

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name: HUAWEI MateBook
Brand Name: HUAWEI
Model No.: BL-W09, BL-W19
Model Difference: For Marketing Purpose
FCC ID: QISBL-WX9
IC: 6369A-BLWX9
Report No.: E2/2017/10016
Issue Date: Mar. 09, 2017
FCC Rule Part: §15.407
IC Rule Part RSS-247 issue 2 Feb. 2017
Prepared for: Huawei Technologies Co., Ltd.
Administration Building, Headquarters of
Huawei Technologies Co., Ltd., Bantian,
Longgang District, Shenzhen China
SGS Taiwan Ltd.
Prepared by: Electronics & Communication Laboratory
No.2, Keji 1st Rd., Guishan District,
Taoyuan City, Taiwan 333



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VERIFICATION OF COMPLIANCE

Applicant: Huawei Technologies Co., Ltd.
Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen China

Product Name: HUAWEI MateBook

Brand Name: HUAWEI

Model No.: BL-W09, BL-W19

Model Difference: For Marketing Purpose

FCC ID: QISBL-WX9

IC: 6369A-BLWX9

File Number: E2/2017/10016

Date of Test: Jan. 04, 2017 ~ Mar. 07, 2017

Date of EUT Received: Jan. 04, 2017

We hereby certify that:

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

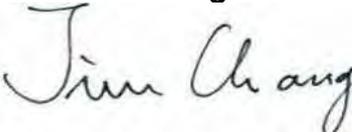
The test results of this report relate only to the tested sample identified in this report.

Test By:  **Date:** Mar. 09, 2017

Jerry Lu / Sr. Engineer

Prepared By:  **Date:** Mar. 09, 2017

Violetta Tang / Clerk

Approved By:  **Date:** Mar. 09, 2017

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
E2/2017/10016	Rev.00	Initial creation of document	Mar. 09, 2017

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1. GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	HUAWEI MateBook	
Brand Name:	HUAWEI	
Model No.:	BL-W09, BL-W19	
Model Difference:	For Marketing Purpose	
Product SW/HW version:	19.50.0.1 / REV: 1.2	
Radio SW/HW version:	19.0 / 19.0	
Test SW Version:	DRTU_03647_1_9_0G	
RF power setting in TEST SW:	DRTU_03647_1_9_0G	
Power Supply:	7.6Vdc from Rechargeable Li-ion Battery	
	Battery:	1. Model No.: HB25B7N4EBC Supplier: Sunwoda 2. Model No.: HB25B7N4EBC Supplier: Desay
	Adapter:	1. Model No.: HW-59C200UHPQ1; Supplier: SALCOMP 2. Model No.: HW-59C200UHPQ1; Supplier: BYD 3. Model No.: HW-200200UP0; Supplier: HUAWEI

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WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.) / (EIRP)	Modulation Technology	Type of Emission
11a	5150~5250	4	11.54dBm (Avg.) / 13.73dBm (EIRP)	OFDM	16M4D1D
	5250~5350	4	10.78dBm (Avg.) / 12.61dBm (EIRP)		16M4D1D
	5470~5725	12	10.49dBm (Avg.) / 12.24dBm (EIRP)		16M4D1D
	5725-5850	5	11.27dBm		16M1D1D
11n / ac_20M	HT / VHT20 5150~5250	4	HT: 11.57dBm (Avg.) / 13.76dBm (EIRP) (Worst Case)	OFDM	17M6D1D
	HT / VHT20 5250~5350	4	HT: 10.78dBm (Avg.) / 12.61dBm (EIRP) (Worst Case)		17M6D1D
	HT / VHT20 5470~5725	11	HT: 10.54dBm (Avg.) / 12.29dBm (EIRP) (Worst Case)		17M7D1D
	HT / VHT20 5725-5850	5	HT: 11.26dBm (Worst Case)		16M9D1D
11n / ac_40M	HT / VHT40 5150~5250	2	HT: 11.07dBm (Avg.) / 13.26dBm (EIRP) (Worst Case)	OFDM	36M2D1D
	HT / VHT40 5250~5350	2	HT: 10.27dBm (Avg.) / 12.10dBm (EIRP) (Worst Case)		36M2D1D
	HT / VHT40 5470~5725	5	HT: 9.96dBm (Avg.) / 11.71dBm (EIRP) (Worst Case)		36M2D1D
	HT / VHT40 5725-5850	2	HT: 10.78dBm (Worst Case)		35M6D1D
11ac_80M	VHT80 5150~5250	1	11.07dBm (Avg.) / 13.26dBm (EIRP)	OFDM	75M1D1D
	VHT80 5250~5350	1	10.25dBm (Avg.) / 12.08dBm (EIRP)		75M1D1D
	VHT80 5470~5725	2	9.93dBm (Avg.) / 11.66dBm (EIRP)		75M2D1D
	VHT80 5725-5850	1	10.78dBm		70M6D1D

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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: 13 – 173.3Mbps 802.11 ac_40MHz: 27 – 400Mbps 802.11 ac_80MHz: 58.5 – 866.7Mbps

Antenna Type	Supplier	Main / Aux	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	Yageo	Main	ANTA0WP11721WLAN1	5150~5250	1.85
				5250~5350	1.63
				5470~5725	1.75
				5725~5850	1.55
		Aux	ANTA0WP11721WLAN2	5150~5250	2.19
				5250~5350	1.83
				5470~5725	1.30
				5725~5850	1.21
PIFA	Speed	Main	F.0G.LS-6004-002-00	5150~5250	1.76
				5250~5350	1.42
				5470~5725	1.66
				5725~5850	1.02
		Aux	F.0G.LS-6004-001-00	5150~5250	1.98
				5250~5350	1.78
				5470~5725	1.27
				5725~5850	0.93

Remark: The device will not operate in 5600~5650MHz band for IC.

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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

FCC KDB 644545 D03 Guidance for IEEE 802.11ac v01

RSS-247 issue 2 Feb. 2017

RSS-Gen issue 4 Nov. 2014

ANSI C63.10:2013

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

1.3 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd.,
Guishan District, Taoyuan City, Taiwan 333 (TAF code 0513)

FCC Registration Numbers are: 735305

Canada Registration Number: 4620A-5.

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 hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.

2.4 Measurement Results Explanation Example

For all conducted test items:

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

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Following shows an offset computation example with cable loss 2dB, and 10dB attenuator (SISO).

SISO mode offset = RF cable loss (dB)+ attenuation factor(dB) =12(dB)

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission & AC Power Line Conducted Emission

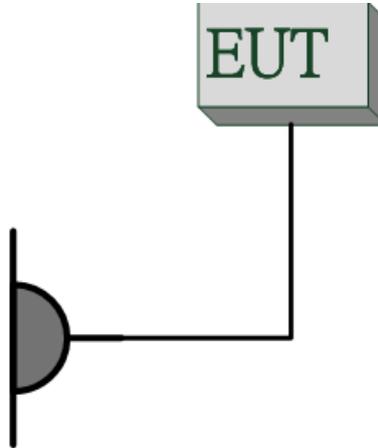


Fig. 2-2 Conducted (Antenna Port) Emission

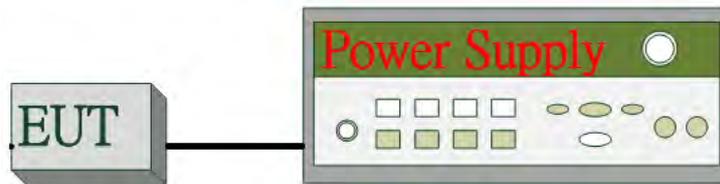


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	DC Power Supply	Agilent	E3640A	MY52410006	N/A	Un-Shielded

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3. SUMMARY OF TEST RESULT

FCC Rules	IC Rules	Description Of Test	Result
§15.207	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.403(i) §15.407(e)	RSS-247 §6.2.1~ 4 (1) RSS-Gen §6.6	26 dB & 6dB & 99% Emission Bandwidth	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Maximum Conducted Output Power	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Power Spectral Density	Compliant
§15.407(b)	RSS-247 §6.2.1~ 4 (2)	Undesirable Radiated Emissions	Compliant
§15.407(c)	RSS-247 §6.4	Transmission in case of Absence of Information	Compliant
§15.407(g)	RSS-Gen §6.11	Frequency Stability	Compliant
§15.203 §15.407(a)	RSS- Gen §6.7 RSS- Gen §8.3	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:

4 channels are provided for 802.11a, 802.11n_HT20, 802.11ac_VHT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
42	5210 MHz

Operated band in 5250 MHz ~5350 MHz:

4 channels are provided for 802.11a, 802.11n_HT20, 802.11ac_VHT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
58	5290 MHz

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Operated band in 5470 MHz ~5725 MHz:

11 channels are provided for 802.11a, 802.11n_HT20, 802.11ac_VHT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz		

5 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz		

2 channels are provided for 802.11ac_VHT80 (FCC)

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530 MHz	122	5610 MHz

1 channel is provided for 802.11ac_VHT80 (IC)

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530 MHz		

Operated band in 5725 MHz ~5850 MHz:

5 channels are provided for 802.11a, 802.11n_HT20, 802.11ac_VHT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz		

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
155	5775 MHz

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4.2 The Worst Test Modes and Channel Details

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

Note: Pre-scanned was done on Antenna Main and Antenna Aux. Antenna Aux results higher emission at 5150~5350MHz, and Antenna Main results higher emission at 5470~5825MHz. Therefore, the completed set of measurement was done on Antenna Main / Aux to be presented on this test report.

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	1	AUX
802.11a	5260~5320	52 to 64	52,60,64	OFDM	1	AUX
802.11a	5500~5720	100 to 140	100,116,140	OFDM	1	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	1	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	1	AUX
802.11n_HT20				OFDM	MCS0	AUX
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	AUX
802.11ac_VHT80	5210	42	42	OFDM	MCS0	AUX
802.11a	5260~5320	52 to 64	52,60,64	OFDM	1	AUX
802.11n_HT20				OFDM	MCS0	AUX
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS0	AUX
802.11ac_VHT80	5290	58	58	OFDM	MCS0	AUX

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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	1	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5510~5710	102 to 142	102,110,134	OFDM	MCS0	MAIN
802.11ac_VHT80(FCC)	5530~5610	106 to 122	106,122	OFDM	MCS0	MAIN
802.11ac_VHT80(IC)	5530~5530	106	106	OFDM	MCS0	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	1	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS0	MAIN
802.11ac_VHT80	5775	155	155	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 H 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	1	AUX
802.11n_HT20				OFDM	MCS0	AUX
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	AUX
802.11ac_VHT80	5210	42	42	OFDM	MCS0	AUX
802.11a	5260~5320	52 to 64	52,60,64	OFDM	1	AUX
802.11n_HT20				OFDM	MCS0	AUX
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS0	AUX
802.11ac_VHT80	5290	58	58	OFDM	MCS0	AUX
802.11a	5500~5700	100 to 140	100,116,140	OFDM	1	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5510~5670	102 to 134	102,110,134	OFDM	MCS0	MAIN
802.11ac_VHT80 (FCC)	5530~5610	106 to 122	106,122	OFDM	MCS0	MAIN
802.11ac_VHT80 (IC)	5530~5530	106	106	OFDM	MCS0	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	1	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS0	MAIN
802.11ac_VHT80	5775	155	155	OFDM	MCS0	MAIN

Remark: Until further notice, this device will not be capable of transmitting in the band 5600-5650 MHz. This restriction is for the protection of Environment Canada's weather radars operating in this band.

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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

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

6.2. Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI 7	100950	12/12/2016	12/11/2017
Coaxial Cables	N/A	N30N30-1042-150cm	N/A	08/30/2016	08/29/2017
LISN	Schwarzbeck	NSLK 8127	8127-648	03/11/2016	03/10/2017
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

6.3. EUT Setup

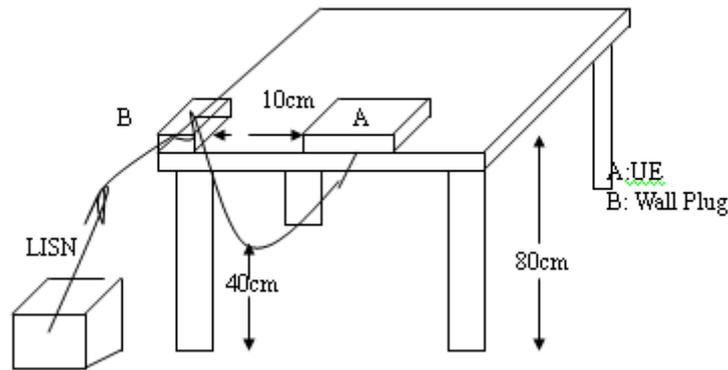
- The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
- The LISN was connected with 120Vac/60Hz 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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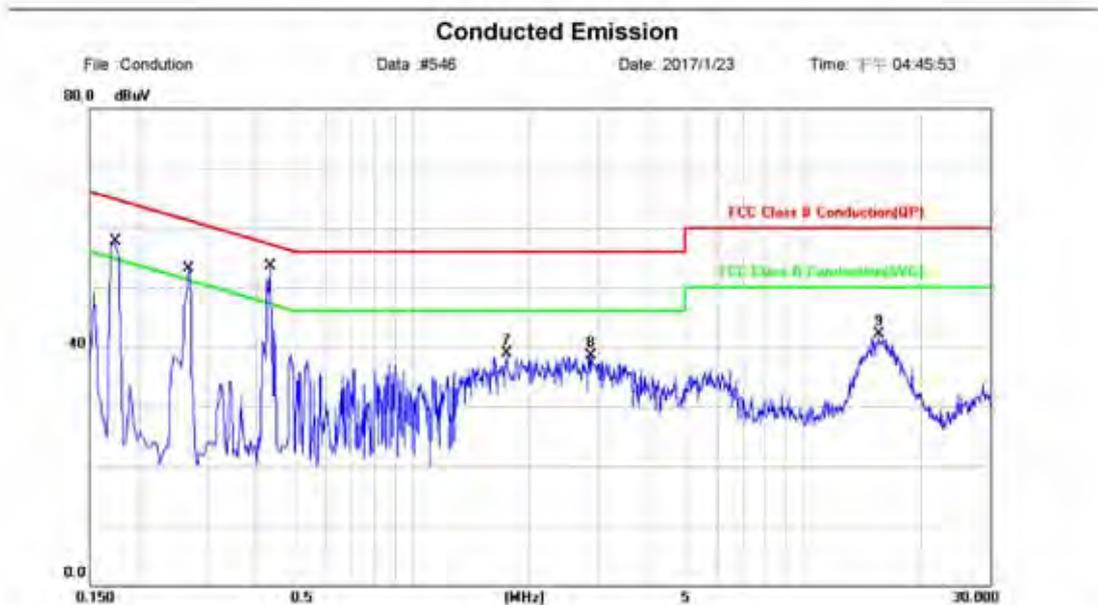
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode (HW-59C200UHPQ1)			Test Date:	Jan. 23, 2017
Temperature:	23	Humidity:	65 %	Test By:	Aken
				Phase:	L1 / N

Site : Conduction Room Phase: L1 Temperature: 23 °C
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 65 %
 Mode: 和碩HW-59C200UHPQ1
 Note:



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	dB	ment	dBuV	dB	Defector	Comment
1	*	0.1740	41.60	19.72	61.32	64.77	-3.45	QP	
2		0.1740	24.61	19.72	44.33	54.77	-10.44	AVG	
3		0.2700	33.60	19.76	53.36	61.12	-7.76	QP	
4		0.2700	14.80	19.76	34.56	51.12	-16.56	AVG	
5		0.4340	26.30	19.86	46.16	57.18	-11.02	QP	
6		0.4340	6.70	19.86	26.56	47.18	-20.62	AVG	
7		1.7460	19.03	19.92	38.95	56.00	-17.05	peak	
8		2.8740	18.57	19.94	38.51	56.00	-17.49	peak	
9		15.5900	21.76	20.32	42.08	60.00	-17.92	peak	

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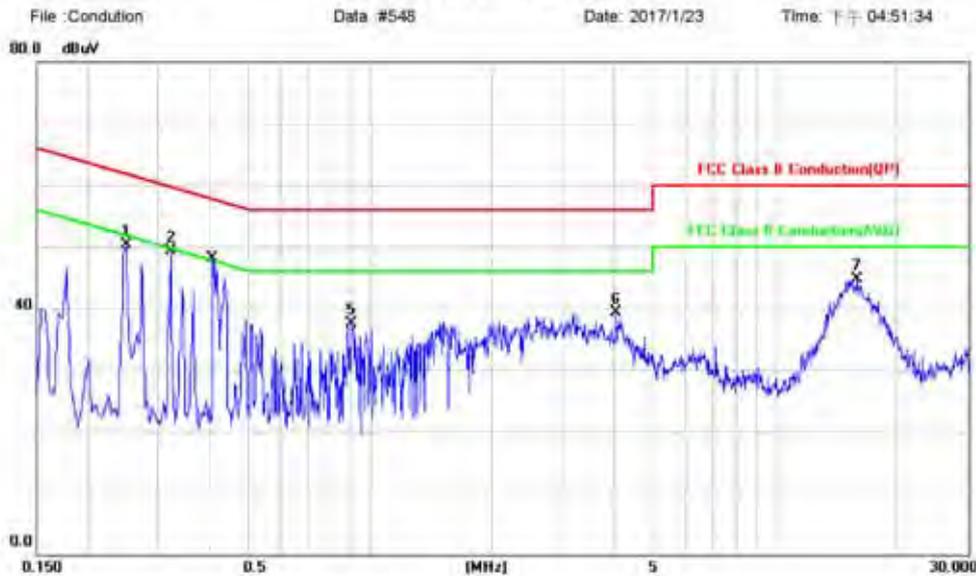
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Site : Conduction Room Phase: **N** Temperature: 23 °C
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 65 %
 Mode: 和碩HW-59C200UHPQ1
 Note:

Conducted Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2500	30.60	19.75	50.35	61.76	-11.41	peak	
2	*	0.3220	29.46	19.79	49.25	59.66	-10.41	peak	
3		0.4100	24.90	19.85	44.75	57.65	-12.90	QP	
4		0.4100	7.90	19.85	27.75	47.65	-19.90	AVG	
5		0.9020	17.66	19.92	37.58	56.00	-18.42	peak	
6		4.0660	19.41	19.97	39.38	56.00	-16.62	peak	
7		15.9220	24.38	20.40	44.78	60.00	-15.22	peak	

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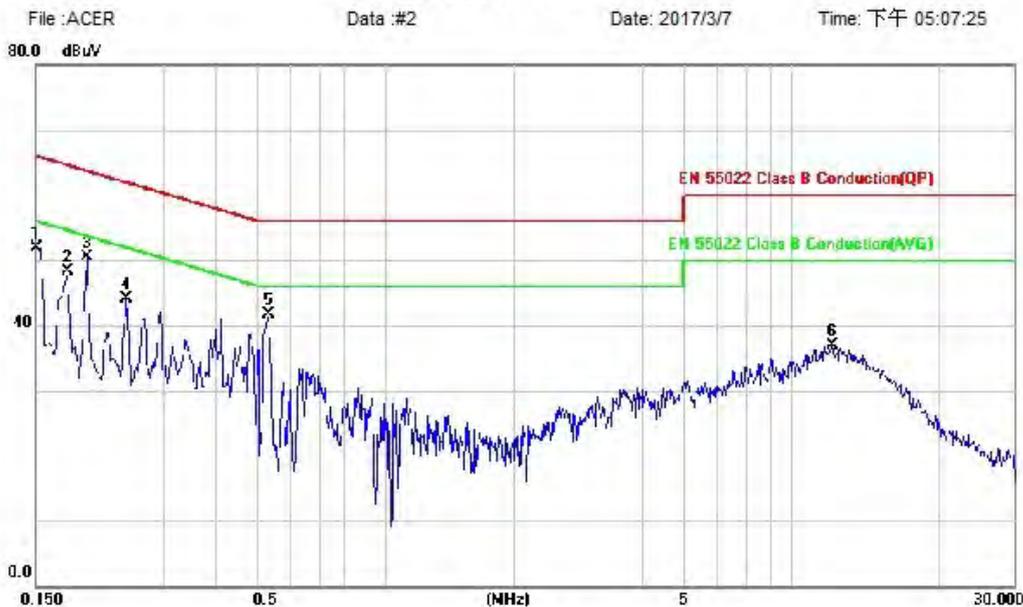
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode (HW-200200CP0)			Test Date:	Mar. 07, 2017
Temperature:	22	Humidity:	56 %	Test By:	Aken
				Phase:	L1 / N

Site : Conduction Room	Phase: L1	Temperature: 22 °C
Limit: EN 55022 Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 56 %
Mode:		
Note:		

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1500	51.61	0.38	51.99	66.00	-14.01	peak	
2		0.1780	47.95	0.39	48.34	64.58	-16.24	peak	
3	*	0.1980	50.08	0.39	50.47	63.69	-13.22	peak	
4		0.2460	43.64	0.39	44.03	61.89	-17.86	peak	
5		0.5300	41.30	0.40	41.70	56.00	-14.30	peak	
6		11.2180	36.30	0.66	36.96	60.00	-23.04	peak	

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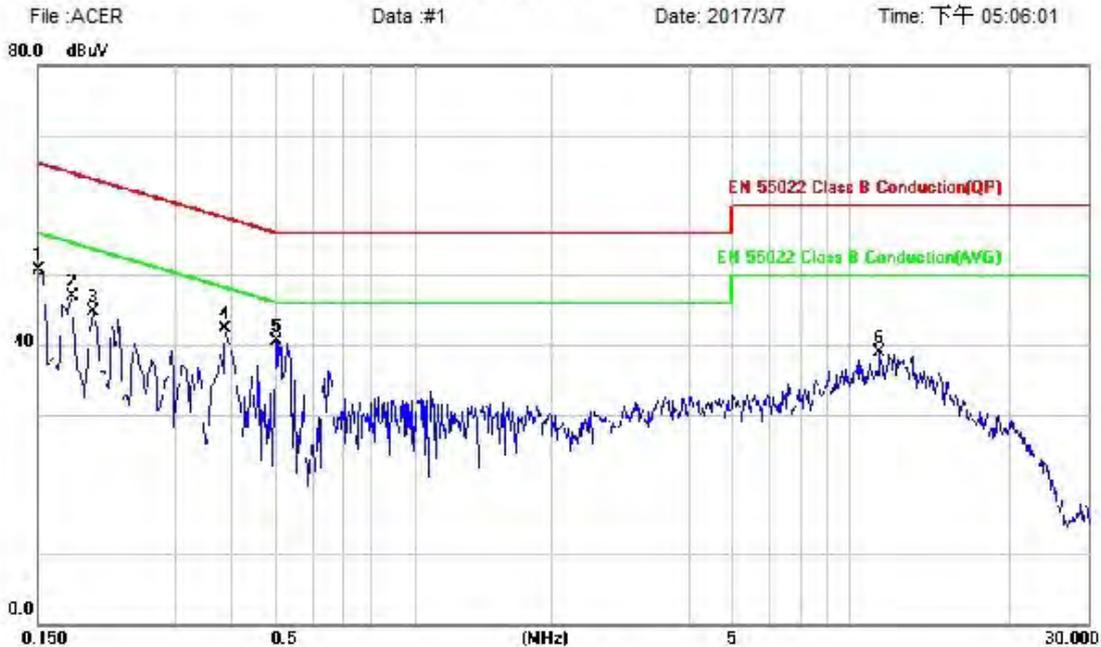
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Site : Conduction Room Phase: **N** Temperature: 22 °C
 Limit: EN 55022 Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 56 %
 Mode:
 Note:

Conducted Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1500	50.28	0.38	50.66	66.00	-15.34	peak	
2		0.1780	46.60	0.39	46.99	64.58	-17.59	peak	
3		0.1980	44.37	0.39	44.76	63.69	-18.93	peak	
4		0.3860	42.00	0.39	42.39	58.15	-15.76	peak	
5		0.5020	40.07	0.40	40.47	56.00	-15.53	peak	
6		10.4740	38.31	0.65	38.96	60.00	-21.04	peak	

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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)
802.11a	94.83	0.23
802.11n_20	95.59	0.20
802.11n_40	84.38	0.74
802.11ac_80	83.67	0.77

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9483) = 0.23$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9559) = 0.2$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.8438) = 0.74$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.8367) = 0.77$$

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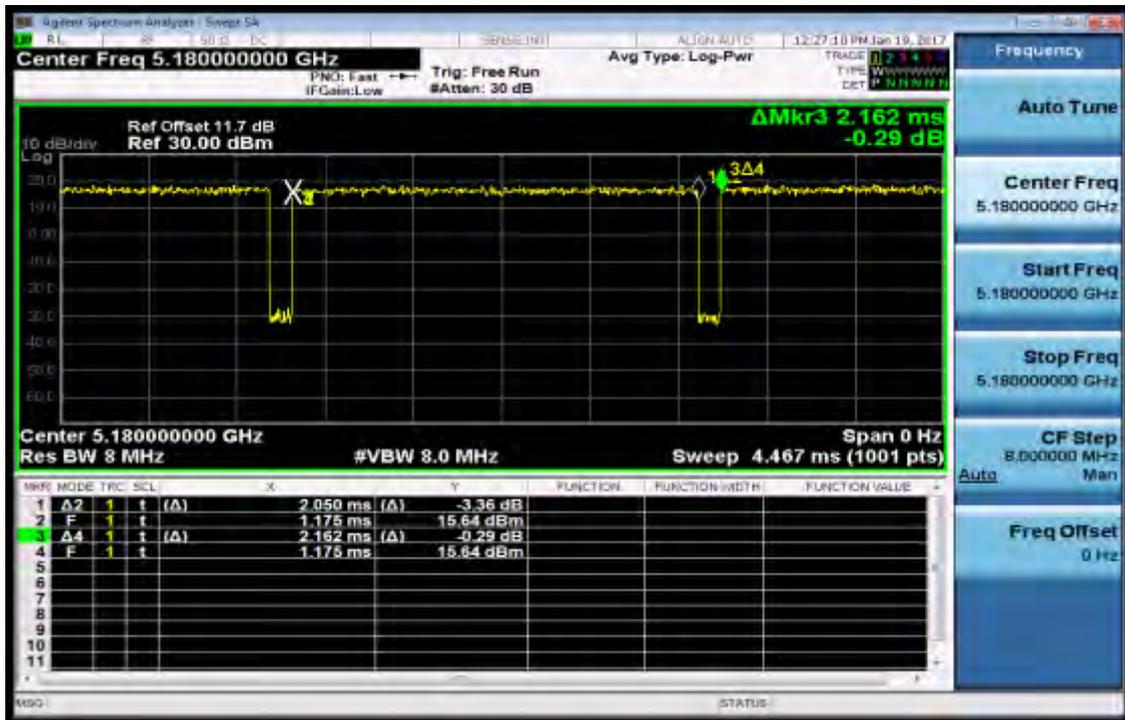
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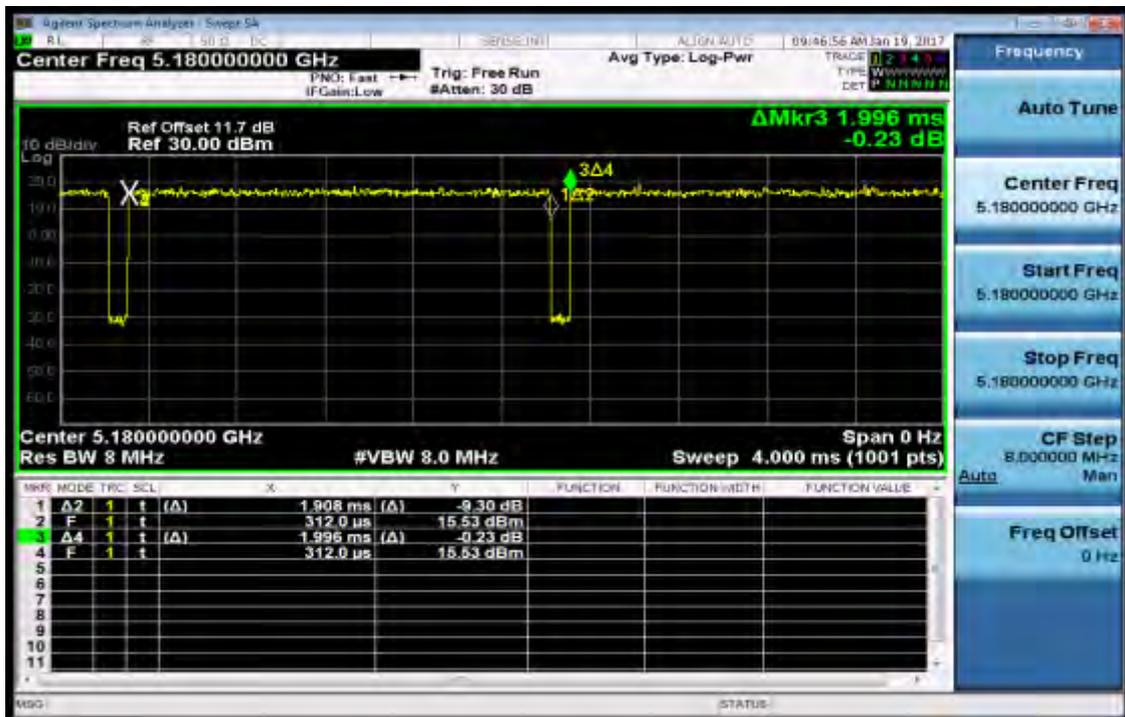
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DUTY CYCLE TEST SIGNAL Measurement Result 802.11a



802.11n HT20



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8. 26dB & 6dB & 99% 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.

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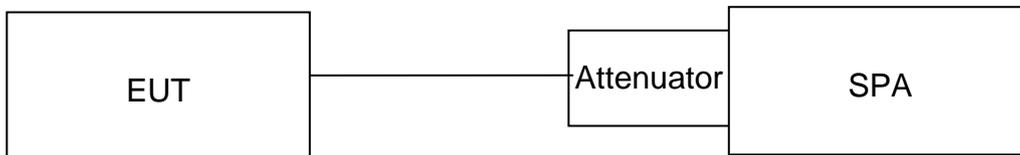
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8.3 Measurement Equipment Used

Conducted Emission Test Site					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
Power Meter	Anritsu	ML2496A	1326001	06/23/2016	06/22/2017
Power Sensor	Anritsu	MA2411B	1315048	06/23/2016	06/22/2017
Power Sensor	Anritsu	MA2411B	1315049	06/23/2016	06/22/2017
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2016	12/11/2017
DC Block	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2016	05/03/2017

8.4 Test Set-up



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8.5 Measurement Result 26dB Bandwidth

802.11a

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	22.89	13.596
5220	22.52	13.526
5240	22.00	13.424
5260	22.09	13.442
5300	22.33	13.489
5320	22.22	13.467
5500	23.15	13.646
5580	23.35	13.683
5700	22.84	13.587

802.11n_HT20

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	23.12	13.640
5220	22.16	13.456
5240	22.90	13.598
5260	23.35	13.683
5300	22.89	13.596
5320	22.78	13.576
5500	22.04	13.432
5580	22.90	13.598
5700	23.13	13.642

802.11n_HT40

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	44.29	16.463
5230	44.03	16.437
5270	43.45	16.380
5310	43.67	16.402
5510	44.39	16.473
5550	44.93	16.525
5670	44.20	16.454

802.11ac_VHT80

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	83.06	19.194
5290	82.66	19.173
5530	85.02	19.295
5610	83.70	19.227

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99% Bandwidth

802.11a

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.343	12.133
5220	16.387	12.145
5240	16.408	12.151
5260	16.402	12.149
5300	16.444	12.160
5320	16.434	12.157
5500	16.371	12.141
5580	16.360	12.138
5700	16.324	12.128

802.11n_HT20

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	17.634	12.464
5220	17.627	12.462
5240	17.578	12.450
5260	17.645	12.466
5300	17.622	12.461
5320	17.646	12.466
5500	17.679	12.475
5580	17.630	12.463
5700	17.637	12.464

802.11n_HT40

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	36.171	15.584
5230	36.228	15.590
5270	36.129	15.579
5310	36.204	15.588
5510	36.143	15.580
5550	36.205	15.588
5670	36.032	15.567

802.11ac_VHT80

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	75.141	18.759
5290	75.140	18.759
5530	75.160	18.760

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

802.11 a

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.06	11.778
5785	13.84	11.411
5825	15.09	11.787

802.11n_HT20

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	13.85	11.414
5785	13.88	11.424
5825	15.97	12.033

802.11n_HT40

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.08	15.451
5795	33.83	15.293

802.11 ac _VHT80

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	72.59	18.609

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6dB Bandwidth (5725 MHz~ 5850 MHz) measure with Average detector for IC

802.11a

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.11	12.071
5785	14.88	11.726
5825	15.79	11.984

802.11n_HT20

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.88	12.274
5785	16.62	12.206
5825	14.42	11.590

802.11n_HT40

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	33.16	15.206
5795	35.61	15.516

802.11ac_VHT80

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	70.57	18.486

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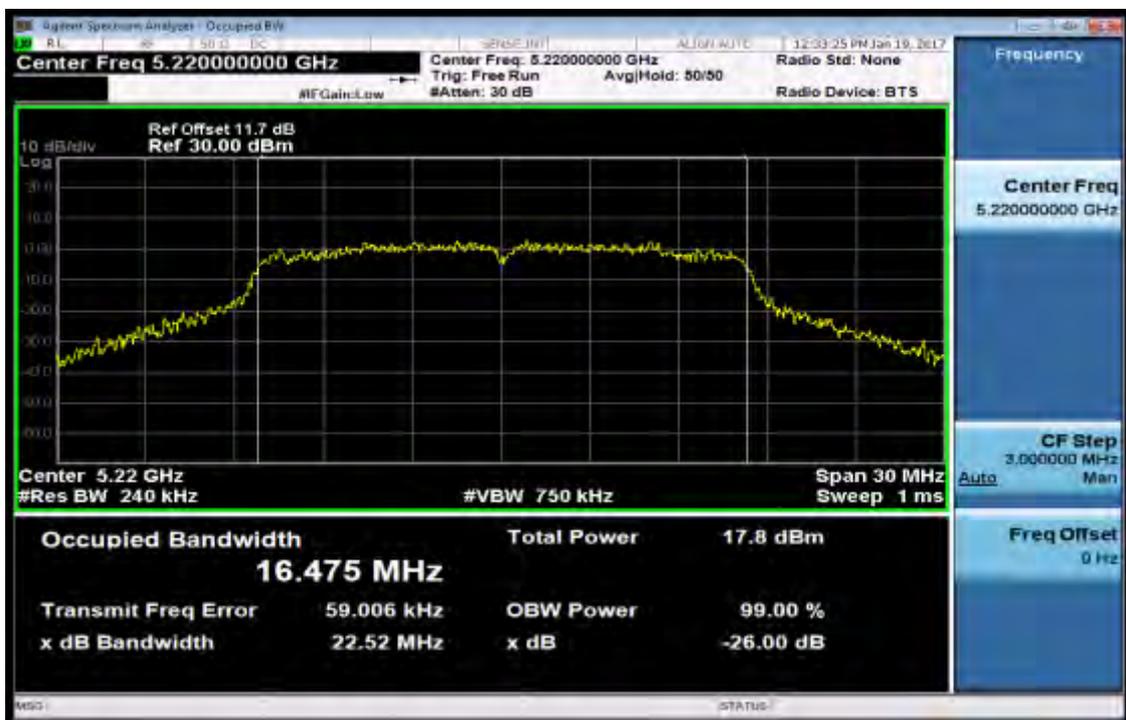
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802.11a, 5150~5250 MHz
26dB Band Width Test Data CH-Low (5180MHz)



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



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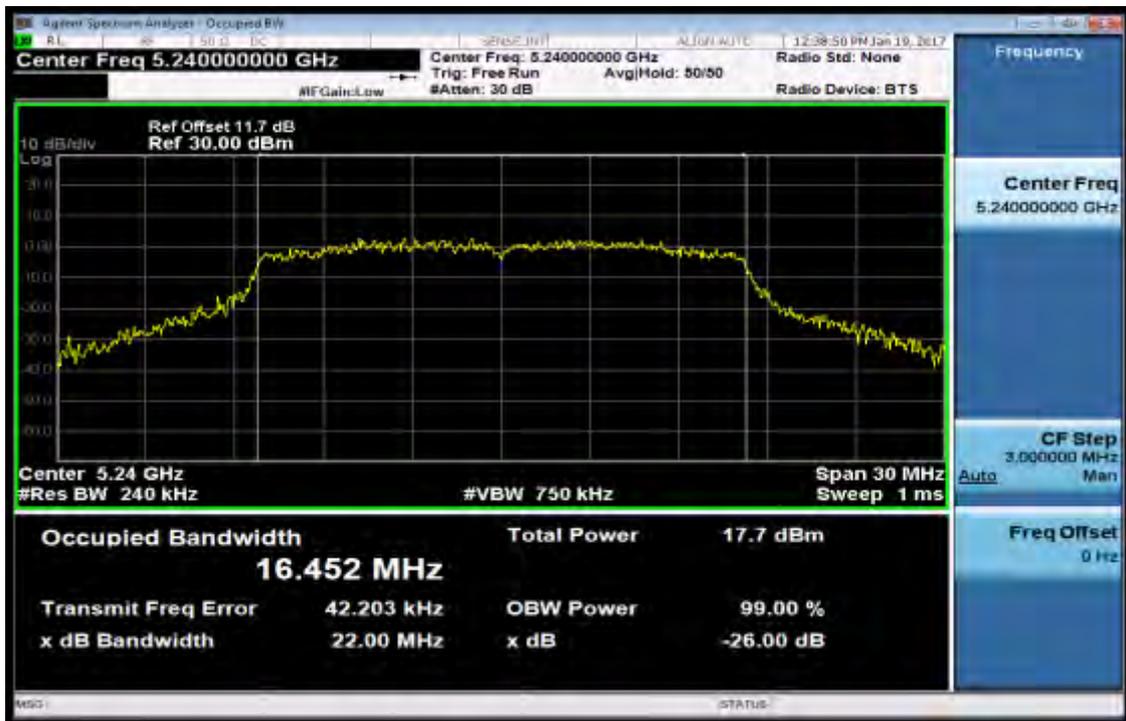
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26dB Band Width Test Data CH-High (5240MHz)



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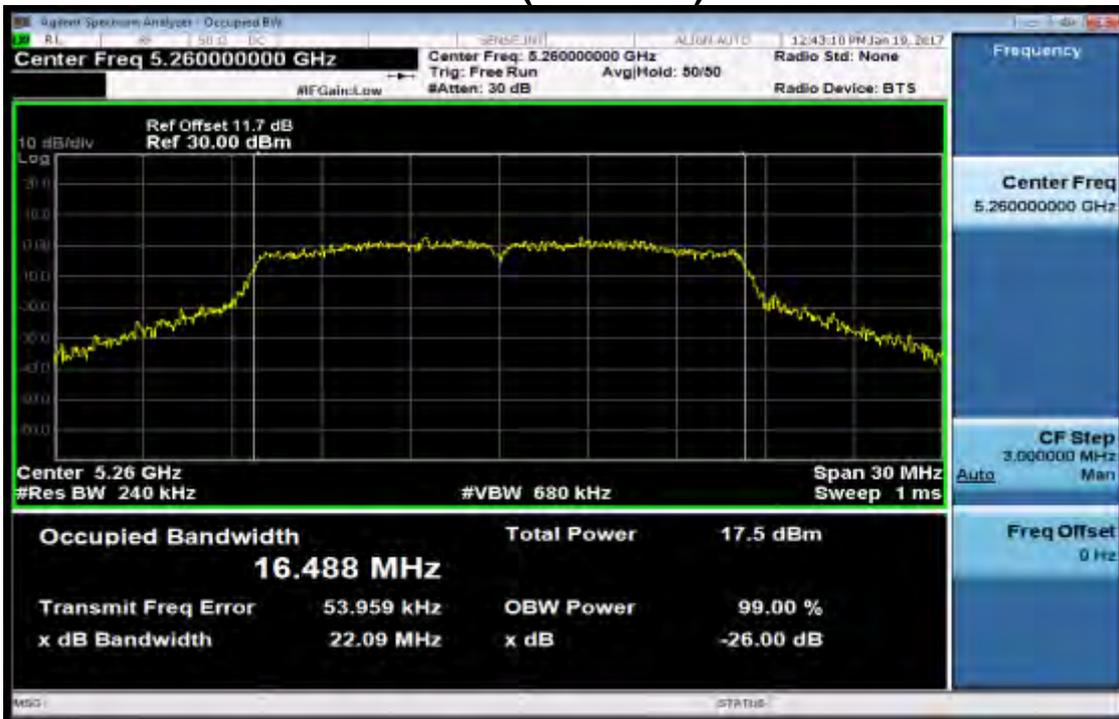
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802.11a, 5250~5350 MHz
26dB Band Width Test Data CH-Low (5260MHz)



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



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



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802.11a, 5470~5725 MHz
26dB Band Width Test Data CH-Low (5500MHz)



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



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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)



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



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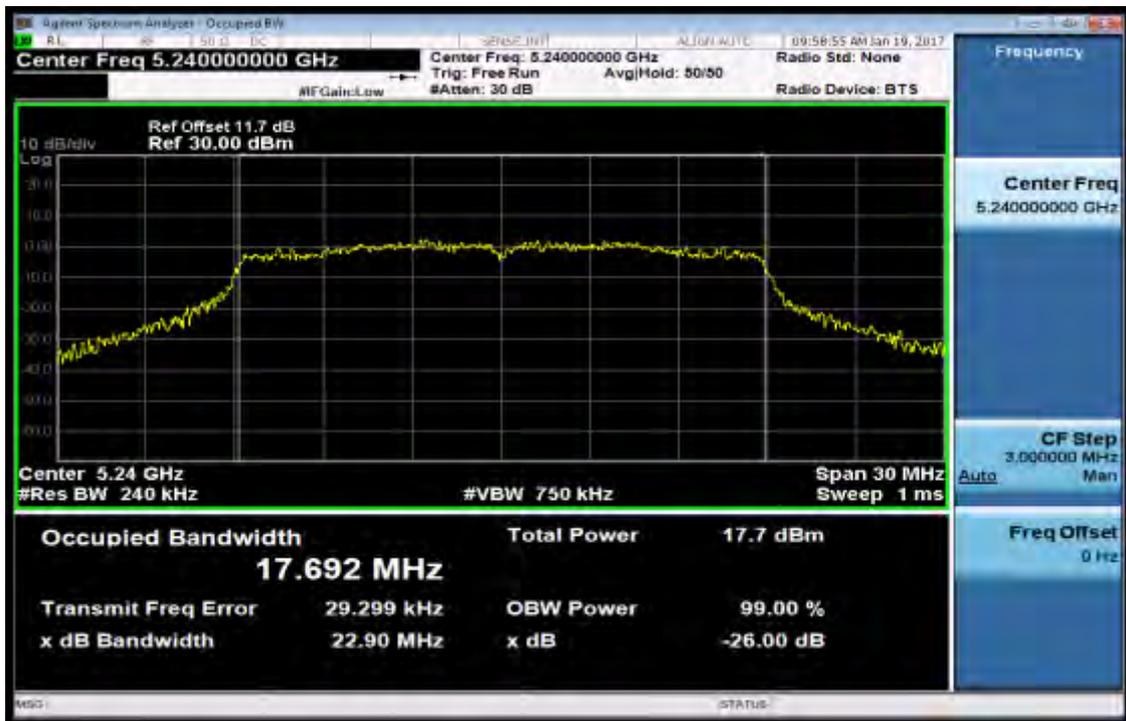
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26dB Band Width Test Data CH-High (5240 MHz)



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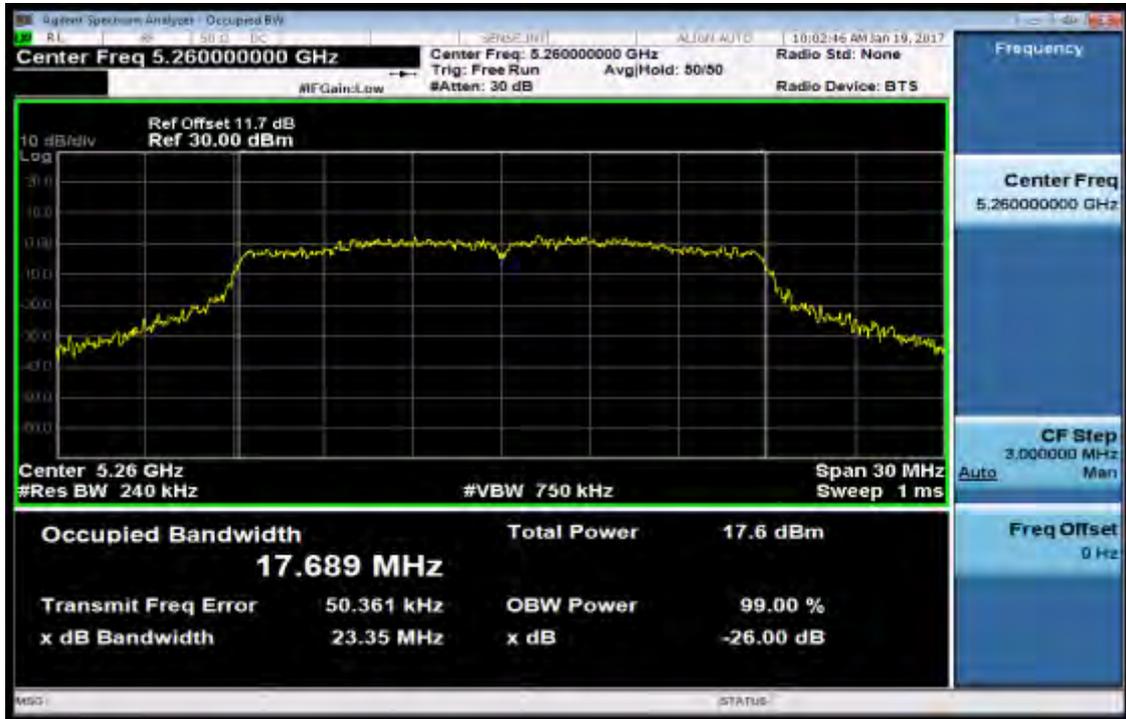
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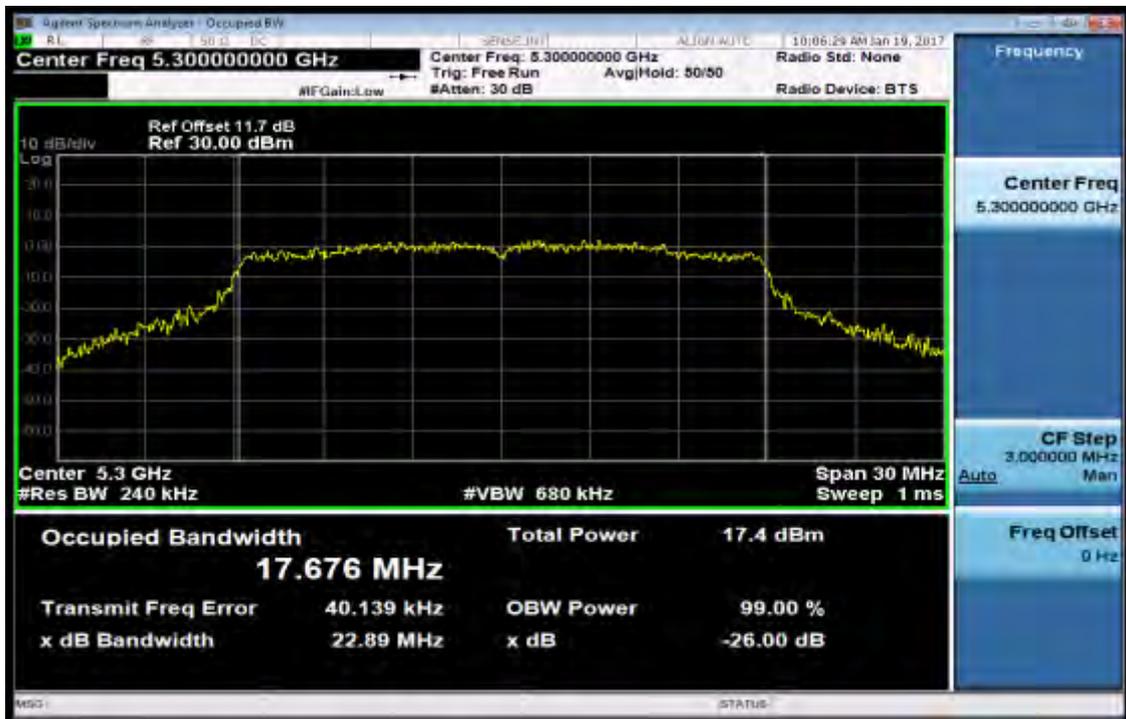
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802.11n HT20, 5250~5350 MHz 26dB Band Width Test Data CH-Low (5260 MHz)



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



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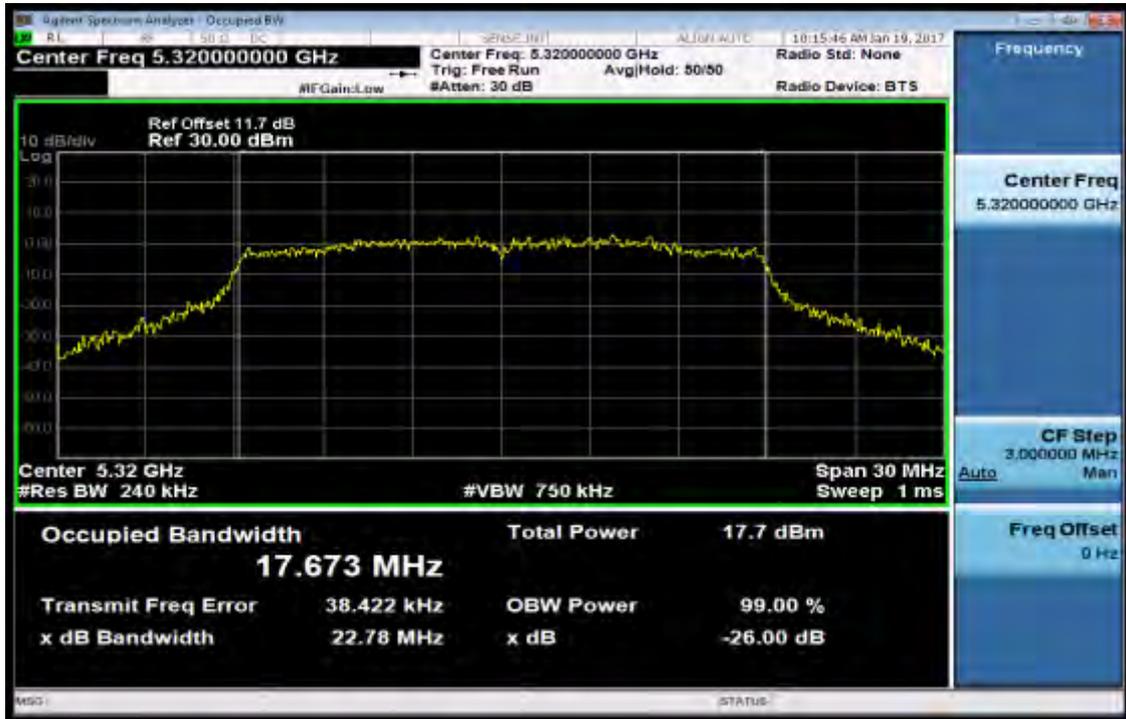
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26dB Band Width Test Data CH-High (5320 MHz)



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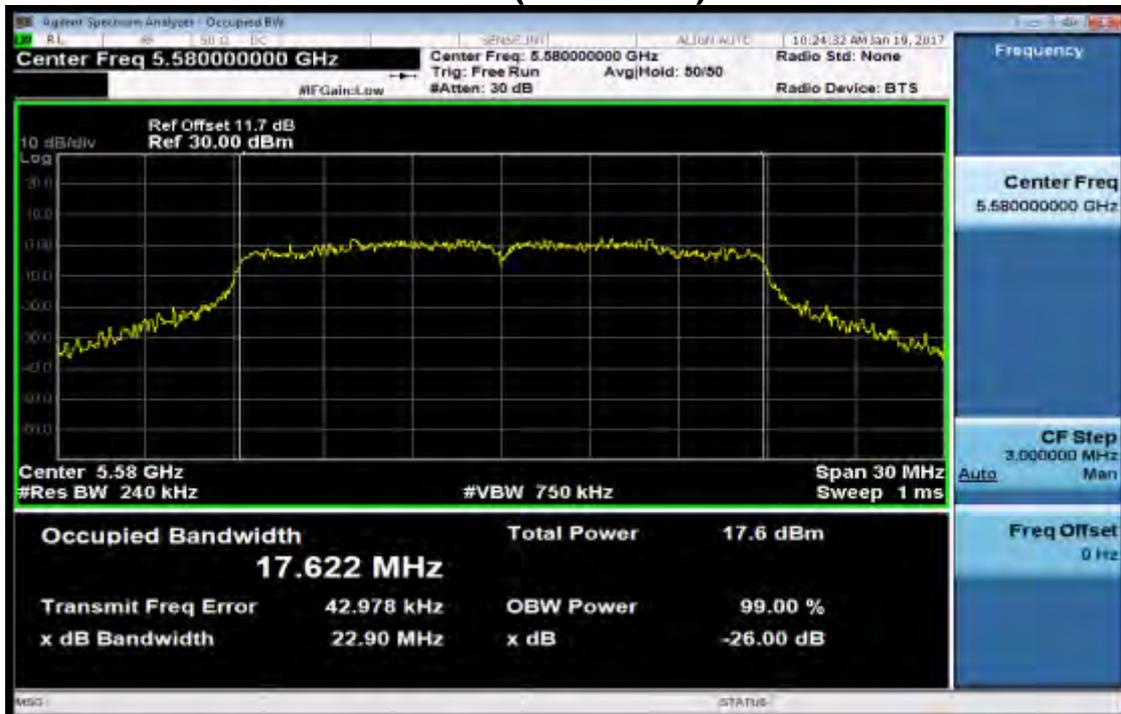
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802.11n HT20, 5470~5725 MHz 26dB Band Width Test Data CH-Low (5500 MHz)



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



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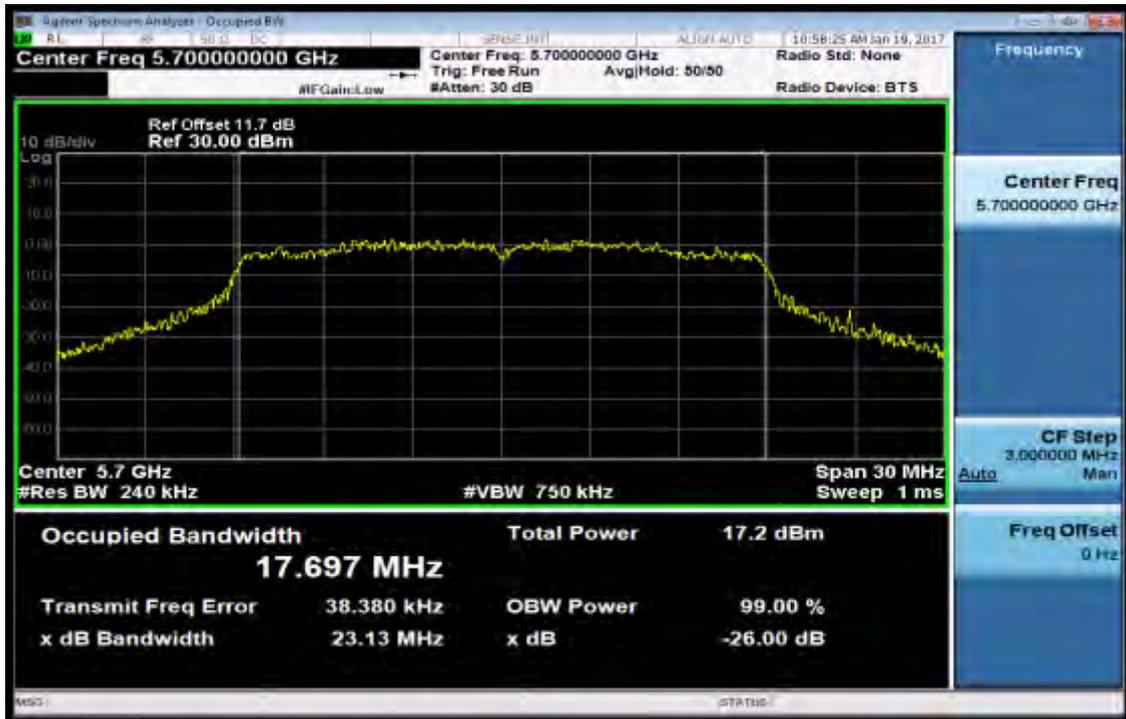
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26dB Band Width Test Data CH-High (5700 MHz)



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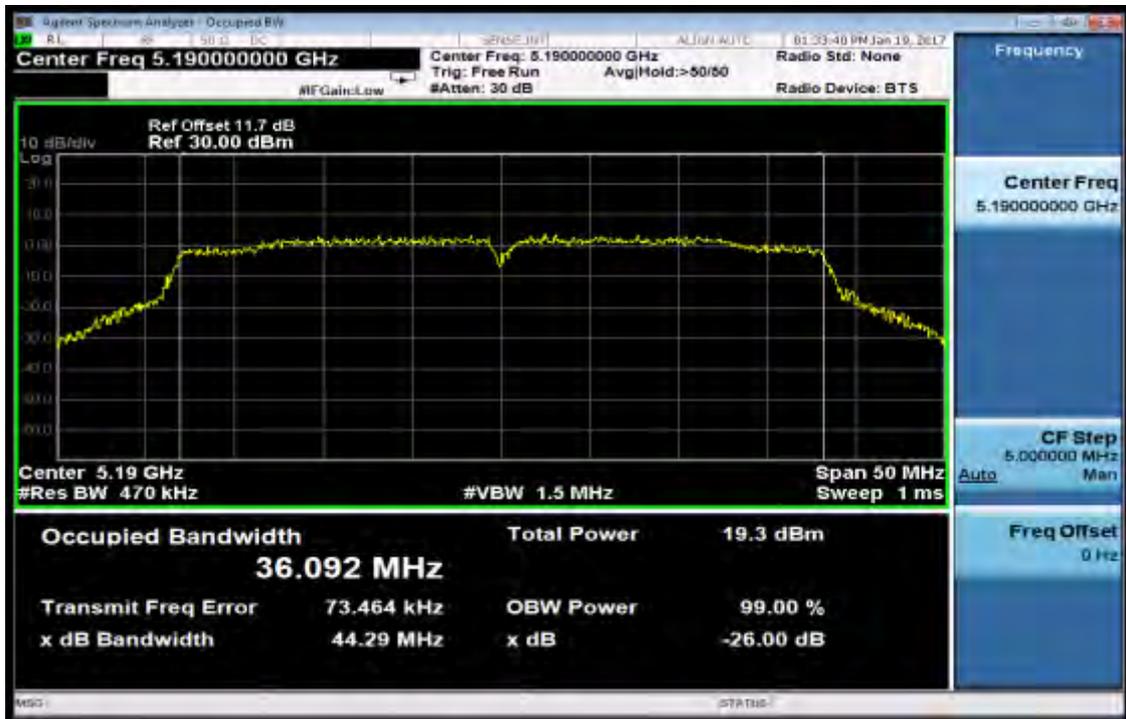
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802.11n HT40, 5150~5250 MHz 26dB Band Width Test Data CH-Low (5190 MHz)



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



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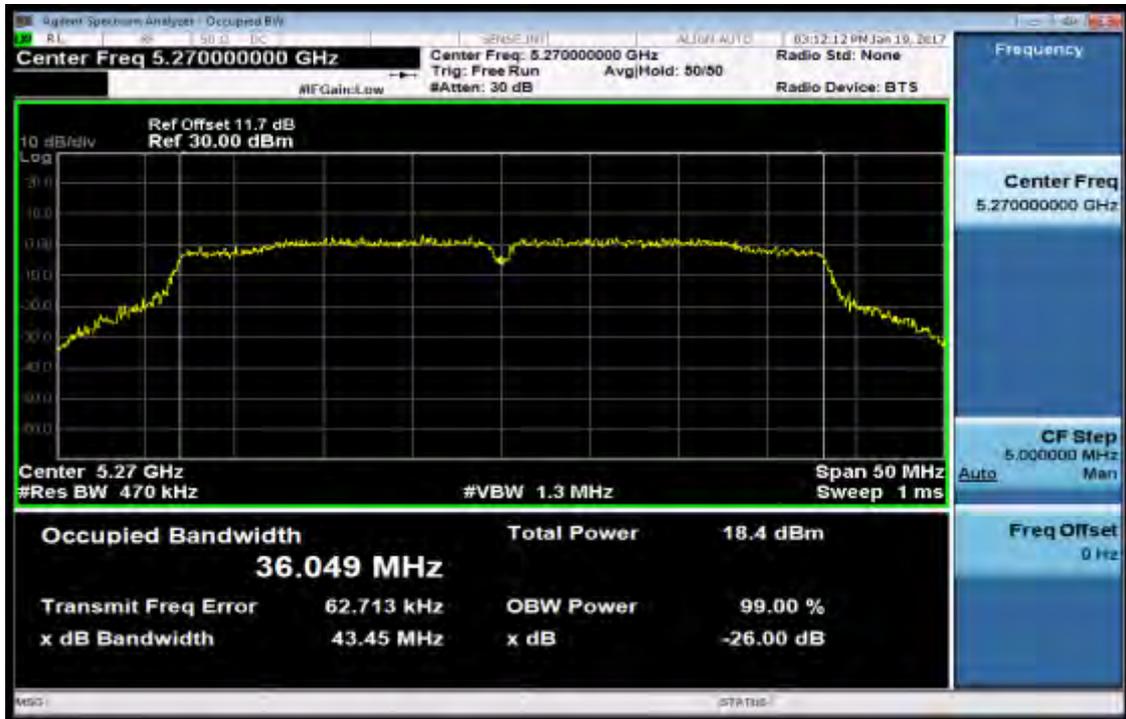
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802.11n HT40, 5250~5350 MHz
26dB Band Width Test Data CH-Low (5270 MHz)



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



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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-Mid (5550 MHz)



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



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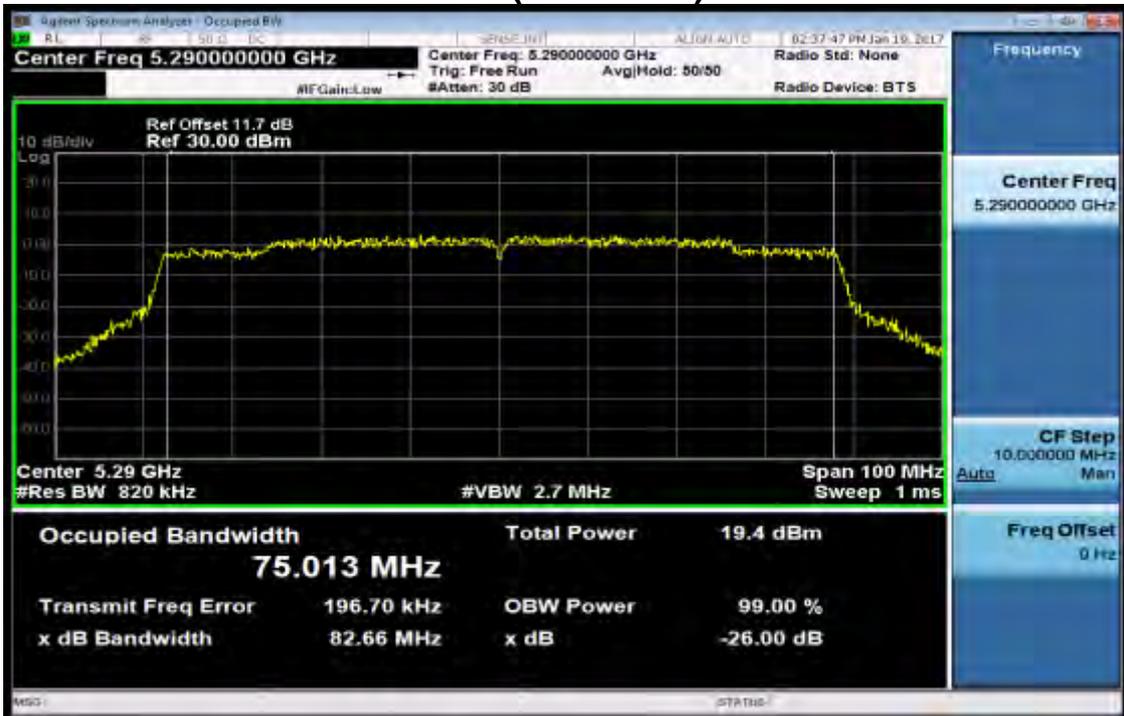
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**802.11ac VHT80, 5150~5250 MHz
26dB Band Width Test Data CH-Mid (5210 MHz)**



**802.11ac VHT80, 5250~5350 MHz
26dB Band Width Test Data CH-Mid (5290 MHz)**



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802.11ac VHT80, 5470~5725 MHz
26dB Band Width Test Data CH-Low (5530 MHz)



802.11ac VHT80, 5470~5725 MHz
26dB Band Width Test Data CH-High (5610 MHz)



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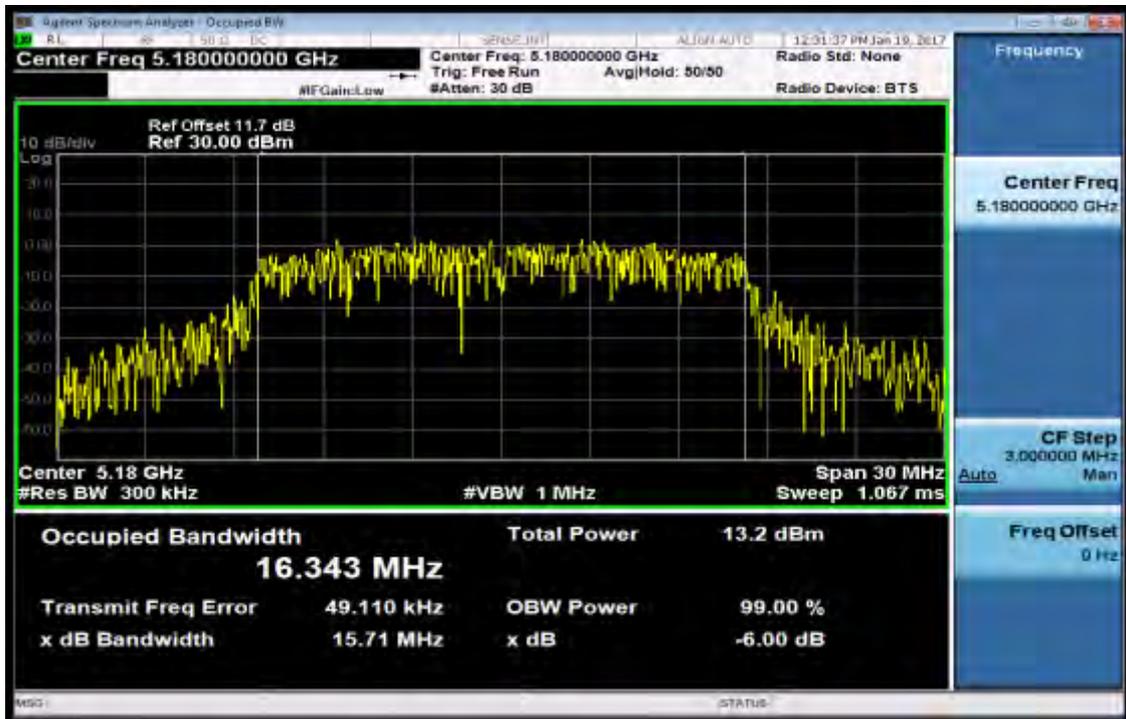
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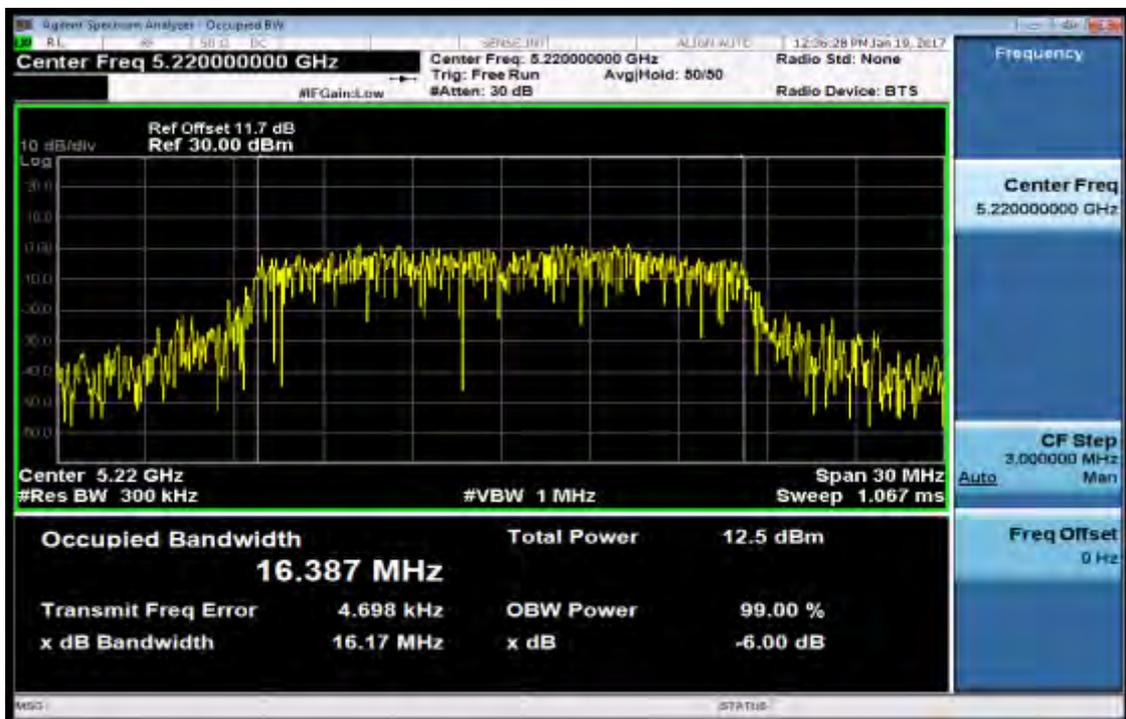
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802.11a, 5150~5250 MHz
99% Band Width Test Data CH-Low (5180MHz)



99% Band Width Test Data CH-Mid (5220MHz)



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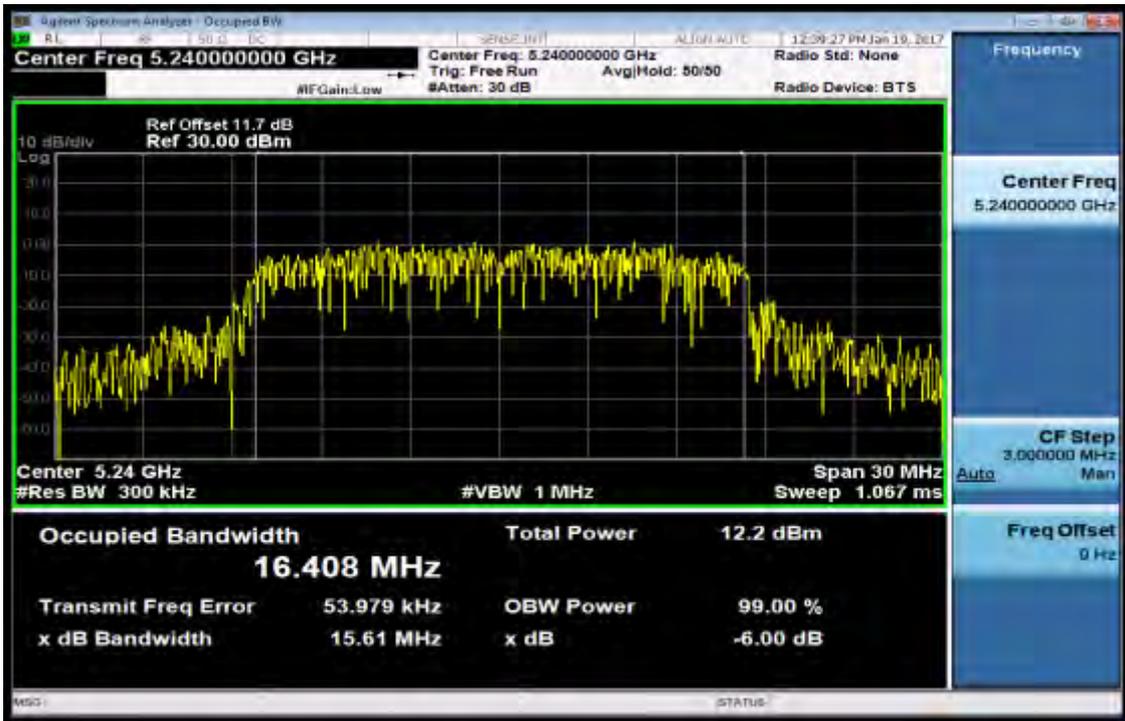
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Member of SGS Group

99% Band Width Test Data CH-High (5240MHz)



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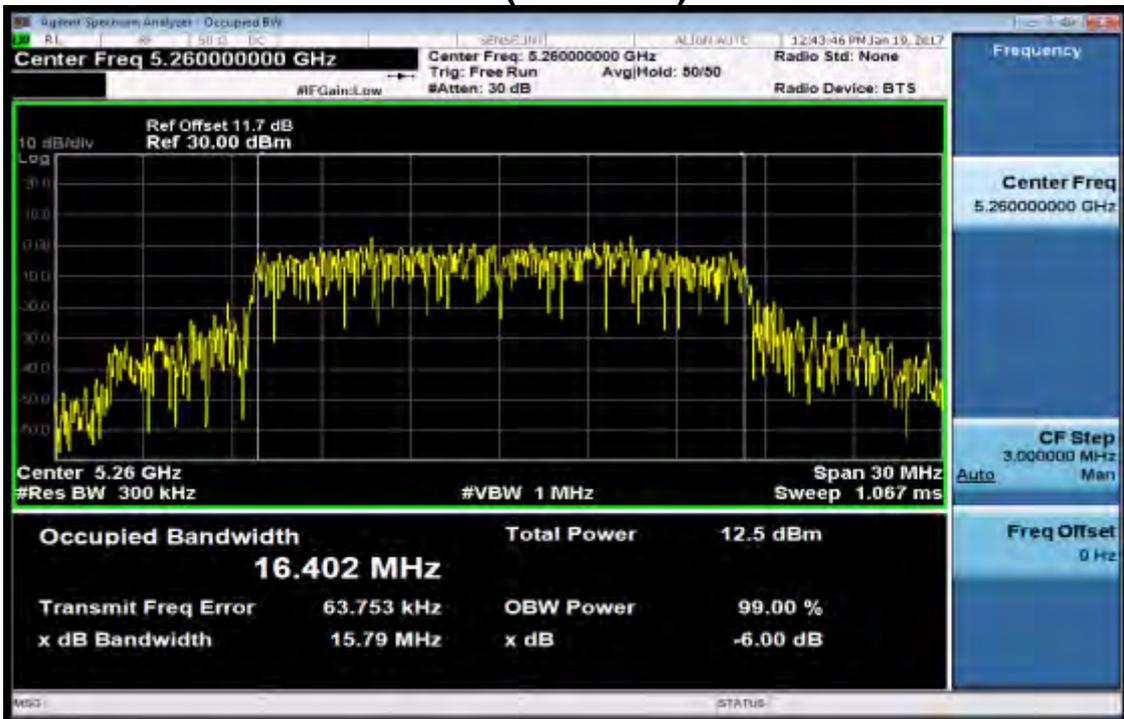
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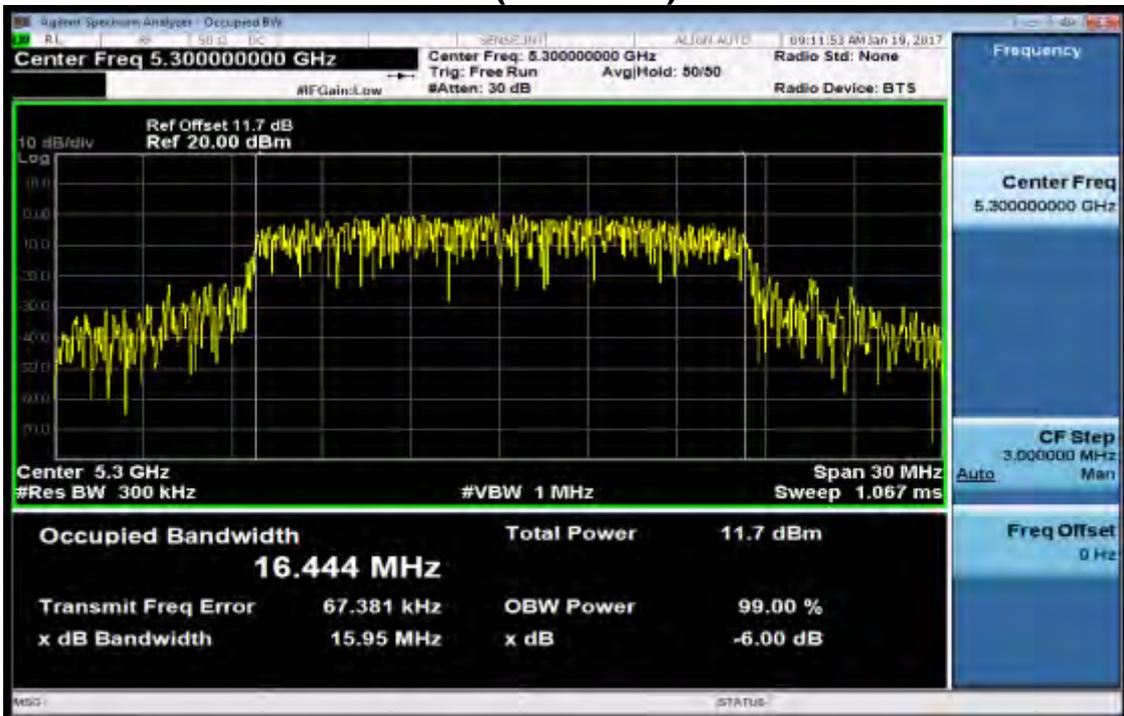
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802.11a, 5250~5350 MHz
99% Band Width Test Data CH-Low (5260MHz)



99% Band Width Test Data CH-Mid (5300MHz)



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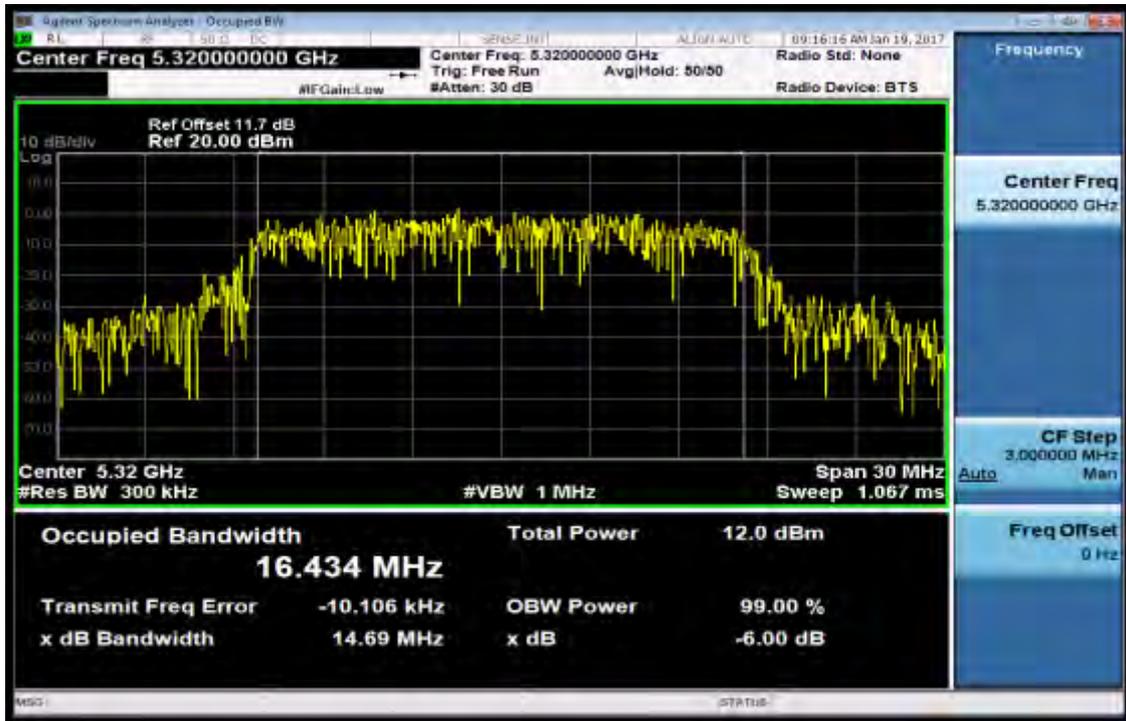
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99% Band Width Test Data CH-High (5320MHz)



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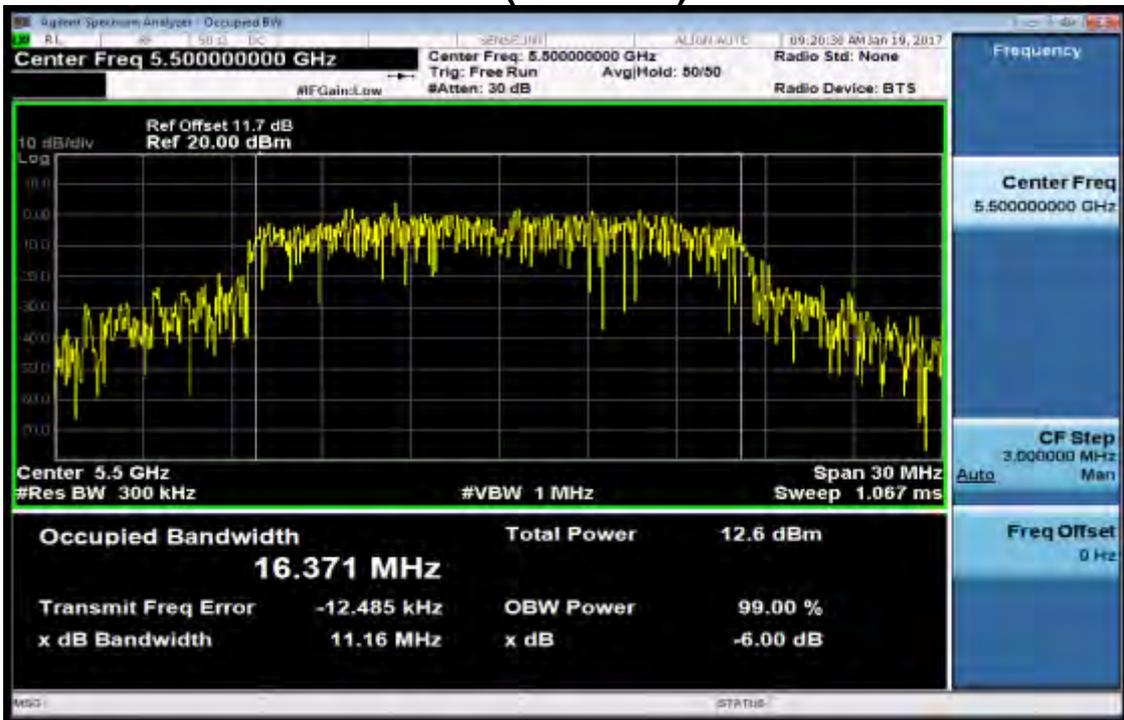
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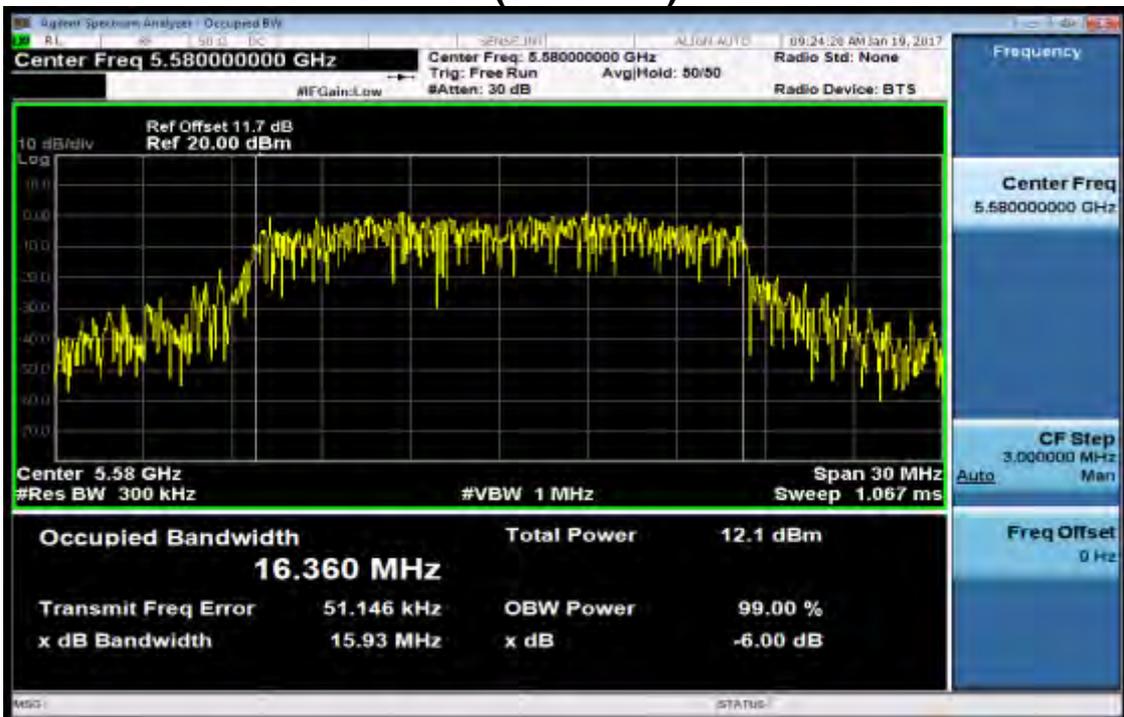
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802.11a, 5470~5725 MHz
99% Band Width Test Data CH-Low (5500MHz)



99% Band Width Test Data CH-Mid (5580MHz)



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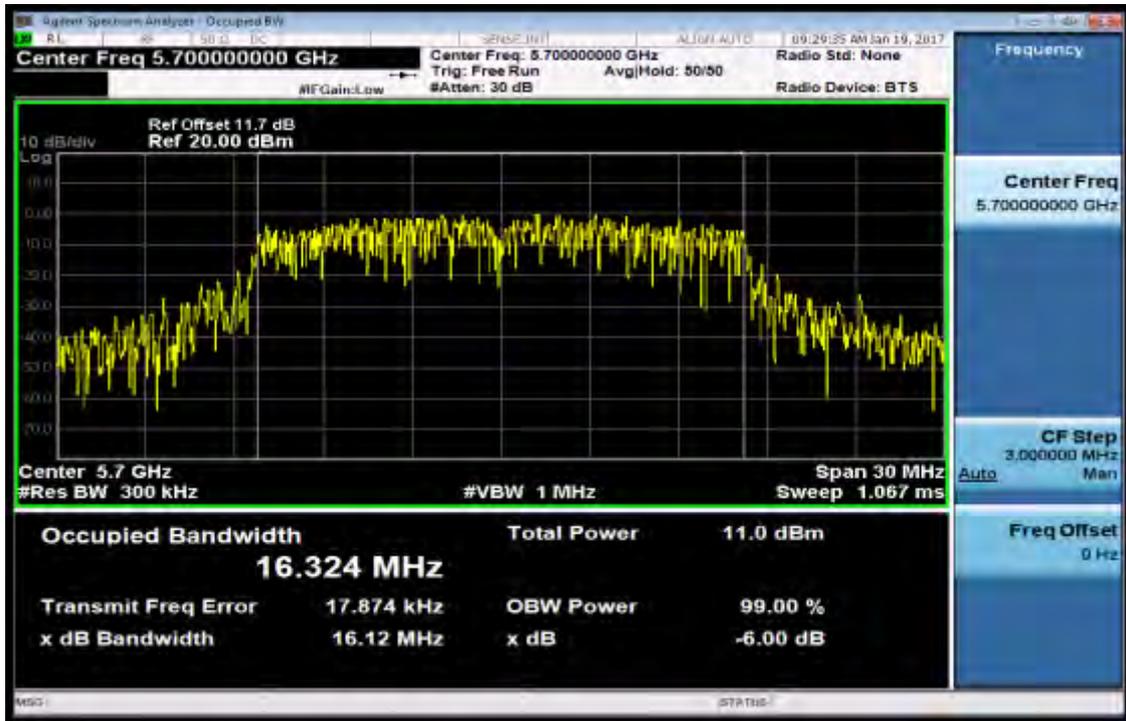
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99% Band Width Test Data CH-High (5700MHz)



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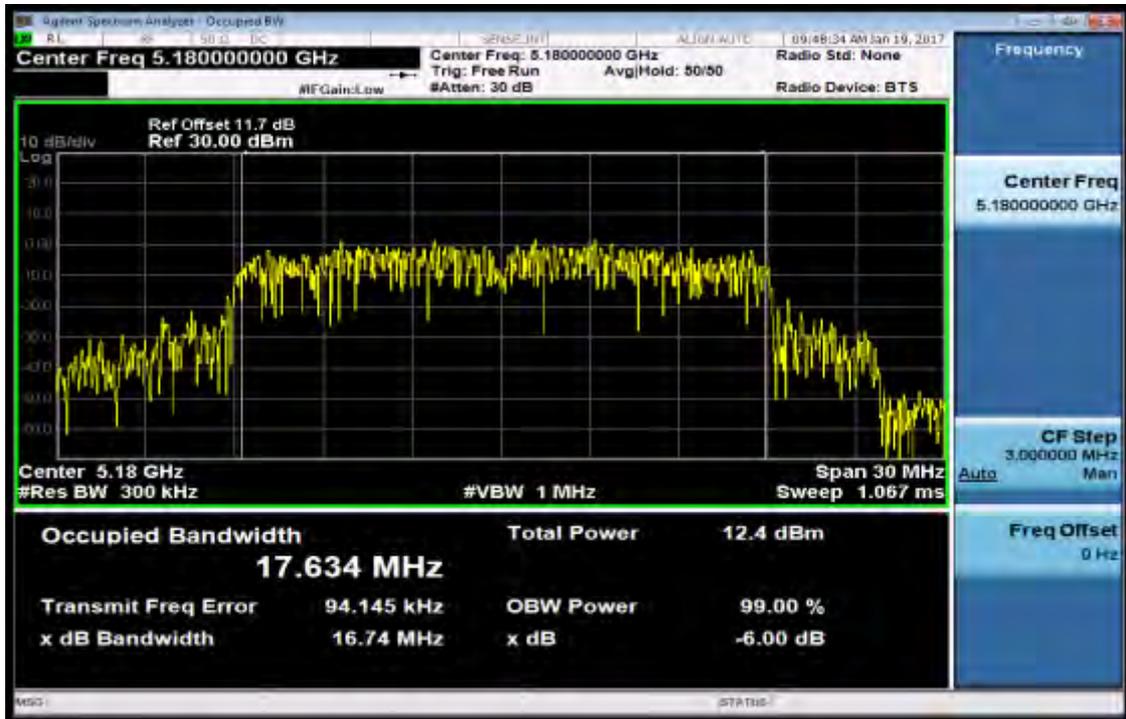
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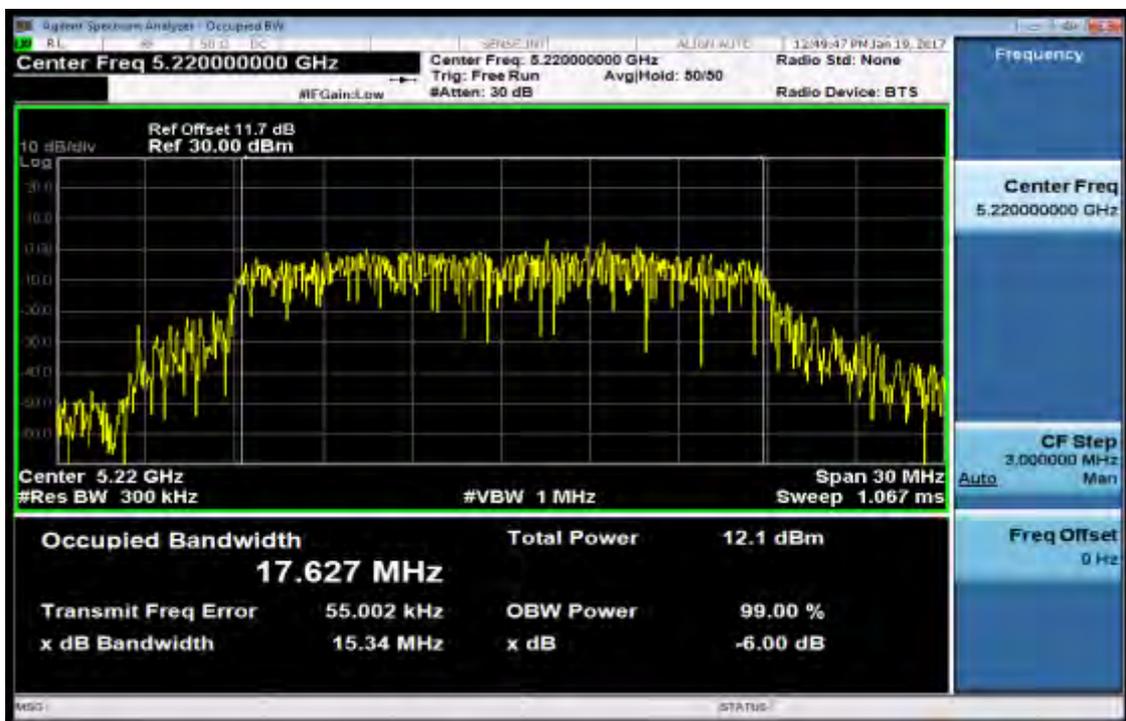
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802.11n HT20, 5150~5250 MHz
99% Band Width Test Data CH-Low (5180 MHz)



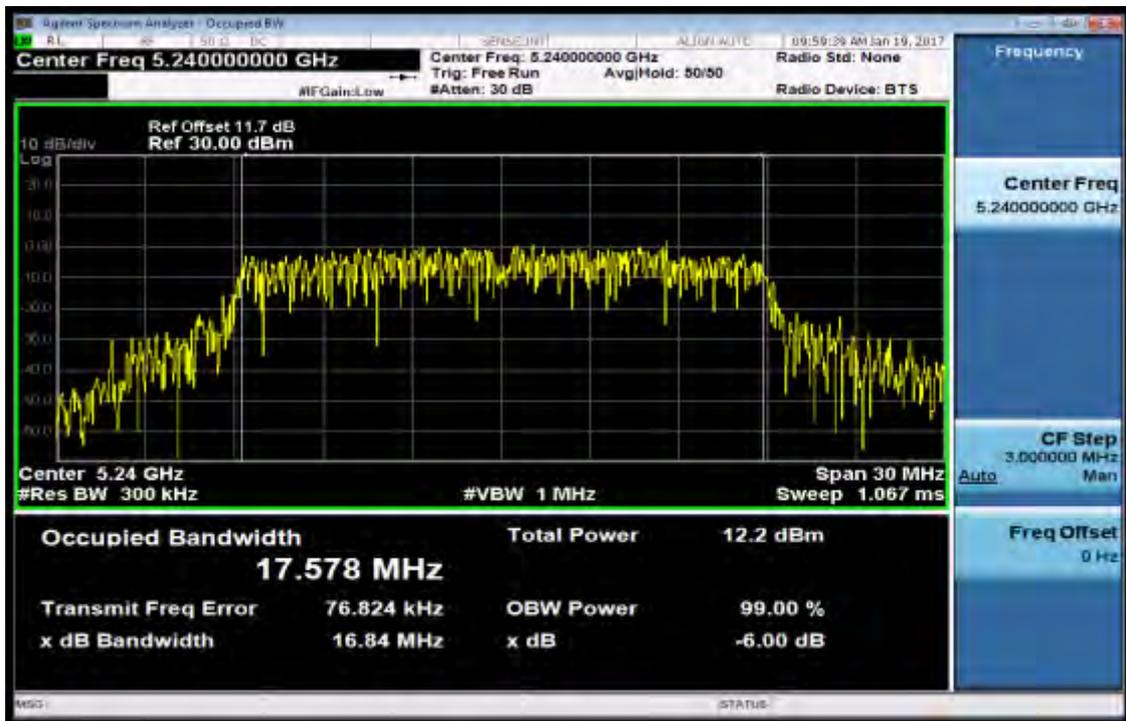
99% Band Width Test Data CH-Mid (5220 MHz)



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99% Band Width Test Data CH-High (5240 MHz)



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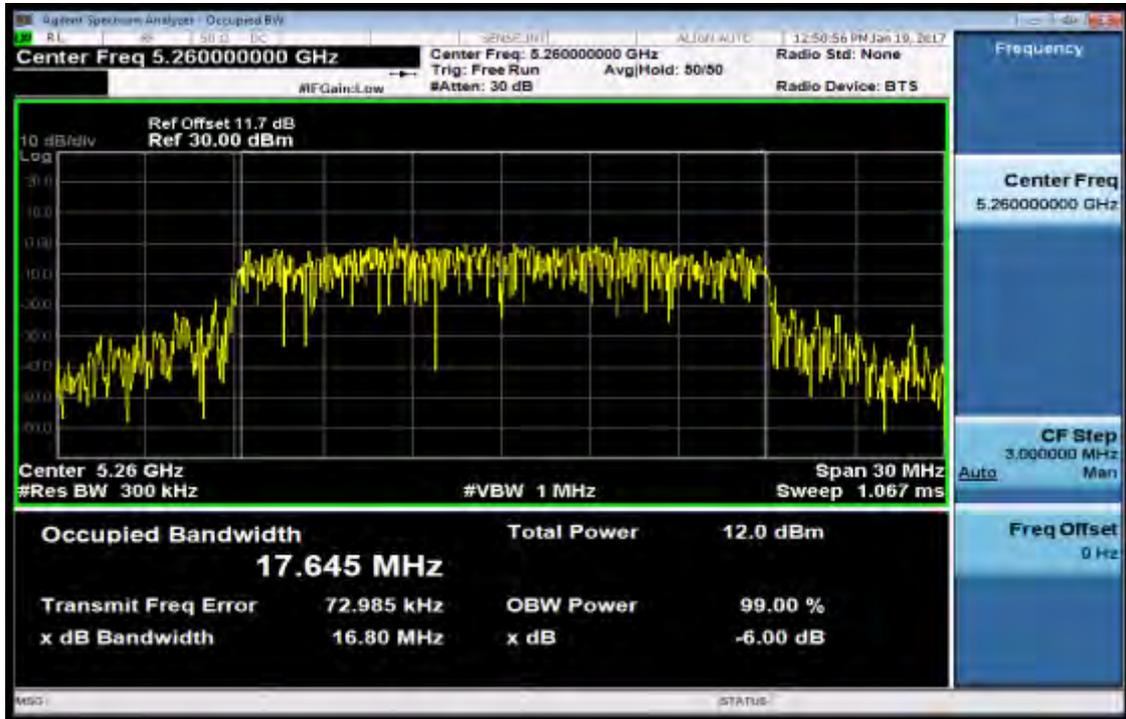
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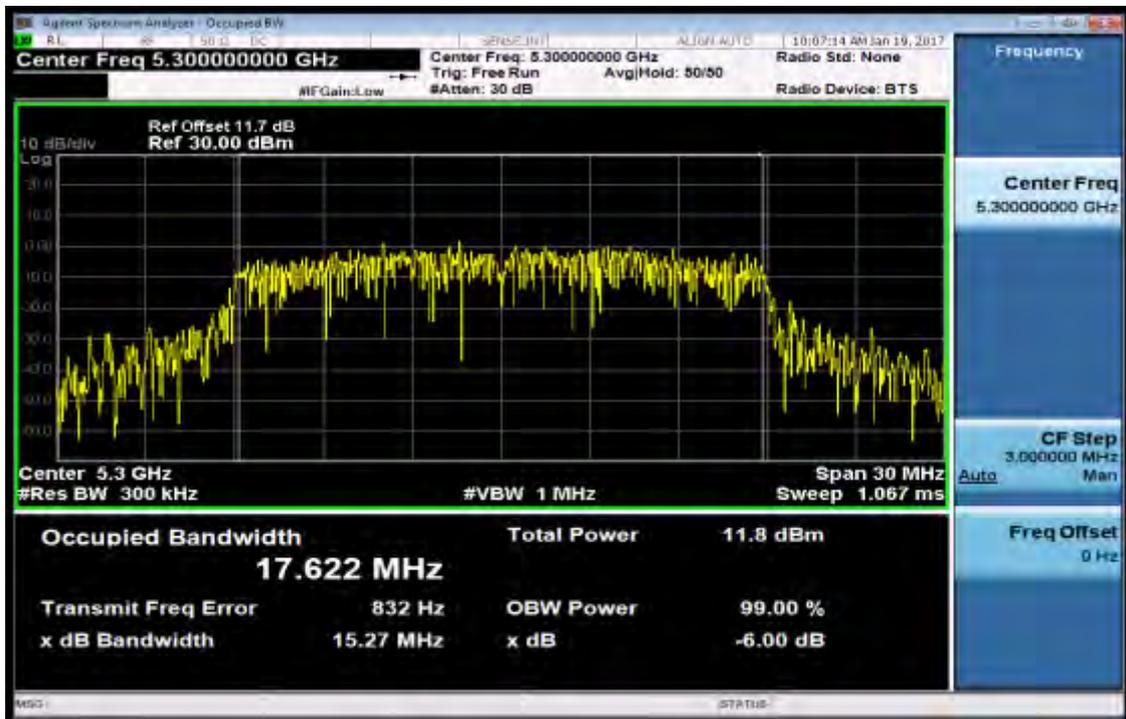
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Member of SGS Group

802.11n HT20, 5250~5350 MHz
99% Band Width Test Data CH-Low (5260 MHz)



99% Band Width Test Data CH-Mid (5300 MHz)



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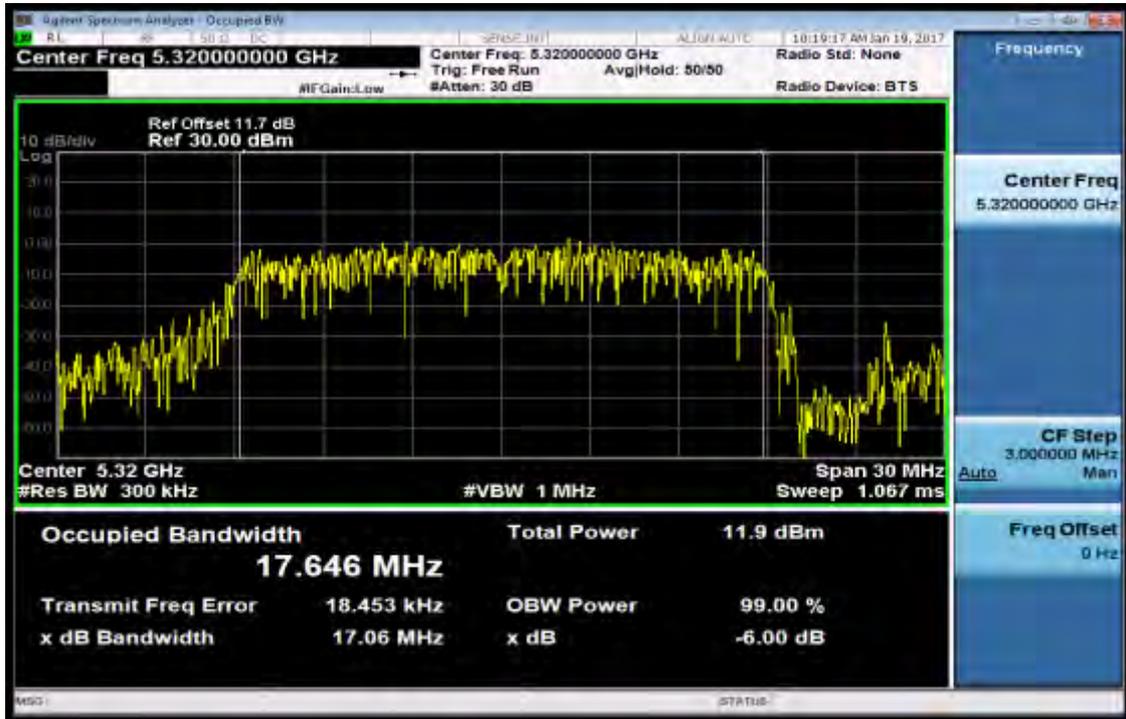
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99% Band Width Test Data CH-High (5320 MHz)



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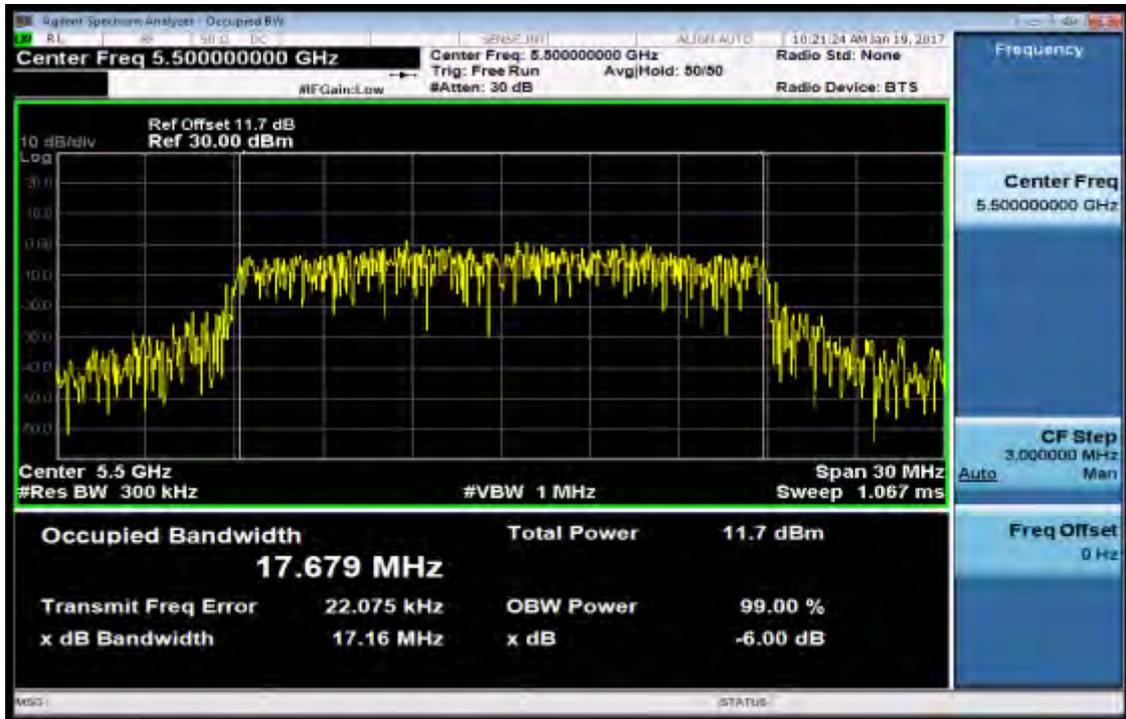
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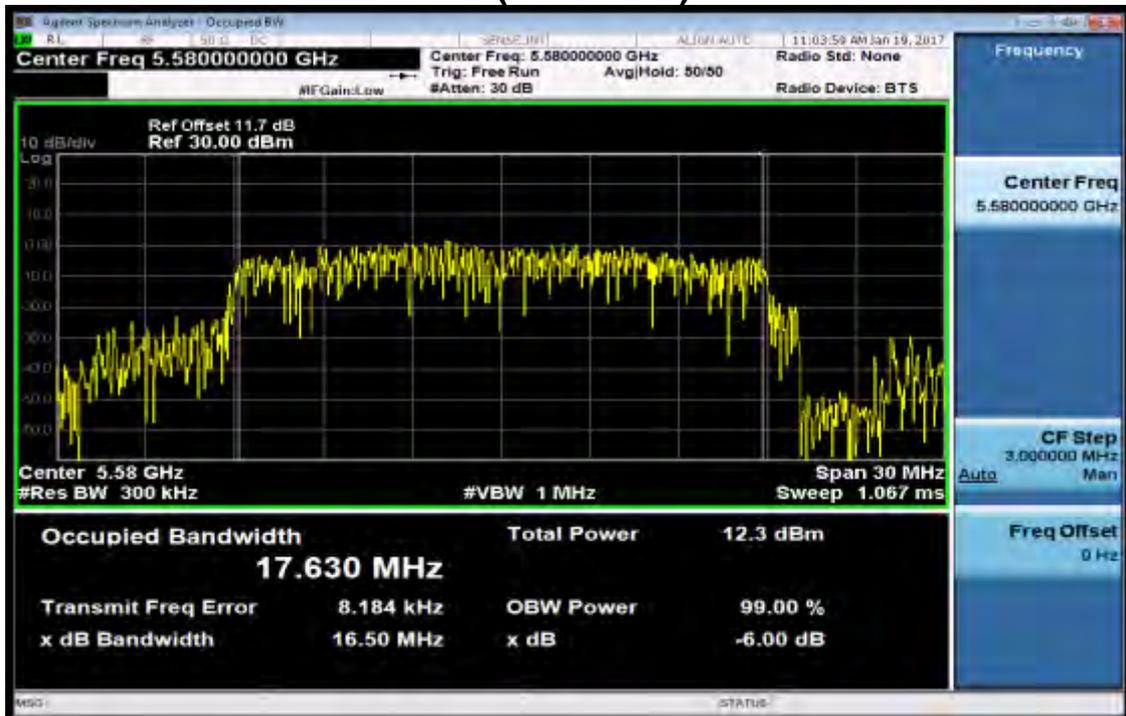
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802.11n HT20, 5470~5725 MHz
99% Band Width Test Data CH-Low (5500 MHz)



99% Band Width Test Data CH-Mid (5580 MHz)



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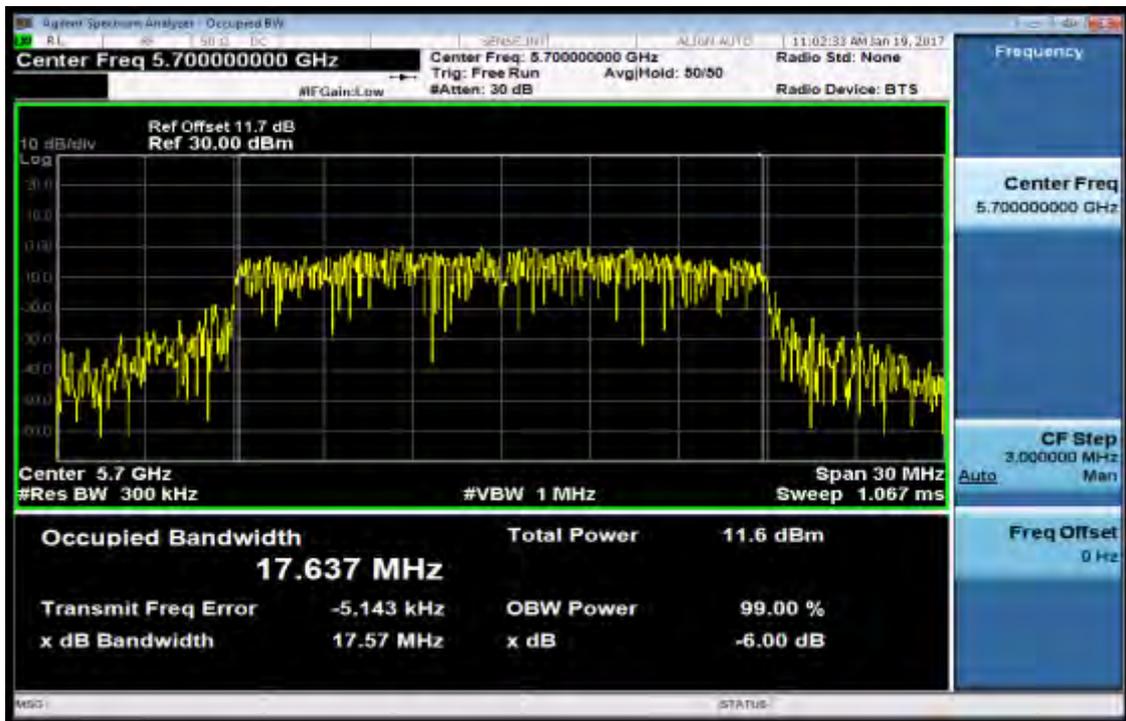
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99% Band Width Test Data CH-High (5700 MHz)



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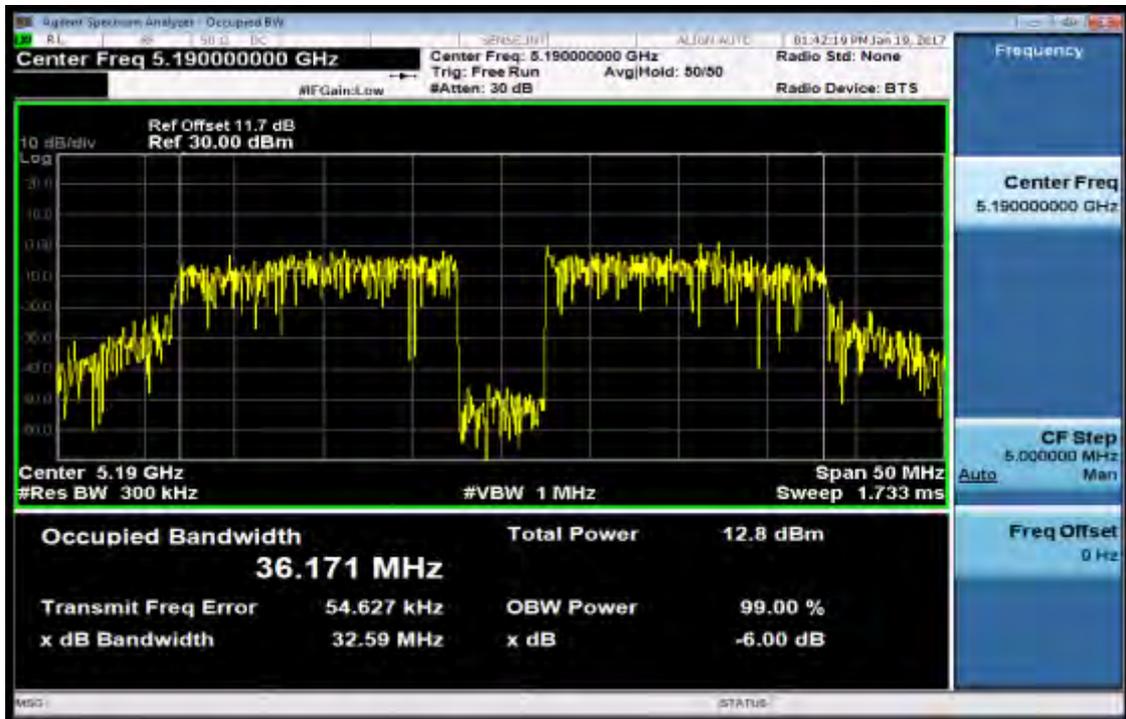
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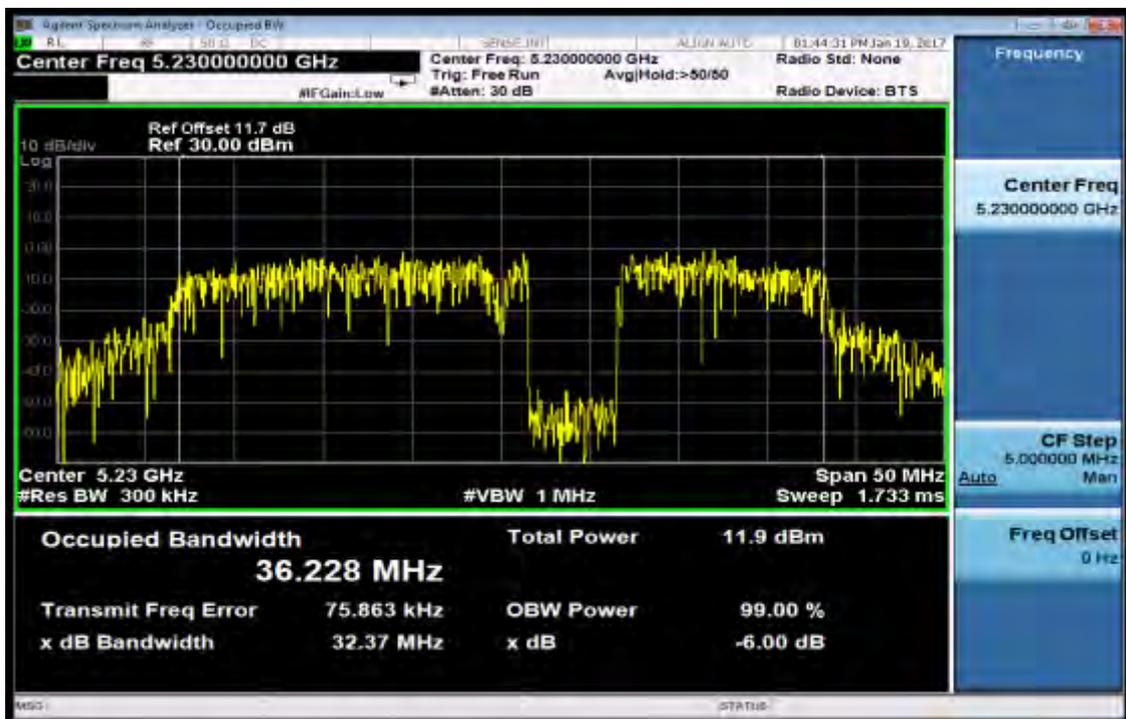
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802.11n HT40, 5150~5250 MHz
99% Band Width Test Data CH-Low (5190 MHz)



99% Band Width Test Data CH-High (5230 MHz)



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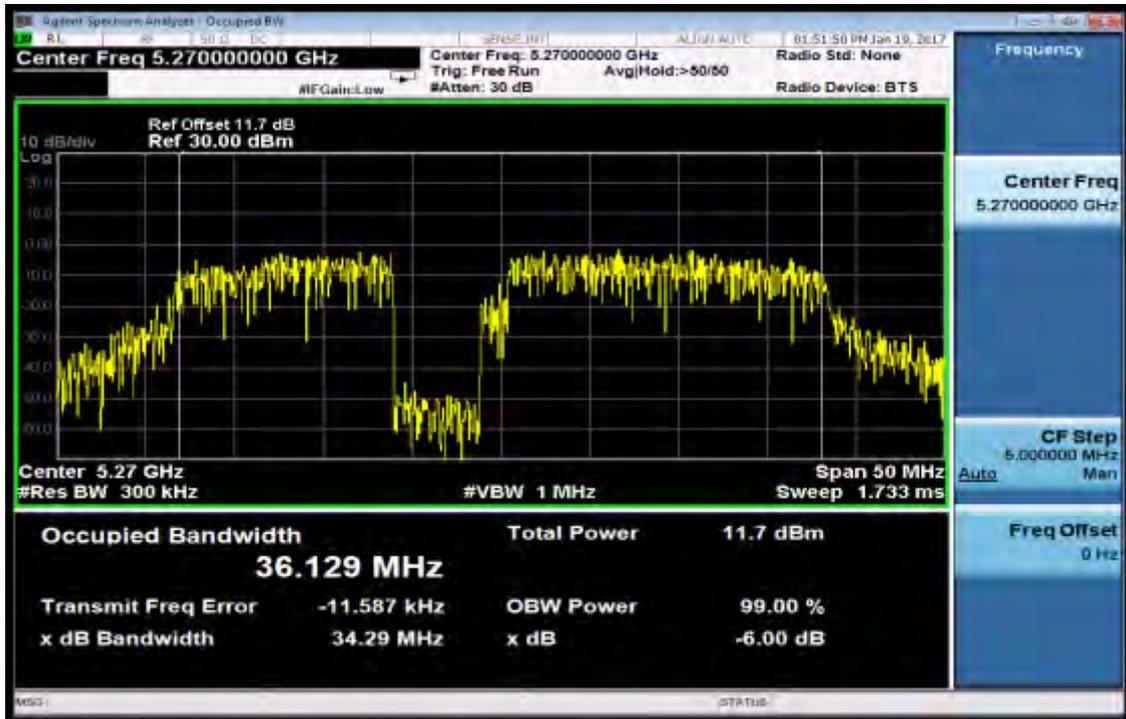
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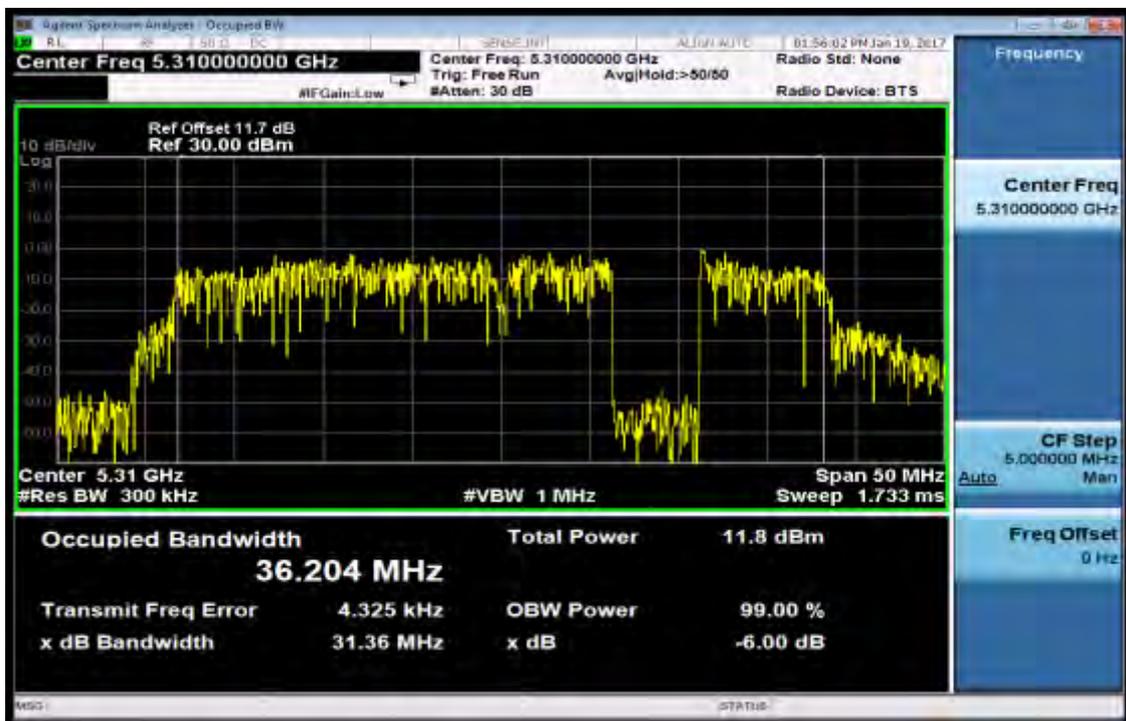
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Member of SGS Group

802.11n HT40, 5250~5350 MHz
99% Band Width Test Data CH-Low (5270 MHz)



99% Band Width Test Data CH-High (5310MHz)



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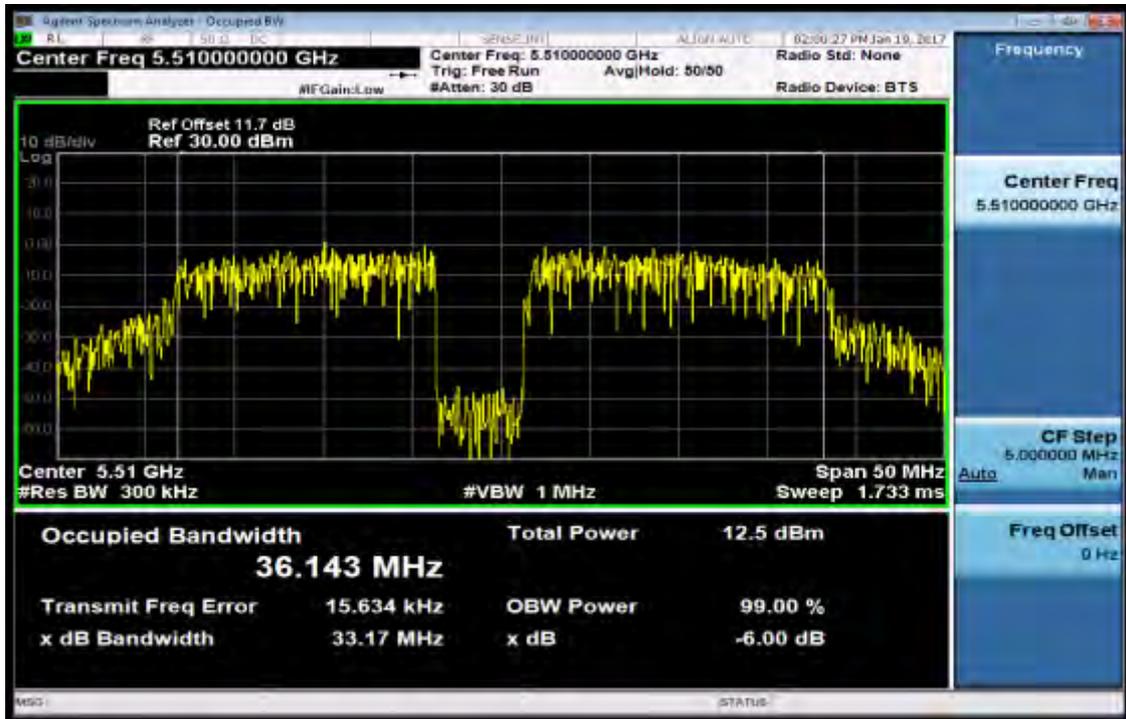
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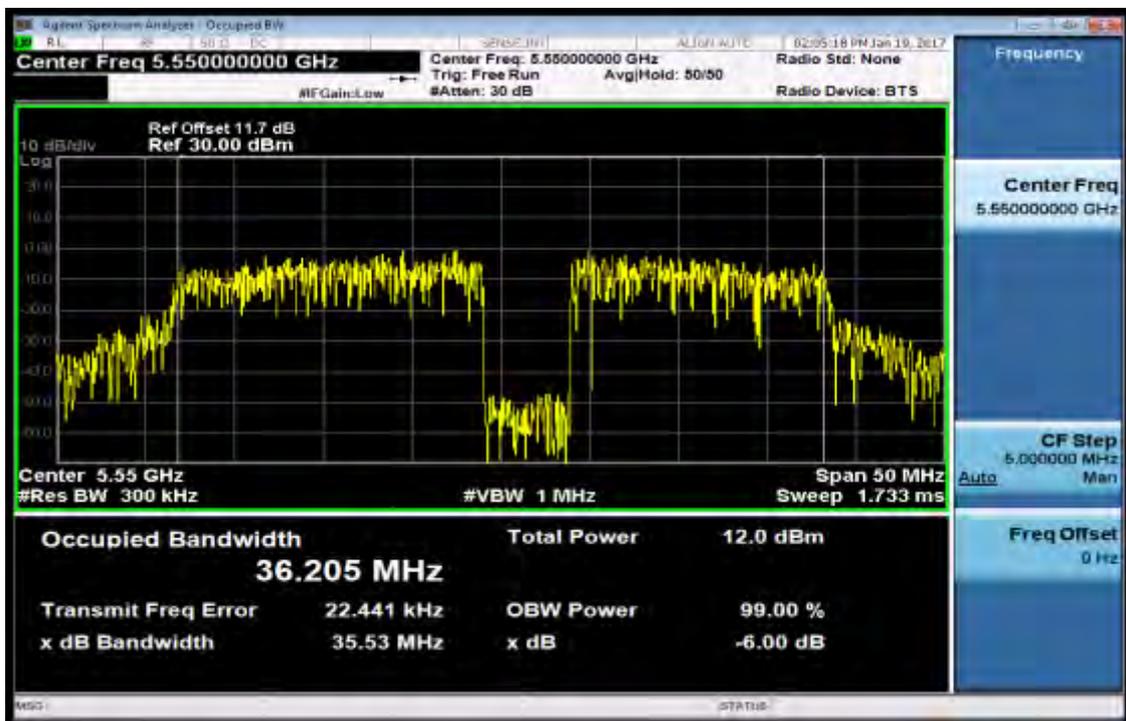
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802.11n HT40, 5470~5725 MHz
99% Band Width Test Data CH-Low (5510 MHz)



99% Band Width Test Data CH-Mid (5550 MHz)



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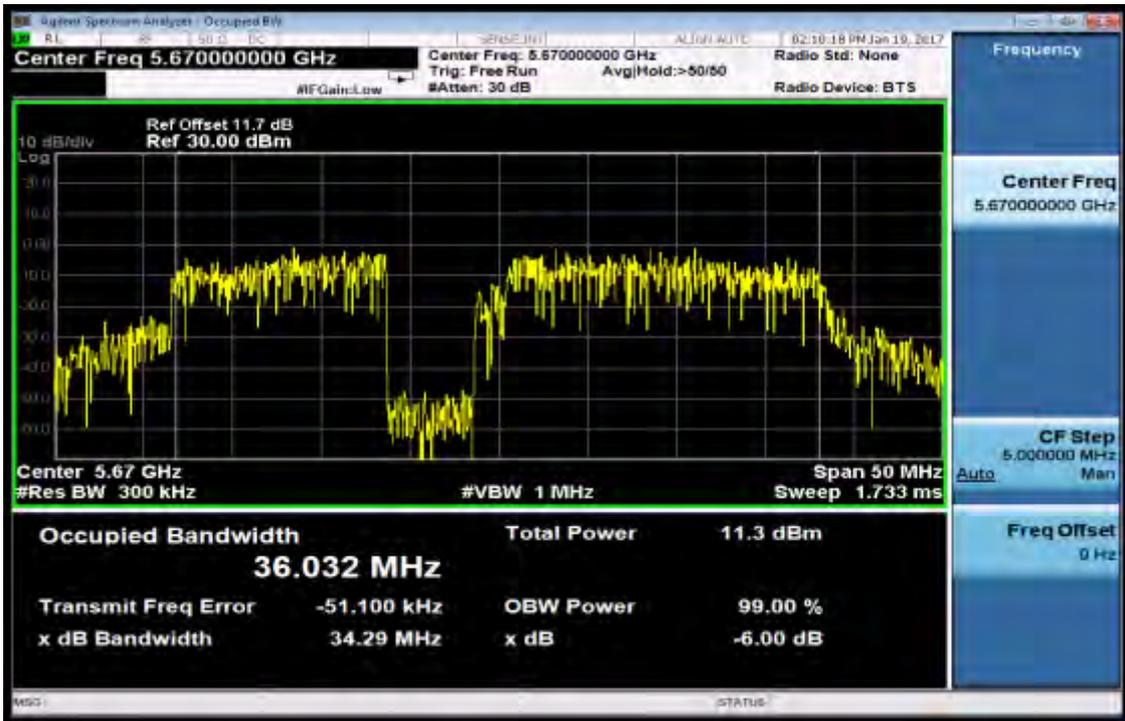
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99% Band Width Test Data CH-High (5670 MHz)



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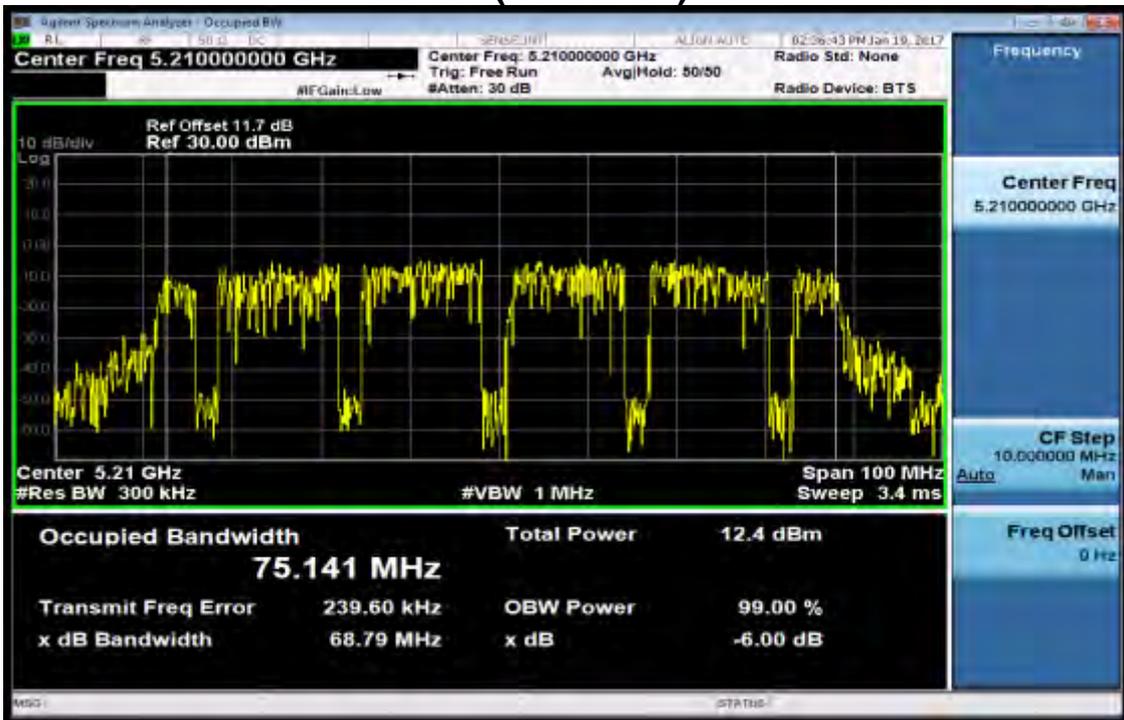
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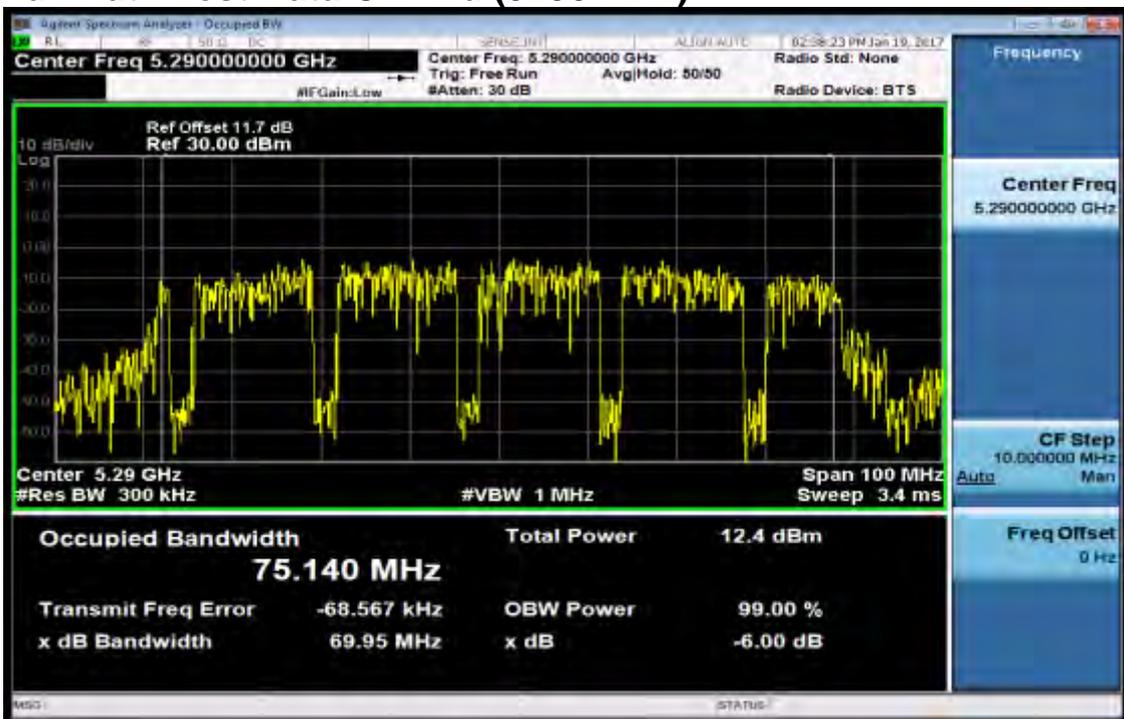
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802.11ac VHT80, 5150~5250 MHz
99% Band Width Test Data CH-Mid (5210 MHz)



802.11ac VHT80, 5250~5350 MHz
99% Band Width Test Data CH-Mid (5290 MHz)



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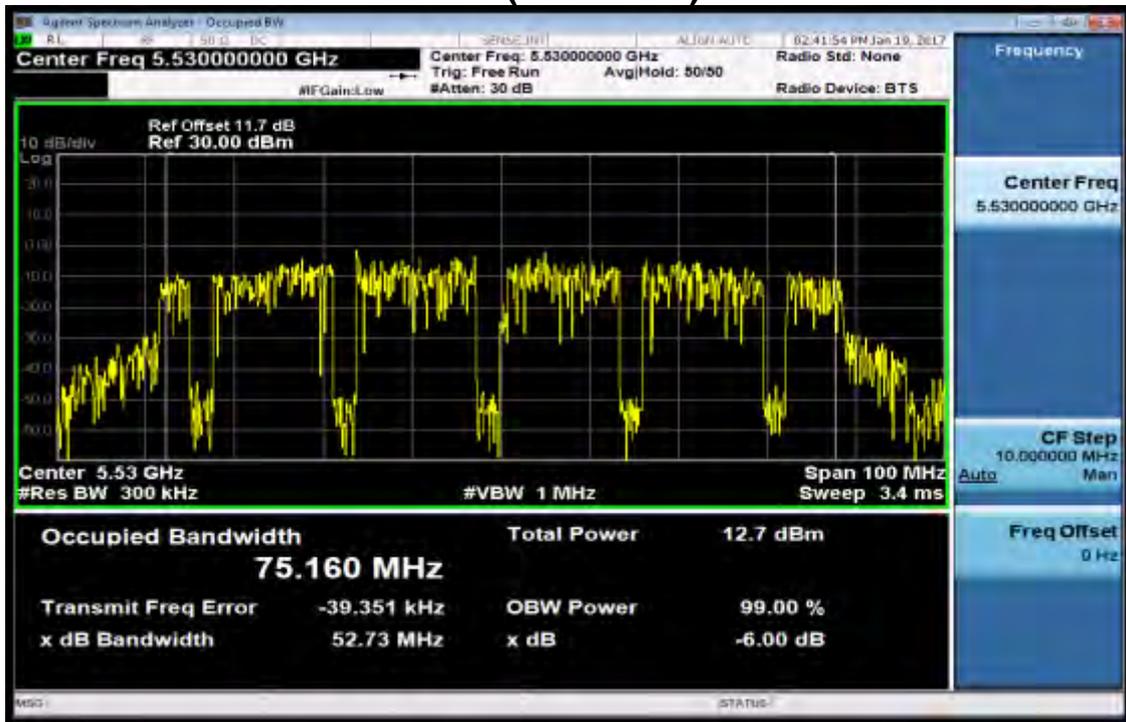
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802.11ac VHT80, 5470~5725 MHz
99% Band Width Test Data CH-Low (5530 MHz)



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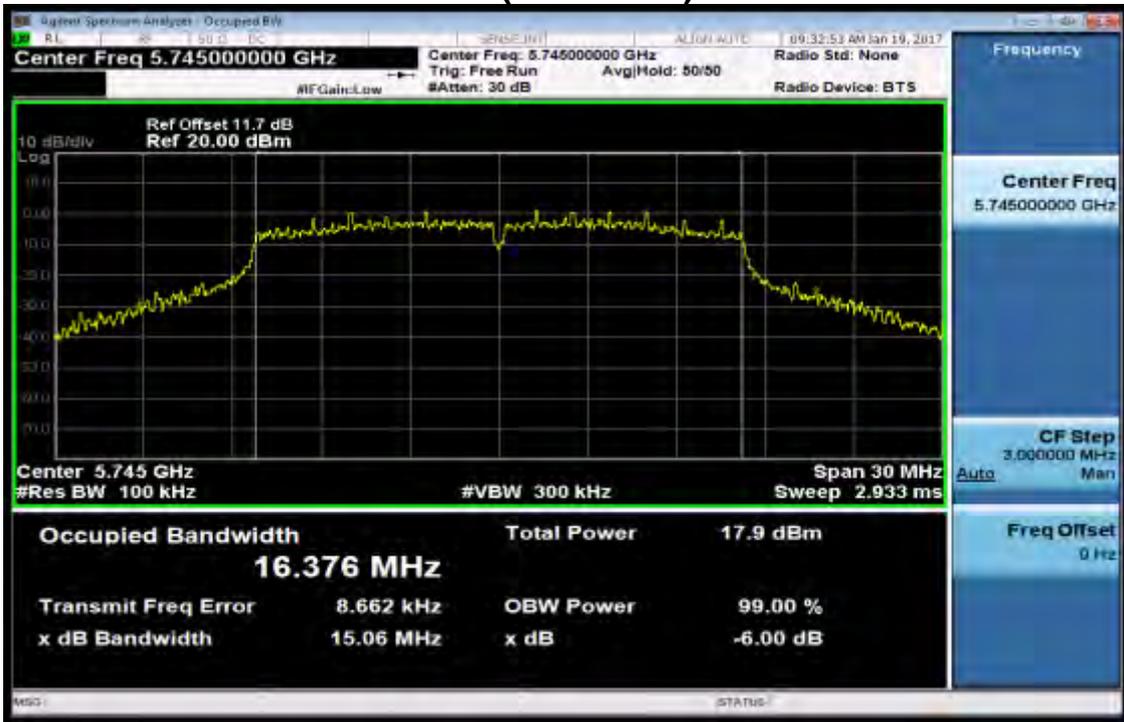
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6dB Band Width measure with Peak detector for FCC
802.11a, 5725~5850 MHz
6dB Band Width Test Data CH-Low (5745 MHz)



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



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



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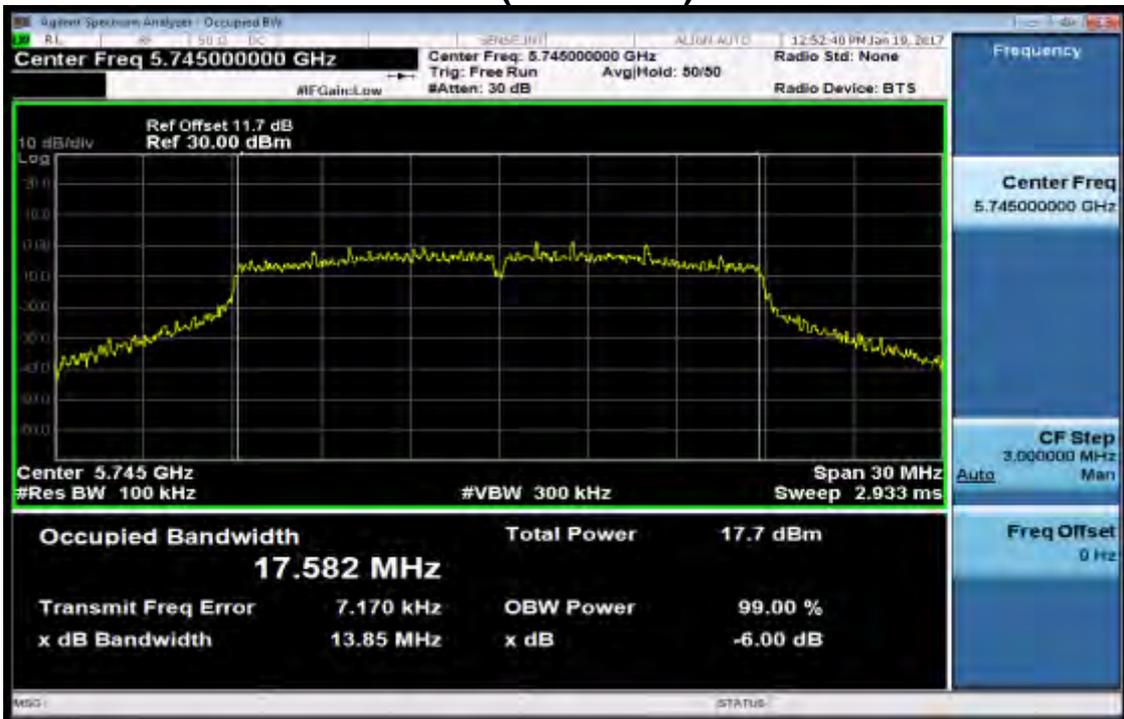
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802.11n_HT20, 5725~5850 MHz
6dB Band Width Test Data CH-Low (5745 MHz)



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



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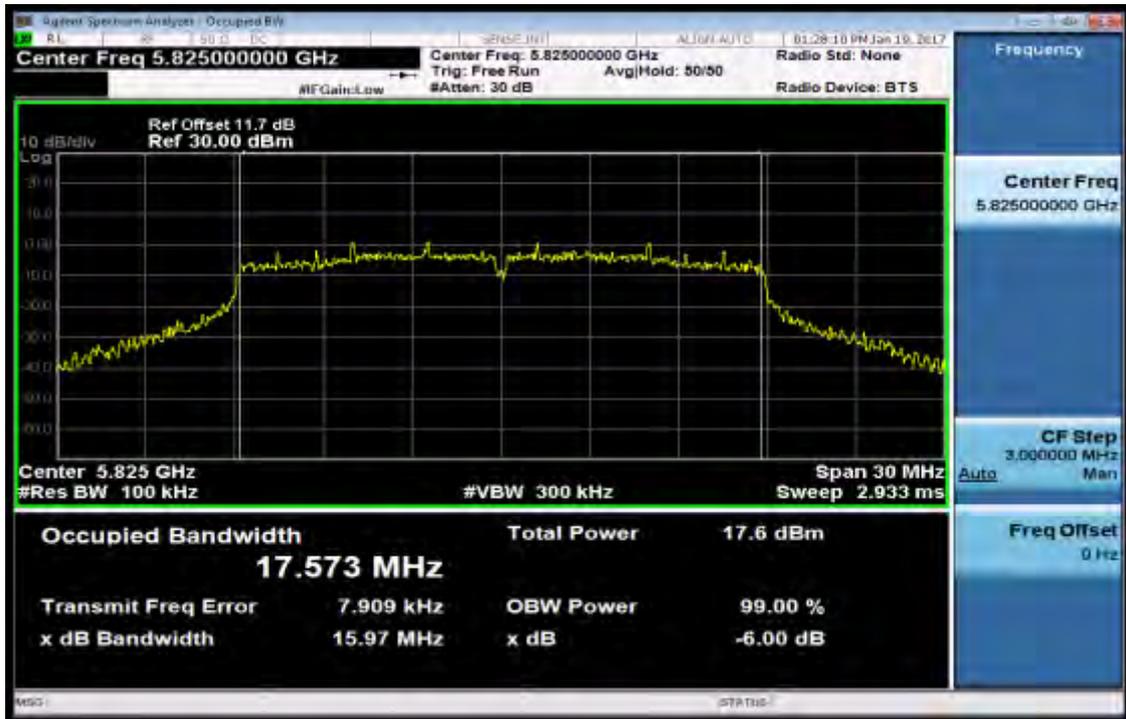
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6dB Band Width Test Data CH-High (5825 MHz)



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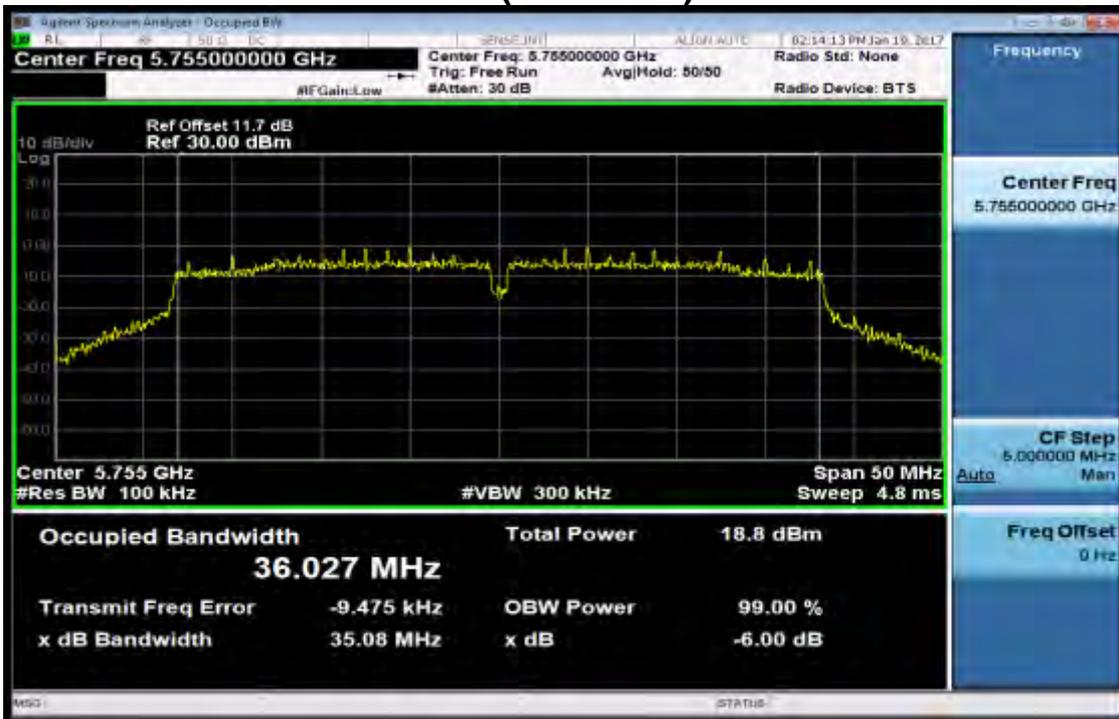
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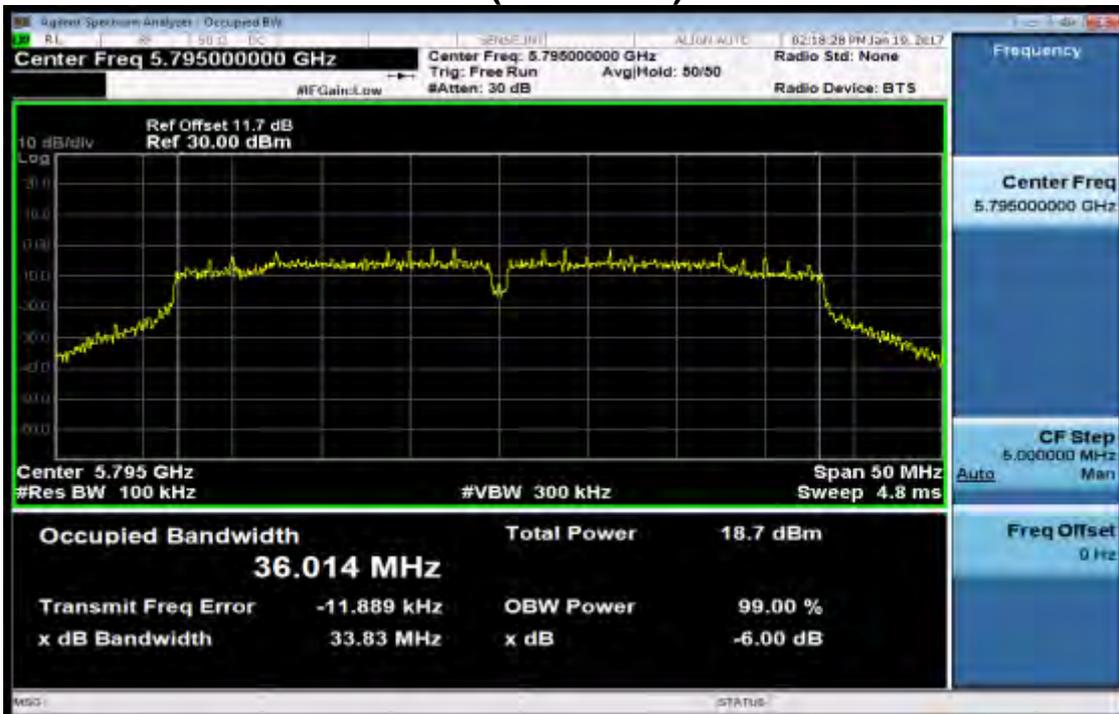
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802.11n_HT40, 5725~5850 MHz
6dB Band Width Test Data CH-Low (5755 MHz)



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



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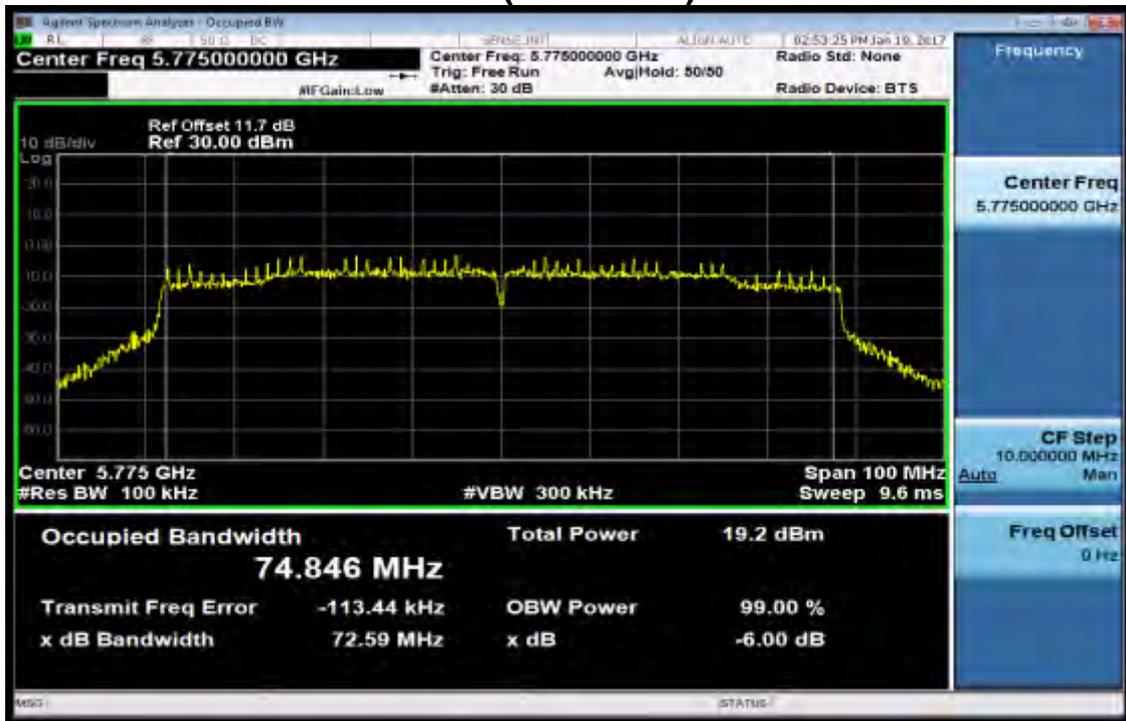
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802.11ac VHT80, 5725~5850 MHz
6dB Band Width Test Data CH-Low (5775 MHz)



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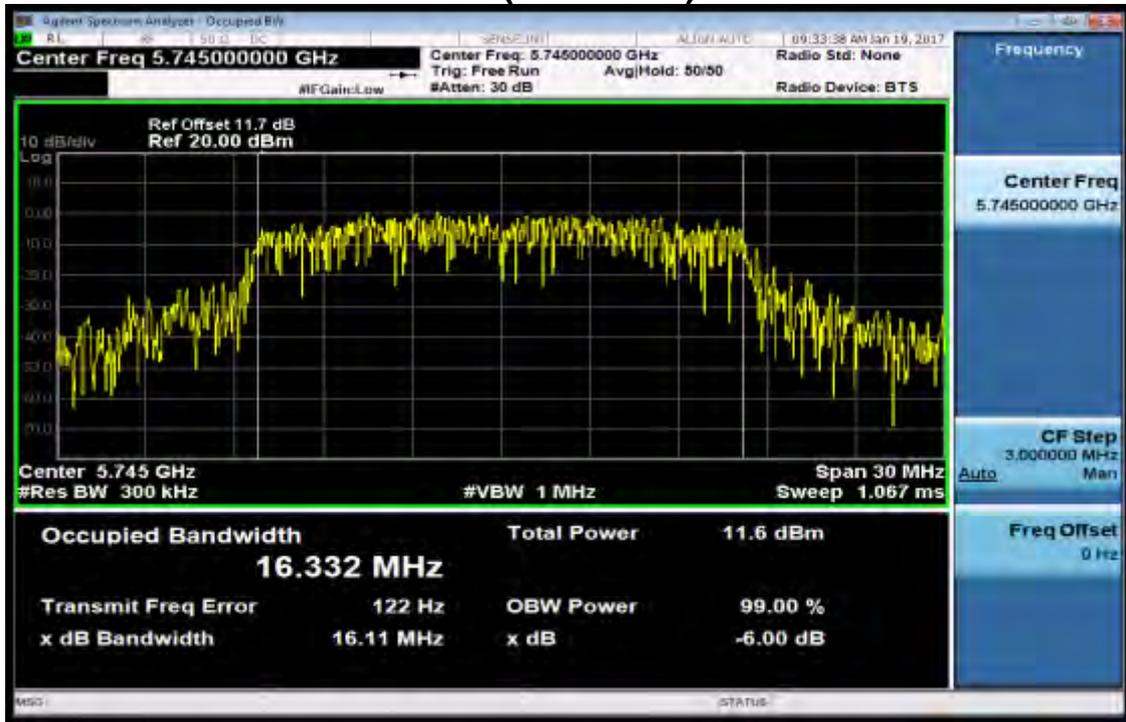
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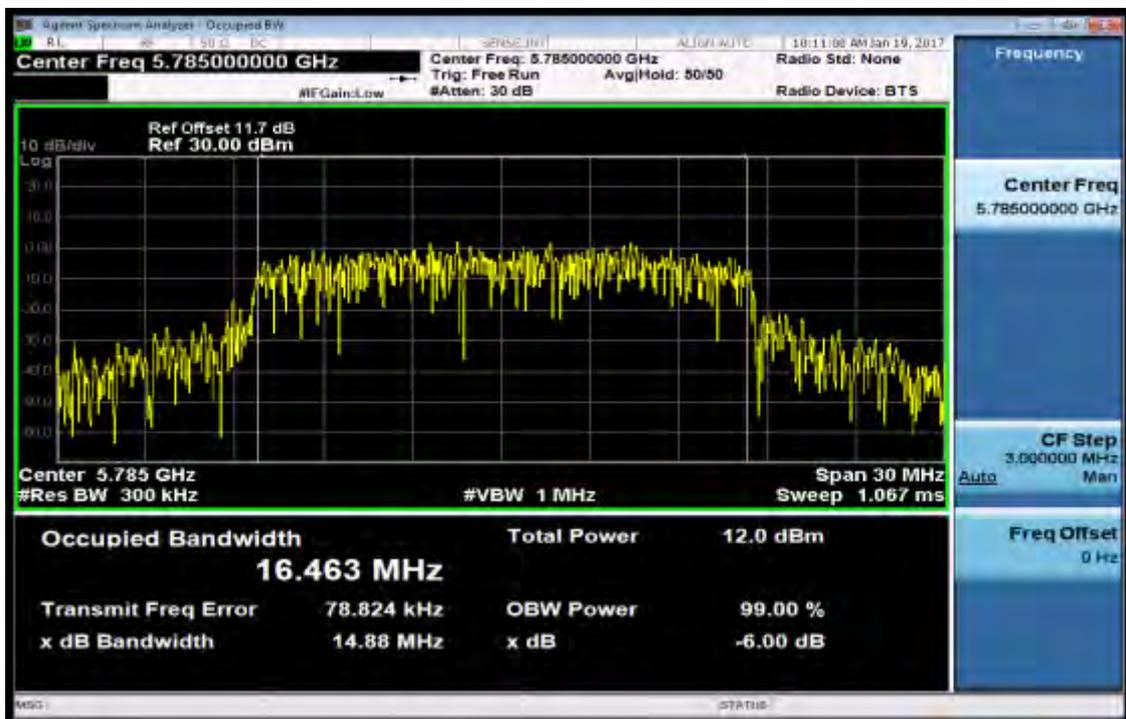
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**6dB Band Width measure with Average detector for IC
802.11a, 5725~5850 MHz
6dB Band Width Test Data CH-Low (5745 MHz)**



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



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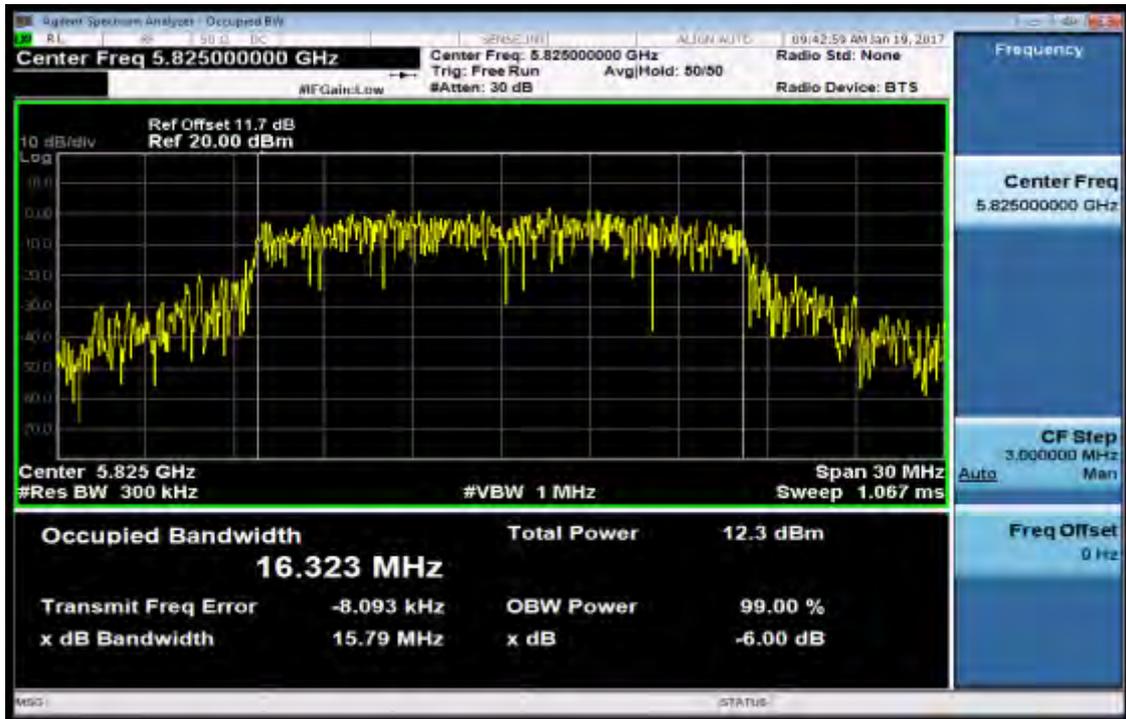
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6dB Band Width Test Data CH-High (5825 MHz)



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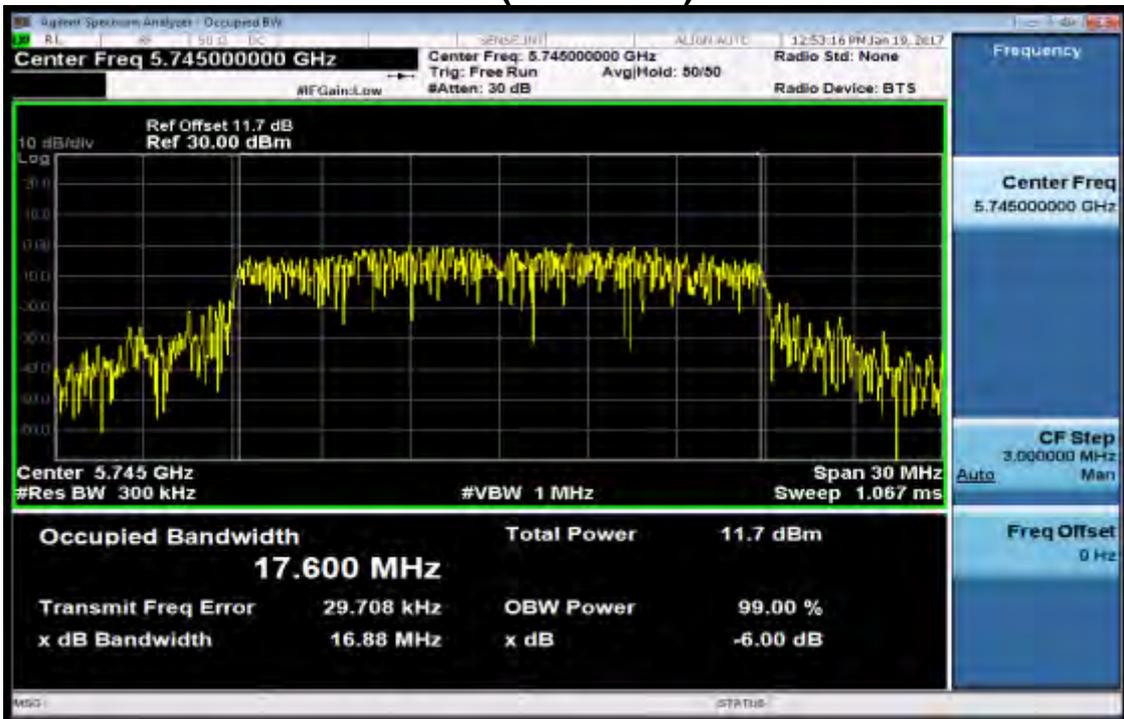
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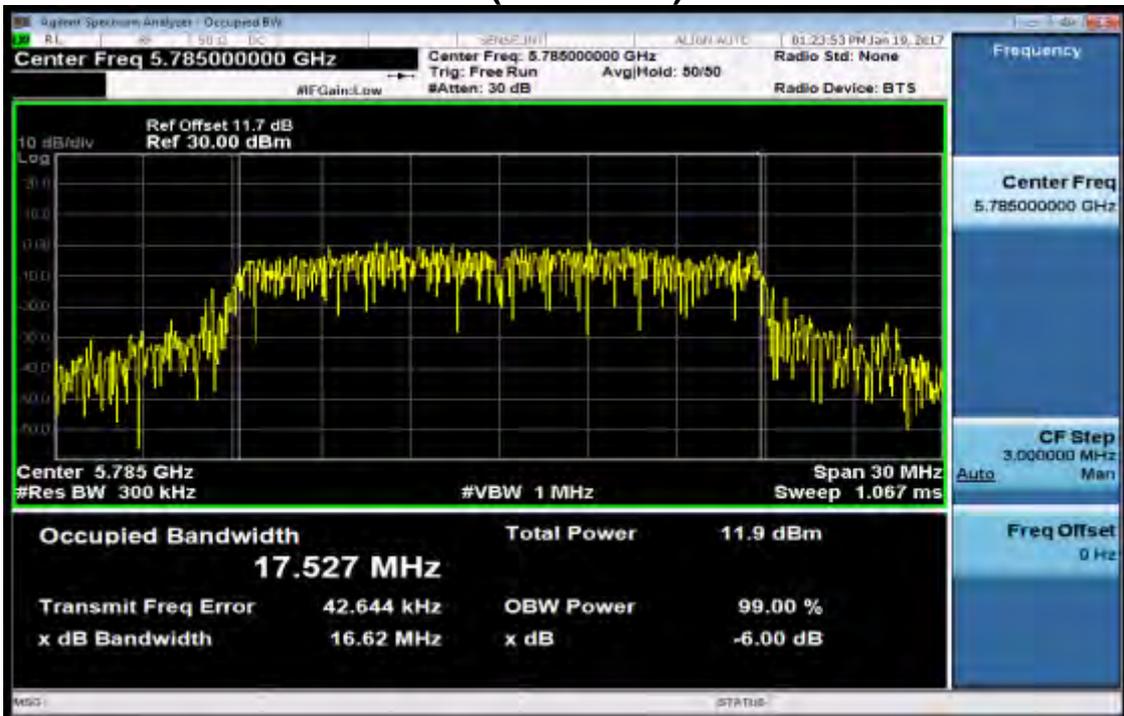
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802.11n_HT20, 5725~5850 MHz
6dB Band Width Test Data CH-Low (5745 MHz)



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



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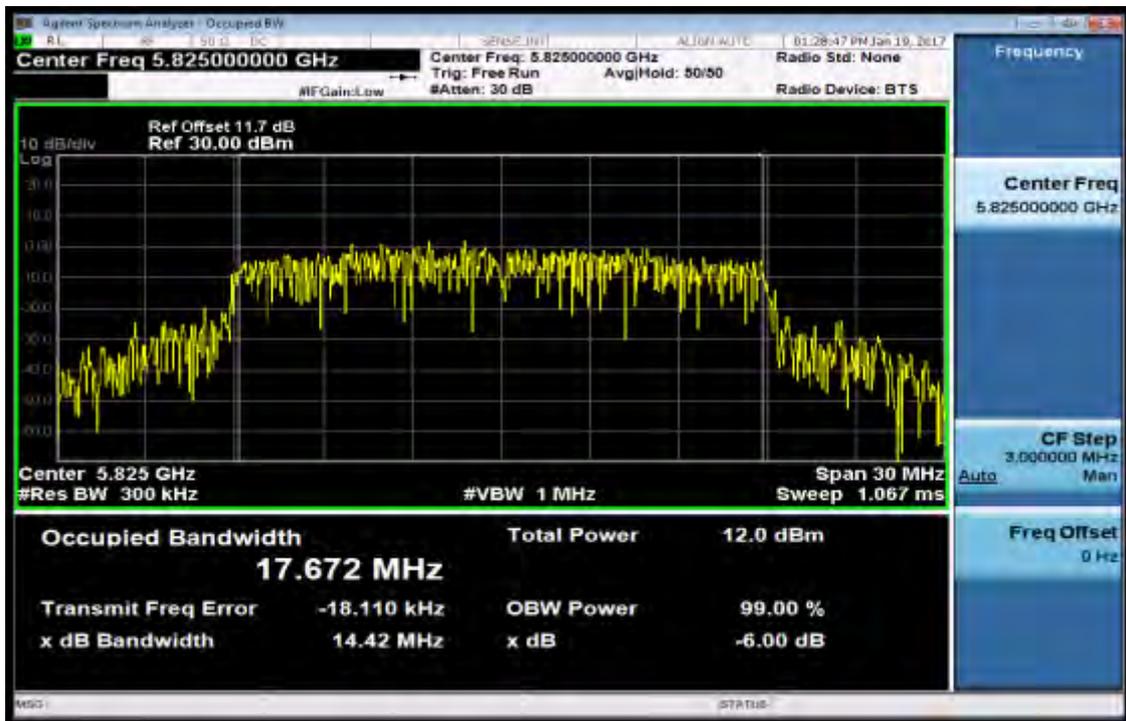
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6dB Band Width Test Data CH-High (5825 MHz)



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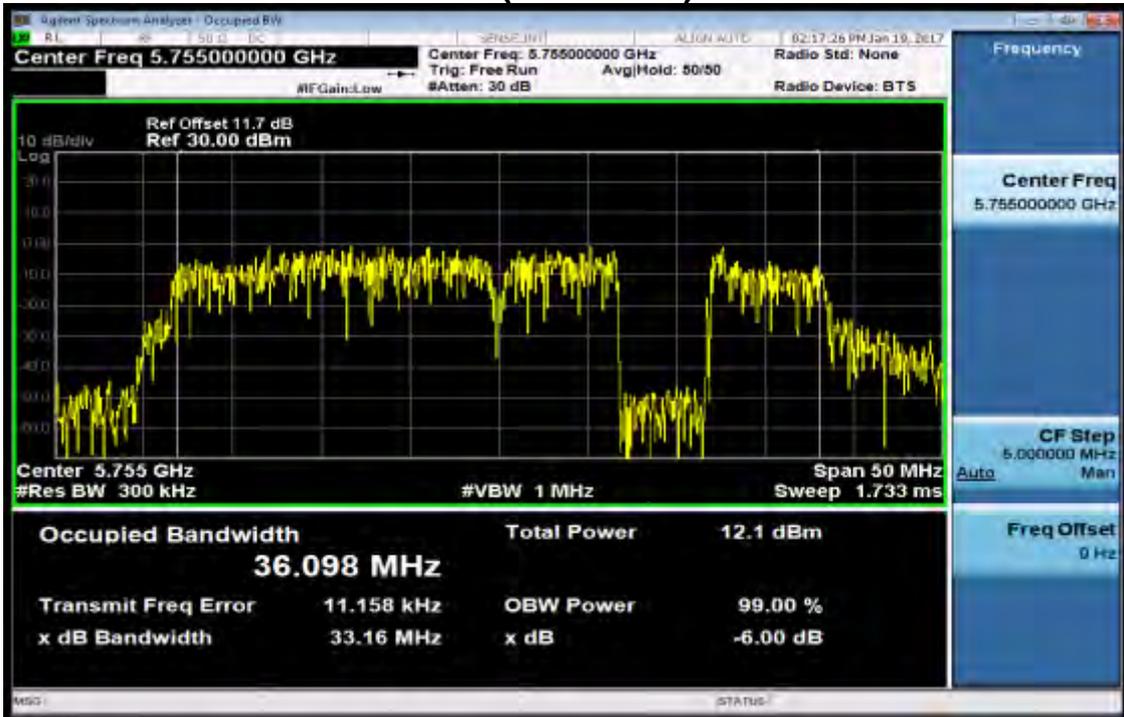
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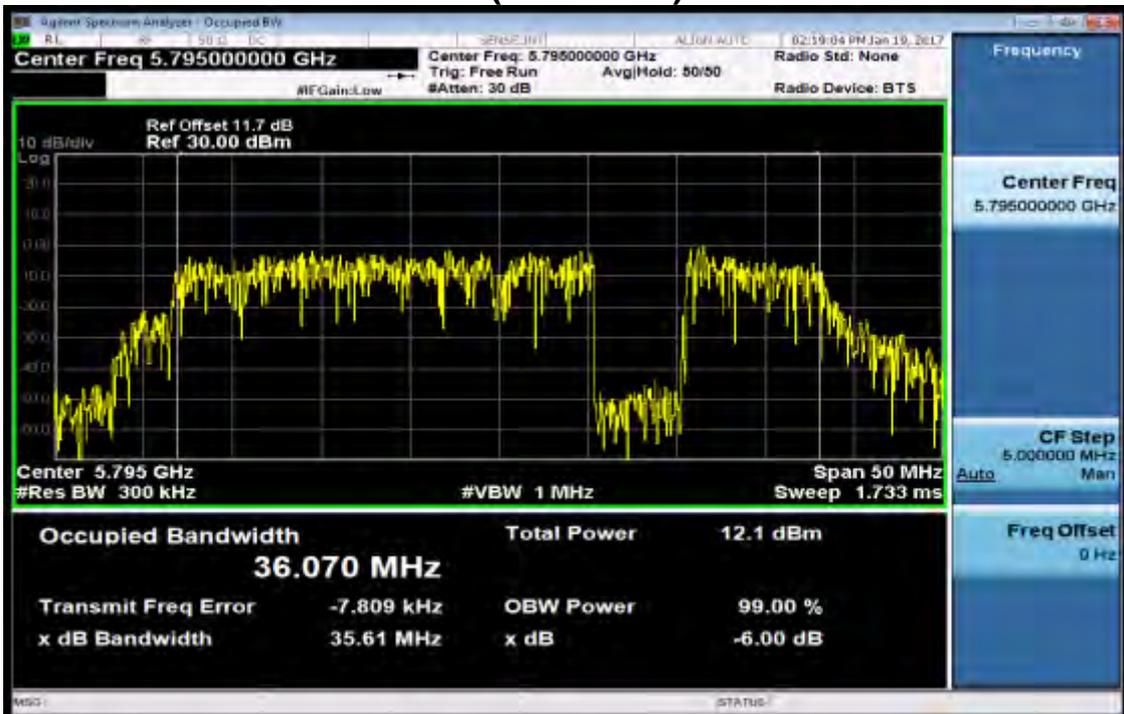
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802.11n_HT40, 5725~5850 MHz
6dB Band Width Test Data CH-Low (5755 MHz)



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



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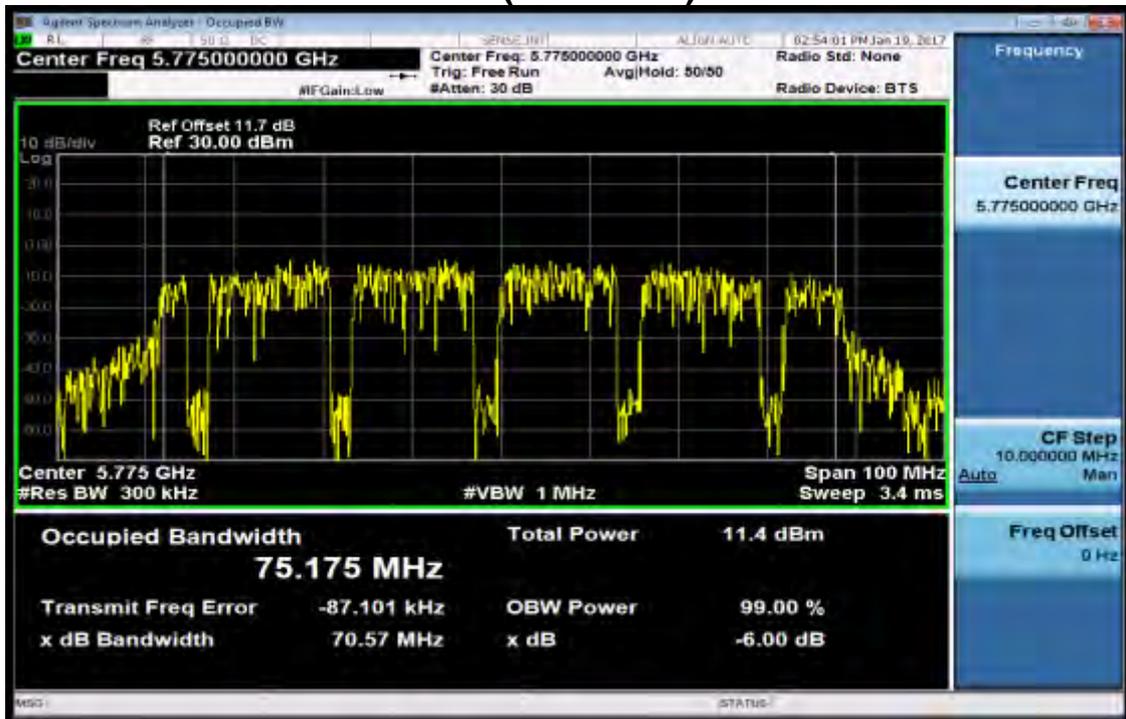
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802.11ac VHT80, 5725~5850 MHz
6dB Band Width Test Data CH-Low (5775 MHz)



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9. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

FCC

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Mater device)	1 Watt(30dBm)
		Fixed point-to-point Acess Ponit	1 Watt(30dBm)
	√	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)

IC

OPERZTION FREQUENCY BAND	LIMIT
5150~5250 MHz	EIRP shall not exceed 200 mW or 10 + 10 log ₁₀ B, dBm
5250~5350 MHz	Conducted output power shall not exceed 250 mW or 11 +10 log ₁₀ B EIRP shall not exceed 1.0 W or 17 + 10 log ₁₀ B, dBm
5470-5600 MHz and 5650-5725 MHz	Conducted output power shall not exceed 250 mW or 11 +10 log ₁₀ B EIRP shall not exceed 1.0 W or 17 + 10 log ₁₀ B, dBm
5725~5850 MHz	Conducted output power shall not exceed 1 W

If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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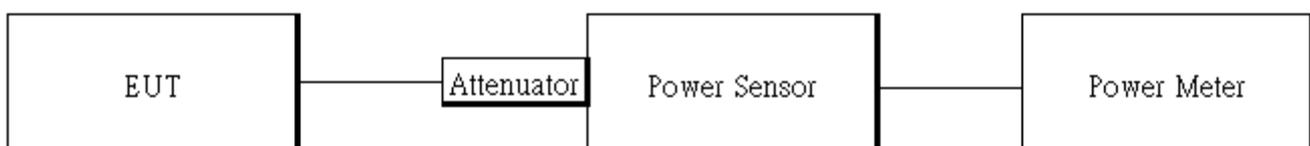
9.2 Measurement Procedure

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

Conducted Emission Test Site					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
Power Meter	Anritsu	ML2496A	1326001	06/23/2016	06/22/2017
Power Sensor	Anritsu	MA2411B	1315048	06/23/2016	06/22/2017
Power Sensor	Anritsu	MA2411B	1315049	06/23/2016	06/22/2017
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2016	12/11/2017
DC Block	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2016	05/03/2017

9.4 Test Set-up



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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	MCS0	10.19	10.447	23.98	PASS
44	5220	MCS0	10.18	10.423	23.98	PASS
48	5240	MCS0	10.14	10.328	23.98	PASS
52	5260	MCS0	10.59	11.455	23.98 or 11+10log(B) = 24.44	PASS
60	5300	MCS0	10.58	11.429	23.98 or 11+10log(B) = 24.49	PASS
64	5320	MCS0	10.56	11.376	23.98 or 11+10log(B) = 24.47	PASS
100	5500	MCS0	10.45	11.092	23.98 or 11+10log(B) = 24.65	PASS
116	5580	MCS0	10.47	11.143	23.98 or 11+10log(B) = 24.68	PASS
140	5700	MCS0	10.49	11.194	23.98 or 11+10log(B) = 24.59	PASS
149	5745	MCS0	11.27	13.397	30	PASS
157	5785	MCS0	11.24	13.305	30	PASS
165	5825	MCS0	11.26	13.366	30	PASS

802.11a_Aux1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	11.51	14.158	23.98	PASS
44	5220	MCS0	11.54	14.256	23.98	PASS
48	5240	MCS0	11.54	14.256	23.98	PASS
52	5260	MCS0	10.78	11.967	23.98 or 11+10log(B) = 24.44	PASS
60	5300	MCS0	10.73	11.830	23.98 or 11+10log(B) = 24.49	PASS
64	5320	MCS0	10.75	11.885	23.98 or 11+10log(B) = 24.47	PASS
100	5500	MCS0	9.36	8.630	23.98 or 11+10log(B) = 24.65	PASS
116	5580	MCS0	9.34	8.590	23.98 or 11+10log(B) = 24.68	PASS
140	5700	MCS0	9.35	8.610	23.98 or 11+10log(B) = 24.59	PASS
149	5745	MCS0	9.25	8.414	30	PASS
157	5785	MCS0	9.29	8.492	30	PASS
165	5825	MCS0	9.27	8.453	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	10.13	10.304	23.98	PASS
44	5220	MCS0	10.18	10.423	23.98	PASS
48	5240	MCS0	10.17	10.399	23.98	PASS
52	5260	MCS0	10.15	10.351	23.98 or $11+10\log(B) = 24.68$	PASS
60	5300	MCS0	10.51	11.246	23.98 or $11+10\log(B) = 24.60$	PASS
64	5320	MCS0	10.58	11.429	23.98 or $11+10\log(B) = 24.58$	PASS
100	5500	MCS0	10.54	11.324	23.98 or $11+10\log(B) = 24.43$	PASS
116	5580	MCS0	10.45	11.092	23.98 or $11+10\log(B) = 24.60$	PASS
140	5700	MCS0	10.48	11.169	23.98 or $11+10\log(B) = 24.64$	PASS
149	5745	MCS0	11.26	13.366	30	PASS
157	5785	MCS0	11.26	13.366	30	PASS
165	5825	MCS0	11.25	13.335	30	PASS

802.11n_HT20_Aux1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	11.51	14.158	23.98	PASS
44	5220	MCS0	11.57	14.355	23.98	PASS
48	5240	MCS0	11.56	14.322	23.98	PASS
52	5260	MCS0	10.71	11.776	23.98 or $11+10\log(B) = 24.68$	PASS
60	5300	MCS0	10.78	11.967	23.98 or $11+10\log(B) = 24.60$	PASS
64	5320	MCS0	10.73	11.830	23.98 or $11+10\log(B) = 24.58$	PASS
100	5500	MCS0	9.35	8.610	23.98 or $11+10\log(B) = 24.43$	PASS
116	5580	MCS0	9.37	8.650	23.98 or $11+10\log(B) = 24.60$	PASS
140	5700	MCS0	9.35	8.610	23.98 or $11+10\log(B) = 24.64$	PASS
149	5745	MCS0	9.28	8.472	30	PASS
157	5785	MCS0	9.23	8.375	30	PASS
165	5825	MCS0	9.29	8.492	30	PASS

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802.11n_HT40_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	9.65	9.226	23.98	PASS
46	5230	MCS0	9.61	9.141	23.98	PASS
54	5270	MCS0	10.04	10.093	23.98 or $11+10\log(B) = 27.38$	PASS
62	5310	MCS0	10.08	10.186	23.98 or $11+10\log(B) = 27.40$	PASS
102	5510	MCS0	9.96	9.908	23.98 or $11+10\log(B) = 27.47$	PASS
110	5550	MCS0	9.92	9.817	23.98 or $11+10\log(B) = 27.53$	PASS
134	5670	MCS0	9.93	9.840	23.98 or $11+10\log(B) = 27.45$	PASS
151	5755	MCS0	10.71	11.776	30	PASS
159	5795	MCS0	10.78	11.967	30	PASS

802.11n_HT40_Aux1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	11.06	12.764	23.98	PASS
46	5230	MCS0	11.07	12.794	23.98	PASS
54	5270	MCS0	10.23	10.544	23.98 or $11+10\log(B) = 27.38$	PASS
62	5310	MCS0	10.27	10.641	23.98 or $11+10\log(B) = 27.40$	PASS
102	5510	MCS0	8.85	7.674	23.98 or $11+10\log(B) = 27.47$	PASS
110	5550	MCS0	8.80	7.586	23.98 or $11+10\log(B) = 27.53$	PASS
134	5670	MCS0	8.86	7.691	23.98 or $11+10\log(B) = 27.45$	PASS
151	5755	MCS0	8.78	7.551	30	PASS
159	5795	MCS0	8.75	7.499	30	PASS

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802.11ac_VHT80_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	9.61	9.141	23.98	PASS
58	5290	MCS0	10.06	10.139	23.98 or $11+10\log(B) = 30.17$	PASS
106	5530	MCS0	9.91	9.795	23.98 or $11+10\log(B) = 30.30$	PASS
122	5610	MCS0	9.93	9.840	23.98 or $11+10\log(B) = 30.23$	PASS
155	5775	MCS0	10.78	11.967	30	PASS

802.11ac_VHT80_Aux1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	11.07	12.794	23.98	PASS
58	5290	MCS0	10.25	10.593	23.98 or $11+10\log(B) = 30.17$	PASS
106	5530	MCS0	8.81	7.603	23.98 or $11+10\log(B) = 30.30$	PASS
122	5610	MCS0	8.89	7.745	23.98 or $11+10\log(B) = 30.23$	PASS
155	5775	MCS0	8.78	7.551	30	PASS

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Conducted output power (IC)

802.11a Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	10.59	11.455	23.98 or 11+10log(B) = 23.15	PASS
60	5300	10.58	11.429	23.98 or 11+10log(B) = 23.16	PASS
64	5320	10.56	11.376	23.98 or 11+10log(B) = 23.16	PASS
100	5500	10.45	11.092	23.98 or 11+10log(B) = 23.14	PASS
116	5580	10.47	11.143	23.98 or 11+10log(B) = 23.14	PASS
140	5700	10.49	11.194	23.98 or 11+10log(B) = 23.13	PASS
149	5745	11.27	13.397	30	PASS
157	5785	11.24	13.305	30	PASS
165	5825	11.26	13.366	30	PASS

802.11a Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	10.78	11.967	23.98 or 11+10log(B) = 23.15	PASS
60	5300	10.73	11.830	23.98 or 11+10log(B) = 23.16	PASS
64	5320	10.75	11.885	23.98 or 11+10log(B) = 23.16	PASS
100	5500	9.36	8.630	23.98 or 11+10log(B) = 23.14	PASS
116	5580	9.34	8.590	23.98 or 11+10log(B) = 23.14	PASS
140	5700	9.35	8.610	23.98 or 11+10log(B) = 23.13	PASS
149	5745	9.25	8.414	30	PASS
157	5785	9.29	8.492	30	PASS
165	5825	9.27	8.453	30	PASS

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802.11n_HT20_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	10.15	10.351	23.98 or $11+10\log(B) = 23.47$	PASS
60	5300	10.51	11.246	23.98 or $11+10\log(B) = 23.46$	PASS
64	5320	10.58	11.429	23.98 or $11+10\log(B) = 23.47$	PASS
100	5500	10.54	11.324	23.98 or $11+10\log(B) = 23.47$	PASS
116	5580	10.45	11.092	23.98 or $11+10\log(B) = 23.46$	PASS
140	5700	10.48	11.169	23.98 or $11+10\log(B) = 23.46$	PASS
149	5745	11.26	13.366	30	PASS
157	5785	11.26	13.366	30	PASS
165	5825	11.25	13.335	30	PASS

802.11n_HT20_Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	10.71	11.776	23.98 or $11+10\log(B) = 23.47$	PASS
60	5300	10.78	11.967	23.98 or $11+10\log(B) = 23.46$	PASS
64	5320	10.73	11.830	23.98 or $11+10\log(B) = 23.47$	PASS
100	5500	9.35	8.610	23.98 or $11+10\log(B) = 23.47$	PASS
116	5580	9.37	8.650	23.98 or $11+10\log(B) = 23.46$	PASS
140	5700	9.35	8.610	23.98 or $11+10\log(B) = 23.46$	PASS
149	5745	9.28	8.472	30	PASS
157	5785	9.23	8.375	30	PASS
165	5825	9.29	8.492	30	PASS

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802.11n_HT40_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	10.04	10.093	23.98 or $11+10\log(B) = 26.58$	PASS
62	5310	10.08	10.186	23.98 or $11+10\log(B) = 26.59$	PASS
102	5510	9.96	9.908	23.98 or $11+10\log(B) = 26.58$	PASS
110	5550	9.92	9.817	23.98 or $11+10\log(B) = 26.59$	PASS
134	5670	9.93	9.840	23.98 or $11+10\log(B) = 26.57$	PASS
151	5755	10.71	11.776	30	PASS
159	5795	10.78	11.967	30	PASS

802.11n_HT40_Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	10.23	10.544	23.98 or $11+10\log(B) = 26.58$	PASS
62	5310	10.27	10.641	23.98 or $11+10\log(B) = 26.59$	PASS
102	5510	8.85	7.674	23.98 or $11+10\log(B) = 26.58$	PASS
110	5550	8.80	7.586	23.98 or $11+10\log(B) = 26.59$	PASS
134	5670	8.86	7.691	23.98 or $11+10\log(B) = 26.57$	PASS
151	5755	8.78	7.551	30	PASS
159	5795	8.75	7.499	30	PASS

802.11ac_VHT80_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	10.06	10.139	23.98 or $11+10\log(B) = 29.76$	PASS
106	5530	9.91	9.795	23.98 or $11+10\log(B) = 29.76$	PASS
155	5775	10.78	11.967	30	PASS

802.11ac_VHT80_Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	10.25	10.593	23.98 or $11+10\log(B) = 29.76$	PASS
106	5530	8.81	7.603	23.98 or $11+10\log(B) = 29.76$	PASS
155	5775	8.78	7.551	30	PASS

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EIRP
802.11a_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	10.19	1.850	12.04	15.996	23.01 or 10+10log(B)= 22.13	PASS
44	5220	10.18	1.850	12.03	15.959	23.01 or 10+10log(B)= 22.14	PASS
48	5240	10.14	1.850	11.99	15.812	23.01 or 10+10log(B)= 22.15	PASS
52	5260	10.59	1.630	12.22	16.672	30 or 17+10log(B)= 29.15	PASS
60	5300	10.58	1.630	12.21	16.634	30 or 17+10log(B)= 29.16	PASS
64	5320	10.56	1.630	12.19	16.558	30 or 17+10log(B)= 29.16	PASS
100	5500	10.45	1.750	12.20	16.596	30 or 17+10log(B)= 29.14	PASS
116	5580	10.47	1.750	12.22	16.672	30 or 17+10log(B)= 29.14	PASS
140	5700	10.49	1.750	12.24	16.749	30 or 17+10log(B)= 29.13	PASS

802.11a_Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	11.51	2.190	13.70	23.442	23.01 or 10+10log(B)= 22.13	PASS
44	5220	11.54	2.190	13.73	23.605	23.01 or 10+10log(B)= 22.14	PASS
48	5240	11.54	2.190	13.73	23.605	23.01 or 10+10log(B)= 22.15	PASS
52	5260	10.78	1.830	12.61	18.239	30 or 17+10log(B)= 29.15	PASS
60	5300	10.73	1.830	12.56	18.030	30 or 17+10log(B)= 29.16	PASS
64	5320	10.75	1.830	12.58	18.113	30 or 17+10log(B)= 29.16	PASS
100	5500	9.36	1.300	10.66	11.641	30 or 17+10log(B)= 29.14	PASS
116	5580	9.34	1.300	10.64	11.588	30 or 17+10log(B)= 29.14	PASS
140	5700	9.35	1.300	10.65	11.614	30 or 17+10log(B)= 29.13	PASS

802.11n_HT20_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	10.13	1.850	11.98	15.776	23.01 or 10+10log(B)= 22.46	PASS
44	5220	10.18	1.850	12.03	15.959	23.01 or 10+10log(B)= 22.46	PASS
48	5240	10.17	1.850	12.02	15.922	23.01 or 10+10log(B)= 22.45	PASS
52	5260	10.15	1.630	11.78	15.066	30 or 17+10log(B)= 29.47	PASS
60	5300	10.51	1.630	12.14	16.368	30 or 17+10log(B)= 29.46	PASS
64	5320	10.58	1.630	12.21	16.634	30 or 17+10log(B)= 29.47	PASS
100	5500	10.54	1.750	12.29	16.943	30 or 17+10log(B)= 29.47	PASS
116	5580	10.45	1.750	12.20	16.596	30 or 17+10log(B)= 29.46	PASS
140	5700	10.48	1.750	12.23	16.711	30 or 17+10log(B)= 29.46	PASS

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802.11n_HT20_Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	11.51	2.190	13.70	23.442	23.01 or 10+10log(B)= 22.46	PASS
44	5220	11.57	2.190	13.76	23.768	23.01 or 10+10log(B)= 22.46	PASS
48	5240	11.56	2.190	13.75	23.714	23.01 or 10+10log(B)= 22.45	PASS
52	5260	10.71	1.830	12.54	17.947	30 or 17+10log(B)= 29.47	PASS
60	5300	10.78	1.830	12.61	18.239	30 or 17+10log(B)= 29.46	PASS
64	5320	10.73	1.830	12.56	18.030	30 or 17+10log(B)= 29.47	PASS
100	5500	9.35	1.300	10.65	11.614	30 or 17+10log(B)= 29.47	PASS
116	5580	9.37	1.300	10.67	11.668	30 or 17+10log(B)= 29.46	PASS
140	5700	9.35	1.300	10.65	11.614	30 or 17+10log(B)= 29.46	PASS

802.11n_HT40_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	9.65	1.850	11.50	14.125	23.01 or 10+10log(B)= 25.58	PASS
46	5230	9.61	1.850	11.46	13.996	23.01 or 10+10log(B)= 25.59	PASS
54	5270	10.04	1.630	11.67	14.689	30 or 17+10log(B)= 32.58	PASS
62	5310	10.08	1.630	11.71	14.825	30 or 17+10log(B)= 32.59	PASS
102	5510	9.96	1.750	11.71	14.825	30 or 17+10log(B)= 32.58	PASS
110	5550	9.92	1.750	11.67	14.689	30 or 17+10log(B)= 32.59	PASS
134	5670	9.93	1.750	11.68	14.723	30 or 17+10log(B)= 32.57	PASS

802.11n_HT40_Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	11.06	2.190	13.25	21.135	23.01 or 10+10log(B)= 25.58	PASS
46	5230	11.07	2.190	13.26	21.184	23.01 or 10+10log(B)= 25.59	PASS
54	5270	10.23	1.830	12.06	16.069	30 or 17+10log(B)= 32.58	PASS
62	5310	10.27	1.830	12.10	16.218	30 or 17+10log(B)= 32.59	PASS
102	5510	8.85	1.300	10.15	10.351	30 or 17+10log(B)= 32.58	PASS
110	5550	8.80	1.300	10.10	10.233	30 or 17+10log(B)= 32.59	PASS
134	5670	8.86	1.300	10.16	10.375	30 or 17+10log(B)= 32.57	PASS

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802.11ac_VHT80_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	9.61	1.850	11.46	13.996	23.01 or 10+10log(B)= 28.76	PASS
58	5290	10.06	1.630	11.69	14.757	30 or 17+10log(B)= 35.76	PASS
106	5530	9.91	1.750	11.66	14.655	30 or 17+10log(B)= 35.76	PASS

802.11ac_VHT80_Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	11.07	2.190	13.26	21.184	23.01 or 10+10log(B)= 28.76	PASS
58	5290	10.25	1.830	12.08	16.144	30 or 17+10log(B)= 35.76	PASS
106	5530	8.81	1.300	10.11	10.257	30 or 17+10log(B)= 35.76	PASS

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10. PEAK POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

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

IC

OPERZTION FREQUENCY BAND	LIMIT
5150~5250 MHz	EIRP spectral density 10 dBm / MHz
5250~5350 MHz	11dBm / MHz
5470-5600 MHz and 5650-5725 MHz	11dBm / MHz
5725~5850 MHz	30dBm / 500 kHz

If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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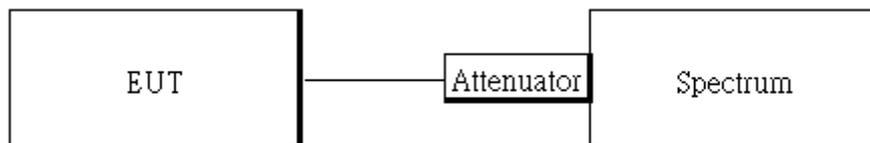
10.2 Measurement Procedure

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 Spectrum.
4. **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 \geq 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)
5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

10.3 Measurement Equipment Used

Conducted Emission Test Site					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
DC Block	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017

10.4 Test Set-up



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10.5 Measurement Result

POWER DENSITY 802.11a MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-0.72	11	-11.72
5220	-1.16	11	-12.16
5240	-1.51	11	-12.51
5260	-1.36	11	-12.36
5300	-3.24	11	-14.24
5320	-1.86	11	-12.86
5500	-0.14	11	-11.14
5580	-1.36	11	-12.36
5700	-3.19	11	-14.19
5745	5.25	30	-24.75
5785	5.83	30	-24.17
5825	5.47	30	-24.53

POWER DENSITY 802.11n HT20 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-0.10	11	-11.10
5220	-0.59	11	-11.59
5240	-3.57	11	-14.57
5260	-2.91	11	-13.91
5300	-1.84	11	-12.84
5320	-2.38	11	-13.38
5500	-1.35	11	-12.35
5580	-3.18	11	-14.18
5700	-2.24	11	-13.24
5745	5.44	30	-24.56
5785	5.42	30	-24.58
5825	5.35	30	-24.65

POWER DENSITY 802.11n HT40 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5190	-7.2	11	-18.20
5230	-9.65	11	-20.65
5270	-7.12	11	-18.12
5310	-6.31	11	-17.31
5510	-5.62	11	-16.62
5550	-9.87	11	-20.87
5670	-10.61	11	-21.61
5755	2.96	30	-27.04
5795	3.27	30	-26.73

POWER DENSITY 802.11 ac VHT80 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5210	-9.23	11	-20.23
5290	-10.50	11	-21.50
5530	-9.31	11	-20.31
5610	-12.08	11	-23.08
5775	0.23	30	-29.77

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EIRP Power Density

EIRP spectral density 802.11a MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	-0.72	2.19	1.47	10	-10.72
5220	-1.16	2.19	1.03	10	-11.16
5240	-1.51	2.19	0.68	10	-11.51

EIRP spectral density 802.11n HT20 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	-0.10	2.19	2.09	10	-10.10
5220	-0.59	2.19	1.60	10	-10.59
5240	-3.57	2.19	-1.38	10	-13.57

EIRP spectral density 802.11n HT40 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	-7.20	2.19	-5.01	10	-17.20
5220	-9.65	2.19	-7.46	10	-19.65

EIRP spectral density 802.11ac VHT80 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5210	-9.23	2.19	-7.04	10	-19.23

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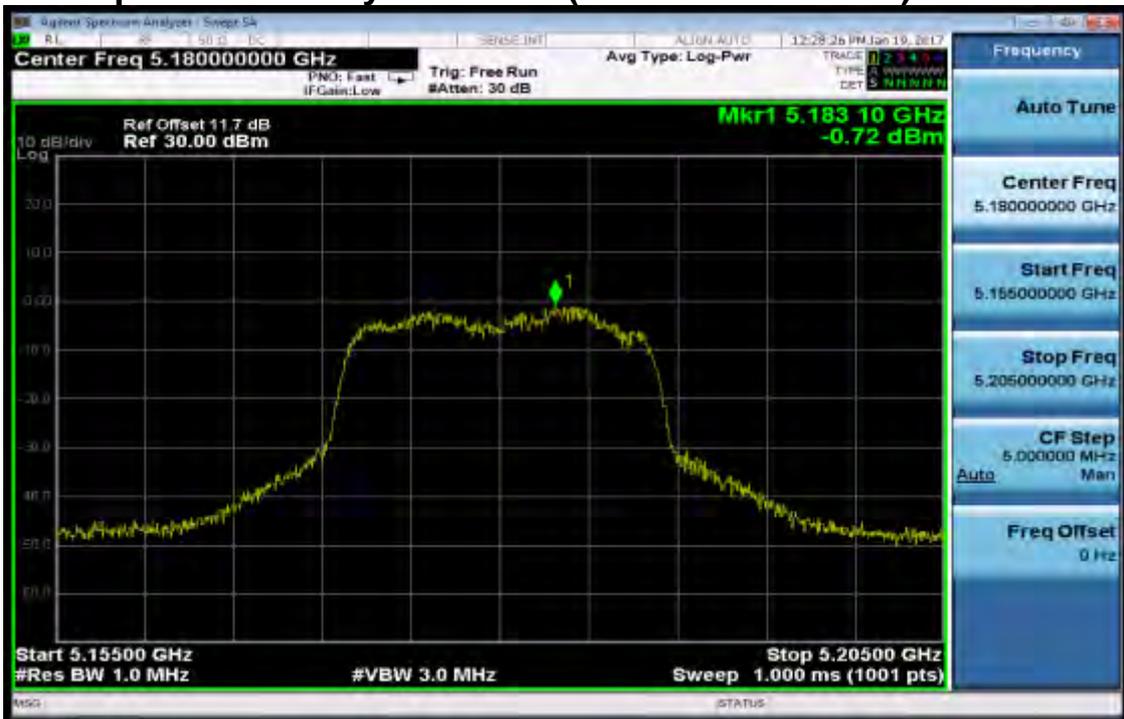
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802.11a 5150~5250 MHz Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



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



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



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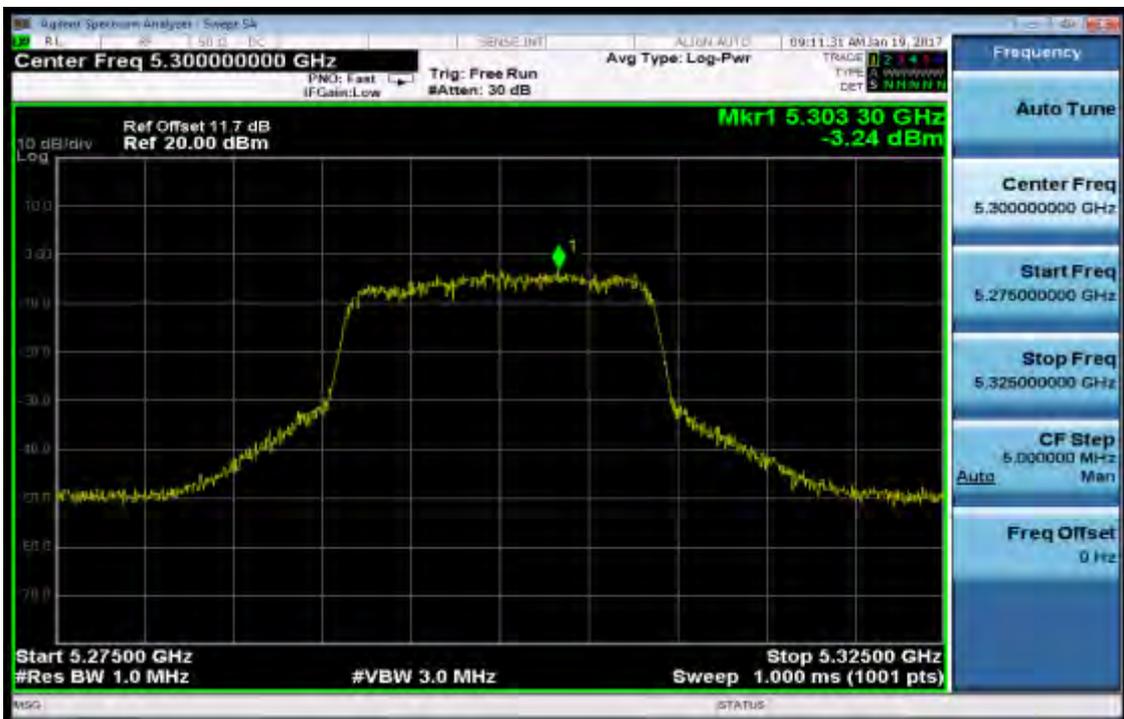
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802.11a 5250~5350 MHz
Peak Power Spectral Density Data Plot (CH Low 5260 MHz)



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



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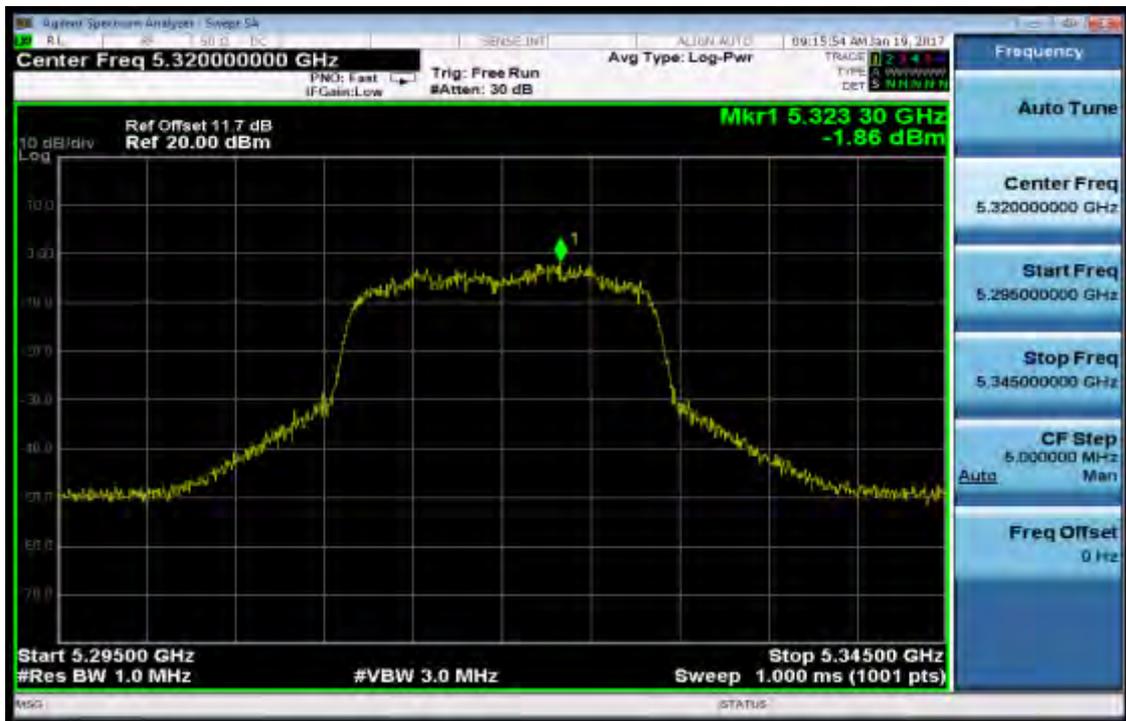
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Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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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 Mid 5580 MHz)



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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)



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



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



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



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



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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)



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



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



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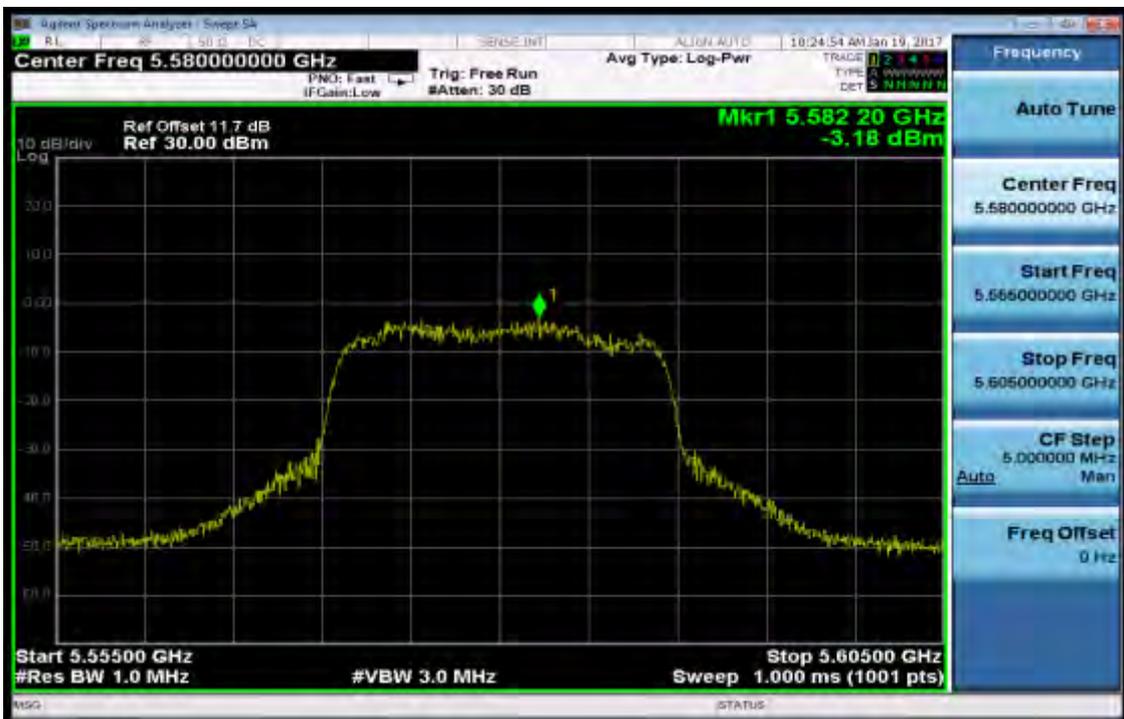
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802.11n HT20, 5470~5725 MHz
Peak Power Spectral Density Data Plot (CH Low 5500 MHz)



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



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



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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)



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



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



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



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



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



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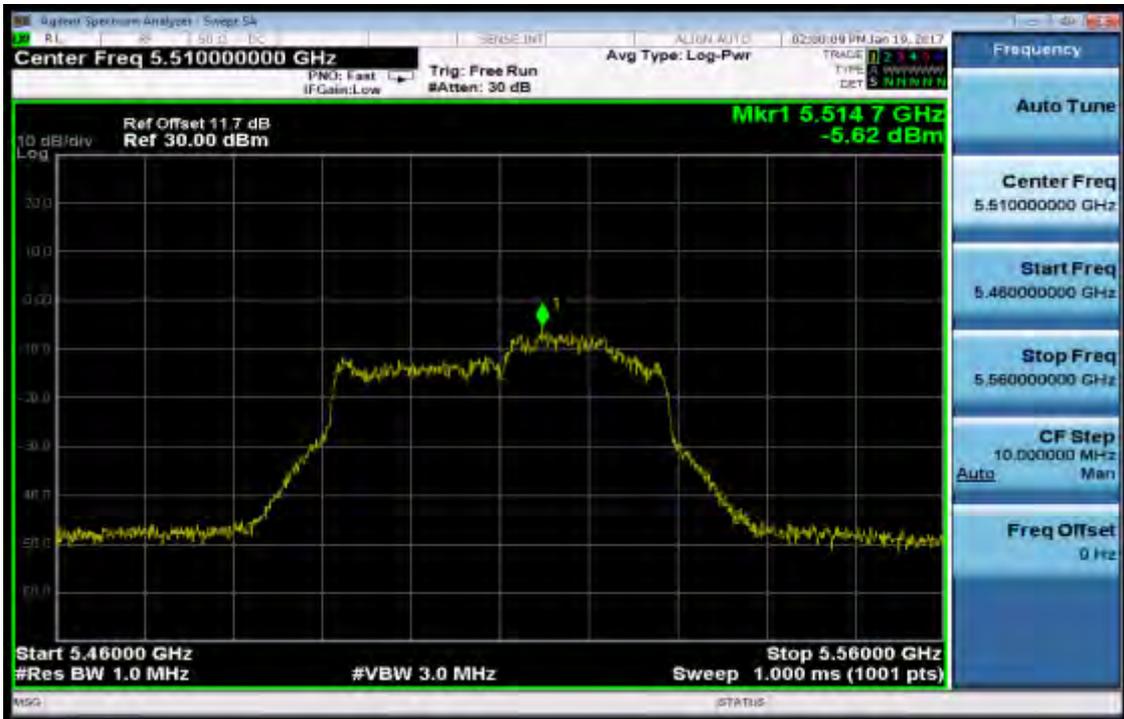
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802.11n HT40, 5470~5725 MHz
Peak Power Spectral Density Data Plot (CH Low 5510 MHz)



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



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



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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 High 5795 MHz)



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**802.11ac VHT80, 5150~5250 MHz
Peak Power Spectral Density Data Plot (CH Mid 5210 MHz)**



**802.11ac VHT80, 5250~5350 MHz
Peak Power Spectral Density Data Plot (CH Mid 5290 MHz)**



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802.11ac VHT80, 5470~5725 MHz
Peak Power Spectral Density Data Plot (CH Low 5530 MHz)



802.11ac VHT80, 5470~5725 MHz
Peak Power Spectral Density Data Plot (CH High 5610 MHz)



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802.11ac VHT80, 5725~5850 MHz

Peak Power Spectral Density Data Plot (CH Mid 5775 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
RSS-247 6.2.4 (2)	PK: -27 (dBm/MHz) PK: -17 (dBm/MHz)	PK: 68.3 (dBμV/m) PK: 78.2 (dBμV/m)
*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)

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11.2 Measurement Equipment Used

SGS 966 Chamber No.C					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESU 40	100363	04/12/2016	04/11/2017
Loop Antenna	ETS-Lindgren	6502	00143303	12/23/2016	12/22/2017
Broadband Antenna	TESEQ	CBL 6112D	35240	11/03/2016	11/02/2017
Horn Antenna	ETS-Lindgren	3117	00143272	12/15/2016	12/16/2017
Horn Antenna	Schwarzbeck	BBHA9170	185	07/24/2016	07/23/2017
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2016	12/11/2017
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2016	12/11/2017
Pre Amplifier	R&S	SCU-18	10204	12/12/2016	12/11/2017
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF27	12/12/2016	12/11/2017
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2016	05/03/2017
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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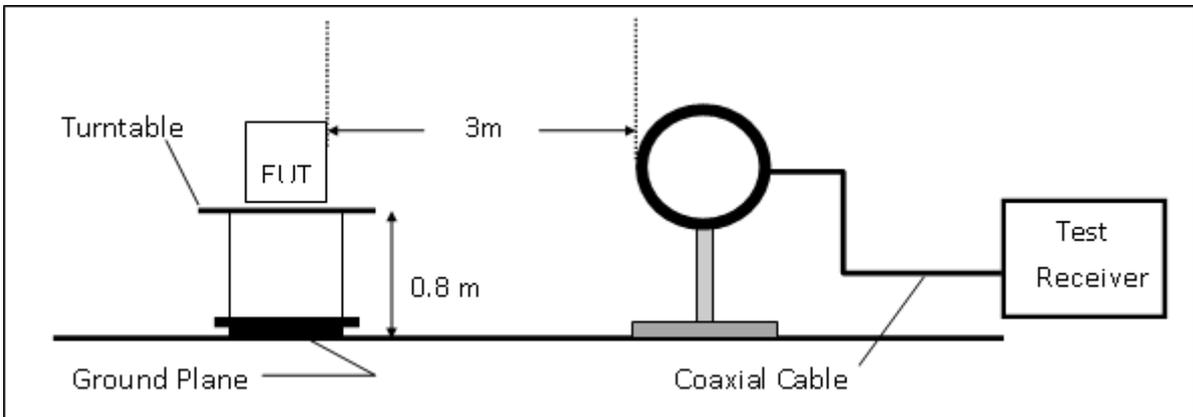
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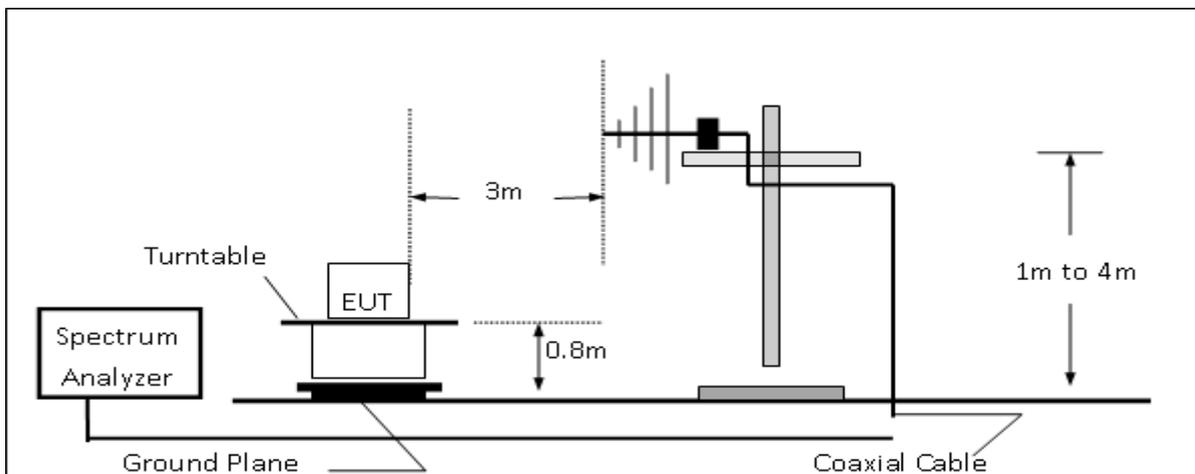
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11.3 Test SET-UP

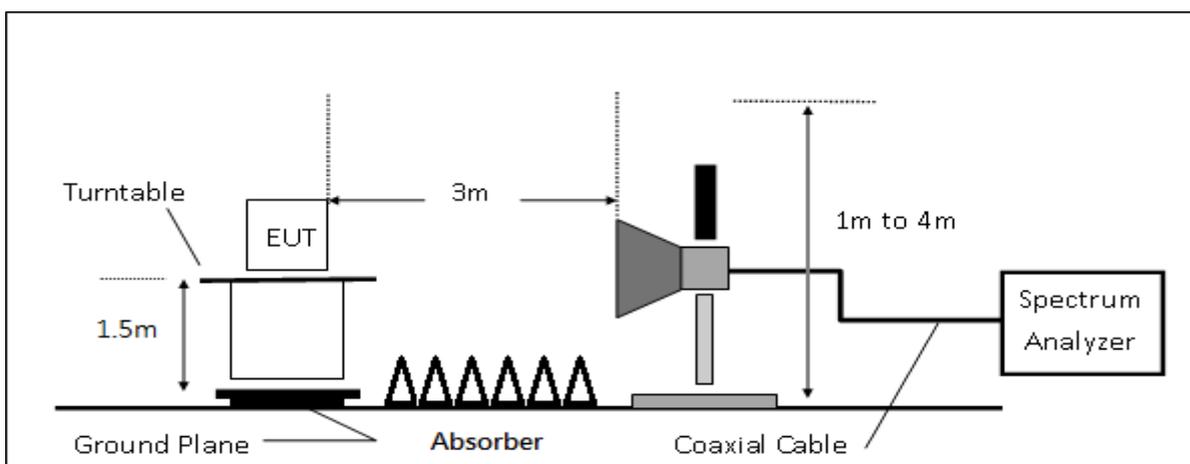
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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11.4 Measurement Procedure

1. The 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.
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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Note :

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

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

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

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

11.7 Measurement Result

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

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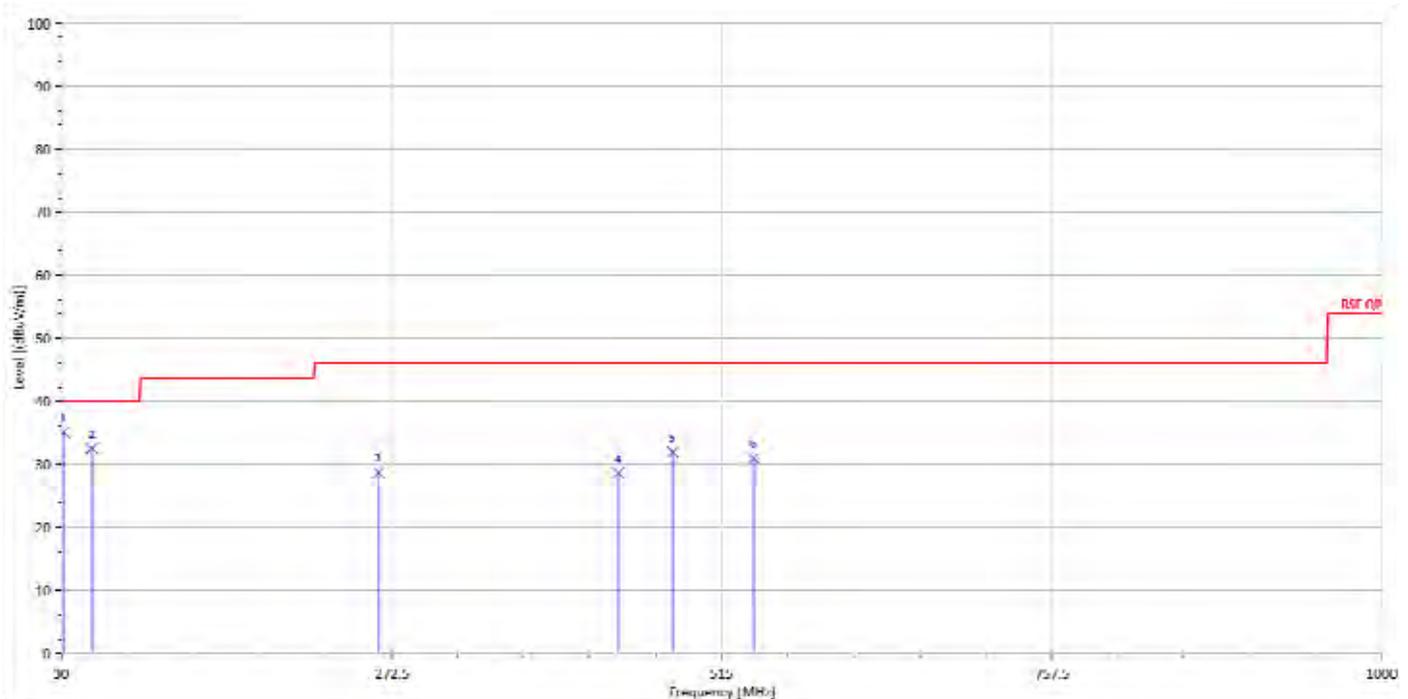
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Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

802.11a 5150~5250 MHz

Operation Mode :	802.11a	Test Date :	2017/1/23
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	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
31.94	S	Peak	43.32	-8.22	35.09	40	-4.91
52.31	S	Peak	52.68	-20.18	32.51	40	-7.49
262.80	S	Peak	42.40	-13.81	28.59	46	-17.41
439.34	S	Peak	37.74	-9.23	28.51	46	-17.49
479.11	S	Peak	39.61	-7.76	31.85	46	-14.15
538.28	S	Peak	38.26	-7.37	30.89	46	-15.11

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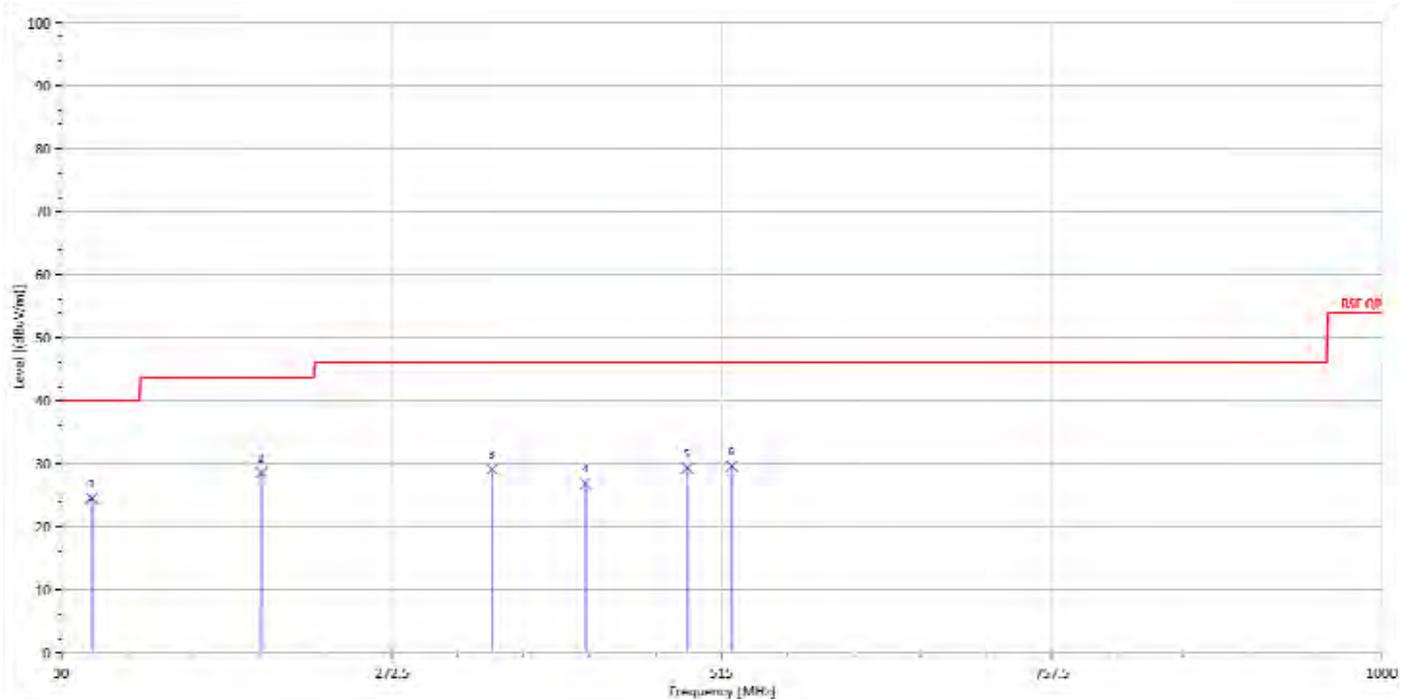
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Operation Mode : 802.11a Test Date : 2017/1/23
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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
52.31	S	Peak	44.70	-20.18	24.53	40	-15.47
177.44	S	Peak	47.01	-18.53	28.48	43.5	-15.02
346.22	S	Peak	40.58	-11.54	29.04	46	-16.96
415.09	S	Peak	35.95	-9.11	26.83	46	-19.17
489.78	S	Peak	36.88	-7.65	29.23	46	-16.77
522.76	S	Peak	36.81	-7.25	29.56	46	-16.44

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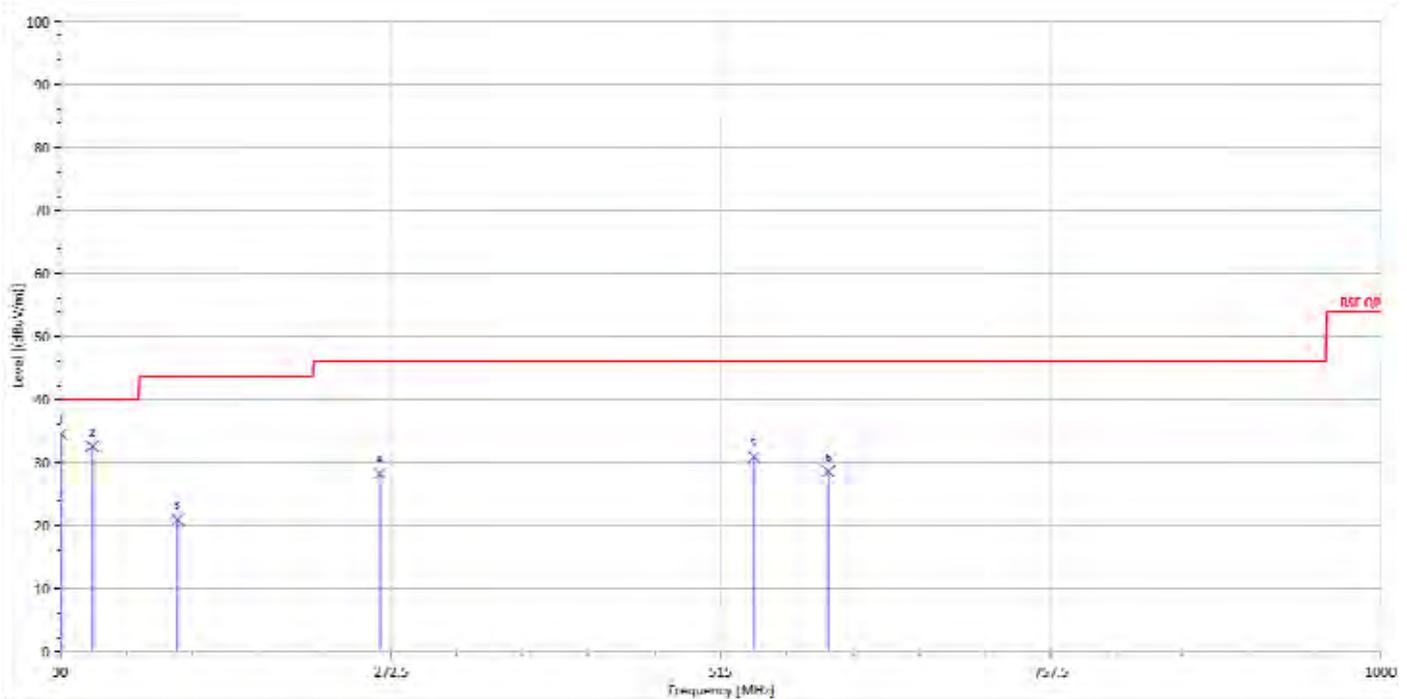
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802.11a 5250~5350 MHz

Operation Mode :	802.11a	Test Date :	2017/1/23
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	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
30.97	S	Peak	42.21	-7.70	34.51	40	-5.49
53.28	S	Peak	53.04	-20.53	32.51	40	-7.49
116.33	S	Peak	37.00	-16.08	20.92	43.5	-22.58
264.74	S	Peak	41.92	-13.76	28.17	46	-17.83
539.25	S	Peak	38.22	-7.38	30.84	46	-15.16
594.54	S	Peak	34.27	-5.76	28.51	46	-17.49

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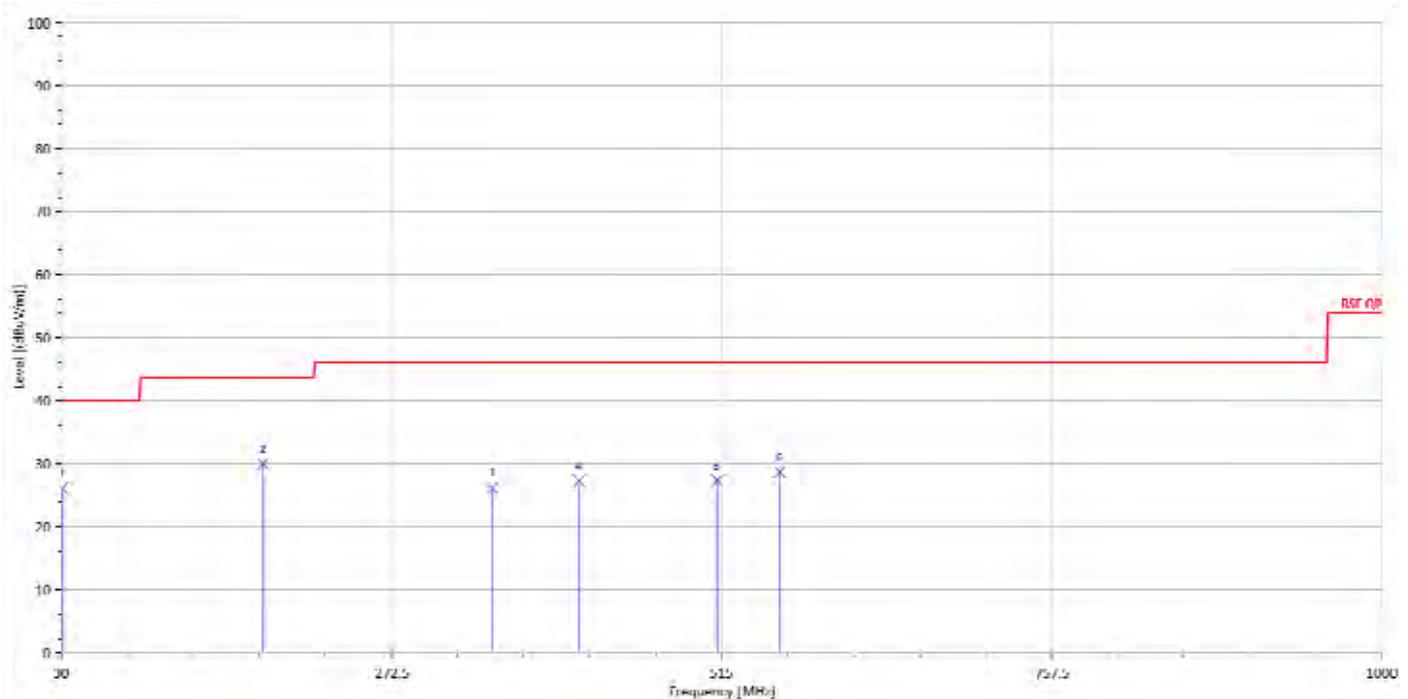
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Operation Mode : 802.11a Test Date : 2017/1/23
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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
30.97	S	Peak	33.85	-7.70	26.14	40	-13.86
178.41	S	Peak	48.58	-18.64	29.94	43.5	-13.56
346.22	S	Peak	37.74	-11.54	26.20	46	-19.80
410.24	S	Peak	36.37	-9.16	27.21	46	-18.79
512.09	S	Peak	34.84	-7.51	27.33	46	-18.67
557.68	S	Peak	35.50	-6.91	28.60	46	-17.40

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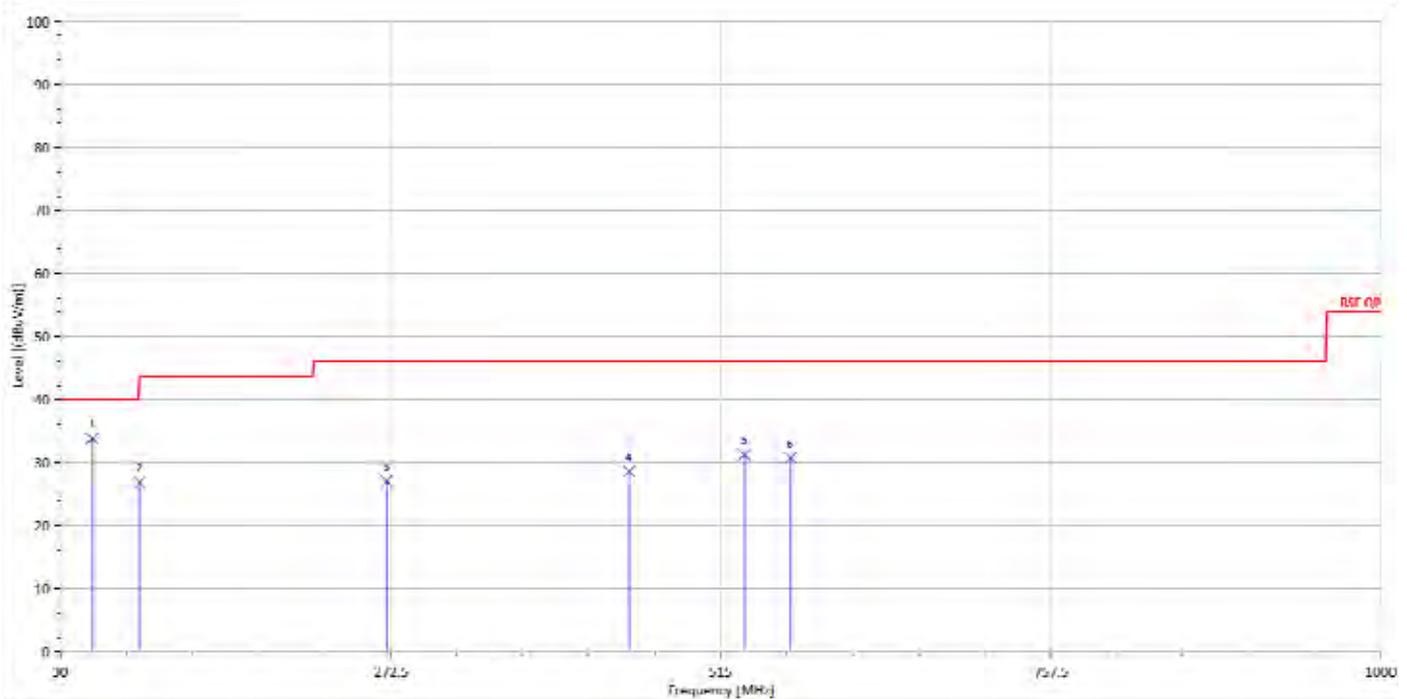
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802.11a, 5470~5725 MHz

Operation Mode :	802.11a	Test Date :	2017/1/23
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	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
53.28	S	Peak	54.30	-20.53	33.77	40	-6.23
88.20	S	Peak	46.53	-19.77	26.76	43.5	-16.74
269.59	S	Peak	40.92	-13.90	27.02	46	-18.98
448.07	S	Peak	37.40	-8.89	28.50	46	-17.50
532.46	S	Peak	38.28	-7.09	31.18	46	-14.82
566.41	S	Peak	37.23	-6.55	30.68	46	-15.32

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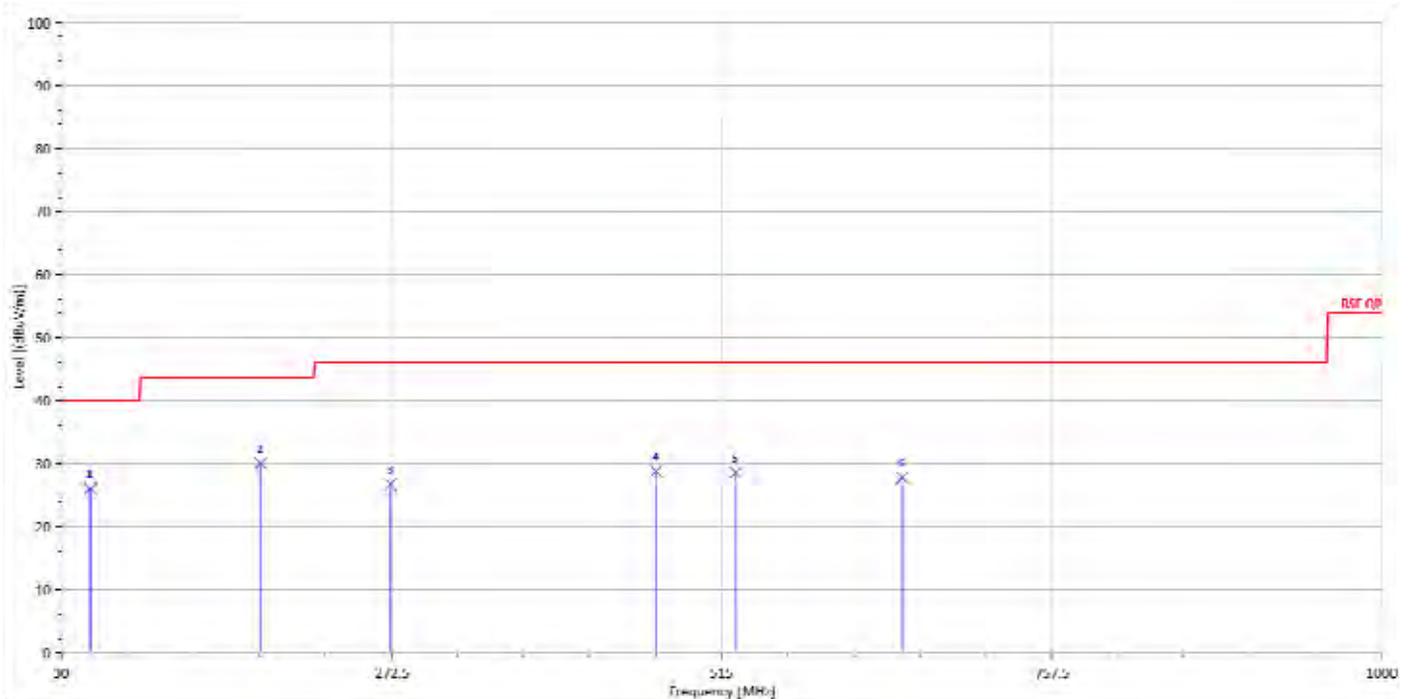
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Operation Mode : 802.11a Test Date : 2017/1/23
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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
51.34	S	Peak	45.91	-19.88	26.03	40	-13.97
176.47	S	Peak	48.52	-18.52	29.99	43.5	-13.51
271.53	S	Peak	40.59	-13.90	26.69	46	-19.31
466.50	S	Peak	36.64	-7.93	28.71	46	-17.29
525.67	S	Peak	36.00	-7.47	28.53	46	-17.47
647.89	S	Peak	32.72	-5.02	27.70	46	-18.30

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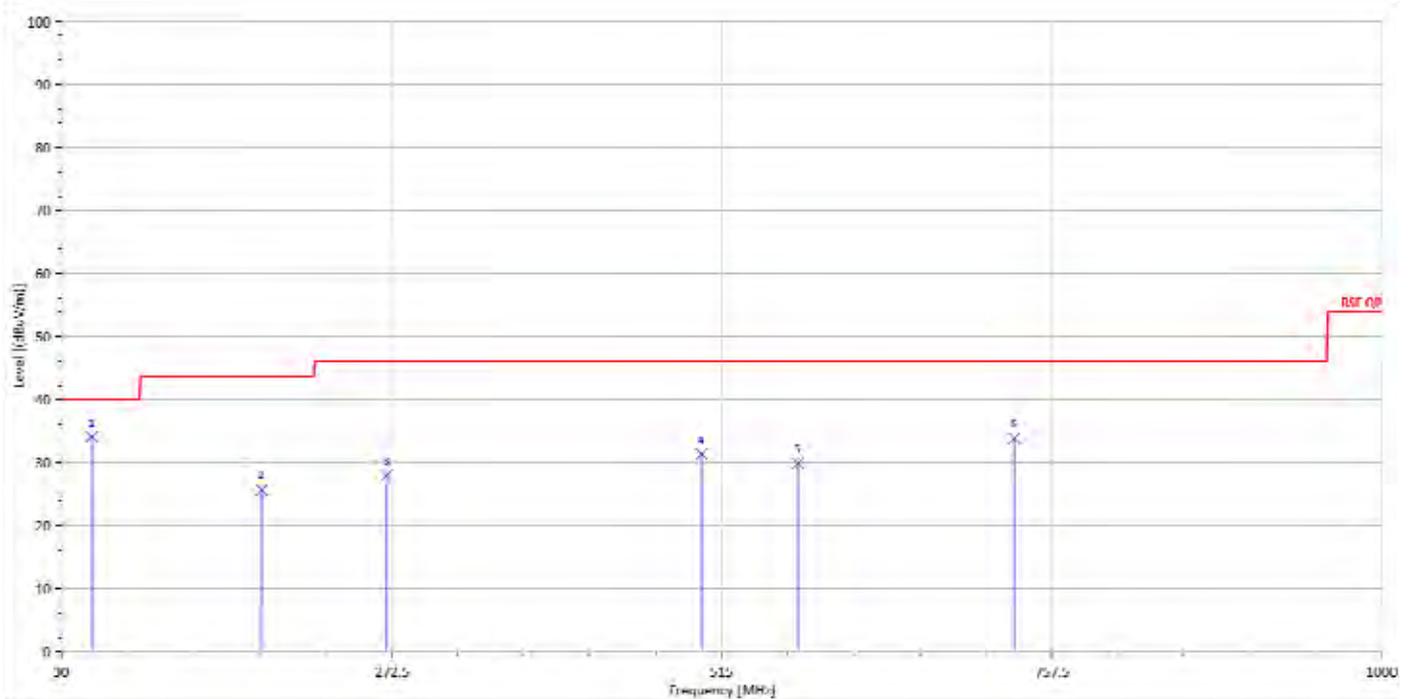
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802.11a, 5725~5850 MHz

Operation Mode :	802.11a	Test Date :	2017/1/23
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	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
52.31	S	Peak	54.25	-20.18	34.07	40	-5.93
177.44	S	Peak	44.23	-18.53	25.70	43.5	-17.80
268.62	S	Peak	41.75	-13.88	27.87	46	-18.13
500.45	S	Peak	38.81	-7.53	31.28	46	-14.72
571.26	S	Peak	36.17	-6.37	29.80	46	-16.20
730.34	S	Peak	38.52	-4.67	33.85	46	-12.15

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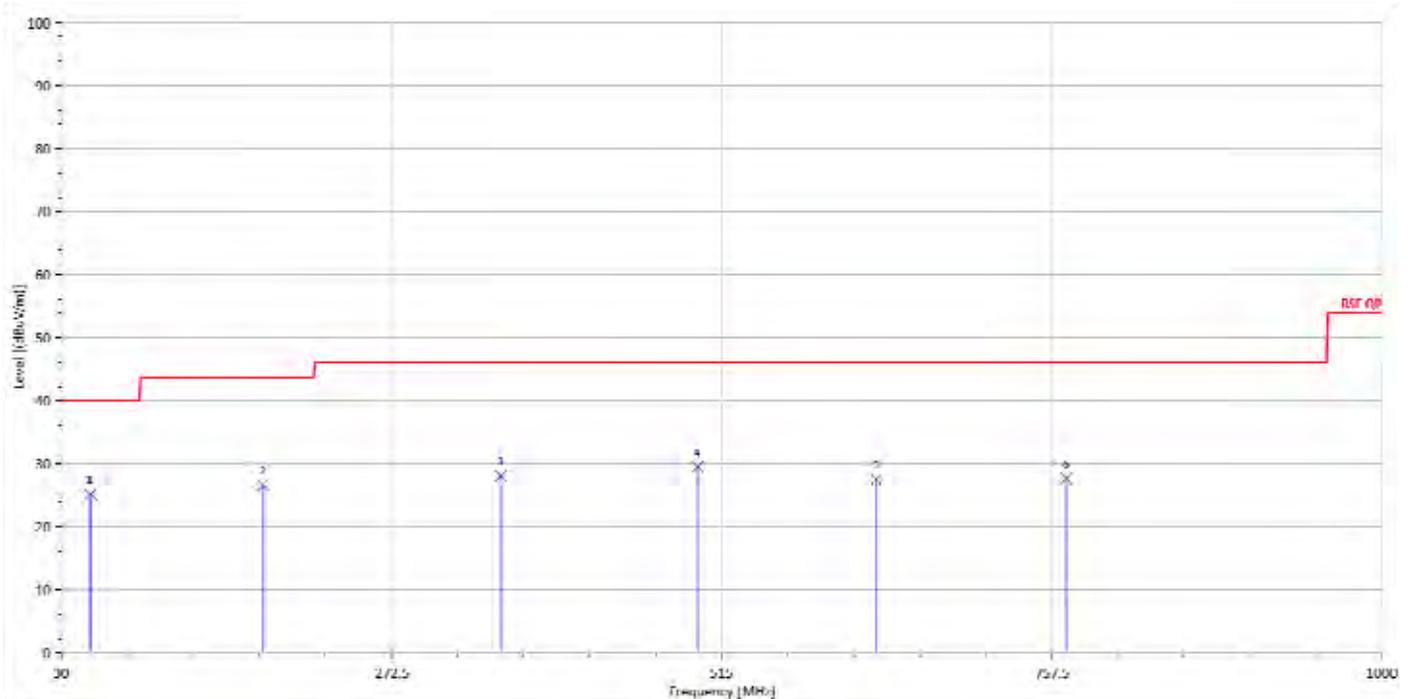
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Operation Mode : 802.11a Test Date : 2017/1/23
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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
51.34	S	Peak	45.04	-19.88	25.16	40	-14.84
178.41	S	Peak	45.20	-18.64	26.56	43.5	-16.94
353.01	S	Peak	39.26	-11.29	27.97	46	-18.03
497.54	S	Peak	37.15	-7.72	29.43	46	-16.57
628.49	S	Peak	33.50	-6.08	27.42	46	-18.58
768.17	S	Peak	31.82	-4.23	27.58	46	-18.42

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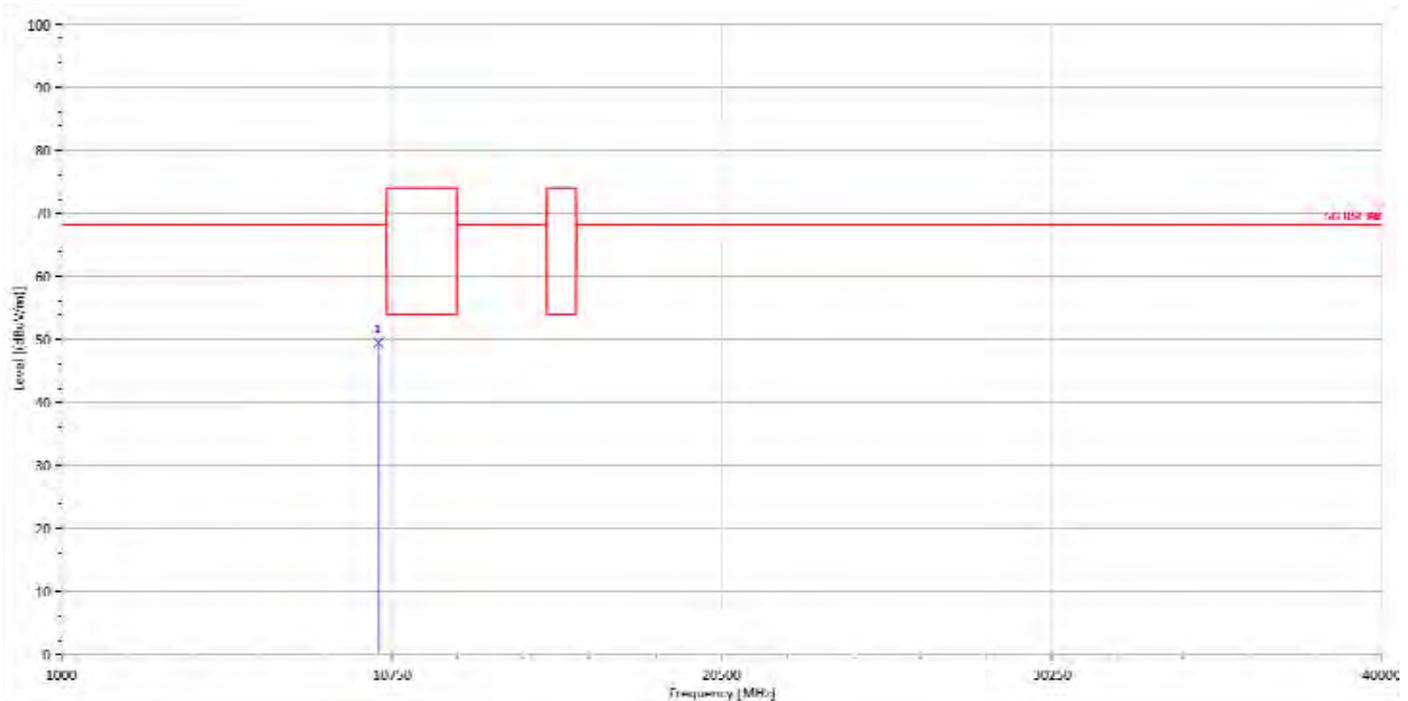
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Above 1GHz Worst-Case Data:

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

Operation Mode :	802.11a	Test Date :	2017/1/23
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	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	29.27	20.18	49.45	68.3	-18.85

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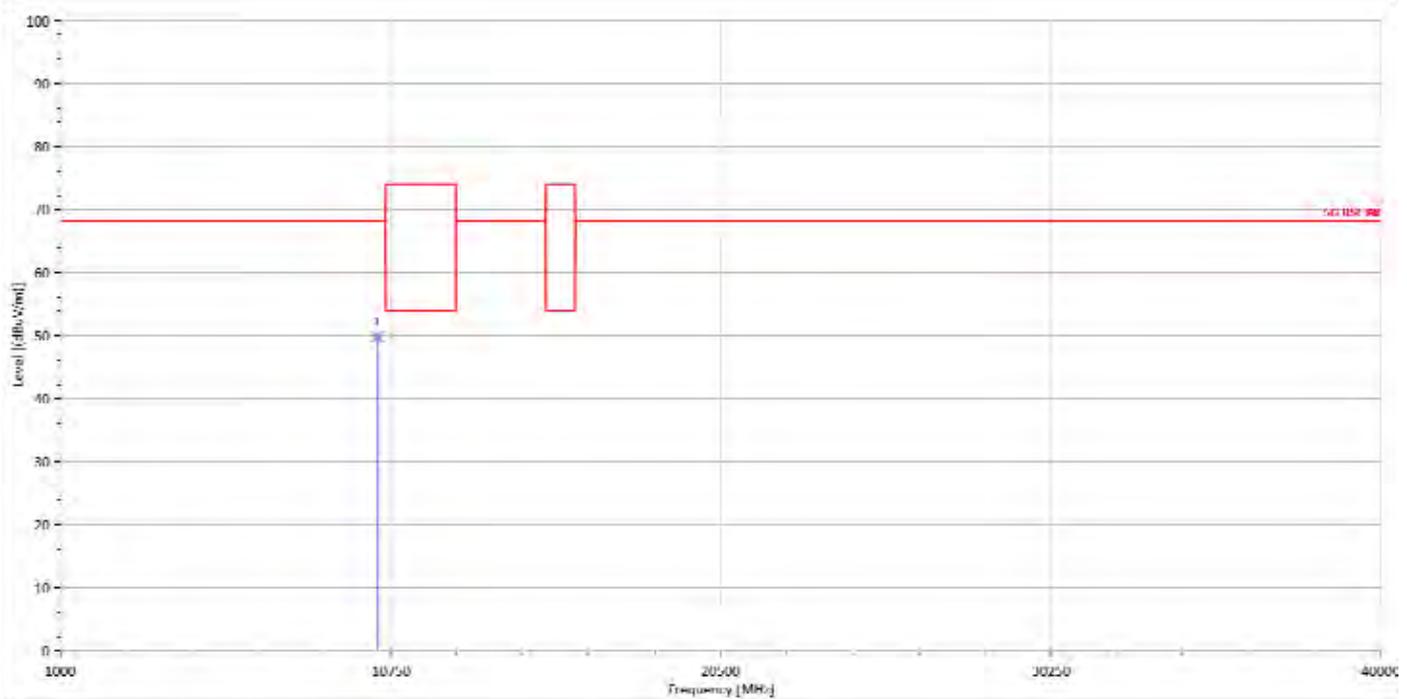
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Operation Mode : 802.11a Test Date : 2017/1/23
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	29.67	20.18	49.85	68.3	-18.45

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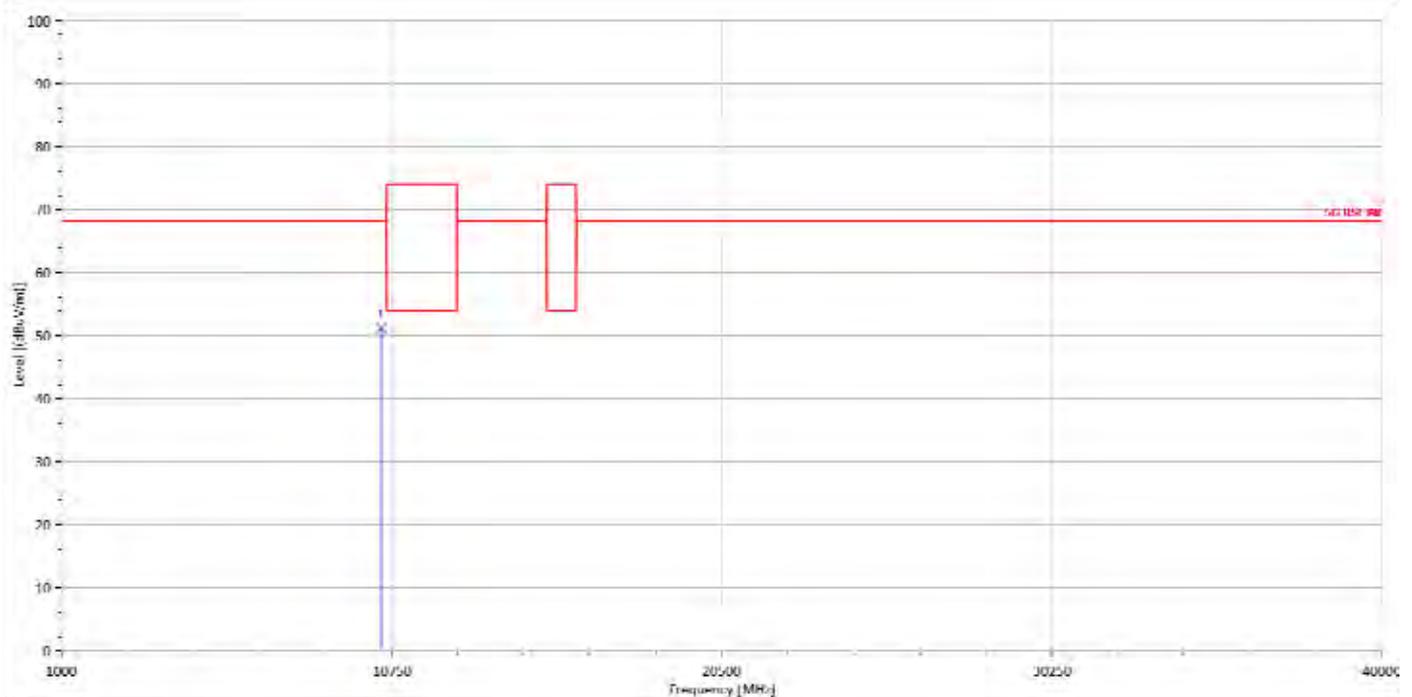
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Operation Mode : 802.11a Test Date : 2017/1/23
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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	30.90	20.29	51.19	68.3	-17.11

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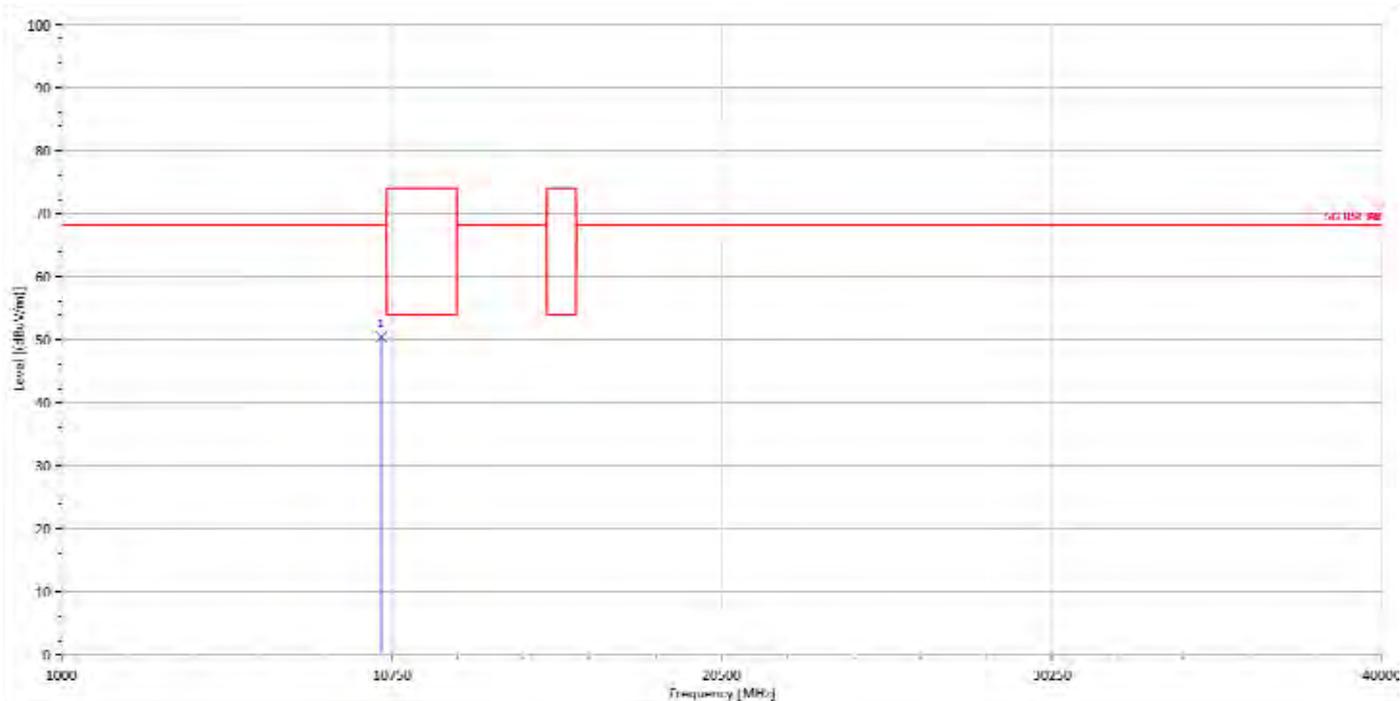
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Operation Mode : 802.11a Test Date : 2017/1/23
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	30.14	20.29	50.43	68.3	-17.87

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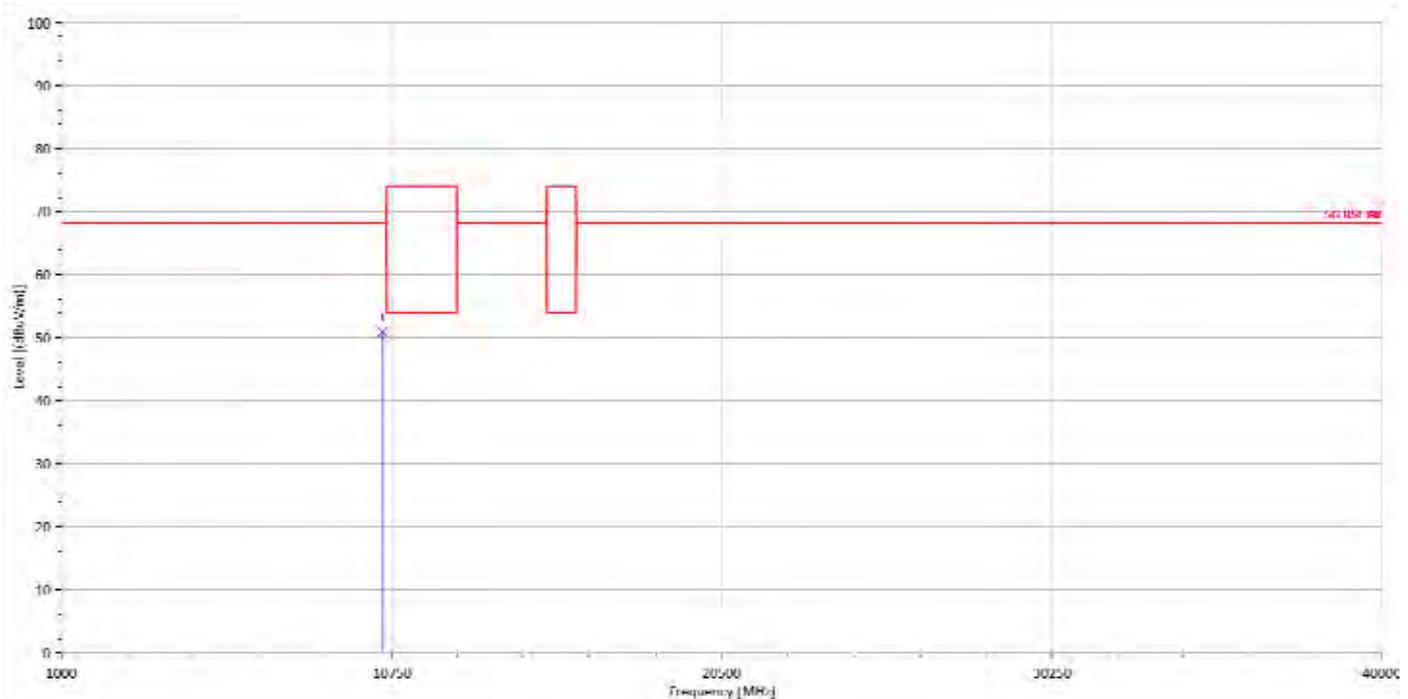
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Operation Mode :	802.11a	Test Date :	2017/1/23
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



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	30.24	20.68	50.91	68.3	-17.39

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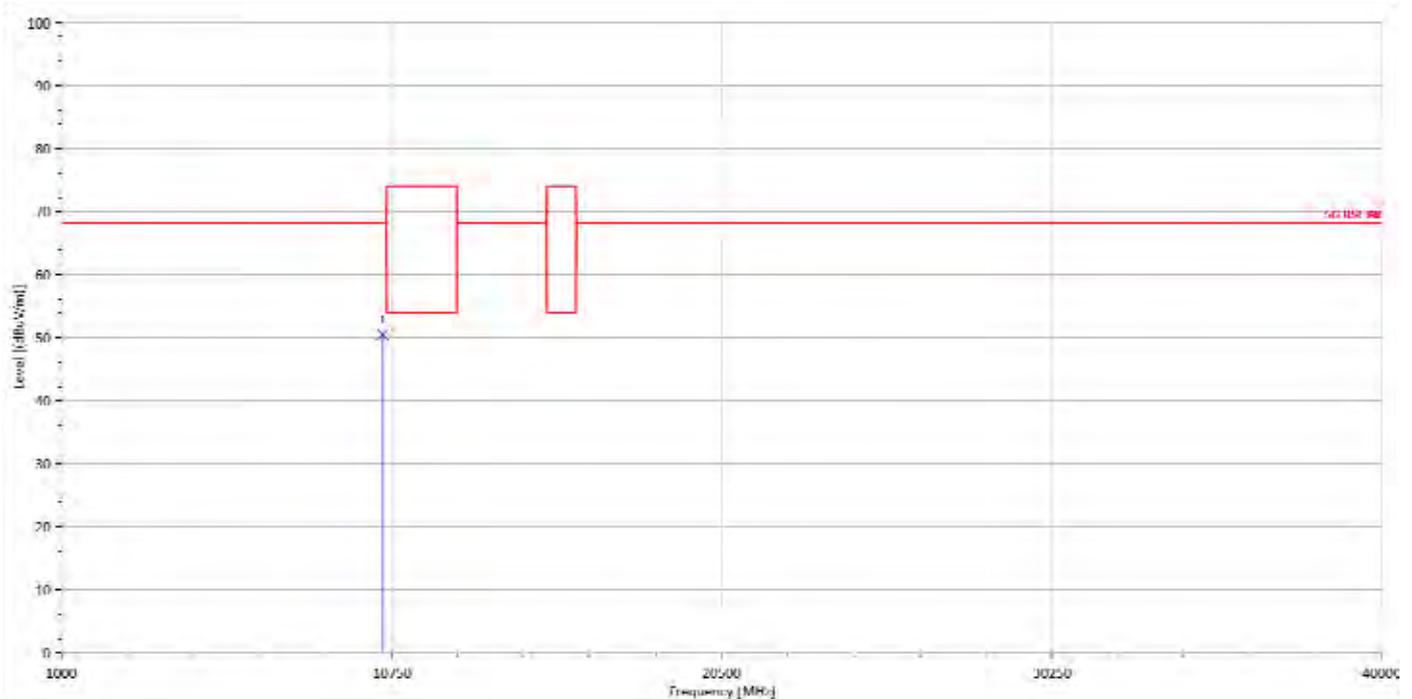
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Operation Mode :	802.11a	Test Date :	2017/1/23
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



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	29.81	20.68	50.49	68.3	-17.81

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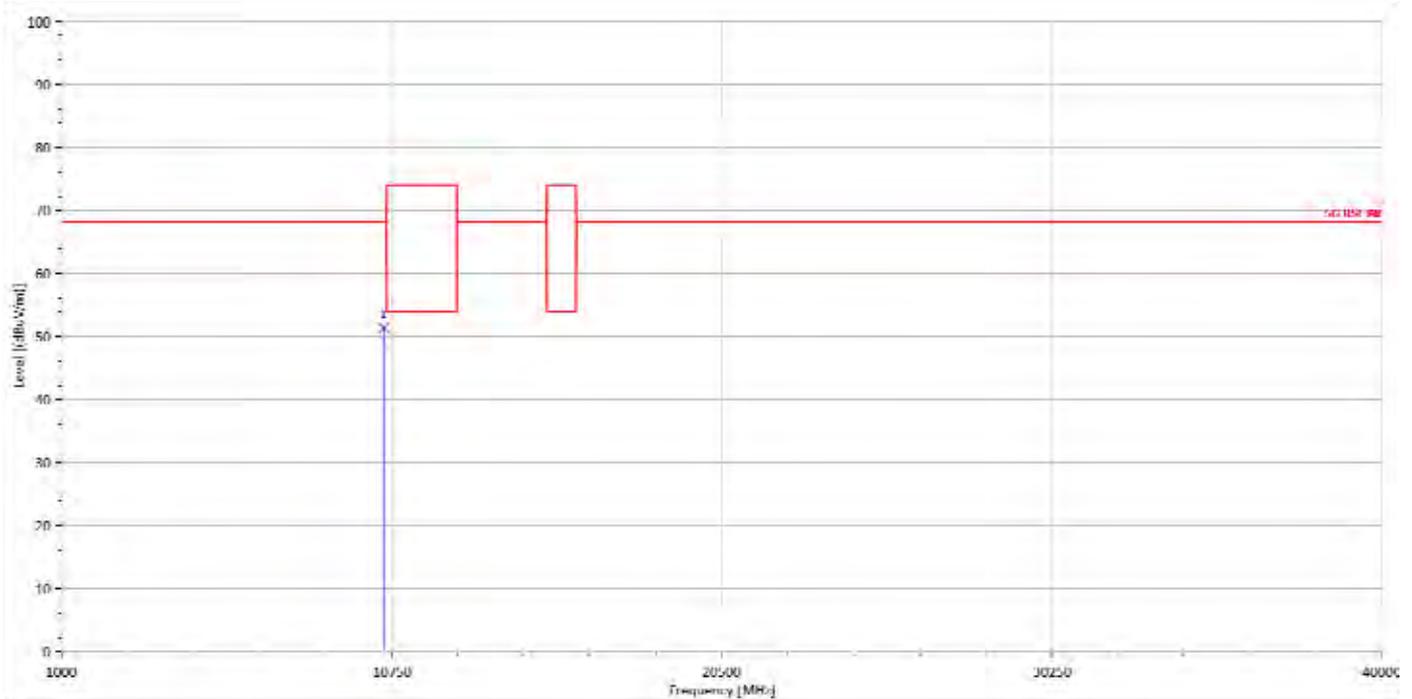
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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode :	802.11a	Test Date :	2017/1/23
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	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
10520.00	H	Peak	31.26	20.10	51.36	68.3	-16.94

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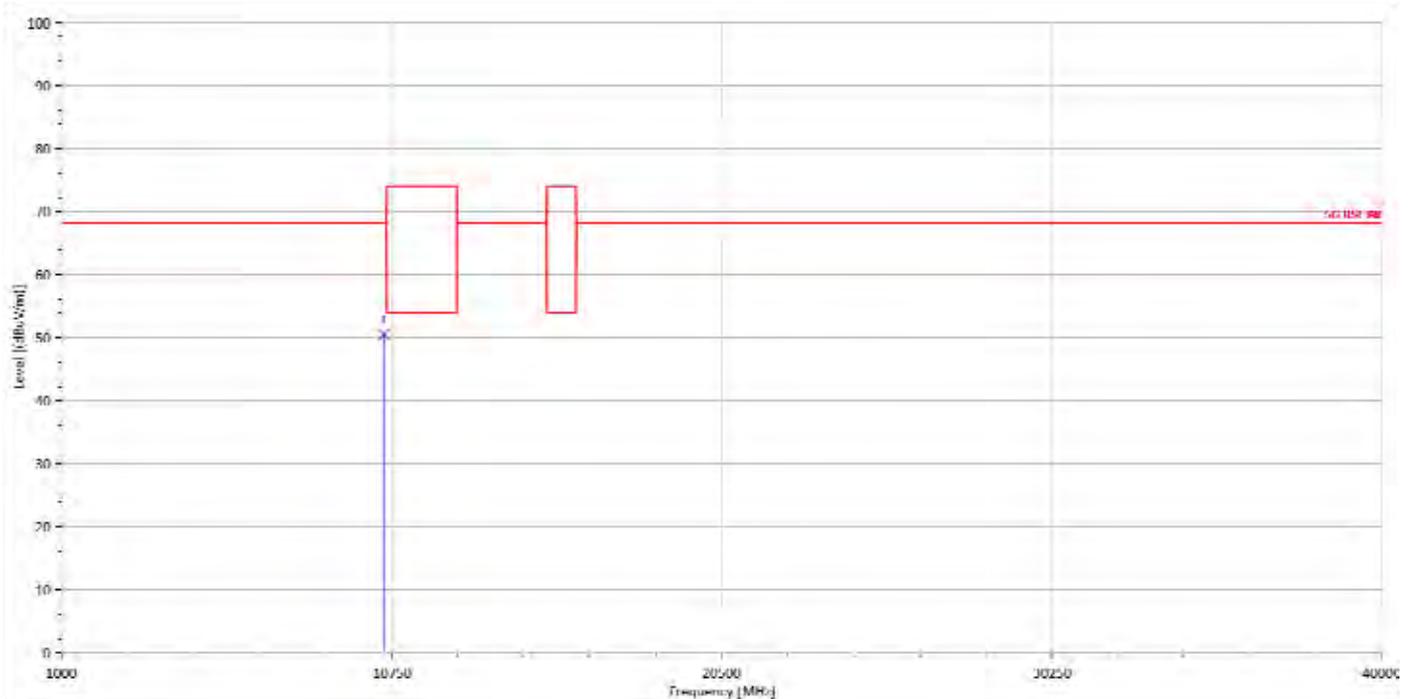
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Operation Mode : 802.11a Test Date : 2017/1/23
 Fundamental Frequency : 5260 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	30.42	20.10	50.52	68.3	-17.78

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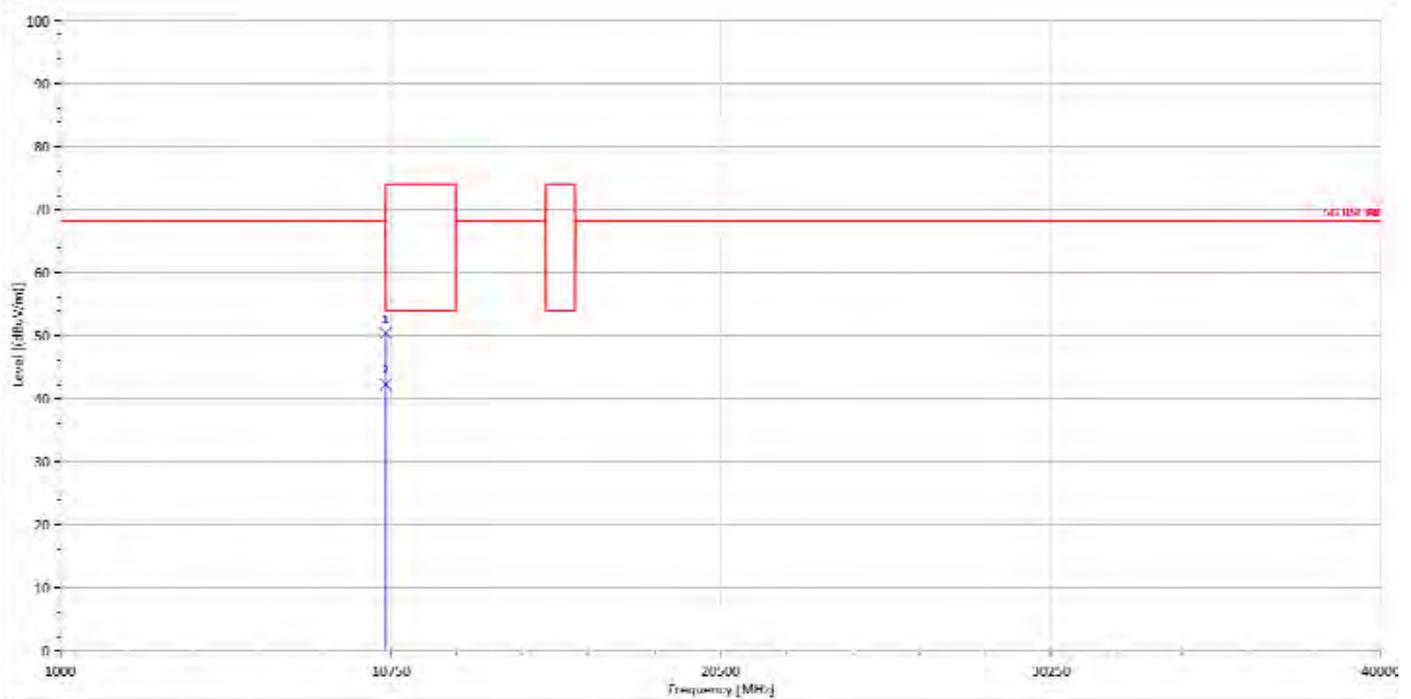
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Operation Mode : 802.11a Test Date : 2017/1/23
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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	30.25	20.17	50.41	74	-23.59
10600.00	H	Average	22.03	20.17	42.20	54	-11.80

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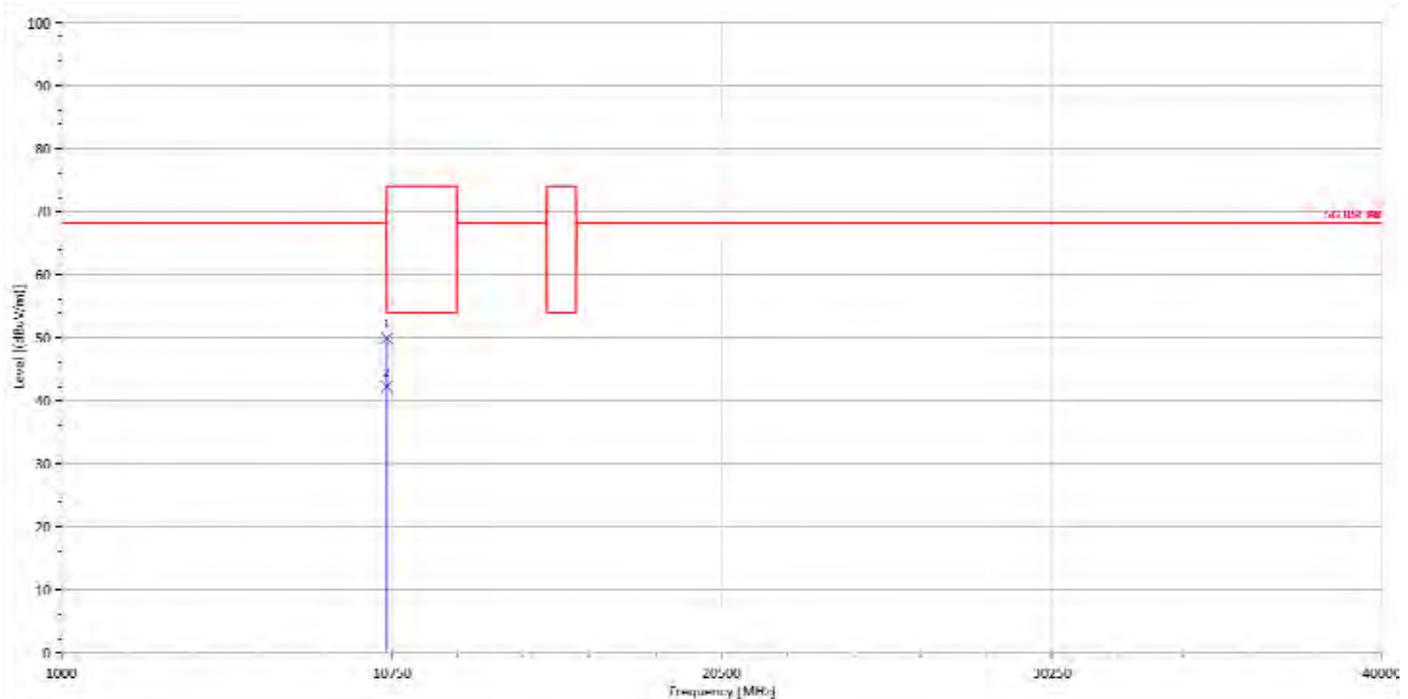
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 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	29.74	20.17	49.90	74	-24.10
10600.00	H	Average	22.01	20.17	42.18	54	-11.82

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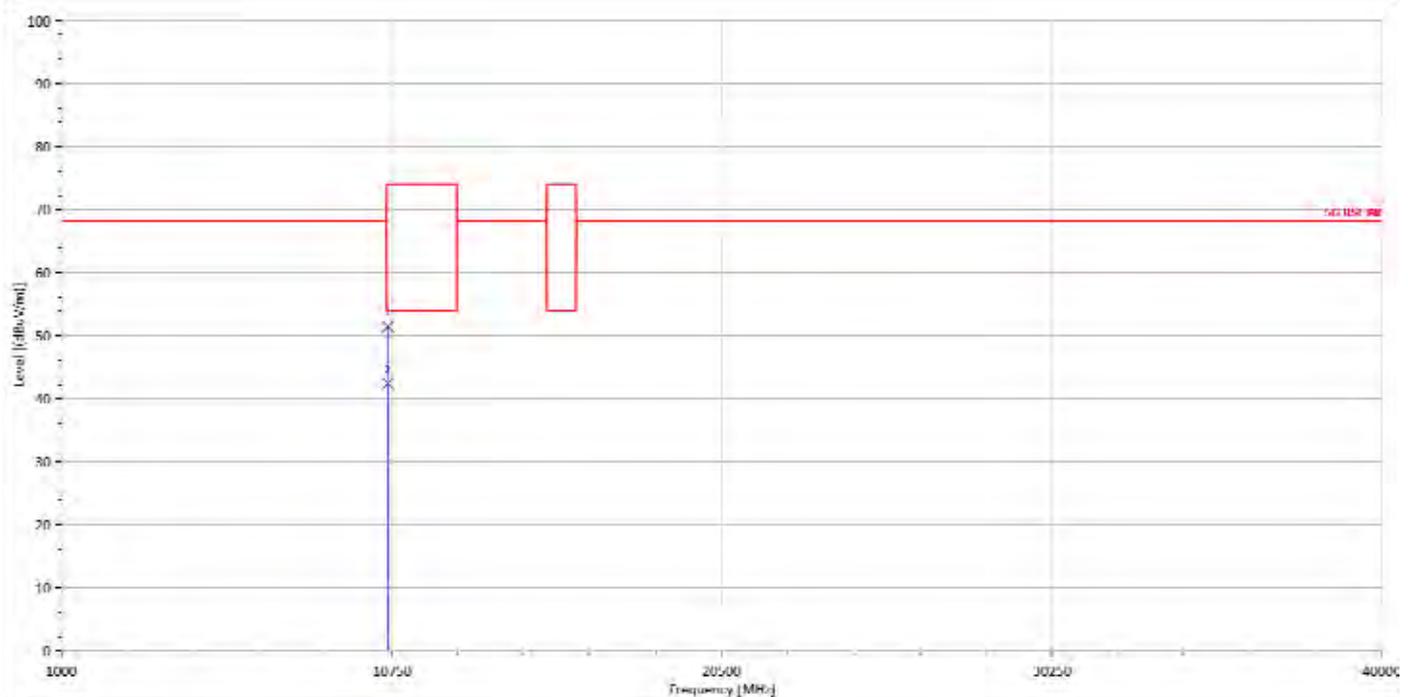
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Operation Mode :	802.11a	Test Date :	2017/1/23
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



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	31.10	20.34	51.44	74	-22.56
10640.00	H	Average	21.97	20.34	42.31	54	-11.69

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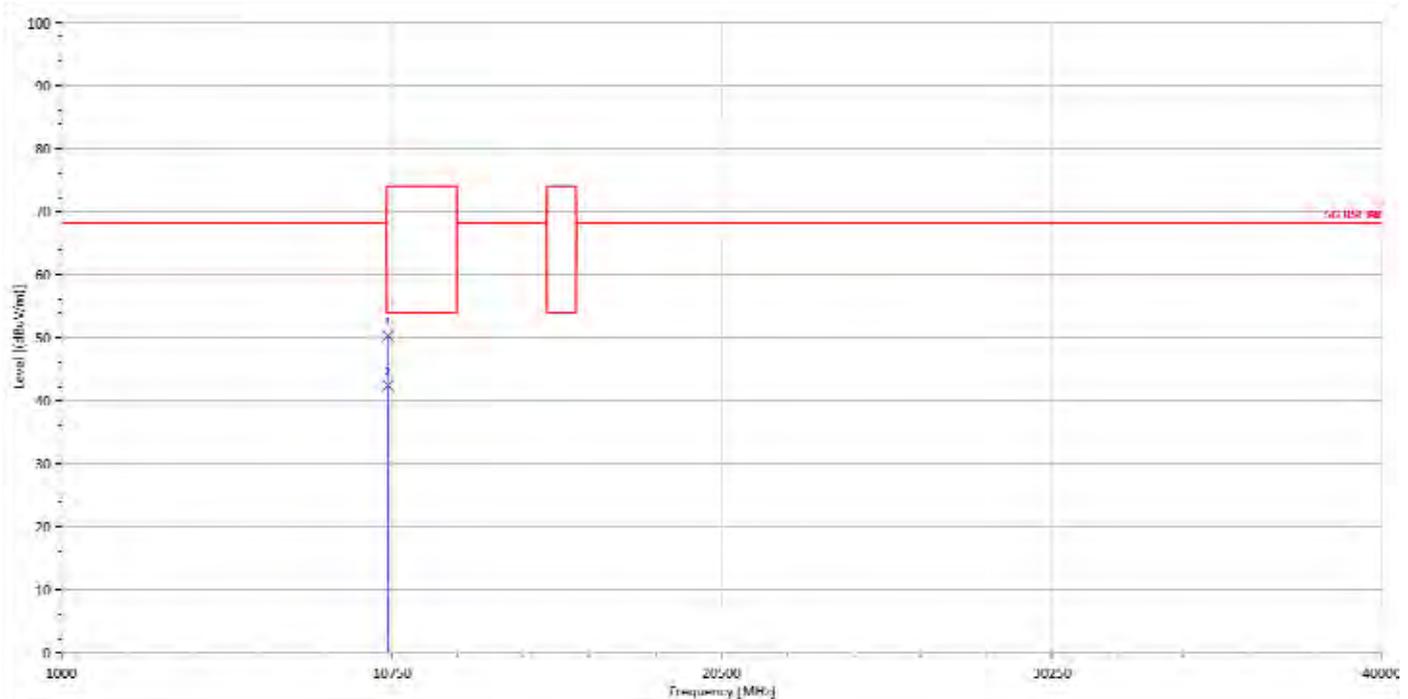
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Operation Mode :	802.11a	Test Date :	2017/1/23
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



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	29.95	20.34	50.29	74	-23.71
10640.00	H	Average	21.98	20.34	42.32	54	-11.68

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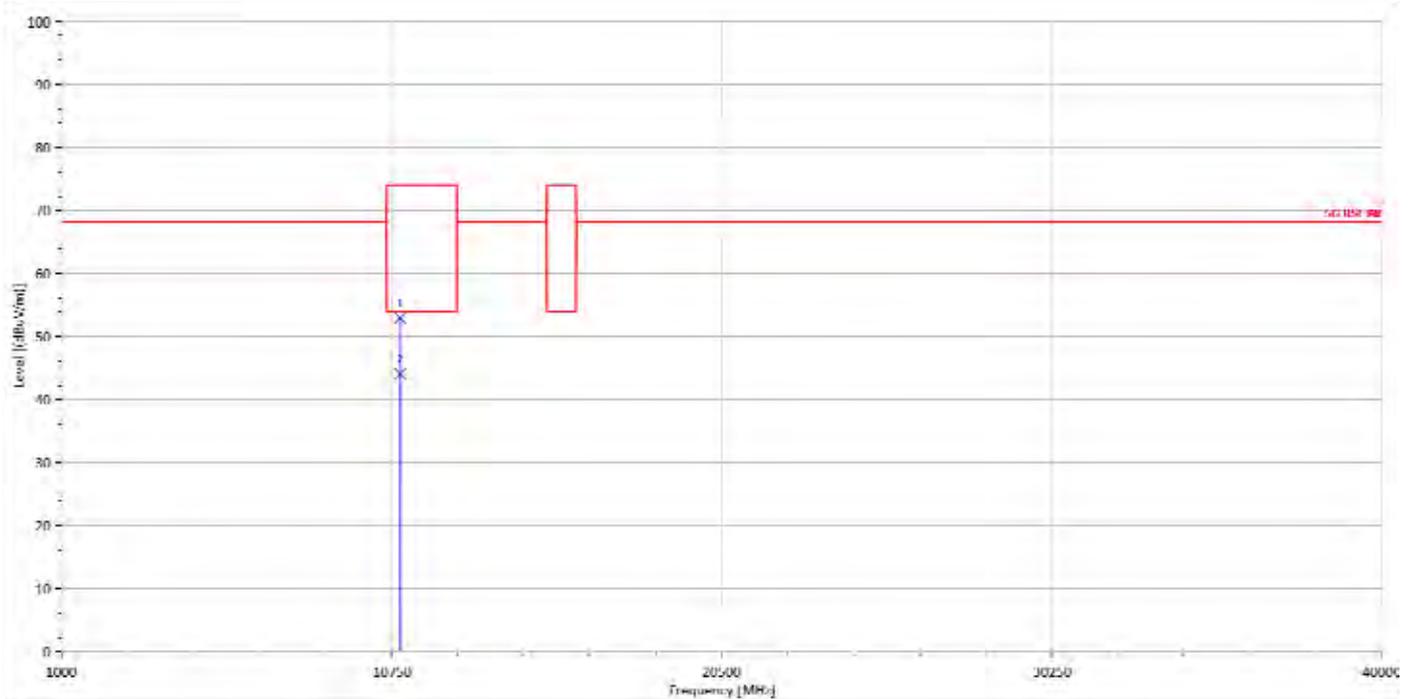
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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode :	802.11a	Test Date :	2017/1/23
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	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	30.86	22.11	52.97	74	-21.03
11000.00	H	Average	21.95	22.11	44.06	54	-9.94

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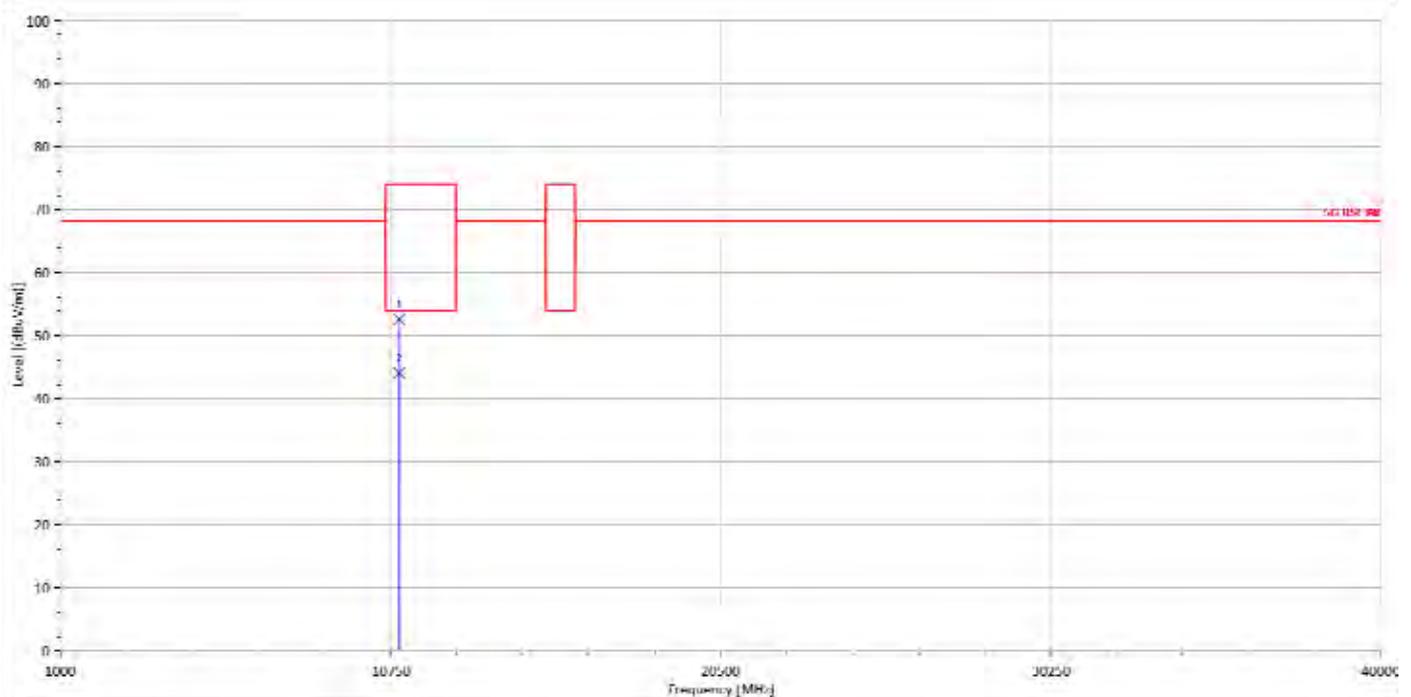
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Operation Mode : 802.11a Test Date : 2017/1/23
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	30.53	22.11	52.64	74	-21.36
11000.00	H	Average	21.94	22.11	44.05	54	-9.95

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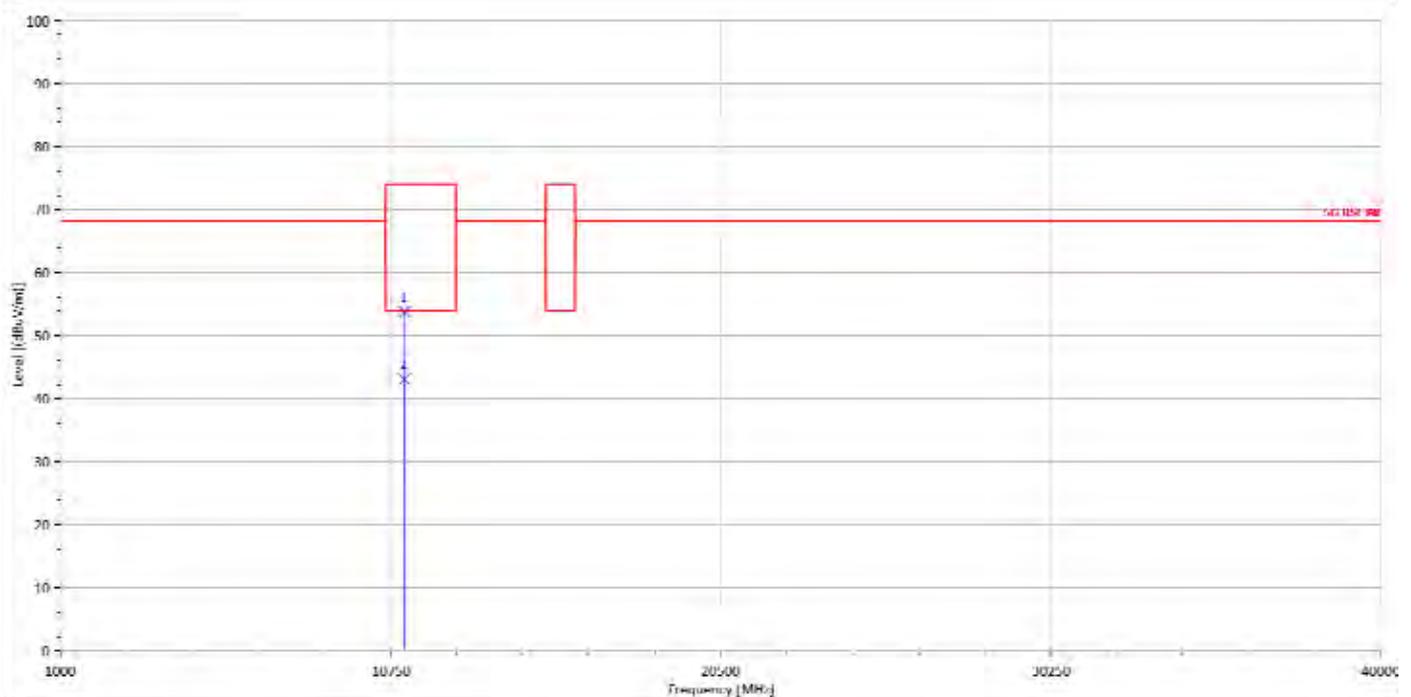
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Operation Mode : 802.11a Test Date : 2017/1/23
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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	31.79	22.04	53.82	74	-20.18
11160.00	H	Average	20.98	22.04	43.02	54	-10.98

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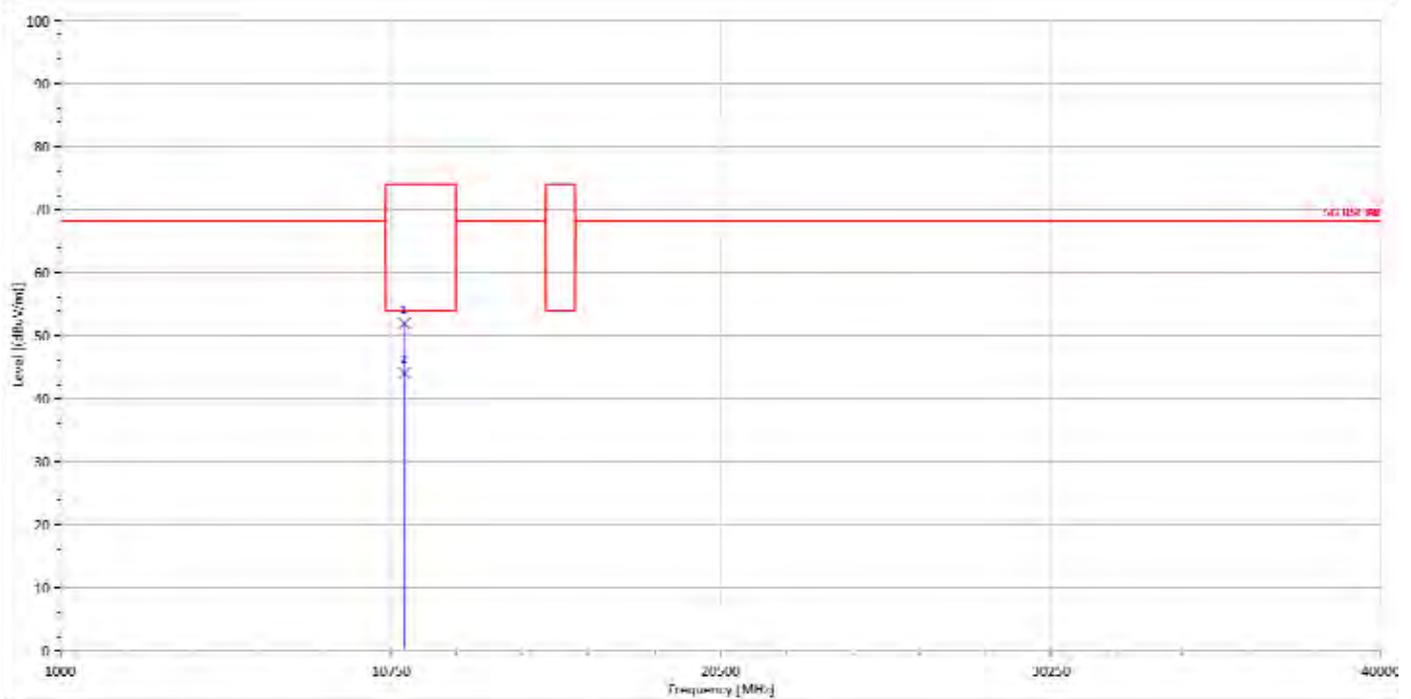
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Operation Mode : 802.11a Test Date : 2017/1/23
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	29.91	22.04	51.95	74	-22.05
11160.00	H	Average	21.98	22.04	44.02	54	-9.98

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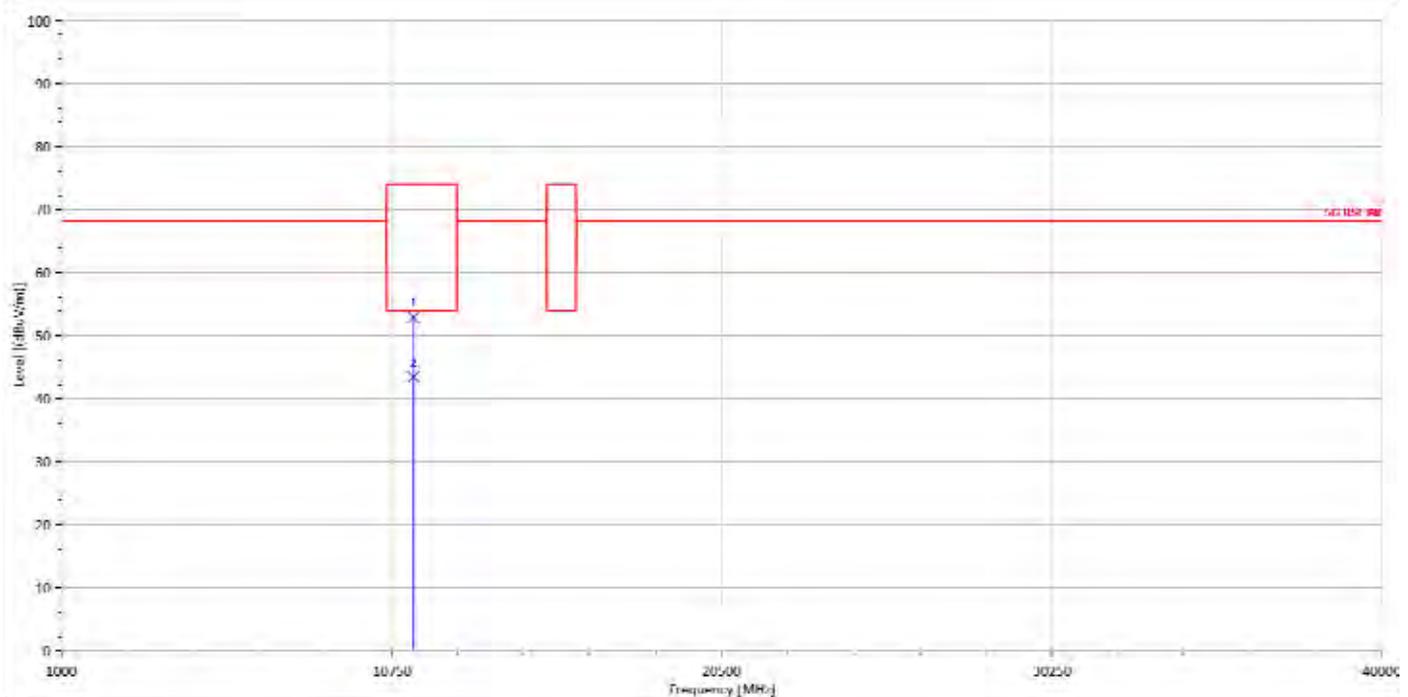
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Operation Mode :	802.11a	Test Date :	2017/1/23
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



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
11400.00	H	Peak	31.72	21.22	52.94	74	-21.06
11400.00	H	Average	22.16	21.22	43.38	54	-10.62

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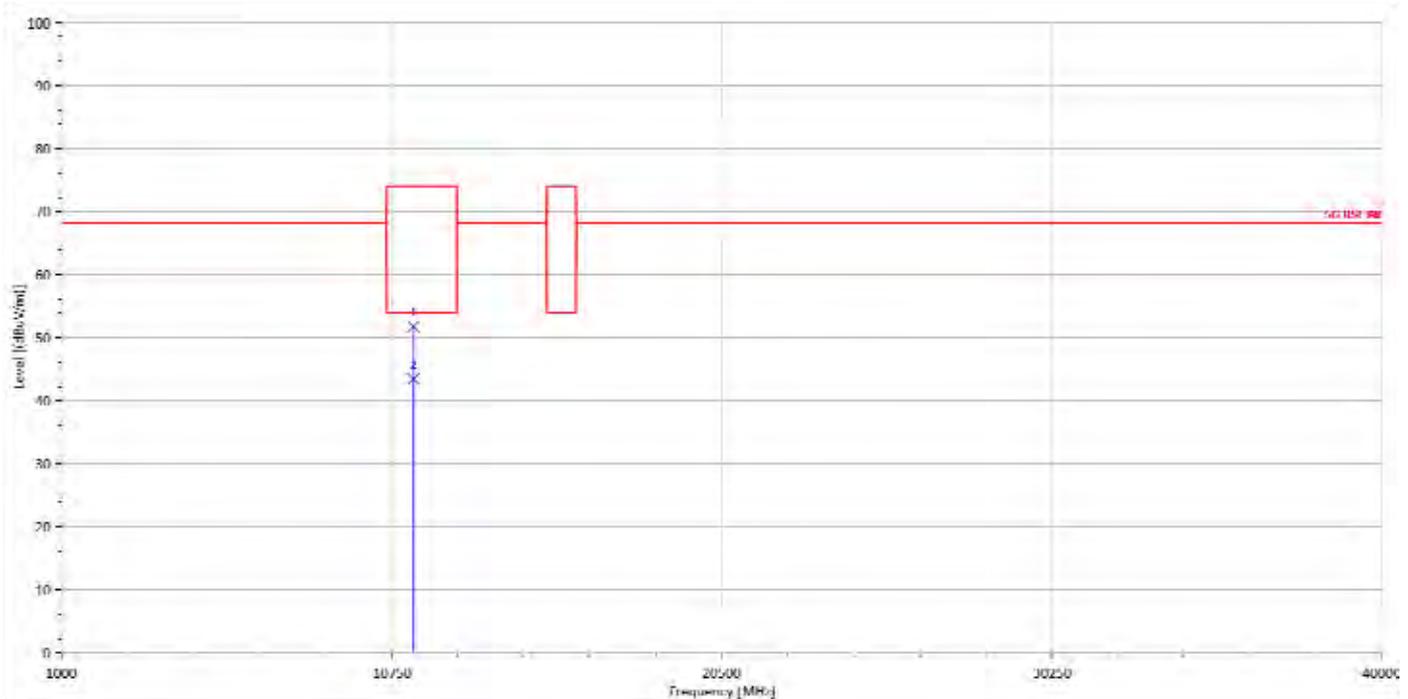
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Operation Mode :	802.11a	Test Date :	2017/1/23
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



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
11400.00	H	Peak	30.56	21.22	51.78	74	-22.22
11400.00	H	Average	22.16	21.22	43.38	54	-10.62

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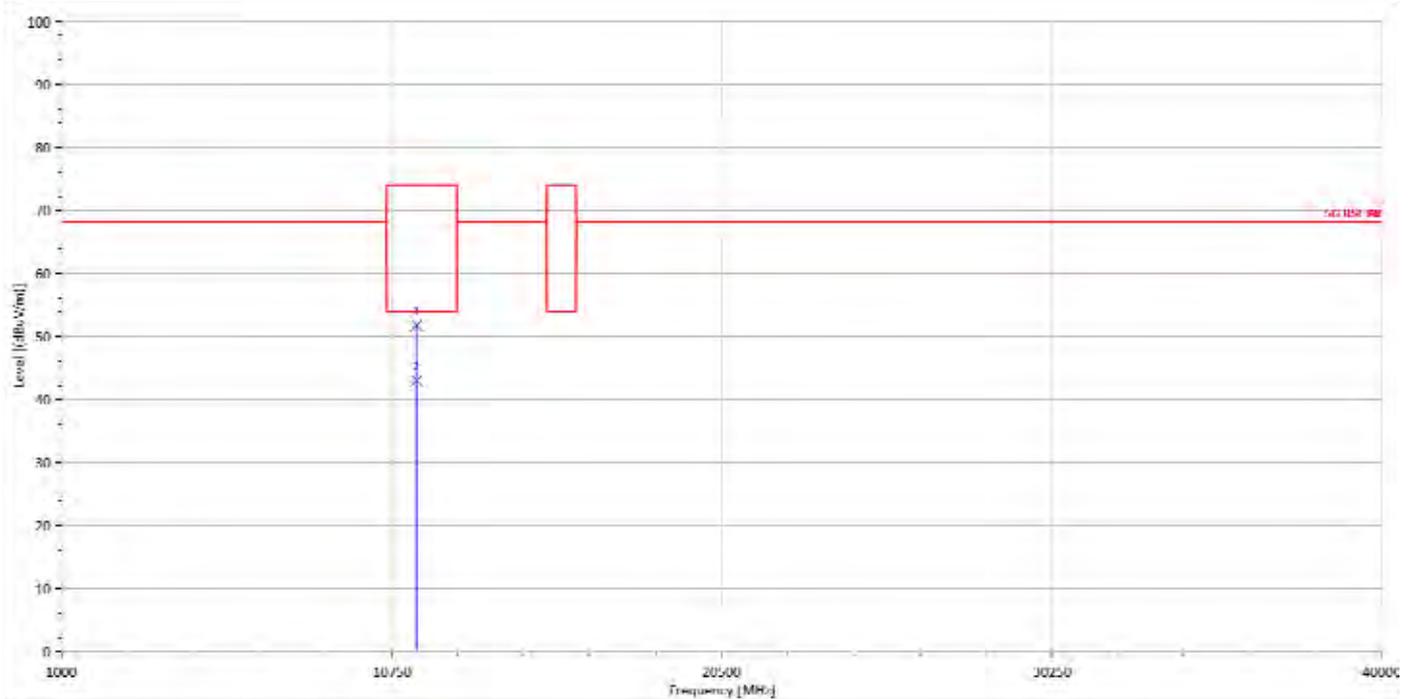
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Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode :	802.11a	Test Date :	2017/1/23
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	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	31.07	20.70	51.78	74	-22.22
11490.00	H	Average	22.22	20.70	42.92	54	-11.08

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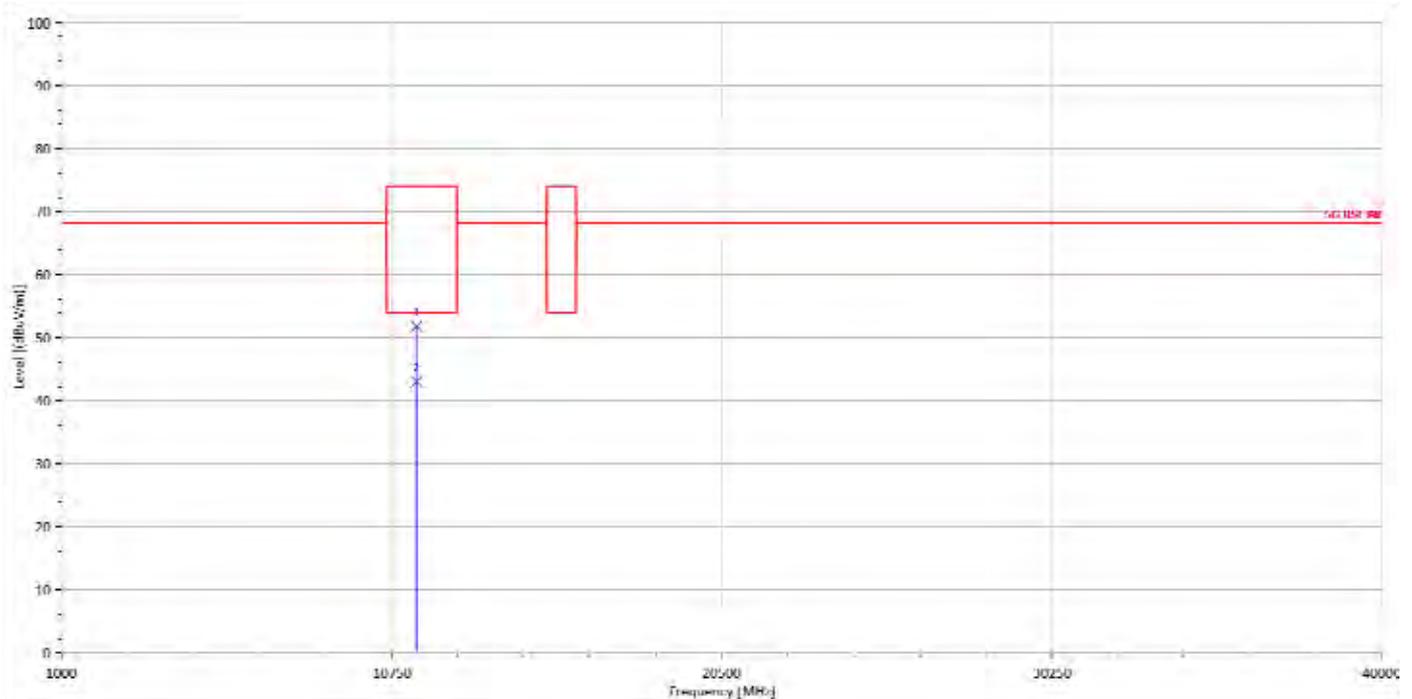
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Operation Mode : 802.11a Test Date : 2017/1/23
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	31.13	20.70	51.84	74	-22.16
11490.00	H	Average	22.23	20.70	42.93	54	-11.07

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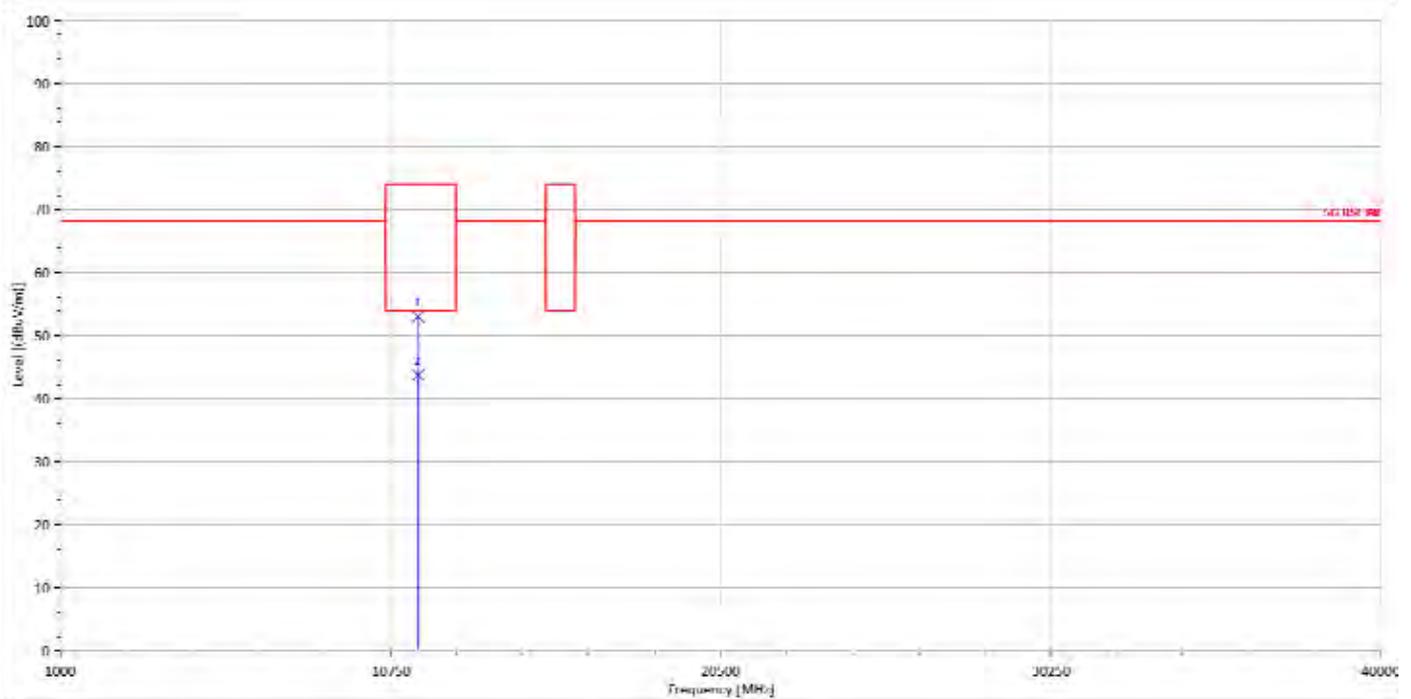
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Operation Mode : 802.11a Test Date : 2017/1/23
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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	31.60	21.44	53.04	74	-20.96
11570.00	H	Average	22.22	21.44	43.66	54	-10.34

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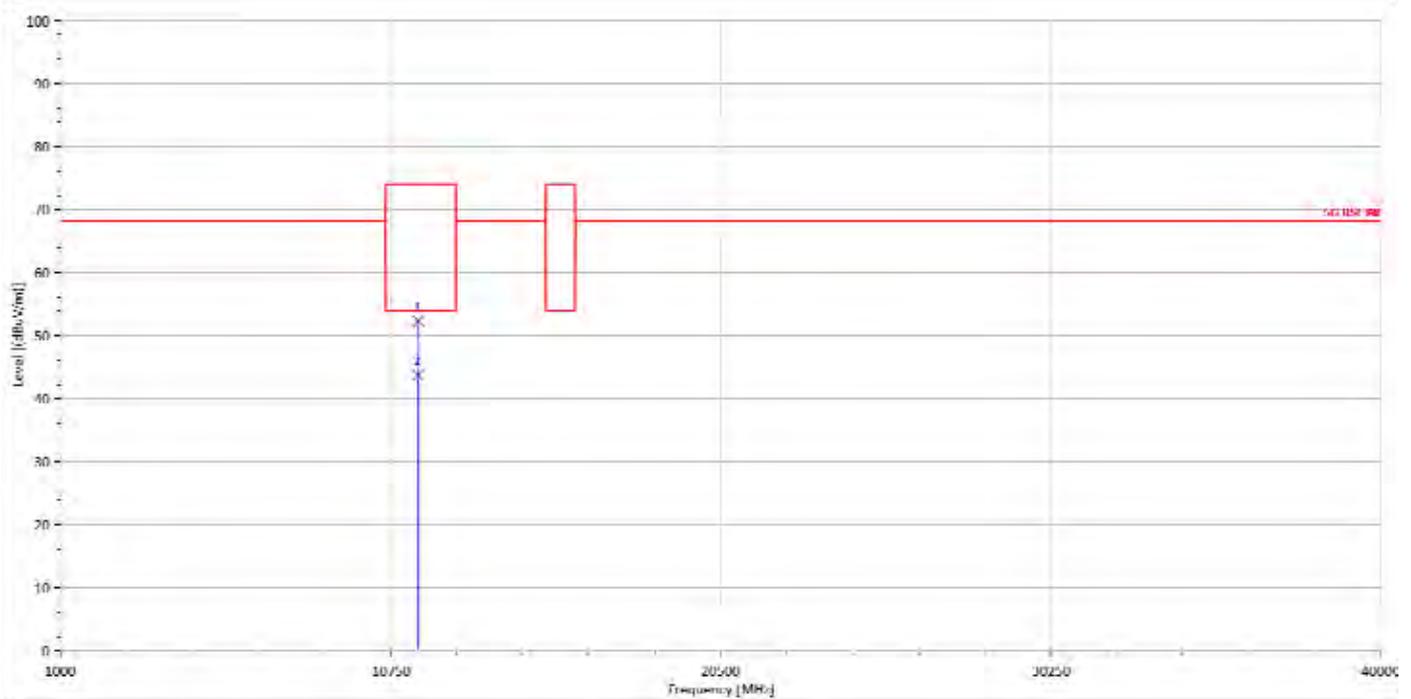
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Operation Mode : 802.11a Test Date : 2017/1/23
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	30.90	21.44	52.34	74	-21.66
11570.00	H	Average	22.23	21.44	43.67	54	-10.33

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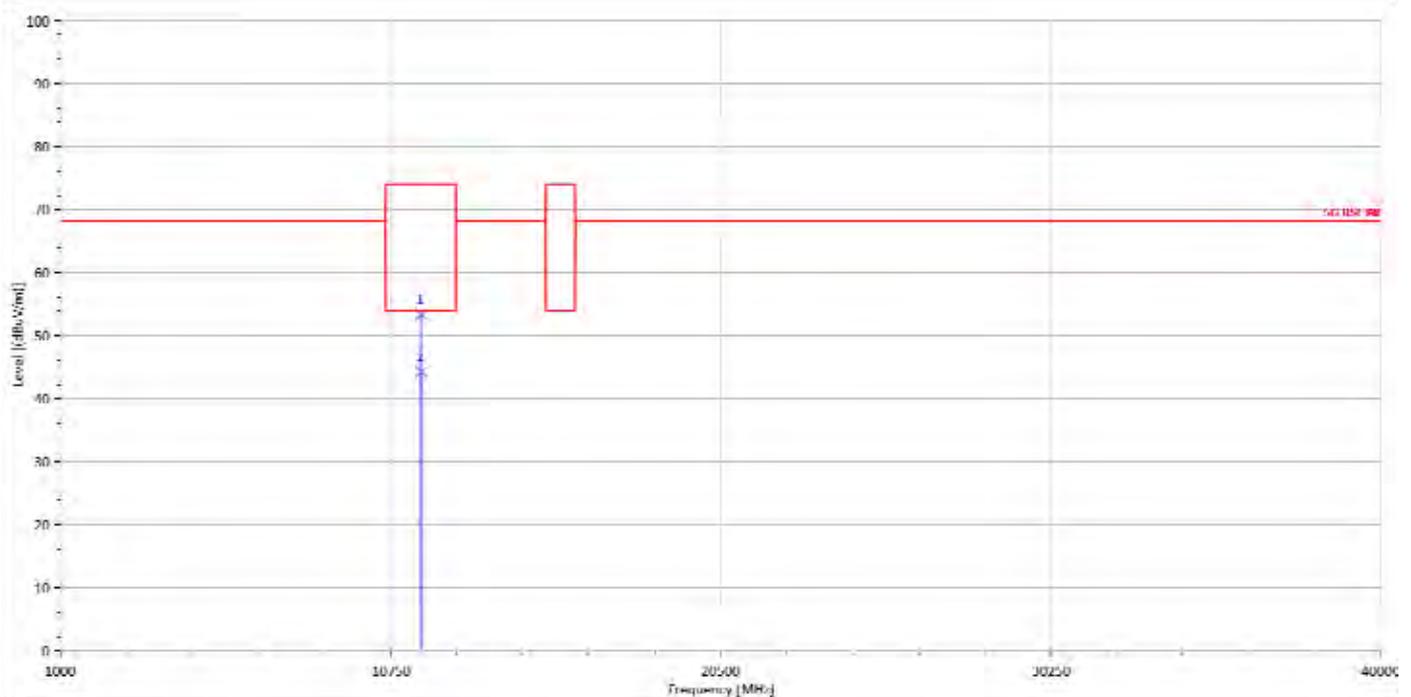
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Operation Mode :	802.11a	Test Date :	2017/1/23
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



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	31.35	22.02	53.37	74	-20.63
11650.00	H	Average	22.17	22.02	44.19	54	-9.81

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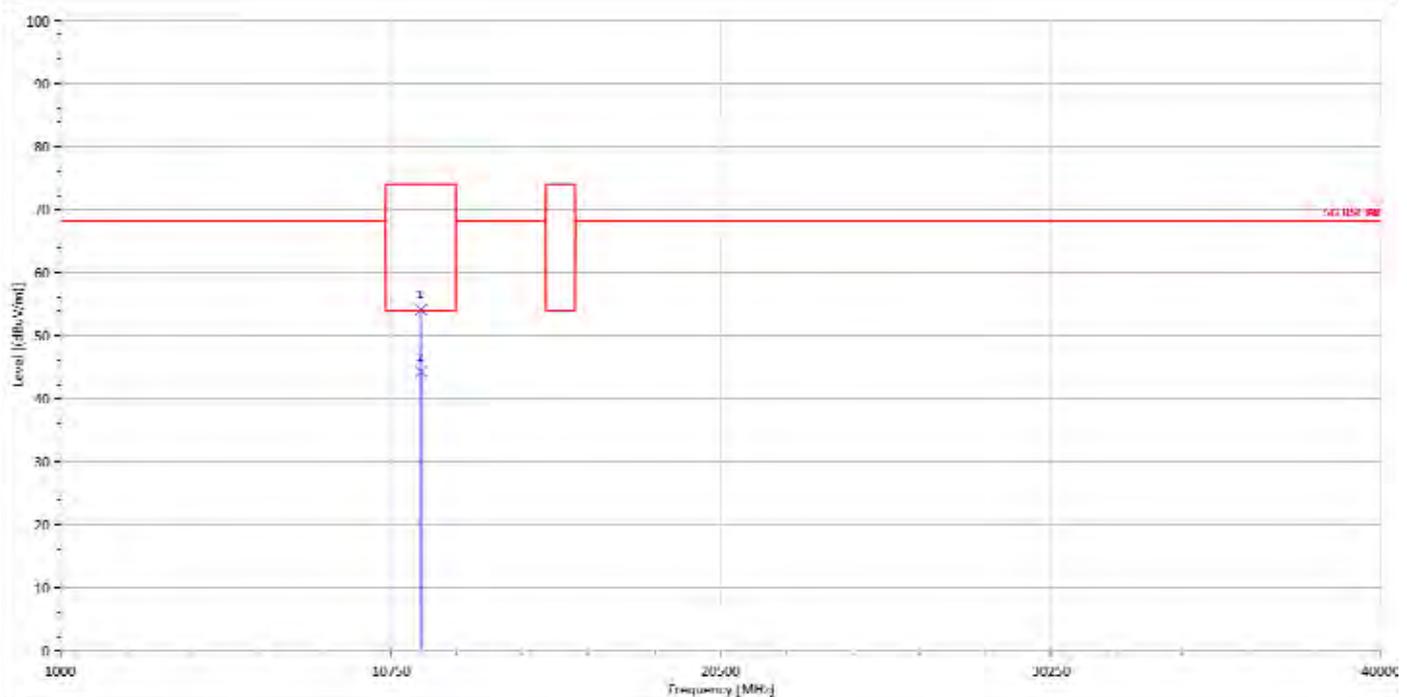
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Operation Mode :	802.11a	Test Date :	2017/1/23
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



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	32.13	22.02	54.15	74	-19.85
11650.00	H	Average	22.19	22.02	44.21	54	-9.79

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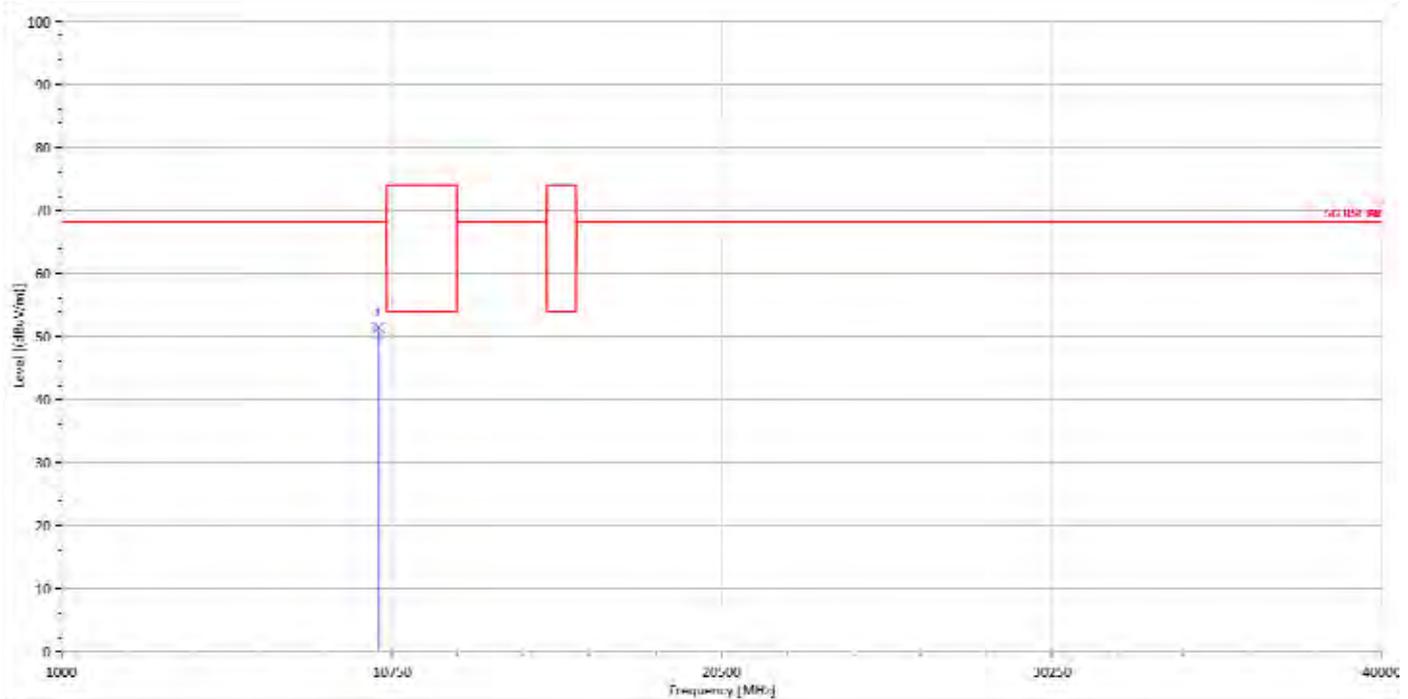
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode :	802.11n20	Test Date :	2017/1/23
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	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	31.26	20.18	51.43	68.3	-16.87

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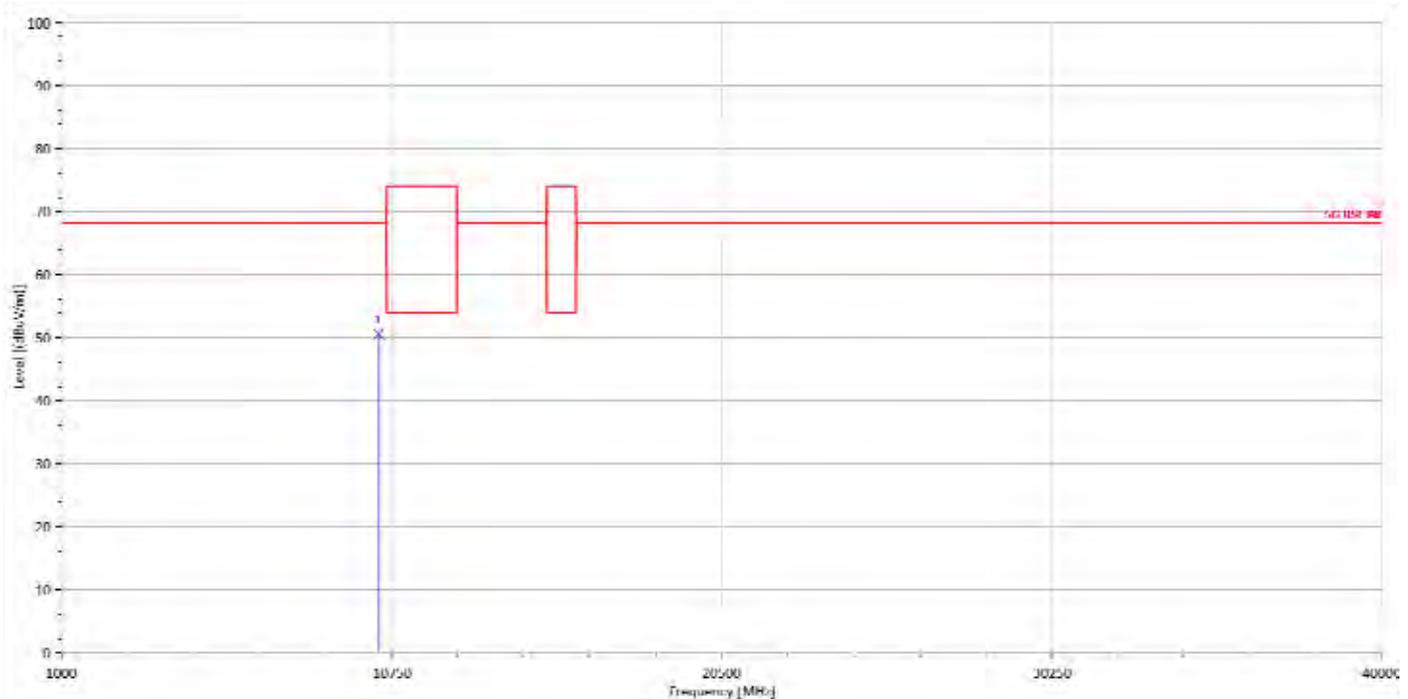
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Operation Mode : 802.11n20 Test Date : 2017/1/23
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	30.42	20.18	50.60	68.3	-17.70

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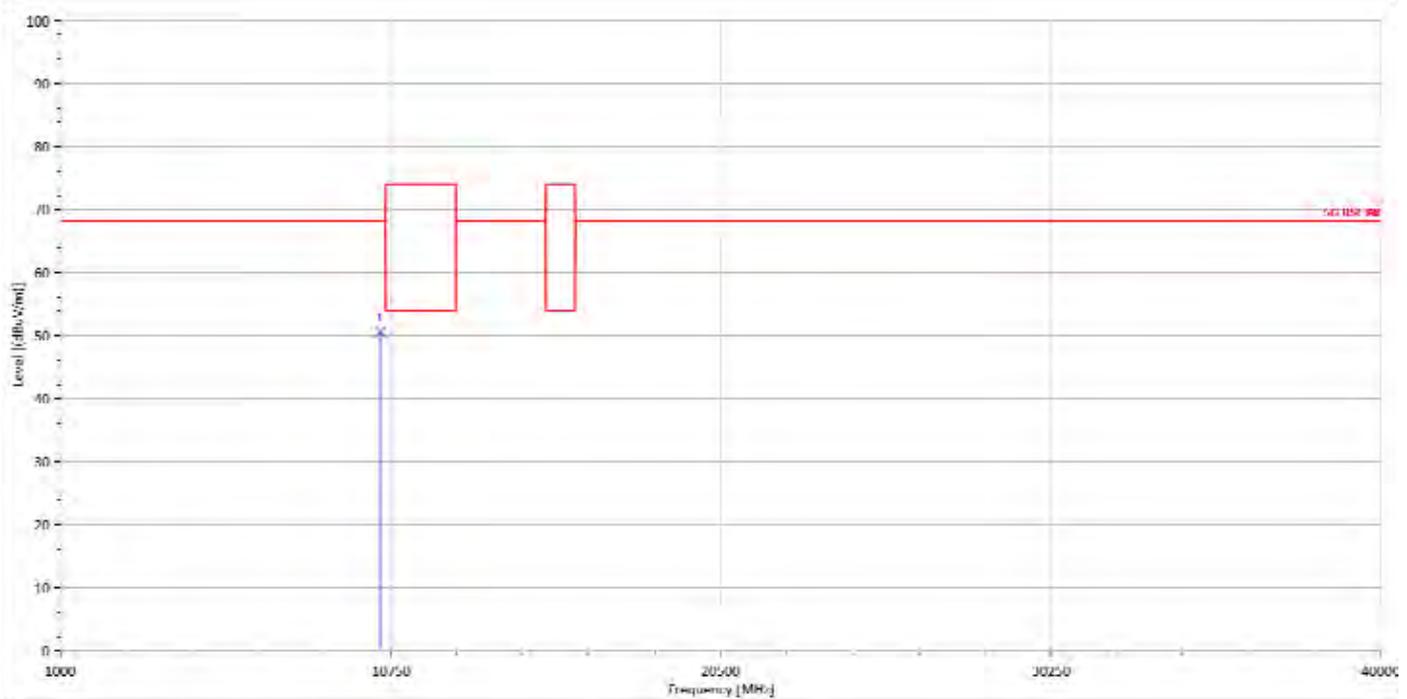
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Operation Mode : 802.11n20 Test Date : 2017/1/23
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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	30.31	20.29	50.60	68.3	-17.70

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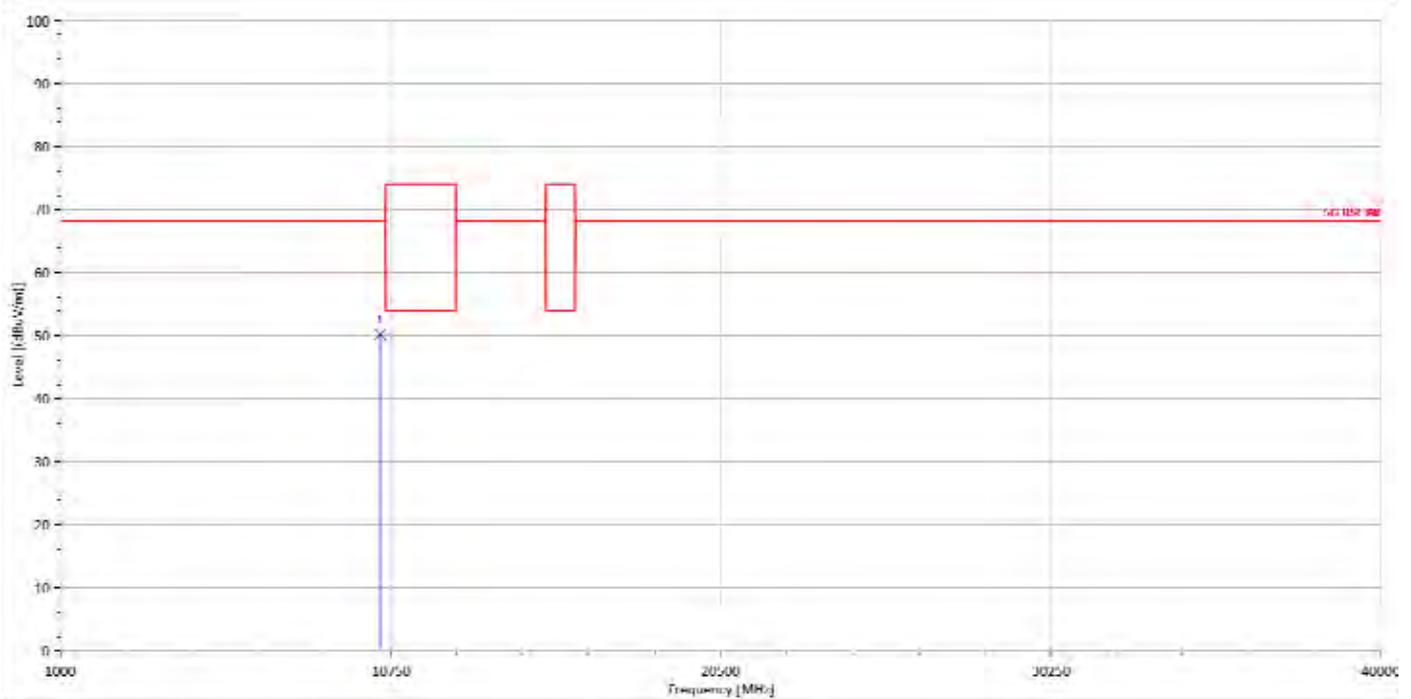
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Operation Mode : 802.11n20 Test Date : 2017/1/23
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	29.94	20.29	50.23	68.3	-18.07

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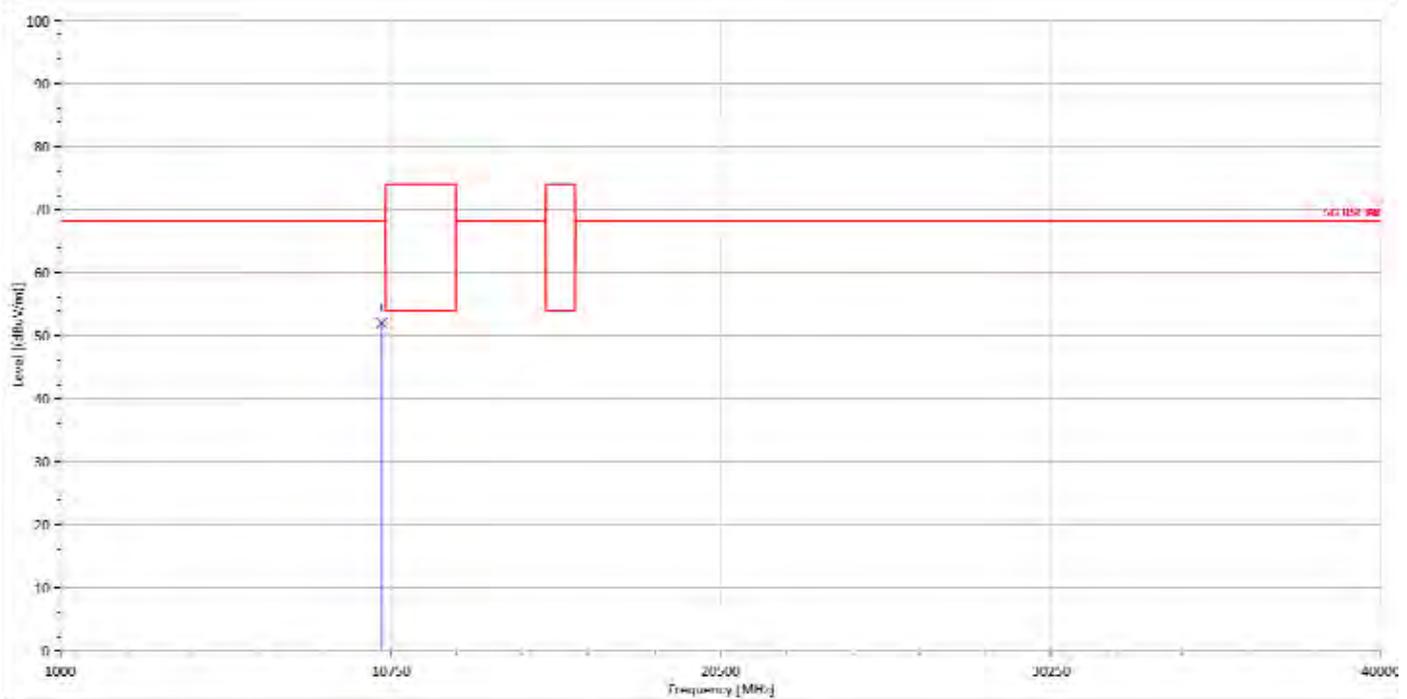
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Operation Mode : 802.11n20 Test Date : 2017/1/23
 Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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	31.32	20.68	52.00	68.3	-16.30

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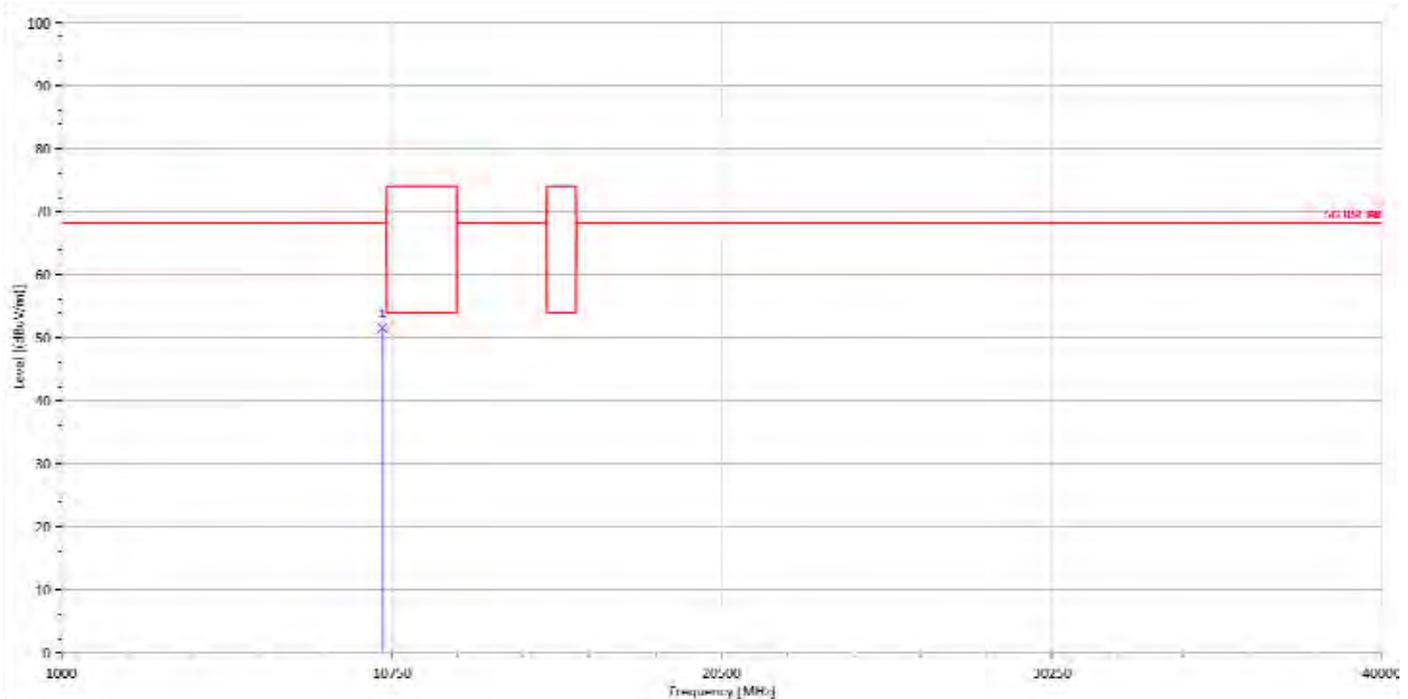
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Operation Mode : 802.11n20 Test Date : 2017/1/23
 Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	30.86	20.68	51.54	68.3	-16.76

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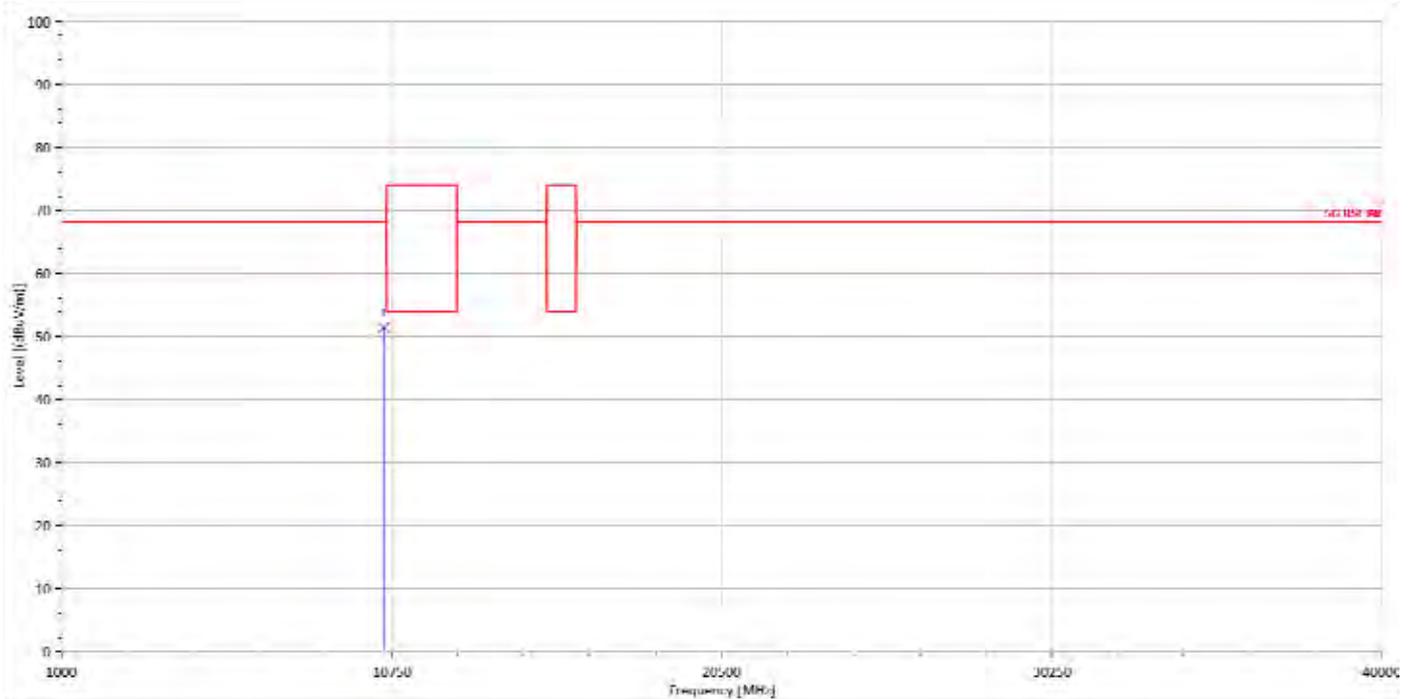
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode :	802.11n20	Test Date :	2017/1/23
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	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
10520.00	H	Peak	31.35	20.10	51.45	68.3	-16.85

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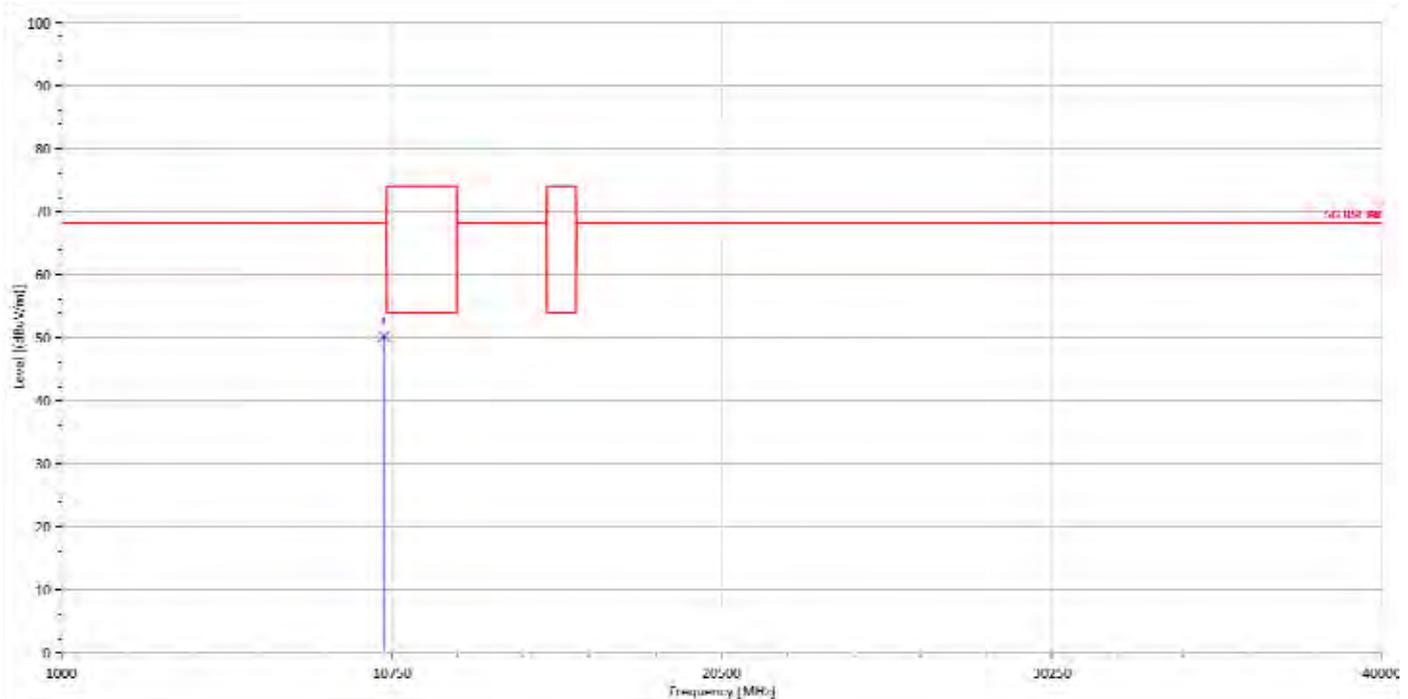
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Operation Mode : 802.11n20 Test Date : 2017/1/23
 Fundamental Frequency : 5260 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	30.09	20.10	50.19	68.3	-18.11

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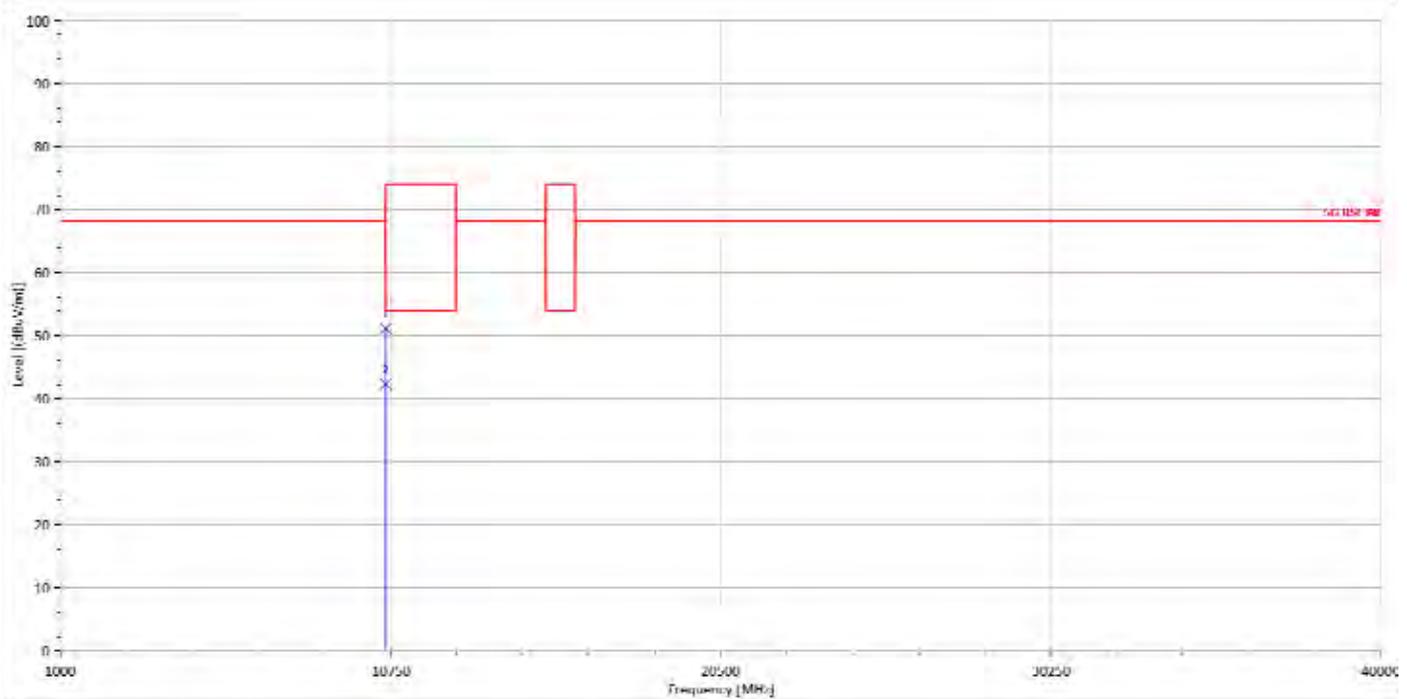
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Operation Mode : 802.11n20 Test Date : 2017/1/23
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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	30.98	20.17	51.14	74	-22.86
10600.00	H	Average	22.07	20.17	42.24	54	-11.76

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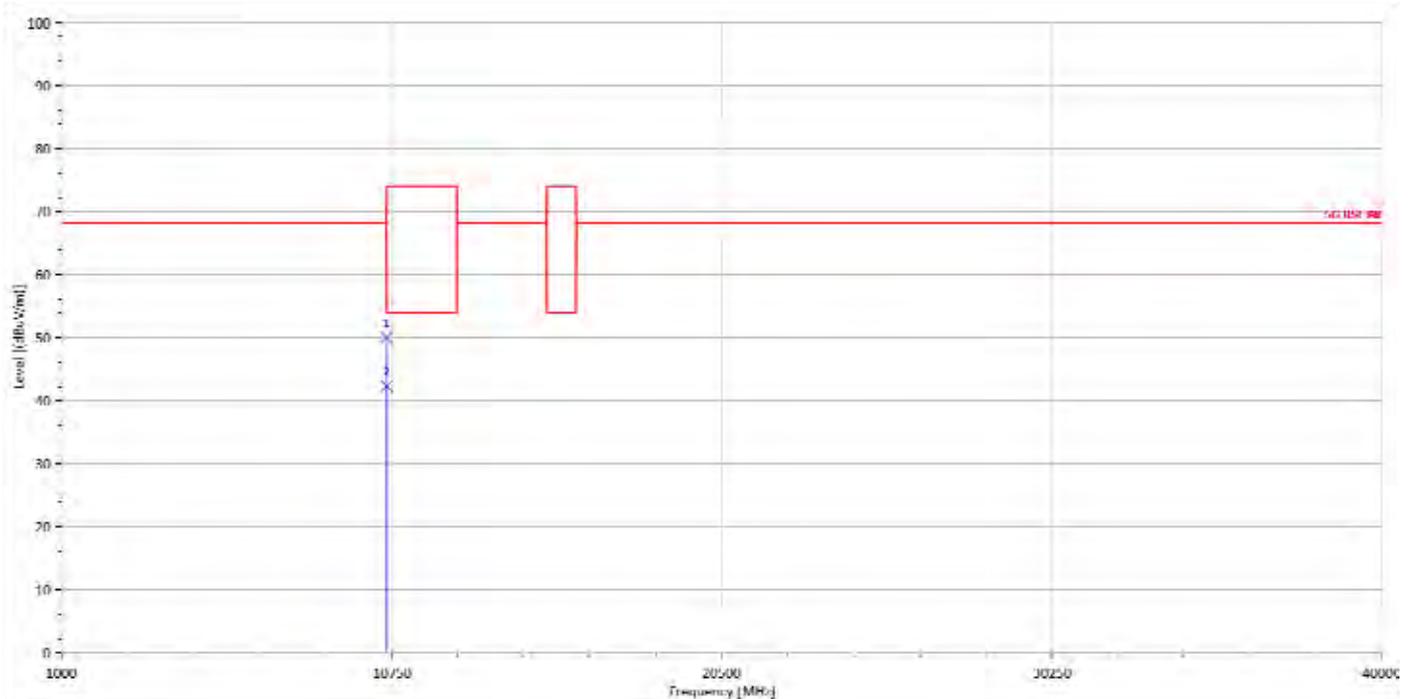
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Operation Mode : 802.11n20 Test Date : 2017/1/23
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 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	29.87	20.17	50.03	74	-23.97
10600.00	H	Average	22.06	20.17	42.23	54	-11.77

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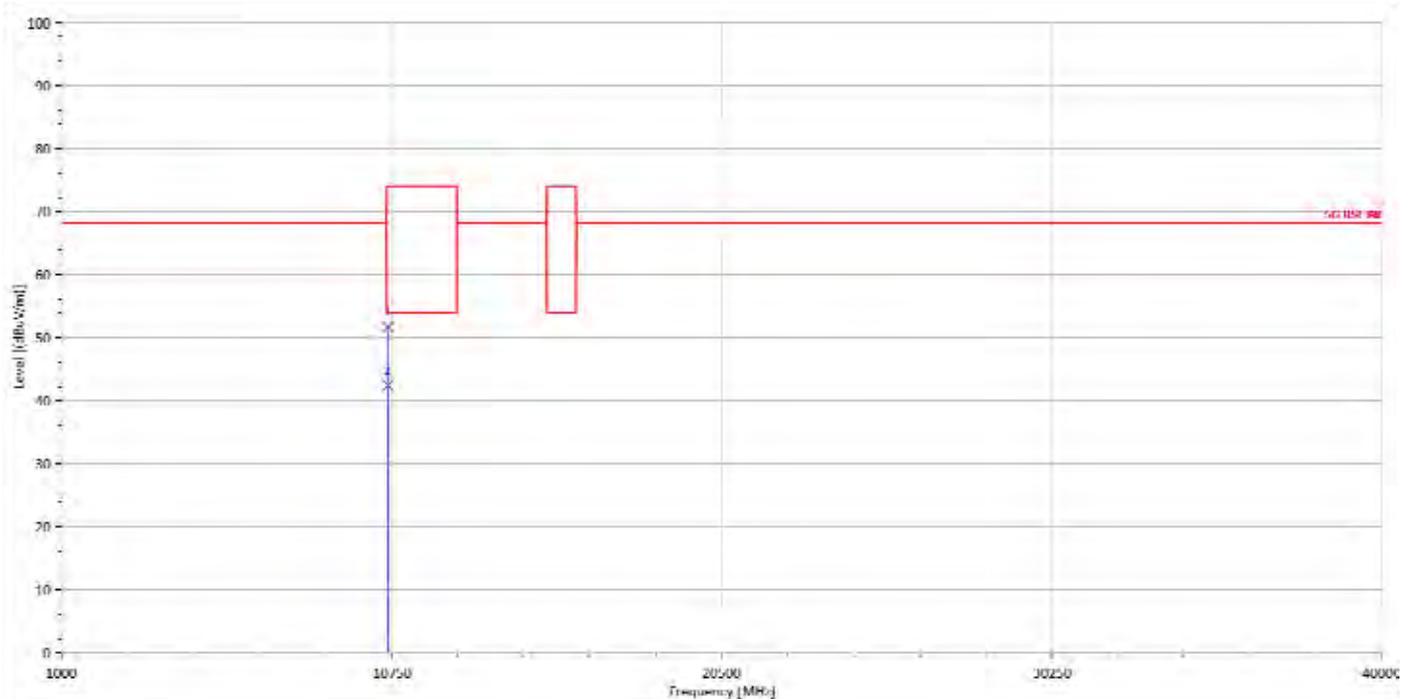
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Operation Mode : 802.11n20 Test Date : 2017/1/23
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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	31.35	20.34	51.70	74	-22.30
10640.00	H	Average	22.01	20.34	42.35	54	-11.65

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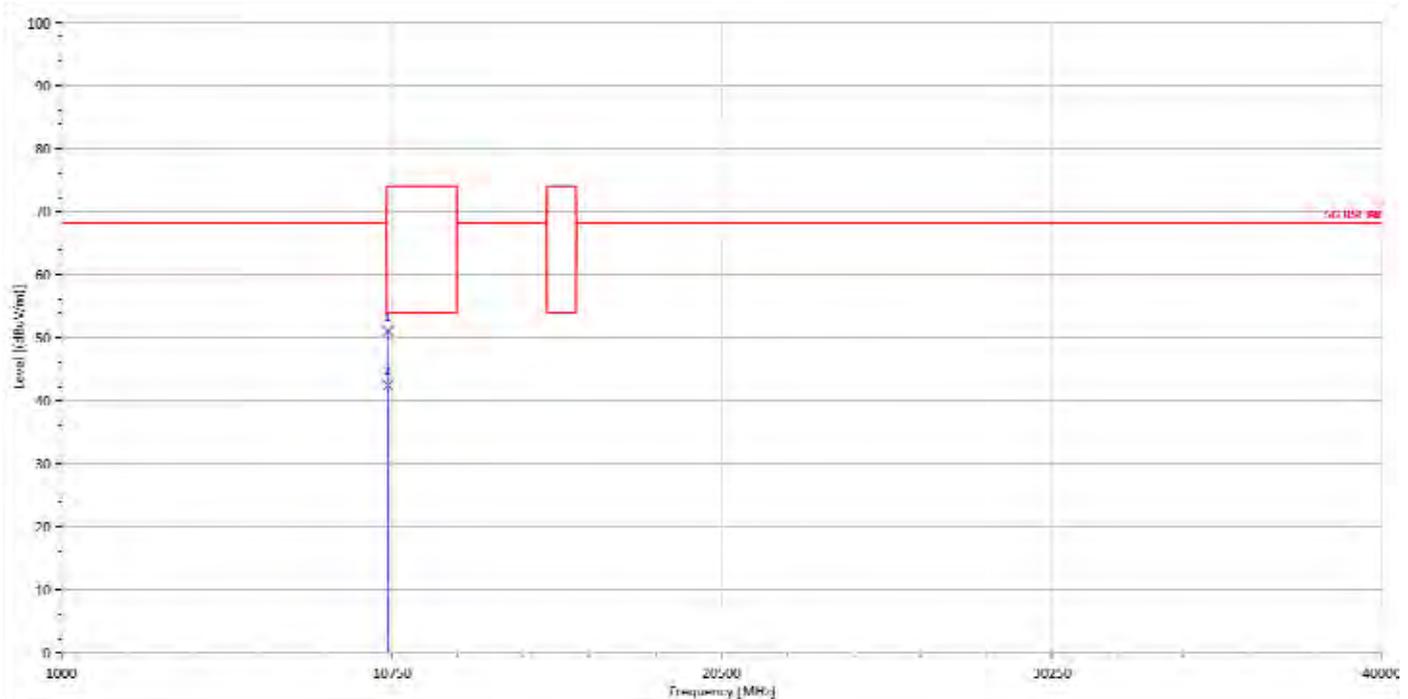
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Operation Mode : 802.11n20 Test Date : 2017/1/23
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	30.70	20.34	51.05	74	-22.95
10640.00	H	Average	22.02	20.34	42.36	54	-11.64

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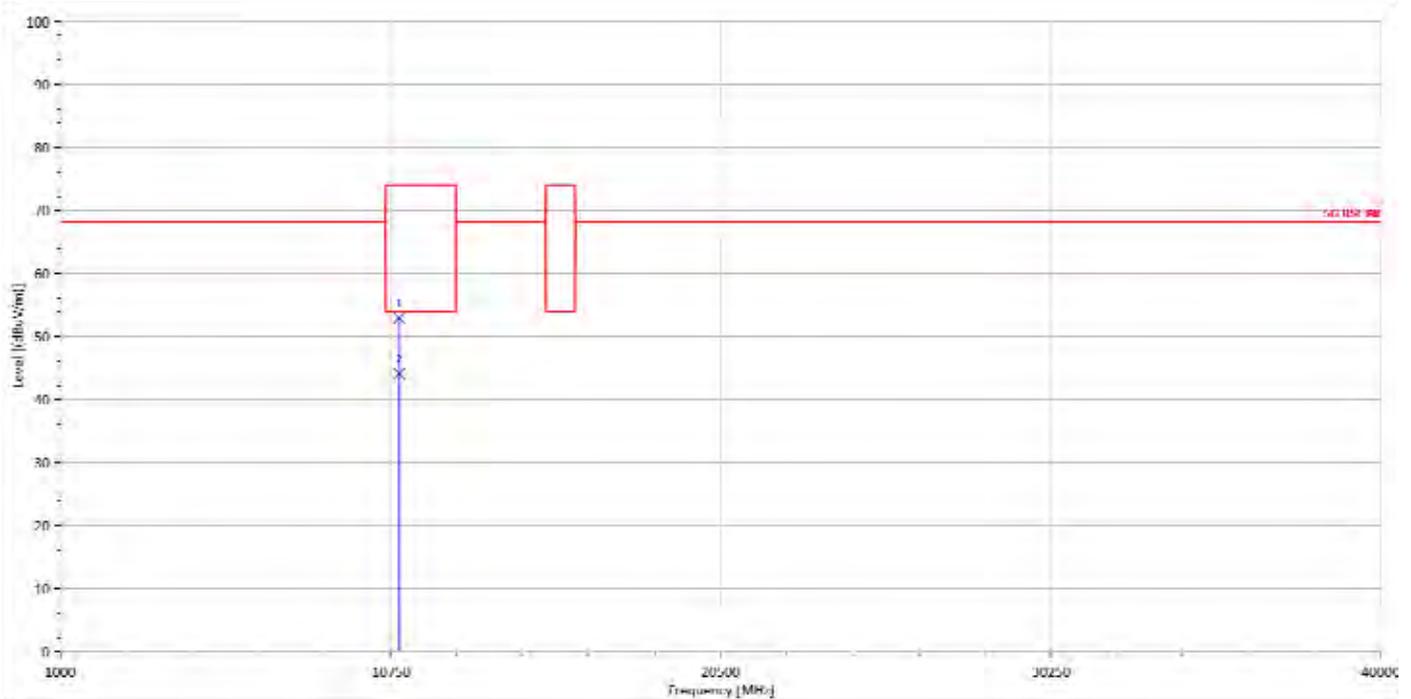
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode :	802.11n20	Test Date :	2017/1/23
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	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	30.86	22.11	52.96	74	-21.04
11000.00	H	Average	21.97	22.11	44.08	54	-9.92

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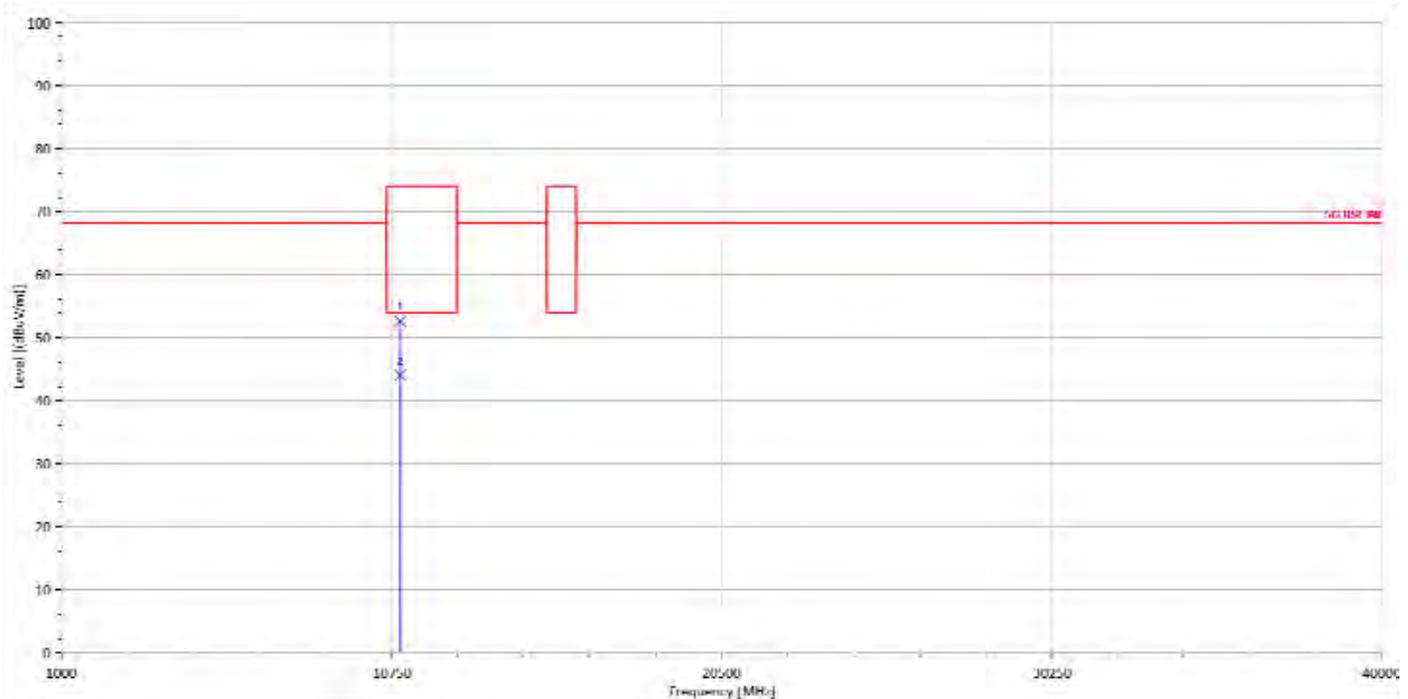
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Operation Mode : 802.11n20 Test Date : 2017/1/23
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	30.55	22.11	52.65	74	-21.35
11000.00	H	Average	21.91	22.11	44.02	54	-9.98

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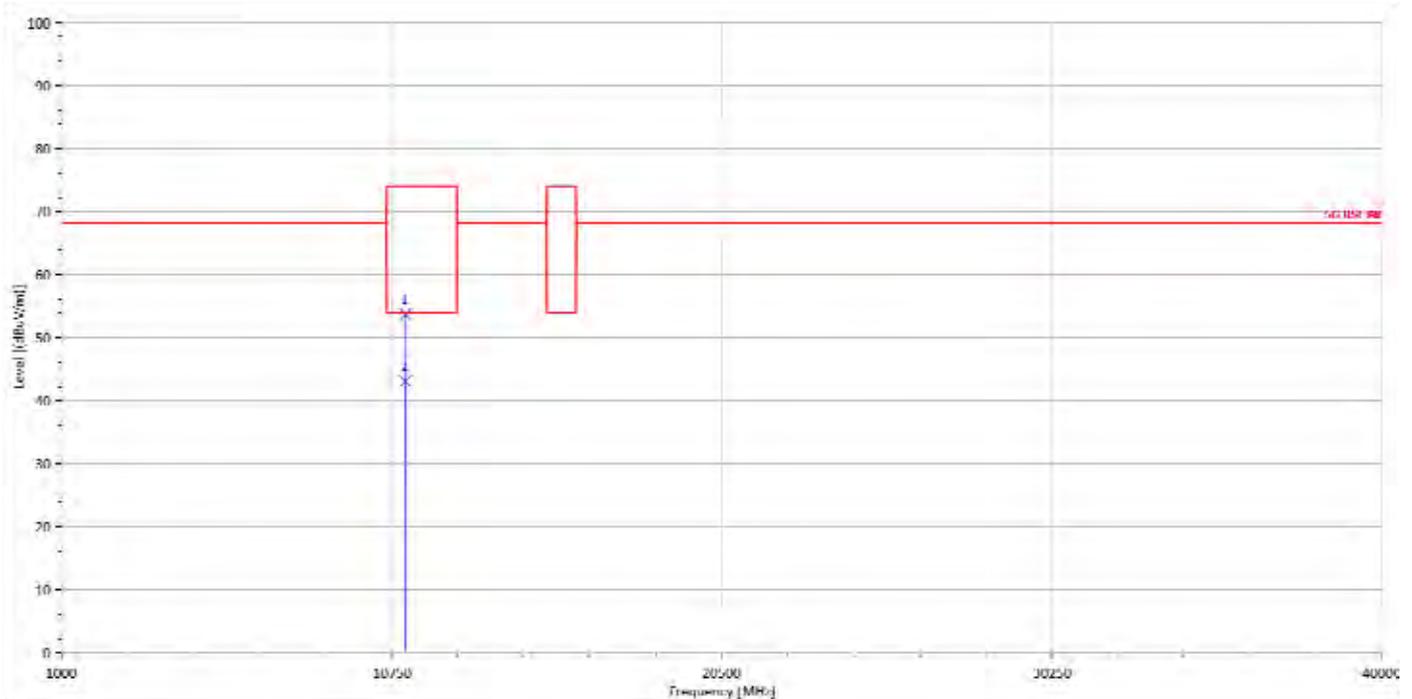
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Operation Mode : 802.11n20 Test Date : 2017/1/23
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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	31.71	22.04	53.75	74	-20.25
11160.00	H	Average	20.99	22.04	43.03	54	-10.97

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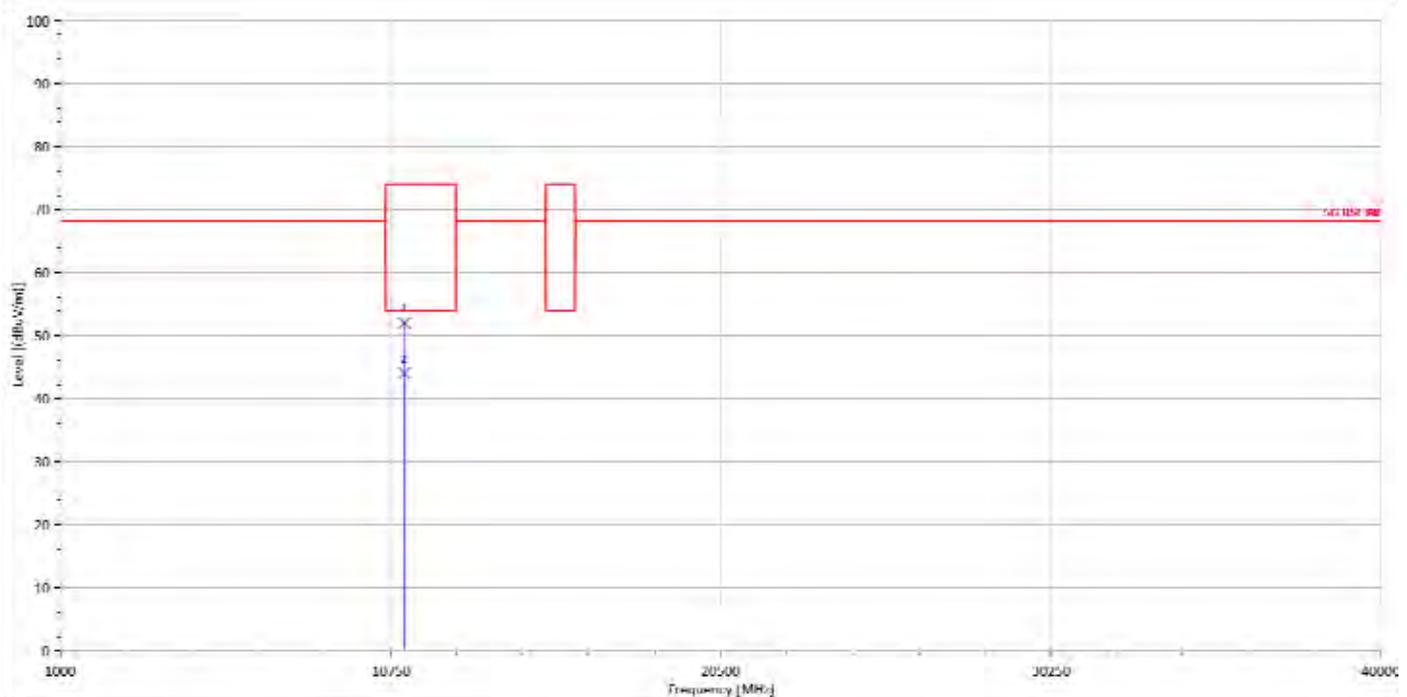
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Operation Mode : 802.11n20 Test Date : 2017/1/23
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	29.99	22.04	52.02	74	-21.98
11160.00	H	Average	21.95	22.04	43.99	54	-10.01

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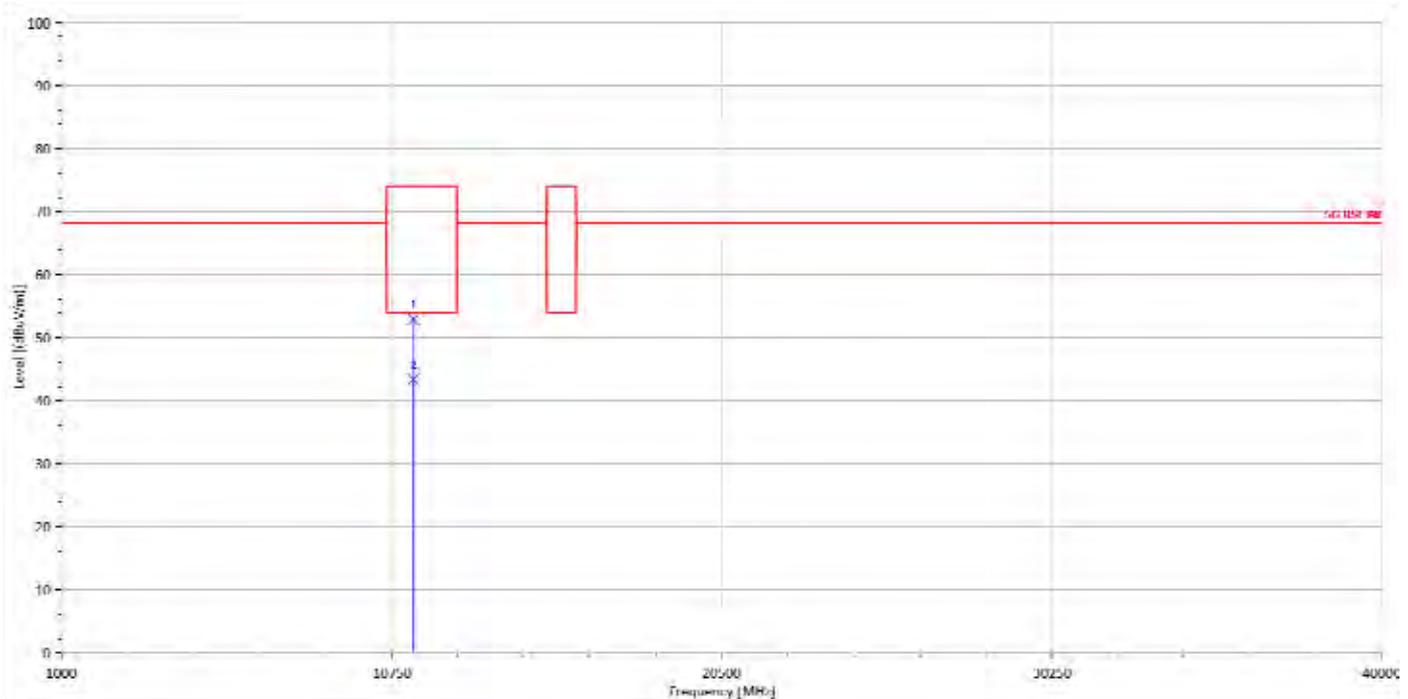
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Operation Mode : 802.11n20 Test Date : 2017/1/23
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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
11400.00	H	Peak	31.71	21.22	52.93	74	-21.07
11400.00	H	Average	22.08	21.22	43.30	54	-10.70

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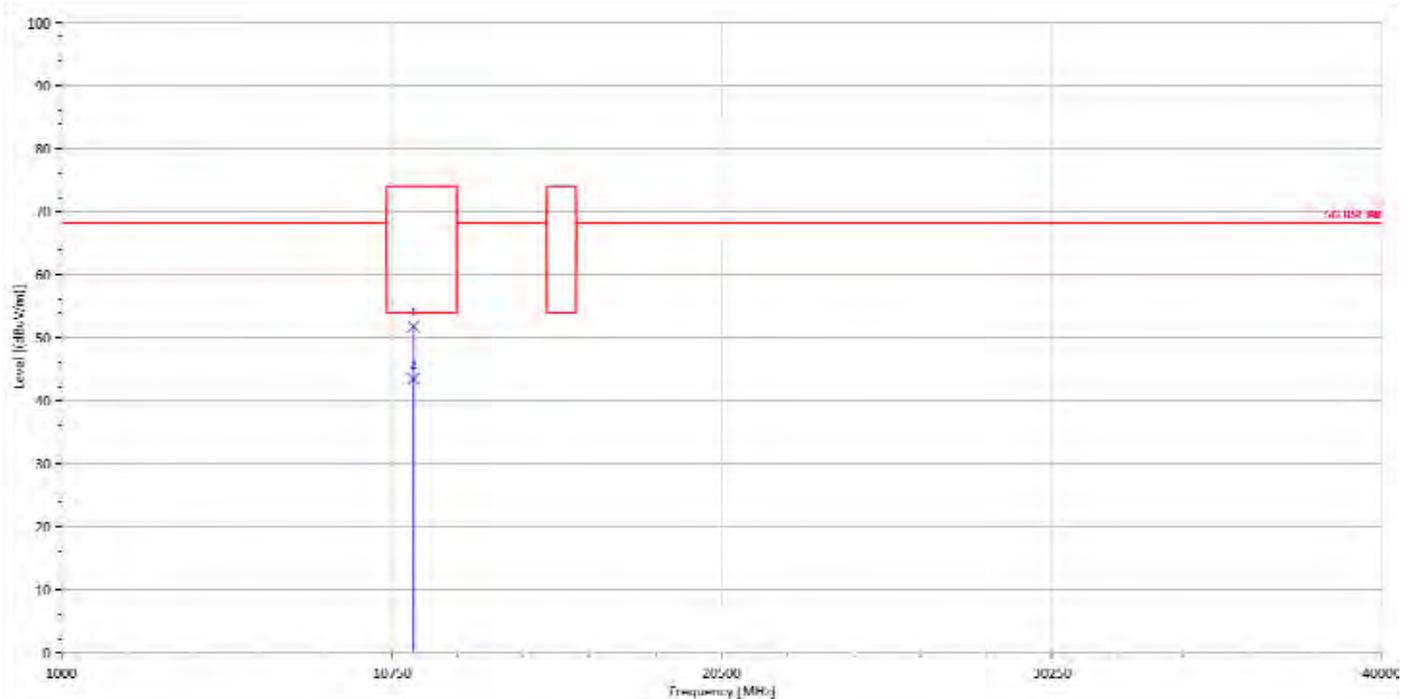
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Operation Mode : 802.11n20 Test Date : 2017/1/23
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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
11400.00	H	Peak	30.58	21.22	51.79	74	-22.21
11400.00	H	Average	22.18	21.22	43.40	54	-10.60

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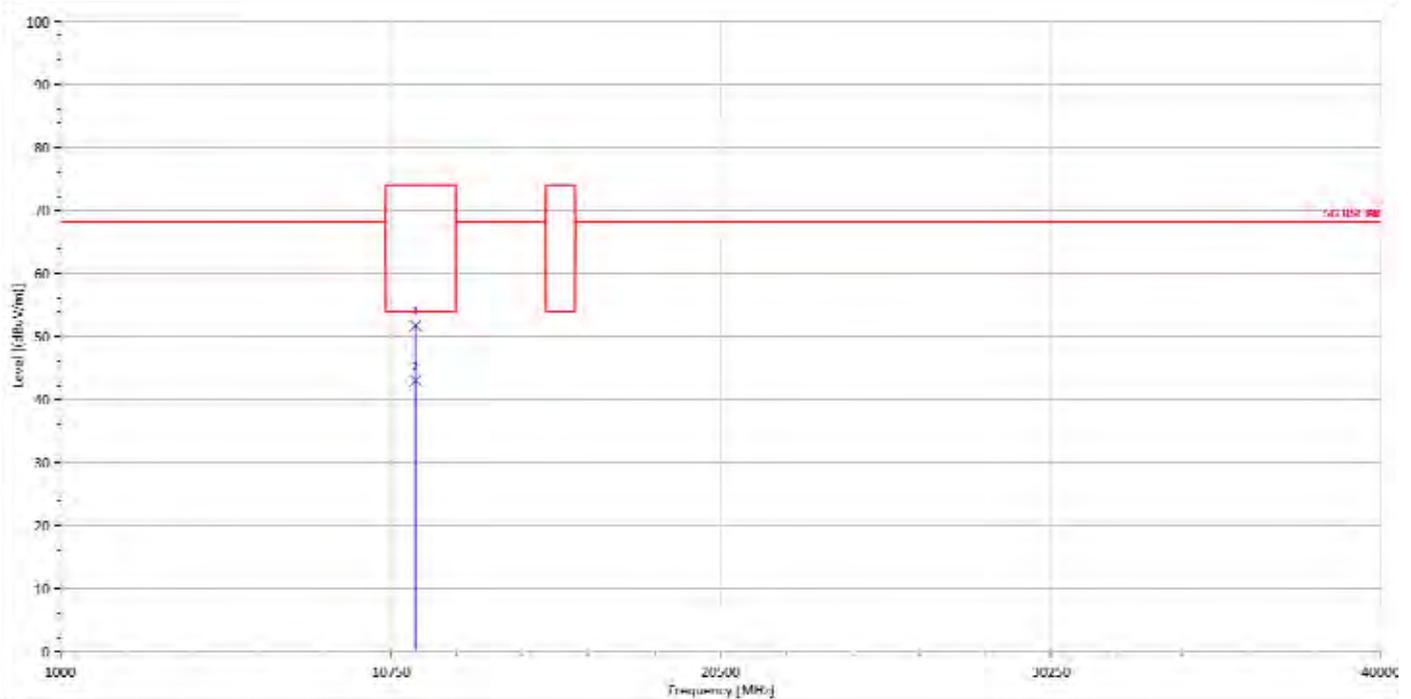
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode : 802.11n20 Test Date : 2017/1/23
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H 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	31.07	20.70	51.77	74	-22.23
11490.00	H	Average	22.24	20.70	42.94	54	-11.06

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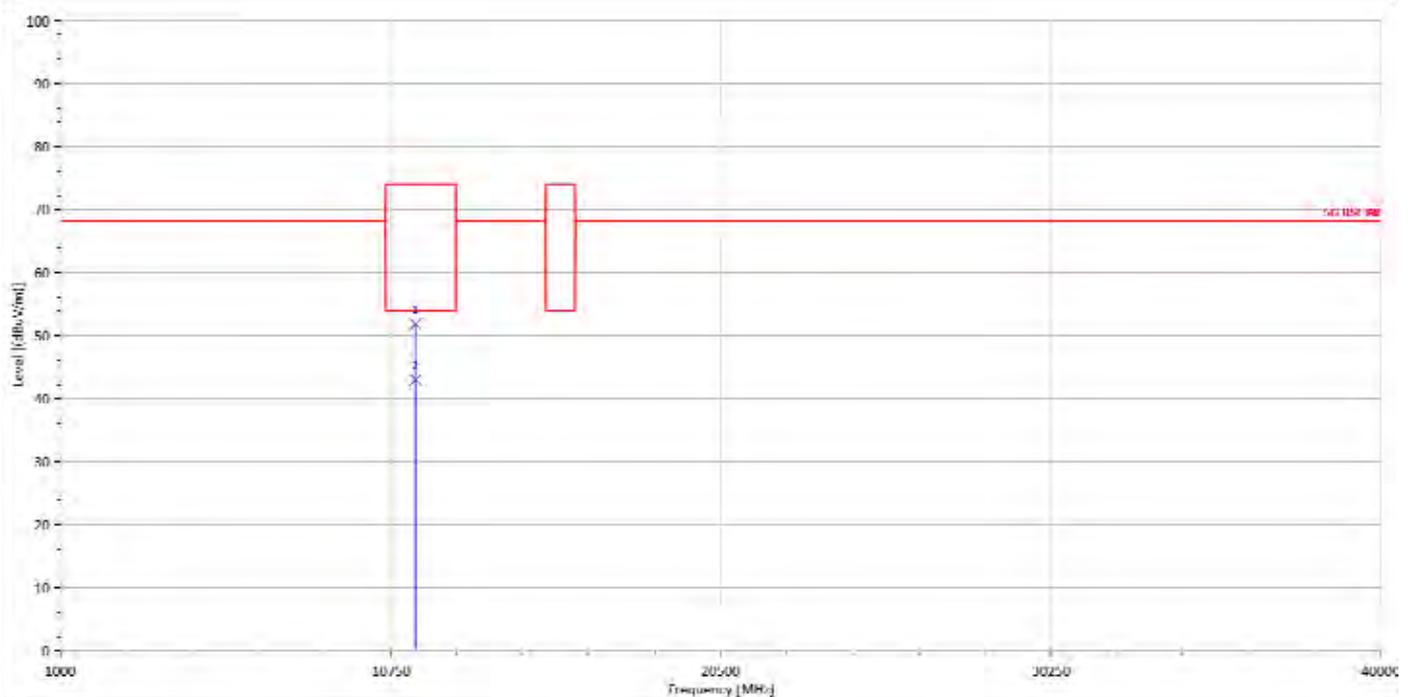
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Operation Mode : 802.11n20 Test Date : 2017/1/23
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	31.17	20.70	51.87	74	-22.13
11490.00	H	Average	22.22	20.70	42.92	54	-11.08

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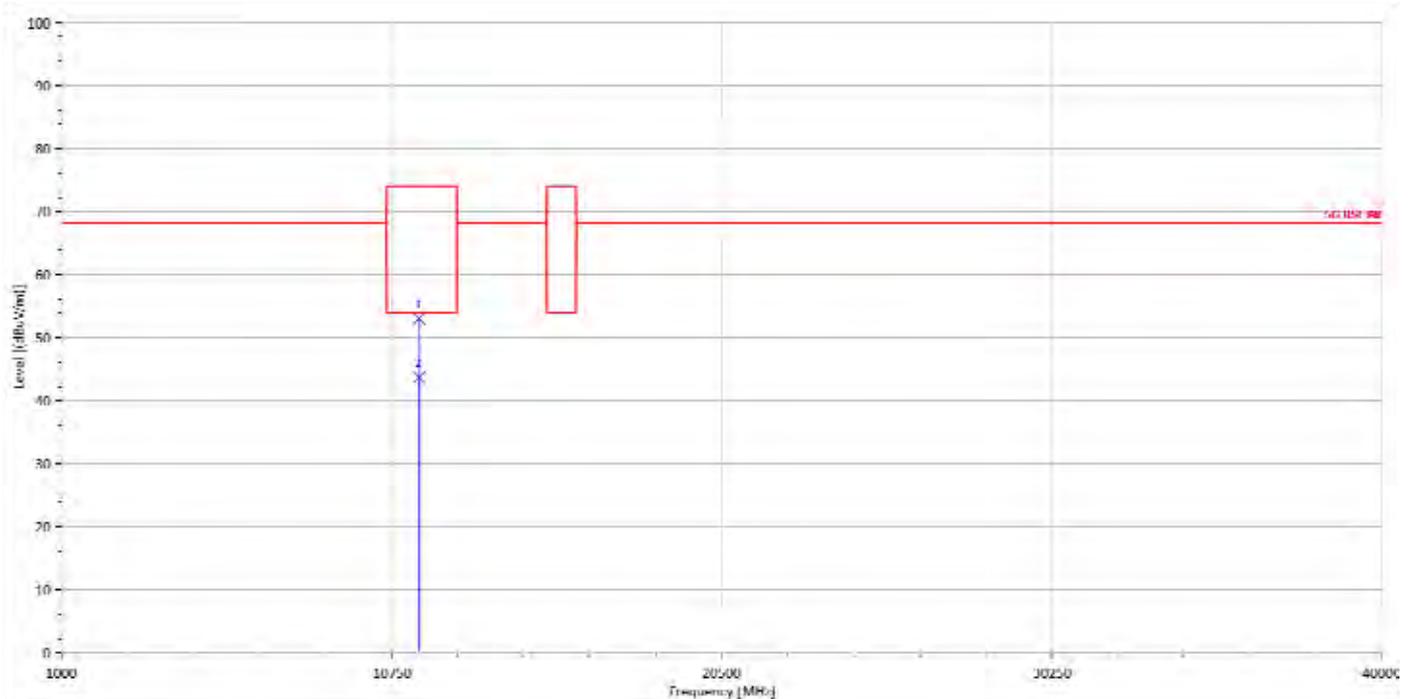
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Operation Mode : 802.11n20 Test Date : 2017/1/23
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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	31.60	21.44	53.05	74	-20.95
11570.00	H	Average	22.20	21.44	43.64	54	-10.36

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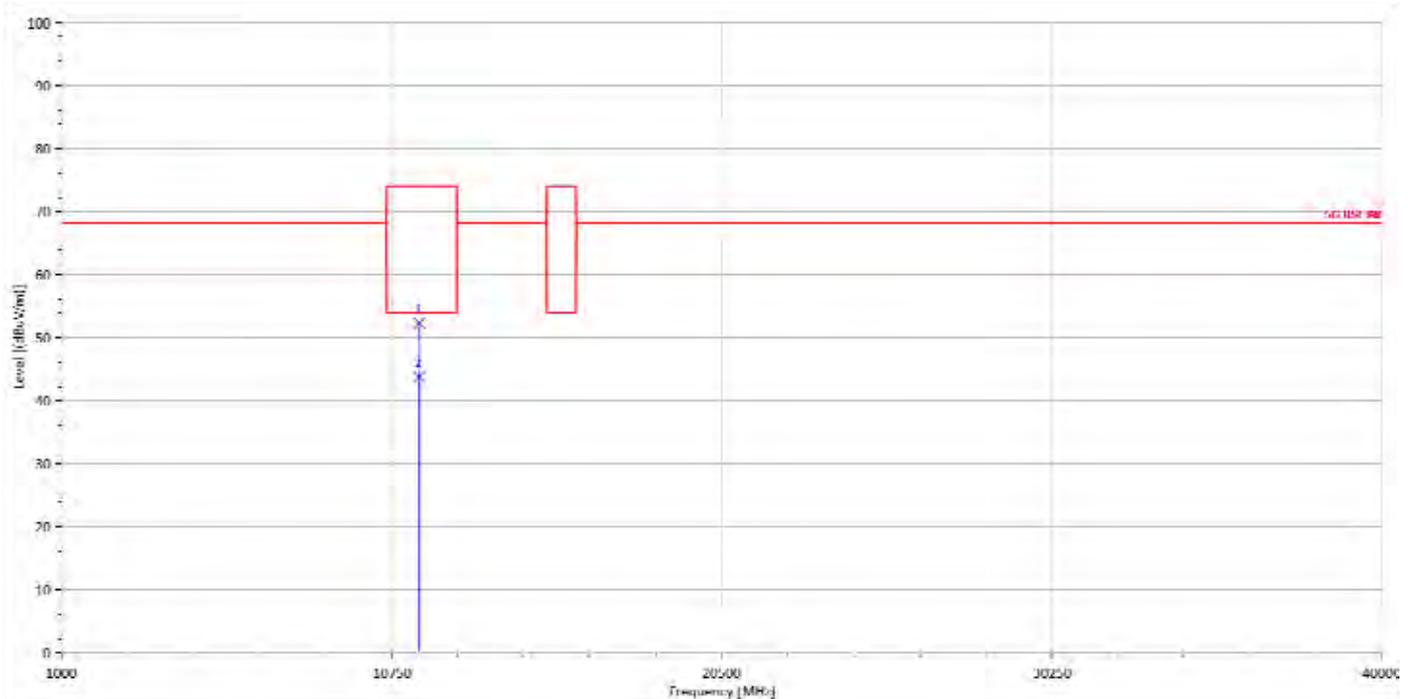
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Operation Mode : 802.11n20 Test Date : 2017/1/23
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	30.89	21.44	52.34	74	-21.66
11570.00	H	Average	22.26	21.44	43.70	54	-10.30

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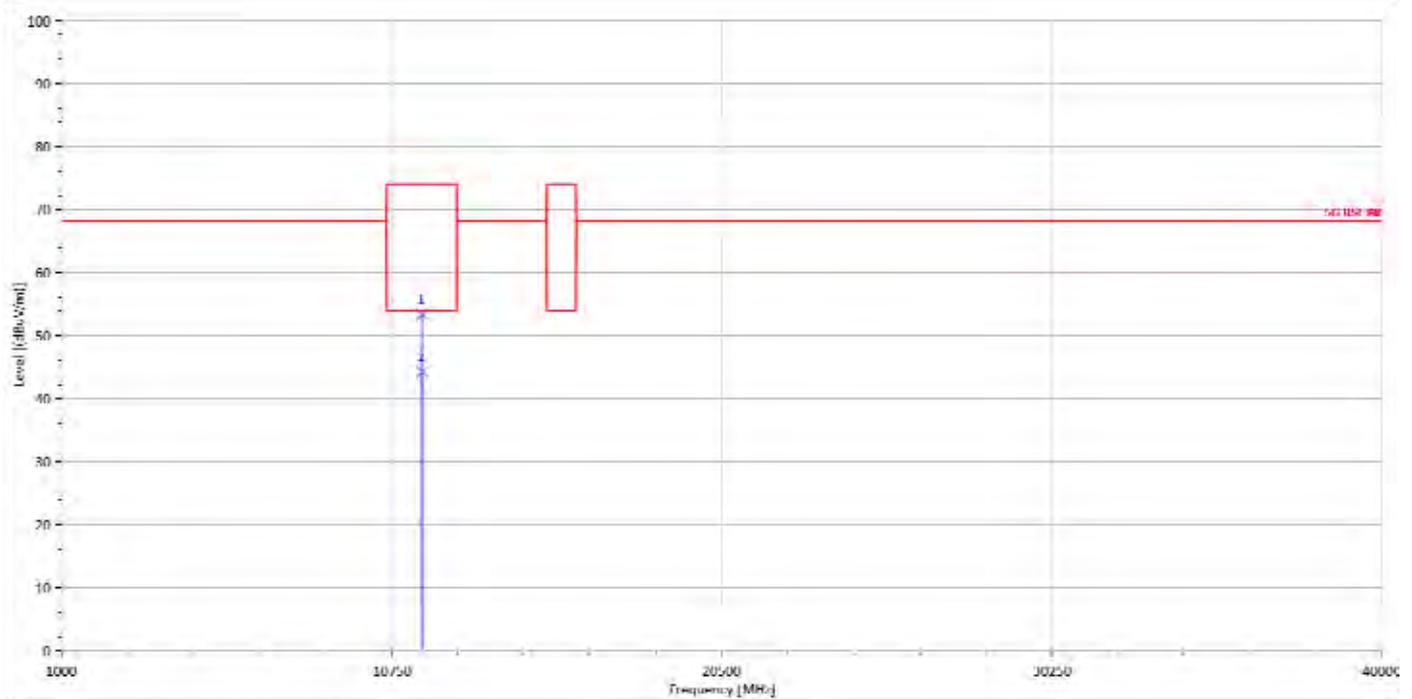
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Member of SGS Group

Operation Mode : 802.11n20 Test Date : 2017/1/23
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H 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	31.37	22.02	53.39	74	-20.61
11650.00	H	Average	22.18	22.02	44.20	54	-9.80

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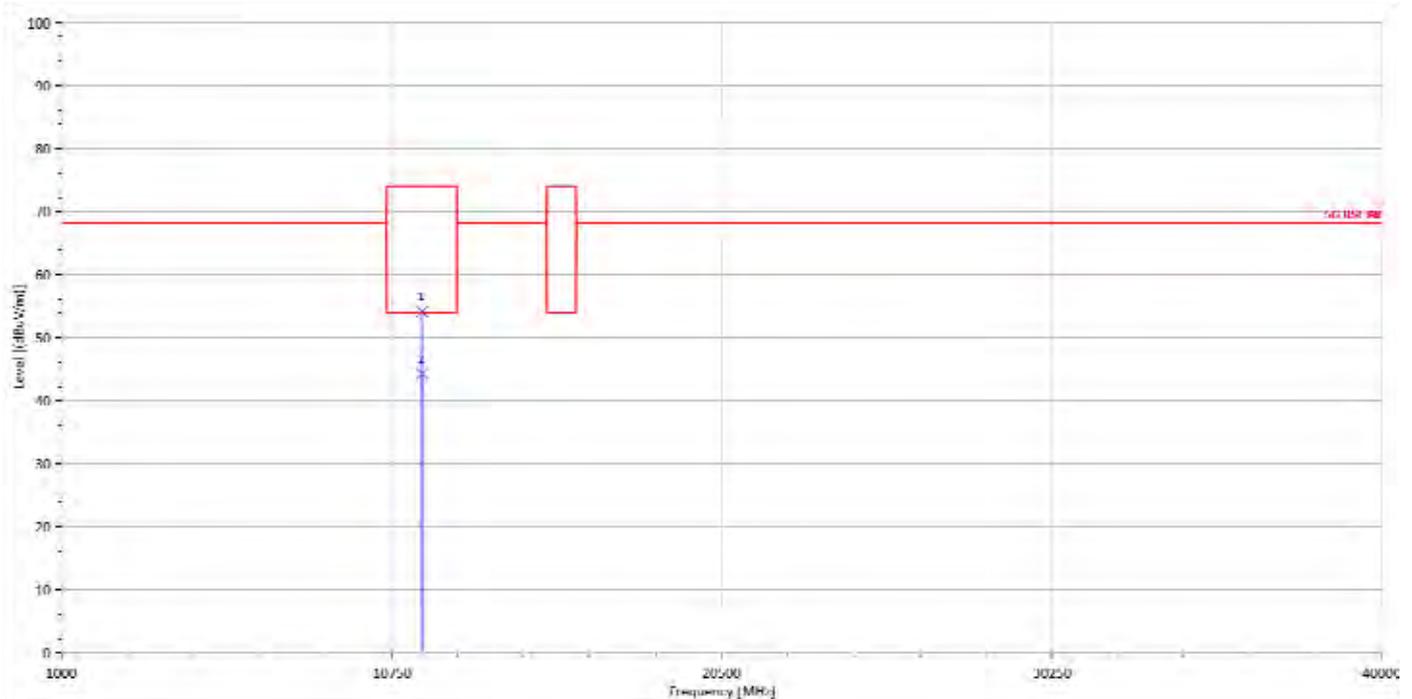
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Operation Mode : 802.11n20 Test Date : 2017/1/23
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	32.13	22.02	54.15	74	-19.85
11650.00	H	Average	22.17	22.02	44.19	54	-9.81

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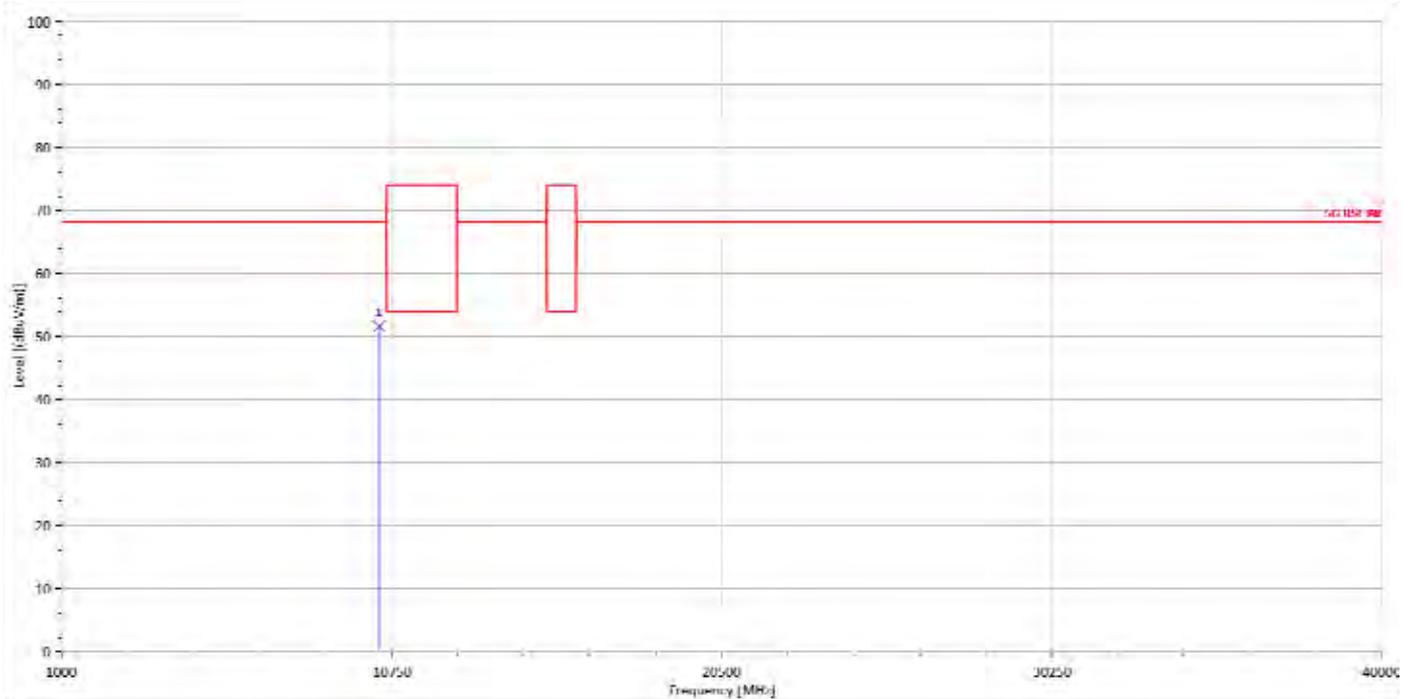
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode :	802.11n40	Test Date :	2017/1/23
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	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
10380.00	H	Peak	30.66	20.95	51.62	68.3	-16.68

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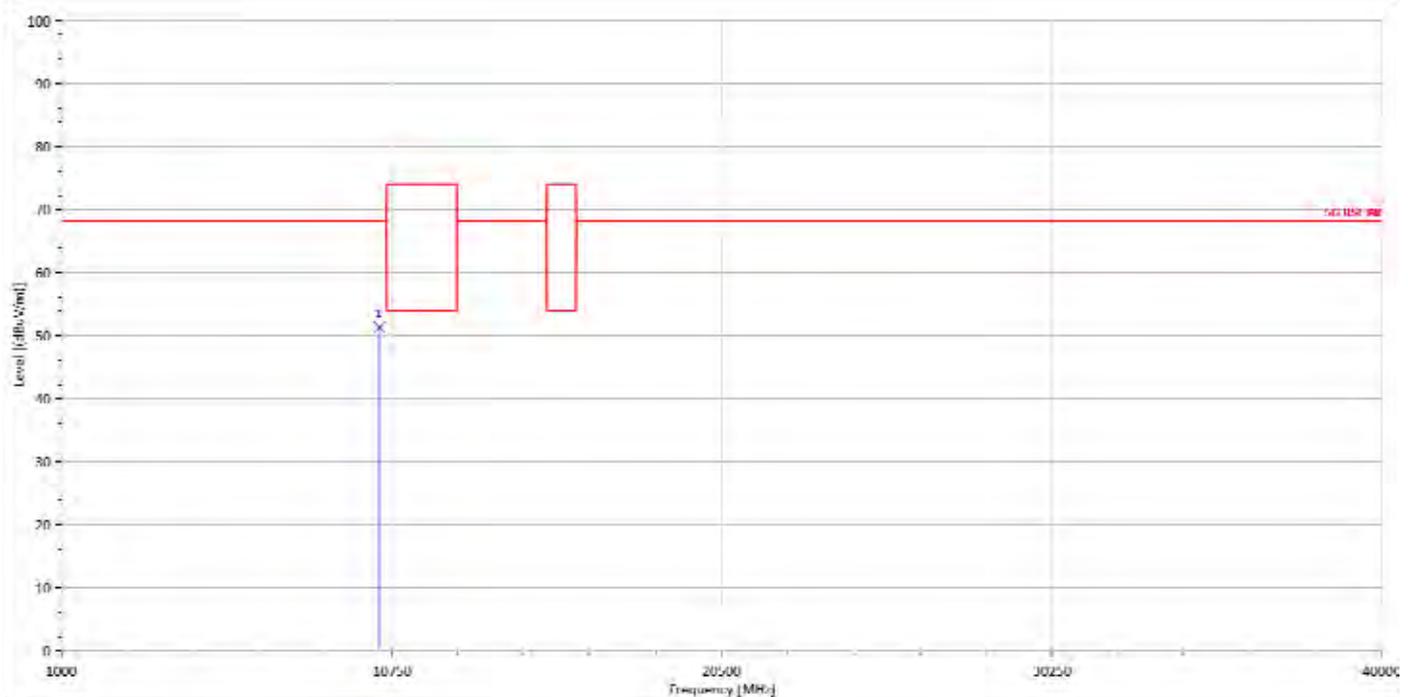
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Operation Mode : 802.11n40 Test Date : 2017/1/23
 Fundamental Frequency : 5190 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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
10380.00	H	Peak	30.39	20.95	51.34	68.3	-16.96

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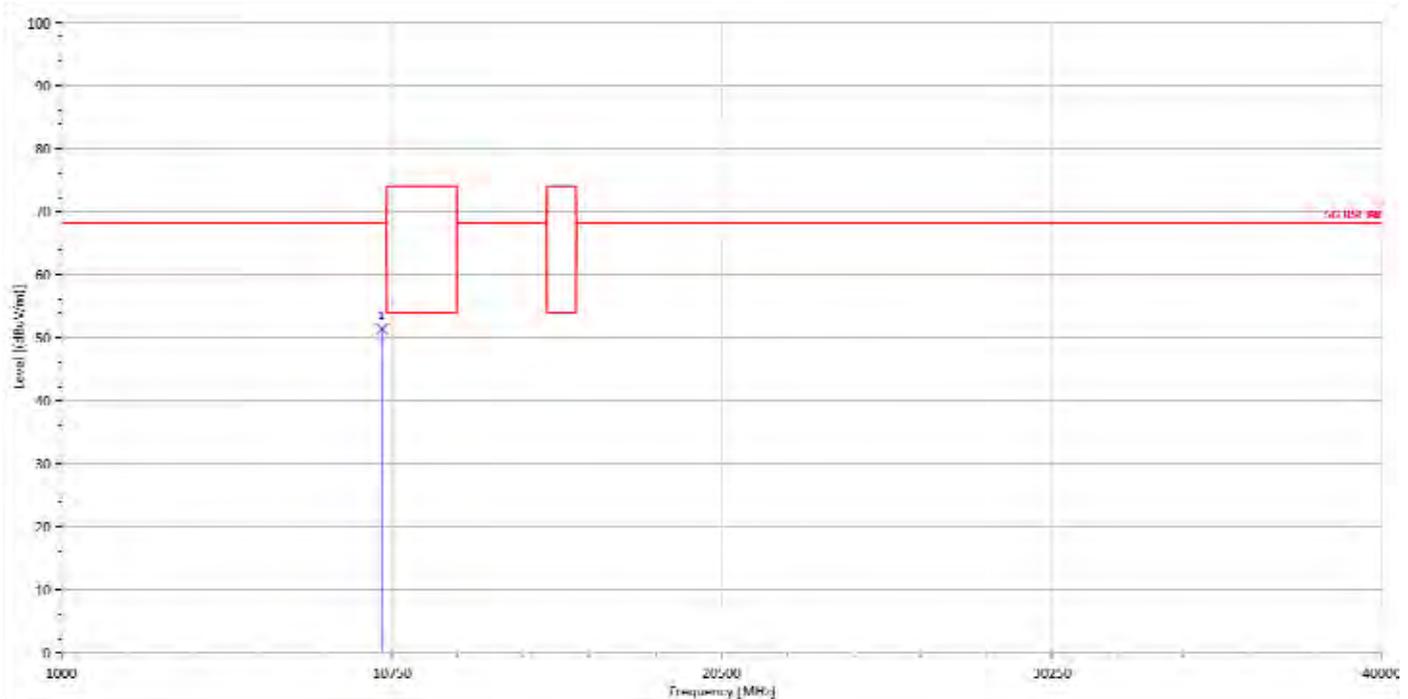
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Operation Mode : 802.11n40 Test Date : 2017/1/23
 Fundamental Frequency : 5230 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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	30.43	20.95	51.38	68.3	-16.92

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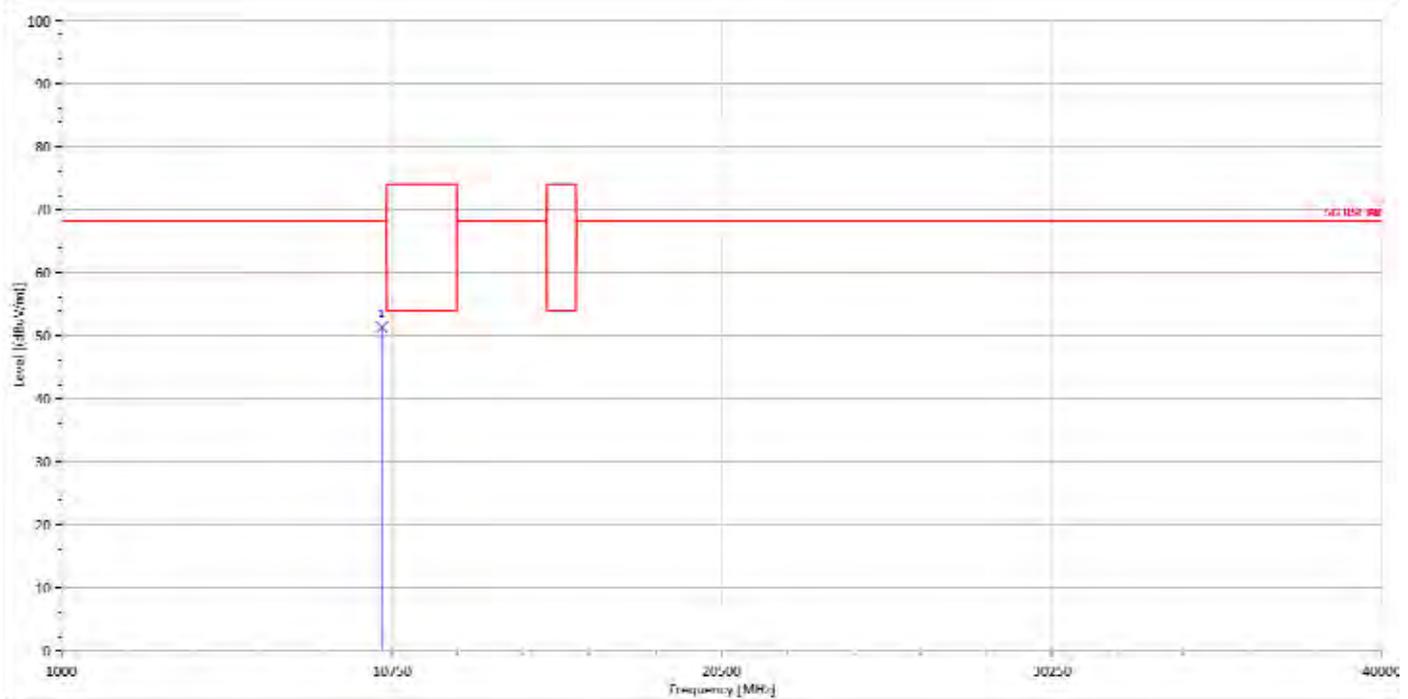
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Operation Mode : 802.11n40 Test Date : 2017/1/23
 Fundamental Frequency : 5230 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	30.38	20.95	51.33	68.3	-16.97

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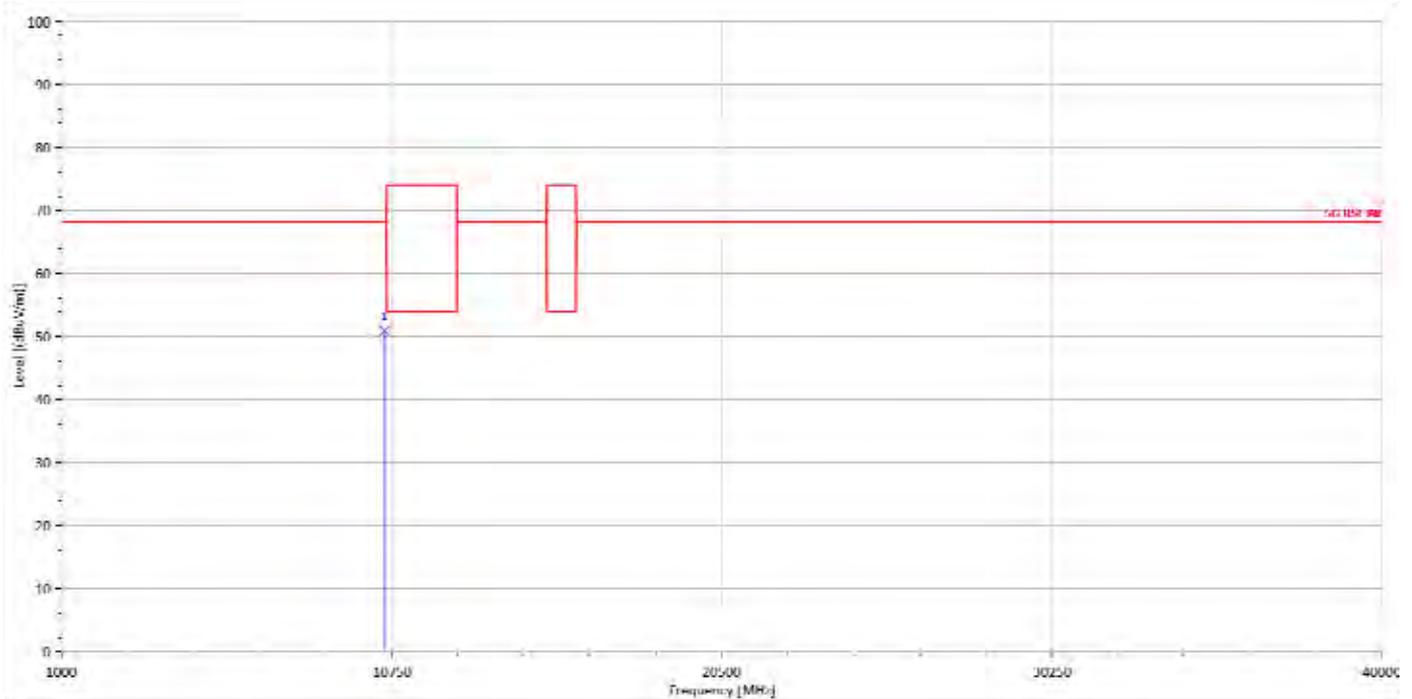
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Mode :	802.11n40	Test Date :	2017/1/23
Fundamental Frequency :	5270 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	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
10540.00	H	Peak	30.86	20.06	50.92	68.3	-17.38

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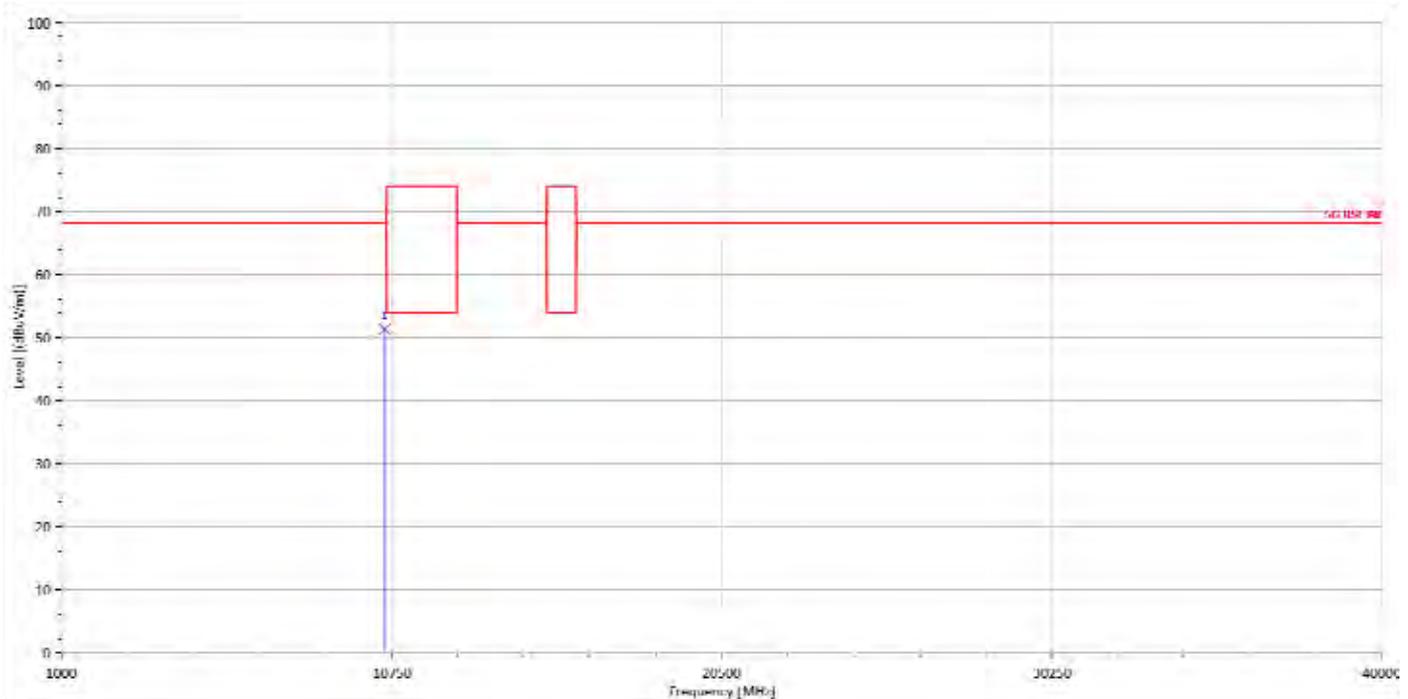
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Operation Mode : 802.11n40 Test Date : 2017/1/23
 Fundamental Frequency : 5270 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	31.29	20.06	51.35	68.3	-16.95

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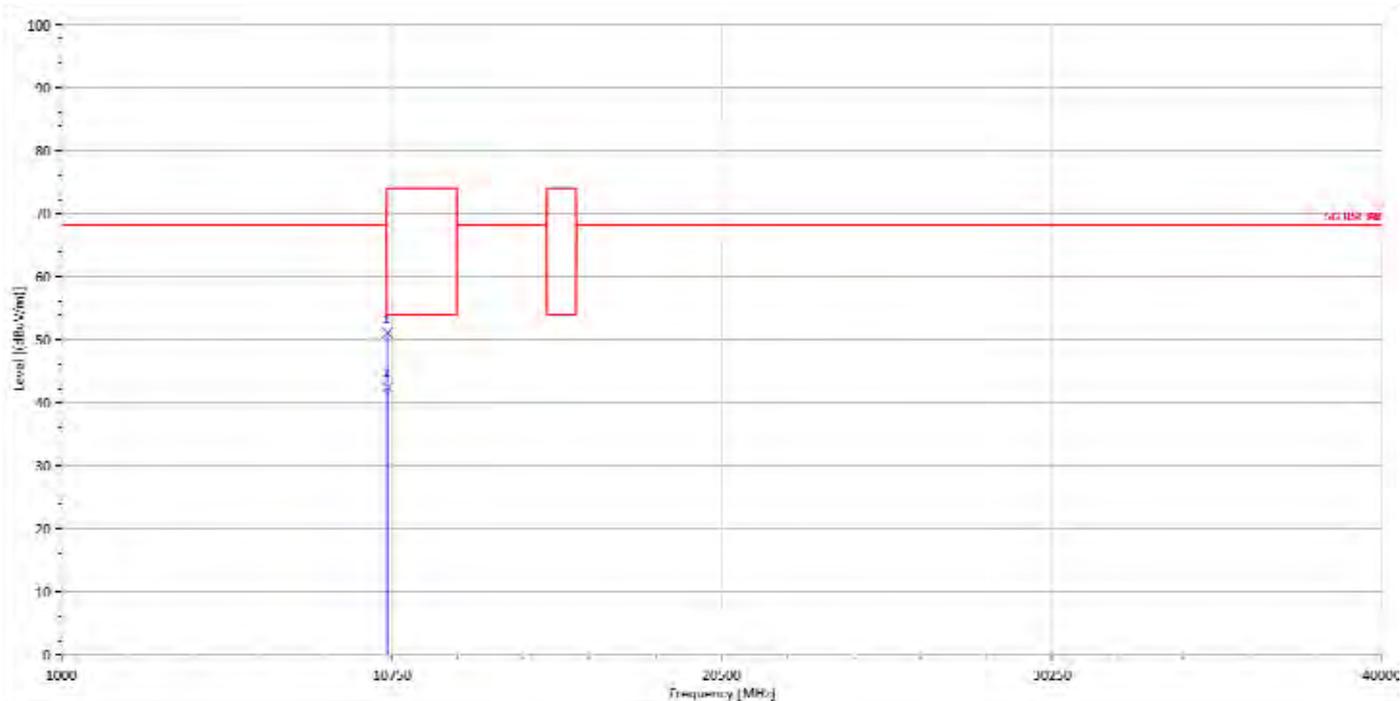
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Operation Mode : 802.11n40 Test Date : 2017/1/23
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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	30.77	20.29	51.06	74	-22.94
10620.00	H	Average	22.07	20.29	42.36	54	-11.64

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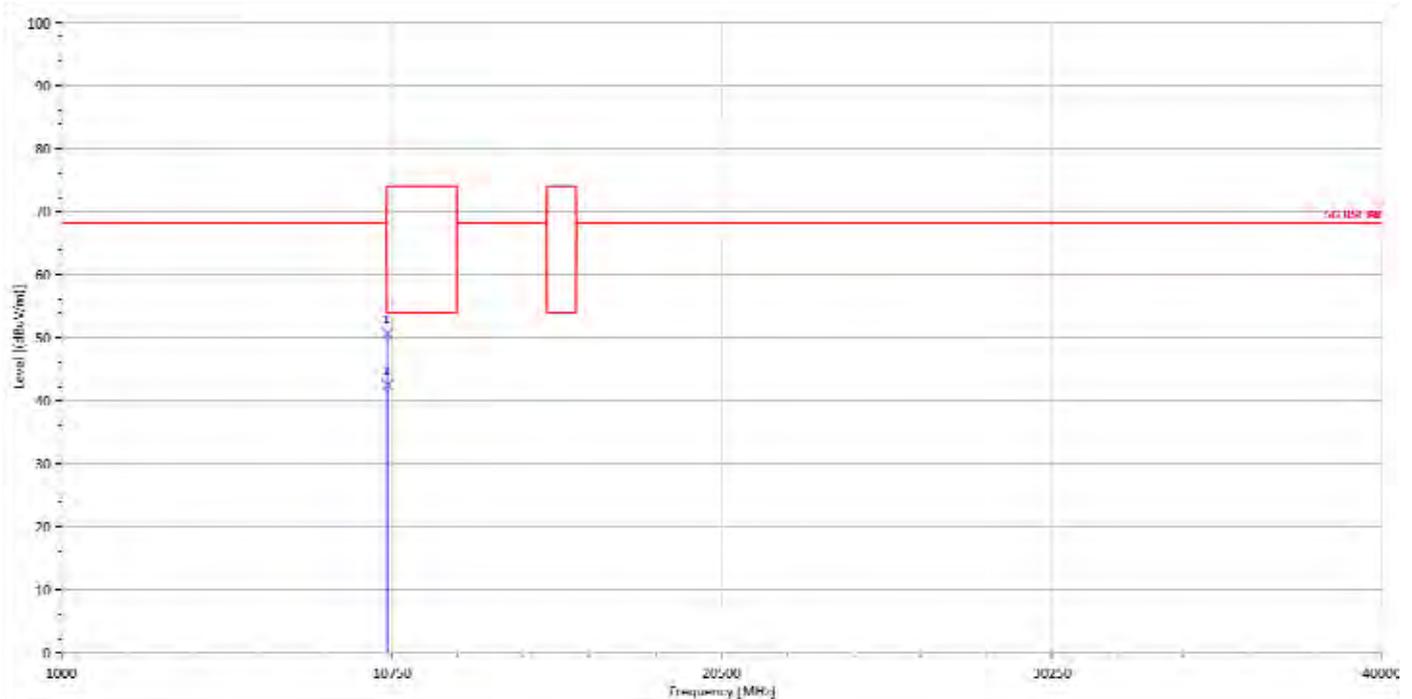
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 Fundamental Frequency : 5310 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	30.39	20.29	50.68	74	-23.32
10620.00	H	Average	22.12	20.29	42.41	54	-11.59

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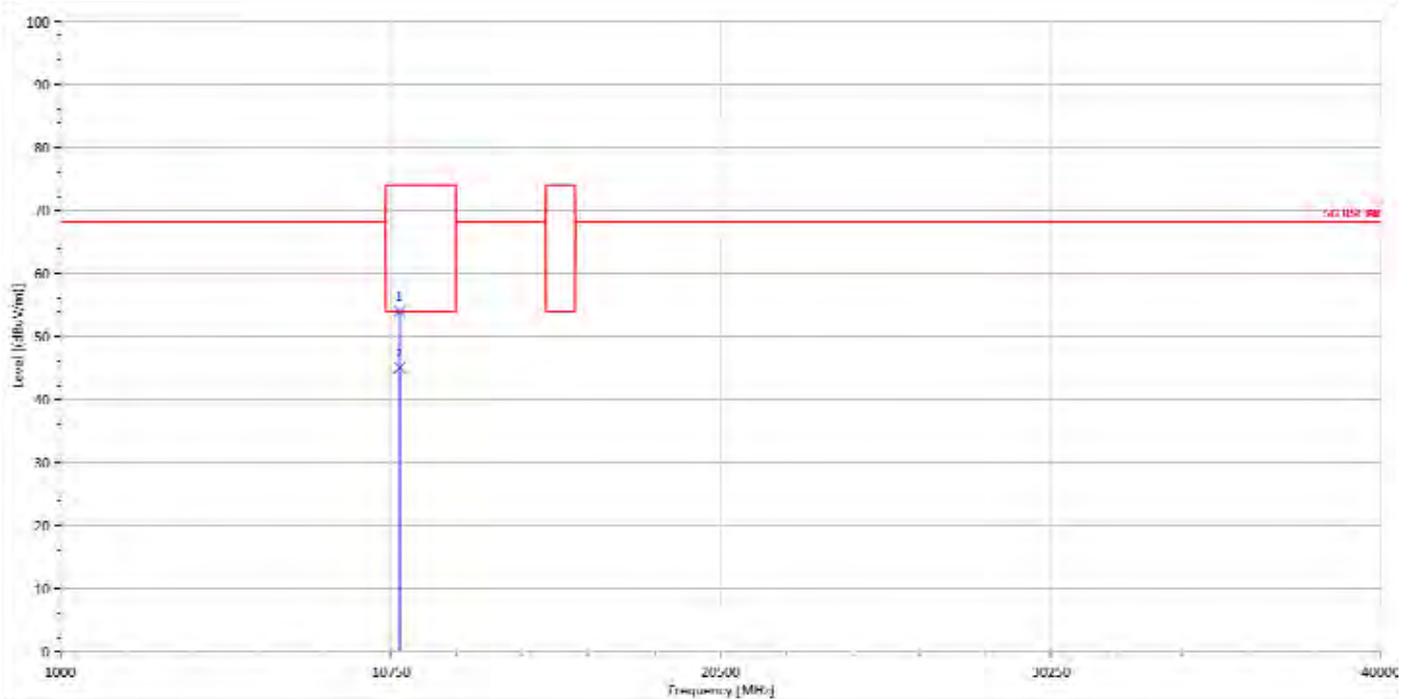
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Mode : 802.11n40 Test Date : 2017/1/23
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H 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	31.11	22.90	54.01	74	-19.99
11020.00	H	Average	22.11	22.90	45.01	54	-8.99

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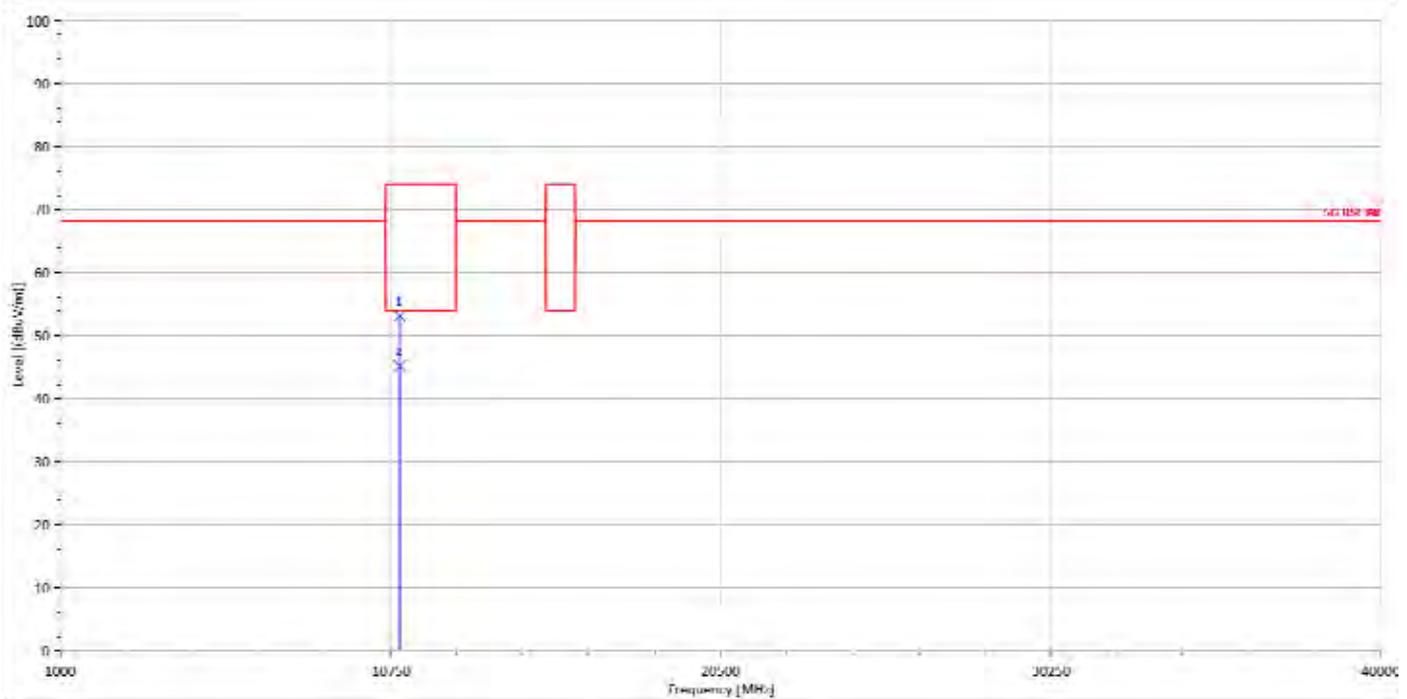
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Operation Mode : 802.11n40 Test Date : 2017/1/23
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	30.25	22.90	53.15	74	-20.85
11020.00	H	Average	22.25	22.90	45.15	54	-8.85

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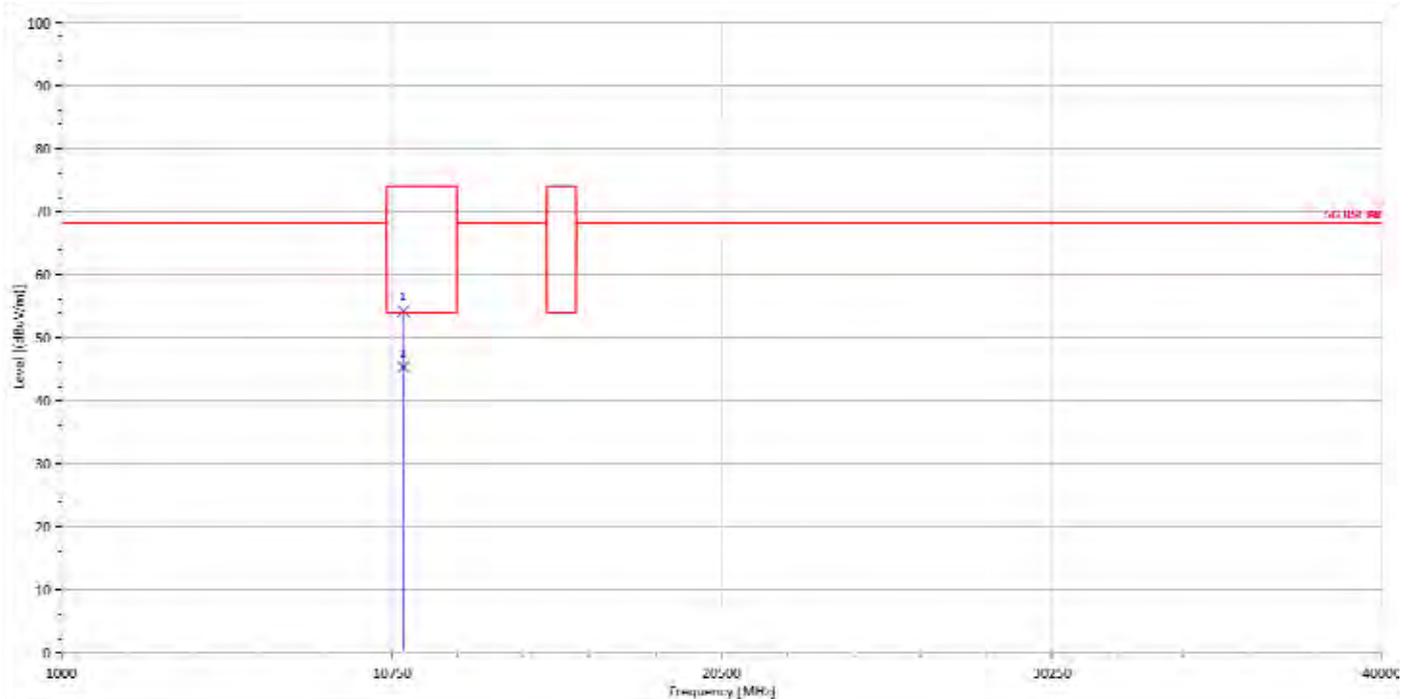
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Operation Mode : 802.11n40 Test Date : 2017/1/23
 Fundamental Frequency : 5550 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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	31.10	23.16	54.26	74	-19.74
11100.00	H	Average	22.08	23.16	45.24	54	-8.76

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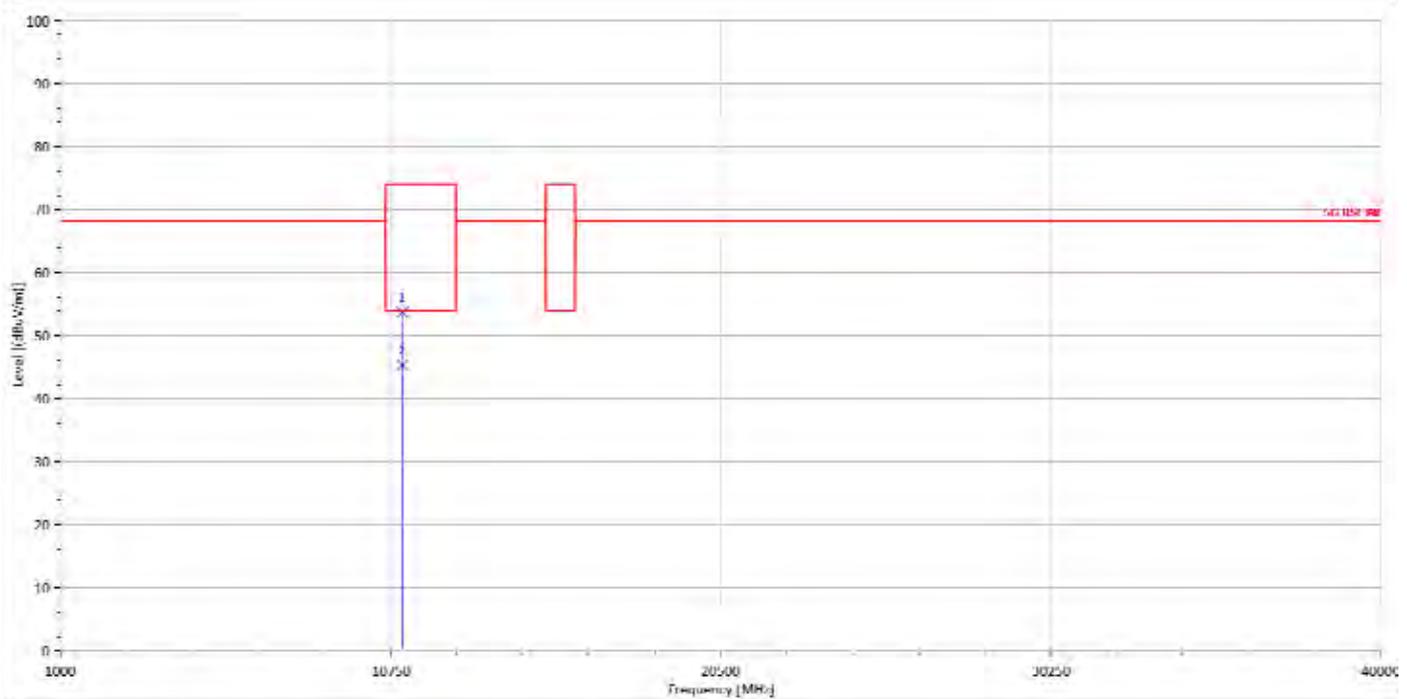
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Operation Mode : 802.11n40 Test Date : 2017/1/23
 Fundamental Frequency : 5550 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	30.63	23.16	53.80	74	-20.20
11100.00	H	Average	22.11	23.16	45.27	54	-8.73

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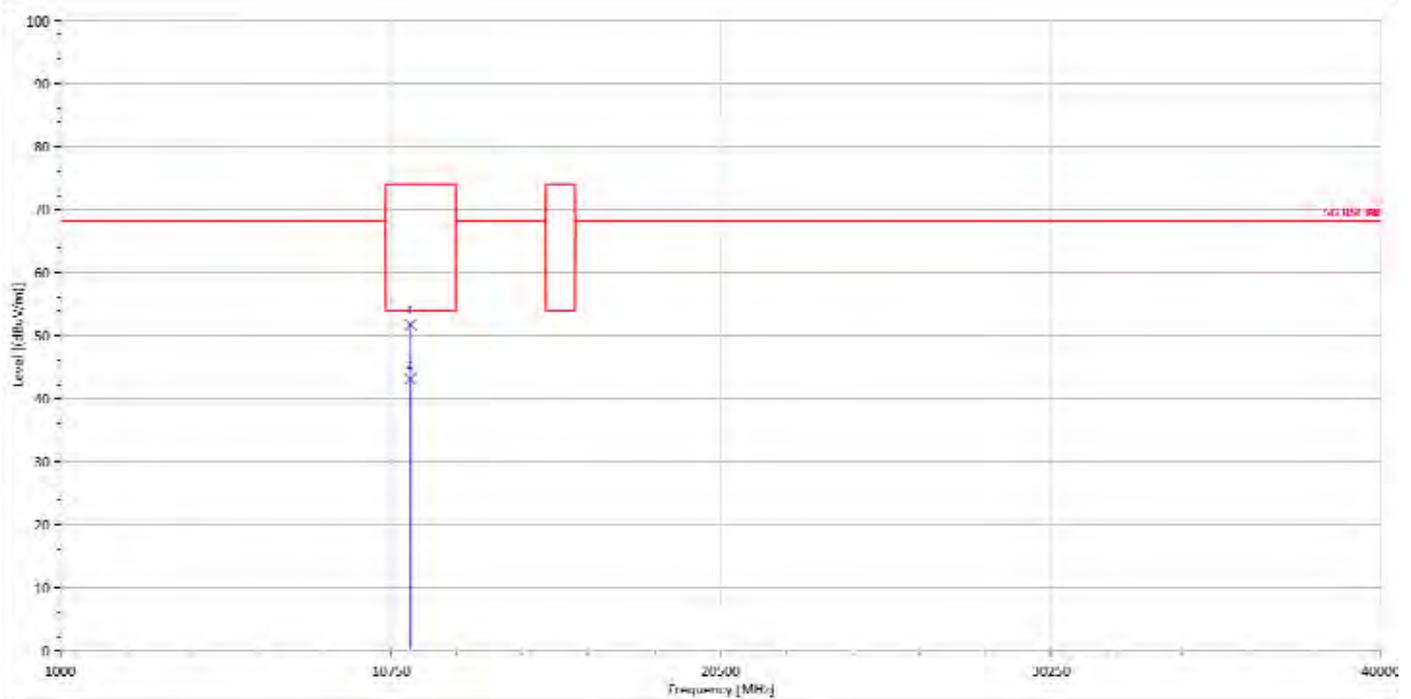
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Operation Mode : 802.11n40 Test Date : 2017/1/23
 Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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
11340.00	H	Peak	30.78	20.97	51.74	74	-22.26
11340.00	H	Average	22.07	20.97	43.04	54	-10.96

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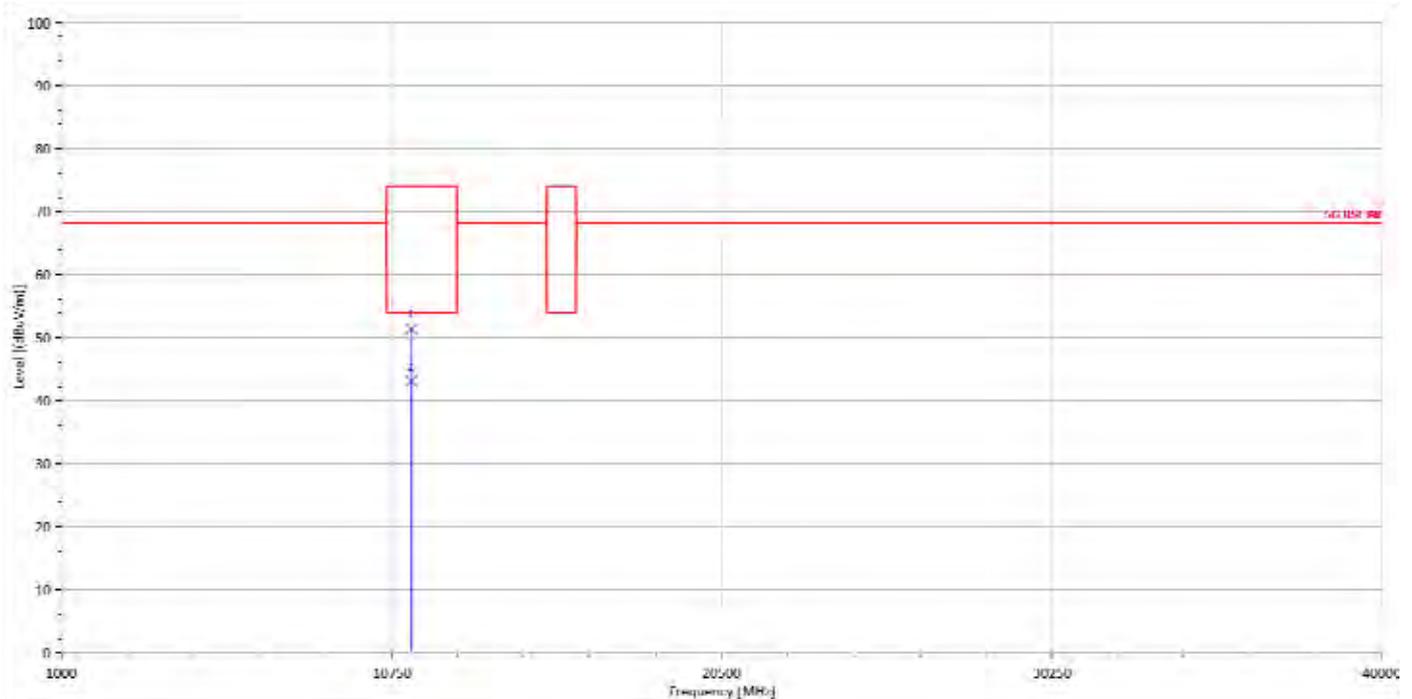
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Operation Mode : 802.11n40 Test Date : 2017/1/23
 Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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
11340.00	H	Peak	30.43	20.97	51.39	74	-22.61
11340.00	H	Average	22.14	20.97	43.11	54	-10.89

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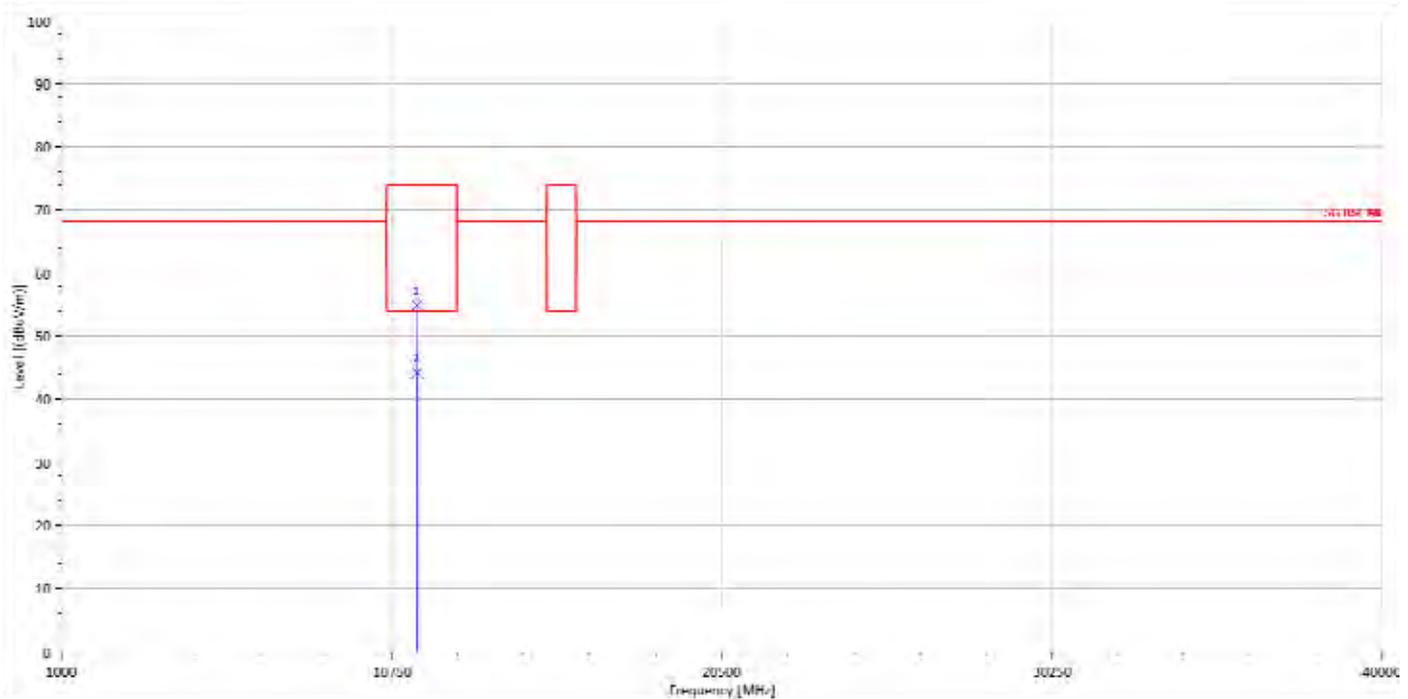
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode :	802.11n40	Test Date :	2017/1/23
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	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	32.77	22.17	54.94	74	-19.06
11510.00	H	Average	22.09	22.17	44.26	54	-9.74

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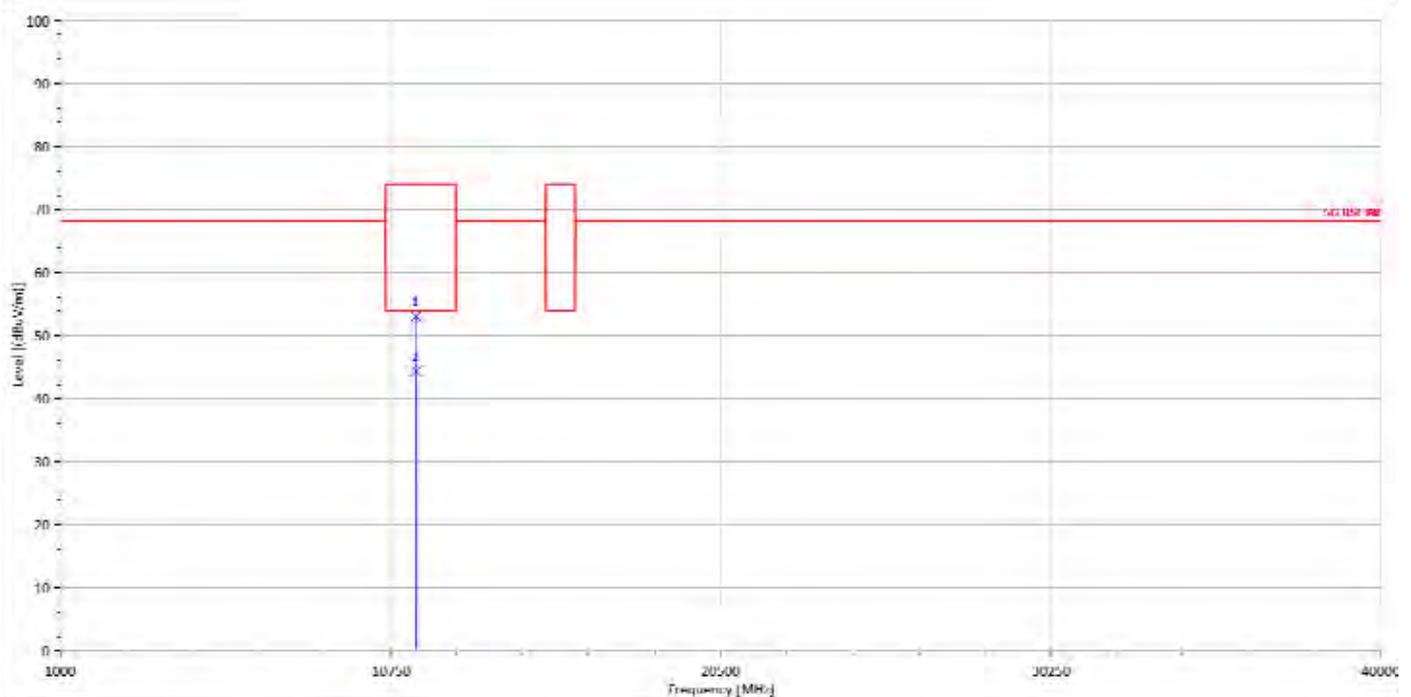
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Operation Mode : 802.11n40 Test Date : 2017/1/23
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	30.91	22.17	53.07	74	-20.93
11510.00	H	Average	22.16	22.17	44.33	54	-9.67

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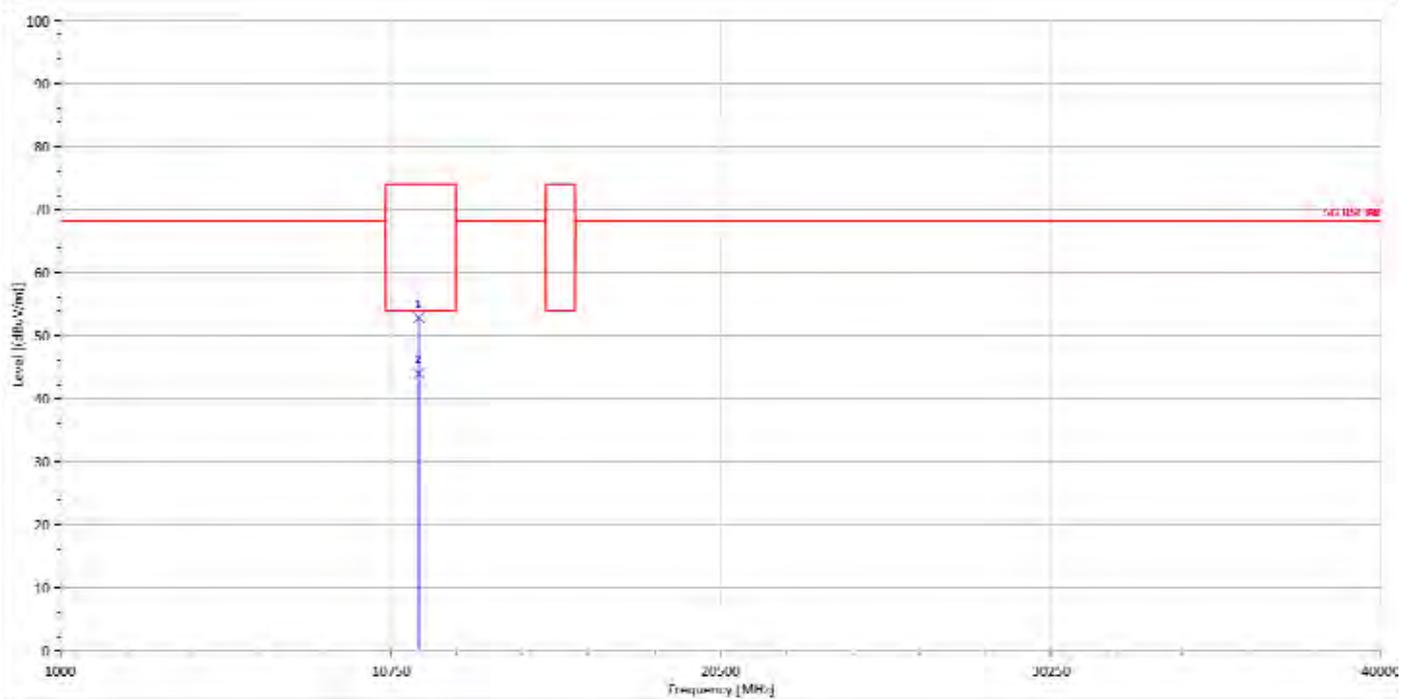
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Operation Mode : 802.11n40 Test Date : 2017/1/23
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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	31.00	21.84	52.85	74	-21.15
11590.00	H	Average	22.07	21.84	43.91	54	-10.09

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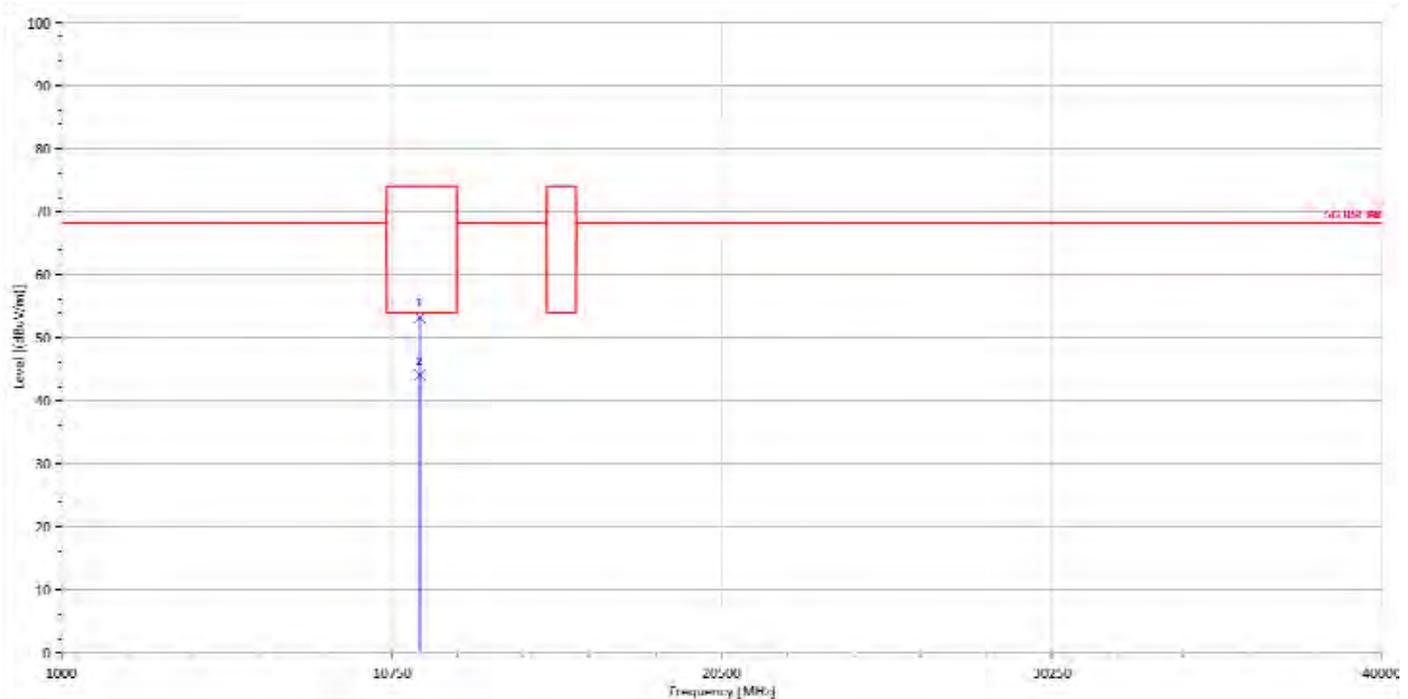
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Operation Mode : 802.11n40 Test Date : 2017/1/23
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	31.38	21.84	53.22	74	-20.78
11590.00	H	Average	22.16	21.84	44.00	54	-10.00

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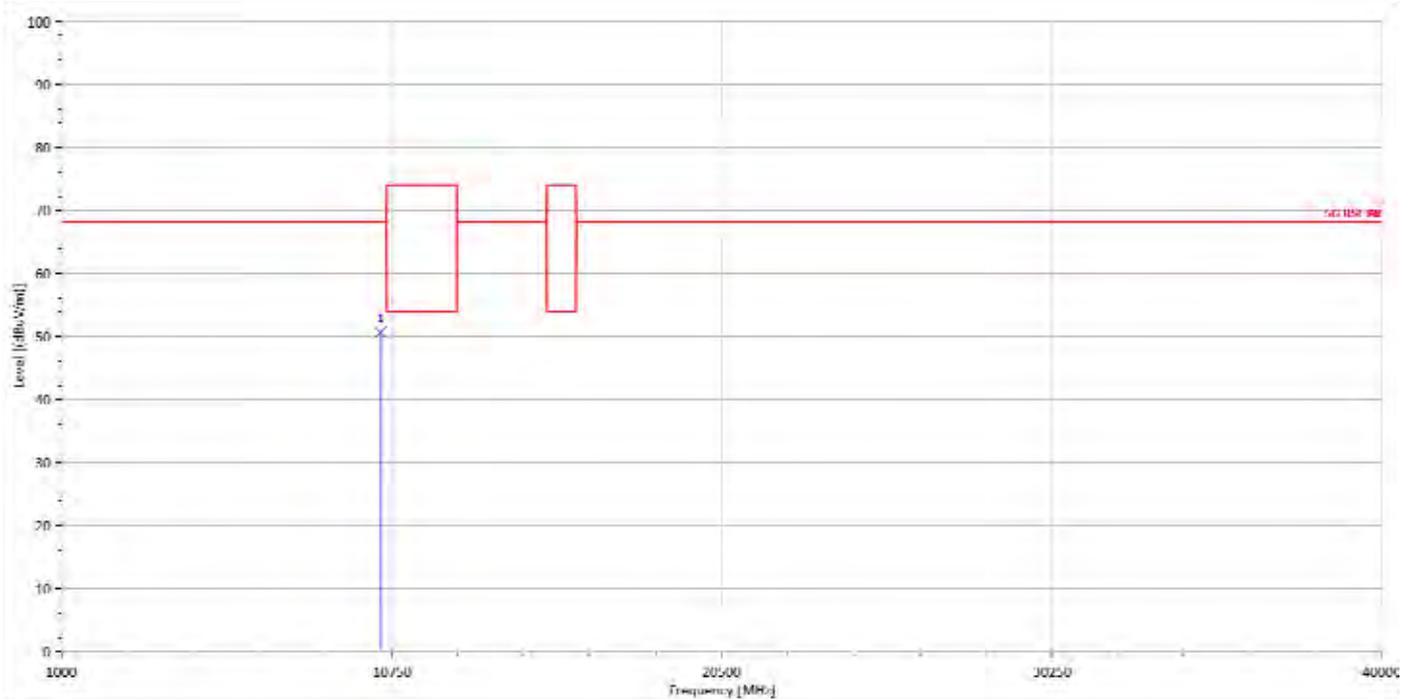
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode :	802.11ac80	Test Date :	2017/1/23
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	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
10420.00	H	Peak	30.01	20.67	50.67	68.3	-17.63

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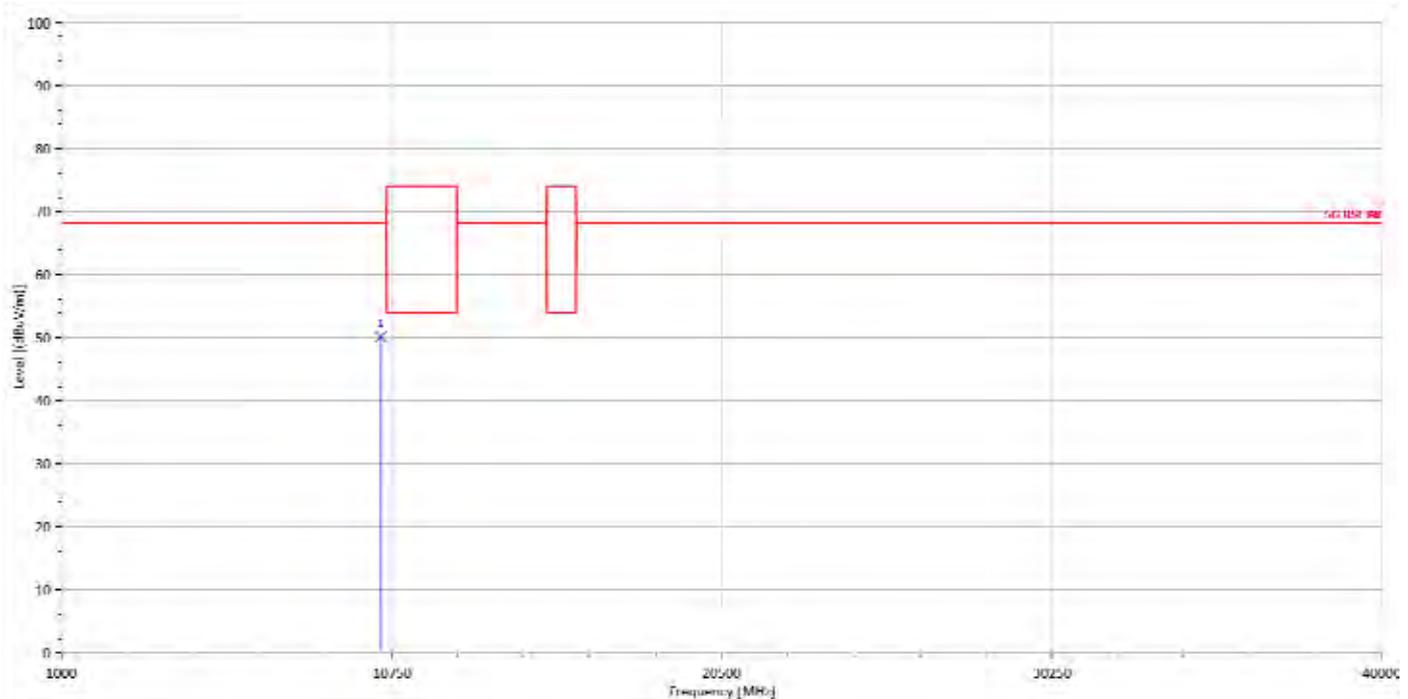
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Operation Mode :	802.11ac80	Test Date :	2017/1/23
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



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
10420.00	H	Peak	29.44	20.67	50.11	68.3	-18.19

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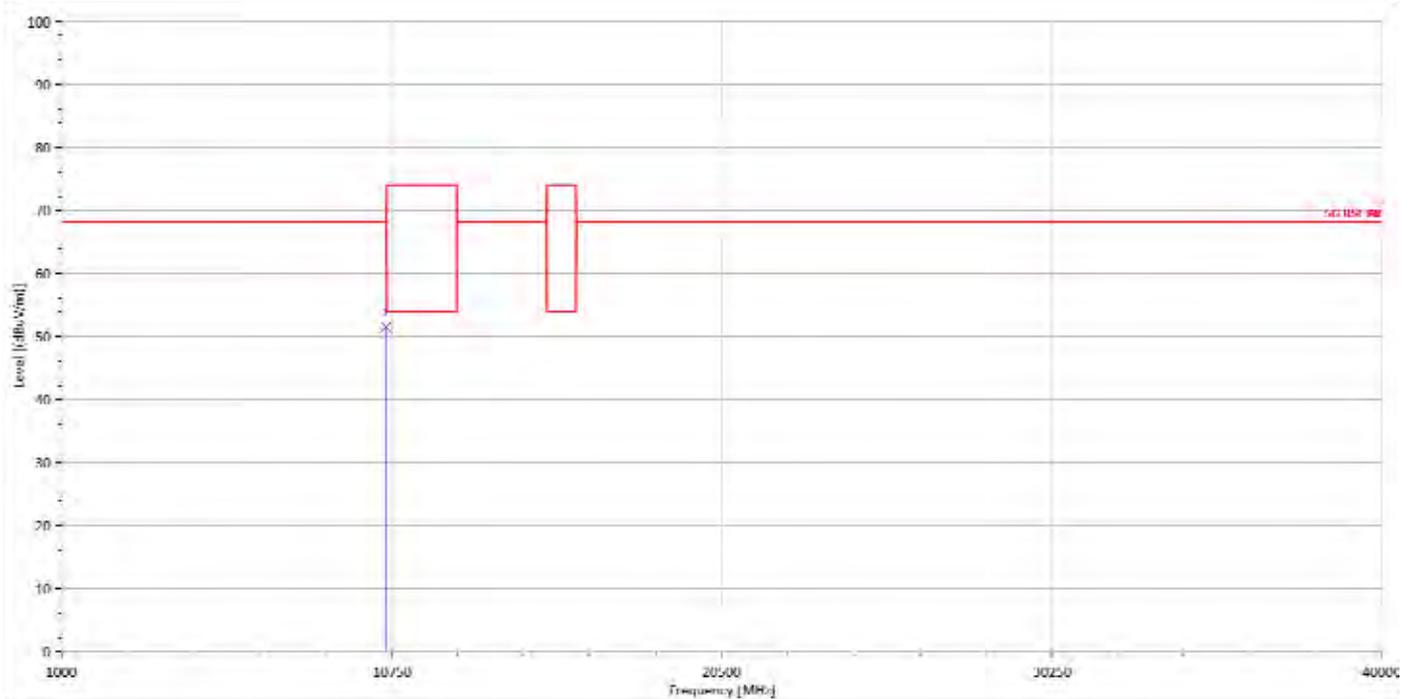
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Mode :	802.11ac80	Test Date :	2017/1/23
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	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
10580.00	H	Peak	31.37	20.12	51.49	68.3	-16.81

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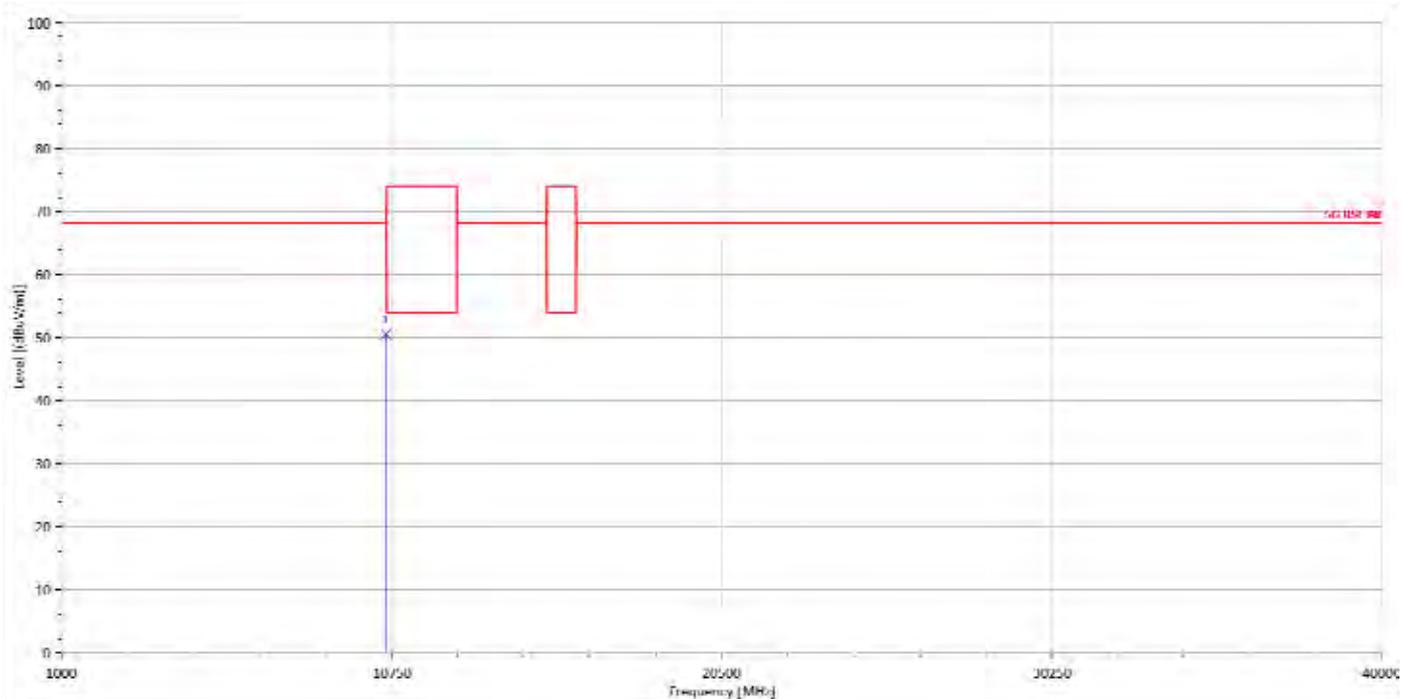
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Operation Mode :	802.11ac80	Test Date :	2017/1/23
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



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
10580.00	H	Peak	30.45	20.12	50.57	68.3	-17.73

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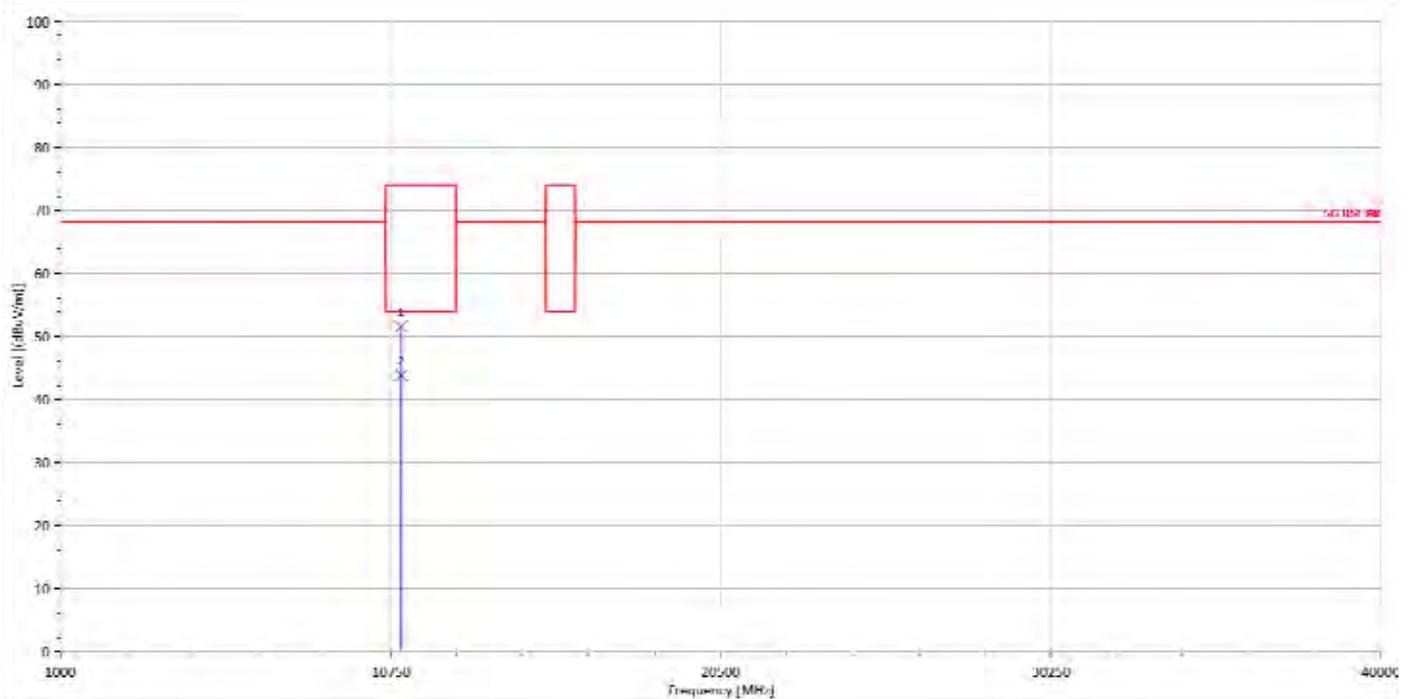
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Mode :	802.11ac80	Test Date :	2017/1/23
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	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
11060.00	H	Peak	29.75	21.83	51.58	74	-22.42
11060.00	H	Average	21.95	21.83	43.78	54	-10.22

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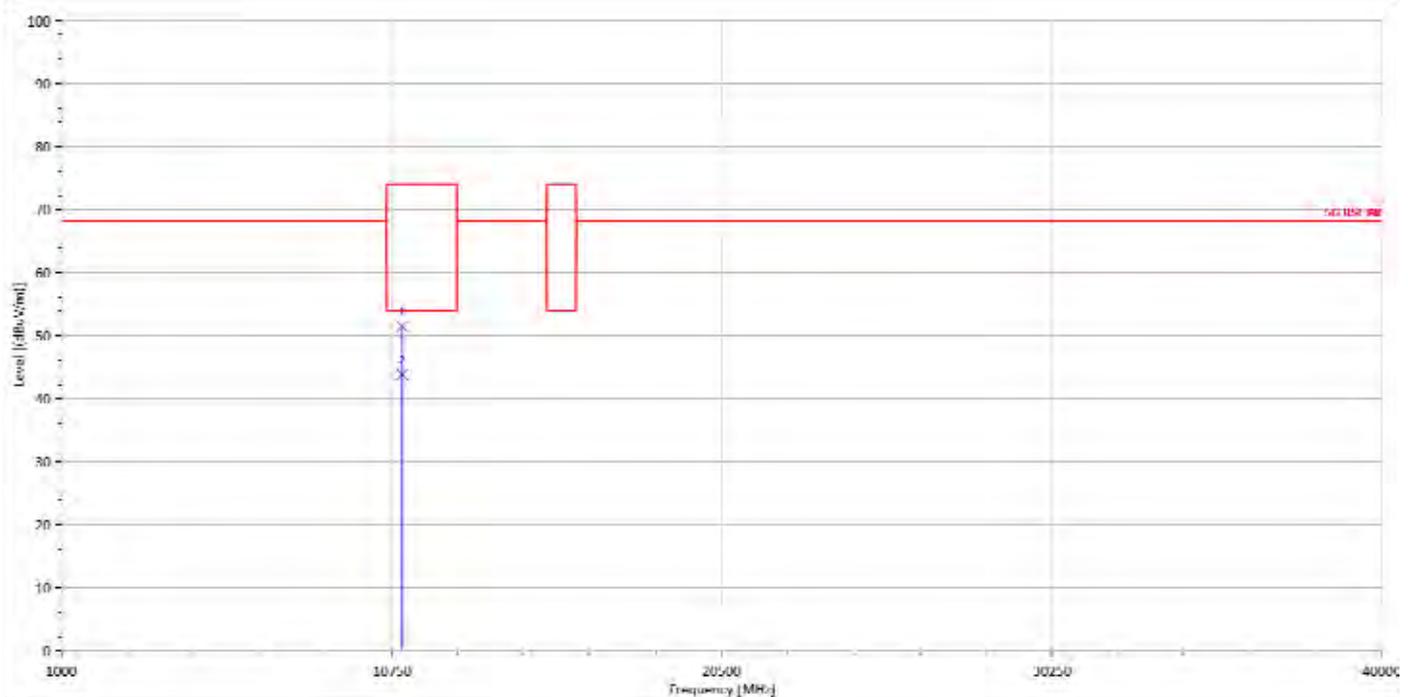
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Operation Mode :	802.11ac80	Test Date :	2017/1/23
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



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
11060.00	H	Peak	29.69	21.83	51.52	74	-22.48
11060.00	H	Average	21.95	21.83	43.78	54	-10.22

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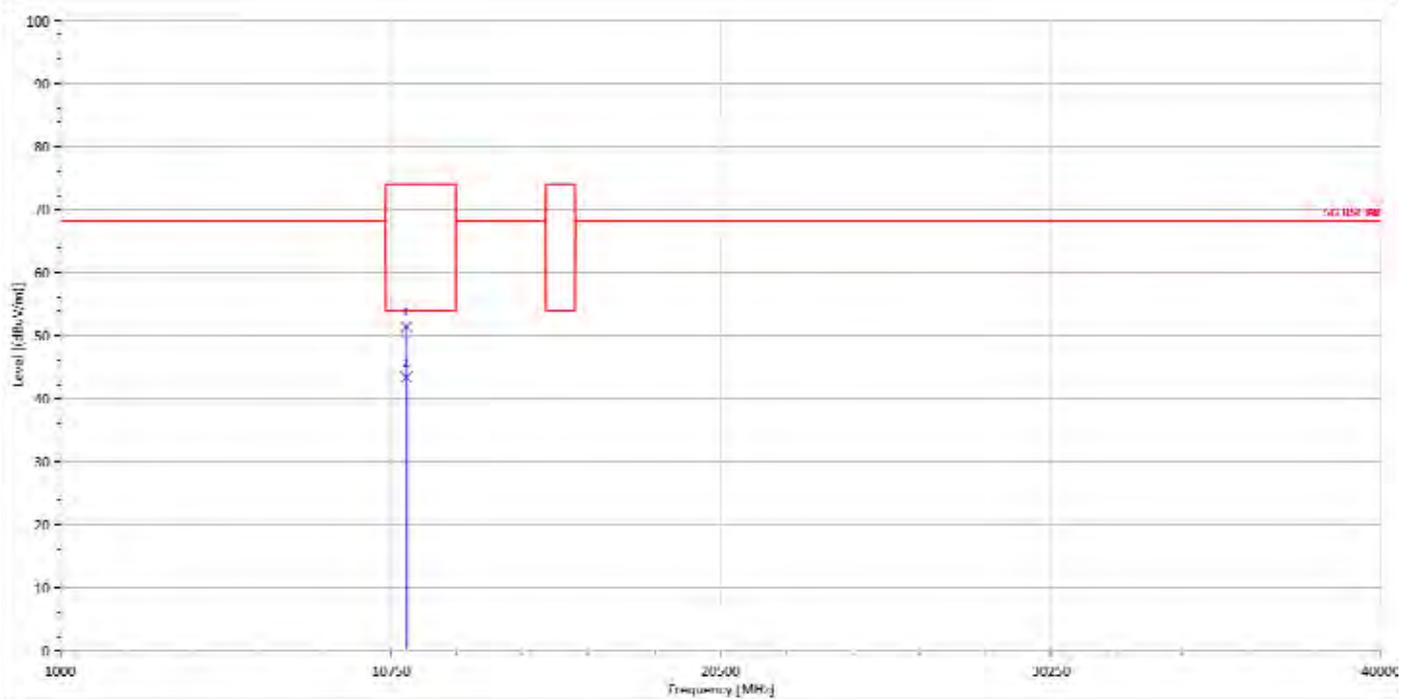
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Operation Mode :	802.11ac80	Test Date :	2017/1/23
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



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
11220.00	H	Peak	30.09	21.32	51.41	74	-22.59
11220.00	H	Average	22.02	21.32	43.34	54	-10.66

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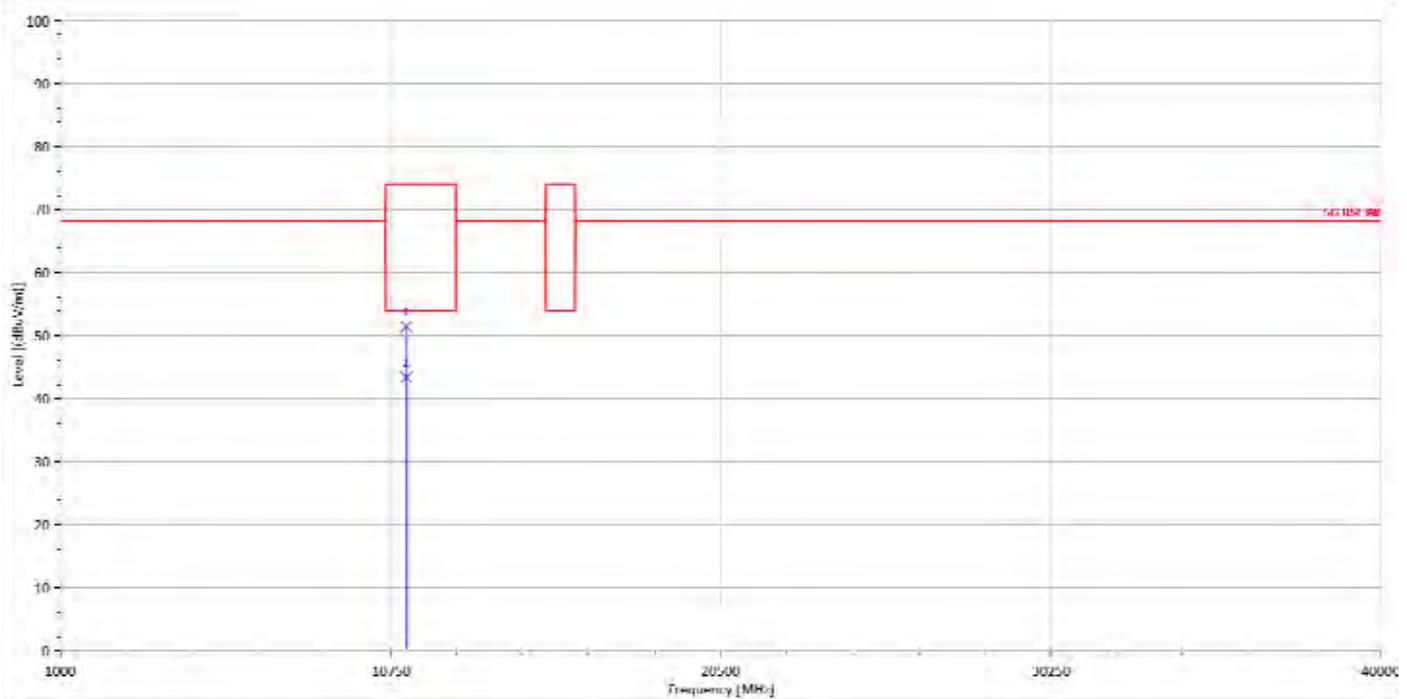
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Operation Mode :	802.11ac80	Test Date :	2017/1/23
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



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
11220.00	H	Peak	30.15	21.32	51.47	74	-22.53
11220.00	H	Average	22.01	21.32	43.33	54	-10.67

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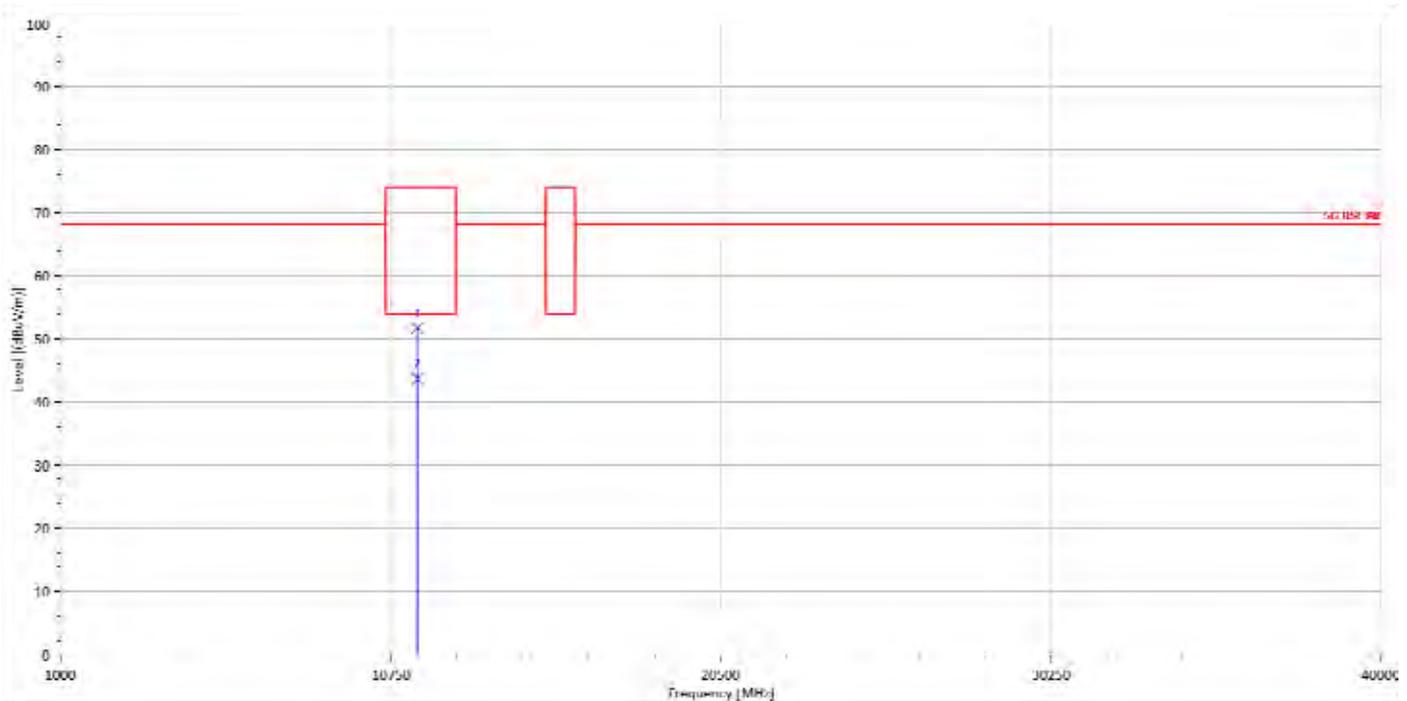
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Mode : 802.11ac80 Test Date : 2017/1/23
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H 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
11550.00	H	Peak	30.35	21.41	51.77	74	-22.23
11550.00	H	Average	22.31	21.41	43.72	54	-10.28

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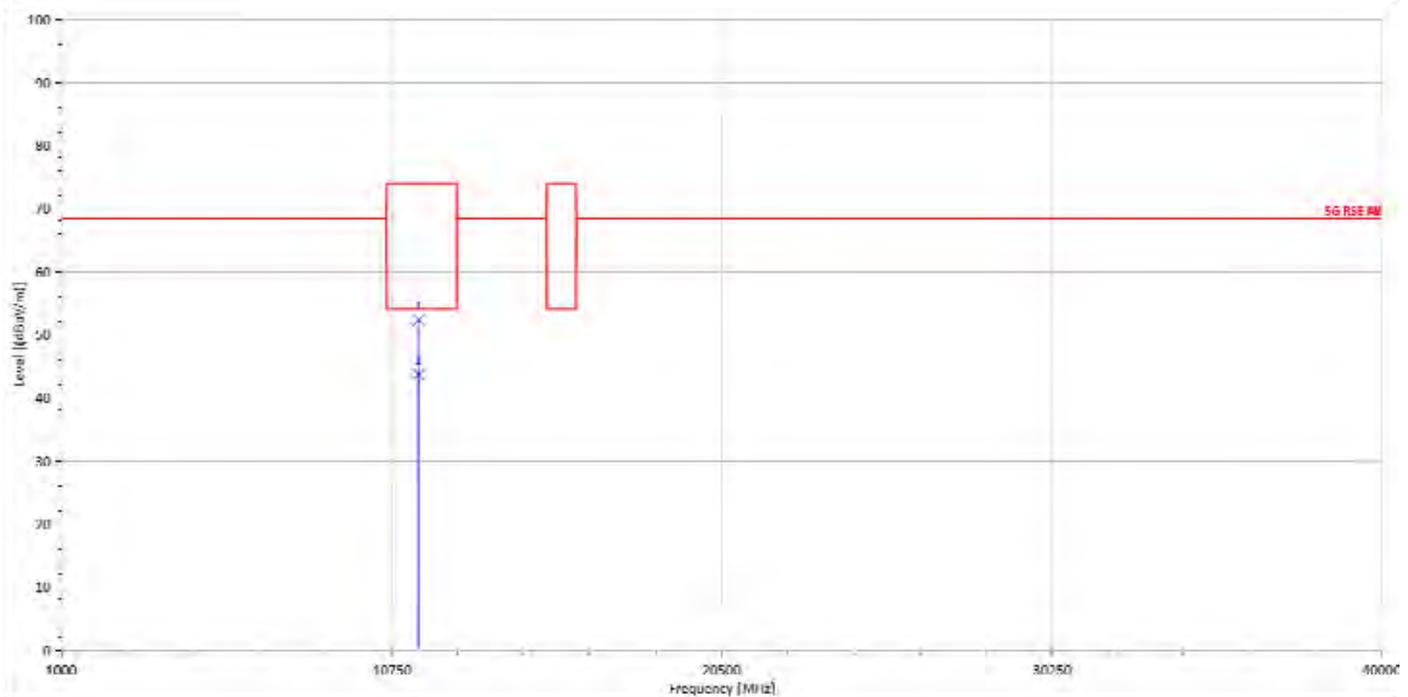
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Operation Mode :	802.11ac80	Test Date :	2017/1/23
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



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
11550.00	H	Peak	30.86	21.41	52.28	74	-21.72
11550.00	H	Average	22.28	21.41	43.69	54	-10.31

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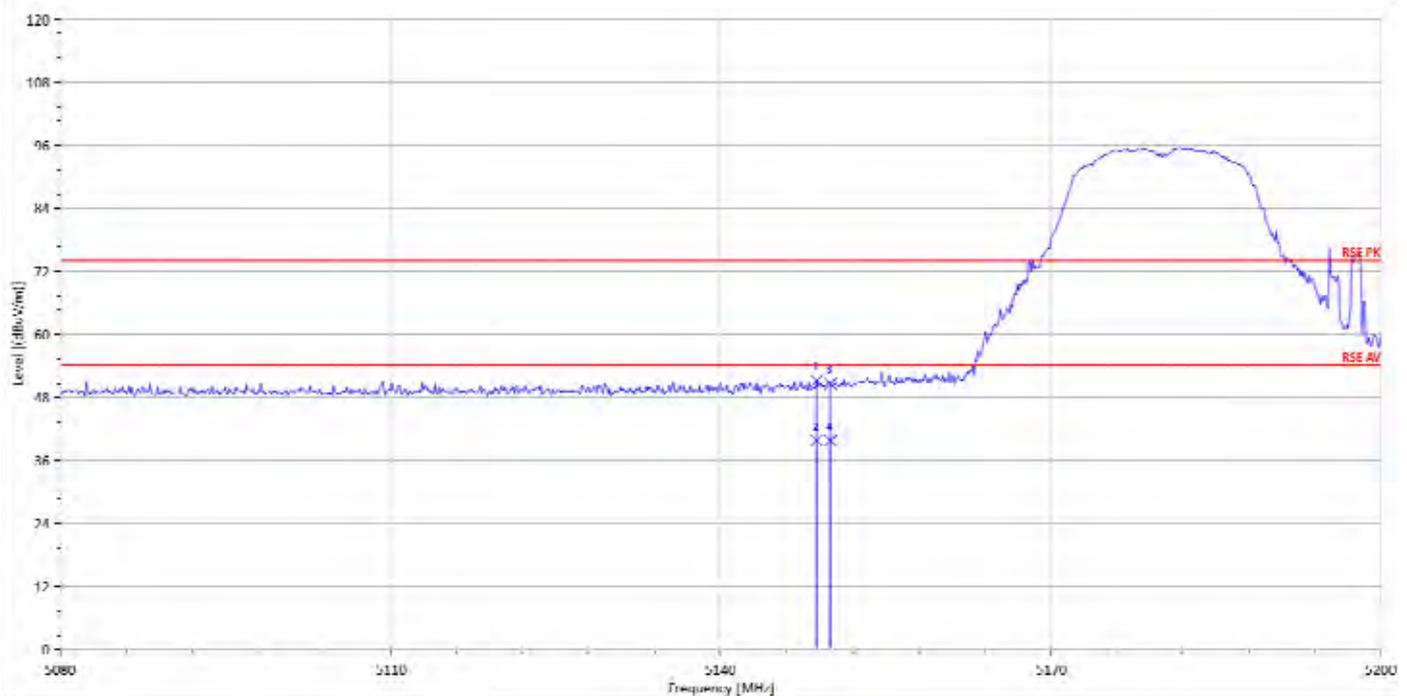
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Band edge falling to restricted band

802.11a mode

Operation Mode :	802.11a	Test Date :	2017/1/20
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	H	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
5148.76	S	Peak	42.87	8.18	51.05	74	-22.95
5148.76	S	Average	31.56	8.18	39.74	54	-14.26
5150.00	E	Peak	42.33	8.19	50.52	74	-23.48
5150.00	E	Average	31.54	8.19	39.73	54	-14.27

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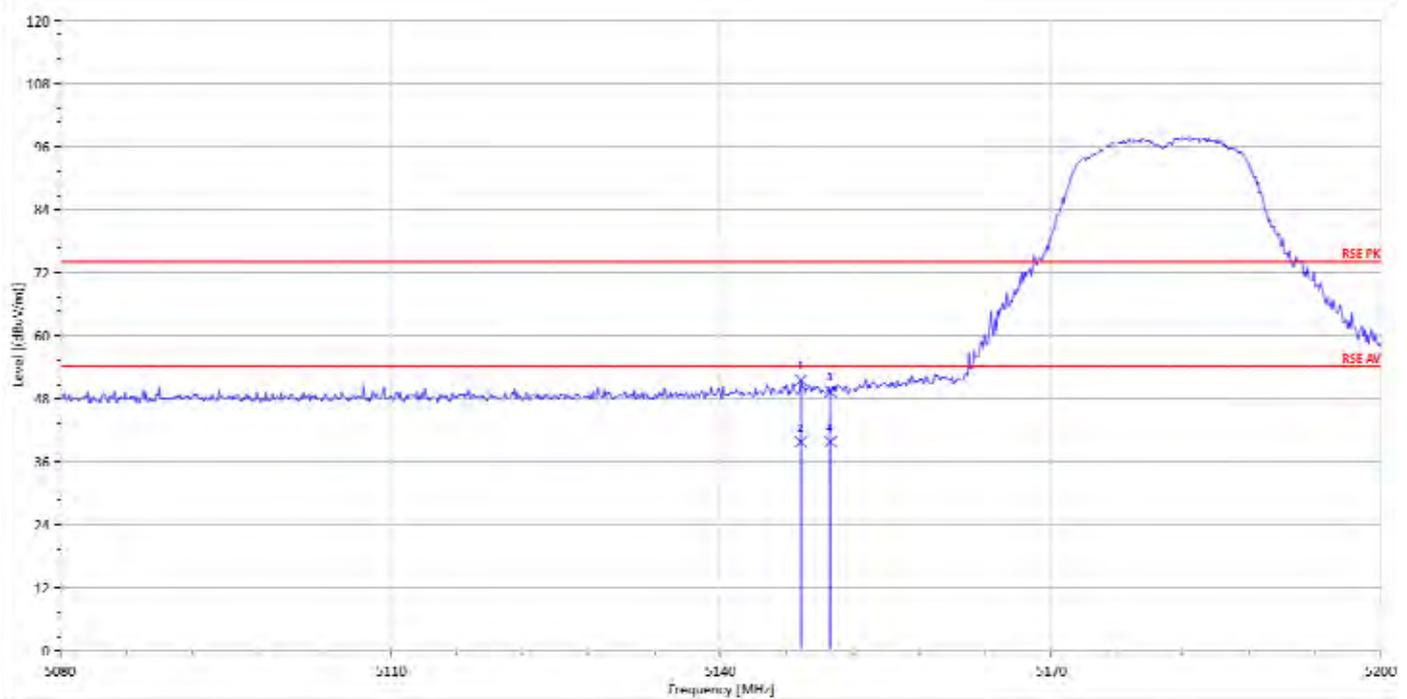
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Operation Mode : 802.11a Test Date : 2017/1/20
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5147.32	S	Peak	43.26	8.18	51.44	74	-22.56
5147.32	S	Average	31.52	8.18	39.70	54	-14.30
5150.00	E	Peak	41.13	8.19	49.32	74	-24.68
5150.00	E	Average	31.58	8.19	39.77	54	-14.23

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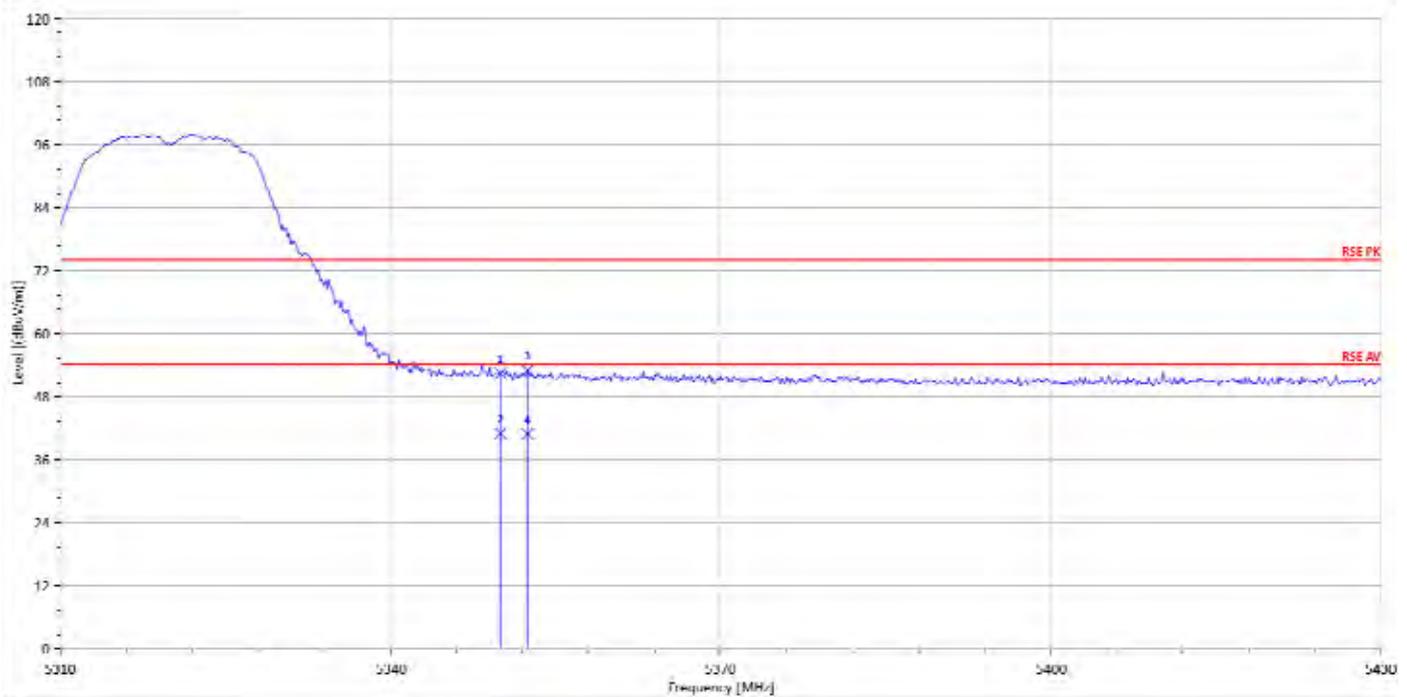
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Operation Mode : 802.11a Test Date : 2017/1/20
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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
5350.00	E	Peak	43.37	8.96	52.34	74	-21.66
5350.00	E	Average	32.00	8.96	40.96	54	-13.04
5352.48	S	Peak	43.92	8.99	52.92	74	-21.08
5352.48	S	Average	31.89	8.99	40.88	54	-13.12

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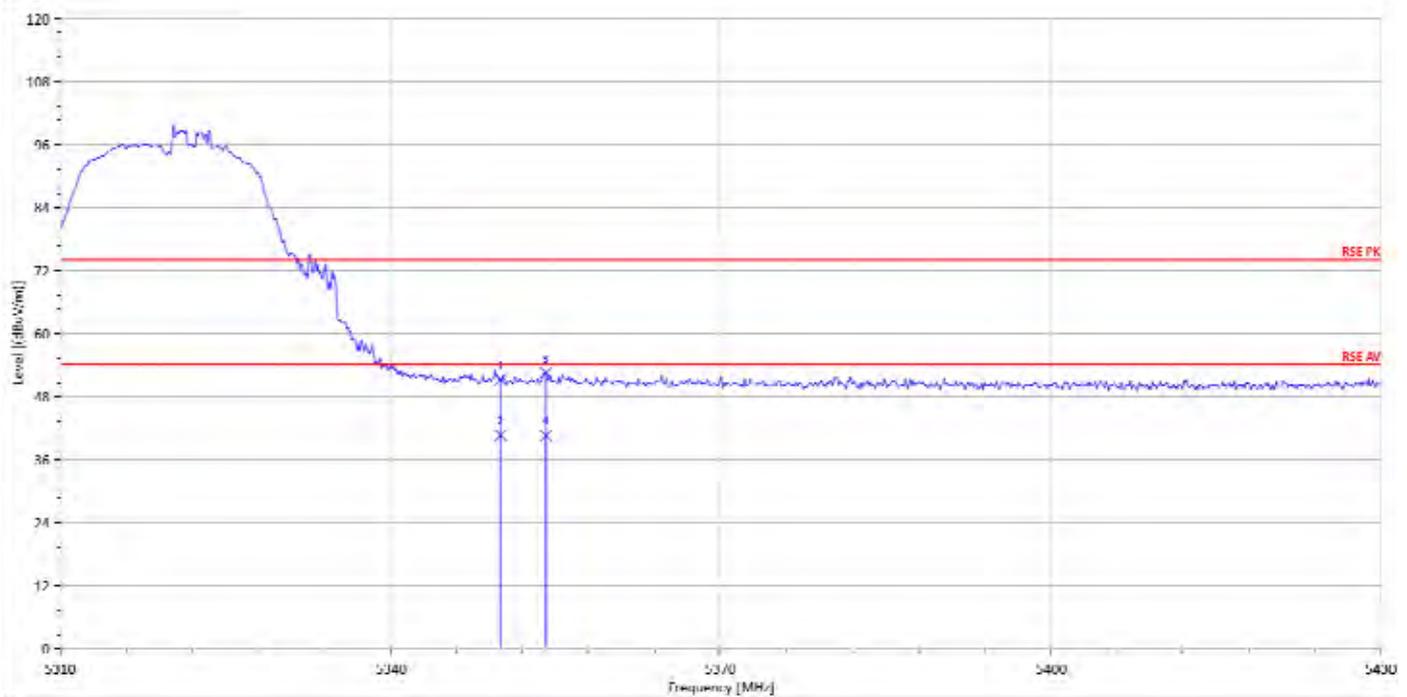
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Operation Mode : 802.11a Test Date : 2017/1/20
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	E	Peak	42.19	8.96	51.15	74	-22.85
5350.00	E	Average	31.66	8.96	40.62	54	-13.38
5354.16	S	Peak	43.47	8.97	52.45	74	-21.55
5354.16	S	Average	31.59	8.97	40.56	54	-13.44

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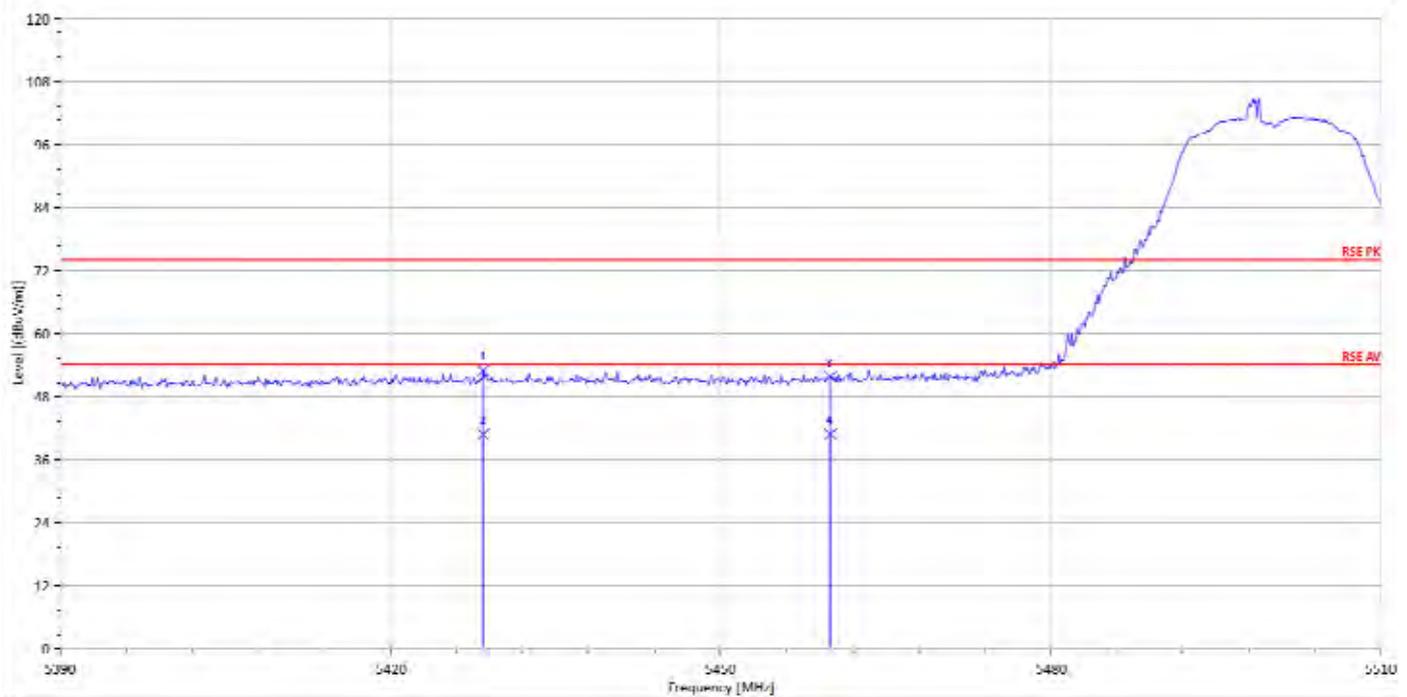
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Operation Mode : 802.11a Test Date : 2017/1/20
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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
5428.40	S	Peak	43.84	9.03	52.87	74	-21.13
5428.40	S	Average	31.73	9.03	40.76	54	-13.24
5460.00	E	Peak	42.81	8.88	51.70	74	-22.30
5460.00	E	Average	31.94	8.88	40.82	54	-13.18

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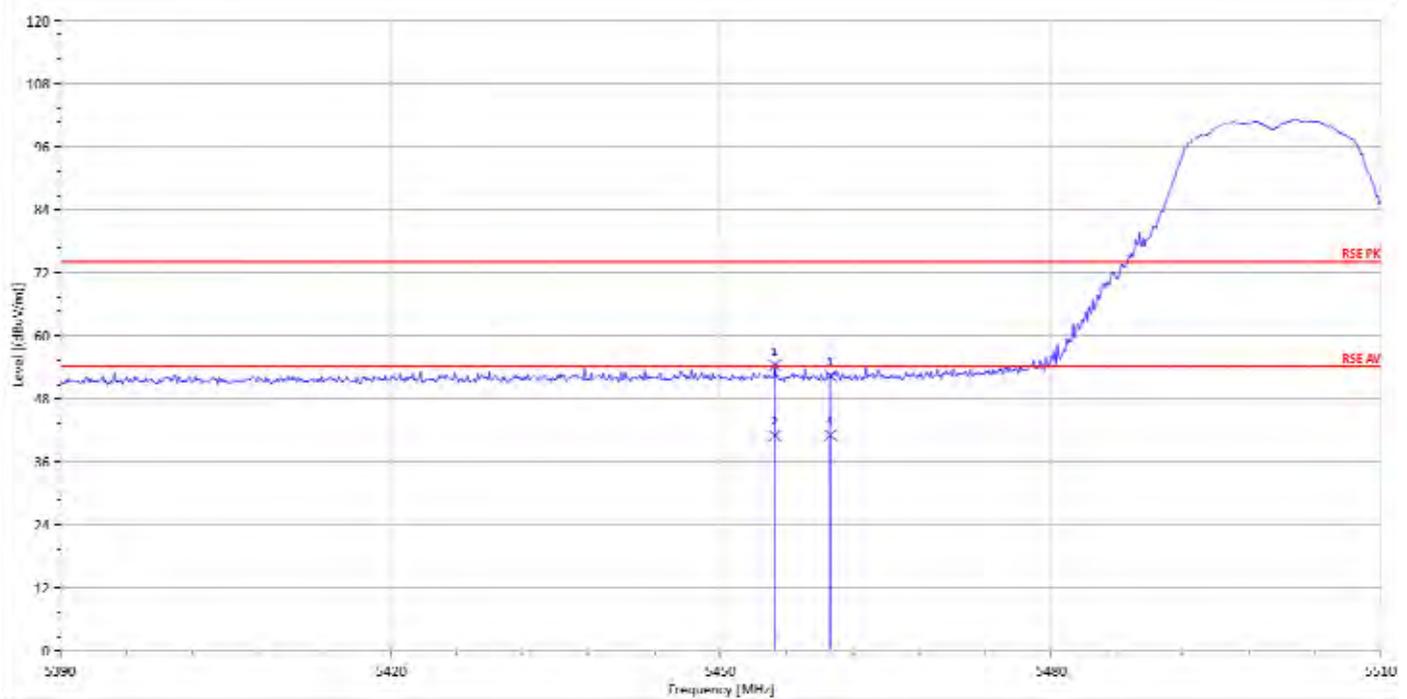
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Operation Mode : 802.11a Test Date : 2017/1/20
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5454.92	S	Peak	45.34	8.93	54.27	74	-19.73
5454.92	S	Average	32.02	8.93	40.95	54	-13.05
5460.00	E	Peak	43.39	8.88	52.27	74	-21.73
5460.00	E	Average	32.16	8.88	41.04	54	-12.96

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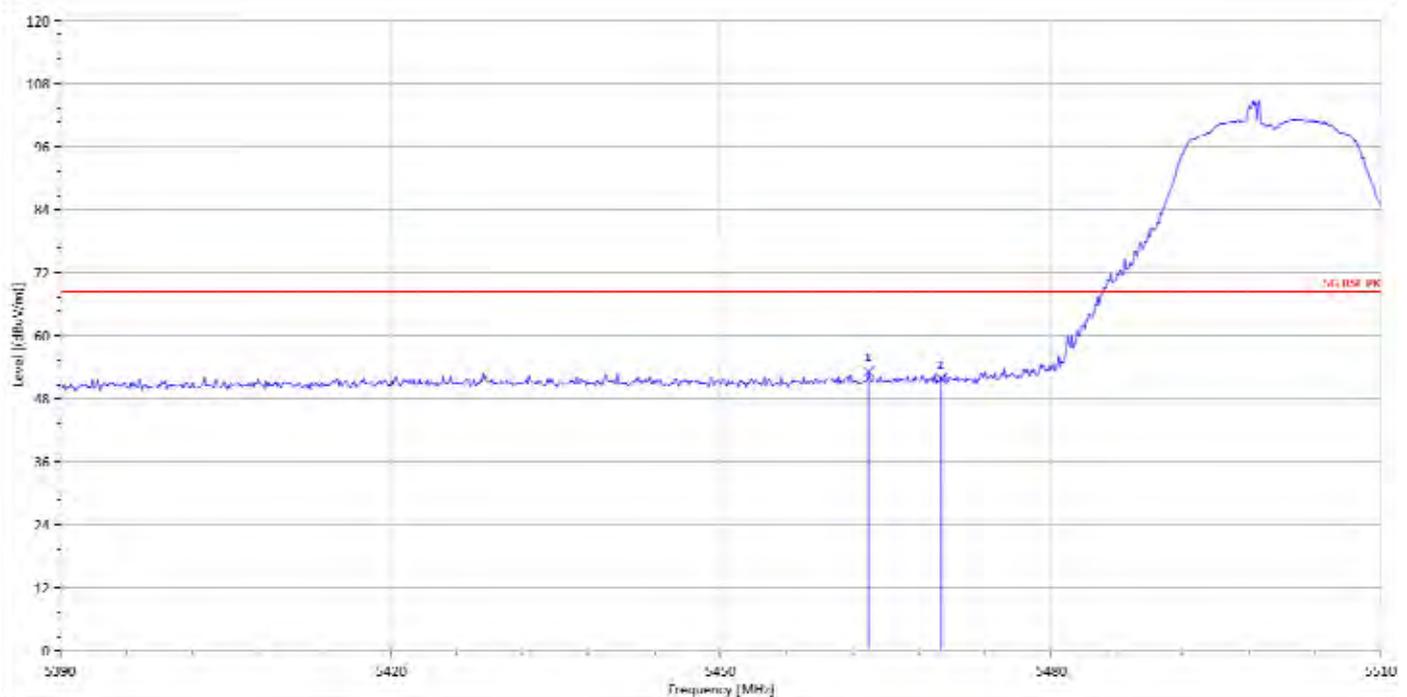
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Operation Mode :	802.11a	Test Date :	2017/1/20
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



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
5463.44	S	Peak	44.22	8.85	53.07	68.3	-15.23
5470.00	E	Peak	42.93	8.79	51.72	68.3	-16.58

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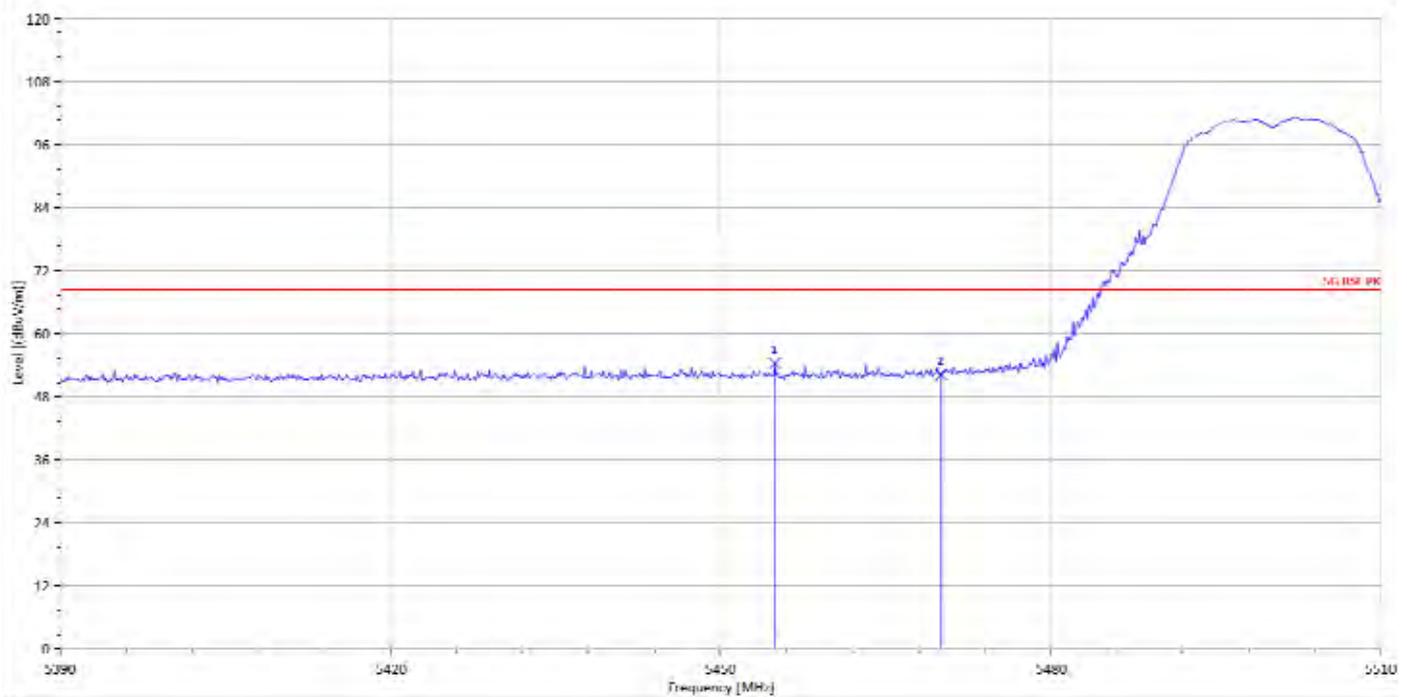
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Operation Mode :	802.11a	Test Date :	2017/1/20
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



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
5454.92	S	Peak	45.34	8.93	54.27	68.3	-14.03
5470.00	E	Peak	43.26	8.79	52.05	68.3	-16.25

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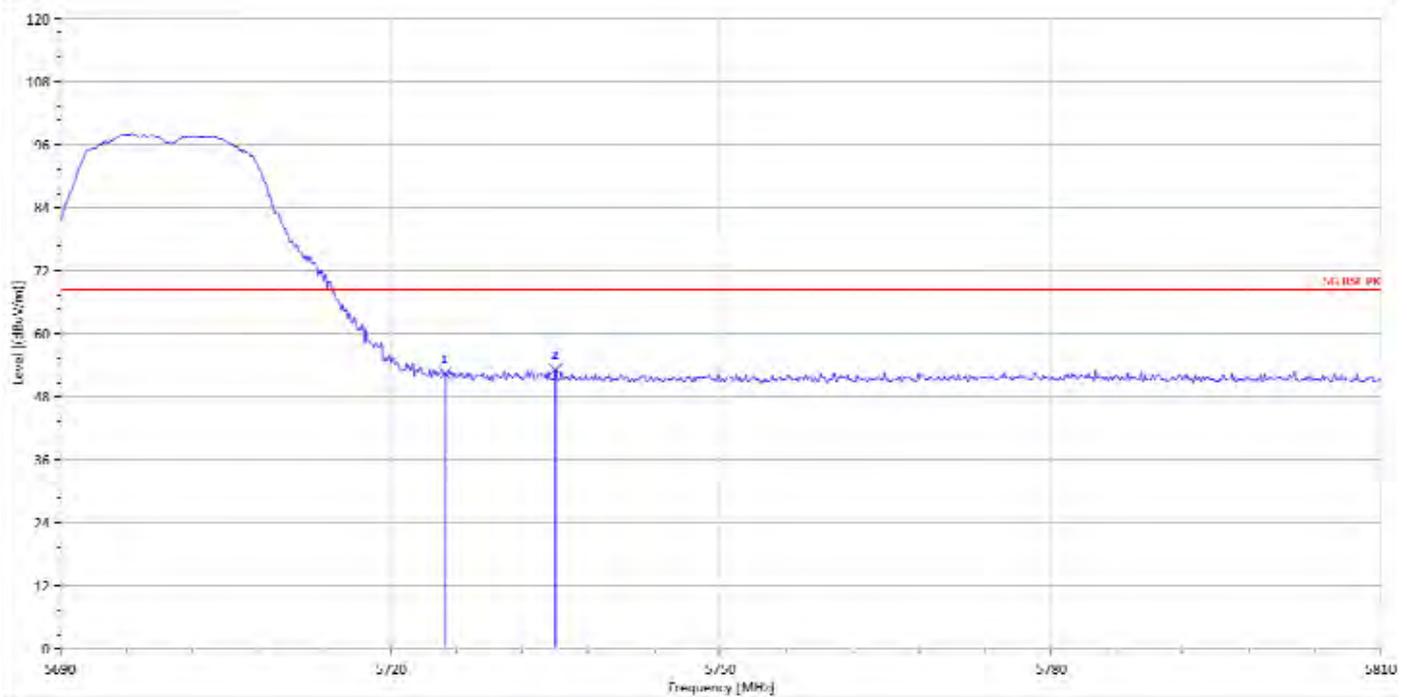
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Operation Mode : 802.11a Test Date : 2017/1/20
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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	43.02	9.30	52.32	68.3	-15.98
5735.00	S	Peak	43.79	9.28	53.07	68.3	-15.23

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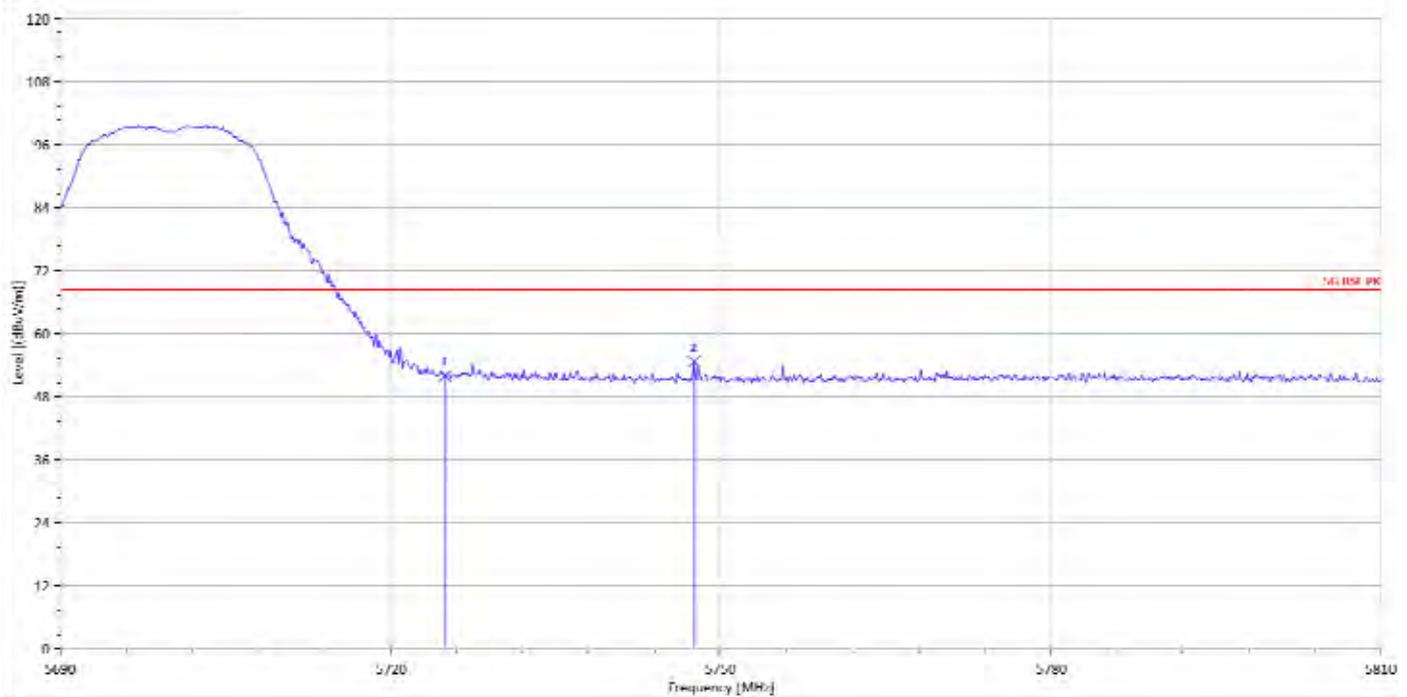
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Operation Mode :	802.11a	Test Date :	2017/1/20
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



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	42.54	9.30	51.84	68.3	-16.46
5747.60	S	Peak	45.37	9.27	54.64	68.3	-13.66

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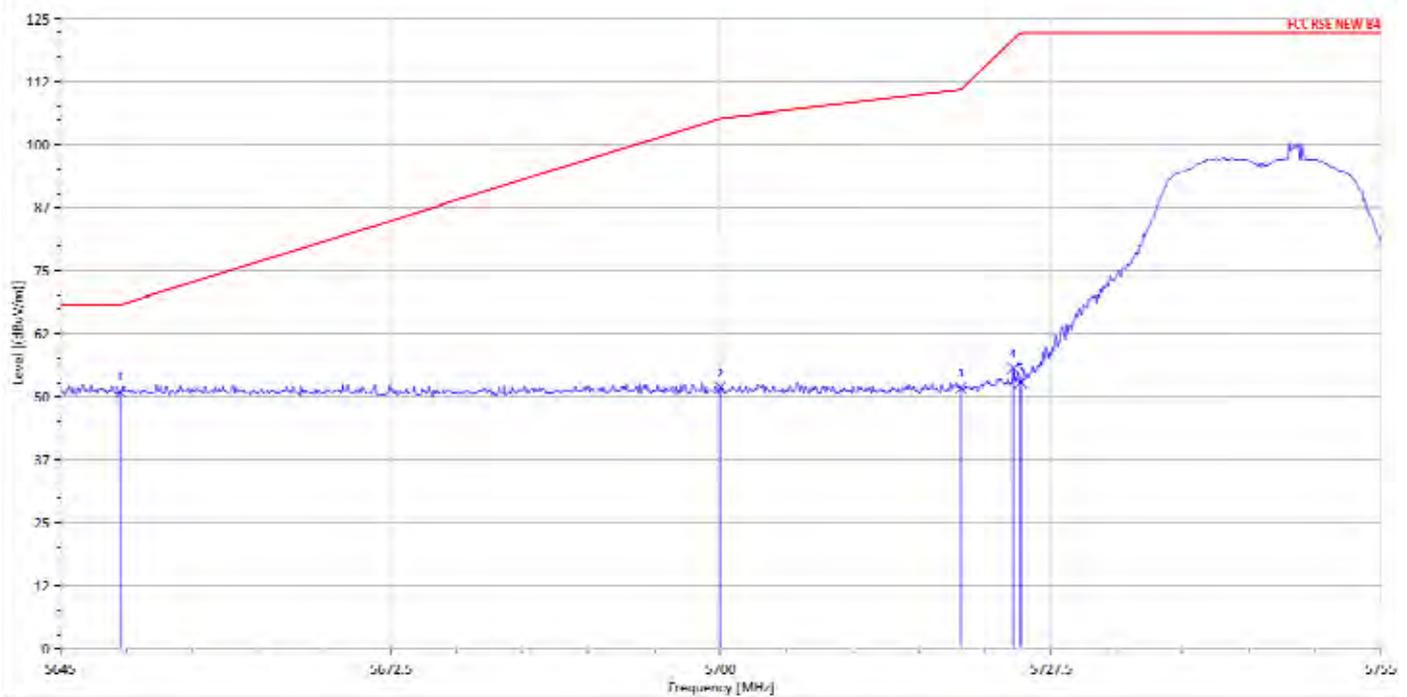
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Operation Mode : 802.11a Test Date : 2017/1/20
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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	41.61	9.33	50.94	68.23	-17.29
5700.00	S	Peak	42.34	9.44	51.77	105.23	-53.46
5720.00	S	Peak	42.43	9.28	51.71	110.83	-59.12
5724.42	S	Peak	46.29	9.30	55.58	120.9074	-65.32
5725.00	E	Peak	43.44	9.30	52.74	122.23	-69.49

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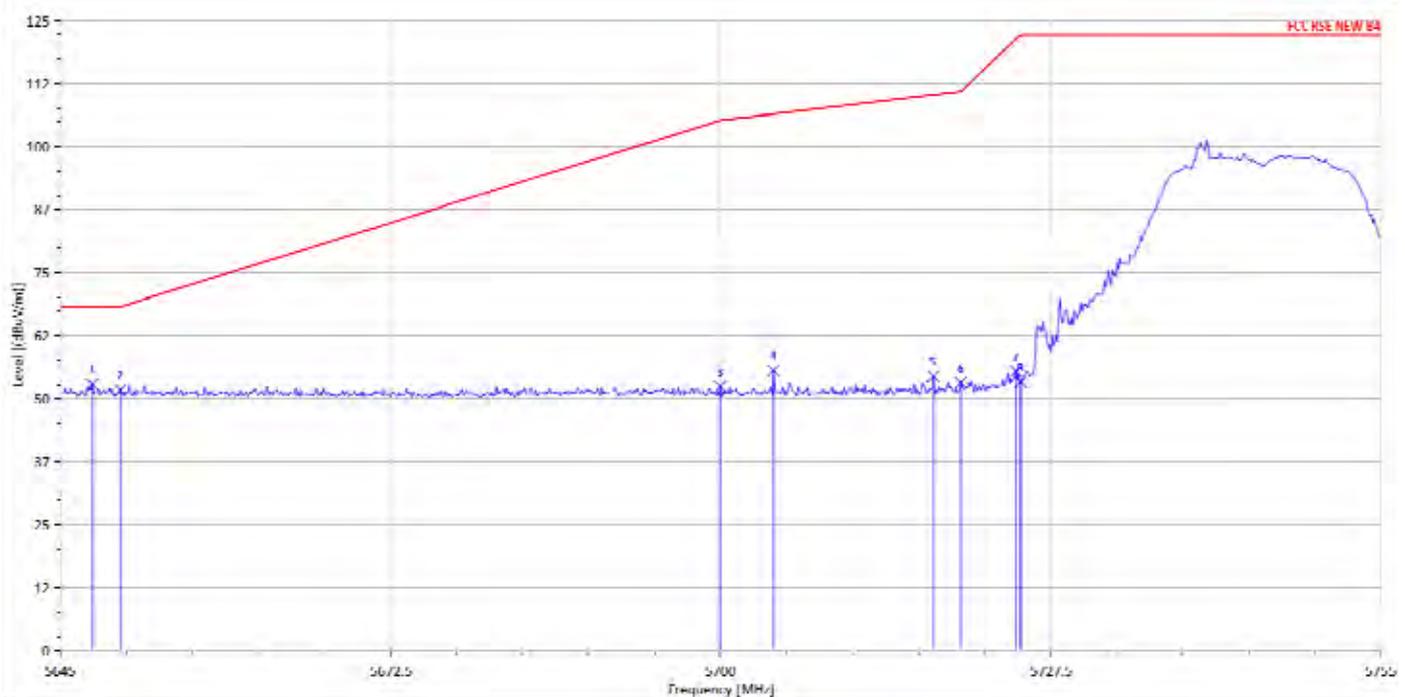
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 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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
5647.64	S	Peak	43.41	9.36	52.77	68.23	-15.46
5650.00	S	Peak	42.30	9.33	51.63	68.23	-16.60
5700.00	S	Peak	42.90	9.44	52.34	105.23	-52.89
5704.40	S	Peak	46.17	9.34	55.51	106.462	-50.96
5717.71	S	Peak	45.10	9.27	54.37	110.1888	-55.82
5720.00	S	Peak	43.80	9.28	53.08	110.83	-57.75
5724.64	S	Peak	46.10	9.30	55.40	121.4095	-66.01
5725.00	E	Peak	43.91	9.30	53.21	122.23	-69.02

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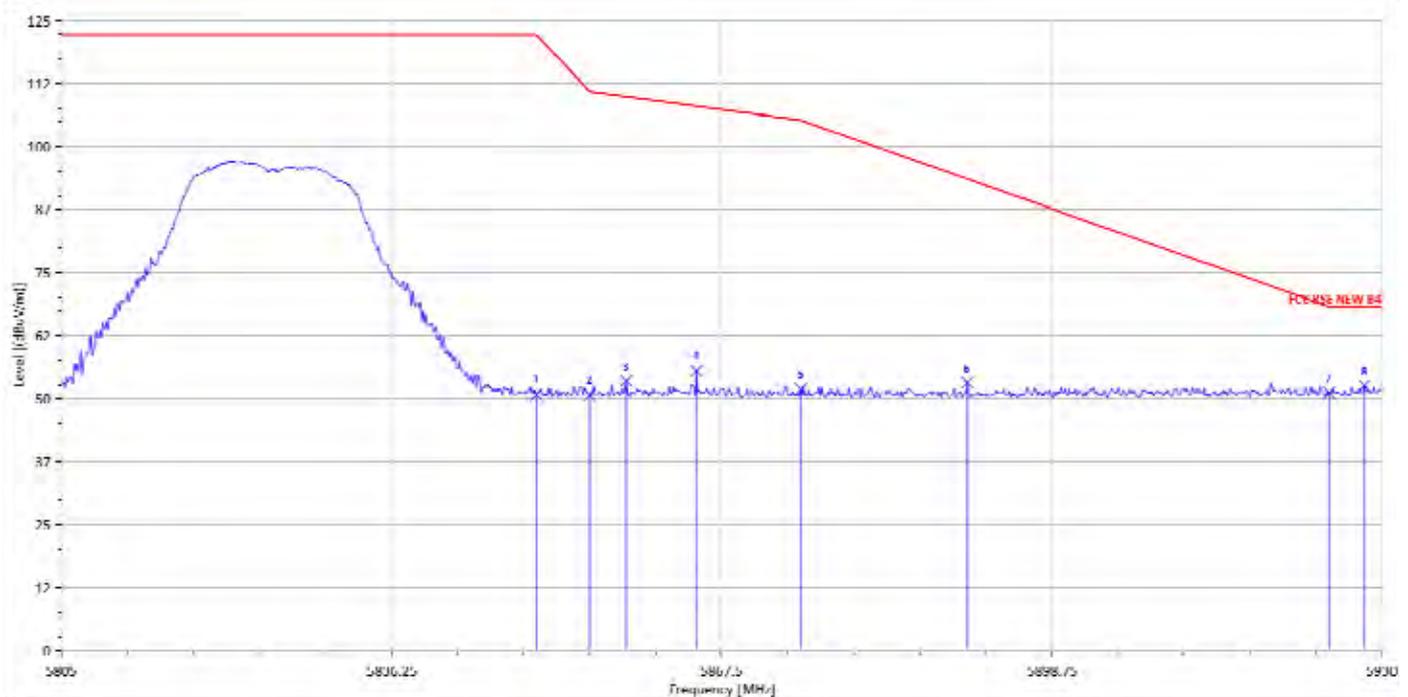
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Operation Mode : 802.11a Test Date : 2017/1/20
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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	41.35	9.49	50.84	122.23	-71.39
5855.00	S	Peak	41.21	9.58	50.79	110.83	-60.04
5858.50	S	Peak	43.77	9.65	53.42	109.85	-56.43
5865.13	S	Peak	45.73	9.69	55.42	107.995	-52.57
5875.00	S	Peak	42.21	9.63	51.84	105.23	-53.39
5890.75	S	Peak	43.43	9.66	53.09	93.575	-40.48
5925.00	S	Peak	41.15	10.01	51.16	68.23	-17.07
5928.38	S	Peak	42.44	10.05	52.50	68.23	-15.73

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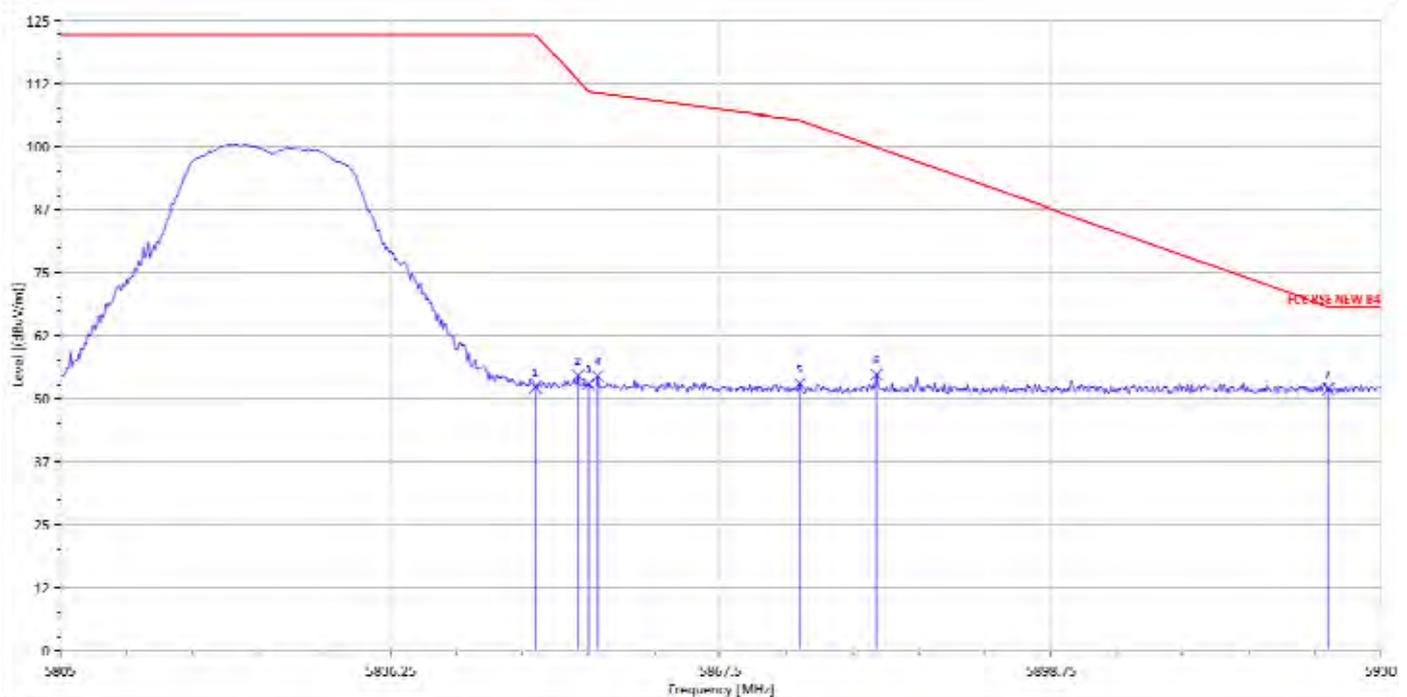
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Operation Mode : 802.11a Test Date : 2017/1/20
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	42.75	9.49	52.23	122.23	-70.00
5854.00	S	Peak	44.94	9.56	54.50	113.11	-58.61
5855.00	S	Peak	43.29	9.58	52.87	110.83	-57.96
5855.88	S	Peak	44.83	9.60	54.43	110.585	-56.16
5875.00	S	Peak	43.29	9.63	52.92	105.23	-52.31
5882.25	S	Peak	45.03	9.62	54.66	99.86501	-45.21
5925.00	S	Peak	41.90	10.01	51.91	68.23	-16.32

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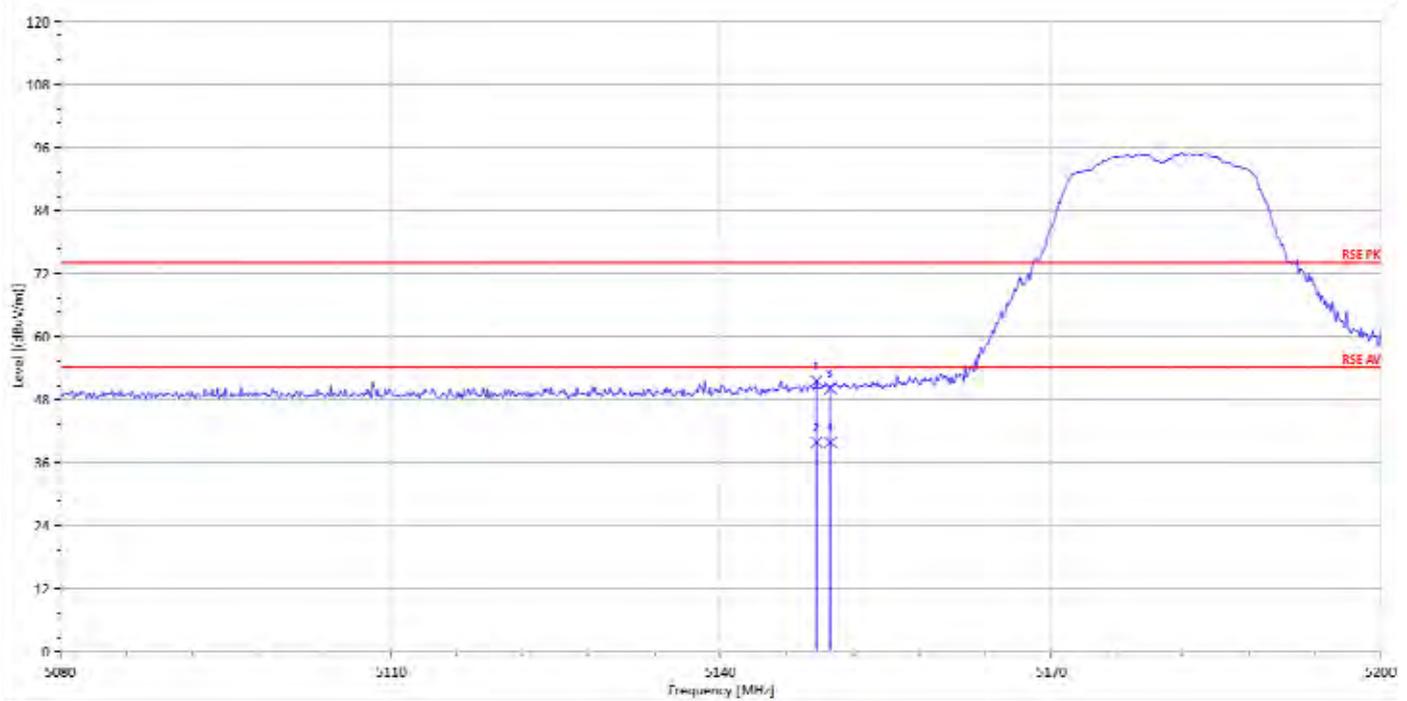
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802.11n HT20 mode

Operation Mode :	802.11n20	Test Date :	2017/1/20
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	H	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
5148.76	S	Peak	43.27	8.18	51.45	74	-22.55
5148.76	S	Average	31.64	8.18	39.82	54	-14.18
5150.00	E	Peak	41.93	8.19	50.12	74	-23.88
5150.00	E	Average	31.63	8.19	39.82	54	-14.18

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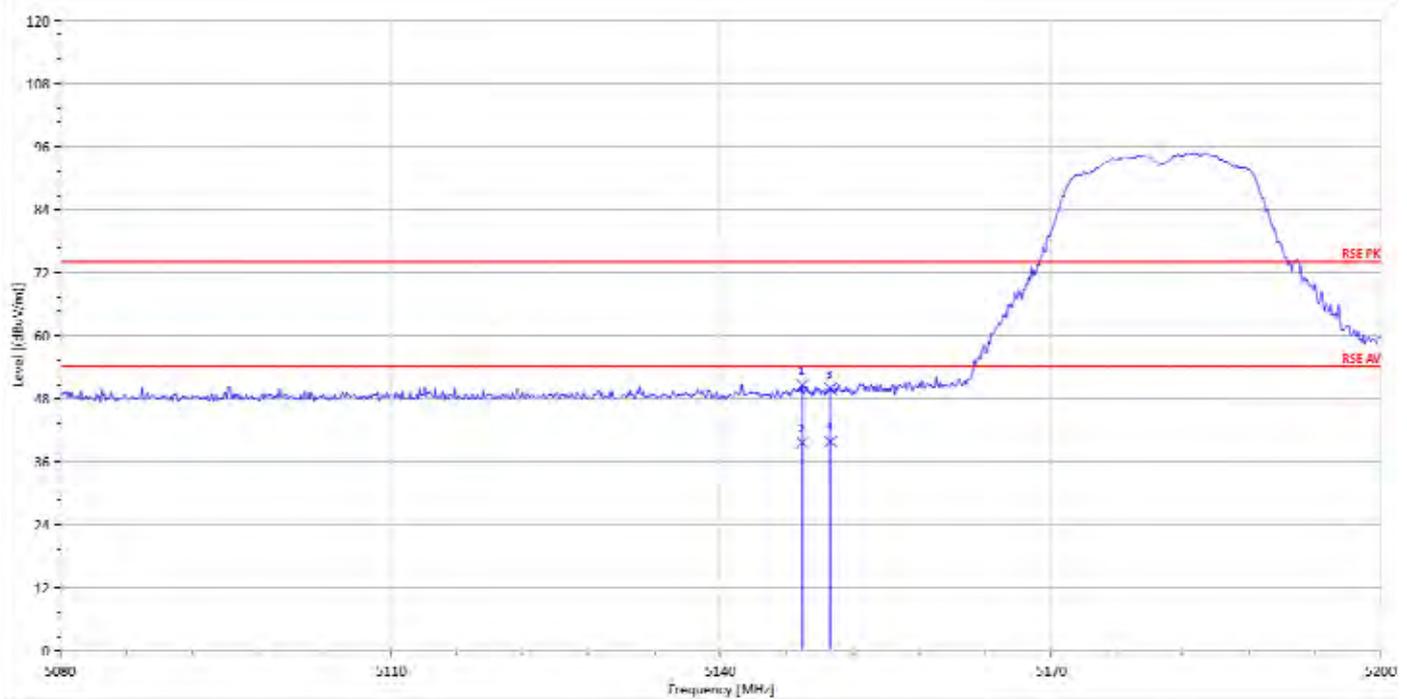
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Operation Mode : 802.11n20 Test Date : 2017/1/20
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5147.44	S	Peak	42.29	8.18	50.47	74	-23.53
5147.44	S	Average	31.42	8.18	39.60	54	-14.40
5150.00	E	Peak	41.67	8.19	49.86	74	-24.14
5150.00	E	Average	31.60	8.19	39.79	54	-14.21

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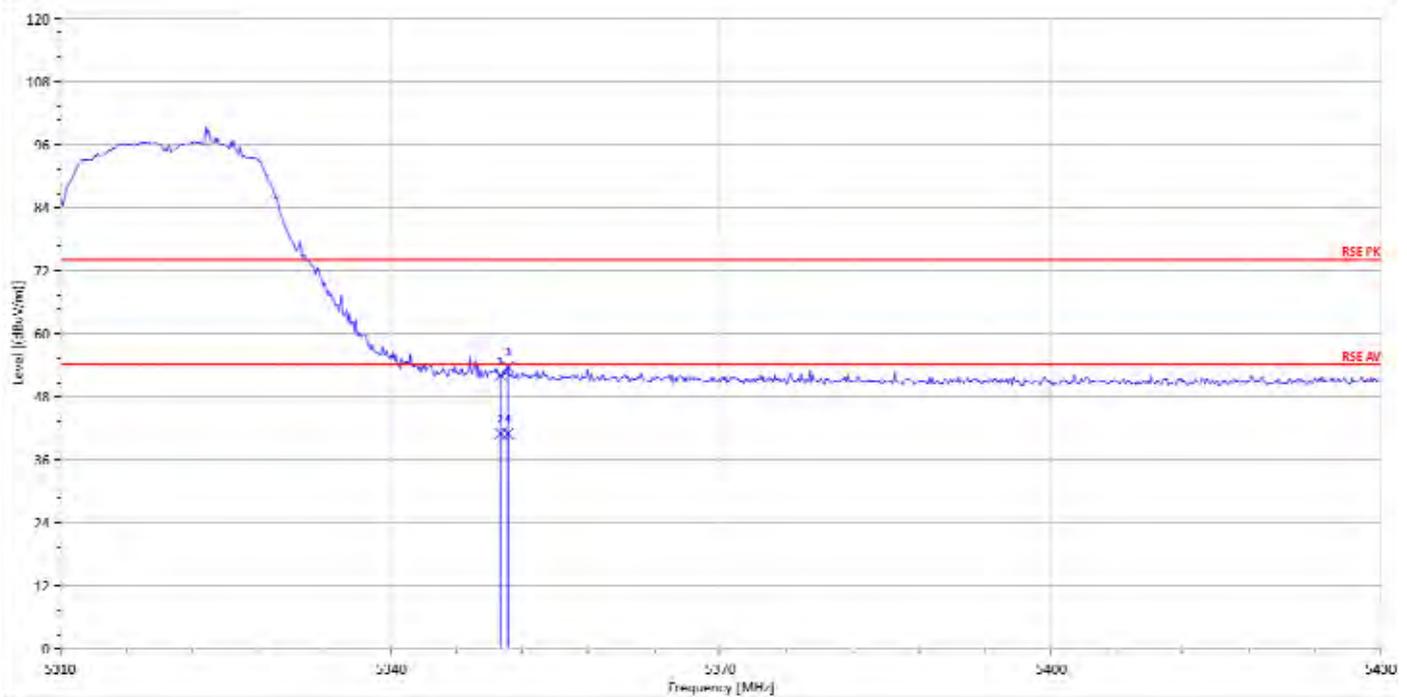
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Operation Mode : 802.11n20 Test Date : 2017/1/20
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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
5350.00	E	Peak	43.01	8.96	51.98	74	-22.02
5350.00	E	Average	31.98	8.96	40.94	54	-13.06
5350.68	S	Peak	44.60	8.98	53.58	74	-20.42
5350.68	S	Average	31.96	8.98	40.94	54	-13.06

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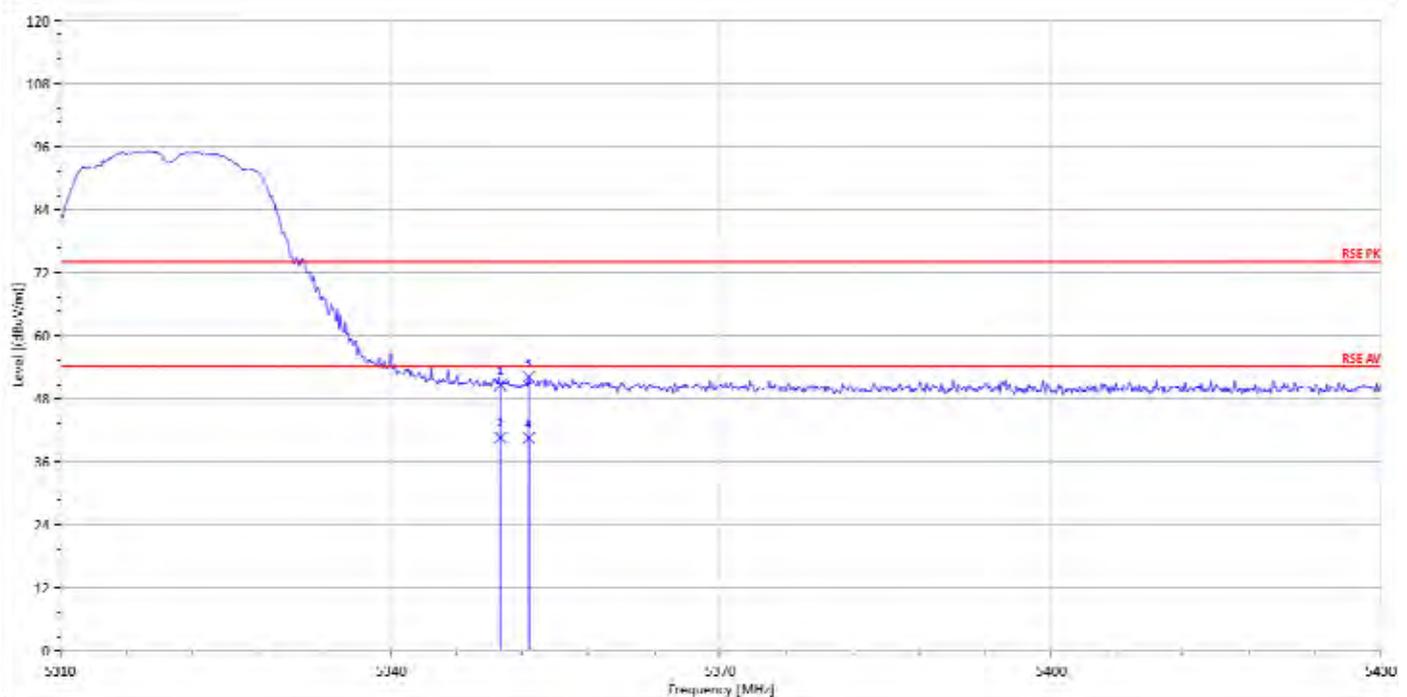
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Operation Mode : 802.11n20 Test Date : 2017/1/20
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Peak	41.58	8.96	50.55	74	-23.45
5350.00	E	Average	31.58	8.96	40.54	54	-13.46
5352.60	S	Peak	43.05	8.99	52.04	74	-21.96
5352.60	S	Average	31.52	8.99	40.51	54	-13.49

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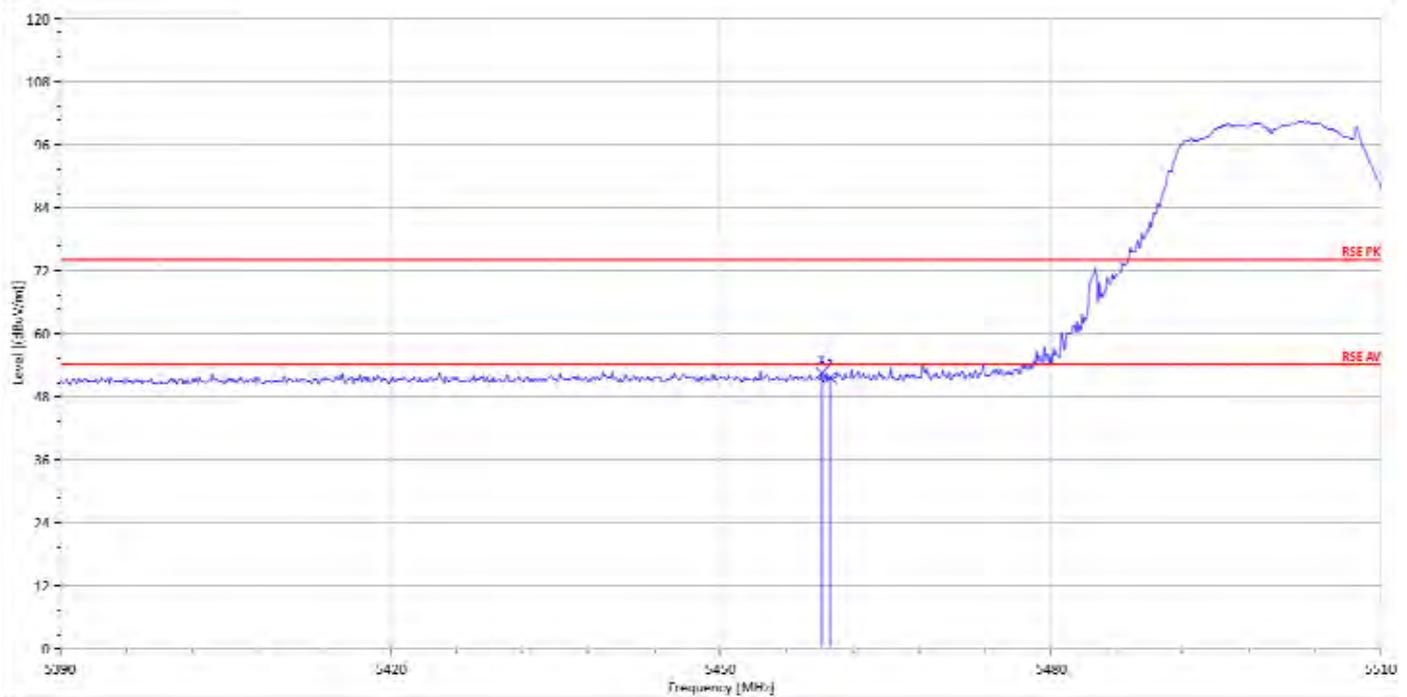
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Operation Mode : 802.11n20 Test Date : 2017/1/20
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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
5459.24	S	Peak	43.52	8.89	52.41	74	-21.59
5460.00	E	Peak	42.65	8.88	51.53	74	-22.47

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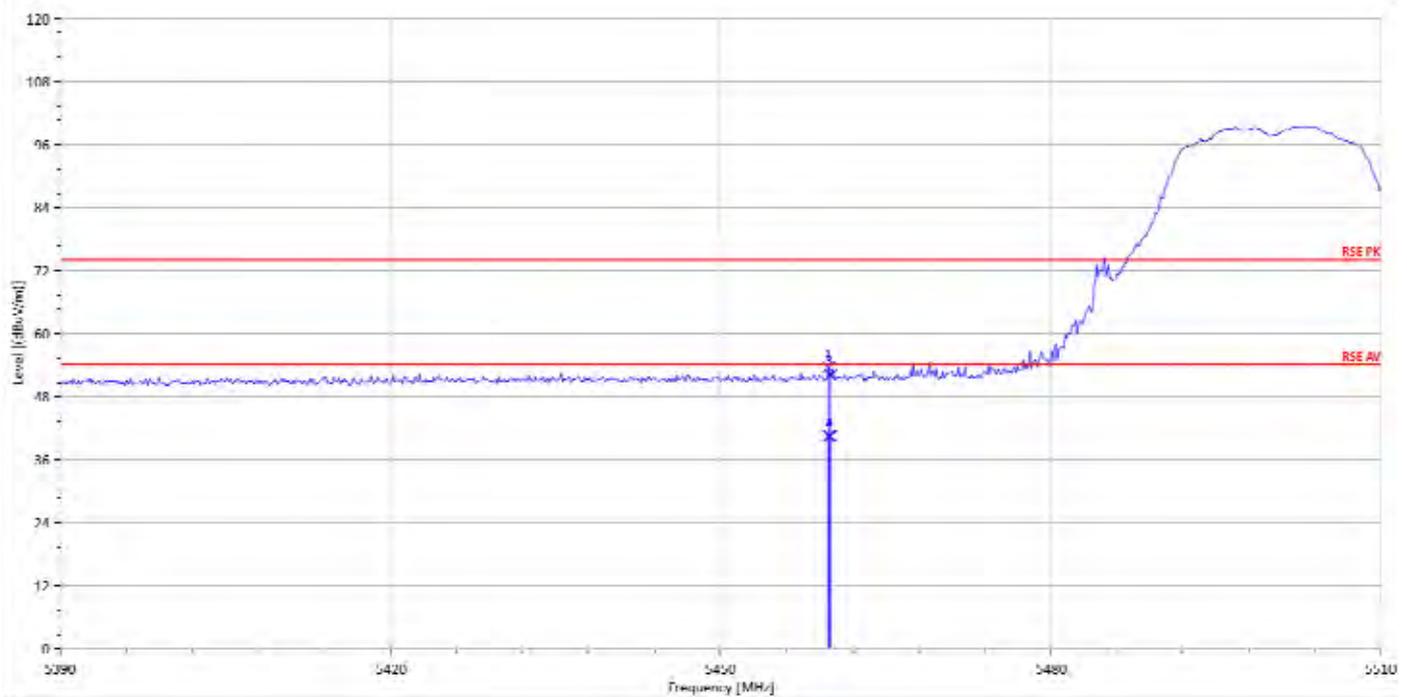
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Operation Mode : 802.11n20 Test Date : 2017/1/20
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5459.84	S	Peak	44.62	8.88	53.50	74	-20.50
5459.84	S	Average	31.59	8.88	40.47	54	-13.53
5460.00	E	Peak	43.19	8.88	52.08	74	-21.92
5460.00	E	Average	31.57	8.88	40.45	54	-13.55

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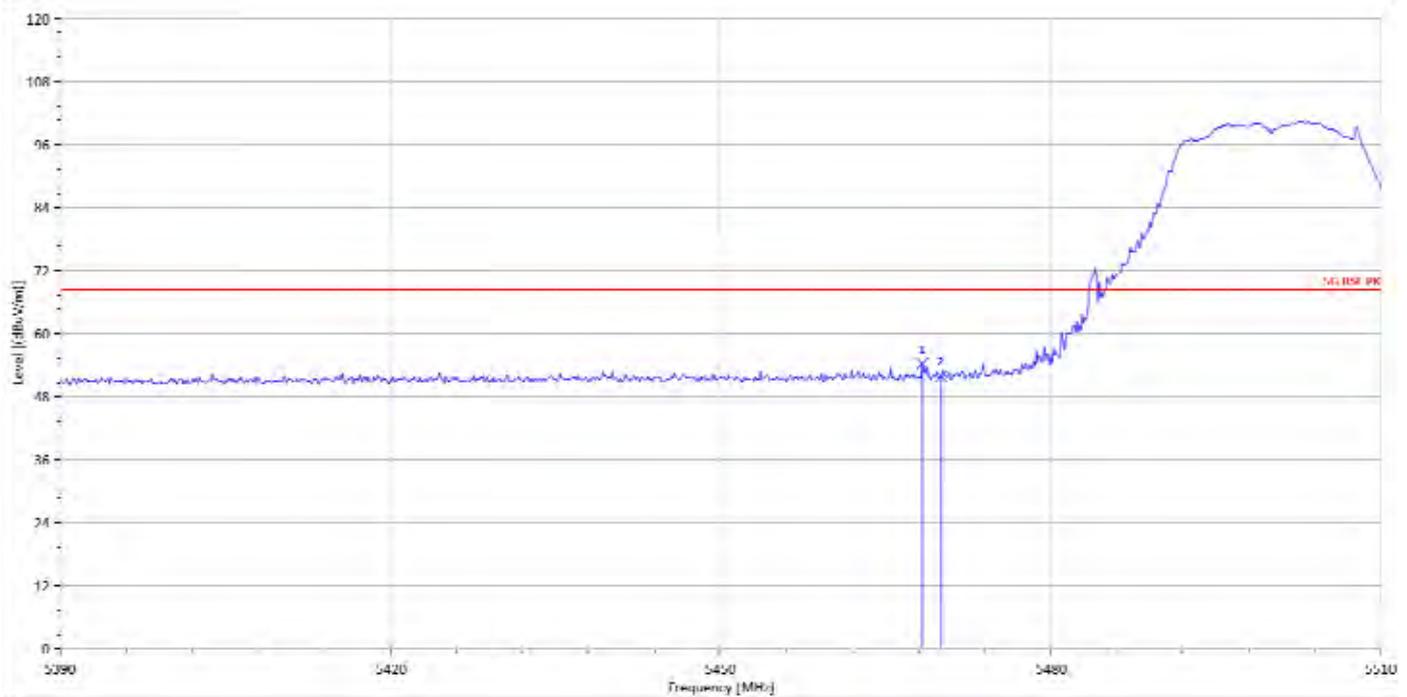
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Operation Mode :	802.11n20	Test Date :	2017/1/20
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



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
5468.36	S	Peak	45.42	8.80	54.22	68.3	-14.08
5470.00	E	Peak	42.96	8.79	51.75	68.3	-16.55

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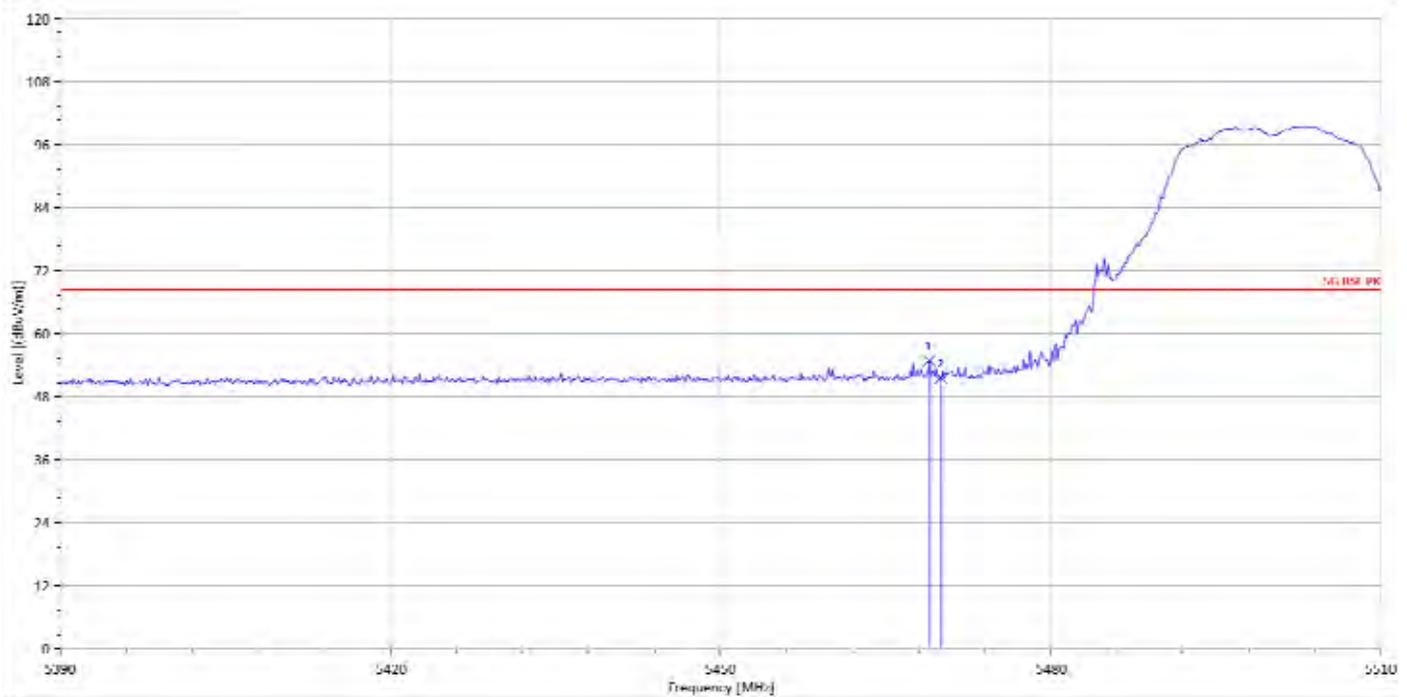
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Operation Mode :	802.11n20	Test Date :	2017/1/20
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



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
5468.96	S	Peak	46.01	8.80	54.80	68.3	-13.50
5470.00	E	Peak	42.71	8.79	51.50	68.3	-16.80

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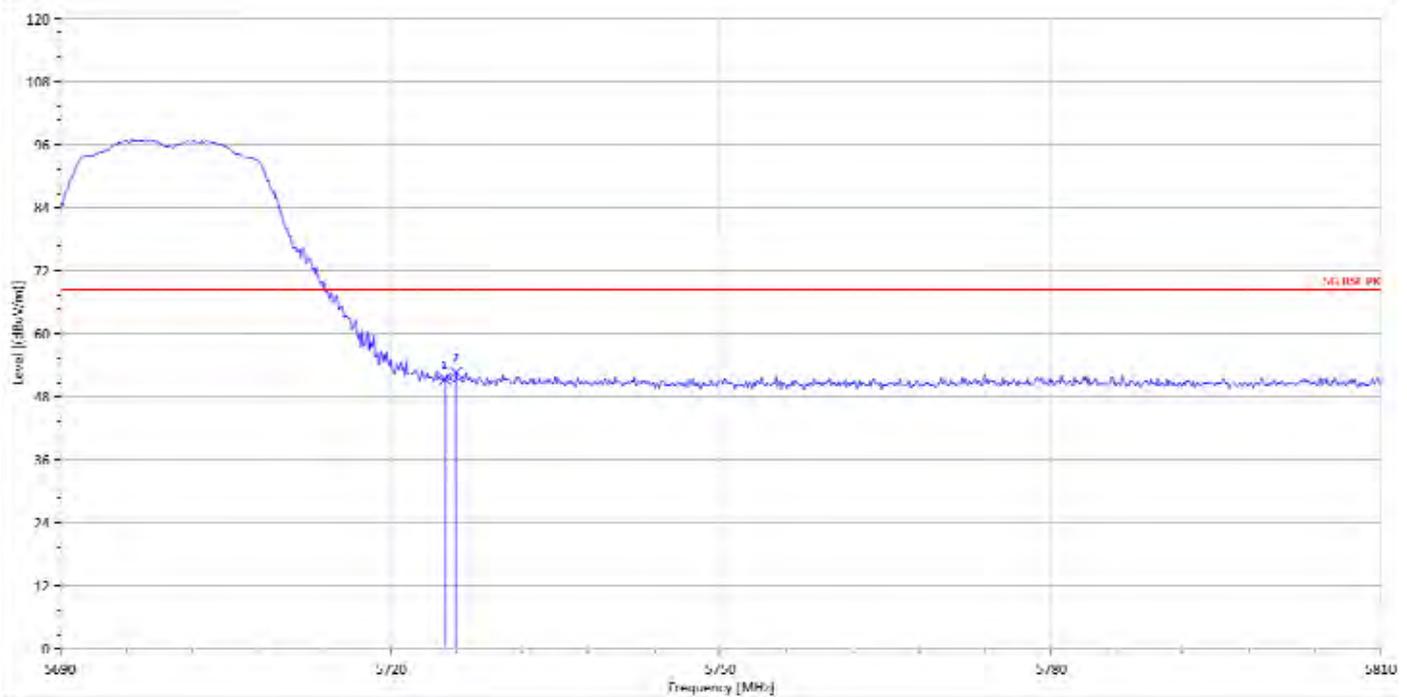
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Operation Mode : 802.11n20 Test Date : 2017/1/20
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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	41.94	9.30	51.24	68.3	-17.06
5726.00	S	Peak	43.22	9.30	52.52	68.3	-15.78

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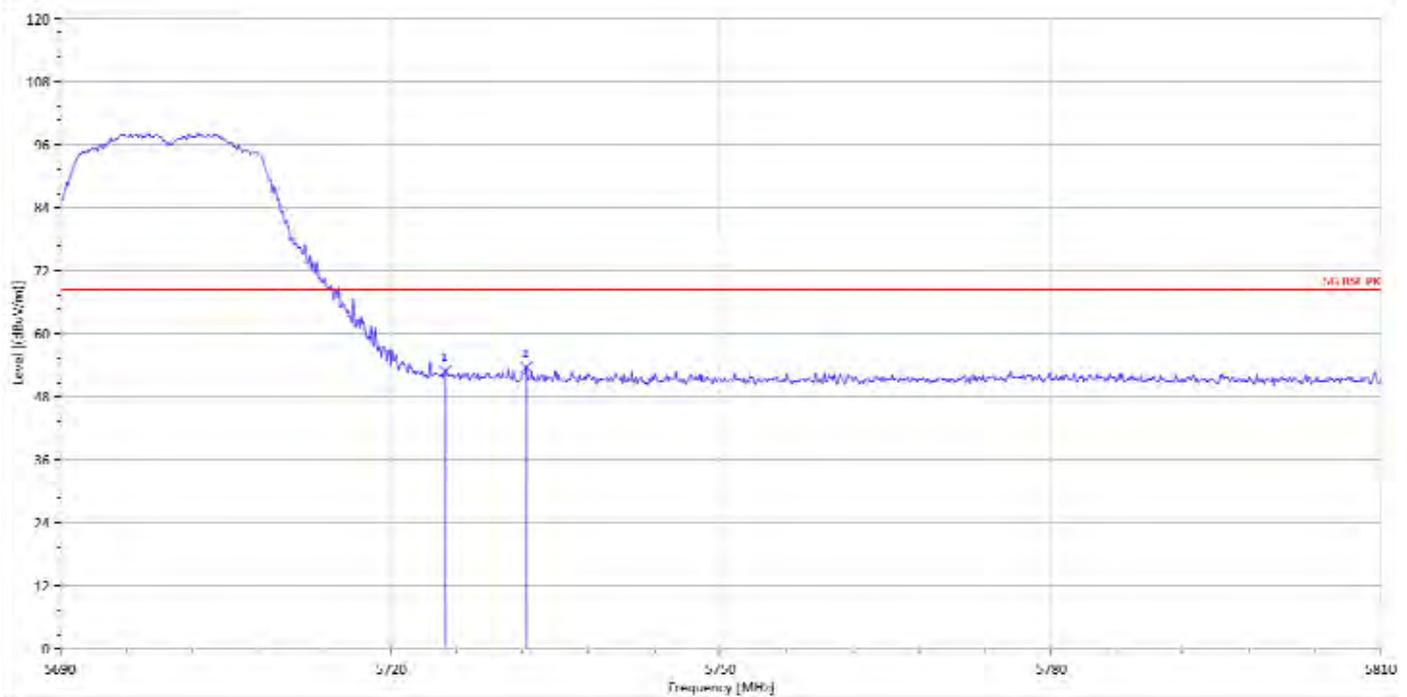
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 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	43.46	9.30	52.76	68.3	-15.54
5732.36	S	Peak	44.25	9.29	53.53	68.3	-14.77

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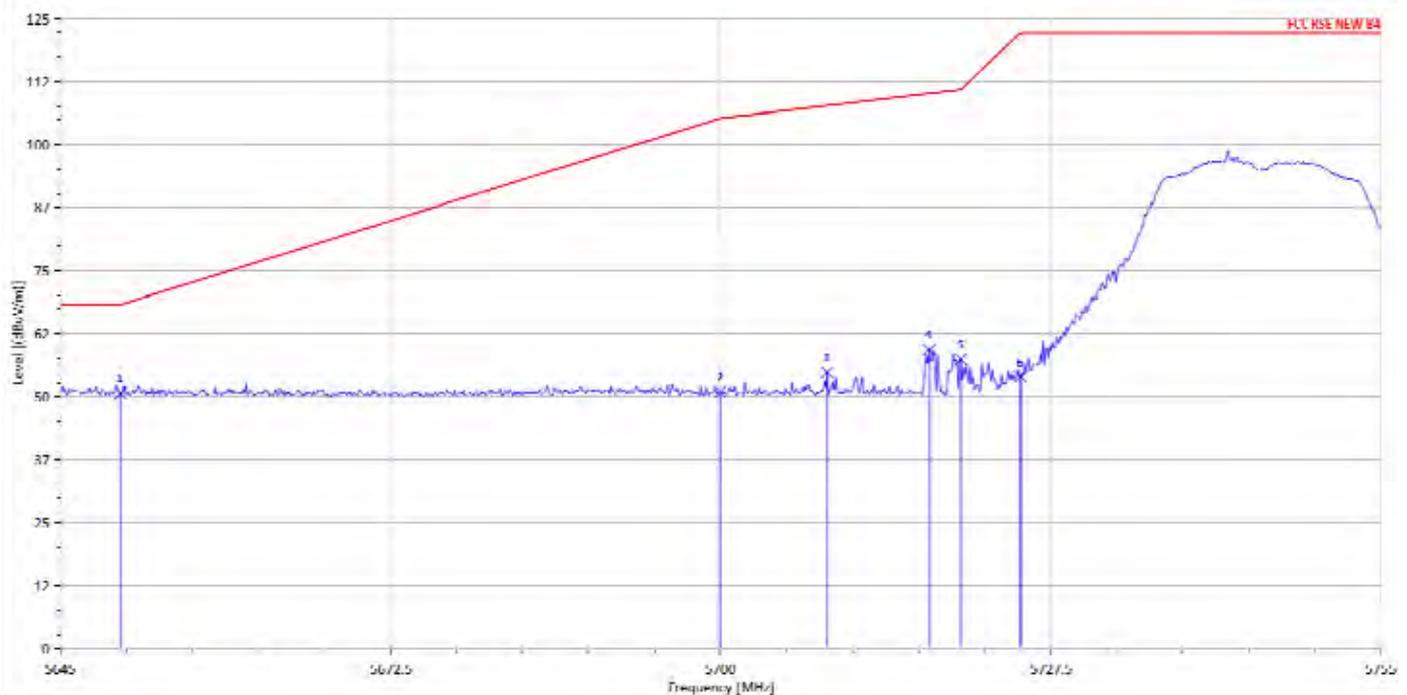
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Operation Mode : 802.11n20 Test Date : 2017/1/20
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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	41.38	9.33	50.71	68.23	-17.52
5700.00	S	Peak	41.51	9.44	50.95	105.23	-54.28
5708.91	S	Peak	45.48	9.24	54.71	107.7248	-53.01
5717.38	S	Peak	50.01	9.27	59.28	110.0964	-50.81
5720.00	S	Peak	48.11	9.28	57.39	110.83	-53.44
5725.00	E	Peak	44.51	9.30	53.81	122.23	-68.42

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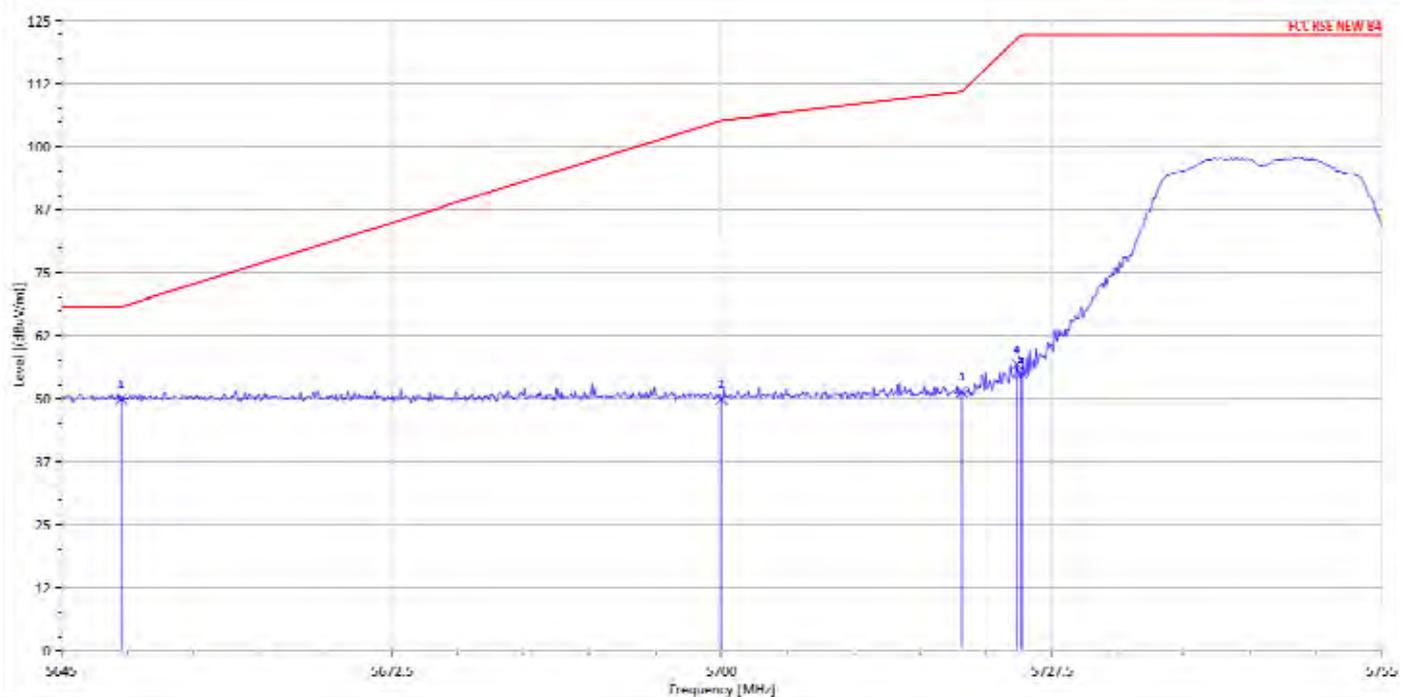
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 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	40.71	9.33	50.04	68.23	-18.19
5700.00	S	Peak	40.51	9.44	49.95	105.23	-55.28
5720.00	S	Peak	42.09	9.28	51.37	110.83	-59.46
5724.64	S	Peak	47.49	9.30	56.79	121.4095	-64.62
5725.00	E	Peak	45.61	9.30	54.91	122.23	-67.32

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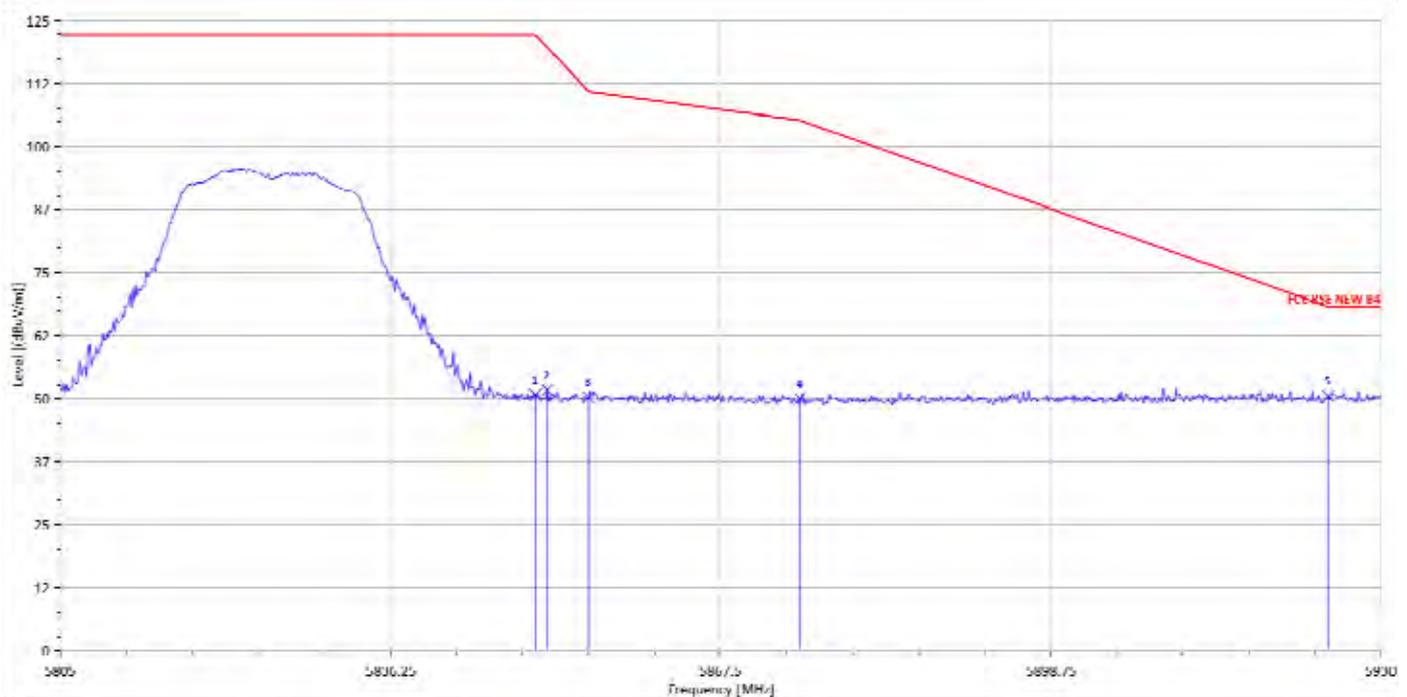
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Operation Mode : 802.11n20 Test Date : 2017/1/20
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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	41.27	9.49	50.75	122.23	-71.48
5851.13	S	Peak	42.15	9.51	51.66	119.665	-68.01
5855.00	S	Peak	40.79	9.58	50.37	110.83	-60.46
5875.00	S	Peak	40.41	9.63	50.04	105.23	-55.19
5925.00	S	Peak	40.53	10.01	50.55	68.23	-17.68

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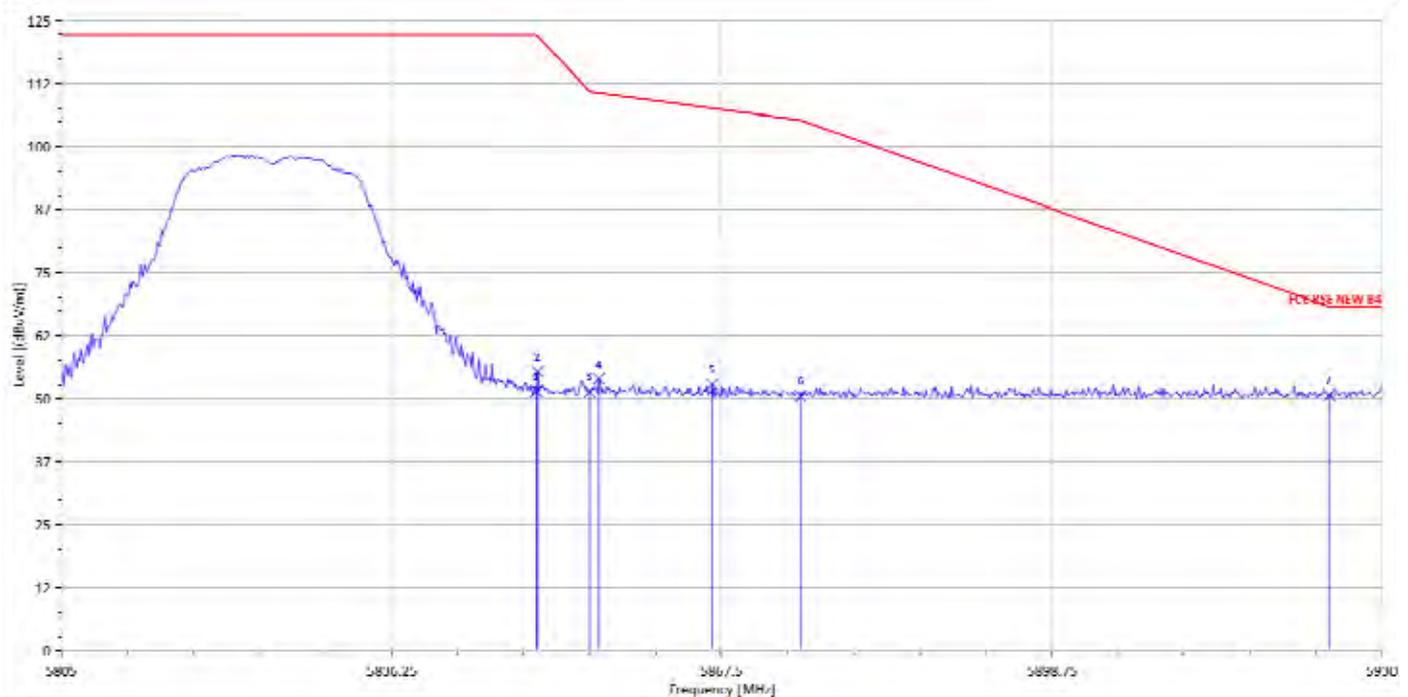
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 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	41.97	9.49	51.46	122.23	-70.77
5850.13	S	Peak	45.78	9.49	55.27	121.945	-66.67
5855.00	S	Peak	41.83	9.58	51.41	110.83	-59.42
5855.88	S	Peak	44.26	9.60	53.86	110.585	-56.73
5866.63	S	Peak	43.06	9.68	52.74	107.575	-54.83
5875.00	S	Peak	40.88	9.63	50.51	105.23	-54.72
5925.00	S	Peak	40.70	10.01	50.71	68.23	-17.52

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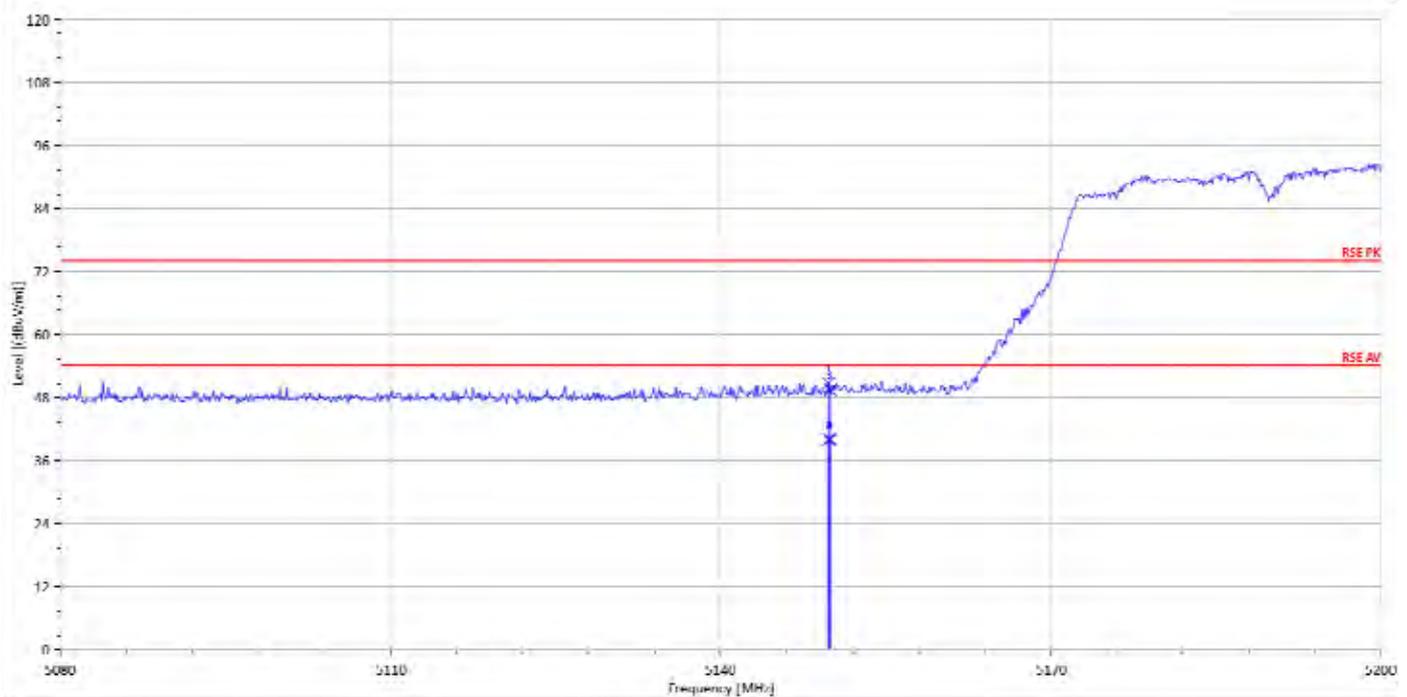
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802.11n HT40 mode

Operation Mode :	802.11n40	Test Date :	2017/1/20
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	H	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
5149.84	S	Peak	42.44	8.19	50.63	74	-23.37
5149.84	S	Average	31.77	8.19	39.96	54	-14.04
5150.00	E	Peak	41.28	8.19	49.48	74	-24.52
5150.00	E	Average	31.78	8.19	39.97	54	-14.03

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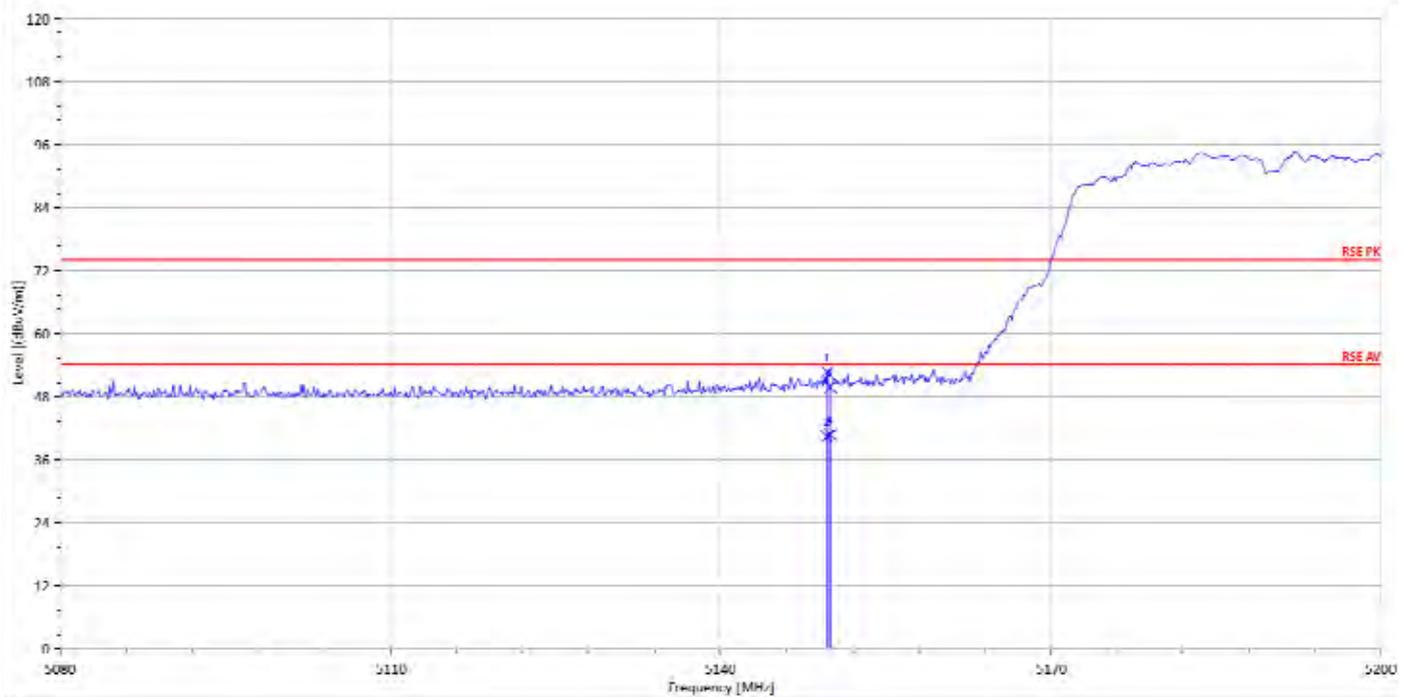
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Operation Mode : 802.11n40 Test Date : 2017/1/20
 Fundamental Frequency : 5190 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5149.72	S	Peak	44.42	8.19	52.61	74	-21.39
5149.72	S	Average	32.25	8.19	40.44	54	-13.56
5150.00	E	Peak	41.60	8.19	49.79	74	-24.21
5150.00	E	Average	32.55	8.19	40.74	54	-13.26

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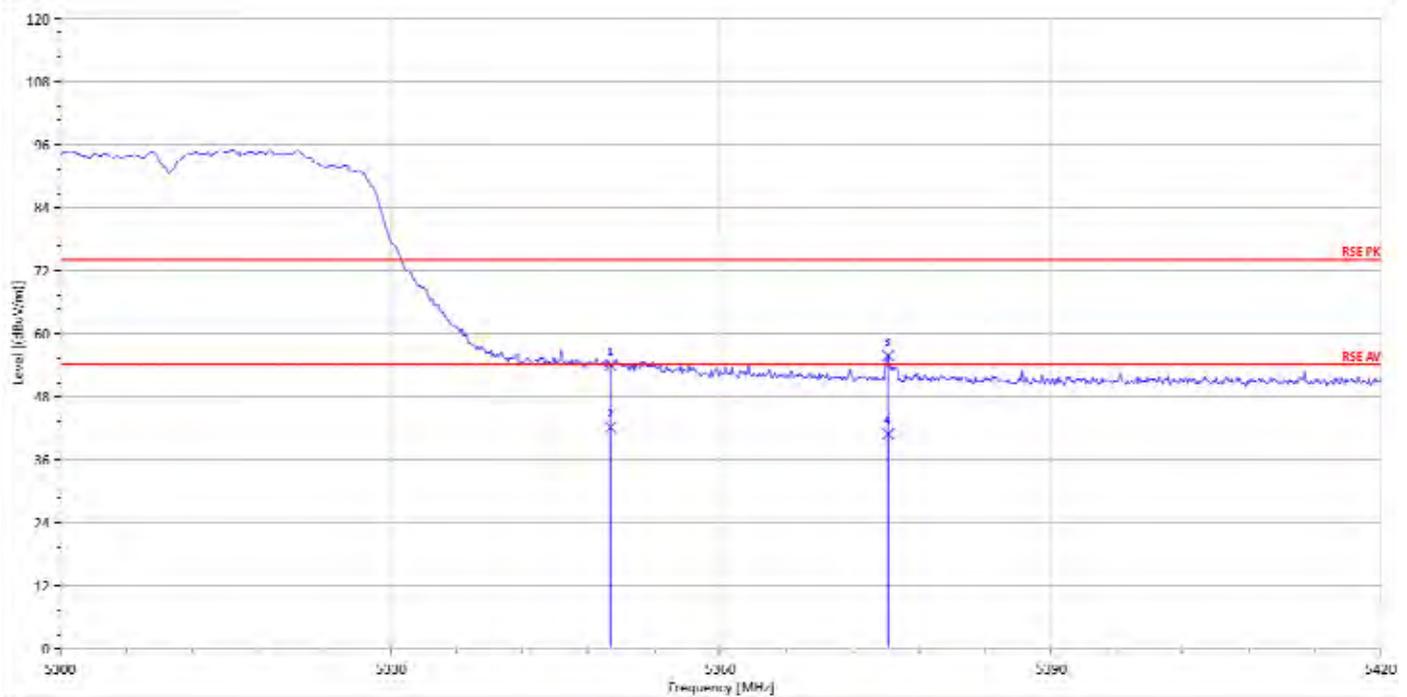
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Operation Mode : 802.11n40 Test Date : 2017/1/20
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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
5350.00	E	Peak	44.94	8.96	53.91	74	-20.09
5350.00	E	Average	33.19	8.96	42.15	54	-11.85
5375.24	S	Peak	46.95	8.80	55.75	74	-18.25
5375.24	S	Average	32.06	8.80	40.86	54	-13.14

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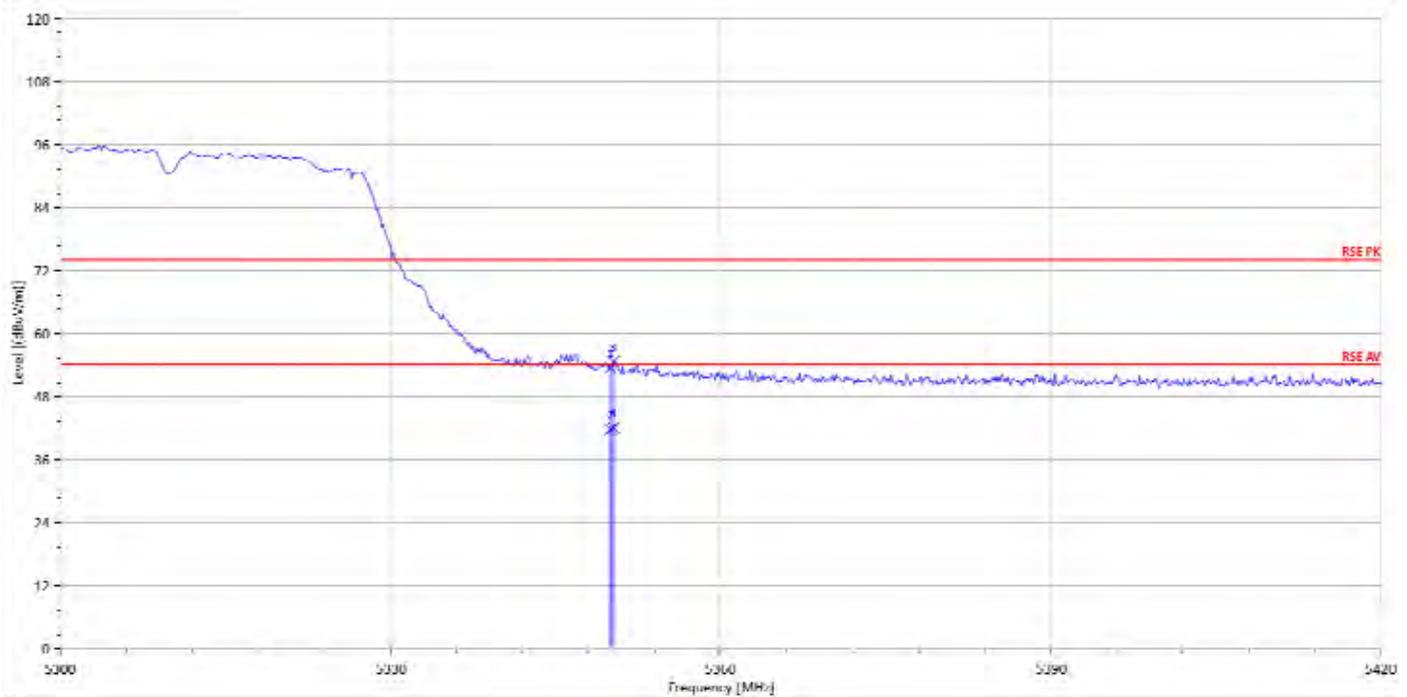
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 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	S	Peak	44.46	8.96	53.42	74	-20.58
5350.00	S	Average	32.80	8.96	41.76	54	-12.24
5350.28	S	Peak	45.65	8.97	54.62	74	-19.38
5350.28	S	Average	33.08	8.97	42.05	54	-11.95

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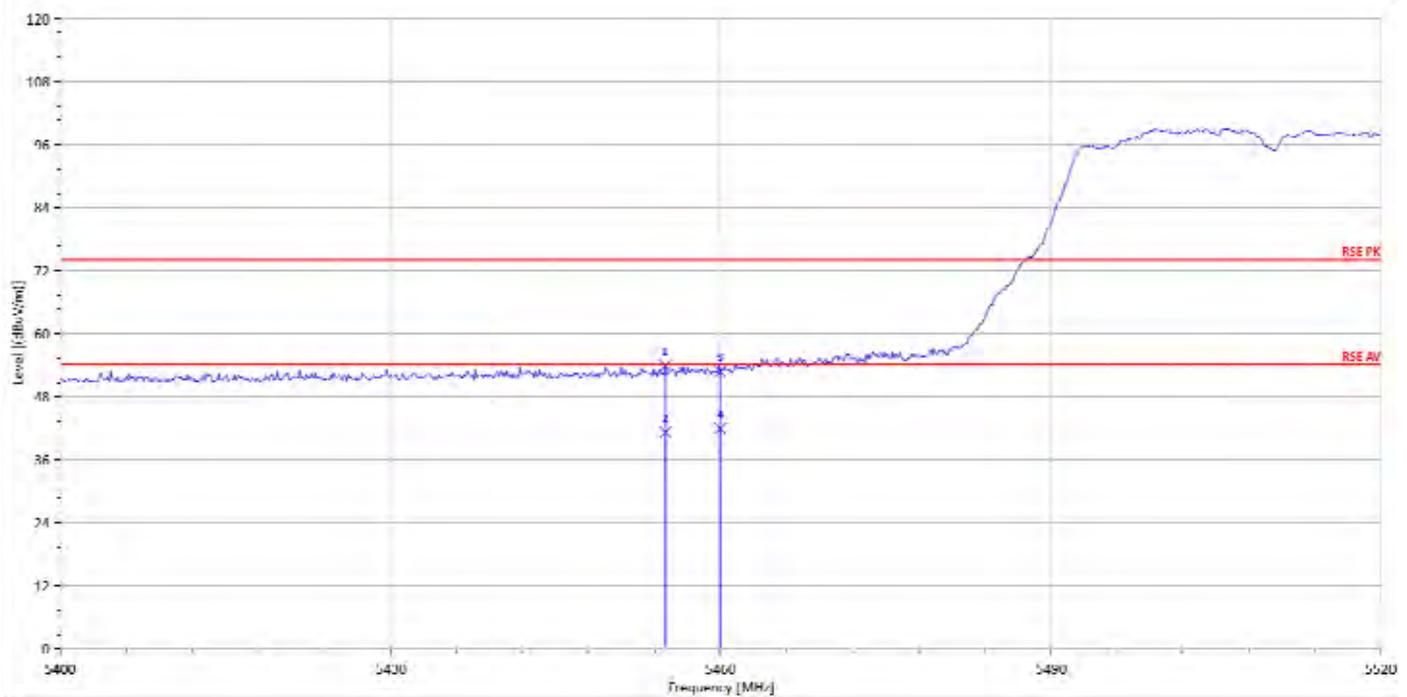
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Operation Mode : 802.11n40 Test Date : 2017/1/20
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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
5454.96	S	Peak	44.88	8.93	53.81	74	-20.19
5454.96	S	Average	32.23	8.93	41.16	54	-12.84
5460.00	E	Peak	43.80	8.88	52.68	74	-21.32
5460.00	E	Average	33.03	8.88	41.91	54	-12.09

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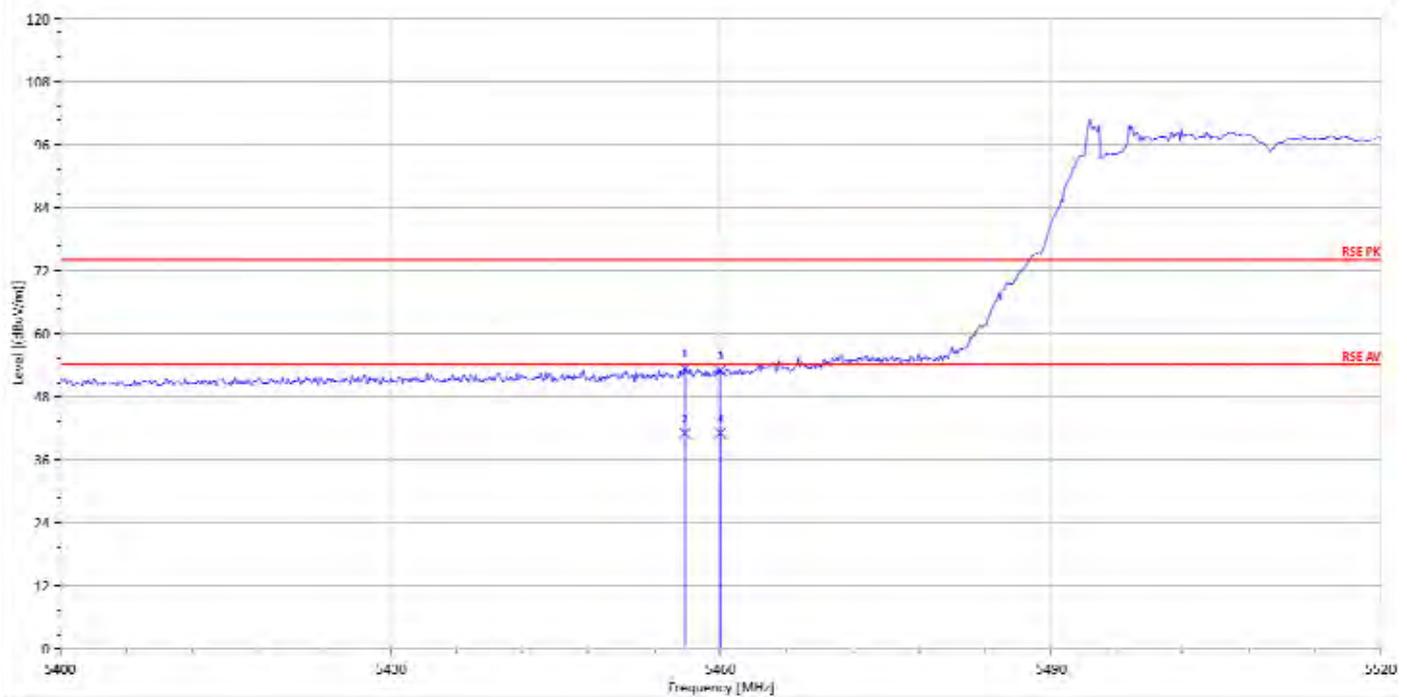
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 Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5456.76	S	Peak	44.43	8.91	53.34	74	-20.66
5456.76	S	Average	32.12	8.91	41.03	54	-12.97
5460.00	E	Peak	44.05	8.88	52.93	74	-21.07
5460.00	E	Average	32.18	8.88	41.06	54	-12.94

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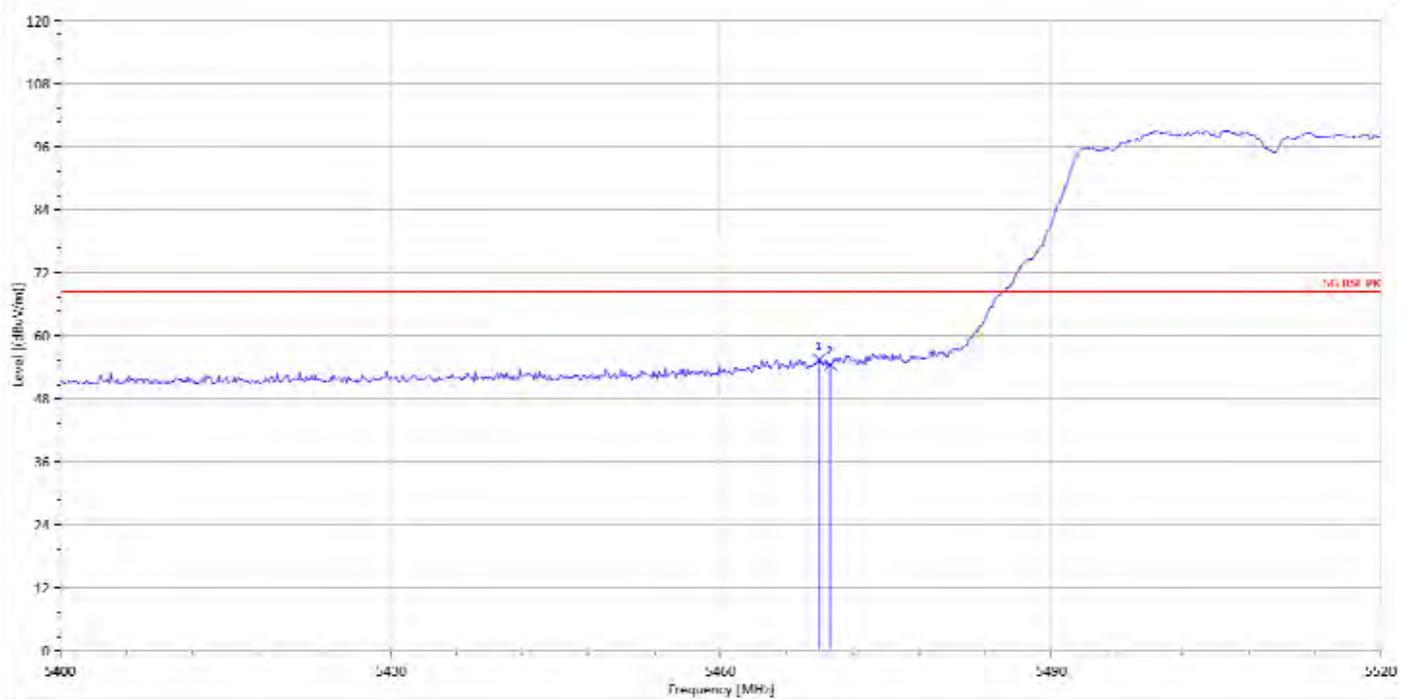
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Operation Mode :	802.11n40	Test Date :	2017/1/20
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



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
5469.00	S	Peak	46.59	8.80	55.39	68.3	-12.91
5470.00	E	Peak	45.59	8.79	54.38	68.3	-13.92

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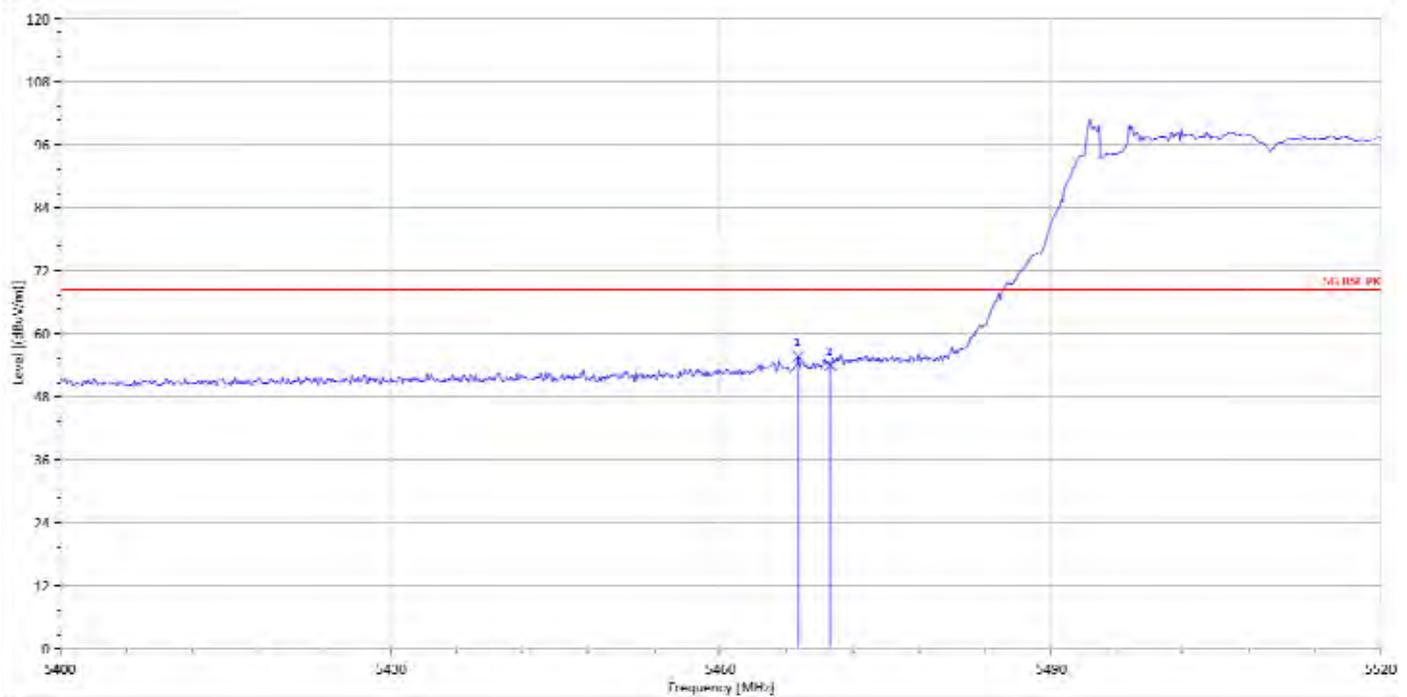
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Operation Mode :	802.11n40	Test Date :	2017/1/20
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



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
5467.08	S	Peak	46.78	8.82	55.59	68.3	-12.71
5470.00	E	Peak	45.12	8.79	53.91	68.3	-14.39

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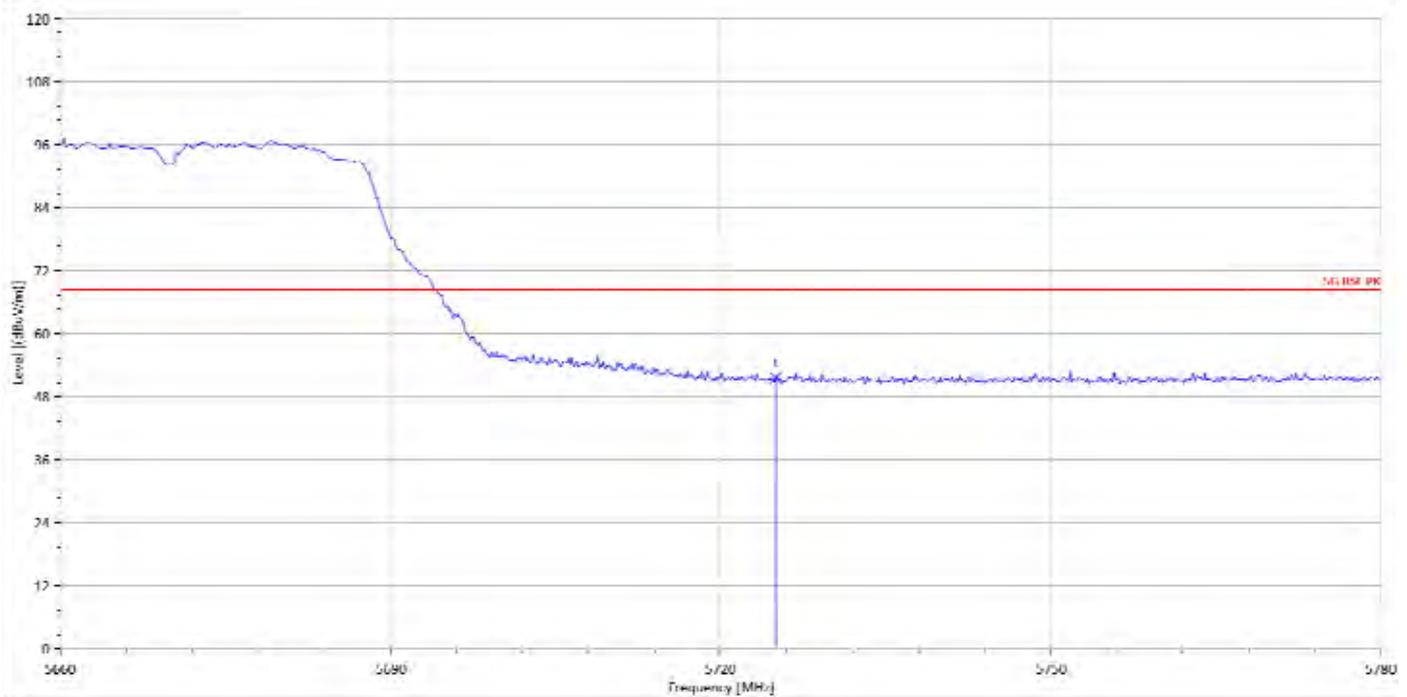
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Operation Mode : 802.11n40 Test Date : 2017/1/20
 Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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	42.19	9.30	51.49	68.3	-16.81

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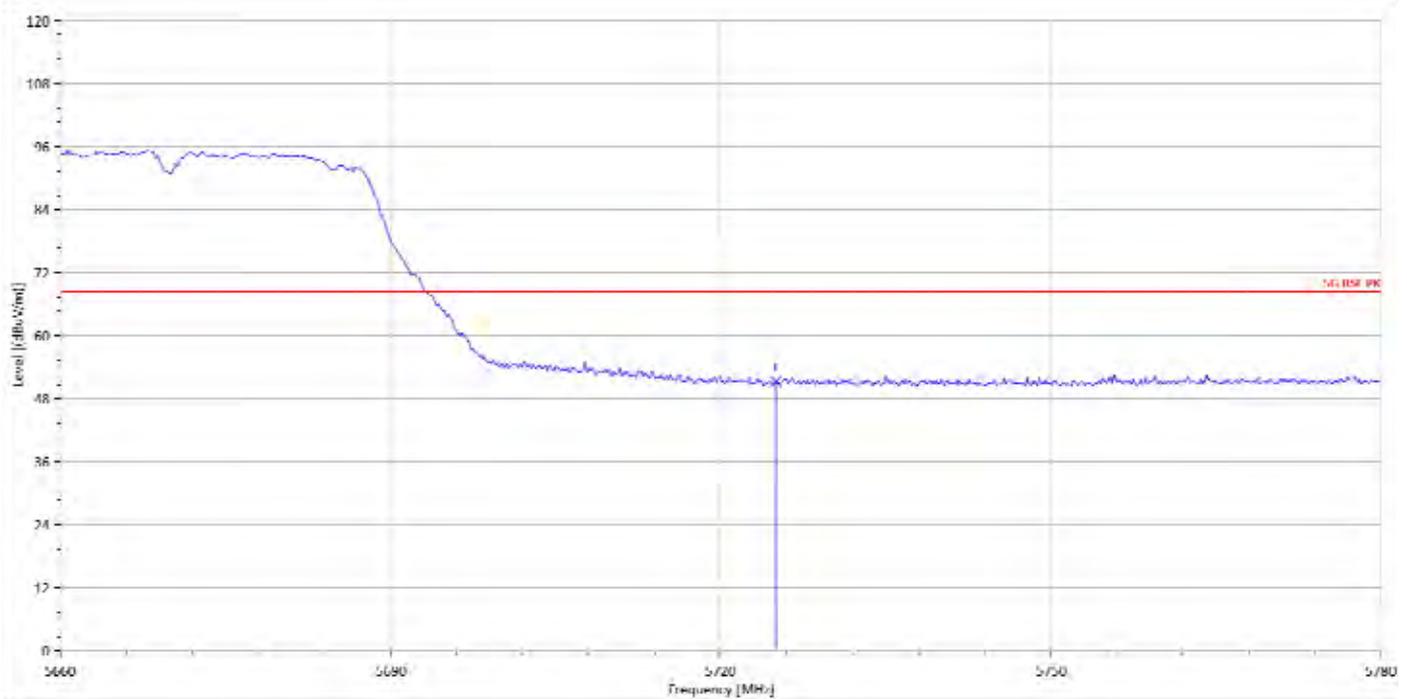
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Operation Mode : 802.11n40 Test Date : 2017/1/20
 Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	41.87	9.30	51.17	68.3	-17.13

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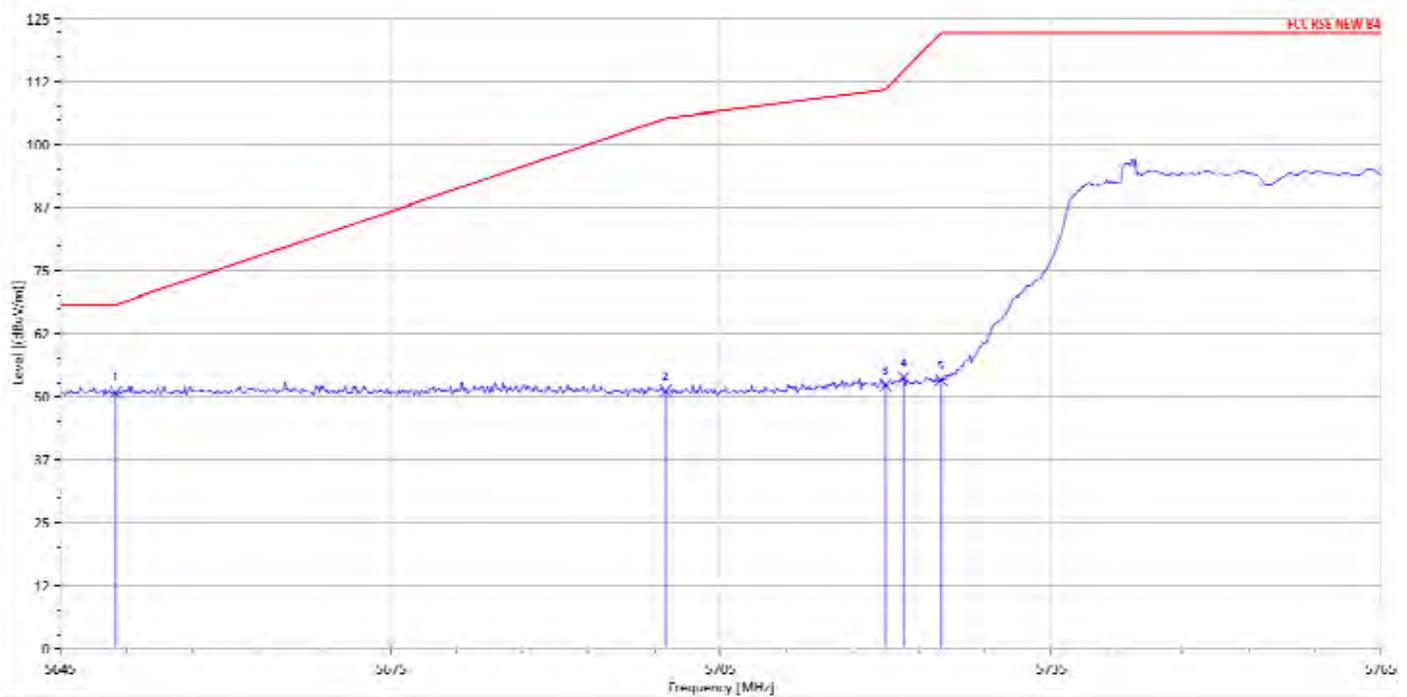
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Operation Mode : 802.11n40 Test Date : 2017/1/20
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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	41.53	9.33	50.86	68.23	-17.37
5700.00	S	Peak	41.72	9.44	51.16	105.23	-54.07
5720.00	S	Peak	42.95	9.28	52.23	110.83	-58.60
5721.68	S	Peak	44.45	9.29	53.74	114.6608	-60.92
5725.00	E	Peak	43.90	9.30	53.20	122.23	-69.03

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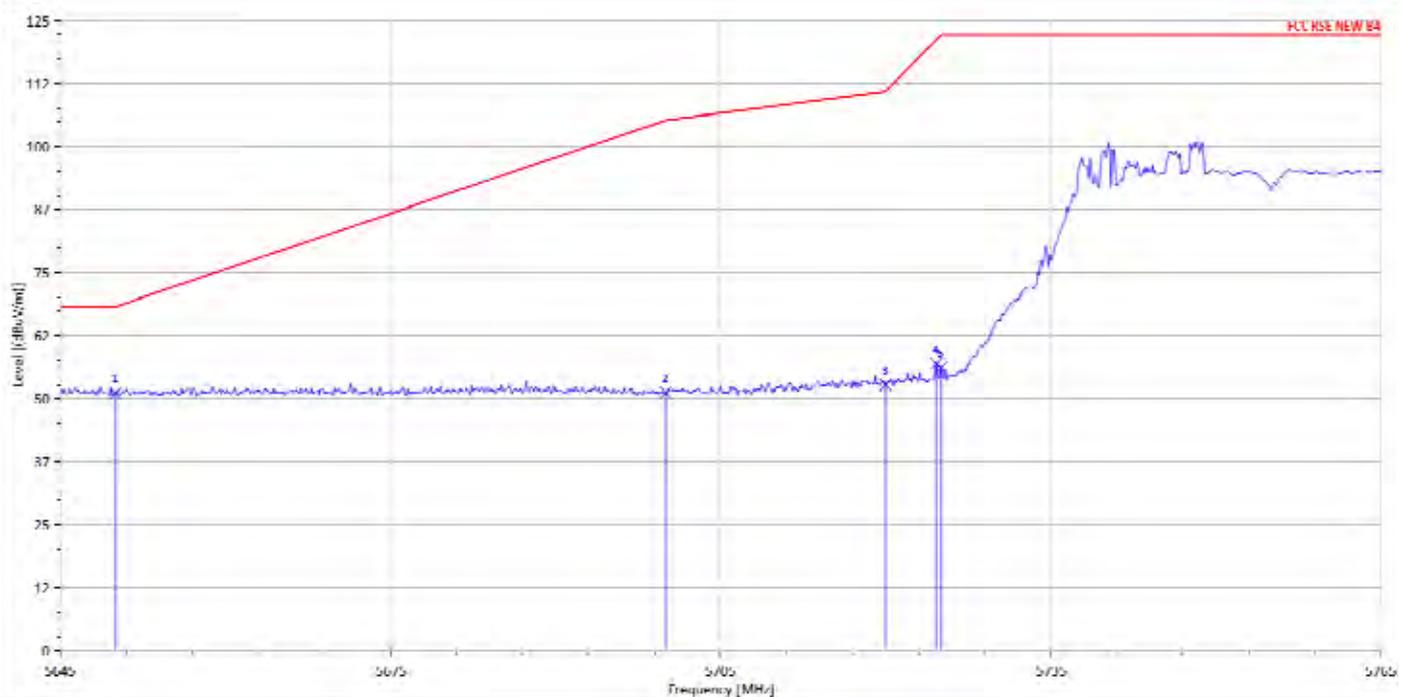
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 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	41.72	9.33	51.05	68.23	-17.18
5700.00	S	Peak	41.73	9.44	51.17	105.23	-54.06
5720.00	S	Peak	43.40	9.28	52.68	110.83	-58.15
5724.56	S	Peak	47.53	9.30	56.83	121.2269	-64.40
5725.00	E	Peak	46.79	9.30	56.09	122.23	-66.14

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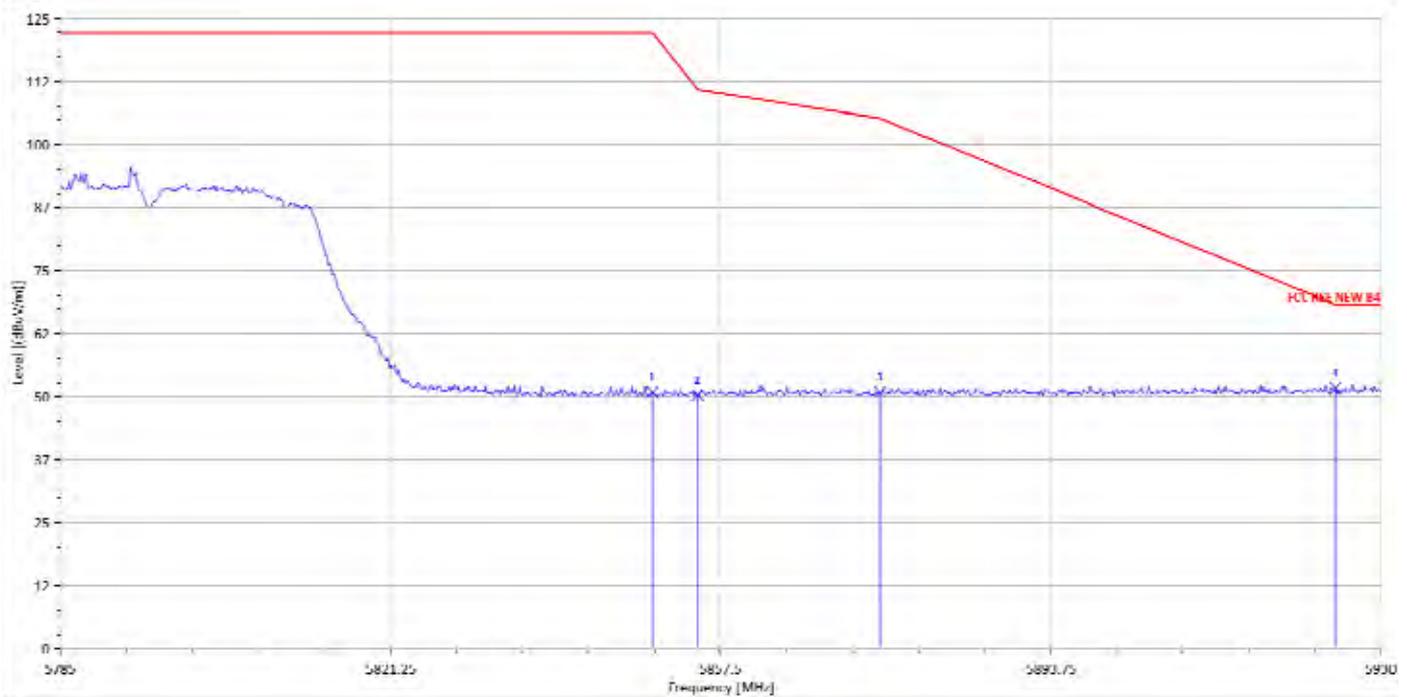
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Operation Mode : 802.11n40 Test Date : 2017/1/20
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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	41.36	9.49	50.85	122.23	-71.38
5855.00	S	Peak	40.73	9.58	50.31	110.83	-60.52
5875.00	S	Peak	41.26	9.63	50.89	105.23	-54.34
5925.00	S	Peak	41.60	10.01	51.61	68.23	-16.62

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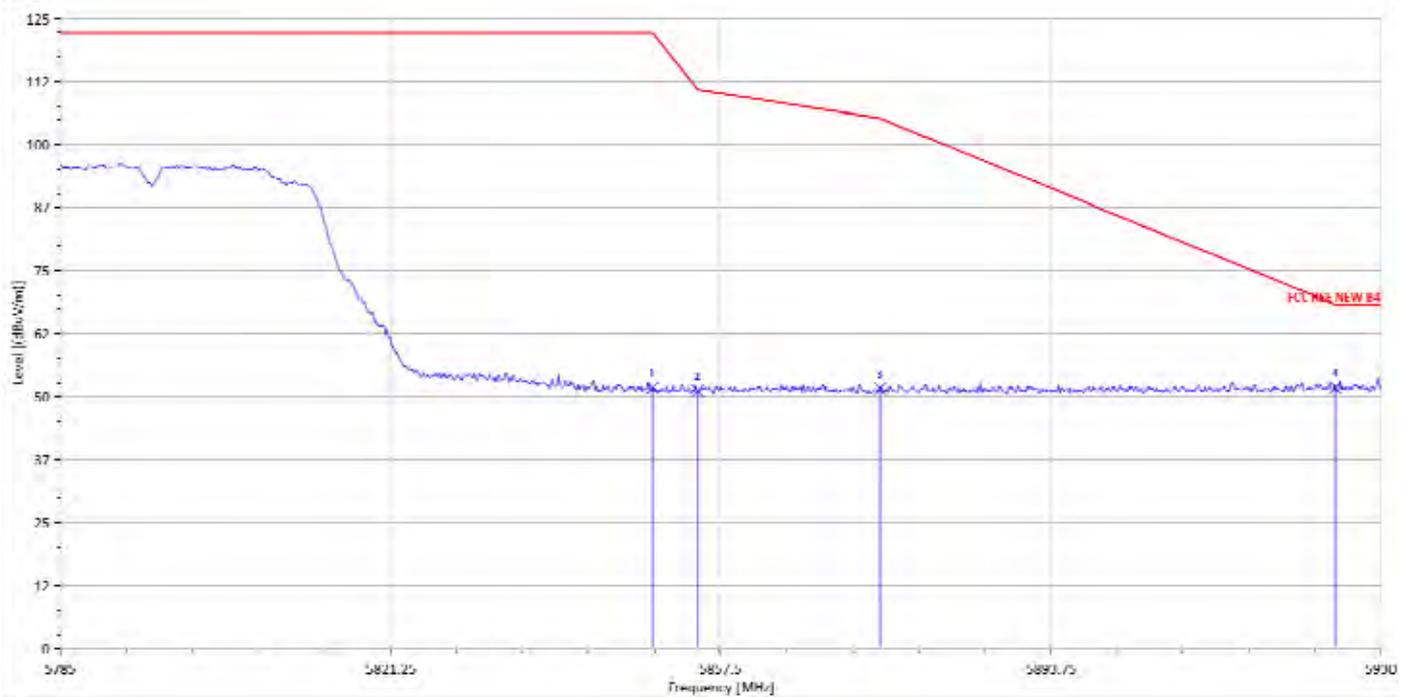
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 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5850.00	E	Peak	42.23	9.49	51.72	122.23	-70.51
5855.00	S	Peak	41.57	9.58	51.15	110.83	-59.68
5875.00	S	Peak	41.94	9.63	51.57	105.23	-53.66
5925.00	S	Peak	41.74	10.01	51.75	68.23	-16.48

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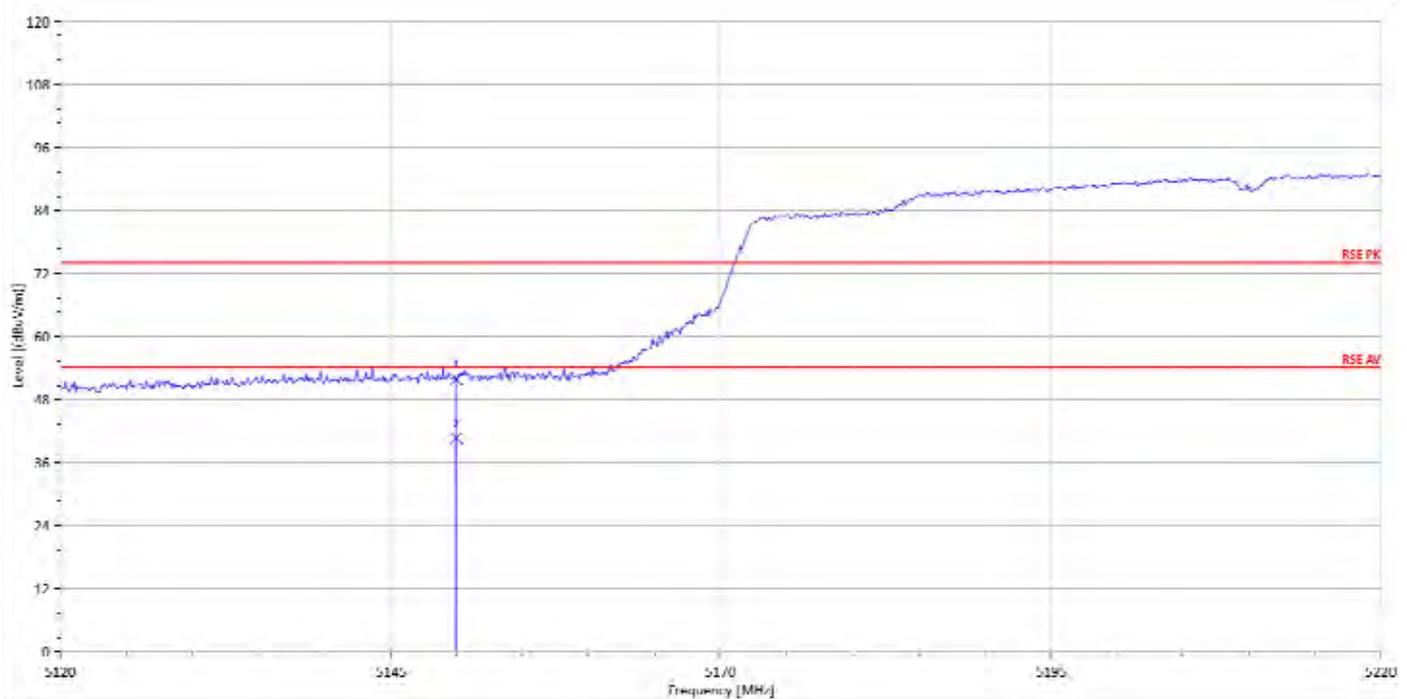
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802.11ac80 VHT mode

Operation Mode :	802.11ac80	Test Date :	2017/1/20
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	H	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
5150.00	E	Peak	43.55	8.19	51.75	74	-22.25
5150.00	E	Average	32.45	8.19	40.64	54	-13.36

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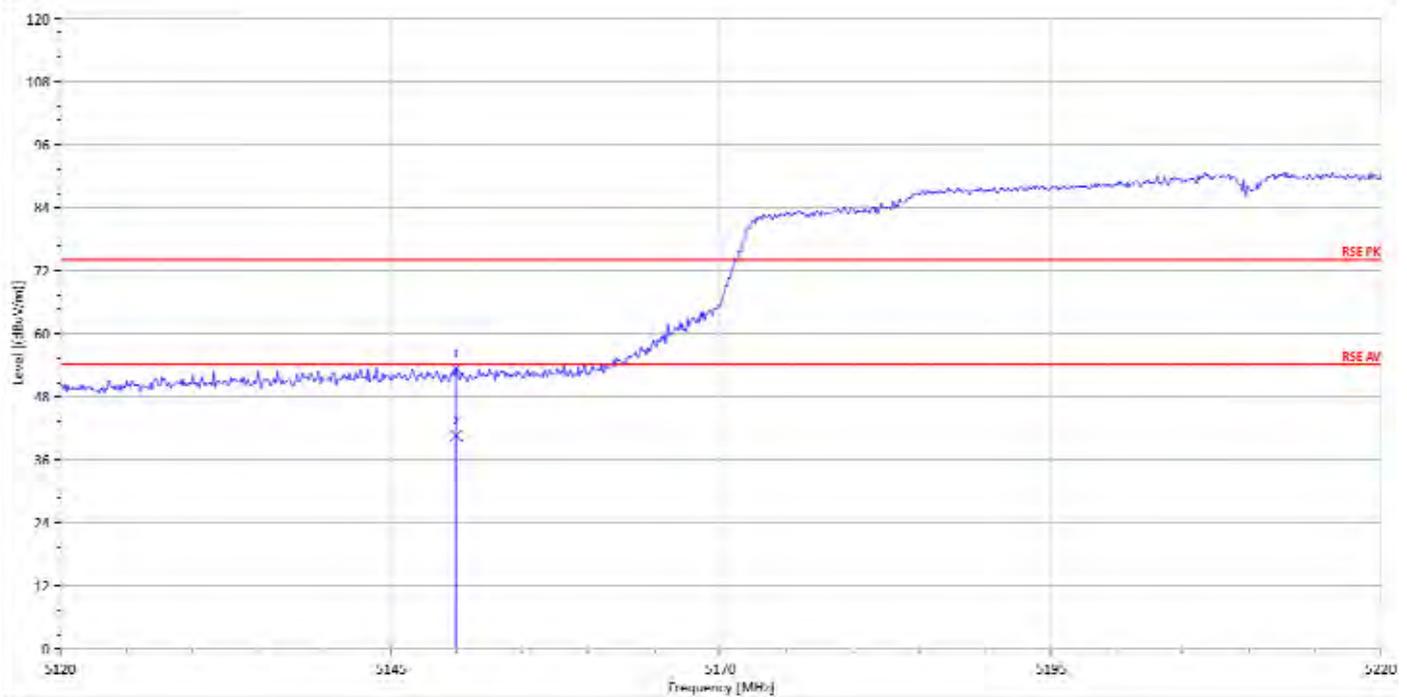
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Operation Mode : 802.11ac80 Test Date : 2017/1/20
 Fundamental Frequency : 5210 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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
5150.00	E	Peak	45.06	8.19	53.25	74	-20.75
5150.00	E	Average	32.39	8.19	40.58	54	-13.42

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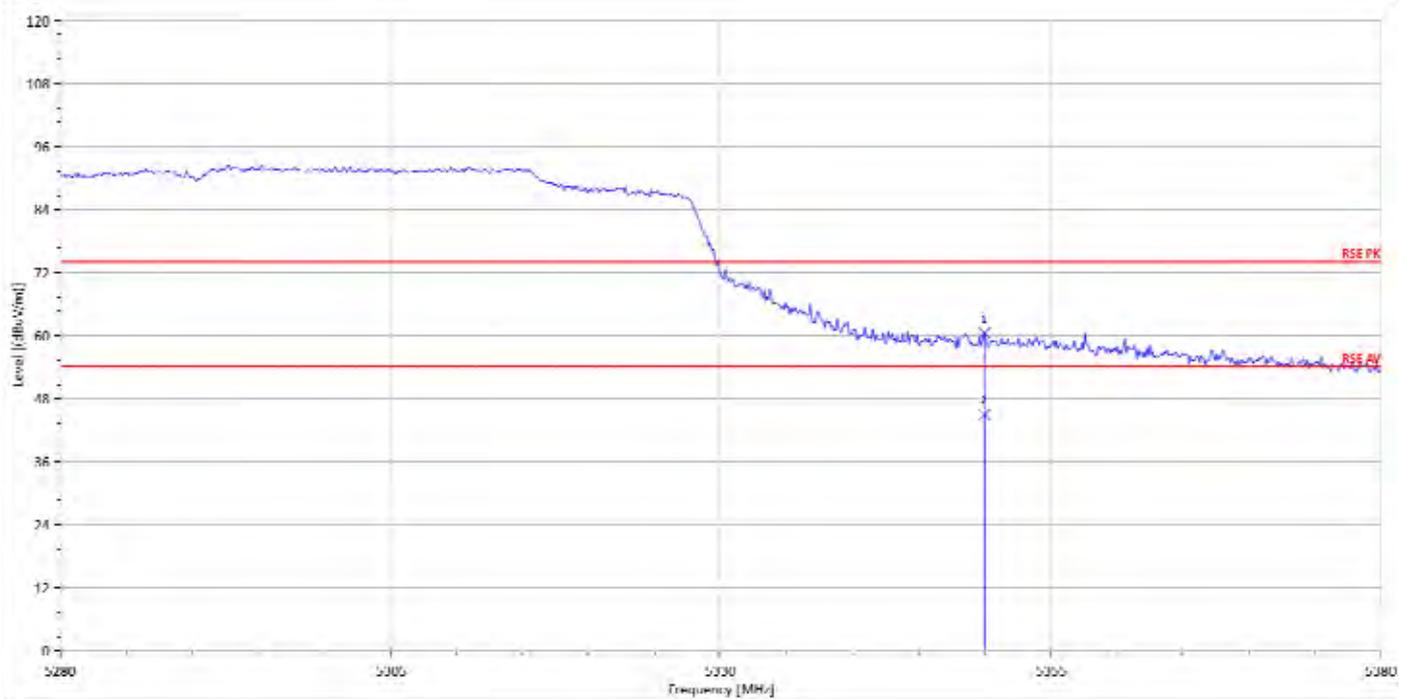
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Operation Mode : 802.11ac80 Test Date : 2017/1/20
 Fundamental Frequency : 5290 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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	51.55	8.96	60.51	74	-13.49
5350.00	E	Average	36.01	8.96	44.97	54	-9.03

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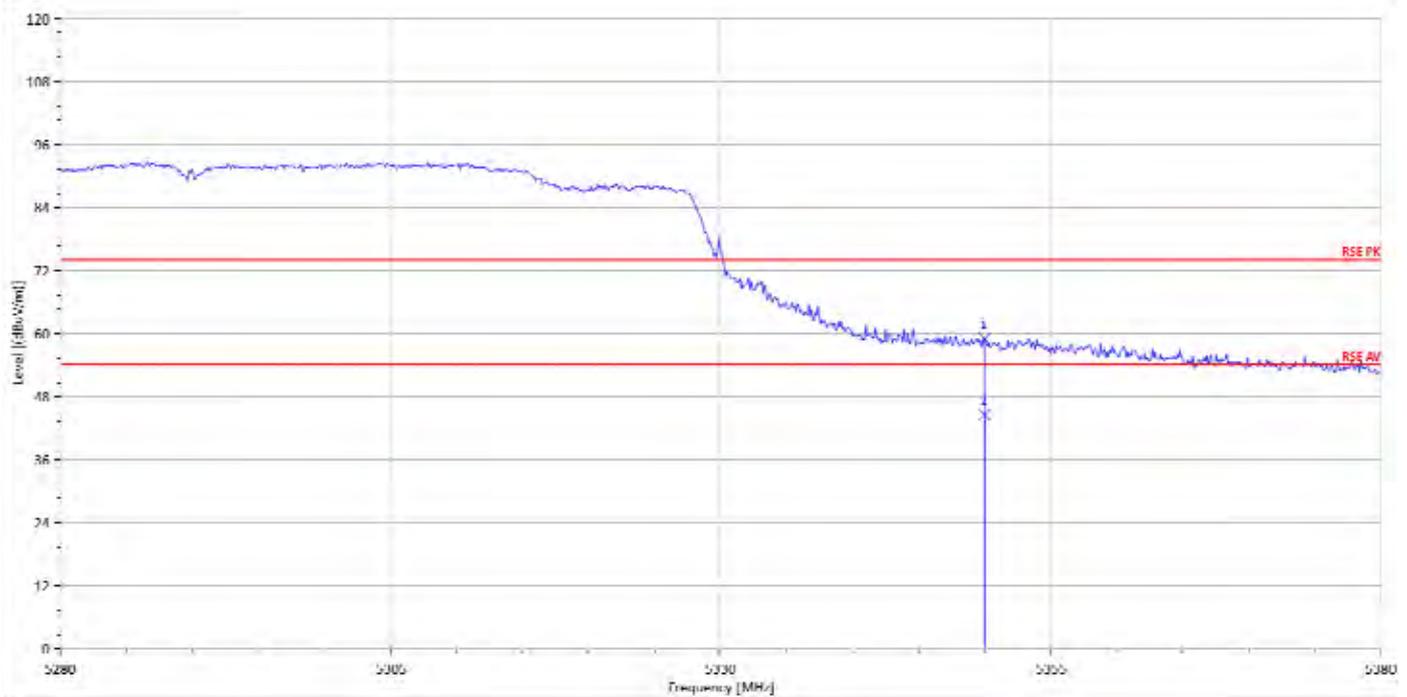
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Operation Mode : 802.11ac80 Test Date : 2017/1/20
 Fundamental Frequency : 5290 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	50.03	8.96	58.99	74	-15.01
5350.00	E	Average	35.58	8.96	44.54	54	-9.46

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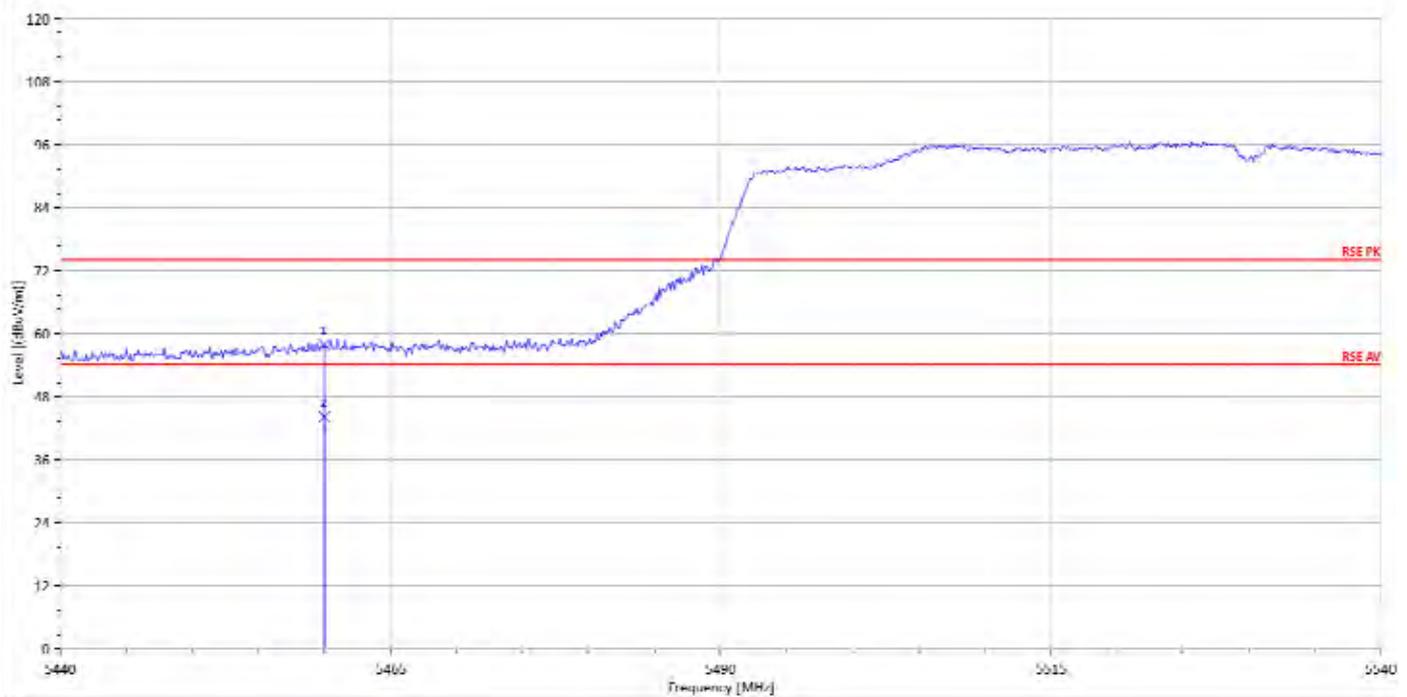
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Operation Mode :	802.11ac80	Test Date :	2017/1/20
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



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	48.96	8.88	57.84	74	-16.16
5460.00	E	Average	35.28	8.88	44.16	54	-9.84

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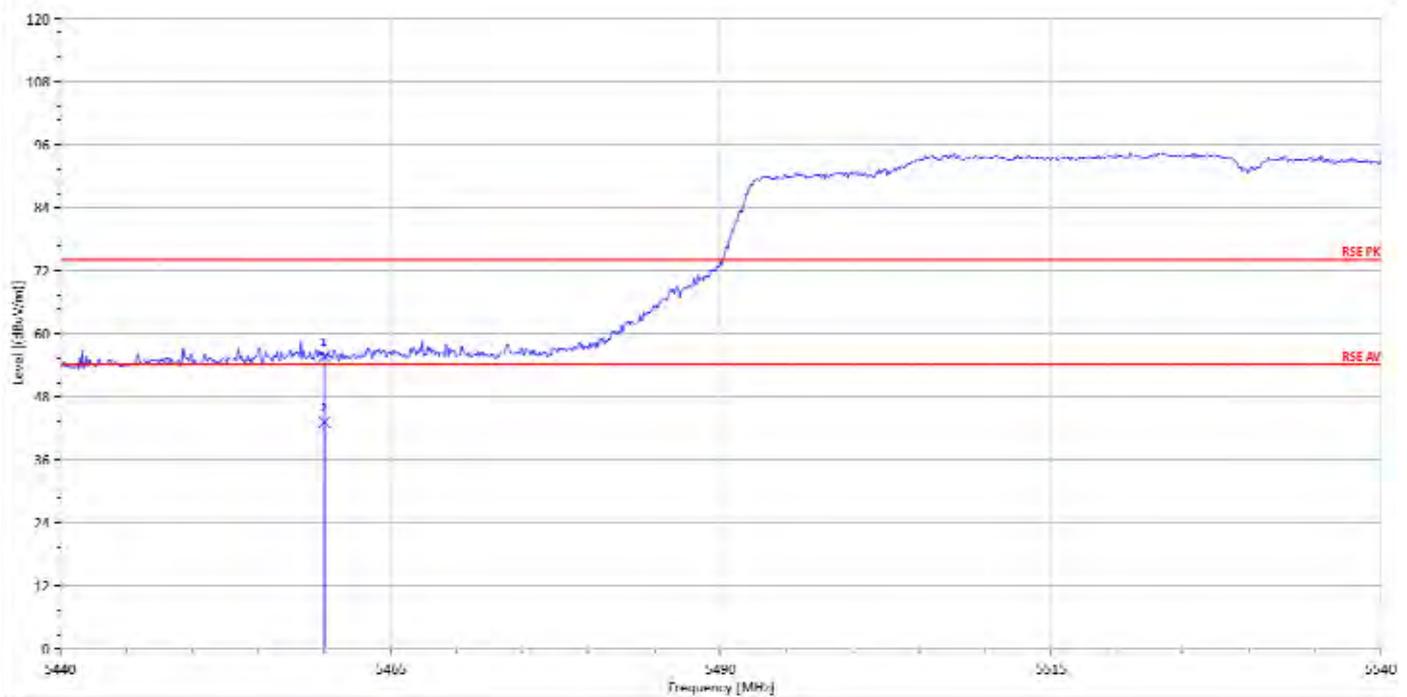
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Operation Mode : 802.11ac80 Test Date : 2017/1/20
 Fundamental Frequency : 5530 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	46.72	8.88	55.60	74	-18.40
5460.00	E	Average	34.29	8.88	43.17	54	-10.83

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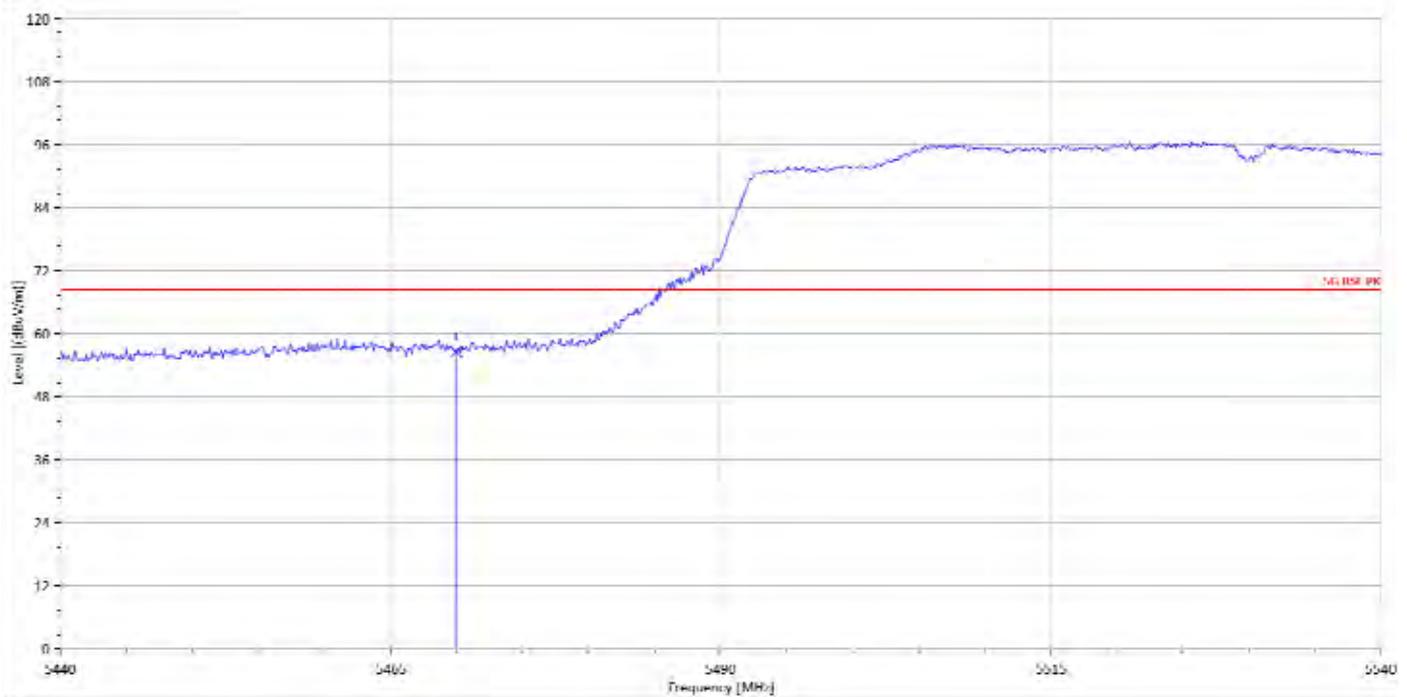
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Operation Mode :	802.11ac80	Test Date :	2017/1/20
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



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
5470.00	E	Peak	47.74	8.79	56.53	68.3	-11.77

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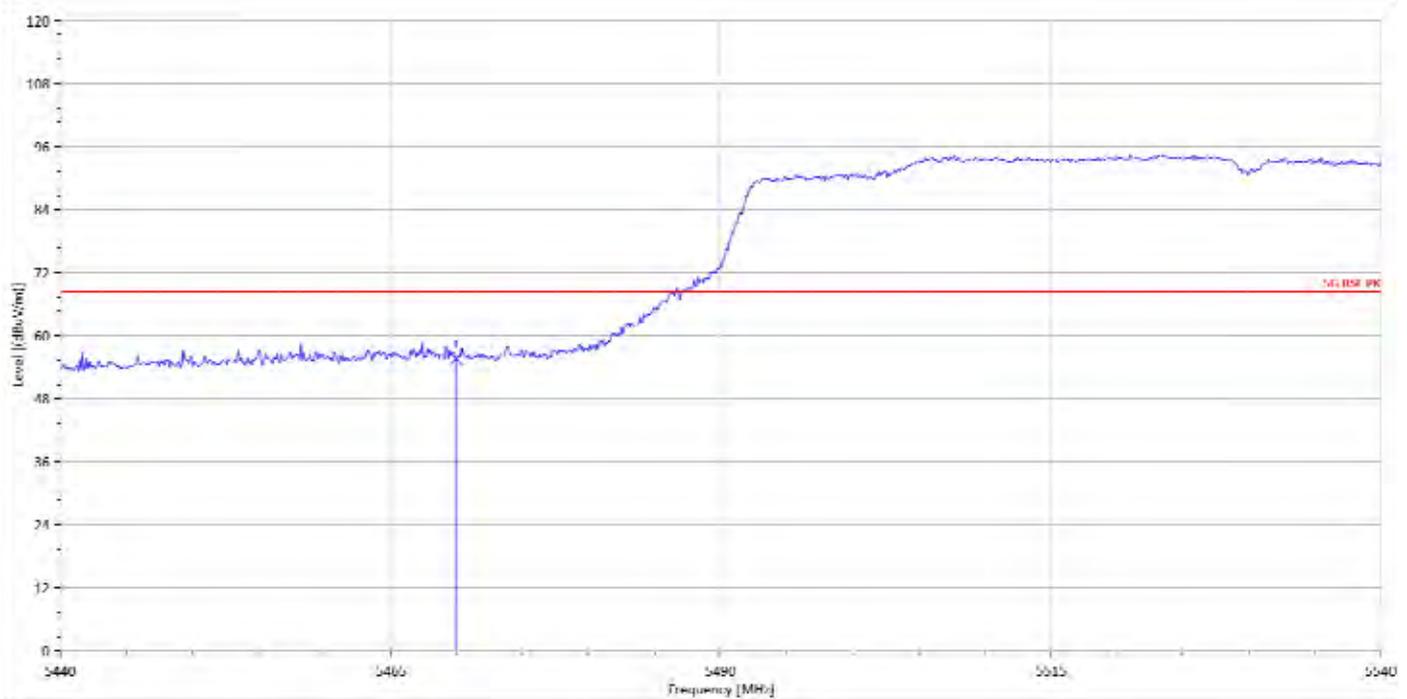
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Operation Mode :	802.11ac80	Test Date :	2017/1/20
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



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
5470.00	E	Peak	46.78	8.79	55.57	68.3	-12.73

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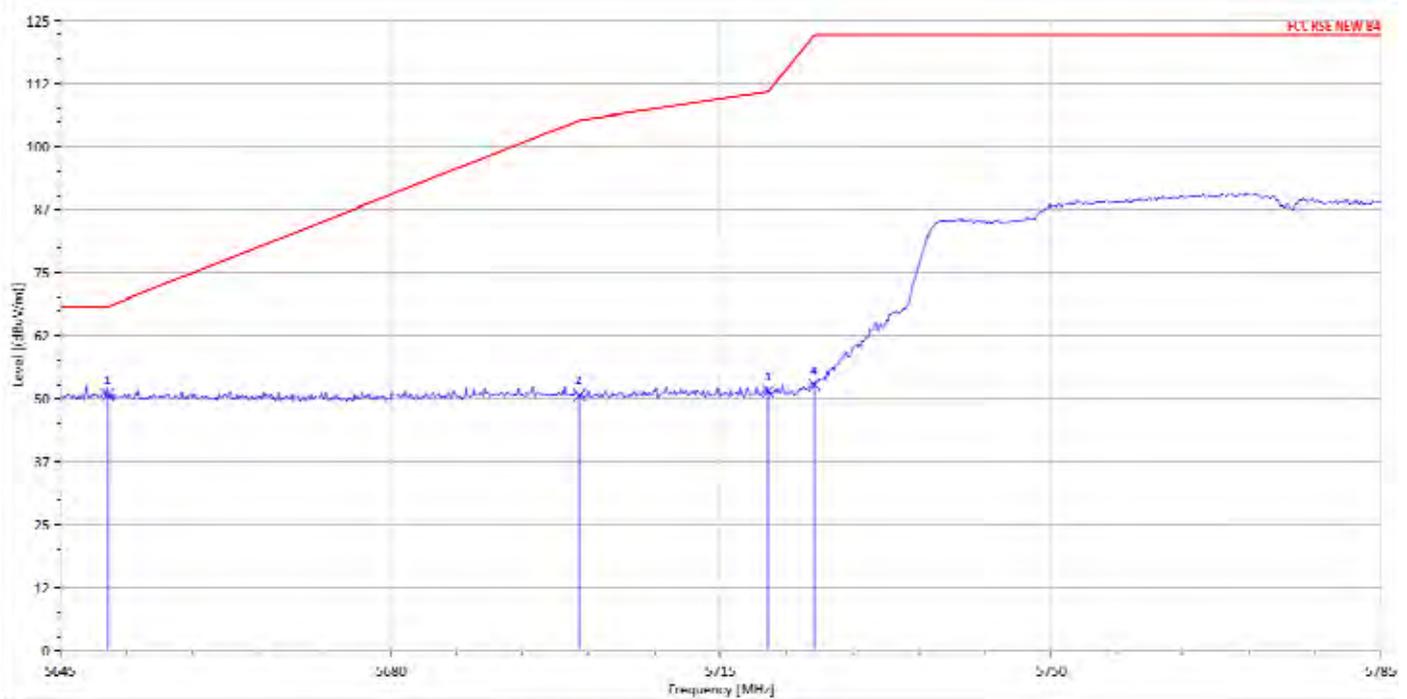
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Operation Mode : 802.11ac80 Test Date : 2017/1/20
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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	41.45	9.33	50.79	68.23	-17.44
5700.00	S	Peak	41.28	9.44	50.72	105.23	-54.51
5720.00	S	Peak	42.11	9.28	51.39	110.83	-59.44
5725.00	E	Peak	43.35	9.30	52.65	122.23	-69.58

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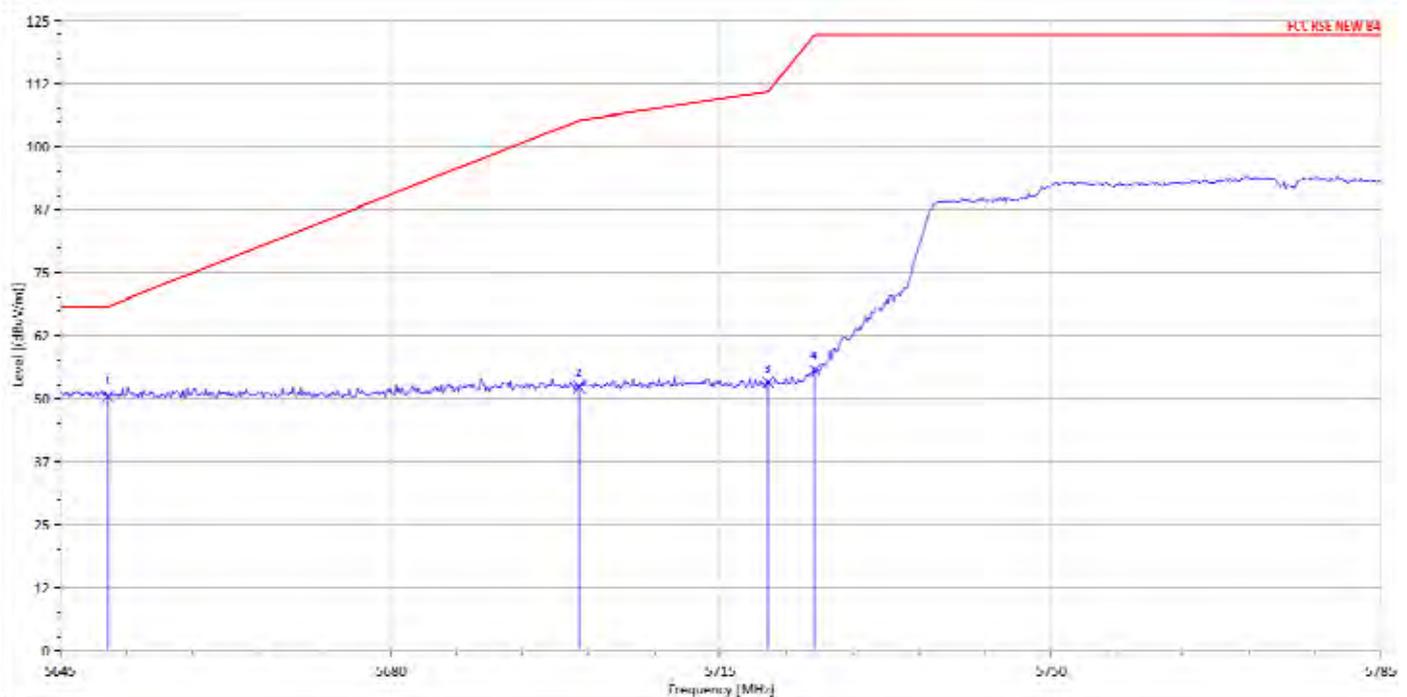
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 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5650.00	S	Peak	41.15	9.33	50.48	68.23	-17.75
5700.00	S	Peak	42.82	9.44	52.26	105.23	-52.97
5720.00	S	Peak	43.84	9.28	53.12	110.83	-57.71
5725.00	E	Peak	46.31	9.30	55.61	122.23	-66.62

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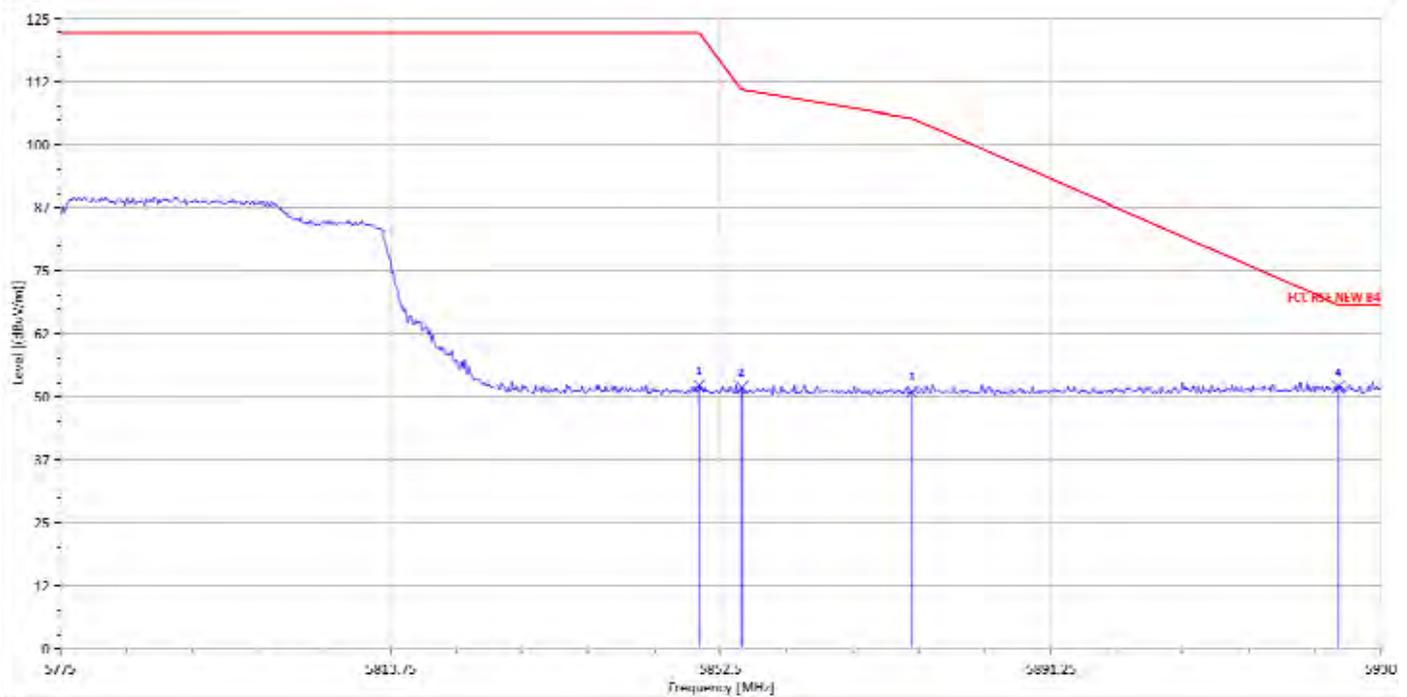
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 Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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	42.69	9.49	52.18	122.23	-70.05
5855.00	S	Peak	42.24	9.58	51.82	110.83	-59.01
5875.00	S	Peak	41.34	9.63	50.97	105.23	-54.26
5925.00	S	Peak	41.84	10.01	51.85	68.23	-16.38

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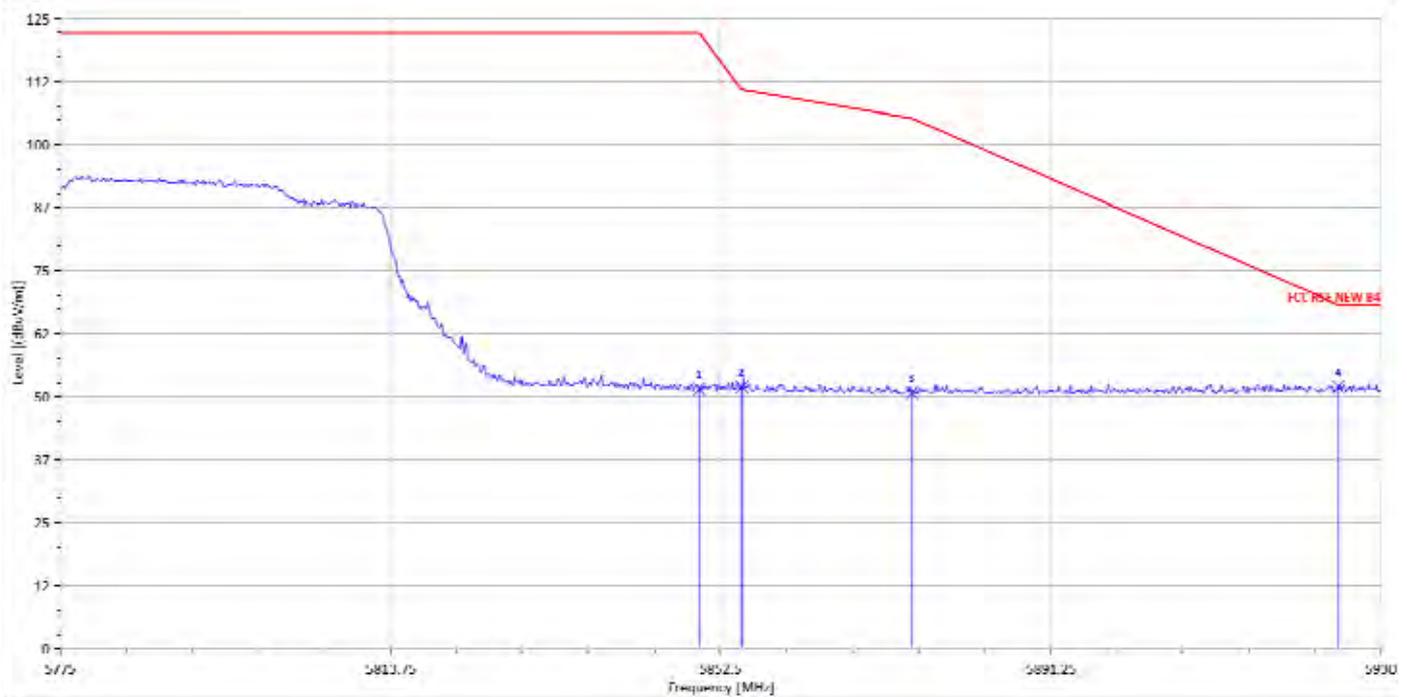
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Operation Mode : 802.11ac80 Test Date : 2017/1/20
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	42.04	9.49	51.53	122.23	-70.70
5855.00	S	Peak	42.34	9.58	51.92	110.83	-58.91
5875.00	S	Peak	41.17	9.63	50.80	105.23	-54.43
5925.00	S	Peak	41.90	10.01	51.91	68.23	-16.32

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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

No non-compliance noted:

Refer to the theory of operation.

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13. FREQUENCY STABILITY

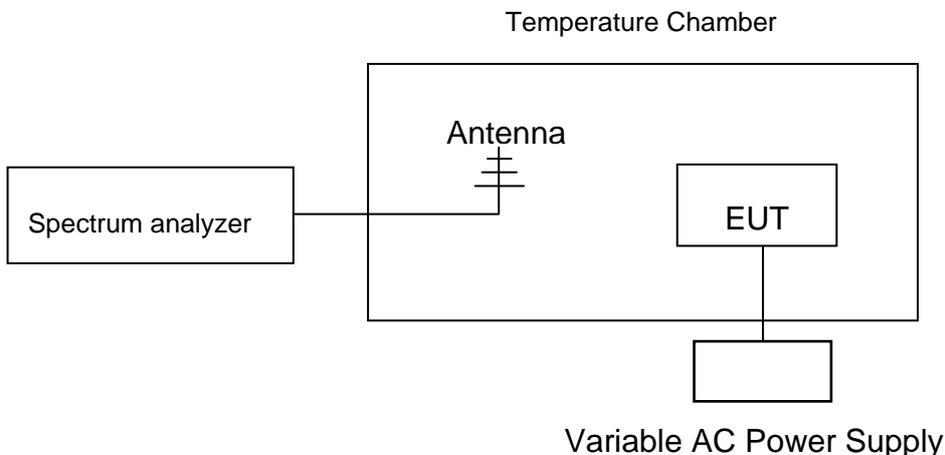
13.1 Standard Applicable

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 Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2016	05/03/2017
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/16/2016	06/15/2017

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13.5 Measurement Result

Operation Mode	802.11 a	Test Date	2017.02.06
Temperature	:25	Test By	Pony
Humidity	:65 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	8.7V	36	5180	5,180.03003	-0.00000580
		44	5220	5,220.04492	-0.00000861
		48	5240	5,240.03003	-0.00000573
		52	5260	5,260.04492	-0.00000854
		60	5300	5,300.06006	-0.00001133
		64	5320	5,320.05981	-0.00001124
		100	5500	5,499.98511	0.00000271
		116	5580	5,580.03003	-0.00000538
		140	5700	5,700.01514	-0.00000266
		149	5745	5,745.03003	-0.00000523
		157	5785	5,785.03003	-0.00000519
		165	5825	5,825.04492	-0.00000771
	6V	36	5180	5,180.06006	-0.00001159
		44	5220	5,220.06006	-0.00001151
		48	5240	5,240.03003	-0.00000573
		52	5260	5,260.03003	-0.00000571
		60	5300	5,300.97485	-0.00018393
		64	5320	5,320.03003	-0.00000564
		100	5500	5,500.03003	-0.00000546
		116	5580	5,580.03003	-0.00000538
		140	5700	5,700.03003	-0.00000527
		149	5745	5,745.05981	-0.00001041
		157	5785	5,785.03003	-0.00000519
		165	5825	5,825.03003	-0.00000516

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25	7.6V	36	5180	5,180.02979	-0.00000575
		44	5220	5,220.04517	-0.00000865
		48	5240	5,240.03003	-0.00000573
		52	5260	5,260.05981	-0.00001137
		60	5300	5,300.04517	-0.00000852
		64	5320	5,320.01489	-0.00000280
		100	5500	5,500.03003	-0.00000546
		116	5580	5,580.04517	-0.00000809
		140	5700	5,700.03003	-0.00000527
		149	5745	5,745.04492	-0.00000782
		157	5785	5,785.03003	-0.00000519
		165	5825	5,825.03003	-0.00000516
55	8.7V	36	5180	5,180.00000	0.00000000
		44	5220	5,220.07495	-0.00001436
		48	5240	5,240.03003	-0.00000573
		52	5260	5,260.03003	-0.00000571
		60	5300	5,300.03003	-0.00000567
		64	5320	5,320.04517	-0.00000849
		100	5500	5,500.04492	-0.00000817
		116	5580	5,580.02979	-0.00000534
		140	5700	5,700.04492	-0.00000788
		149	5745	5,745.00000	0.00000000
		157	5785	5,785.04517	-0.00000781
		165	5825	5,825.03003	-0.00000516
	6V	36	5180	5,180.03003	-0.00000580
		44	5220	5,220.03003	-0.00000575
		48	5240	5,240.03003	-0.00000573
		52	5260	5,260.04492	-0.00000854
		60	5300	5,300.02979	-0.00000562
		64	5320	5,320.04492	-0.00000844
		100	5500	5,500.03003	-0.00000546
		116	5580	5,580.04517	-0.00000809
		140	5700	5,700.04492	-0.00000788
		149	5745	5,745.03003	-0.00000523
		157	5785	5,785.01489	-0.00000257
		165	5825	5,825.03003	-0.00000516

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Operation Mode	802.11 n_HT40	Test Date	2017.02.06
Temperature	:25	Test By	Pony
Humidity	:65 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	8.7V	38	5190	5,190.07495	-0.00001444
		46	5230	5,230.07495	-0.00001433
		54	5270	5,270.07495	-0.00001422
		62	5310	5,310.07495	-0.00001412
		102	5510	5,510.07495	-0.00001360
		110	5550	5,550.05005	-0.00000902
		134	5670	5,670.07495	-0.00001322
		151	5755	5,755.02515	-0.00000437
		159	5795	5,795.07495	-0.00001293
	6V	38	5190	5,190.05005	-0.00000964
		46	5230	5,230.07495	-0.00001433
		54	5270	5,270.07495	-0.00001422
		62	5310	5,310.05005	-0.00000943
		102	5510	5,510.07495	-0.00001360
		110	5550	5,550.02515	-0.00000453
		134	5670	5,670.05005	-0.00000883
		151	5755	5,755.07495	-0.00001302
		159	5795	5,795.07495	-0.00001293

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25	7.6V	38	5190	5,190.07495	-0.00001444
		46	5230	5,230.05005	-0.00000957
		54	5270	5,270.05005	-0.00000950
		62	5310	5,310.07495	-0.00001412
		102	5510	5,510.07495	-0.00001360
		110	5550	5,550.07495	-0.00001350
		134	5670	5,670.05005	-0.00000883
		151	5755	5,755.05005	-0.00000870
		159	5795	5,795.07495	-0.00001293
55	8.7V	38	5190	5,190.05005	-0.00000964
		46	5230	5,230.05005	-0.00000957
		54	5270	5,270.07495	-0.00001422
		62	5310	5,310.07495	-0.00001412
		102	5510	5,510.05005	-0.00000908
		110	5550	5,550.07495	-0.00001350
		134	5670	5,670.07495	-0.00001322
		151	5755	5,755.07495	-0.00001302
		159	5795	5,795.05005	-0.00000864
	6V	38	5190	5,190.09985	-0.00001924
		46	5230	5,230.07495	-0.00001433
		54	5270	5,270.07495	-0.00001422
		62	5310	5,310.07495	-0.00001412
		102	5510	5,510.05005	-0.00000908
		110	5550	5,550.05005	-0.00000902
		134	5670	5,670.05005	-0.00000883
		151	5755	5,755.05005	-0.00000870
		159	5795	5,795.05005	-0.00000864

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Operation Mode	802.11 ac_VHT80	Test Date	2017.02.06
Temperature	:25	Test By	Pony
Humidity	:65 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	8.7V	42	5210	5,210.14990	-0.00002877
		58	5290	5,290.19995	-0.00003780
		106	5530	5,530.00000	0.00000000
		122	5610	5,610.19995	-0.00003564
		155	5775	5,775.00000	0.00000000
	6V	42	5210	5,210.30005	-0.00005759
		58	5290	5,290.14990	-0.00002834
		106	5530	5,530.15015	-0.00002715
		122	5610	5,610.25000	-0.00004456
		155	5775	5,775.30005	-0.00005196
25	7.6V	42	5210	5,210.34985	-0.00006715
		58	5290	5,290.09985	-0.00001888
		106	5530	5,530.15015	-0.00002715
		122	5610	5,609.80005	0.00003564
		155	5775	5,774.70020	0.00005191
55	8.7V	42	5210	5,210.65015	-0.00012479
		58	5290	5,290.84985	-0.00016065
		106	5530	5,530.05005	-0.00000905
		122	5610	5,610.10010	-0.00001784
		155	5775	5,775.14990	-0.00002596
	6V	42	5210	5,212.00000	-0.00038388
		58	5290	5,290.10010	-0.00001892
		106	5530	5,529.50000	0.00009042
		122	5610	5,610.15015	-0.00002676
		155	5775	5,774.80005	0.00003462

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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

PIFA antenna designs are used.

The antenna is designed with permanent attached and no consideration of replacement. Please see EUT photo and antenna spec. for details.

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

~ End of Report ~

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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