C Band:**
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
For U-NII-3 Band:
Set RBW=500 kHz, VBW≥ 3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
- User the cursor on spectrum to peak search the highest level of trace
- Record the max. reading and add $10 \log(1/\text{duty cycle})$.
- Repeat above procedures until all default test channel (low, middle, and high) was complete.

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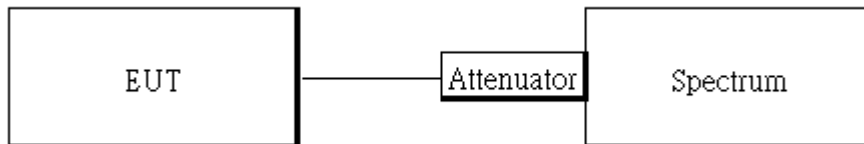
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10.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	Agilent	N9010A	MY51440113	06/21/2017	06/20/2018
Attenuator	Marvelous	MVE2213-10	RF31	12/26/2017	12/25/2018
DC Block	PASTERNAK	PE8210	RF81	12/26/2017	12/25/2018
Coaxial Cables	Woken	00100A1F1A185C	RF229	12/26/2017	12/25/2018

10.4 Test Set-up



10.5 Measurement Result

POWER DENSITY 802.11a MODE						
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	3.92	11.20	0.11	4.03	11	-6.97
5220	3.70	11.20	0.11	3.81	11	-7.19
5240	3.98	11.20	0.11	4.09	11	-6.91
5260	3.84	11.20	0.11	3.95	11	-7.05
5300	3.81	11.20	0.11	3.92	11	-7.08
5320	3.68	11.20	0.11	3.79	11	-7.21
5500	0.56	11.20	0.11	0.67	11	-10.33
5580	4.45	11.20	0.11	4.56	11	-6.44
5700	-1.30	11.20	0.11	-1.19	11	-12.19
5720 (U-NII 2C)	-0.50	11.20	0.11	-0.38	11	-11.38
5720 (U-NII 3)	-2.00	11.20	0.11	-1.88	30	-31.88
5745	5.93	11.20	0.11	5.93	30	-24.07
5785	7.43	11.20	0.11	7.43	30	-22.57
5825	7.18	11.20	0.11	7.18	30	-22.82

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POWER DENSITY 802.11n HT20 MODE						
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	2.86	11.20	0.12	2.98	11	-8.02
5220	3.06	11.20	0.12	3.18	11	-7.82
5240	3.27	11.20	0.12	3.39	11	-7.61
5260	2.32	11.20	0.12	2.44	11	-8.56
5300	3.16	11.20	0.12	3.28	11	-7.72
5320	2.58	11.20	0.12	2.70	11	-8.30
5500	2.74	11.20	0.12	2.86	11	-8.14
5580	2.80	11.20	0.12	2.92	11	-8.08
5700	3.18	11.20	0.12	3.30	11	-7.70
5720 (U-NII 2C)	-1.95	11.20	0.12	-1.83	11	-12.83
5720 (U-NII 3)	-7.12	11.20	0.12	-7.00	30	-37.00
5745	6.42	11.20	0.12	6.42	30	-23.58
5785	6.22	11.20	0.12	6.22	30	-23.78
5825	6.81	11.20	0.12	6.81	30	-23.19

POWER DENSITY 802.11n HT40 MODE						
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190	-5.14	11.20	0.24	-4.90	11	-15.90
5230	-0.73	11.20	0.24	-0.49	11	-11.49
5270	-0.99	11.20	0.24	-0.75	11	-11.75
5310	-2.03	11.20	0.24	-1.79	11	-12.79
5510	-4.64	11.20	0.24	-4.40	11	-15.40
5550	-1.24	11.20	0.24	-1.00	11	-12.00
5670	-5.40	11.20	0.24	-5.16	11	-16.16
5710 (U-NII 2C)	31.67	11.20	0.24	31.91	11	20.91
5710 (U-NII 3)	4.30	11.20	0.24	4.54	30	-25.46
5755	3.95	11.20	0.24	3.95	30	-26.05
5795	3.82	11.20	0.24	3.82	30	-26.18

Note:

SISO offset=

11.2

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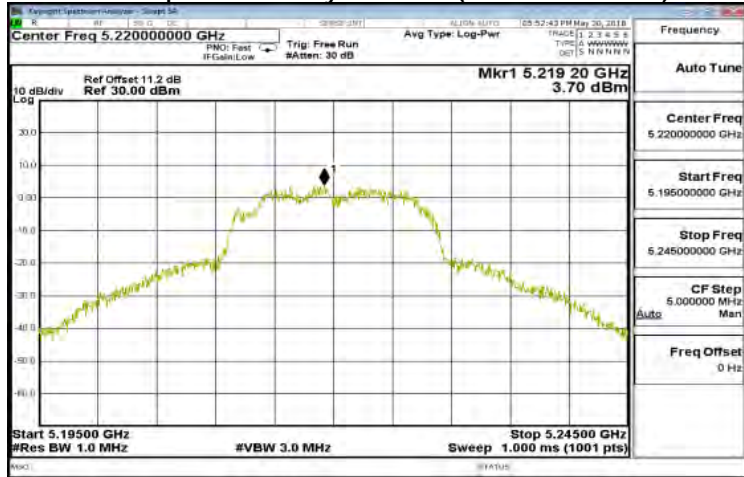
802.11a 5150~5250 MHz
Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



802.11a 5250~5350 MHz
Peak Power Spectral Density Data Plot (CH Low 5260 MHz)



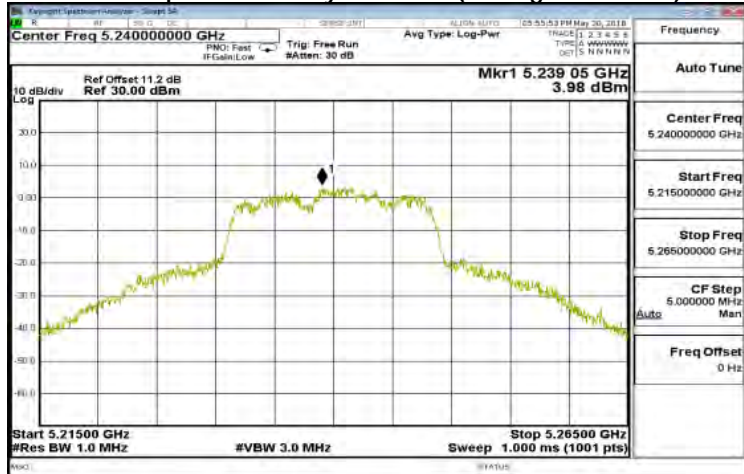
Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5300 MHz)



Peak Power Spectral Density Data Plot (CH High 5240 MHz)



Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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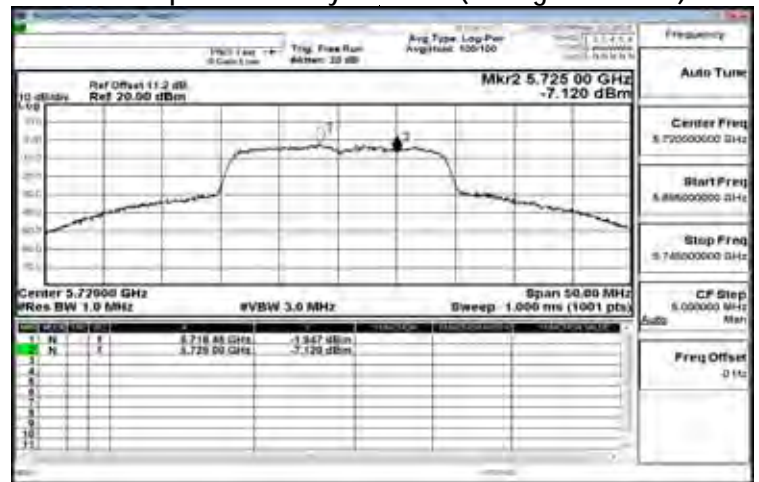
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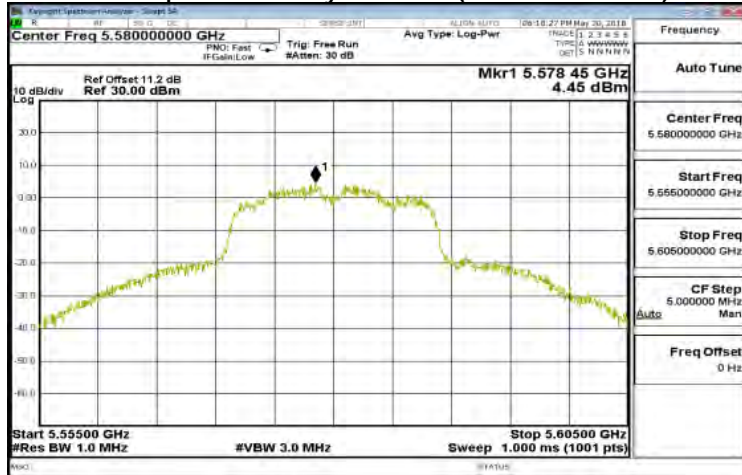
802.11a 5470~5725 MHz
Peak Power Spectral Density Data Plot (CH Low 5500 MHz)



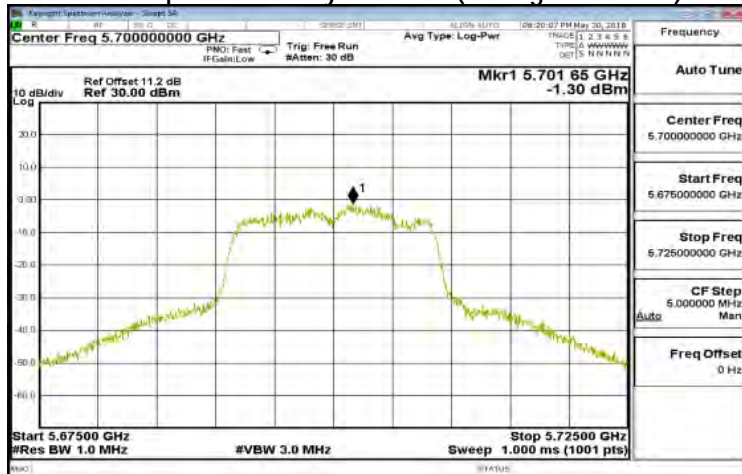
Peak Power Spectral Density Data Plot (CH High 5720 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5580 MHz)



Peak Power Spectral Density Data Plot (CH High 5700 MHz)



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802.11a 5725~5850 MHz
Peak Power Spectral Density Data Plot (CH Low 5745 MHz)



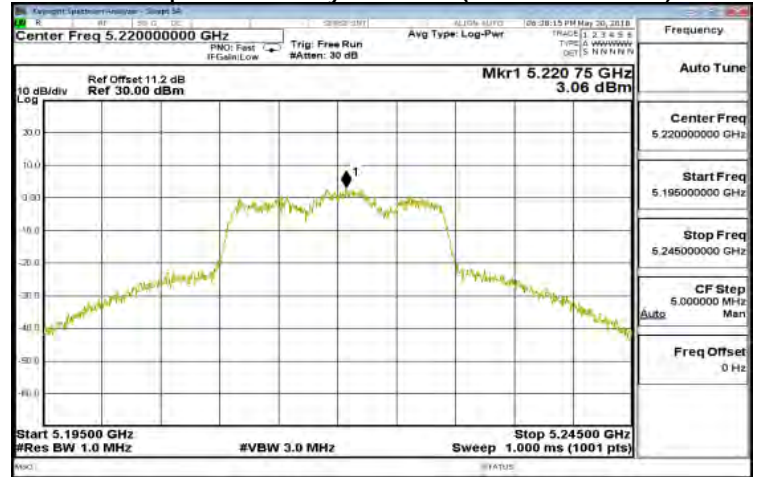
802.11n HT20, 5150~5250 MHz
Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



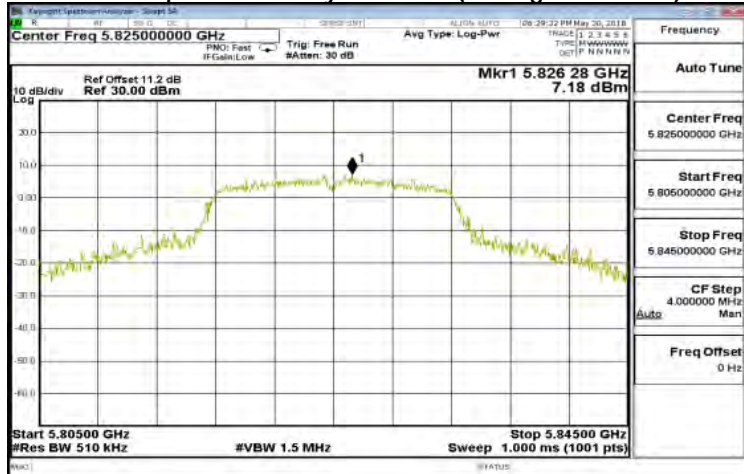
Peak Power Spectral Density Data Plot (CH Mid 5785 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



Peak Power Spectral Density Data Plot (CH High 5825 MHz)



Peak Power Spectral Density Data Plot (CH High 5240 MHz)



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802.11n HT20, 5250~5350 MHz
Peak Power Spectral Density Data Plot (CH Low 5260MHz)



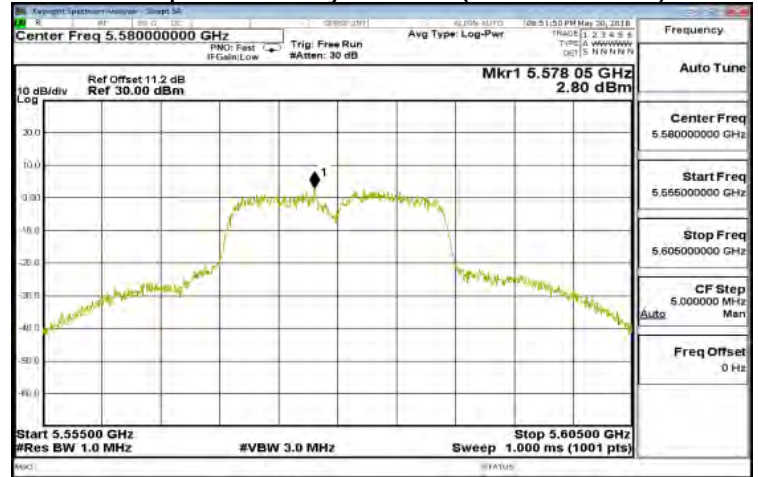
802.11n HT20, 5470~5725 MHz
Peak Power Spectral Density Data Plot (CH Low 5500 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5300 MHz)



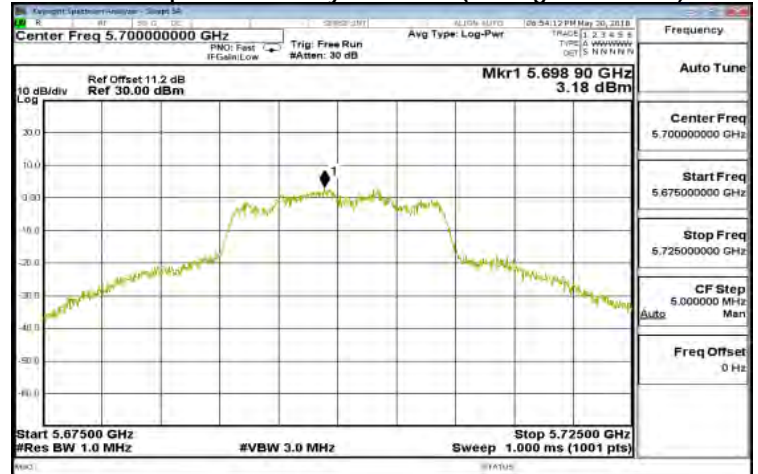
Peak Power Spectral Density Data Plot (CH Mid 5580MHz)



Peak Power Spectral Density Data Plot (CH High 5320 MHz)



Peak Power Spectral Density Data Plot (CH High 5700 MHz)

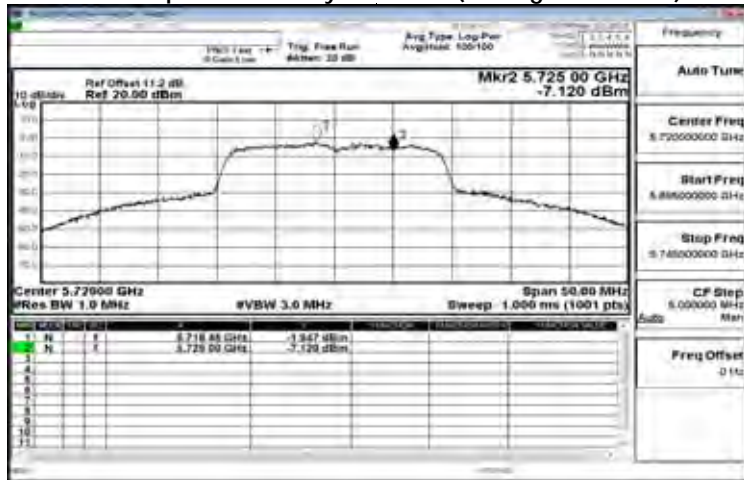


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Peak Power Spectral Density Data Plot (CH High 5720 MHz)

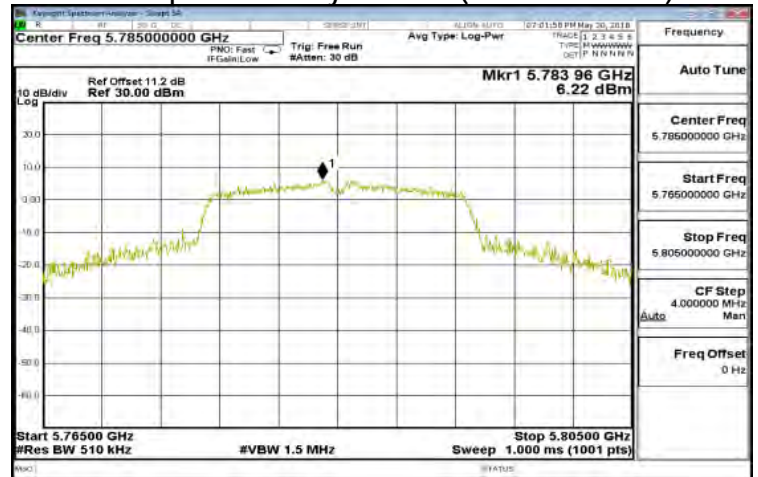


802.11n HT20, 5725-5850 MHz

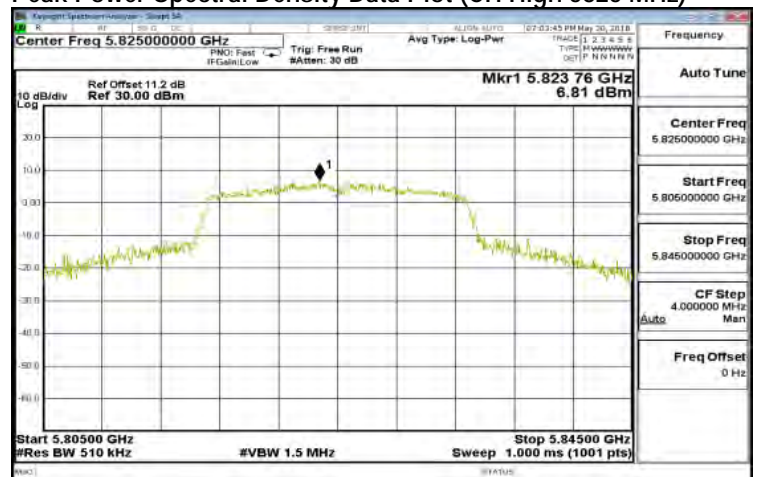
Peak Power Spectral Density Data Plot (CH Low 5745 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5785 MHz)



Peak Power Spectral Density Data Plot (CH High 5825 MHz)



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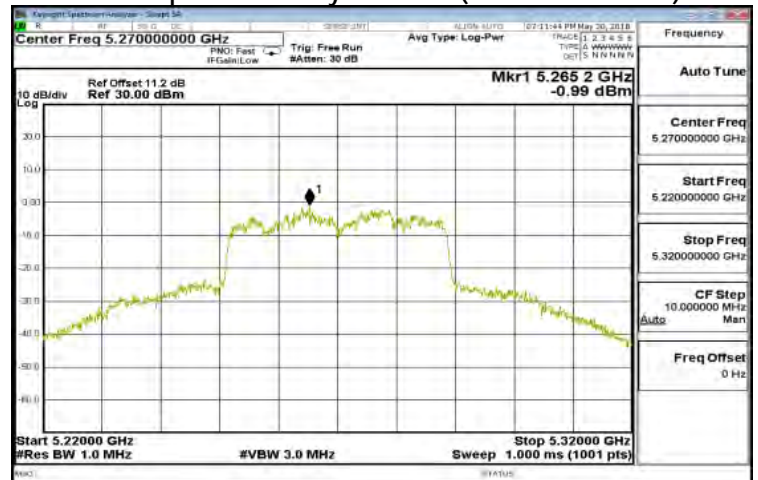
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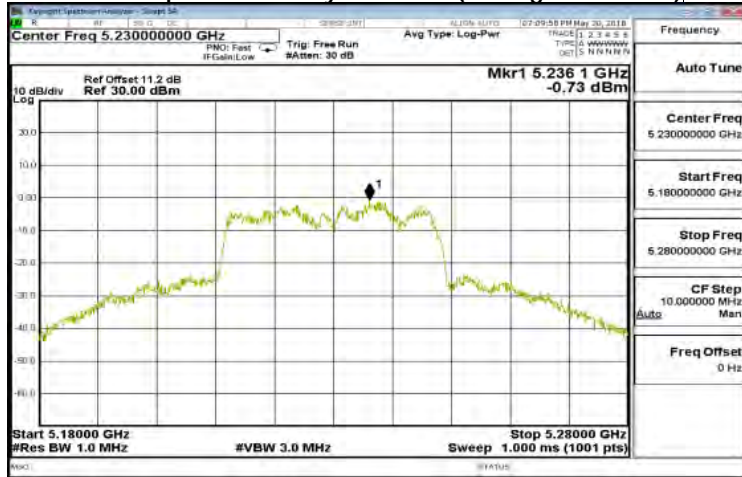
802.11n HT40, 5150~5250 MHz
Peak Power Spectral Density Data Plot (CH Low 5190 MHz)



802.11n HT40, 5250~5350 MHz
Peak Power Spectral Density Data Plot (CH Low 5270 MHz)



Peak Power Spectral Density Data Plot (CH High 5230 MHz)



Peak Power Spectral Density Data Plot (CH High 5310 MHz)



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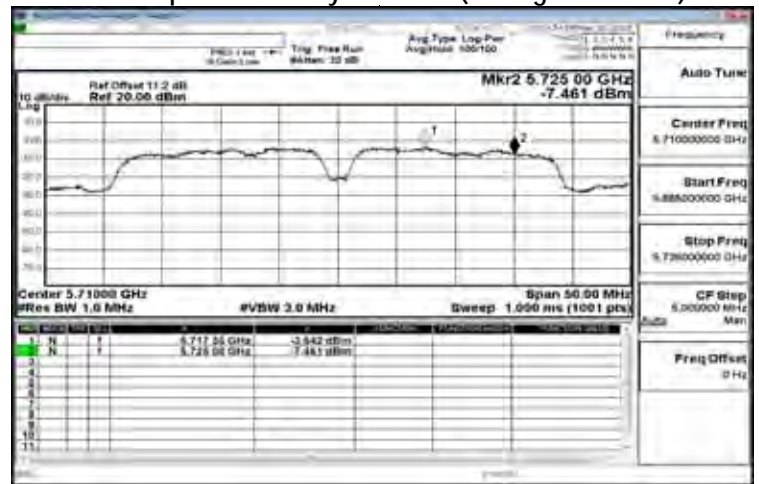
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802.11n HT40, 5470~5725 MHz
Peak Power Spectral Density Data Plot (CH Low 5510 MHz)



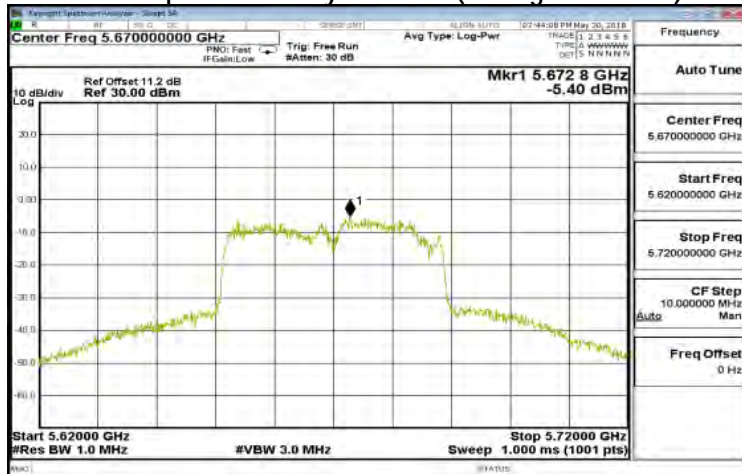
Peak Power Spectral Density Data Plot (CH High 5710 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5550 MHz)



Peak Power Spectral Density Data Plot (CH High 5670 MHz)



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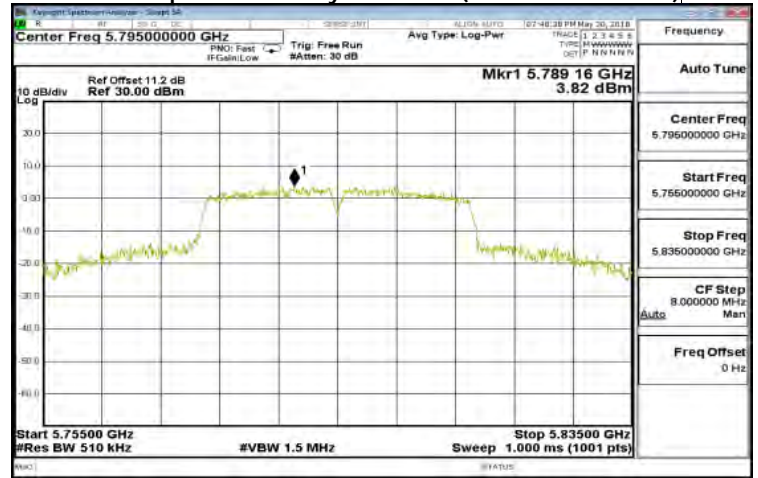
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802.11n HT40, 5725~5850 MHz
Peak Power Spectral Density Data Plot (CH Low 5755 MHz)



Peak Power Spectral Density Data Plot (CH Low 5795 MHz)



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11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
2. For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

APPLICABLE TO	LIMIT	
FCC KDB 789033 D02 General UNII Test Procedures New Rules	FIELD STRENGTH AT 3m	
	PK: 74 (dBμV/m)	AV 54 (dBμV/m)
APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.3 (dBμV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)(i)	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK:105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK:122.2 (dBμV/m) *4
*1 beyond 75 MHz or more above of the bandedge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

$EIRP = (E \cdot d)^2 / 30$, where E is the field in V/m, d is the measurement distance (3m), EIRP is the equivalent isotropically radiated power in Watts.

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Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

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 (dB μ V/m) = 20 log Emission level (dB μ V/m)

11.2 Measurement Equipment Used

SGS SAC-III					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Broadband Antenna	SCHWAZBECK	VULB 9168	9168-617	10/27/2017	10/26/2018
Horn Antenna	Schwarzbeck	BBHA9120D	1341	05/31/2017	05/30/2018
Loop Antenna	ETS.LINDGREN	6502	148045	09/26/2017	09/25/2018
3m Site NSA	SGS	966 chamber D	N/A	07/06/2018	07/05/2019
EMI Test Receiver	R&S	ESU 40	100363	04/11/2018	04/10/2019
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2017	10/26/2018
Pre-Amplifier	EMC Instruments	EMC9135	980234	12/26/2017	12/25/2018
Pre-Amplifier	EMC Instruments	EMC12630SE	980271	12/26/2017	12/25/2018
Attenuator	Marvelous	WATT-218FS-10	RF246	12/26/2017	12/25/2018
Highpass Filter	Micro Tronics	BRM50701-01	G008	12/26/2017	12/25/2018
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	12/26/2017	12/25/2018
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	12/26/2017	12/25/2018

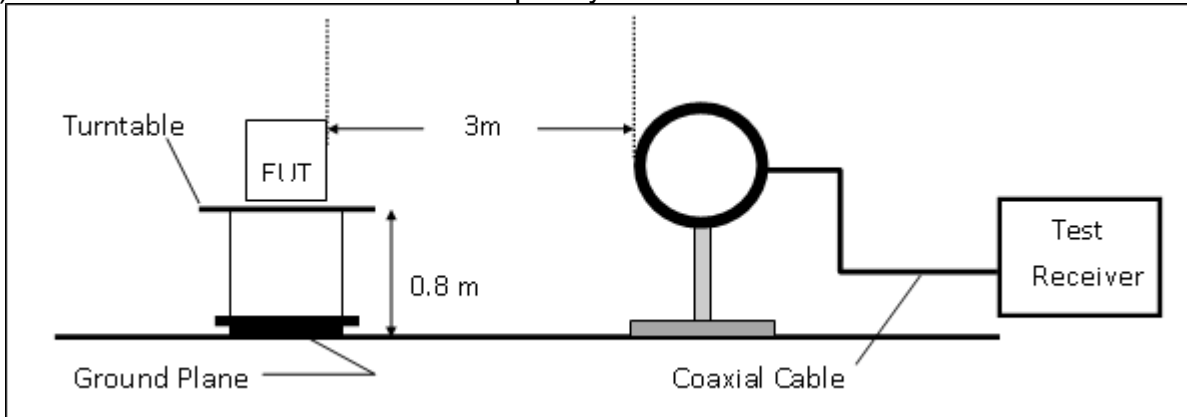
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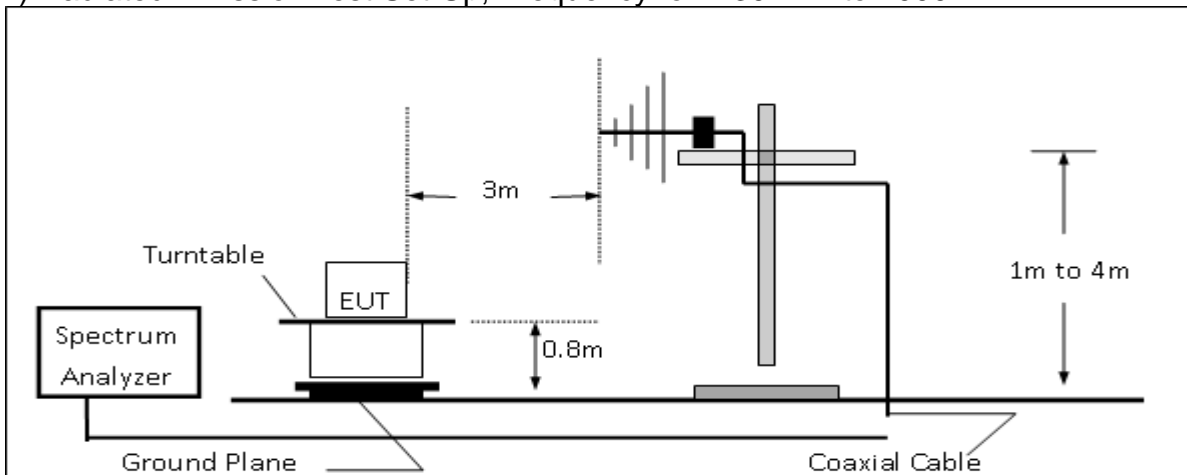
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11.3 Test SET-UP

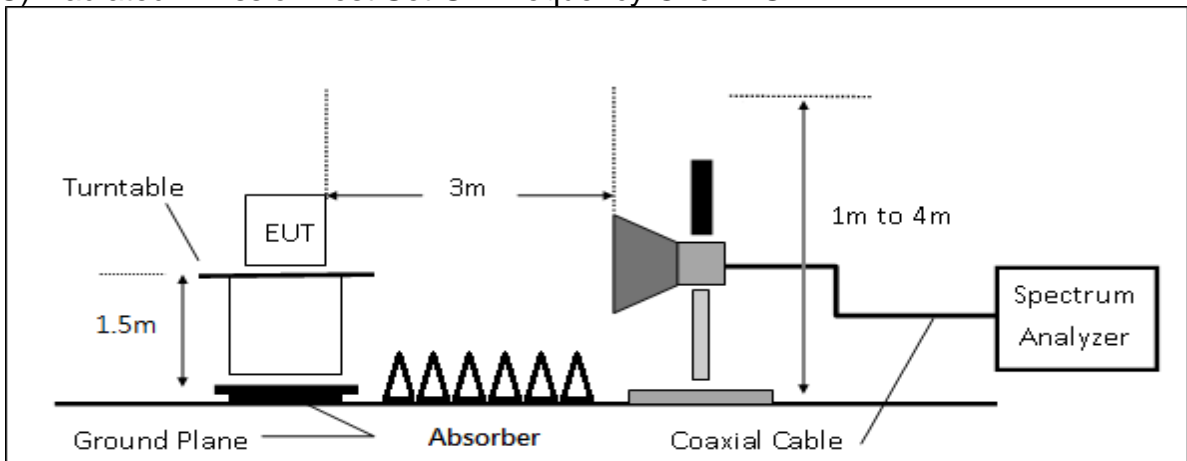
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



11.4 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .

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3. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
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. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. Repeat above procedures until all frequency measured were complete.

11.5 Field Strength Calculation

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

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

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

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

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

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

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

11.7 Measurement Result

Refer to attach tabular data sheets.

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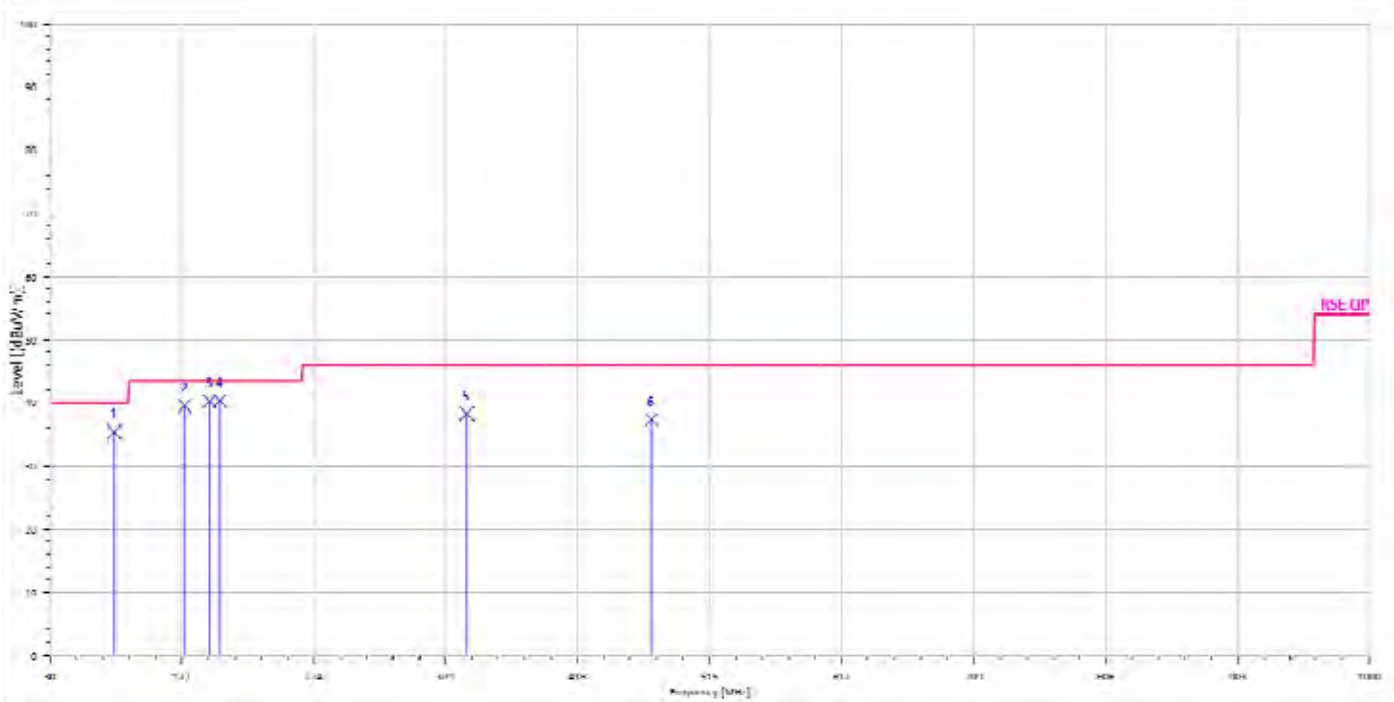
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Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

802.11a 5150~5250 MHz

Operation Mode :	802.11aB1	Test Date :	2018/5/29
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
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
77.53	S	Peak	56.00	-20.65	35.35	40	-4.65
128.94	S	Peak	57.24	-17.73	39.51	43.5	-3.99
147.37	S	Peak	56.25	-15.99	40.26	43.5	-3.24
155.13	S	QP	56.02	-15.68	40.34	43.5	-3.16
336.52	S	Peak	52.66	-14.38	38.28	46	-7.72
472.32	S	Peak	48.46	-11.10	37.36	46	-8.64

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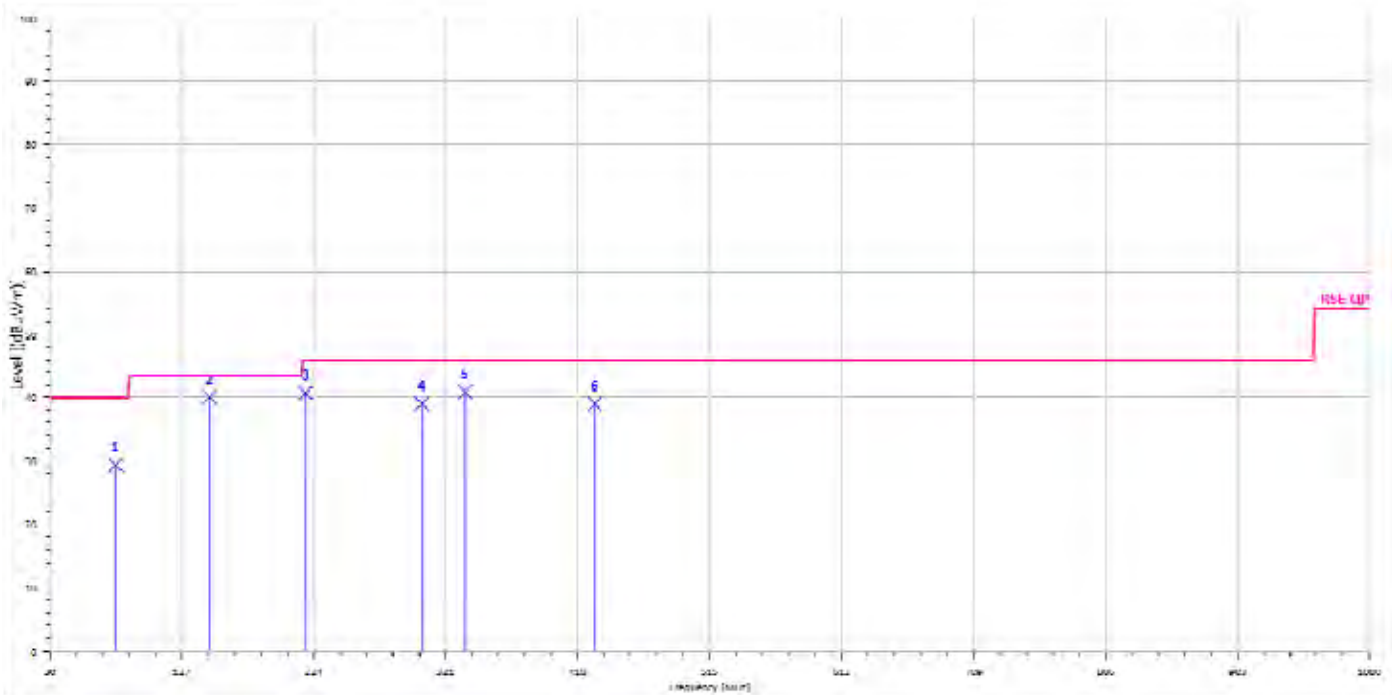
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Operation Mode : 802.11aB1 Test Date : 2018/5/29
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
78.50	S	Peak	50.16	-20.82	29.35	40	-10.65
147.37	S	Peak	56.03	-15.99	40.05	43.5	-3.45
218.18	S	Peak	59.35	-18.64	40.71	46	-5.29
303.54	S	Peak	54.27	-15.27	39.01	46	-6.99
335.55	S	Peak	55.30	-14.39	40.90	46	-5.10
430.61	S	Peak	51.61	-12.61	39.00	46	-7.00

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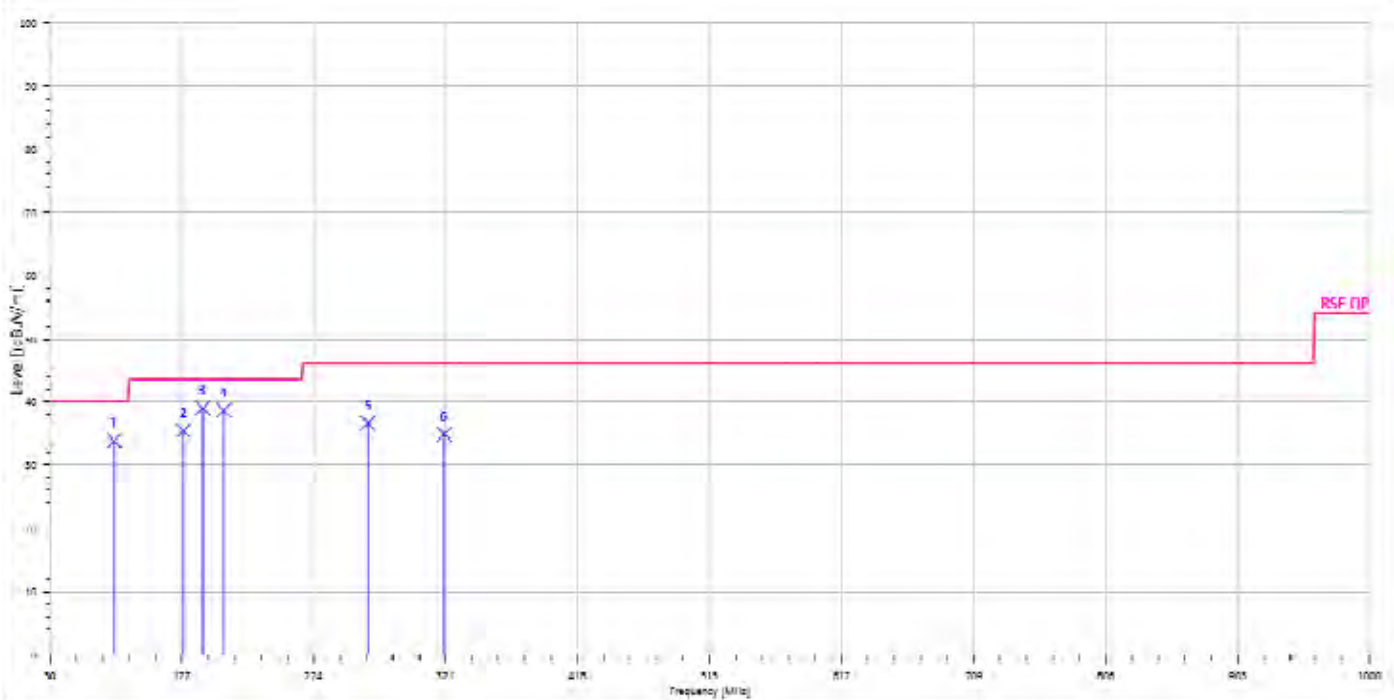
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802.11a 5250~5350 MHz

Operation Mode :	802.11aB2	Test Date :	2018/5/29
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.7deg_C/57RH
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
77.53	S	Peak	54.46	-20.65	33.82	40	-6.18
127.97	S	Peak	53.24	-17.84	35.41	43.5	-8.09
142.52	S	Peak	55.27	-16.30	38.98	43.5	-4.52
158.04	S	QP	54.26	-15.59	38.67	43.5	-4.83
263.77	S	Peak	53.49	-16.86	36.63	46	-9.37
320.03	S	Peak	49.57	-14.71	34.86	46	-11.14

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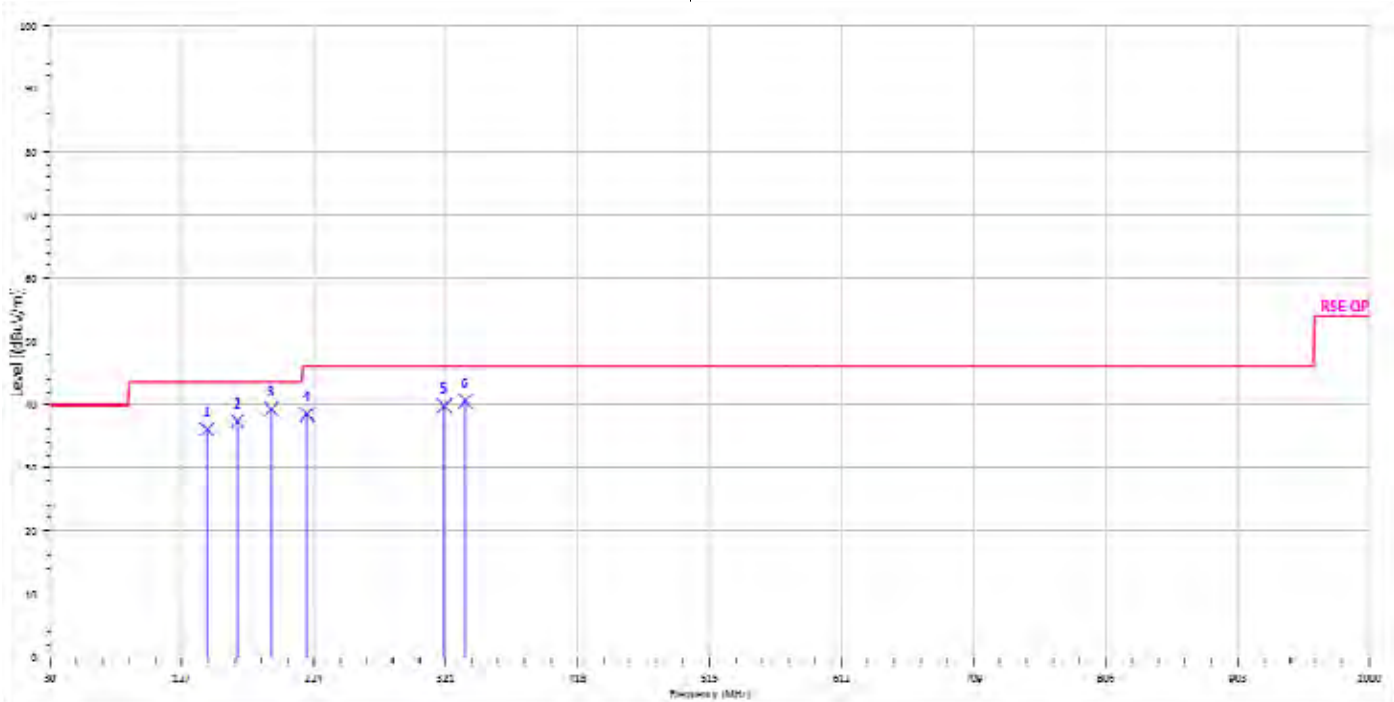
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Operation Mode : 802.11aB2 Test Date : 2018/5/29
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
145.43	S	Peak	52.14	-16.11	36.03	43.5	-7.47
167.74	S	Peak	53.58	-16.24	37.34	43.5	-6.16
192.96	S	Peak	57.99	-18.70	39.28	43.5	-4.22
219.15	S	Peak	57.06	-18.65	38.41	46	-7.59
320.03	S	Peak	54.46	-14.71	39.75	46	-6.25
335.55	S	Peak	54.94	-14.39	40.55	46	-5.45

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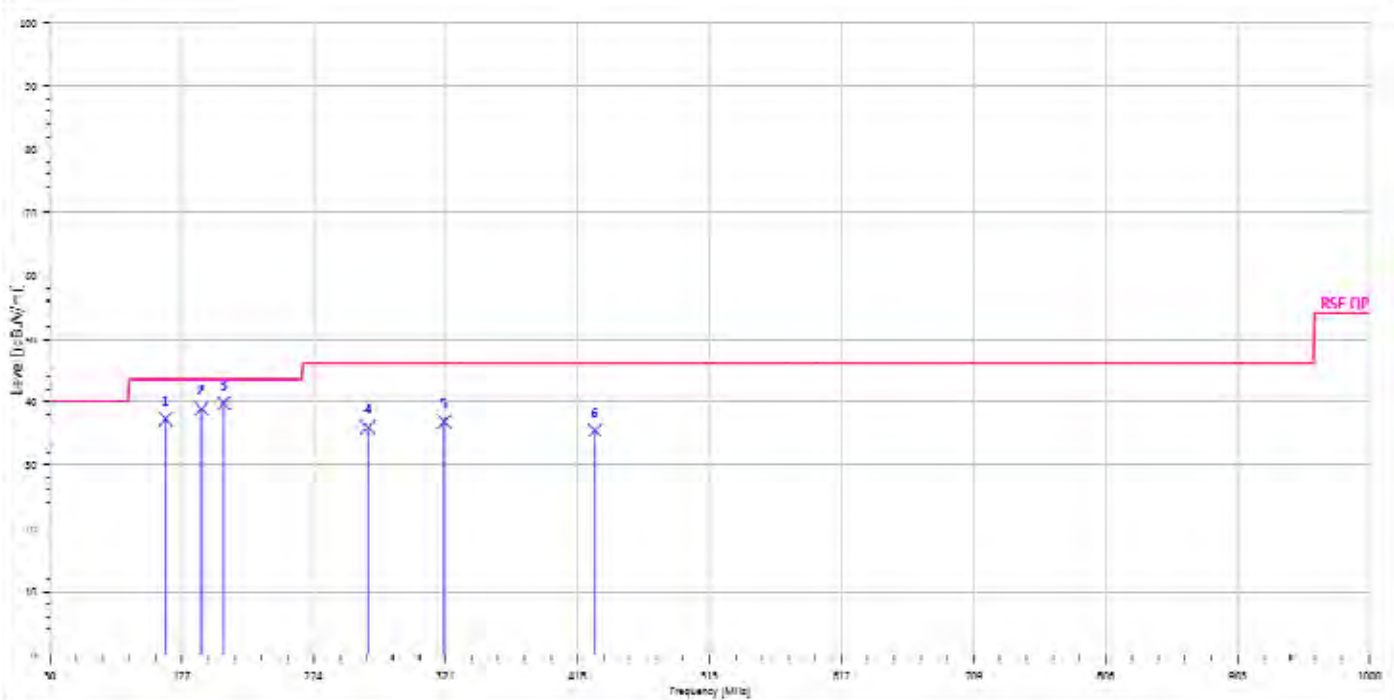
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802.11a, 5470~5725 MHz

Operation Mode :	802.11aB3	Test Date :	2018/5/29
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.7deg_C/57RH
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
115.36	S	Peak	56.31	-19.03	37.28	43.5	-6.22
141.55	S	Peak	55.28	-16.36	38.92	43.5	-4.58
158.04	S	QP	55.41	-15.59	39.81	43.5	-3.69
263.77	S	Peak	52.82	-16.86	35.96	46	-10.04
320.03	S	Peak	51.57	-14.71	36.86	46	-9.14
430.61	S	Peak	48.04	-12.61	35.43	46	-10.57

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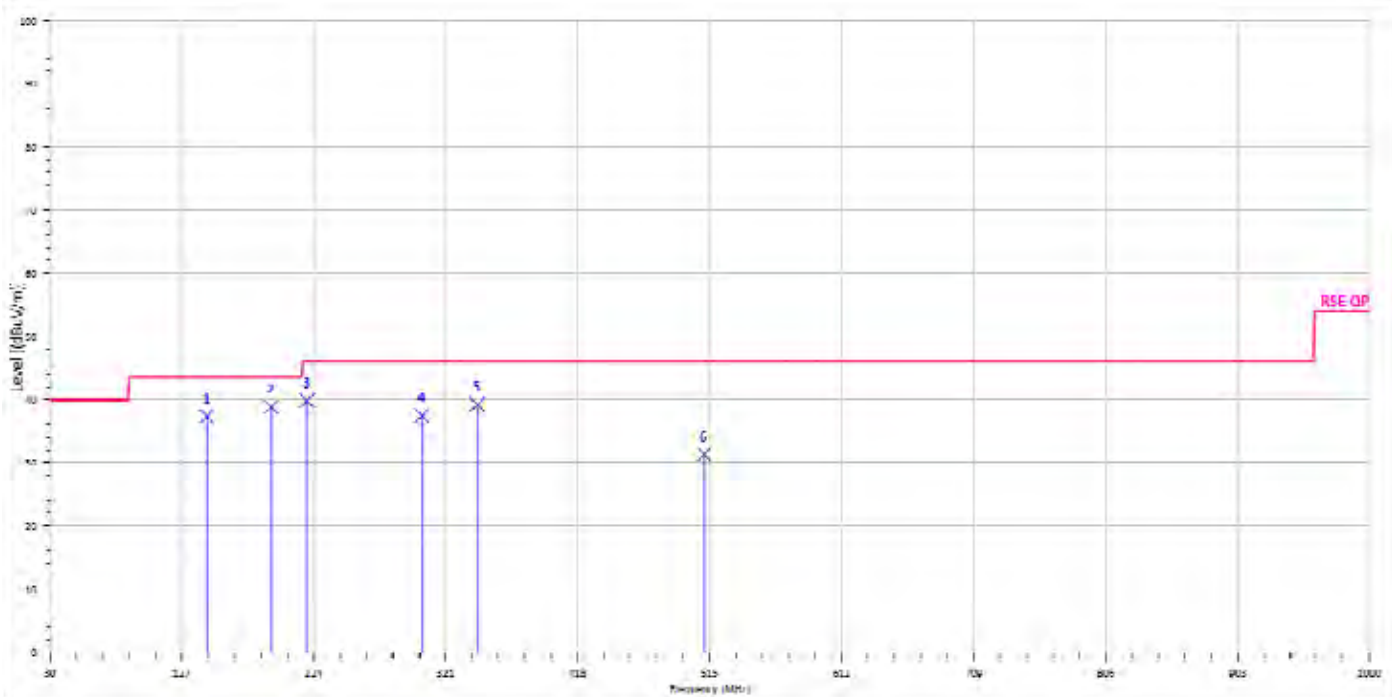
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Operation Mode : 802.11aB3 Test Date : 2018/5/29
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
145.43	S	Peak	53.43	-16.11	37.31	43.5	-6.19
192.96	S	Peak	57.51	-18.70	38.81	43.5	-4.69
219.15	S	Peak	58.45	-18.65	39.80	46	-6.20
303.54	S	Peak	52.67	-15.27	37.41	46	-8.59
344.28	S	Peak	53.49	-14.30	39.19	46	-6.81
511.12	S	Peak	42.21	-10.90	31.31	46	-14.69

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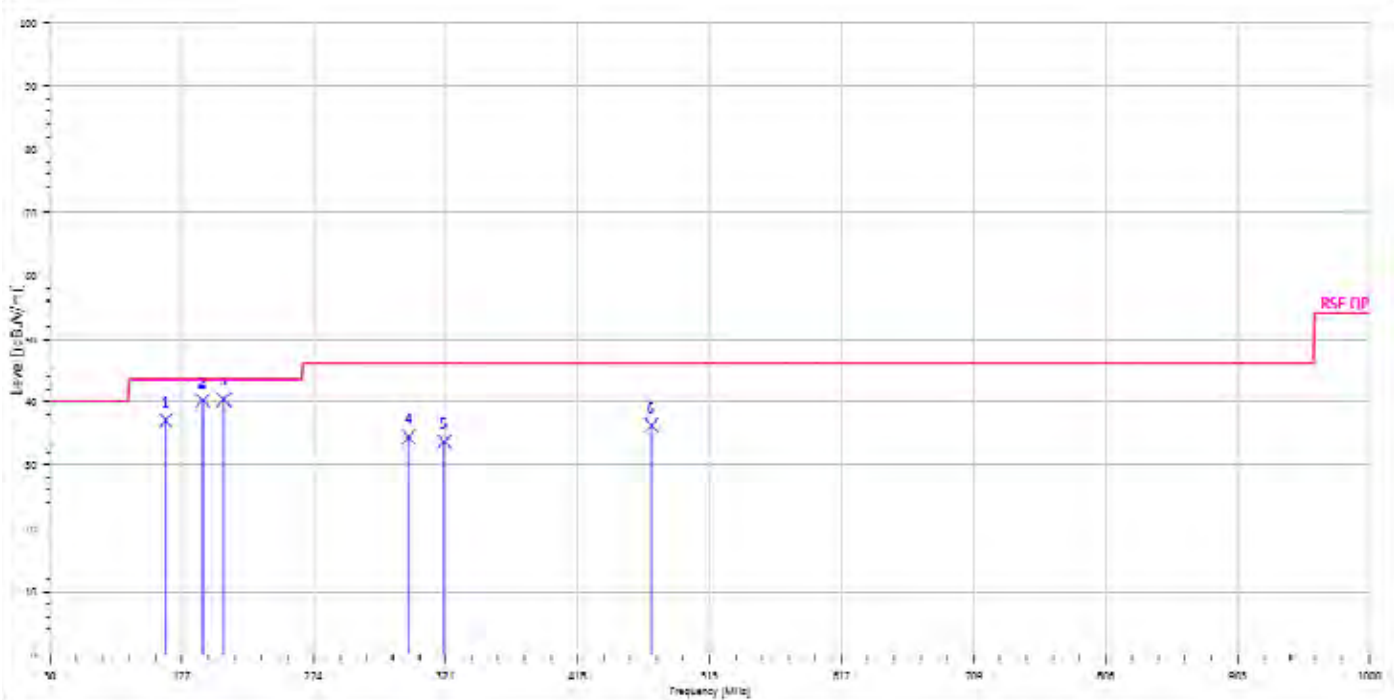
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802.11a, 5725~5850 MHz

Operation Mode :	802.11aB4	Test Date :	2018/5/29
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	22.7deg_C/57RH
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
115.36	S	Peak	56.10	-19.03	37.07	43.5	-6.43
142.52	S	Peak	56.53	-16.30	40.23	43.5	-3.27
158.04	S	QP	55.93	-15.59	40.34	43.5	-3.16
293.84	S	Peak	49.84	-15.43	34.41	46	-11.59
320.03	S	Peak	48.39	-14.71	33.68	46	-12.32
472.32	S	Peak	47.36	-11.10	36.27	46	-9.73

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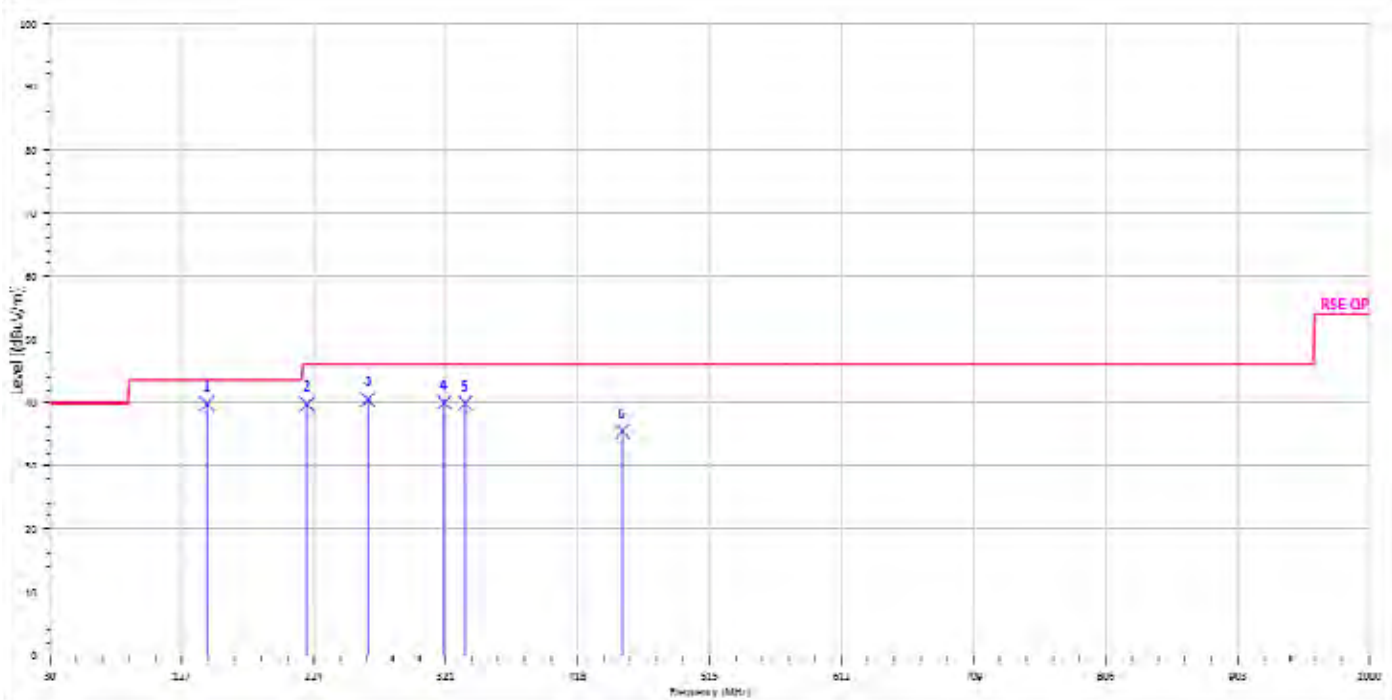
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Operation Mode : 802.11aB4 Test Date : 2018/5/29
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
145.43	S	Peak	55.86	-16.11	39.75	43.5	-3.75
219.15	S	Peak	58.35	-18.65	39.70	46	-6.30
263.77	S	Peak	57.30	-16.86	40.44	46	-5.56
320.03	S	Peak	54.70	-14.71	39.98	46	-6.02
335.55	S	Peak	54.25	-14.39	39.86	46	-6.14
450.98	S	Peak	47.22	-11.80	35.41	46	-10.59

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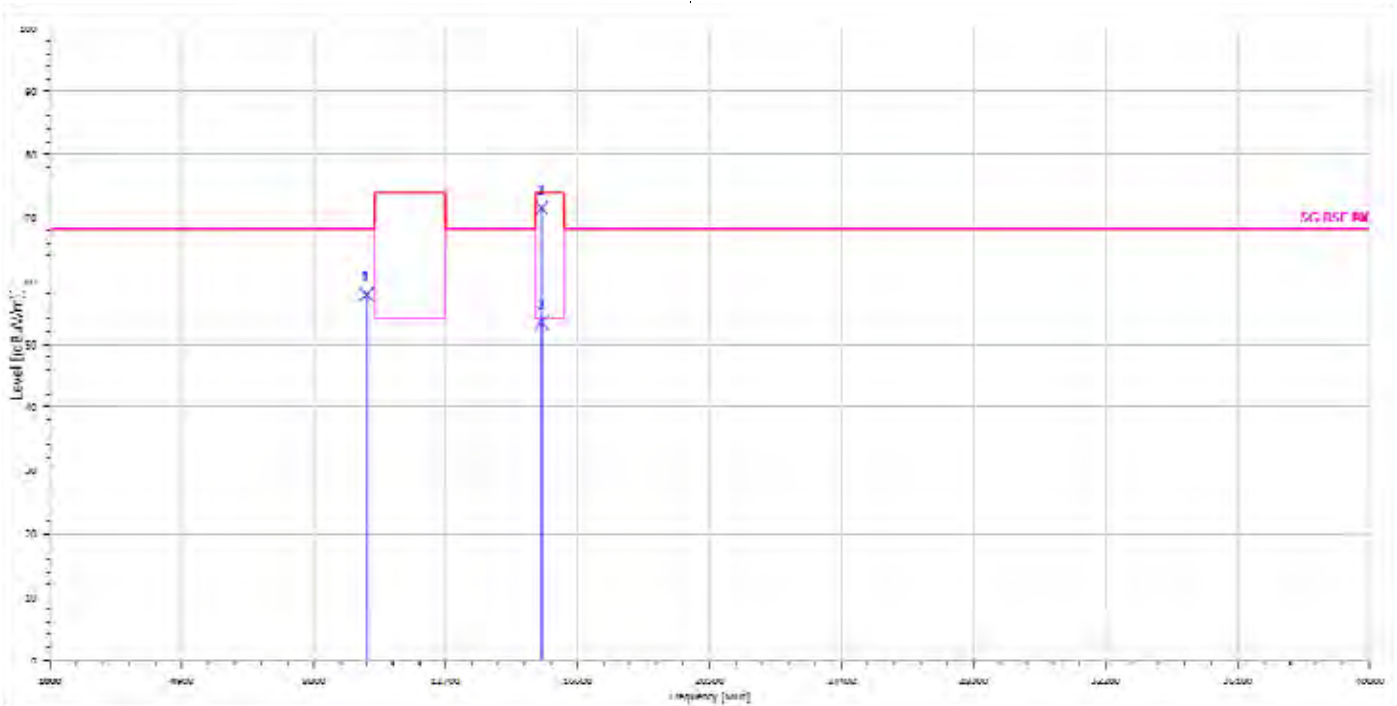
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Above 1GHz Worst-Case Data:

Radiated Spurious Emission Measurement Result 802.11a, 5150~5250 MHz

Operation Mode :	802.11aB1	Test Date :	2018/5/8
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	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
10360.00	H	Peak	48.57	9.27	57.84	68.3	-10.46
15540.00	H	Peak	60.53	11.01	71.53	74	-2.47
15540.00	H	Average	42.45	11.01	53.46	54	-0.54

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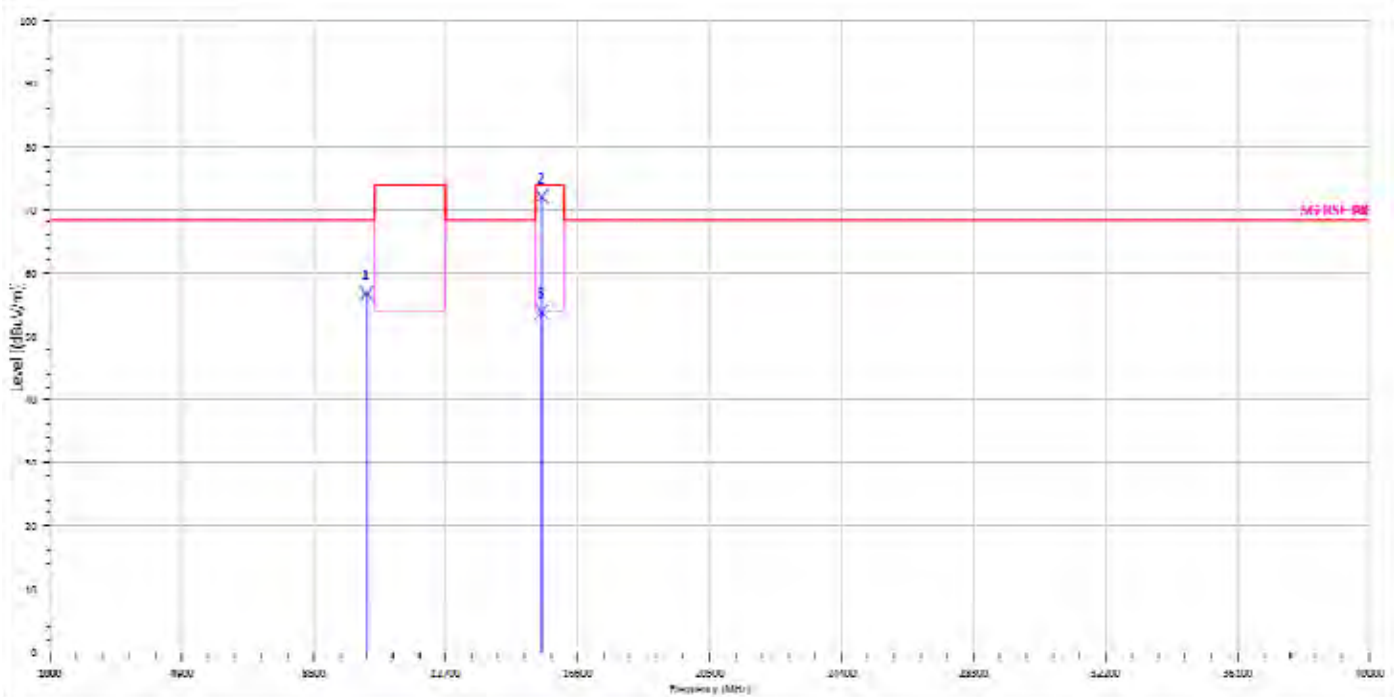
t (886-2) 2299-3279

f (886-2) 2298-0488

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Operation Mode : 802.11aB1 Test Date : 2018/5/8
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
 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
10360.00	H	Peak	47.53	9.27	56.80	68.3	-11.50
15540.00	H	Peak	61.10	11.01	72.11	74	-1.89
15540.00	H	Average	42.88	11.01	53.88	54	-0.12

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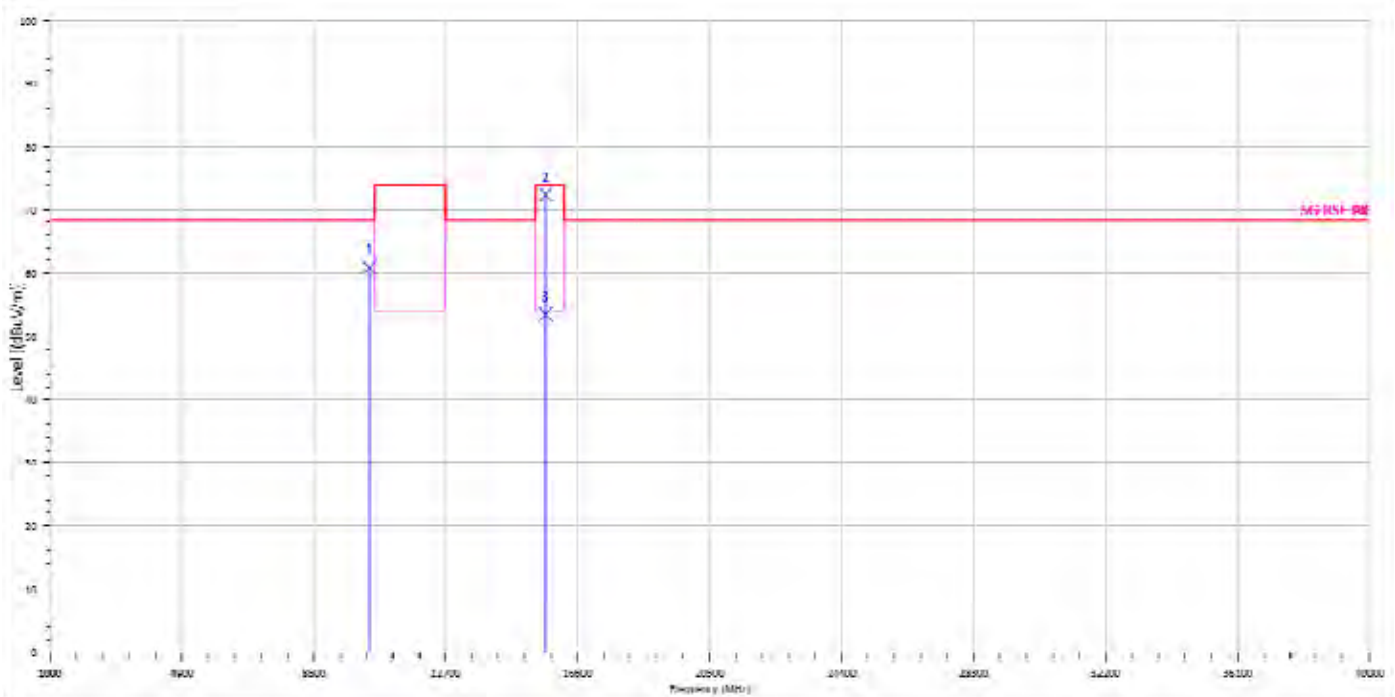
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Operation Mode :	802.11aB1	Test Date :	2018/5/8
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
10440.00	H	Peak	51.35	9.57	60.92	68.3	-7.38
15660.00	H	Peak	61.83	10.58	72.41	74	-1.59
15660.00	H	Average	42.89	10.58	53.47	54	-0.53

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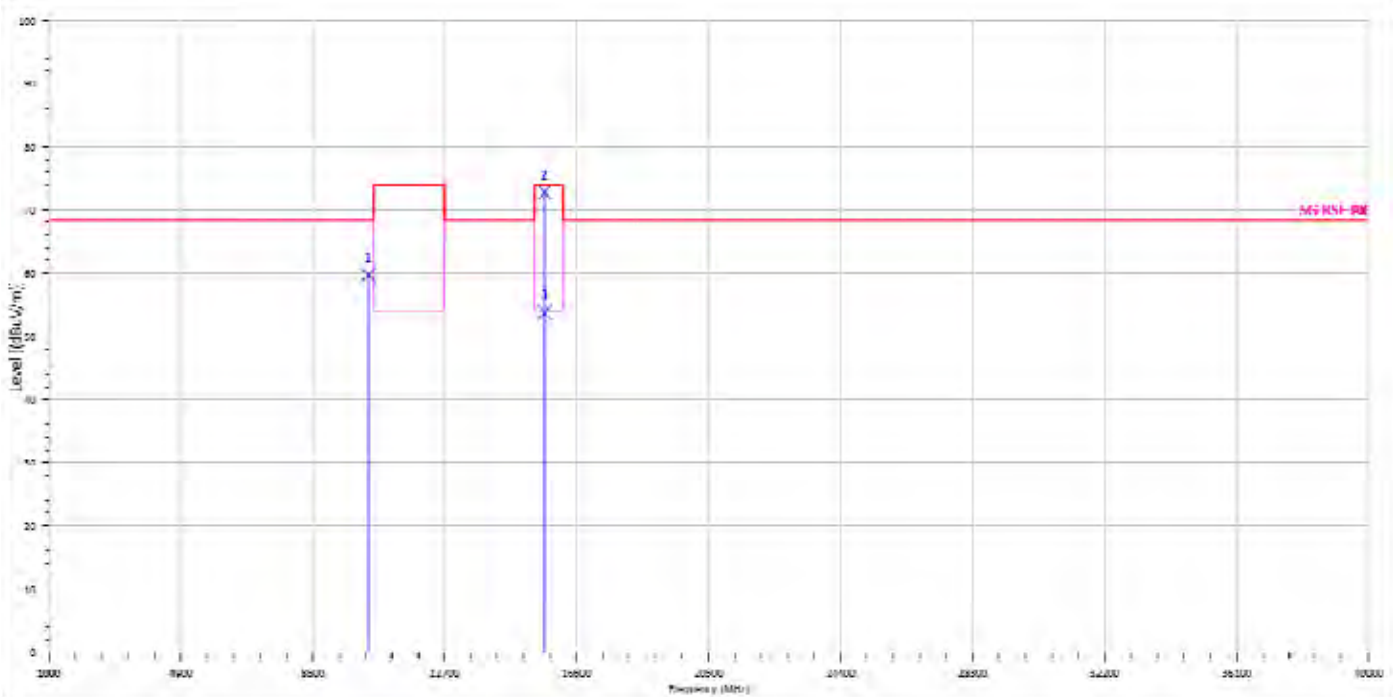
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Operation Mode : 802.11aB1 Test Date : 2018/5/8
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
10440.00	H	Peak	50.14	9.57	59.71	68.3	-8.59
15660.00	H	Peak	62.23	10.58	72.81	74	-1.19
15660.00	H	Average	43.21	10.58	53.79	54	-0.21

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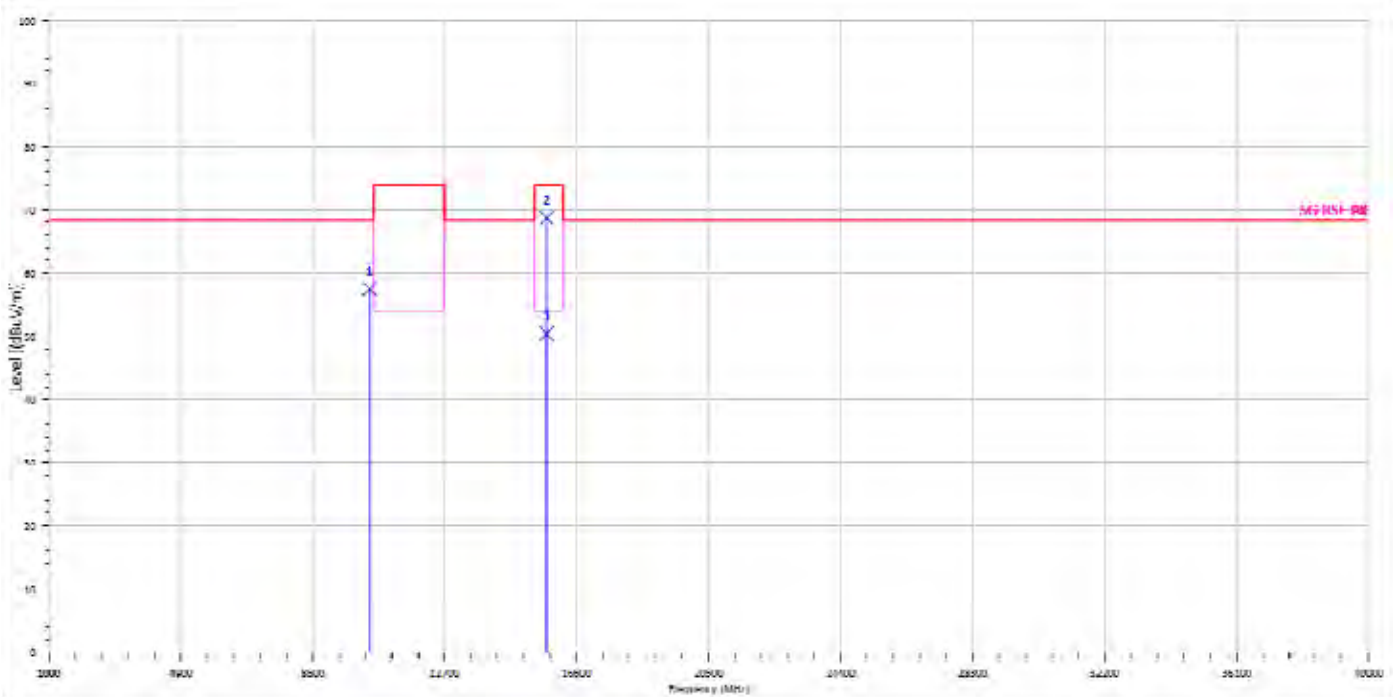
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Operation Mode : 802.11aB1 Test Date : 2018/5/8
 Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
10480.00	H	Peak	47.83	9.64	57.48	68.3	-10.82
15720.00	H	Peak	58.17	10.55	68.72	74	-5.28
15720.00	H	Average	39.83	10.55	50.39	54	-3.61

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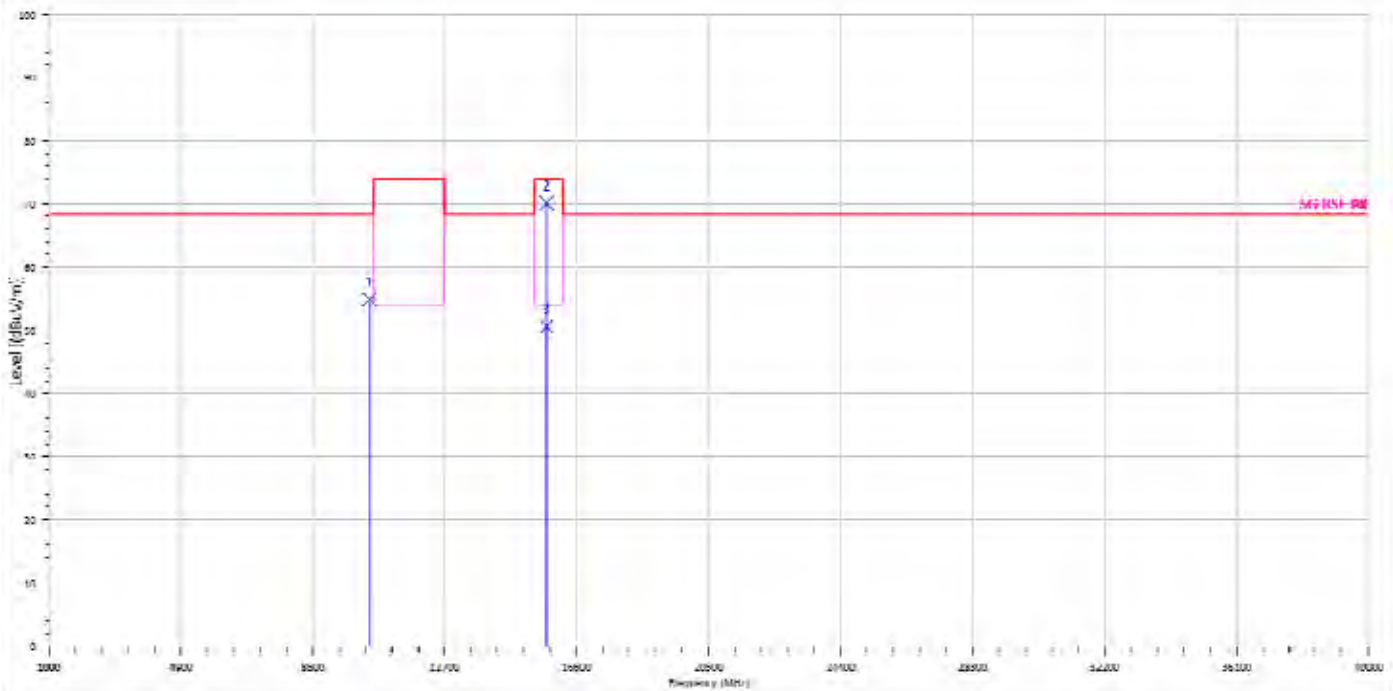
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Operation Mode : 802.11aB1 Test Date : 2018/5/8
 Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
10480.00	H	Peak	45.26	9.64	54.91	68.3	-13.39
15720.00	H	Peak	59.54	10.55	70.09	74	-3.91
15720.00	H	Average	40.01	10.55	50.57	54	-3.43

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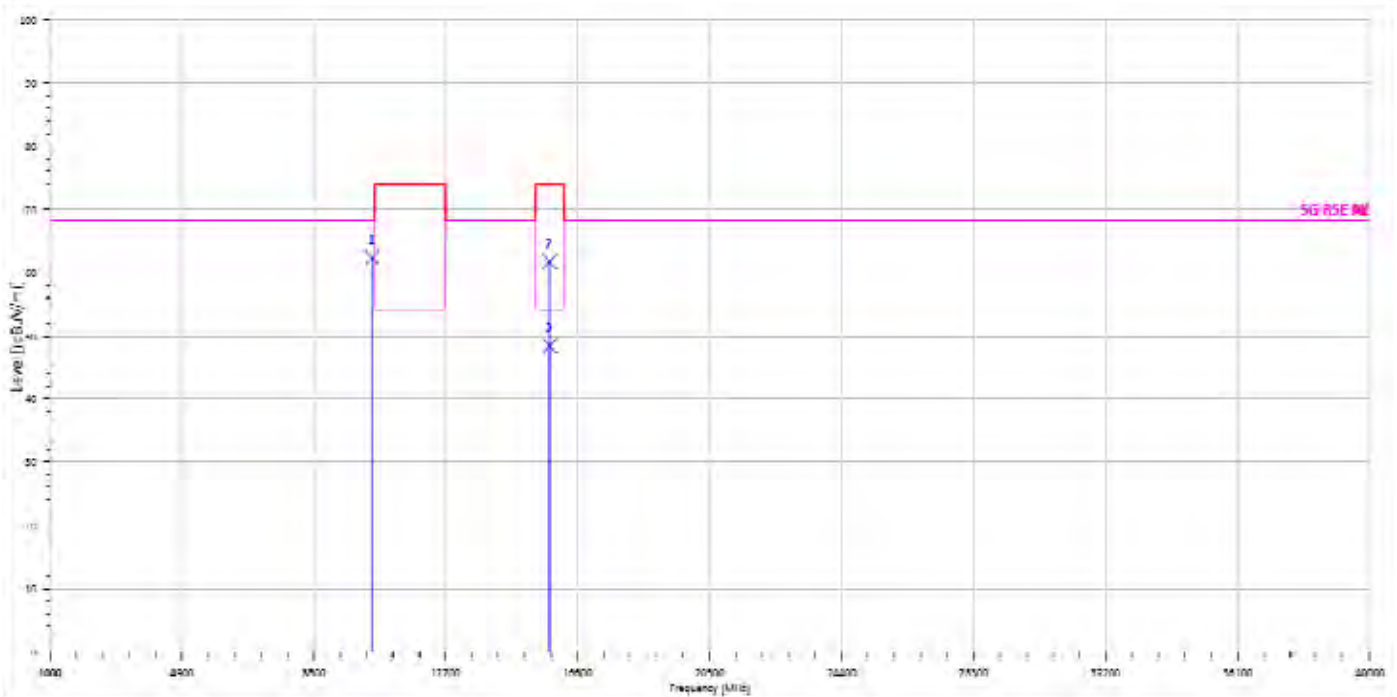
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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode : 802.11aB2 Test Date : 2018/5/8
 Fundamental Frequency : 5260 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low 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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10520.00	H	Peak	52.55	9.77	62.32	68.3	-5.98
15780.00	H	Peak	55.29	9.98	61.74	74	-12.26
15780.00	H	Average	38.43	9.98	48.40	54	-5.60

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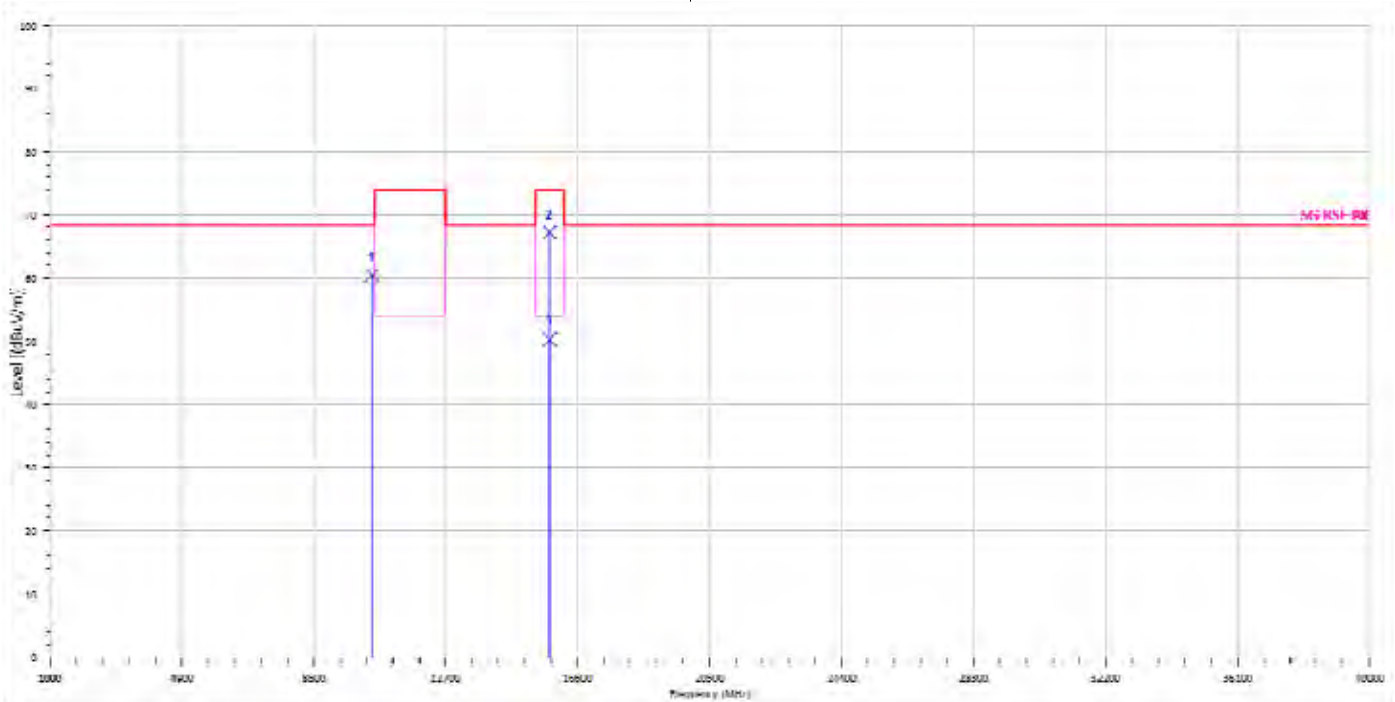
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Operation Mode : 802.11aB2 Test Date : 2018/5/8
 Fundamental Frequency : 5260 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
10520.00	H	Peak	50.69	9.77	60.47	68.3	-7.83
15780.00	H	Peak	57.27	9.98	67.24	74	-6.76
15780.00	H	Average	40.33	9.98	50.30	54	-3.70

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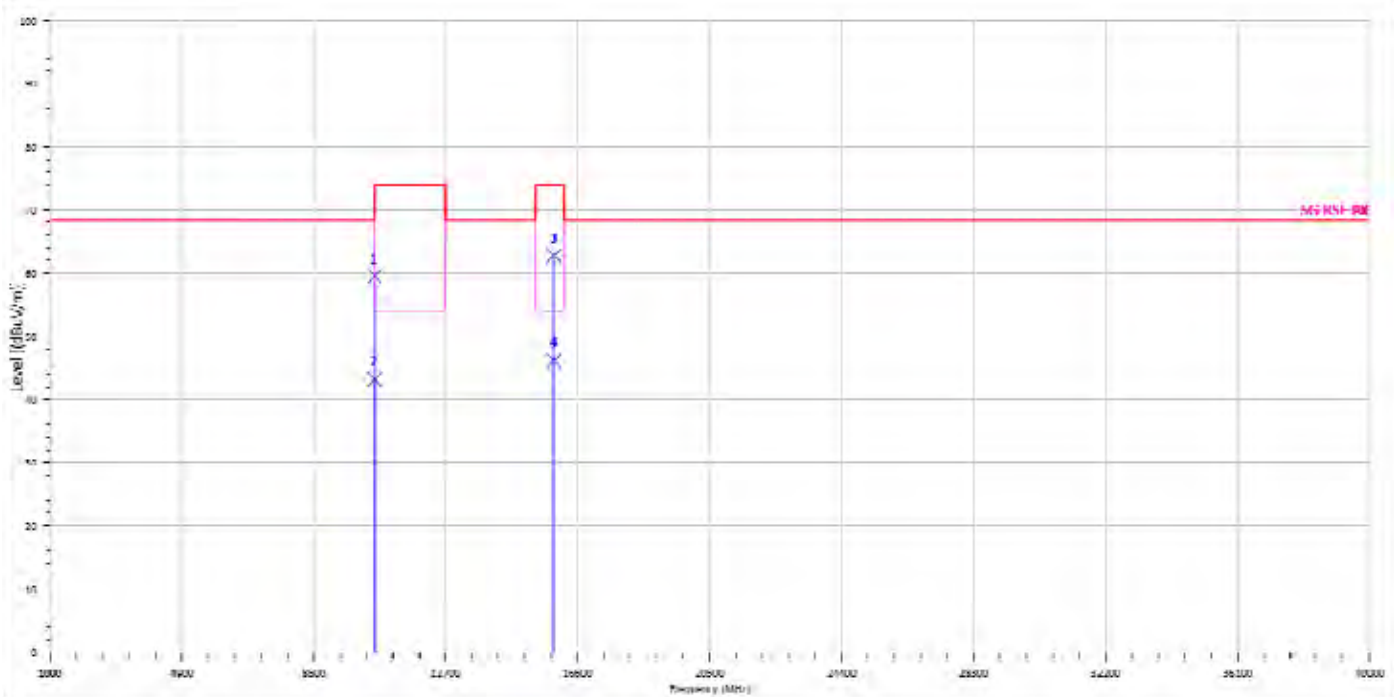
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Operation Mode :	802.11aB2	Test Date :	2018/5/8
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
10600.00	H	Peak	49.38	10.15	59.53	74	-14.47
10600.00	H	Average	33.01	10.15	43.16	54	-10.84
15900.00	H	Peak	53.23	9.54	62.77	74	-11.23
15900.00	H	Average	36.59	9.54	46.12	54	-7.88

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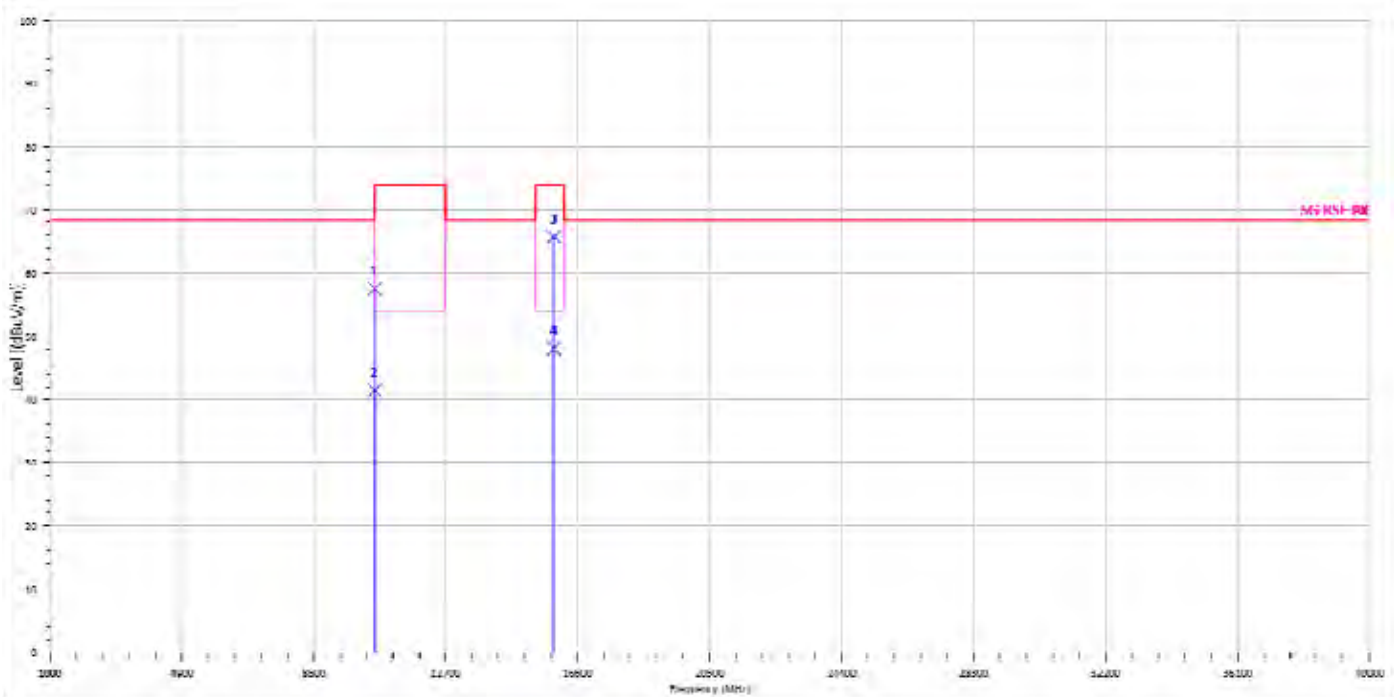
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Operation Mode : 802.11aB2 Test Date : 2018/5/8
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
10600.00	H	Peak	47.36	10.15	57.51	74	-16.49
10600.00	H	Average	31.30	10.15	41.45	54	-12.55
15900.00	H	Peak	56.20	9.54	65.74	74	-8.26
15900.00	H	Average	38.50	9.54	48.04	54	-5.96

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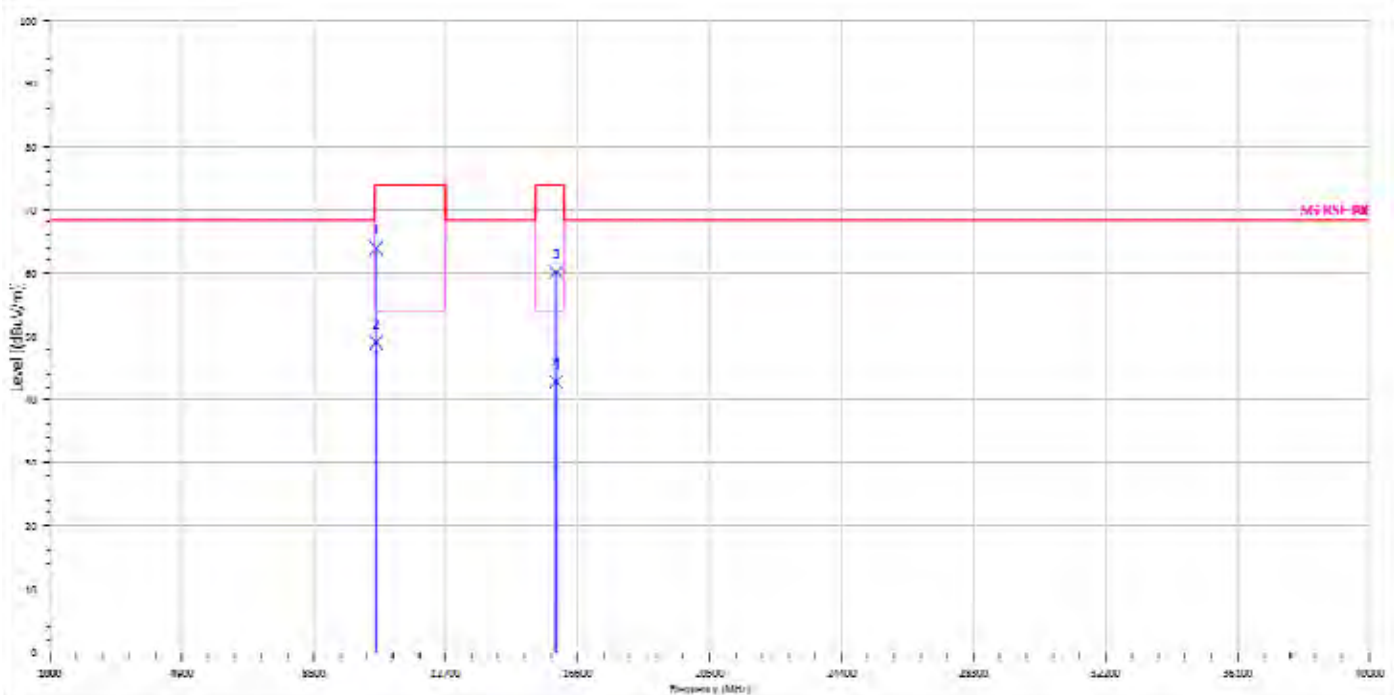
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Operation Mode : 802.11aB2 Test Date : 2018/5/8
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
10640.00	H	Peak	53.86	10.07	63.93	74	-10.07
10640.00	H	Average	38.93	10.07	49.00	54	-5.00
15960.00	H	Peak	51.02	9.11	60.14	74	-13.86
15960.00	H	Average	33.70	9.11	42.81	54	-11.19

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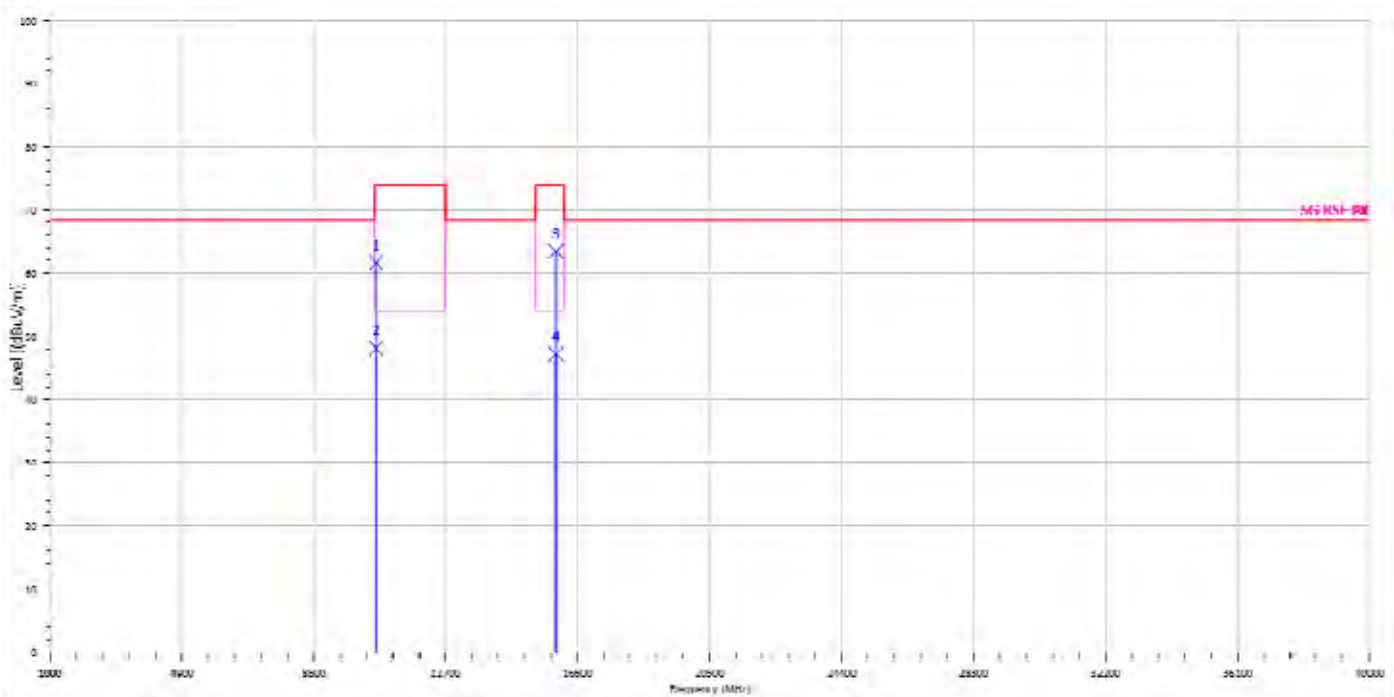
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Operation Mode : 802.11aB2 Test Date : 2018/5/8
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
10640.00	H	Peak	51.55	10.07	61.62	74	-12.38
10640.00	H	Average	38.02	10.07	48.09	54	-5.91
15960.00	H	Peak	54.35	9.11	63.46	74	-10.54
15960.00	H	Average	38.11	9.11	47.22	54	-6.78

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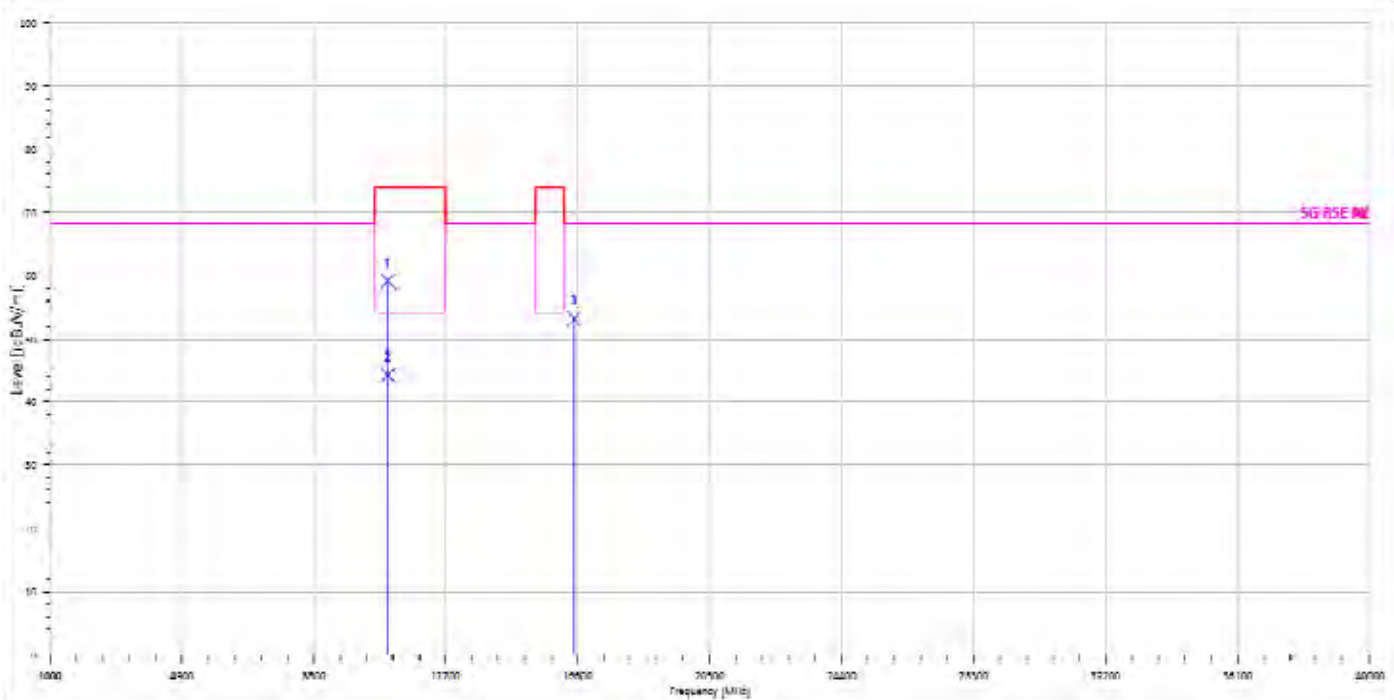
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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode : 802.11aB3 Test Date : 2018/5/8
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low 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
11000.00	H	Peak	47.44	11.71	59.15	74	-14.85
11000.00	H	Average	32.52	11.71	44.23	54	-9.77
16500.00	H	Peak	42.73	10.43	53.16	68.3	-15.14

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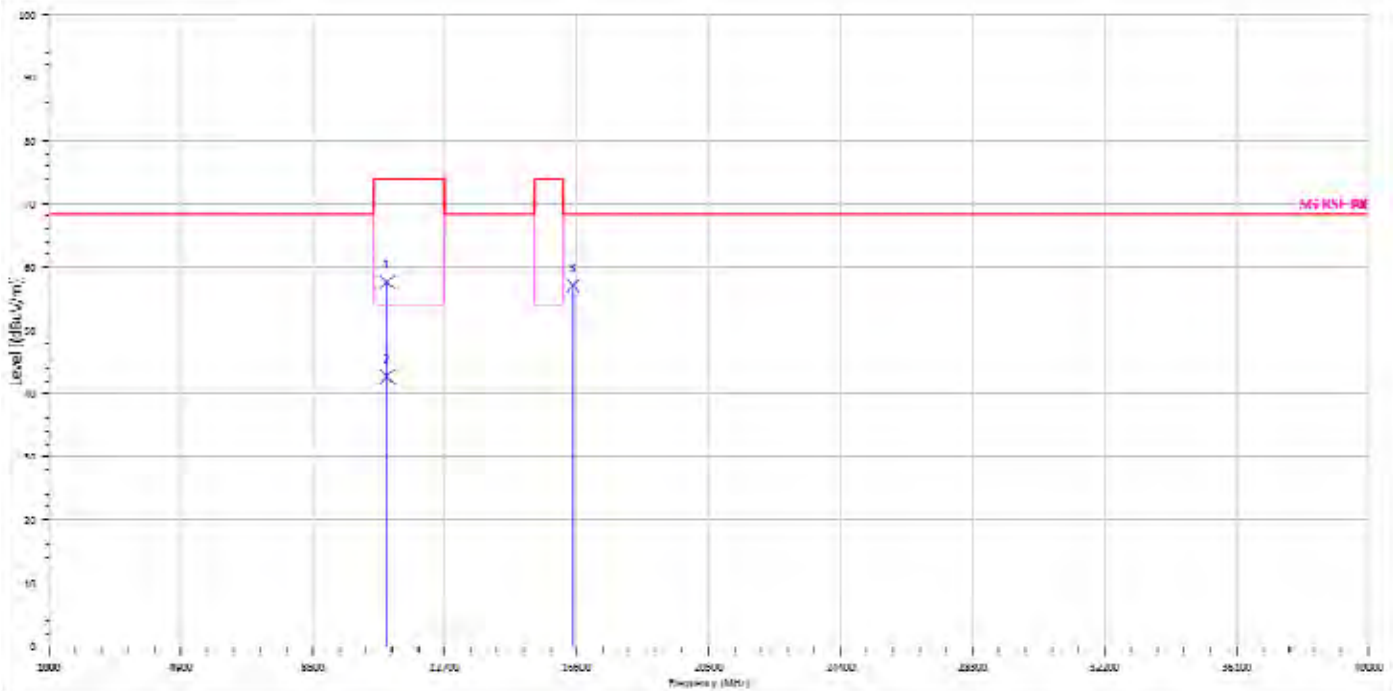
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Operation Mode : 802.11aB3 Test Date : 2018/5/8
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
11000.00	H	Peak	45.92	11.71	57.63	74	-16.37
11000.00	H	Average	30.94	11.71	42.65	54	-11.36
16500.00	H	Peak	46.63	10.43	57.06	68.3	-11.24

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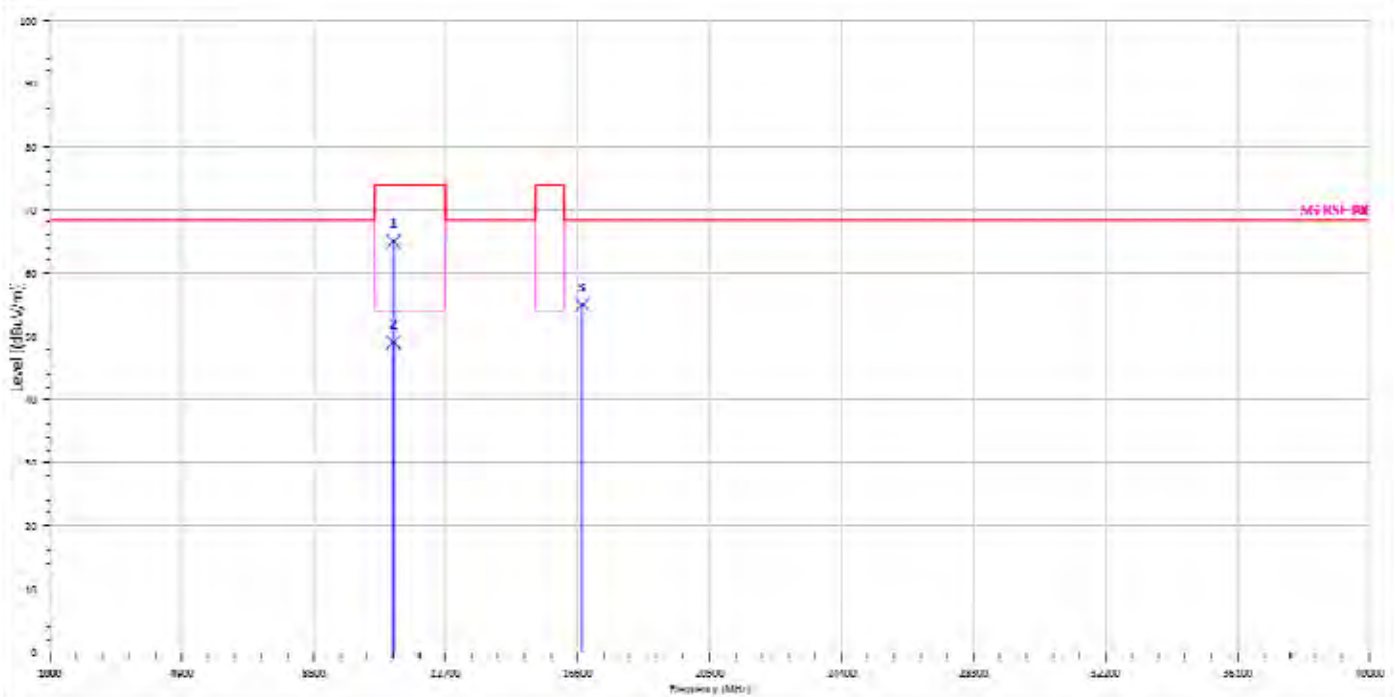
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Operation Mode :	802.11aB3	Test Date :	2018/5/8
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
11160.00	H	Peak	53.53	11.51	65.04	74	-8.96
11160.00	H	Average	37.52	11.51	49.03	54	-4.97
16740.00	H	Peak	43.40	11.62	55.01	68.3	-13.29

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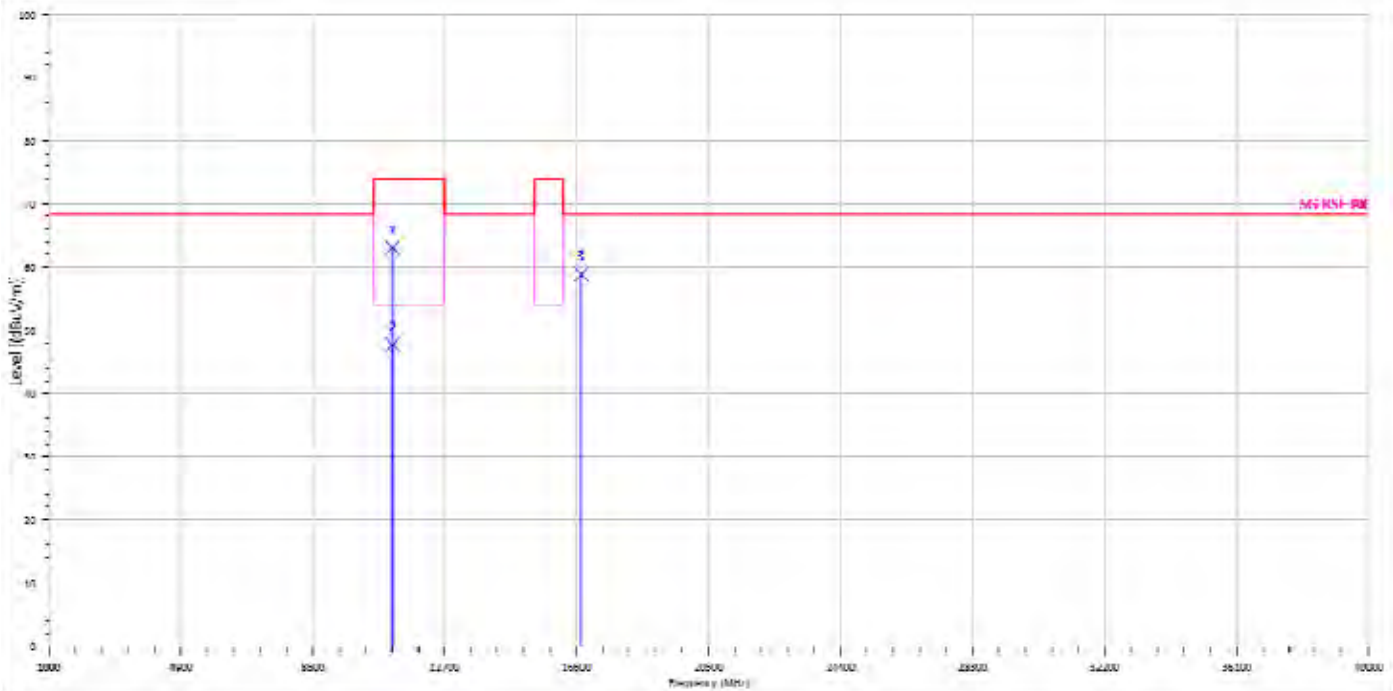
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Operation Mode : 802.11aB3 Test Date : 2018/5/8
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
11160.00	H	Peak	51.57	11.51	63.08	74	-10.92
11160.00	H	Average	36.22	11.51	47.73	54	-6.27
16740.00	H	Peak	47.22	11.62	58.83	68.3	-9.47

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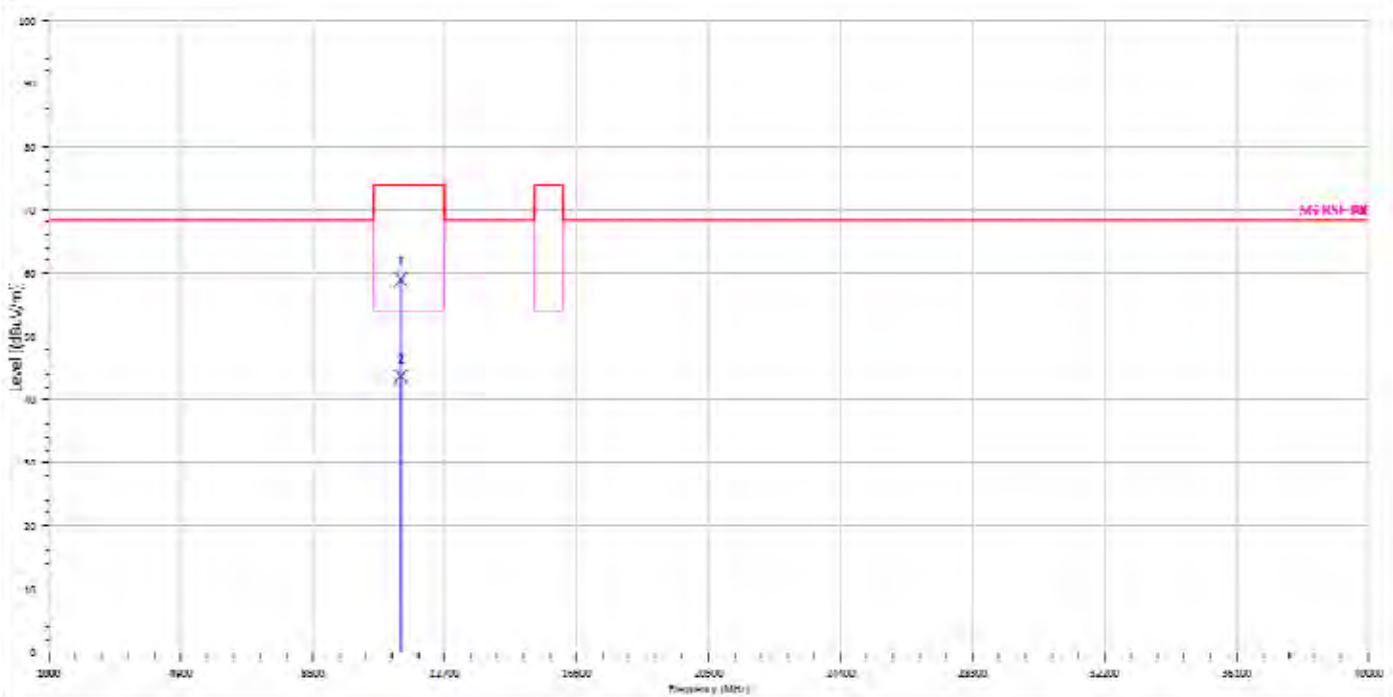
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Operation Mode : 802.11aB3 Test Date : 2018/5/8
 Fundamental Frequency : 5720 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
11440.00	H	Peak	52.28	11.41	63.69	74	-10.31
11440.00	H	Average	37.01	11.41	48.42	54	-5.58
17160.00	H	Peak	43.30	13.26	56.56	68.3	-11.74

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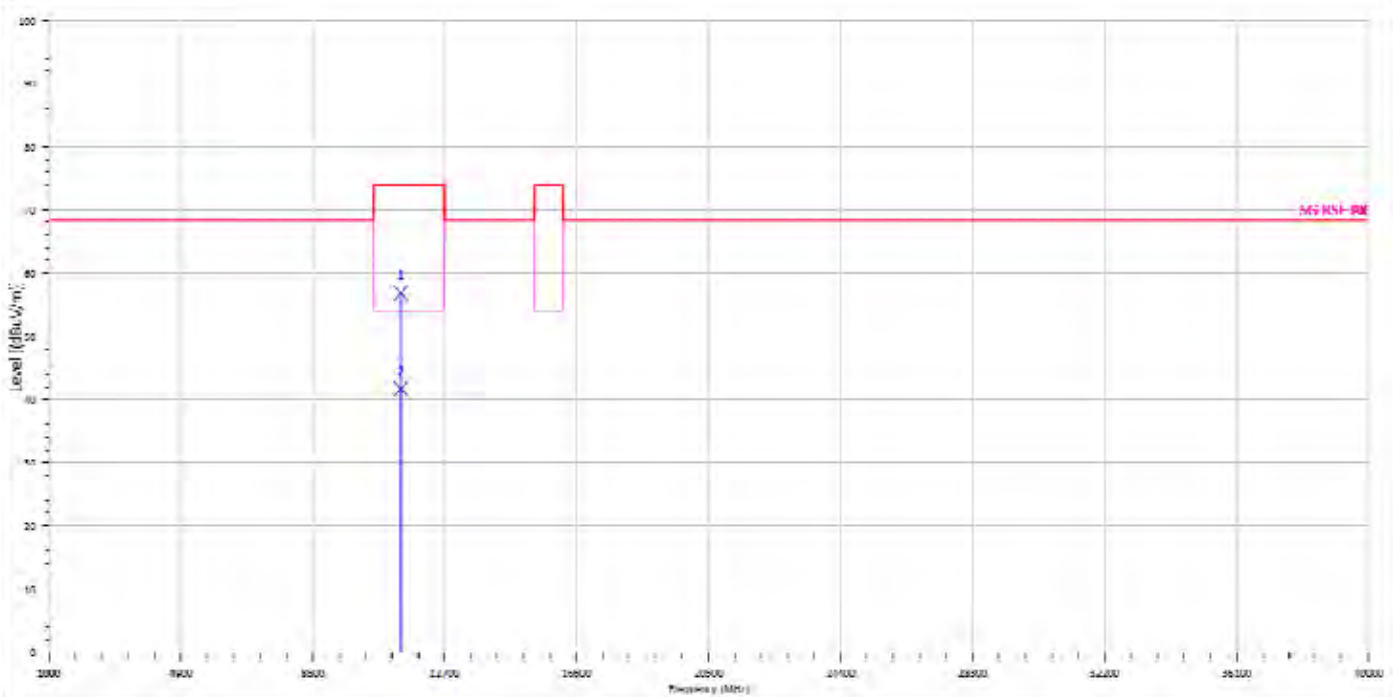
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 Fundamental Frequency : 5720 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
11440.00	H	Peak	51.03	11.41	62.44	74	-11.56
11440.00	H	Average	36.14	11.41	47.55	54	-6.45
17160.00	H	Peak	47.20	13.26	60.45	68.3	-7.85

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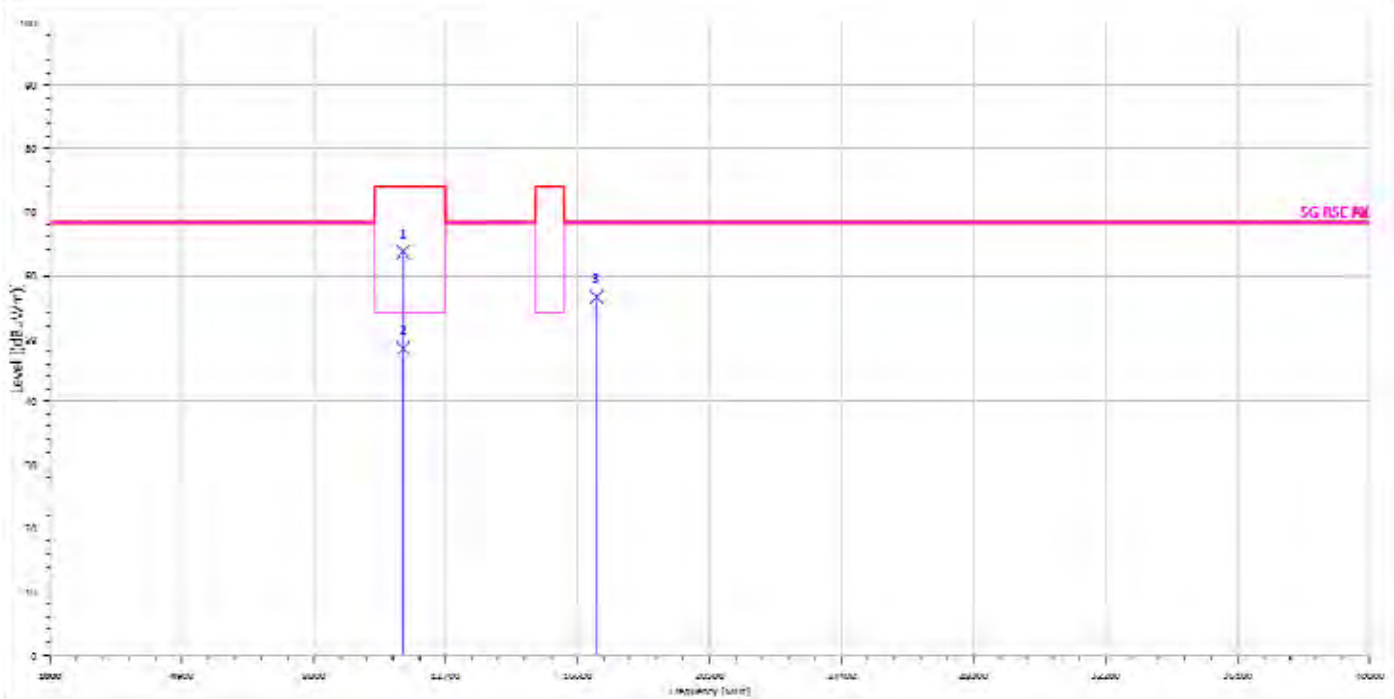
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Operation Mode : 802.11aB3 Test Date : 2018/5/8
 Fundamental Frequency : 5720 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
11440.00	H	Peak	52.28	11.41	63.69	74	-10.31
11440.00	H	Average	37.01	11.41	48.42	54	-5.58
17160.00	H	Peak	43.30	13.26	56.56	68.3	-11.74

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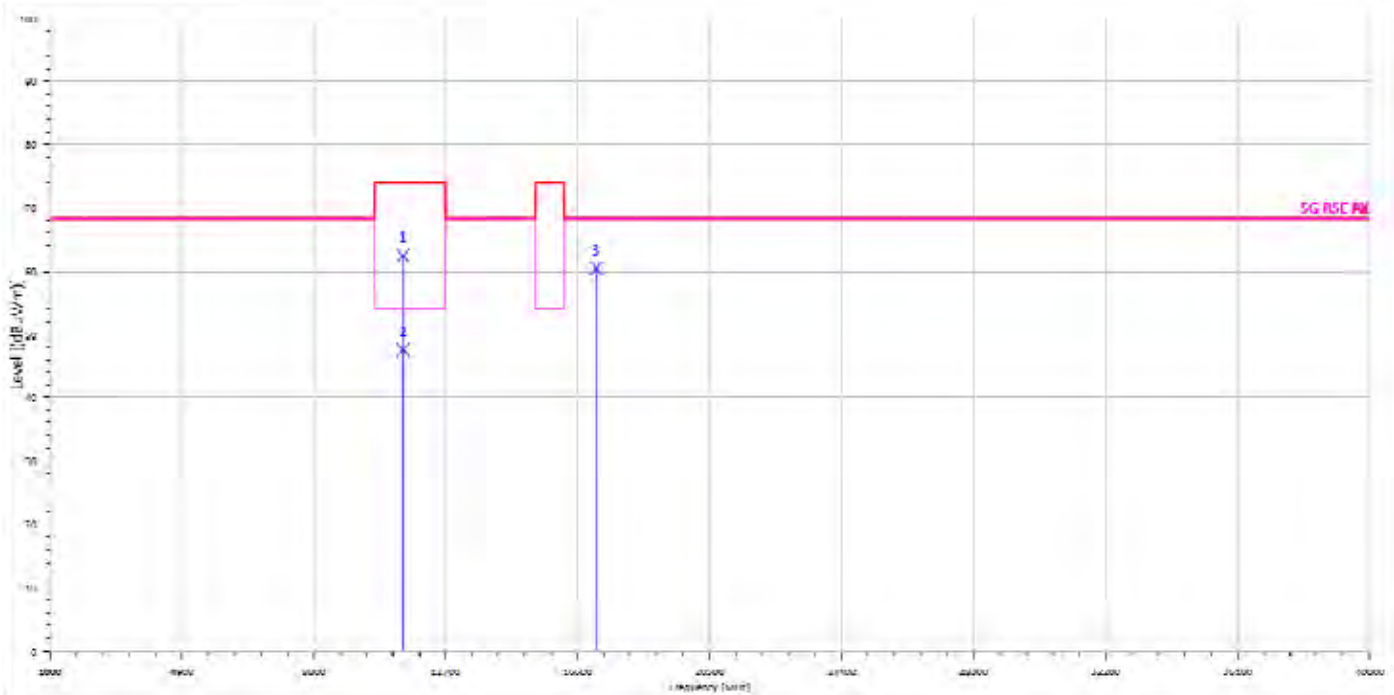
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Operation Mode : 802.11aB3 Test Date : 2018/5/8
 Fundamental Frequency : 5720 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
11440.00	H	Peak	51.03	11.41	62.44	74	-11.56
11440.00	H	Average	36.14	11.41	47.55	54	-6.45
17160.00	H	Peak	47.20	13.26	60.45	68.3	-7.85

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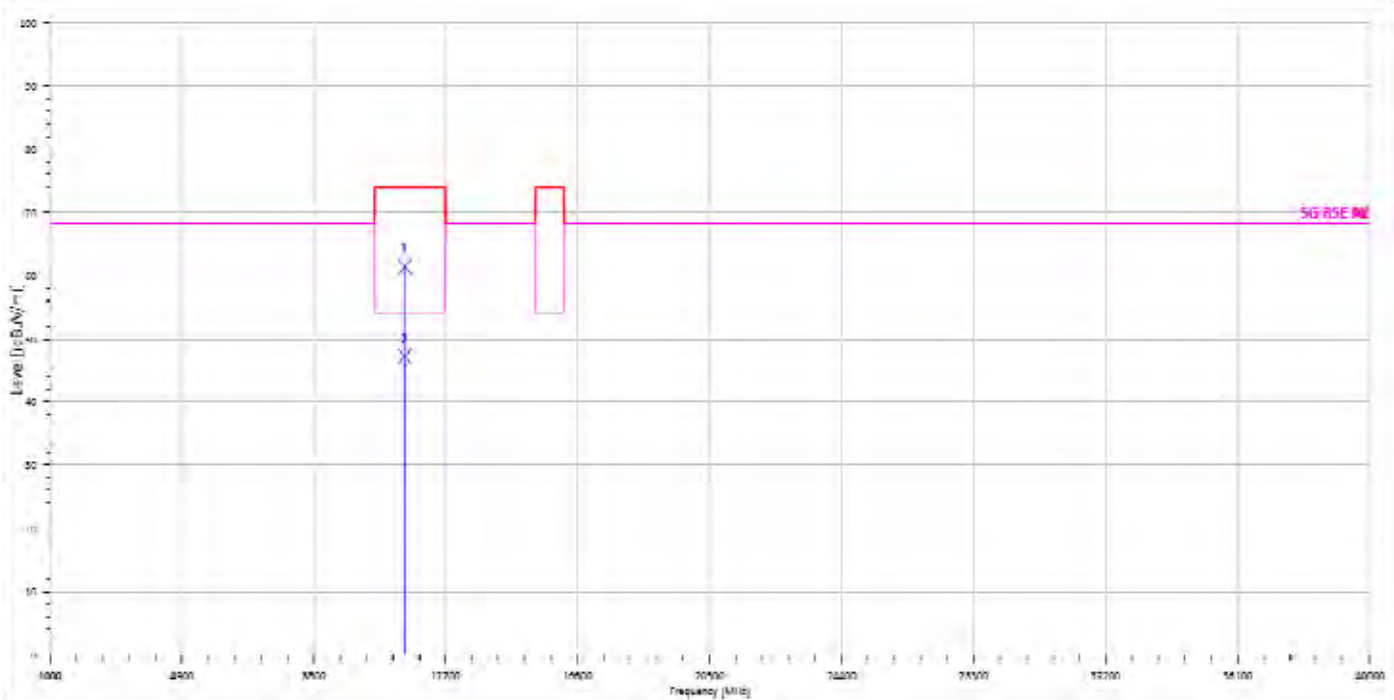
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Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode : 802.11aB4 Test Date : 2018/5/8
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low 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
11490.00	H	Peak	50.24	11.18	61.41	74	-12.59
11490.00	H	Average	36.02	11.18	47.20	54	-6.80

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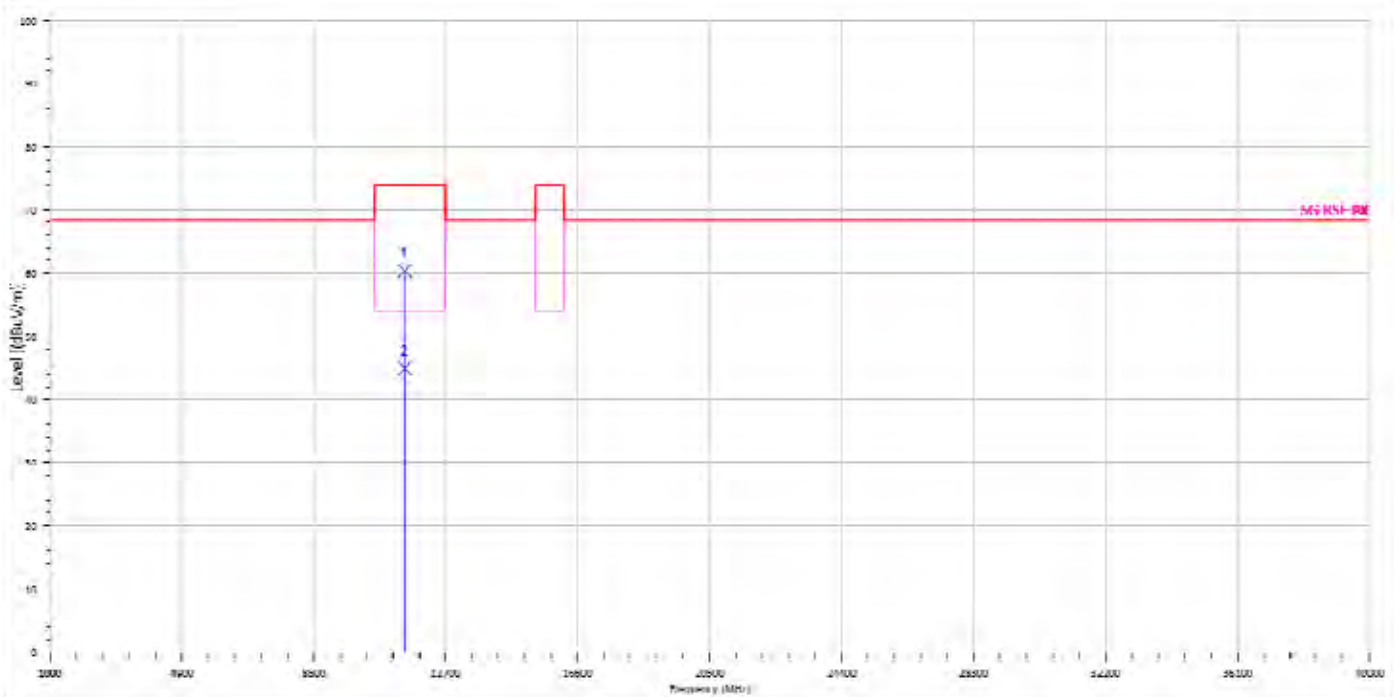
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Operation Mode : 802.11aB4 Test Date : 2018/5/8
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
11490.00	H	Peak	49.21	11.18	60.39	74	-13.61
11490.00	H	Average	33.79	11.18	44.97	54	-9.03

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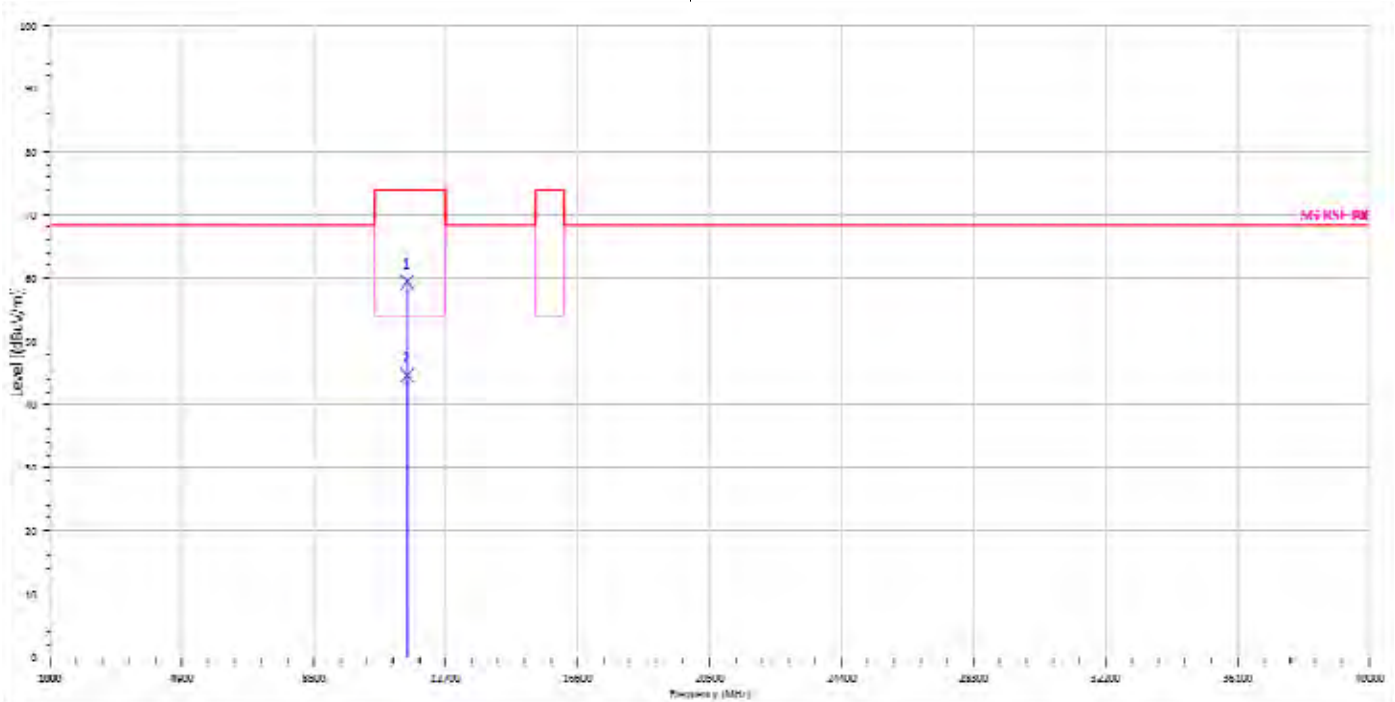
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Operation Mode :	802.11aB4	Test Date :	2018/5/8
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
11570.00	H	Peak	48.33	11.06	59.39	74	-14.61
11570.00	H	Average	33.57	11.06	44.63	54	-9.37

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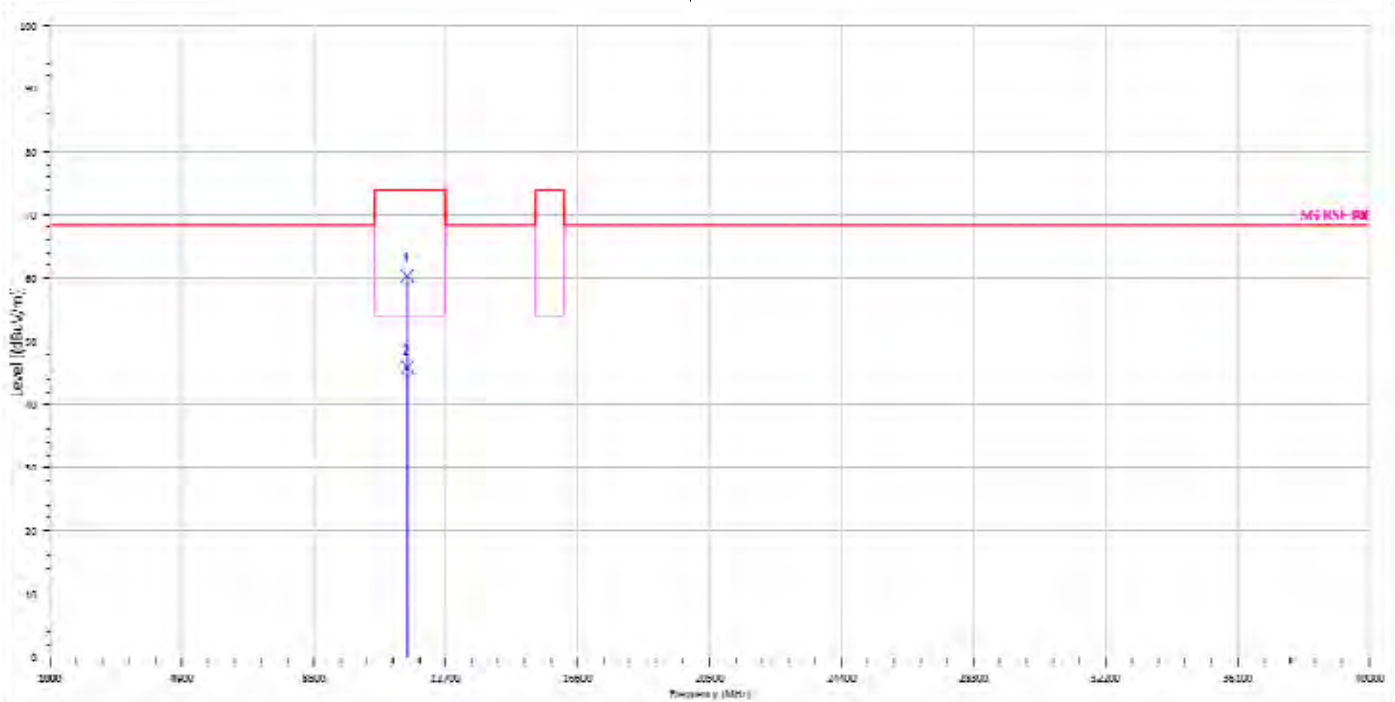
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Operation Mode : 802.11aB4 Test Date : 2018/5/8
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
11570.00	H	Peak	49.28	11.06	60.34	74	-13.66
11570.00	H	Average	34.84	11.06	45.90	54	-8.10

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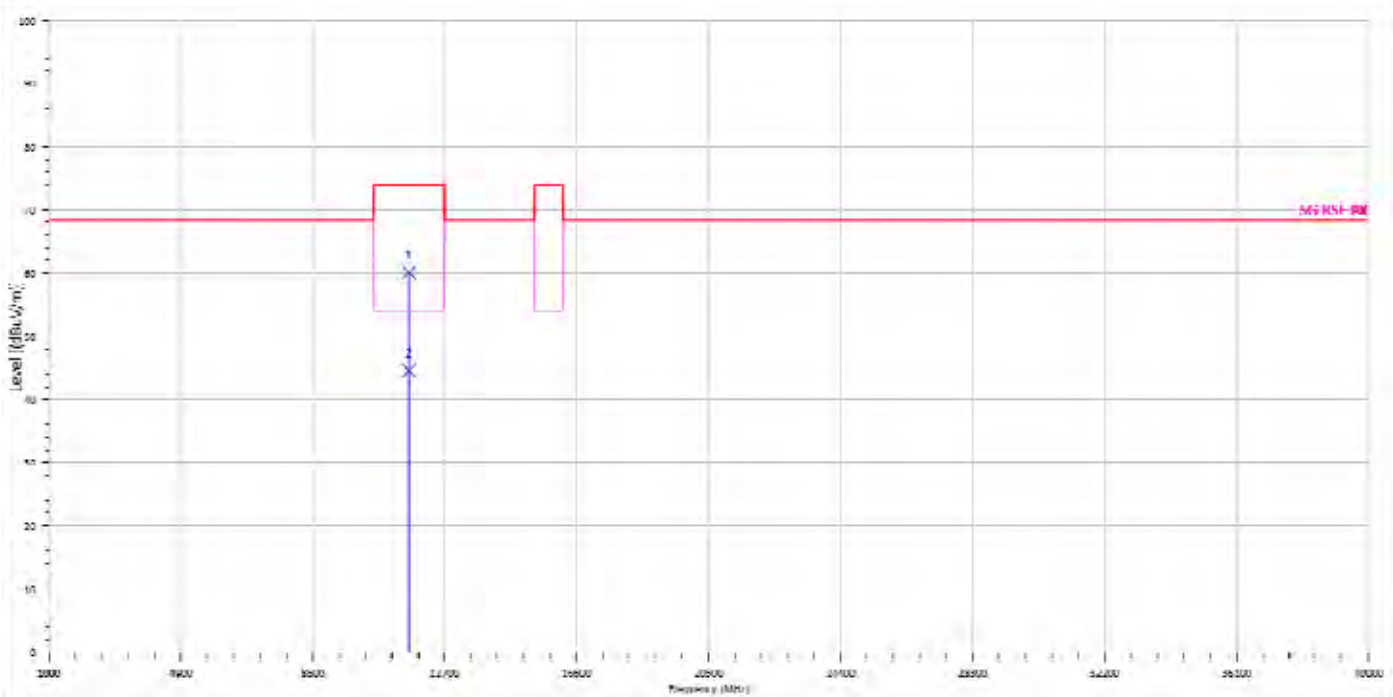
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Operation Mode : 802.11aB4 Test Date : 2018/5/8
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
11650.00	H	Peak	49.38	10.69	60.07	74	-13.93
11650.00	H	Average	33.90	10.69	44.59	54	-9.41

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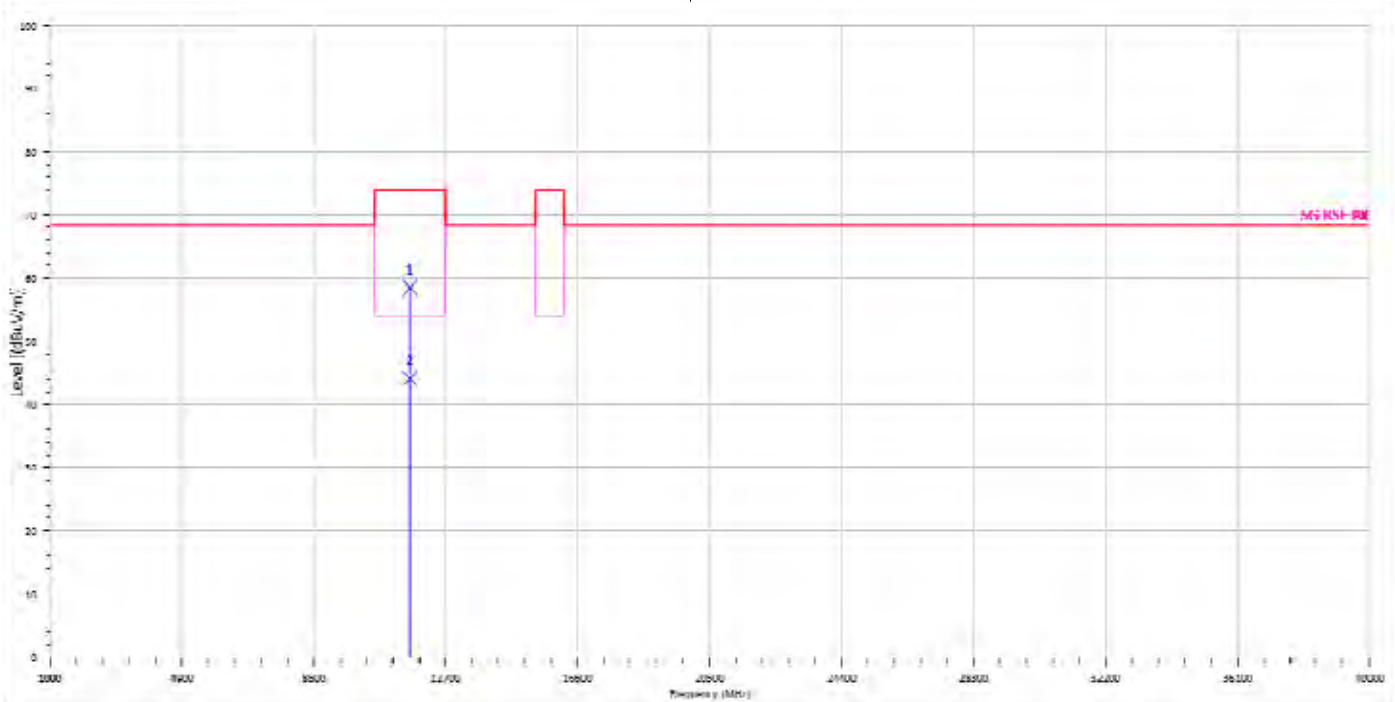
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Operation Mode : 802.11aB4 Test Date : 2018/5/8
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
11650.00	H	Peak	47.77	10.69	58.46	74	-15.54
11650.00	H	Average	33.38	10.69	44.07	54	-9.93

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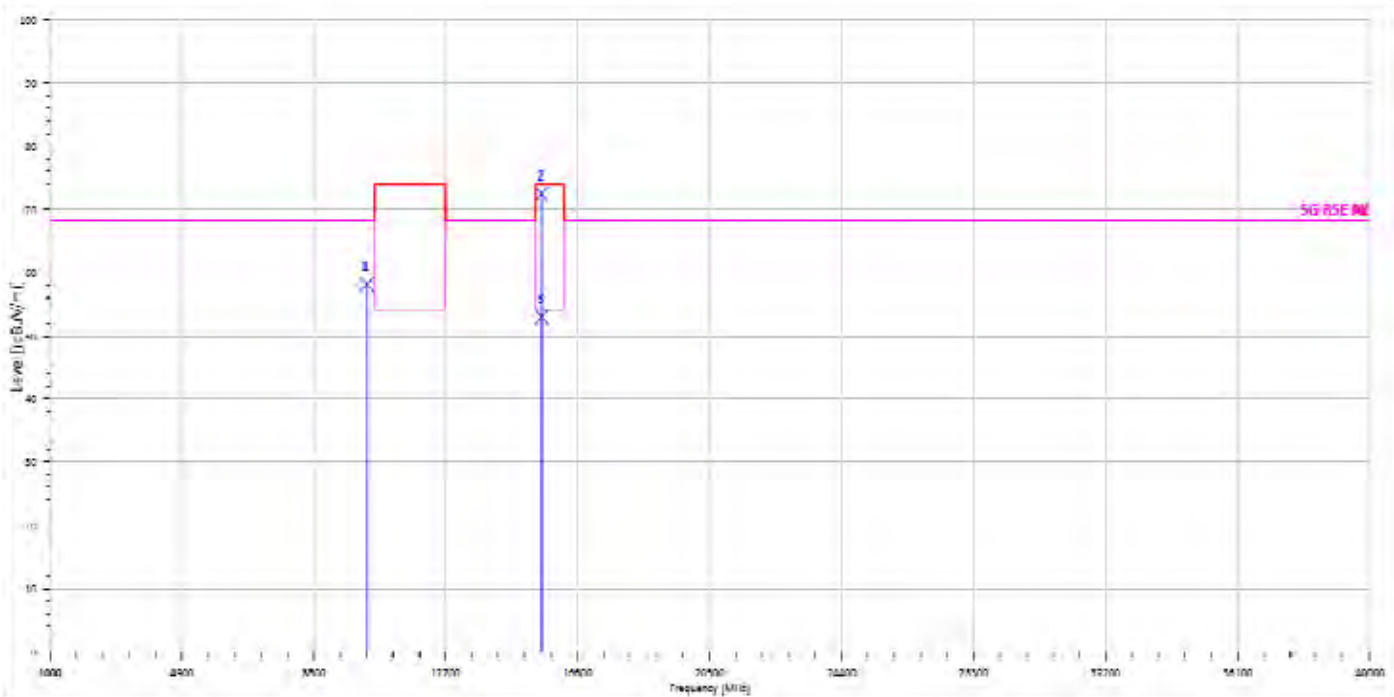
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode :	802.11n20B1	Test Date :	2018/5/8
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10360.00	H	Peak	48.85	9.27	58.12	68.3	-10.18
15540.00	H	Peak	60.45	11.01	72.46	74	-1.54
15540.00	H	Average	41.99	11.01	52.99	54	-1.01

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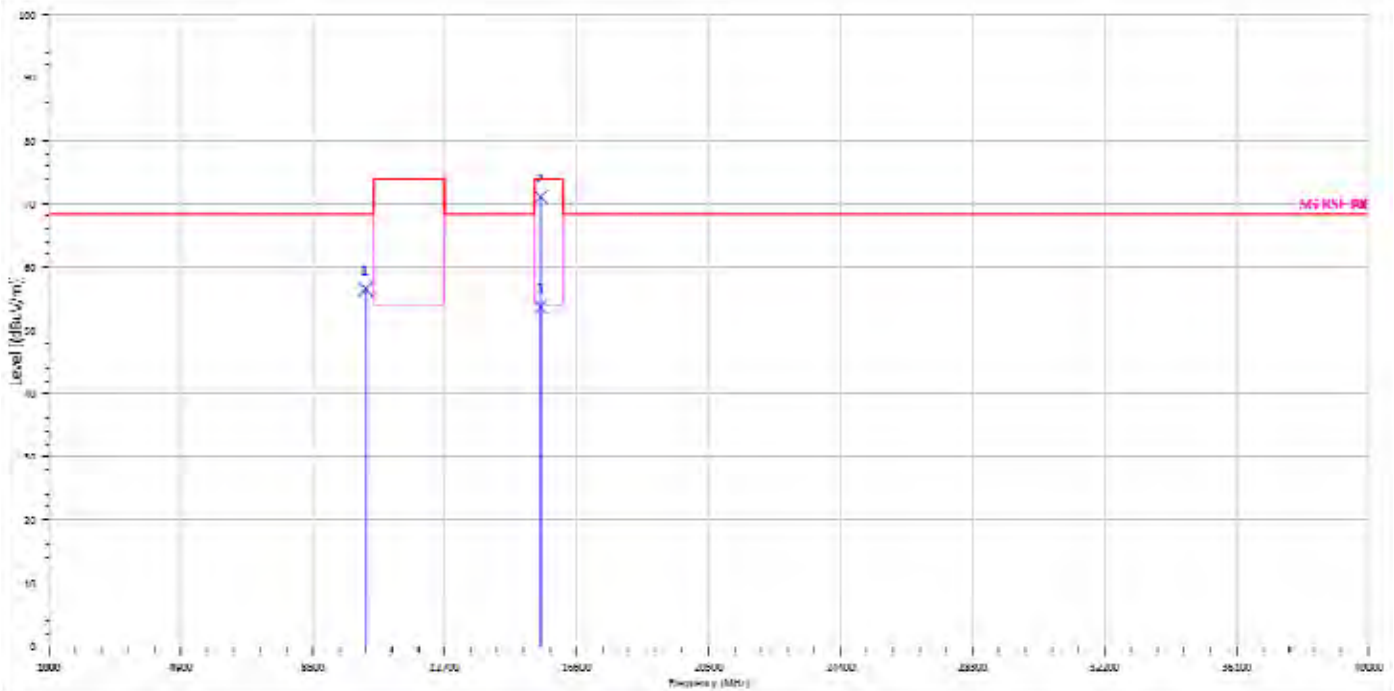
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Operation Mode :	802.11n20B1	Test Date :	2018/5/8
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
10360.00	H	Peak	47.28	9.27	56.55	68.3	-11.75
15540.00	H	Peak	60.11	11.01	71.12	74	-2.88
15540.00	H	Average	42.70	11.01	53.71	54	-0.29

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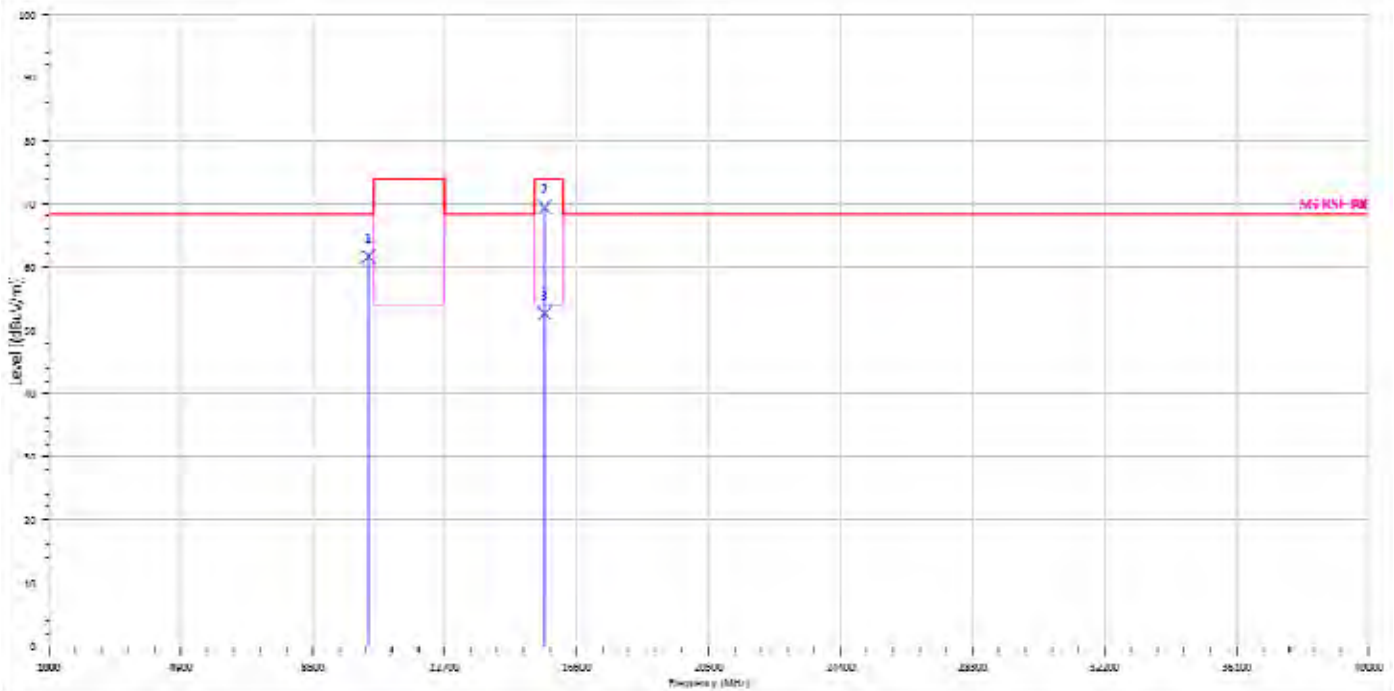
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Operation Mode :	802.11n20B1	Test Date :	2018/5/8
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
10440.00	H	Peak	52.14	9.57	61.71	68.3	-6.59
15660.00	H	Peak	58.87	10.58	69.45	74	-4.55
15660.00	H	Average	42.14	10.58	52.73	54	-1.27

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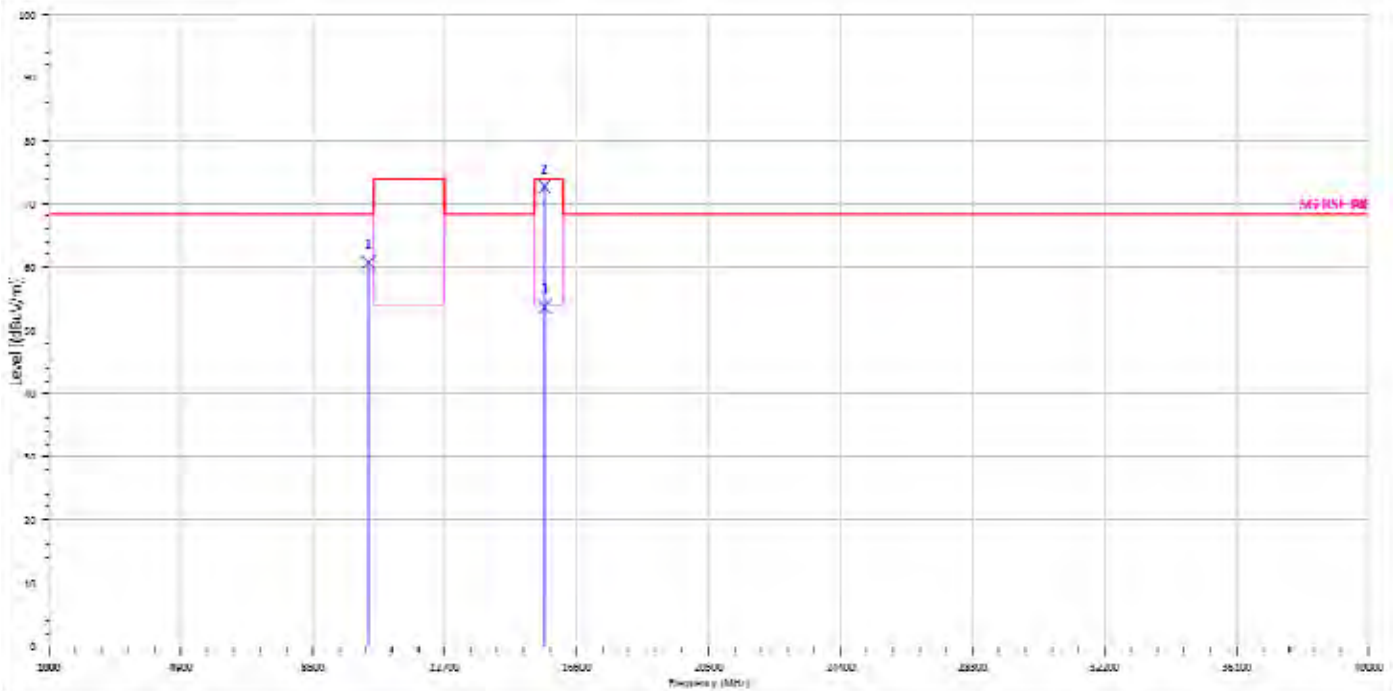
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Operation Mode :	802.11n20B1	Test Date :	2018/5/8
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
10440.00	H	Peak	51.18	9.57	60.75	68.3	-7.55
15660.00	H	Peak	62.20	10.58	72.78	74	-1.22
15660.00	H	Average	43.13	10.58	53.72	54	-0.28

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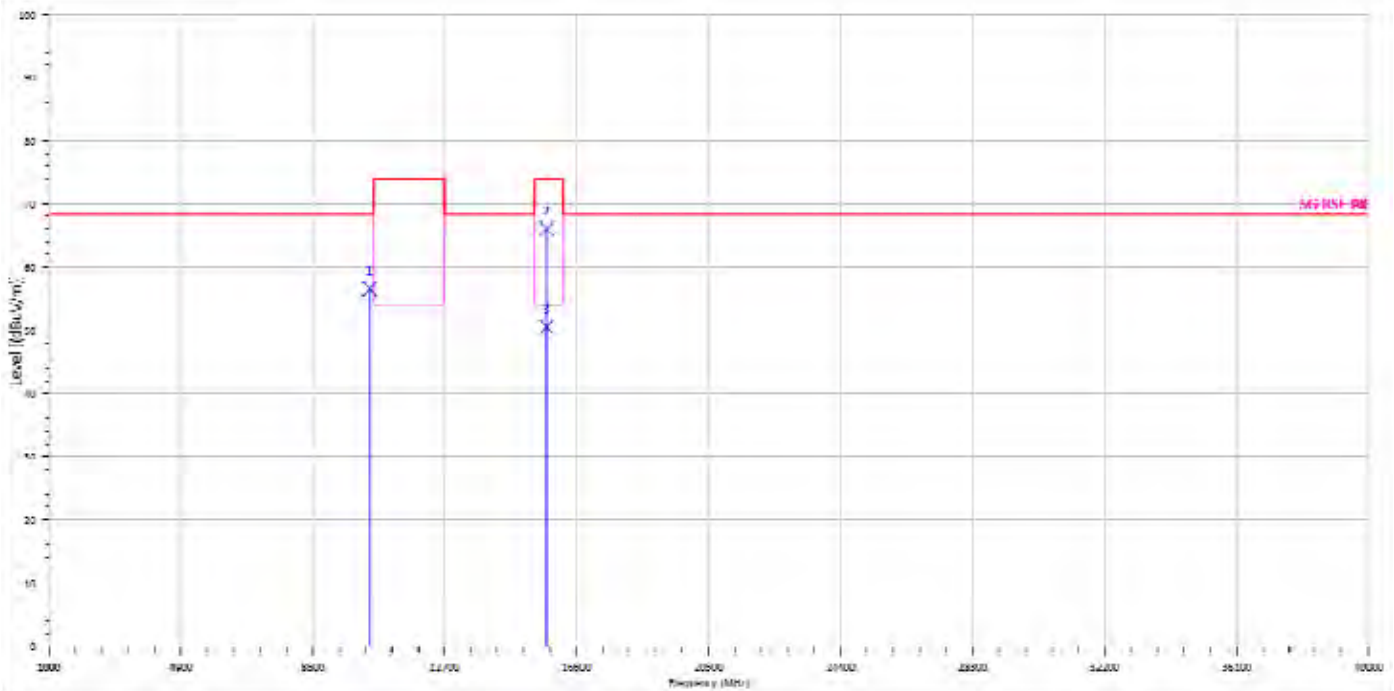
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Operation Mode :	802.11n20B1	Test Date :	2018/5/8
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
10480.00	H	Peak	46.94	9.64	56.58	68.3	-11.72
15720.00	H	Peak	55.54	10.55	66.09	74	-7.91
15720.00	H	Average	39.96	10.55	50.51	54	-3.49

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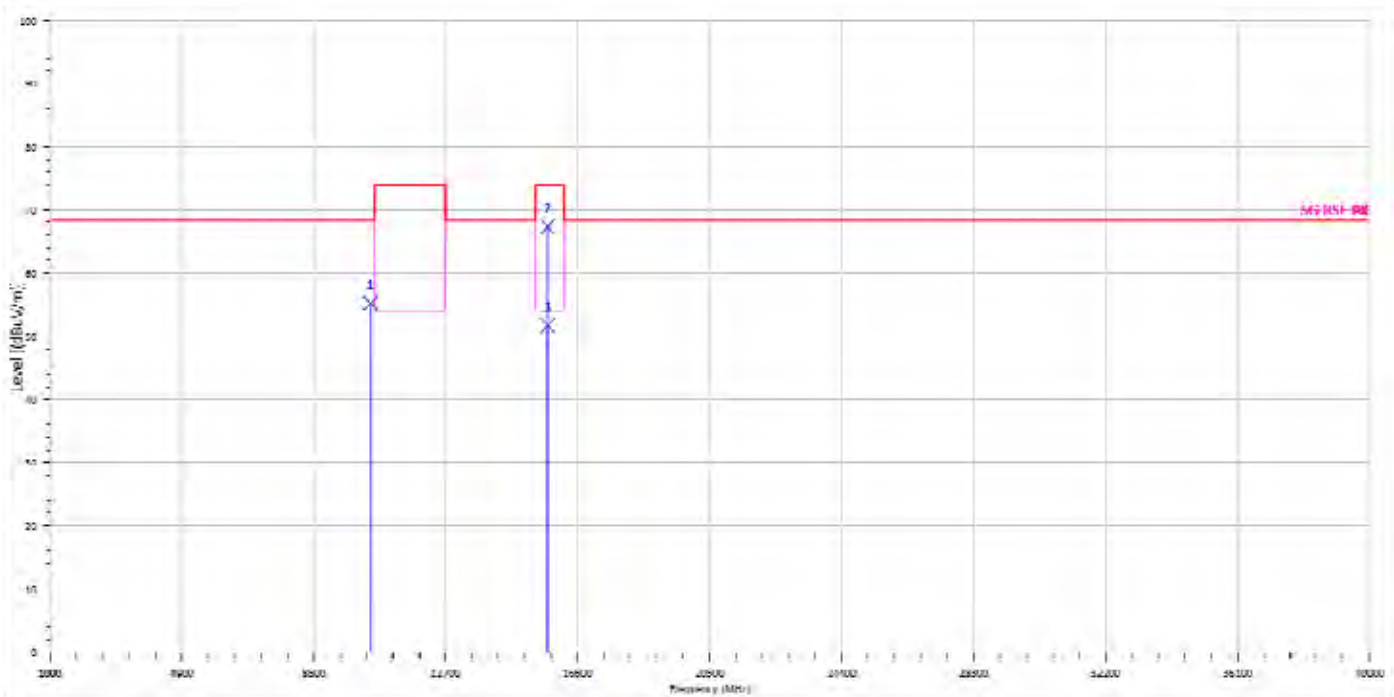
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Operation Mode :	802.11n20B1	Test Date :	2018/5/8
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
10480.00	H	Peak	45.58	9.64	55.22	68.3	-13.08
15720.00	H	Peak	56.78	10.55	67.34	74	-6.66
15720.00	H	Average	41.13	10.55	51.68	54	-2.32

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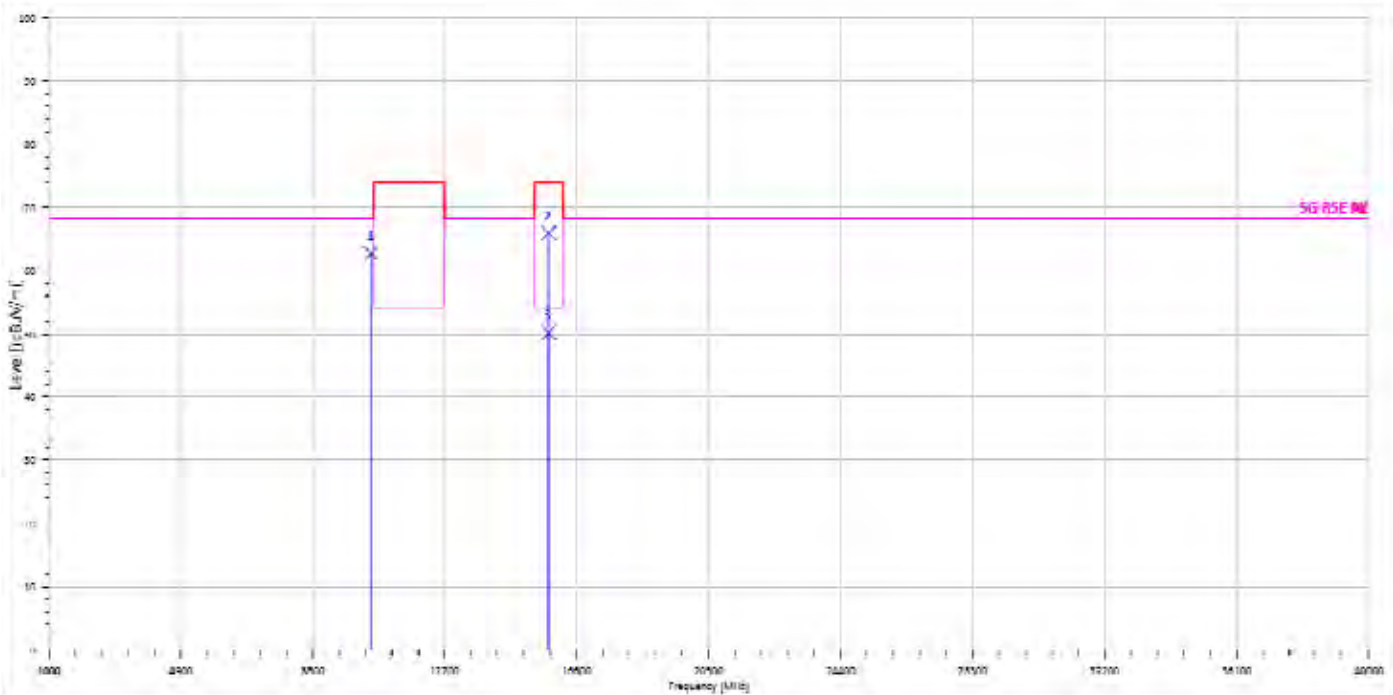
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode : 802.11n20B2 Test Date : 2018/5/8
 Fundamental Frequency : 5260 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low 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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10520.00	H	Peak	52.90	9.77	62.67	68.3	-5.63
15780.00	H	Peak	55.97	9.98	65.95	74	-8.05
15780.00	H	Average	40.15	9.98	50.13	54	-3.87

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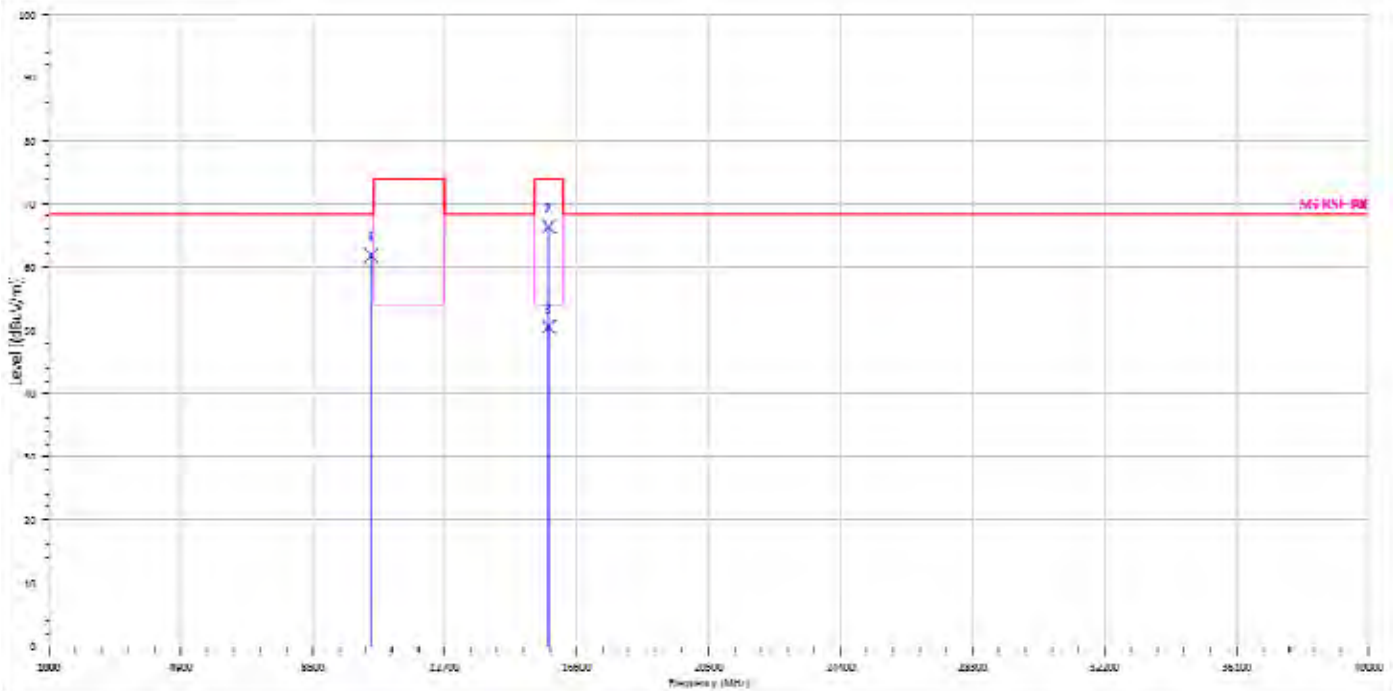
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Operation Mode :	802.11n20B2	Test Date :	2018/5/8
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
10520.00	H	Peak	52.10	9.77	61.87	68.3	-6.43
15780.00	H	Peak	56.43	9.98	66.40	74	-7.60
15780.00	H	Average	40.55	9.98	50.53	54	-3.47

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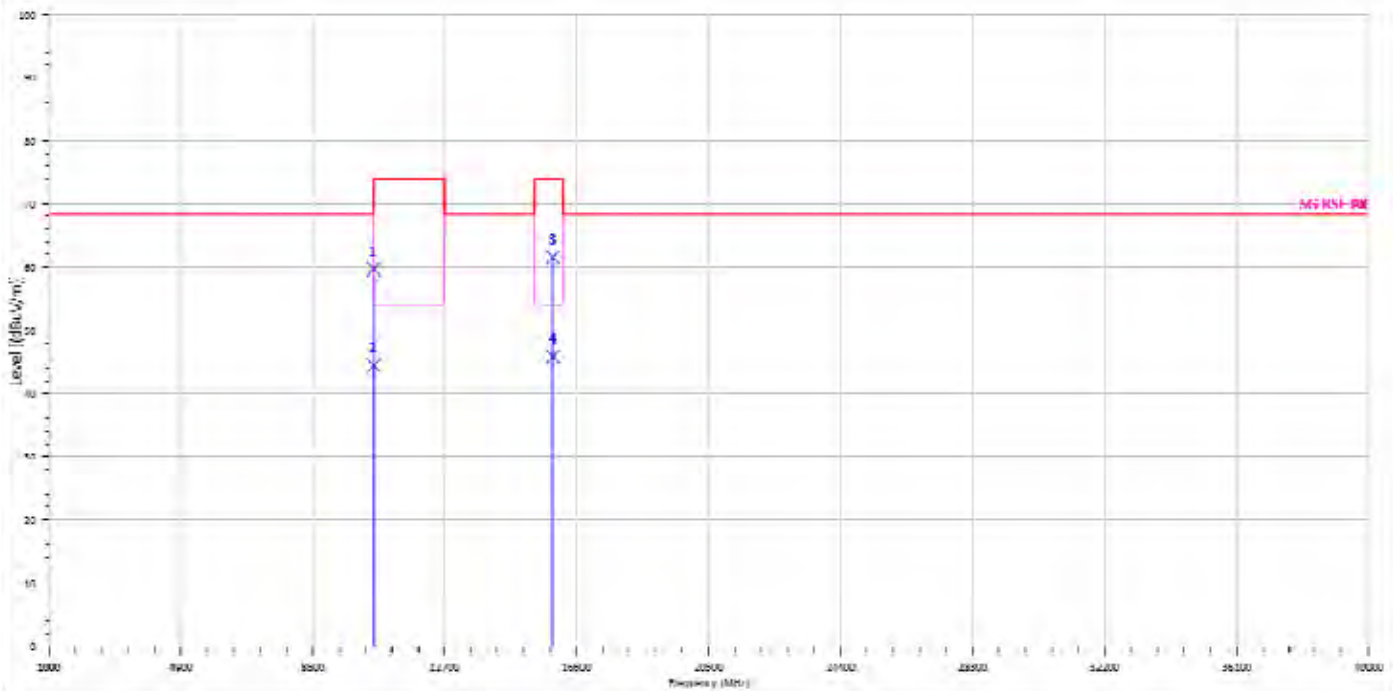
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Operation Mode : 802.11n20B2 Test Date : 2018/5/8
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
10600.00	H	Peak	49.57	10.15	59.71	74	-14.29
10600.00	H	Average	34.31	10.15	44.46	54	-9.54
15900.00	H	Peak	52.05	9.54	61.58	74	-12.42
15900.00	H	Average	36.36	9.54	45.89	54	-8.11

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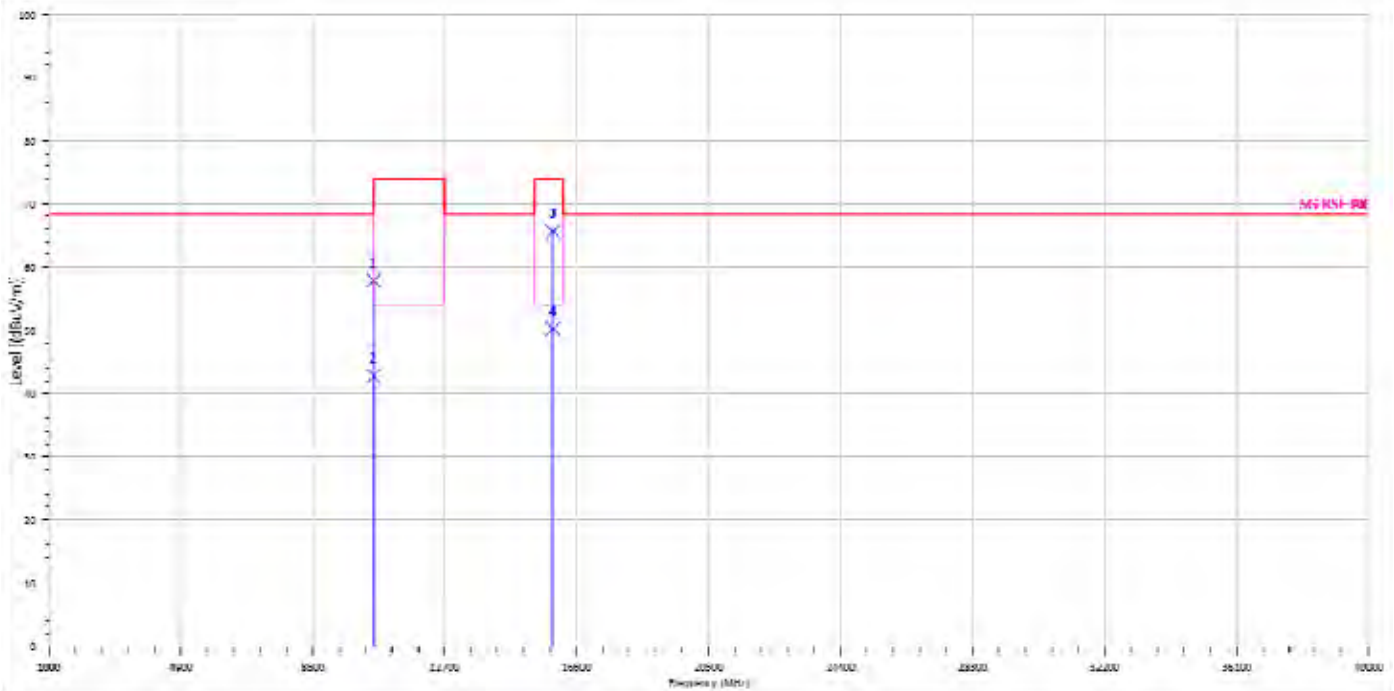
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Operation Mode :	802.11n20B2	Test Date :	2018/5/8
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
10600.00	H	Peak	47.71	10.15	57.86	74	-16.15
10600.00	H	Average	32.60	10.15	42.75	54	-11.25
15900.00	H	Peak	56.13	9.54	65.67	74	-8.33
15900.00	H	Average	40.69	9.54	50.23	54	-3.78

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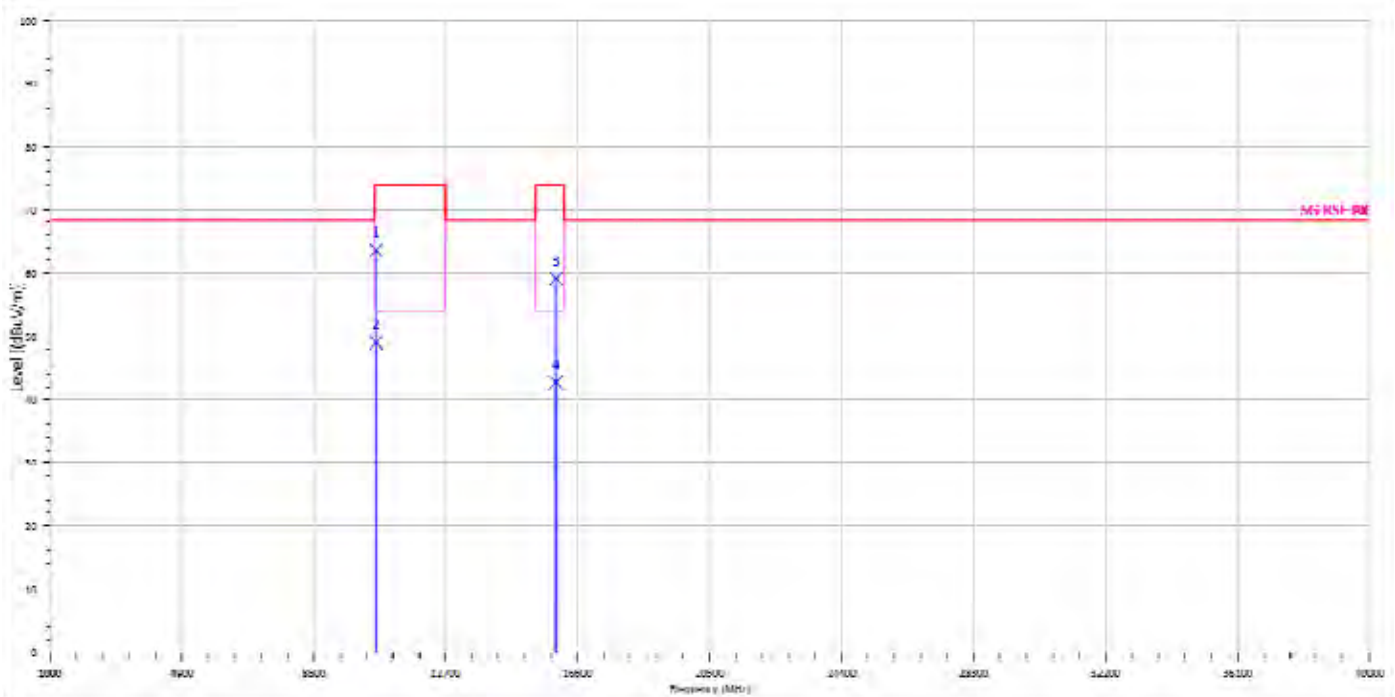
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Operation Mode :	802.11n20B2	Test Date :	2018/5/8
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
10640.00	H	Peak	53.55	10.07	63.62	74	-10.38
10640.00	H	Average	38.92	10.07	48.99	54	-5.01
15960.00	H	Peak	50.02	9.11	59.13	74	-14.87
15960.00	H	Average	33.58	9.11	42.70	54	-11.30

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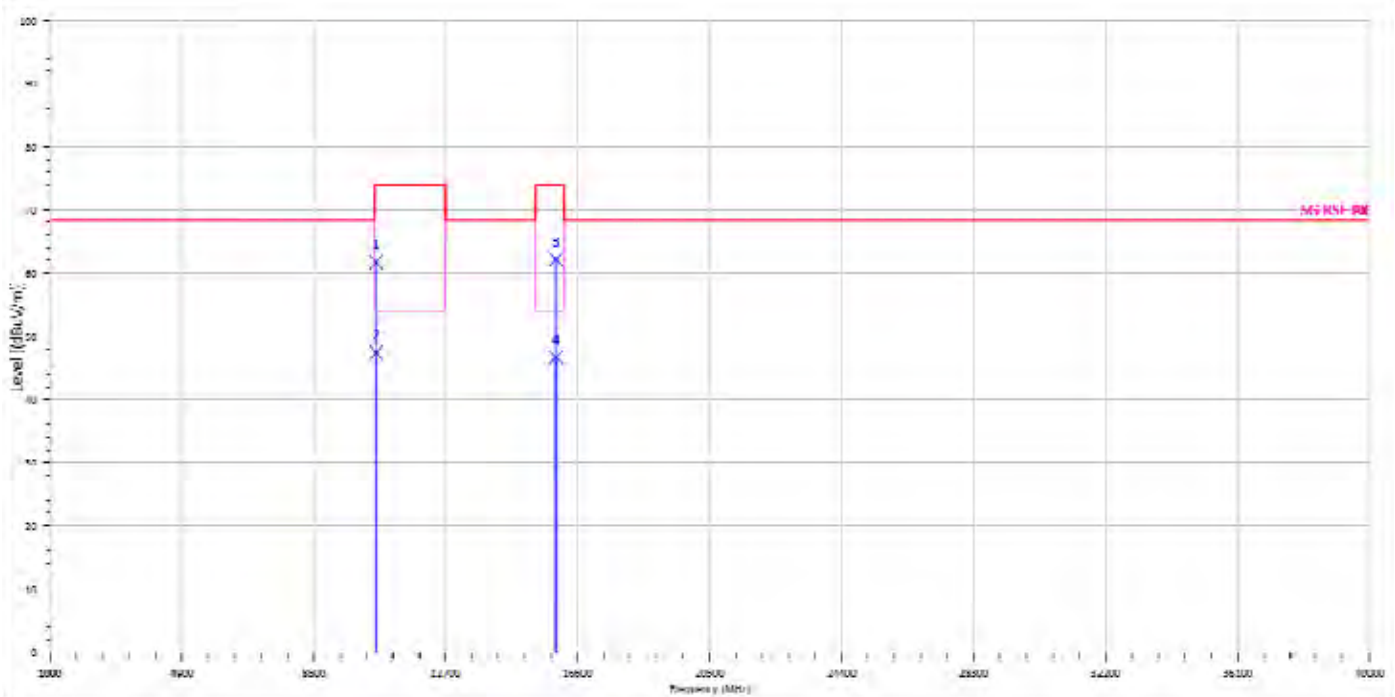
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Operation Mode :	802.11n20B2	Test Date :	2018/5/8
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
10640.00	H	Peak	51.68	10.07	61.75	74	-12.25
10640.00	H	Average	37.35	10.07	47.42	54	-6.58
15960.00	H	Peak	53.10	9.11	62.21	74	-11.79
15960.00	H	Average	37.57	9.11	46.68	54	-7.32

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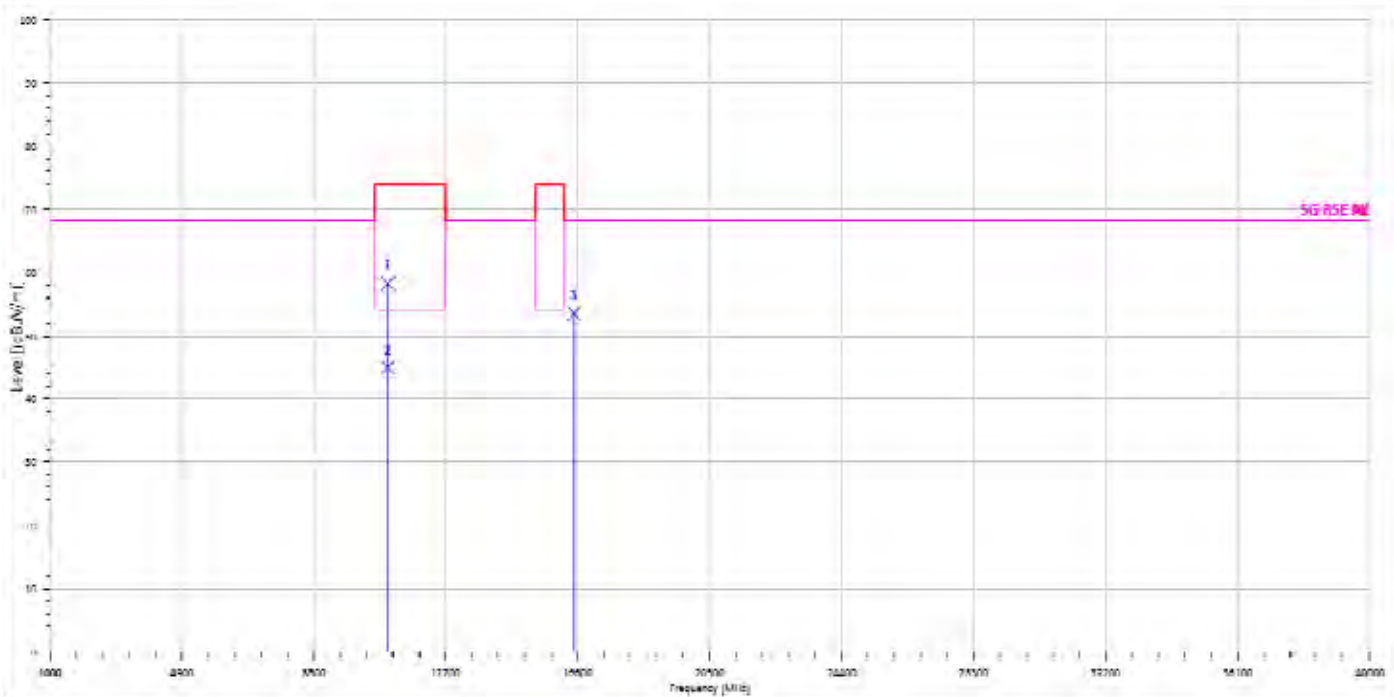
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode :	802.11n20B3	Test Date :	2018/5/30
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	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
11000.00	H	Peak	46.55	11.71	58.26	74	-15.74
11000.00	H	Average	33.21	11.71	44.92	54	-9.08
16500.00	H	Peak	43.09	10.43	53.52	68.3	-14.78

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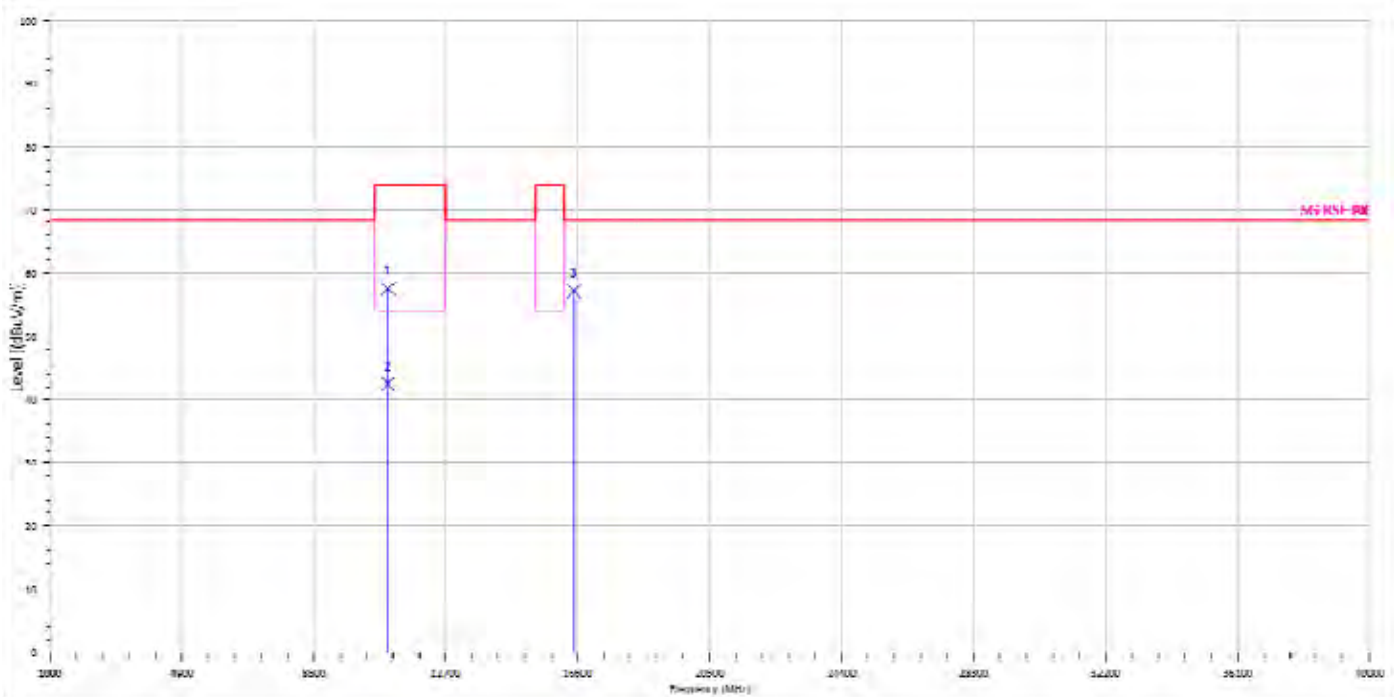
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Operation Mode :	802.11n20B3	Test Date :	2018/5/30
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
11000.00	H	Peak	45.80	11.71	57.51	74	-16.49
11000.00	H	Average	30.72	11.71	42.43	54	-11.57
16500.00	H	Peak	46.73	10.43	57.16	68.3	-11.14

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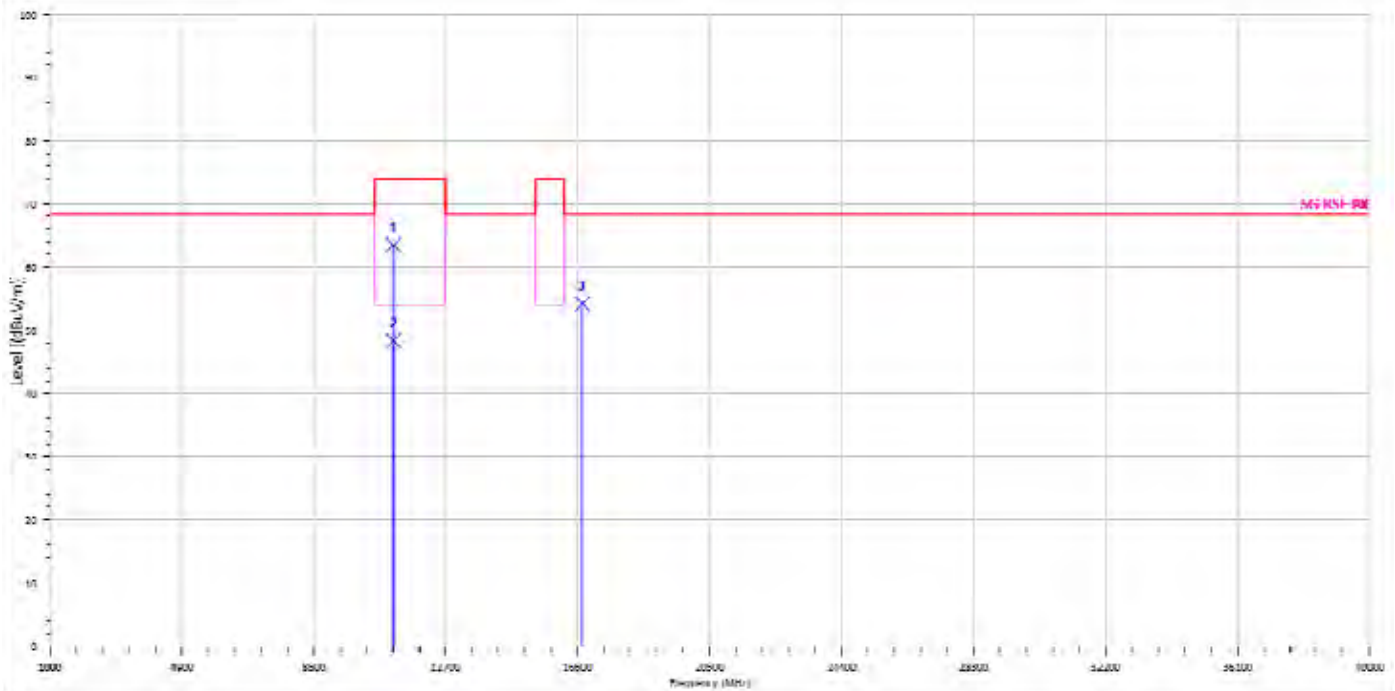
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Operation Mode : 802.11n20B3 Test Date : 2018/5/8
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
11160.00	H	Peak	51.98	11.51	63.49	74	-10.51
11160.00	H	Average	36.85	11.51	48.36	54	-5.64
16740.00	H	Peak	42.59	11.62	54.21	68.3	-14.09

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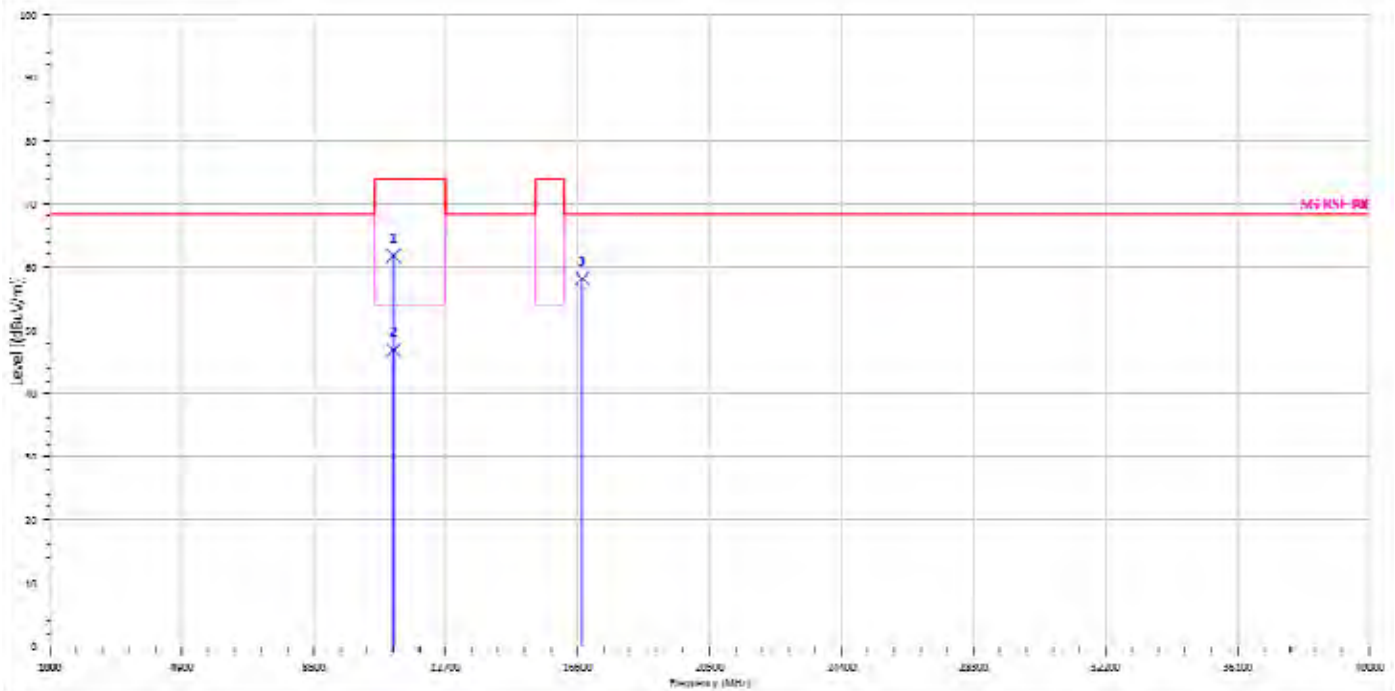
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Operation Mode :	802.11n20B3	Test Date :	2018/5/8
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
11160.00	H	Peak	50.29	11.51	61.80	74	-12.20
11160.00	H	Average	35.37	11.51	46.88	54	-7.12
16740.00	H	Peak	46.57	11.62	58.18	68.3	-10.12

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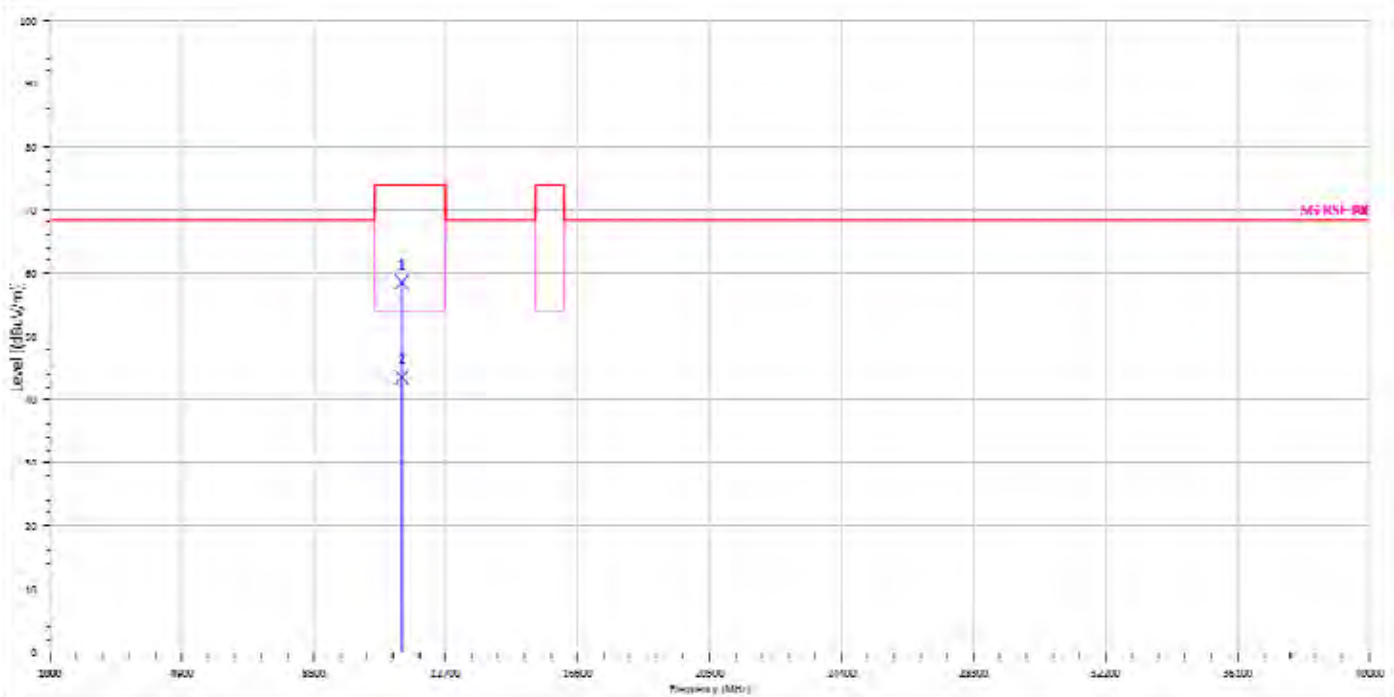
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Operation Mode :	802.11n20B3	Test Date :	2018/5/8
Fundamental Frequency :	5720 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
11440.00	H	Peak	50.39	11.41	61.80	74	-12.20
11440.00	H	Average	35.53	11.41	46.94	54	-7.06
17160.00	H	Peak	42.02	13.26	55.28	68.3	-13.02

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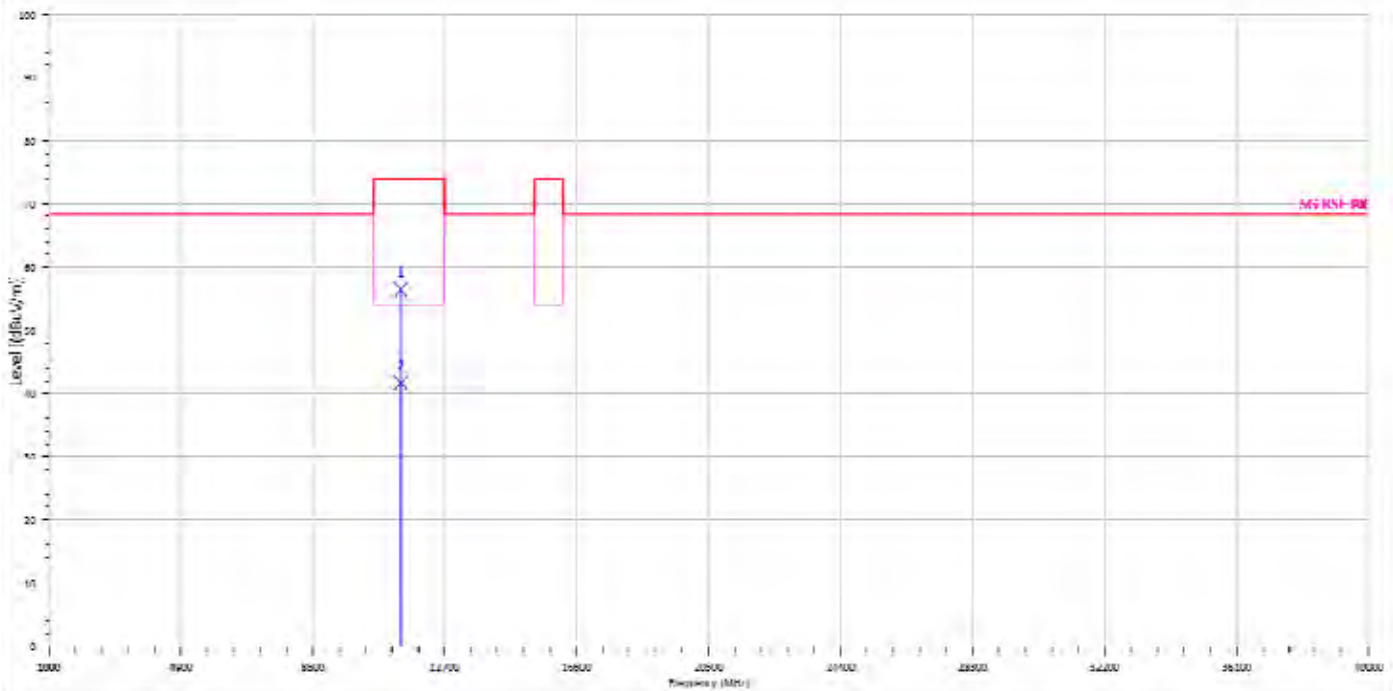
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Operation Mode :	802.11n20B3	Test Date :	2018/5/8
Fundamental Frequency :	5720 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
11440.00	H	Peak	50.04	11.41	61.45	74	-12.55
11440.00	H	Average	35.27	11.41	46.68	54	-7.32
17160.00	H	Peak	46.39	13.26	59.65	68.3	-8.65

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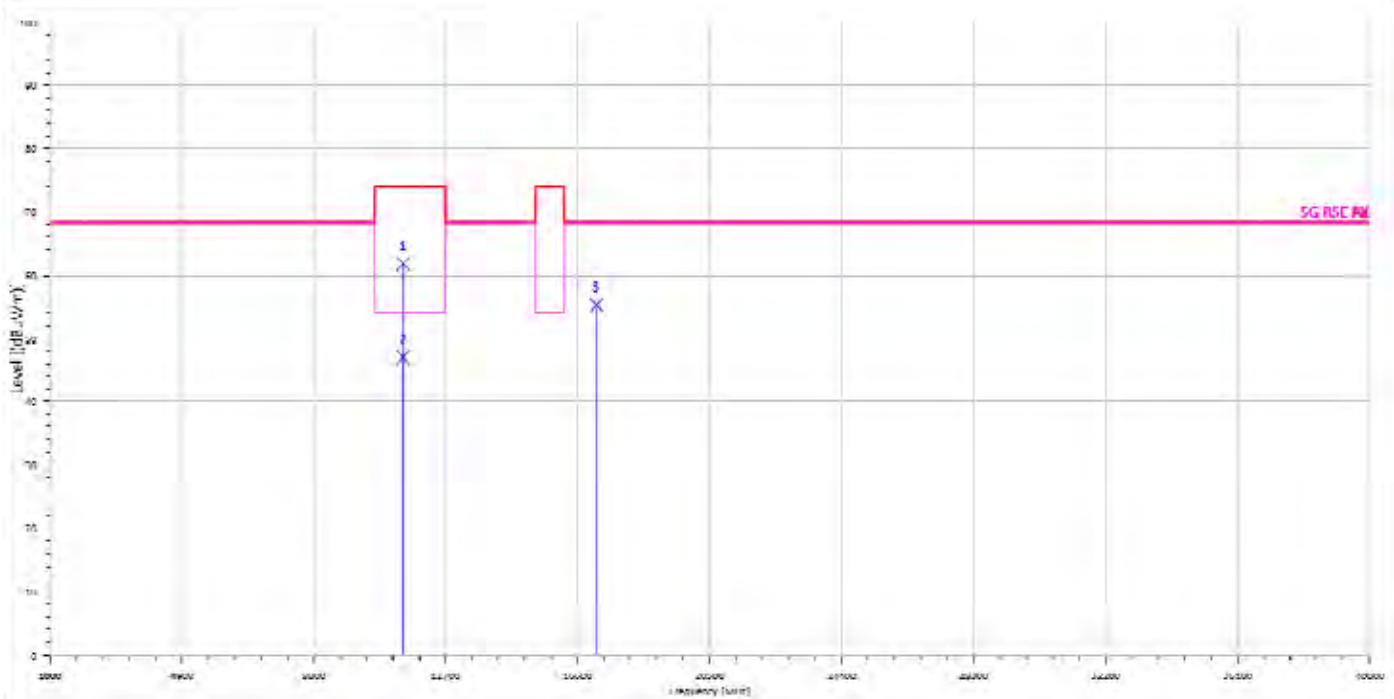
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Operation Mode : 802.11n20B3 Test Date : 2018/5/8
 Fundamental Frequency : 5720 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
11440.00	H	Peak	50.39	11.41	61.80	74	-12.20
11440.00	H	Average	35.53	11.41	46.94	54	-7.06
17160.00	H	Peak	42.02	13.26	55.28	68.3	-13.02

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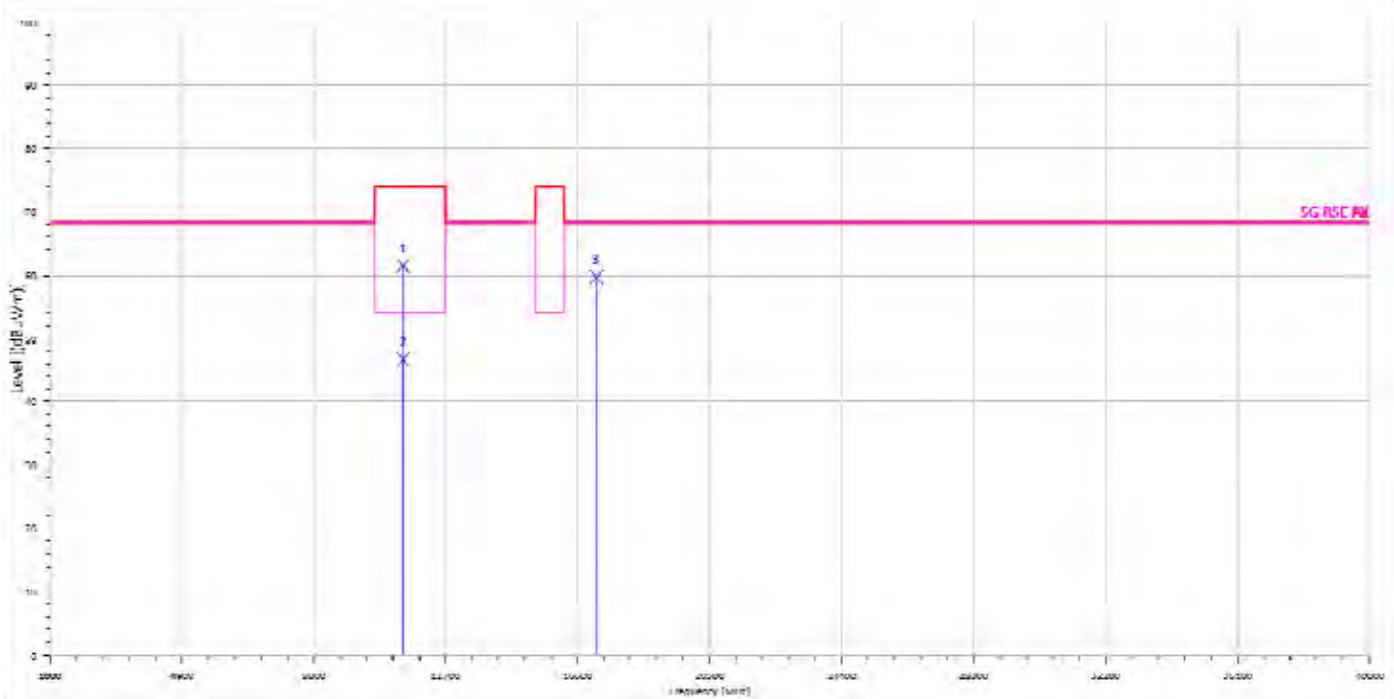
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Operation Mode : 802.11n20B3 Test Date : 2018/5/8
 Fundamental Frequency : 5720 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
11440.00	H	Peak	50.04	11.41	61.45	74	-12.55
11440.00	H	Average	35.27	11.41	46.68	54	-7.32
17160.00	H	Peak	46.39	13.26	59.65	68.3	-8.65

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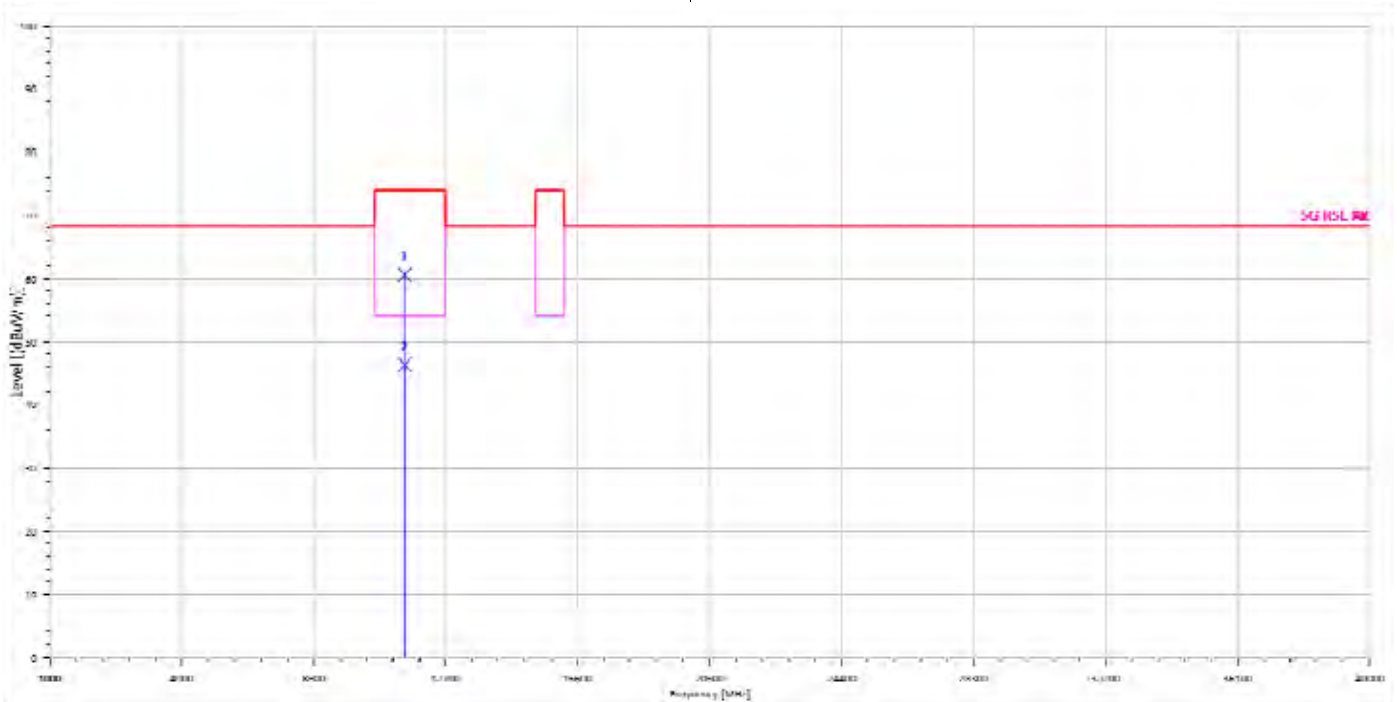
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode :	802.11n20B4	Test Date :	2018/5/8
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	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
11490.00	H	Peak	49.40	11.18	60.58	74	-13.42
11490.00	H	Average	35.16	11.18	46.33	54	-7.67

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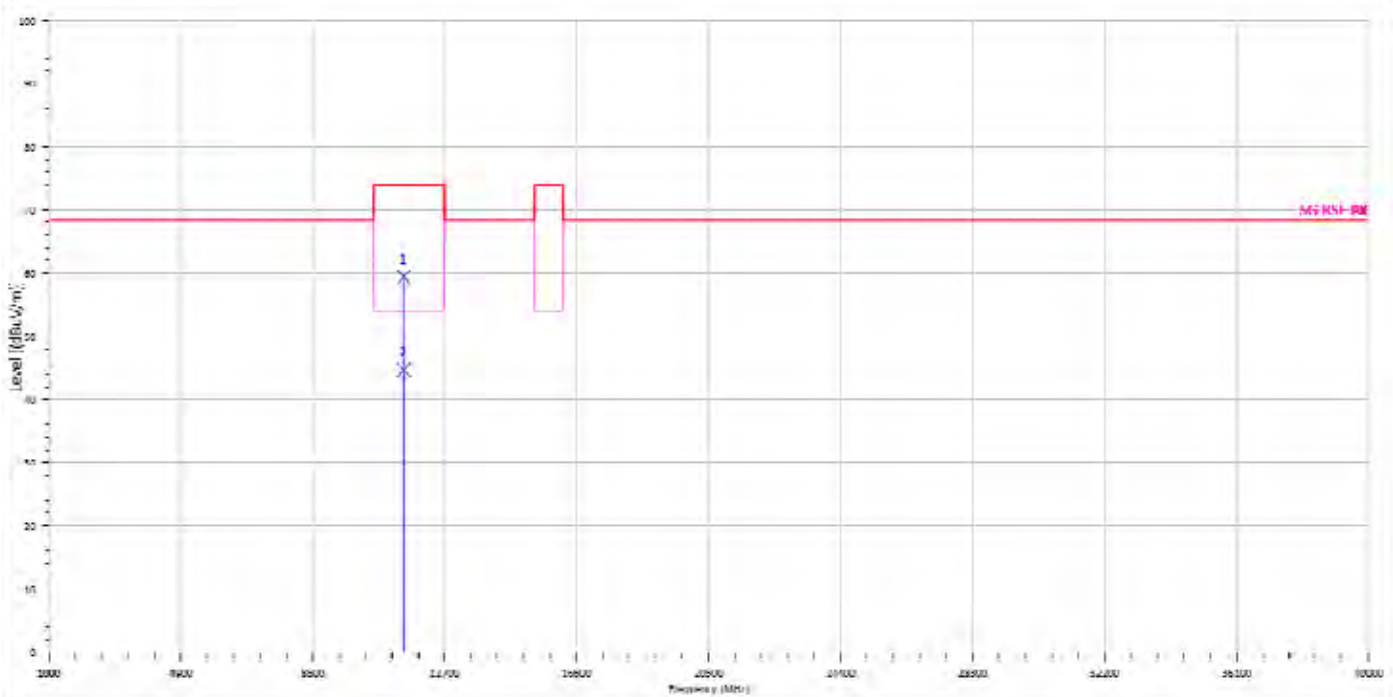
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Operation Mode :	802.11n20B4	Test Date :	2018/5/8
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
11490.00	H	Peak	48.23	11.18	59.40	74	-14.60
11490.00	H	Average	33.52	11.18	44.70	54	-9.30

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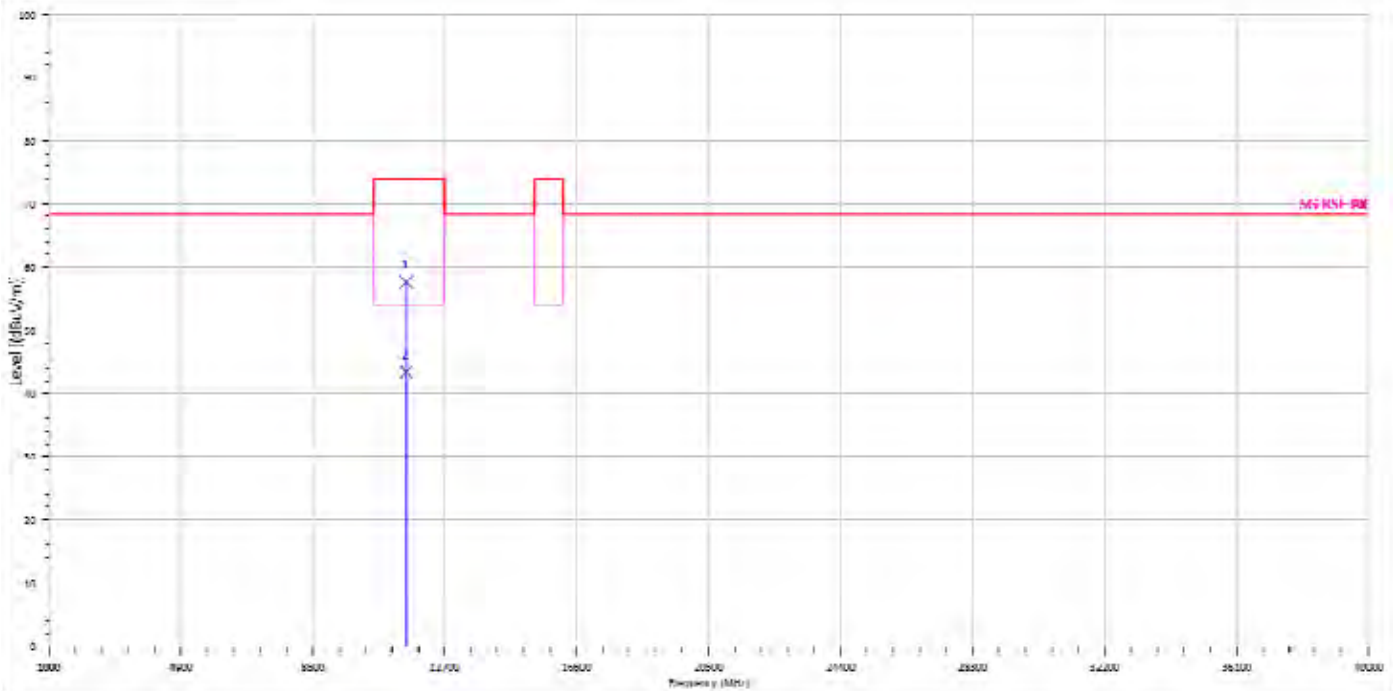
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Operation Mode : 802.11n20B4 Test Date : 2018/5/8
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
11570.00	H	Peak	46.55	11.06	57.61	74	-16.39
11570.00	H	Average	32.34	11.06	43.41	54	-10.59

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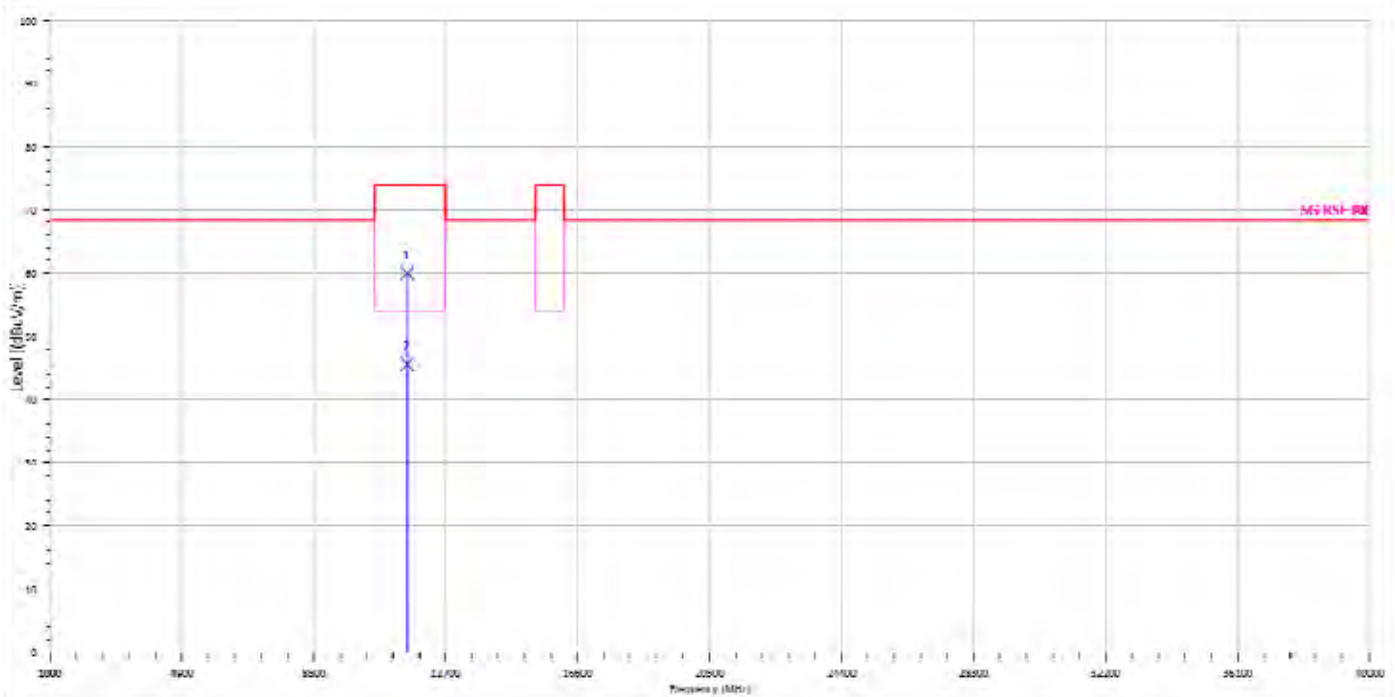
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Operation Mode :	802.11n20B4	Test Date :	2018/5/8
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
11570.00	H	Peak	48.90	11.06	59.97	74	-14.03
11570.00	H	Average	34.53	11.06	45.60	54	-8.40

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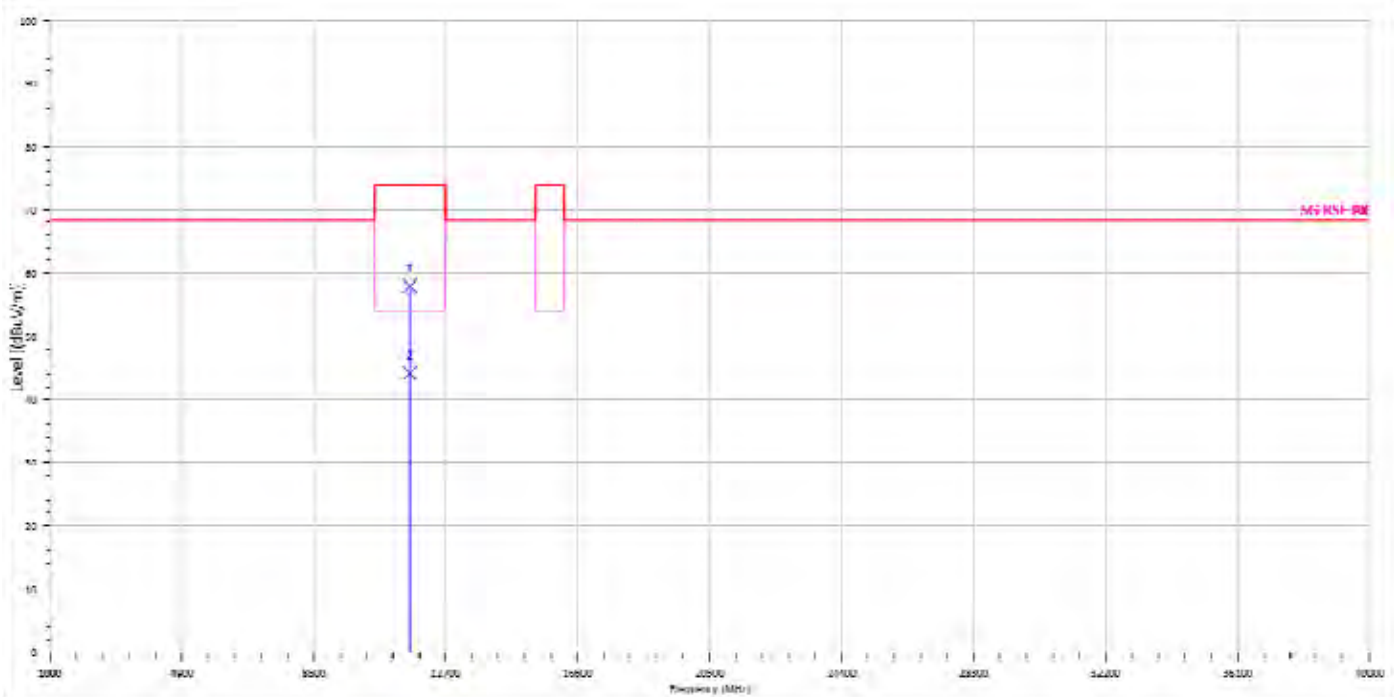
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Operation Mode :	802.11n20B4	Test Date :	2018/5/8
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
11650.00	H	Peak	47.25	10.69	57.94	74	-16.06
11650.00	H	Average	33.48	10.69	44.17	54	-9.83

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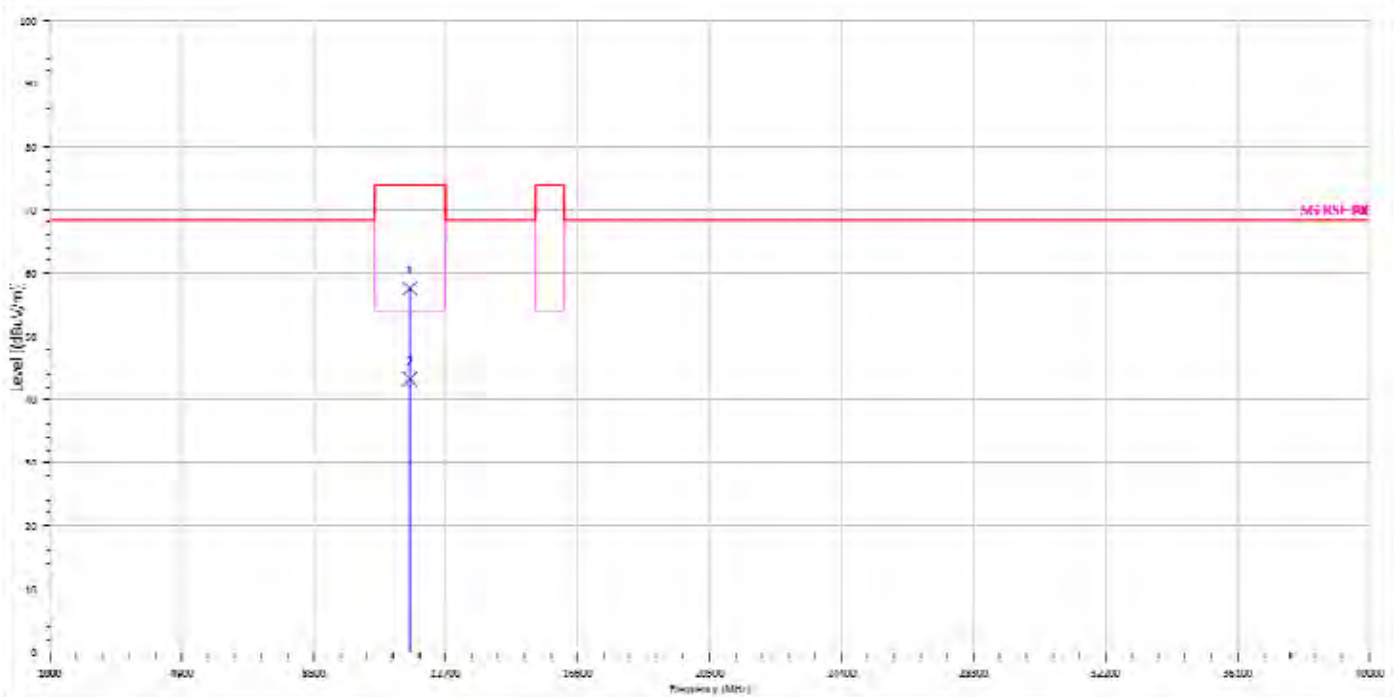
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Operation Mode :	802.11n20B4	Test Date :	2018/5/8
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
11650.00	H	Peak	46.88	10.69	57.57	74	-16.43
11650.00	H	Average	32.53	10.69	43.22	54	-10.78

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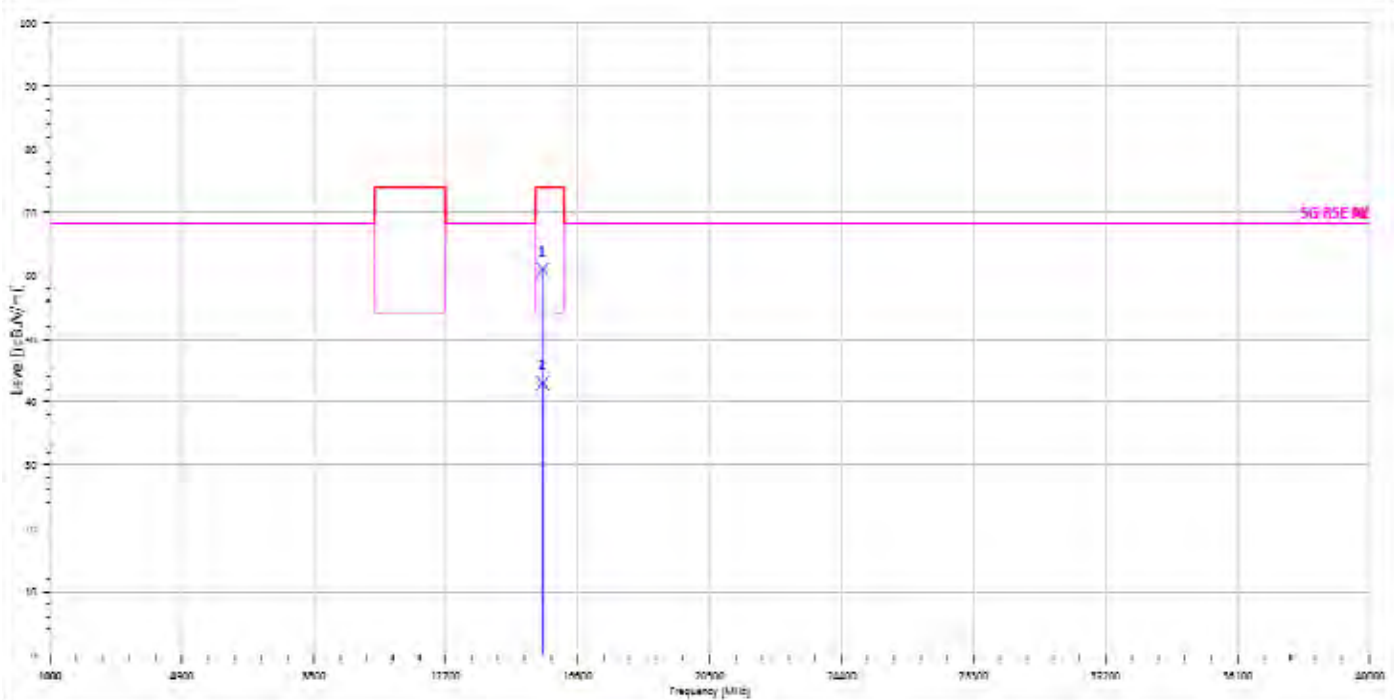
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode :	802.11n40B1	Test Date :	2018/5/8
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	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
15570.00	H	Peak	50.27	10.67	60.94	74	-13.06
15570.00	H	Average	32.28	10.67	42.95	54	-11.05

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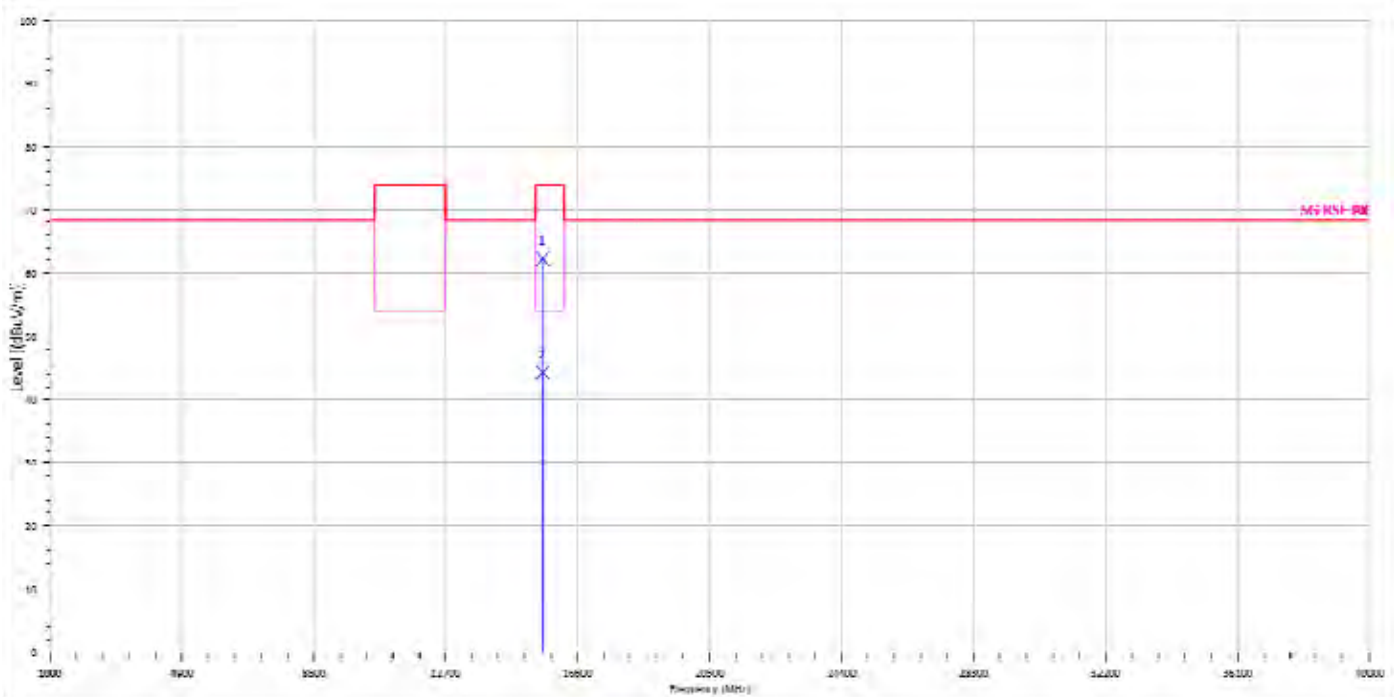
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Operation Mode :	802.11n40B1	Test Date :	2018/5/8
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
15570.00	H	Peak	51.59	10.67	62.26	74	-11.74
15570.00	H	Average	33.66	10.67	44.33	54	-9.67

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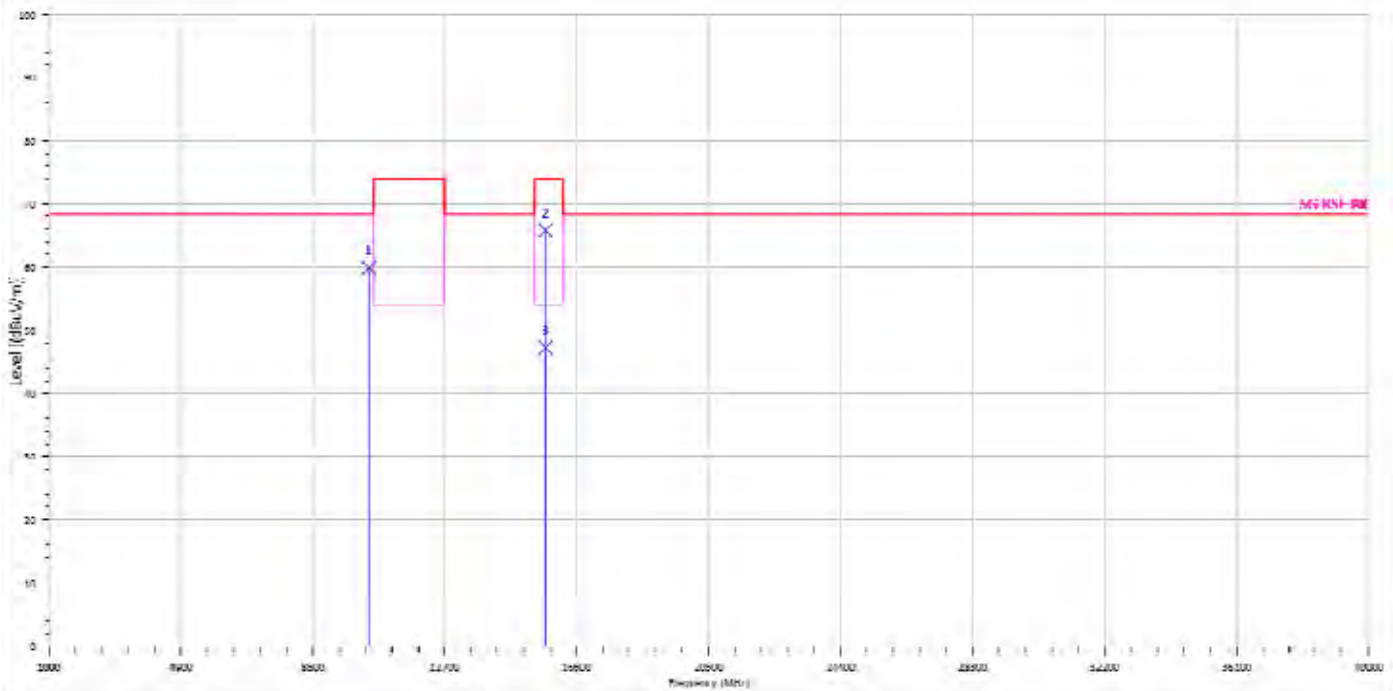
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Operation Mode :	802.11n40B1	Test Date :	2018/5/8
Fundamental Frequency :	5230 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
10460.00	H	Peak	50.26	9.61	59.86	68.3	-8.44
15690.00	H	Peak	55.10	10.71	65.81	74	-8.19
15690.00	H	Average	36.54	10.71	47.24	54	-6.76

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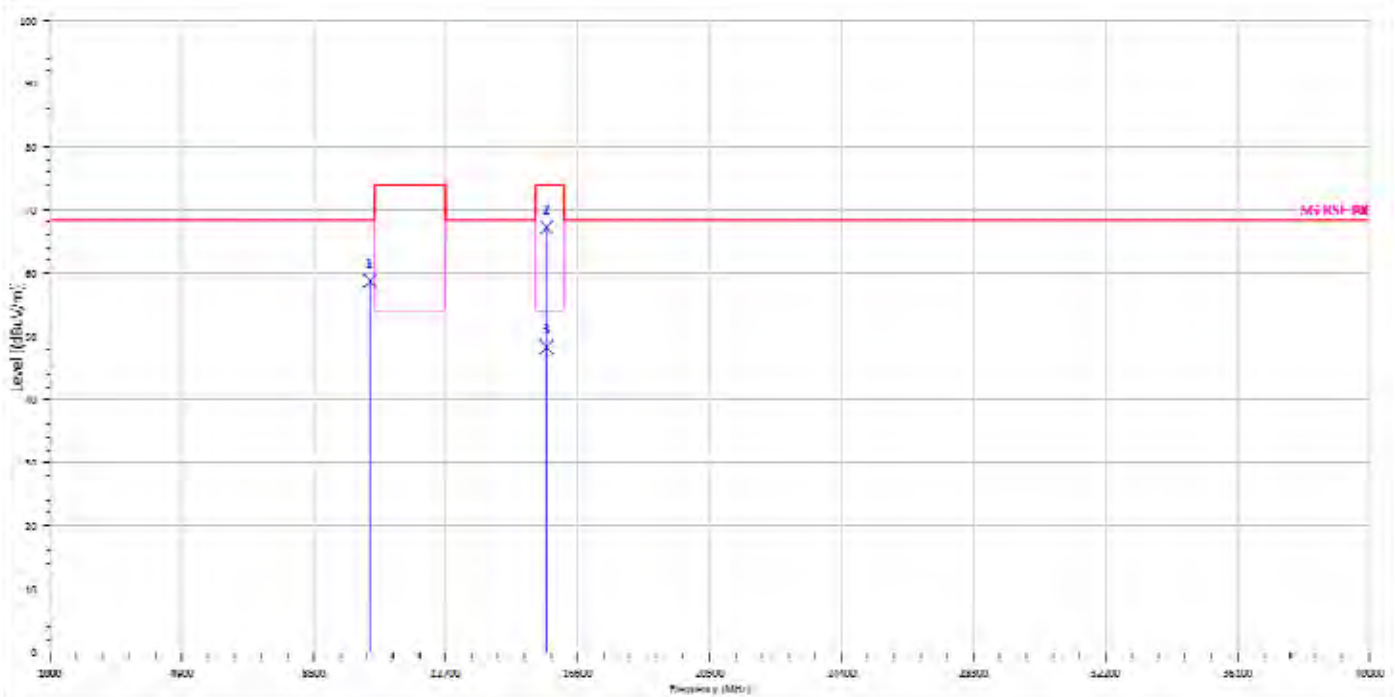
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Operation Mode :	802.11n40B1	Test Date :	2018/5/8
Fundamental Frequency :	5230 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
10460.00	H	Peak	49.13	9.61	58.73	68.3	-9.57
15690.00	H	Peak	56.54	10.71	67.24	74	-6.76
15690.00	H	Average	37.55	10.71	48.26	54	-5.74

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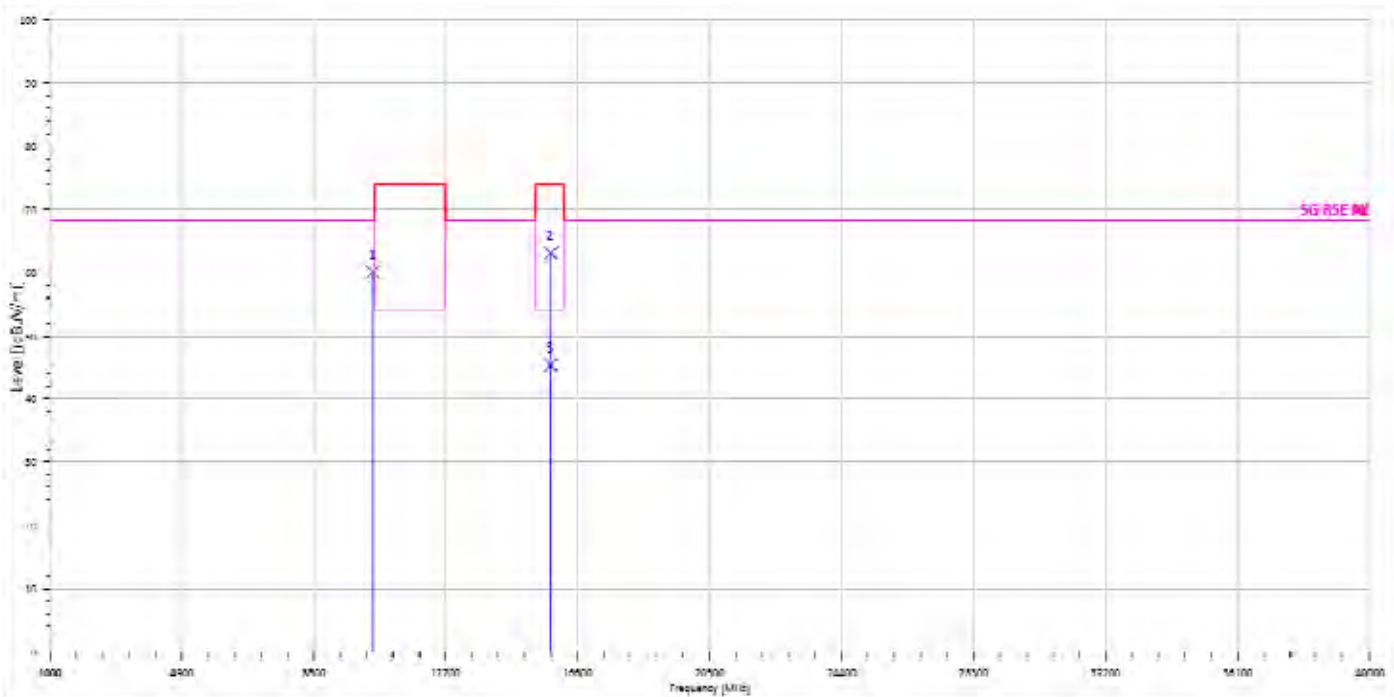
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Mode : 802.11n40B2 Test Date : 2018/5/8
 Fundamental Frequency : 5270 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low 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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10540.00	H	Peak	50.21	9.87	60.08	68.3	-8.22
15810.00	H	Peak	53.30	9.76	63.06	74	-10.94
15810.00	H	Average	35.60	9.76	45.35	54	-8.65

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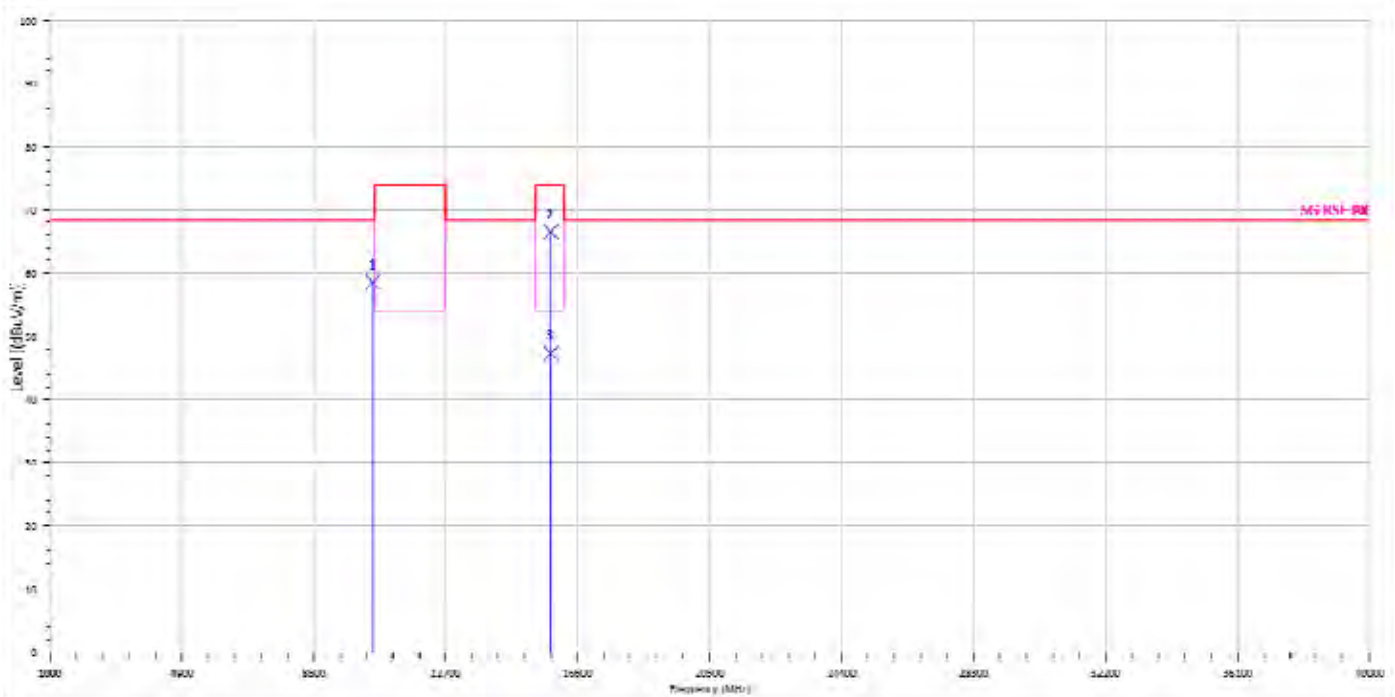
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Operation Mode :	802.11n40B2	Test Date :	2018/5/8
Fundamental Frequency :	5270 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
10540.00	H	Peak	48.64	9.87	58.50	68.3	-9.80
15810.00	H	Peak	56.78	9.76	66.54	74	-7.46
15810.00	H	Average	37.53	9.76	47.29	54	-6.71

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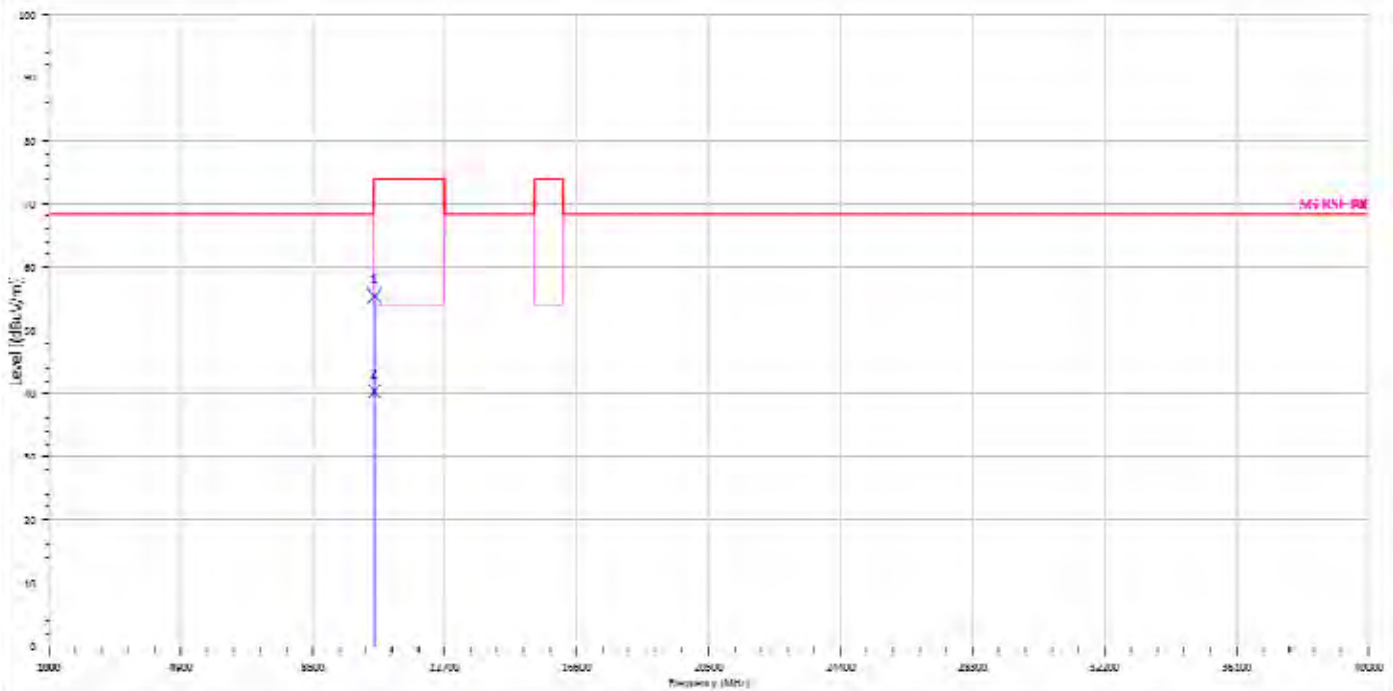
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Operation Mode :	802.11n40B2	Test Date :	2018/5/8
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
10620.00	H	Peak	45.29	10.11	55.40	74	-18.60
10620.00	H	Average	30.26	10.11	40.37	54	-13.63

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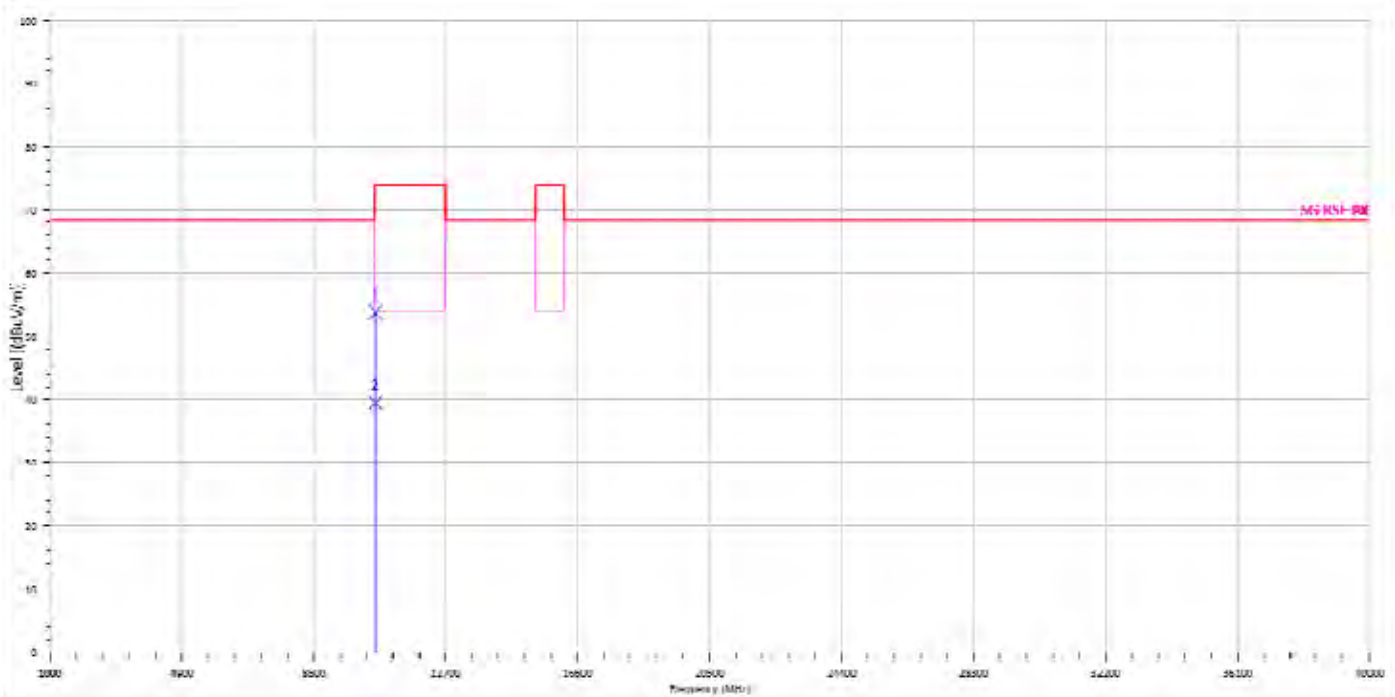
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Operation Mode :	802.11n40B2	Test Date :	2018/5/8
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
10620.00	H	Peak	43.69	10.11	53.80	74	-20.20
10620.00	H	Average	29.38	10.11	39.49	54	-14.51

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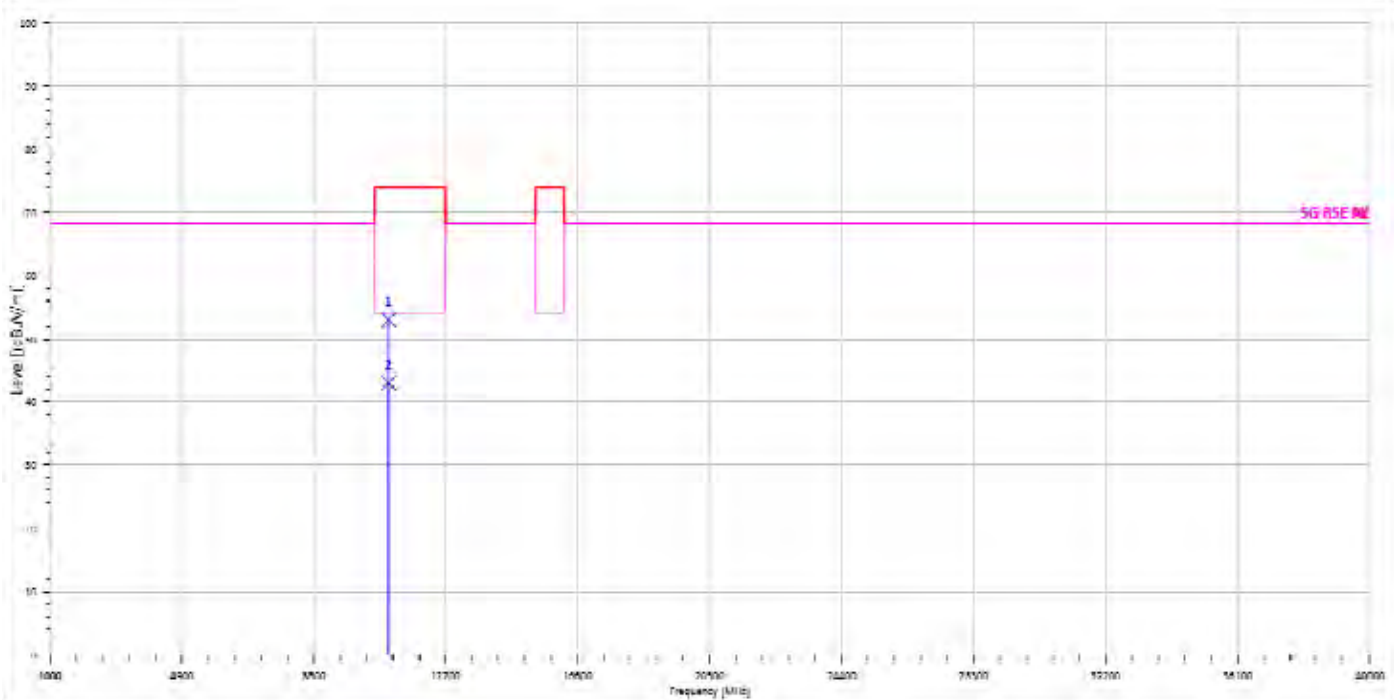
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Mode :	802.11n40B3	Test Date :	2018/5/8
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	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
11020.00	H	Peak	41.39	11.60	52.98	74	-21.02
11020.00	H	Average	31.35	11.60	42.95	54	-11.05

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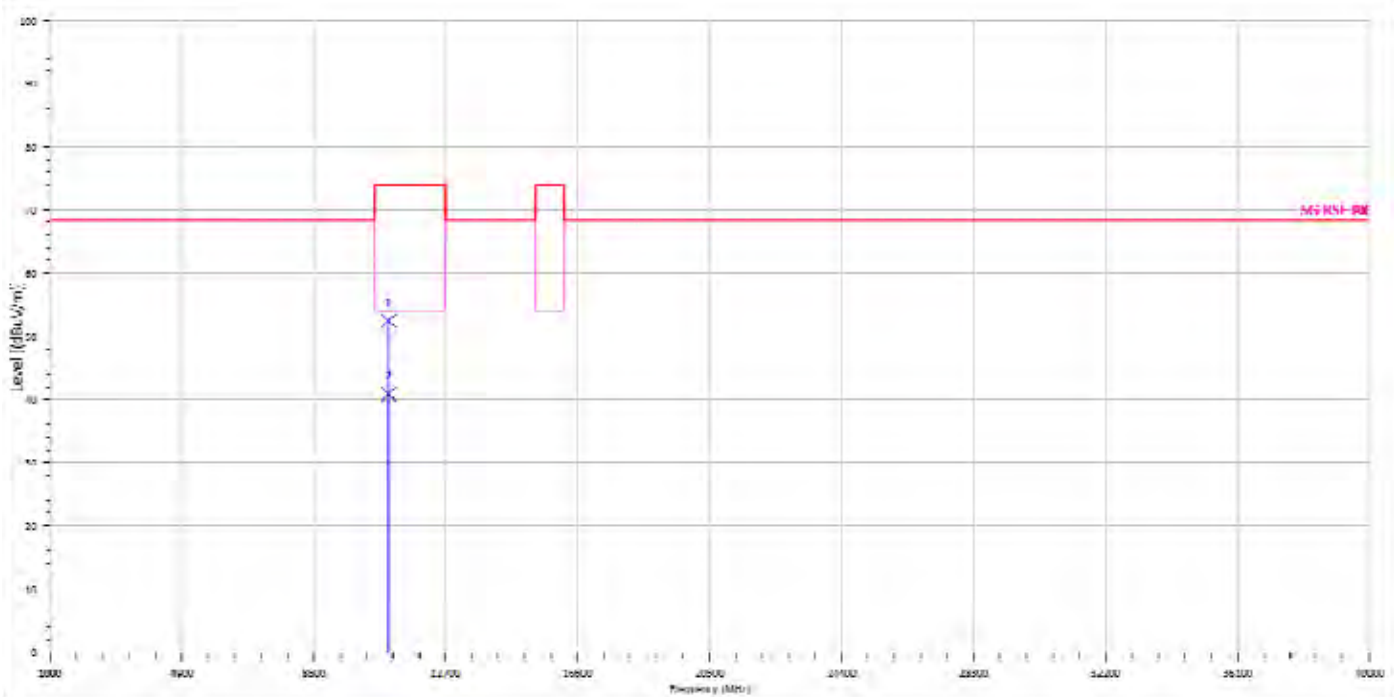
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Operation Mode :	802.11n40B3	Test Date :	2018/5/8
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
11020.00	H	Peak	40.88	11.60	52.47	74	-21.53
11020.00	H	Average	29.27	11.60	40.87	54	-13.14

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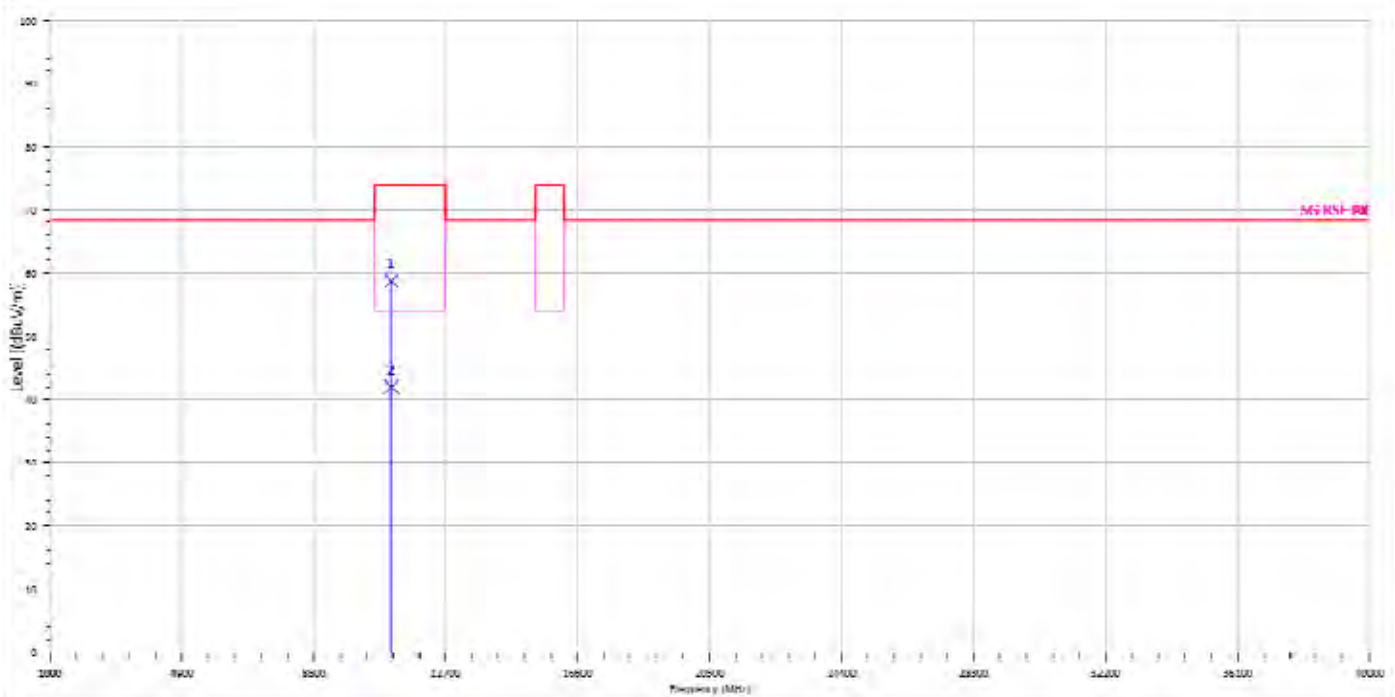
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Operation Mode :	802.11n40B3	Test Date :	2018/5/8
Fundamental Frequency :	5550 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
11100.00	H	Peak	47.58	11.15	58.73	74	-15.27
11100.00	H	Average	30.80	11.15	41.95	54	-12.06

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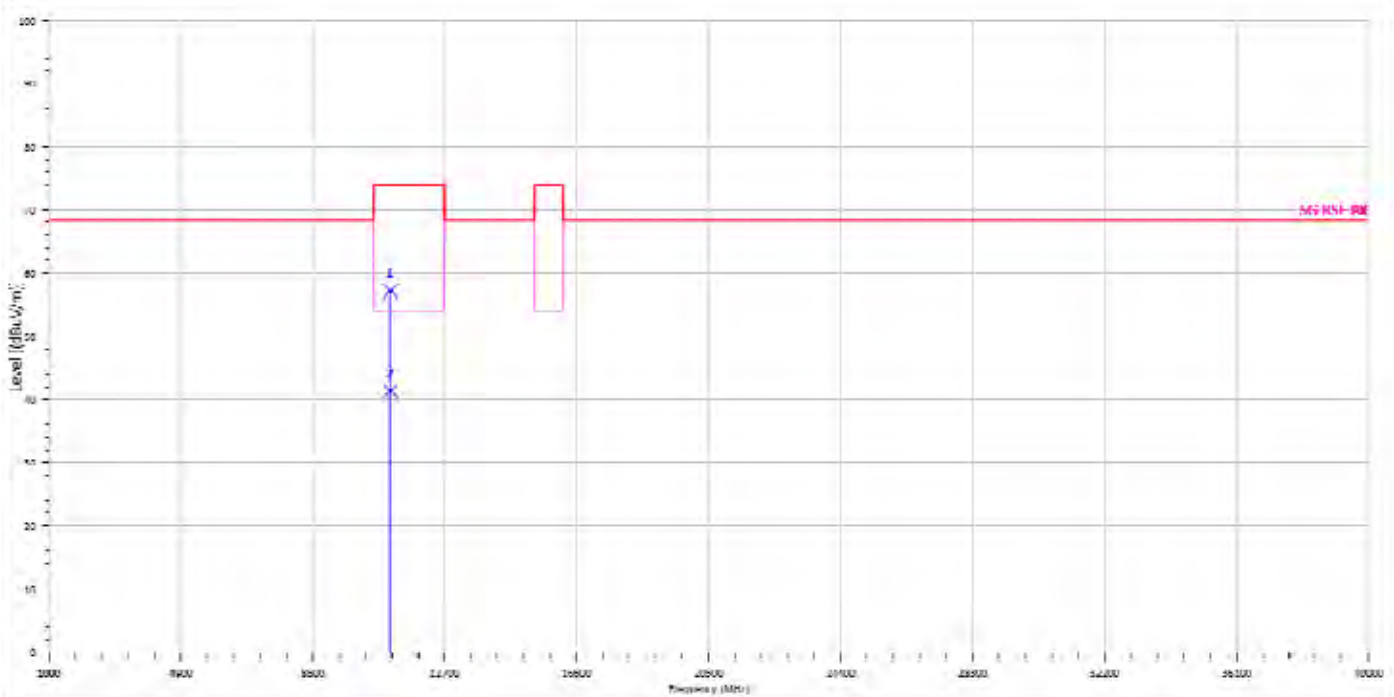
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Operation Mode : 802.11n40B3 Test Date : 2018/5/8
 Fundamental Frequency : 5550 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
11100.00	H	Peak	46.01	11.15	57.16	74	-16.84
11100.00	H	Average	30.18	11.15	41.33	54	-12.67

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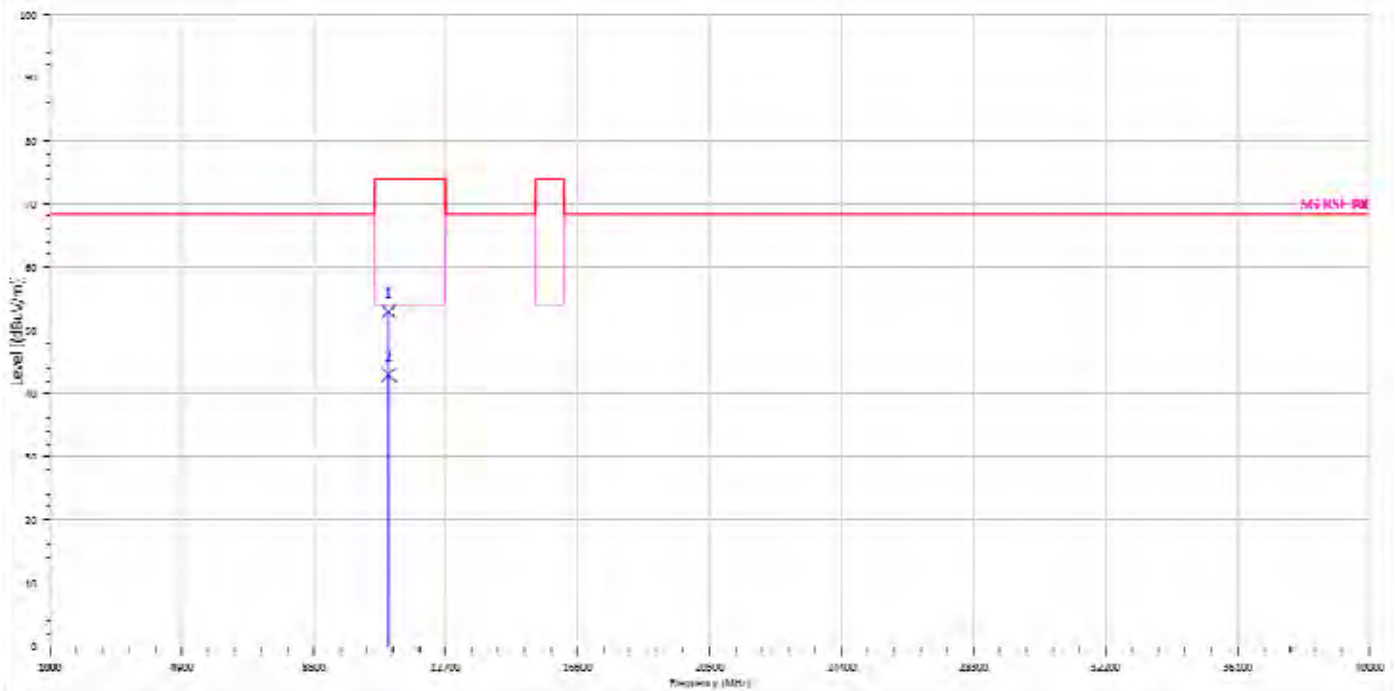
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Operation Mode :	802.11n40B3	Test Date :	2018/5/8
Fundamental Frequency :	5710 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
11420.00	H	Peak	45.28	11.51	56.78	74	-17.22
11420.00	H	Average	32.29	11.51	43.80	54	-10.20

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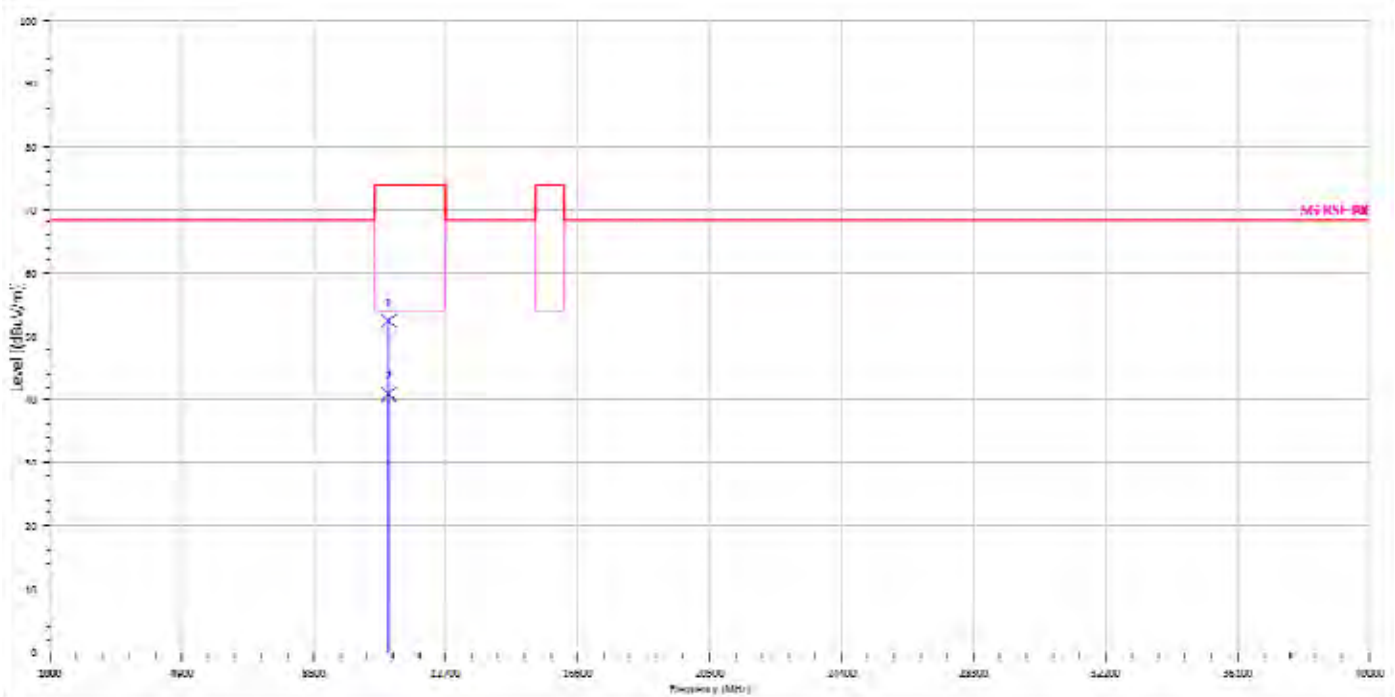
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Operation Mode :	802.11n40B3	Test Date :	2018/5/8
Fundamental Frequency :	5710 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
11420.00	H	Peak	43.53	11.51	55.04	74	-18.97
11420.00	H	Average	31.39	11.51	42.89	54	-11.11

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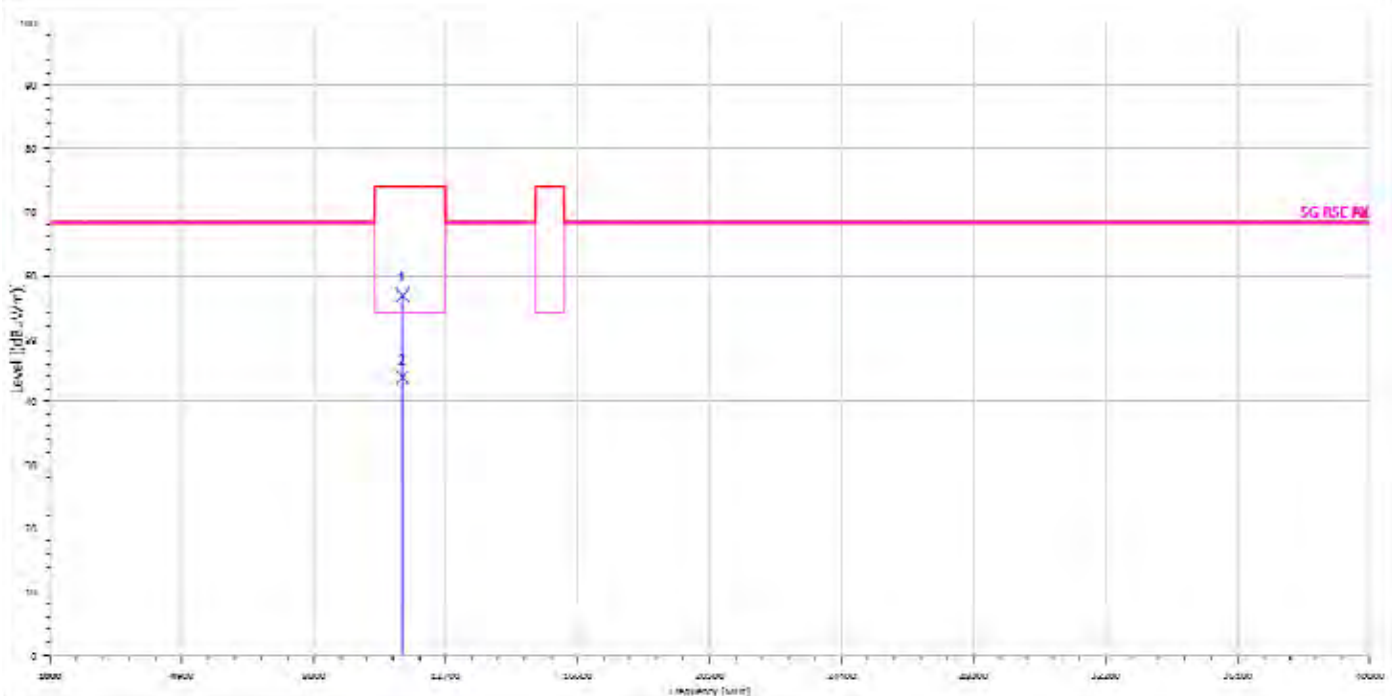
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Operation Mode : 802.11n40B3 Test Date : 2018/5/8
 Fundamental Frequency : 5710 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
11420.00	H	Peak	45.28	11.51	56.78	74	-17.22
11420.00	H	Average	32.29	11.51	43.80	54	-10.20

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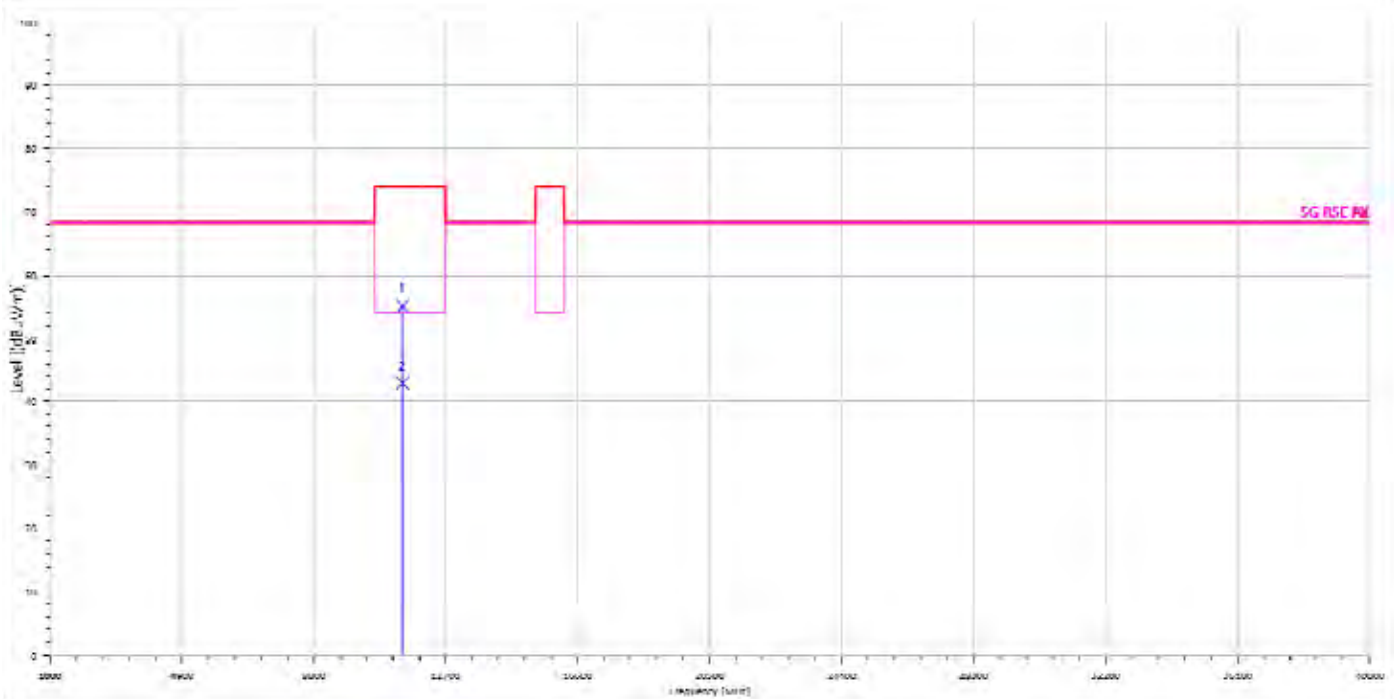
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Operation Mode : 802.11n40B3 Test Date : 2018/5/8
 Fundamental Frequency : 5710 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
11420.00	H	Peak	43.53	11.51	55.04	74	-18.97
11420.00	H	Average	31.39	11.51	42.89	54	-11.11

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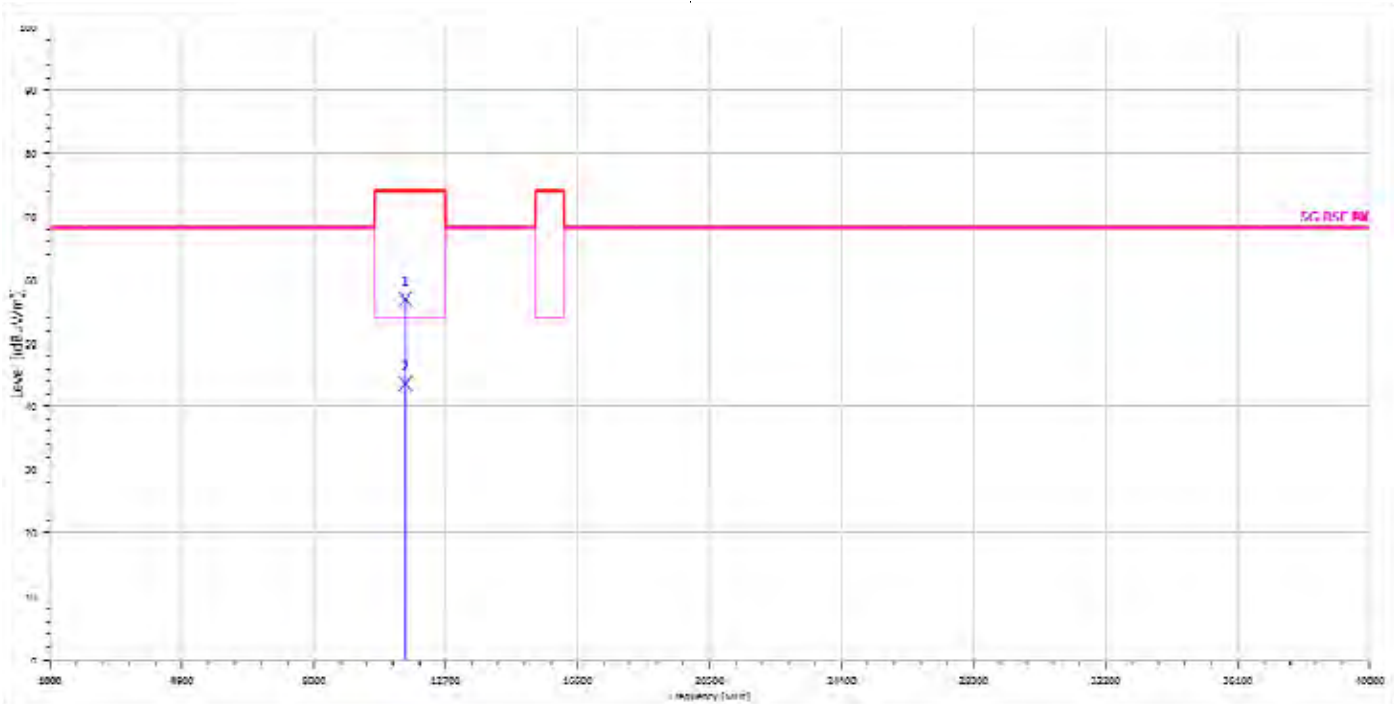
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode :	802.11n40B4	Test Date :	2018/5/8
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	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
11510.00	H	Peak	45.83	11.12	56.95	74	-17.05
11510.00	H	Average	32.47	11.12	43.59	54	-10.41

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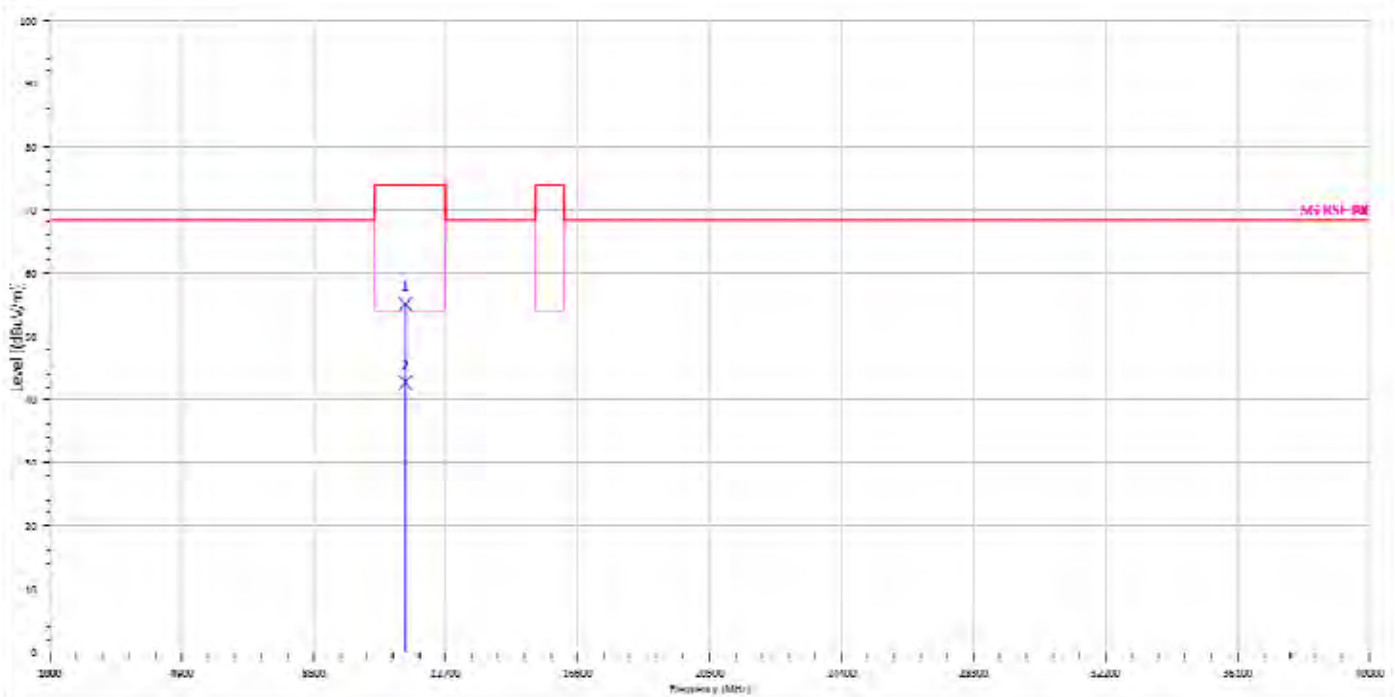
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Operation Mode :	802.11n40B4	Test Date :	2018/5/8
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
11510.00	H	Peak	43.97	11.12	55.09	74	-18.91
11510.00	H	Average	31.57	11.12	42.69	54	-11.31

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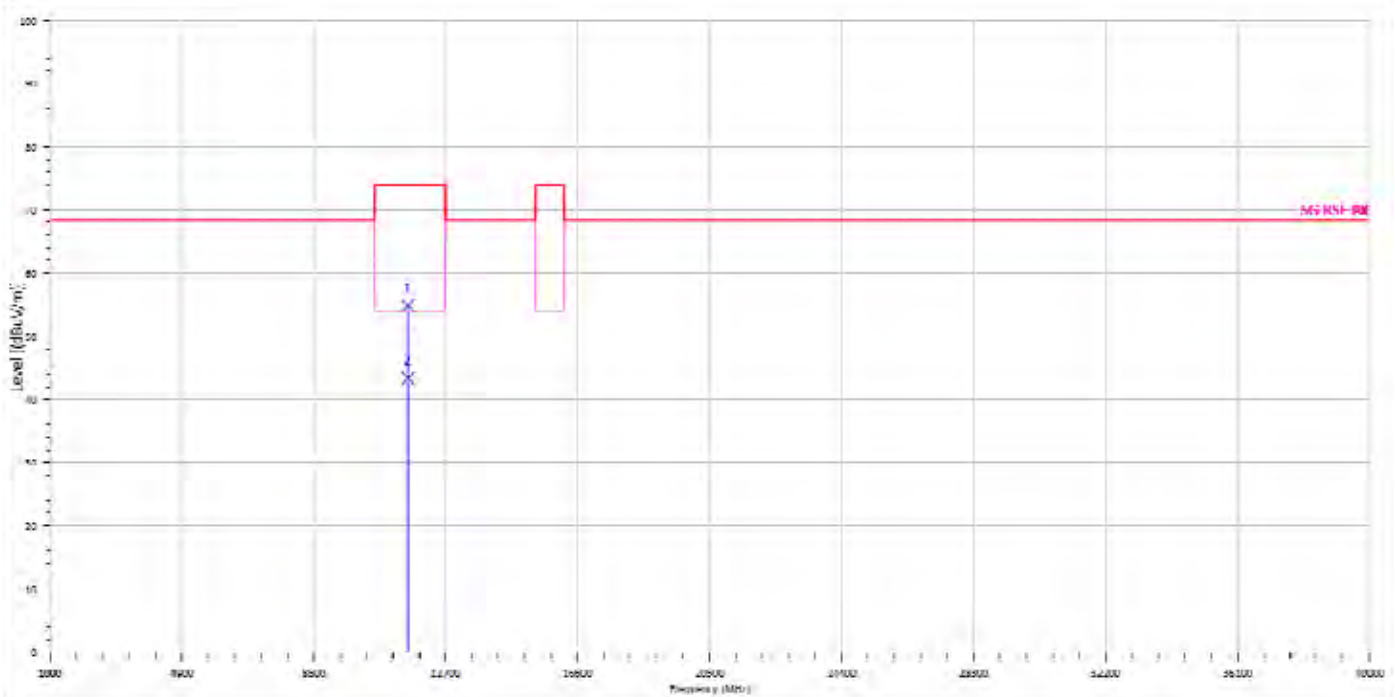
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Operation Mode :	802.11n40B4	Test Date :	2018/5/8
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
11590.00	H	Peak	43.87	11.05	54.91	74	-19.09
11590.00	H	Average	32.32	11.05	43.36	54	-10.64

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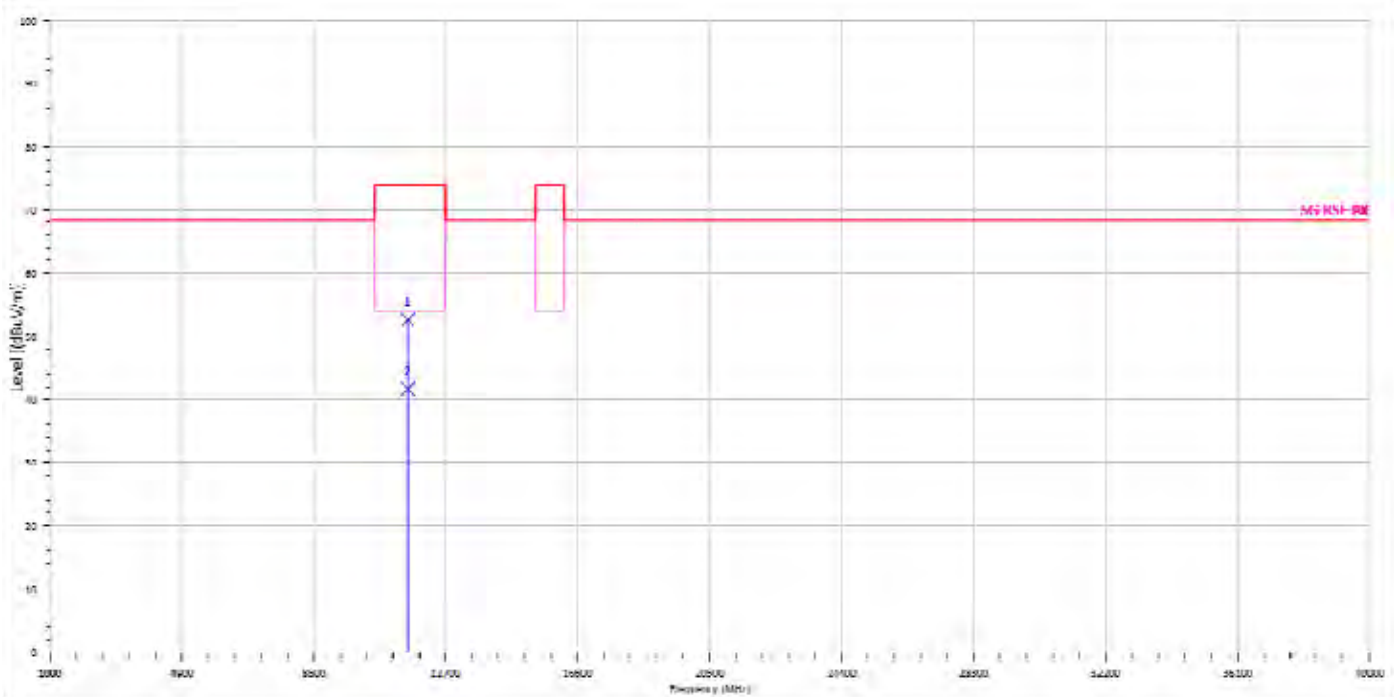
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Operation Mode :	802.11n40B4	Test Date :	2018/5/8
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
11590.00	H	Peak	41.58	11.05	52.62	74	-21.38
11590.00	H	Average	30.59	11.05	41.63	54	-12.37

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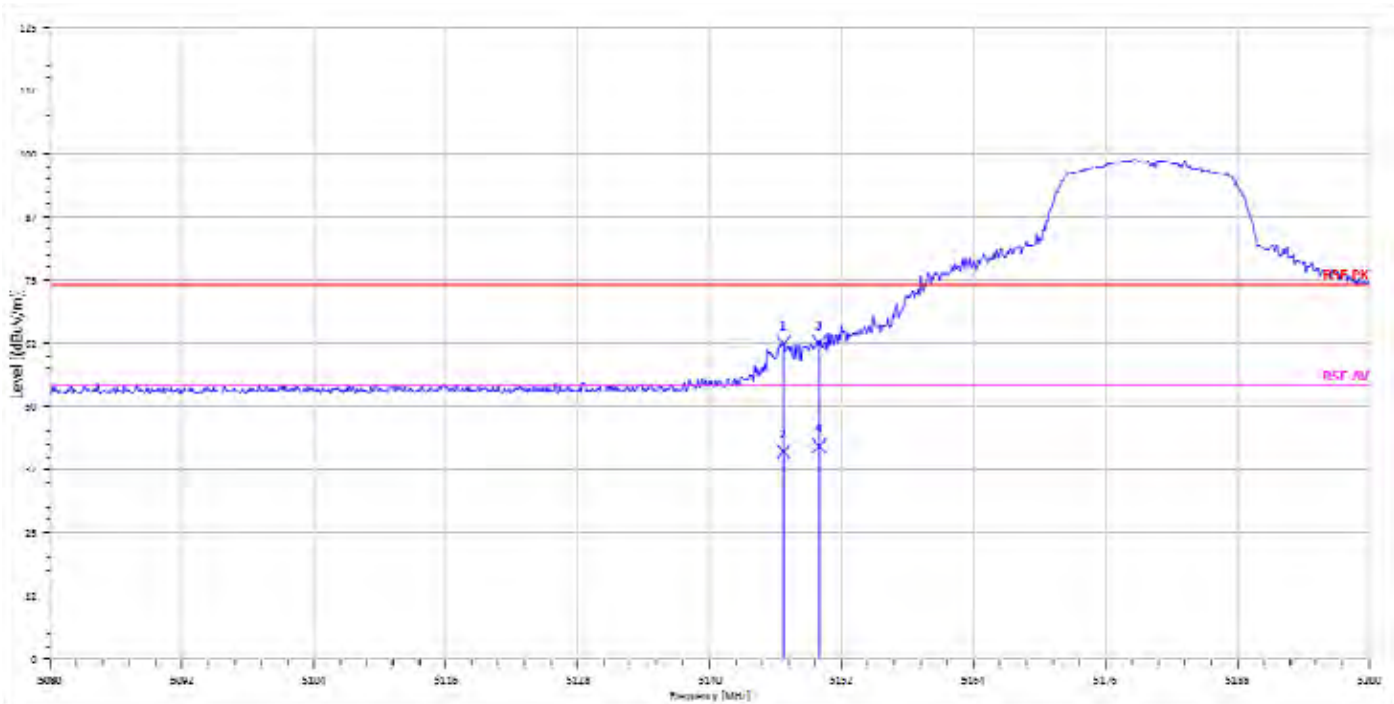
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**Band edge falling to restricted band
802.11a mode**

Operation Mode :	802.11aB1	Test Date :	2018/5/7
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	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
5146.72	S	Peak	62.56	-0.17	62.39	74	-11.61
5146.72	S	Average	41.19	-0.17	41.02	54	-12.98
5150.00	E	Peak	62.66	-0.17	62.49	74	-11.51
5150.00	E	Average	42.31	-0.17	42.14	54	-11.86

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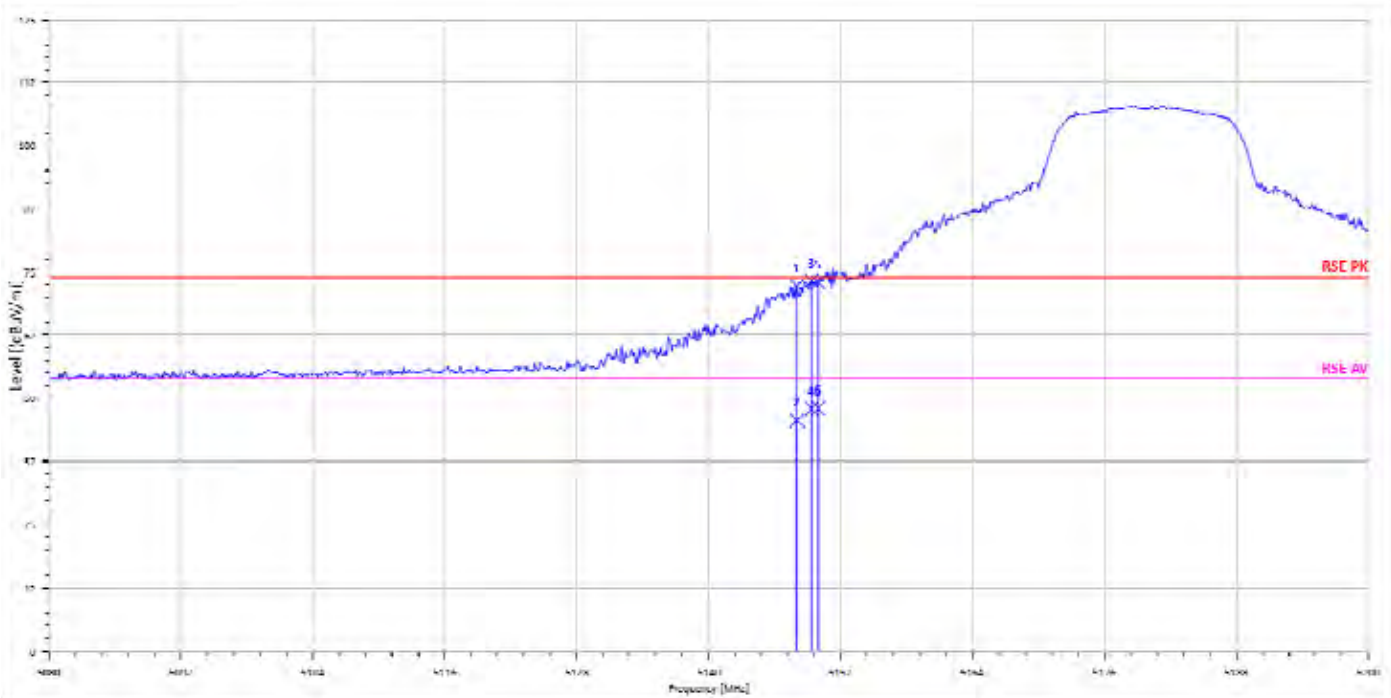
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Operation Mode : 802.11aB1 Test Date : 2018/5/7
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
5148.04	S	Peak	72.45	-0.17	72.28	74	-1.72
5148.04	S	Average	45.87	-0.17	45.70	54	-8.30
5149.36	S	Peak	73.40	-0.17	73.23	74	-0.77
5149.36	S	Average	48.10	-0.17	47.93	54	-6.07
5150.00	E	Peak	73.14	-0.17	72.97	74	-1.03
5150.00	E	Average	48.20	-0.17	48.03	54	-5.97

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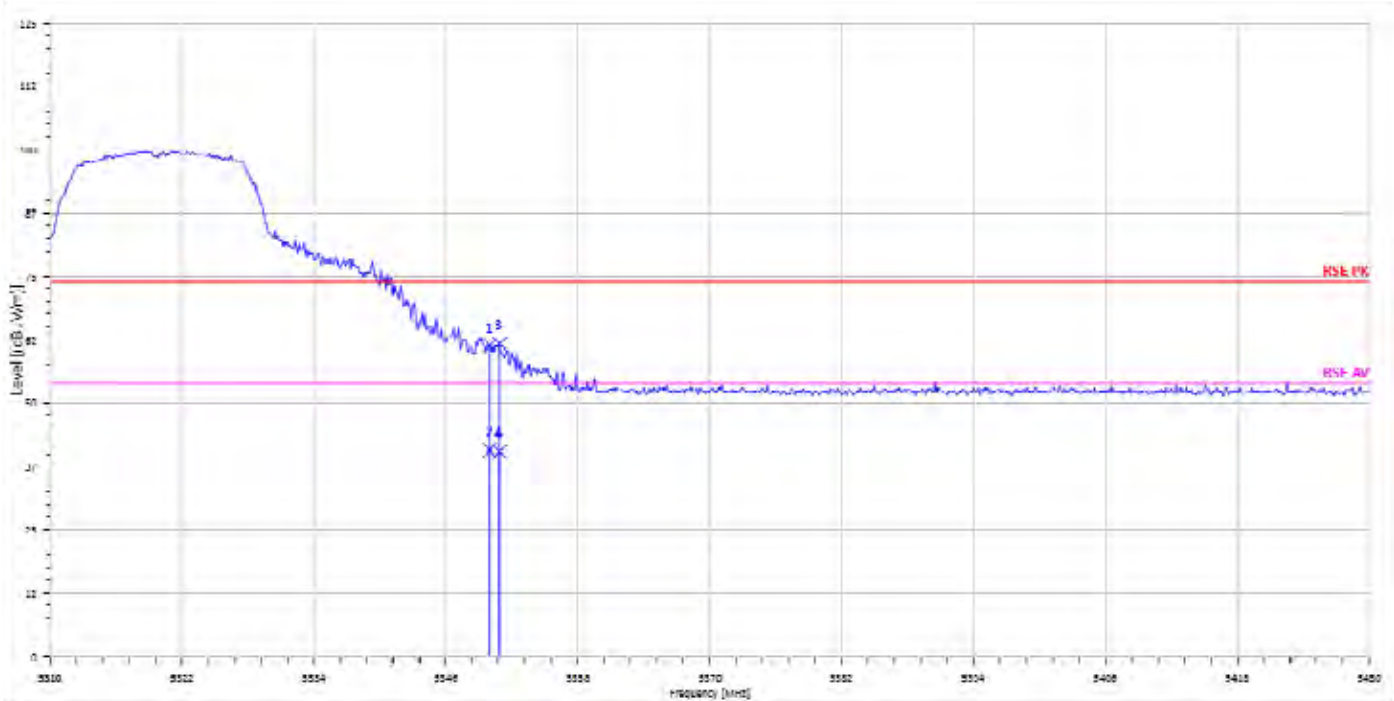
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Operation Mode :	802.11aB2	Test Date :	2018/5/7
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
5350.00	E	Peak	61.48	-0.15	61.33	74	-12.67
5350.00	E	Average	40.82	-0.15	40.66	54	-13.34
5350.92	S	Peak	61.83	-0.15	61.68	74	-12.32
5350.92	S	Average	40.59	-0.15	40.43	54	-13.57

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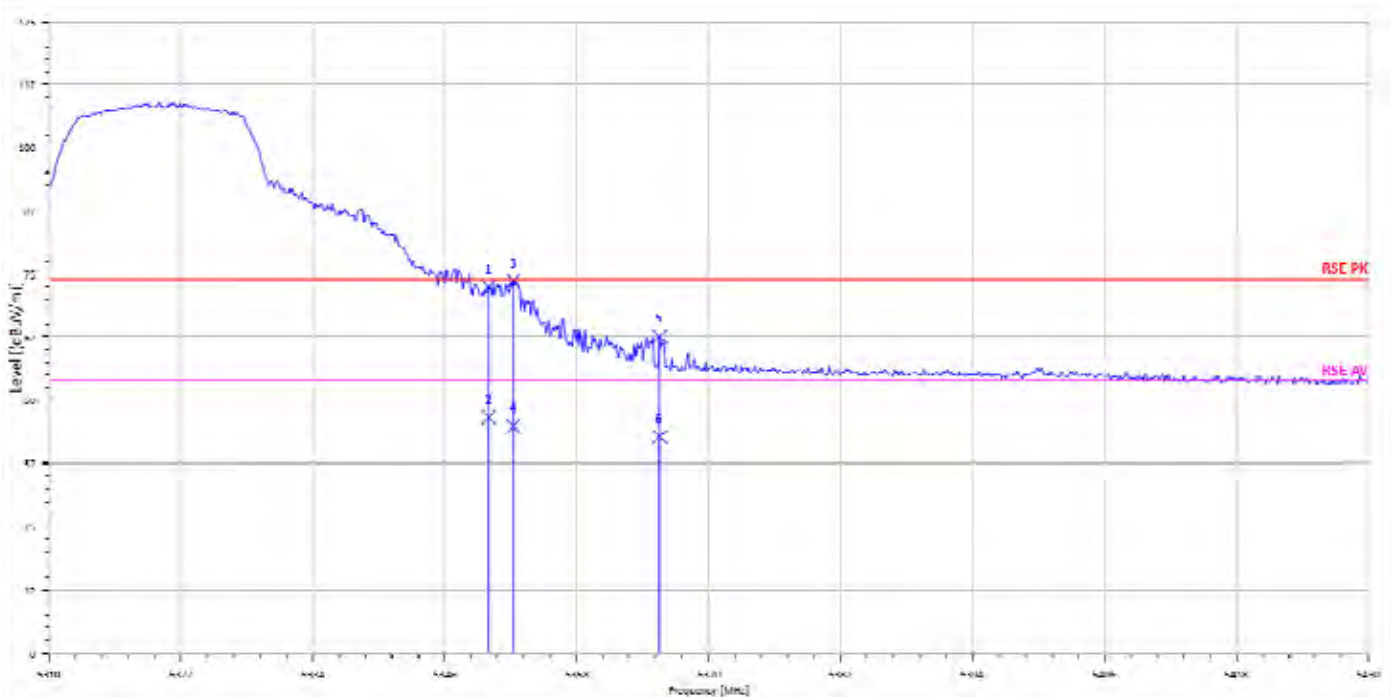
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Operation Mode : 802.11aB2 Test Date : 2018/5/7
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
5350.00	E	Peak	72.55	-0.15	72.40	74	-1.60
5350.00	E	Average	46.83	-0.15	46.67	54	-7.33
5352.24	S	Peak	73.80	-0.15	73.65	74	-0.35
5352.24	S	Average	45.04	-0.15	44.88	54	-9.12
5365.56	S	Peak	62.79	-0.13	62.66	74	-11.34
5365.56	S	Average	42.96	-0.13	42.83	54	-11.17

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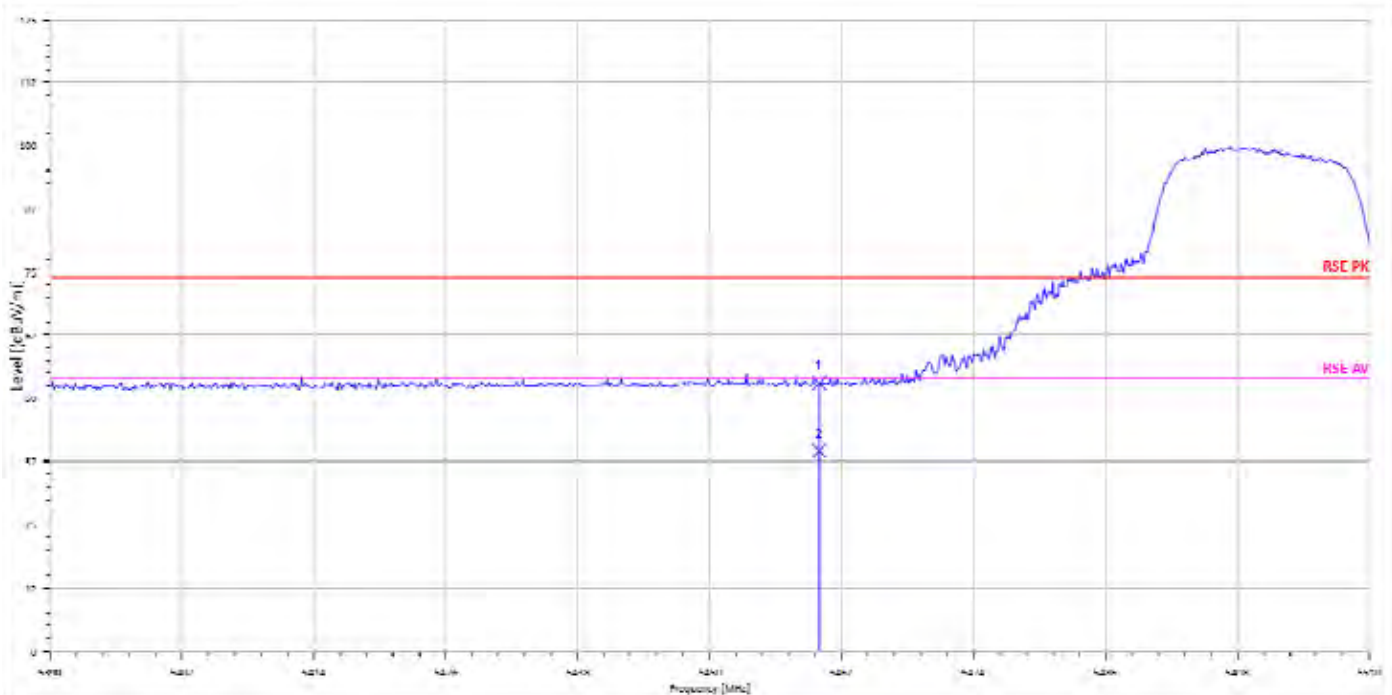
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Operation Mode : 802.11aB3 Test Date : 2018/5/7
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
5460.00	E	Peak	52.92	0.06	52.98	74	-21.02
5460.00	E	Average	39.57	0.06	39.63	54	-14.37

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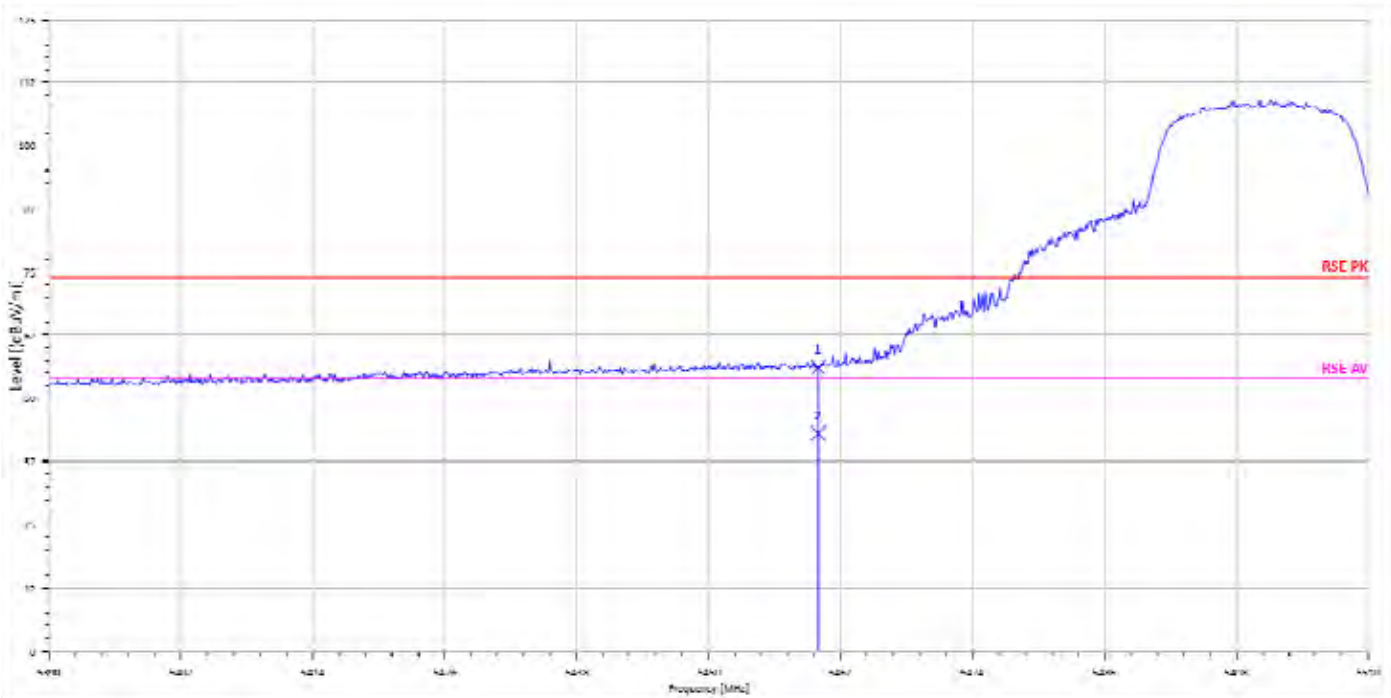
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Operation Mode : 802.11aB3 Test Date : 2018/5/7
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
5460.00	E	Peak	56.03	0.06	56.09	74	-17.91
5460.00	E	Average	43.01	0.06	43.07	54	-10.93

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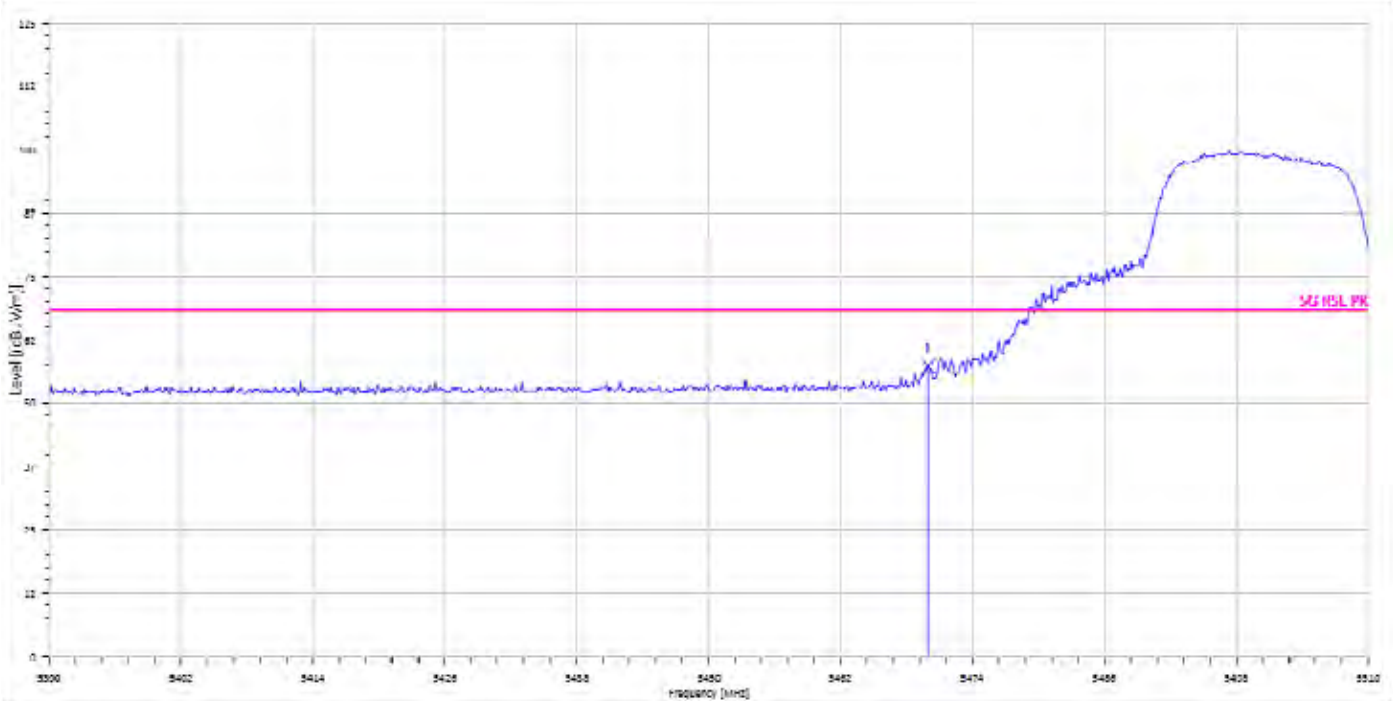
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Operation Mode :	802.11aB3	Test Date :	2018/5/7
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5470.00	E	Peak	57.11	0.08	57.19	68.3	-11.11

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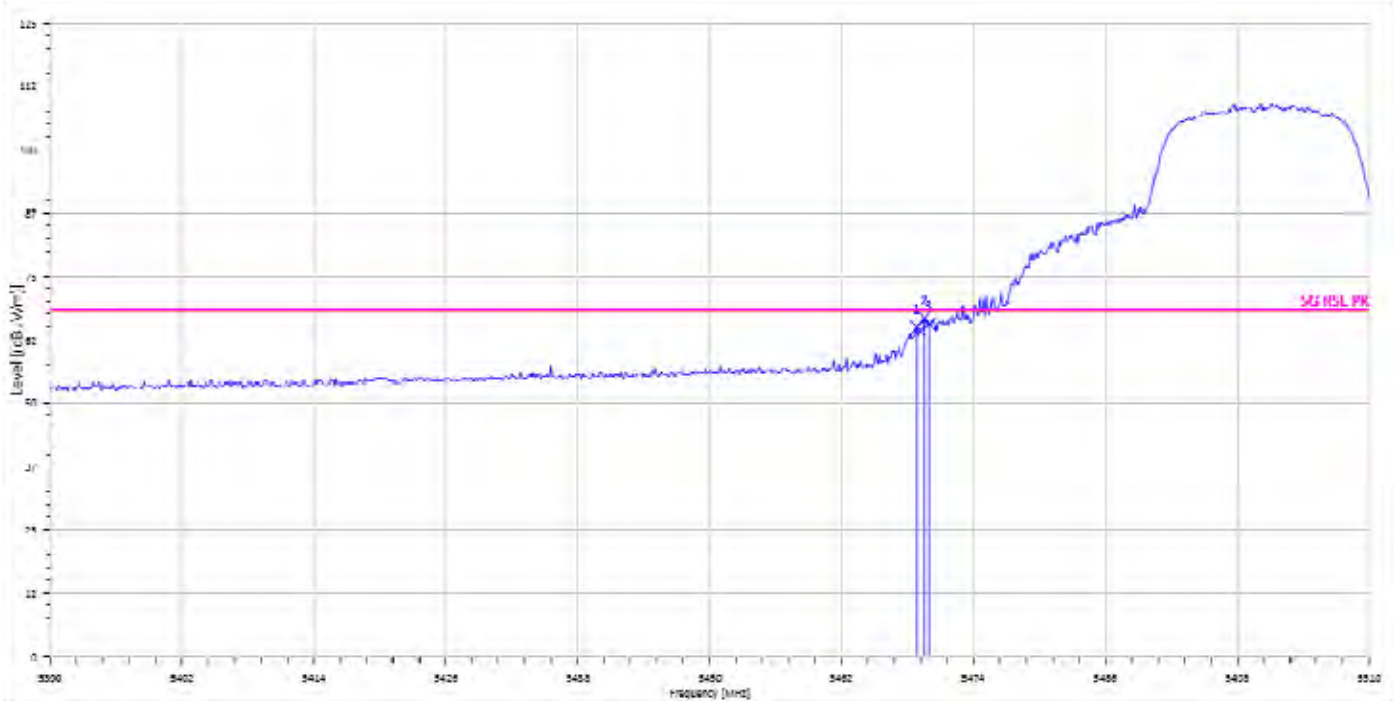
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Operation Mode :	802.11aB3	Test Date :	2018/5/7
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5468.84	S	Peak	64.83	0.08	64.91	68.3	-3.39
5469.56	S	Peak	66.72	0.08	66.80	68.3	-1.50
5470.00	E	Peak	65.49	0.08	65.57	68.3	-2.73

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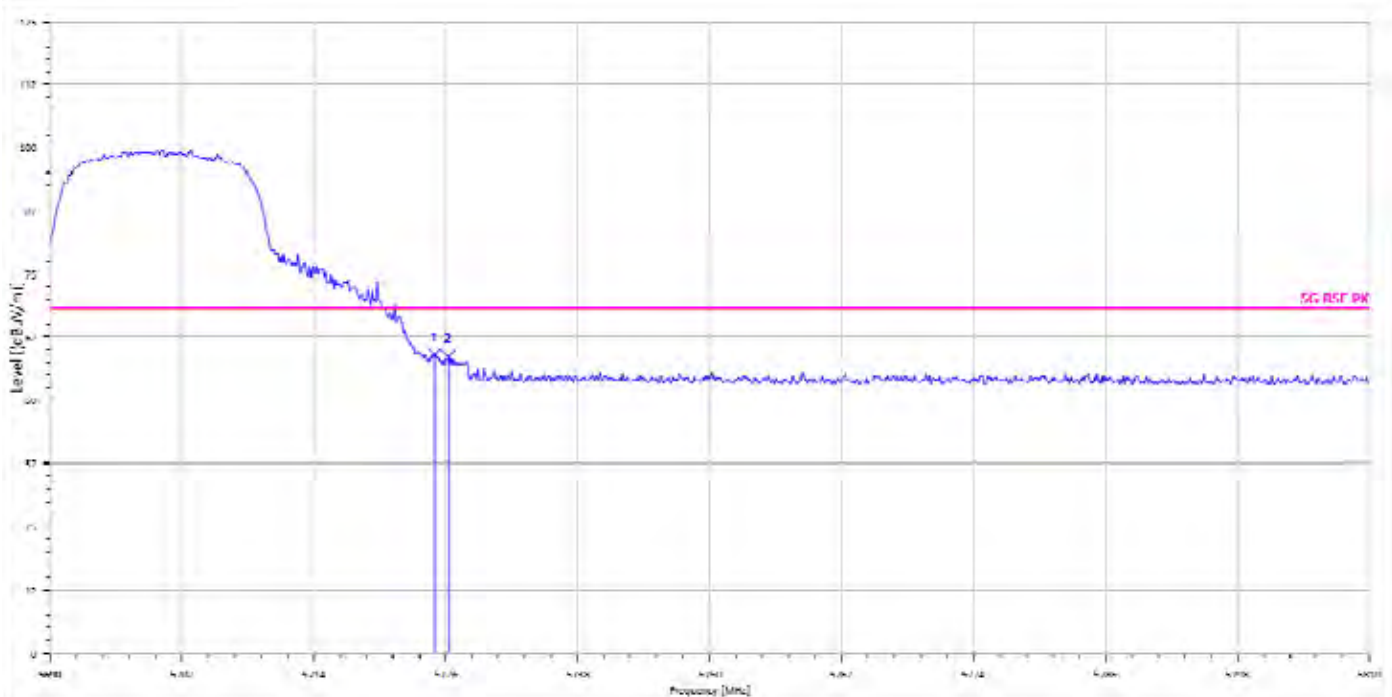
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Operation Mode :	802.11aB3	Test Date :	2018/5/7
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
5725.00	E	Peak	58.33	0.69	59.01	68.3	-9.29
5726.24	S	Peak	57.94	0.69	58.64	68.3	-9.66

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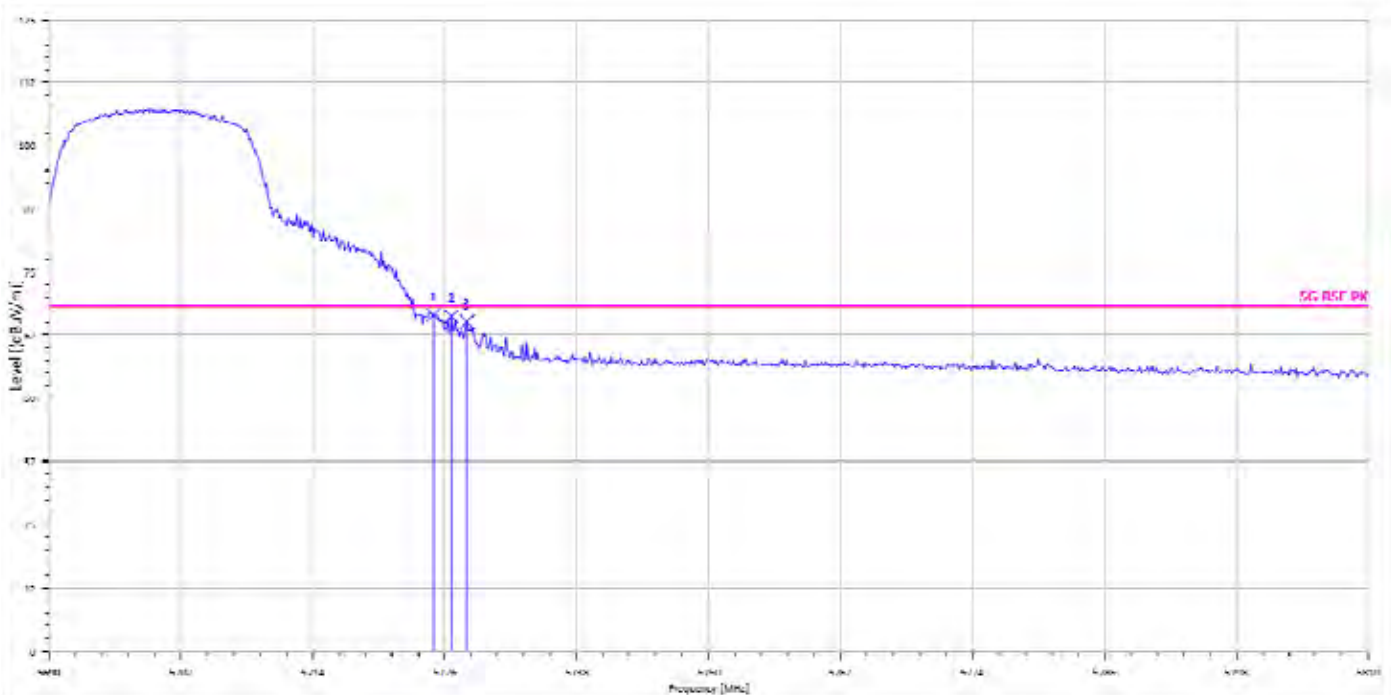
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Operation Mode :	802.11aB3	Test Date :	2018/5/7
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5725.00	E	Peak	65.84	0.69	66.52	68.3	-1.78
5726.60	S	Peak	65.52	0.69	66.21	68.3	-2.09
5728.04	S	Peak	64.43	0.70	65.13	68.3	-3.17

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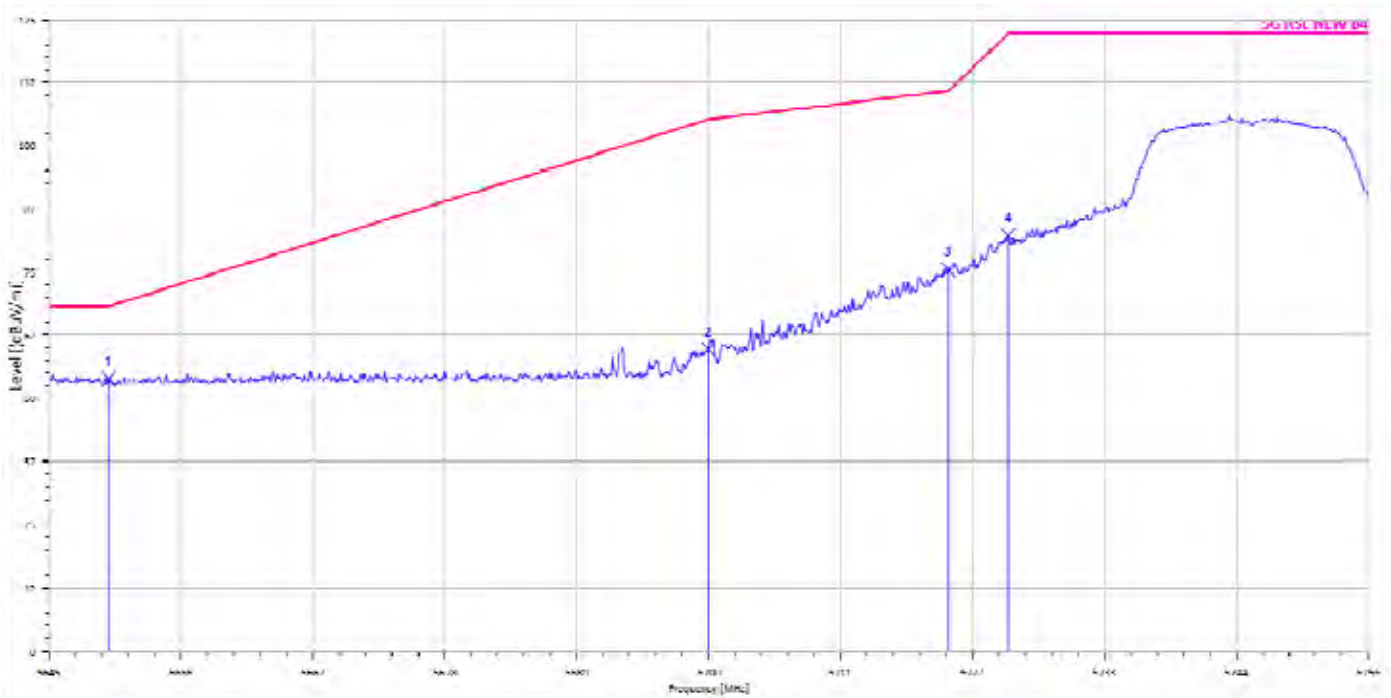
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Operation Mode : 802.11aB4 Test Date : 2018/5/7
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
5650.00	S	Peak	53.09	0.63	53.72	68.23	-14.51
5700.00	S	Peak	59.18	0.56	59.74	105.23	-45.49
5720.00	S	Peak	74.81	0.66	75.47	110.83	-35.36
5725.00	E	Peak	81.51	0.69	82.20	122.23	-40.03

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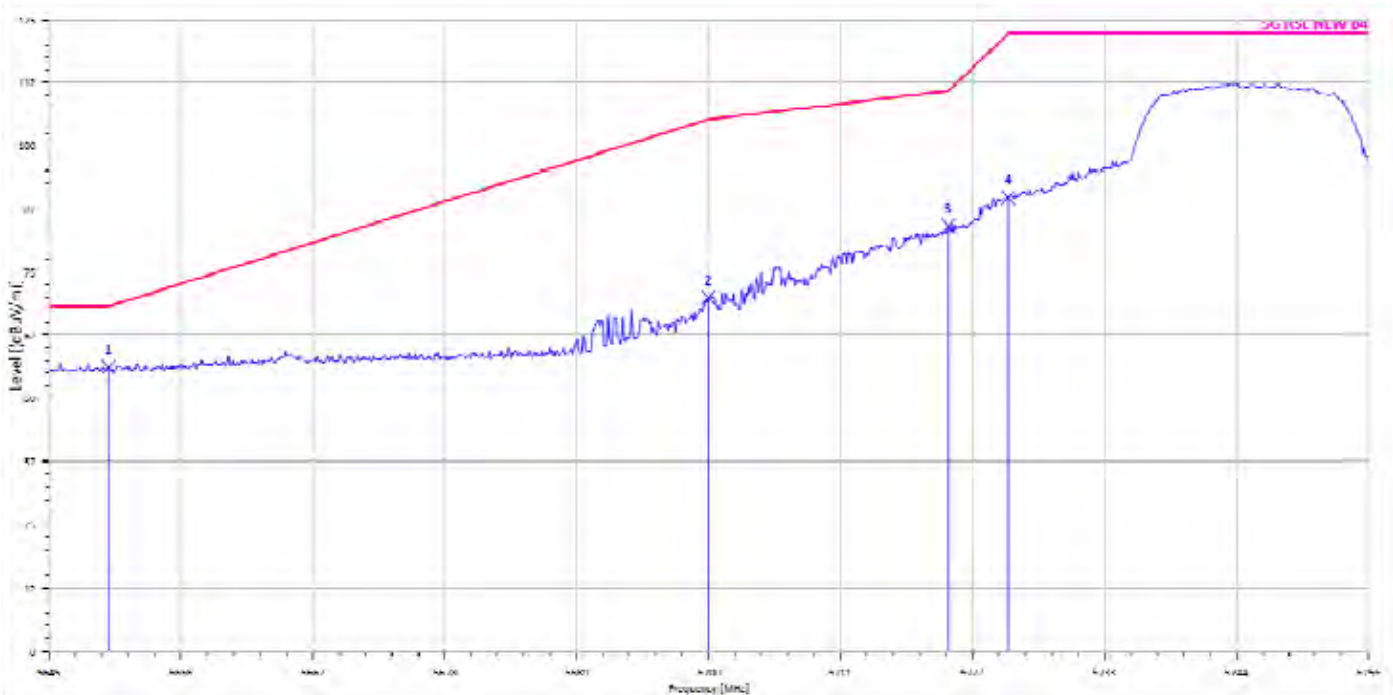
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Operation Mode : 802.11aB4 Test Date : 2018/5/7
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
5650.00	S	Peak	55.49	0.63	56.12	68.23	-12.11
5700.00	S	Peak	69.37	0.56	69.93	105.23	-35.30
5720.00	S	Peak	83.41	0.66	84.07	110.83	-26.76
5725.00	E	Peak	89.05	0.69	89.73	122.23	-32.50

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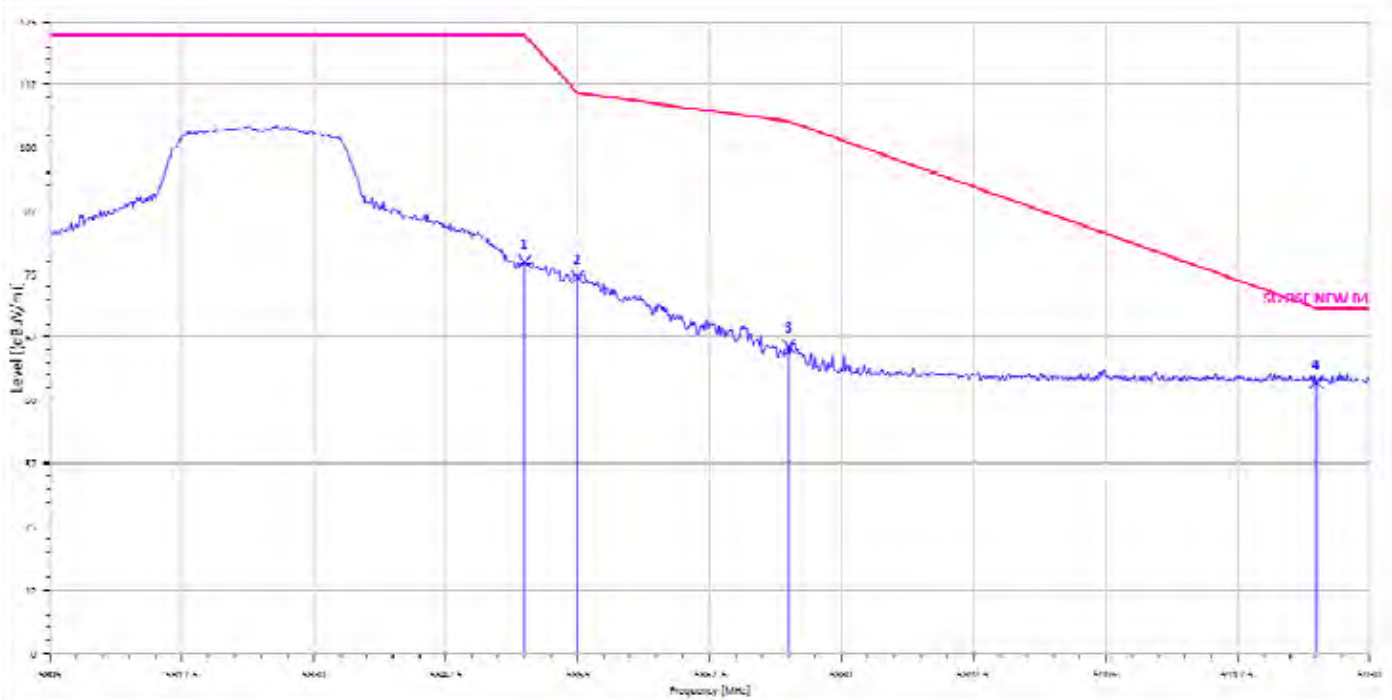
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Operation Mode : 802.11aB4 Test Date : 2018/5/7
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
5850.00	E	Peak	76.45	1.01	77.46	122.23	-44.77
5855.00	S	Peak	73.37	1.01	74.37	110.83	-36.46
5875.00	S	Peak	59.76	0.99	60.75	105.23	-44.48
5925.00	S	Peak	52.57	1.04	53.61	68.23	-14.62

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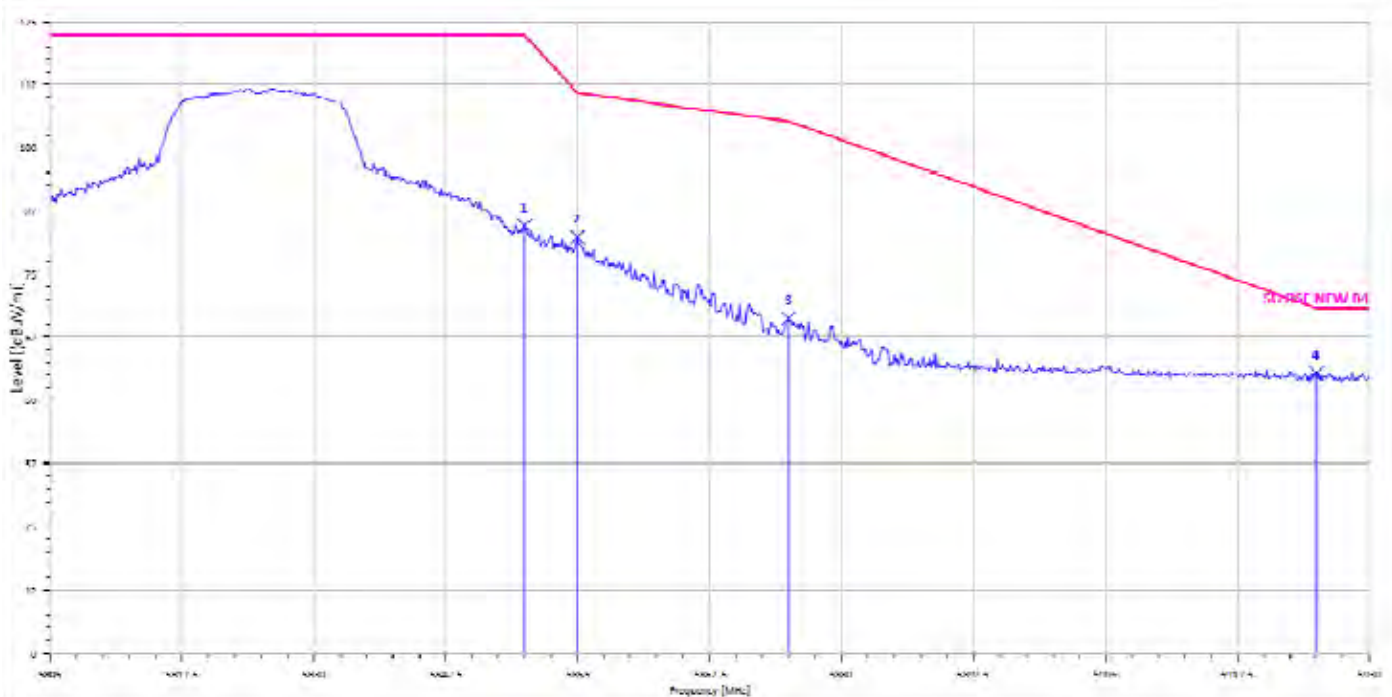
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Operation Mode :	802.11aB4	Test Date :	2018/5/7
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5850.00	E	Peak	83.51	1.01	84.52	122.23	-37.71
5855.00	S	Peak	81.29	1.01	82.30	110.83	-28.53
5875.00	S	Peak	65.22	0.99	66.21	105.23	-39.02
5925.00	S	Peak	54.39	1.04	55.42	68.23	-12.81

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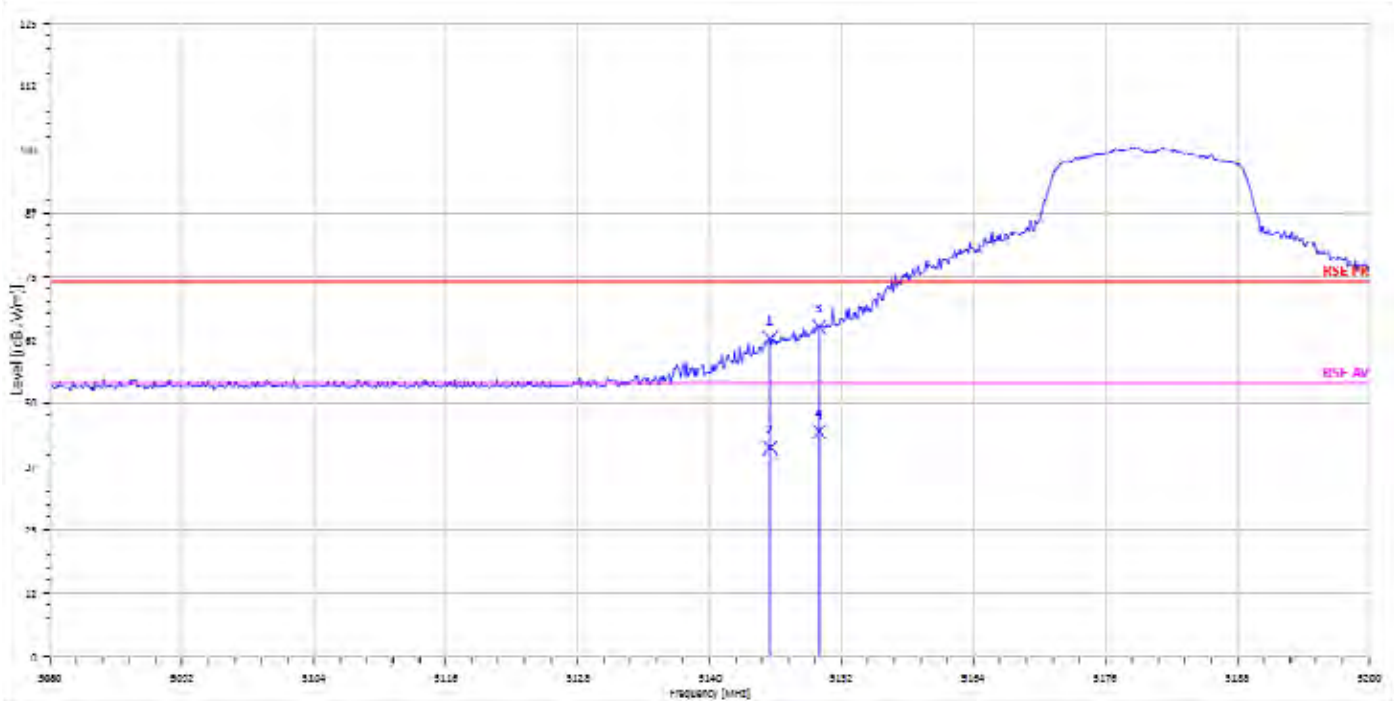
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802.11n20 HT mode

Operation Mode :	802.11n20B1	Test Date :	2018/5/4
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	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
5145.52	S	Peak	62.99	-0.17	62.82	74	-11.18
5145.52	S	Average	41.38	-0.17	41.21	54	-12.79
5150.00	E	Peak	65.19	-0.17	65.02	74	-8.98
5150.00	E	Average	44.51	-0.17	44.34	54	-9.66

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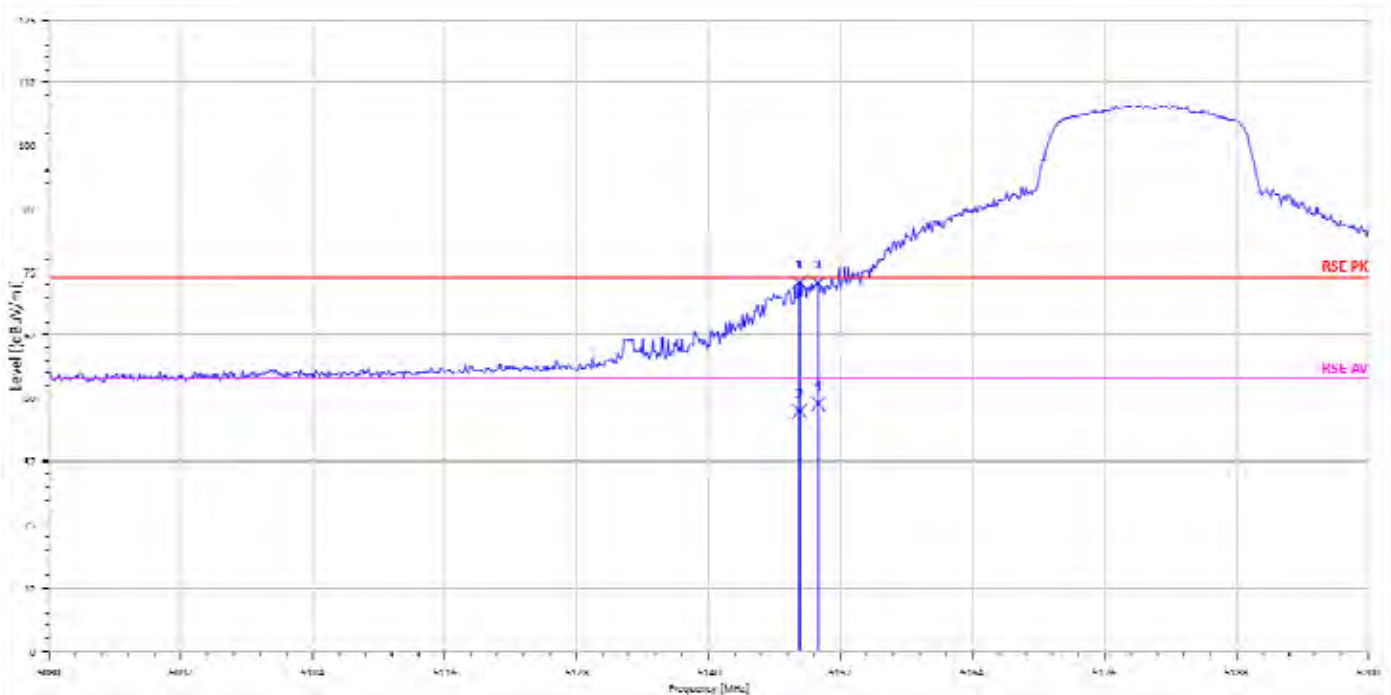
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Operation Mode :	802.11n20B1	Test Date :	2018/5/4
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5148.28	S	Peak	73.14	-0.17	72.97	74	-1.03
5148.28	S	Average	47.63	-0.17	47.46	54	-6.54
5150.00	E	Peak	72.97	-0.17	72.80	74	-1.20
5150.00	E	Average	49.09	-0.17	48.92	54	-5.08

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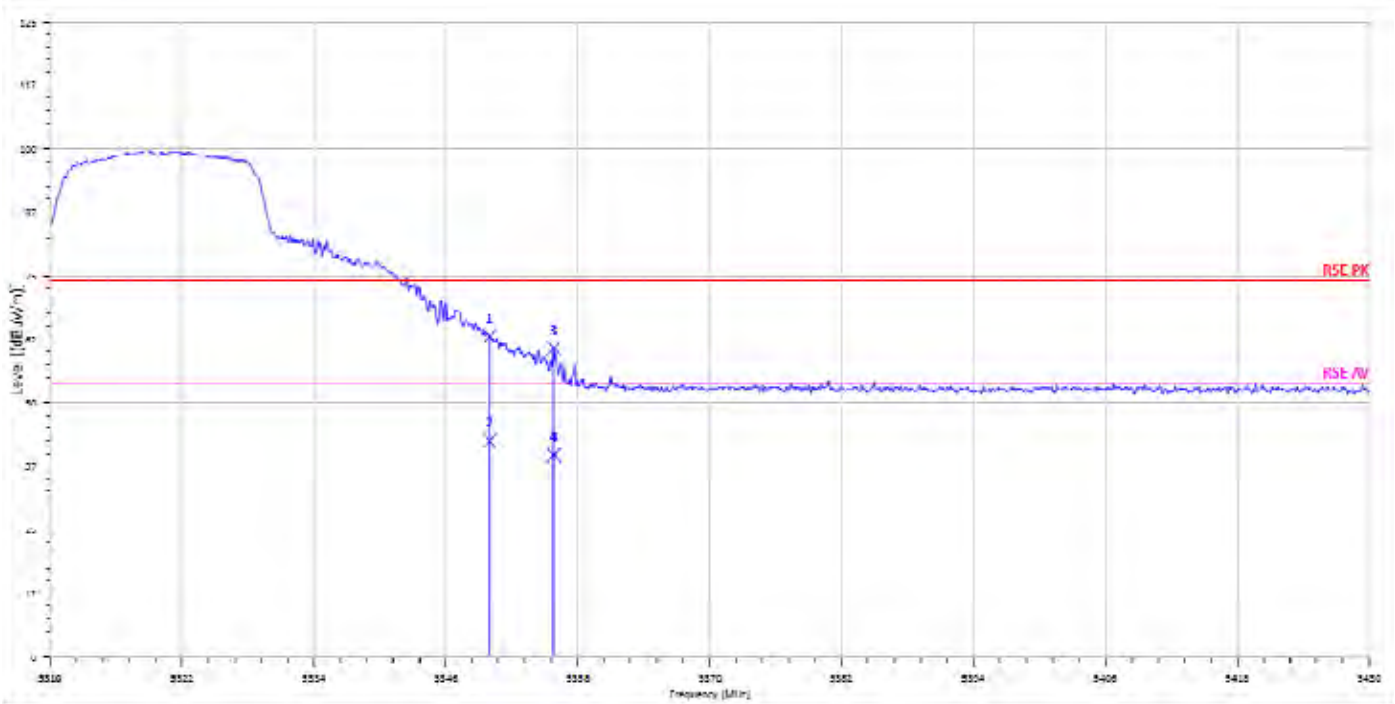
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Operation Mode : 802.11n20B2 Test Date : 2018/5/4
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
5350.00	E	Peak	63.13	-0.15	62.98	74	-11.02
5350.00	E	Average	42.67	-0.15	42.51	54	-11.49
5355.84	S	Peak	60.82	-0.15	60.68	74	-13.32
5355.84	S	Average	39.85	-0.15	39.71	54	-14.29

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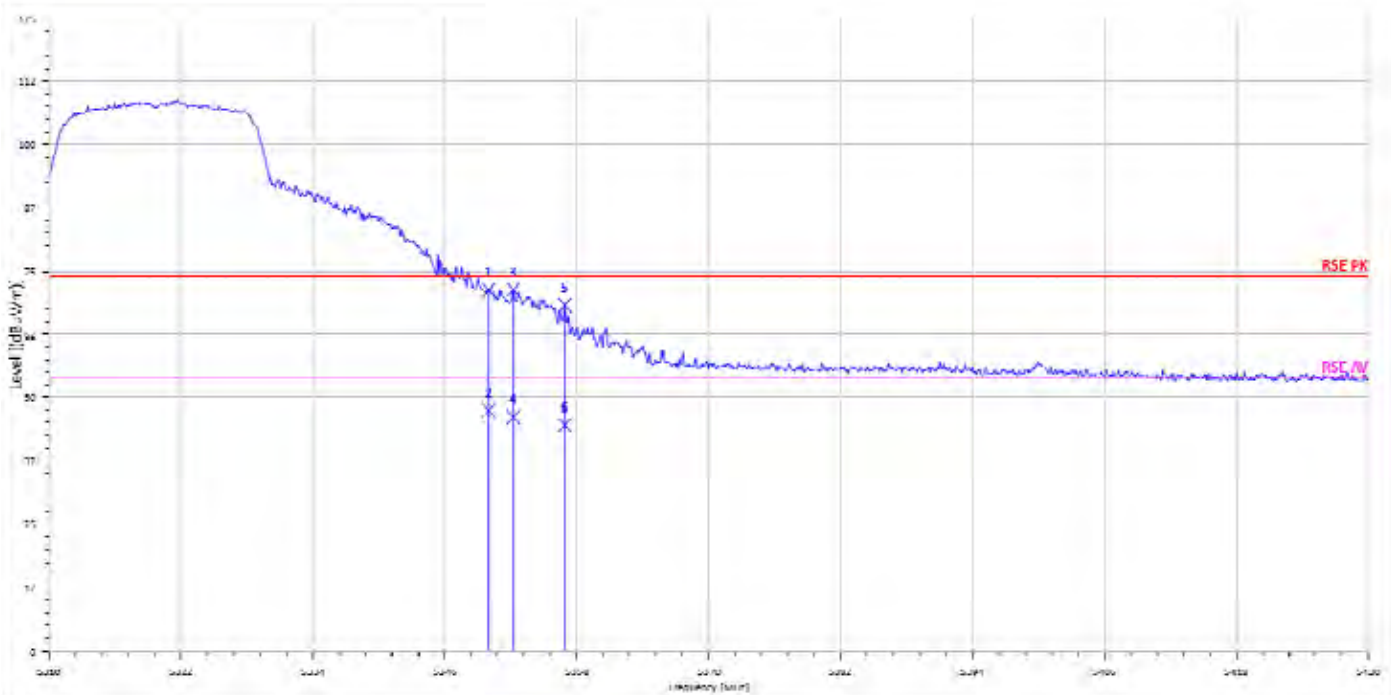
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Operation Mode : 802.11n20B2 Test Date : 2018/5/4
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
5350.00	E	Peak	71.41	-0.15	71.25	74	-2.75
5350.00	E	Average	47.61	-0.15	47.46	54	-6.54
5352.24	S	Peak	71.46	-0.15	71.31	74	-2.69
5352.24	S	Average	46.27	-0.15	46.11	54	-7.89
5356.92	S	Peak	68.37	-0.14	68.22	74	-5.78
5356.92	S	Average	44.72	-0.14	44.57	54	-9.43

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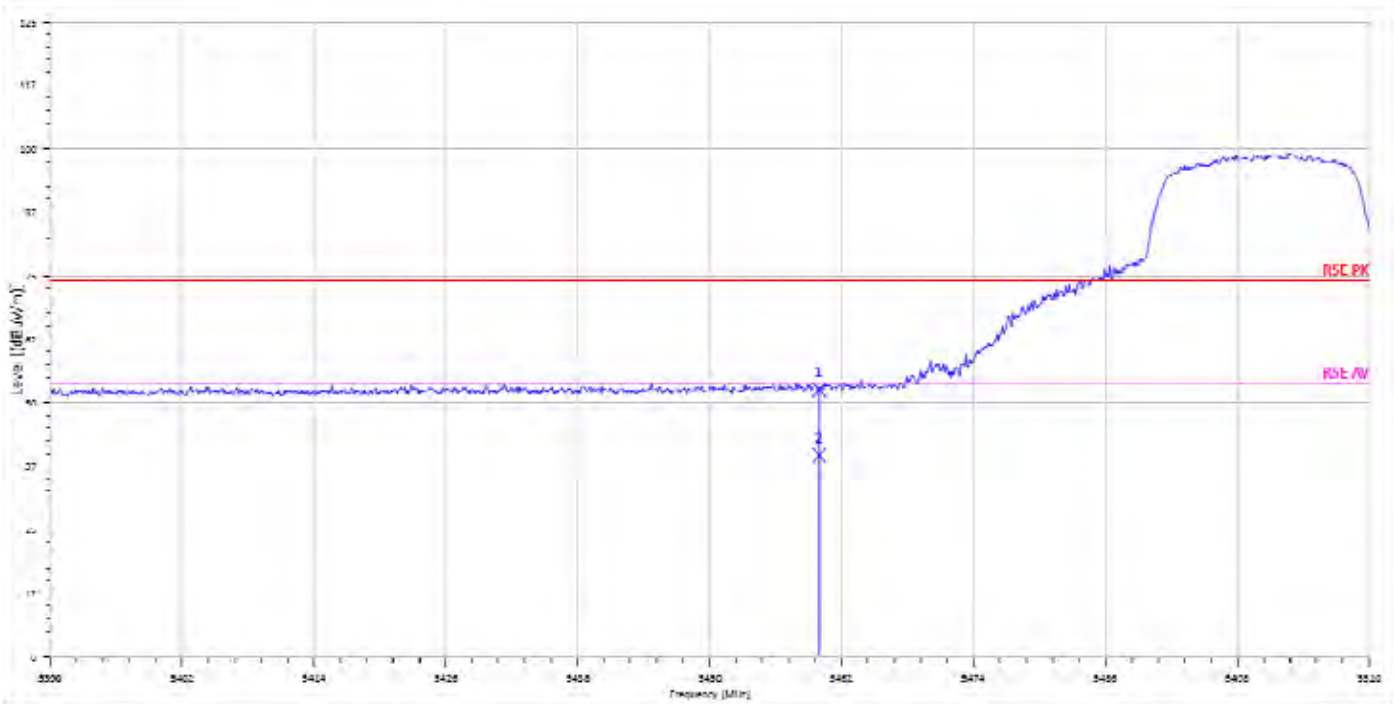
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Operation Mode :	802.11n20B3	Test Date :	2018/5/4
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
5460.00	E	Peak	52.56	0.06	52.62	74	-21.38
5460.00	E	Average	39.59	0.06	39.65	74	-34.35

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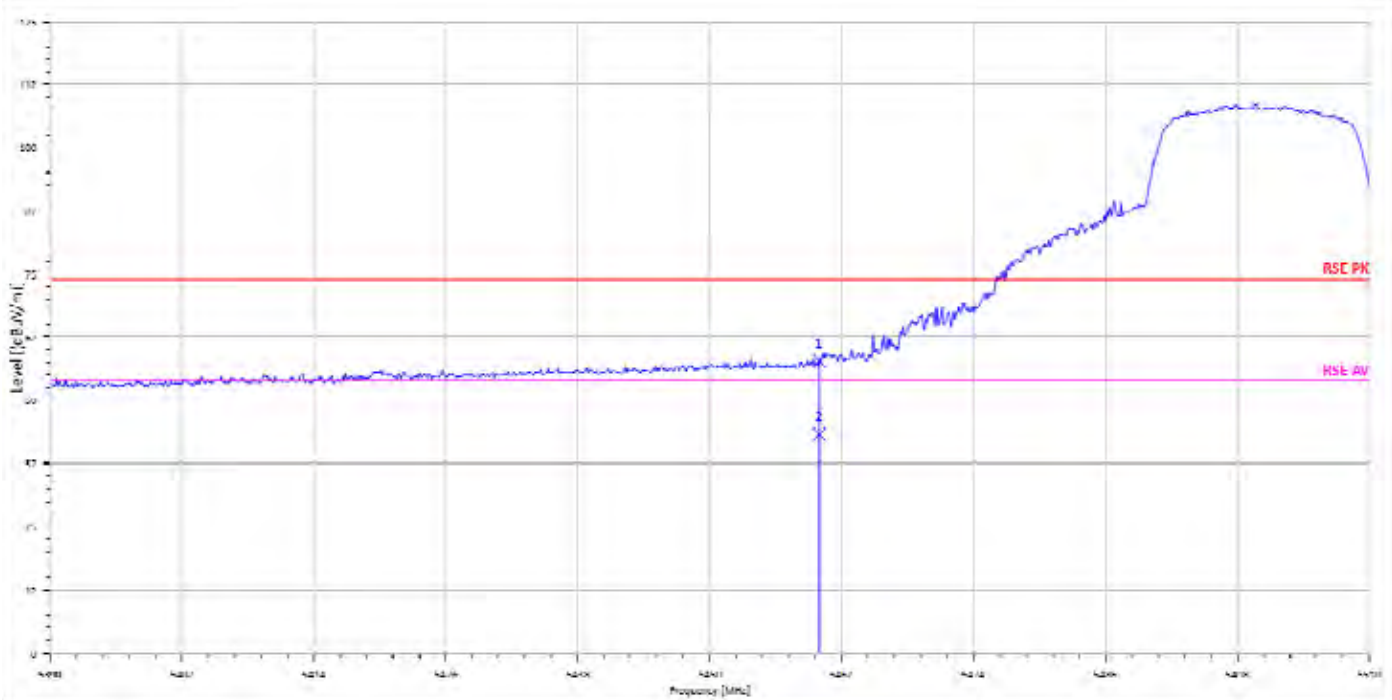
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Operation Mode :	802.11n20B3	Test Date :	2018/5/4
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5460.00	E	Peak	57.79	0.06	57.84	74	-16.16
5460.00	E	Average	43.25	0.06	43.31	54	-10.69

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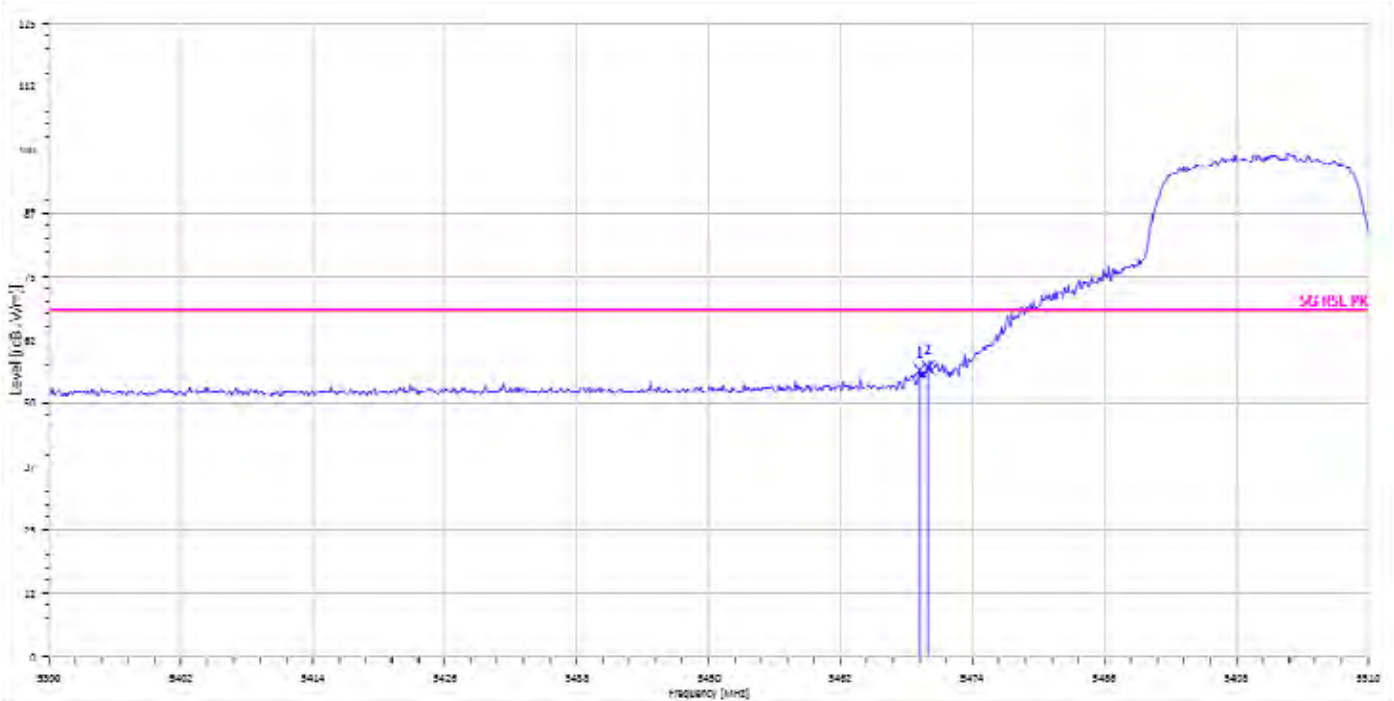
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Operation Mode :	802.11n20B3	Test Date :	2018/5/4
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5469.20	S	Peak	56.37	0.08	56.45	68.3	-11.85
5470.00	E	Peak	56.93	0.08	57.01	68.3	-11.29

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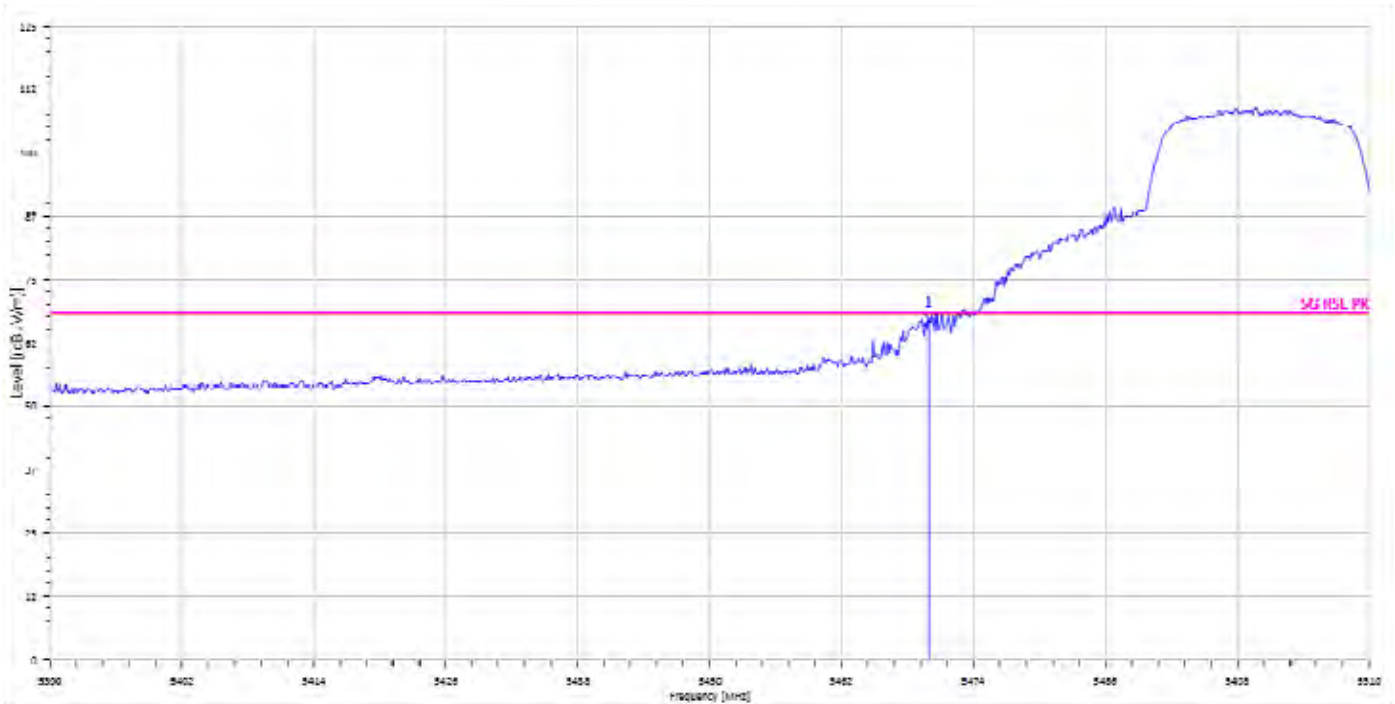
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Operation Mode :	802.11n20B3	Test Date :	2018/5/4
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5470.00	E	Peak	67.01	0.08	67.09	68.3	-1.21

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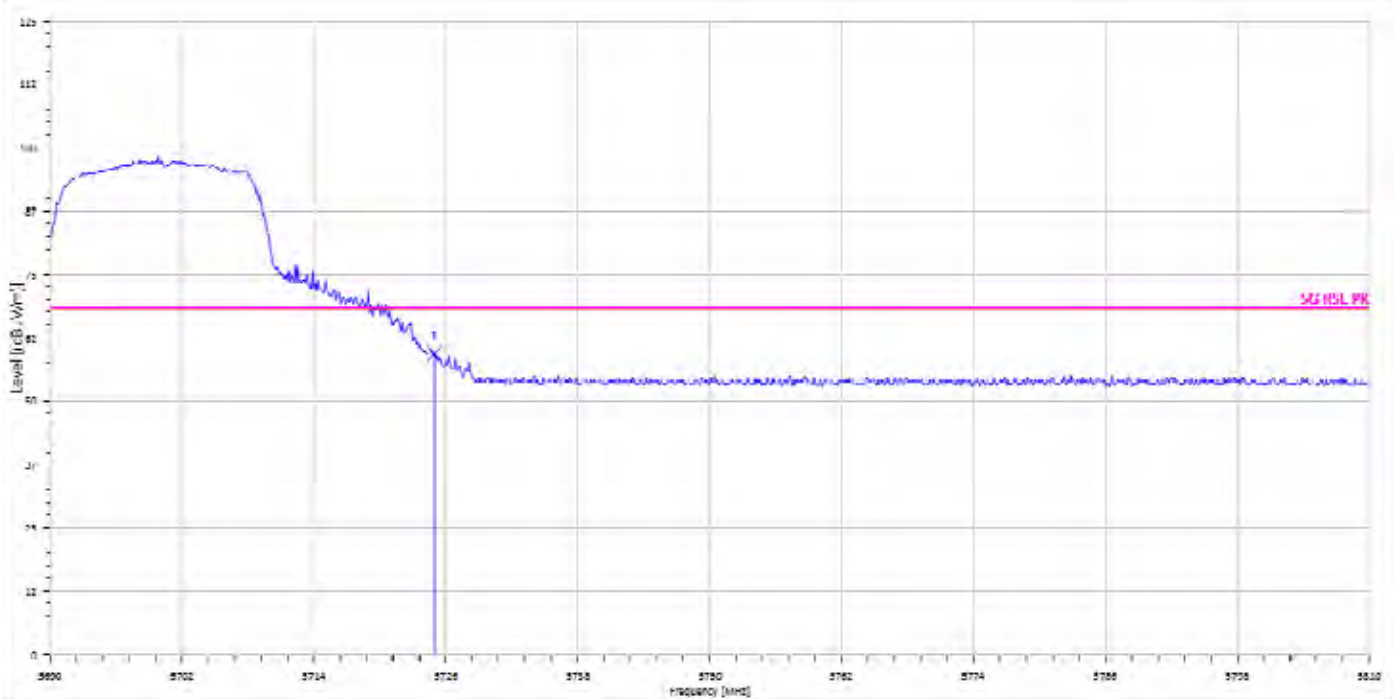
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Operation Mode : 802.11n20B3 Test Date : 2018/5/4
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5725.00	E	Peak	58.64	0.69	59.33	68.3	-8.97

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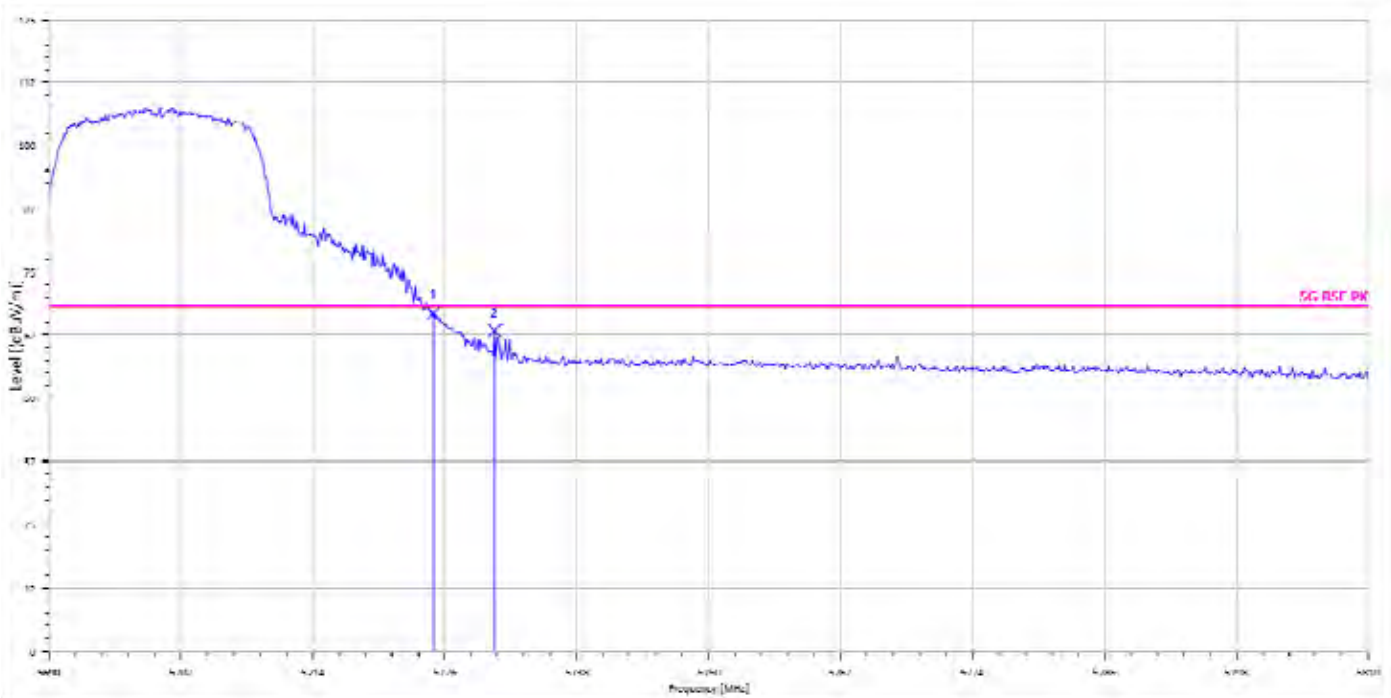
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Operation Mode :	802.11n20B3	Test Date :	2018/5/4
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5725.00	E	Peak	66.27	0.69	66.95	68.3	-1.35
5730.56	S	Peak	62.70	0.71	63.42	68.3	-4.88

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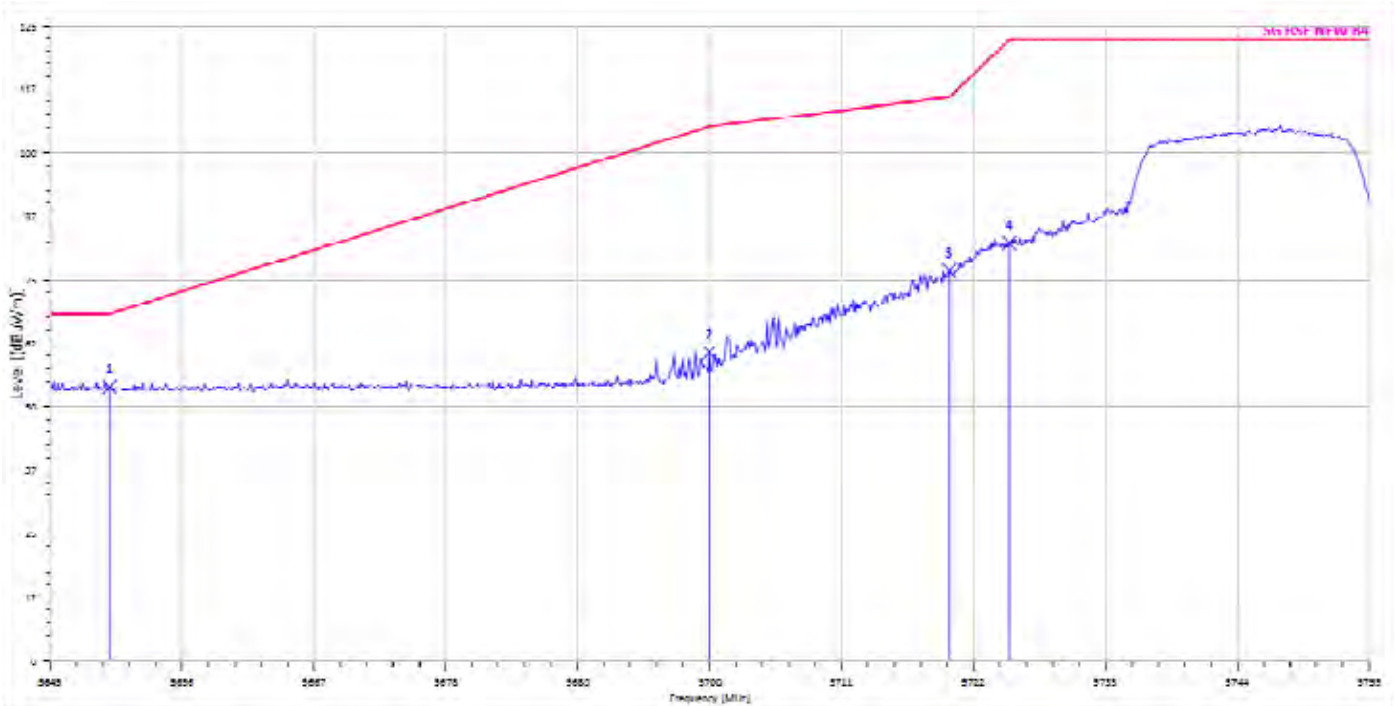
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Operation Mode : 802.11n20B4 Test Date : 2018/5/4
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
5650.00	S	Peak	53.32	0.63	53.94	68.23	-14.29
5700.00	S	Peak	60.06	0.56	60.62	105.23	-44.61
5720.00	S	Peak	76.06	0.66	76.72	110.83	-34.11
5725.00	E	Peak	81.54	0.69	82.22	122.23	-40.01

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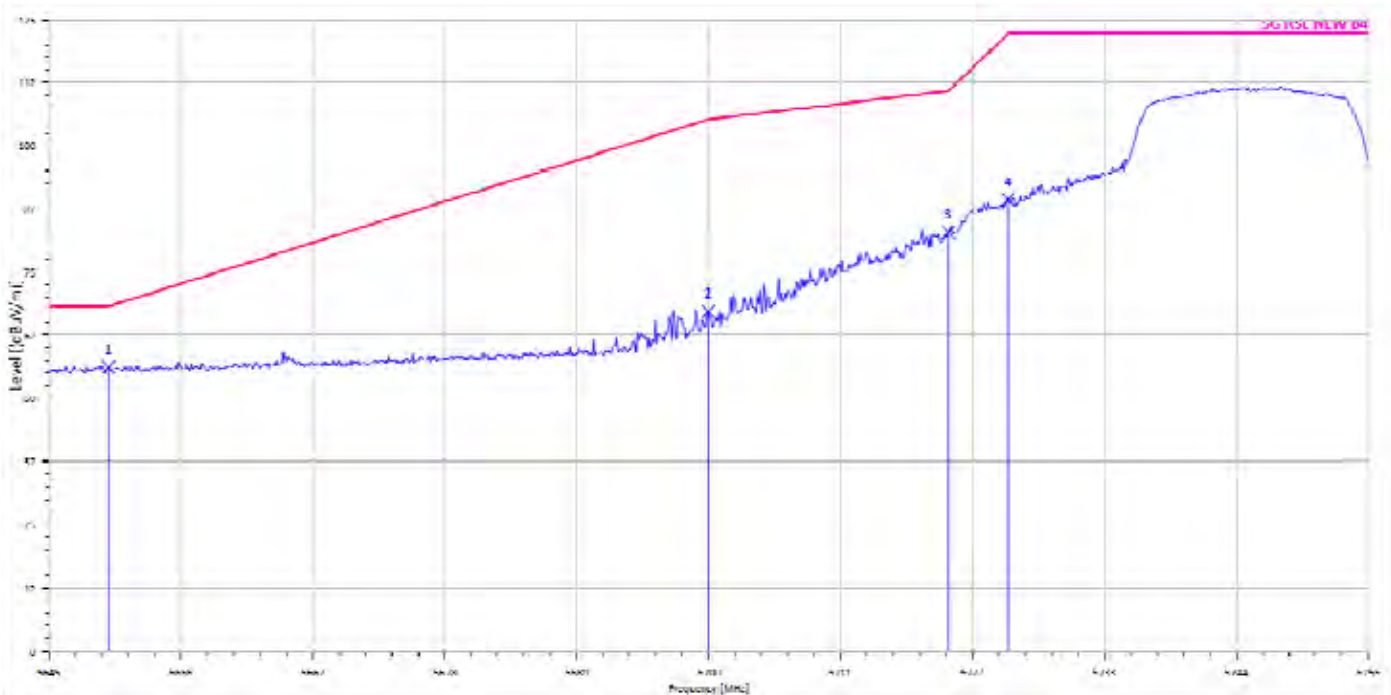
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Operation Mode : 802.11n20B4 Test Date : 2018/5/4
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
5650.00	S	Peak	55.51	0.63	56.13	68.23	-12.10
5700.00	S	Peak	66.65	0.56	67.21	105.23	-38.02
5720.00	S	Peak	82.20	0.66	82.86	110.83	-27.97
5725.00	E	Peak	88.66	0.69	89.34	122.23	-32.89

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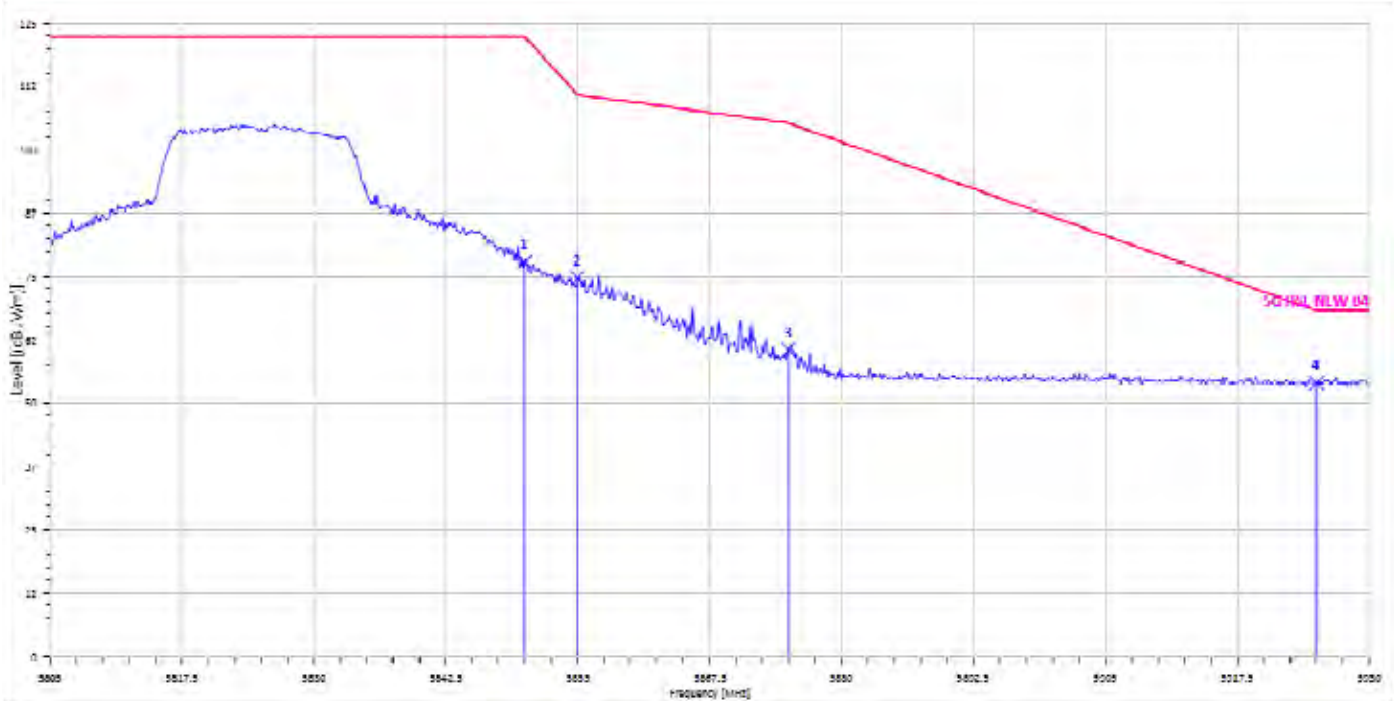
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Operation Mode : 802.11n20B4 Test Date : 2018/5/4
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
5850.00	E	Peak	76.79	1.01	77.80	122.23	-44.43
5855.00	S	Peak	73.68	1.01	74.69	110.83	-36.14
5875.00	S	Peak	59.50	0.99	60.48	105.23	-44.75
5925.00	S	Peak	52.90	1.04	53.94	68.23	-14.29

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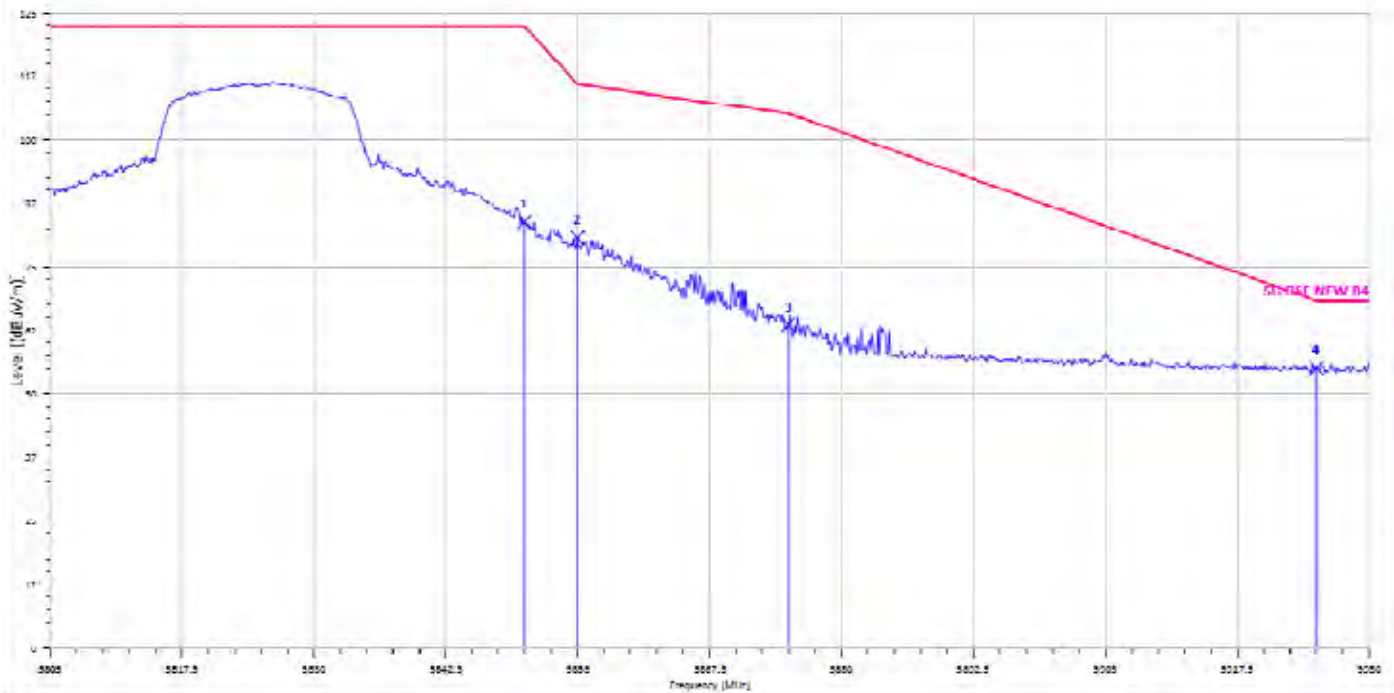
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Operation Mode : 802.11n20B4 Test Date : 2018/5/4
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
5850.00	E	Peak	82.82	1.01	83.83	122.23	-38.40
5855.00	S	Peak	79.64	1.01	80.64	110.83	-30.19
5875.00	S	Peak	62.58	0.99	63.56	105.23	-41.67
5925.00	S	Peak	54.04	1.04	55.07	68.23	-13.16

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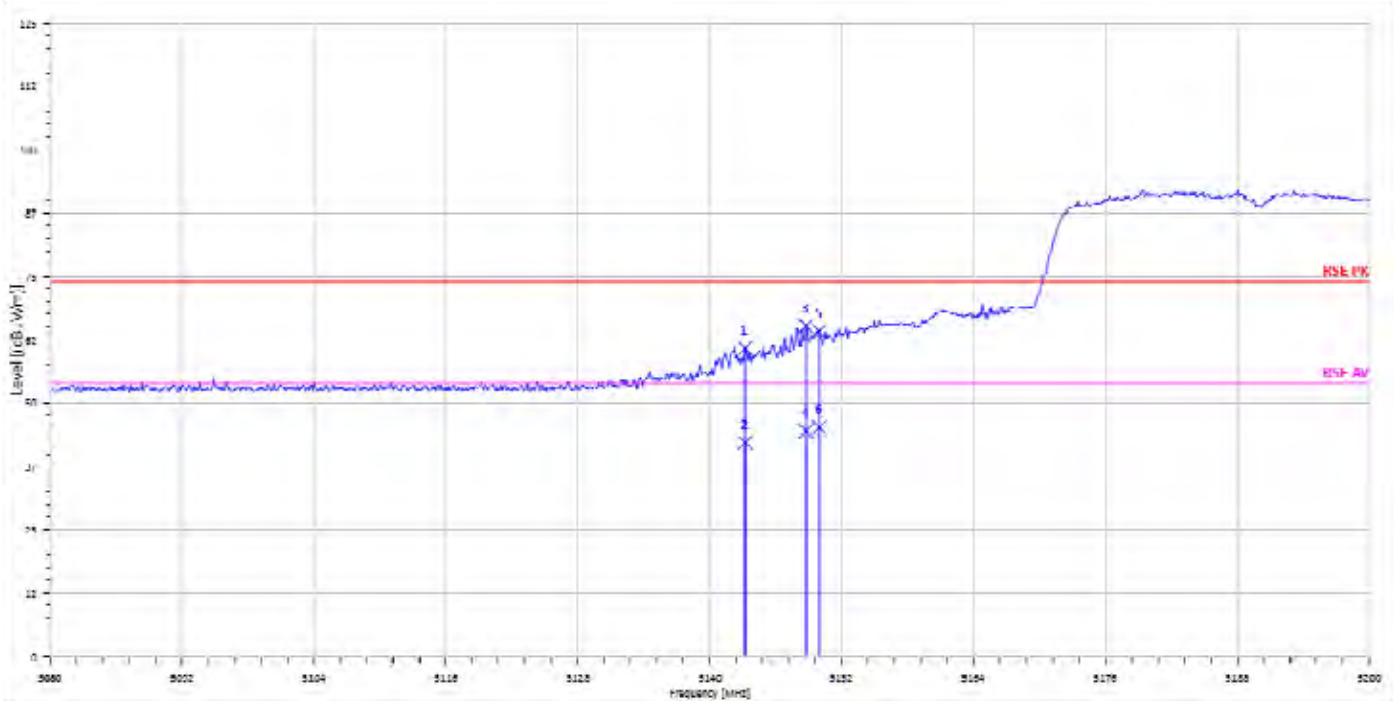
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802.11n40 HT mode

Operation Mode :	802.11n40B1	Test Date :	2018/5/4
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	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
5143.24	S	Peak	61.01	-0.17	60.84	74	-13.16
5143.24	S	Average	42.36	-0.17	42.19	54	-11.81
5148.76	S	Peak	65.38	-0.17	65.21	74	-8.79
5148.76	S	Average	44.63	-0.17	44.46	54	-9.54
5150.00	E	Peak	64.22	-0.17	64.05	74	-9.95
5150.00	E	Average	45.32	-0.17	45.15	54	-8.85

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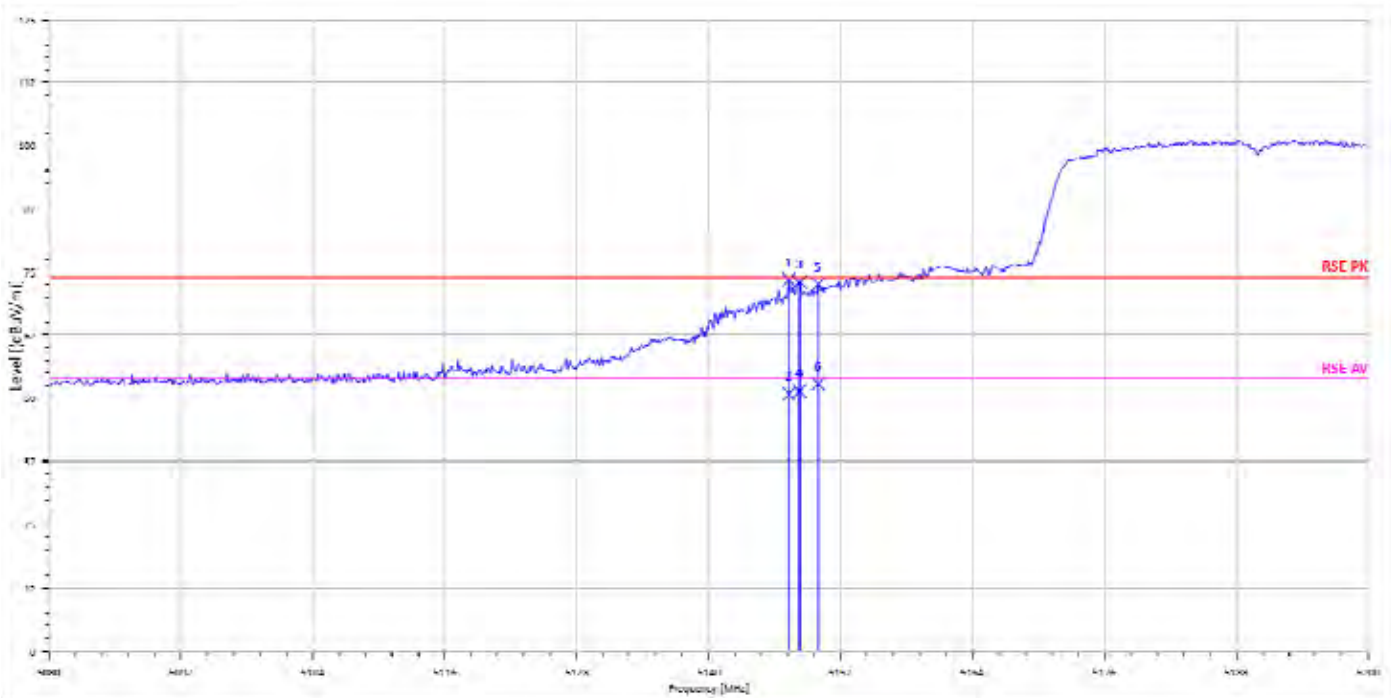
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Operation Mode : 802.11n40B1 Test Date : 2018/5/4
 Fundamental Frequency : 5190 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
5147.32	S	Peak	73.64	-0.17	73.48	74	-0.52
5147.32	S	Average	51.02	-0.17	50.85	54	-3.15
5148.28	S	Peak	73.16	-0.17	72.99	74	-1.01
5148.28	S	Average	51.62	-0.17	51.45	54	-2.55
5150.00	E	Peak	72.72	-0.17	72.55	74	-1.45
5150.00	E	Average	53.01	-0.17	52.84	54	-1.16

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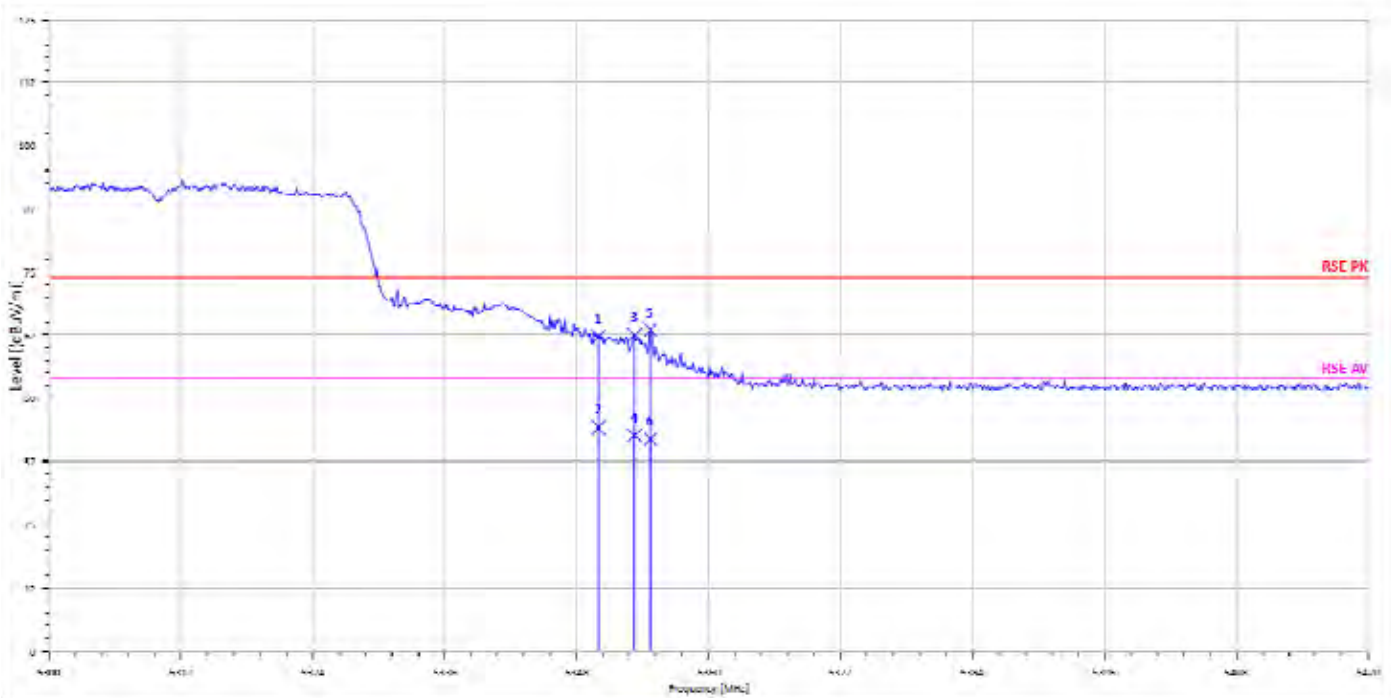
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Operation Mode : 802.11n40B2 Test Date : 2018/5/4
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
5350.00	S	Peak	62.34	-0.15	62.19	74	-11.81
5350.00	S	Average	44.35	-0.15	44.20	54	-9.80
5353.28	S	Peak	62.68	-0.15	62.53	74	-11.47
5353.28	S	Average	42.83	-0.15	42.68	54	-11.32
5354.72	S	Peak	63.70	-0.15	63.55	74	-10.45
5354.72	S	Average	42.13	-0.15	41.98	54	-12.02

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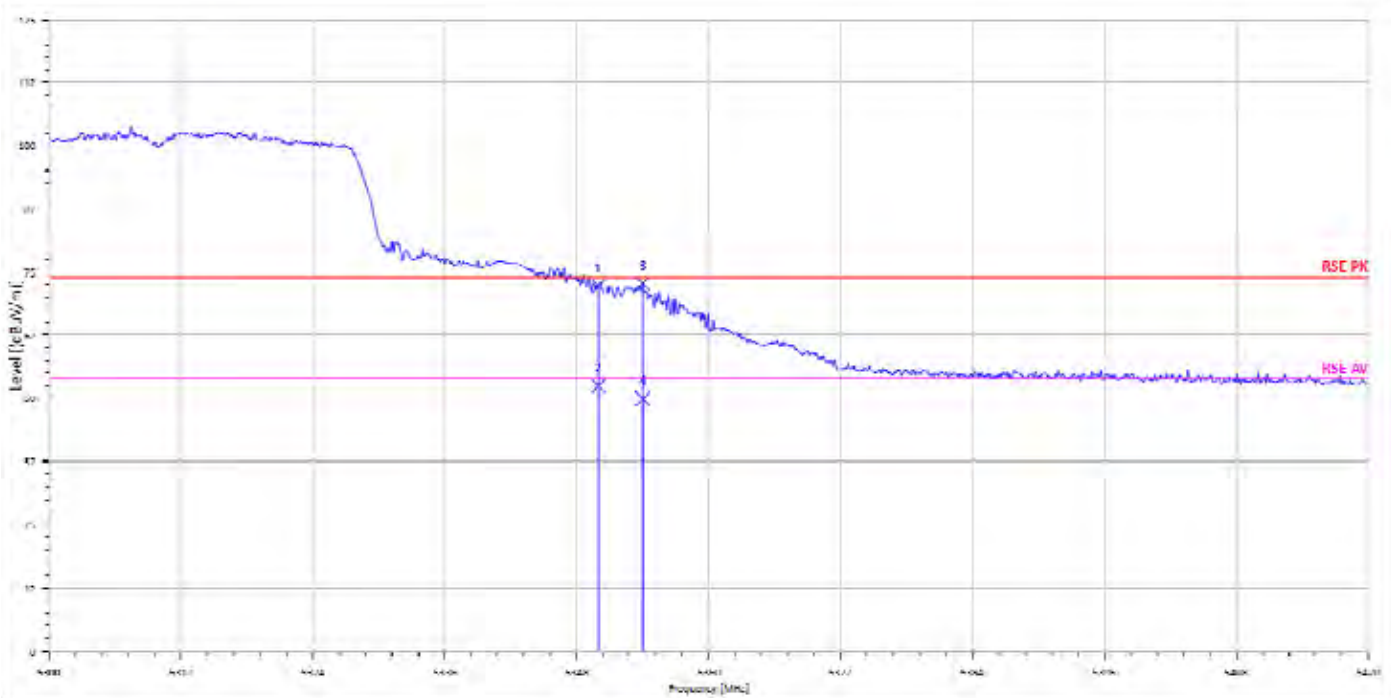
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Operation Mode : 802.11n40B2 Test Date : 2018/5/4
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
5350.00	E	Peak	72.34	-0.15	72.19	74	-1.81
5350.00	E	Average	52.64	-0.15	52.48	54	-1.52
5354.00	S	Peak	72.86	-0.15	72.71	74	-1.29
5354.00	S	Average	50.03	-0.15	49.88	54	-4.12

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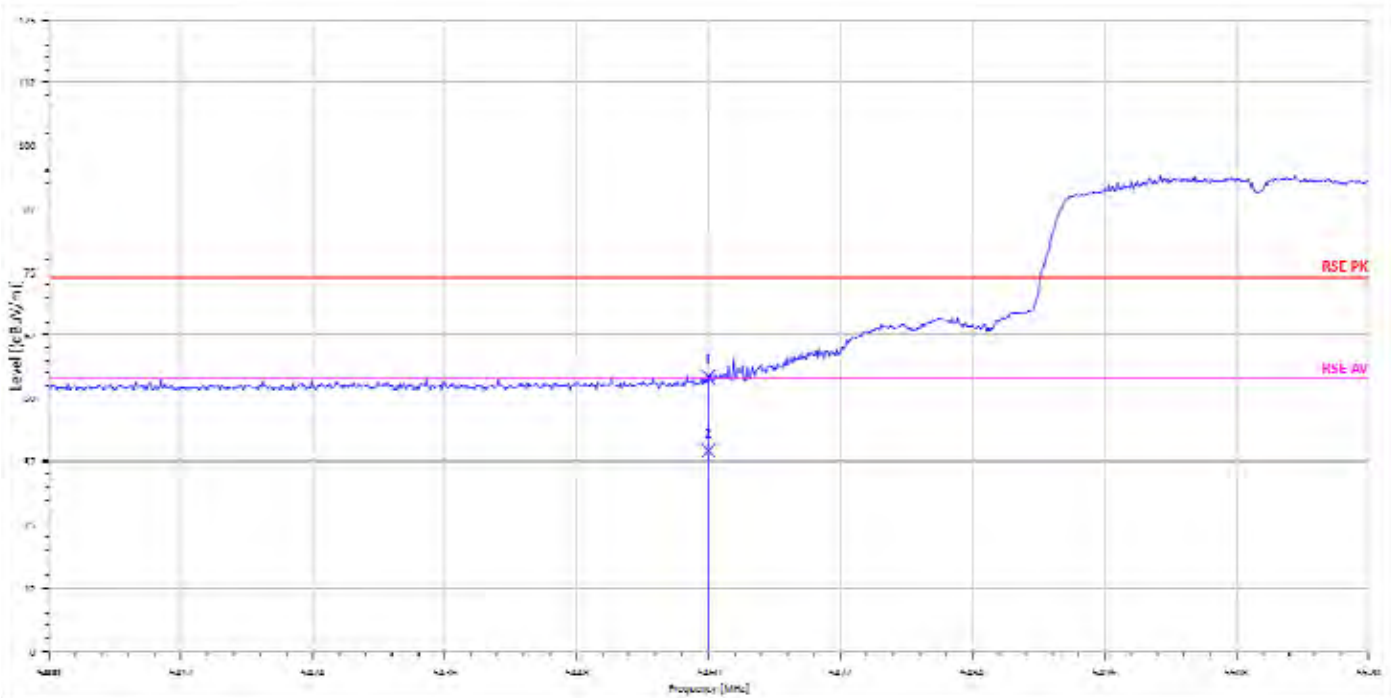
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Operation Mode : 802.11n40B3 Test Date : 2018/5/4
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
5460.00	E	Peak	54.10	0.06	54.15	74	-19.85
5460.00	E	Average	39.57	0.06	39.63	54	-14.37

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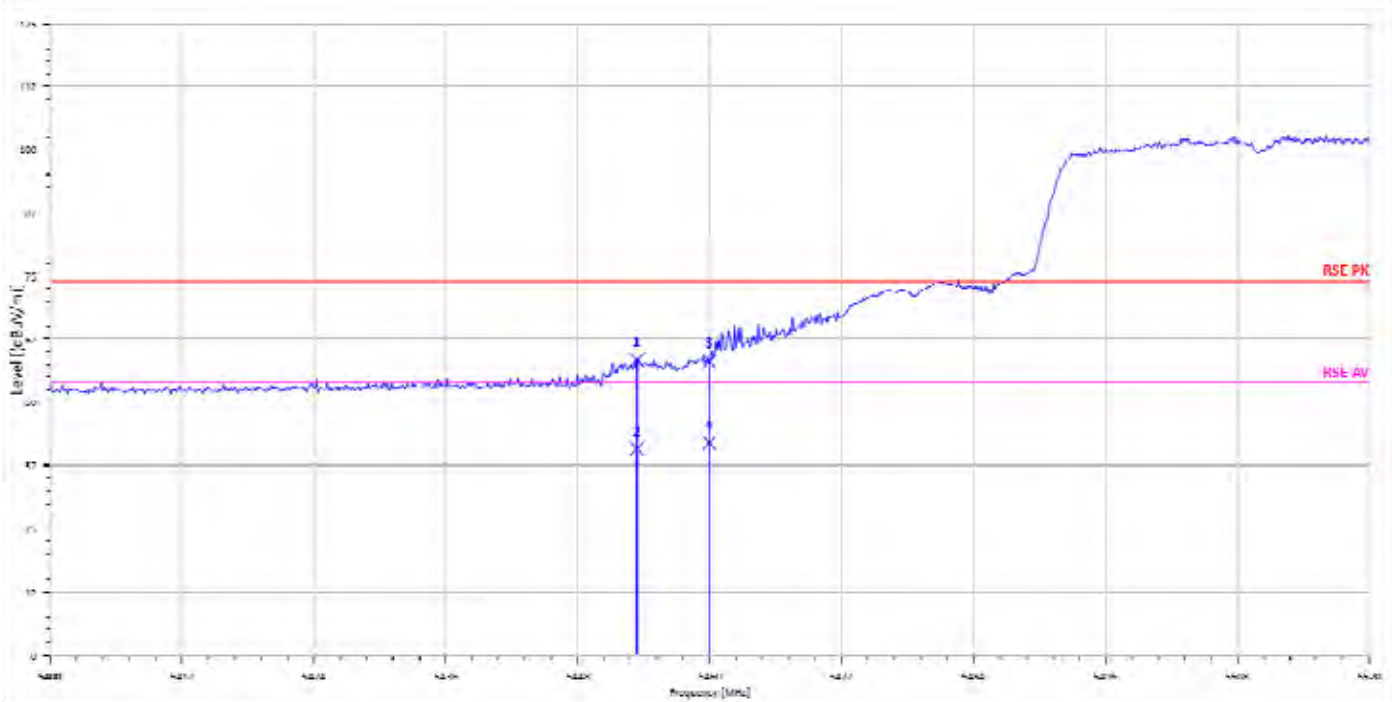
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Operation Mode : 802.11n40B3 Test Date : 2018/5/4
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
5453.40	S	Peak	58.40	0.04	58.45	74	-15.55
5453.40	S	Average	40.79	0.04	40.83	54	-13.17
5460.00	E	Peak	58.12	0.06	58.18	74	-15.82
5460.00	E	Average	41.96	0.06	42.01	54	-11.99

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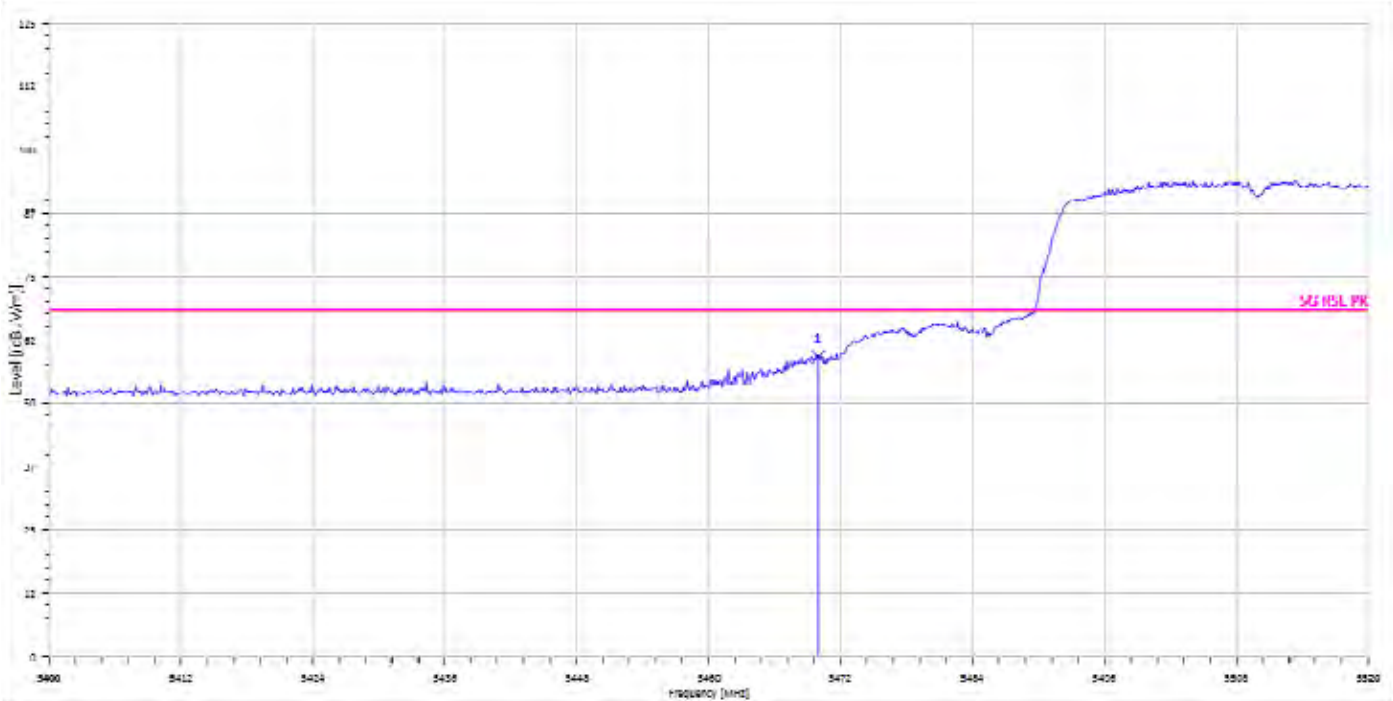
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Operation Mode :	802.11n40B3	Test Date :	2018/5/4
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5470.00	E	Peak	59.01	0.08	59.09	68.3	-9.21

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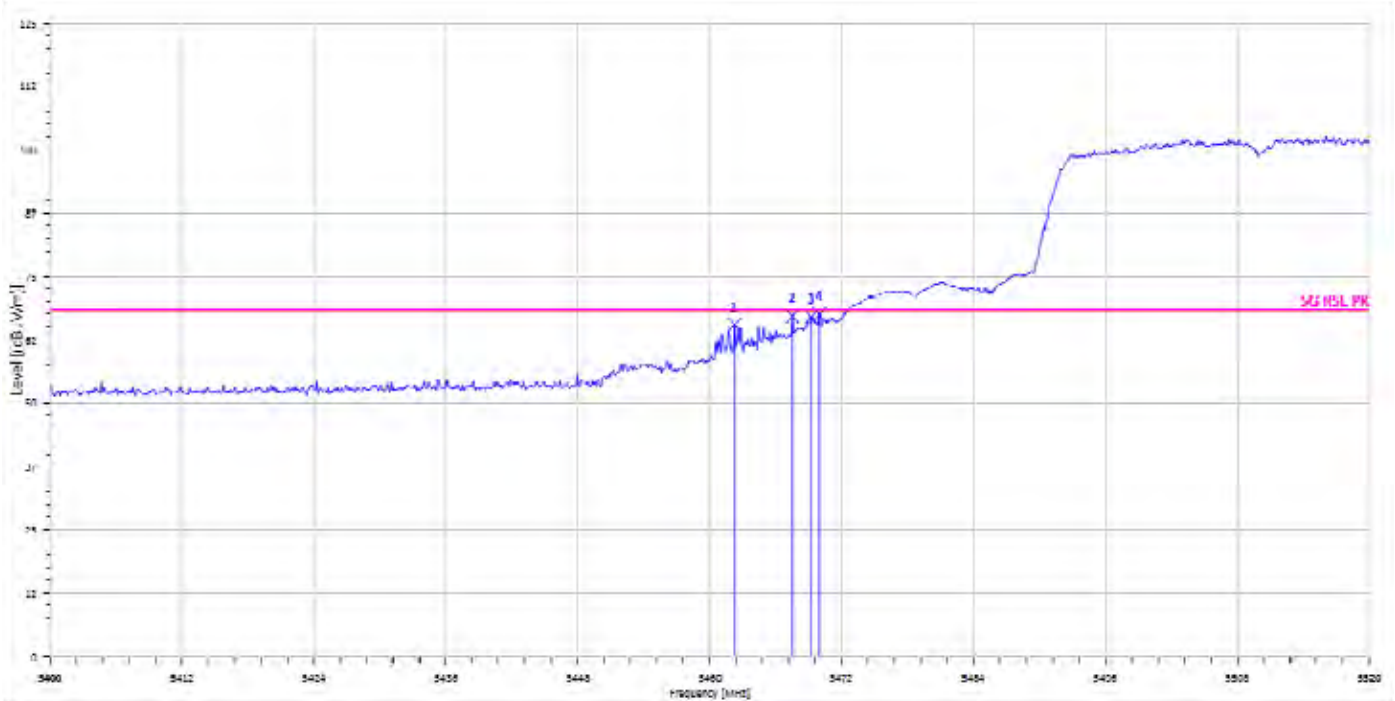
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Operation Mode :	802.11n40B3	Test Date :	2018/5/4
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5462.28	S	Peak	65.38	0.06	65.45	68.3	-2.85
5467.56	S	Peak	67.06	0.08	67.13	68.3	-1.17
5469.24	S	Peak	66.86	0.08	66.94	68.3	-1.36
5470.00	E	Peak	67.37	0.08	67.45	68.3	-0.85

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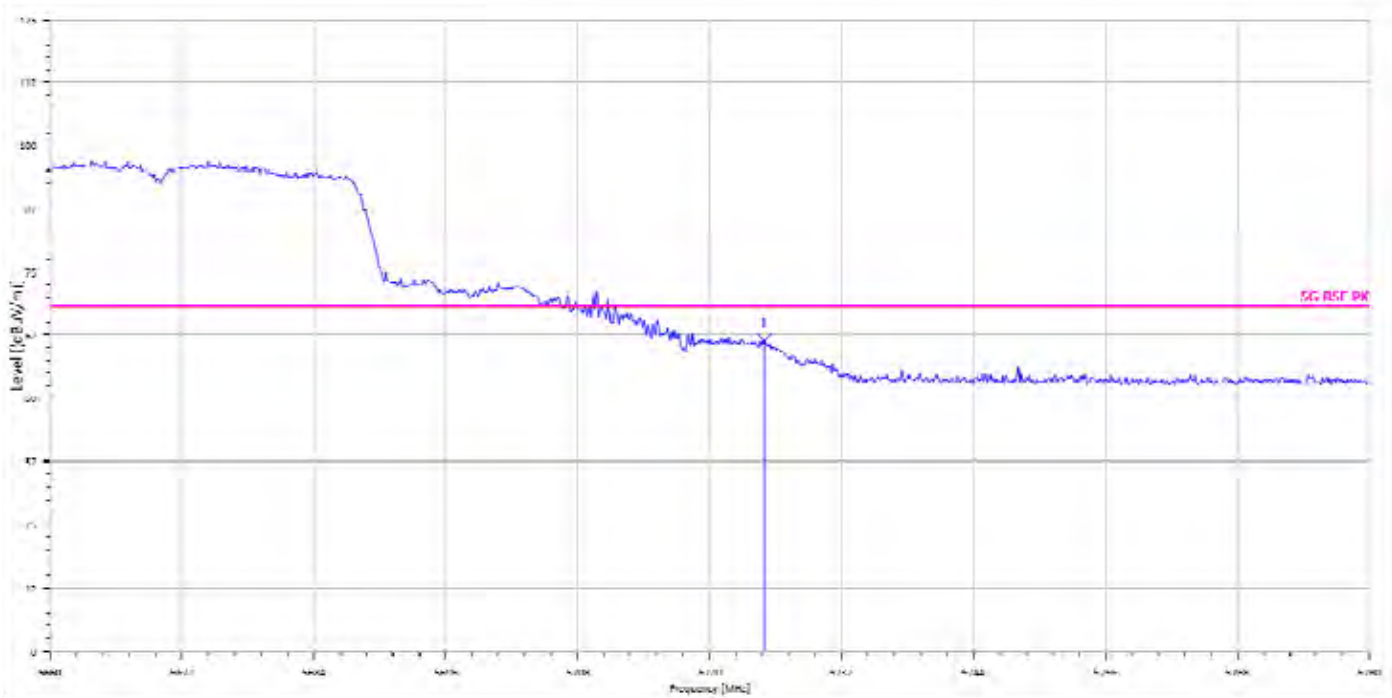
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Operation Mode :	802.11n40B3	Test Date :	2018/5/4
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Jerry
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
5725.00	E	Peak	60.63	0.69	61.32	68.3	-6.98

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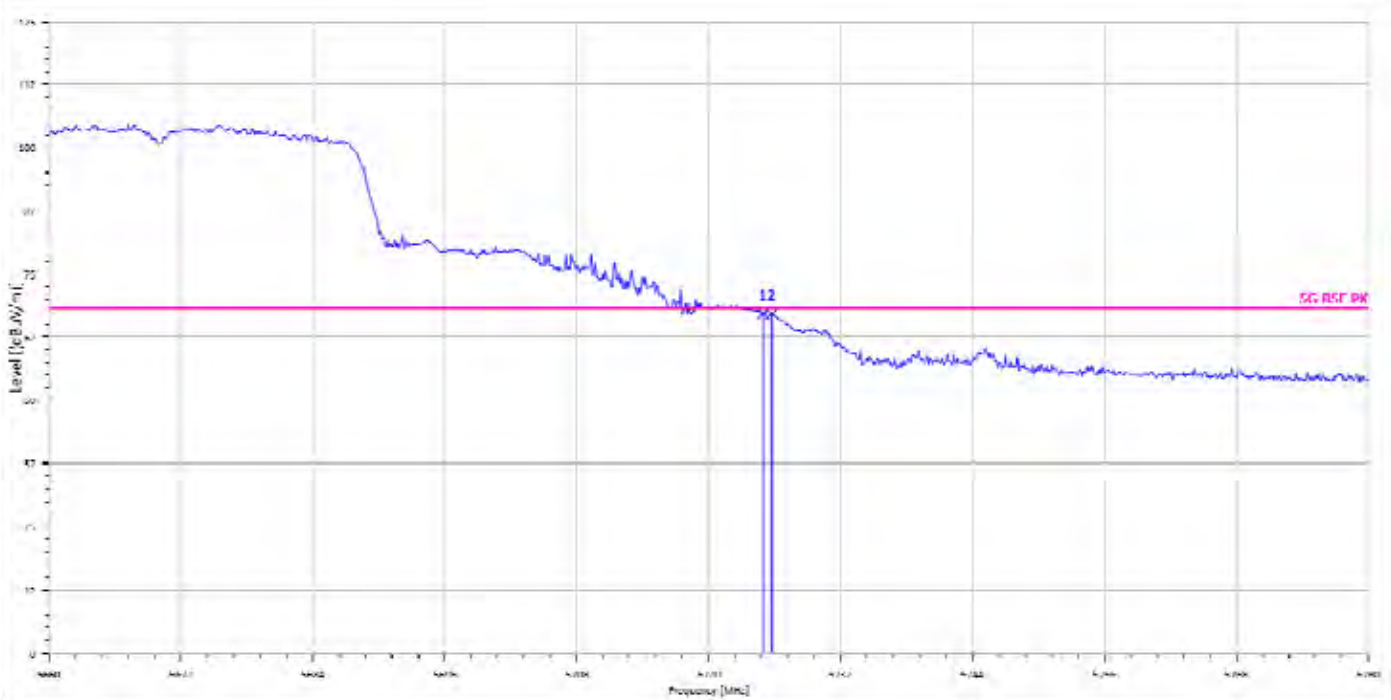
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Operation Mode : 802.11n40B3 Test Date : 2018/5/4
 Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
5725.00	E	Peak	66.61	0.69	67.29	68.3	-1.01
5725.76	S	Peak	66.55	0.69	67.23	68.3	-1.07

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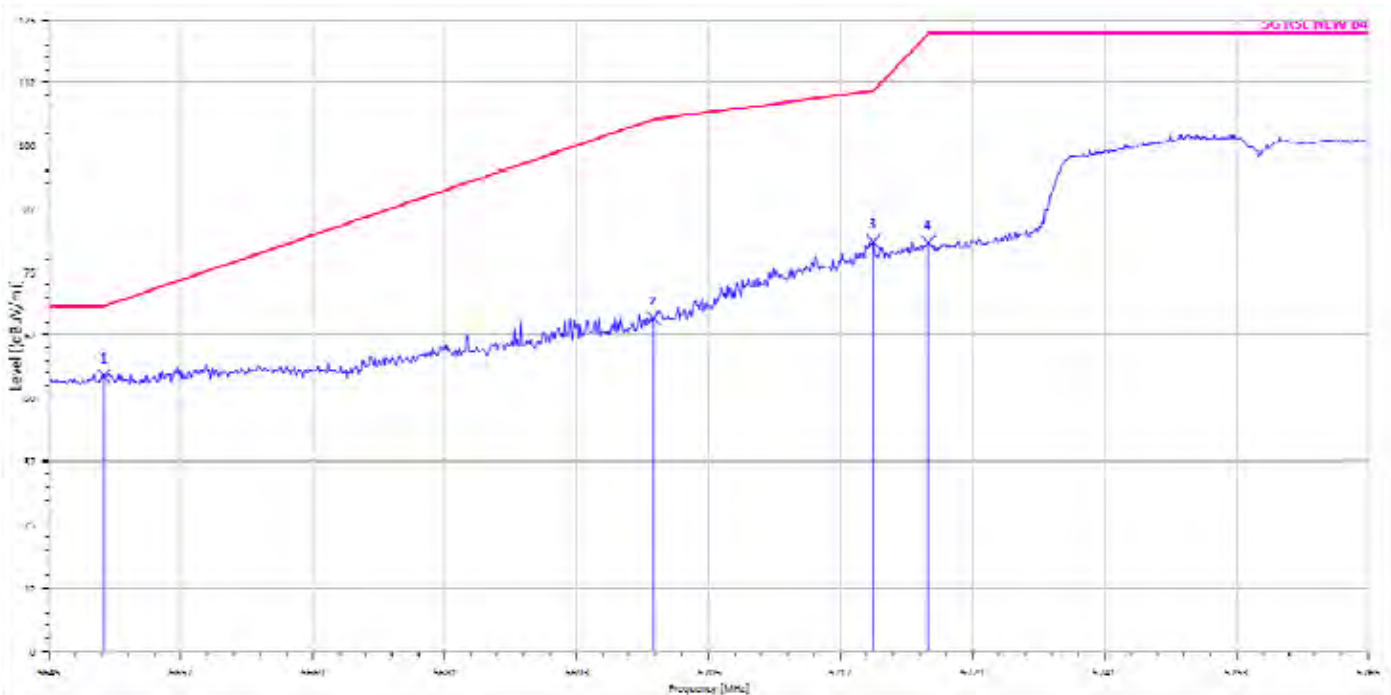
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Operation Mode : 802.11n40B4 Test Date : 2018/5/4
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
5650.00	S	Peak	53.83	0.63	54.45	68.23	-13.78
5700.00	S	Peak	65.30	0.56	65.86	105.23	-39.37
5720.00	S	Peak	80.32	0.66	80.98	110.83	-29.85
5725.00	E	Peak	80.11	0.69	80.80	122.23	-41.43

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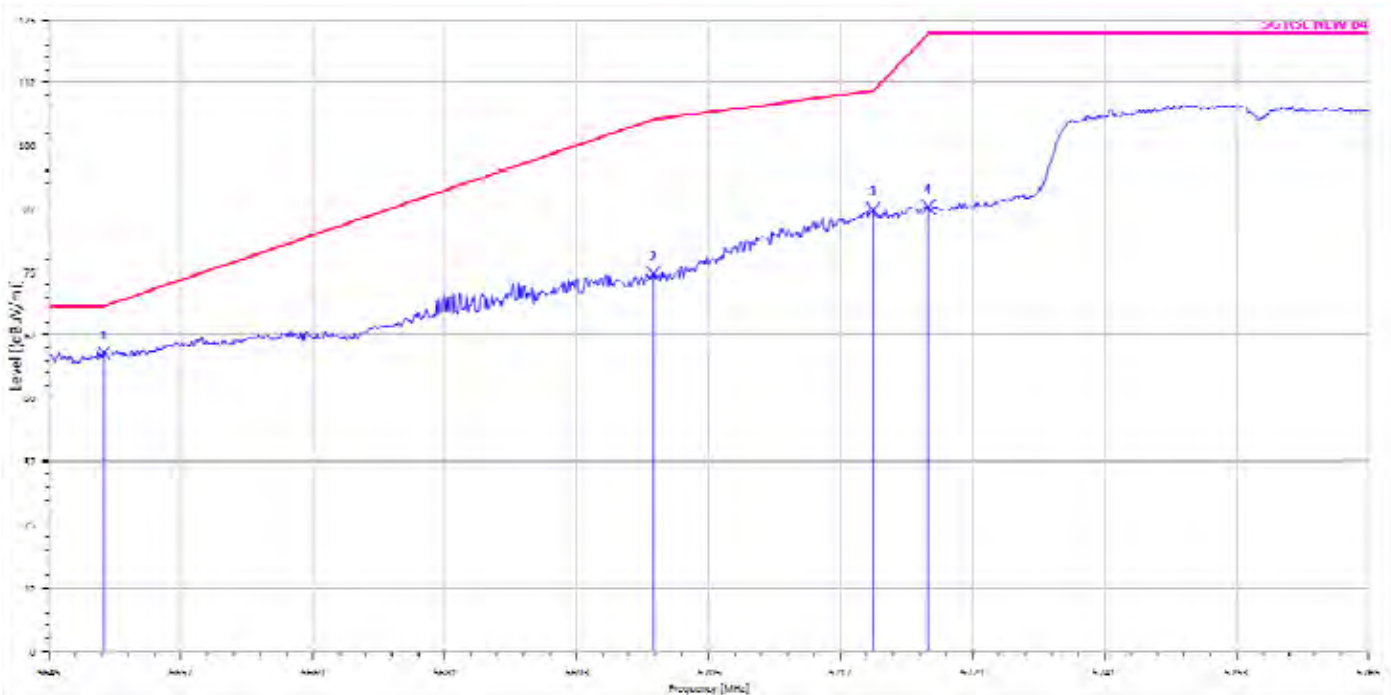
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Operation Mode : 802.11n40B4 Test Date : 2018/5/4
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
5650.00	S	Peak	58.41	0.63	59.04	68.23	-9.19
5700.00	S	Peak	74.08	0.56	74.64	105.23	-30.59
5720.00	S	Peak	86.70	0.66	87.36	110.83	-23.47
5725.00	S	Peak	87.21	0.69	87.89	122.23	-34.34

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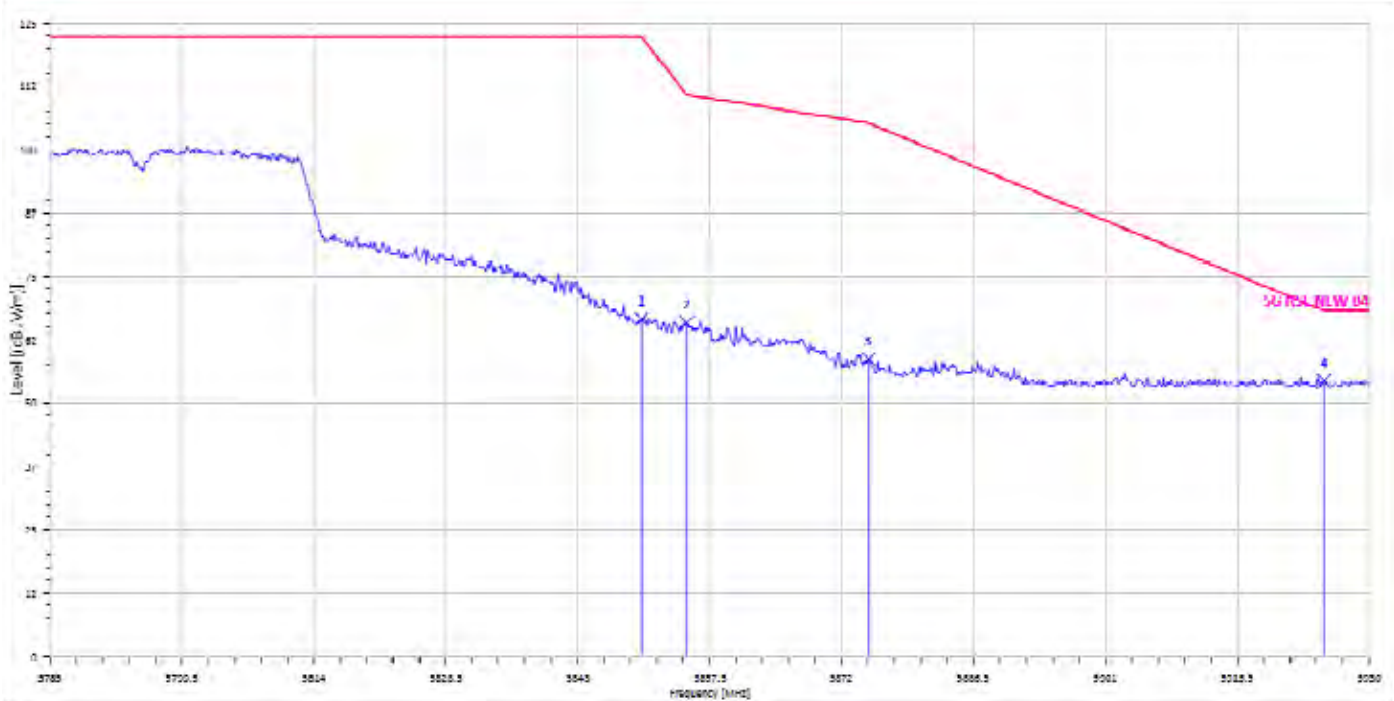
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Operation Mode : 802.11n40B4 Test Date : 2018/5/4
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 Operation Band : BE CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
5850.00	E	Peak	65.54	1.01	66.55	122.23	-55.68
5855.00	S	Peak	64.84	1.01	65.84	110.83	-44.99
5875.00	S	Peak	57.65	0.99	58.64	105.23	-46.59
5925.00	S	Peak	53.29	1.04	54.33	68.23	-13.90

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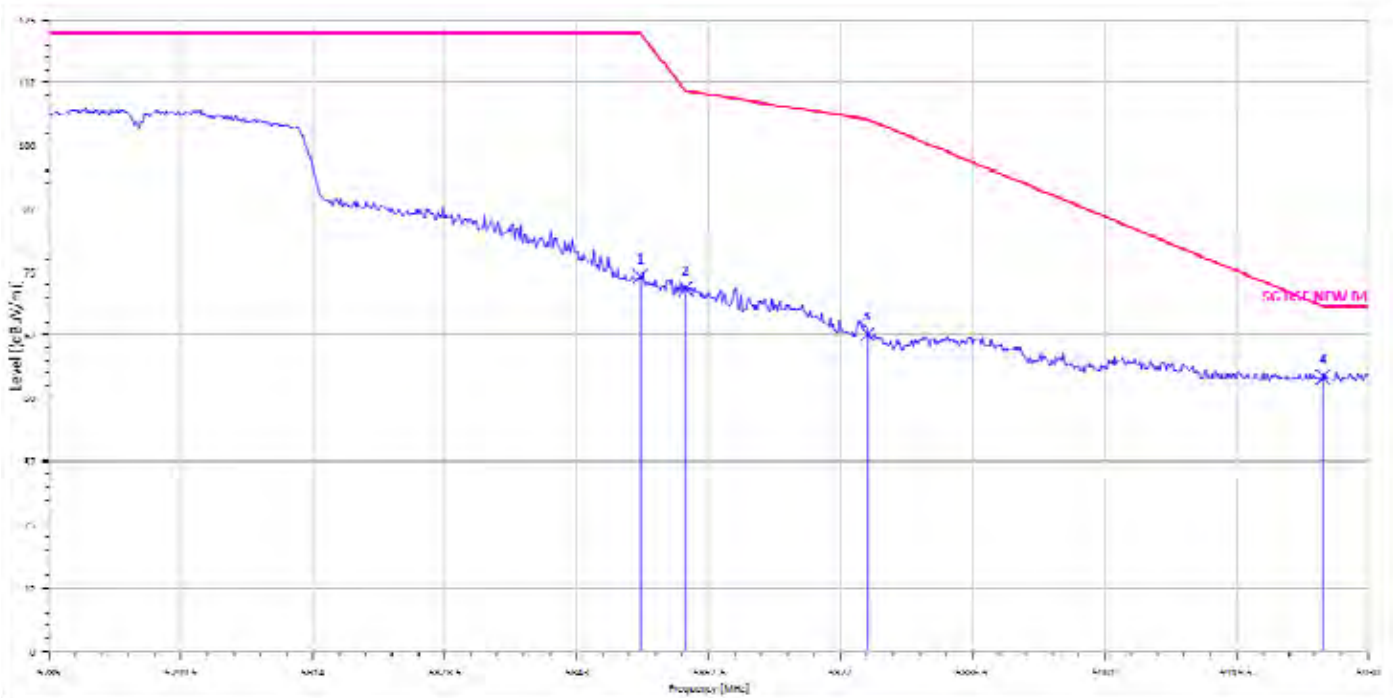
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 Operation Band : BE CH High Test Engineer : Jerry
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
5850.00	E	Peak	73.04	1.01	74.05	122.23	-48.18
5855.00	S	Peak	70.76	1.01	71.77	110.83	-39.06
5875.00	S	Peak	61.75	0.99	62.73	105.23	-42.50
5925.00	S	Peak	53.20	1.04	54.24	68.23	-13.99

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12 TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

12.2 Result

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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13 FREQUENCY STABILITY

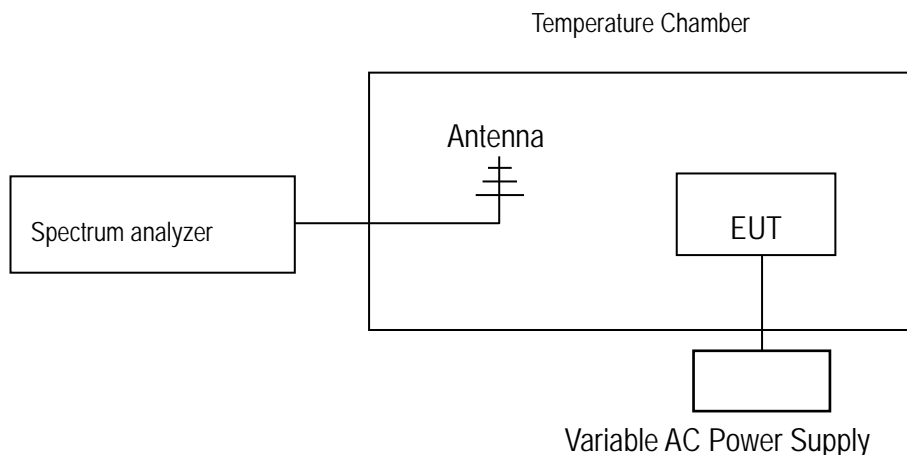
13.1 Standard Applicable

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

13.2 Measurement Procedure

1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
2. Set EUT as normal operation.
3. Turn the EUT on and couple its output to spectrum.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
6. Repeat step with the temperature chamber set to the lowest temperature.

13.3 Test SET-UP



13.4 Measurement Equipment Used:

SGS Conducted Room					
Name of Equip-ment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	Agilent	N9010A	MY51440113	06/21/2017	06/20/2018
Attenuator	Marvelous	MVE2213-10	RF31	12/26/2017	12/25/2018
DC Block	PASTERNAK	PE8210	RF81	12/26/2017	12/25/2018
Coaxial Cables	Woken	00100A1F1A185C	RF229	12/26/2017	12/25/2018

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13.5 Measurement Result

Startup:

Operation Mode	802.11 a	Test Date	2018.04.30
Temperature	:23	Test By	Henry
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	24.2V	36	5180	5,179.94618	0.00001039
		44	5220	5,219.91975	0.00001537
		48	5240	5,239.91564	0.00001610
		52	5260	5,259.91412	0.00001633
		60	5300	5,299.93072	0.00001307
		64	5320	5,319.95768	0.00000795
		100	5500	5,499.93204	0.00001236
		116	5580	5,579.91080	0.00001599
		140	5700	5,699.93153	0.00001201
		144	5720	5,719.92024	0.00001394
		149	5745	5,744.97775	0.00000387
		157	5785	5,784.92786	0.00001247
	165	5825	5,824.98159	0.00000316	
	19.8V	36	5180	5,179.99074	0.00000179
		44	5220	5,219.97002	0.00000574
		48	5240	5,239.92326	0.00001465
		52	5260	5,259.91985	0.00001524
		60	5300	5,299.97339	0.00000502
		64	5320	5,319.95352	0.00000874
		100	5500	5,499.95346	0.00000846
		116	5580	5,579.98159	0.00000330
		140	5700	5,699.91733	0.00001450
		144	5720	5,719.96711	0.00000575
		149	5745	5,744.95390	0.00000802
157		5785	5,784.93531	0.00001118	
165	5825	5,824.98022	0.00000340		

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25	22V	36	5180	5,179.90510	0.00001832
		44	5220	5,219.92360	0.00001464
		48	5240	5,239.94520	0.00001046
		52	5260	5,259.94369	0.00001071
		60	5300	5,299.95936	0.00000767
		64	5320	5,319.95633	0.00000821
		100	5500	5,499.93031	0.00001267
		116	5580	5,579.92430	0.00001357
		140	5700	5,699.95391	0.00000809
		144	5720	5,719.94421	0.00000975
		149	5745	5,744.92160	0.00001365
		157	5785	5,784.97165	0.00000490
		165	5825	5,824.94364	0.00000968
55	24.2V	36	5180	5,179.99384	0.00000119
		44	5220	5,219.99231	0.00000147
		48	5240	5,239.99090	0.00000174
		52	5260	5,259.97280	0.00000517
		60	5300	5,299.95604	0.00000829
		64	5320	5,319.99427	0.00000108
		100	5500	5,499.98018	0.00000360
		116	5580	5,579.91241	0.00001570
		140	5700	5,699.97106	0.00000508
		144	5720	5,719.92889	0.00001243
		149	5745	5,744.98971	0.00000179
		157	5785	5,784.91674	0.00001439
		165	5825	5,824.95810	0.00000719
	19.8V	36	5180	5,179.90942	0.00001749
		44	5220	5,219.94984	0.00000961
		48	5240	5,239.92725	0.00001388
		52	5260	5,259.91741	0.00001570
		60	5300	5,299.94800	0.00000981
		64	5320	5,319.92012	0.00001502
		100	5500	5,499.98091	0.00000347
		116	5580	5,579.98743	0.00000225
		140	5700	5,699.95729	0.00000749
		144	5720	5,719.95252	0.00000830
		149	5745	5,744.95375	0.00000805
		157	5785	5,784.92277	0.00001335
		165	5825	5,824.95752	0.00000729

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Operation Mode	802.11 n_HT40	Test Date	2018.04.30
Temperature	:23	Test By	Henry
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	24.2V	38	5190	5,189.93284	0.00001294
		46	5230	5,229.95048	0.00000947
		54	5270	5,269.92866	0.00001354
		62	5310	5,309.96799	0.00000603
		102	5510	5,509.91290	0.00001581
		110	5550	5,549.97180	0.00000508
		134	5670	5,669.98737	0.00000223
		142	5710	5,709.95294	0.00000824
		151	5755	5,754.97418	0.00000449
	159	5795	5,794.91543	0.00001459	
	19.8V	38	5190	5,189.94720	0.00001017
		46	5230	5,229.93049	0.00001329
		54	5270	5,269.91938	0.00001530
		62	5310	5,309.94992	0.00000943
		102	5510	5,509.92088	0.00001436
		110	5550	5,549.95548	0.00000802
		134	5670	5,669.97298	0.00000477
		142	5710	5,709.93425	0.00001151
151		5755	5,754.96907	0.00000537	
159	5795	5,794.90022	0.00001722		

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25	22V	38	5190	5,189.96322	0.00000709
		46	5230	5,229.94452	0.00001061
		54	5270	5,269.97274	0.00000517
		62	5310	5,309.97082	0.00000550
		102	5510	5,509.90799	0.00001670
		110	5550	5,549.93833	0.00001111
		134	5670	5,669.90962	0.00001594
		142	5710	5,709.93535	0.00001132
		151	5755	5,754.93269	0.00001170
		159	5795	5,794.97818	0.00000377
55	24.2V	38	5190	5,189.99275	0.00000140
		46	5230	5,229.90333	0.00001848
		54	5270	5,269.93377	0.00001257
		62	5310	5,309.96254	0.00000705
		102	5510	5,509.93697	0.00001144
		110	5550	5,549.99154	0.00000152
		134	5670	5,669.95064	0.00000871
		142	5710	5,709.99897	0.00000018
		151	5755	5,754.95948	0.00000704
		159	5795	5,794.91704	0.00001432
	19.8V	38	5190	5,189.90708	0.00001790
		46	5230	5,229.92677	0.00001400
		54	5270	5,269.93446	0.00001244
		62	5310	5,309.99824	0.00000033
		102	5510	5,509.93492	0.00001181
		110	5550	5,549.90429	0.00001725
		134	5670	5,669.98200	0.00000317
		142	5710	5,709.90184	0.00001719
		151	5755	5,754.98140	0.00000323
		159	5795	5,794.94639	0.00000925

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2 Minutes:

Operation Mode	802.11 a	Test Date	2018.04.30
Temperature	:23	Test By	Henry
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	24.2V	36	5180	5,179.90061	0.00001919
		44	5220	5,219.93072	0.00001327
		48	5240	5,239.98328	0.00000319
		52	5260	5,259.98218	0.00000339
		60	5300	5,299.96946	0.00000576
		64	5320	5,319.97728	0.00000427
		100	5500	5,499.99468	0.00000097
		116	5580	5,579.92264	0.00001386
		140	5700	5,699.90299	0.00001702
		144	5720	5,719.96529	0.00000607
		149	5745	5,744.99071	0.00000162
		157	5785	5,784.94354	0.00000976
	165	5825	5,824.91386	0.00001479	
	19.8V	36	5180	5,179.91063	0.00001725
		44	5220	5,219.95163	0.00000927
		48	5240	5,239.94280	0.00001092
		52	5260	5,259.97281	0.00000517
		60	5300	5,299.93980	0.00001136
		64	5320	5,319.94953	0.00000949
		100	5500	5,499.93122	0.00001251
		116	5580	5,579.95591	0.00000790
		140	5700	5,699.94601	0.00000947
		144	5720	5,719.90131	0.00001725
		149	5745	5,744.92420	0.00001319
157		5785	5,784.91412	0.00001485	
165	5825	5,824.99372	0.00000108		

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25	22V	36	5180	5,179.90626	0.00001810
		44	5220	5,219.92820	0.00001375
		48	5240	5,239.94926	0.00000968
		52	5260	5,259.96700	0.00000627
		60	5300	5,299.93832	0.00001164
		64	5320	5,319.91136	0.00001666
		100	5500	5,499.93430	0.00001195
		116	5580	5,579.93986	0.00001078
		140	5700	5,699.95385	0.00000810
		144	5720	5,719.95287	0.00000824
		149	5745	5,744.96303	0.00000644
		157	5785	5,784.93595	0.00001107
		165	5825	5,824.92224	0.00001335
55	24.2V	36	5180	5,179.98566	0.00000277
		44	5220	5,219.94683	0.00001019
		48	5240	5,239.94462	0.00001057
		52	5260	5,259.99815	0.00000035
		60	5300	5,299.96194	0.00000718
		64	5320	5,319.91336	0.00001629
		100	5500	5,499.93372	0.00001205
		116	5580	5,579.94457	0.00000993
		140	5700	5,699.97343	0.00000466
		144	5720	5,719.96182	0.00000667
		149	5745	5,744.91043	0.00001559
		157	5785	5,784.93052	0.00001201
		165	5825	5,824.99496	0.00000087
	19.8V	36	5180	5,179.98878	0.00000217
		44	5220	5,219.95840	0.00000797
		48	5240	5,239.99045	0.00000182
		52	5260	5,259.91897	0.00001540
		60	5300	5,299.95117	0.00000921
		64	5320	5,319.99735	0.00000050
		100	5500	5,499.92753	0.00001318
		116	5580	5,579.91947	0.00001443
		140	5700	5,699.93604	0.00001122
		144	5720	5,719.94521	0.00000958
		149	5745	5,744.99529	0.00000082
		157	5785	5,784.99825	0.00000030
		165	5825	5,824.94534	0.00000938

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Operation Mode	802.11 n_HT40	Test Date	2018.04.30
Temperature	:23	Test By	Henry
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	24.2V	38	5190	5,189.96903	0.00000597
		46	5230	5,229.97264	0.00000523
		54	5270	5,269.90278	0.00001845
		62	5310	5,309.95724	0.00000805
		102	5510	5,509.99297	0.00000128
		110	5550	5,549.97821	0.00000393
		134	5670	5,669.92947	0.00001244
		142	5710	5,709.98422	0.00000276
		151	5755	5,754.98882	0.00000194
		159	5795	5,794.93376	0.00001143
	19.8V	38	5190	5,189.93513	0.00001250
		46	5230	5,229.90321	0.00001851
		54	5270	5,269.92651	0.00001394
		62	5310	5,309.98448	0.00000292
		102	5510	5,509.93093	0.00001254
		110	5550	5,549.98725	0.00000230
		134	5670	5,669.99311	0.00000122
		142	5710	5,709.90351	0.00001690
		151	5755	5,754.91566	0.00001466
		159	5795	5,794.93732	0.00001082

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25	22V	38	5190	5,189.98708	0.00000249
		46	5230	5,229.99445	0.00000106
		54	5270	5,269.97857	0.00000407
		62	5310	5,309.90503	0.00001789
		102	5510	5,509.98732	0.00000230
		110	5550	5,549.92038	0.00001435
		134	5670	5,669.98180	0.00000321
		142	5710	5,709.98557	0.00000253
		151	5755	5,754.94839	0.00000897
		159	5795	5,794.97815	0.00000377
55	24.2V	38	5190	5,189.91339	0.00001669
		46	5230	5,229.93693	0.00001206
		54	5270	5,269.94619	0.00001021
		62	5310	5,309.91852	0.00001534
		102	5510	5,509.94176	0.00001057
		110	5550	5,549.91436	0.00001543
		134	5670	5,669.90885	0.00001608
		142	5710	5,709.96446	0.00000622
		151	5755	5,754.93194	0.00001183
		159	5795	5,794.97085	0.00000503
	19.8V	38	5190	5,189.95385	0.00000889
		46	5230	5,229.98532	0.00000281
		54	5270	5,269.94187	0.00001103
		62	5310	5,309.91904	0.00001525
		102	5510	5,509.96279	0.00000675
		110	5550	5,549.91909	0.00001458
		134	5670	5,669.90590	0.00001660
		142	5710	5,709.98553	0.00000253
		151	5755	5,754.98739	0.00000219
		159	5795	5,794.93001	0.00001208

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5 Minutes:

Operation Mode	802.11 a	Test Date	2018.04.30
Temperature	:23	Test By	Henry
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	24.2V	36	5180	5,179.96861	0.00000606
		44	5220	5,219.97836	0.00000415
		48	5240	5,239.97121	0.00000549
		52	5260	5,259.96461	0.00000673
		60	5300	5,299.95229	0.00000900
		64	5320	5,319.91763	0.00001548
		100	5500	5,499.99948	0.00000009
		116	5580	5,579.90283	0.00001741
		140	5700	5,699.95966	0.00000708
		144	5720	5,719.98569	0.00000250
		149	5745	5,744.97960	0.00000355
		157	5785	5,784.95447	0.00000787
	165	5825	5,824.97894	0.00000362	
	19.8V	36	5180	5,179.97088	0.00000562
		44	5220	5,219.92224	0.00001490
		48	5240	5,239.98824	0.00000224
		52	5260	5,259.93906	0.00001159
		60	5300	5,299.97458	0.00000480
		64	5320	5,319.98998	0.00000188
		100	5500	5,499.95215	0.00000870
		116	5580	5,579.90710	0.00001665
		140	5700	5,699.91124	0.00001557
		144	5720	5,719.97193	0.00000491
		149	5745	5,744.96001	0.00000696
157		5785	5,784.99355	0.00000111	
165	5825	5,824.91486	0.00001462		

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25	22V	36	5180	5,179.92319	0.00001483
		44	5220	5,219.99549	0.00000086
		48	5240	5,239.99572	0.00000082
		52	5260	5,259.96481	0.00000669
		60	5300	5,299.99456	0.00000103
		64	5320	5,319.98662	0.00000252
		100	5500	5,499.94494	0.00001001
		116	5580	5,579.96980	0.00000541
		140	5700	5,699.95493	0.00000791
		144	5720	5,719.95914	0.00000714
		149	5745	5,744.91278	0.00001518
		157	5785	5,784.98730	0.00000220
		165	5825	5,824.93726	0.00001077
55	24.2V	36	5180	5,179.98554	0.00000279
		44	5220	5,219.91511	0.00001626
		48	5240	5,239.90595	0.00001795
		52	5260	5,259.90055	0.00001891
		60	5300	5,299.93480	0.00001230
		64	5320	5,319.91284	0.00001638
		100	5500	5,499.98519	0.00000269
		116	5580	5,579.97883	0.00000379
		140	5700	5,699.98478	0.00000267
		144	5720	5,719.96666	0.00000583
		149	5745	5,744.92986	0.00001221
		157	5785	5,784.94344	0.00000978
		165	5825	5,824.97971	0.00000348
	19.8V	36	5180	5,179.95171	0.00000932
		44	5220	5,219.90381	0.00001843
		48	5240	5,239.92999	0.00001336
		52	5260	5,259.95491	0.00000857
		60	5300	5,299.98593	0.00000265
		64	5320	5,319.92809	0.00001352
		100	5500	5,499.90157	0.00001790
		116	5580	5,579.91054	0.00001603
		140	5700	5,699.91817	0.00001436
		144	5720	5,719.94872	0.00000897
		149	5745	5,744.92400	0.00001323
		157	5785	5,784.97035	0.00000513
		165	5825	5,824.97825	0.00000373

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Operation Mode	802.11 n_HT40	Test Date	2018.04.30
Temperature	:23	Test By	Henry
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	24.2V	38	5190	5,189.92809	0.00001386
		46	5230	5,229.95348	0.00000889
		54	5270	5,269.94146	0.00001111
		62	5310	5,309.92552	0.00001403
		102	5510	5,509.99473	0.00000096
		110	5550	5,549.97369	0.00000474
		134	5670	5,669.96181	0.00000674
		142	5710	5,709.90743	0.00001621
		151	5755	5,754.94209	0.00001006
		159	5795	5,794.98592	0.00000243
	19.8V	38	5190	5,189.94570	0.00001046
		46	5230	5,229.96896	0.00000593
		54	5270	5,269.92414	0.00001439
		62	5310	5,309.95389	0.00000868
		102	5510	5,509.96366	0.00000660
		110	5550	5,549.96129	0.00000697
		134	5670	5,669.96186	0.00000673
		142	5710	5,709.96636	0.00000589
		151	5755	5,754.97723	0.00000396
		159	5795	5,794.94829	0.00000892

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25	22V	38	5190	5,189.94774	0.00001007
		46	5230	5,229.94248	0.00001100
		54	5270	5,269.95821	0.00000793
		62	5310	5,309.91503	0.00001600
		102	5510	5,509.90880	0.00001655
		110	5550	5,549.91332	0.00001562
		134	5670	5,669.95974	0.00000710
		142	5710	5,709.92749	0.00001270
		151	5755	5,754.91014	0.00001561
		159	5795	5,794.96591	0.00000588
55	24.2V	38	5190	5,189.97685	0.00000446
		46	5230	5,229.98927	0.00000205
		54	5270	5,269.93933	0.00001151
		62	5310	5,309.93392	0.00001244
		102	5510	5,509.94737	0.00000955
		110	5550	5,549.95144	0.00000875
		134	5670	5,669.99579	0.00000074
		142	5710	5,709.99648	0.00000062
		151	5755	5,754.91177	0.00001533
		159	5795	5,794.96183	0.00000659
	19.8V	38	5190	5,189.91077	0.00001719
		46	5230	5,229.91578	0.00001610
		54	5270	5,269.99841	0.00000030
		62	5310	5,309.95803	0.00000790
		102	5510	5,509.90018	0.00001812
		110	5550	5,549.98030	0.00000355
		134	5670	5,669.97843	0.00000380
		142	5710	5,709.96710	0.00000576
		151	5755	5,754.92883	0.00001237
		159	5795	5,794.98992	0.00000174

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10 Minutes:

Operation Mode	802.11 a	Test Date	2018.04.30
Temperature	:23	Test By	Henry
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	24.2V	36	5180	5,179.94230	0.00001114
		44	5220	5,219.90651	0.00001791
		48	5240	5,239.92826	0.00001369
		52	5260	5,259.91386	0.00001638
		60	5300	5,299.96603	0.00000641
		64	5320	5,319.91151	0.00001663
		100	5500	5,499.95380	0.00000840
		116	5580	5,579.96430	0.00000640
		140	5700	5,699.94805	0.00000911
		144	5720	5,719.97415	0.00000452
		149	5745	5,744.93234	0.00001178
		157	5785	5,784.96724	0.00000566
	165	5825	5,824.93106	0.00001184	
	19.8V	36	5180	5,179.92591	0.00001430
		44	5220	5,219.90644	0.00001792
		48	5240	5,239.90858	0.00001745
		52	5260	5,259.91168	0.00001679
		60	5300	5,299.92967	0.00001327
		64	5320	5,319.95295	0.00000884
		100	5500	5,499.97332	0.00000485
		116	5580	5,579.90331	0.00001733
		140	5700	5,699.97375	0.00000461
		144	5720	5,719.97920	0.00000364
		149	5745	5,744.99821	0.00000031
157		5785	5,784.93484	0.00001126	
165	5825	5,824.91509	0.00001458		

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25	22V	36	5180	5,179.91851	0.00001573
		44	5220	5,219.96450	0.00000680
		48	5240	5,239.93830	0.00001177
		52	5260	5,259.95290	0.00000895
		60	5300	5,299.93027	0.00001316
		64	5320	5,319.92449	0.00001419
		100	5500	5,499.99161	0.00000153
		116	5580	5,579.91462	0.00001530
		140	5700	5,699.91183	0.00001547
		144	5720	5,719.96734	0.00000571
		149	5745	5,744.90362	0.00001678
		157	5785	5,784.97057	0.00000509
		165	5825	5,824.90402	0.00001648
55	24.2V	36	5180	5,179.98271	0.00000334
		44	5220	5,219.90654	0.00001790
		48	5240	5,239.92643	0.00001404
		52	5260	5,259.92639	0.00001399
		60	5300	5,299.95751	0.00000802
		64	5320	5,319.91037	0.00001685
		100	5500	5,499.98107	0.00000344
		116	5580	5,579.95449	0.00000816
		140	5700	5,699.90680	0.00001635
		144	5720	5,719.92864	0.00001248
		149	5745	5,744.92592	0.00001289
		157	5785	5,784.90033	0.00001723
		165	5825	5,824.92836	0.00001230
	19.8V	36	5180	5,179.97224	0.00000536
		44	5220	5,219.98676	0.00000254
		48	5240	5,239.92099	0.00001508
		52	5260	5,259.91025	0.00001706
		60	5300	5,299.99846	0.00000029
		64	5320	5,319.91307	0.00001634
		100	5500	5,499.96204	0.00000690
		116	5580	5,579.92084	0.00001419
		140	5700	5,699.93498	0.00001141
		144	5720	5,719.99659	0.00000060
		149	5745	5,744.90635	0.00001630
		157	5785	5,784.95172	0.00000835
		165	5825	5,824.99951	0.00000008

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Operation Mode	802.11 n_HT40	Test Date	2018.04.30
Temperature	:23	Test By	Henry
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	24.2V	38	5190	5,189.92390	0.00001466
		46	5230	5,229.92215	0.00001489
		54	5270	5,269.98677	0.00000251
		62	5310	5,309.92860	0.00001345
		102	5510	5,509.98905	0.00000199
		110	5550	5,549.96833	0.00000571
		134	5670	5,669.90968	0.00001593
		142	5710	5,709.96381	0.00000634
		151	5755	5,754.90452	0.00001659
		159	5795	5,794.91086	0.00001538
	19.8V	38	5190	5,189.99376	0.00000120
		46	5230	5,229.98054	0.00000372
		54	5270	5,269.96133	0.00000734
		62	5310	5,309.94282	0.00001077
		102	5510	5,509.97475	0.00000458
		110	5550	5,549.92122	0.00001419
		134	5670	5,669.98729	0.00000224
		142	5710	5,709.99911	0.00000016
		151	5755	5,754.92585	0.00001288
		159	5795	5,794.98733	0.00000219

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25	22V	38	5190	5,189.94417	0.00001076
		46	5230	5,229.92548	0.00001425
		54	5270	5,269.94171	0.00001106
		62	5310	5,309.99273	0.00000137
		102	5510	5,509.90672	0.00001693
		110	5550	5,549.97565	0.00000439
		134	5670	5,669.99998	0.00000000
		142	5710	5,709.92139	0.00001377
		151	5755	5,754.94599	0.00000938
		159	5795	5,794.92937	0.00001219
55	24.2V	38	5190	5,189.91552	0.00001628
		46	5230	5,229.94530	0.00001046
		54	5270	5,269.92619	0.00001401
		62	5310	5,309.93497	0.00001225
		102	5510	5,509.99379	0.00000113
		110	5550	5,549.94864	0.00000925
		134	5670	5,669.94023	0.00001054
		142	5710	5,709.93499	0.00001139
		151	5755	5,754.99325	0.00000117
		159	5795	5,794.96013	0.00000688
	19.8V	38	5190	5,189.96963	0.00000585
		46	5230	5,229.93618	0.00001220
		54	5270	5,269.97875	0.00000403
		62	5310	5,309.98683	0.00000248
		102	5510	5,509.94305	0.00001034
		110	5550	5,549.98897	0.00000199
		134	5670	5,669.97568	0.00000429
		142	5710	5,709.99044	0.00000167
		151	5755	5,754.94793	0.00000905
		159	5795	5,794.98249	0.00000302

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14 ANTENNA REQUIREMENT

14.1 Standard Applicable

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.

According to §15.407, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

14.2 Antenna Connected Construction

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

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