

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

## INTENTIONAL RADIATOR CERTIFICATION TO

### FCC PART 15 SUBPART E AND INDUSTRY CANADA RSS 247 REQUIREMENT

OF

**Applicant:** Razer Inc.  
 201 3rd Street, Suite 900, San Francisco, CA 94103, USA

**Product Name:** Smart Phone

**Brand Name:** RAZER

**Model No.:** RZ35-0215

**Model Difference:** N/A

**FCC ID:** RWO-RZ350215

**IC:** 8092D- RZ350215

**Report No.:** E2/2017/80126

**FCC Rule Part:** §15.407, Cat: NII

**IC Rule Part:** RSS-247 issue 2 Feb. 2017

**Issue Date:** Oct. 03, 2017

**Date of Test:** Aug. 30, 2017 ~ Sep. 28, 2017

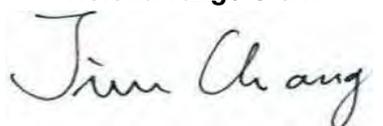
**Date of EUT Received:** Aug. 30, 2017

**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.

**Prepared By:** 

Violetta Tang / Clerk

**Approved By:** 

Jim Chang / Asst. Manager



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## Revision History

Report Number	Revision	Description	Issue Date
E2/2017/80126	Rev.00	Initial creation of document	Oct. 03, 2017

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# 1 GENERAL INFORMATION

## 1.1 Product Description

General:

Product Name:	Smart Phone	
Brand Name:	RAZER	
Model No.:	RZ35-0215	
Model Difference:	N/A	
Product SW/HW version:	N/A / DVT	
Radio SW/HW version:	N/A / N/A	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
USB Cable:	Mode No.: RC30-02150700-0000, Supplier: Razer	
Audio Dongle:	Mode No.: RC30-021505, Supplier: Razer	
Power Supply:	3.85Vdc from Rechargeable Li-ion Battery or 5V/9V/12V by AC/DC Power Adapter	
	Battery:	Mode No.: RC30-0215, Supplier: Razer
	Adapter:	Mode No.: RC30-021501, Supplier: Razer

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**FCC WLAN 5GHz:**

Wi-Fi	Frequency Range	Channels	Avg. Power (dBm)	Modulation Technology
11a_20	5150~5250	4	17.94	OFDM
	5250~5350	4	17.99	
	5470~5725	11	18.20	
	5725-5850	5	18.21	
11n_HT / ac_VHT 20M	5150~5250	4	HT: 17.38	OFDM
	5250~5350	4	HT: 17.39	
	5470~5725	11	HT: 17.35	
	5725-5850	5	HT: 17.40	
11n_HT / ac_VHT 40M	5150~5250	2	HT: 18.03	OFDM
	5250~5350	2	HT: 17.73	
	5470~5725	5	HT: 17.97	
	5725-5850	2	HT: 18.05	
11ac VHT80M	5150~5250	1	16.03	OFDM
	5250~5350	1	16.07	
	5470~5725	2	15.77	
	5725-5850	1	15.91	

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**IC WLAN 5GHz:**

Wi-Fi	Frequency Range	Channels	Avg. or EIRP	Rated Power(dBm)	Modulation Technology
11a	5180~5240	4	EIRP	14.35	OFDM
	5260~5320	4	Avg.	17.80	
	5500~5580	5	Avg.	17.96	
	5660~5700	3	Avg.	17.98	
	5745~5825	5	Avg.	17.99	
11n_HT / ac_VHT 20M	5180~5240	4	EIRP	HT: 13.79	OFDM
	5260~5320	4	Avg.	HT: 16.98	
	5500~5580	5	Avg.	HT: 16.81	
	5660~5700	3	Avg.	HT: 16.94	
	5745~5825	5	Avg.	HT: 16.99	
11n_HT / ac_VHT 40M	5190~5230	2	EIRP	HT: 14.44	OFDM
	5270~5310	2	Avg.	HT: 14.82	
	5510~5550	2	Avg.	HT: 14.99	
	5670~5670	1	Avg.	HT: 14.63	
	5755~5795	2	Avg.	HT: 14.70	
11ac VHT80M	5210~5210	1	EIRP	12.44	OFDM
	5290~5290	1	Avg.	14.92	
	5530~5530	1	Avg.	14.62	
	5775~5775	1	Avg.	14.75	
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 – 72.2Mbps 802.11 n_40MHz: 13.5 - 150.0Mbps 802.11 ac_20MHz: 6.5 –86.7Mbps 802.11 ac_40MHz: 13.5 -200.0Mbps 802.11 ac_80MHz: 29.3 – 433.3Mbps			
Antenna Designation:		PIFA Antenna, 5150~5250MHz Gain: -6.6dBi (Main) / -8.3dBi (Aux) 5250~5350MHz Gain: -7.4dBi (Main) / -9dBi (Aux) 5470~5725MHz Gain: -5.2dBi (Main) / -9.4dBi (Aux) 5725~5850MHz Gain: -6.2dBi (Main) / -9.5dBi (Aux)			

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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 662911 D01 Multiple Transmitter Output

FCC KDB 644545 D03 Guidance for IEEE 802.11ac v01

RSS-247 issue 2 Feb. 2017

RSS-Gen issue4 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 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 1dB, and 10dB attenuator (SISO, with cable loss 4dB, and 10dB attenuator (MIMO).

#### Offset :

SISO mode offset = RF cable loss (dB)+ attenuation factor(dB) =11(dB)

MIMO mode offset = RF cable loss (dB)+ attenuation factor(dB) =14(dB)

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## 2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission



Fig. 2-3 Conducted (Antenna Port) Emission



Fig. 2-2 AC Power Line Conducted Emission

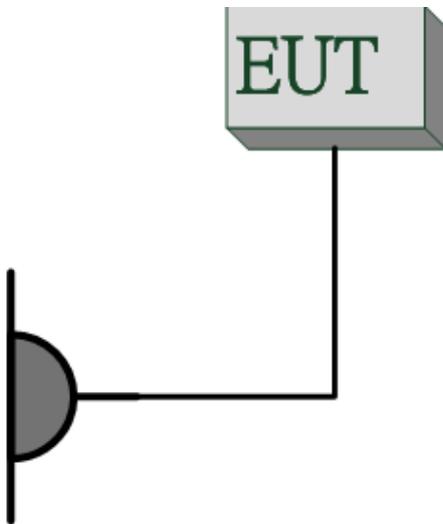


Table 2-1 Equipment Used in Tested System

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	MY53140006	N/A	N/A
3.	Notebook	Lenovo	L430	PK-OCGFF	N/A	N/A

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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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530 MHz	122	5610 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.
4. The given UE is pre-scanned among 802.11n and ac modes, and 802.11n yields the highest reading that generates the highest emission.
5. The given UE is pre-scanned among SISO Main, SISO Aux and MIMO modes, and MIMO mode yields the highest reading that generates the highest emission. Therefore, 802.11ac+MIMO as the mode of radiated test configuration is chosen to carry out the relevantly mandatory test items.

#### RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO
802.11a	5500~5720	100 to 140	100,116,140	OFDM	6	MIMO
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS8	MIMO
RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MIMO
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MIMO
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO

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MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5500~5720	100 to 144	100,116,140	OFDM	6	MIMO
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5510~5710	102 to 142	102,110,134	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5610	106 to 122	106,122	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MIMO
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS8	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS8	MIMO

**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.

**ANTENNA PORT CONDUCTED MEASUREMENT:**

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MIMO
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MIMO
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO
802.11a	5500~5720	100 to 144	100,116,140,144	OFDM	6	MIMO
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5510~5710	102 to 142	102,110,134,142	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5610	106 to 122	106,122	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MIMO
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS8	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS8	MIMO

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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 : <b>Vertical</b> )	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 : <b>Horizontal</b> )	9kHz-30MHz: +/-2.87dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

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

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## 6 CONDUCTED EMISSION TEST

### 6.1 Standard Applicable

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

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

Note

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

### 6.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI 7	100950	12/12/2016	12/11/2017
Coaxial Cables	N/A	N30N30-1042-1 50cm	N/A	08/30/2017	08/29/2018
LISN	Schwarzbeck	NSLK 8127	8127-648	06/13/2017	06/12/2018
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

### 6.3 EUT Setup

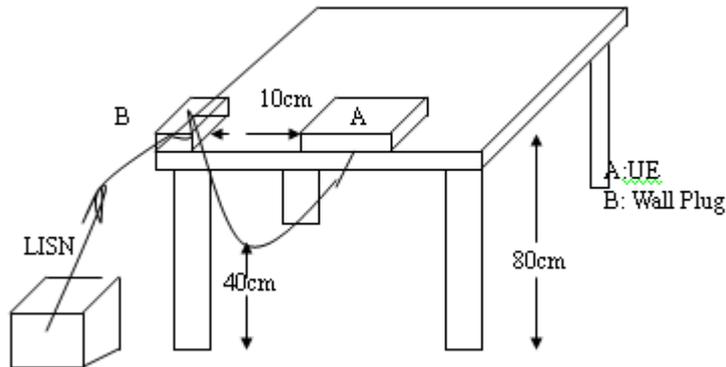
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz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

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## 6.4 Test SET-UP



## 6.5 Measurement Procedure

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

## 6.6 Measurement Result

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

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

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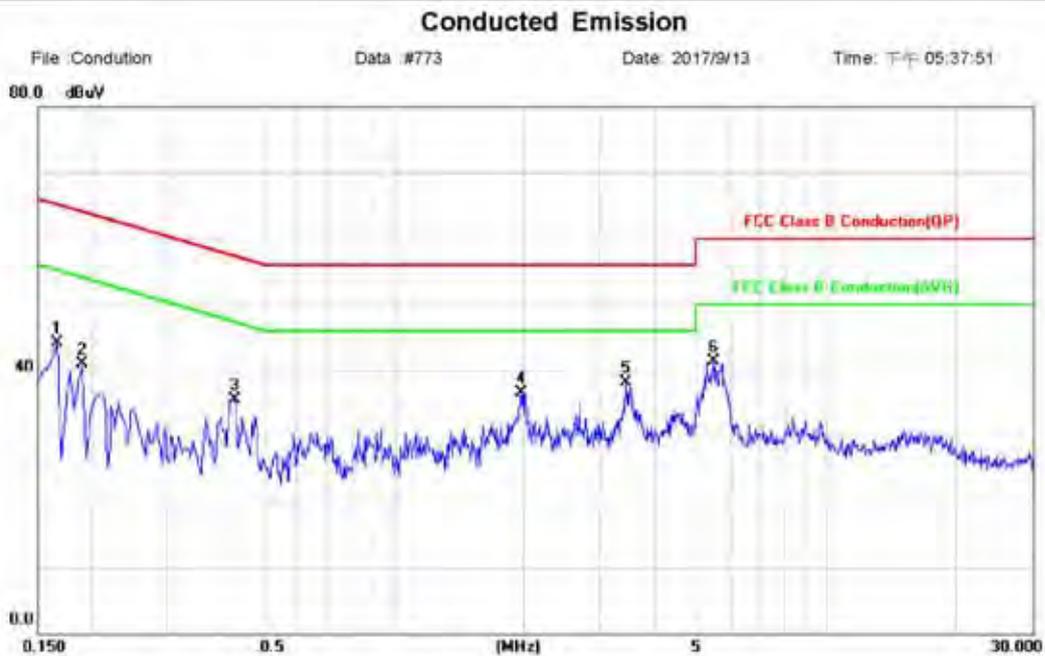
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## AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode		Test Date:	Sep. 13, 2017	
Temperature:	23	Humidity:	71 %	Test By:	Jerry
				Phase:	L1

Site : Conduction Room	Phase: L1	Temperature: 23 ℃
Limit: FCC Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 71 %
Mode:		
Note:		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1660	24.40	19.65	44.05	65.16	-21.11	peak	
2		0.1900	21.24	19.64	40.88	64.04	-23.16	peak	
3		0.4300	15.56	20.01	35.57	57.25	-21.68	peak	
4		1.9740	15.99	20.54	36.53	56.00	-19.47	peak	
5	*	3.4380	17.70	20.33	38.03	56.00	-17.97	peak	
6		5.5020	21.21	20.09	41.30	60.00	-18.70	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:

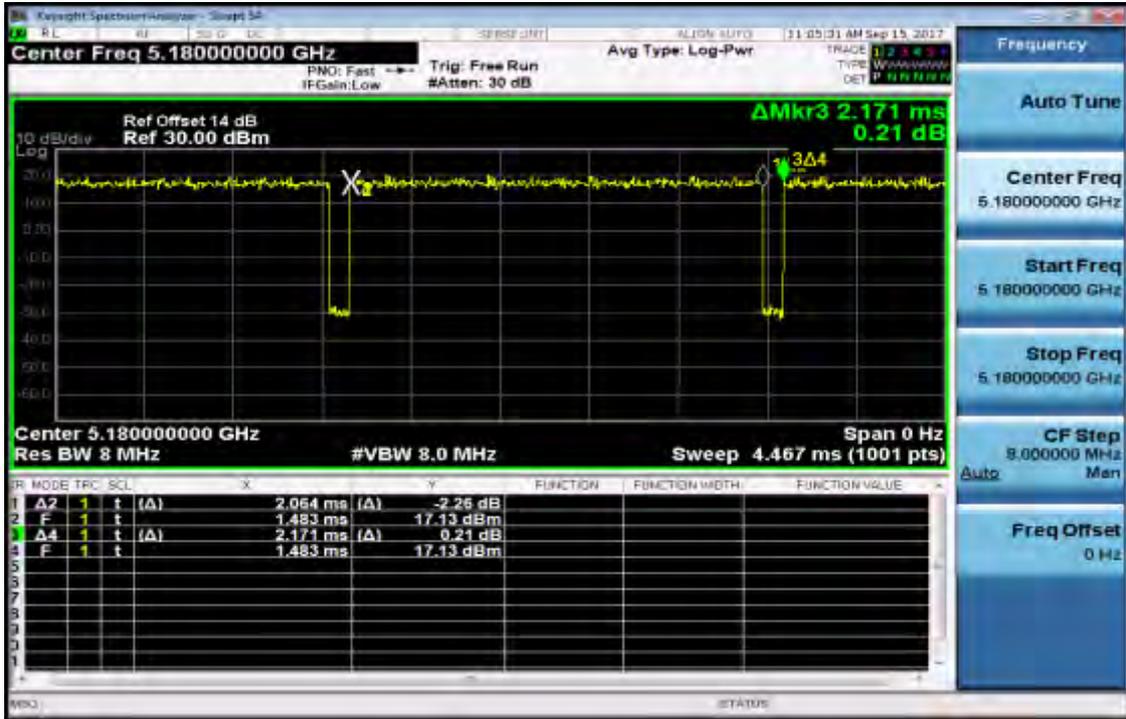
Mode	Duty Cycle (%)	Duty Factor (dB) =10*log ( 1/Duty Cycle )
802.11a	95.07	0.22
802.11n_20	91.00	0.41
802.11ac_20	94.70	0.24
802.11n_40	78.48	1.05
802.11ac_40	89.69	0.47
802.11ac_80	76.65	1.15

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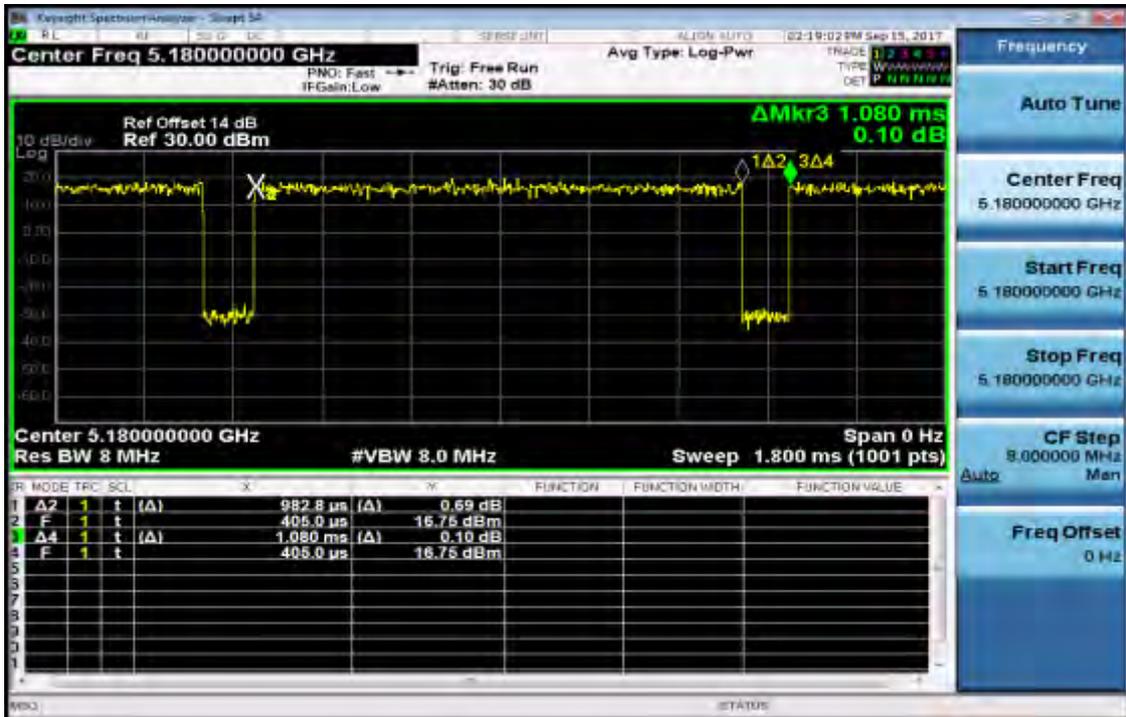
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## DUTY CYCLE TEST SIGNAL Measurement Result 802.11a



## 802.11n HT20

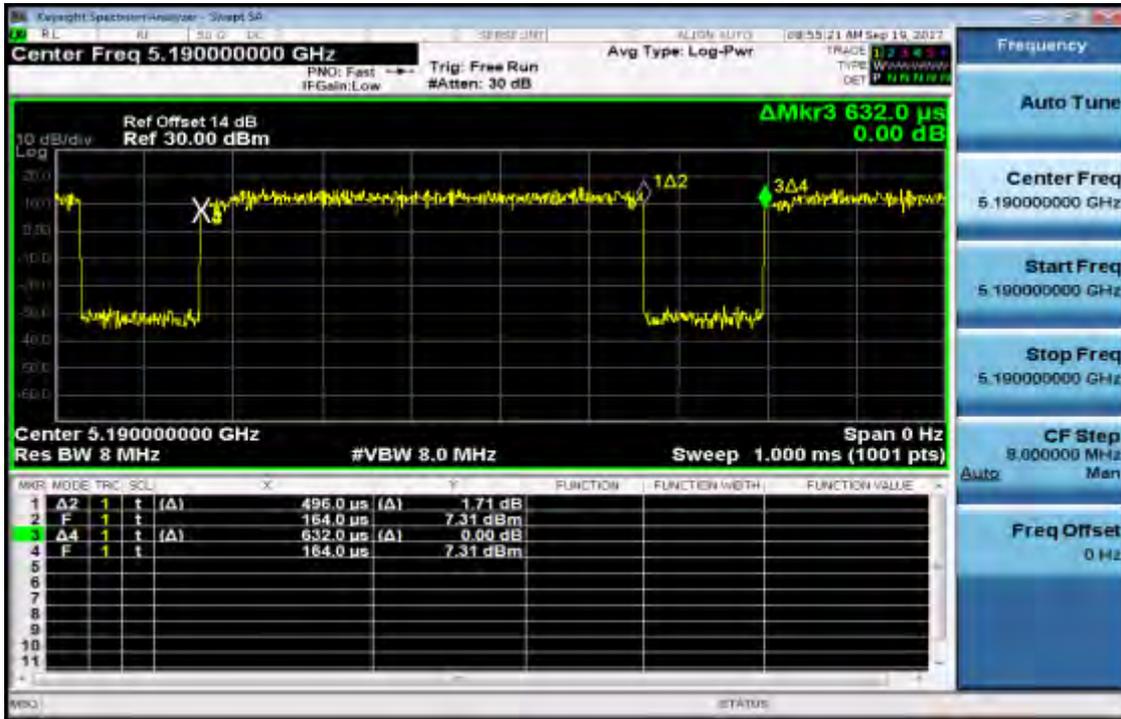


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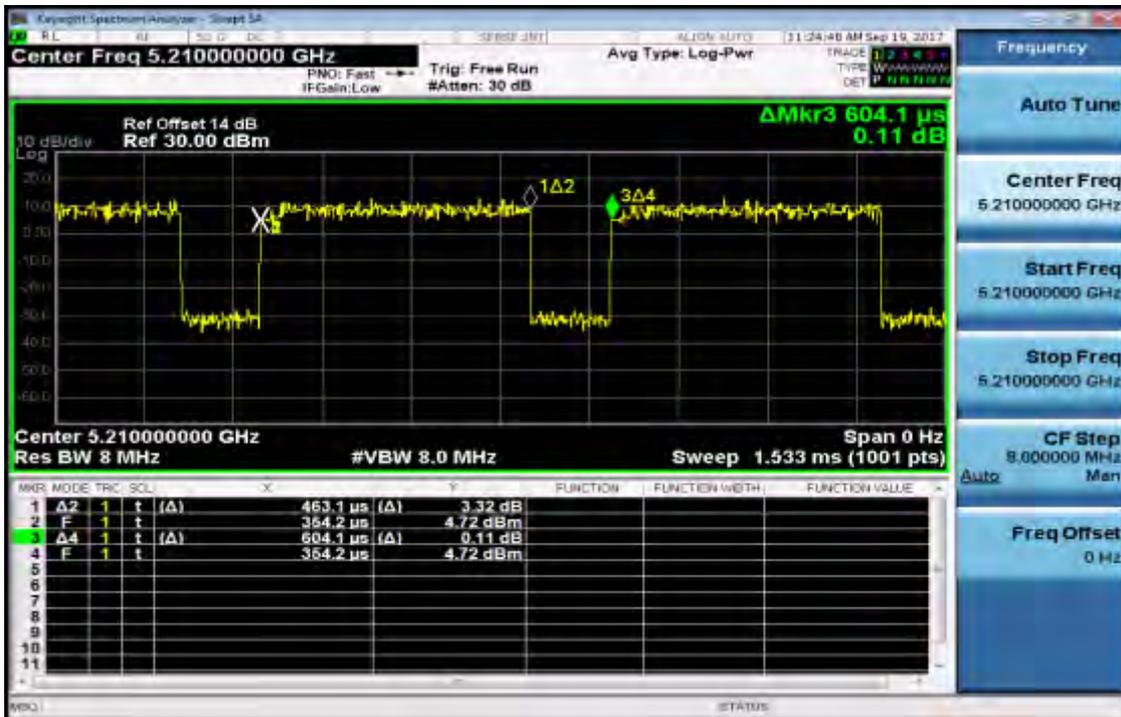
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### 802.11n HT 40



### 802.11 ac VHT 80



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## 8 26DB & 6DB EMISSION BANDWIDTH MEASUREMENT

### 8.1 Standard Applicable

There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C.

The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3

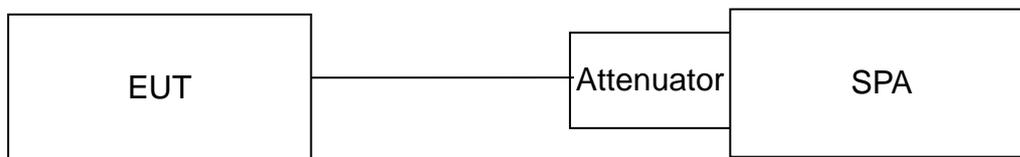
### 8.2 Measurement Procedure

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

### 8.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2016	12/11/2017
DC Block	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018

### 8.4 Test Set-up



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## 8.5 Measurement Result

### 26dB and 6dB Bandwidth

802.11a\_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.58	13.341	5180	21.75	13.375
5220	22.88	13.595	5220	23.44	13.700
5240	22.40	13.502	5240	22.86	13.591
5260	23.42	13.696	5260	23.48	13.707
5300	23.02	13.621	5300	24.46	13.885
5320	21.56	13.336	5320	21.45	13.314
5500	23.55	13.720	5500	21.41	13.306
5580	21.55	13.334	5580	22.96	13.610
5700	22.45	13.512	5700	21.47	13.318

802.11a\_Aux1

802.11a\_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.97	12.033	5745	15.12	11.796
5785	15.94	12.025	5785	15.47	11.895
5825	15.82	11.992	5825	16.29	12.119

802.11a\_Aux1

802.11a\_Main

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.49	< 5250
5745	5736.09	> 5725

802.11a\_Aux1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.37	< 5250
5745	5736.72	> 5725

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802.11n\_HT20\_Main

802.11n\_HT20\_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	23.13	13.642	5180	23.54	13.718
5220	22.96	13.610	5220	22.83	13.585
5240	22.74	13.568	5240	22.81	13.581
5260	22.82	13.583	5260	23.71	13.749
5300	23.31	13.675	5300	23.26	13.666
5320	23.23	13.660	5320	22.90	13.598
5500	22.09	13.442	5500	22.83	13.585
5580	22.76	13.572	5580	22.87	13.593
5700	23.14	13.644	5700	23.85	13.775

802.11n\_HT20\_Main

802.11n\_HT20\_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.70	11.959	5745	16.89	12.276
5785	16.83	12.261	5785	16.89	12.276
5825	15.66	11.948	5825	16.96	12.294

802.11n\_HT20\_Main

802.11n\_HT20\_Aux1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)	Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.94	< 5250	5240	5248.97	< 5250
5745	5736.78	> 5725	5745	5736.12	> 5725

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802.11n\_HT40\_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	41.35	16.165	5190	41.07	16.135
5230	41.11	16.139	5230	41.10	16.138
5270	41.33	16.163	5270	40.70	16.096
5310	40.55	16.080	5310	41.63	16.194
5510	41.13	16.142	5510	41.40	16.170
5550	<b>40.45</b>	16.069	5550	41.16	16.145
5670	40.28	16.051	5670	40.91	16.118

802.11n\_HT40\_Aux1

802.11n\_HT40\_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	36.33	15.603	5755	35.72	15.529
5795	36.28	15.597	5795	35.15	15.459

802.11n\_HT40\_Aux1

802.11n\_HT40\_Main

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5230	5248.17	< 5250
5755	5736.92	> 5725

802.11n\_HT40\_Aux1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5230	5248.22	< 5250
5755	5736.97	> 5725

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802.11ac\_VHT80\_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	82.12	19.144	5210	82.98	19.190
5290	82.66	19.173	5290	82.46	19.162
5530	82.78	19.179	5530	83.44	19.214
5610	82.77	19.179	5610	81.70	19.122

802.11ac\_VHT80\_Aux1

802.11ac\_VHT80\_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.19	18.762	5775	75.07	18.755

802.11ac\_VHT80\_Aux1

802.11ac\_VHT80\_Main

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5210	5247.80	< 5250
5775	5736.97	> 5725

802.11n\_HT80\_Aux1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5210	5248.97	< 5250
5775	5737.27	> 5725

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**99% Bandwidth**
**802.11a\_Main**
**802.11a\_Aux1**

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.627	12.208	5180	16.668	12.219
5220	16.620	12.206	5220	16.627	12.208
5240	16.652	12.215	5240	16.681	12.222
5260	16.662	12.217	5260	16.655	12.215
5300	16.624	12.207	5300	16.645	12.213
5320	16.658	12.216	5320	16.662	12.217
5500	16.596	12.200	5500	16.668	12.219
5580	16.663	12.218	5580	16.607	12.203
5700	16.634	12.210	5700	16.628	12.208

**802.11a\_Main**
**802.11a\_Aux1**

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.65	12.214	5745	16.62	12.207
5785	16.65	12.214	5785	16.60	12.201
5825	16.59	12.199	5825	16.59	12.198

**802.11n\_HT20\_Main**
**802.11n\_HT20\_Aux1**

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	17.754	12.493	5180	17.786	12.501
5220	17.807	12.506	5220	17.799	12.504
5240	17.812	12.507	5240	17.871	12.521
5260	17.823	12.510	5260	17.790	12.502
5300	17.819	12.509	5300	17.838	12.513
5320	17.742	12.490	5320	17.852	12.517
5500	17.779	12.499	5500	17.799	12.504
5580	17.761	12.495	5580	17.813	12.507
5700	17.771	12.497	5700	17.787	12.501

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802.11n\_HT20\_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.74	12.490	5745	17.76	12.494
5785	17.81	12.506	5785	17.77	12.496
5825	17.77	12.497	5825	17.78	12.499

802.11n\_HT20\_Aux1

802.11n\_HT40\_Main

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	36.096	15.575	5190	36.099	15.575
5230	36.129	15.579	5230	36.110	15.576
5270	36.089	15.574	5270	36.142	15.580
5310	36.133	15.579	5310	36.135	15.579
5510	36.108	15.576	5510	36.151	15.581
5550	36.080	15.573	5550	36.133	15.579
5670	36.048	15.569	5670	36.116	15.577

802.11n\_HT40\_Aux1

802.11n\_HT40\_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	36.10	15.574	5755	36.13	15.578
5795	36.10	15.575	5795	36.11	15.576

802.11n\_HT40\_Aux1

802.11ac\_VHT80\_Main

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	75.510	18.780	5210	75.527	18.781
5290	75.488	18.779	5290	75.532	18.781
5530	75.650	18.788	5530	75.507	18.780

802.11ac\_VHT80\_Aux1

802.11ac\_VHT80\_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.68	18.790	5775	75.60	18.785

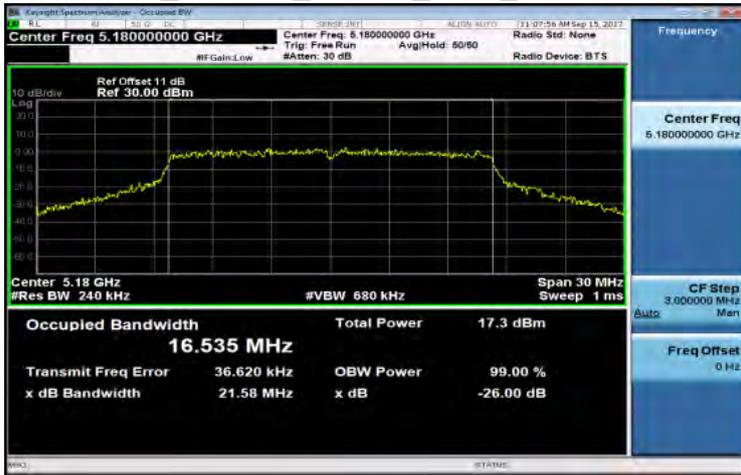
802.11ac\_VHT80\_Aux1

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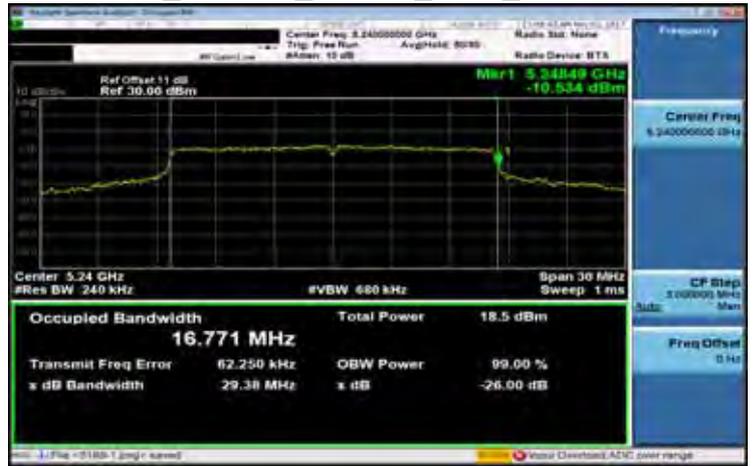
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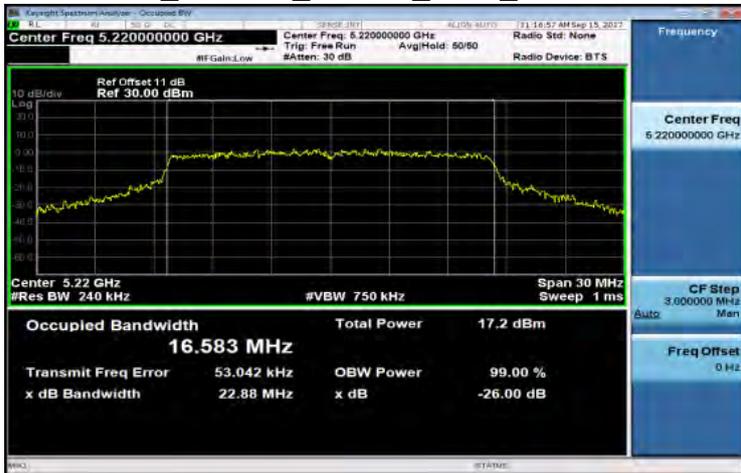
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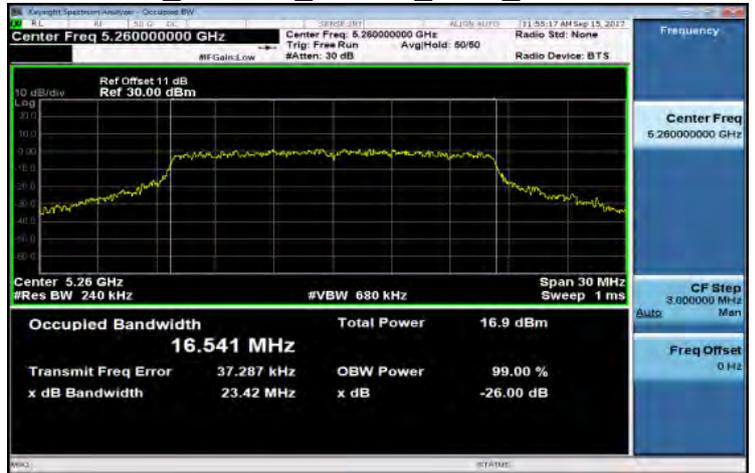
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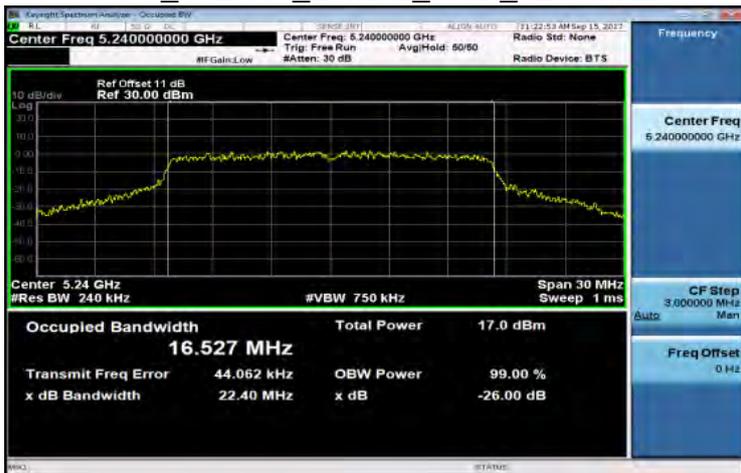
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FCC\_802.11a\_20MHz\_Main\_5260MHz



FCC\_802.11a\_20MHz\_Main\_5240MHz



FCC\_802.11a\_20MHz\_Main\_5300MHz

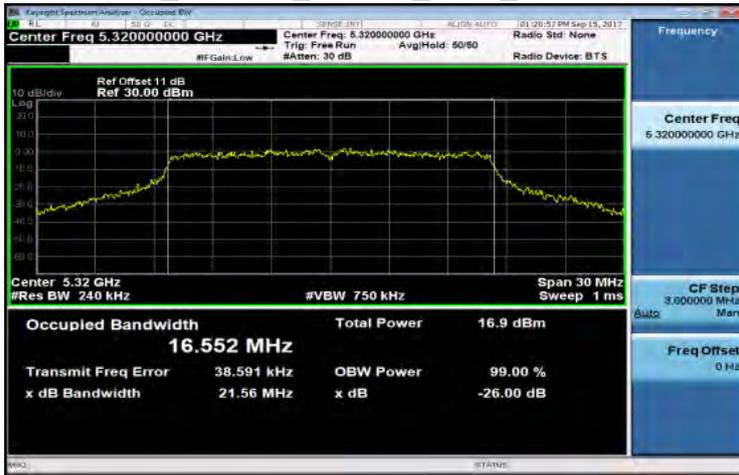


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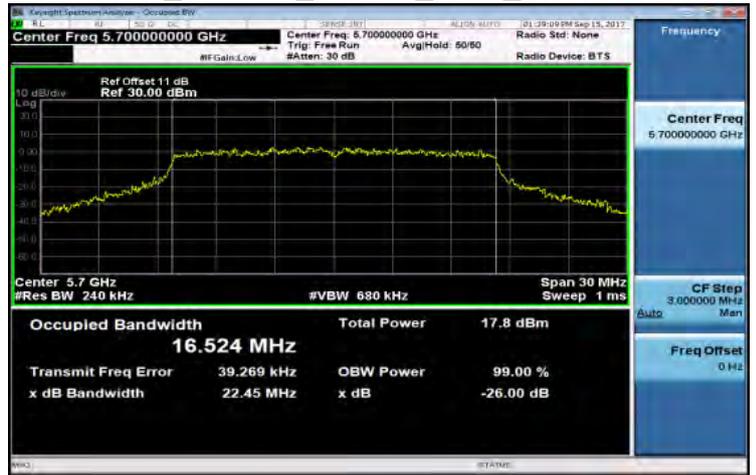
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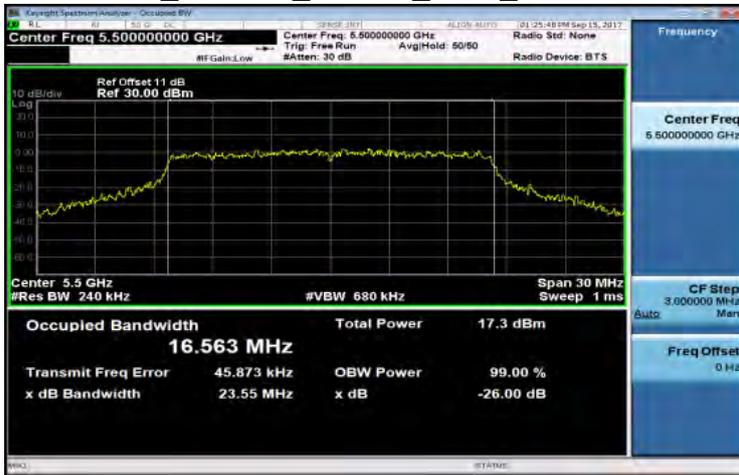
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FCC\_802.11a\_20MHz\_Main\_5700MHz



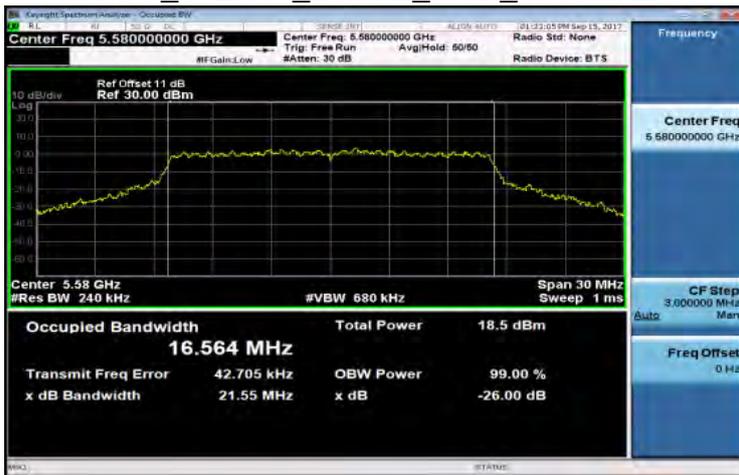
FCC\_802.11a\_20MHz\_Main\_5500MHz



FCC\_802.11a\_20MHz\_Main\_5745MHz



FCC\_802.11a\_20MHz\_Main\_5580MHz



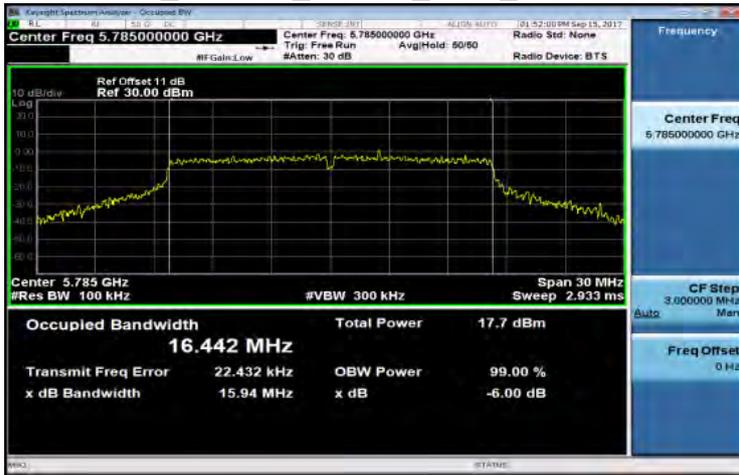
FCC\_802.11a\_20MHz\_Main\_5745MHz



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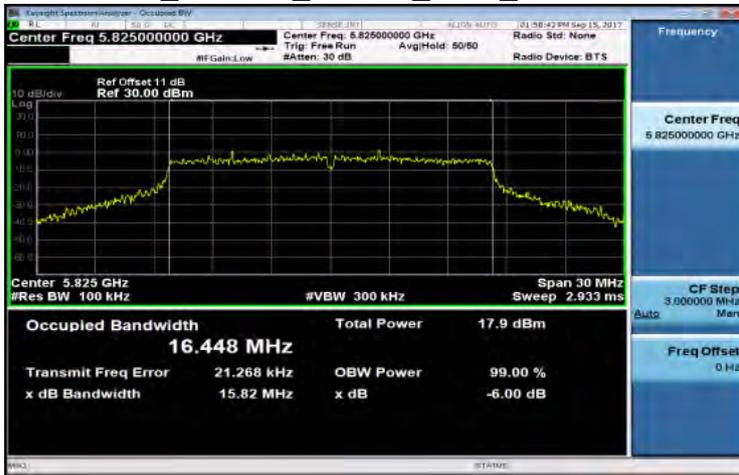
FCC\_802.11a\_20MHz\_Main\_5785MHz



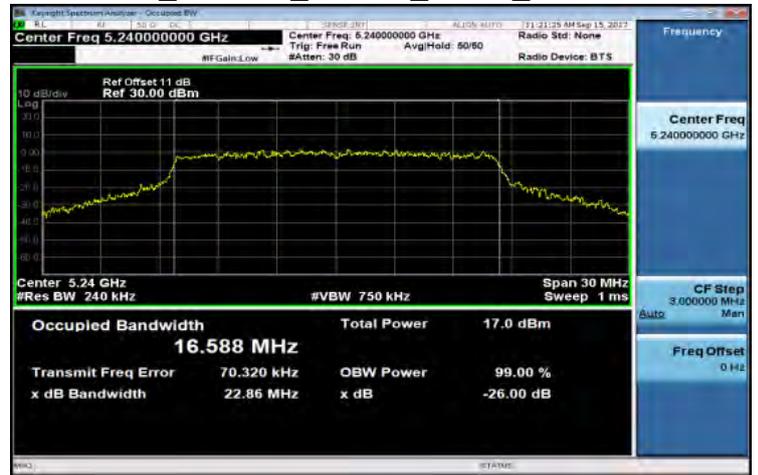
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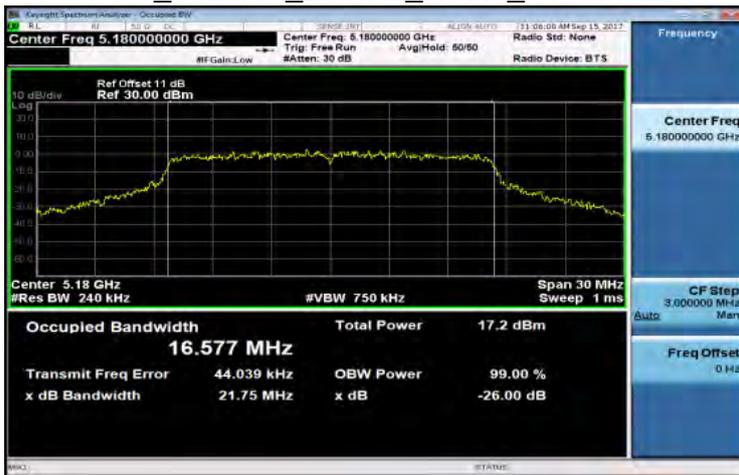
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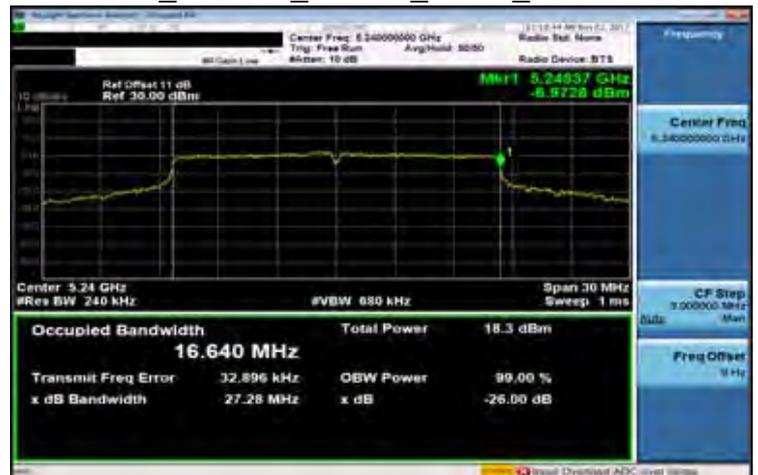
FCC\_802.11a\_20MHz\_AUX1\_5240MHz



FCC\_802.11a\_20MHz\_AUX1\_5180MHz



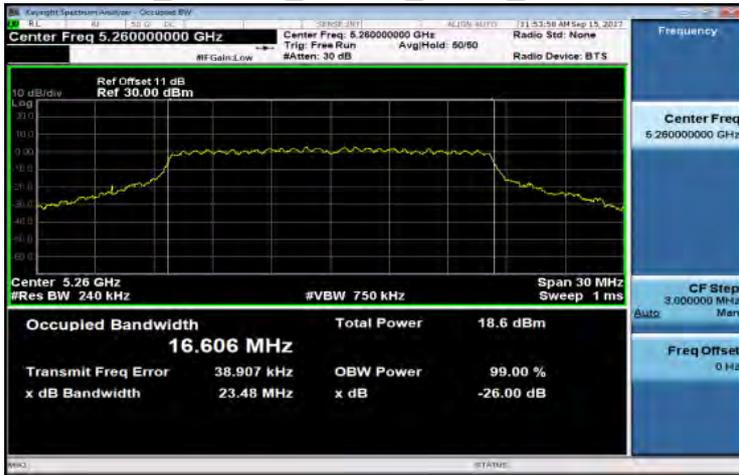
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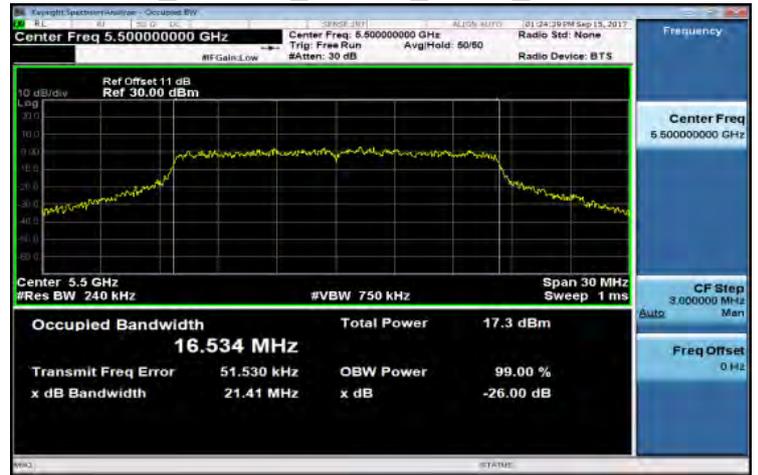
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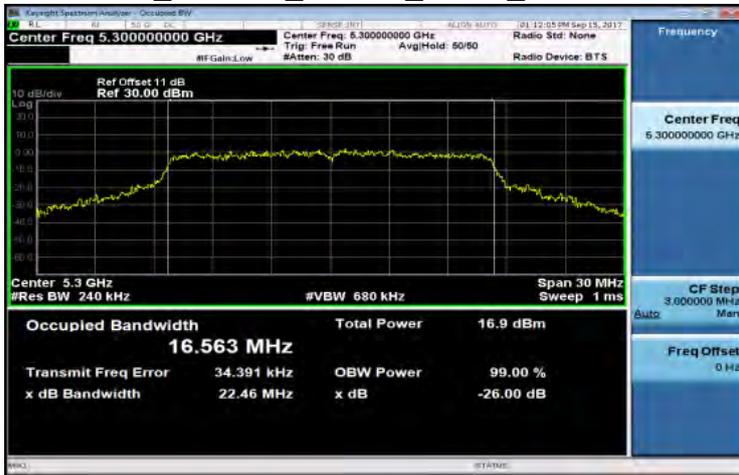
FCC\_802.11a\_20MHz\_AUX1\_5260MHz



FCC\_802.11a\_20MHz\_AUX1\_5500MHz



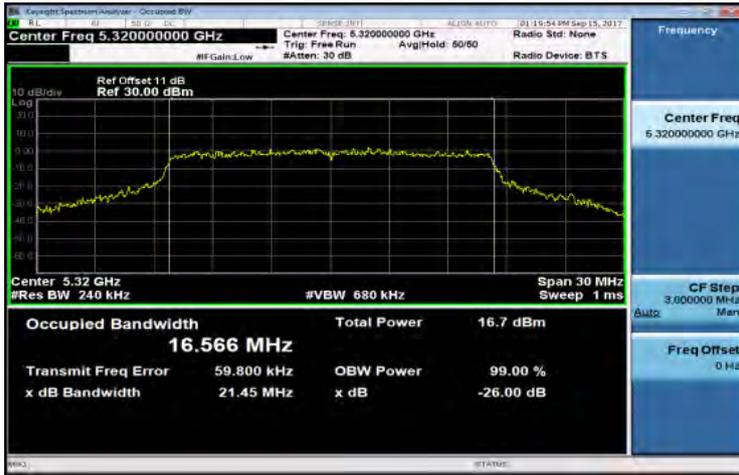
FCC\_802.11a\_20MHz\_AUX1\_5300MHz



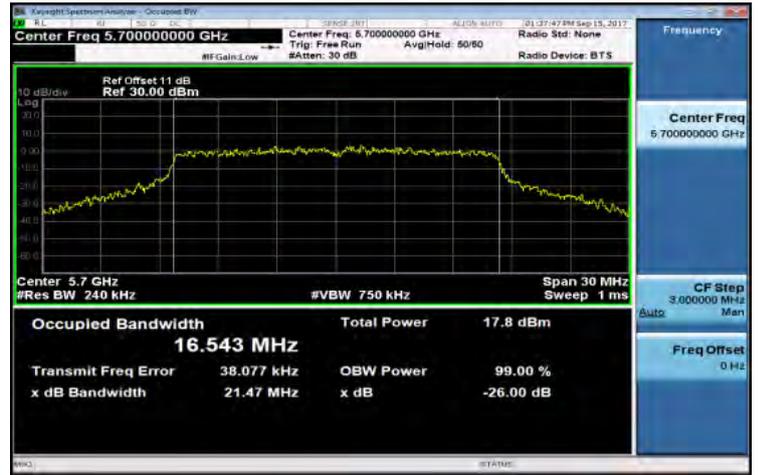
FCC\_802.11a\_20MHz\_AUX1\_5580MHz



FCC\_802.11a\_20MHz\_AUX1\_5320MHz



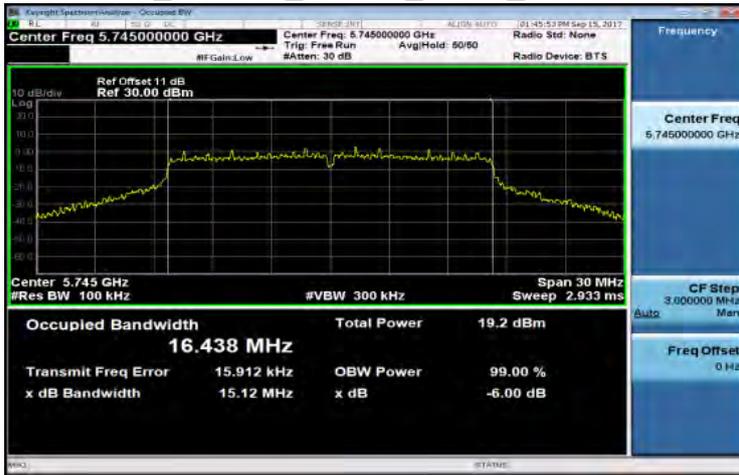
FCC\_802.11a\_20MHz\_AUX1\_5700MHz



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FCC\_802.11a\_20MHz\_AUX1\_5745MHz



FCC\_802.11a\_20MHz\_AUX1\_5825MHz



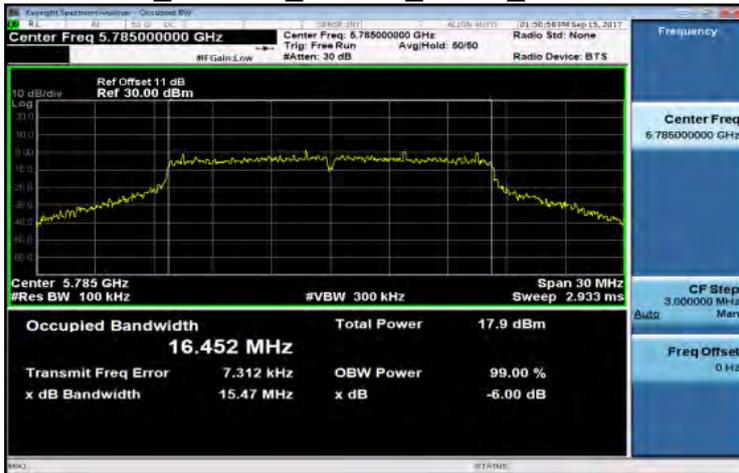
FCC\_802.11a\_20MHz\_AUX1\_5745MHz



FCC\_802.11n\_20MHz\_Main\_5180MHz



FCC\_802.11a\_20MHz\_AUX1\_5785MHz



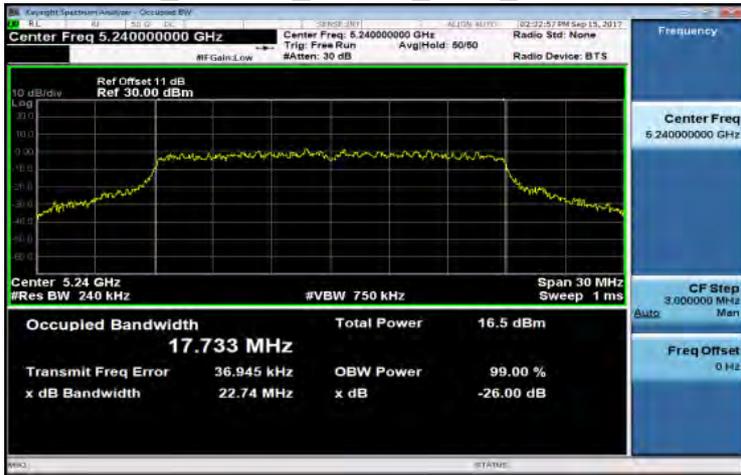
FCC\_802.11n\_20MHz\_Main\_5220MHz



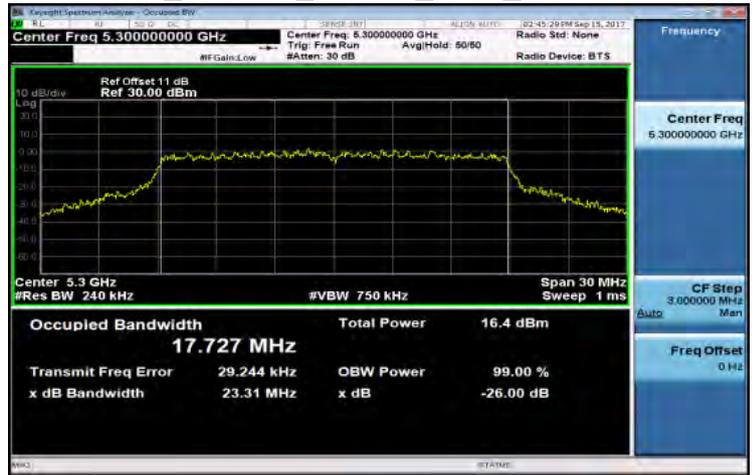
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FCC\_802.11n\_20MHz\_Main\_5240MHz



FCC\_802.11n\_20MHz\_Main\_5300MHz



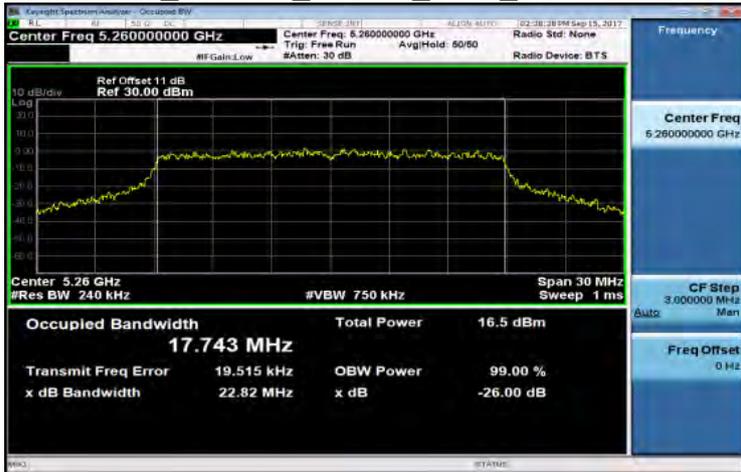
FCC\_802.11n\_20MHz\_Main\_5240MHz



FCC\_802.11n\_20MHz\_Main\_5320MHz



FCC\_802.11n\_20MHz\_Main\_5260MHz



FCC\_802.11n\_20MHz\_Main\_5500MHz

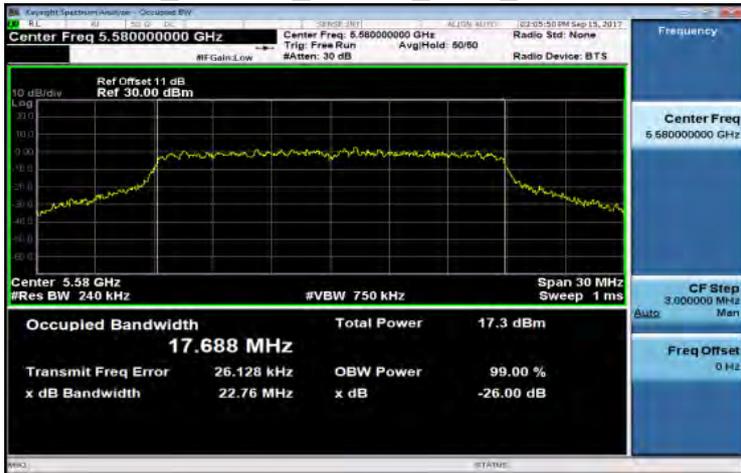


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FCC\_802.11n\_20MHz\_Main\_5580MHz



FCC\_802.11n\_20MHz\_Main\_5745MHz



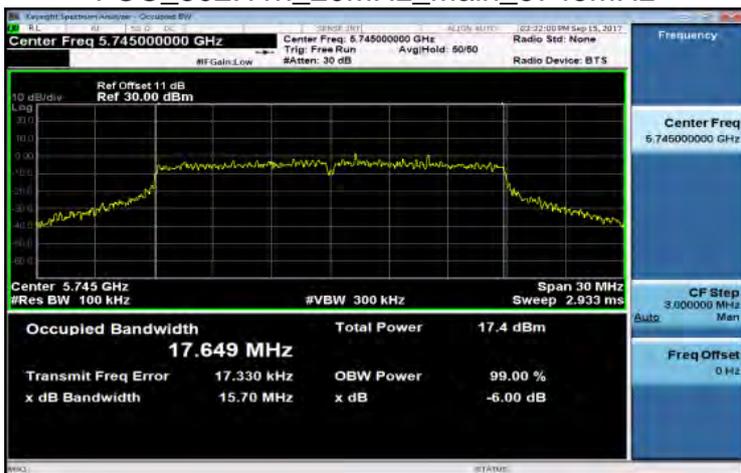
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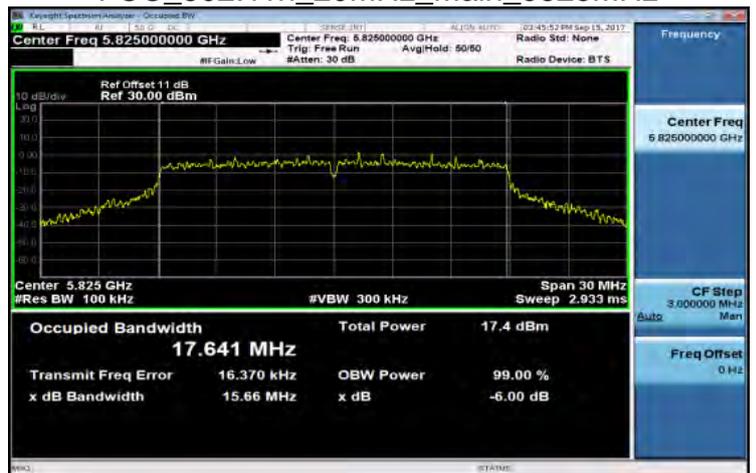
FCC\_802.11n\_20MHz\_Main\_5785MHz



FCC\_802.11n\_20MHz\_Main\_5745MHz



FCC\_802.11n\_20MHz\_Main\_5825MHz

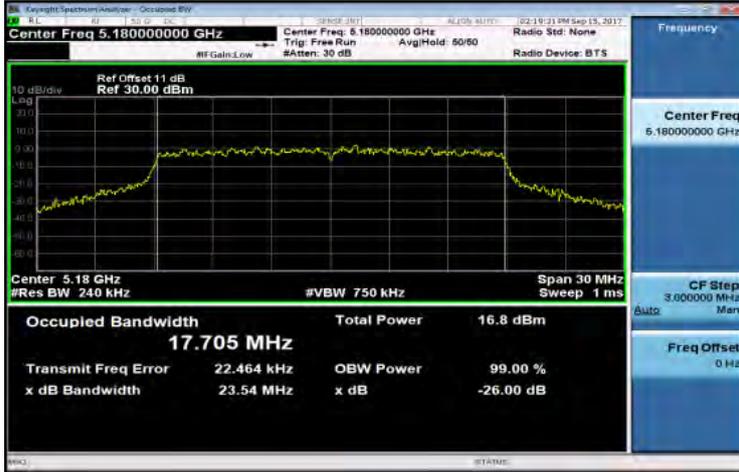


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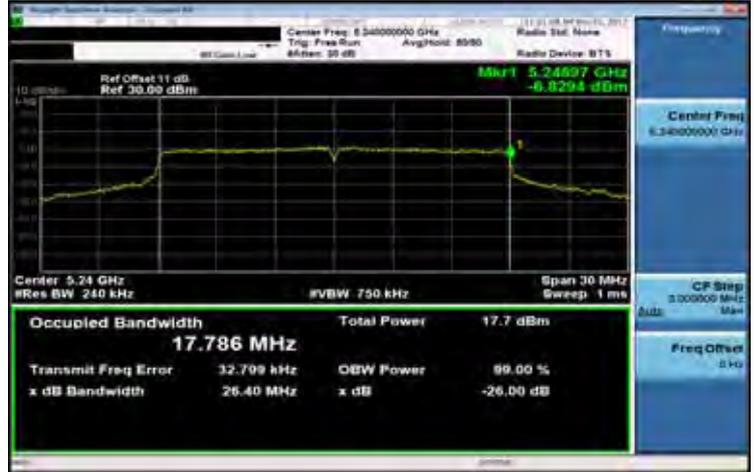
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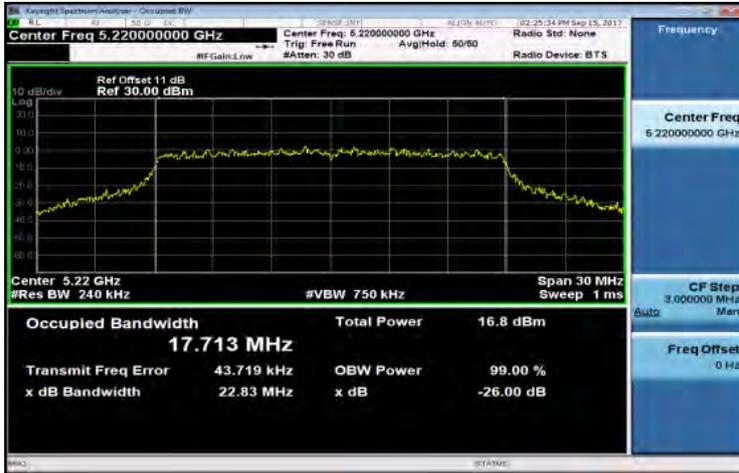
FCC\_802.11n\_20MHz\_AUX1\_5180MHz



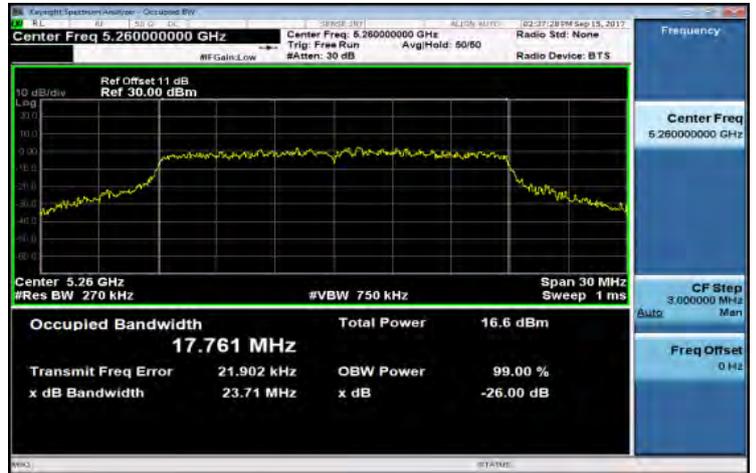
FCC\_802.11n\_20MHz\_AUX1\_5240MHz



FCC\_802.11n\_20MHz\_AUX1\_5220MHz



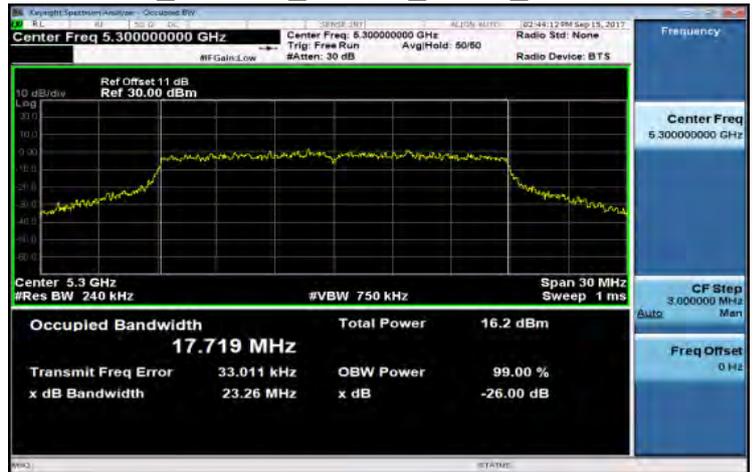
FCC\_802.11n\_20MHz\_AUX1\_5260MHz



FCC\_802.11n\_20MHz\_AUX1\_5240MHz



FCC\_802.11n\_20MHz\_AUX1\_5300MHz

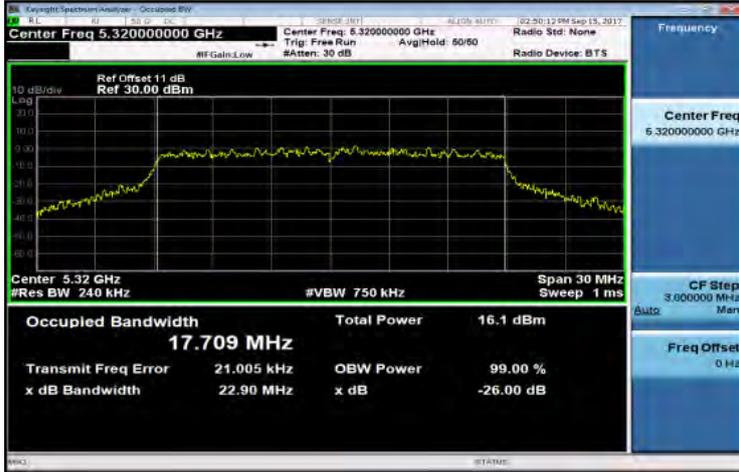


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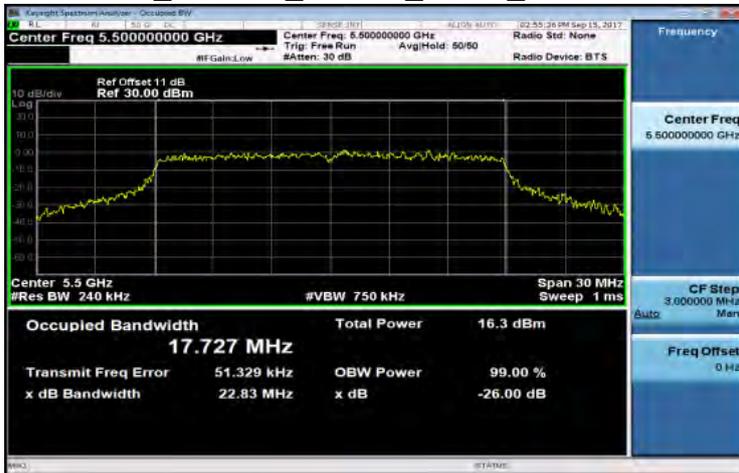
FCC\_802.11n\_20MHz\_AUX1\_5320MHz



FCC\_802.11n\_20MHz\_AUX1\_5700MHz



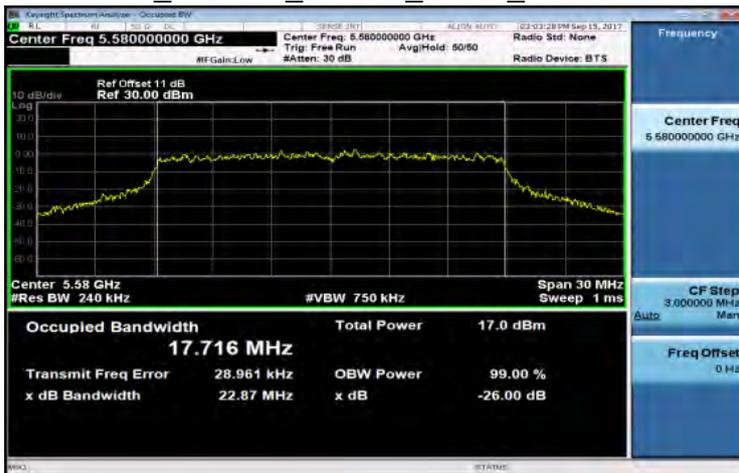
FCC\_802.11n\_20MHz\_AUX1\_5500MHz



FCC\_802.11n\_20MHz\_AUX1\_5745MHz



FCC\_802.11n\_20MHz\_AUX1\_5580MHz



FCC\_802.11n\_20MHz\_AUX1\_5745MHz

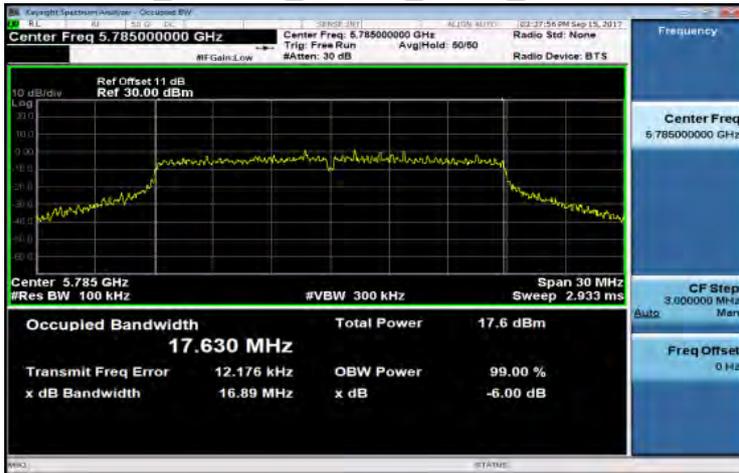


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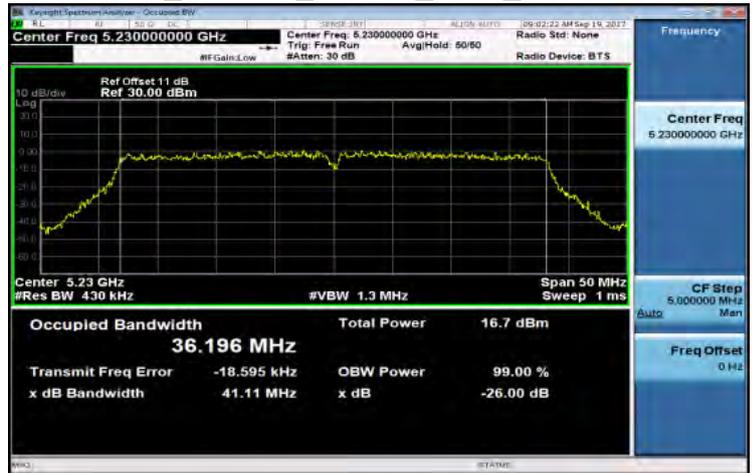
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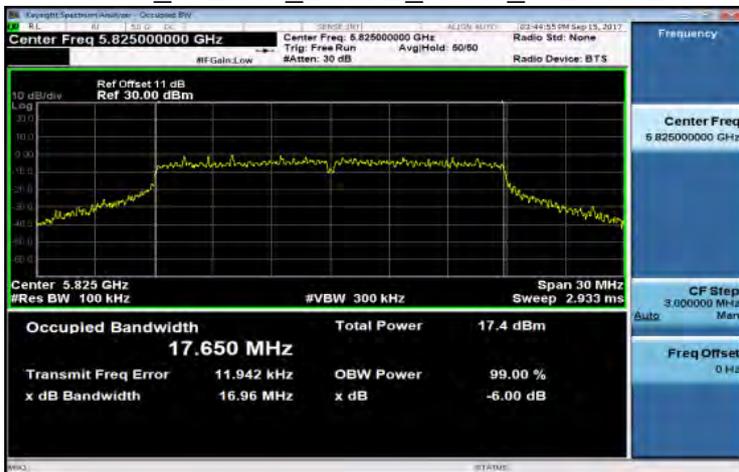
FCC\_802.11n\_20MHz\_AUX1\_5785MHz



FCC\_802.11n\_40MHz\_Main\_5230MHz



FCC\_802.11n\_20MHz\_AUX1\_5825MHz



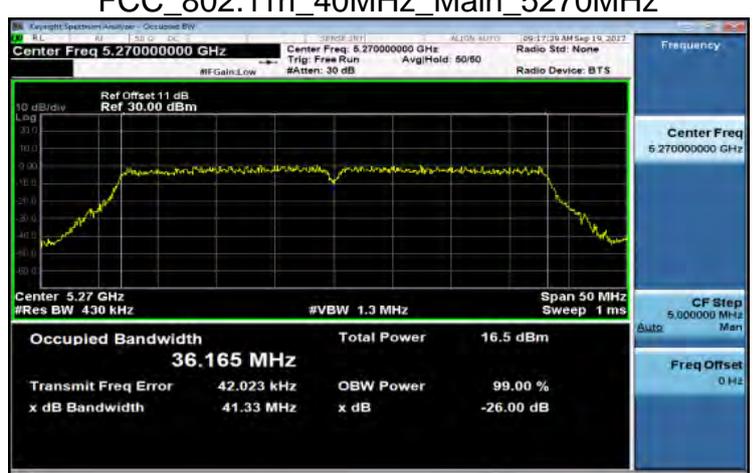
FCC\_802.11n\_40MHz\_Main\_5230MHz



FCC\_802.11n\_40MHz\_Main\_5190MHz



FCC\_802.11n\_40MHz\_Main\_5270MHz

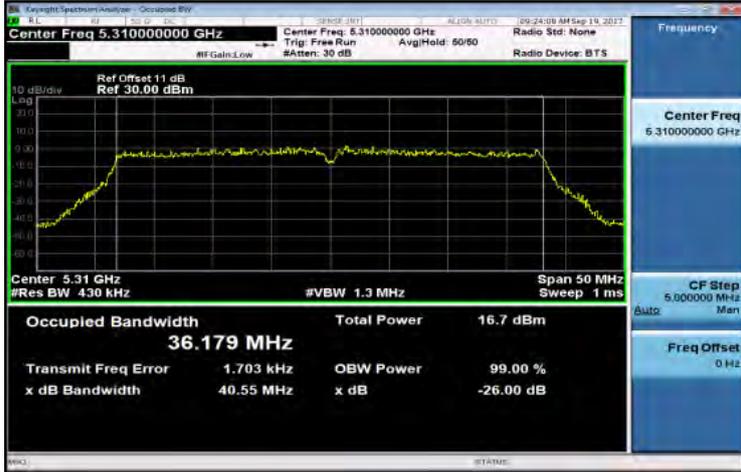


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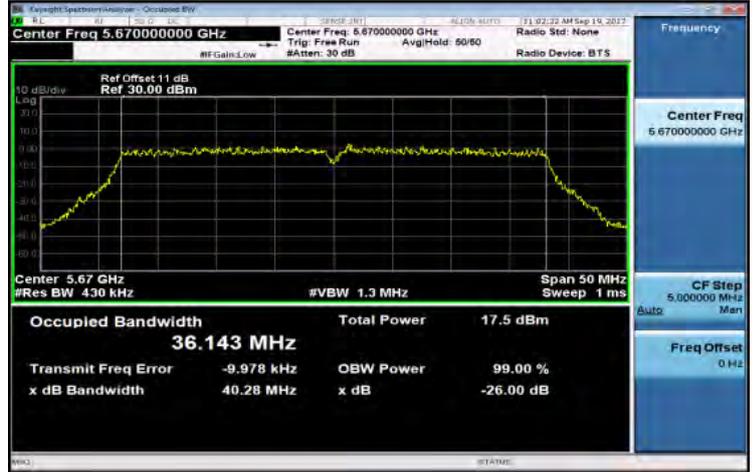
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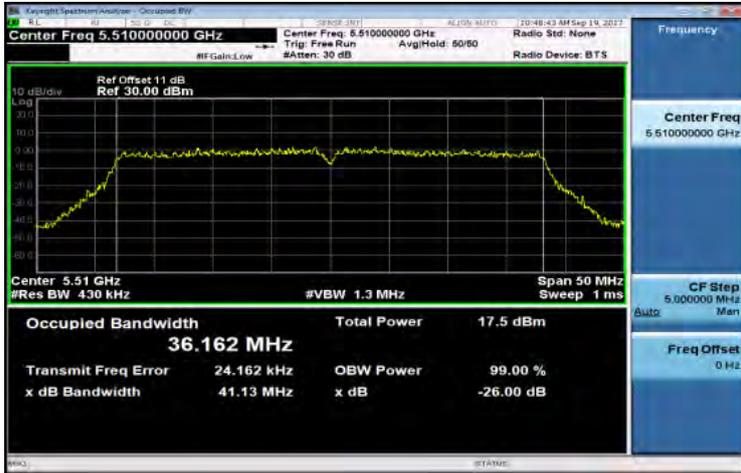
FCC\_802.11n\_40MHz\_Main\_5310MHz



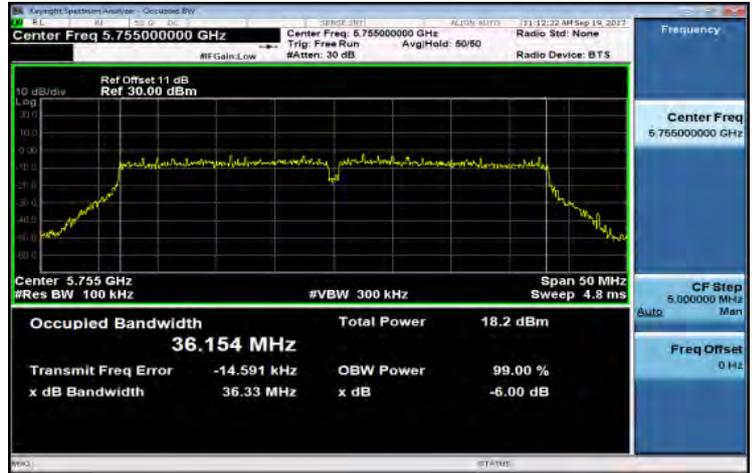
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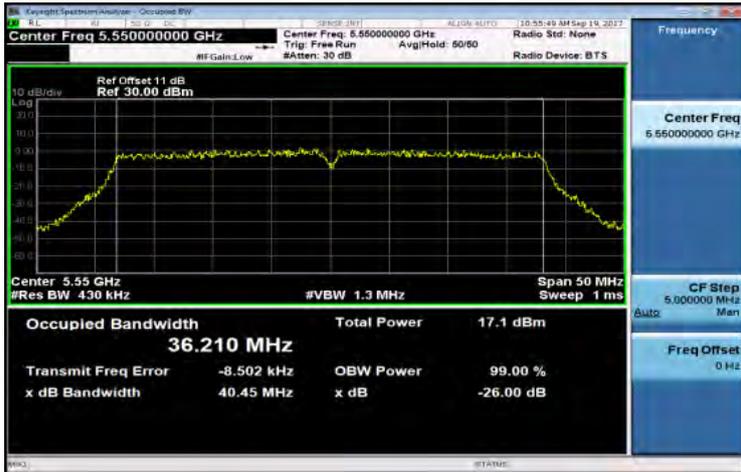
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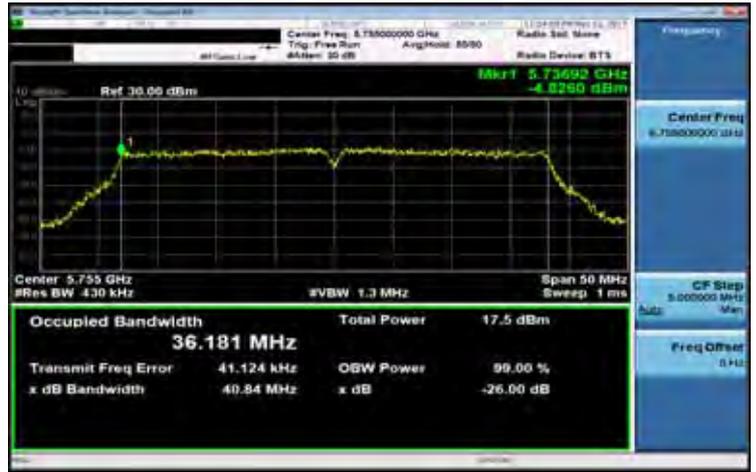
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FCC\_802.11n\_40MHz\_Main\_5550MHz



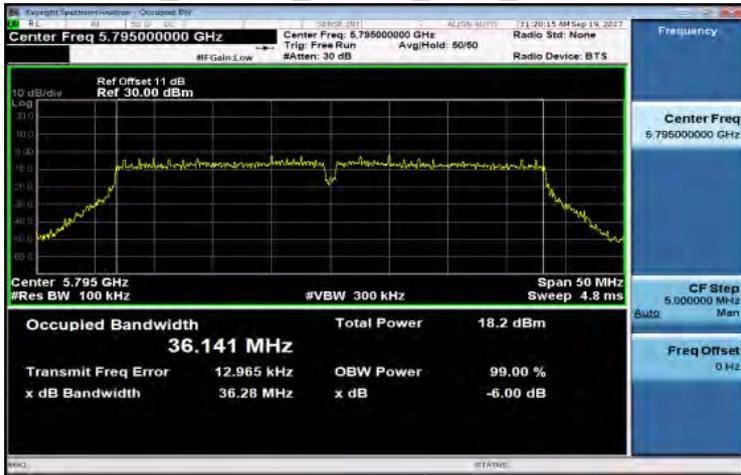
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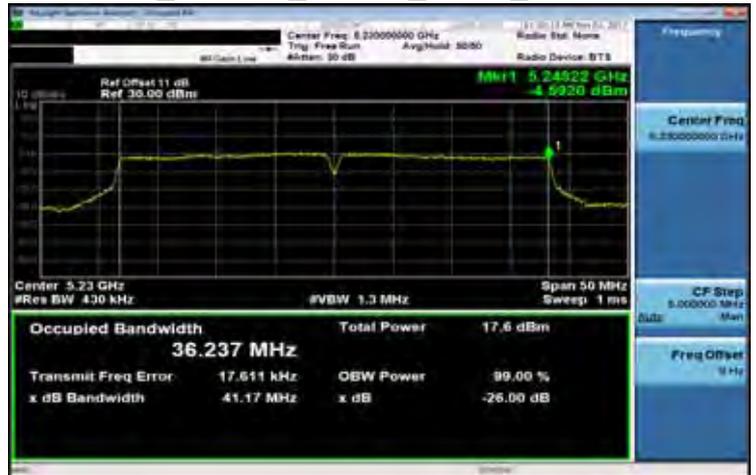
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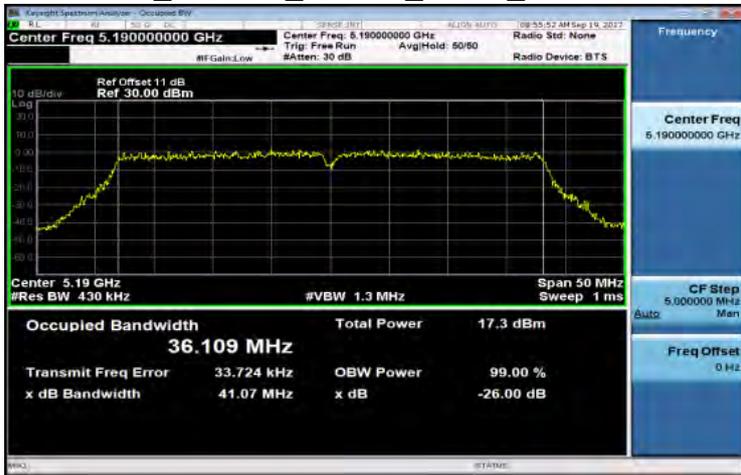
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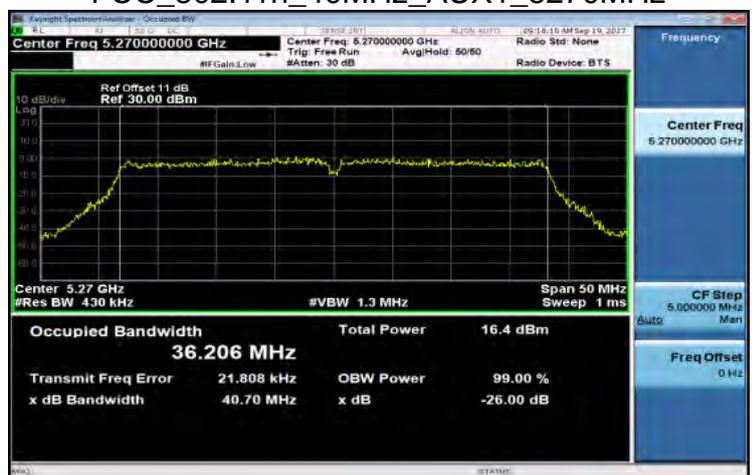
FCC\_802.11n\_40MHz\_AUX1\_5230MHz



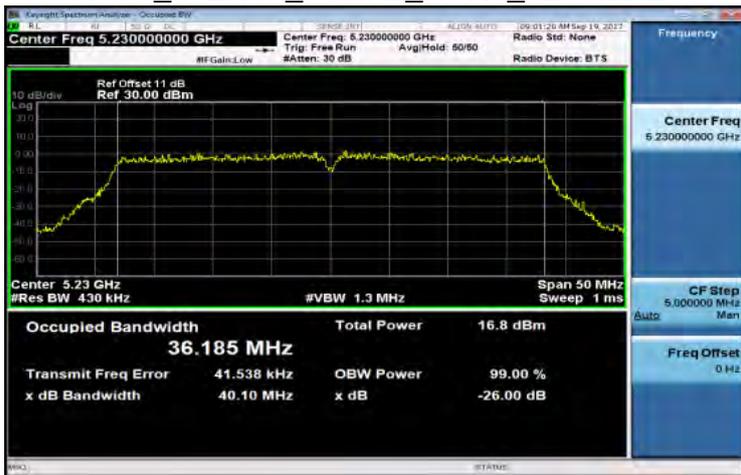
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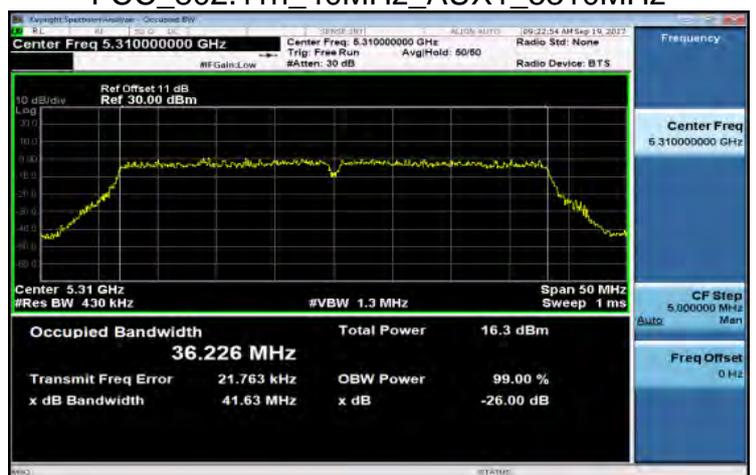
FCC\_802.11n\_40MHz\_AUX1\_5270MHz



FCC\_802.11n\_40MHz\_AUX1\_5230MHz



FCC\_802.11n\_40MHz\_AUX1\_5310MHz



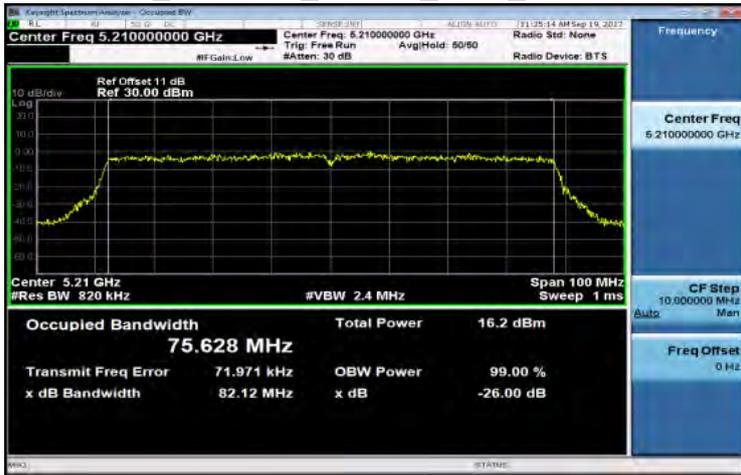
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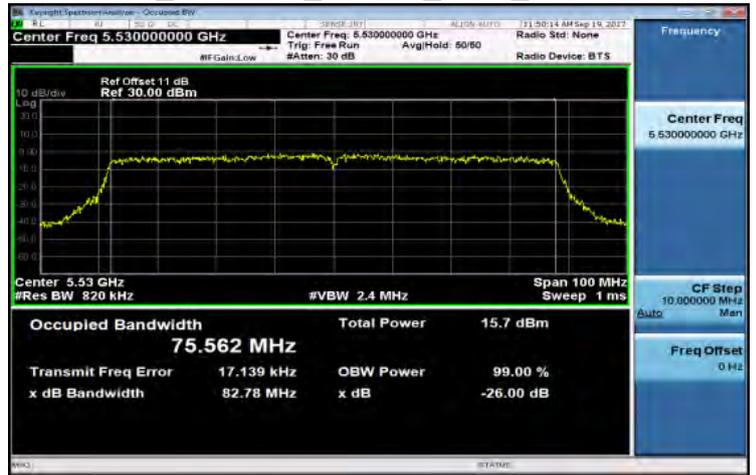
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FCC\_802.11ac\_80MHz\_Main\_5210MHz



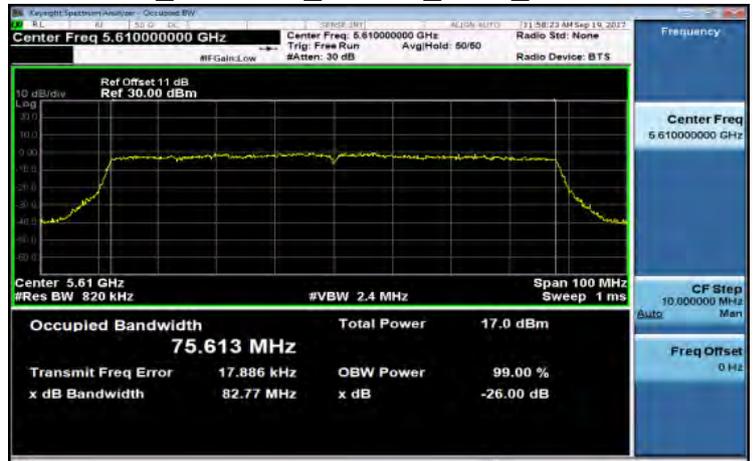
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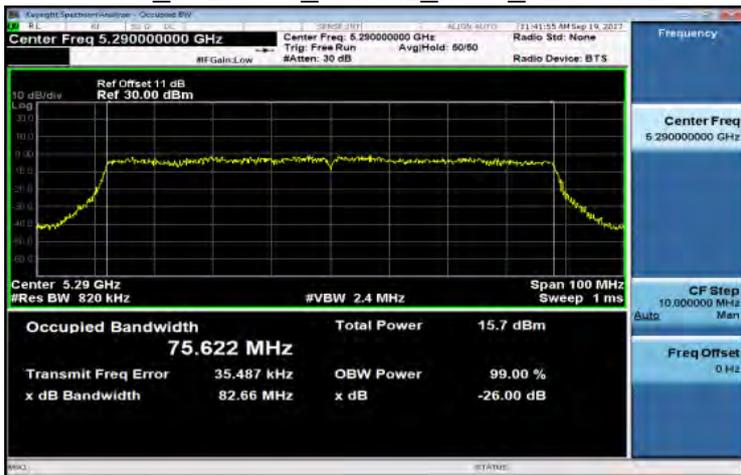
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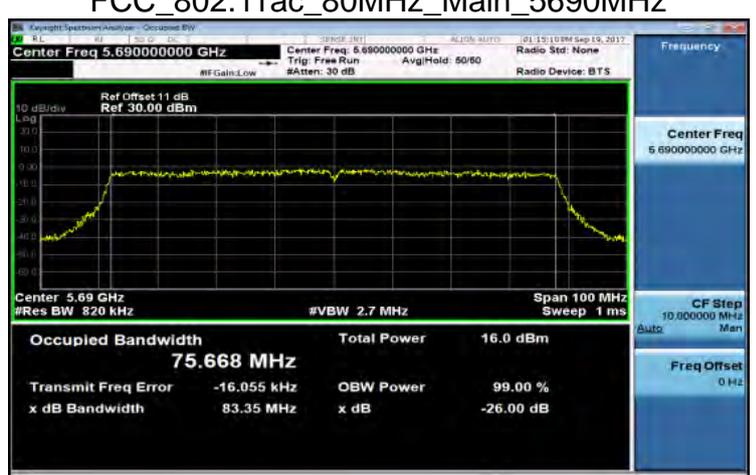
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FCC\_802.11ac\_80MHz\_Main\_5290MHz



FCC\_802.11ac\_80MHz\_Main\_5690MHz

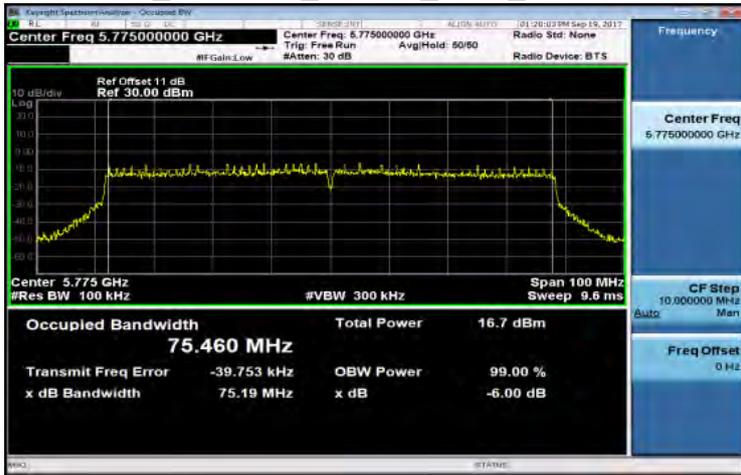


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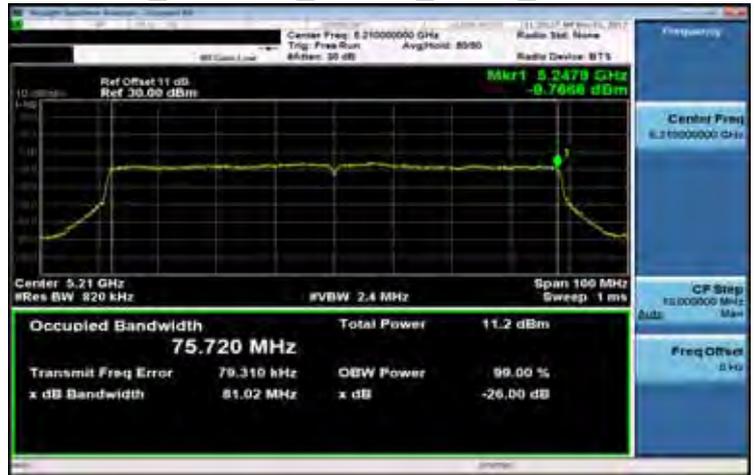
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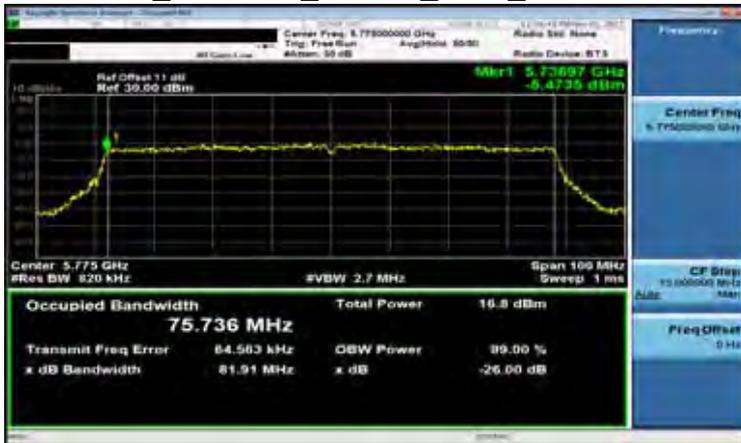
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FCC\_802.11ac\_80MHz\_AUX1\_5210MHz



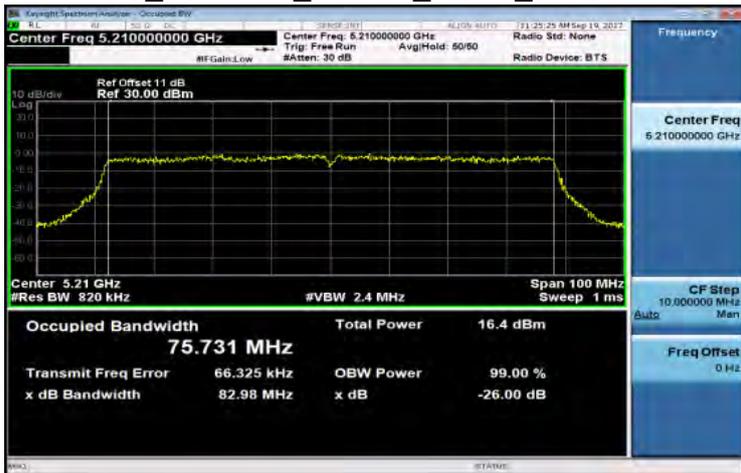
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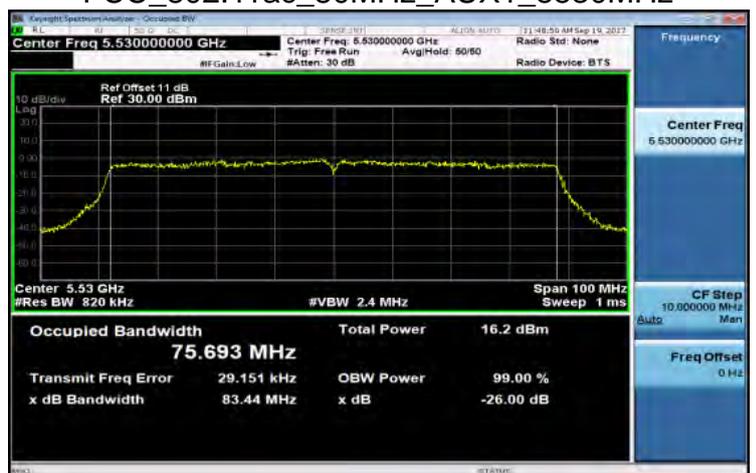
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FCC\_802.11ac\_80MHz\_AUX1\_5210MHz



FCC\_802.11ac\_80MHz\_AUX1\_5530MHz

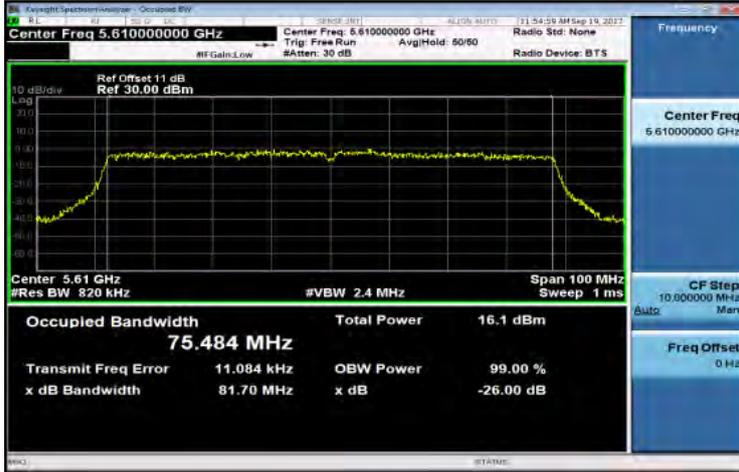


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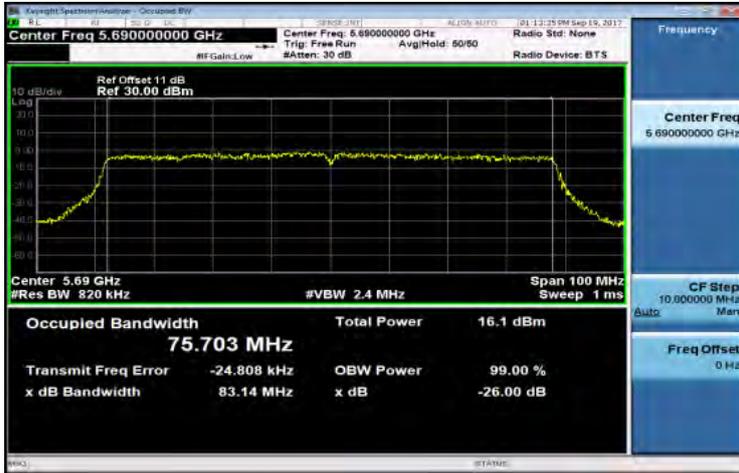
FCC\_802.11ac\_80MHz\_AUX1\_5610MHz



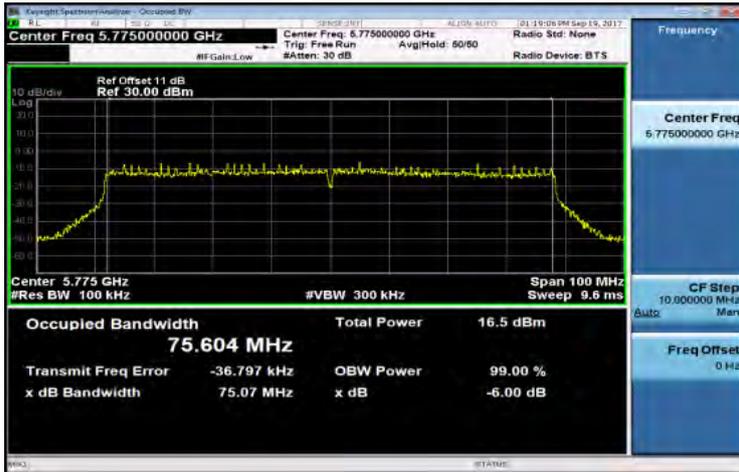
FCC\_802.11ac\_80MHz\_AUX1\_5775MHz



FCC\_802.11ac\_80MHz\_AUX1\_5690MHz



FCC\_802.11ac\_80MHz\_AUX1\_5775MHz



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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 Access Ponit	1 Watt(30dBm)
	√	Mobile and portable clinet device	250mW(23.98dBm)
U-NII-2A	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-2C	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-3	√		1 Watt(30dBm)

#### IC

OPERZTION FREQUENCY BAND	LIMIT
5150~5250 MHz	EIRP shall not exceed 200 mW or 10 + 10 log <sub>10</sub> B, dBm
5250~5350 MHz	Conducted output power shall not exceed 250 mW or 11 +10 log <sub>10</sub> B EIRP shall not exceed 1.0 W or 17 + 10 log <sub>10</sub> B, dBm
5470-5600 MHz and 5650-5725 MHz	Conducted output power shall not exceed 250 mW or 11 +10 log <sub>10</sub> B EIRP shall not exceed 1.0 W or 17 + 10 log <sub>10</sub> 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 transmit power and the power spectral density shall be reduced by the amount in dB that the direction-al gain of the antenna exceeds 6 dBi.

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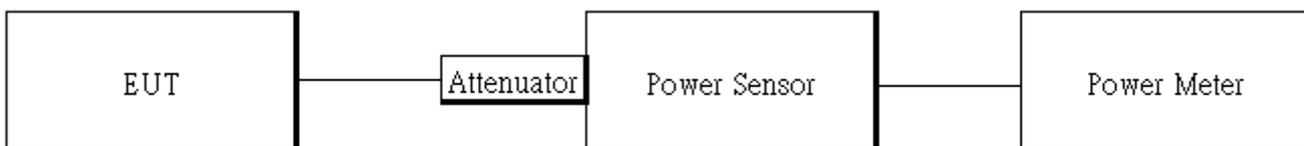
### 9.2 Measurement Procedure

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

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Power Meter	Anritsu	ML2496A	1326001	06/23/2017	06/22/2018
Power Sensor	Anritsu	MA2411B	1315048	06/23/2017	06/22/2018
Power Sensor	Anritsu	MA2411B	1315049	06/23/2017	06/22/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2016	12/11/2017
DC Block	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/13/2017	06/12/2018

### 9.4 Test Set-up



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## 9.5 Measurement Result

### Conducted output power (FCC)

#### 802.11a\_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1			
36	5180	6	14.79	14.62	<b>17.94</b>	23.98	PASS
44	5220	6	14.67	14.74	17.94	23.98	PASS
48	5240	6	14.61	14.78	17.93	23.98	PASS
52	5260	6	14.67	14.84	<b>17.99</b>	23.98 or $11+10\log(B) = 24.70$	PASS
60	5300	6	14.59	14.91	17.98	23.98 or $11+10\log(B) = 24.62$	PASS
64	5320	6	14.72	14.86	18.02	23.98 or $11+10\log(B) = 24.31$	PASS
100	5500	6	14.78	15.12	<b>18.18</b>	23.98 or $11+10\log(B) = 24.31$	PASS
116	5580	6	14.8	15.02	18.14	23.98 or $11+10\log(B) = 24.33$	PASS
140	5700	6	14.89	15.04	<b>18.20</b>	23.98 or $11+10\log(B) = 24.32$	PASS
149	5745	6	14.92	15.03	<b>18.21</b>	30	PASS
157	5785	6	14.63	14.77	17.93	30	PASS
165	5825	6	14.84	15.04	18.17	30	PASS

#### 802.11n\_HT20\_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1			
36	5180	MCS8	13.85	14.04	17.37	23.98	PASS
44	5220	MCS8	13.87	14.05	<b>17.38</b>	23.98	PASS
48	5240	MCS8	13.79	14.04	17.34	23.98	PASS
52	5260	MCS8	13.84	14.05	<b>17.37</b>	23.98 or $11+10\log(B) = 24.58$	PASS
60	5300	MCS8	13.82	14.11	<b>17.39</b>	23.98 or $11+10\log(B) = 24.67$	PASS
64	5320	MCS8	13.66	13.76	17.13	23.98 or $11+10\log(B) = 24.60$	PASS
100	5500	MCS8	13.68	13.92	17.22	23.98 or $11+10\log(B) = 24.44$	PASS
116	5580	MCS8	13.57	13.87	17.14	23.98 or $11+10\log(B) = 24.57$	PASS
140	5700	MCS8	13.85	14.01	<b>17.35</b>	23.98 or $11+10\log(B) = 24.64$	PASS
149	5745	MCS8	13.88	14.07	17.40	30	PASS
157	5785	MCS8	13.87	14.08	<b>17.40</b>	30	PASS
165	5825	MCS8	13.72	13.97	17.27	30	PASS

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**802.11ac\_VHT20\_MIMO**

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1			
36	5180	MCS8	12.82	13.04	16.18	23.98	PASS
44	5220	MCS8	12.87	13.08	<b>16.22</b>	23.98	PASS
48	5240	MCS8	12.84	13.06	16.20	23.98	PASS
52	5260	MCS8	12.87	13.09	<b>16.23</b>	23.98 or $11+10\log(B) = 24.58$	PASS
60	5300	MCS8	12.45	12.72	15.83	23.98 or $11+10\log(B) = 24.67$	PASS
64	5320	MCS8	12.59	12.75	15.92	23.98 or $11+10\log(B) = 24.60$	PASS
100	5500	MCS8	12.63	12.86	<b>15.99</b>	23.98 or $11+10\log(B) = 24.44$	PASS
116	5580	MCS8	12.54	12.84	15.94	23.98 or $11+10\log(B) = 24.57$	PASS
140	5700	MCS8	12.73	12.97	<b>16.10</b>	23.98 or $11+10\log(B) = 24.64$	PASS
149	5745	MCS8	12.77	12.97	16.12	30	PASS
157	5785	MCS8	12.84	13.12	<b>16.23</b>	30	PASS
165	5825	MCS8	12.73	12.89	16.06	30	PASS

**802.11n\_HT40\_MIMO**

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1			
38	5190	MCS8	13.93	14.01	<b>18.03</b>	23.98	PASS
46	5230	MCS8	13.55	13.71	17.69	23.98	PASS
54	5270	MCS8	13.58	13.75	<b>17.73</b>	23.98 or $11+10\log(B) = 27.10$	PASS
62	5310	MCS8	13.53	13.75	17.70	23.98 or $11+10\log(B) = 27.08$	PASS
102	5510	MCS8	13.7	13.96	17.89	23.98 or $11+10\log(B) = 27.14$	PASS
110	5550	MCS8	13.71	13.97	17.90	23.98 or $11+10\log(B) = 27.07$	PASS
134	5670	MCS8	13.72	14.09	<b>17.97</b>	23.98 or $11+10\log(B) = 27.05$	PASS
151	5755	MCS8	13.83	14.13	<b>18.05</b>	30	PASS
159	5795	MCS8	13.85	14.05	18.01	30	PASS

**802.11ac\_VHT40\_MIMO**

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1			
38	5190	MCS8	11.59	11.74	15.15	23.98	PASS
46	5230	MCS8	11.66	11.82	<b>15.22</b>	23.98	PASS
54	5270	MCS8	11.74	11.87	<b>15.29</b>	23.98 or $11+10\log(B) = 27.10$	PASS
62	5310	MCS8	11.64	11.84	15.22	23.98 or $11+10\log(B) = 27.08$	PASS
102	5510	MCS8	11.85	12.11	<b>15.46</b>	23.98 or $11+10\log(B) = 27.14$	PASS
110	5550	MCS8	11.84	12.09	15.45	23.98 or $11+10\log(B) = 27.07$	PASS
134	5670	MCS8	11.51	11.72	15.10	23.98 or $11+10\log(B) = 27.05$	PASS
151	5755	MCS8	11.52	11.76	15.12	30	PASS
159	5795	MCS8	11.57	11.81	<b>15.17</b>	30	PASS

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## 802.11ac\_VHT80\_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1			
42	5210	MCS8	11.79	11.93	<b>16.03</b>	23.98	PASS
58	5290	MCS8	11.84	11.97	<b>16.07</b>	23.98 or $11+10\log(B) = 30.16$	PASS
106	5530	MCS8	11.47	11.74	<b>15.77</b>	23.98 or $11+10\log(B) = 30.18$	PASS
122	5610	MCS8	11.43	11.77	<b>15.77</b>	23.98 or $11+10\log(B) = 30.12$	PASS
155	5775	MCS8	11.63	11.85	<b>15.91</b>	30	PASS

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## Conducted output power (IC)

## 802.11a\_MIMO

CH	Frequency (MHz)	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
52	5260	14.7	14.8	17.77	59.788	23.98 or $11+10\log(B) = 23.22$	PASS
60	5300	14.6	14.9	17.76	59.748	23.98 or $11+10\log(B) = 23.21$	PASS
64	5320	14.7	14.9	<b>17.80</b>	<b>60.268</b>	23.98 or $11+10\log(B) = 23.22$	PASS
100	5500	14.8	15.1	<b>17.96</b>	<b>62.569</b>	23.98 or $11+10\log(B) = 23.20$	PASS
116	5580	14.8	15	17.92	61.968	23.98 or $11+10\log(B) = 23.20$	PASS
140	5700	14.9	15	<b>17.98</b>	<b>62.747</b>	23.98 or $11+10\log(B) = 23.21$	PASS
149	5745	14.9	15	<b>17.99</b>	<b>62.888</b>	30	PASS
157	5785	14.6	14.8	17.71	59.032	30	PASS
165	5825	14.8	15	17.95	62.394	30	PASS

## 802.11n\_HT20\_MIMO

CH	Frequency (MHz)	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
52	5260	13.8	14.1	16.96	49.620	23.98 or $11+10\log(B) = 23.50$	PASS
60	5300	13.8	14.1	<b>16.98</b>	<b>49.862</b>	23.98 or $11+10\log(B) = 23.51$	PASS
64	5320	13.7	13.8	16.72	46.996	23.98 or $11+10\log(B) = 23.49$	PASS
100	5500	13.7	13.9	<b>16.81</b>	<b>47.995</b>	23.98 or $11+10\log(B) = 23.50$	PASS
116	5580	13.6	13.9	16.73	47.129	23.98 or $11+10\log(B) = 23.49$	PASS
140	5700	13.9	14	<b>16.94</b>	<b>49.443</b>	23.98 or $11+10\log(B) = 23.50$	PASS
149	5745	13.9	14.1	16.99	49.961	30	PASS
157	5785	13.9	14.1	<b>16.99</b>	<b>49.964</b>	30	PASS
165	5825	13.7	14	16.86	48.496	30	PASS

## 802.11ac\_VHT20\_MIMO

CH	Frequency (MHz)	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
52	5260	12.9	13.1	<b>15.99</b>	<b>39.735</b>	23.98 or $11+10\log(B) = 23.50$	PASS
60	5300	12.5	12.7	15.60	36.286	23.98 or $11+10\log(B) = 23.51$	PASS
64	5320	12.6	12.8	15.68	36.992	23.98 or $11+10\log(B) = 23.49$	PASS
100	5500	12.6	12.9	<b>15.76</b>	<b>37.643</b>	23.98 or $11+10\log(B) = 23.50$	PASS
116	5580	12.5	12.8	15.70	37.178	23.98 or $11+10\log(B) = 23.49$	PASS
140	5700	12.7	13	<b>15.86</b>	<b>38.565</b>	23.98 or $11+10\log(B) = 23.50$	PASS
149	5745	12.8	13	15.88	38.739	30	PASS
157	5785	12.8	13.1	<b>15.99</b>	<b>39.743</b>	30	PASS
165	5825	12.7	12.9	15.82	38.204	30	PASS

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## 802.11n\_HT40\_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
54	5270	13.58	13.75	<b>16.68</b>	<b>46.517</b>	23.98 or 11+10log(B) = 26.57	PASS
62	5310	13.53	13.75	16.65	46.256	23.98 or 11+10log(B) = 26.58	PASS
102	5510	13.7	13.96	16.84	48.331	23.98 or 11+10log(B) = 26.58	PASS
110	5550	13.71	13.97	<b>16.85</b>	<b>48.442</b>	23.98 or 11+10log(B) = 26.57	PASS
134	5670	13.72	14.09	<b>16.92</b>	<b>49.195</b>	23.98 or 11+10log(B) = 26.57	PASS
151	5755	13.83	14.13	<b>16.99</b>	<b>50.037</b>	30	PASS
159	5795	13.85	14.05	16.96	49.676	30	PASS

## 802.11ac\_VHT40\_MIMO

CH	Frequency (MHz)	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
54	5270	11.7	11.9	<b>14.82</b>	<b>30.309</b>	23.98 or 11+10log(B) = 26.57	PASS
62	5310	11.6	11.8	14.75	29.864	23.98 or 11+10log(B) = 26.58	PASS
102	5510	11.9	12.1	<b>14.99</b>	<b>31.566</b>	23.98 or 11+10log(B) = 26.58	PASS
110	5550	11.8	12.1	14.98	31.456	23.98 or 11+10log(B) = 26.57	PASS
134	5670	11.5	11.7	<b>14.63</b>	<b>29.017</b>	23.98 or 11+10log(B) = 26.57	PASS
151	5755	11.5	11.8	14.65	29.187	30	PASS
159	5795	11.6	11.8	<b>14.70</b>	<b>29.525</b>	30	PASS

## 802.11ac\_VHT80\_MIMO

CH	Frequency (MHz)	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
58	5290	11.8	12	<b>14.92</b>	<b>31.015</b>	23.98 or 11+10log(B) = 29.78	PASS
106	5530	11.5	11.7	<b>14.62</b>	<b>28.956</b>	23.98 or 11+10log(B) = 29.78	PASS
155	5775	11.6	11.9	<b>14.75</b>	<b>29.865</b>	30	PASS

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## EIRP

## 802.11a\_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
36	5180	17.94	-3.59	14.35	27.200	23.01	or 10+10log(B)= 22.21	PASS
44	5220	17.94	-3.59	14.35	27.196	23.01	or 10+10log(B)= 22.21	PASS
48	5240	17.93	-3.59	14.34	27.137	23.01	or 10+10log(B)= 22.21	PASS
52	5260	17.99	-4.39	13.60	22.886	30	or 17+10log(B)= 29.22	PASS
60	5300	17.98	-4.39	13.59	22.871	30	or 17+10log(B)= 29.21	PASS
64	5320	18.02	-4.39	13.63	23.070	30	or 17+10log(B)= 29.22	PASS
100	5500	18.18	-2.19	15.99	39.748	30	or 17+10log(B)= 29.20	PASS
116	5580	18.14	-2.19	15.95	39.366	30	or 17+10log(B)= 29.20	PASS
140	5700	18.20	-2.19	16.01	39.861	30	or 17+10log(B)= 29.21	PASS

## 802.11n\_HT20\_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
36	5180	17.37	-3.59	13.78	23.856	23.01	or 10+10log(B)= 22.49	PASS
44	5220	17.38	-3.59	13.79	23.938	23.01	or 10+10log(B)= 22.50	PASS
48	5240	17.34	-3.59	13.75	23.696	23.01	or 10+10log(B)= 22.51	PASS
52	5260	17.37	-4.39	12.98	19.843	30	or 17+10log(B)= 29.50	PASS
60	5300	17.39	-4.39	13.00	19.940	30	or 17+10log(B)= 29.51	PASS
64	5320	17.13	-4.39	12.74	18.794	30	or 17+10log(B)= 29.49	PASS
100	5500	17.22	-2.19	15.03	31.853	30	or 17+10log(B)= 29.50	PASS
116	5580	17.14	-2.19	14.95	31.279	30	or 17+10log(B)= 29.49	PASS
140	5700	17.35	-2.19	15.16	32.814	30	or 17+10log(B)= 29.50	PASS

## 802.11ac\_VHT20\_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
36	5180	16.18	-3.59	12.59	18.148	23.01	or 10+10log(B)= 22.49	PASS
44	5220	16.22	-3.59	12.63	18.336	23.01	or 10+10log(B)= 22.50	PASS
48	5240	16.20	-3.59	12.61	18.231	23.01	or 10+10log(B)= 22.51	PASS
52	5260	16.23	-4.39	11.84	15.269	30	or 17+10log(B)= 29.50	PASS
60	5300	15.83	-4.39	11.44	13.944	30	or 17+10log(B)= 29.51	PASS
64	5320	15.92	-4.39	11.53	14.215	30	or 17+10log(B)= 29.49	PASS
100	5500	15.99	-2.19	13.80	24.007	30	or 17+10log(B)= 29.50	PASS
116	5580	15.94	-2.19	13.75	23.710	30	or 17+10log(B)= 29.49	PASS
140	5700	16.10	-2.19	13.91	24.595	30	or 17+10log(B)= 29.50	PASS

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## 802.11n\_HT40\_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	18.03	-3.59	14.44	27.816	23.01 or 10+10log(B)= 25.57	PASS
46	5230	17.69	-3.59	14.10	25.724	23.01 or 10+10log(B)= 25.58	PASS
54	5270	17.73	-4.39	13.34	21.570	30 or 17+10log(B)= 32.57	PASS
62	5310	17.70	-4.39	13.31	21.449	30 or 17+10log(B)= 32.58	PASS
102	5510	17.89	-2.19	15.70	37.193	30 or 17+10log(B)= 32.58	PASS
110	5550	17.90	-2.19	15.71	37.279	30 or 17+10log(B)= 32.57	PASS
134	5670	17.97	-2.19	15.78	37.859	30 or 17+10log(B)= 32.57	PASS

## 802.11ac\_VHT40\_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	15.15	-3.59	11.56	14.317	23.01 or 10+10log(B)= 25.57	PASS
46	5230	15.22	-3.59	11.63	14.567	23.01 or 10+10log(B)= 25.58	PASS
54	5270	15.29	-4.39	10.90	12.298	30 or 17+10log(B)= 32.57	PASS
62	5310	15.22	-4.39	10.83	12.117	30 or 17+10log(B)= 32.58	PASS
102	5510	15.46	-2.19	13.27	21.256	30 or 17+10log(B)= 32.58	PASS
110	5550	15.45	-2.19	13.26	21.182	30 or 17+10log(B)= 32.57	PASS
134	5670	15.10	-2.19	12.91	19.540	30 or 17+10log(B)= 32.57	PASS

## 802.11ac\_VHT80\_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	16.03	-3.59	12.44	17.522	23.01 or 10+10log(B)= 28.78	PASS
58	5290	16.07	-4.39	11.68	14.725	30 or 17+10log(B)= 35.78	PASS
106	5530	15.77	-2.19	13.58	22.815	30 or 17+10log(B)= 35.78	PASS

## Note:

SISO offset= 11 dB

MIMO offset= 14 dB

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## 10 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 Access 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 transmit power and the 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

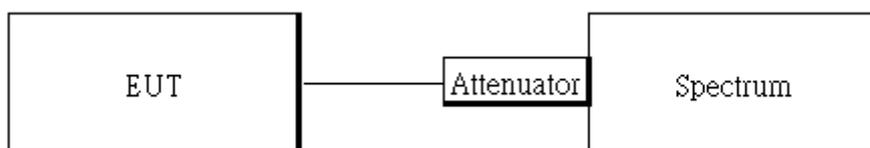
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**  
Set 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≥ 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.

Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome

### 10.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2016	12/11/2017
DC Block	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018

### 10.4 Test Set-up



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## 10.5 Measurement Result

POWER DENSITY 802.11a MODE							
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	10 log(N=2) dB	Total PSD (dBm)	Limit (dBm)	Margin (dB)
5180	5.57	0.22	5.79	3.01	8.80	11	-2.20
5220	5.46	0.22	5.68	3.01	8.69	11	-2.31
5240	5.72	0.22	5.94	3.01	8.95	11	-2.05
5260	3.85	0.22	4.07	3.01	7.08	11	-3.92
5300	7.40	0.22	7.62	3.01	10.63	11	-0.37
5320	5.88	0.22	6.10	3.01	9.11	11	-1.89
5500	6.25	0.22	6.47	3.01	9.48	11	-1.52
5580	3.78	0.22	4.00	3.01	7.01	11	-3.99
5700	3.85	0.22	4.07	3.01	7.08	11	-3.92
5745	12.98	0.22	12.98	3.01	15.99	30	-14.01
5785	13.23	0.22	13.23	3.01	16.24	30	-13.76
5825	13.75	0.22	13.75	3.01	16.76	30	-13.24

POWER DENSITY 802.11n HT20 MODE							
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	10 log(N=2) dB	Total PSD (dBm)	Limit (dBm)	Margin (dB)
5180	1.21	0.41	1.62	3.01	4.63	11	-6.37
5220	-0.55	0.41	-0.14	3.01	2.87	11	-8.13
5240	0.38	0.41	0.79	3.01	3.80	11	-7.20
5260	0.63	0.41	1.04	3.01	4.05	11	-6.95
5300	2.28	0.41	2.69	3.01	5.70	11	-5.30
5320	0.53	0.41	0.94	3.01	3.95	11	-7.05
5500	3.50	0.41	3.91	3.01	6.92	11	-4.08
5580	0.27	0.41	0.68	3.01	3.69	11	-7.31
5700	3.11	0.41	3.52	3.01	6.53	11	-4.47
5745	12.55	0.41	12.55	3.01	15.56	30	-14.44
5785	12.30	0.41	12.30	3.01	15.31	30	-14.69
5825	11.90	0.41	11.90	3.01	14.91	30	-15.09

POWER DENSITY 802.11n HT40 MODE							
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	10 log(N=2) dB	Total PSD (dBm)	Limit (dBm)	Margin (dB)
5190	-7.92	1.05	-6.87	3.01	-3.86	11	-14.86
5230	-6.62	1.05	-5.57	3.01	-2.56	11	-13.56
5270	-4.27	1.05	-3.22	3.01	-0.21	11	-11.21
5310	-6.13	1.05	-5.08	3.01	-2.07	11	-13.07
5510	-6.46	1.05	-5.41	3.01	-2.40	11	-13.40
5550	-4.5	1.05	-3.45	3.01	-0.44	11	-11.44
5670	-6.40	1.05	-5.35	3.01	-2.34	11	-13.34
5755	10.25	1.05	10.25	3.01	13.26	30	-16.74
5795	11.28	1.05	11.28	3.01	14.29	30	-15.71

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POWER DENSITY 802.11ac VHT80 MODE							
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	10 log(N=2) dB	Total PSD (dBm)	Limit (dBm)	Margin (dB)
5210	-10.24	1.15	-9.09	3.01	-6.07	11	-17.07
5290	-9.50	1.15	-8.35	3.01	-5.33	11	-16.33
5530	-8.70	1.15	-7.55	3.01	-4.53	11	-15.53
5610	-10.69	1.15	-9.54	3.01	-6.52	11	-17.52
5775	5.16	1.15	5.16	3.01	8.17	30	-21.83

### EIRP Power Density

EIRP spectral density 802.11a MODE						EIRP spectral density 802.11n HT20 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)	Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	5.79	-3.59	2.20	10	-4.21	5180	1.62	-3.59	-1.97	10	-8.38
5220	5.68	-3.59	2.09	10	-4.32	5220	-0.14	-3.59	-3.73	10	-10.14
5240	5.94	-3.59	2.35	10	-4.06	5240	0.79	-3.59	-2.80	10	-9.21

EIRP spectral density 802.11n HT40 MODE						EIRP spectral density 802.11ac VHT80 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)	Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	-6.87	-3.59	-10.46	10	-16.87	5210	-9.09	-3.59	-12.68	10	-19.09
5220	-5.57	-3.59	-9.16	10	-15.57						

#### Note:

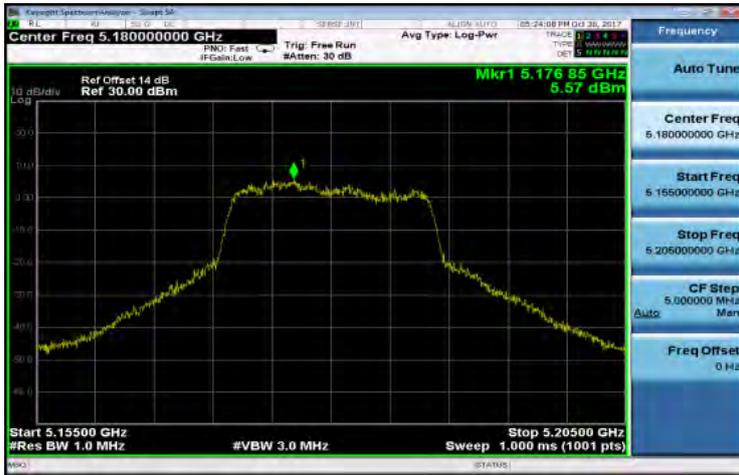
SISO offset= 11 dB  
MIMO offset= 14 dB

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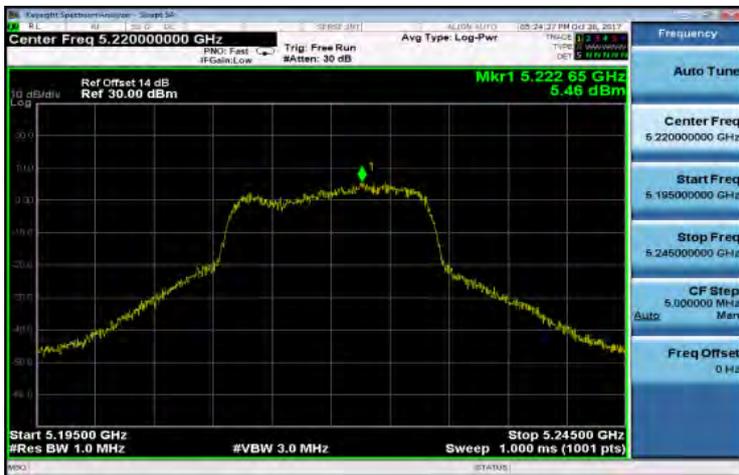
802.11a\_20MHz\_5180MHz



802.11a\_20MHz\_5260MHz



802.11a\_20MHz\_5220MHz



802.11a\_20MHz\_5300MHz



802.11a\_20MHz\_5240MHz



802.11a\_20MHz\_5320MHz



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802.11a\_20MHz\_5500MHz



802.11a\_20MHz\_5745MHz



802.11a\_20MHz\_5580MHz



802.11a\_20MHz\_5785MHz



802.11a\_20MHz\_5700MHz



802.11a\_20MHz\_5825MHz



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802.11n\_20MHz\_5180MHz



802.11n\_20MHz\_5260MHz



802.11n\_20MHz\_5220MHz



802.11n\_20MHz\_5300MHz



802.11n\_20MHz\_5240MHz



802.11n\_20MHz\_5320MHz



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802.11n\_20MHz\_5500MHz



802.11n\_20MHz\_5745MHz



802.11n\_20MHz\_5580MHz



802.11n\_20MHz\_5785MHz



802.11n\_20MHz\_5700MHz



802.11n\_20MHz\_5825MHz



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802.11n\_40MHz\_5190MHz



802.11n\_40MHz\_5310MHz



802.11n\_40MHz\_5230MHz



802.11n\_40MHz\_5510MHz



802.11n\_40MHz\_5270MHz



802.11n\_40MHz\_5550MHz



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802.11n\_40MHz\_5670MHz



802.11ac\_80MHz\_5210MHz



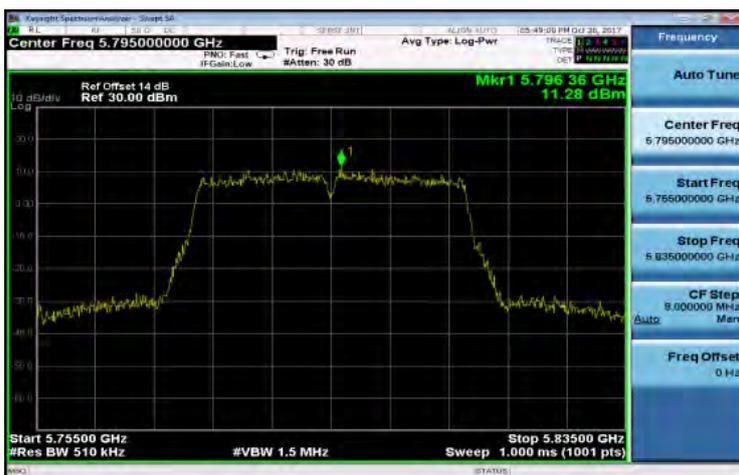
802.11n\_40MHz\_5755MHz



802.11ac\_80MHz\_5290MHz



802.11n\_40MHz\_5795MHz



802.11ac\_80MHz\_5530MHz



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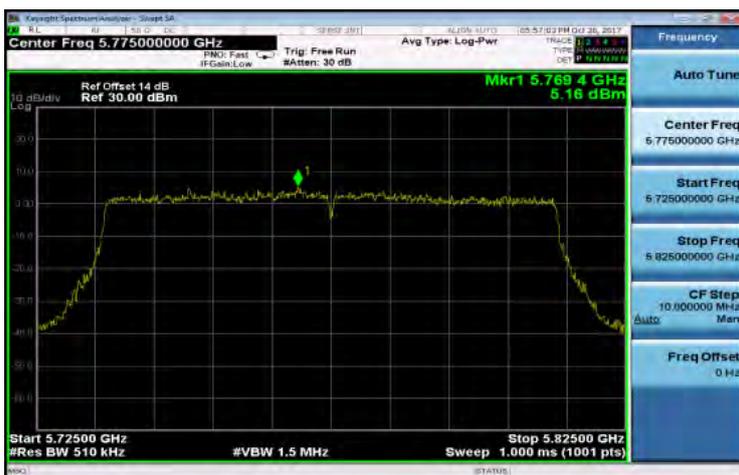
### 802.11ac\_80MHz\_5610MHz



### 802.11ac\_80MHz\_5690MHz



### 802.11ac\_80MHz\_5775MHz



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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:

- 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.
- 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) RSS-247 6.2.1.2	PK: -27 (dBm/MHz)	PK: 68.3 (dBµV/m)
15.407(b)(2) RSS-247 6.2.2.2		
15.407(b)(3) RSS-247 6.2.3.2		
15.407(b)(4)(i) RSS-247 6.2.4.2	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBµV/m) *1 PK:105.2 (dBµV/m) *2 PK: 110.8(dBµV/m) *3 PK:122.2 (dBµV/m) *4
*1 beyond 75 MHz or more above of the bandedge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

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

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

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

**Note:**

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

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## 11.2 Measurement Equipment Used

SGS 966 Chamber No.C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESU 40	100363	04/18/2017	04/17/2018
Loop Antenna	ETS-Lindgren	6502	00143303	12/23/2016	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	08/01/2017	07/31/2018
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	R&S	SCU-26	100780	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	03/02/2017	03/01/2018
Site VSWR	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2017	05/03/2018
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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

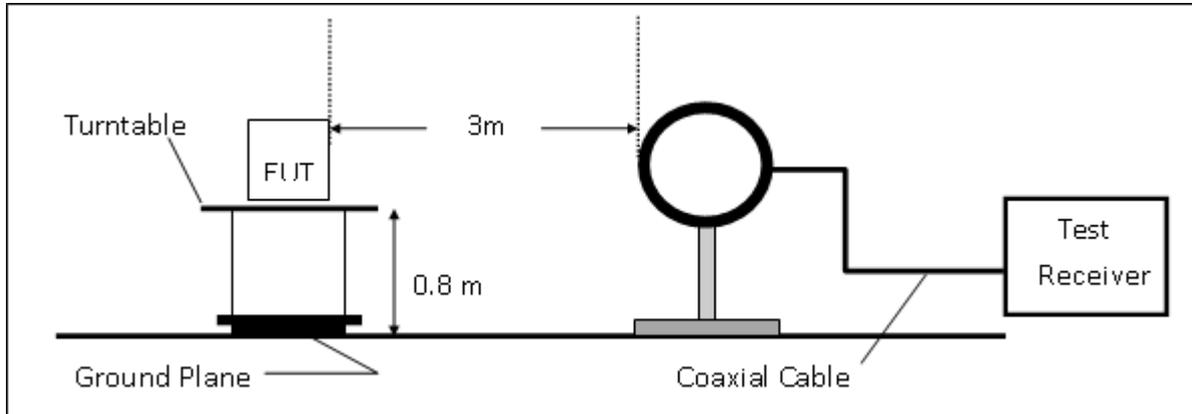
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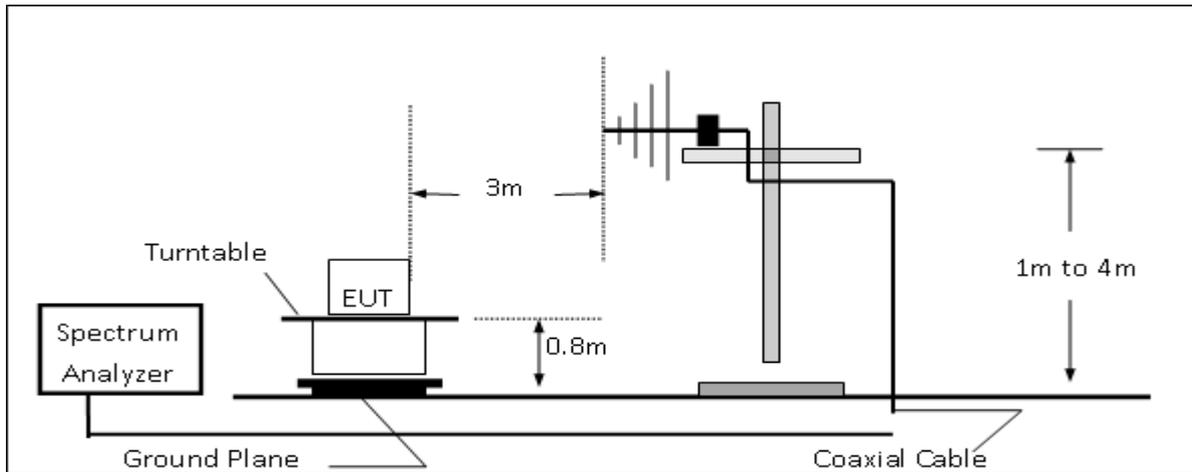
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### 11.3 Test SET-UP

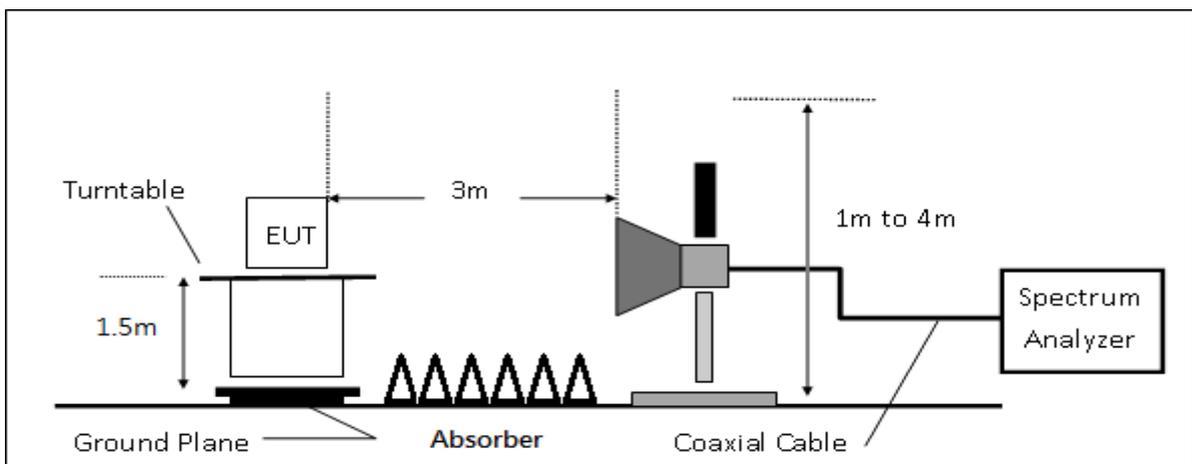
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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.

Band	Duty Cycle(%)	T(μs)	1/T(kHz)	VBW Setting
802.11a	95.07	2064	0.48	1kHz
802.11n_20	91.00	982	1.01	3kHz
802.11n_40	78.48	496	2.01	3kHz
802.11ac_80	76.65	631	1.58	3kHz

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)

**Note :**

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

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

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

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

## 11.7 Measurement Result

Refer to next page for tabular data sheets.

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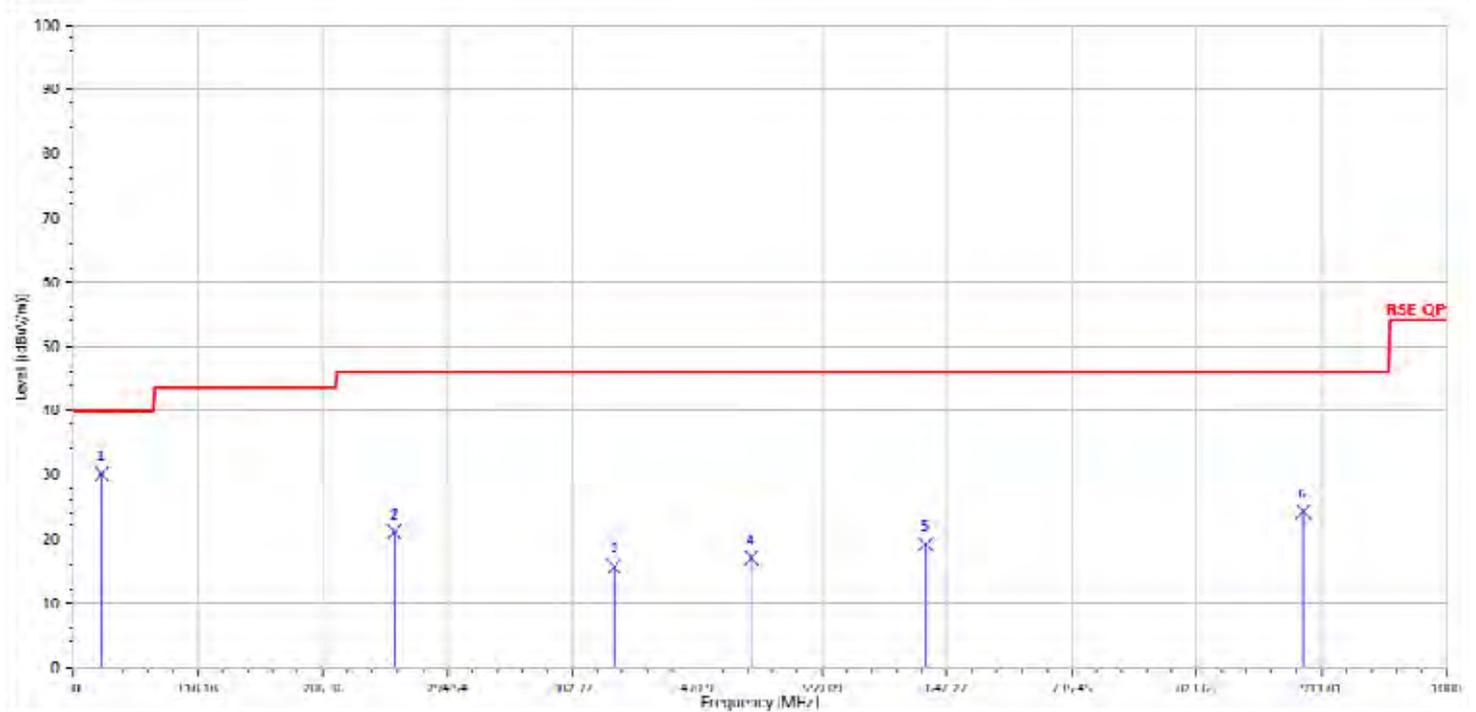
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### Radiated Spurious Emission Measurement Result

#### Below 1GHz Worst-Case Data:

#### 802.11a 5150~5250 MHz

Operation Mode :	802.11aB1	Test Date :	2017/9/27
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



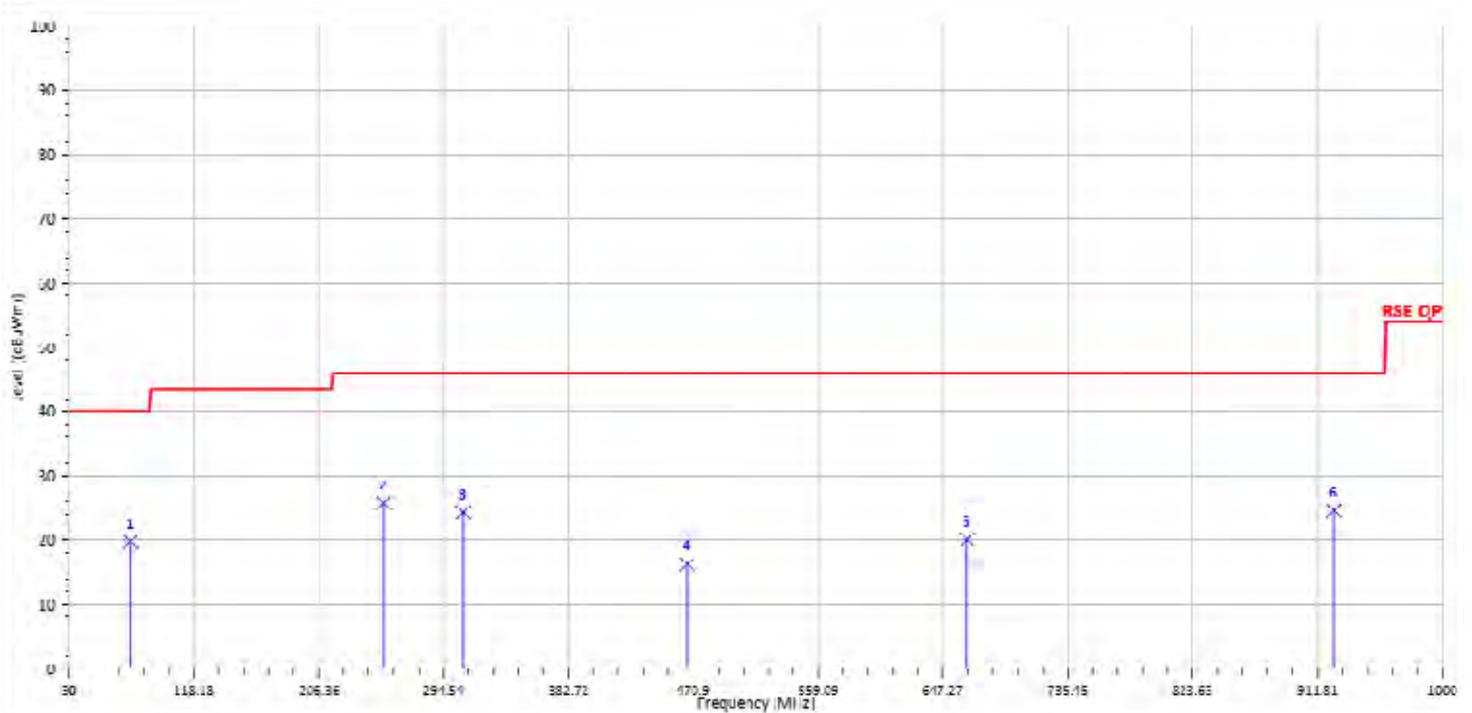
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
50.37	S	Peak	53.80	-23.77	30.03	40	-9.97
256.98	S	Peak	44.34	-23.26	21.07	46	-24.93
412.18	S	Peak	33.72	-18.05	15.67	46	-30.33
509.18	S	Peak	33.95	-16.95	17.00	46	-29.00
632.37	S	Peak	33.24	-14.14	19.10	46	-26.90
899.12	S	Peak	34.36	-10.07	24.29	46	-21.71

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Operation Mode : 802.11aB1 Test Date : 2017/9/27  
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH Mid Test Engineer : Enzo  
 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
73.65	S	Peak	46.05	-26.26	19.79	40	-20.21
252.13	S	Peak	49.04	-23.26	25.78	46	-20.22
308.39	S	Peak	45.62	-21.30	24.32	46	-21.68
466.50	S	Peak	33.33	-17.10	16.24	46	-29.76
664.38	S	Peak	33.96	-13.89	20.07	46	-25.93
923.37	S	Peak	34.47	-9.89	24.58	46	-21.42

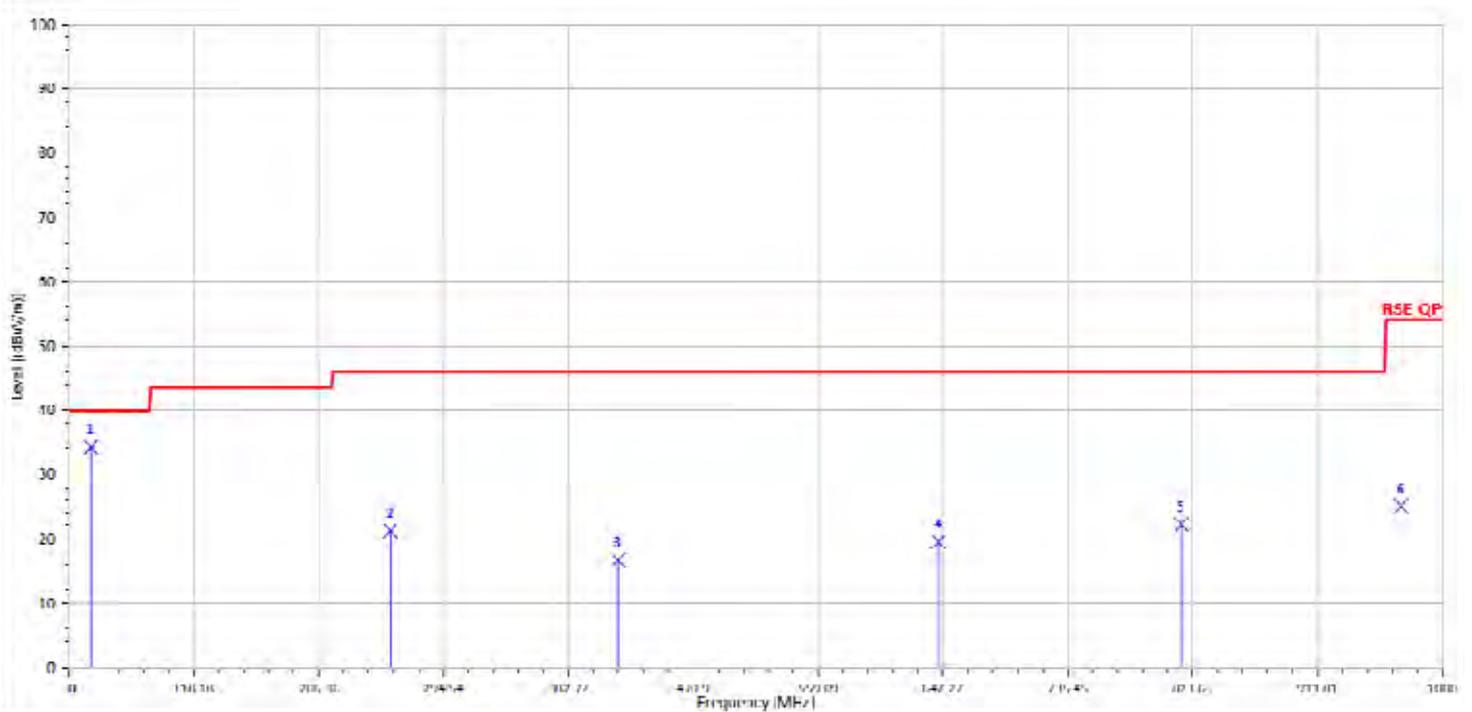
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802.11a 5250~5350 MHz

Operation Mode :	802.11aB2	Test Date :	2017/9/27
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



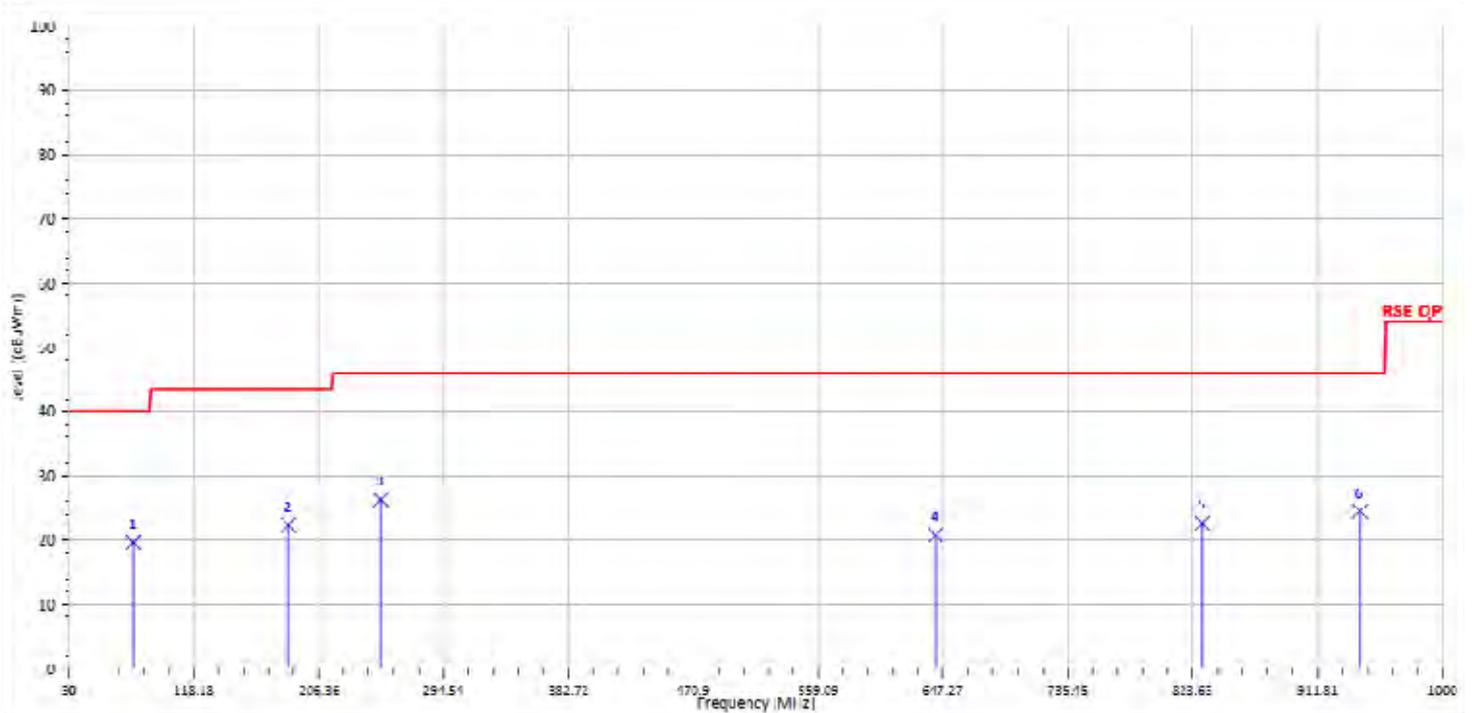
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
45.52	S	Peak	57.35	-23.16	34.19	40	-5.81
256.98	S	Peak	44.47	-23.26	21.21	46	-24.79
418.00	S	Peak	34.72	-18.06	16.66	46	-29.34
644.01	S	Peak	33.05	-13.55	19.51	46	-26.49
815.70	S	Peak	33.89	-11.66	22.23	46	-23.77
970.90	S	Peak	34.43	-9.35	25.08	54	-28.92

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Operation Mode : 802.11aB2      Test Date : 2017/9/27  
 Fundamental Frequency : 5300 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH Mid      Test Engineer : Enzo  
 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
75.59	S	Peak	46.36	-26.75	19.61	40	-20.39
185.20	S	Peak	47.26	-24.88	22.39	43.5	-21.11
250.19	S	Peak	49.60	-23.26	26.33	46	-19.67
642.07	S	Peak	34.38	-13.60	20.77	46	-25.23
830.25	S	Peak	33.76	-11.12	22.64	46	-23.36
941.80	S	Peak	34.12	-9.63	24.49	46	-21.51

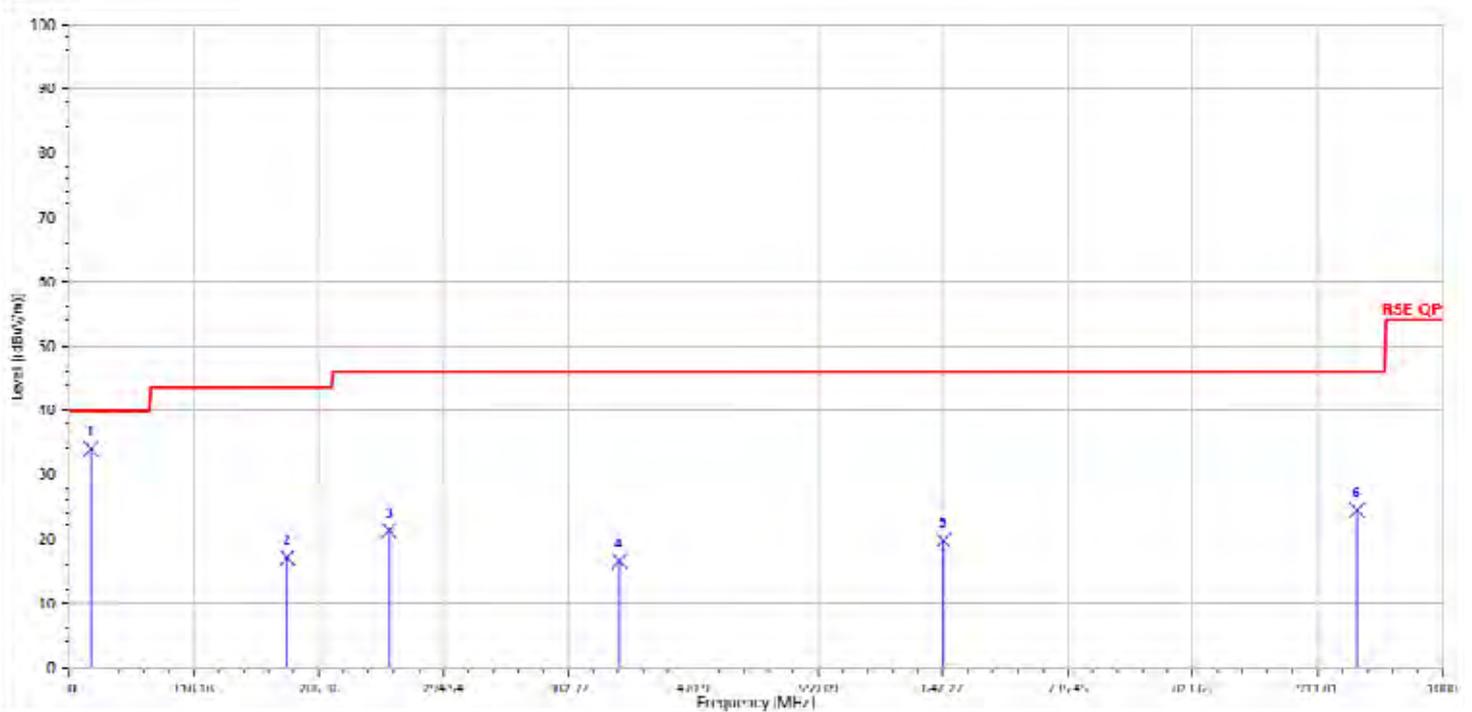
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802.11a, 5470~5725 MHz

Operation Mode :	802.11aB3	Test Date :	2017/9/27
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



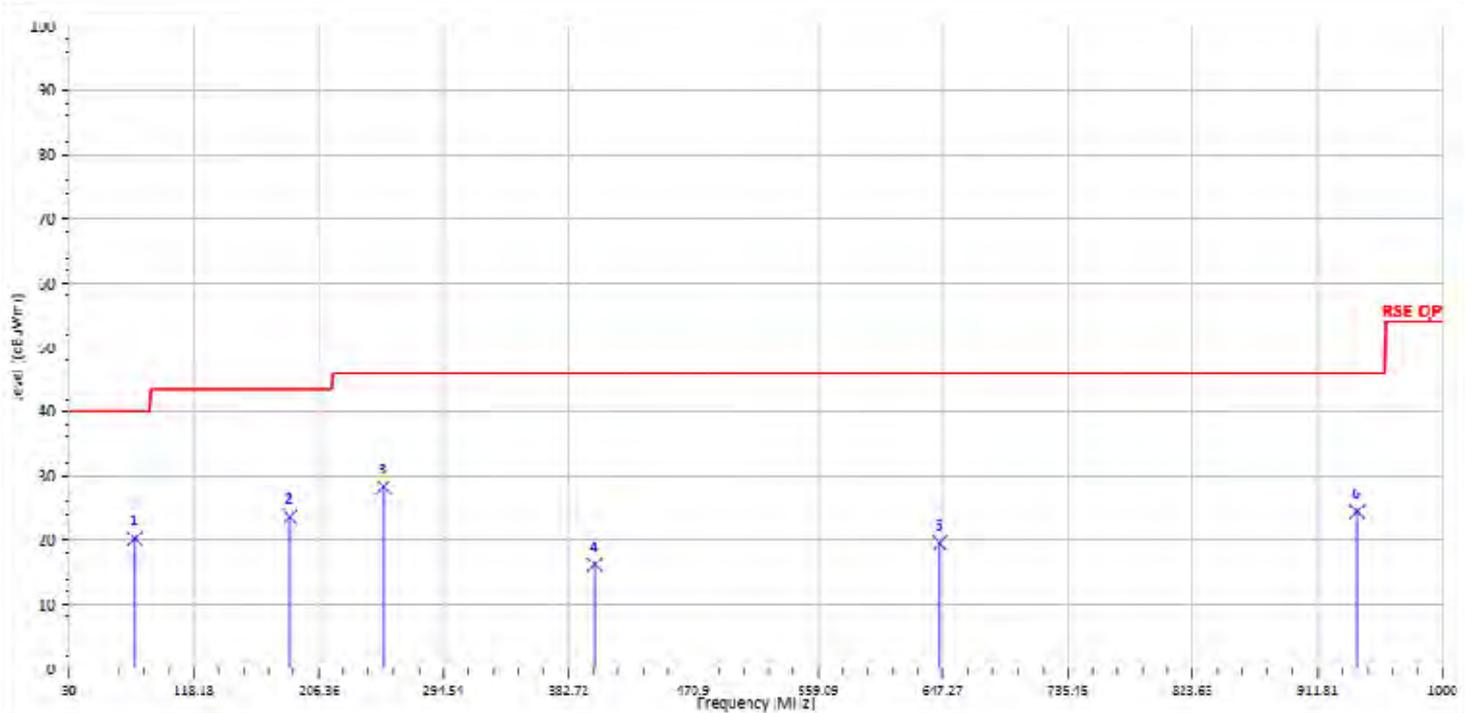
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
45.52	S	Peak	57.10	-23.16	33.94	40	-6.06
184.23	S	Peak	41.86	-24.84	17.02	43.5	-26.48
256.01	S	Peak	44.55	-23.26	21.29	46	-24.71
418.97	S	Peak	34.58	-18.06	16.52	46	-29.48
647.89	S	Peak	33.21	-13.44	19.77	46	-26.23
939.86	S	Peak	34.07	-9.61	24.47	46	-21.53

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Operation Mode : 802.11aB3      Test Date : 2017/9/27  
 Fundamental Frequency : 5580 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH Mid      Test Engineer : Enzo  
 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
76.56	S	Peak	47.19	-26.99	20.20	40	-19.80
186.17	S	Peak	48.51	-24.91	23.60	43.5	-19.90
252.13	S	Peak	51.52	-23.26	28.26	46	-17.74
401.51	S	Peak	34.80	-18.61	16.19	46	-29.81
644.98	S	Peak	33.05	-13.52	19.53	46	-26.47
939.86	S	Peak	34.03	-9.61	24.43	46	-21.57

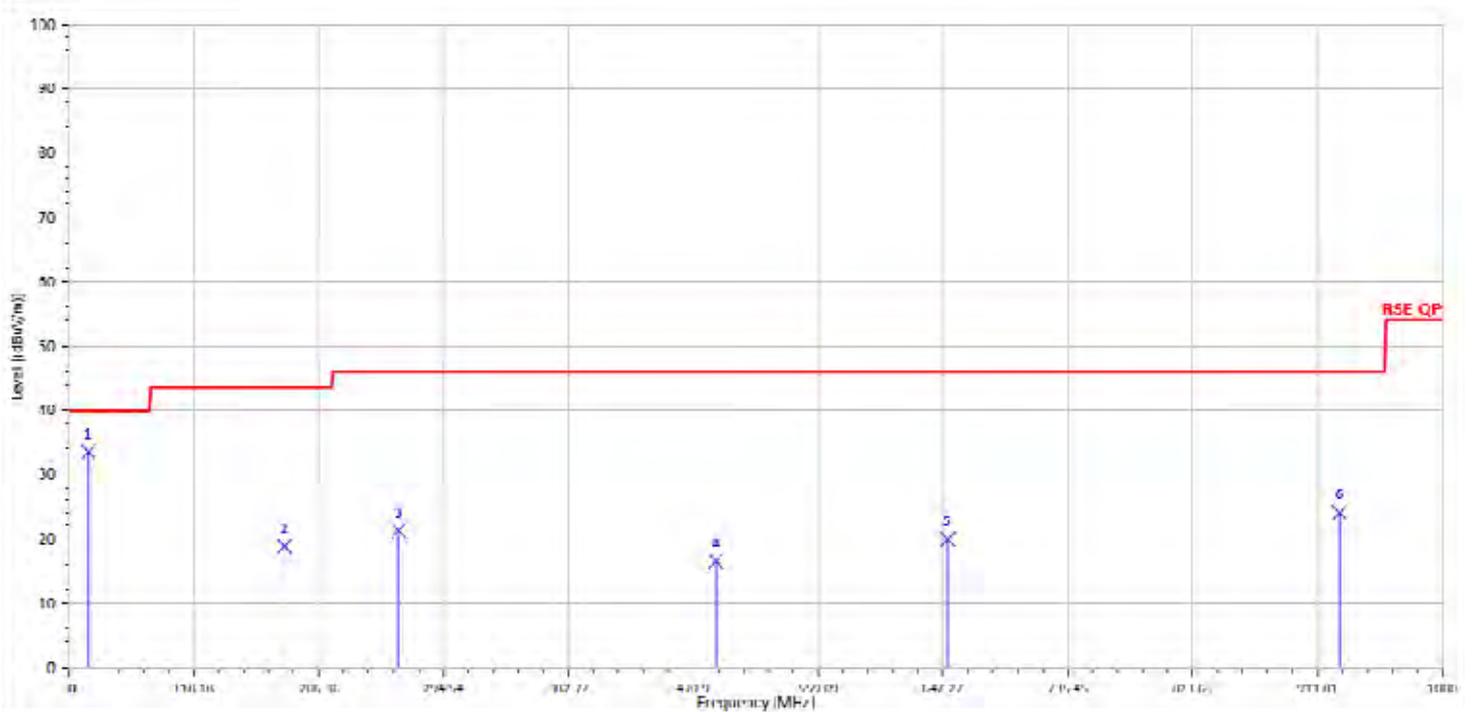
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802.11a, 5725~5850 MHz

Operation Mode :	802.11aB4	Test Date :	2017/9/27
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



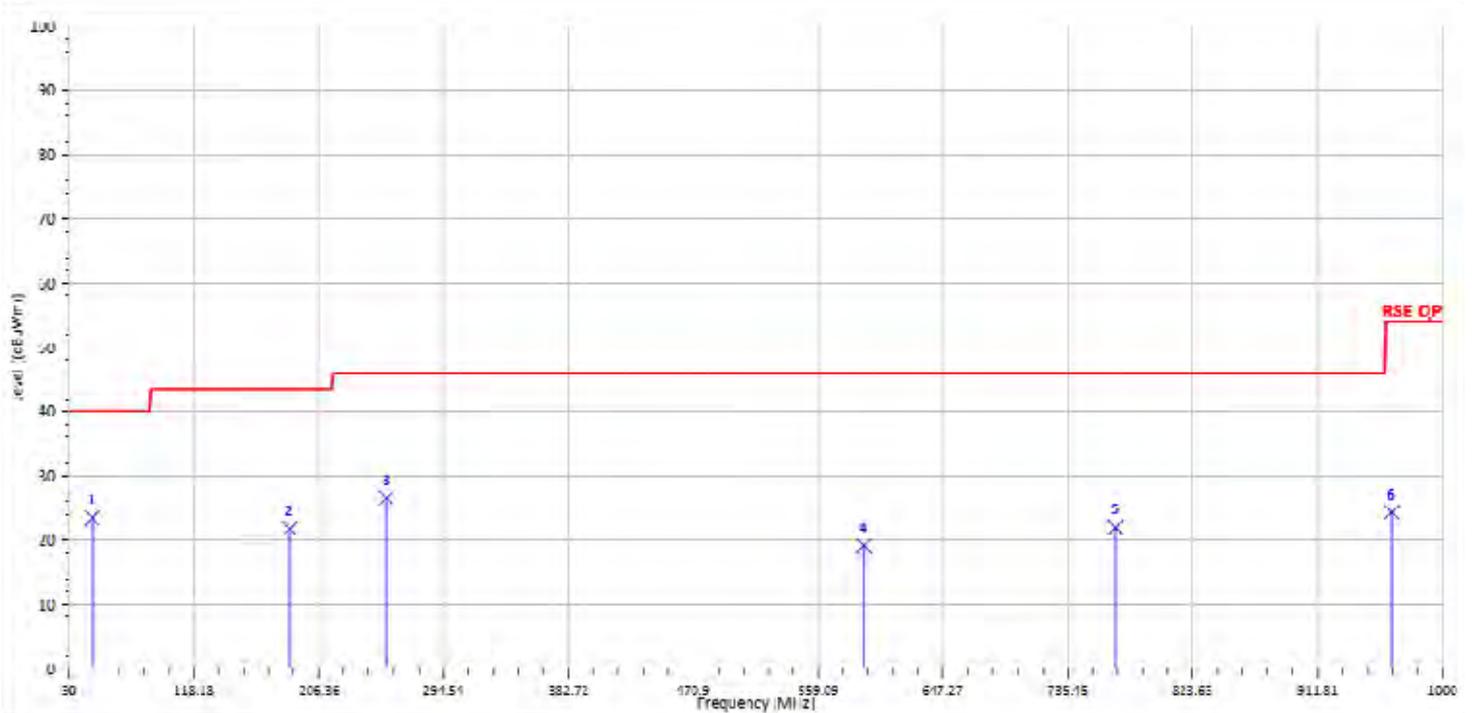
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
43.58	S	Peak	56.60	-23.10	33.50	40	-6.50
182.29	S	Peak	43.60	-24.78	18.82	43.5	-24.68
262.80	S	Peak	44.35	-23.07	21.28	46	-24.72
486.87	S	Peak	33.68	-17.17	16.51	46	-29.49
650.80	S	Peak	33.34	-13.40	19.94	46	-26.06
927.25	S	Peak	33.84	-9.77	24.06	46	-21.94

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Operation Mode : 802.11aB4      Test Date : 2017/9/27  
 Fundamental Frequency : 5785 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH Mid      Test Engineer : Enzo  
 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
46.49	S	Peak	46.72	-23.28	23.44	40	-16.56
186.17	S	Peak	46.69	-24.91	21.78	43.5	-21.72
254.07	S	Peak	49.82	-23.26	26.56	46	-19.44
591.63	S	Peak	33.62	-14.49	19.12	46	-26.88
769.14	S	Peak	33.50	-11.52	21.98	46	-24.02
964.11	S	Peak	33.86	-9.53	24.33	54	-29.67

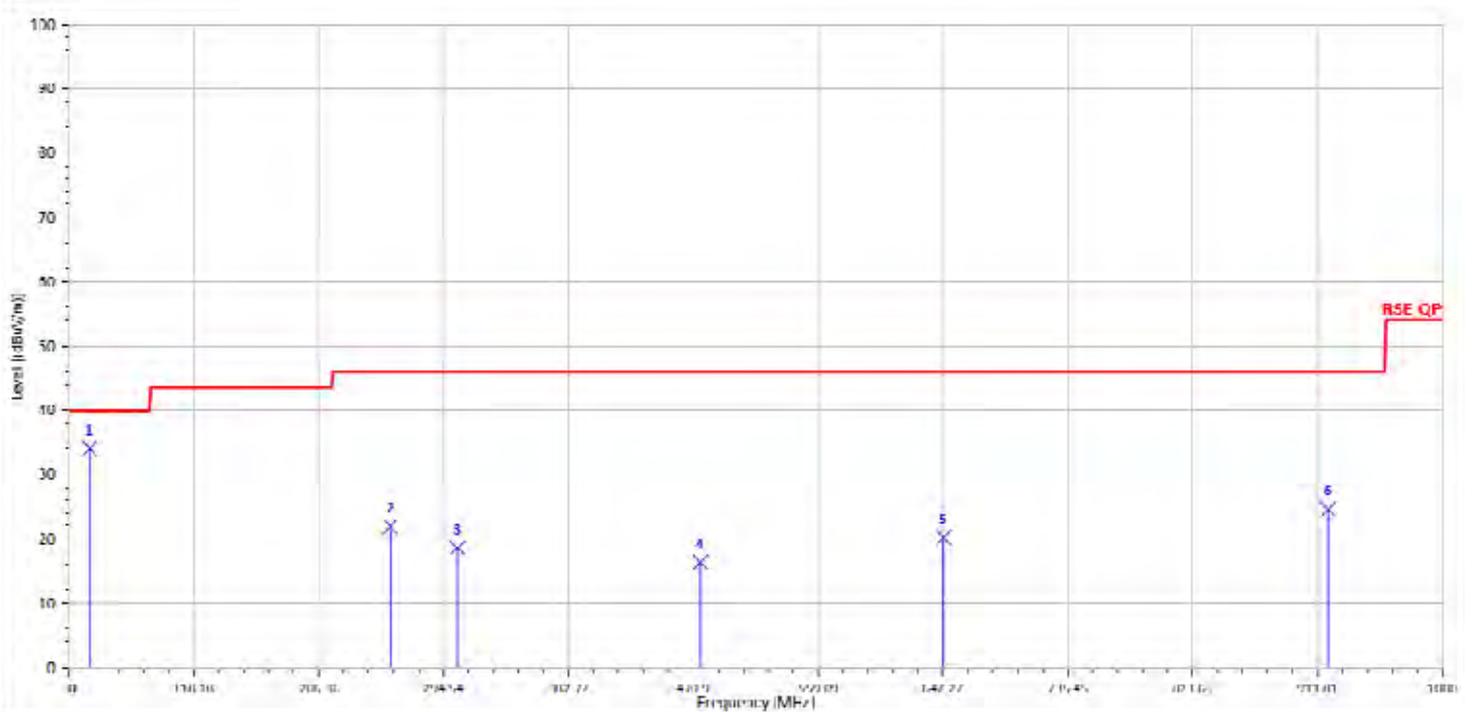
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**802.11ac VHT80, 5150~5250 MHz**

Operation Mode :	802.11ac80B1	Test Date :	2017/9/27
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



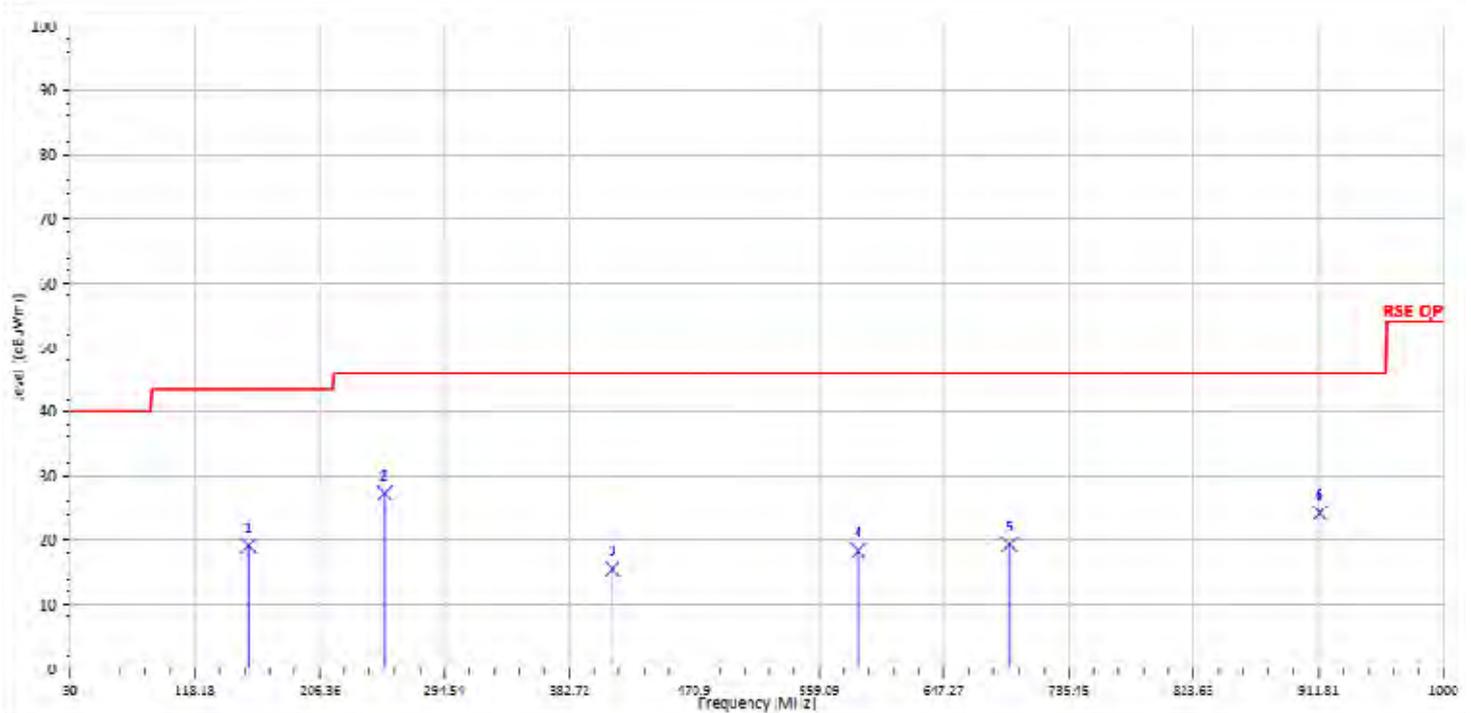
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
44.55	S	Peak	57.11	-23.09	34.01	40	-5.99
256.98	S	Peak	45.14	-23.26	21.88	46	-24.12
304.51	S	Peak	40.04	-21.46	18.58	46	-27.42
476.20	S	Peak	33.35	-17.03	16.33	46	-29.67
647.89	S	Peak	33.64	-13.44	20.20	46	-25.80
919.49	S	Peak	34.57	-10.00	24.57	46	-21.43

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Operation Mode : 802.11ac80B1      Test Date : 2017/9/27  
 Fundamental Frequency : 5210 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH Low      Test Engineer : Enzo  
 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
156.10	S	Peak	41.29	-22.15	19.14	43.5	-24.36
252.13	S	Peak	50.55	-23.26	27.29	46	-18.71
413.15	S	Peak	33.52	-18.05	15.47	46	-30.53
586.78	S	Peak	32.84	-14.47	18.37	46	-27.63
693.48	S	Peak	32.63	-13.31	19.32	46	-26.68
912.70	S	Peak	34.29	-10.07	24.22	46	-21.78

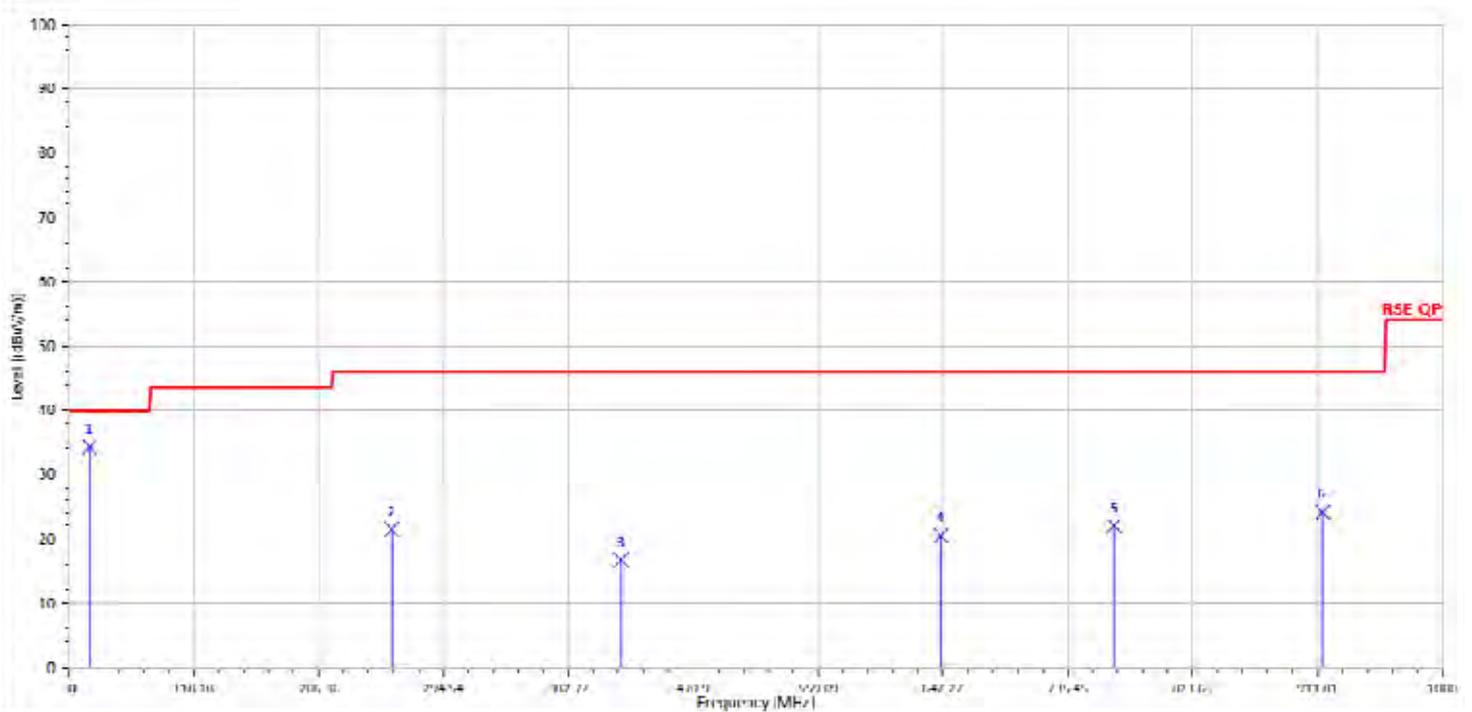
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**802.11ac VHT80, 5250~5350 MHz**

Operation Mode :	802.11ac80B2	Test Date :	2017/9/27
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH High	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



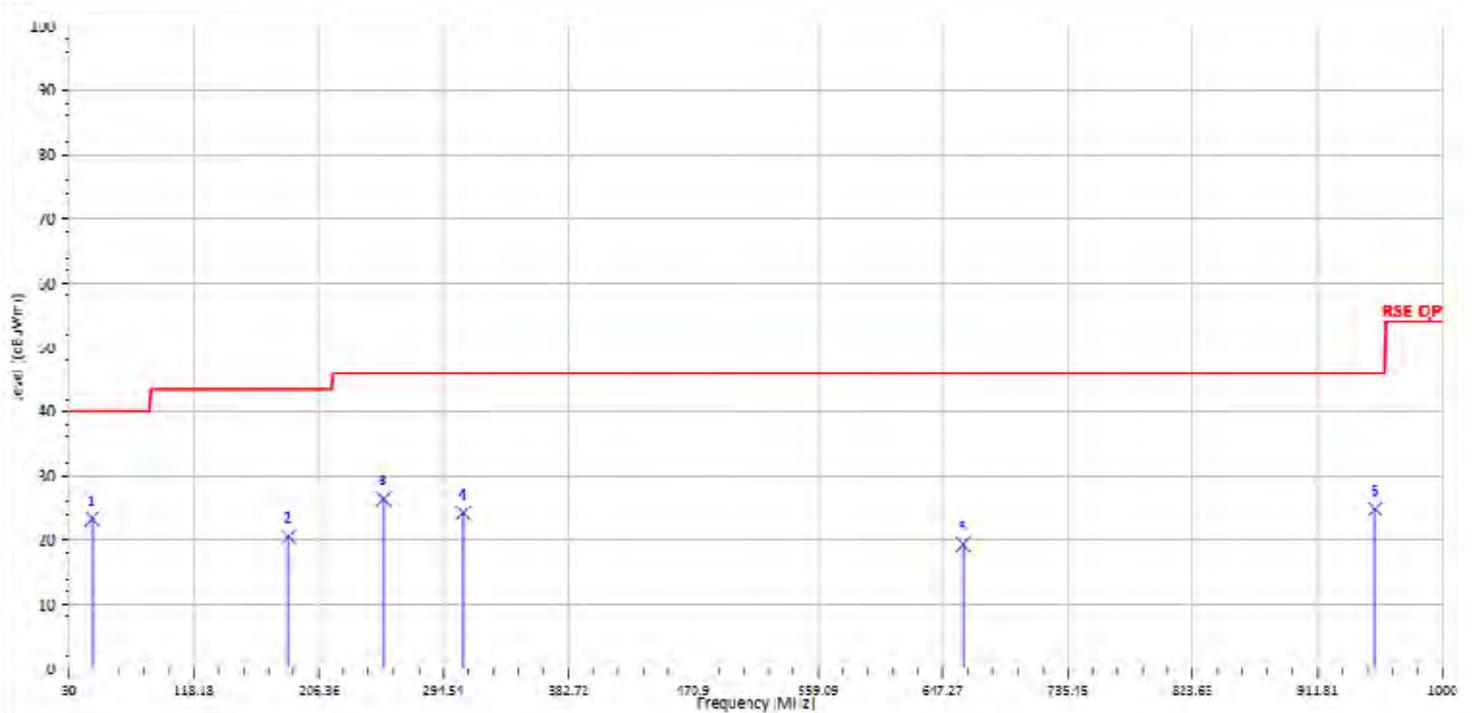
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
44.55	S	Peak	57.32	-23.09	34.23	40	-5.77
257.95	S	Peak	44.69	-23.26	21.43	46	-24.57
419.94	S	Peak	34.76	-18.06	16.69	46	-29.31
645.95	S	Peak	33.96	-13.49	20.47	46	-25.53
768.17	S	Peak	33.49	-11.51	21.98	46	-24.02
915.61	S	Peak	34.20	-10.04	24.16	46	-21.84

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Operation Mode : 802.11ac80B2      Test Date : 2017/9/27  
 Fundamental Frequency : 5290 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH High      Test Engineer : Enzo  
 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
46.49	S	Peak	46.61	-23.28	23.33	40	-16.67
185.20	S	Peak	45.44	-24.88	20.56	43.5	-22.94
252.13	S	Peak	49.69	-23.26	26.43	46	-19.57
308.39	S	Peak	45.54	-21.30	24.24	46	-21.76
661.47	S	Peak	33.04	-13.72	19.32	46	-26.68
952.47	S	Peak	34.58	-9.72	24.86	46	-21.14

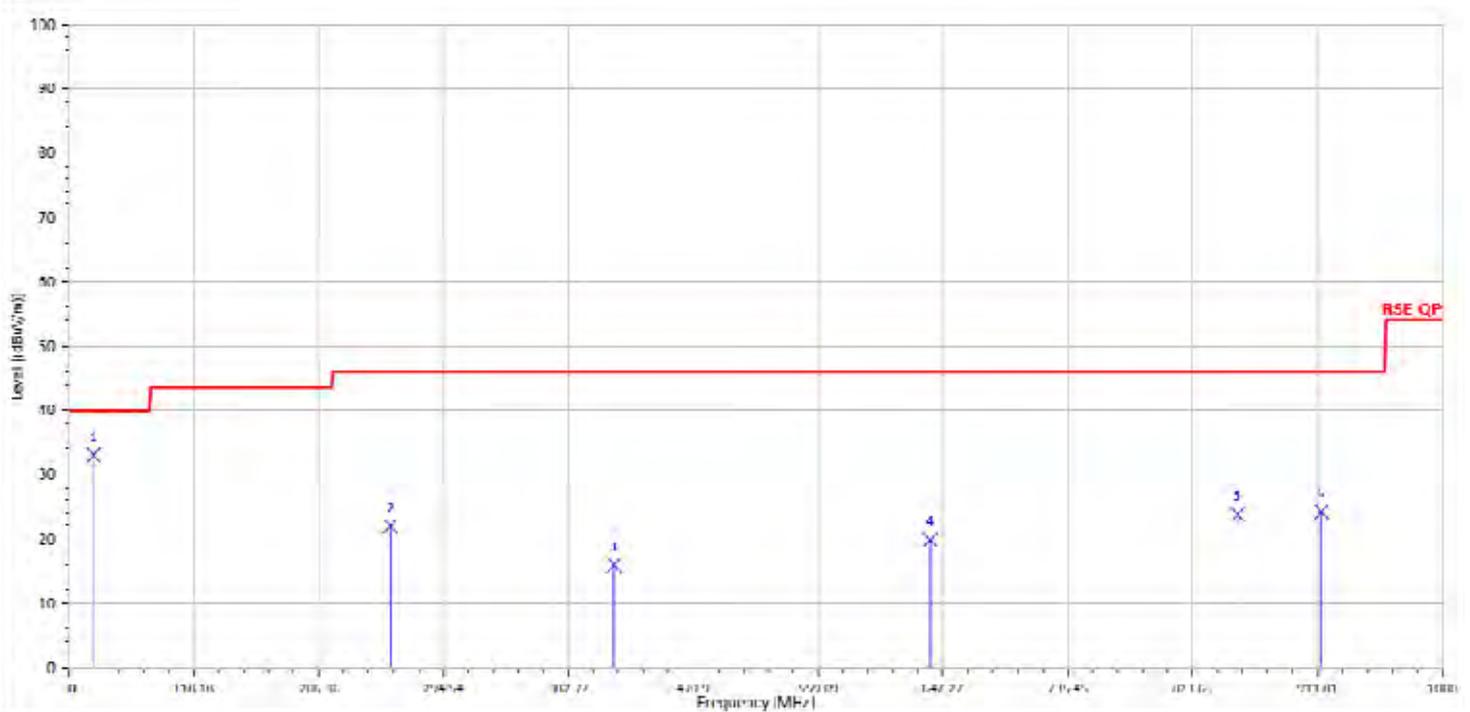
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### 802.11ac VHT80, 5470~5725 MHz

Operation Mode :	802.11ac80B3	Test Date :	2017/9/27
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH Mid	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



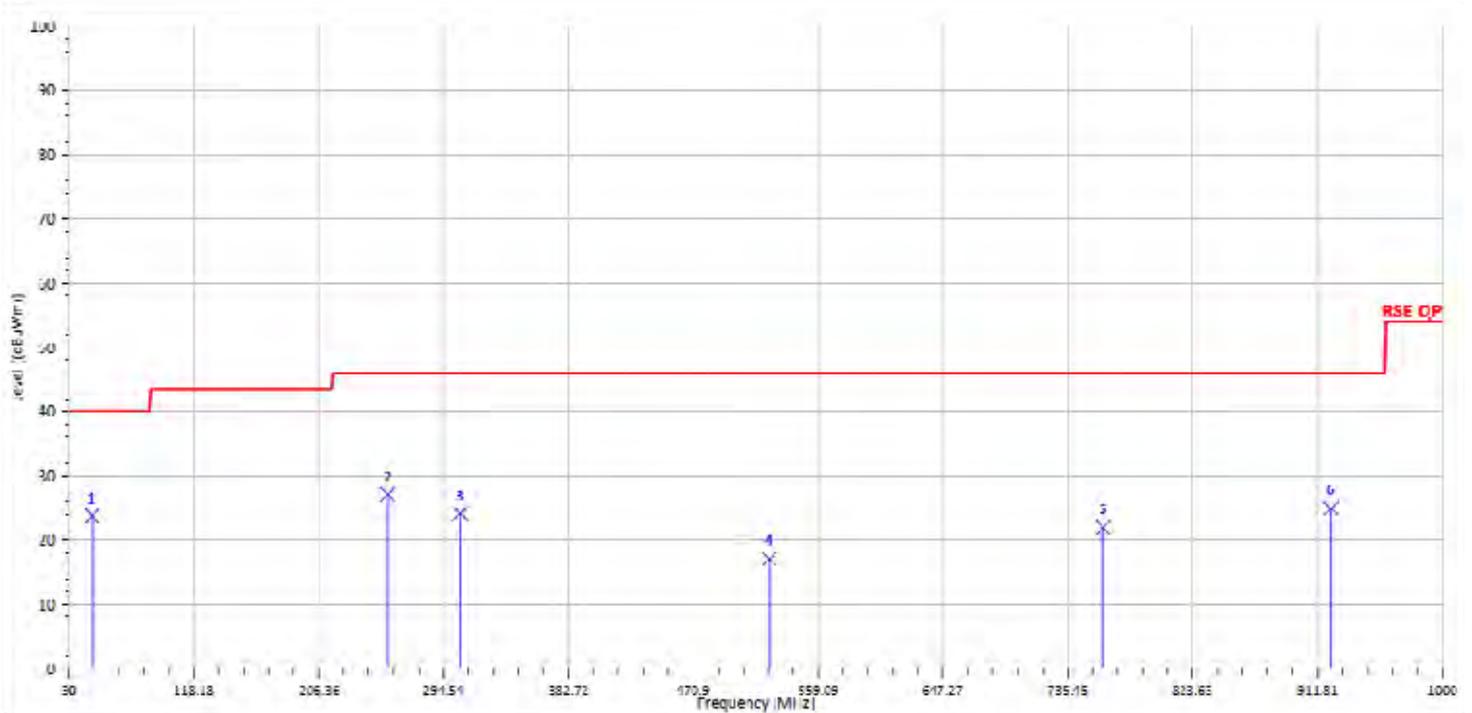
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
47.46	S	Peak	56.43	-23.41	33.02	40	-6.98
256.98	S	Peak	45.21	-23.26	21.94	46	-24.06
415.09	S	Peak	34.01	-18.05	15.96	46	-30.04
638.19	S	Peak	33.62	-13.78	19.84	46	-26.16
855.47	S	Peak	34.97	-11.17	23.80	46	-22.20
914.64	S	Peak	34.26	-10.05	24.21	46	-21.79

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Operation Mode : 802.11ac80B3 Test Date : 2017/9/27  
 Fundamental Frequency : 5610 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH Mid Test Engineer : Enzo  
 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
46.49	S	Peak	47.05	-23.28	23.77	40	-16.23
255.04	S	Peak	50.39	-23.26	27.13	46	-18.87
306.45	S	Peak	45.50	-21.38	24.12	46	-21.88
524.70	S	Peak	33.44	-16.35	17.09	46	-28.91
760.41	S	Peak	33.44	-11.42	22.01	46	-23.99
921.43	S	Peak	34.89	-9.95	24.94	46	-21.06

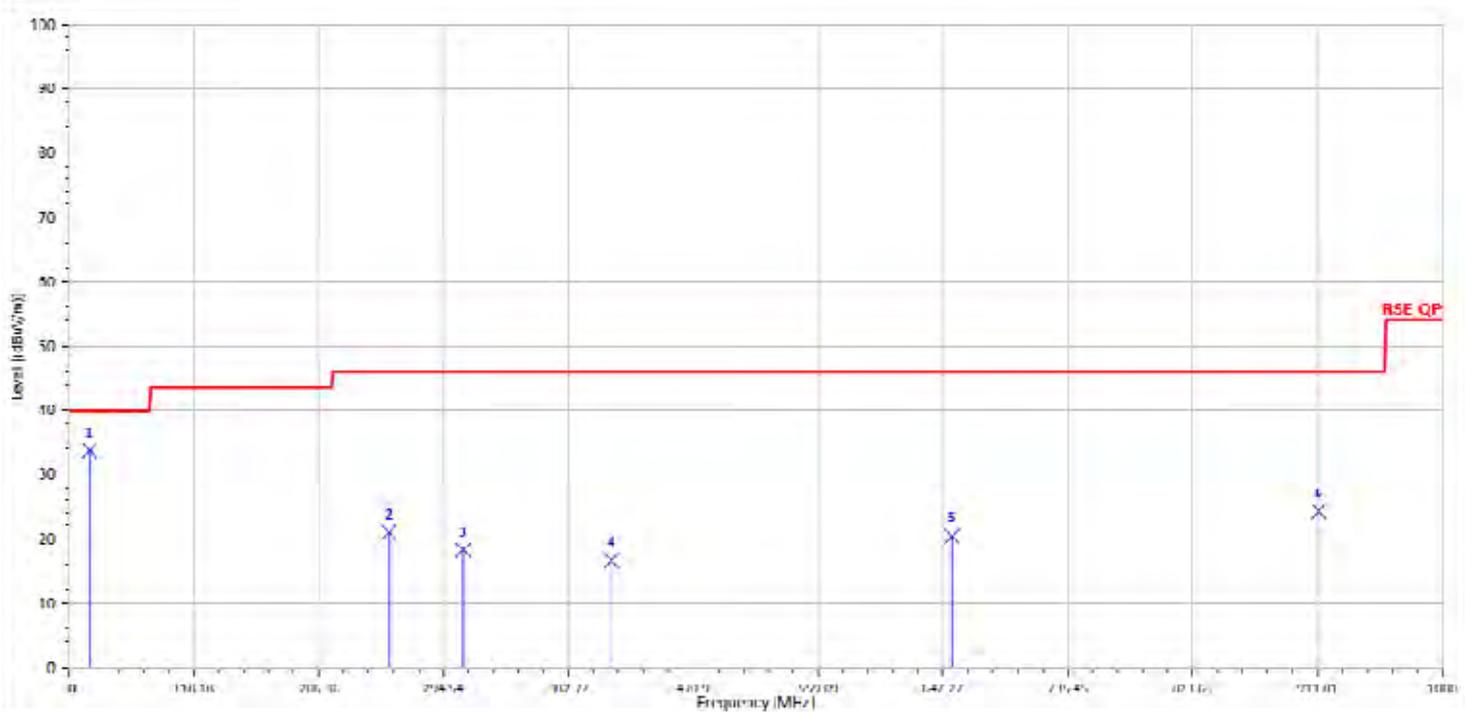
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### 802.11ac VHT80, 5725~5850 MHz

Operation Mode :	802.11ac80B4	Test Date :	2017/9/27
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH Low	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



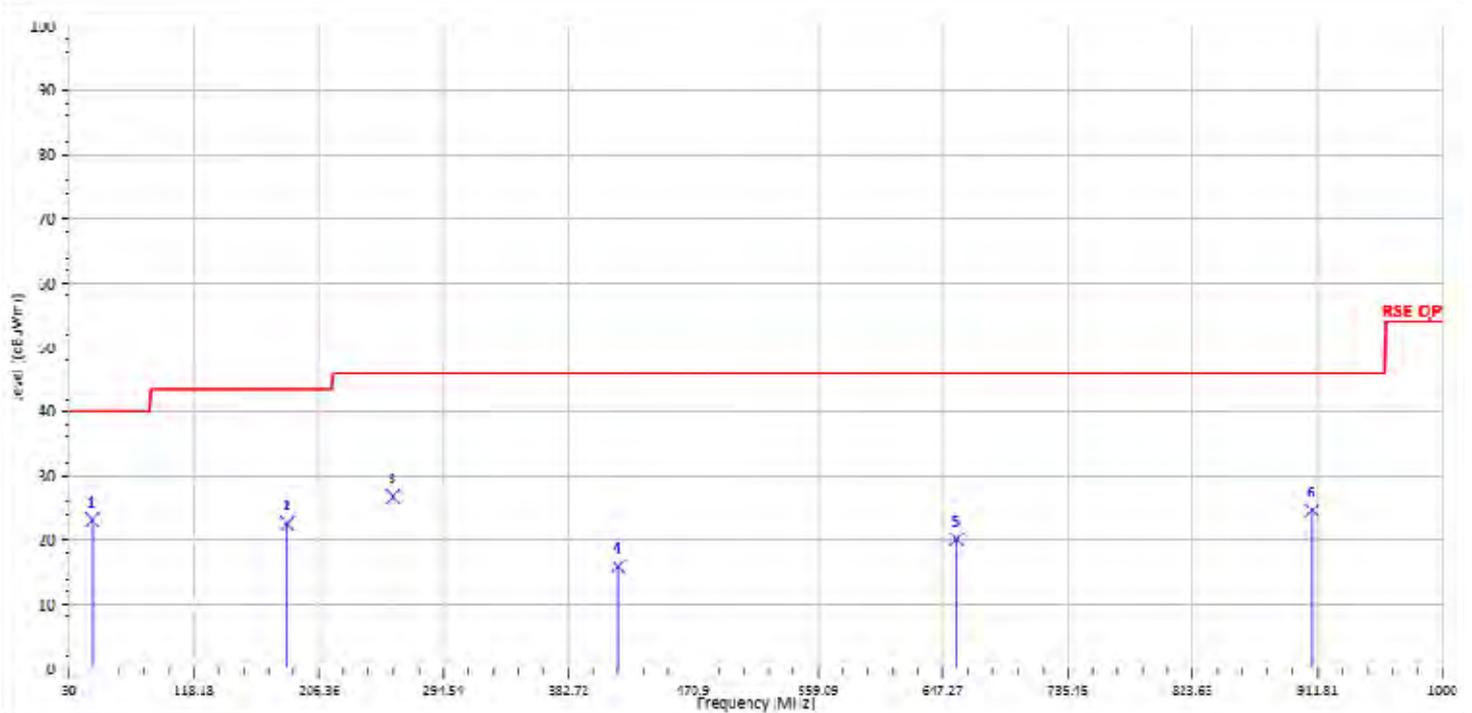
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
44.55	S	Peak	56.78	-23.09	33.69	40	-6.31
256.01	S	Peak	44.25	-23.26	20.99	46	-25.01
308.39	S	Peak	39.54	-21.30	18.23	46	-27.77
413.15	S	Peak	34.66	-18.05	16.61	46	-29.39
653.71	S	Peak	33.87	-13.47	20.40	46	-25.60
912.70	S	Peak	34.38	-10.07	24.31	46	-21.69

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Operation Mode : 802.11ac80B4      Test Date : 2017/9/27  
 Fundamental Frequency : 5775 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH Low      Test Engineer : Enzo  
 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
46.49	S	Peak	46.45	-23.28	23.17	40	-16.83
184.23	S	Peak	47.44	-24.84	22.60	43.5	-20.90
258.92	S	Peak	50.04	-23.26	26.78	46	-19.22
418.00	S	Peak	33.92	-18.06	15.86	46	-30.14
656.62	S	Peak	33.65	-13.55	20.10	46	-25.90
907.85	S	Peak	34.74	-10.08	24.65	46	-21.35

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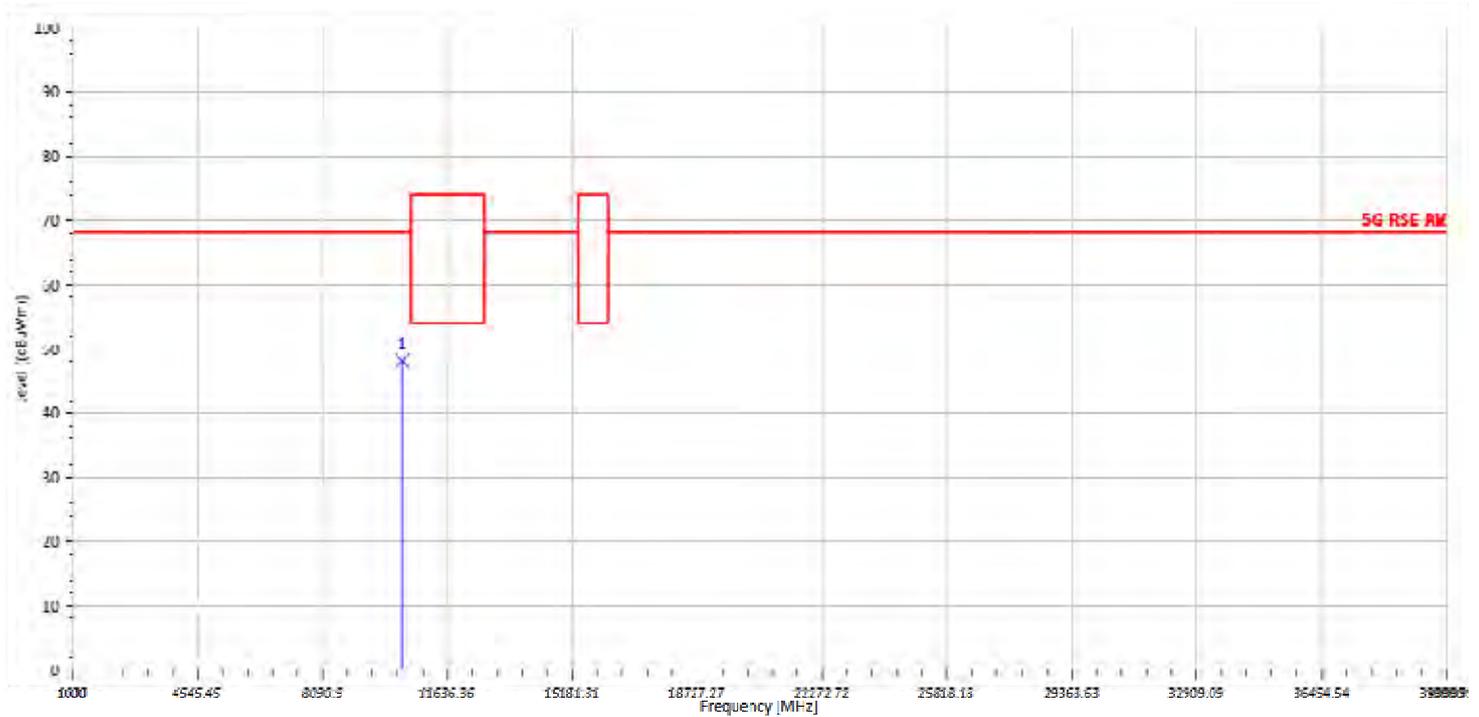
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**Above 1GHz Worst-Case Data:**

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

Operation Mode :	802.11aB1	Test Date :	2017/9/27
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



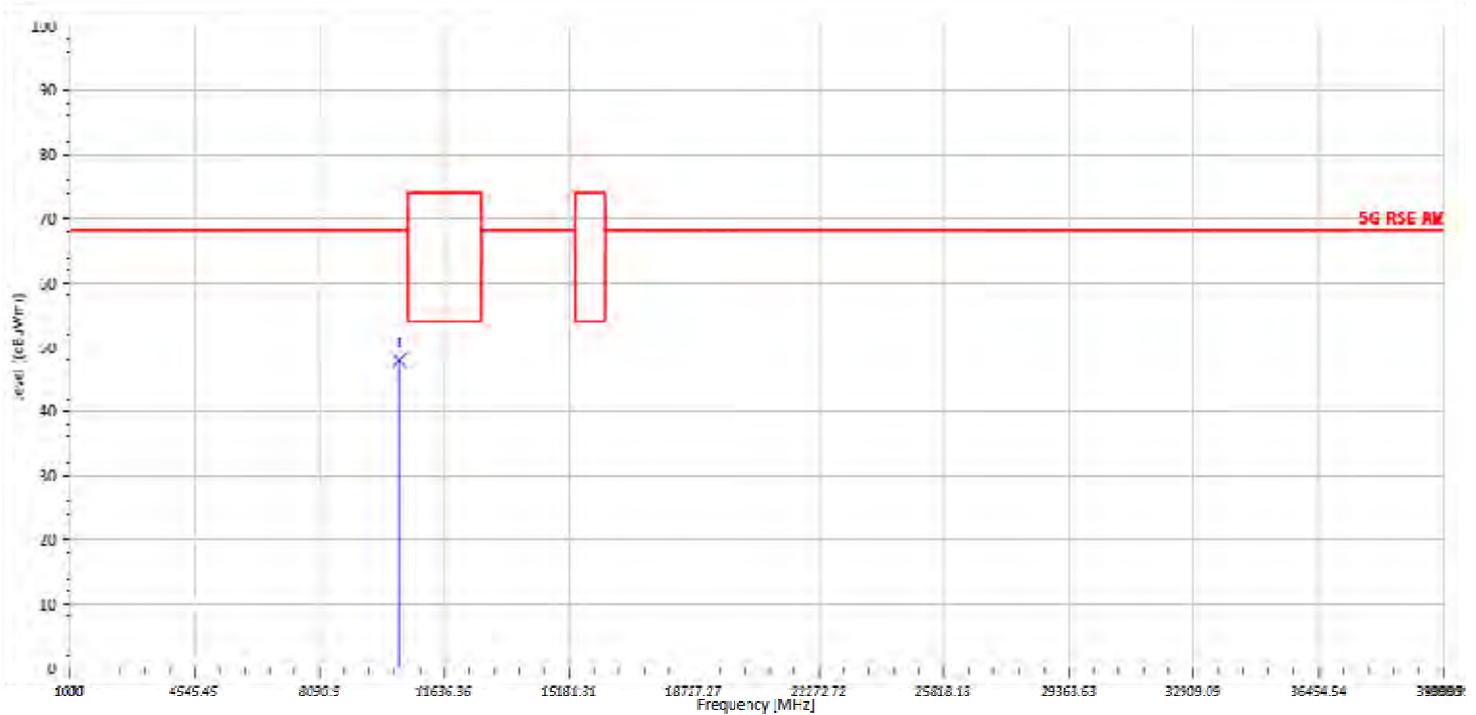
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	H	Peak	38.90	9.27	48.17	68.3	-20.13

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Operation Mode :	802.11aB1	Test Date :	2017/9/27
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



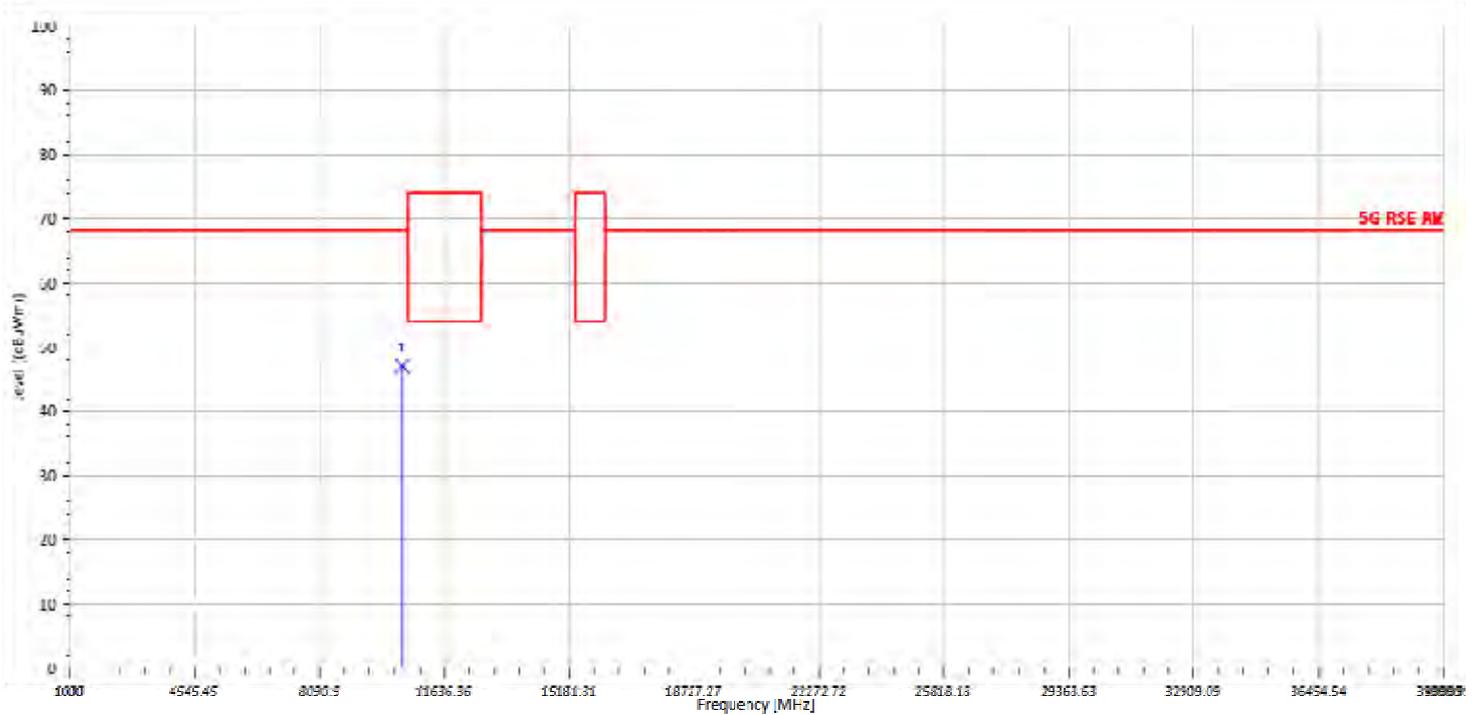
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	H	Peak	38.73	9.27	48.00	68.3	-20.30

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Operation Mode : 802.11aB1      Test Date : 2017/9/27  
 Fundamental Frequency : 5220 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH MID      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Vertical



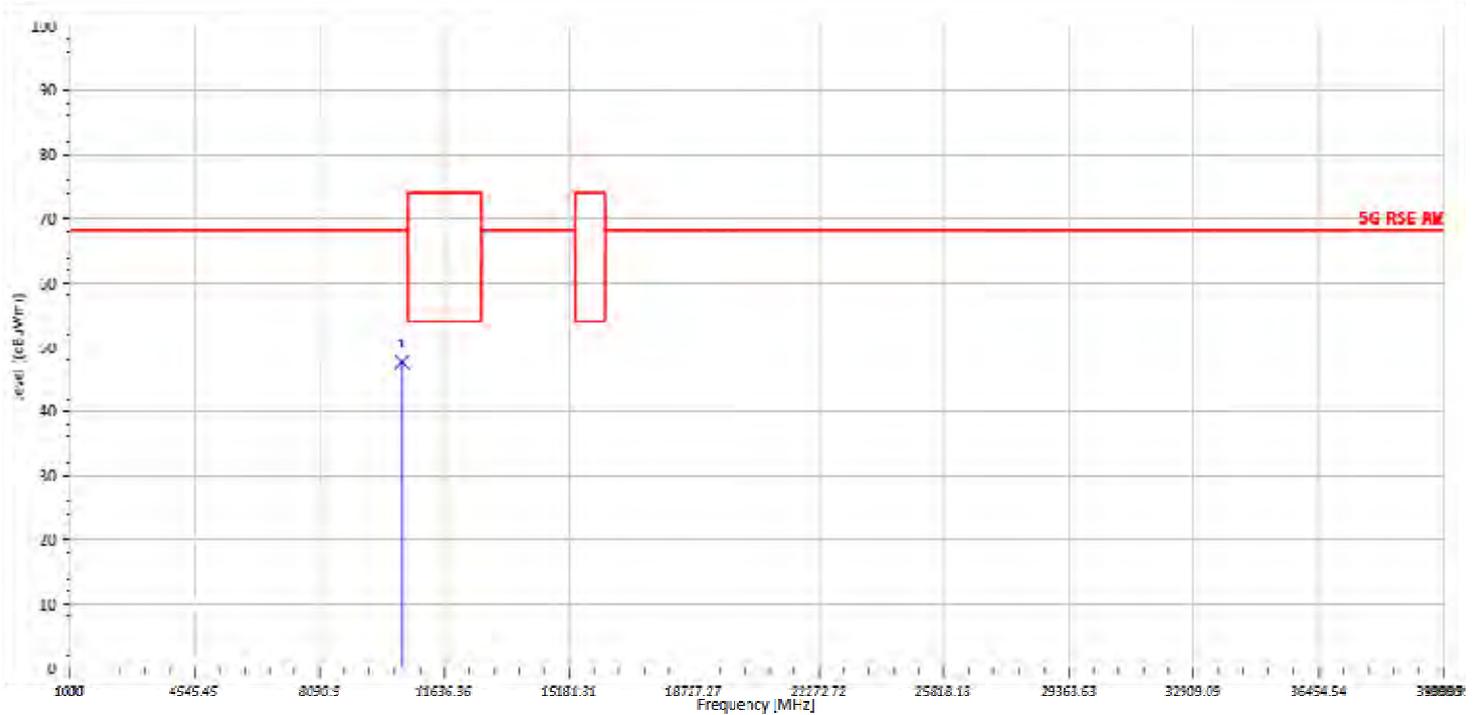
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	H	Peak	37.59	9.57	47.16	68.3	-21.14

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Operation Mode : 802.11aB1      Test Date : 2017/9/27  
 Fundamental Frequency : 5220 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH MID      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



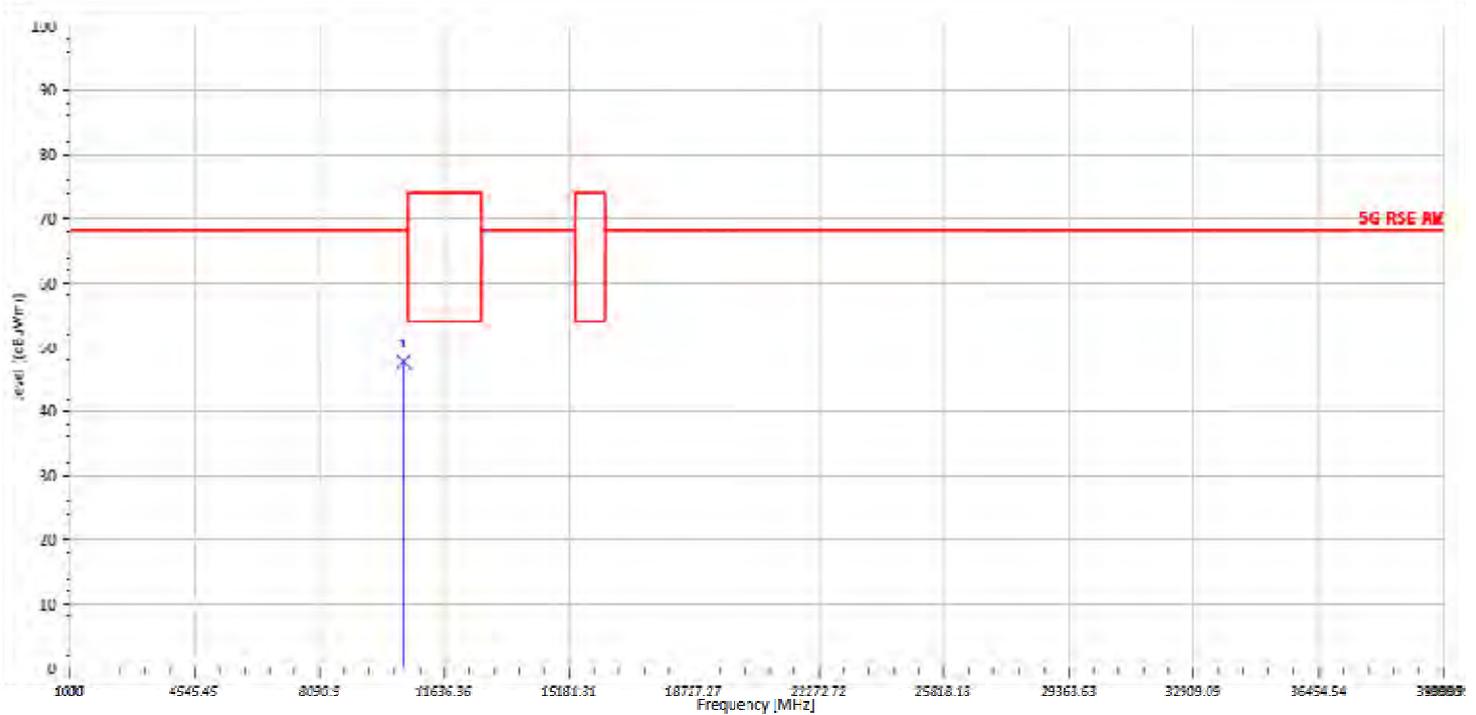
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	H	Peak	38.14	9.57	47.71	68.3	-20.59

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Operation Mode : 802.11aB1      Test Date : 2017/9/27  
 Fundamental Frequency : 5240 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH HIGH      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Vertical



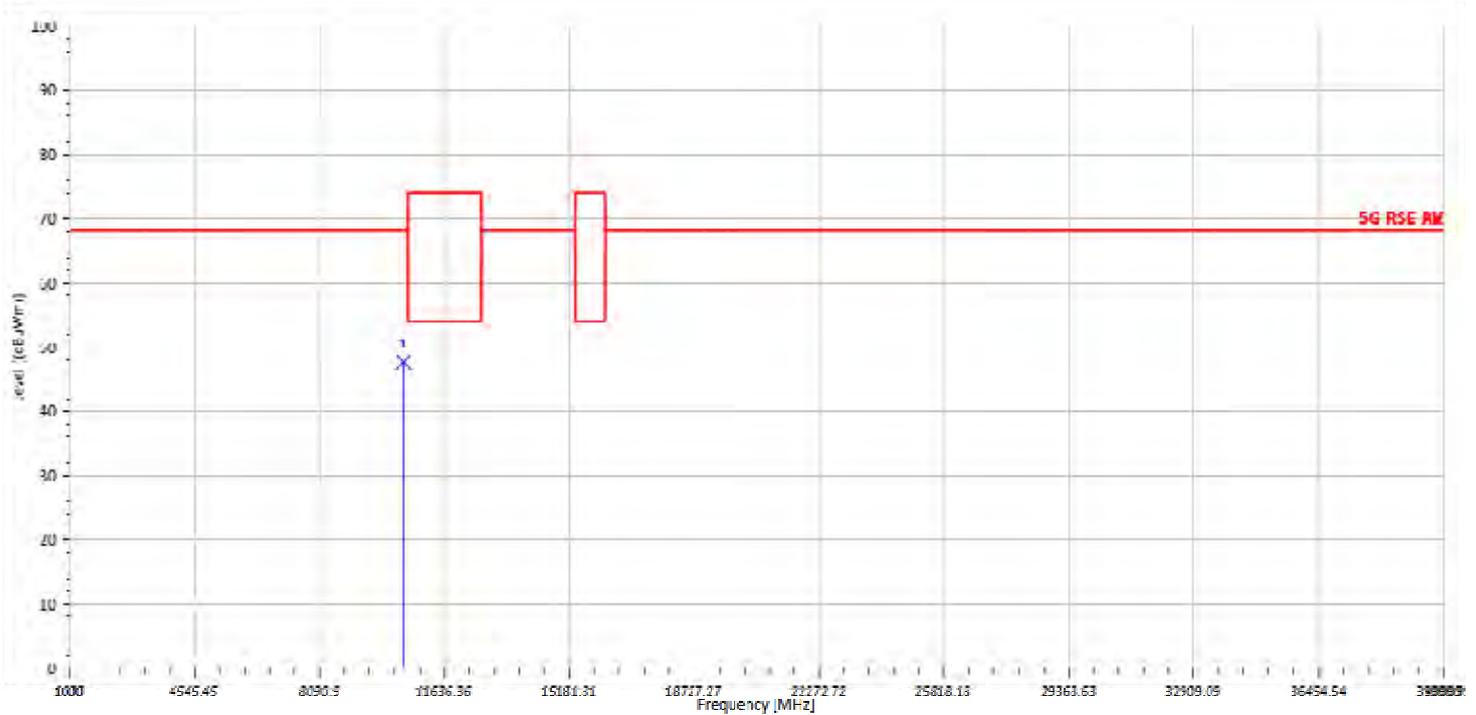
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	H	Peak	38.13	9.64	47.78	68.3	-20.52

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Operation Mode : 802.11aB1 Test Date : 2017/9/27  
 Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH HIGH Test Engineer : Enzo  
 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	38.07	9.64	47.72	68.3	-20.58

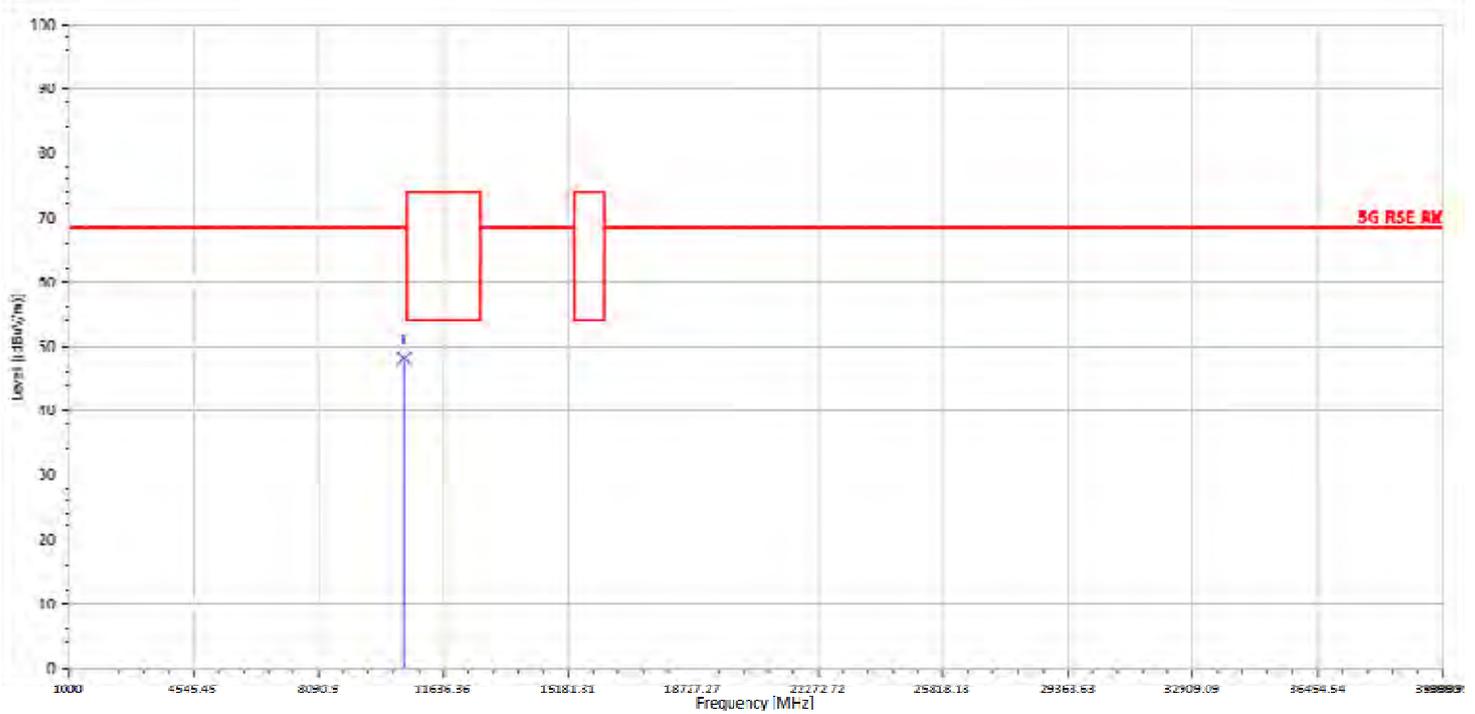
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### Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode :	802.11aB2	Test Date :	2017/9/27
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



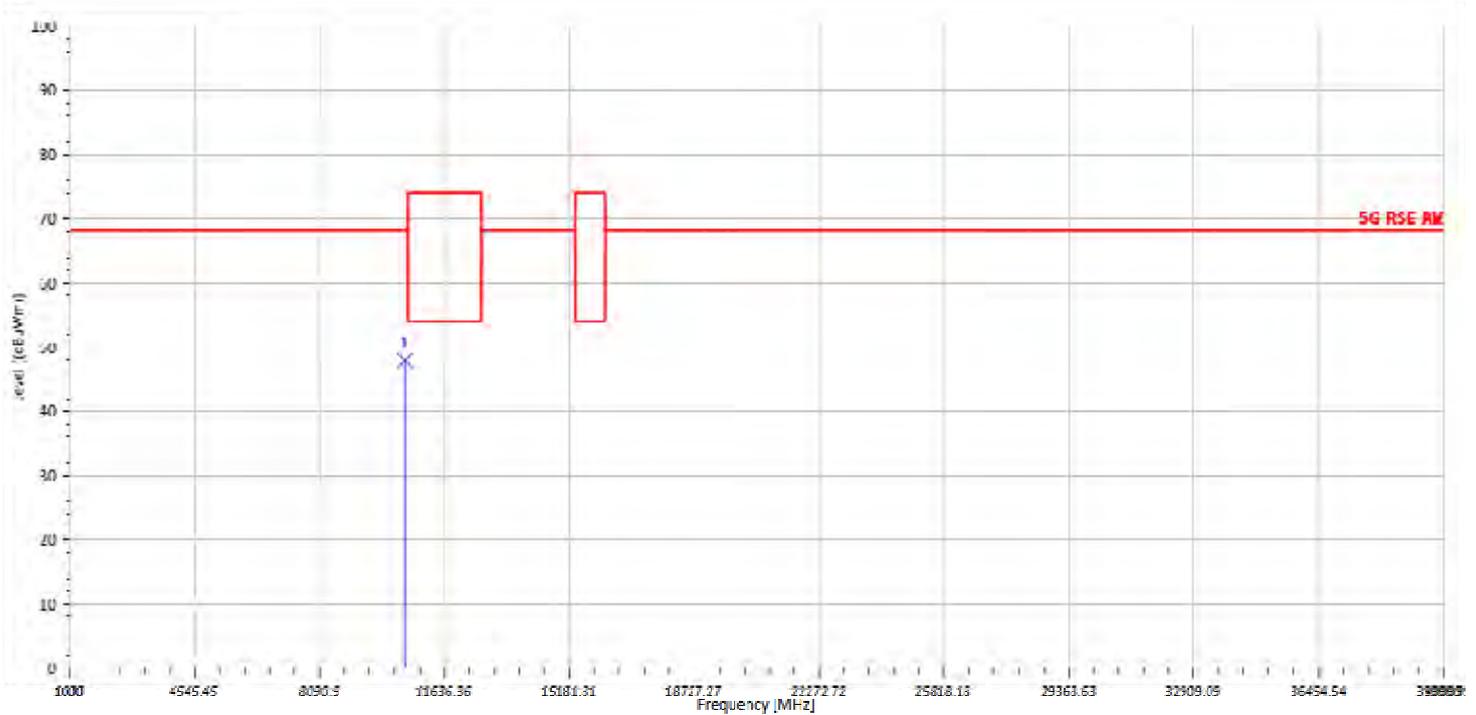
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10520.00	H	Peak	38.34	9.77	48.12	68.3	-20.18

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Operation Mode :	802.11aB2	Test Date :	2017/9/27
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



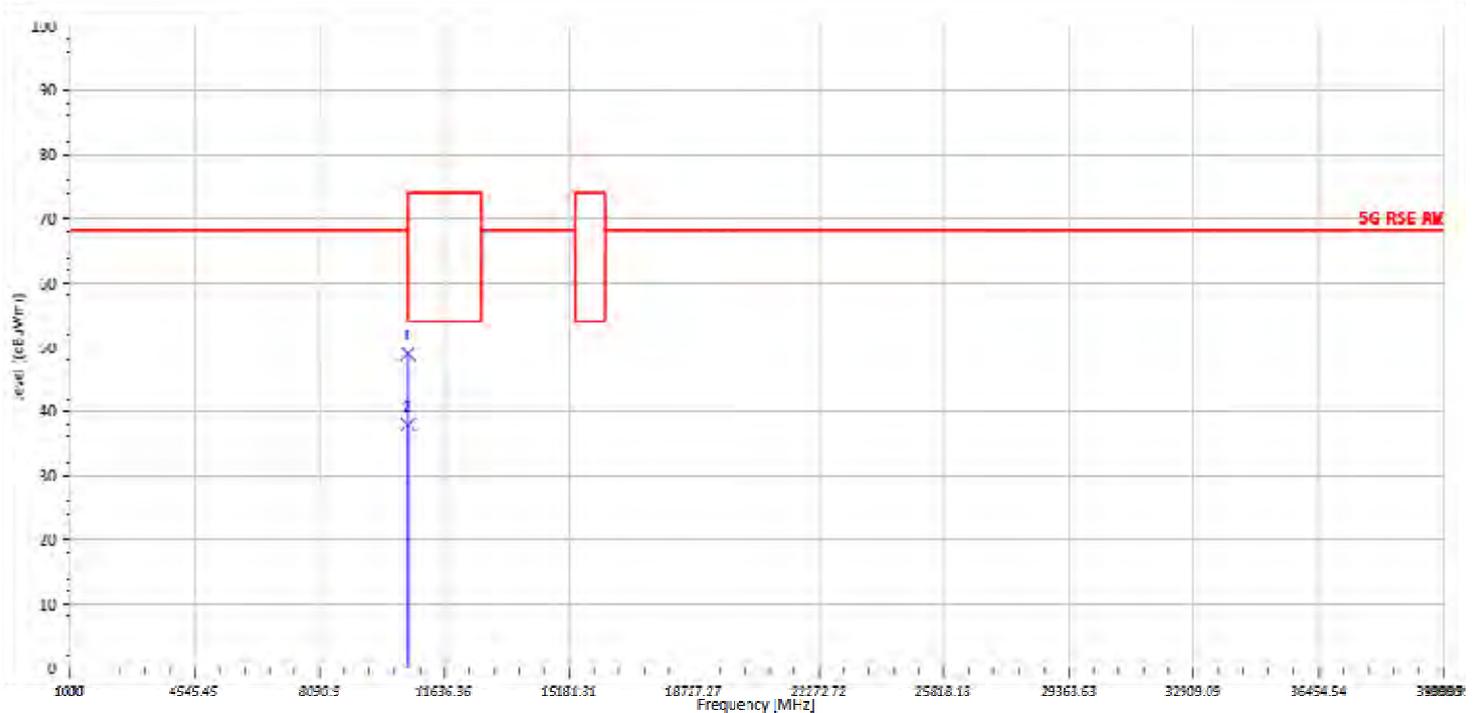
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	H	Peak	38.19	9.77	47.96	68.3	-20.34

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Operation Mode : 802.11aB2      Test Date : 2017/9/27  
 Fundamental Frequency : 5300 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH MID      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Vertical



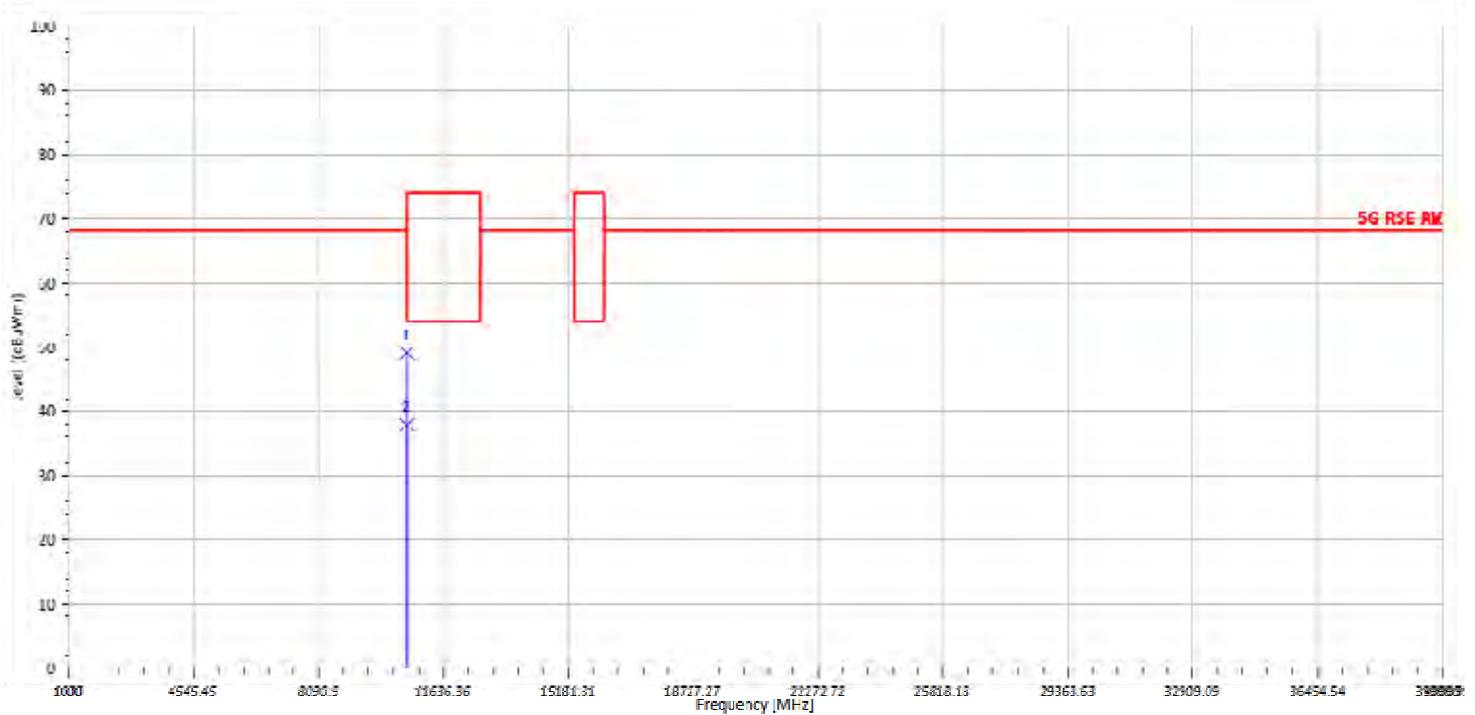
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	H	Peak	38.83	10.15	48.97	74	-25.03
10600.00	H	Average	27.80	10.15	37.94	54	-16.06

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Operation Mode : 802.11aB2      Test Date : 2017/9/27  
 Fundamental Frequency : 5300 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH MID      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



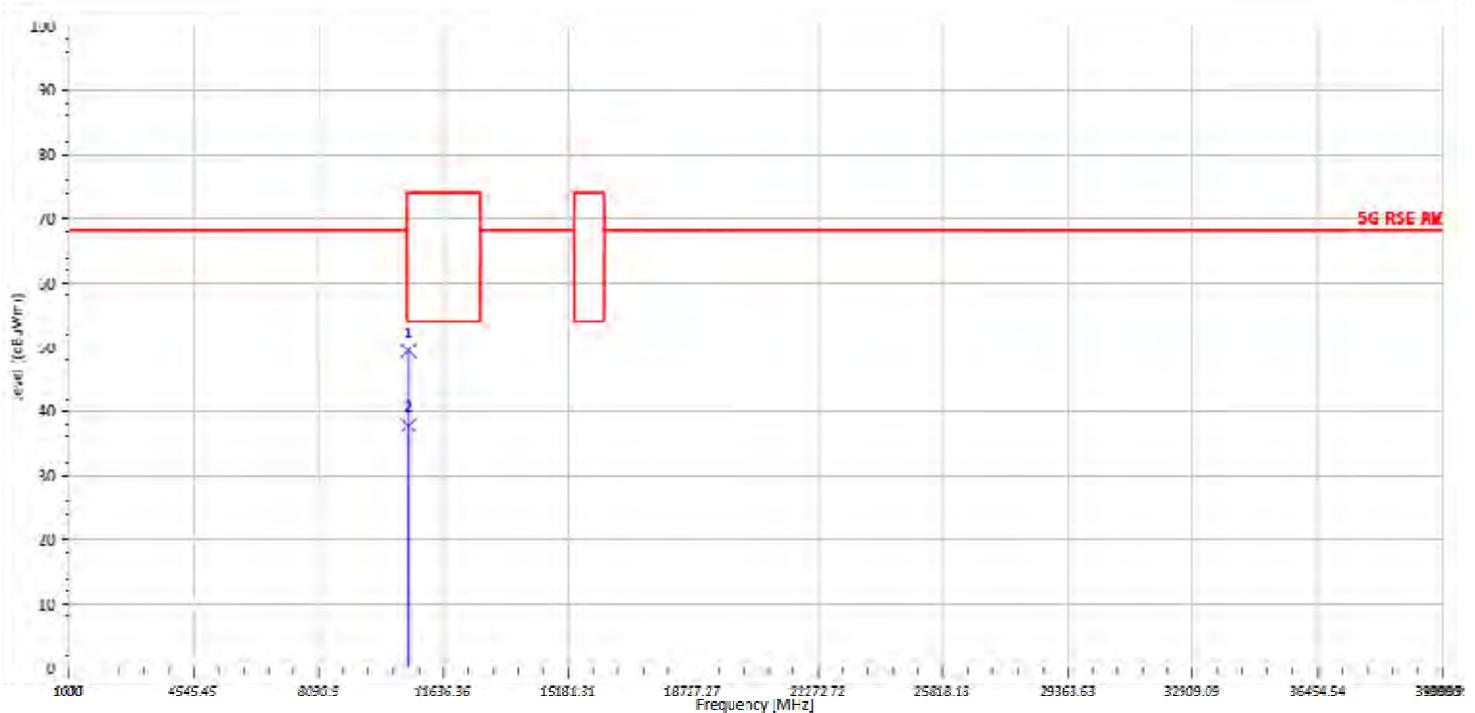
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	H	Peak	38.97	10.15	49.12	74	-24.88
10600.00	H	Average	27.77	10.15	37.92	54	-16.08

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Operation Mode : 802.11aB2      Test Date : 2017/9/27  
 Fundamental Frequency : 5320 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH HIGH      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Vertical



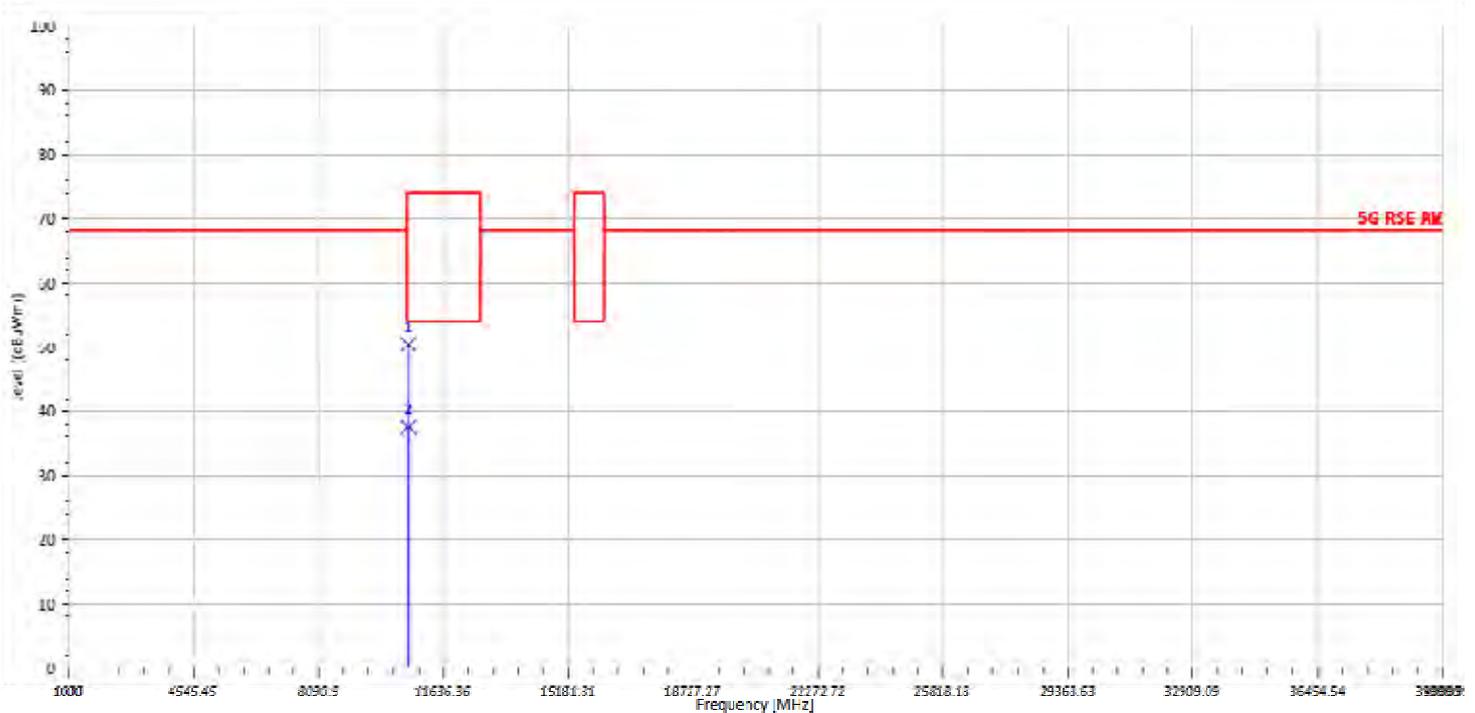
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	H	Peak	39.41	10.07	49.49	74	-24.51
10640.00	H	Average	27.76	10.07	37.83	54	-16.17

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Operation Mode : 802.11aB2      Test Date : 2017/9/27  
 Fundamental Frequency : 5320 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH HIGH      Test Engineer : Enzo  
 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	40.39	10.07	50.46	74	-23.54
10640.00	H	Average	27.51	10.07	37.58	54	-16.42

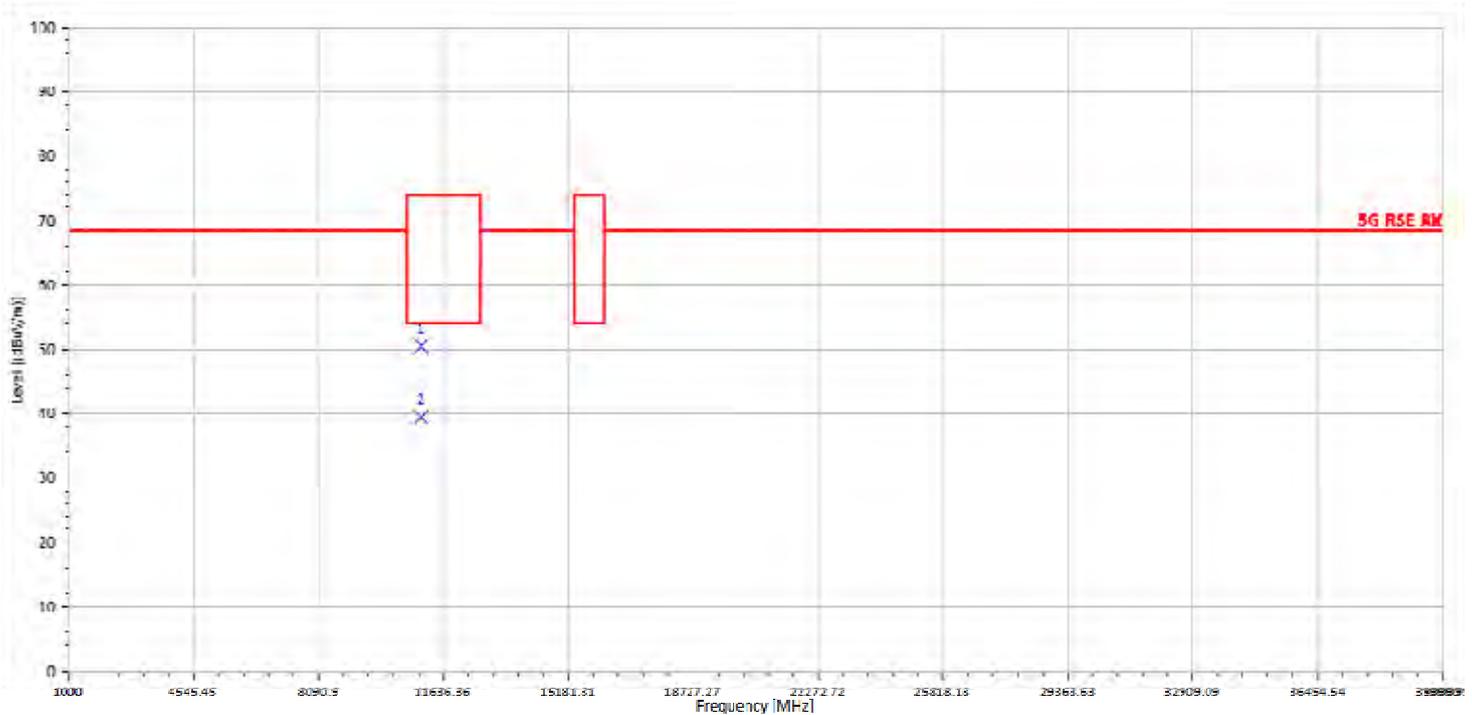
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### Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode :	802.11aB3	Test Date :	2017/9/27
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



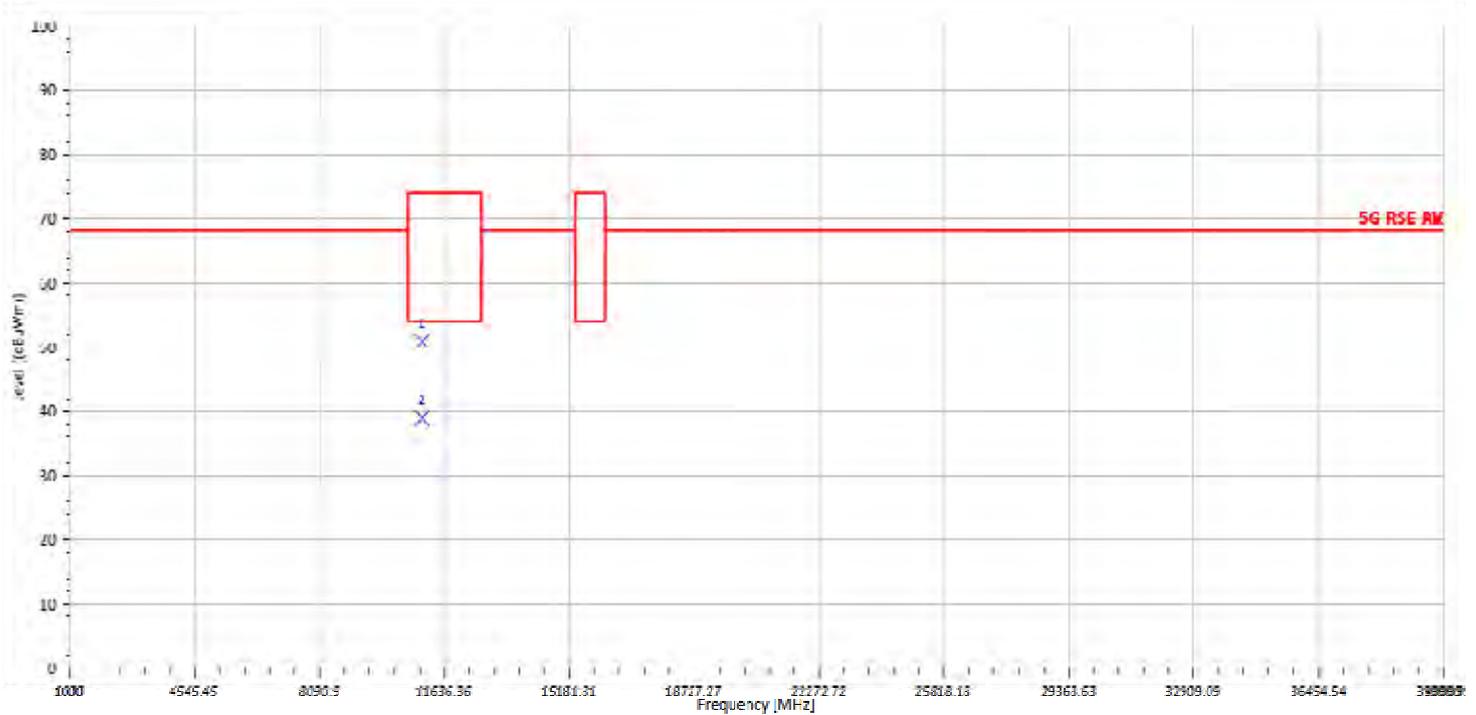
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11000.00	H	Peak	38.75	11.71	50.46	74	-23.54
11000.00	H	Average	27.75	11.71	39.46	54	-14.54

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Operation Mode :	802.11aB3	Test Date :	2017/9/27
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



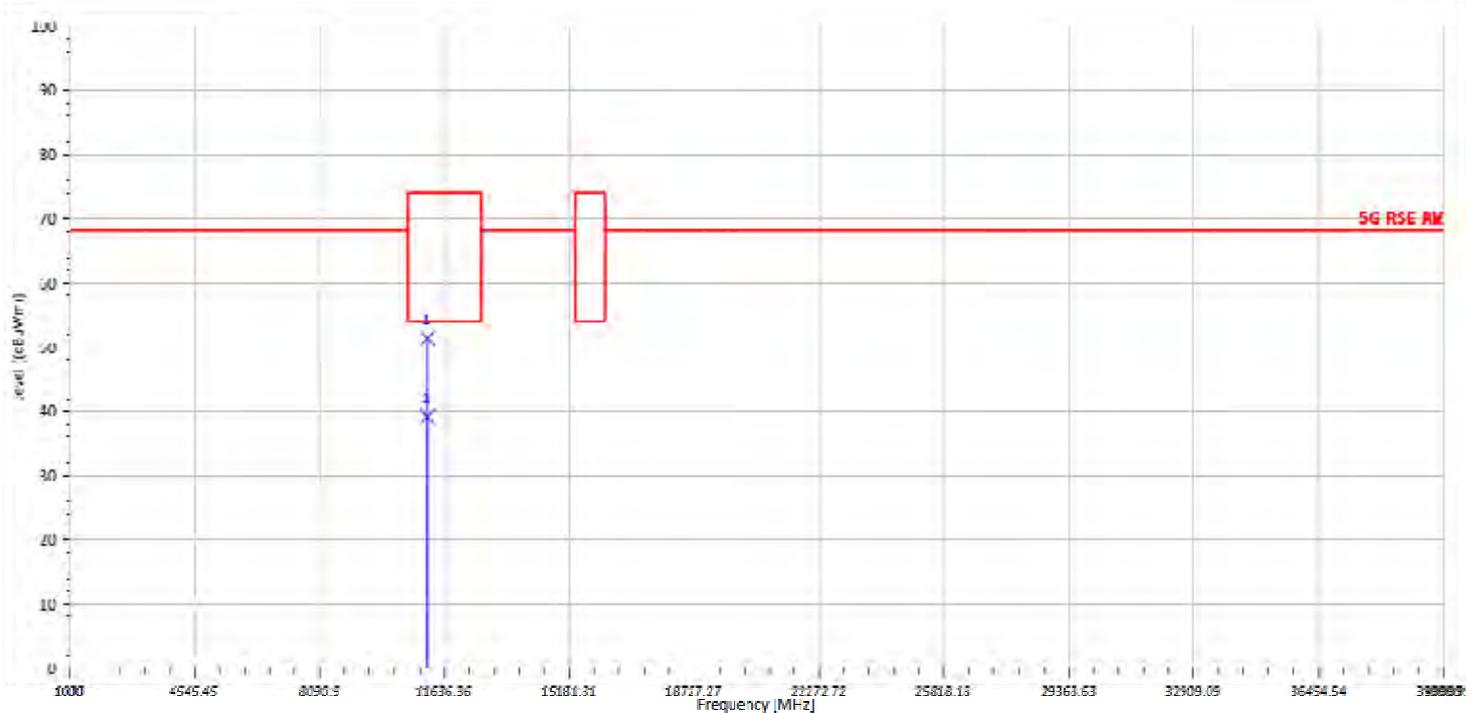
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	H	Peak	39.23	11.71	50.94	74	-23.06
11000.00	H	Average	27.27	11.71	38.98	54	-15.02

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Operation Mode : 802.11aB3      Test Date : 2017/9/27  
 Fundamental Frequency : 5580 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH MID      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Vertical



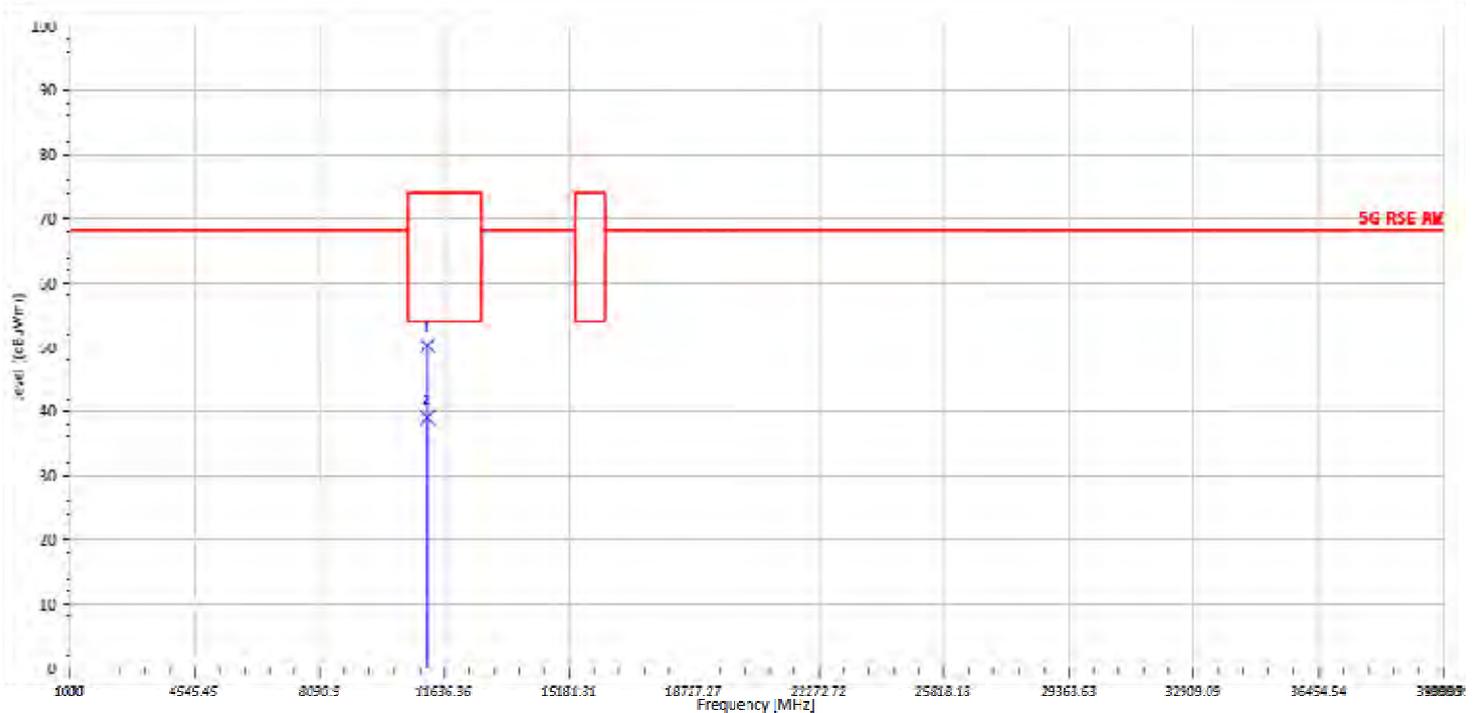
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	H	Peak	39.92	11.51	51.43	74	-22.57
11160.00	H	Average	27.67	11.51	39.18	54	-14.82

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Operation Mode : 802.11aB3      Test Date : 2017/9/27  
 Fundamental Frequency : 5580 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH MID      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



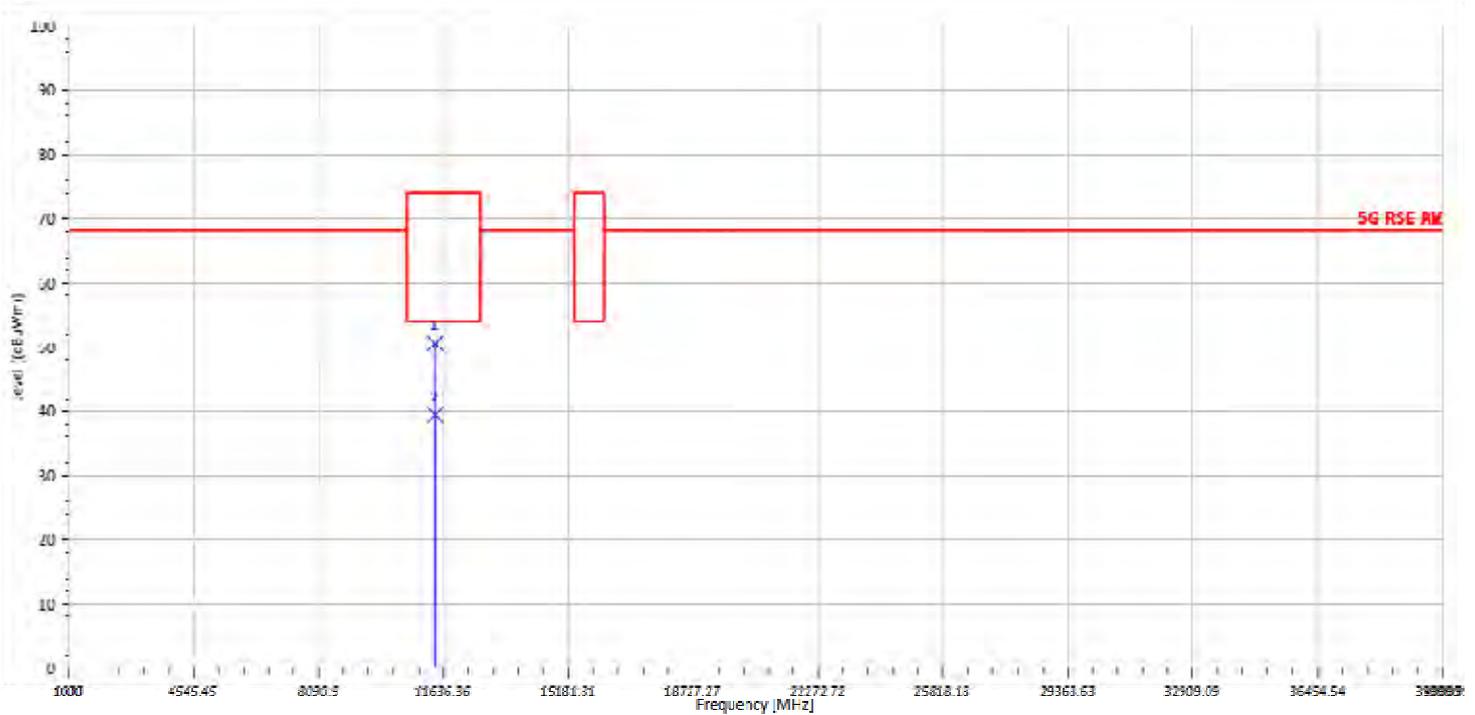
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	H	Peak	38.75	11.51	50.26	74	-23.74
11160.00	H	Average	27.55	11.51	39.06	54	-14.94

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Operation Mode : 802.11aB3      Test Date : 2017/9/27  
 Fundamental Frequency : 5700 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH HIGH      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Vertical



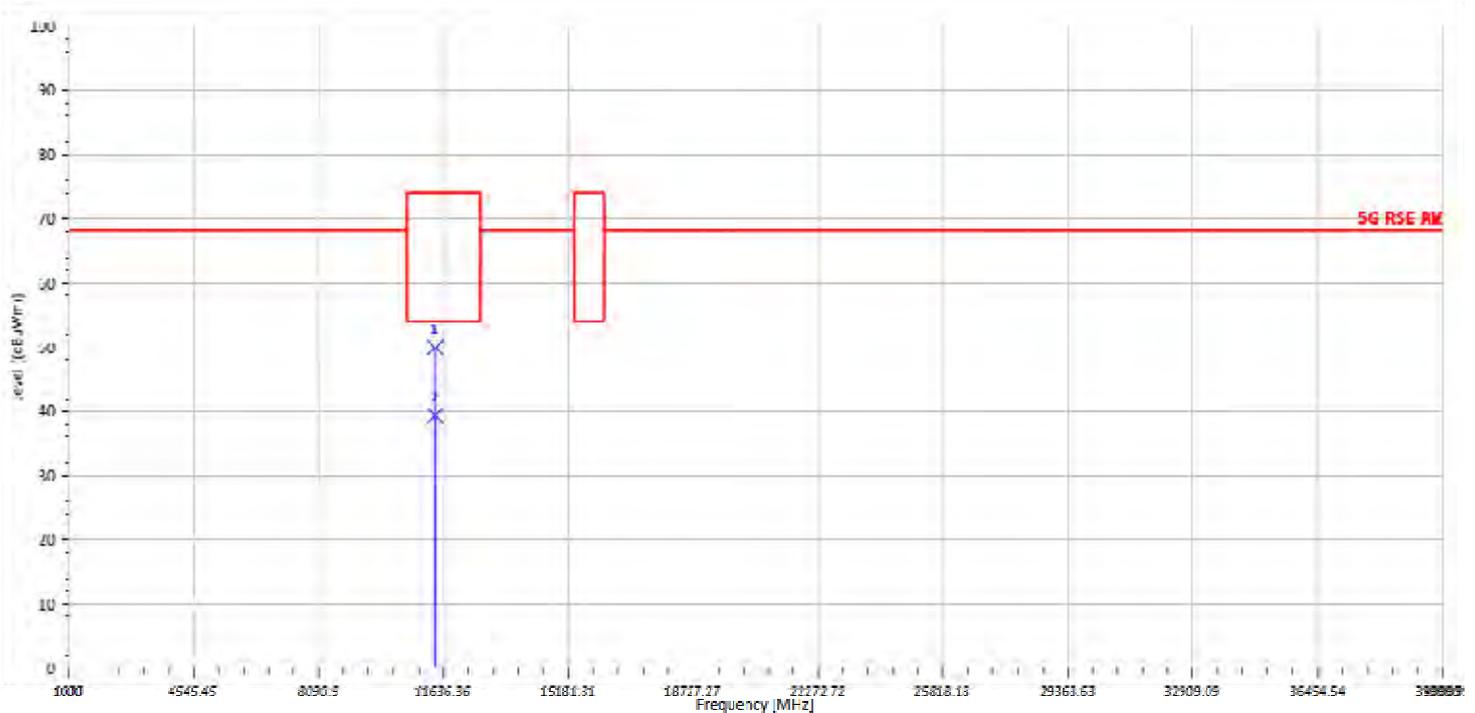
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	H	Peak	39.02	11.60	50.62	74	-23.38
11400.00	H	Average	27.88	11.60	39.48	54	-14.52

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Operation Mode : 802.11aB3      Test Date : 2017/9/27  
 Fundamental Frequency : 5700 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH HIGH      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBEμV	Factor dB	Actual FS dBEμV/m	Limit @3m dBEμV/m	Margin dB
11400.00	H	Peak	38.36	11.60	49.96	74	-24.04
11400.00	H	Average	27.78	11.60	39.38	54	-14.62

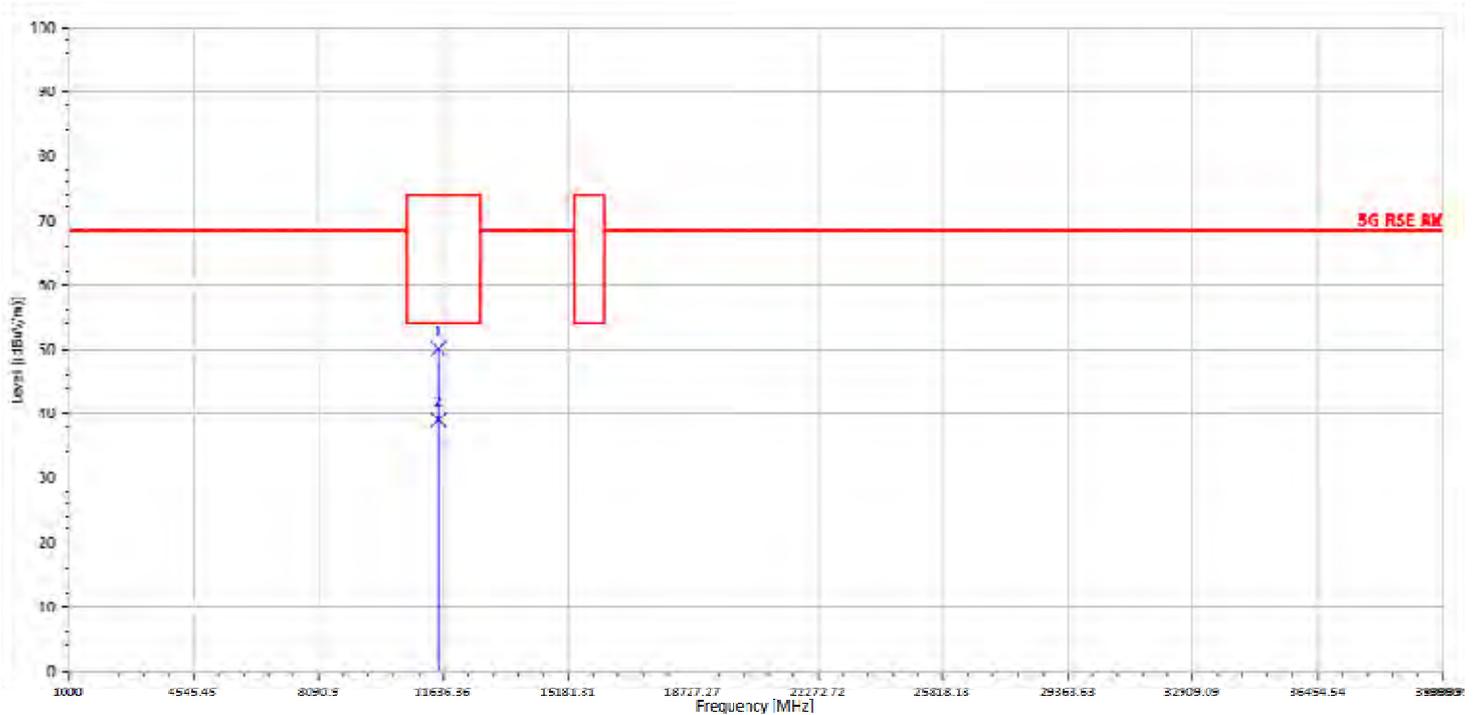
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### Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode :	802.11aB4	Test Date :	2017/9/27
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



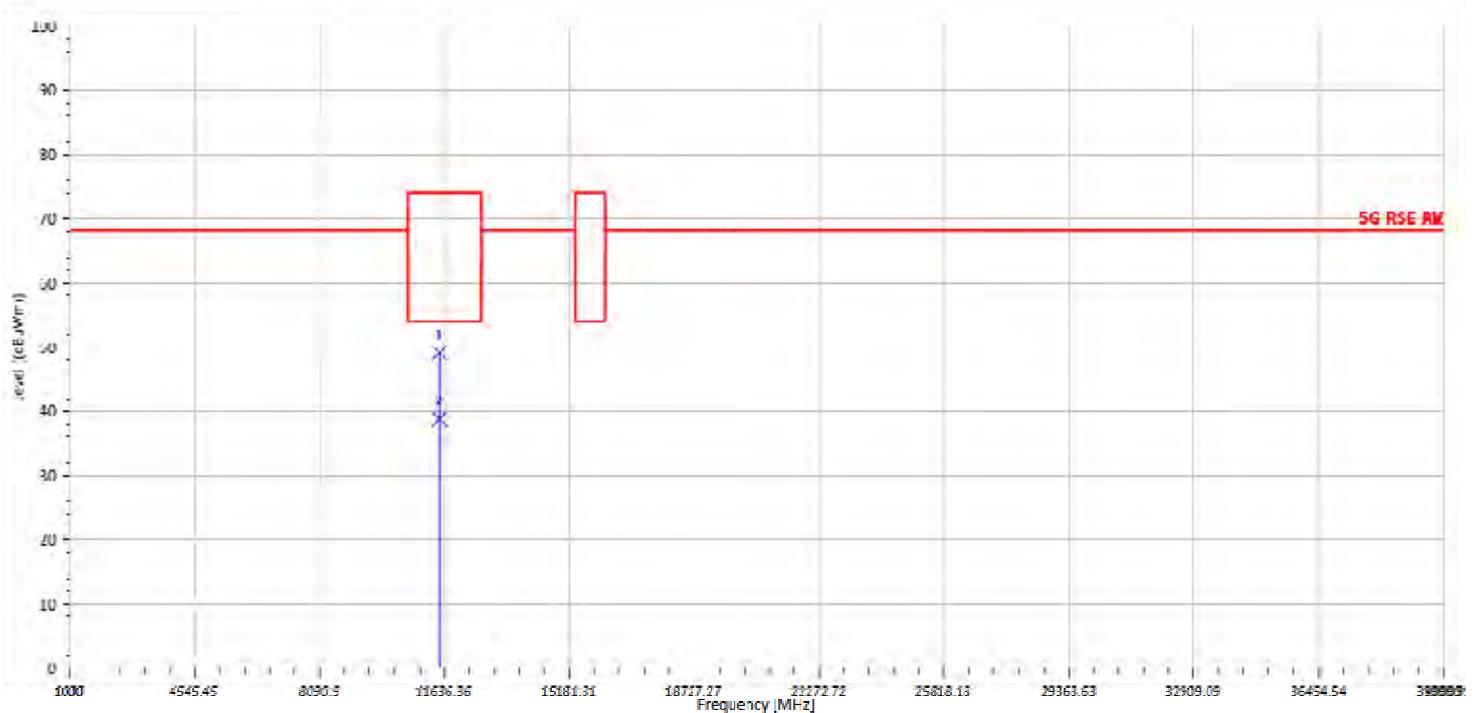
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11490.00	H	Peak	38.91	11.18	50.09	74	-23.91
11490.00	H	Average	27.84	11.18	39.02	54	-14.98

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Operation Mode : 802.11aB4      Test Date : 2017/9/27  
 Fundamental Frequency : 5745 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH LOW      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



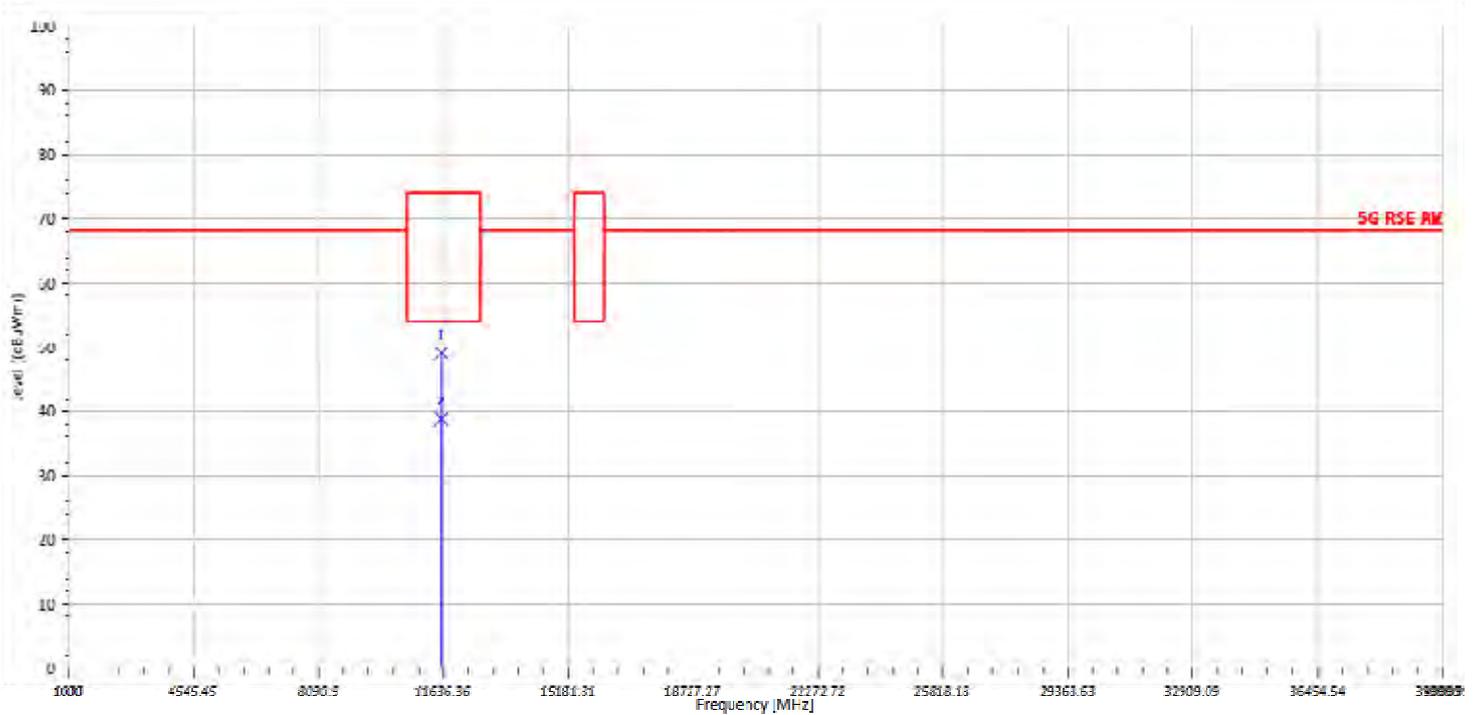
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	H	Peak	37.97	11.18	49.14	74	-24.86
11490.00	H	Average	27.69	11.18	38.87	54	-15.13

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Operation Mode : 802.11aB4      Test Date : 2017/9/27  
 Fundamental Frequency : 5785 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH MID      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Vertical



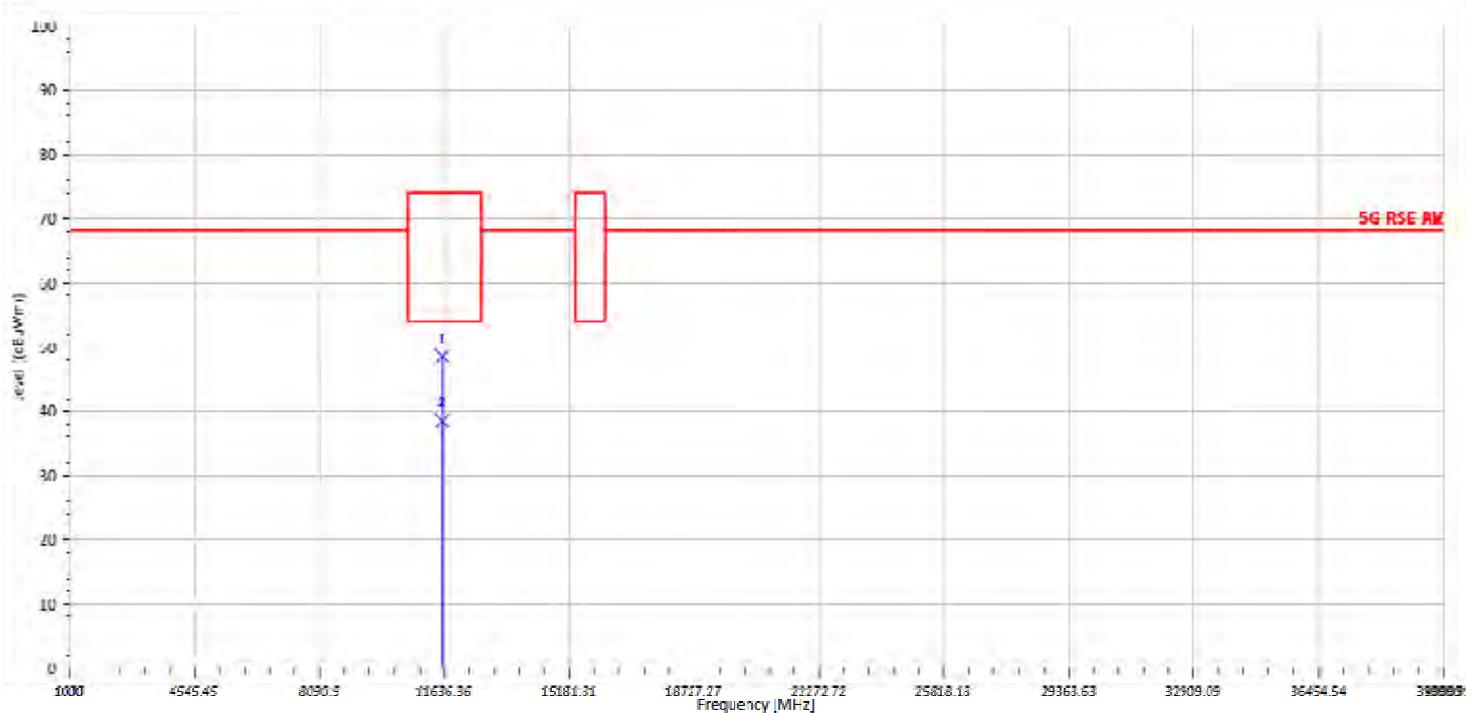
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	H	Peak	38.02	11.06	49.09	74	-24.91
11570.00	H	Average	27.82	11.06	38.89	54	-15.11

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Operation Mode : 802.11aB4 Test Date : 2017/9/27  
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH MID Test Engineer : Enzo  
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



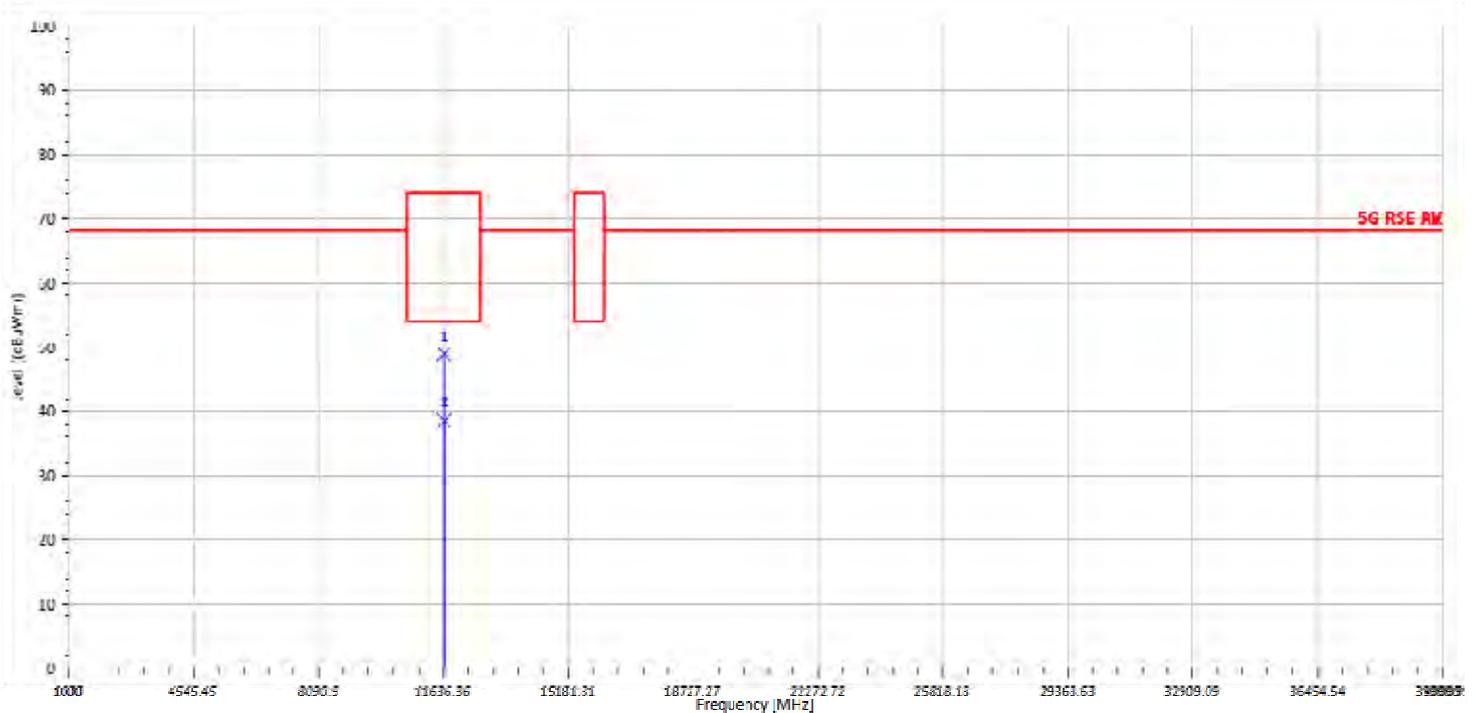
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	H	Peak	37.51	11.06	48.58	74	-25.42
11570.00	H	Average	27.51	11.06	38.58	54	-15.42

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Operation Mode : 802.11aB4      Test Date : 2017/9/27  
 Fundamental Frequency : 5825 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH HIGH      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Vertical



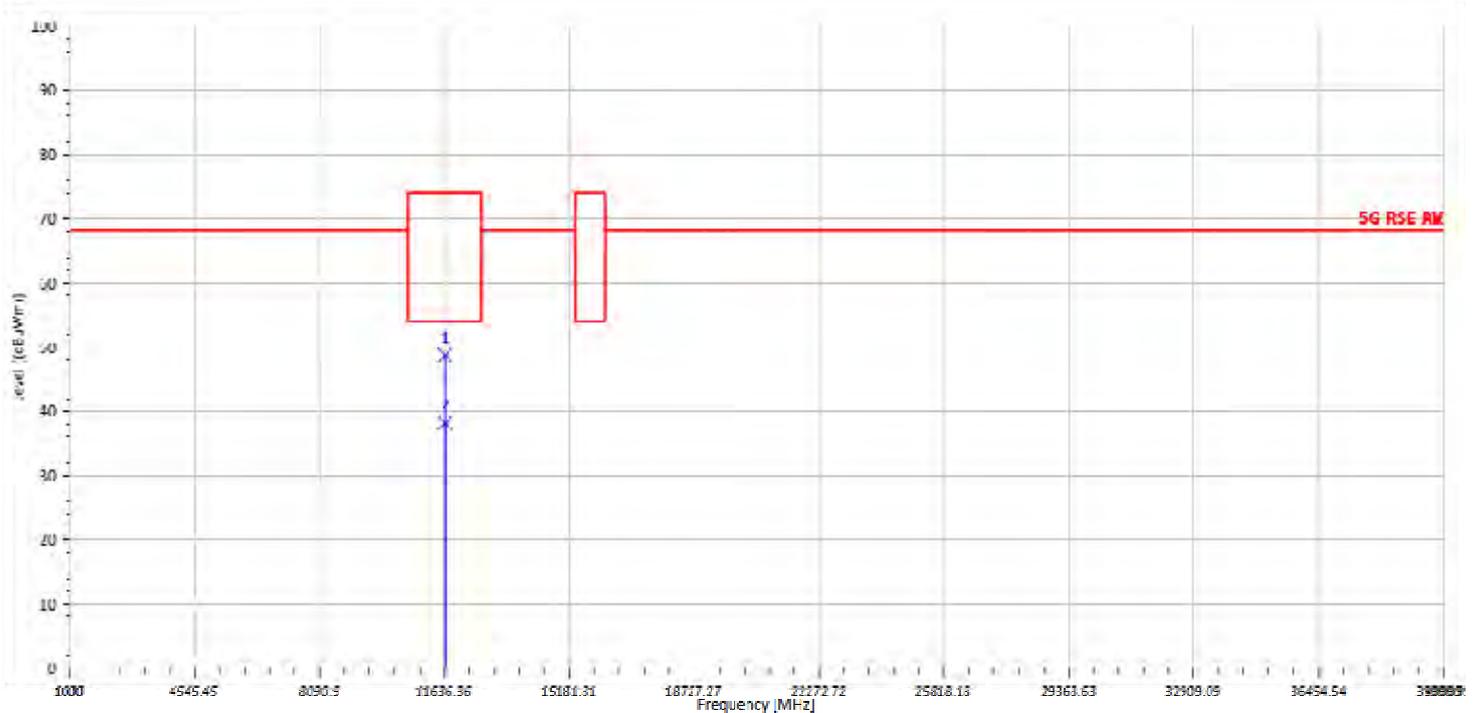
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	H	Peak	38.26	10.69	48.95	74	-25.05
11650.00	H	Average	27.89	10.69	38.58	54	-15.42

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Operation Mode : 802.11aB4      Test Date : 2017/9/27  
 Fundamental Frequency : 5825 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH HIGH      Test Engineer : Enzo  
 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	38.05	10.69	48.74	74	-25.26
11650.00	H	Average	27.55	10.69	38.24	54	-15.76

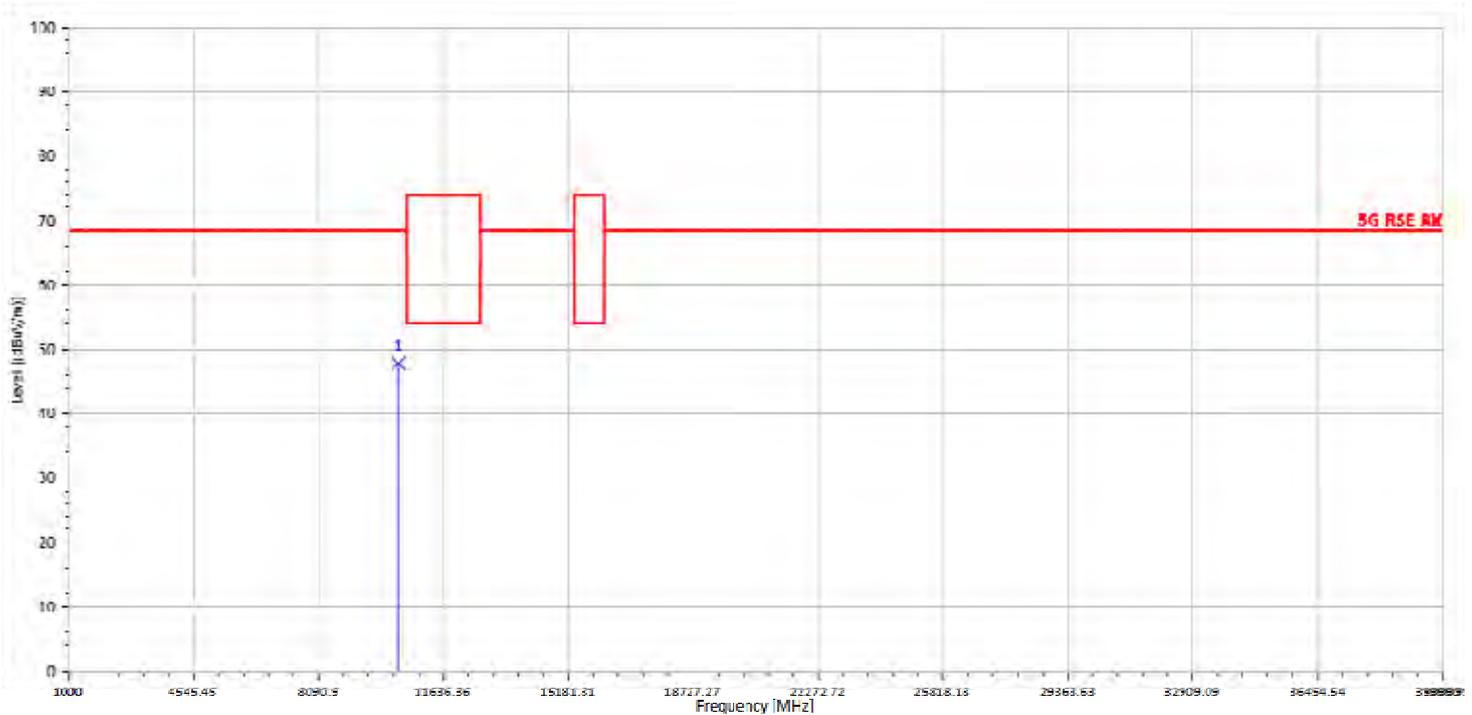
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode :	802.11n20B1	Test Date :	2017/9/27
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



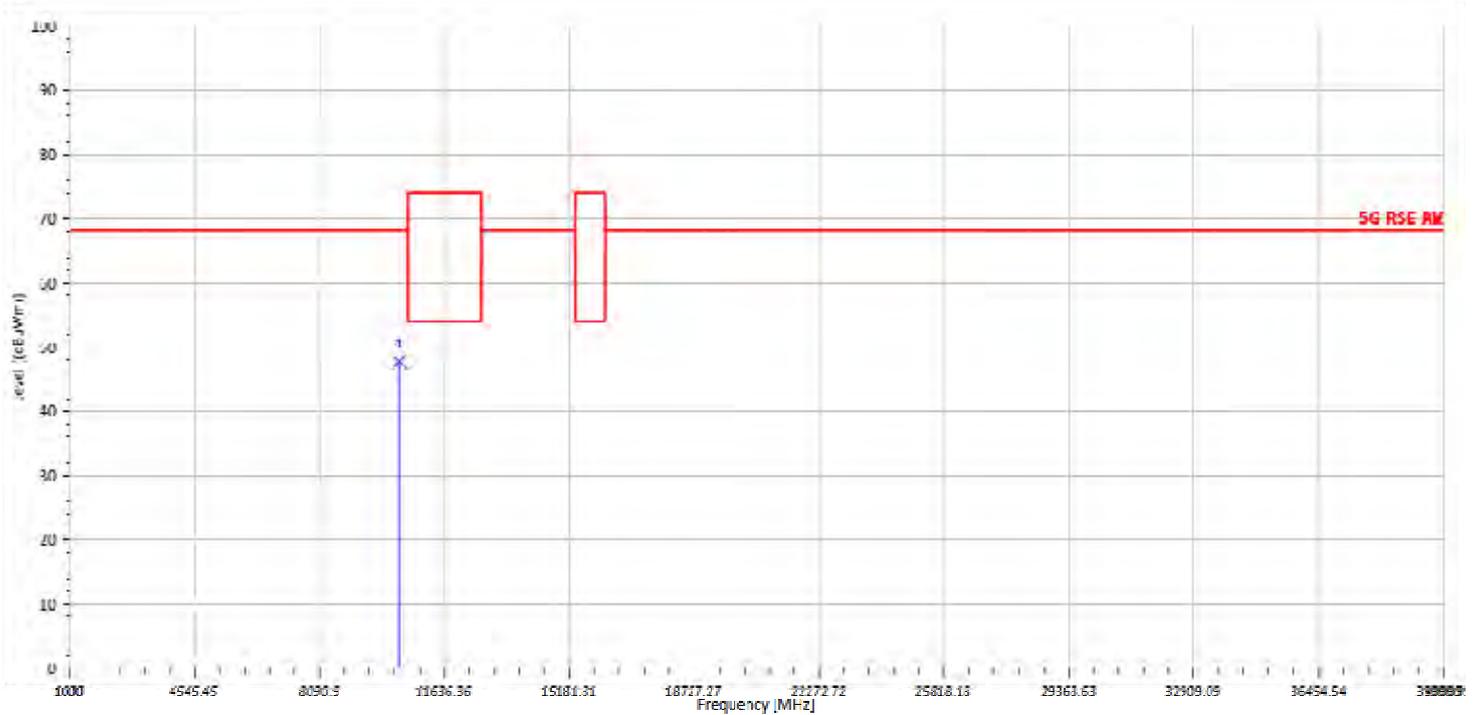
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10360.00	H	Peak	38.53	9.27	47.80	68.3	-20.50

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Operation Mode :	802.11n20B1	Test Date :	2017/9/27
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



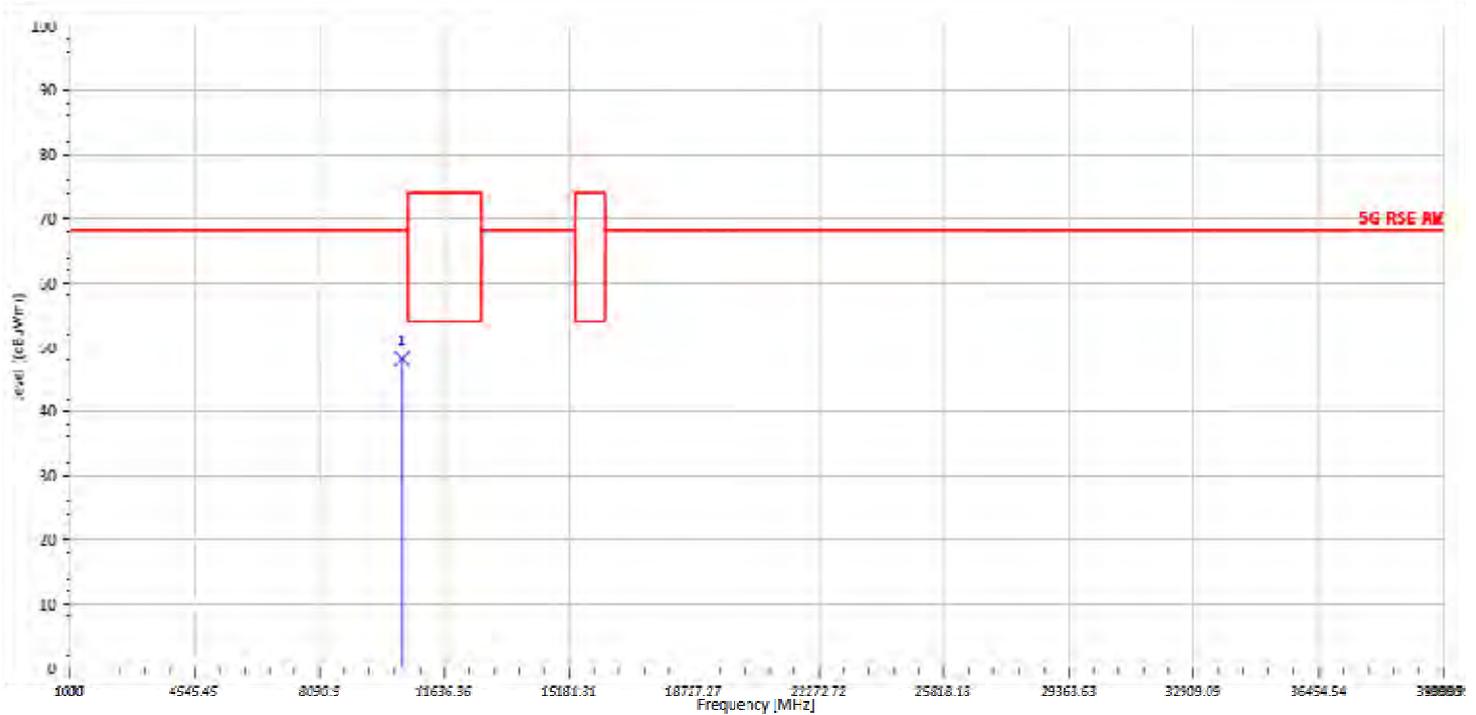
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	H	Peak	38.51	9.27	47.78	68.3	-20.52

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Operation Mode :	802.11n20B1	Test Date :	2017/9/27
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH MID	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



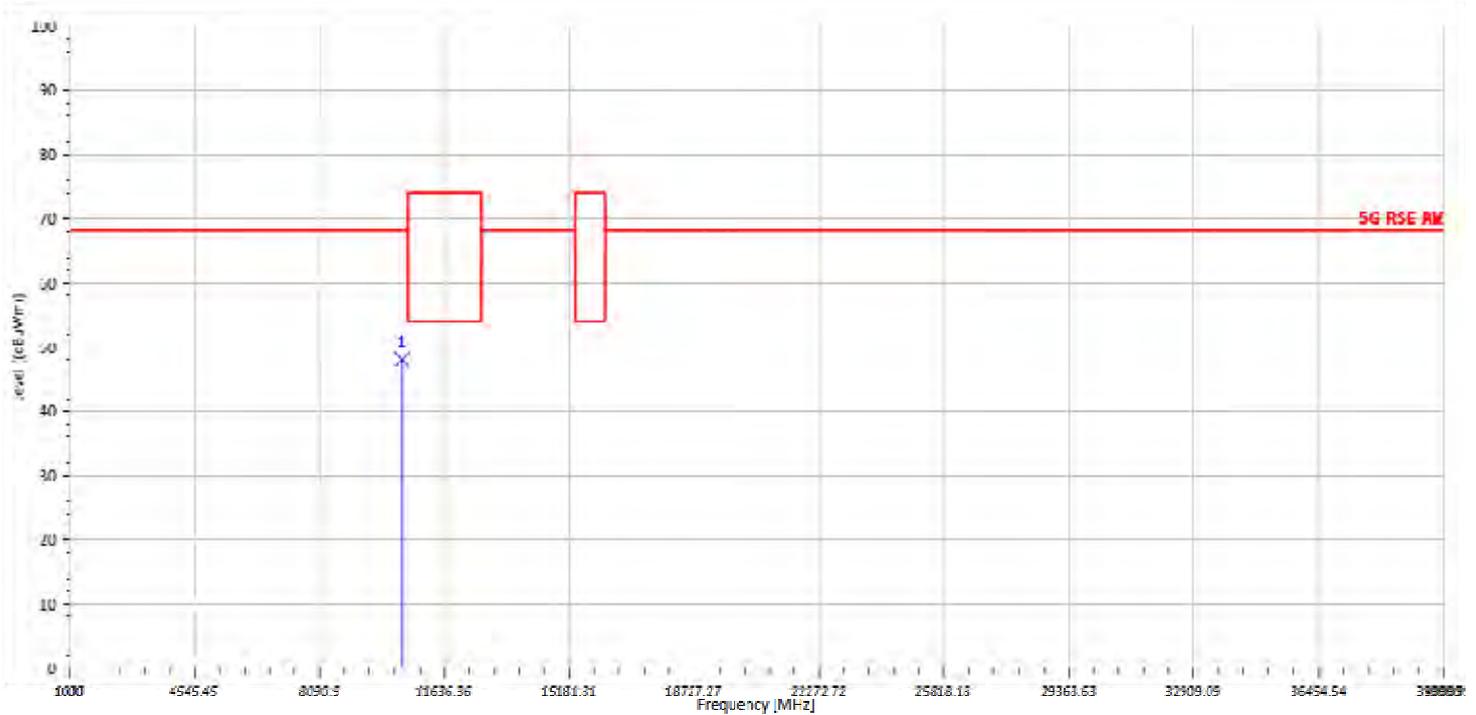
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	H	Peak	38.65	9.57	48.21	68.3	-20.09

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Operation Mode :	802.11n20B1	Test Date :	2017/9/27
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH MID	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



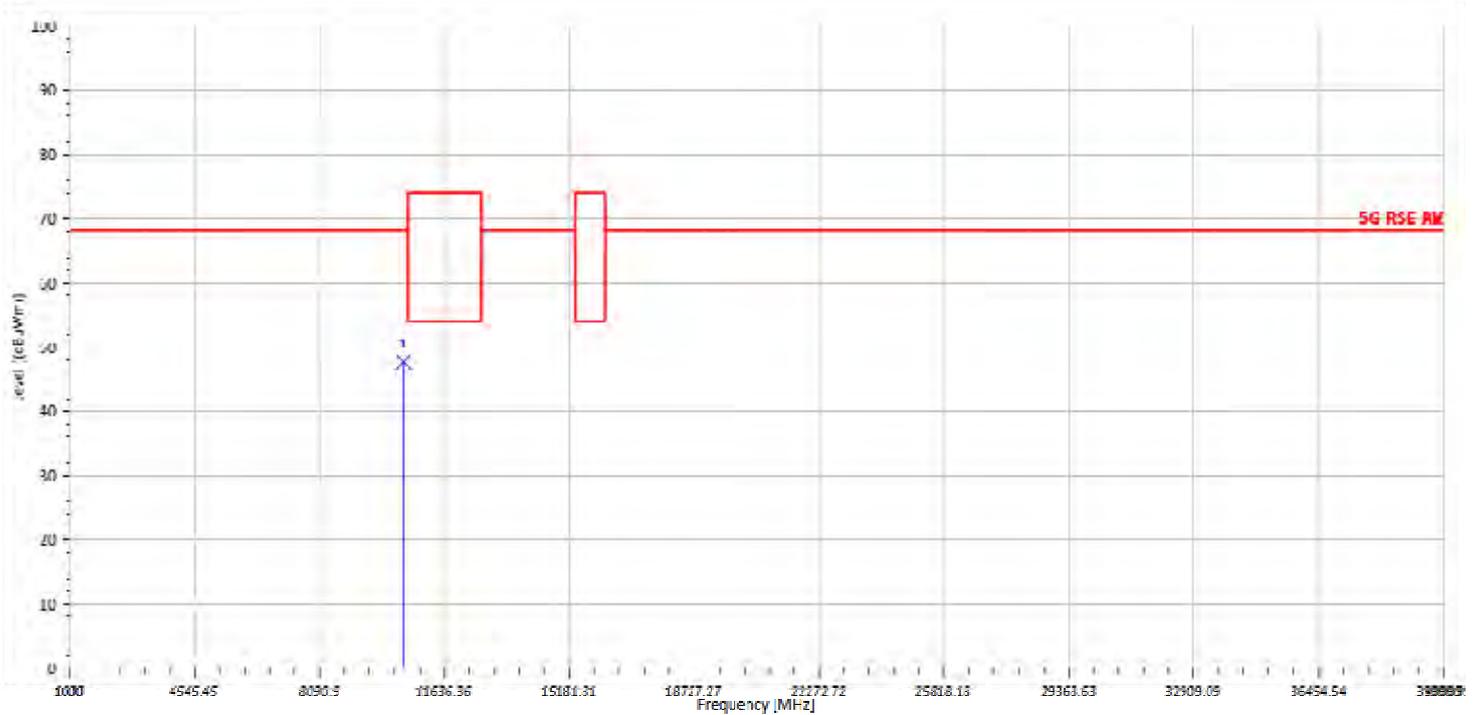
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	H	Peak	38.50	9.57	48.07	68.3	-20.23

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Operation Mode :	802.11n20B1	Test Date :	2017/9/27
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



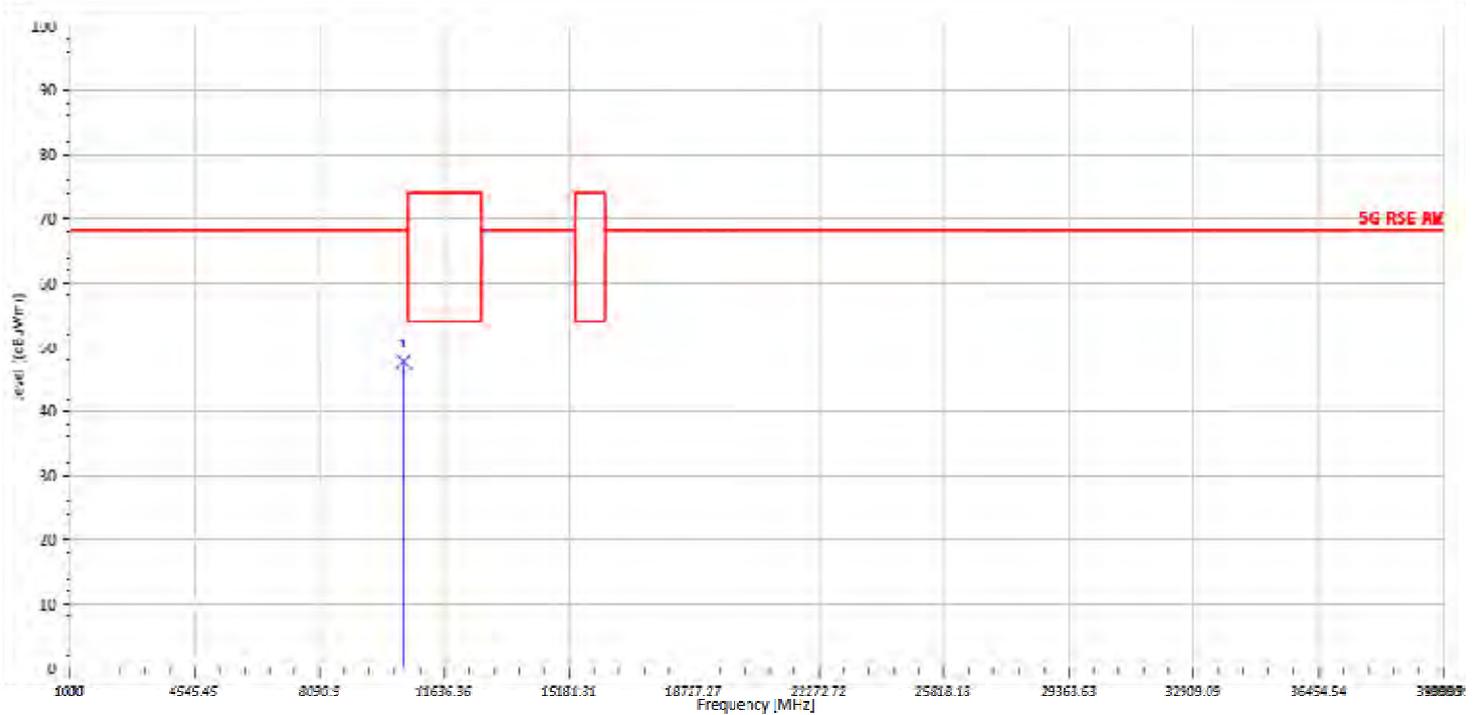
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	H	Peak	38.10	9.64	47.74	68.3	-20.56

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Operation Mode :	802.11n20B1	Test Date :	2017/9/27
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Enzo
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	38.16	9.64	47.80	68.3	-20.50

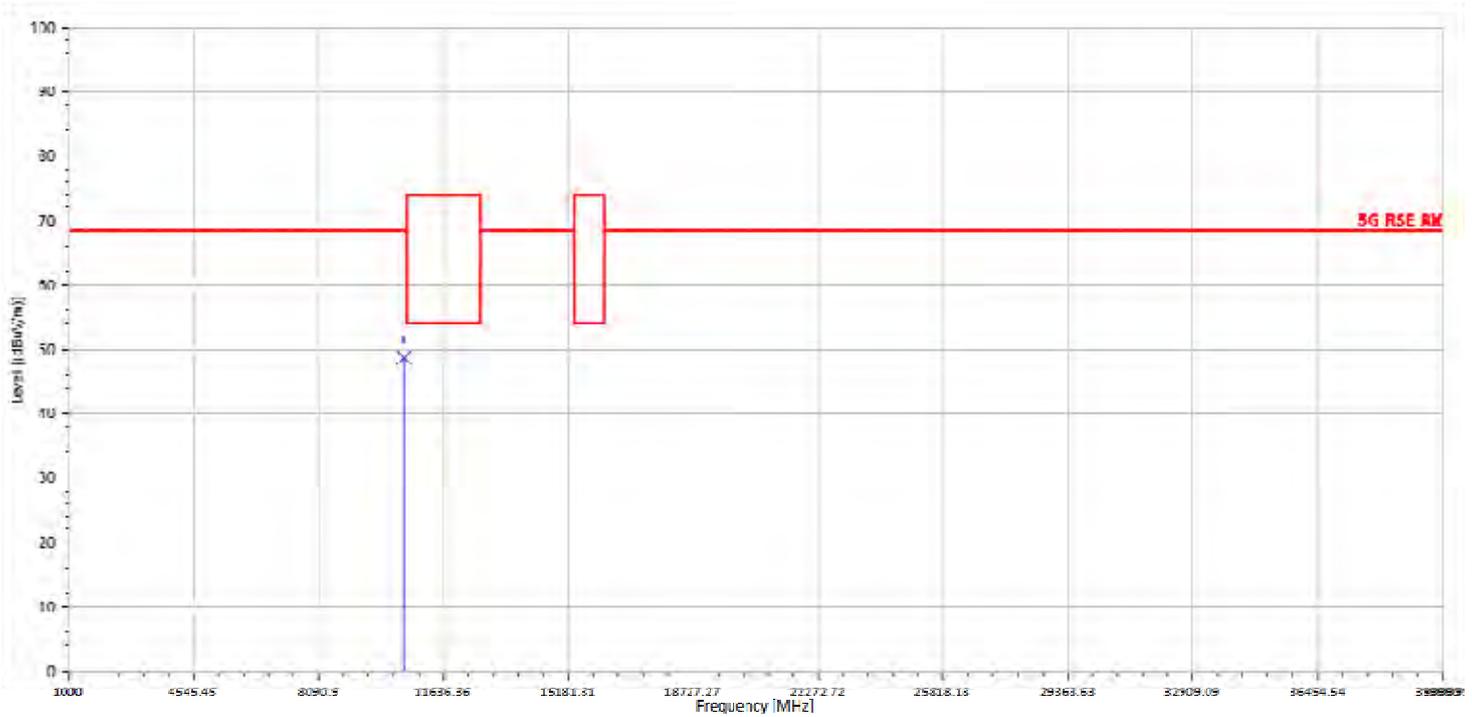
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode :	802.11n20B2	Test Date :	2017/9/27
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



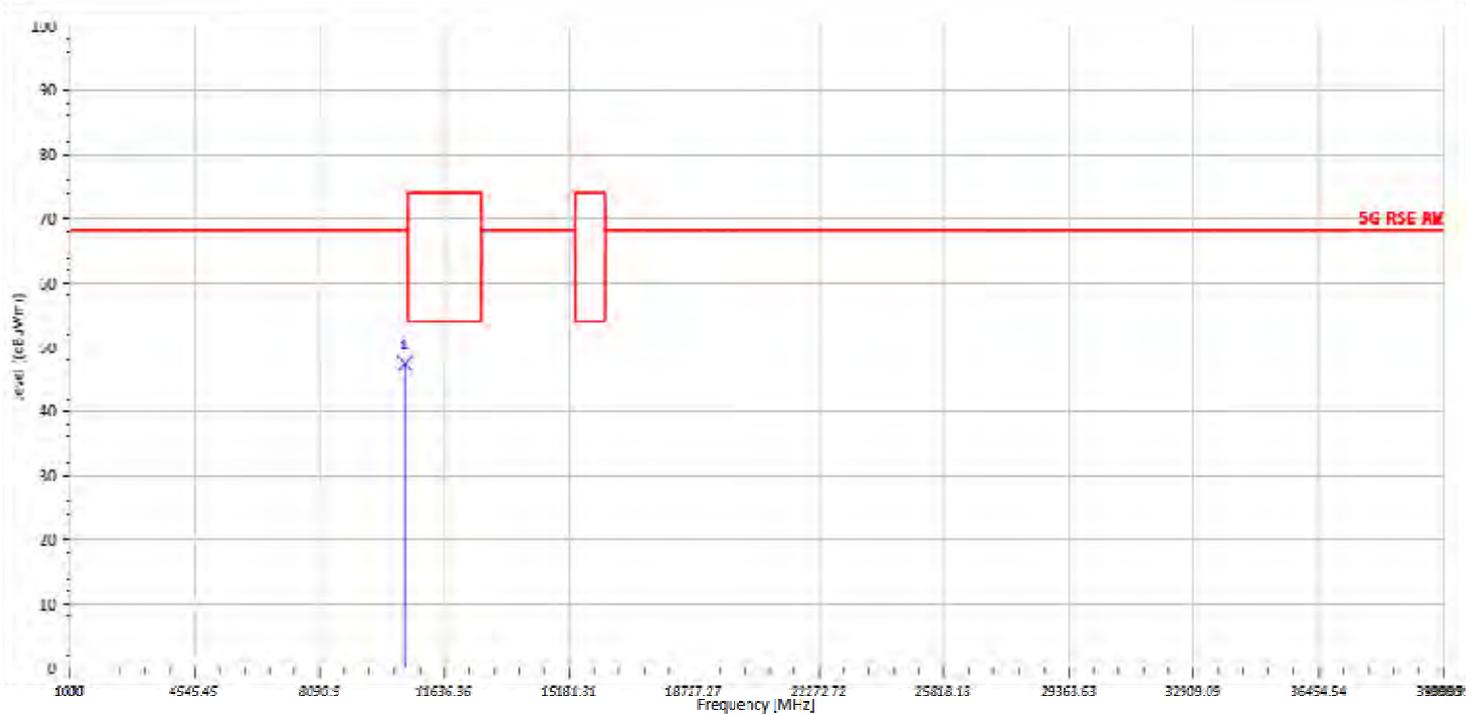
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10520.00	H	Peak	38.90	9.77	48.67	68.3	-19.63

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Operation Mode :	802.11n20B2	Test Date :	2017/9/27
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



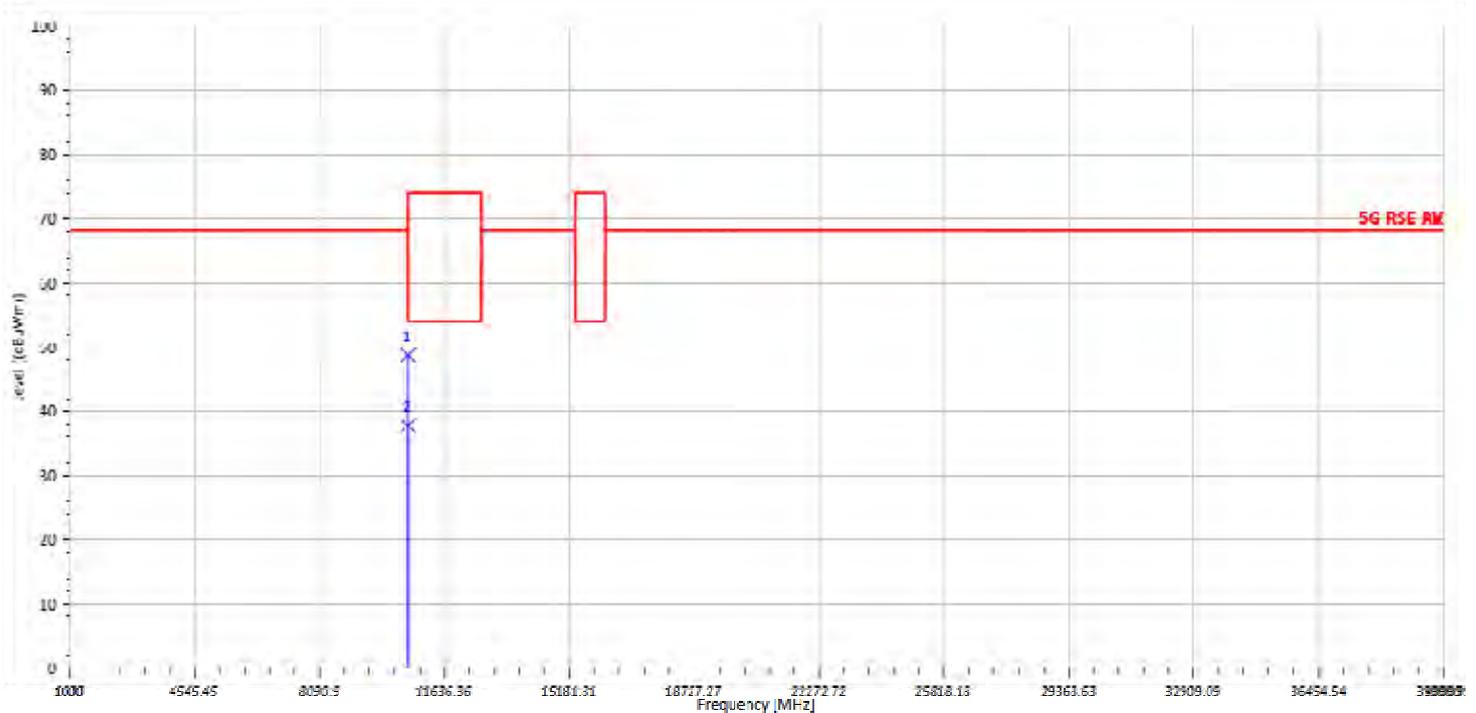
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	H	Peak	37.72	9.77	47.49	68.3	-20.81

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Operation Mode :	802.11n20B2	Test Date :	2017/9/27
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH MID	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



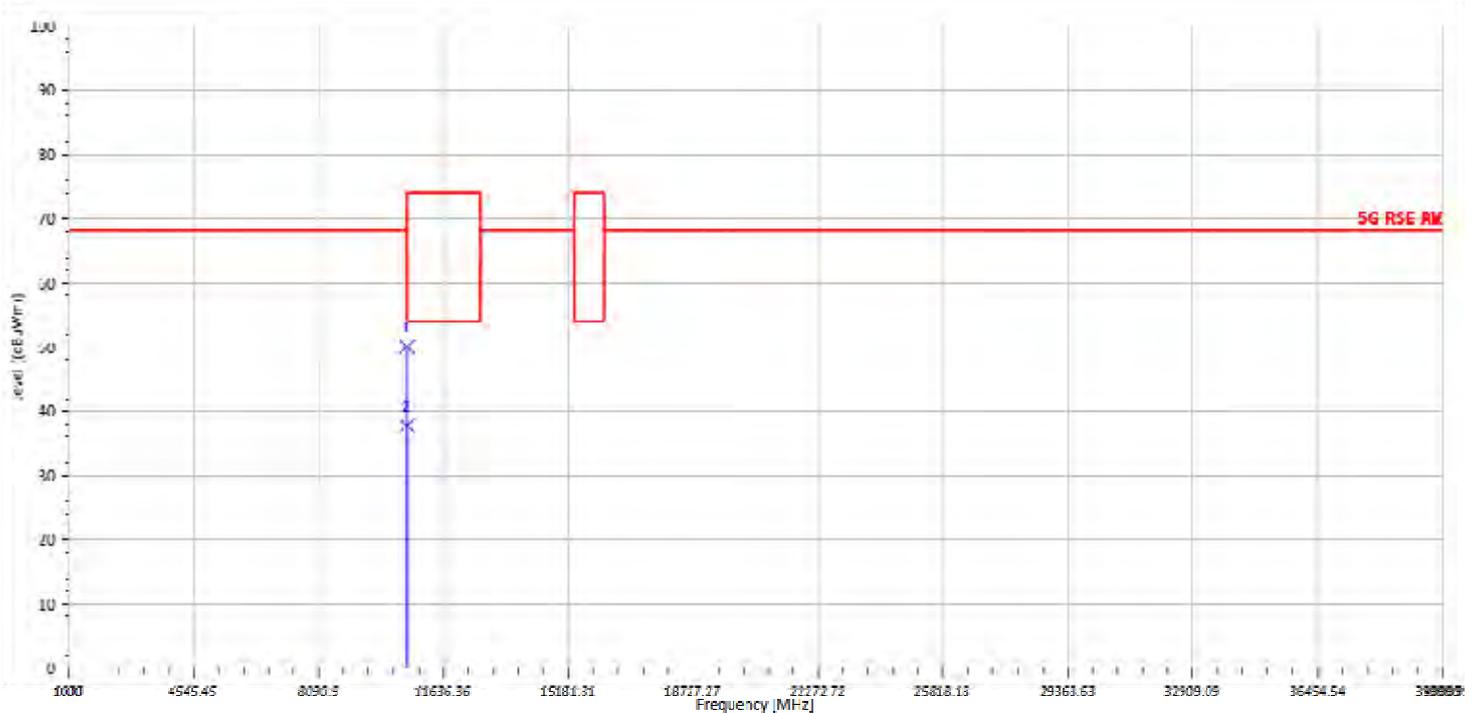
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	H	Peak	38.64	10.15	48.78	74	-25.22
10600.00	H	Average	27.66	10.15	37.81	54	-16.19

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Operation Mode : 802.11n20B2      Test Date : 2017/9/27  
 Fundamental Frequency : 5300 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH MID      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



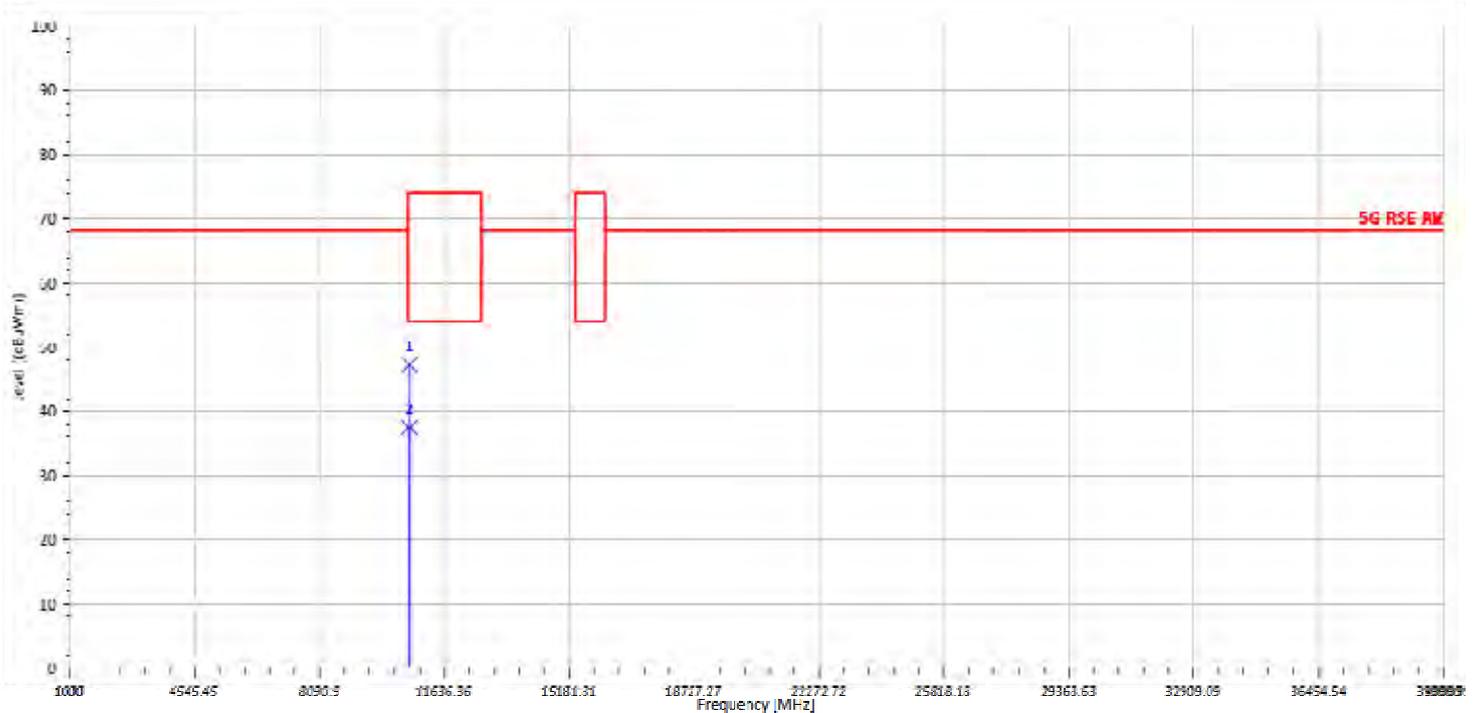
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	H	Peak	39.97	10.15	50.11	74	-23.89
10600.00	H	Average	27.66	10.15	37.81	54	-16.19

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Operation Mode :	802.11n20B2	Test Date :	2017/9/27
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



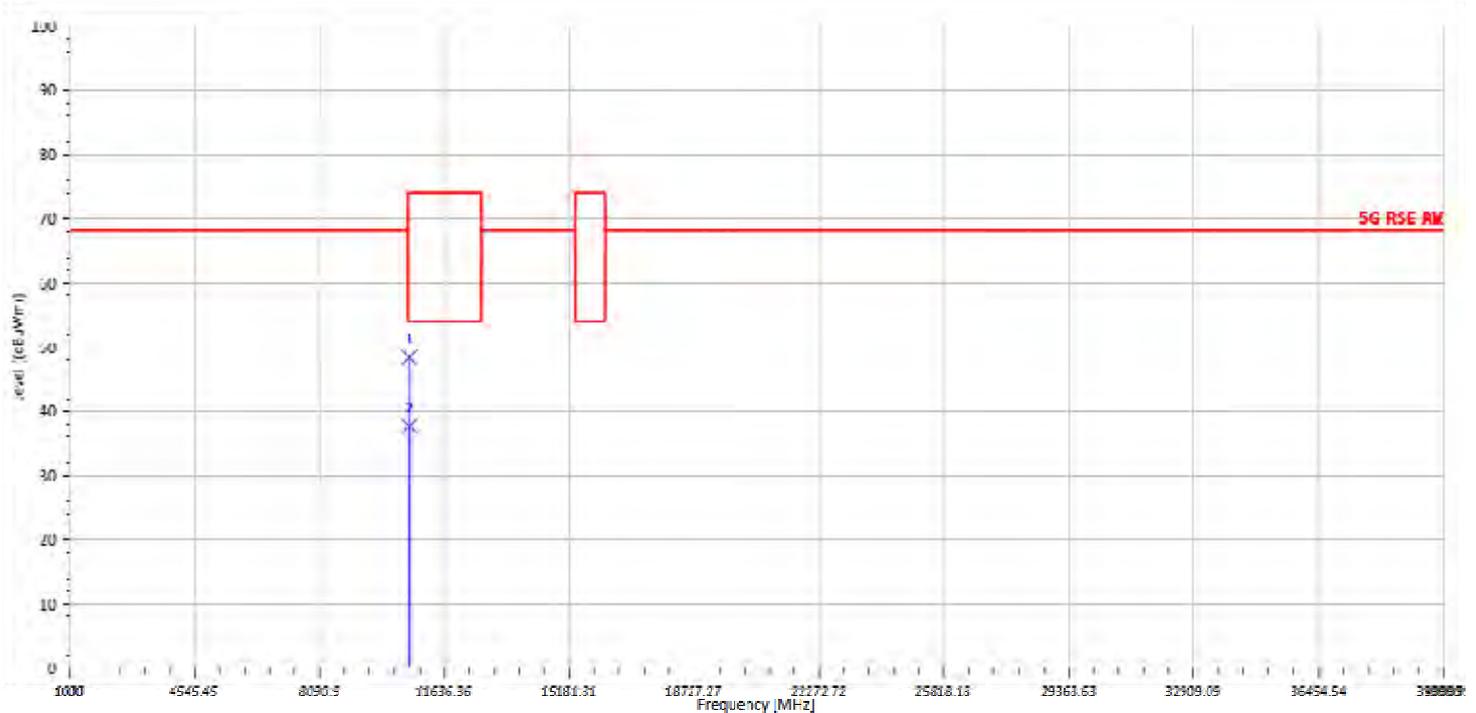
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	H	Peak	37.23	10.07	47.30	74	-26.70
10640.00	H	Average	27.44	10.07	37.51	54	-16.49

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Operation Mode :	802.11n20B2	Test Date :	2017/9/27
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Enzo
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	38.36	10.07	48.43	74	-25.57
10640.00	H	Average	27.66	10.07	37.73	54	-16.27

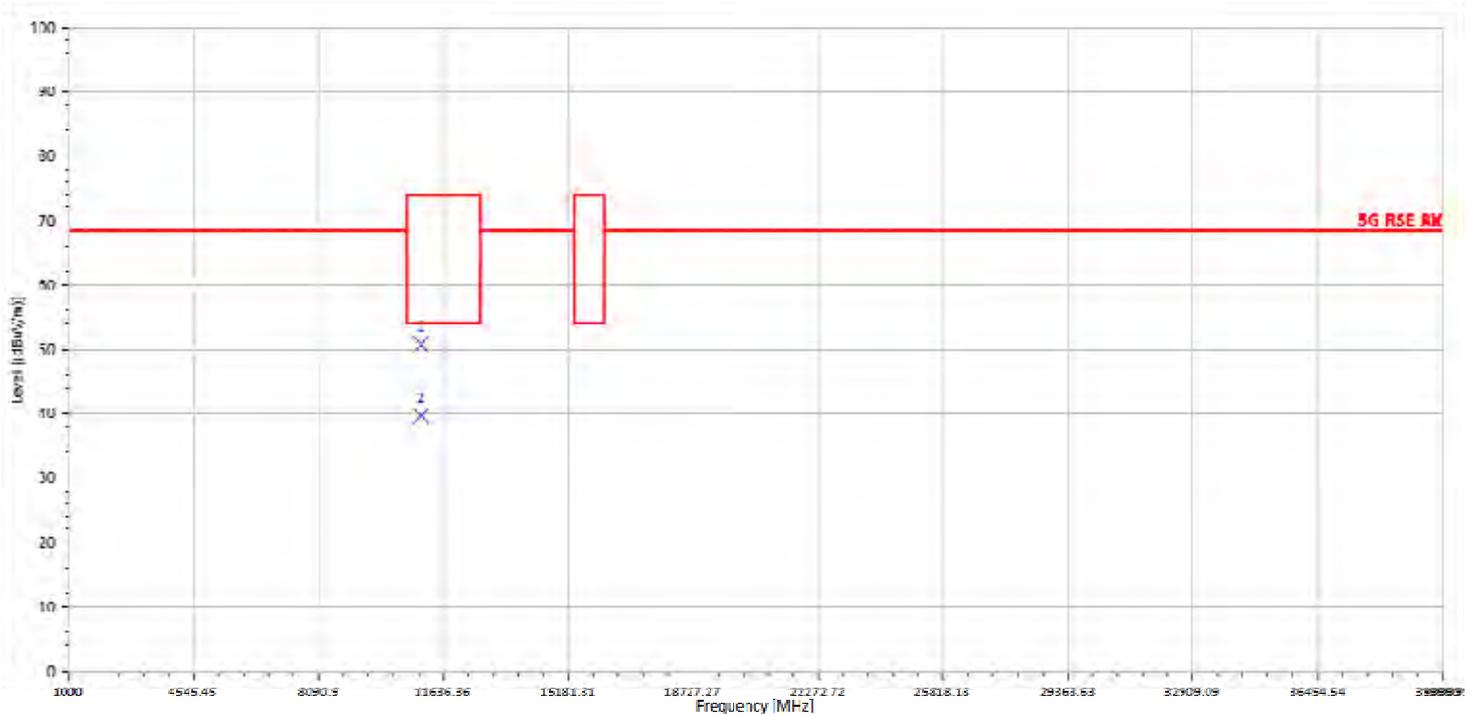
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode :	802.11n20B3	Test Date :	2017/9/27
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



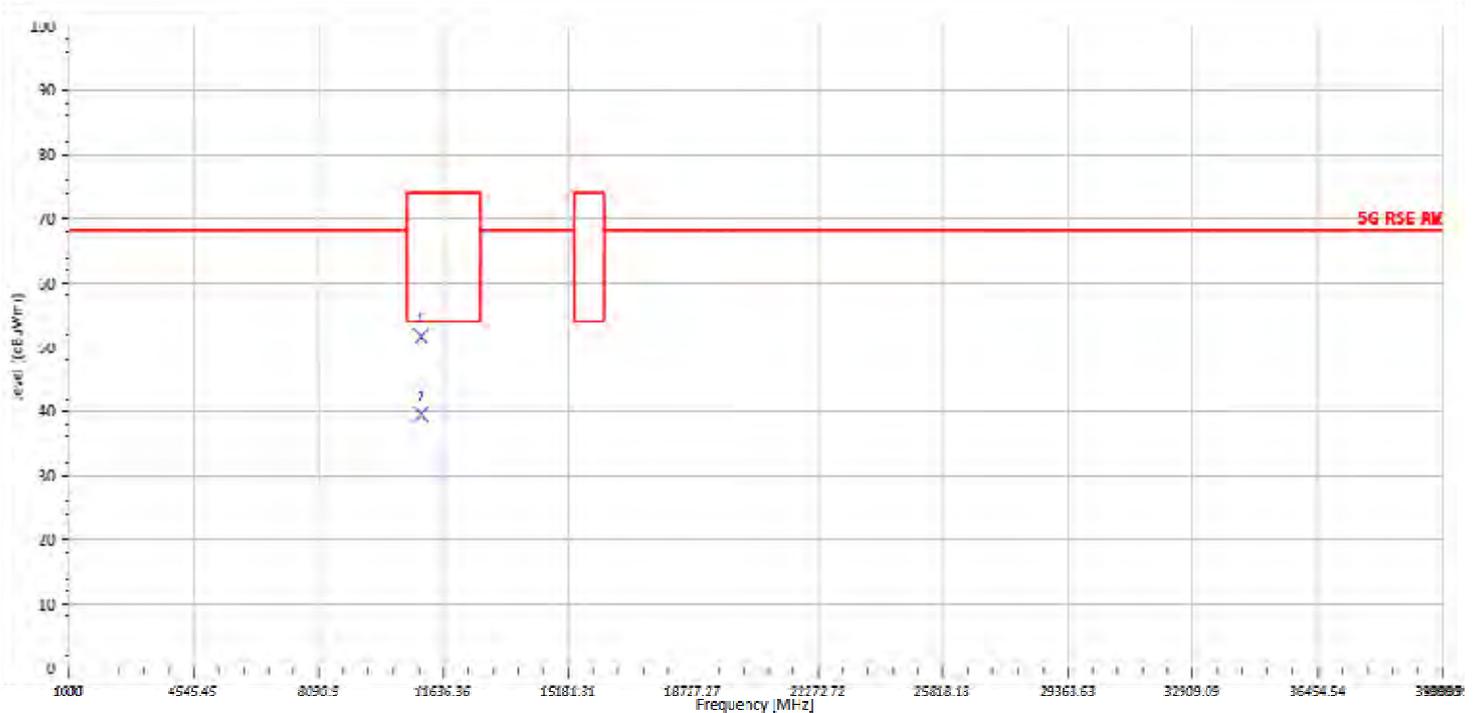
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	H	Peak	39.01	11.71	50.72	74	-23.28
11000.00	H	Average	27.95	11.71	39.66	54	-14.34

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Operation Mode : 802.11n20B3      Test Date : 2017/9/27  
 Fundamental Frequency : 5500 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH LOW      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



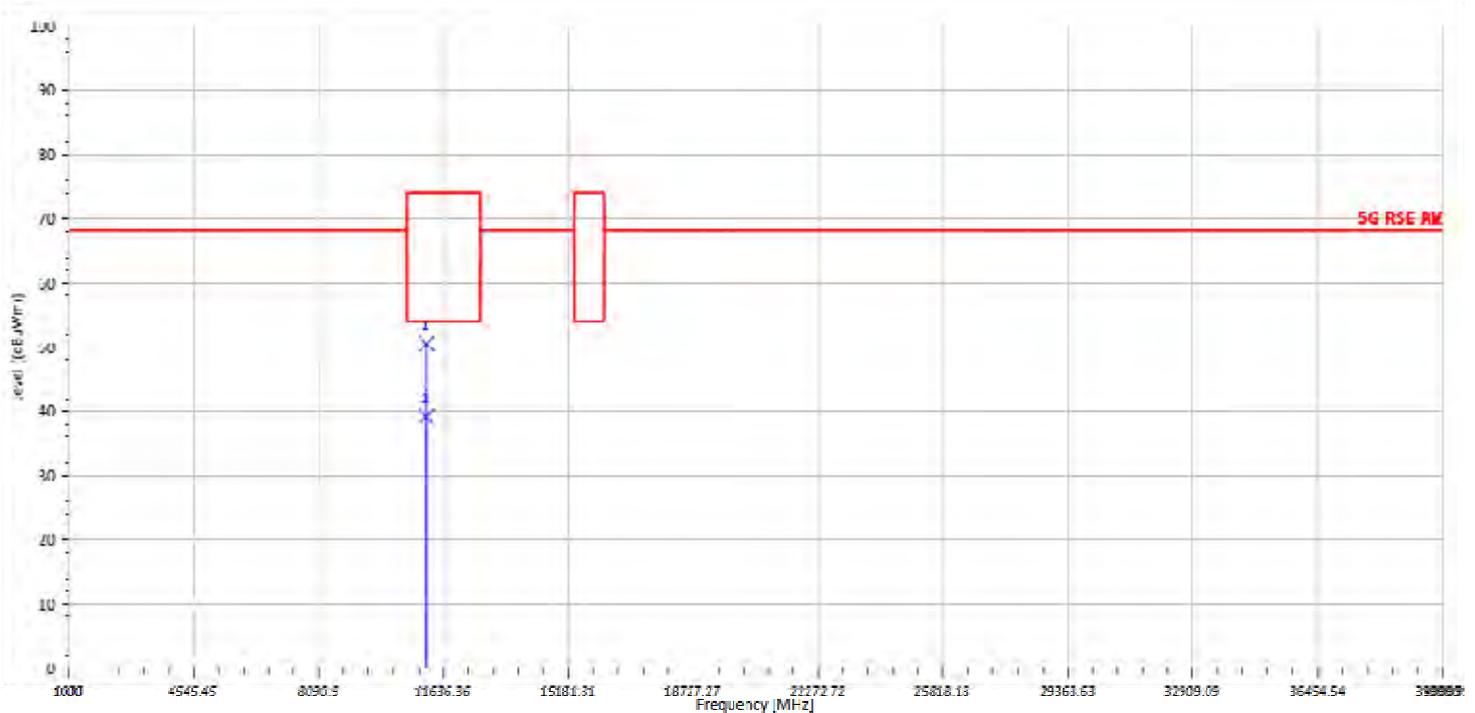
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	H	Peak	39.97	11.71	51.68	74	-22.32
11000.00	H	Average	27.86	11.71	39.57	54	-14.43

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Operation Mode :	802.11n20B3	Test Date :	2017/9/27
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH MID	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



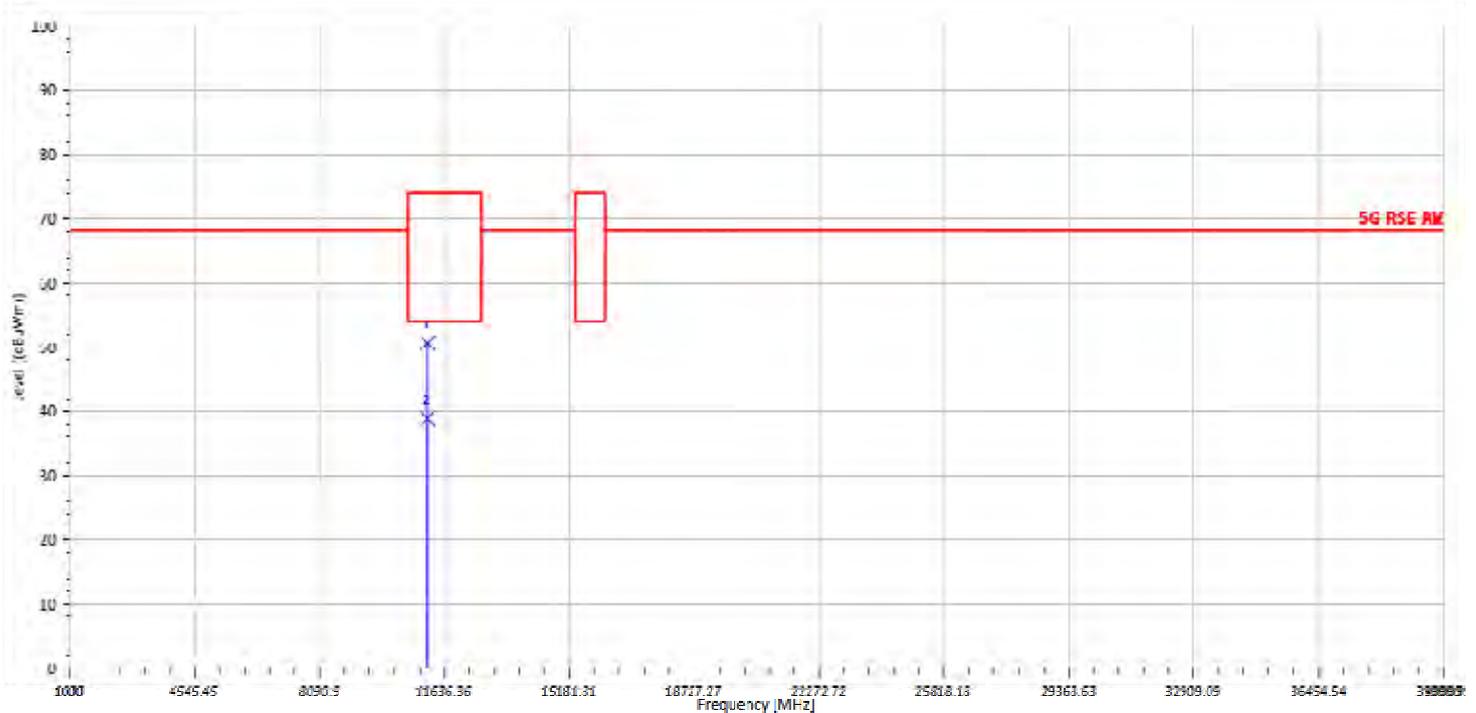
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	H	Peak	39.06	11.51	50.57	74	-23.43
11160.00	H	Average	27.67	11.51	39.18	54	-14.82

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Operation Mode : 802.11n20B3      Test Date : 2017/9/27  
 Fundamental Frequency : 5580 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH MID      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



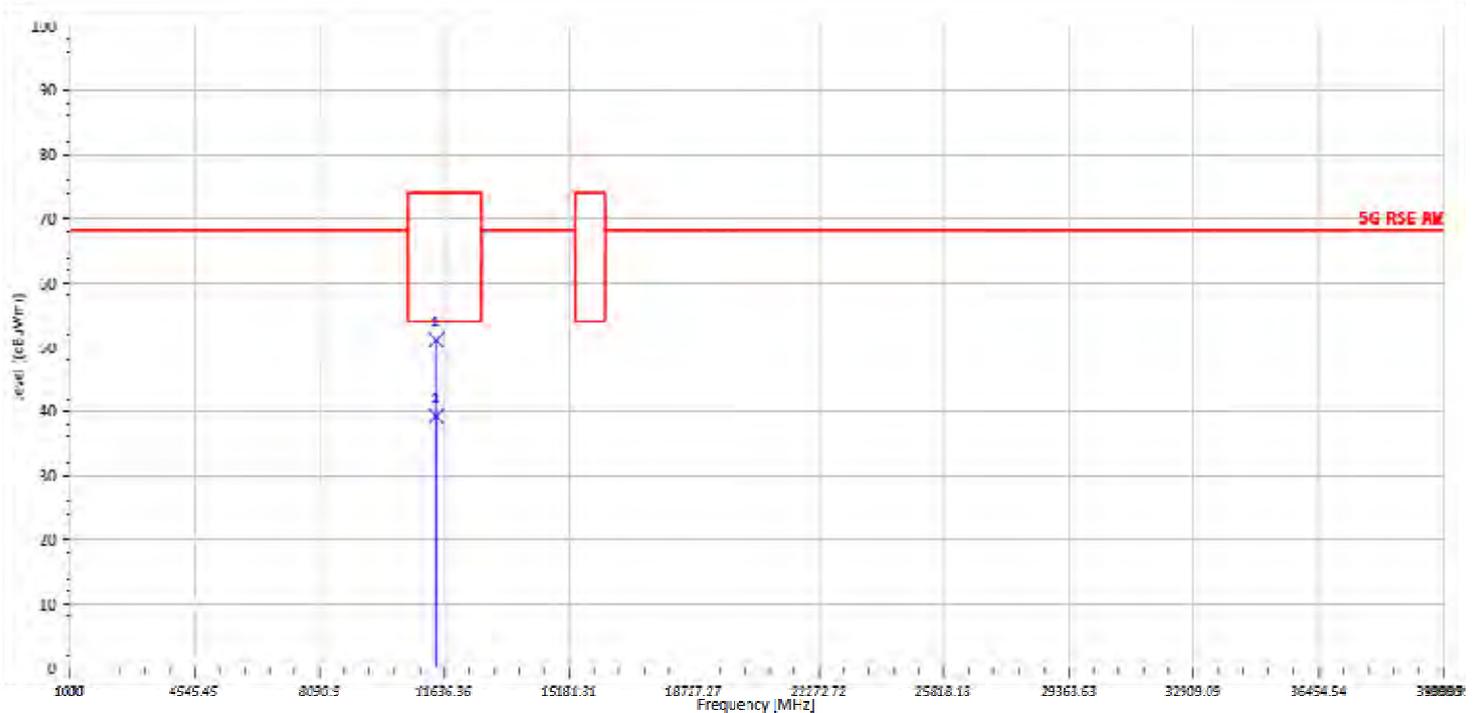
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	H	Peak	39.19	11.51	50.70	74	-23.30
11160.00	H	Average	27.43	11.51	38.94	54	-15.06

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Operation Mode : 802.11n20B3      Test Date : 2017/9/27  
 Fundamental Frequency : 5700 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH HIGH      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Vertical



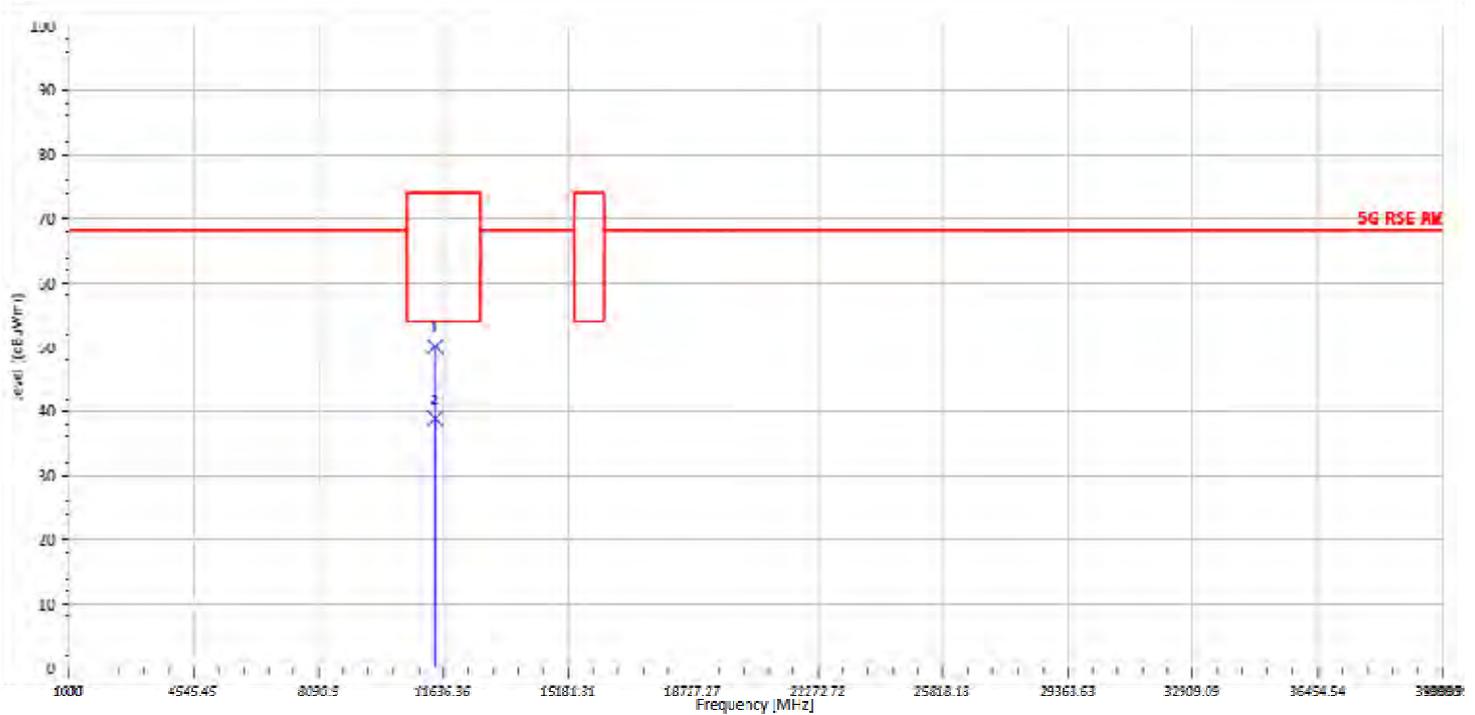
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	H	Peak	39.54	11.60	51.14	74	-22.86
11400.00	H	Average	27.69	11.60	39.29	54	-14.71

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Operation Mode :	802.11n20B3	Test Date :	2017/9/27
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBEμV	Factor dB	Actual FS dBEμV/m	Limit @3m dBEμV/m	Margin dB
11400.00	H	Peak	38.52	11.60	50.12	74	-23.88
11400.00	H	Average	27.36	11.60	38.96	54	-15.04

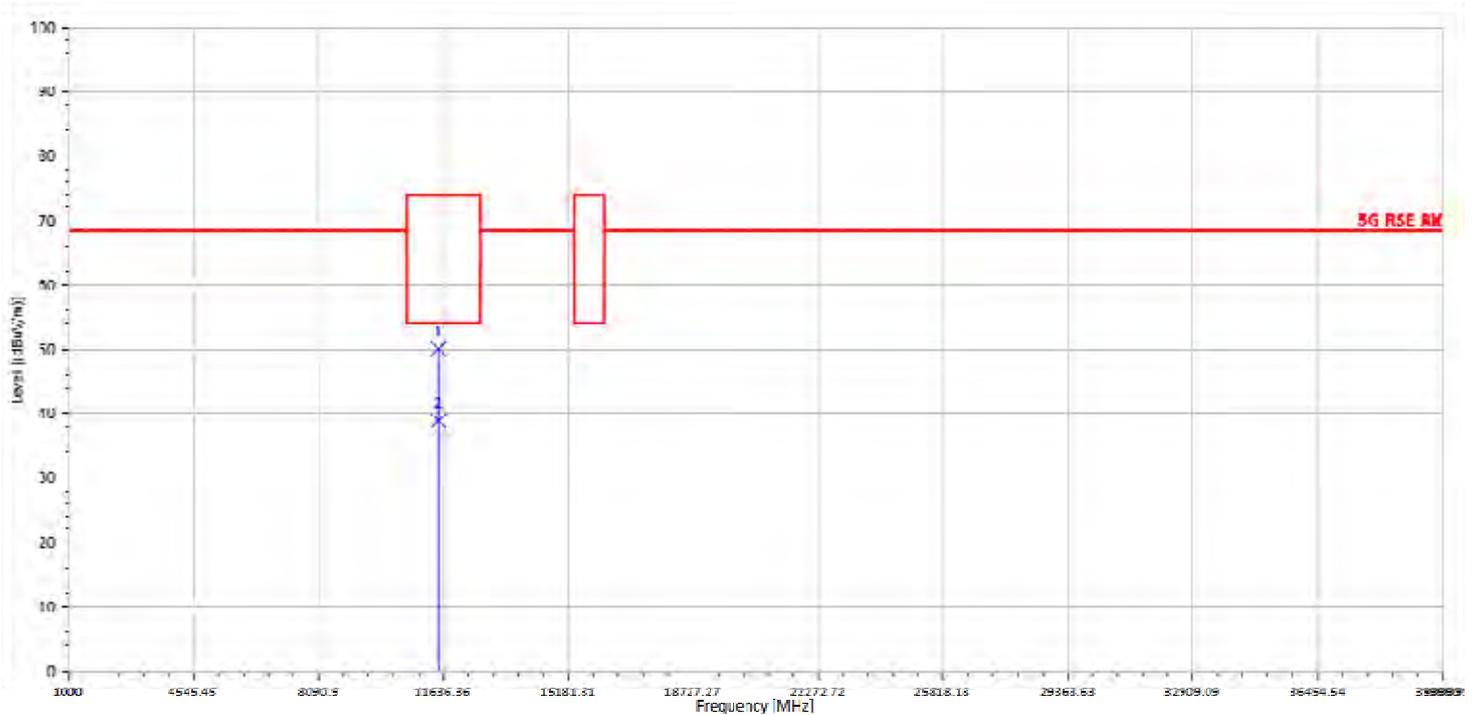
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode :	802.11n20B4	Test Date :	2017/9/27
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



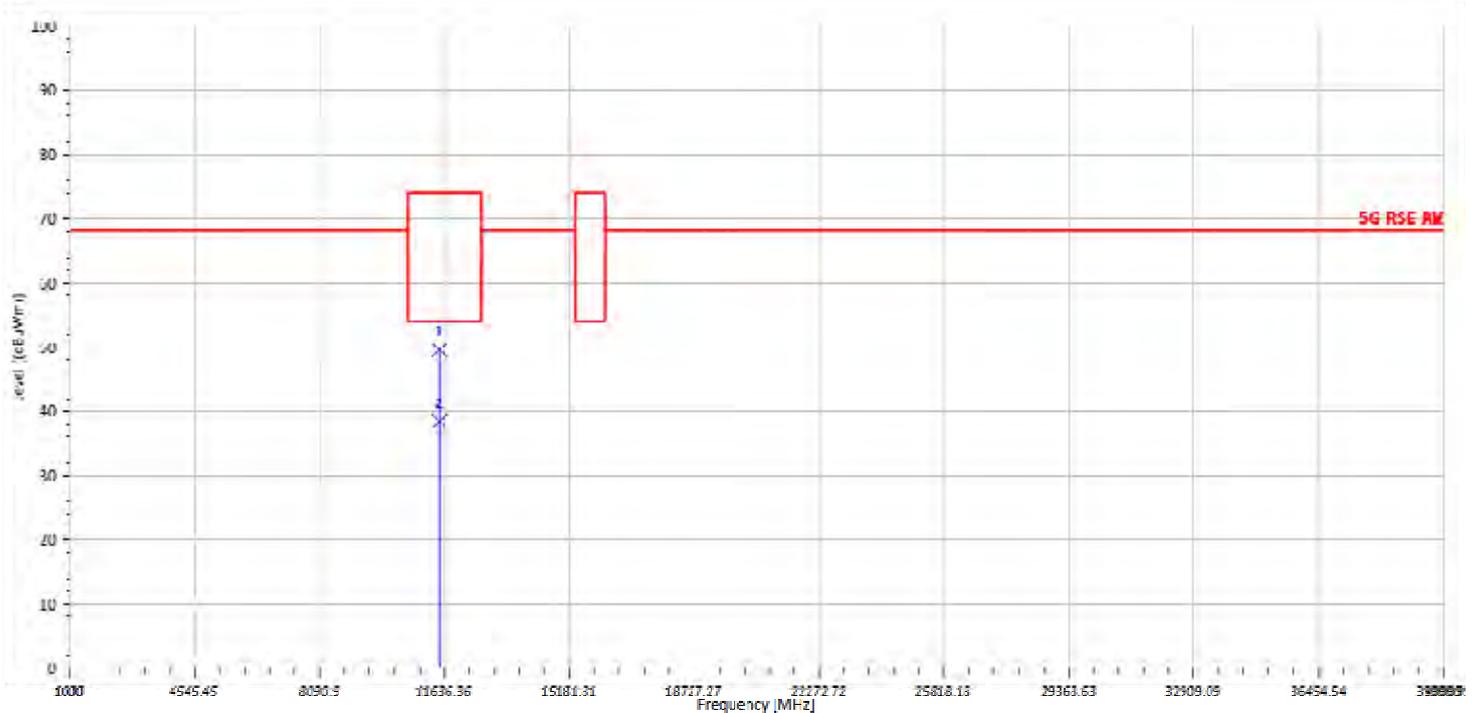
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11490.00	H	Peak	38.89	11.18	50.07	74	-23.93
11490.00	H	Average	27.70	11.18	38.87	54	-15.13

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Operation Mode : 802.11n20B4      Test Date : 2017/9/27  
 Fundamental Frequency : 5745 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH LOW      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



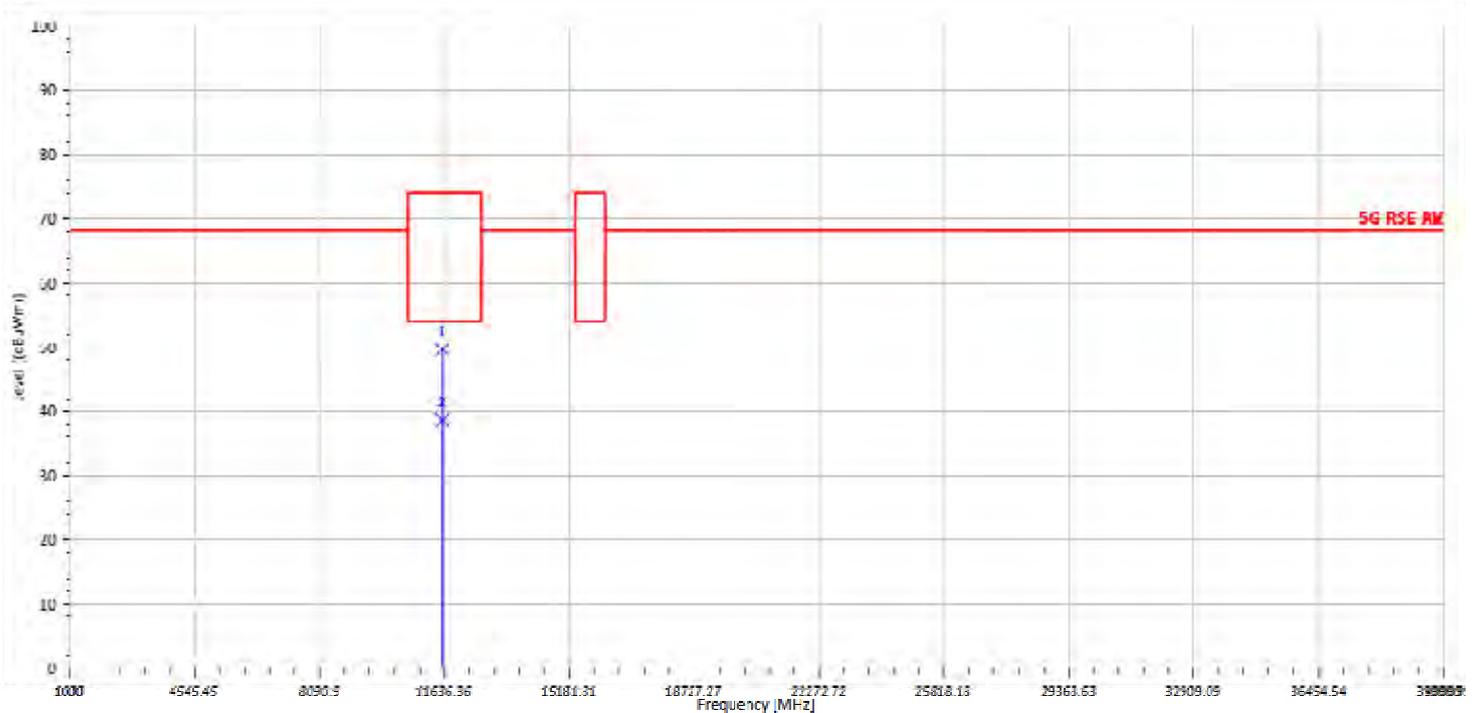
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBEμV	Factor dB	Actual FS dBEμV/m	Limit @3m dBEμV/m	Margin dB
11490.00	H	Peak	38.46	11.18	49.64	74	-24.36
11490.00	H	Average	27.34	11.18	38.52	54	-15.48

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Operation Mode :	802.11n20B4	Test Date :	2017/9/27
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH MID	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



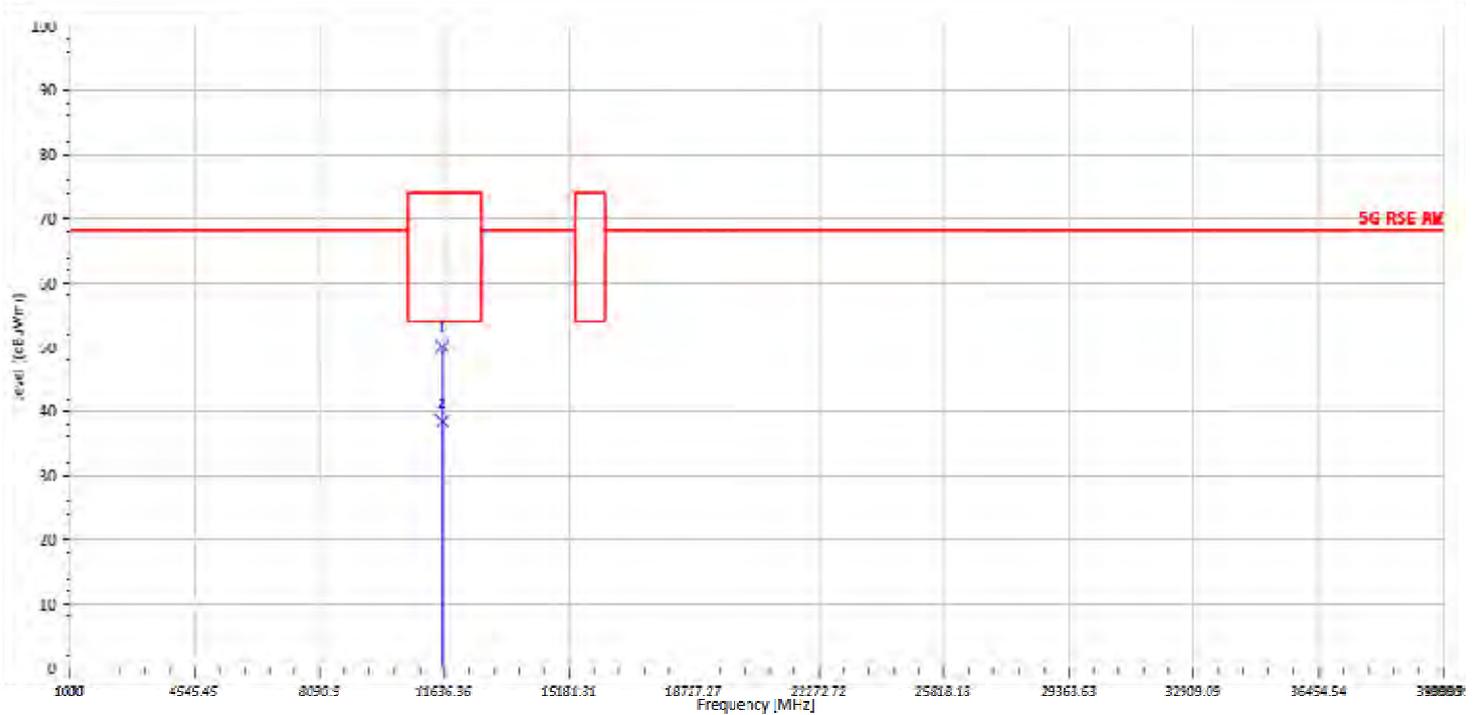
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	H	Peak	38.61	11.06	49.67	74	-24.33
11570.00	H	Average	27.66	11.06	38.72	54	-15.28

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Operation Mode :	802.11n20B4	Test Date :	2017/9/27
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH MID	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



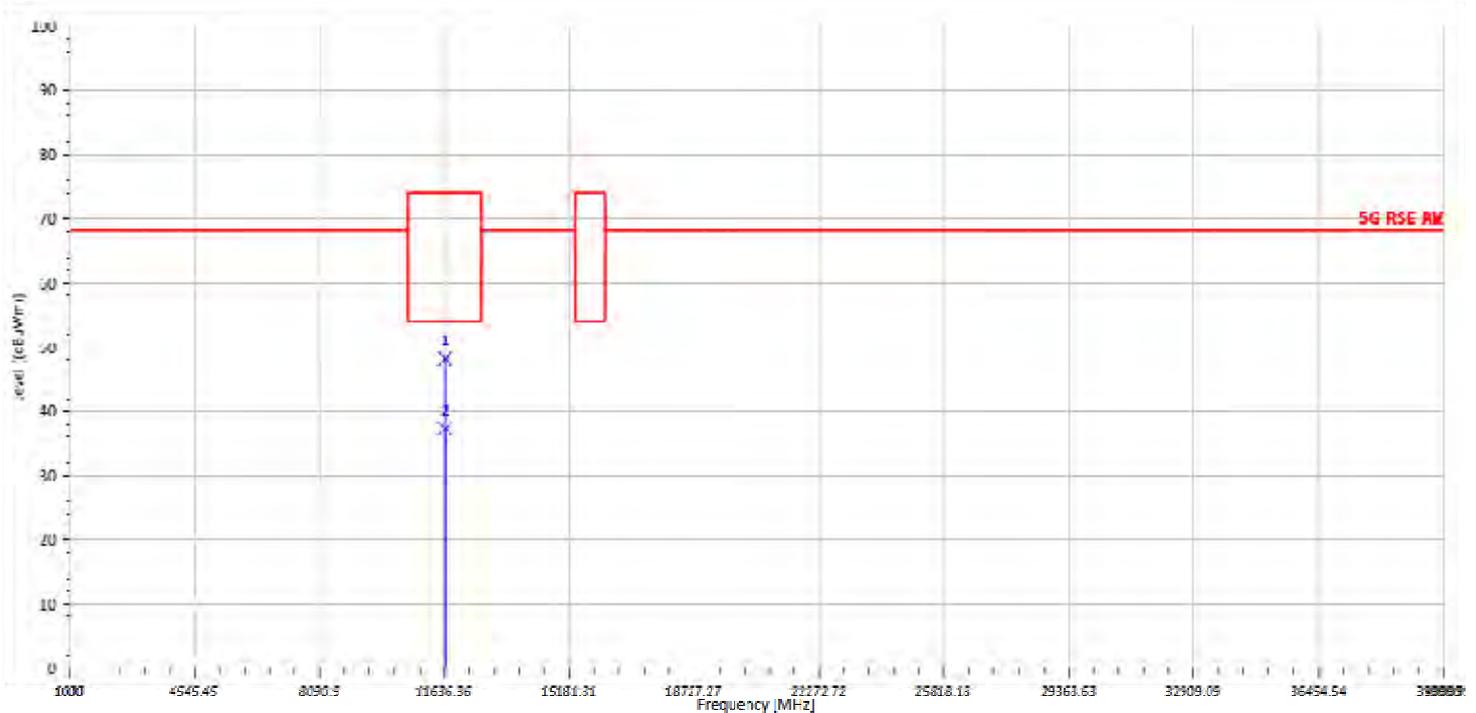
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBEμV	Factor dB	Actual FS dBEμV/m	Limit @3m dBEμV/m	Margin dB
11570.00	H	Peak	39.05	11.06	50.12	74	-23.88
11570.00	H	Average	27.45	11.06	38.51	54	-15.49

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Operation Mode :	802.11n20B4	Test Date :	2017/9/27
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



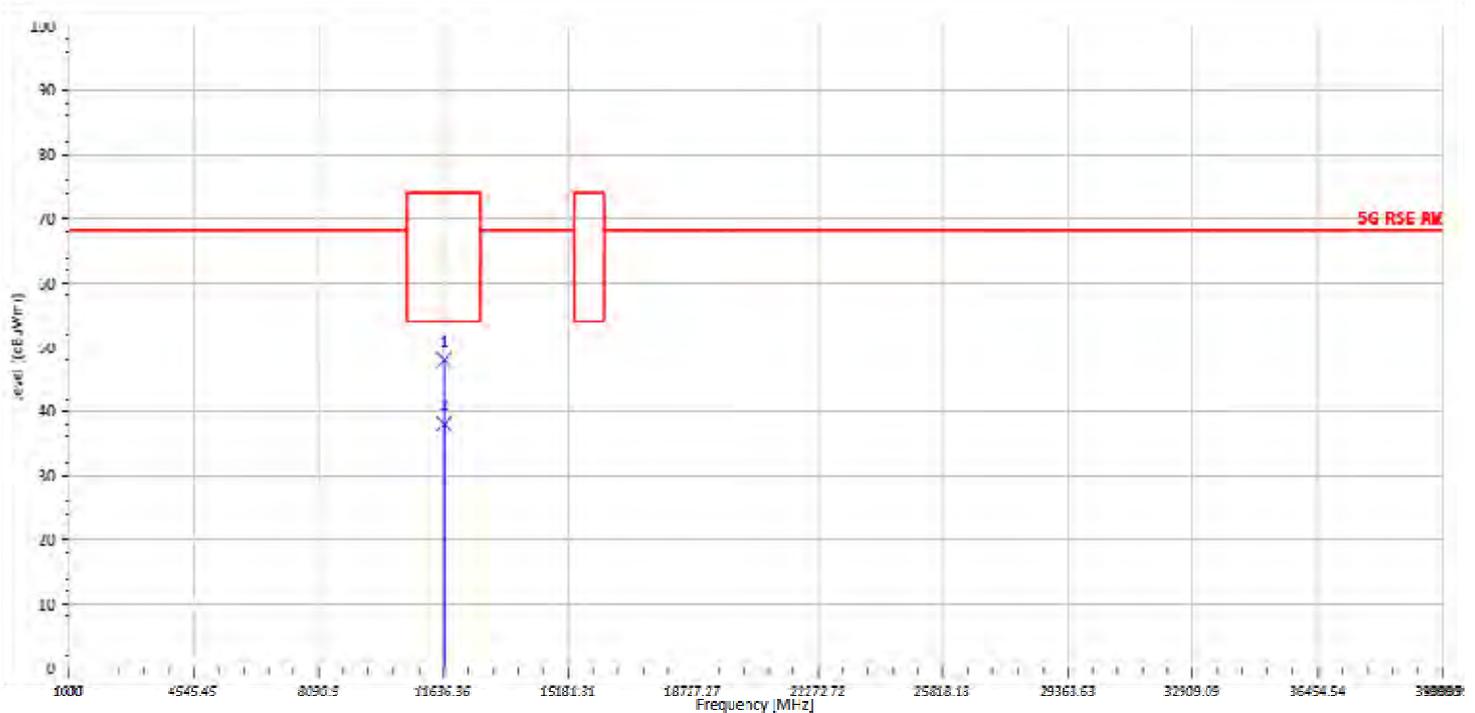
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	H	Peak	37.52	10.69	48.21	74	-25.79
11650.00	H	Average	26.67	10.69	37.36	54	-16.64

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Operation Mode : 802.11n20B4      Test Date : 2017/9/27  
 Fundamental Frequency : 5825 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH HIGH      Test Engineer : Enzo  
 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	37.35	10.69	48.04	74	-25.96
11650.00	H	Average	27.39	10.69	38.08	54	-15.92

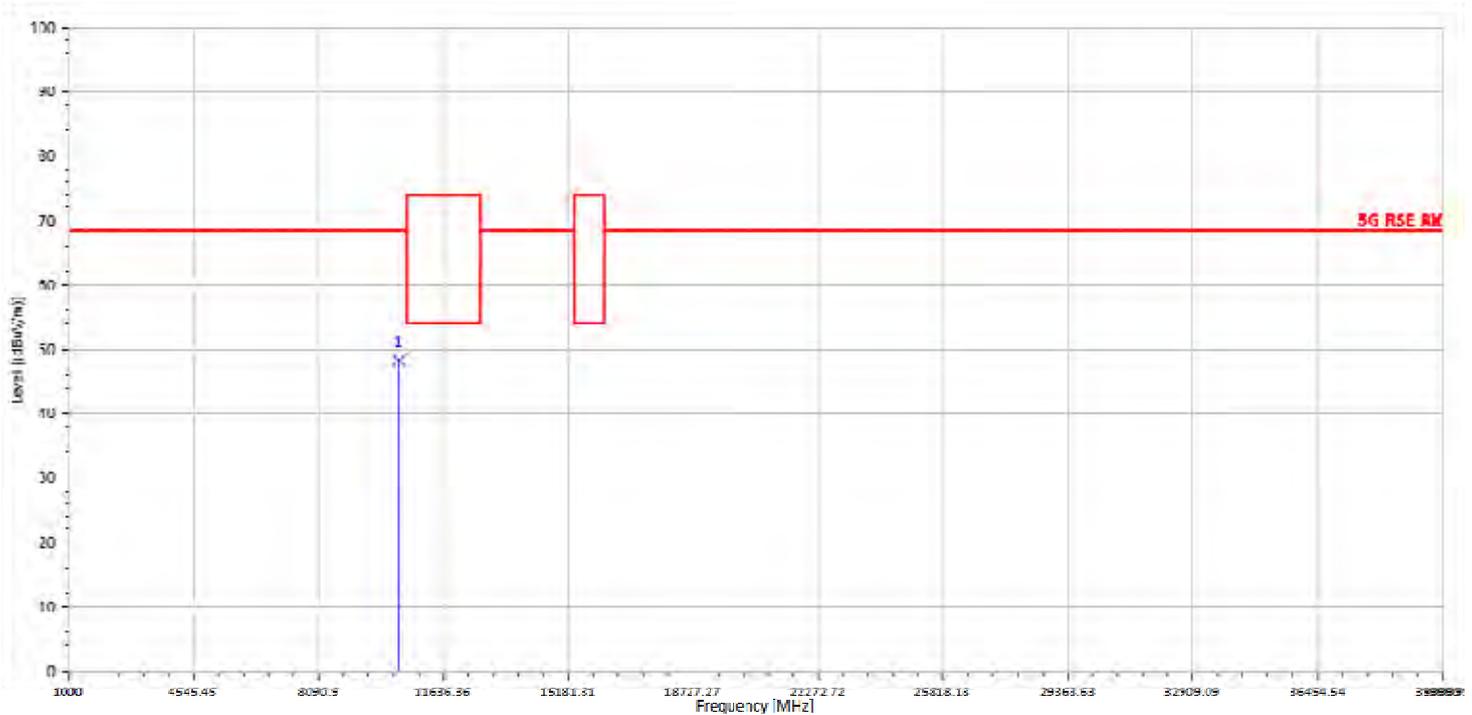
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### Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode :	802.11n40B1	Test Date :	2017/9/27
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



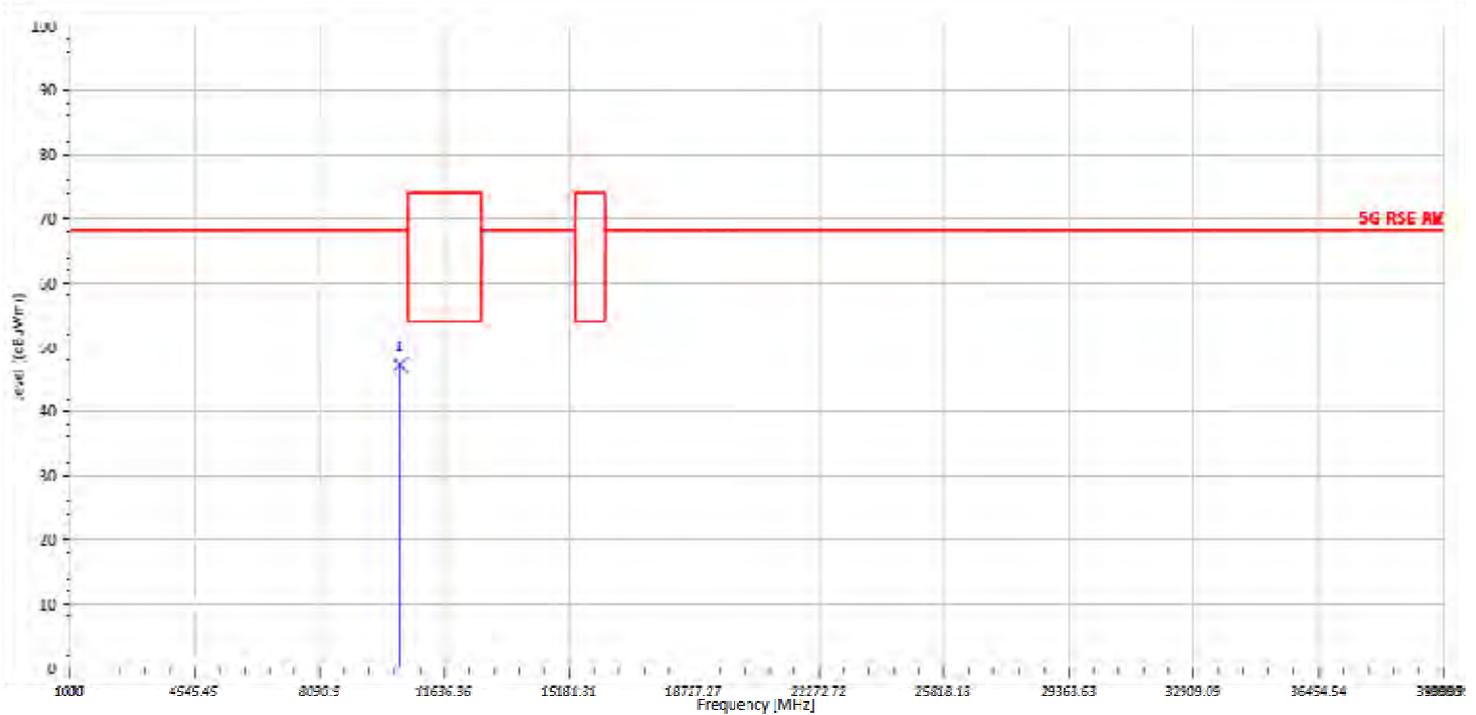
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10380.00	H	Peak	38.86	9.38	48.24	68.3	-20.06

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Operation Mode : 802.11n40B1      Test Date : 2017/9/27  
 Fundamental Frequency : 5190 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH LOW      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



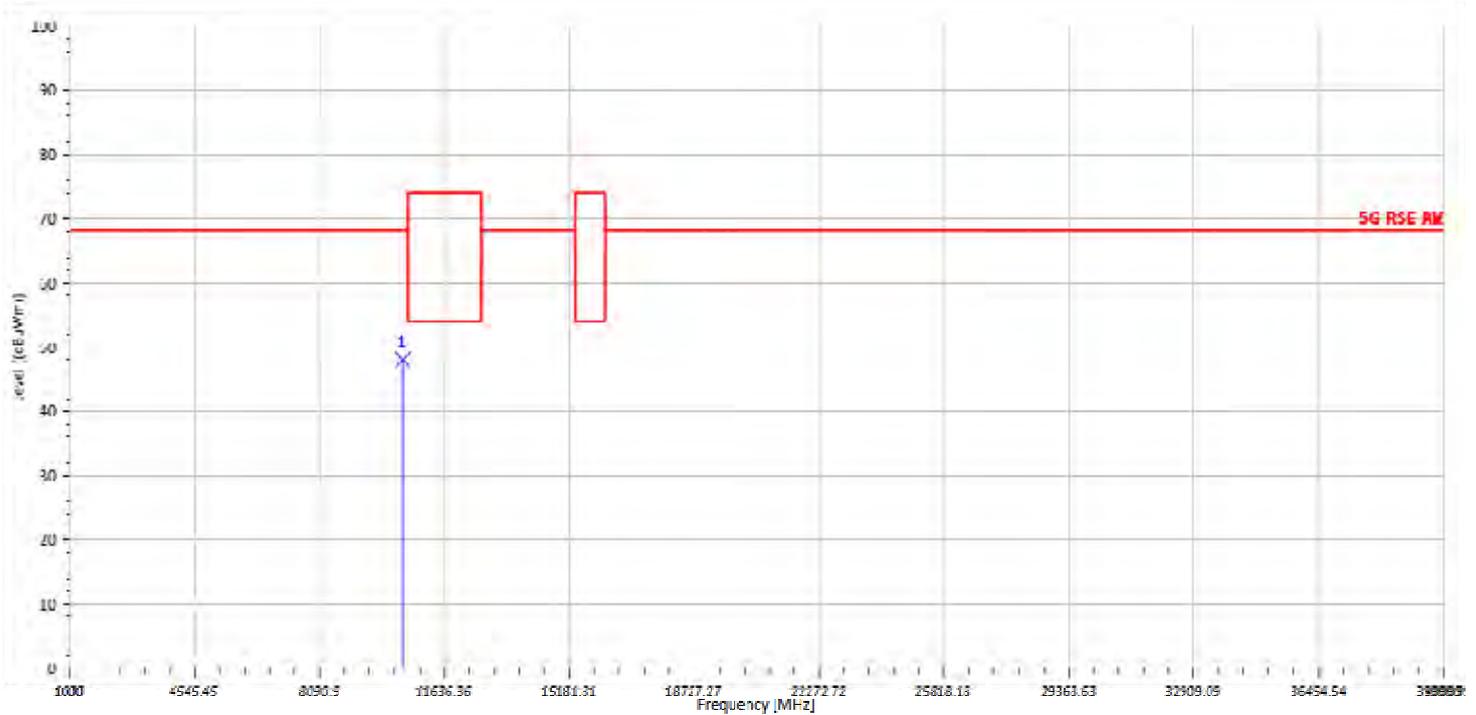
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10380.00	H	Peak	37.92	9.38	47.30	68.3	-21.00

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Operation Mode :	802.11n40B1	Test Date :	2017/9/27
Fundamental Frequency :	5230 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



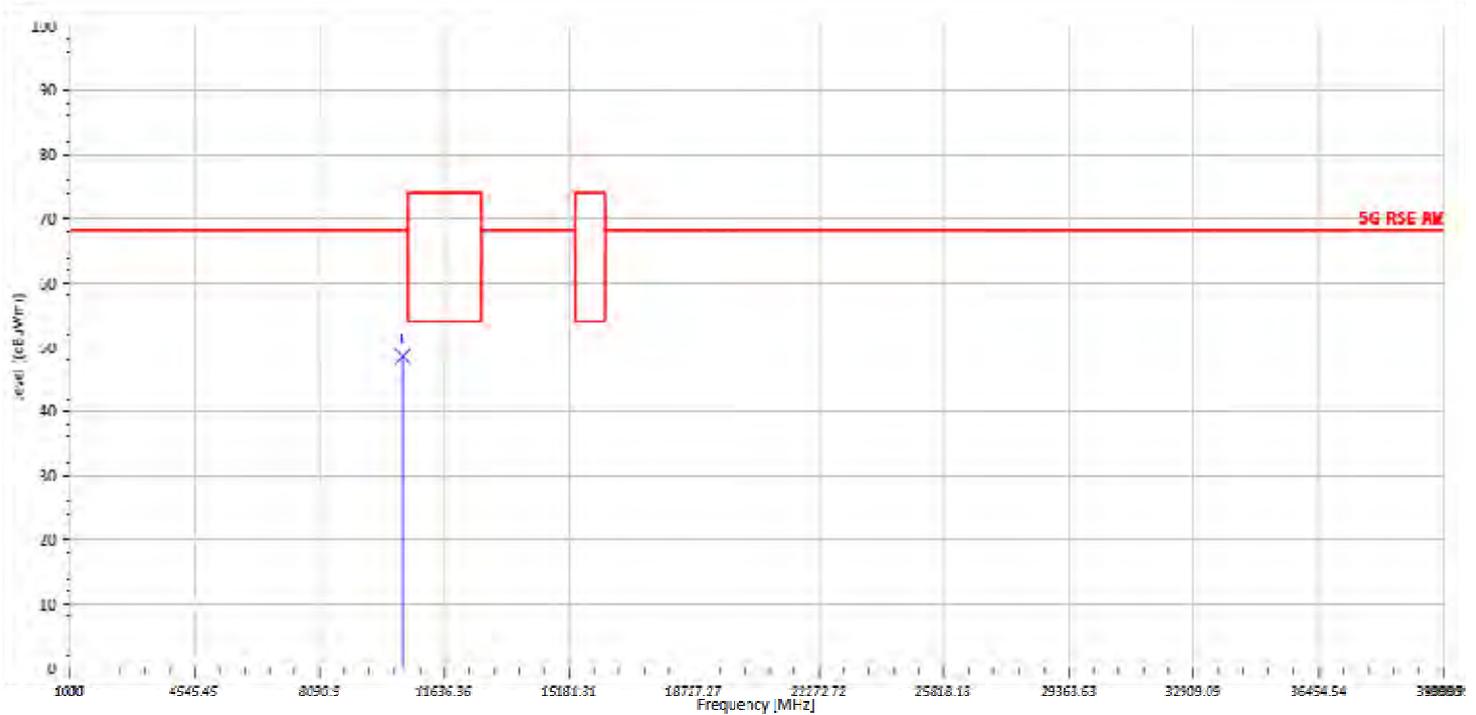
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.00	H	Peak	38.45	9.61	48.06	68.3	-20.24

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Operation Mode :	802.11n40B1	Test Date :	2017/9/27
Fundamental Frequency :	5230 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Enzo
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	38.97	9.61	48.57	68.3	-19.73

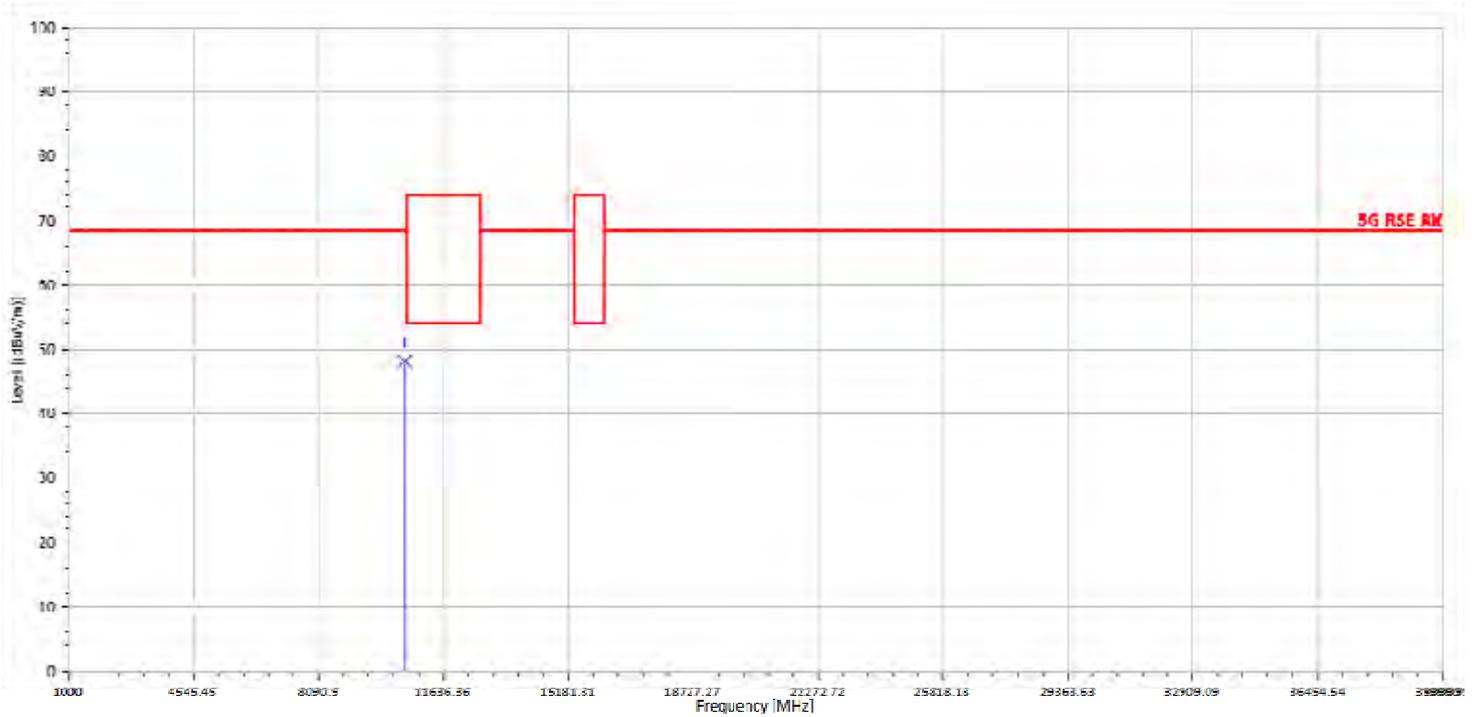
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### Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Mode :	802.11n40B2	Test Date :	2017/9/27
Fundamental Frequency :	5270 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



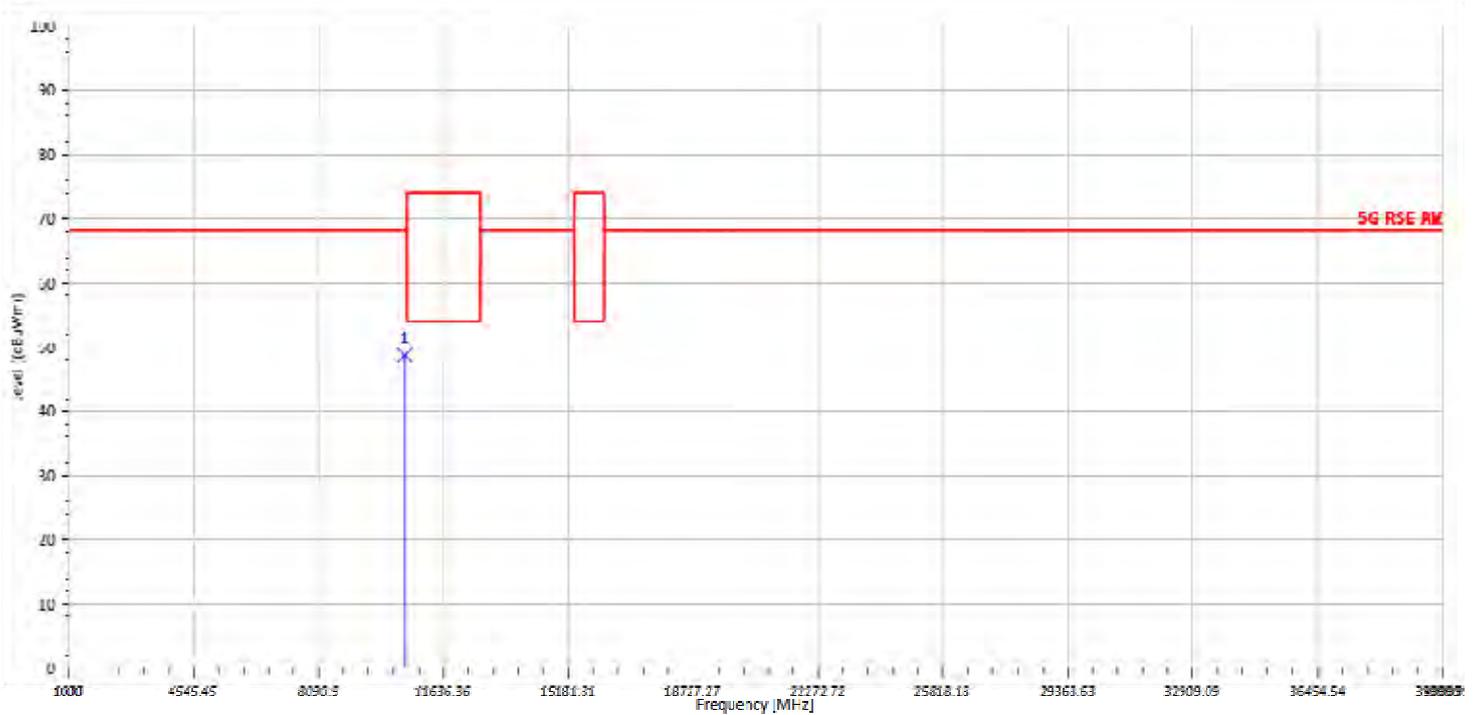
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10540.00	H	Peak	38.26	9.87	48.13	68.3	-20.17

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Operation Mode :	802.11n40B2	Test Date :	2017/9/27
Fundamental Frequency :	5270 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



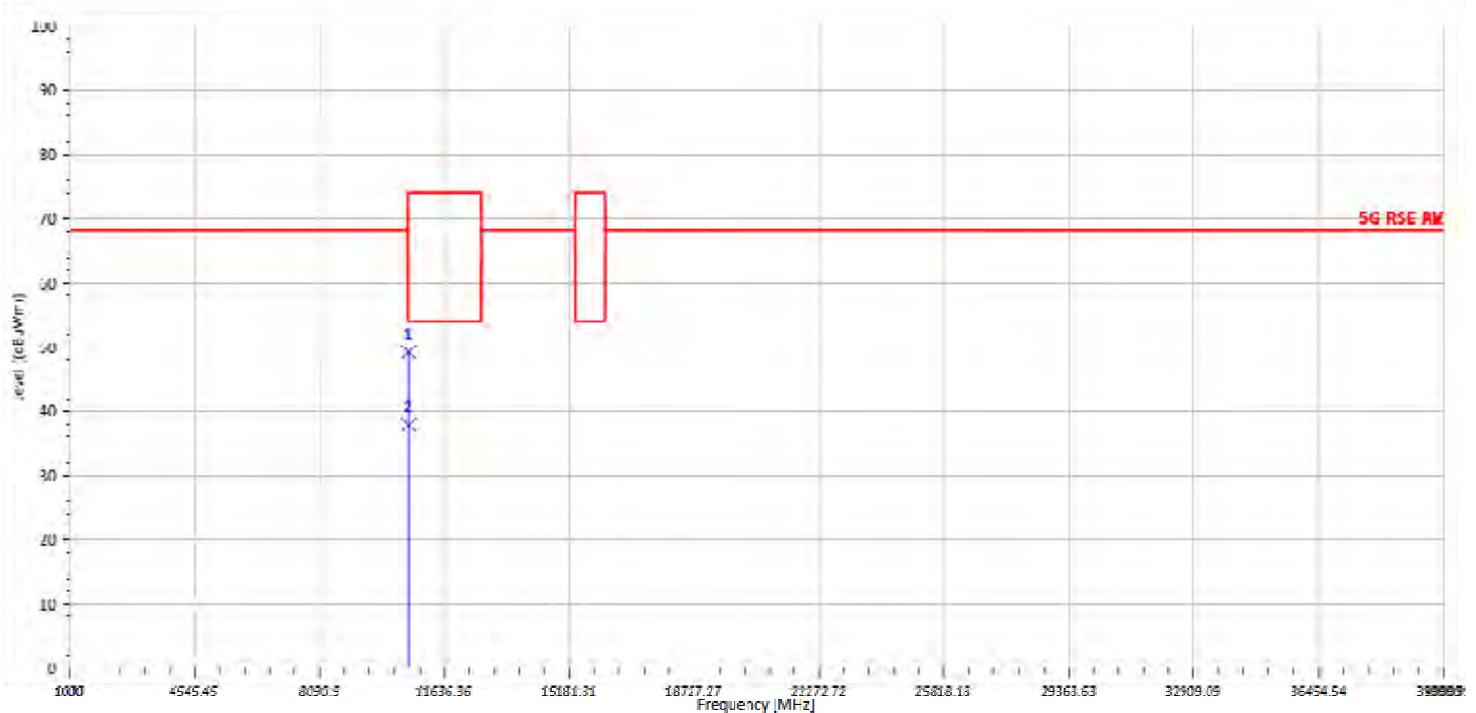
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10540.00	H	Peak	38.89	9.87	48.76	68.3	-19.54

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Operation Mode :	802.11n40B2	Test Date :	2017/9/27
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



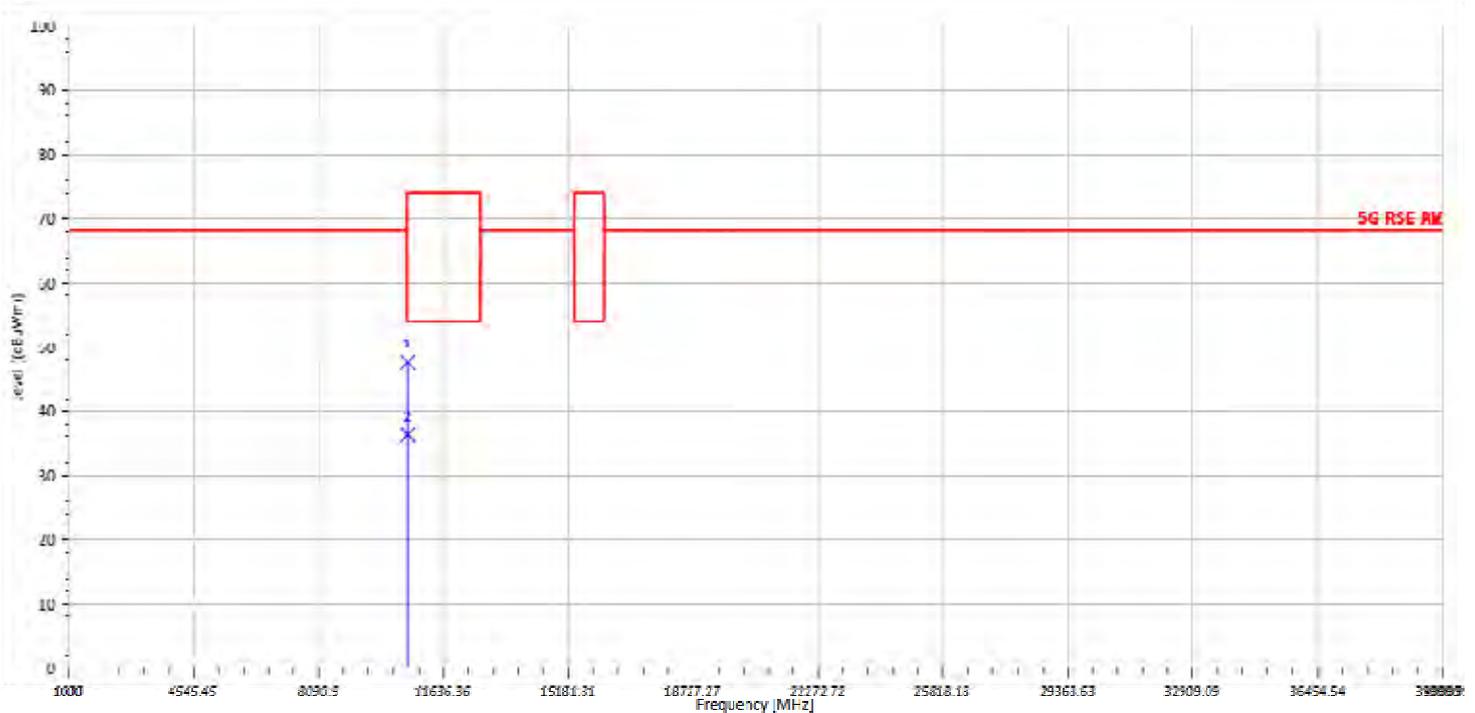
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.00	H	Peak	39.19	10.11	49.30	74	-24.70
10620.00	H	Average	27.85	10.11	37.95	54	-16.05

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Operation Mode : 802.11n40B2      Test Date : 2017/9/27  
 Fundamental Frequency : 5310 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH HIGH      Test Engineer : Enzo  
 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	37.57	10.11	47.68	74	-26.32
10620.00	H	Average	26.24	10.11	36.35	54	-17.65

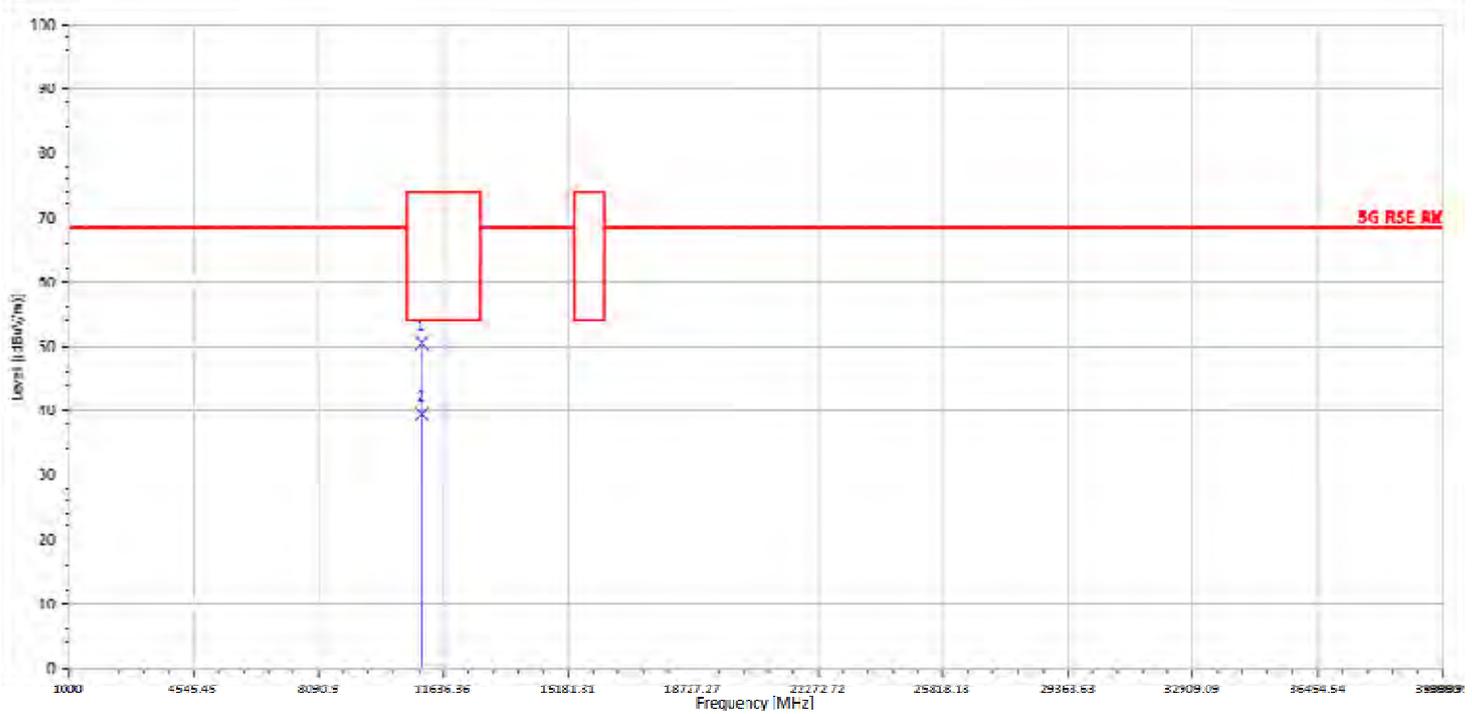
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### Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Mode :	802.11n40B3	Test Date :	2017/9/27
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



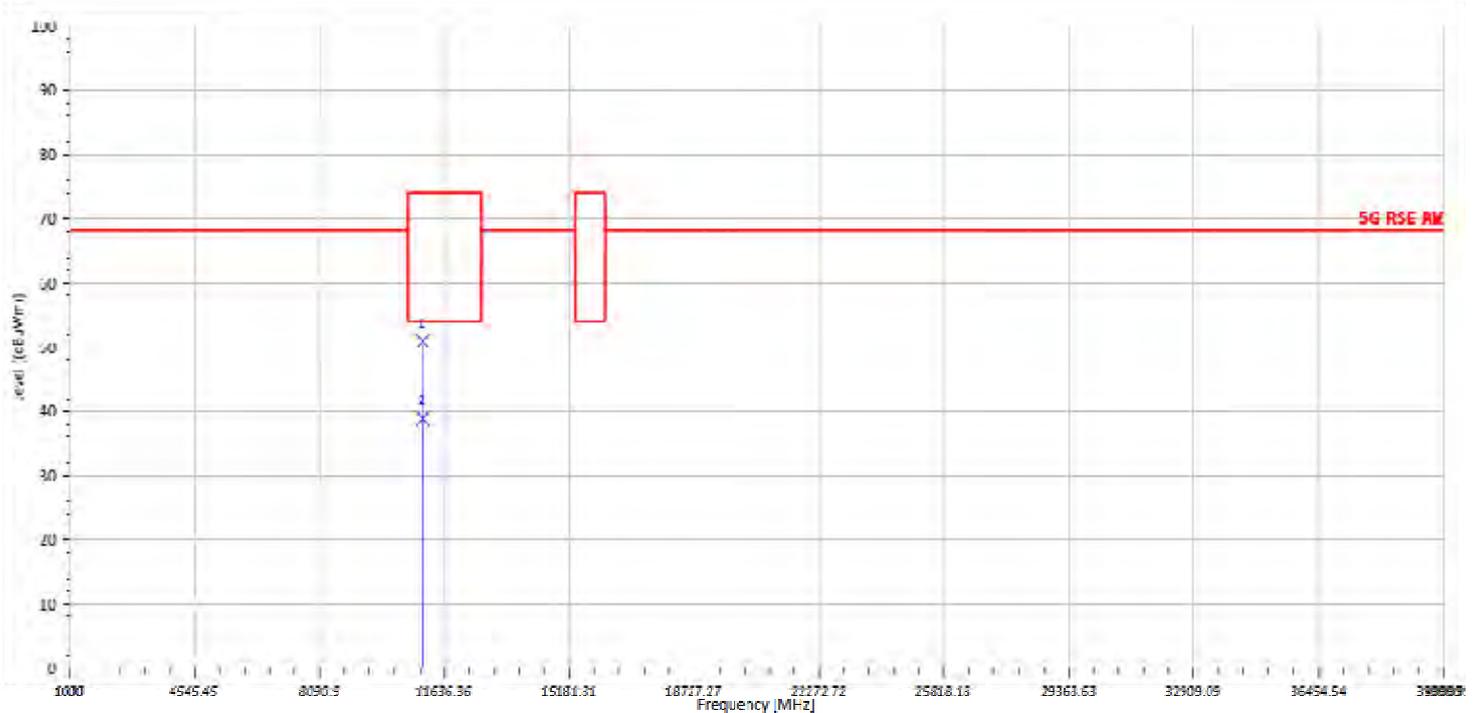
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11020.00	H	Peak	38.85	11.60	50.45	74	-23.55
11020.00	H	Average	27.85	11.60	39.45	54	-14.55

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Operation Mode : 802.11n40B3      Test Date : 2017/9/27  
 Fundamental Frequency : 5510 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH LOW      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



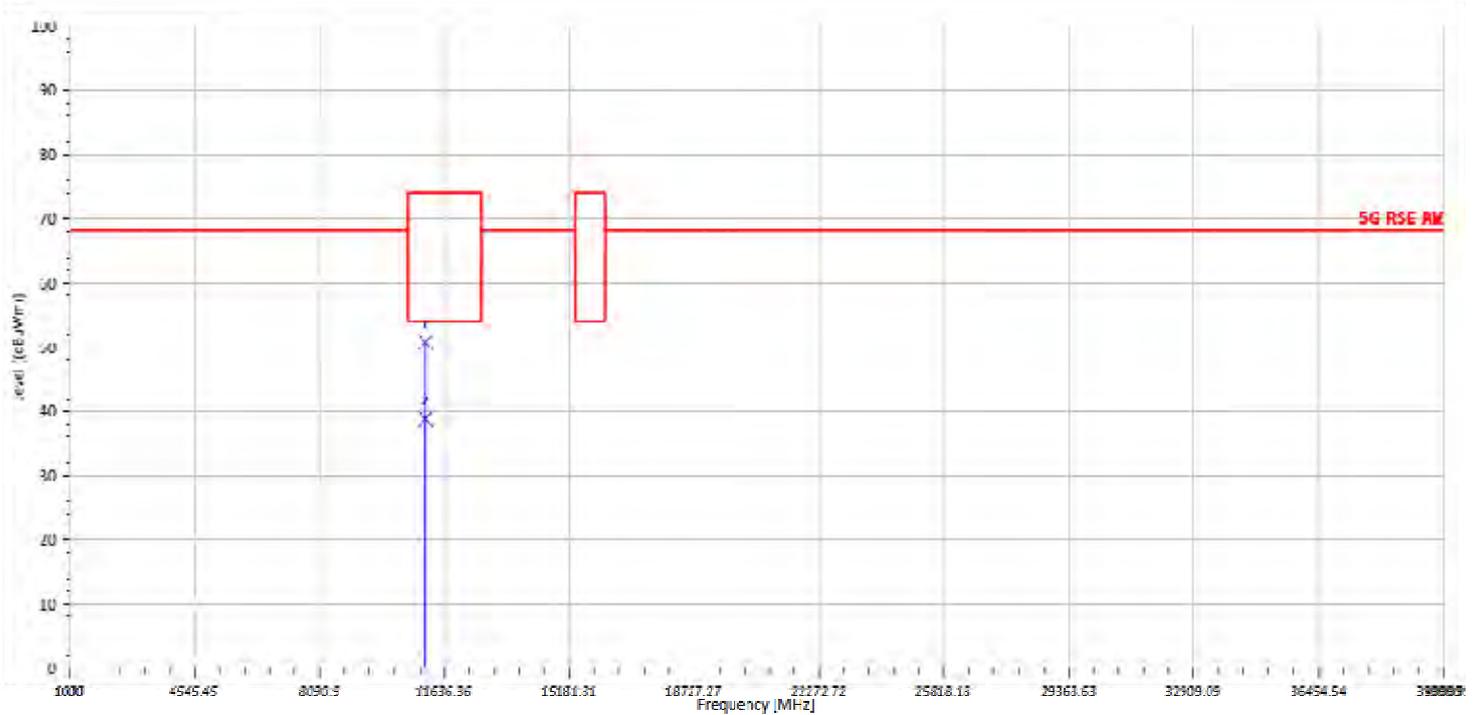
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBEμV	Factor dB	Actual FS dBEμV/m	Limit @3m dBEμV/m	Margin dB
11020.00	H	Peak	39.35	11.60	50.95	74	-23.05
11020.00	H	Average	27.33	11.60	38.93	54	-15.07

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Operation Mode :	802.11n40B3	Test Date :	2017/9/27
Fundamental Frequency :	5550 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH MID	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



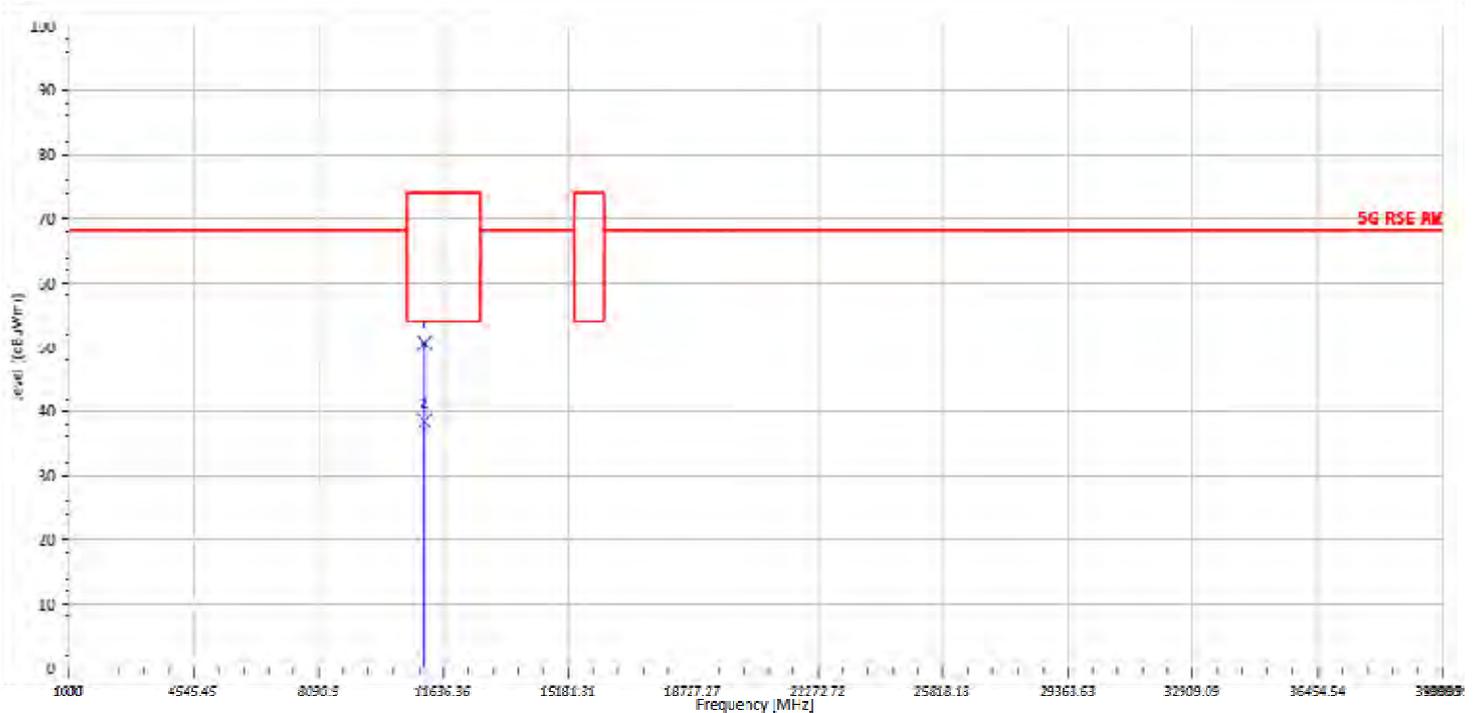
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	H	Peak	39.66	11.15	50.81	74	-23.19
11100.00	H	Average	27.74	11.15	38.89	54	-15.12

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Operation Mode :	802.11n40B3	Test Date :	2017/9/27
Fundamental Frequency :	5550 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH MID	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



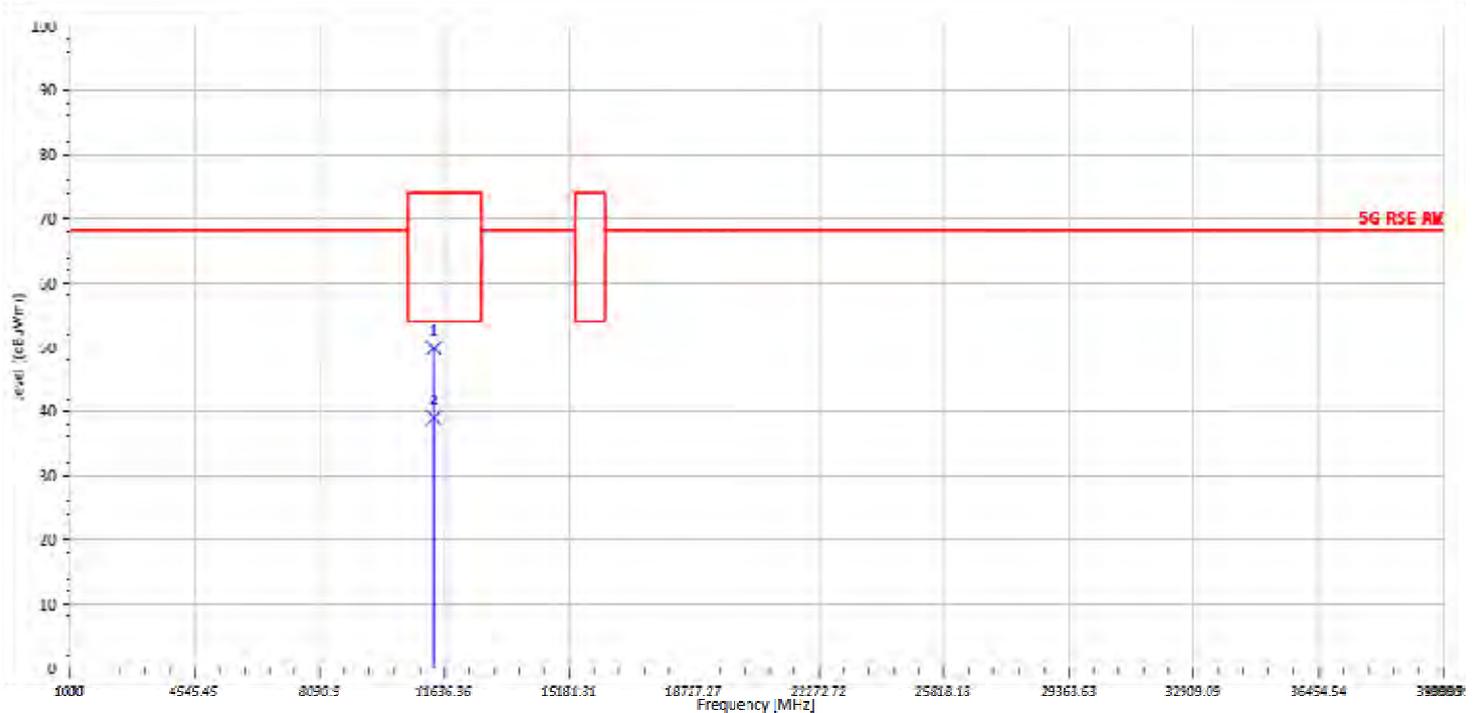
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	H	Peak	39.52	11.15	50.67	74	-23.33
11100.00	H	Average	27.38	11.15	38.53	54	-15.47

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Operation Mode :	802.11n40B3	Test Date :	2017/9/27
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



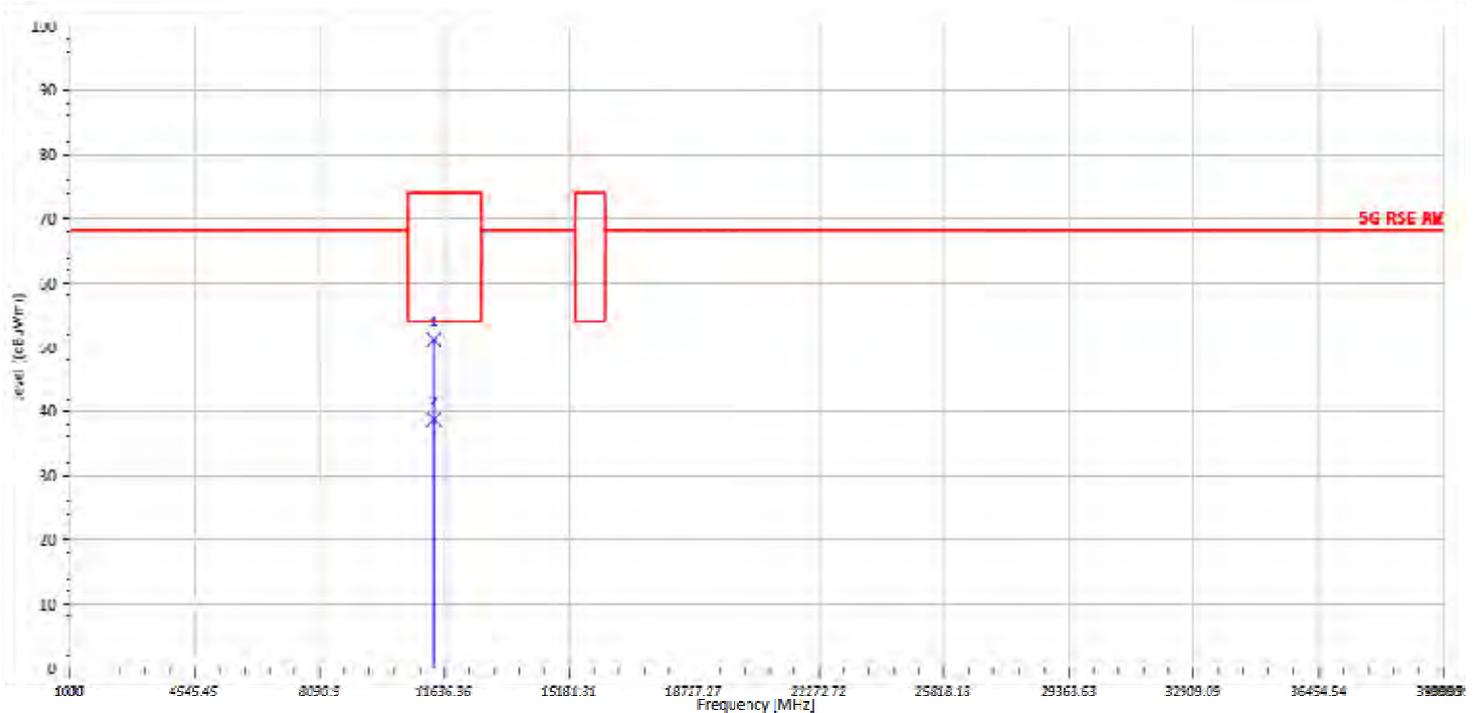
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11340.00	H	Peak	38.52	11.37	49.89	74	-24.11
11340.00	H	Average	27.70	11.37	39.07	54	-14.93

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Operation Mode :	802.11n40B3	Test Date :	2017/9/27
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBEμV	Factor dB	Actual FS dBEμV/m	Limit @3m dBEμV/m	Margin dB
11340.00	H	Peak	39.85	11.37	51.22	74	-22.78
11340.00	H	Average	27.46	11.37	38.83	54	-15.17

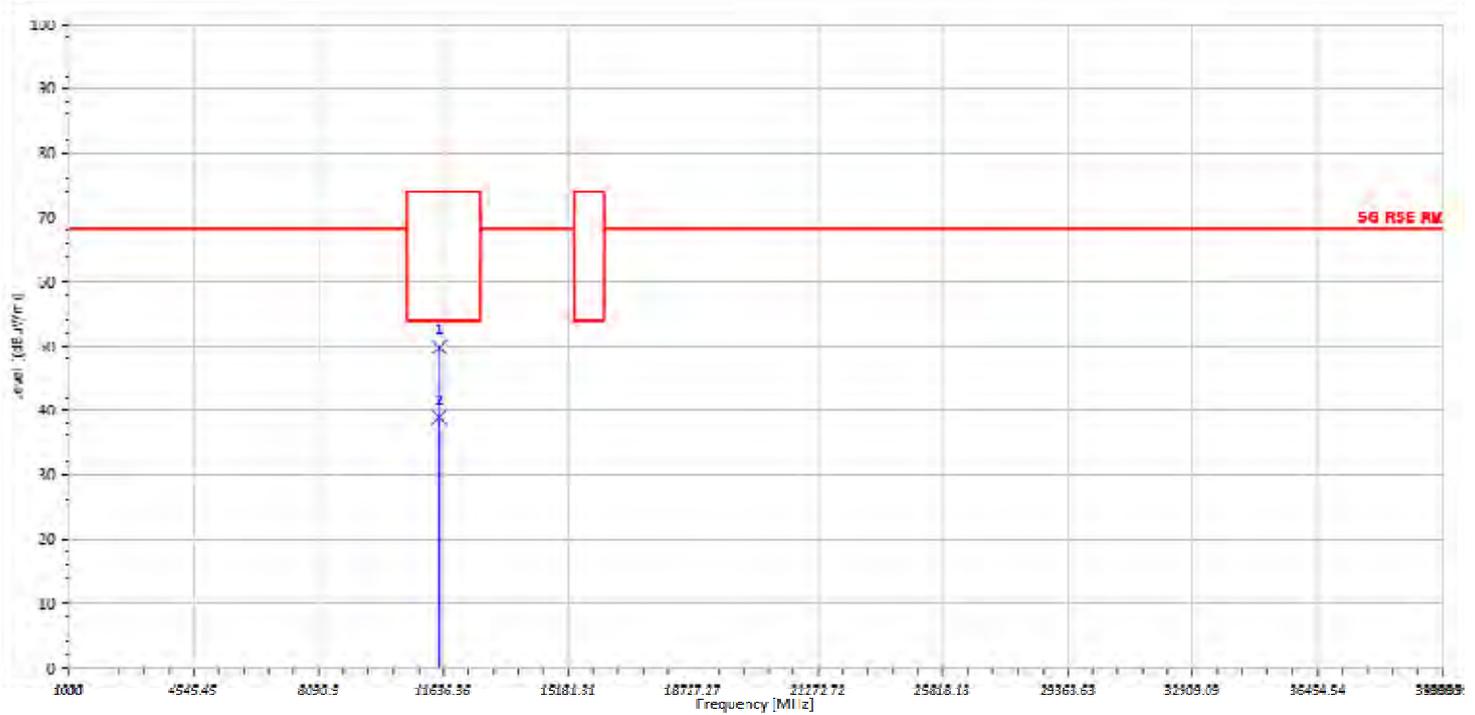
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### Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode :	802.11n40B4	Test Date :	2017/9/27
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



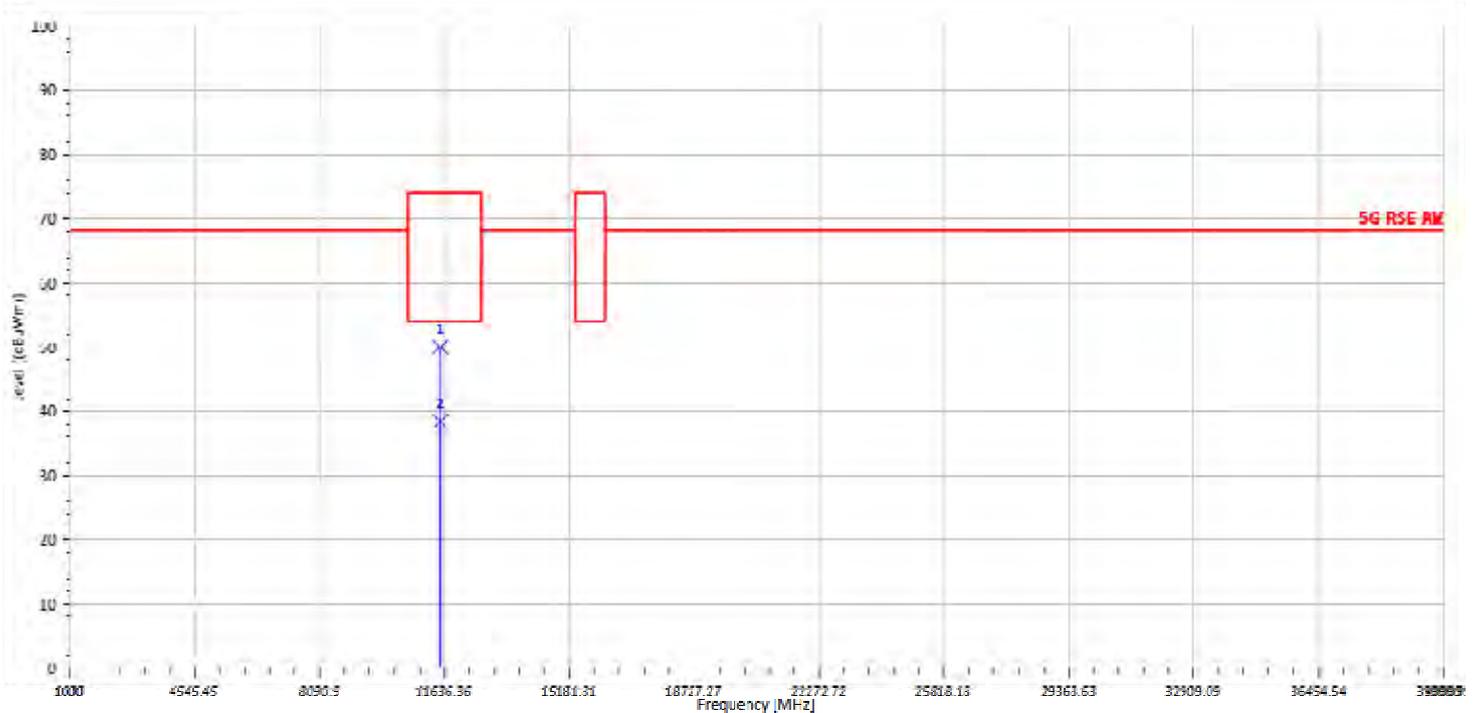
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11510.00	H	Peak	38.68	11.12	49.80	74	-24.20
11510.00	H	Average	27.78	11.12	38.90	54	-15.10

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Operation Mode :	802.11n40B4	Test Date :	2017/9/27
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



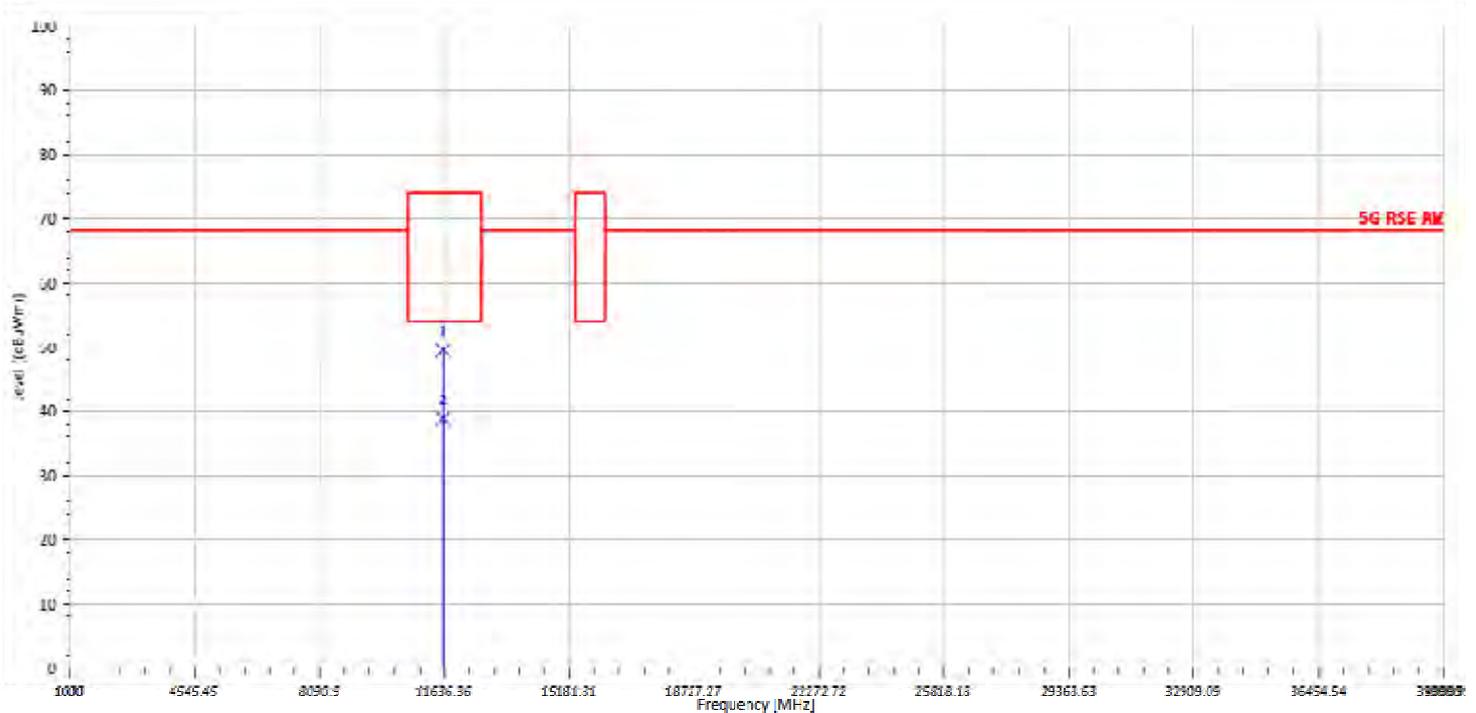
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	H	Peak	38.93	11.12	50.05	74	-23.95
11510.00	H	Average	27.35	11.12	38.47	54	-15.53

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Operation Mode :	802.11n40B4	Test Date :	2017/9/27
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



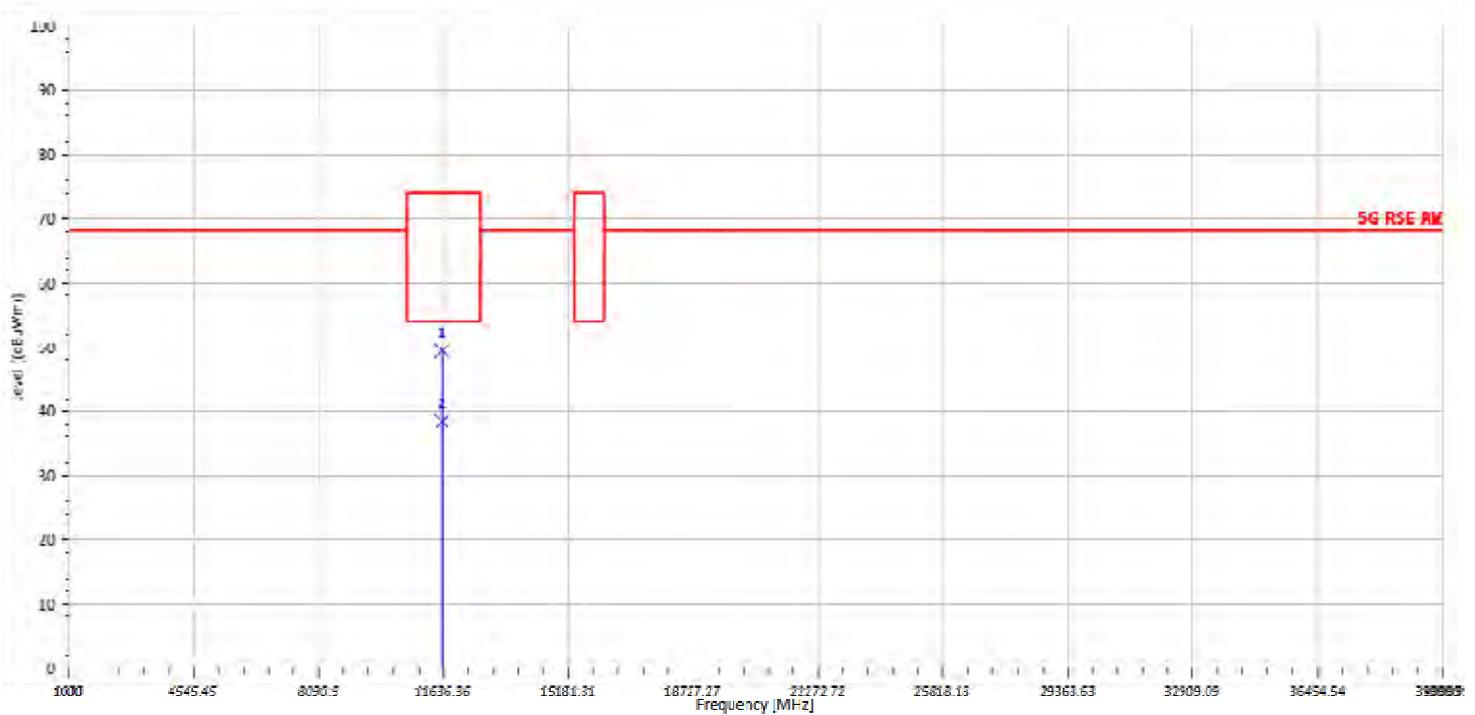
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	H	Peak	38.52	11.05	49.57	74	-24.44
11590.00	H	Average	27.88	11.05	38.92	54	-15.08

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Operation Mode : 802.11n40B4 Test Date : 2017/9/27  
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH HIGH Test Engineer : Enzo  
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBEμV	Factor dB	Actual FS dBEμV/m	Limit @3m dBEμV/m	Margin dB
11590.00	H	Peak	38.44	11.05	49.48	74	-24.52
11590.00	H	Average	27.45	11.05	38.49	54	-15.51

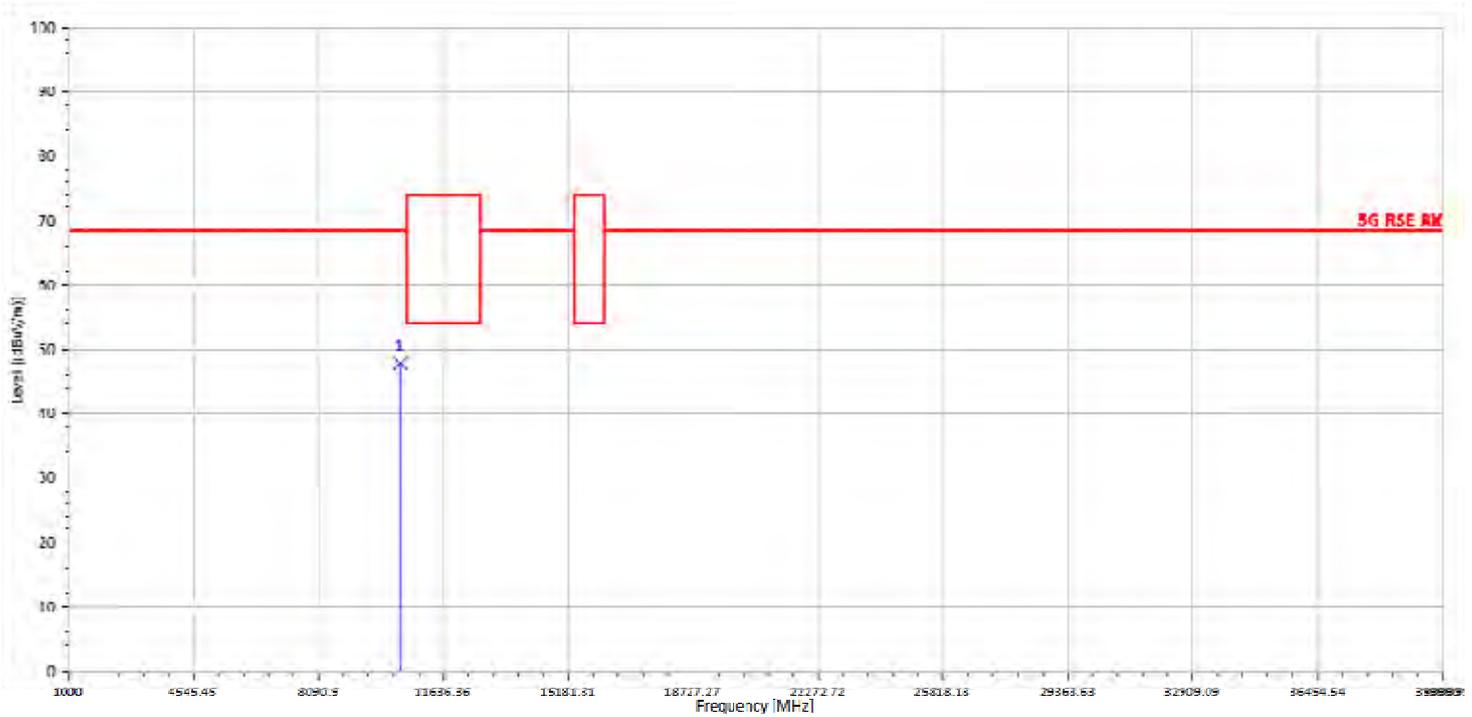
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### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode :	802.11ac80B1	Test Date :	2017/9/27
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



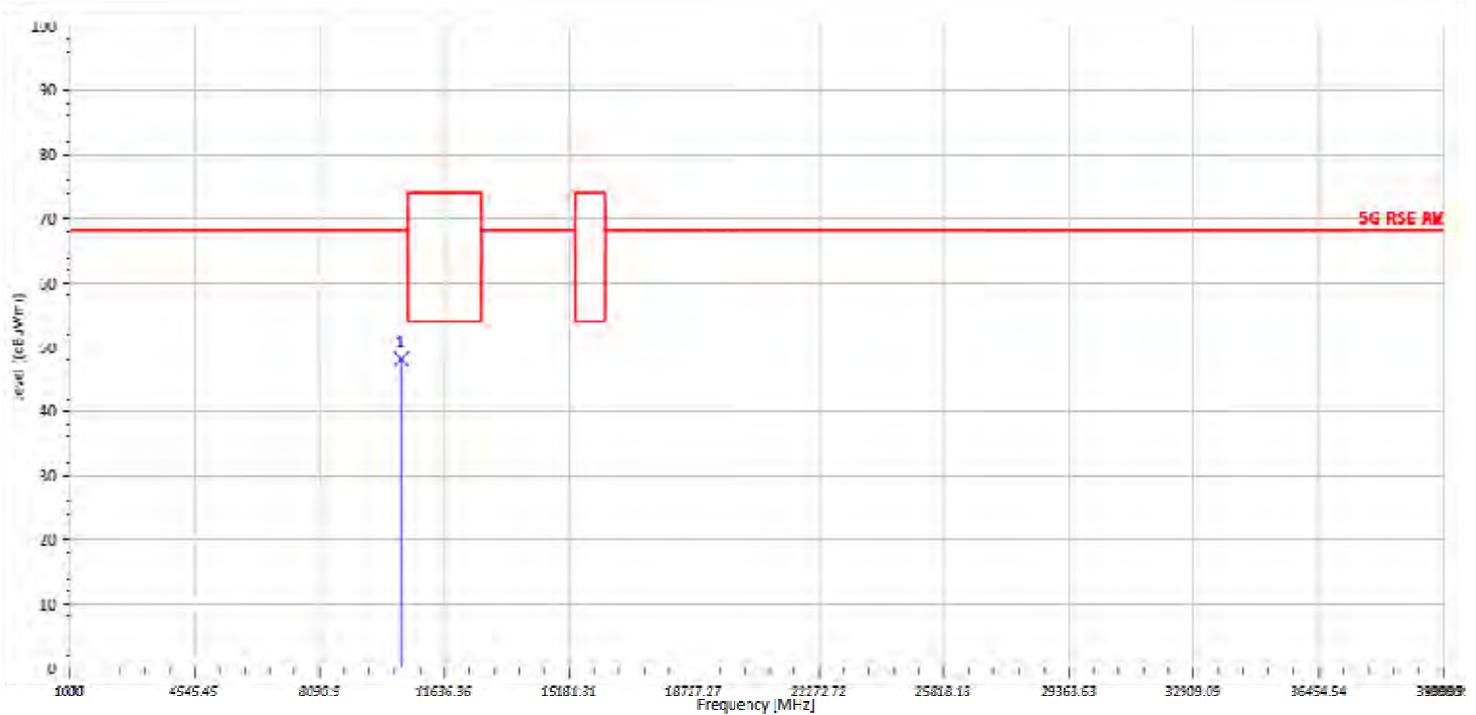
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10420.00	H	Peak	38.27	9.53	47.80	68.3	-20.50

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Operation Mode :	802.11ac80B1	Test Date :	2017/9/27
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
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	38.63	9.53	48.17	68.3	-20.13

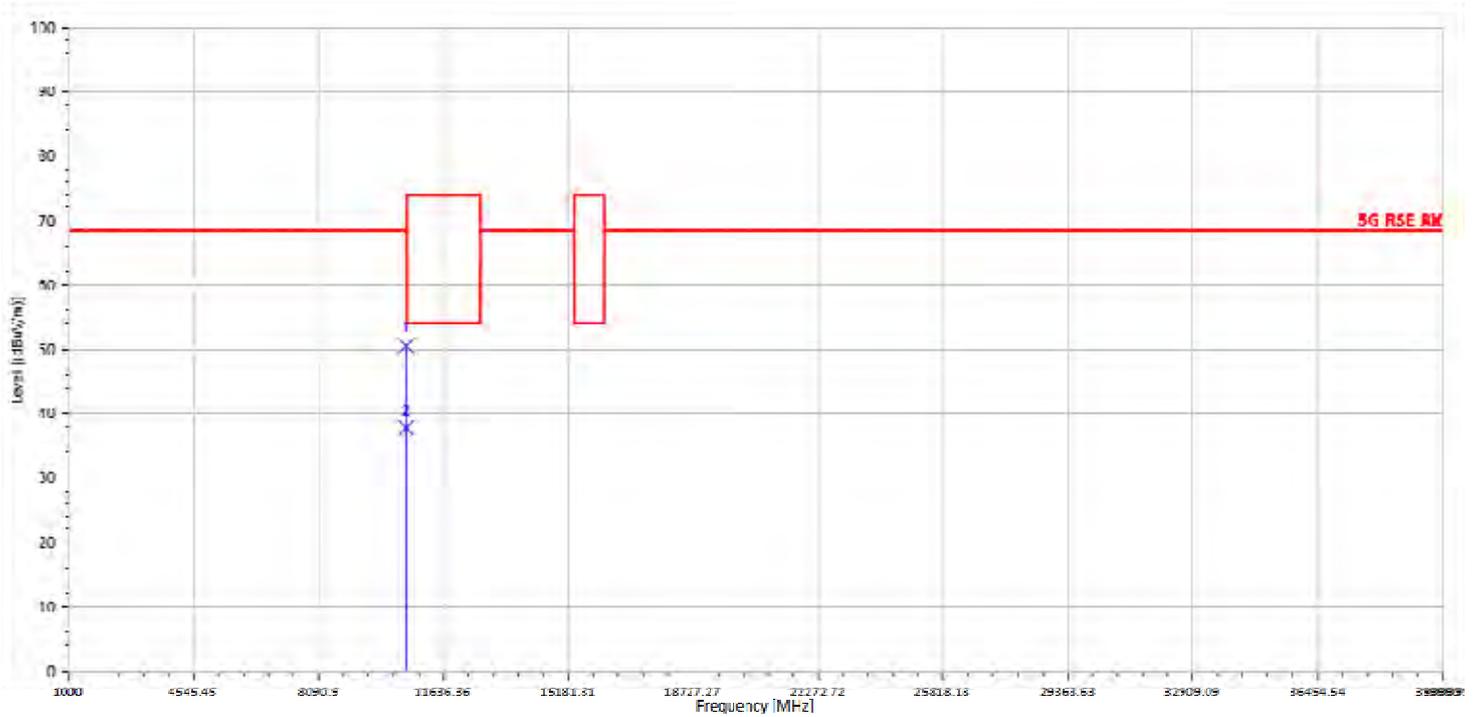
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### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Mode :	802.11ac80B2	Test Date :	2017/9/27
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



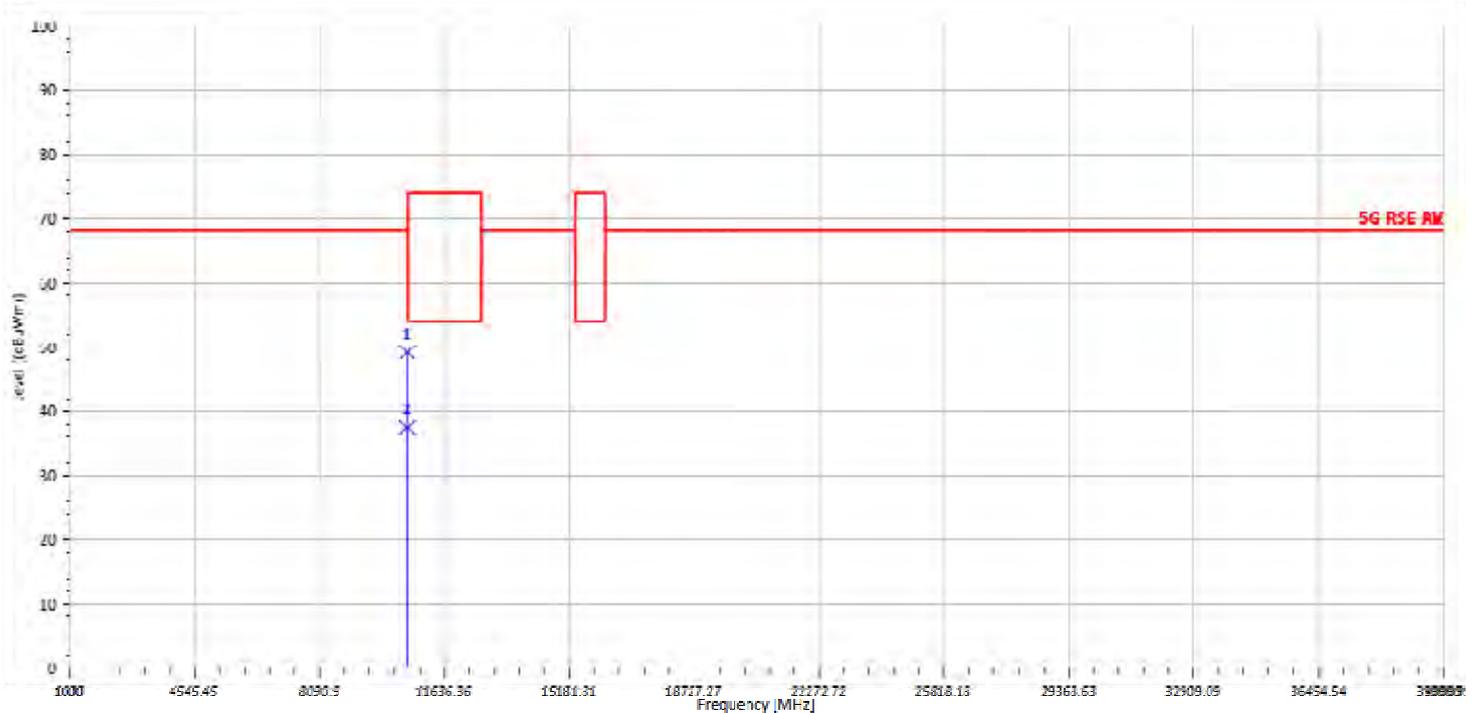
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10580.00	H	Peak	40.45	10.05	50.50	68.3	-17.80
10580.00	H	Average	27.73	10.05	37.78	68.3	-30.52

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Operation Mode :	802.11ac80B2	Test Date :	2017/9/27
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH HIGH	Test Engineer :	Enzo
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	39.23	10.05	49.29	68.3	-19.01
10580.00	H	Average	27.45	10.05	37.50	68.3	-30.80

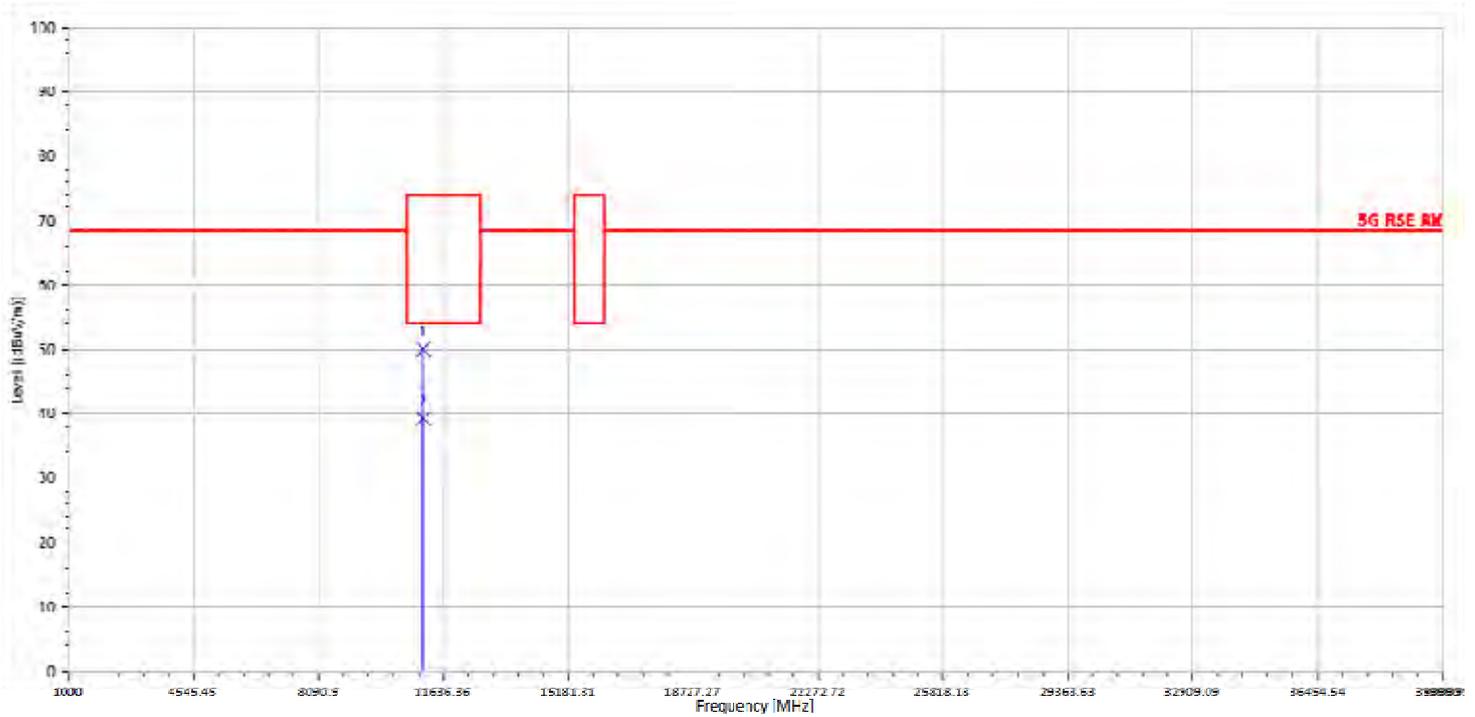
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### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Mode :	802.11ac80B3	Test Date :	2017/9/27
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



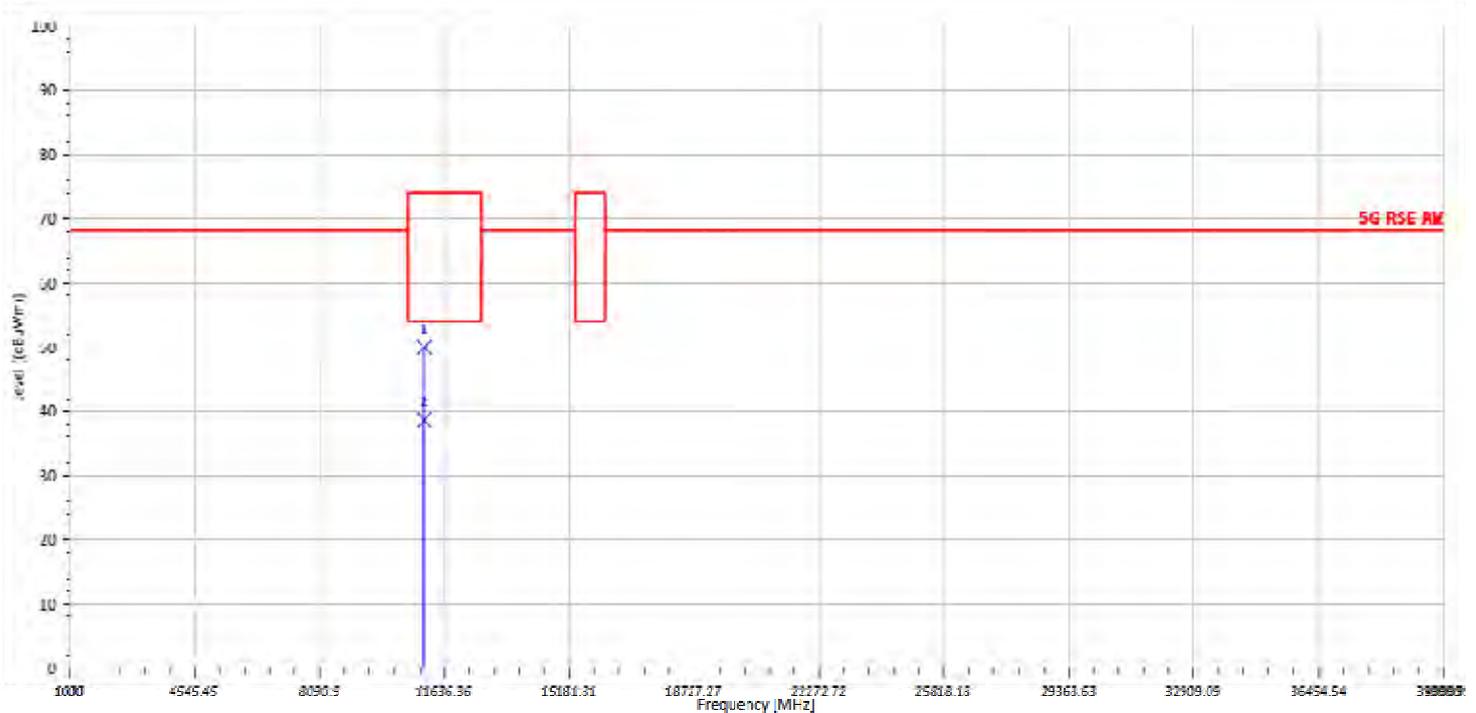
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11060.00	H	Peak	38.60	11.37	49.97	74	-24.03
11060.00	H	Average	27.85	11.37	39.22	54	-14.78

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Operation Mode : 802.11ac80B3      Test Date : 2017/9/27  
 Fundamental Frequency : 5530 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH LOW      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



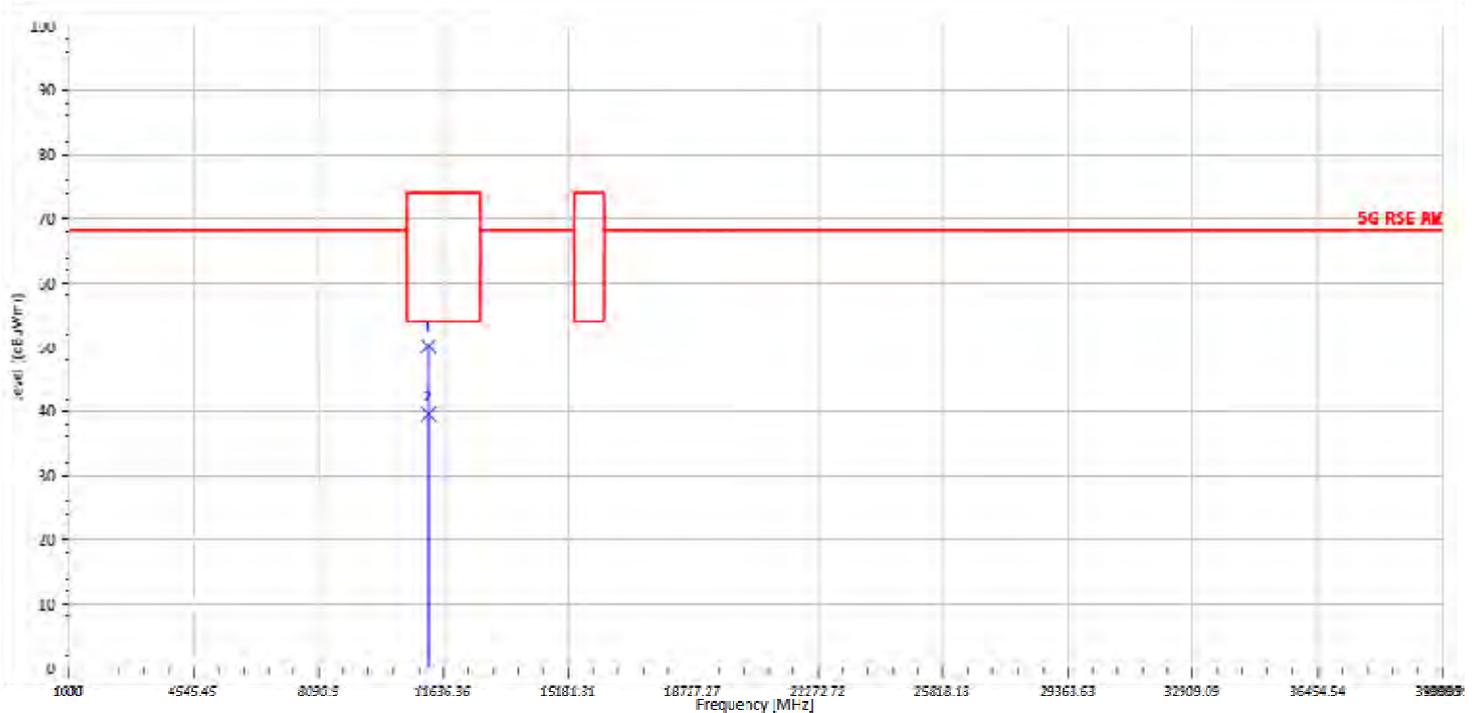
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11060.00	H	Peak	38.63	11.37	50.00	74	-24.00
11060.00	H	Average	27.35	11.37	38.72	54	-15.28

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Operation Mode :	802.11ac80B3	Test Date :	2017/9/27
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH MID	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



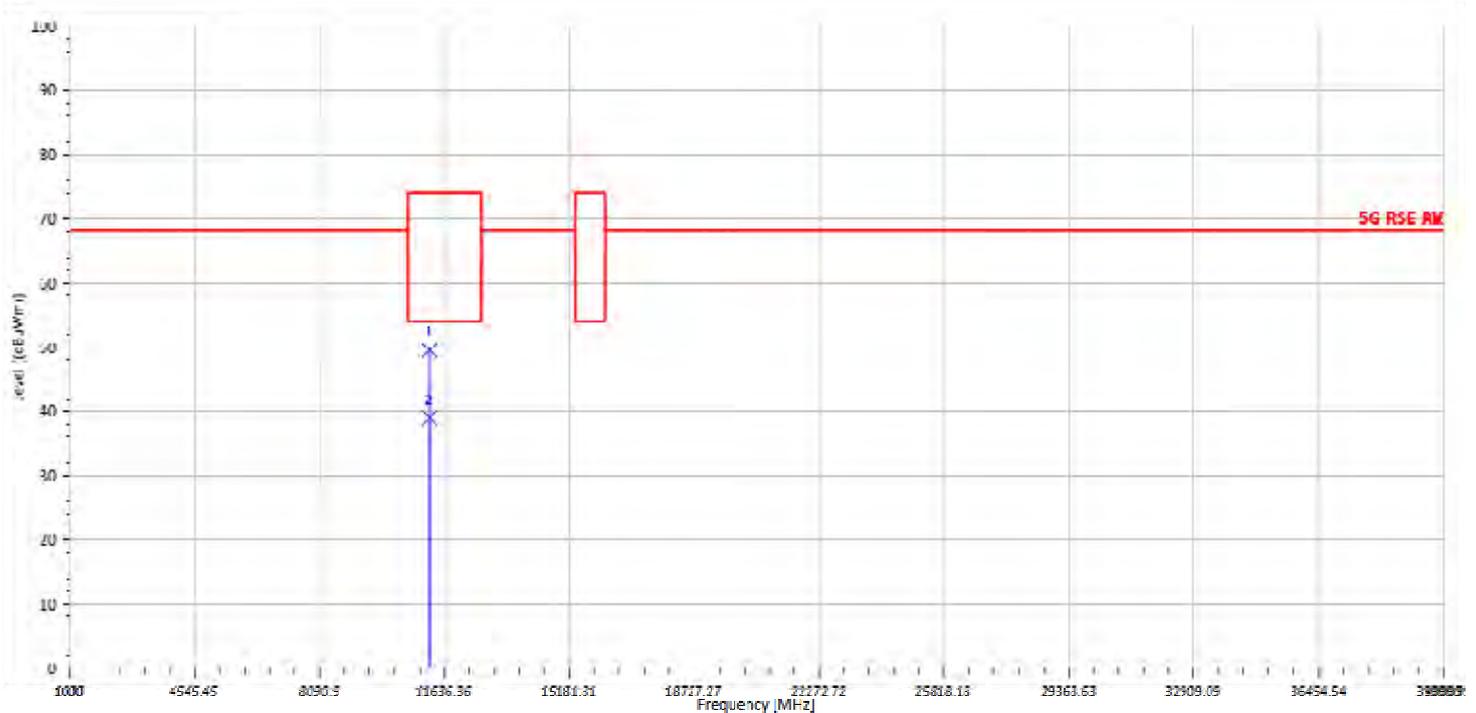
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBEµV	Factor dB	Actual FS dBEµV/m	Limit @3m dBEµV/m	Margin dB
11220.00	H	Peak	38.52	11.64	50.17	74	-23.83
11220.00	H	Average	27.95	11.64	39.60	54	-14.41

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Operation Mode :	802.11ac80B3	Test Date :	2017/9/27
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH MID	Test Engineer :	Enzo
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	37.91	11.64	49.55	74	-24.45
11220.00	H	Average	27.39	11.64	39.03	54	-14.97

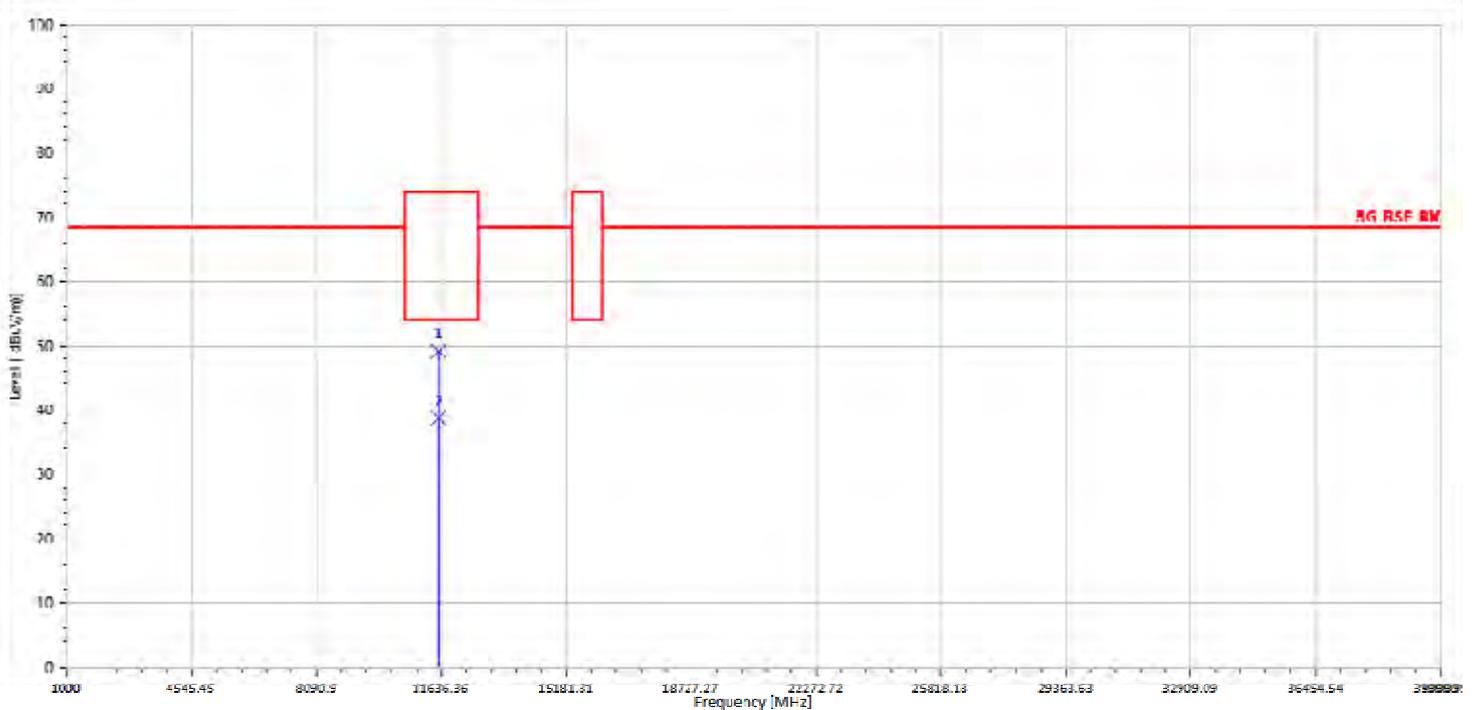
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### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Mode :	802.11ac80B4	Test Date :	2017/9/27
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



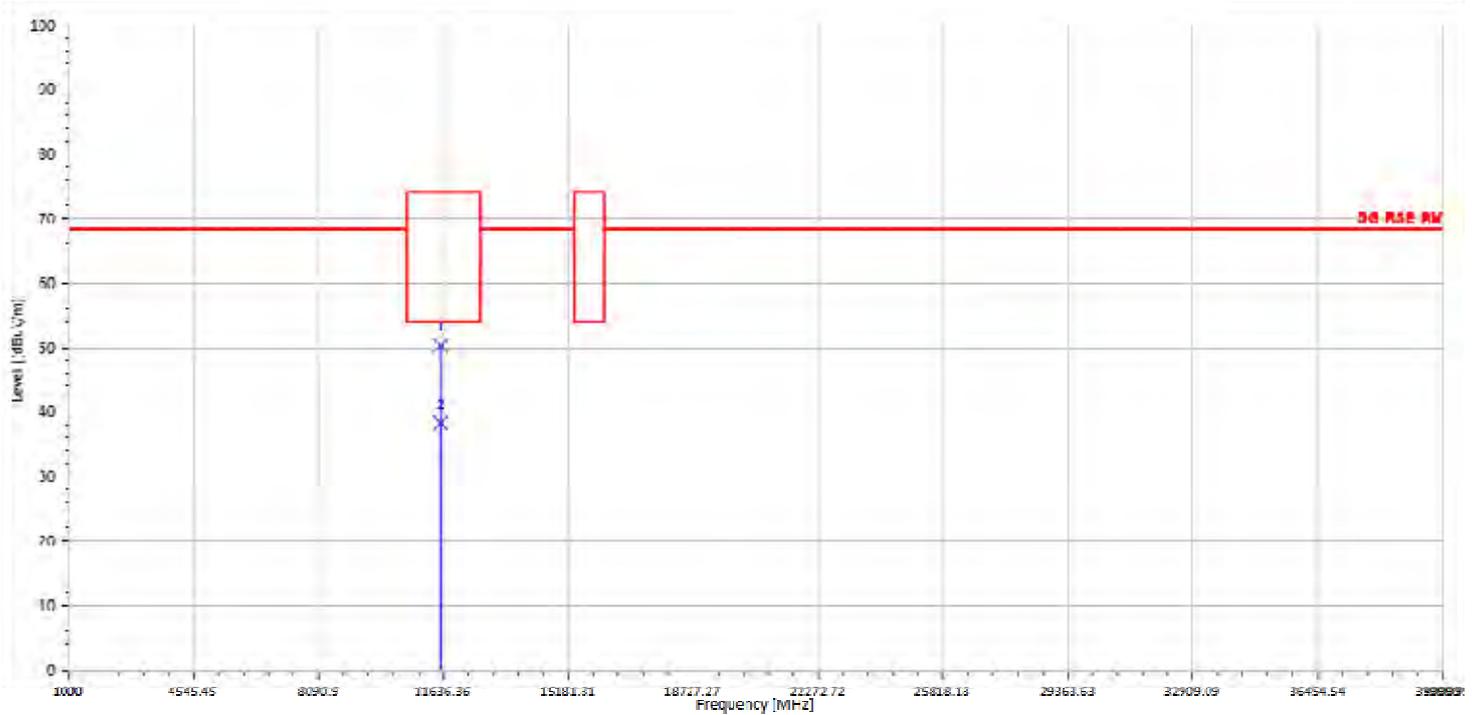
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11550.00	H	Peak	38.05	11.08	49.13	74	-24.87
11550.00	H	Average	27.62	11.08	38.70	54	-15.30

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Operation Mode :	802.11ac80B4	Test Date :	2017/9/27
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
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	39.23	11.08	50.32	74	-23.68
11550.00	H	Average	27.22	11.08	38.30	54	-15.70

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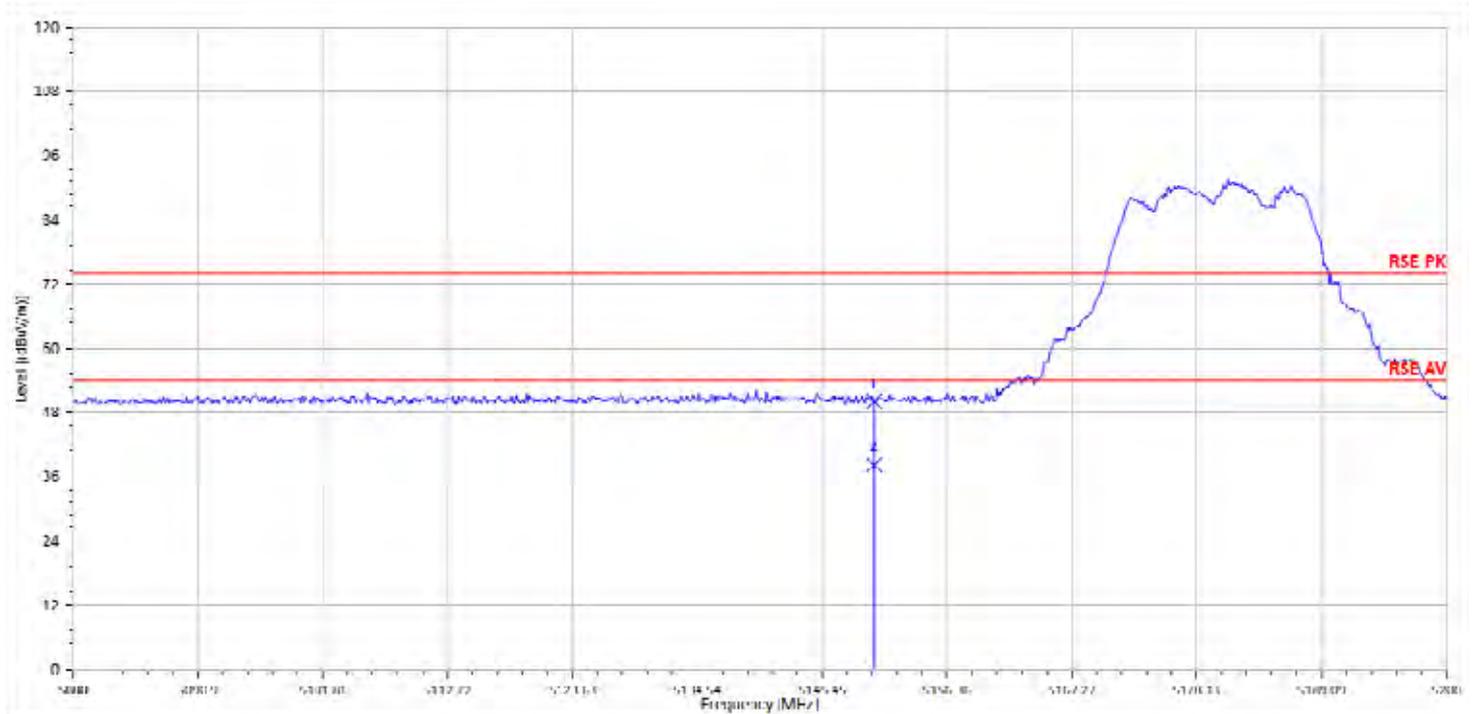
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### Band edge falling to restricted band

#### 802.11a mode

Operation Mode :	802.11aB1	Test Date :	2017/9/25
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



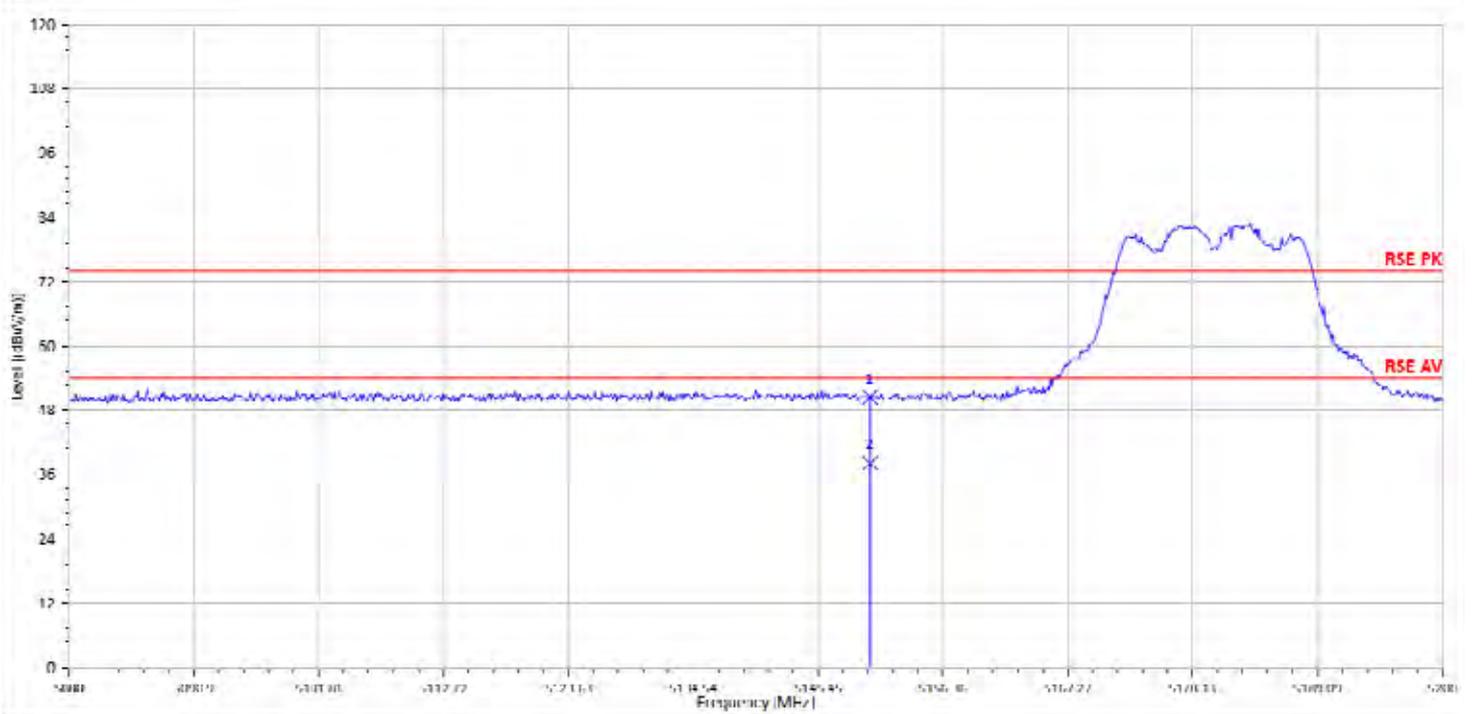
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	E	Peak	50.21	-0.17	50.04	74	-23.96
5150.00	E	Average	38.33	-0.17	38.16	54	-15.84

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Operation Mode :	802.11aB1	Test Date :	2017/9/25
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



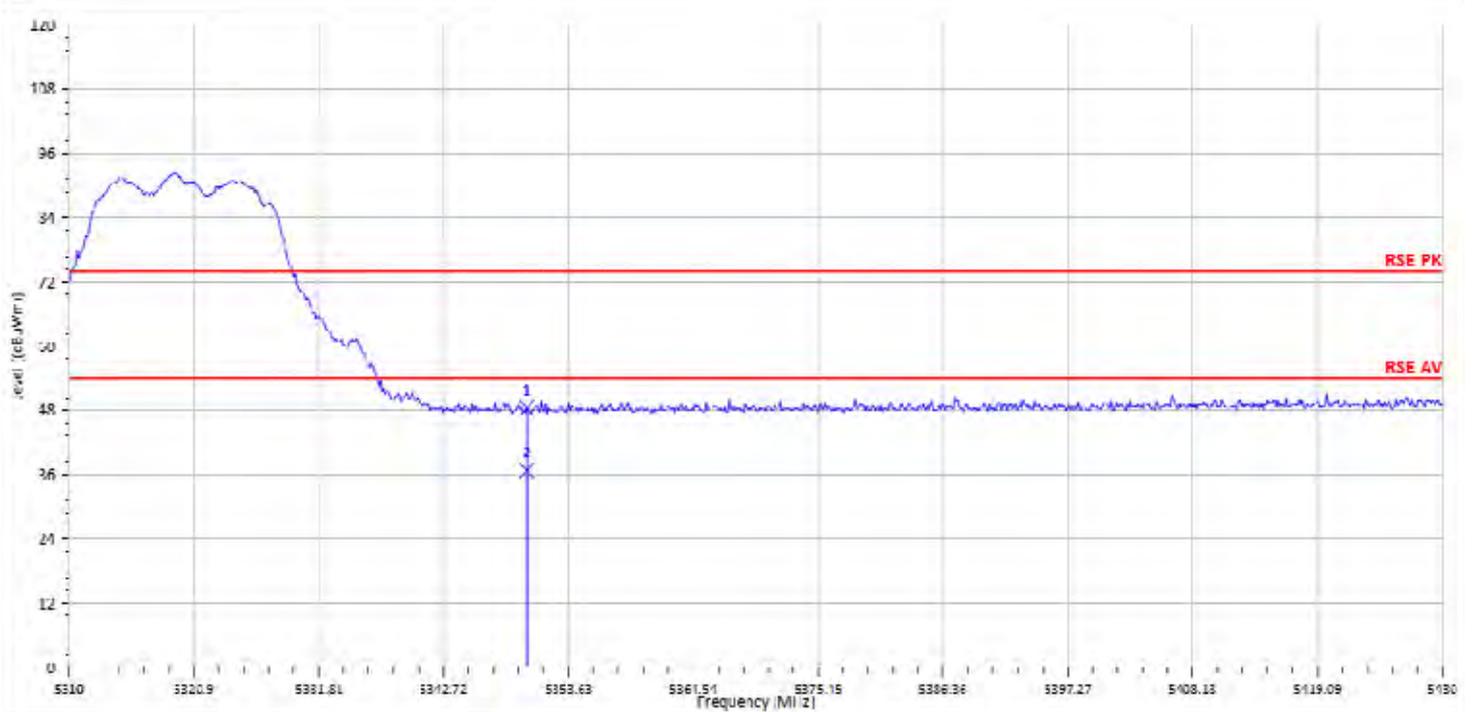
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	E	Peak	50.58	-0.17	50.41	74	-23.59
5150.00	E	Average	38.26	-0.17	38.09	54	-15.91

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Operation Mode :	802.11aB2	Test Date :	2017/9/25
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



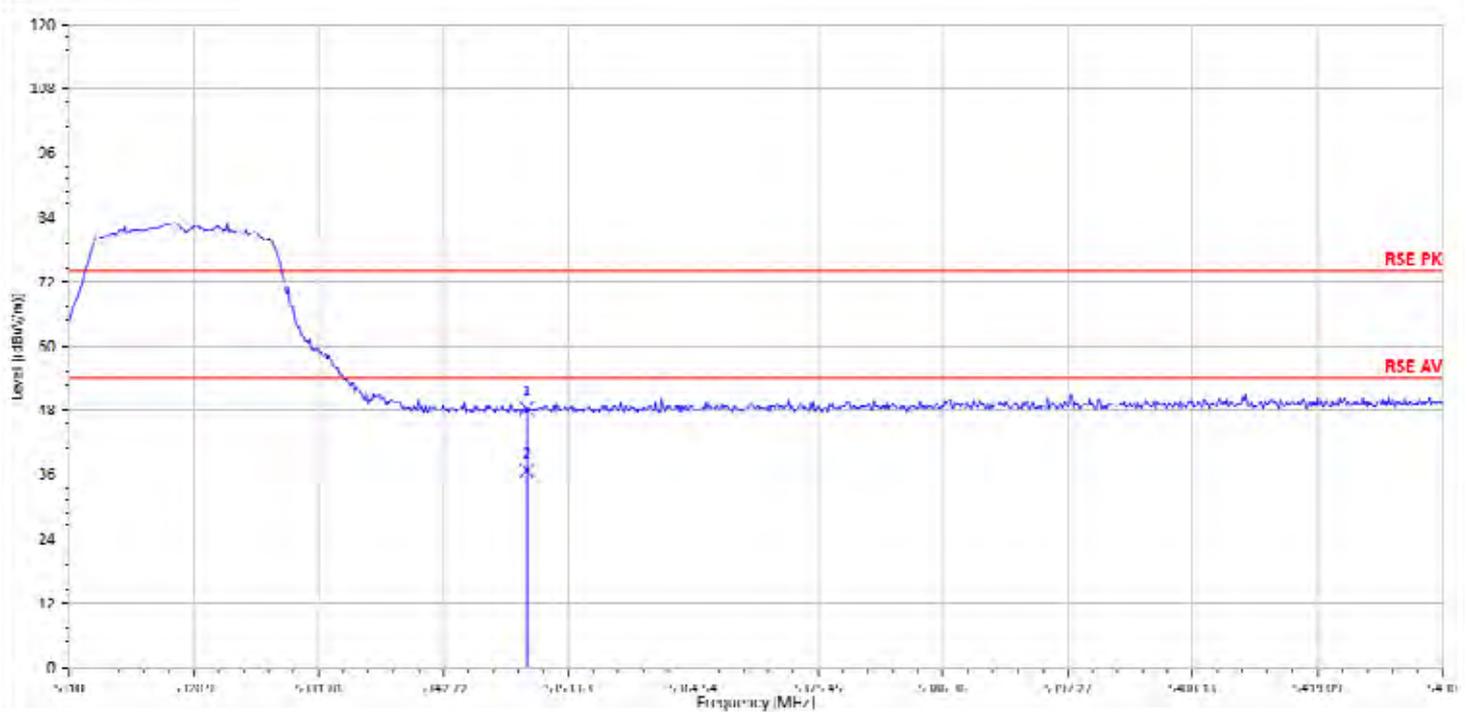
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	48.54	-0.15	48.39	74	-25.61
5350.00	E	Average	36.92	-0.15	36.76	54	-17.24

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Operation Mode :	802.11aB2	Test Date :	2017/9/25
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



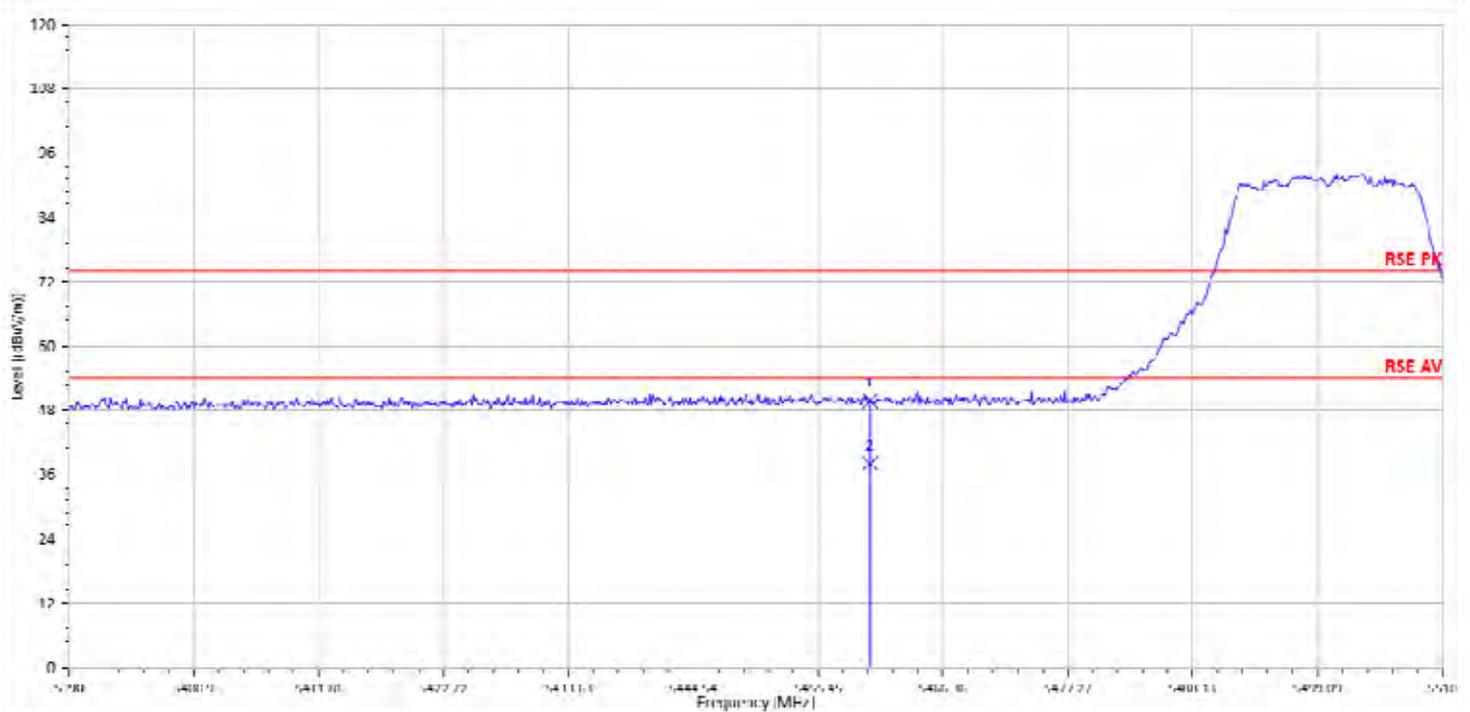
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	48.44	-0.15	48.29	74	-25.71
5350.00	E	Average	36.85	-0.15	36.69	54	-17.31

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Operation Mode :	802.11aB3	Test Date :	2017/9/25
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



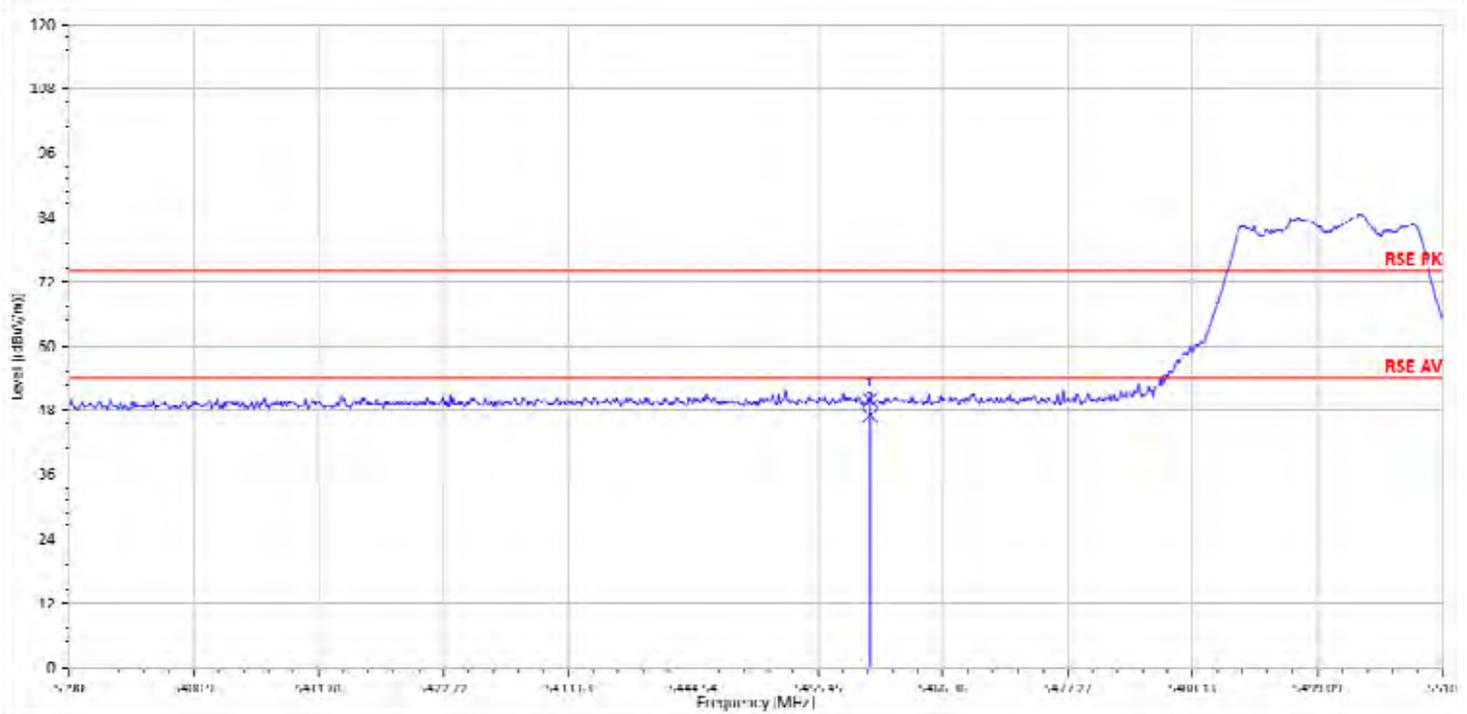
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	E	Peak	49.70	0.06	49.75	74	-24.25
5460.00	E	Average	38.00	0.06	38.06	54	-15.94

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Operation Mode :	802.11aB3	Test Date :	2017/9/25
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



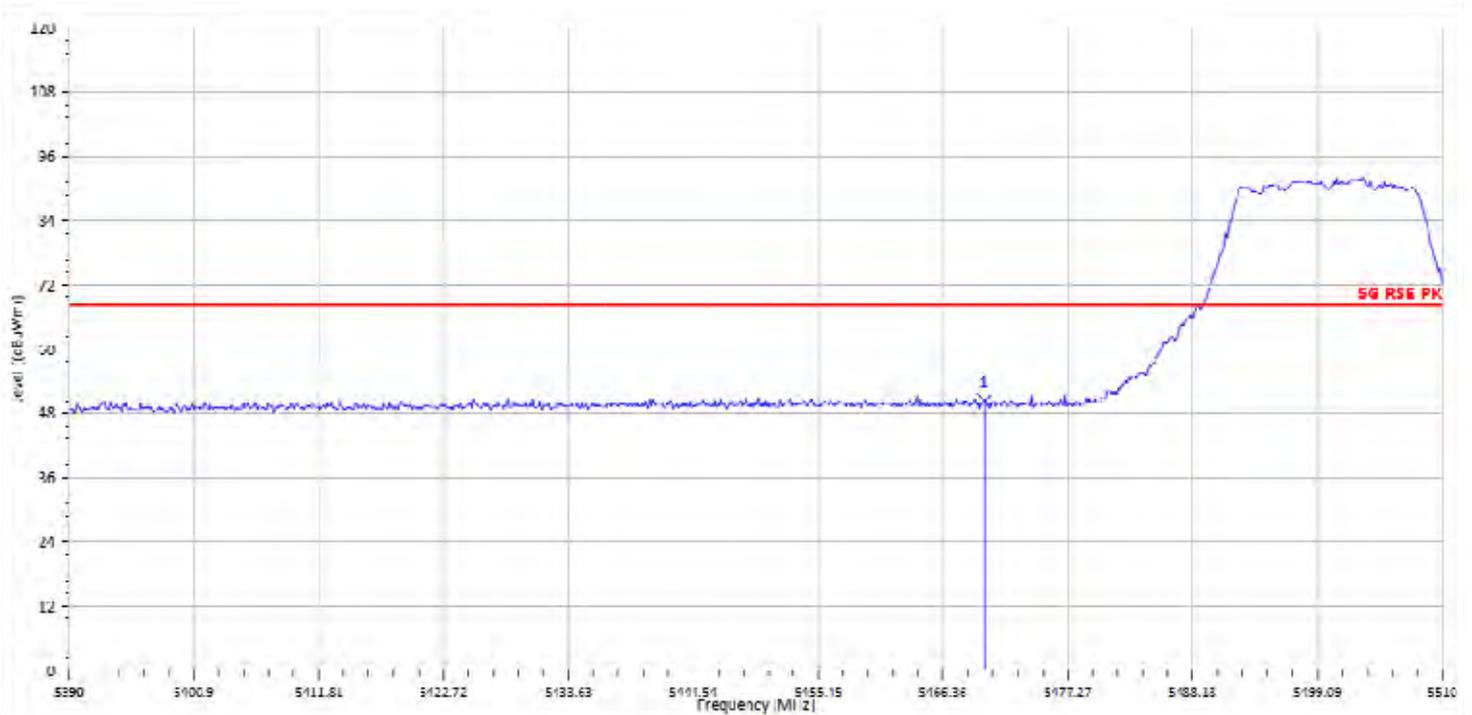
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	E	Peak	49.82	0.06	49.88	74	-24.12
5460.00	E	Average	46.95	0.06	47.01	54	-6.99

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Operation Mode :	802.11aB3	Test Date :	2017/9/25
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



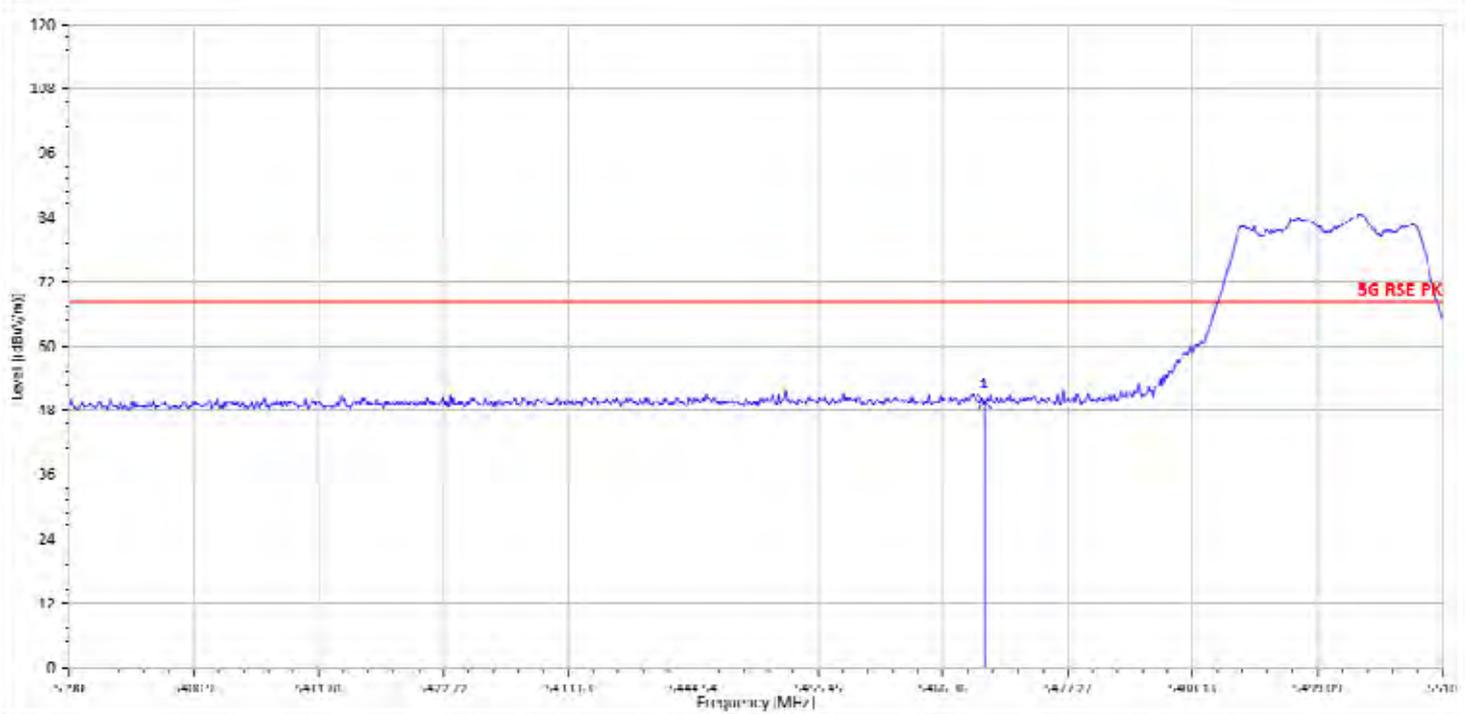
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5470.00	E	Peak	50.31	0.08	50.39	68.3	-17.91

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Operation Mode :	802.11aB3	Test Date :	2017/9/25
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



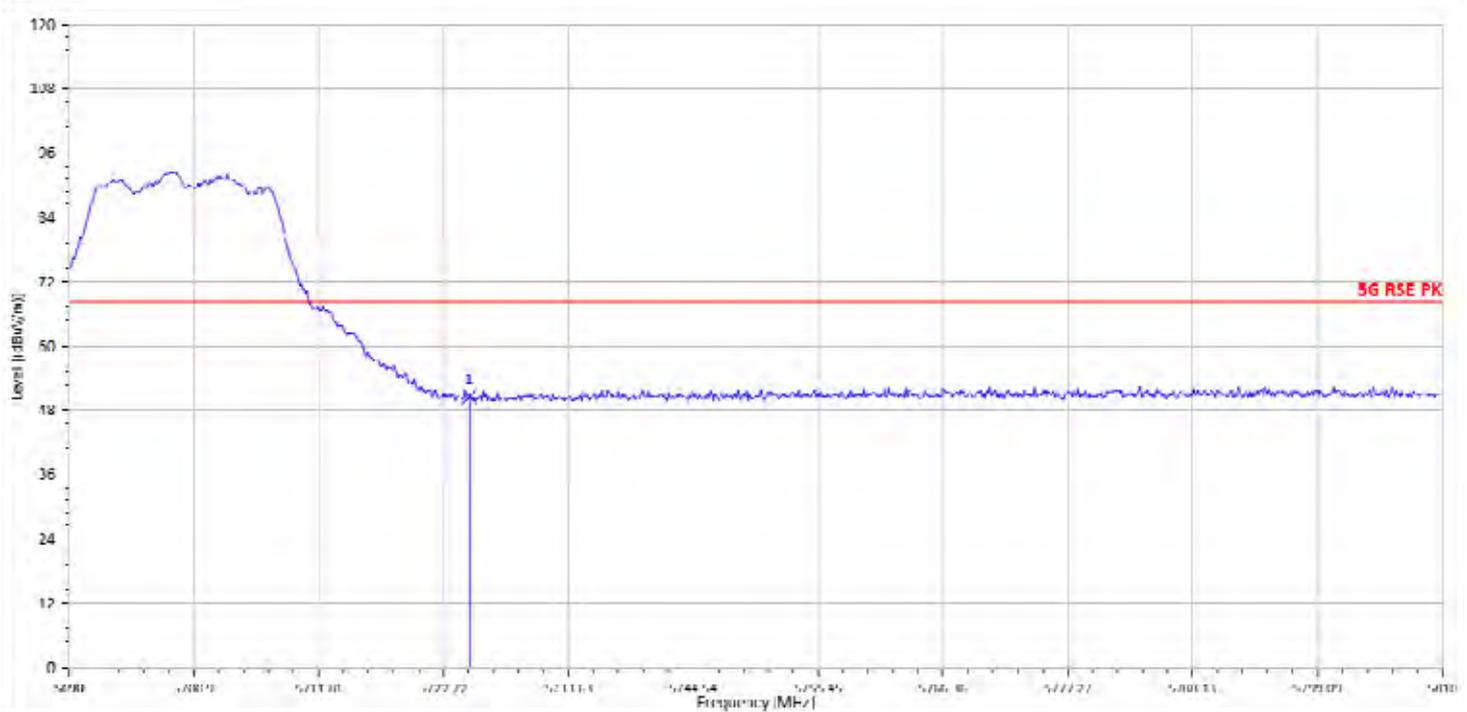
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5470.00	E	Peak	49.47	0.08	49.55	68.3	-18.75

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Operation Mode :	802.11aB3	Test Date :	2017/9/25
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



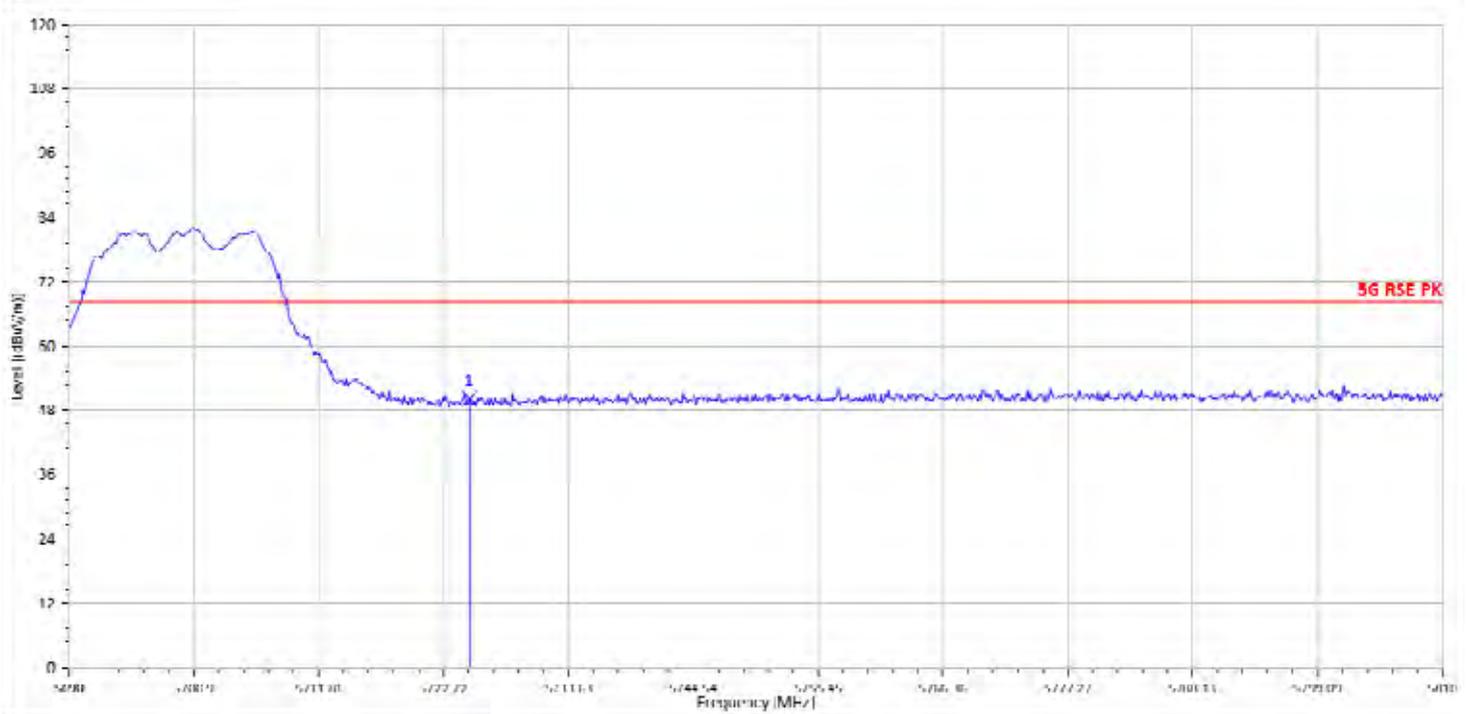
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	E	Peak	49.87	0.69	50.55	68.3	-17.75

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Operation Mode :	802.11aB3	Test Date :	2017/9/25
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



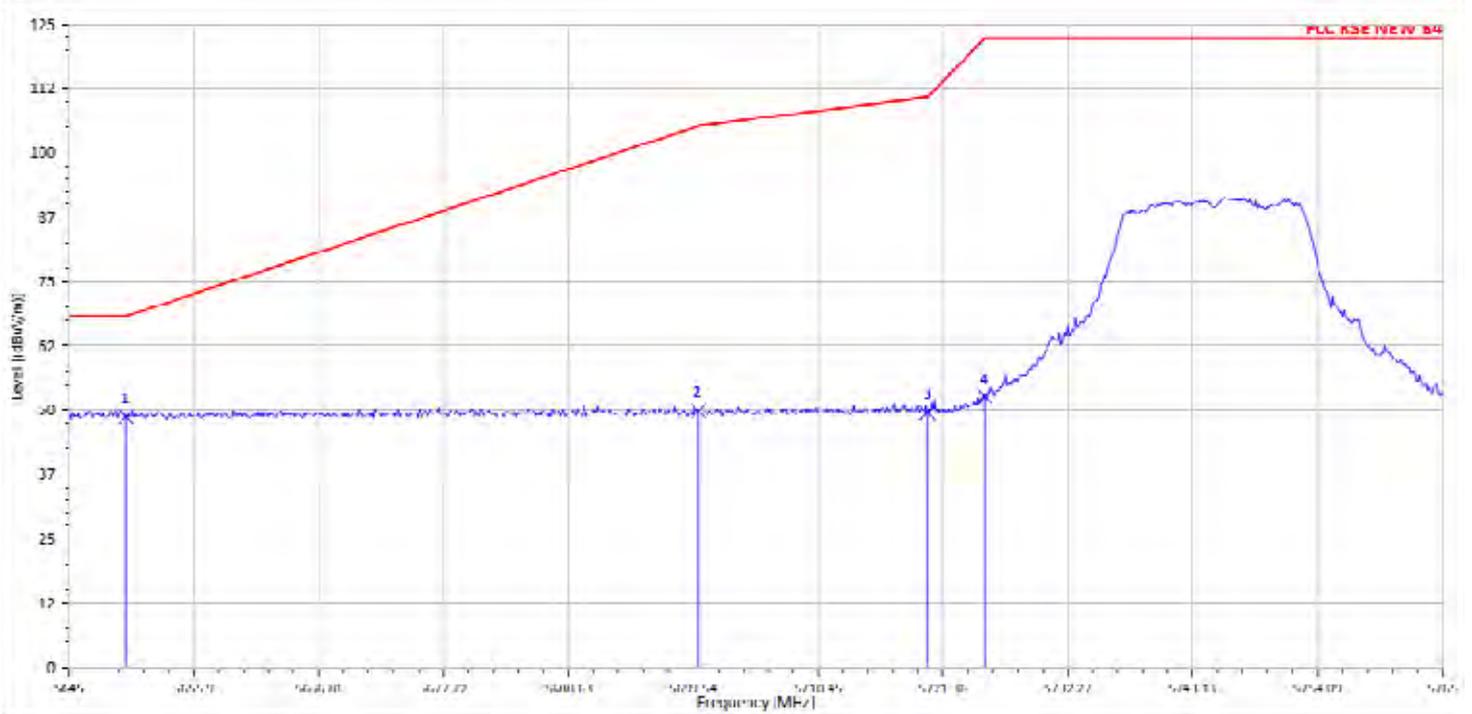
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	E	Peak	49.45	0.69	50.13	68.3	-18.17

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Operation Mode :	802.11aB4	Test Date :	2017/9/25
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



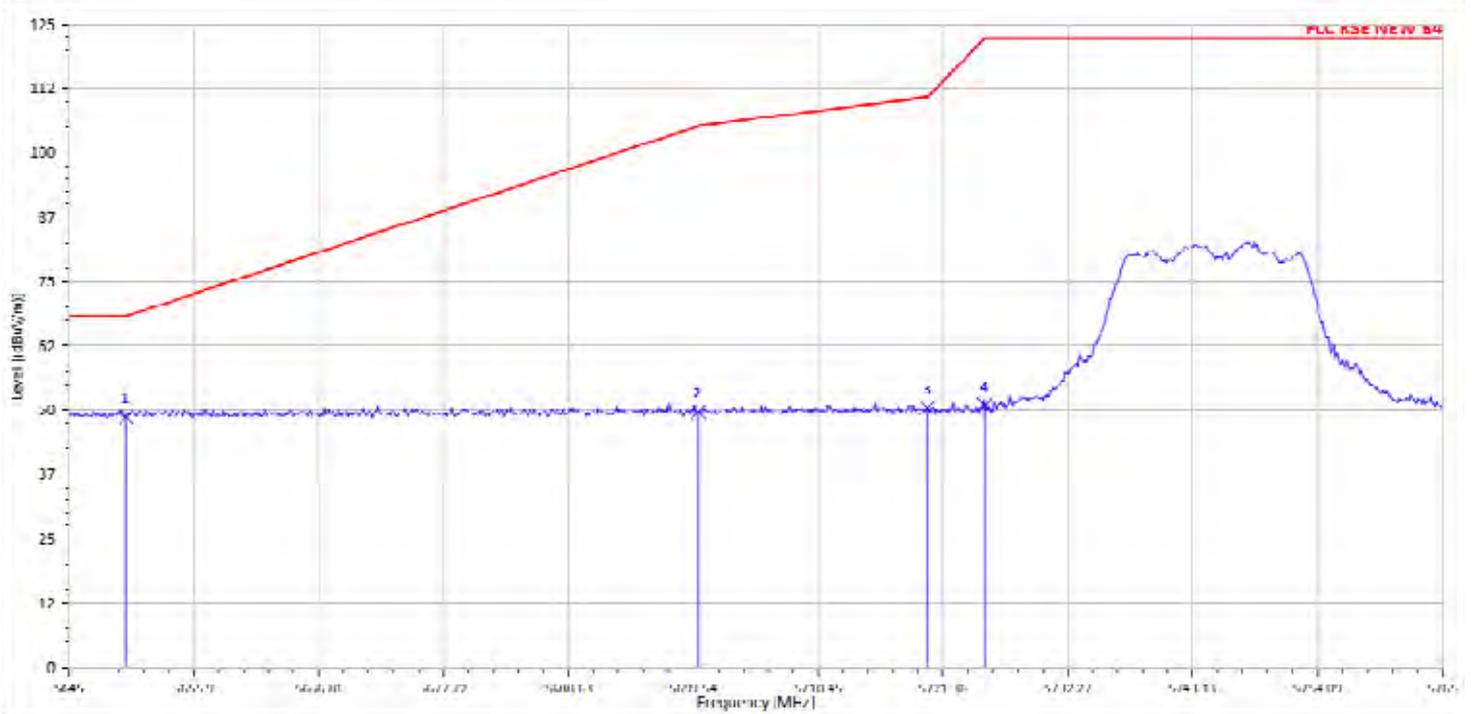
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	S	Peak	48.07	0.63	48.70	68.23	-19.53
5700.00	S	Peak	49.29	0.56	49.85	105.23	-55.38
5720.00	S	Peak	48.83	0.66	49.49	110.83	-61.34
5725.00	E	Peak	51.94	0.69	52.63	122.23	-69.60

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Operation Mode :	802.11aB4	Test Date :	2017/9/25
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



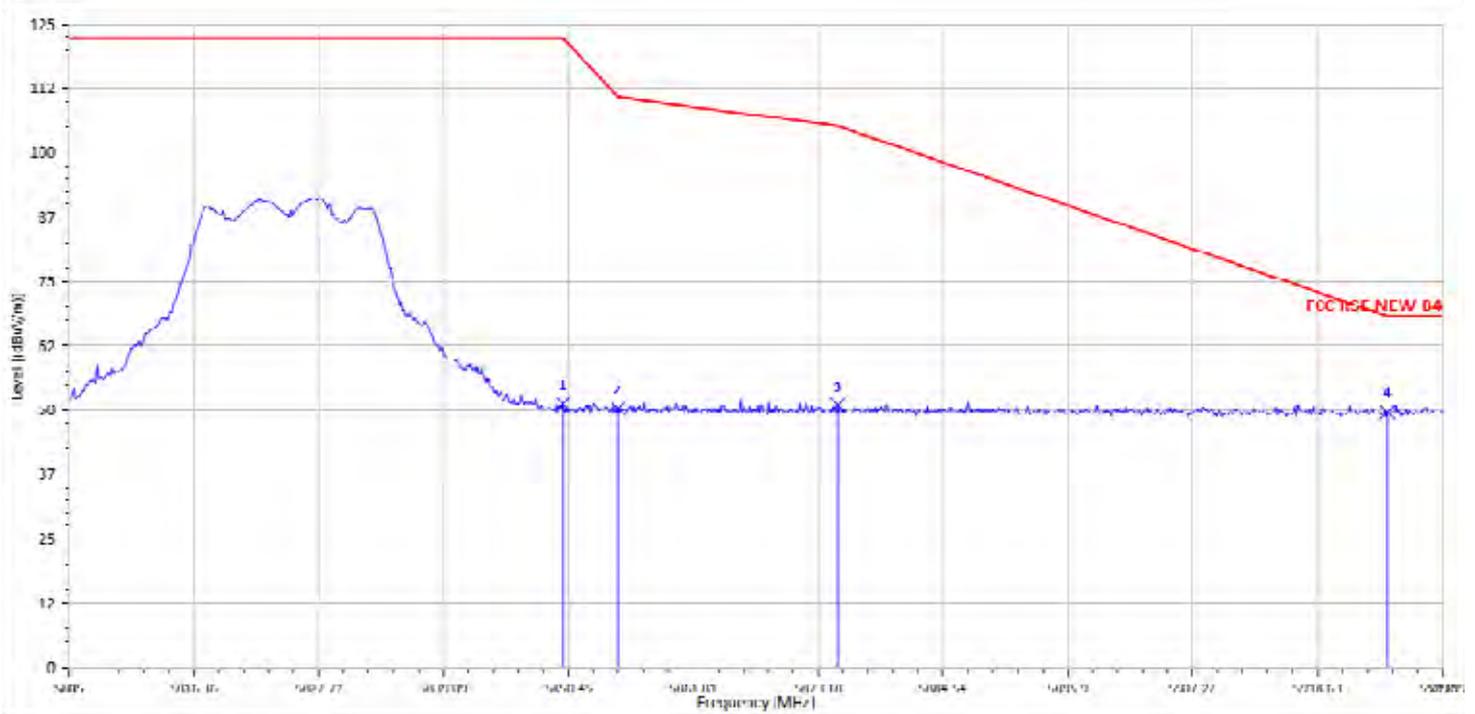
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	S	Peak	48.03	0.63	48.65	68.23	-19.58
5700.00	S	Peak	49.08	0.56	49.64	105.23	-55.59
5720.00	S	Peak	49.78	0.66	50.44	110.83	-60.39
5725.00	E	Peak	50.26	0.69	50.95	122.23	-71.28

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Operation Mode :	802.11aB4	Test Date :	2017/9/25
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



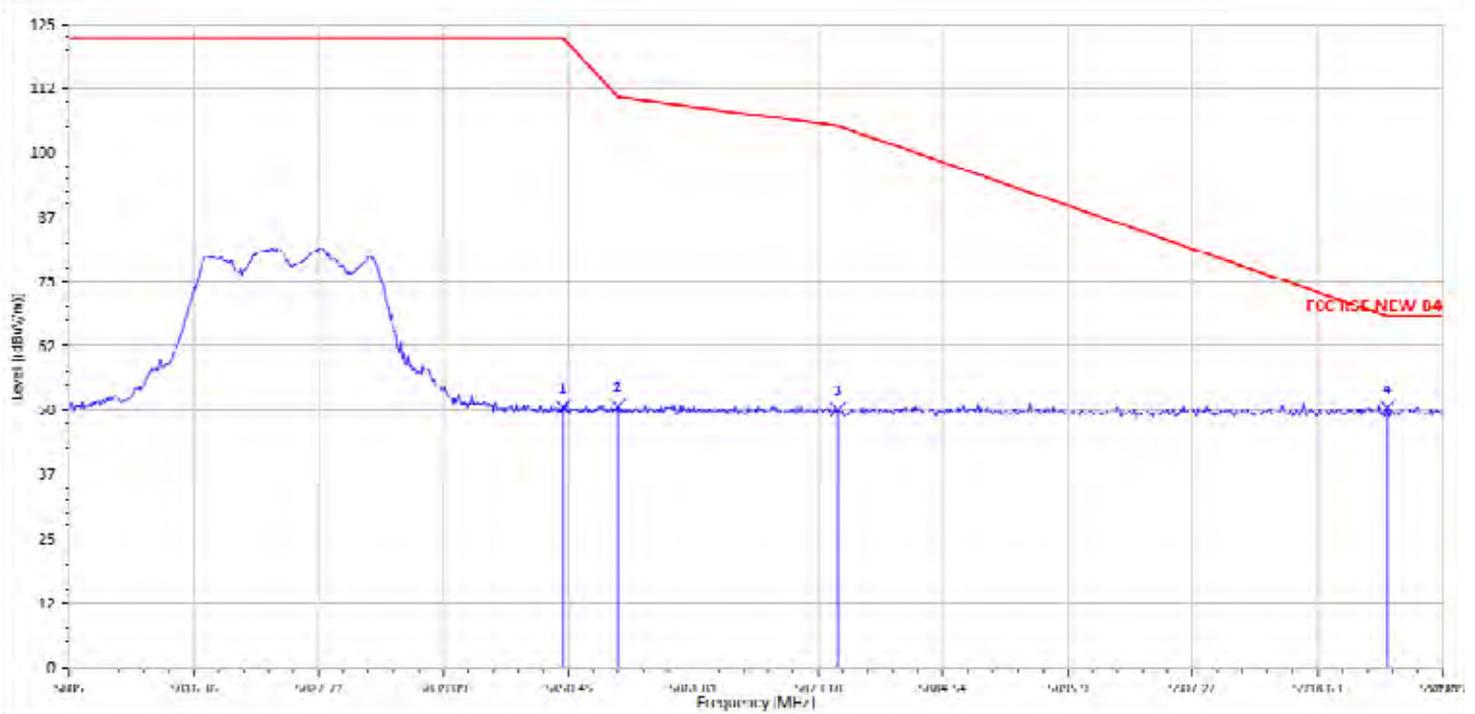
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	50.25	1.01	51.26	122.23	-70.97
5855.00	S	Peak	49.36	1.01	50.36	110.83	-60.47
5875.00	S	Peak	50.03	0.99	51.02	105.23	-54.21
5925.00	S	Peak	48.58	1.04	49.62	68.23	-18.61

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Operation Mode :	802.11aB4	Test Date :	2017/9/25
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
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	49.56	1.01	50.57	122.23	-71.66
5855.00	S	Peak	49.79	1.01	50.79	110.83	-60.04
5875.00	S	Peak	49.14	0.99	50.13	105.23	-55.10
5925.00	S	Peak	49.49	1.04	50.52	68.23	-17.71

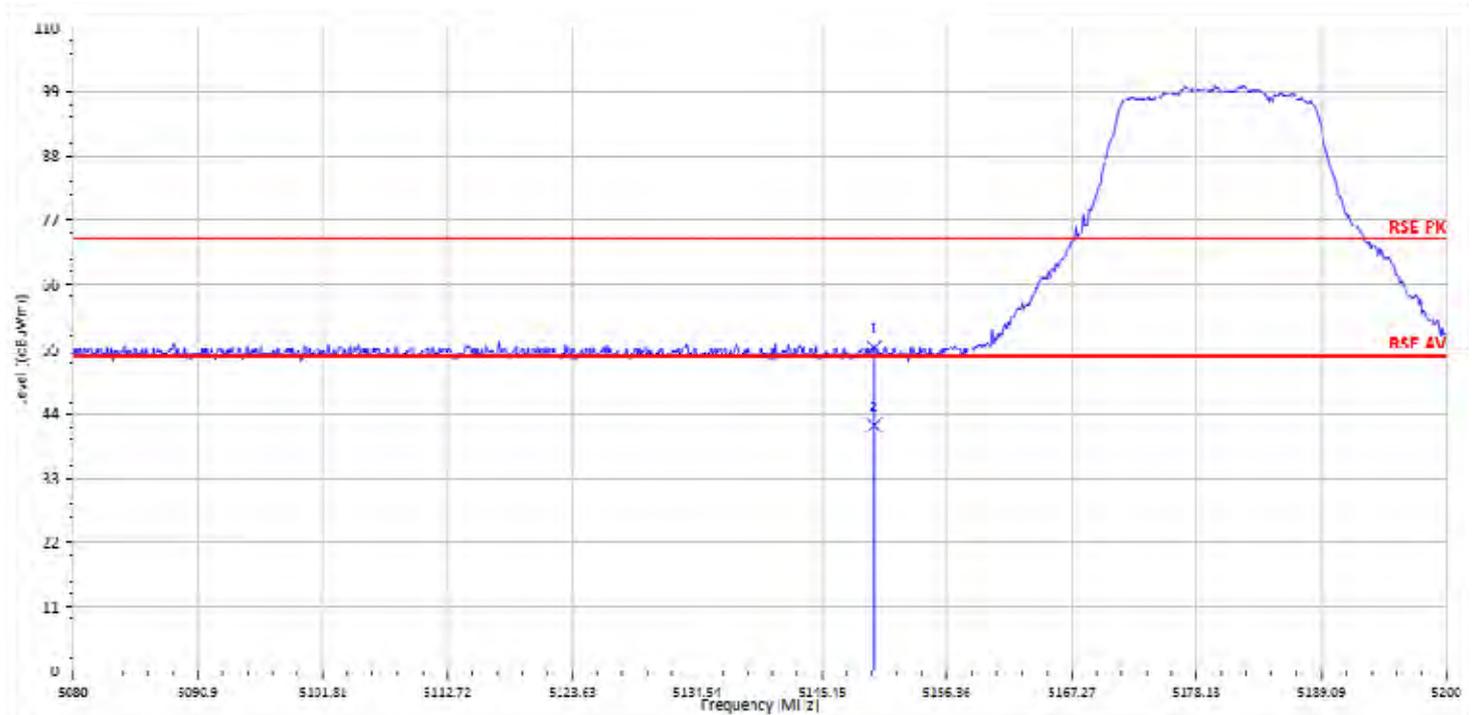
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### 802.11n20 HT mode

Operation Mode :	802.11n20B1	Test Date :	2017/9/25
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



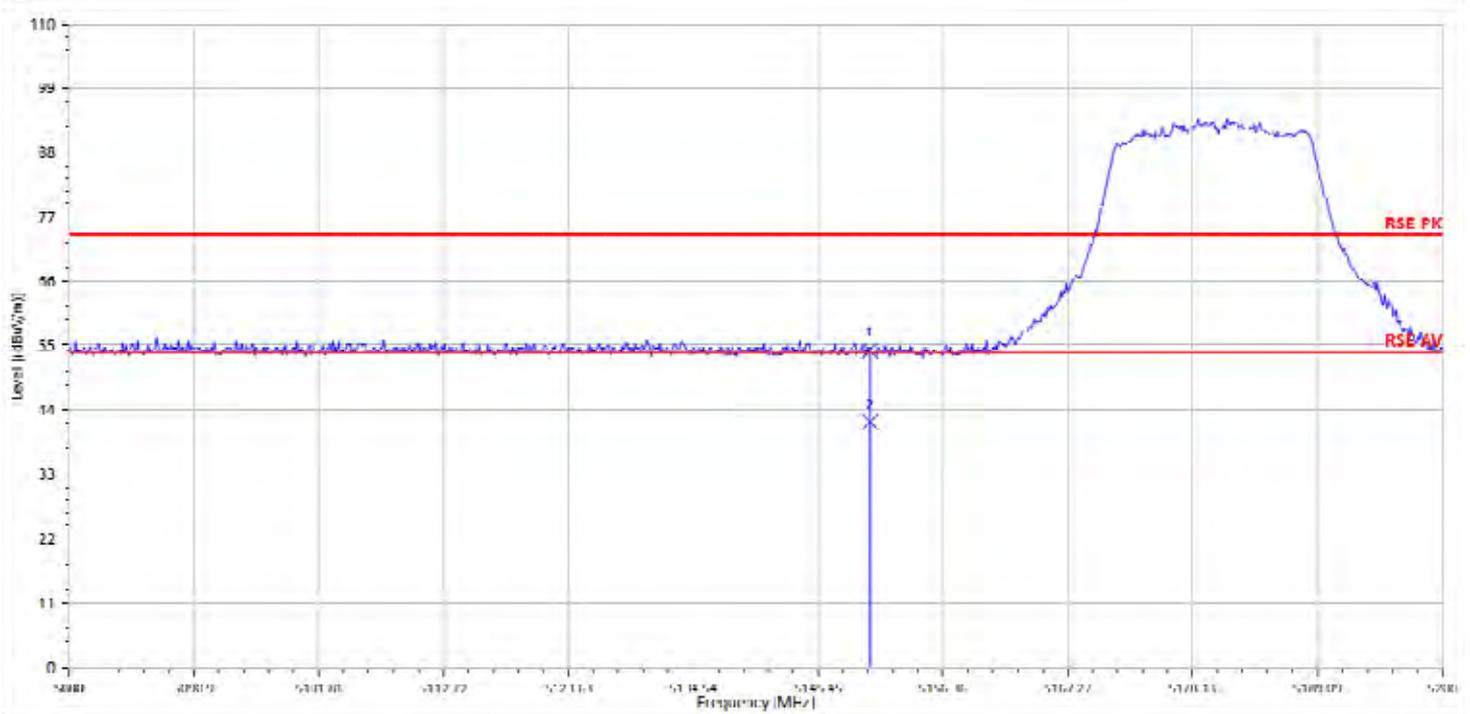
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	E	Peak	55.31	-0.17	55.14	74	-18.86
5150.00	E	Average	42.37	-0.17	42.20	54	-11.81

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Operation Mode :	802.11n20B1	Test Date :	2017/9/25
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



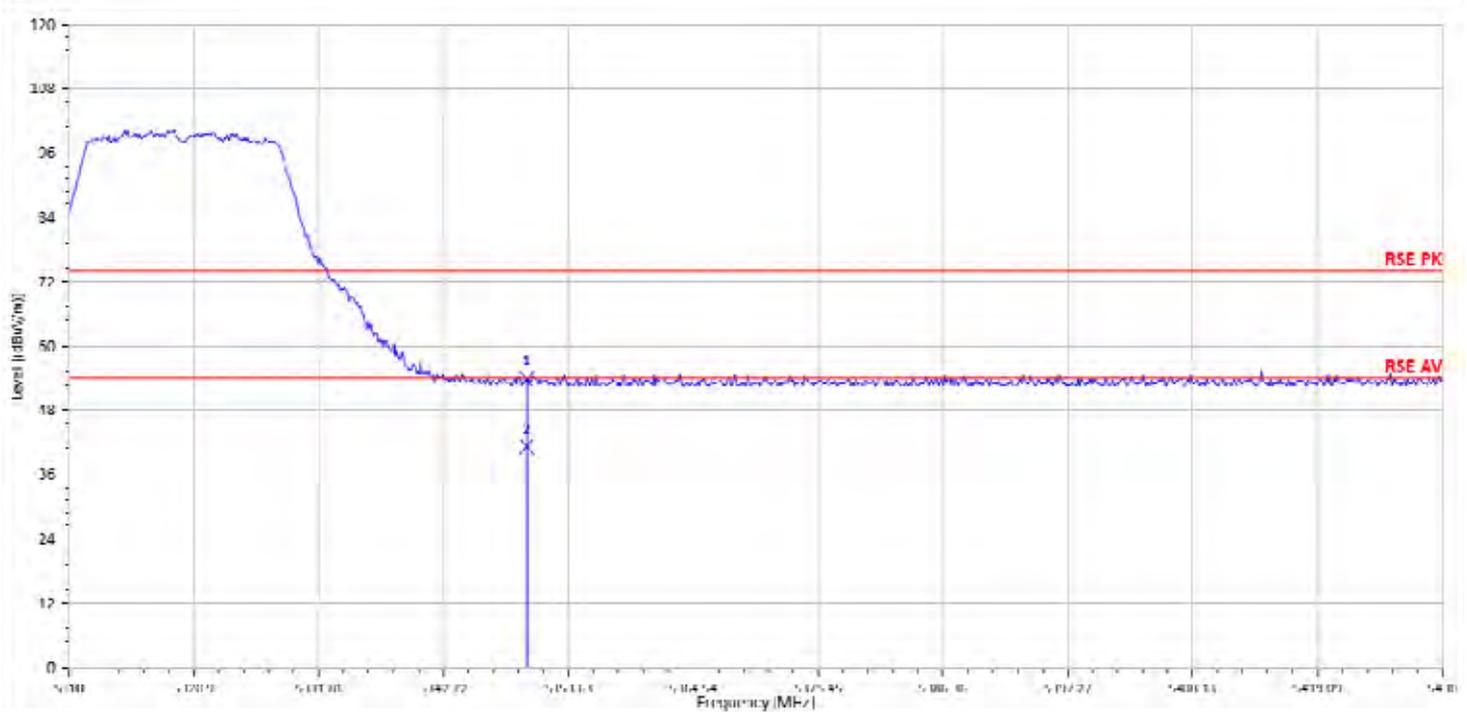
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	E	Peak	54.40	-0.17	54.23	74	-19.77
5150.00	E	Average	42.14	-0.17	41.97	54	-12.03

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Operation Mode :	802.11n20B2	Test Date :	2017/9/25
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



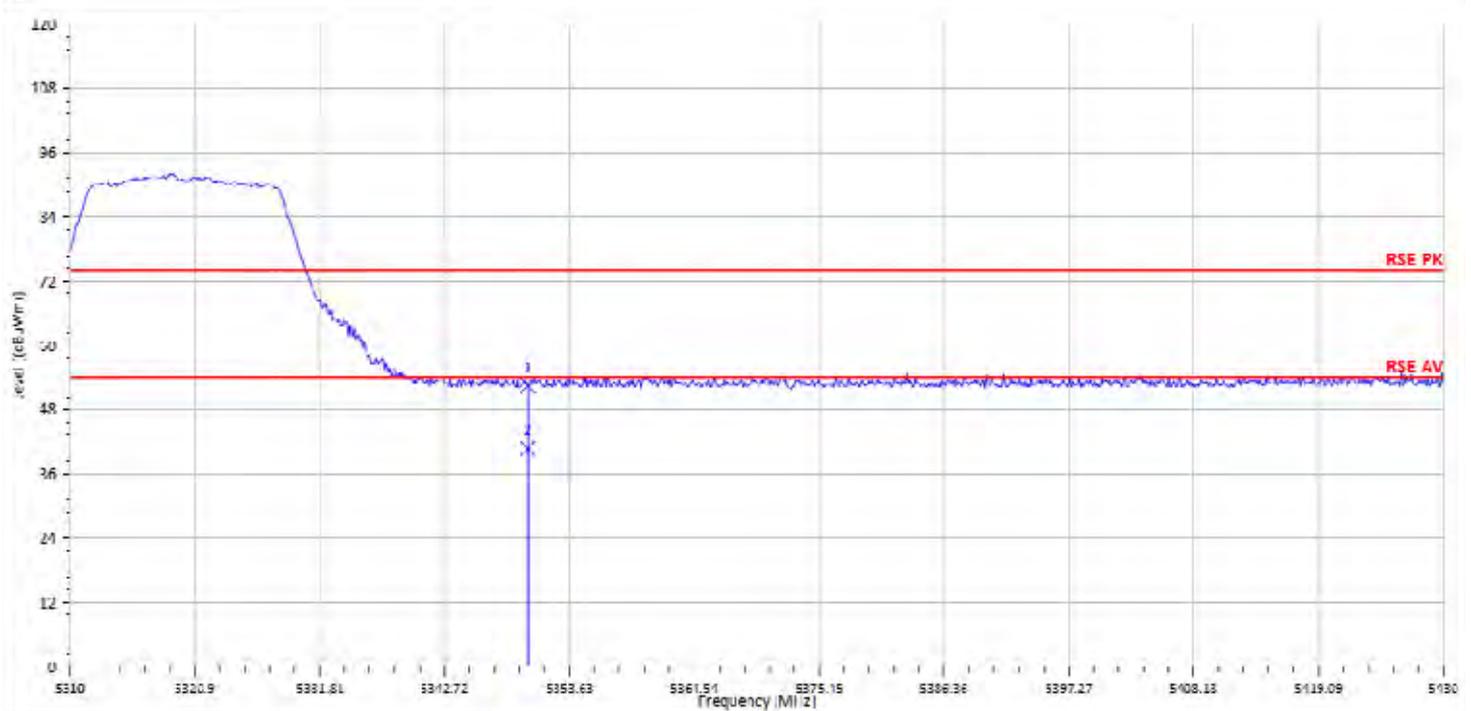
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	53.97	-0.15	53.81	74	-20.19
5350.00	E	Average	41.30	-0.15	41.14	54	-12.86

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Operation Mode :	802.11n20B2	Test Date :	2017/9/25
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



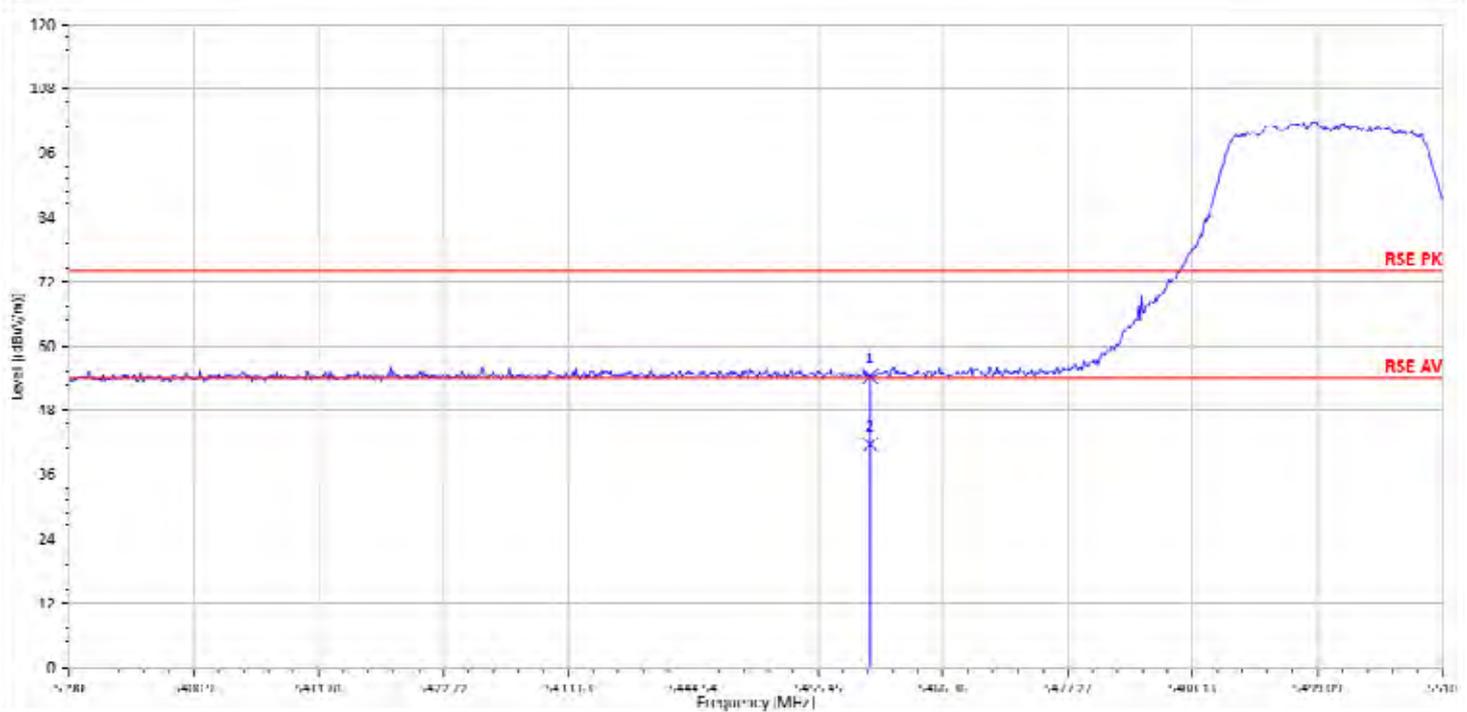
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	52.70	-0.15	52.54	74	-21.46
5350.00	E	Average	40.91	-0.15	40.76	54	-13.24

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Operation Mode :	802.11n20B3	Test Date :	2017/9/25
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



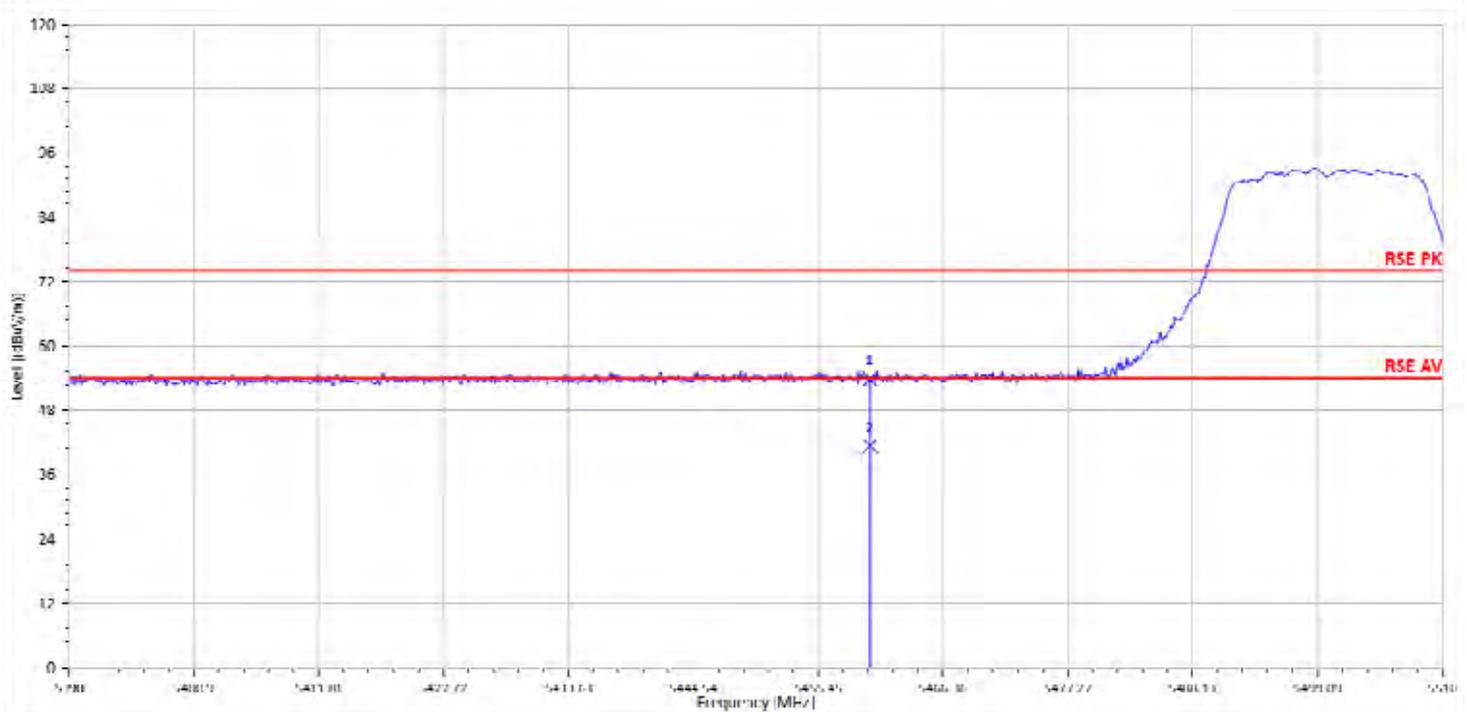
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	E	Peak	54.26	0.06	54.32	74	-19.68
5460.00	E	Average	41.49	0.06	41.54	54	-12.46

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Operation Mode :	802.11n20B3	Test Date :	2017/9/25
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



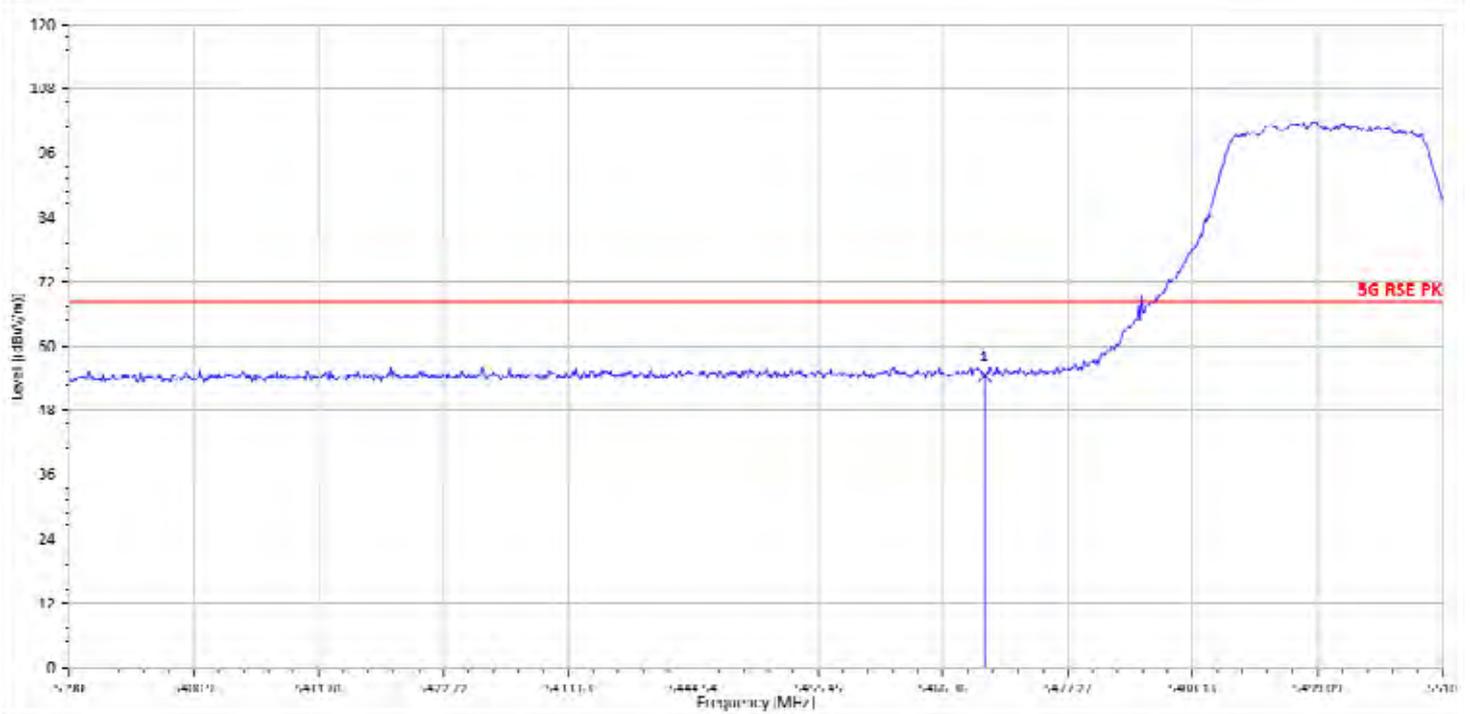
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	E	Peak	53.78	0.06	53.83	74	-20.17
5460.00	E	Average	41.26	0.06	41.31	54	-12.69

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Operation Mode :	802.11n20B3	Test Date :	2017/9/25
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



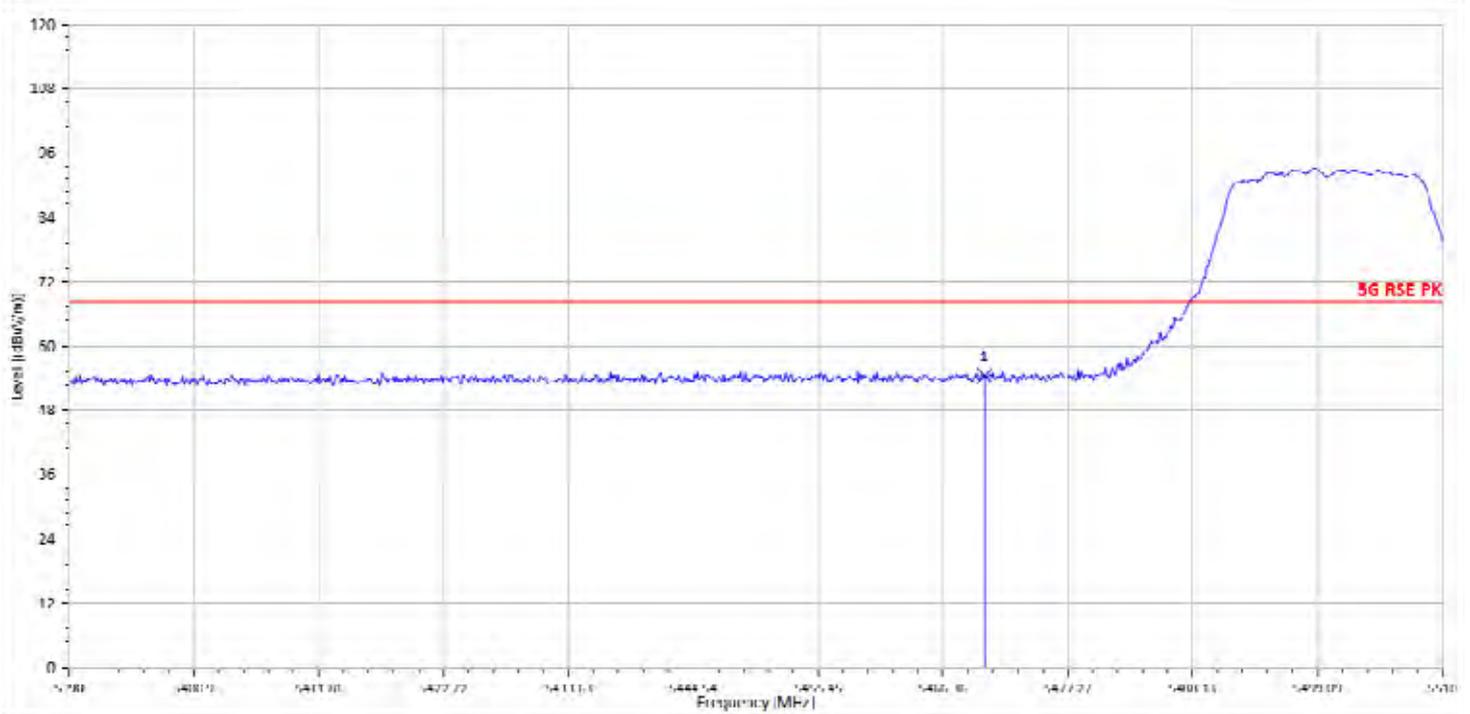
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5470.00	E	Peak	54.44	0.08	54.52	68.3	-13.78

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Operation Mode :	802.11n20B3	Test Date :	2017/9/25
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



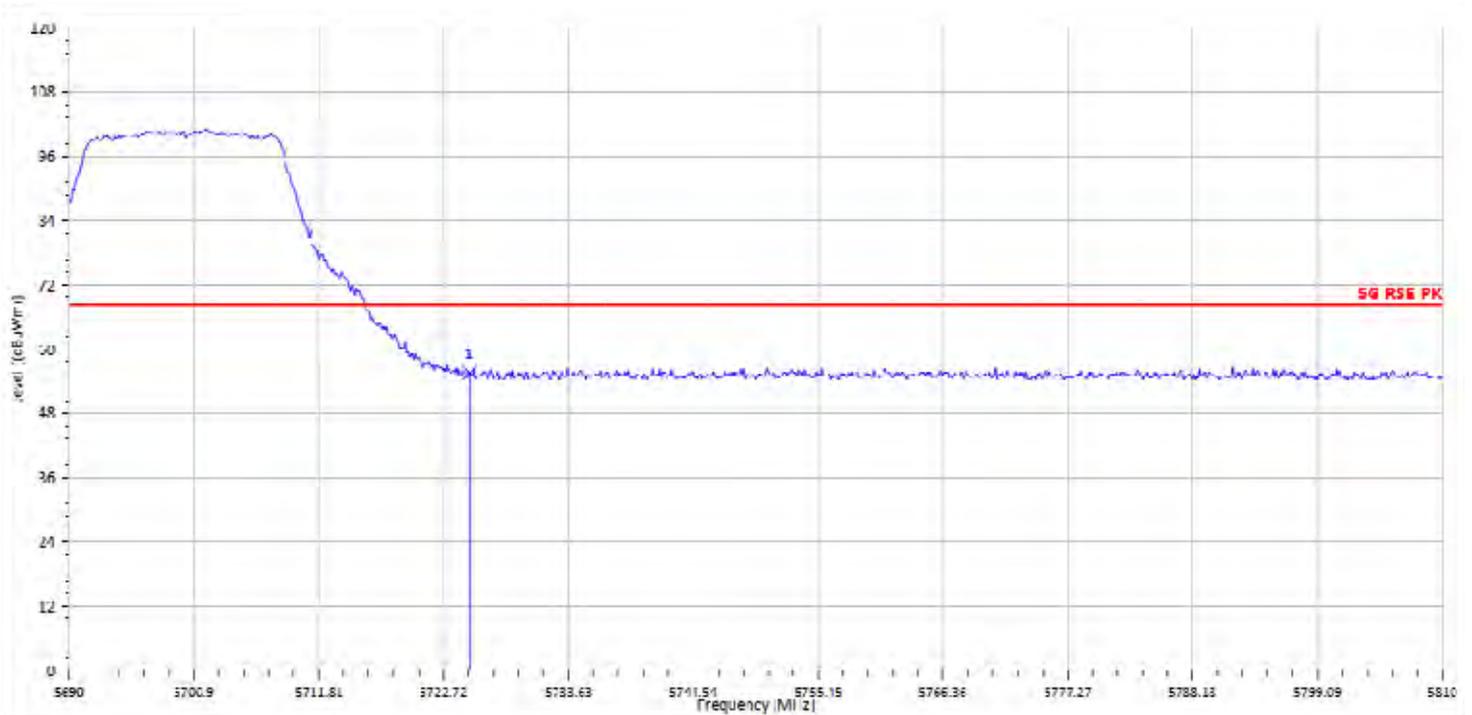
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5470.00	E	Peak	54.36	0.08	54.44	68.3	-13.86

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Operation Mode :	802.11n20B3	Test Date :	2017/9/25
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



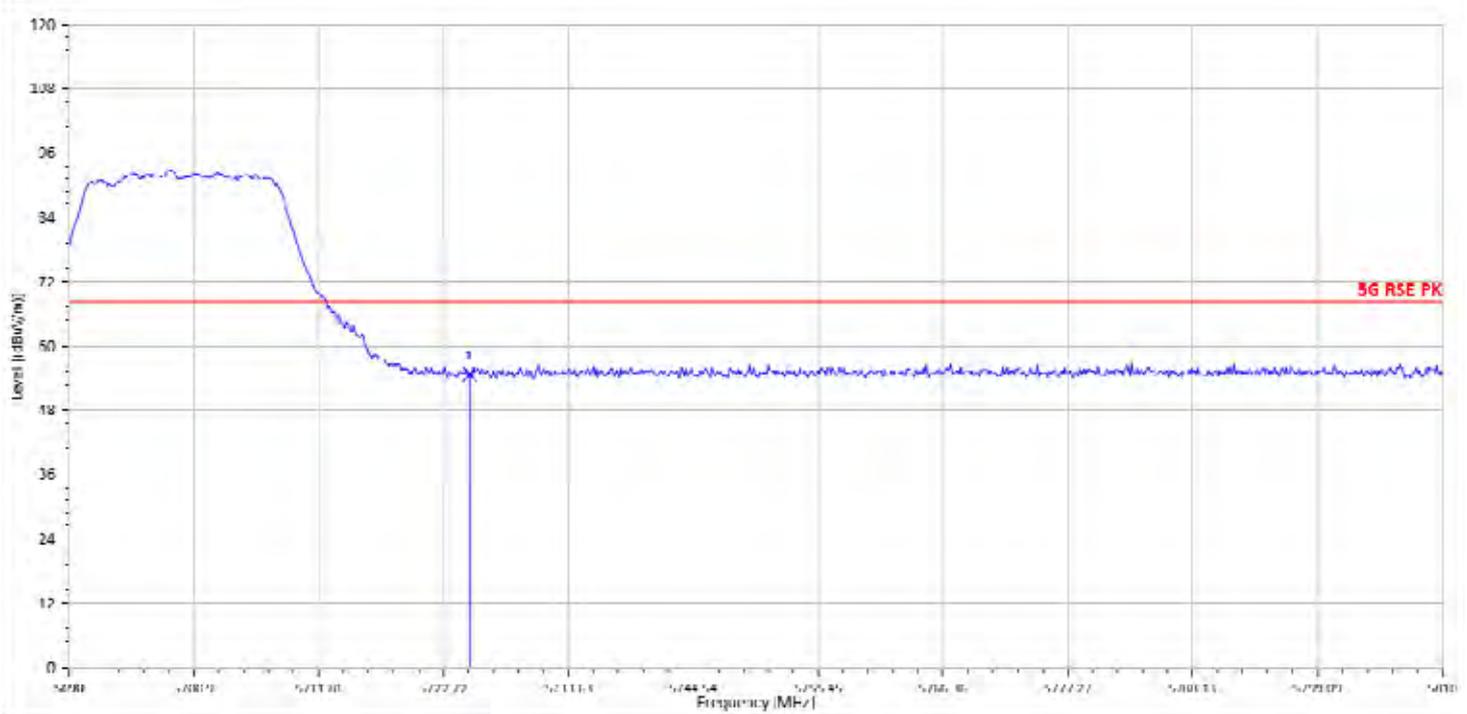
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBEµV	Factor dB	Actual FS dBEµV/m	Limit @3m dBEµV/m	Margin dB
5725.00	E	Peak	54.91	0.69	55.59	68.3	-12.71

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Operation Mode :	802.11n20B3	Test Date :	2017/9/25
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



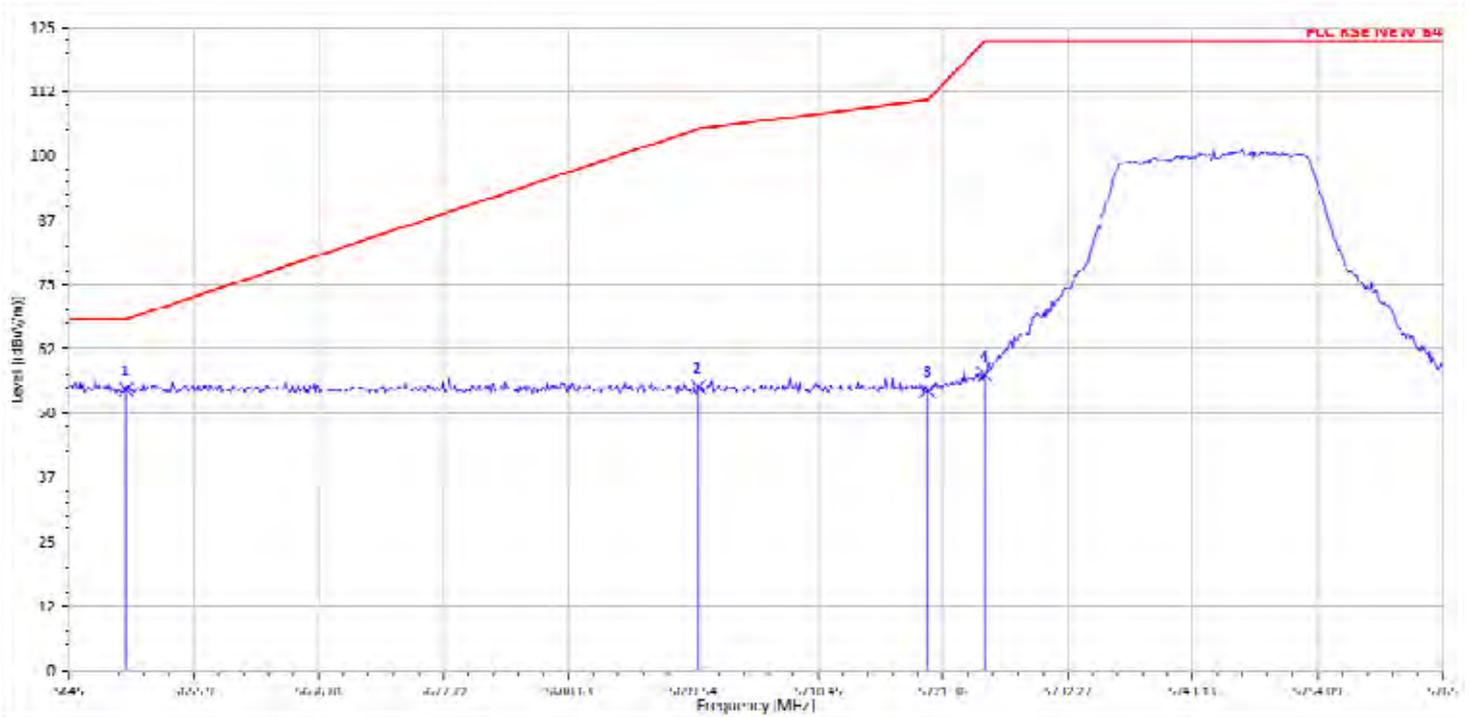
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	E	Peak	54.02	0.69	54.71	68.3	-13.59

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Operation Mode : 802.11n20B4 Test Date : 2017/9/25  
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH LOW Test Engineer : Enzo  
 EUT Pol. : H Measurement Antenna Pol. : Vertical



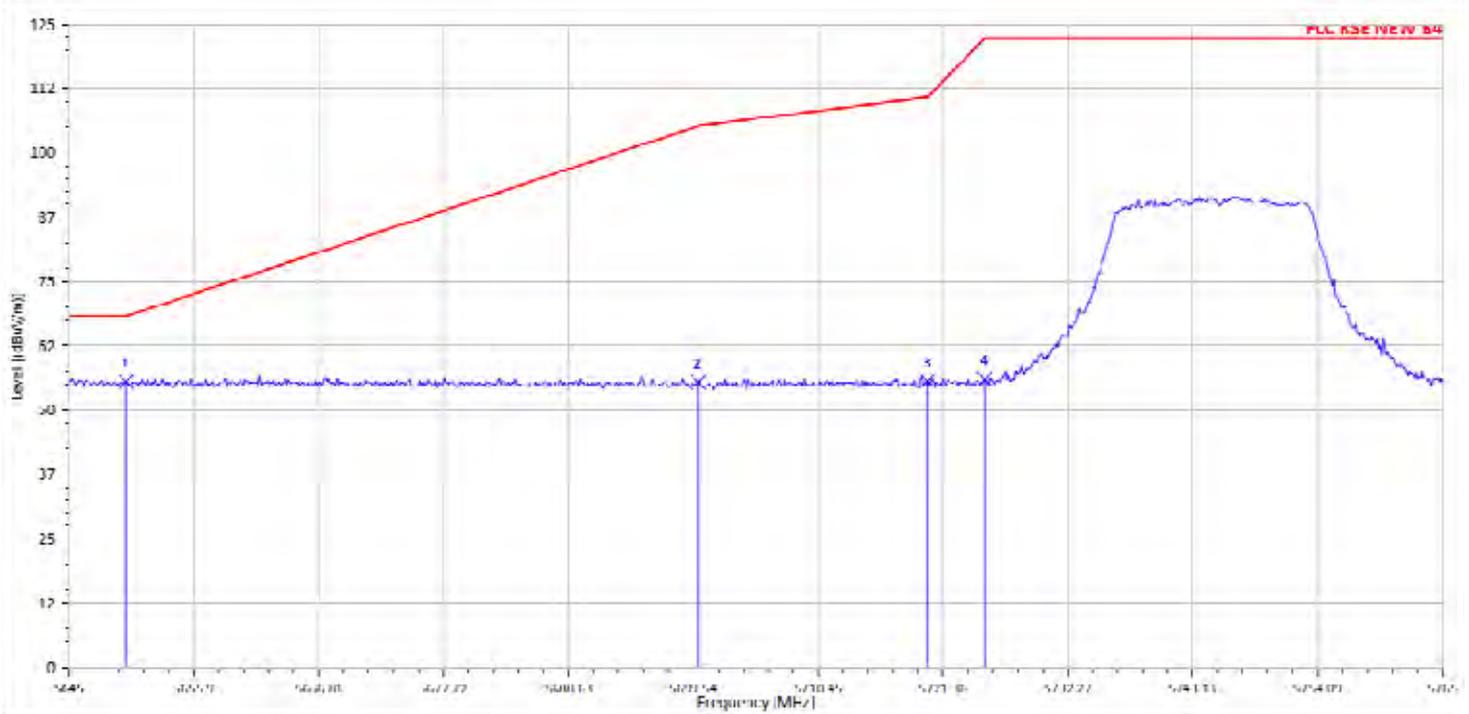
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	S	Peak	53.99	0.63	54.62	68.23	-13.61
5700.00	S	Peak	54.52	0.56	55.08	105.23	-50.15
5720.00	S	Peak	53.69	0.66	54.35	110.83	-56.48
5725.00	E	Peak	56.81	0.69	57.50	122.23	-64.73

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Operation Mode : 802.11n20B4      Test Date : 2017/9/25  
 Fundamental Frequency : 5745 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH LOW      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



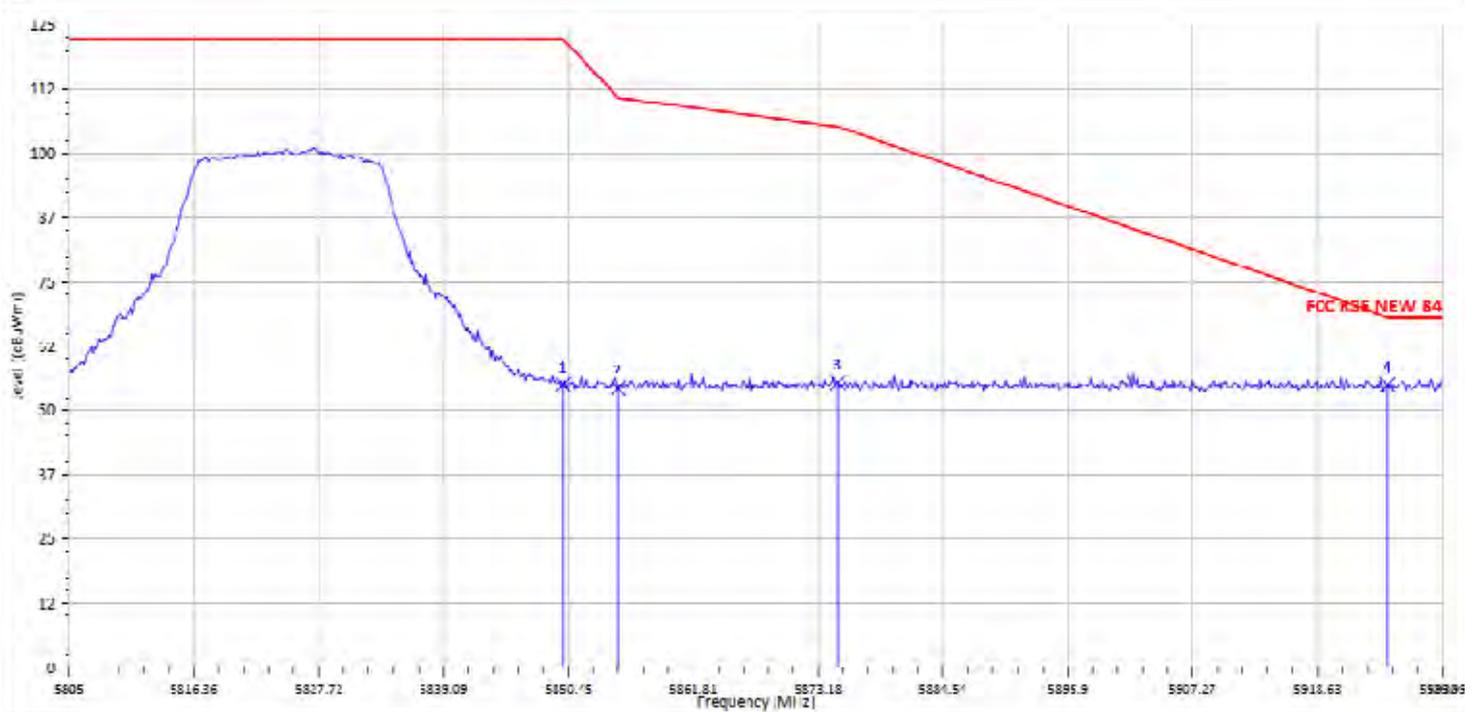
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	S	Peak	54.92	0.63	55.54	68.23	-12.69
5700.00	S	Peak	54.89	0.56	55.45	105.23	-49.78
5720.00	S	Peak	55.03	0.66	55.69	110.83	-55.14
5725.00	E	Peak	55.35	0.69	56.03	122.23	-66.20

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Operation Mode :	802.11n20B4	Test Date :	2017/9/25
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



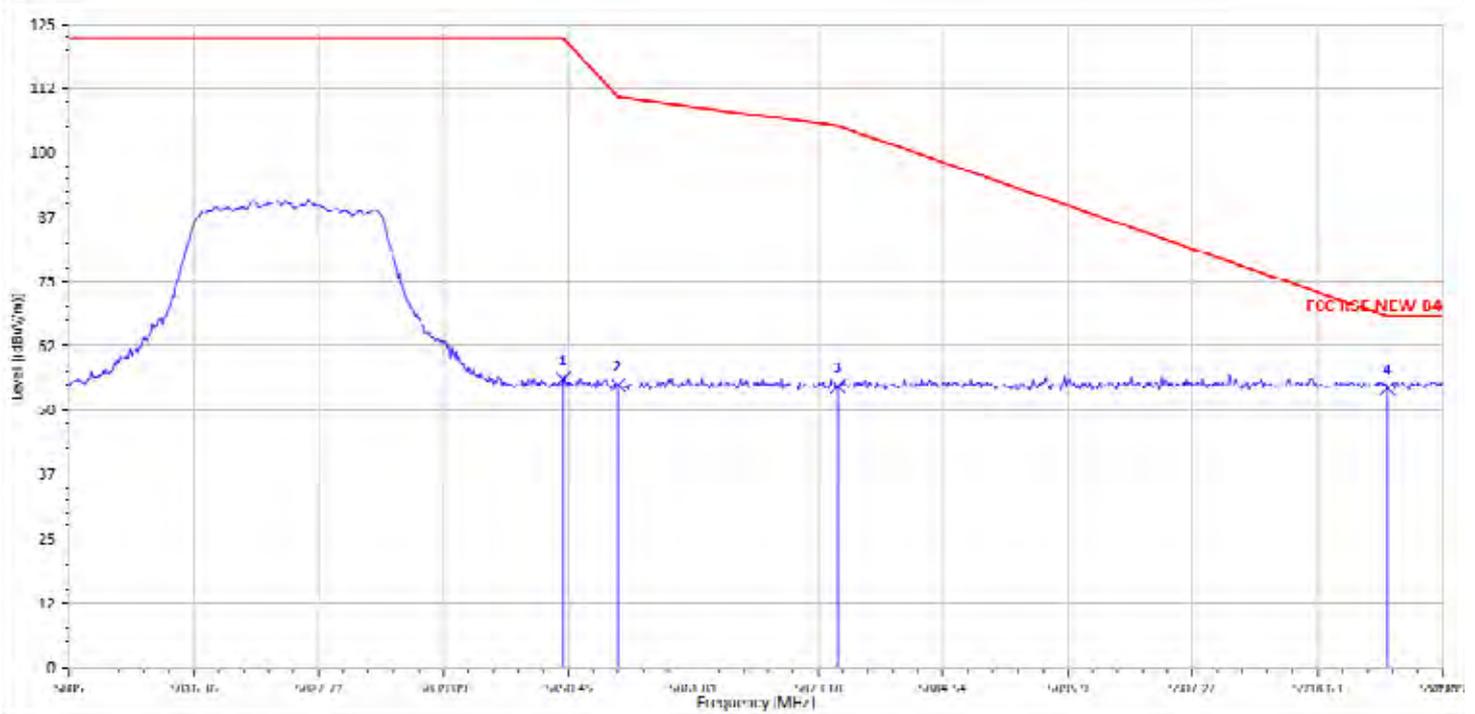
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	54.01	1.01	55.02	122.23	-67.21
5855.00	S	Peak	53.33	1.01	54.33	110.83	-56.50
5875.00	S	Peak	54.34	0.99	55.33	105.23	-49.90
5925.00	S	Peak	53.93	1.04	54.96	68.23	-13.27

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Operation Mode :	802.11n20B4	Test Date :	2017/9/25
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
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	55.04	1.01	56.05	122.23	-66.18
5855.00	S	Peak	53.90	1.01	54.91	110.83	-55.92
5875.00	S	Peak	53.62	0.99	54.60	105.23	-50.63
5925.00	S	Peak	53.22	1.04	54.26	68.23	-13.97

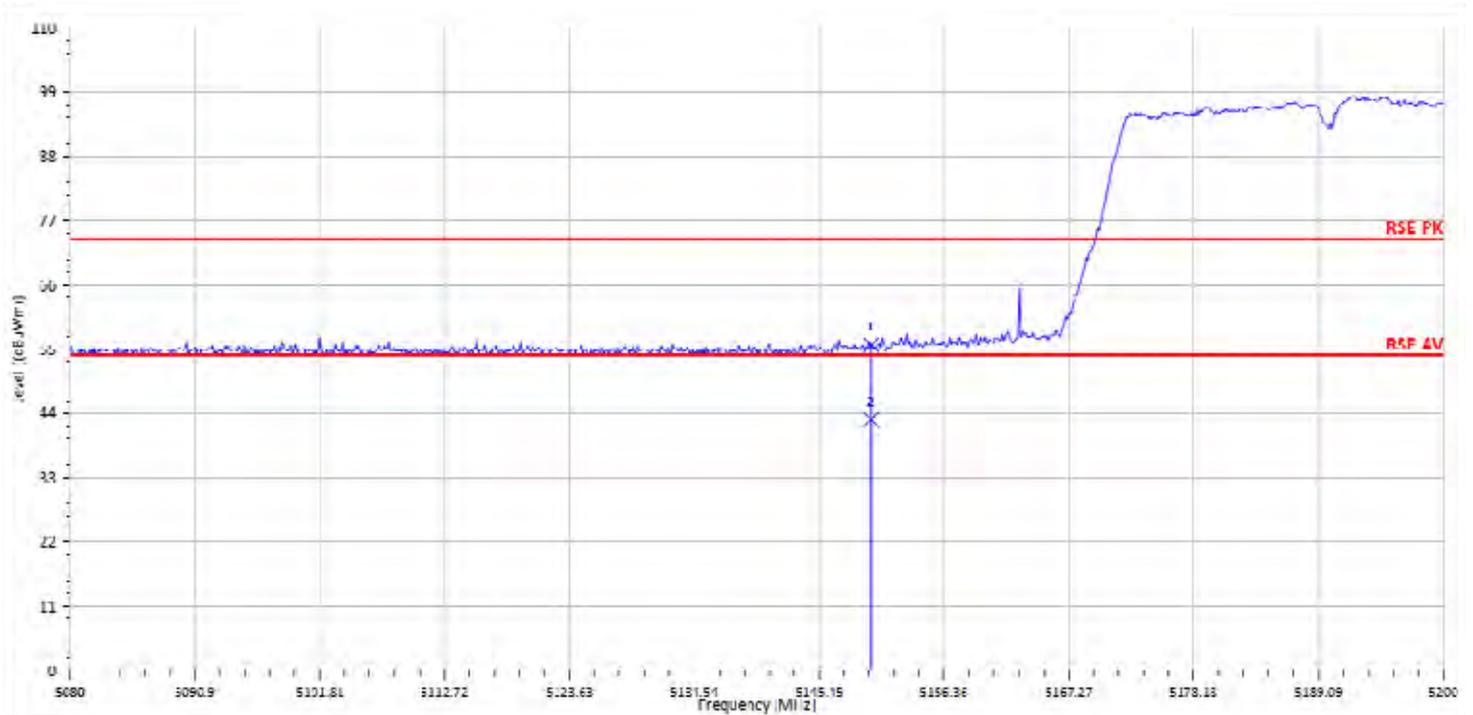
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**802.11n40 HT mode**

Operation Mode :	802.11n40B1	Test Date :	2017/9/25
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



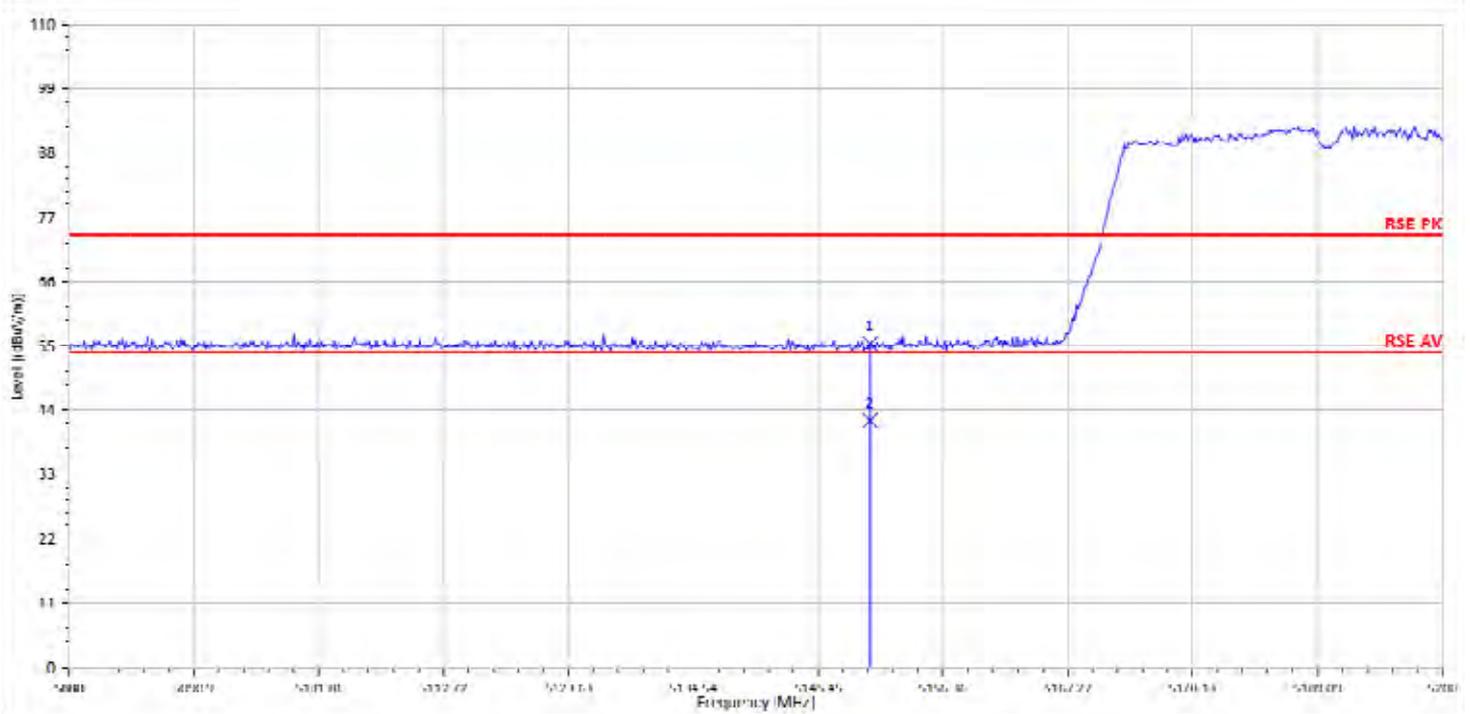
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	E	Peak	55.91	-0.17	55.74	74	-18.26
5150.00	E	Average	43.14	-0.17	42.97	54	-11.03

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Operation Mode :	802.11n40B1	Test Date :	2017/9/25
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



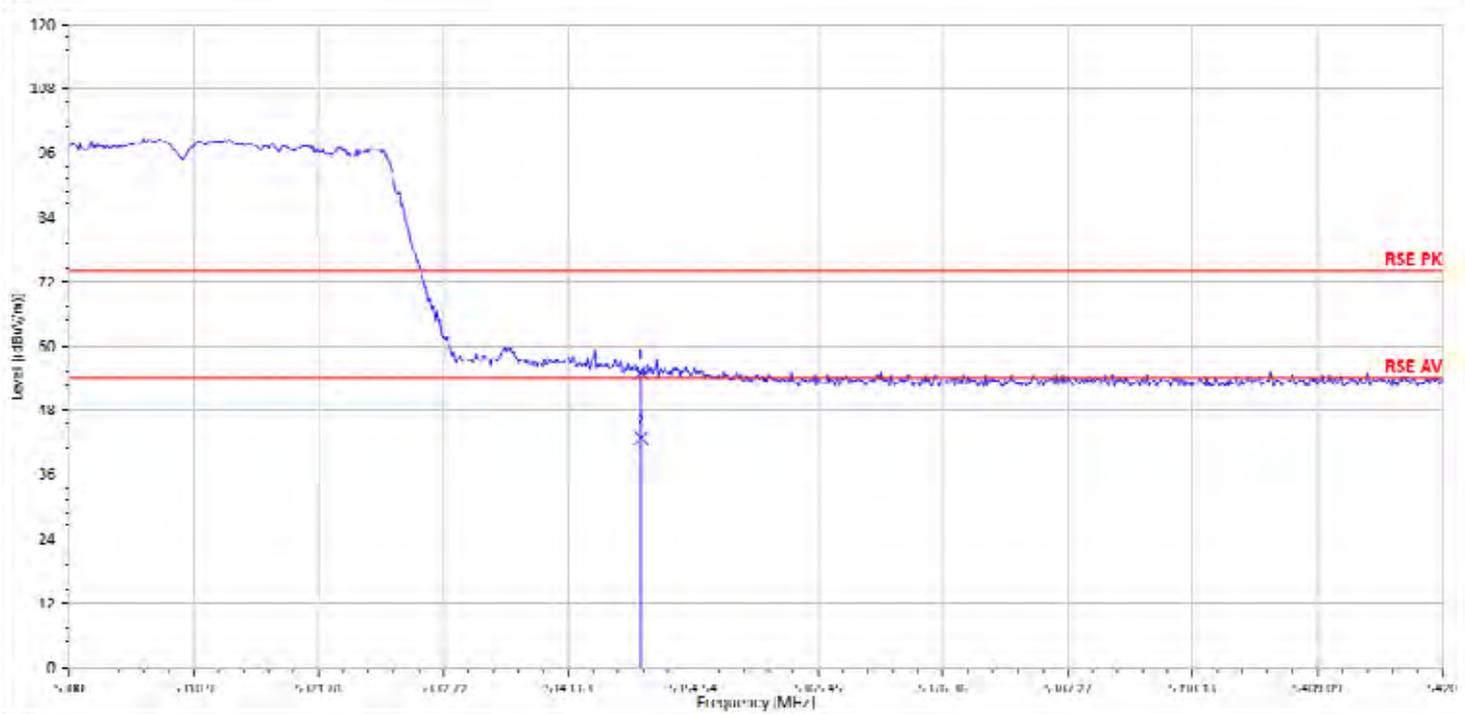
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5150.00	E	Peak	55.50	-0.17	55.33	74	-18.67
5150.00	E	Average	42.31	-0.17	42.14	54	-11.86

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Operation Mode :	802.11n40B2	Test Date :	2017/9/25
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



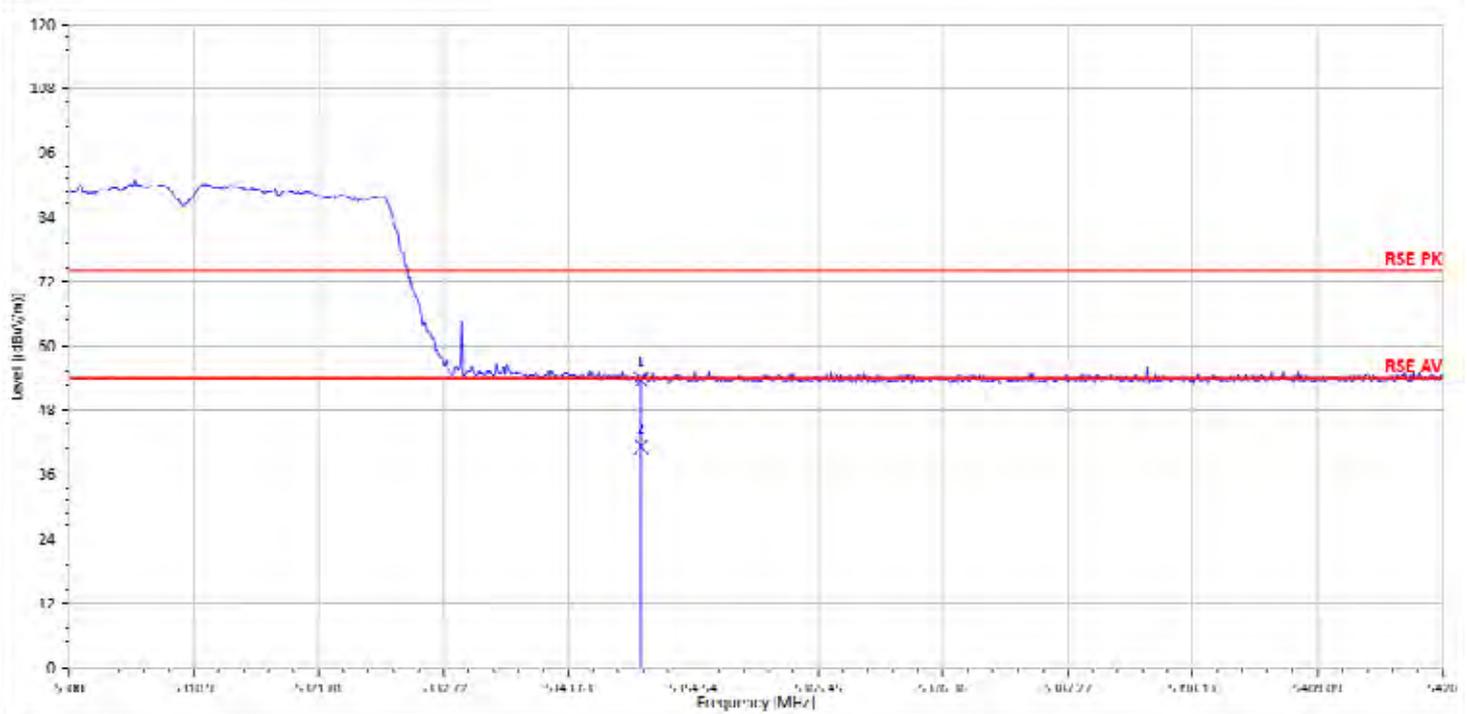
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	55.24	-0.15	55.09	74	-18.91
5350.00	E	Average	42.94	-0.15	42.78	54	-11.22

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Operation Mode :	802.11n40B2	Test Date :	2017/9/25
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



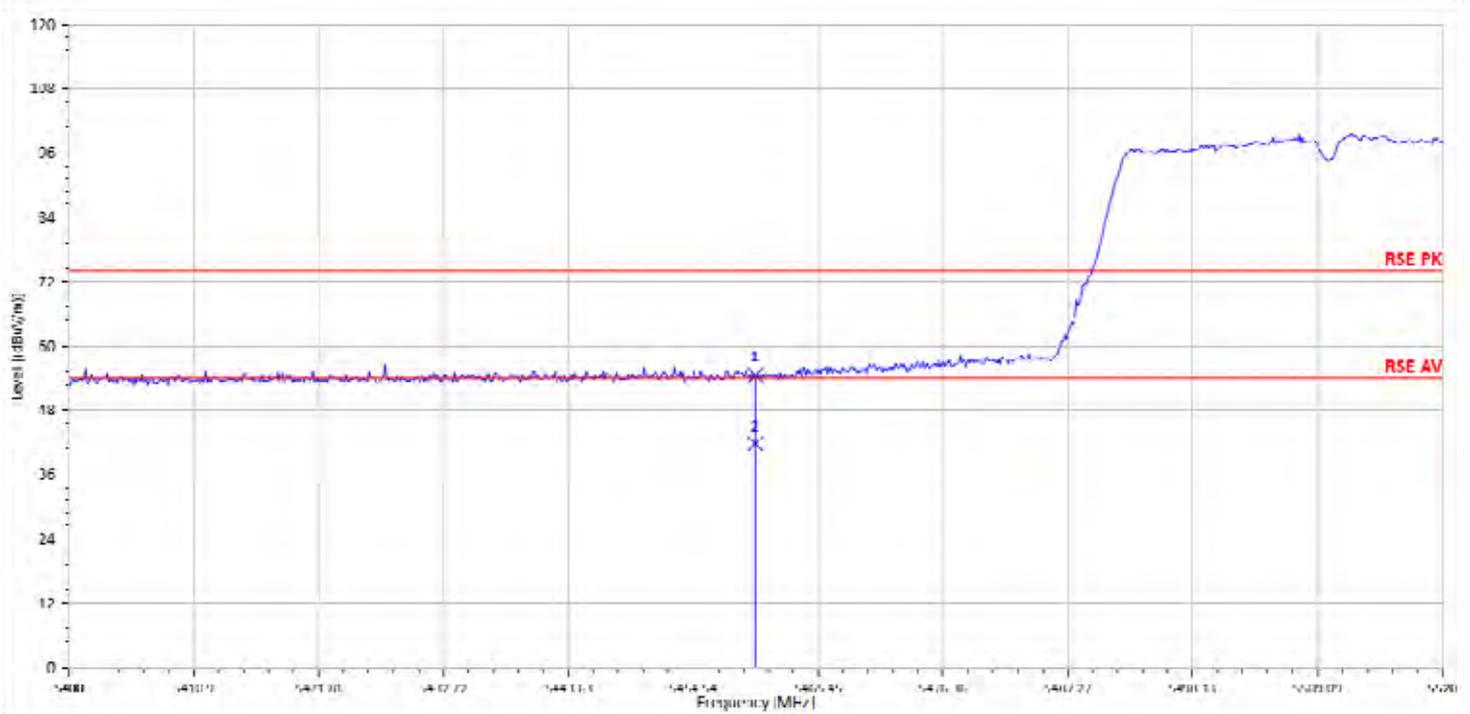
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	53.84	-0.15	53.69	74	-20.31
5350.00	E	Average	41.32	-0.15	41.16	54	-12.84

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Operation Mode :	802.11n40B3	Test Date :	2017/9/25
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



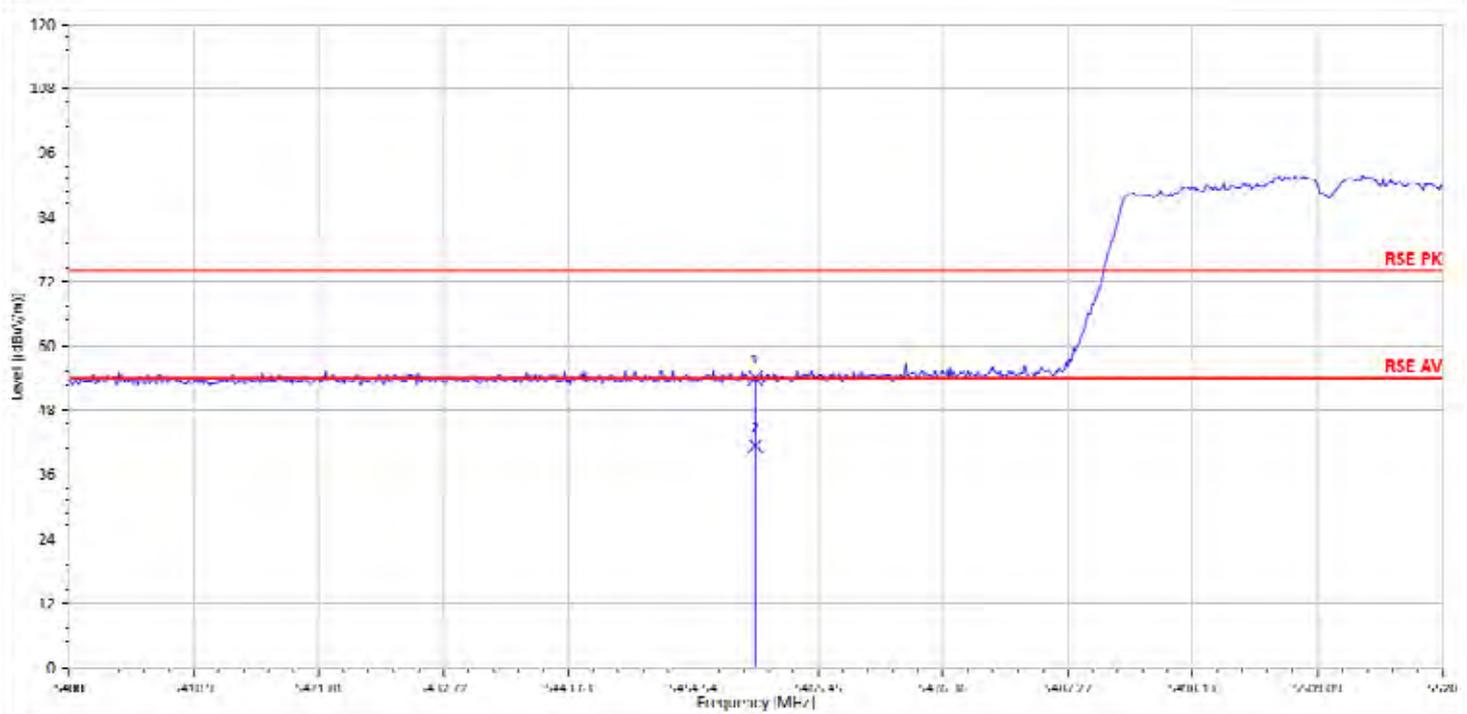
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	E	Peak	54.43	0.06	54.48	74	-19.52
5460.00	E	Average	41.64	0.06	41.70	54	-12.30

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Operation Mode :	802.11n40B3	Test Date :	2017/9/25
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



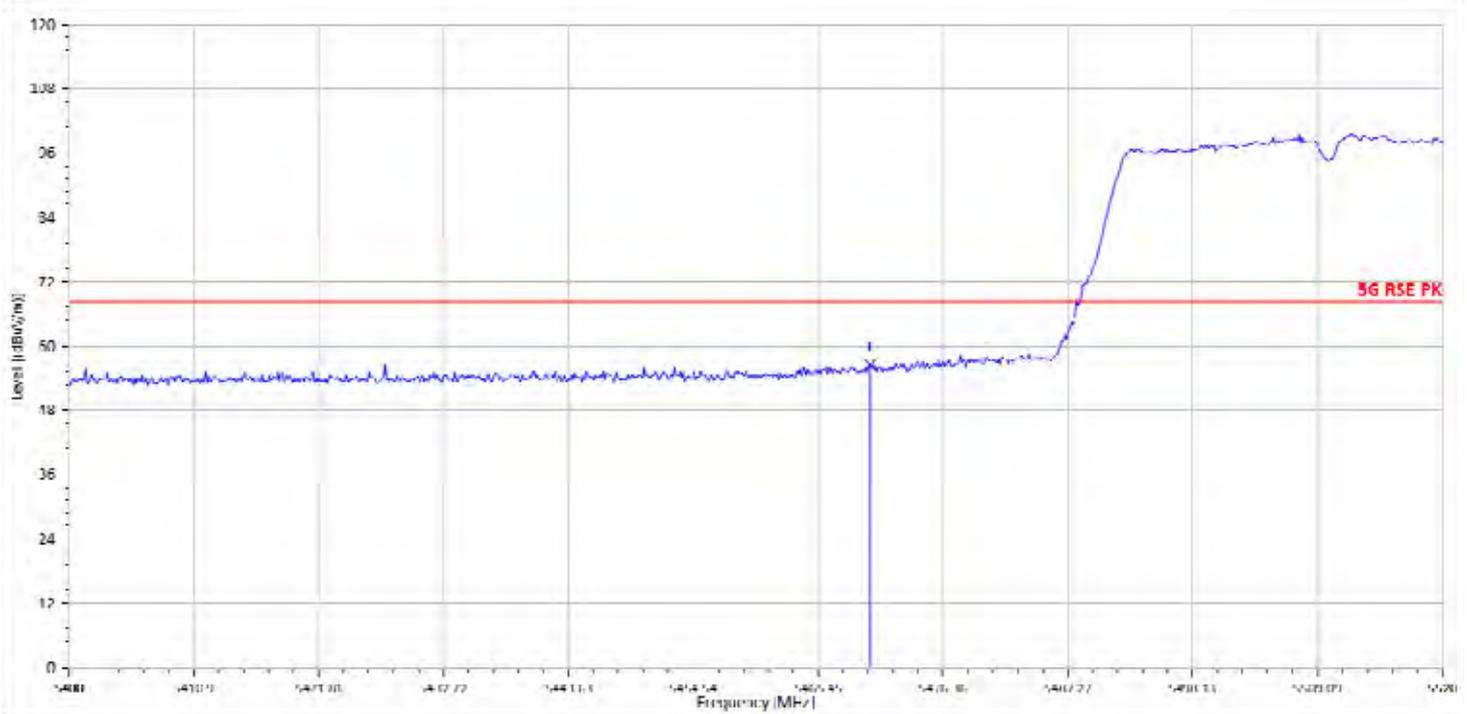
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	E	Peak	53.97	0.06	54.03	74	-19.97
5460.00	E	Average	41.29	0.06	41.35	54	-12.65

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Operation Mode :	802.11n40B3	Test Date :	2017/9/25
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



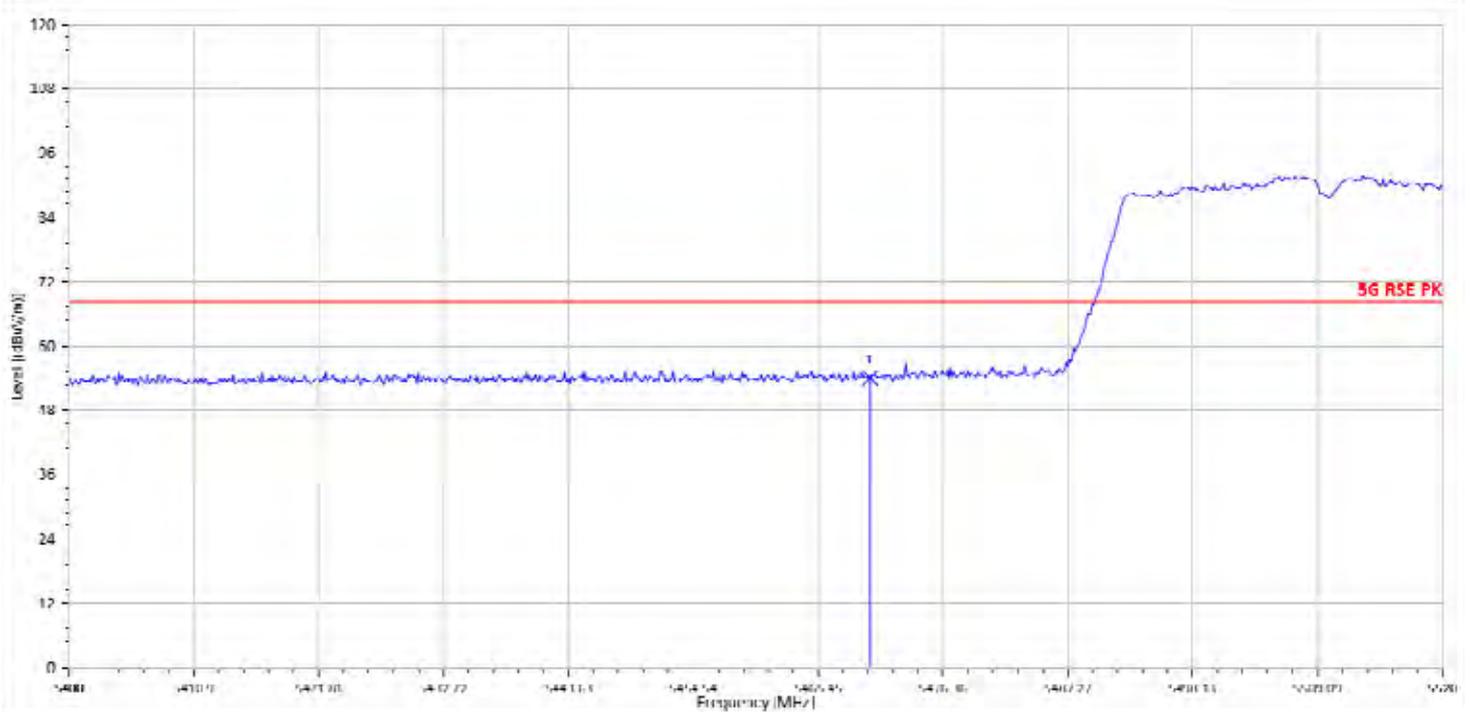
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5470.00	E	Peak	56.36	0.08	56.44	68.3	-11.86

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Operation Mode :	802.11n40B3	Test Date :	2017/9/25
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



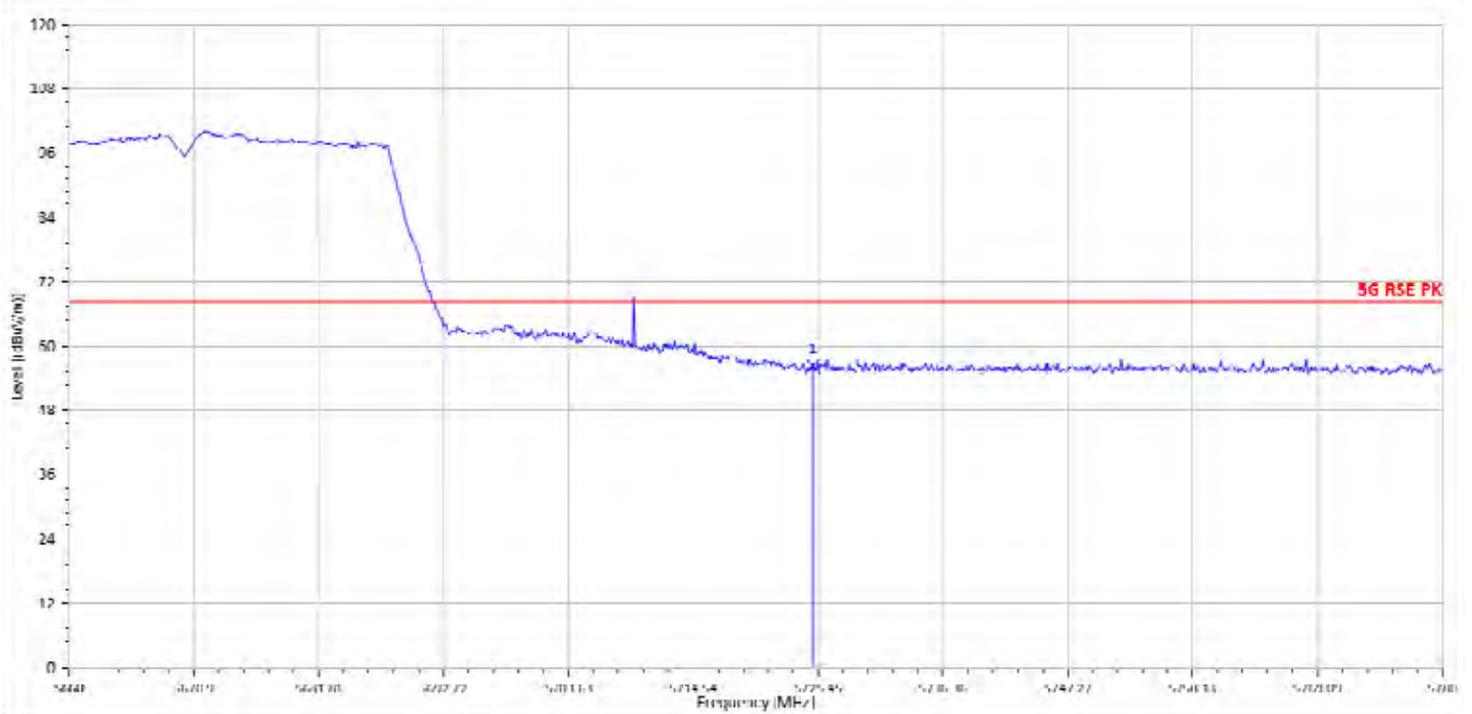
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5470.00	E	Peak	53.98	0.08	54.06	68.3	-14.24

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Operation Mode :	802.11n40B3	Test Date :	2017/9/25
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



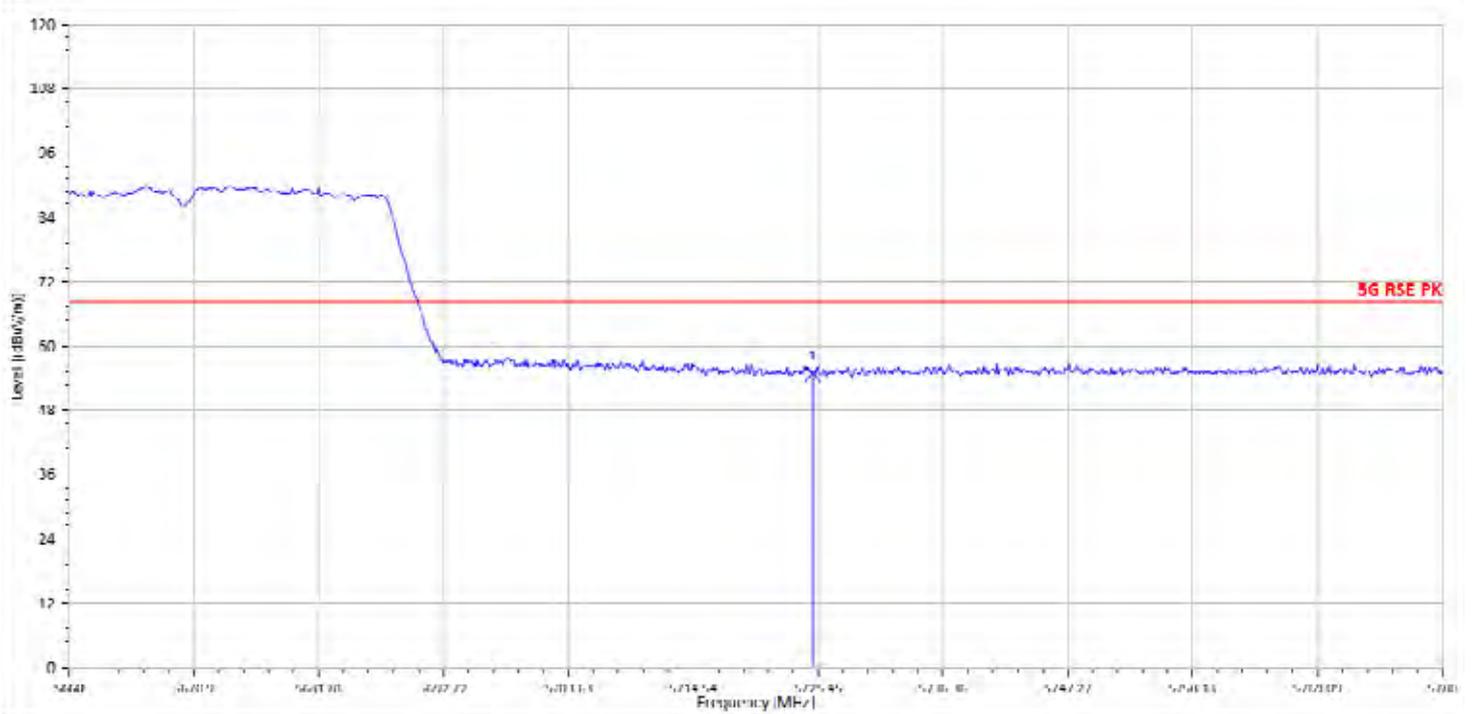
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	E	Peak	55.53	0.69	56.21	68.3	-12.09

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Operation Mode :	802.11n40B3	Test Date :	2017/9/25
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



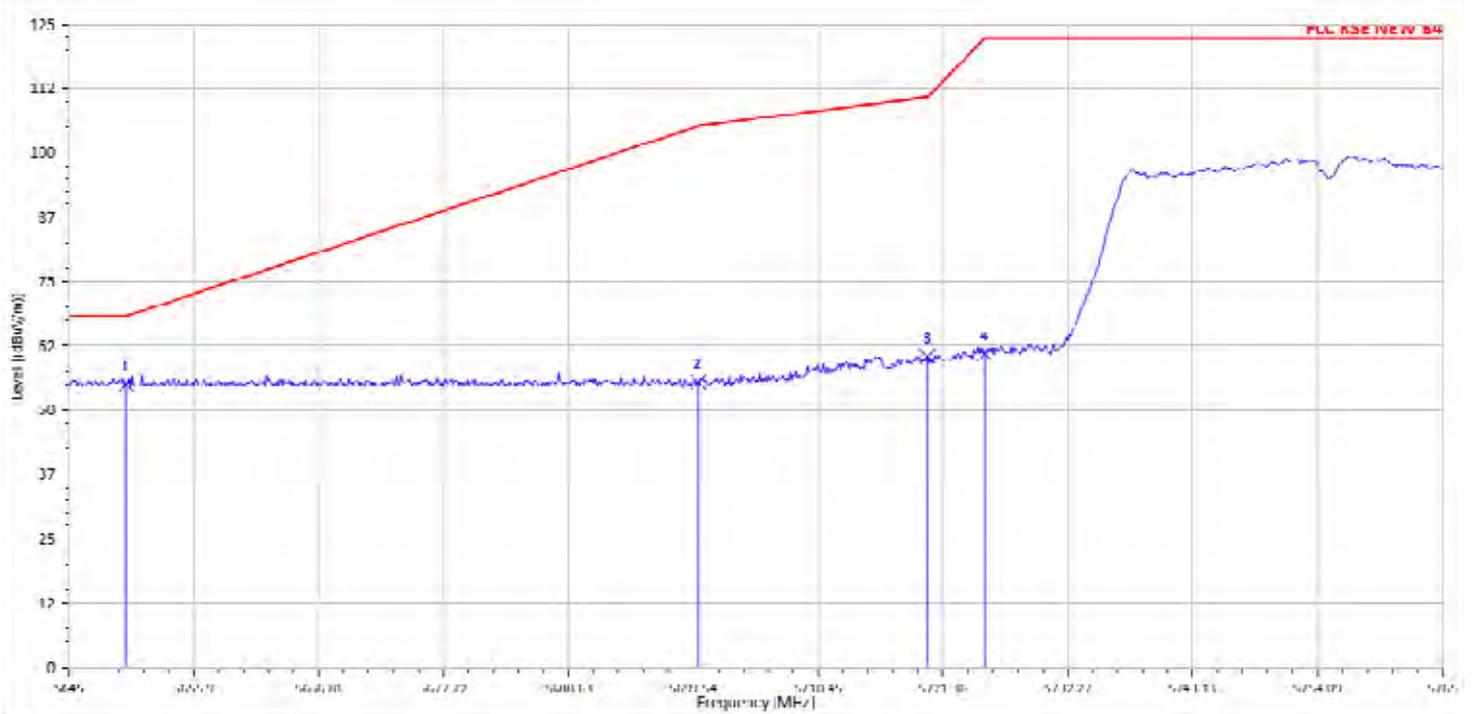
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5725.00	E	Peak	54.16	0.69	54.84	68.3	-13.46

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Operation Mode :	802.11n40B4	Test Date :	2017/9/25
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



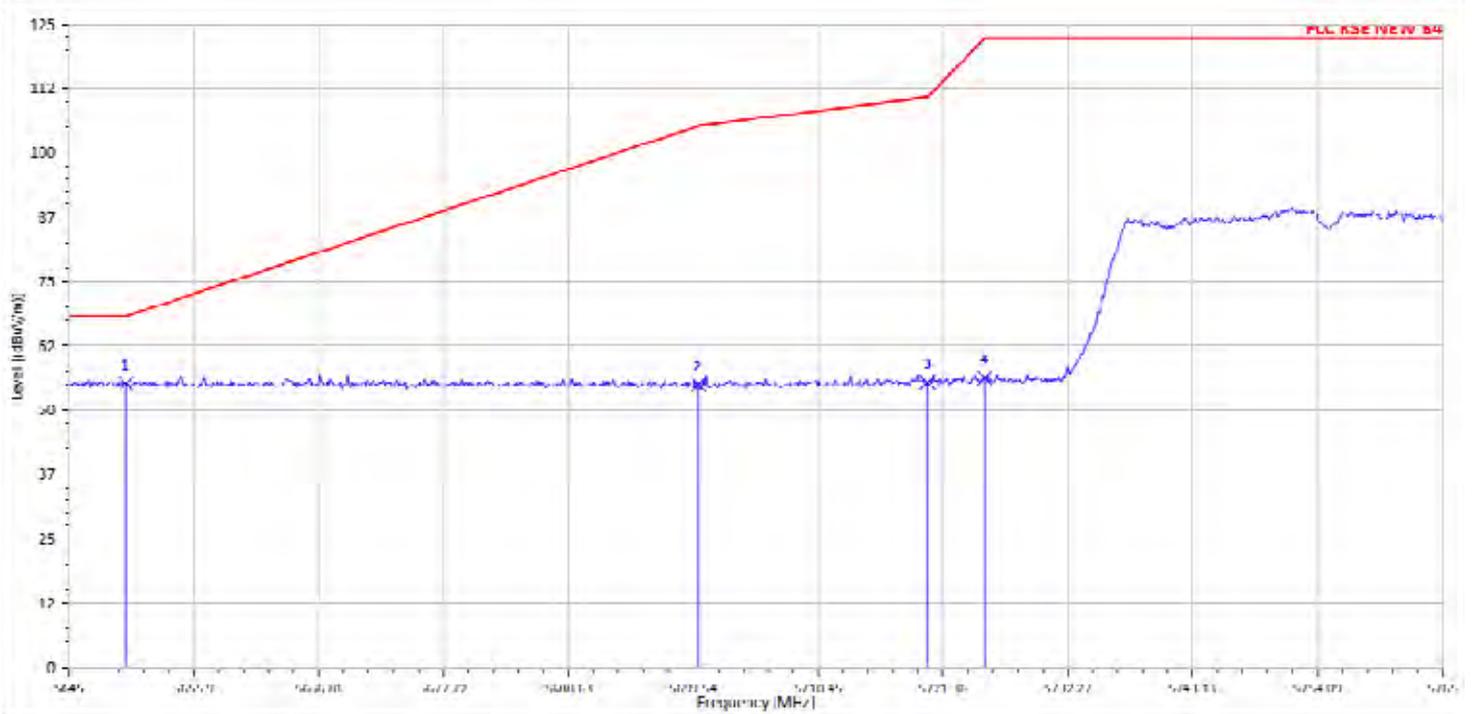
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	S	Peak	54.29	0.63	54.92	68.23	-13.31
5700.00	S	Peak	54.89	0.56	55.45	105.23	-49.78
5720.00	S	Peak	59.82	0.66	60.48	110.83	-50.35
5725.00	E	Peak	60.21	0.69	60.89	122.23	-61.34

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Operation Mode :	802.11n40B4	Test Date :	2017/9/25
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



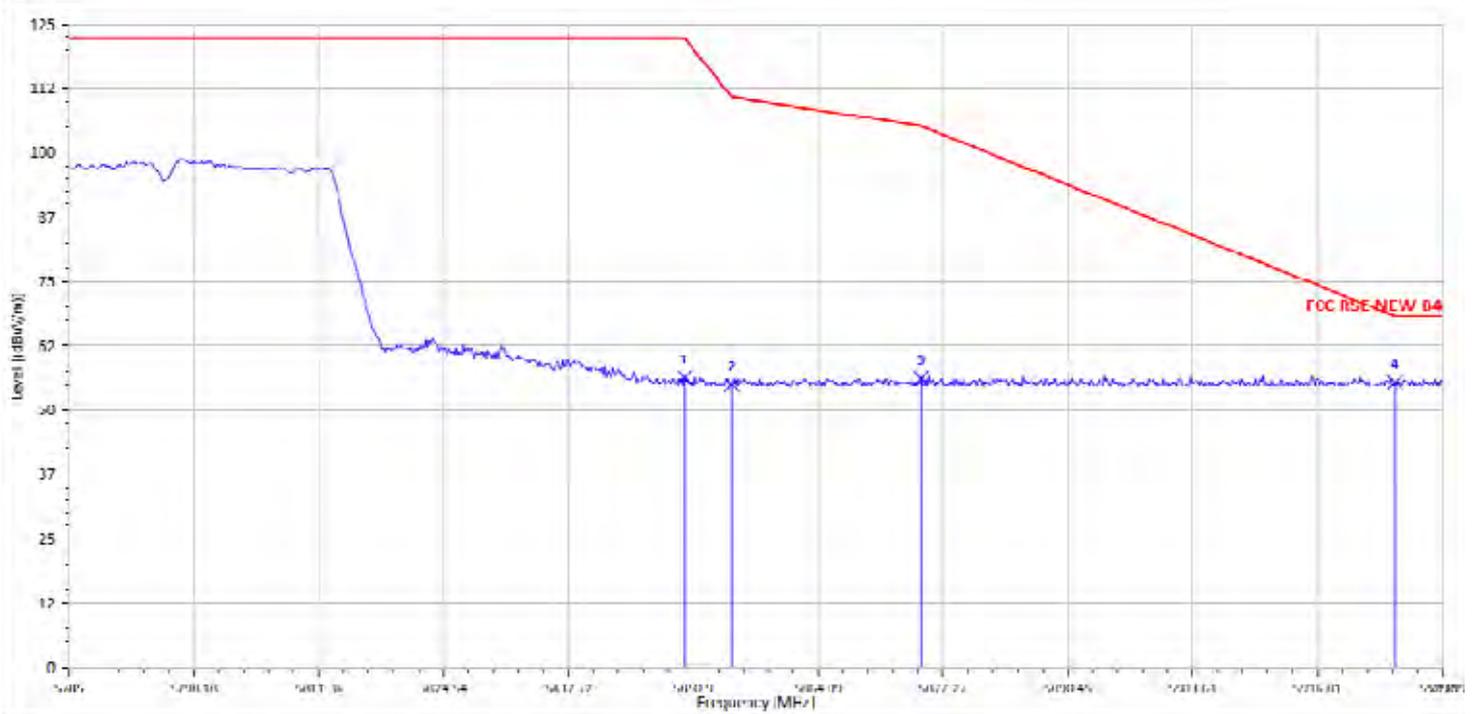
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	54.48	0.63	55.11	68.23	-13.12
5700.00	S	Peak	54.44	0.56	55.00	105.23	-50.23
5720.00	S	Peak	54.71	0.66	55.37	110.83	-55.46
5725.00	E	Peak	55.56	0.69	56.24	122.23	-65.99

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Operation Mode :	802.11n40B4	Test Date :	2017/9/25
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



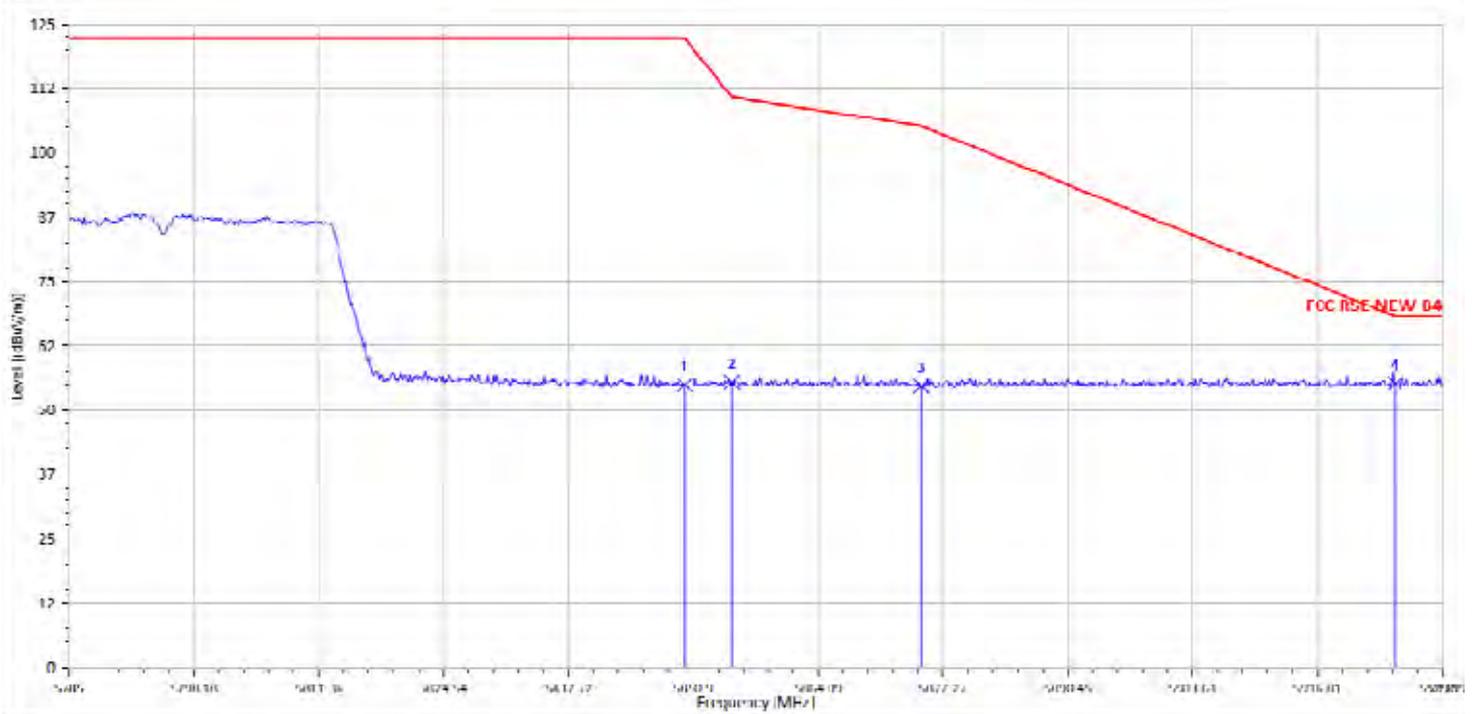
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5850.00	E	Peak	55.34	1.01	56.35	122.23	-65.88
5855.00	S	Peak	53.89	1.01	54.90	110.83	-55.93
5875.00	S	Peak	55.22	0.99	56.21	105.23	-49.02
5925.00	S	Peak	54.33	1.04	55.37	68.23	-12.86

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Operation Mode :	802.11n40B4	Test Date :	2017/9/25
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
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	53.89	1.01	54.90	122.23	-67.33
5855.00	S	Peak	54.39	1.01	55.40	110.83	-55.43
5875.00	S	Peak	53.71	0.99	54.70	105.23	-50.53
5925.00	S	Peak	54.10	1.04	55.14	68.23	-13.09

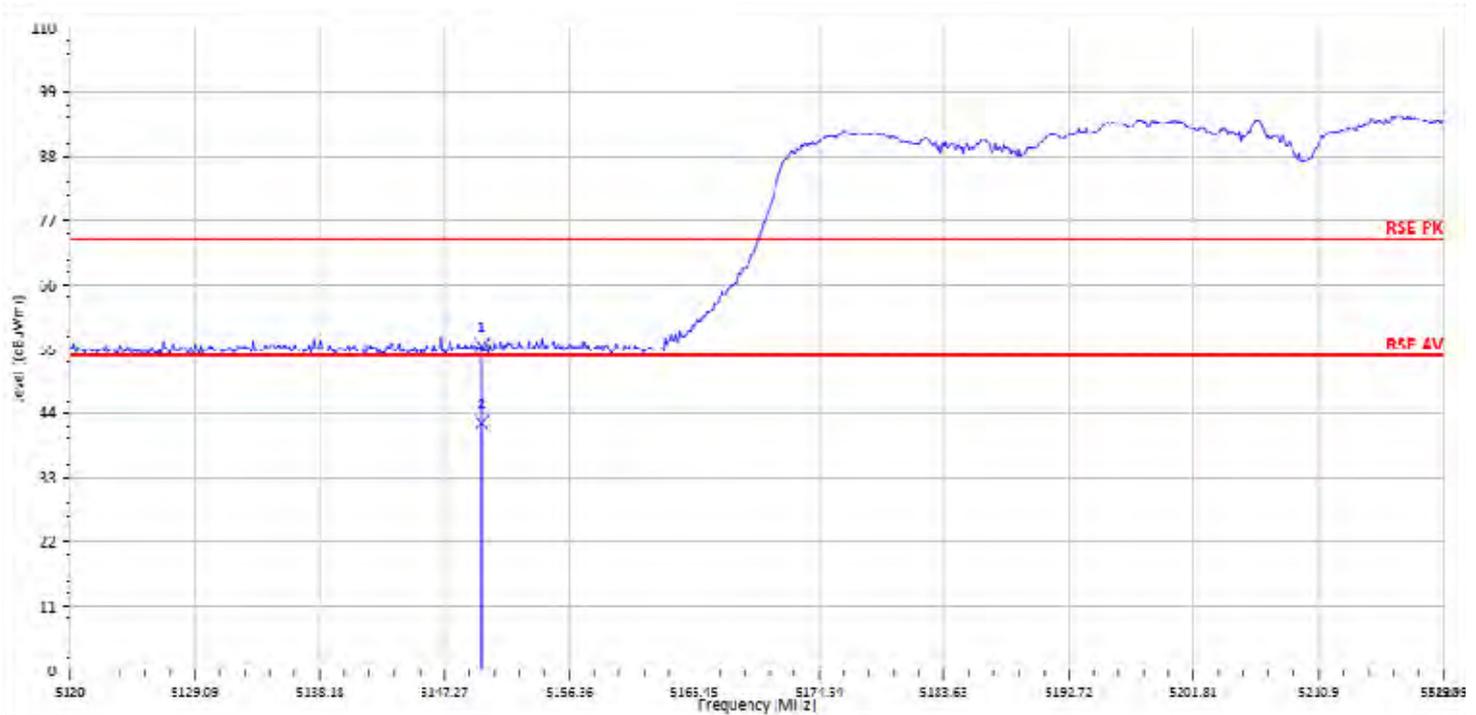
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### 802.11ac80 VHT mode

Operation Mode :	802.11ac80B1	Test Date :	2017/9/25
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



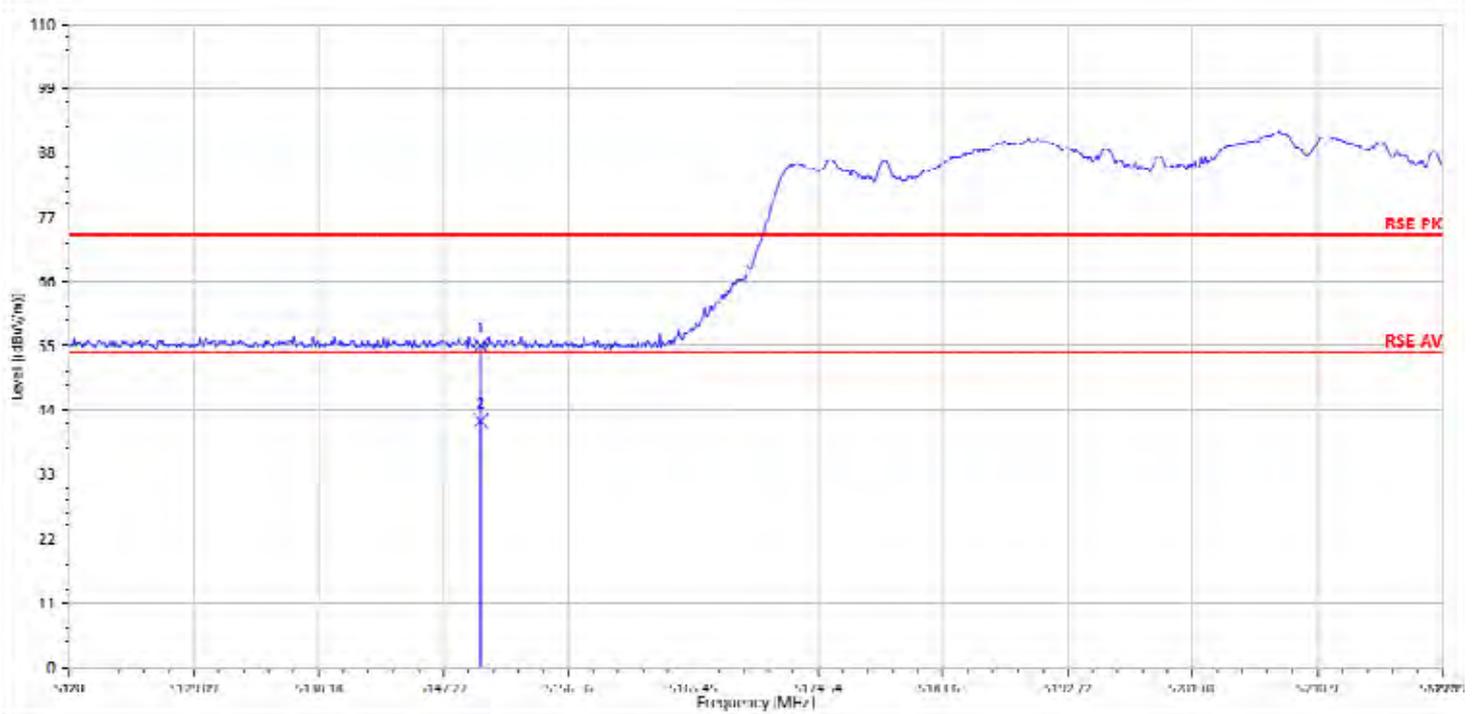
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	E	Peak	55.74	-0.17	55.57	74	-18.43
5150.00	E	Average	42.60	-0.17	42.43	54	-11.57

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Operation Mode :	802.11ac80B1	Test Date :	2017/9/25
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



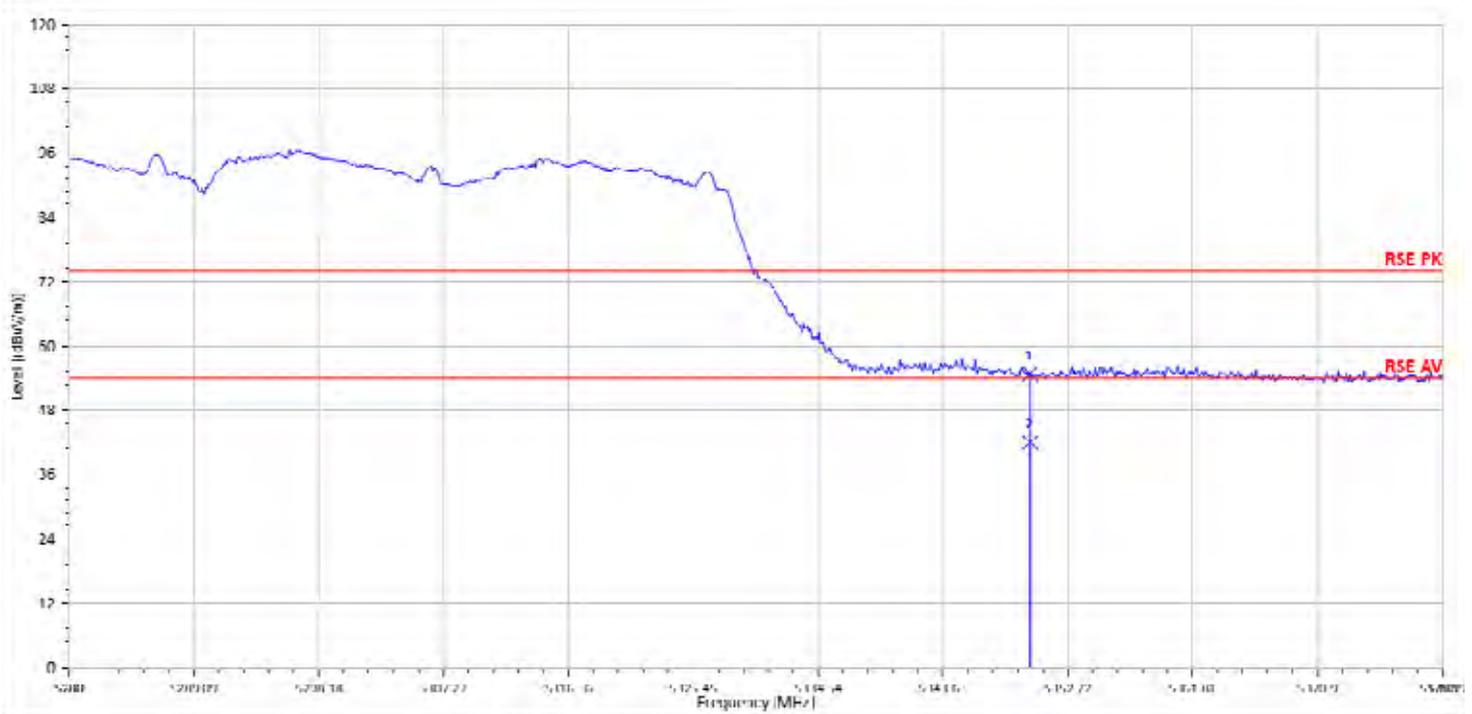
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	E	Peak	55.25	-0.17	55.08	74	-18.92
5150.00	E	Average	42.26	-0.17	42.09	54	-11.91

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Operation Mode : 802.11ac80B2      Test Date : 2017/9/25  
 Fundamental Frequency : 5290 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH HIGH      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Vertical



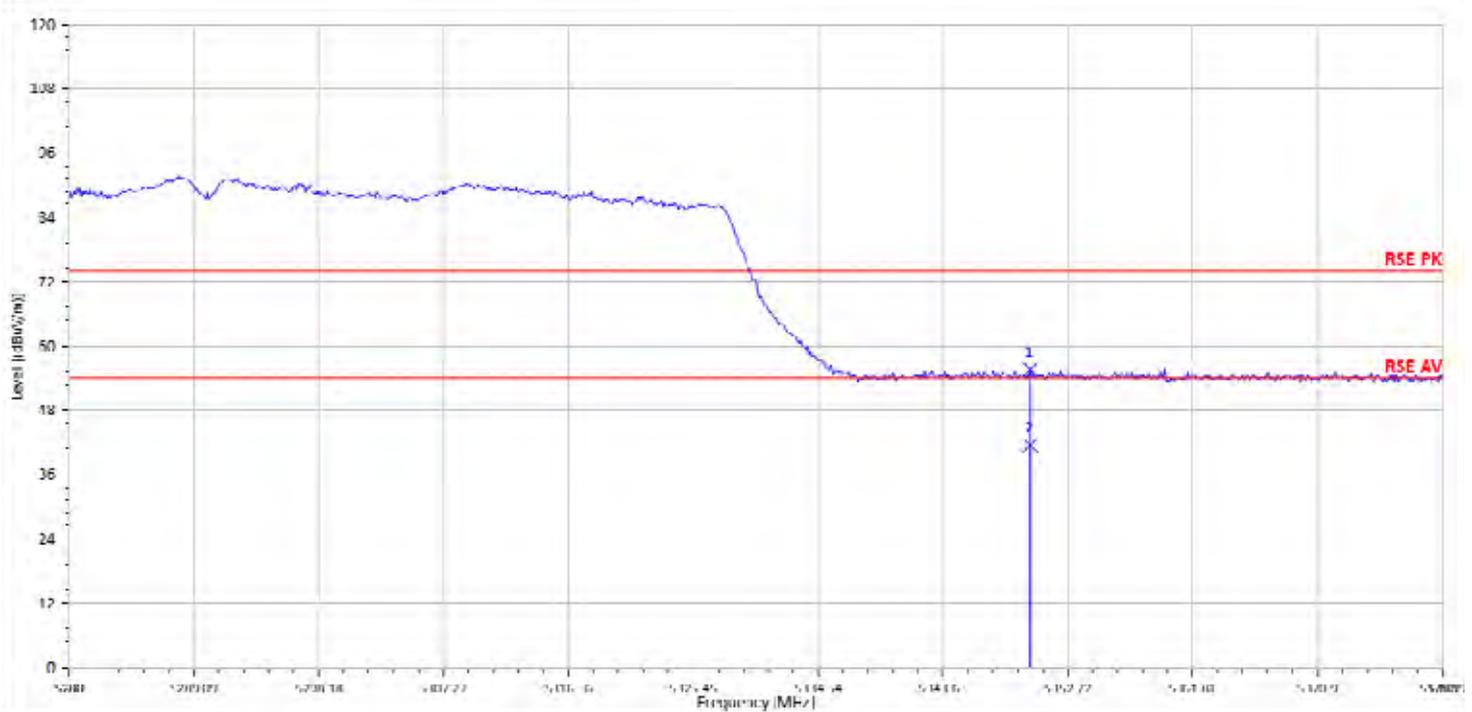
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	54.96	-0.15	54.80	74	-19.20
5350.00	E	Average	42.12	-0.15	41.97	54	-12.03

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Operation Mode : 802.11ac80B2      Test Date : 2017/9/25  
 Fundamental Frequency : 5290 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH HIGH      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



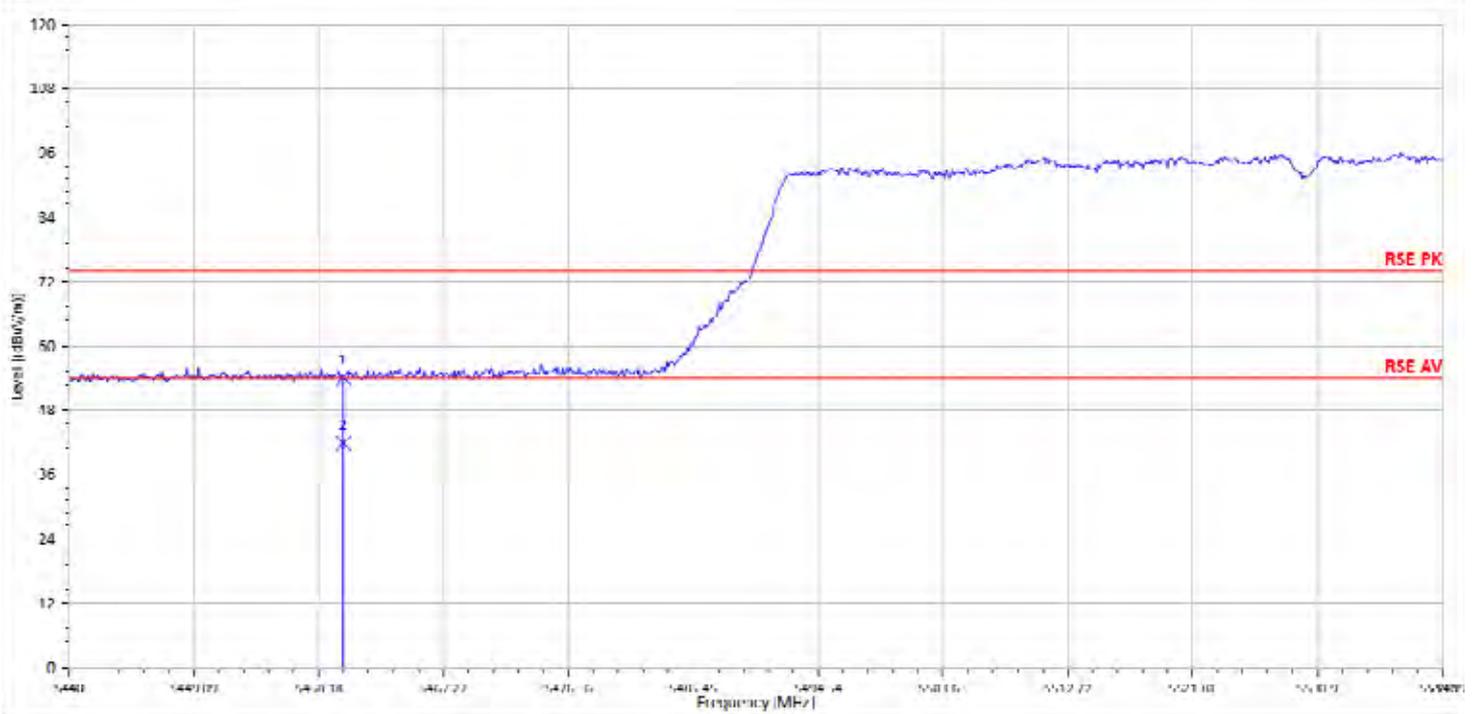
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	55.69	-0.15	55.54	74	-18.46
5350.00	E	Average	41.56	-0.15	41.40	54	-12.60

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Operation Mode :	802.11ac80B3	Test Date :	2017/9/25
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



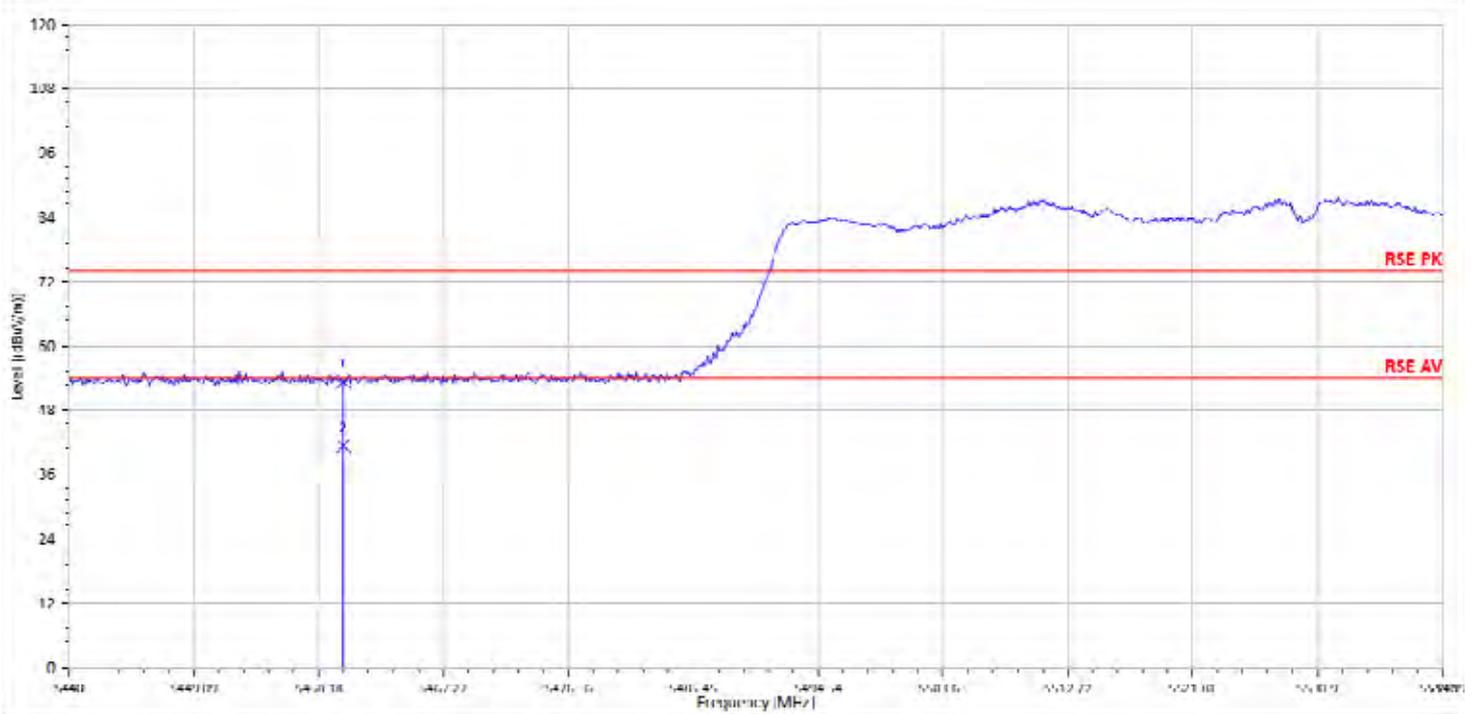
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	E	Peak	54.14	0.06	54.20	74	-19.80
5460.00	E	Average	41.74	0.06	41.80	54	-12.20

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Operation Mode :	802.11ac80B3	Test Date :	2017/9/25
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



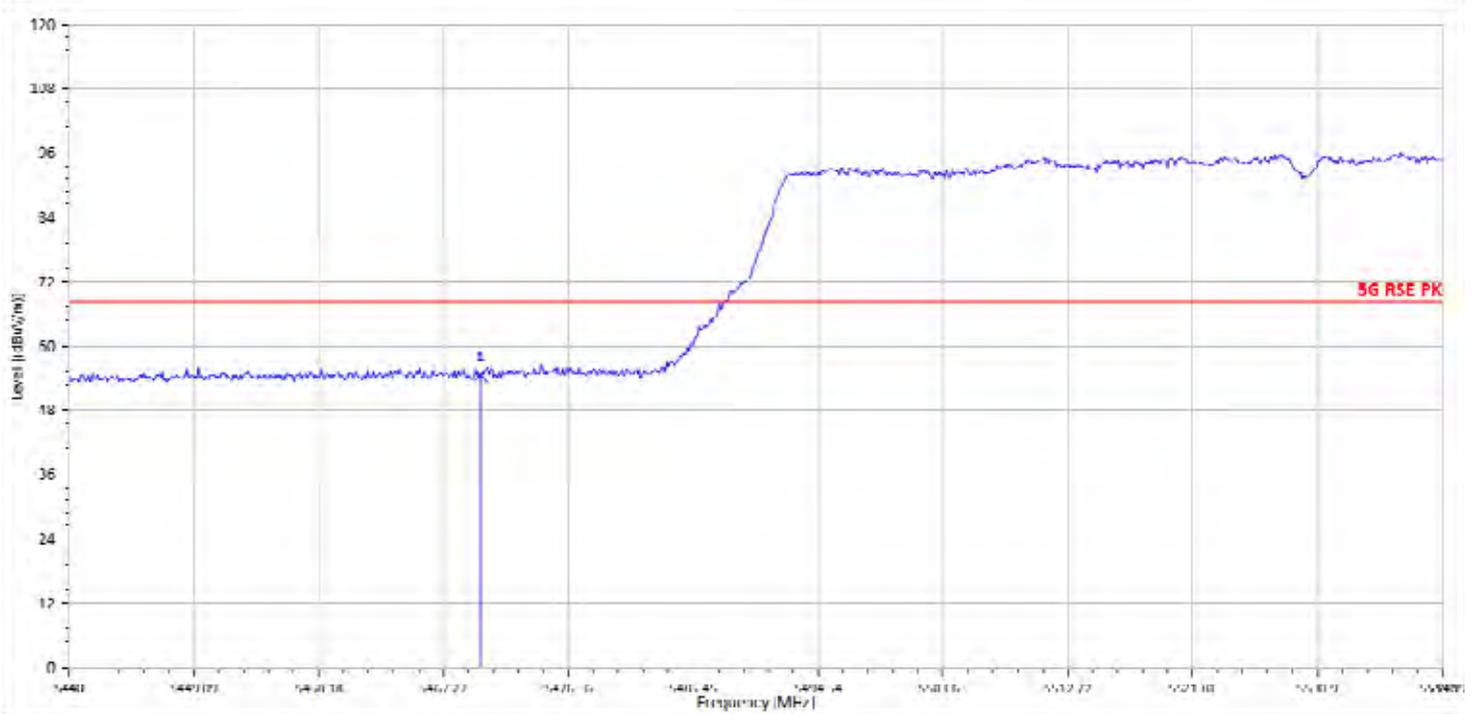
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	E	Peak	53.29	0.06	53.35	74	-20.65
5460.00	E	Average	41.25	0.06	41.31	54	-12.69

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Operation Mode :	802.11ac80B3	Test Date :	2017/9/25
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



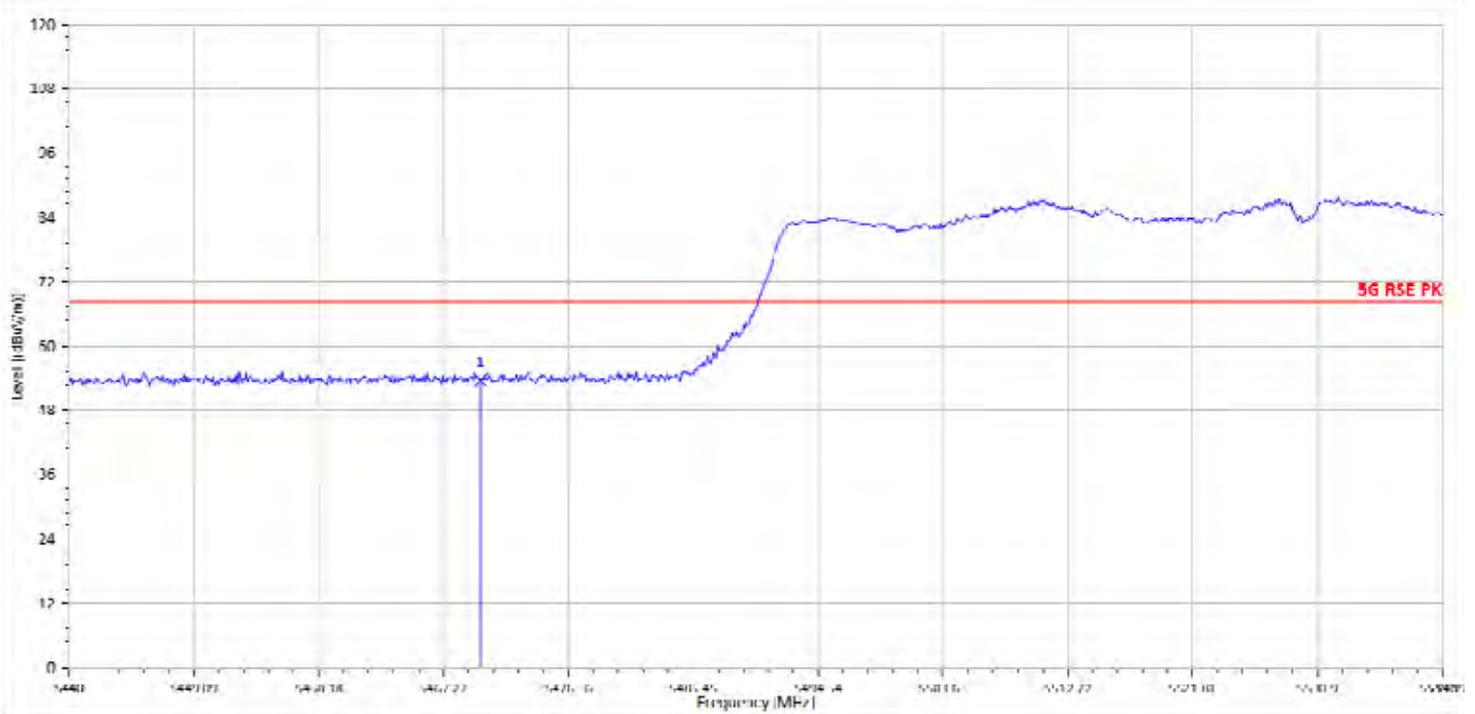
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5470.00	E	Peak	54.50	0.08	54.58	68.3	-13.72

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Operation Mode :	802.11ac80B3	Test Date :	2017/9/25
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



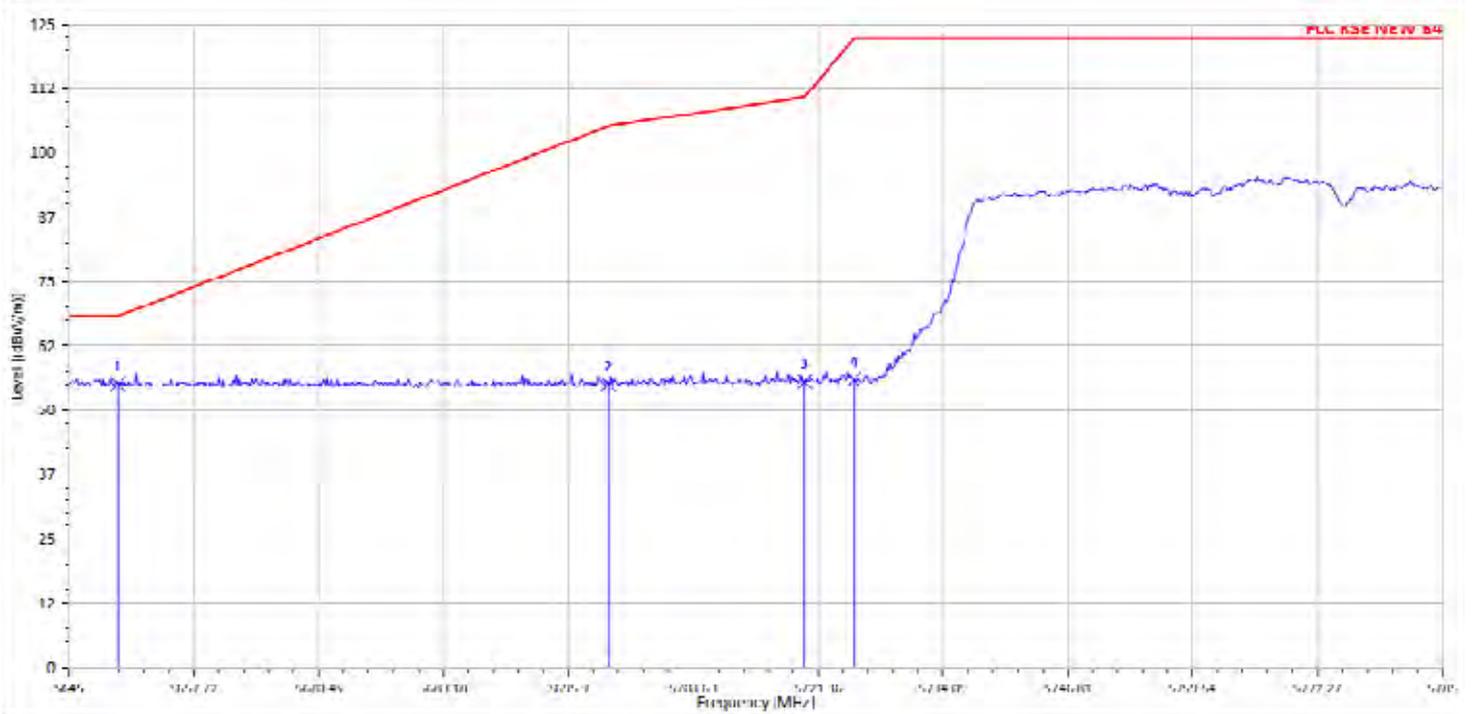
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5470.00	E	Peak	53.53	0.08	53.61	68.3	-14.69

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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Operation Mode :	802.11ac80B4	Test Date :	2017/9/25
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



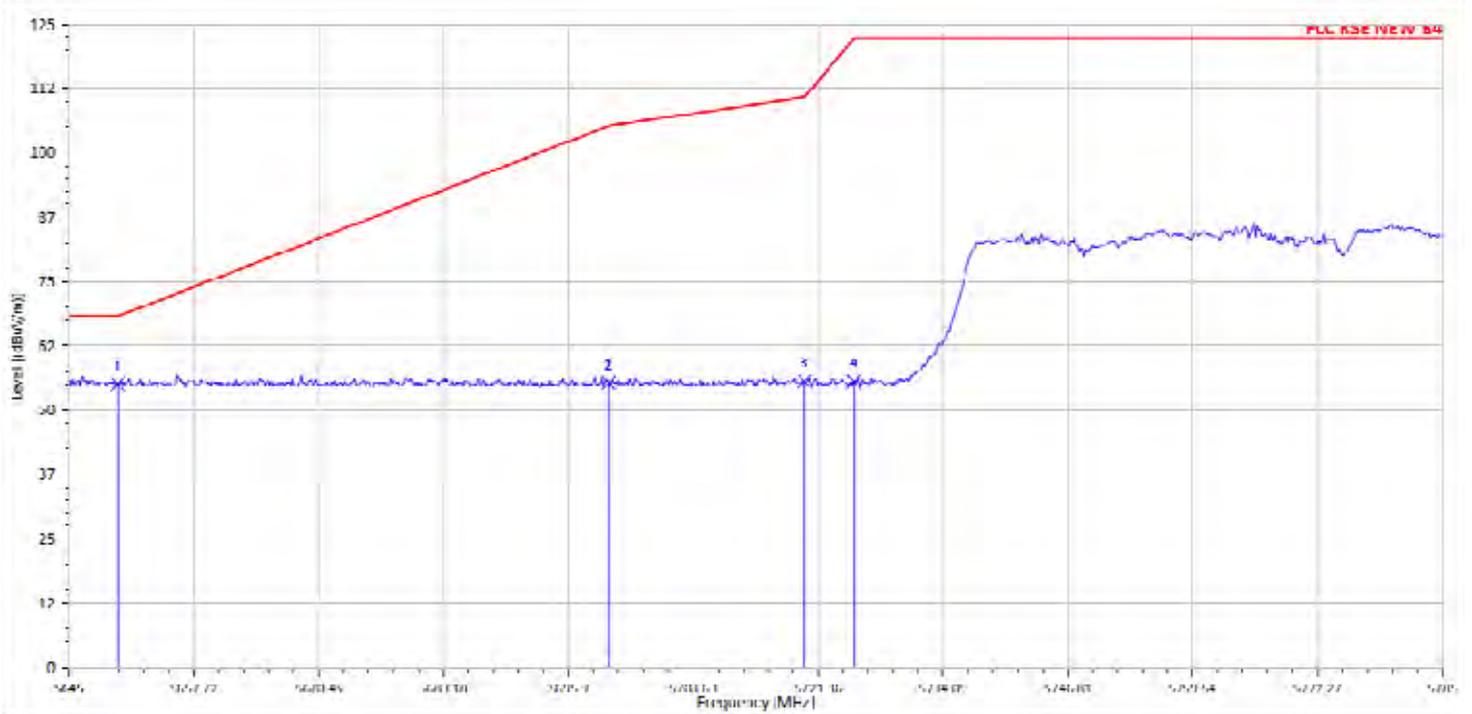
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5650.00	S	Peak	54.41	0.63	55.04	68.23	-13.19
5700.00	S	Peak	54.44	0.56	55.00	105.23	-50.23
5720.00	S	Peak	54.85	0.66	55.51	110.83	-55.32
5725.00	E	Peak	55.24	0.69	55.93	122.23	-66.30

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Operation Mode :	802.11ac80B4	Test Date :	2017/9/25
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



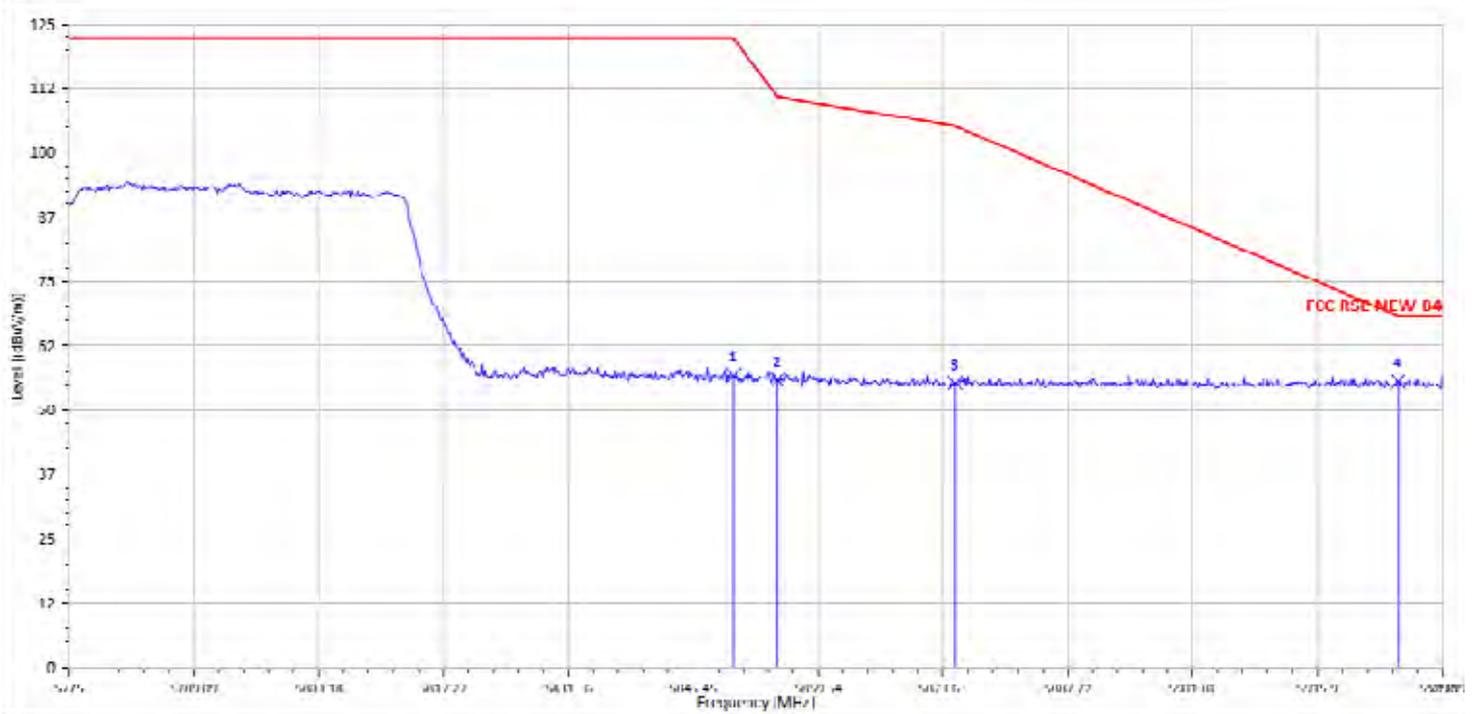
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	54.40	0.63	55.03	68.23	-13.20
5700.00	S	Peak	54.70	0.56	55.26	105.23	-49.97
5720.00	S	Peak	54.97	0.66	55.63	110.83	-55.20
5725.00	E	Peak	54.85	0.69	55.54	122.23	-66.69

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Operation Mode :	802.11ac80B4	Test Date :	2017/9/25
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



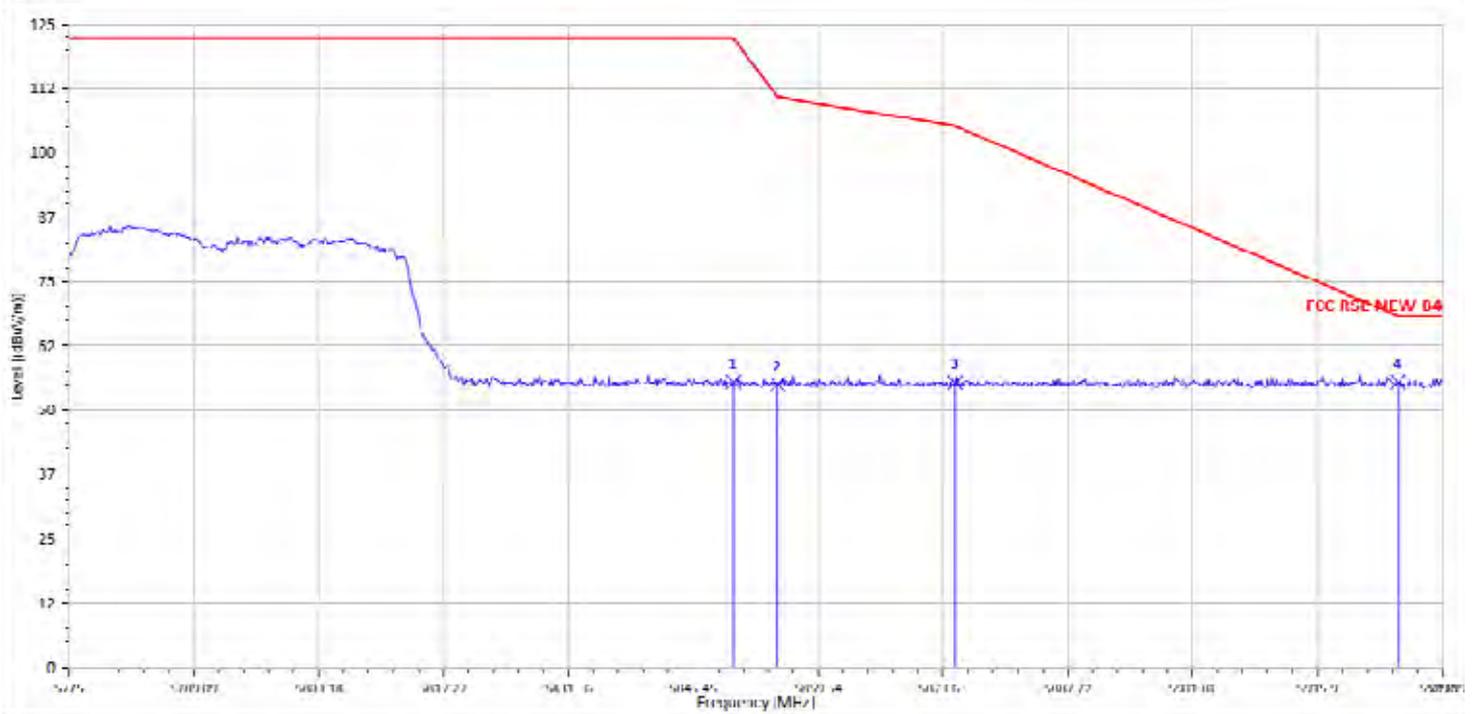
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	55.73	1.01	56.74	122.23	-65.49
5855.00	S	Peak	54.94	1.01	55.94	110.83	-54.89
5875.00	S	Peak	54.26	0.99	55.24	105.23	-49.99
5925.00	S	Peak	54.53	1.04	55.57	68.23	-12.66

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Operation Mode :	802.11ac80B4	Test Date :	2017/9/25
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
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	54.46	1.01	55.47	122.23	-66.76
5855.00	S	Peak	53.99	1.01	55.00	110.83	-55.83
5875.00	S	Peak	54.31	0.99	55.30	105.23	-49.93
5925.00	S	Peak	54.40	1.04	55.44	68.23	-12.79

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## 12 TRANSMISSION IN THE ABSENCE OF DATA

### 12.1 Standard Applicable

According to §15.407(c)

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

### 12.2 Result

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

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### 13 FREQUENCY STABILITY

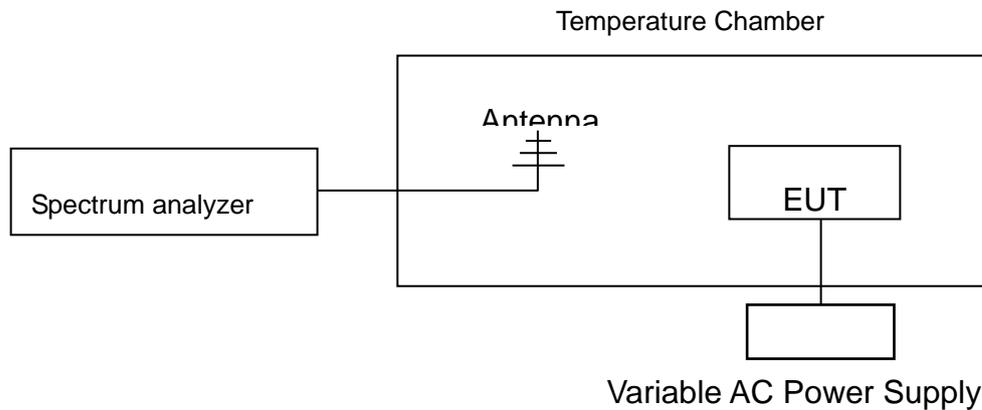
#### 13.1 Standard Applicable

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

#### 13.2 Measurement Procedure

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

#### 13.3 Test SET-UP



#### 13.4 Measurement Equipment Used:

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2016	12/11/2017
DC Block	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018

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### 13.5 Measurement Result

#### Startup:

Operation Mode	802.11 a	Test Date	2017.09.19
Temperature	:23	Test By	Anthony
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.4V	36	5180	5,180.12000	-0.00002317
		44	5220	5,220.12000	-0.00002299
		48	5240	5,240.12000	-0.00002290
		52	5260	5,260.12000	-0.00002281
		60	5300	5,300.12000	-0.00002264
		64	5320	5,320.12000	-0.00002256
		100	5500	5,500.12000	-0.00002182
		116	5580	5,580.12000	-0.00002151
		140	5700	5,700.12000	-0.00002105
		149	5745	5,745.12000	-0.00002089
		157	5785	5,785.12000	-0.00002074
		165	5825	5,825.12000	-0.00002060
	3.4V	36	5180	5,180.12000	-0.00002317
		44	5220	5,220.12000	-0.00002299
		48	5240	5,240.12000	-0.00002290
		52	5260	5,260.12000	-0.00002281
		60	5300	5,300.12000	-0.00002264
		64	5320	5,320.12000	-0.00002256
		100	5500	5,500.12000	-0.00002182
		116	5580	5,580.12000	-0.00002151
		140	5700	5,700.12000	-0.00002105
		149	5745	5,745.12000	-0.00002089
		157	5785	5,785.12000	-0.00002074
		165	5825	5,825.12000	-0.00002060

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25	3.85V	36	5180	5,180.12000	-0.00002317
		44	5220	5,220.12000	-0.00002299
		48	5240	5,240.12000	-0.00002290
		52	5260	5,260.12000	-0.00002281
		60	5300	5,300.12000	-0.00002264
		64	5320	5,320.12000	-0.00002256
		100	5500	5,500.12000	-0.00002182
		116	5580	5,580.12000	-0.00002151
		140	5700	5,700.12000	-0.00002105
		149	5745	5,745.12000	-0.00002089
		157	5785	5,785.12000	-0.00002074
		165	5825	5,825.12000	-0.00002060

55	4.4V	36	5180	5,180.12000	-0.00002317
		44	5220	5,220.12000	-0.00002299
		48	5240	5,240.12000	-0.00002290
		52	5260	5,260.12000	-0.00002281
		60	5300	5,300.12000	-0.00002264
		64	5320	5,320.12000	-0.00002256
		100	5500	5,500.12000	-0.00002182
		116	5580	5,580.12000	-0.00002151
		140	5700	5,700.12000	-0.00002105
		149	5745	5,745.12000	-0.00002089
		157	5785	5,785.12000	-0.00002074
		165	5825	5,825.12000	-0.00002060
	3.4V	36	5180	5,180.12000	-0.00002317
		44	5220	5,220.12000	-0.00002299
		48	5240	5,240.12000	-0.00002290
		52	5260	5,260.12000	-0.00002281
		60	5300	5,300.12000	-0.00002264
		64	5320	5,320.12000	-0.00002256
		100	5500	5,500.12000	-0.00002182
		116	5580	5,580.12000	-0.00002151
		140	5700	5,700.12000	-0.00002105
		149	5745	5,745.12000	-0.00002089
		157	5785	5,785.12000	-0.00002074
		165	5825	5,825.12000	-0.00002060

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Operation Mode	802.11 n_HT40	Test Date	2017.09.19
Temperature	:23	Test By	Anthony
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.4V	38	5190	5,190.10000	-0.00001927
		46	5230	5,230.10000	-0.00001912
		54	5270	5,270.10000	-0.00001898
		62	5310	5,310.10000	-0.00001883
		102	5510	5,510.10000	-0.00001815
		110	5550	5,550.10000	-0.00001802
		134	5670	5,670.10000	-0.00001764
		151	5755	5,755.10000	-0.00001738
		159	5795	5,795.10000	-0.00001726
	3.4V	38	5190	5,190.10000	-0.00001927
		46	5230	5,230.10000	-0.00001912
		54	5270	5,270.10000	-0.00001898
		62	5310	5,310.10000	-0.00001883
		102	5510	5,510.10000	-0.00001815
		110	5550	5,550.10000	-0.00001802
		134	5670	5,670.10000	-0.00001764
		151	5755	5,755.10000	-0.00001738
		159	5795	5,795.10000	-0.00001726

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25	3.85V	38	5190	5,190.10000	-0.00001927
		46	5230	5,230.10000	-0.00001912
		54	5270	5,270.10000	-0.00001898
		62	5310	5,310.10000	-0.00001883
		102	5510	5,510.10000	-0.00001815
		110	5550	5,550.10000	-0.00001802
		134	5670	5,670.10000	-0.00001764
		151	5755	5,755.10000	-0.00001738
		159	5795	5,795.10000	-0.00001726
55	4.4V	38	5190	5,190.10000	-0.00001927
		46	5230	5,230.10000	-0.00001912
		54	5270	5,270.10000	-0.00001898
		62	5310	5,310.10000	-0.00001883
		102	5510	5,510.10000	-0.00001815
		110	5550	5,550.10000	-0.00001802
		134	5670	5,670.10000	-0.00001764
		151	5755	5,755.10000	-0.00001738
		159	5795	5,795.10000	-0.00001726
	3.4V	38	5190	5,190.10000	-0.00001927
		46	5230	5,230.10000	-0.00001912
		54	5270	5,270.10000	-0.00001898
		62	5310	5,310.10000	-0.00001883
		102	5510	5,510.10000	-0.00001815
		110	5550	5,550.10000	-0.00001802
		134	5670	5,670.10000	-0.00001764
		151	5755	5,755.10000	-0.00001738
		159	5795	5,795.10000	-0.00001726

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Operation Mode	802.11 ac_VHT80	Test Date	2017.09.19
Temperature	:23	Test By	Anthony
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.4V	42	5210	5,210.10000	-0.00001919
		58	5290	5,290.10000	-0.00001890
		106	5530	5,530.10000	-0.00001808
		122	5610	5,610.10000	-0.00001783
		155	5775	5,775.10000	-0.00001732
	3.4V	42	5210	5,210.10000	-0.00001919
		58	5290	5,290.10000	-0.00001890
		106	5530	5,530.10000	-0.00001808
		122	5610	5,610.10000	-0.00001783
		155	5775	5,775.10000	-0.00001732
25	3.85V	42	5210	5,210.10000	-0.00001919
		58	5290	5,290.10000	-0.00001890
		106	5530	5,530.10000	-0.00001808
		122	5610	5,610.10000	-0.00001783
		155	5775	5,775.10000	-0.00001732
55	4.4V	42	5210	5,210.10000	-0.00001919
		58	5290	5,290.10000	-0.00001890
		106	5530	5,530.10000	-0.00001808
		122	5610	5,610.10000	-0.00001783
		155	5775	5,775.10000	-0.00001732
	3.4V	42	5210	5,210.10000	-0.00001919
		58	5290	5,290.10000	-0.00001890
		106	5530	5,530.10000	-0.00001808
		122	5610	5,610.10000	-0.00001783
		155	5775	5,775.10000	-0.00001732

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2 Minutes:

Operation Mode	802.11 a	Test Date	2017.09.19
Temperature	:23	Test By	Anthony
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.4V	36	5180	5,180.01910	-0.00000369
		44	5220	5,220.05079	-0.00000973
		48	5240	5,240.04619	-0.00000881
		52	5260	5,260.02668	-0.00000507
		60	5300	5,300.05451	-0.00001028
		64	5320	5,320.00961	-0.00000181
		100	5500	5,500.09811	-0.00001784
		116	5580	5,580.08240	-0.00001477
		140	5700	5,700.02215	-0.00000389
		149	5745	5,745.04616	-0.00000803
		157	5785	5,785.03823	-0.00000661
		165	5825	5,825.09698	-0.00001665
	3.4V	36	5180	5,180.01390	-0.00000268
		44	5220	5,220.07956	-0.00001524
		48	5240	5,240.06083	-0.00001161
		52	5260	5,260.01385	-0.00000263
		60	5300	5,300.02967	-0.00000560
		64	5320	5,320.07191	-0.00001352
		100	5500	5,500.02592	-0.00000471
		116	5580	5,580.02544	-0.00000456
		140	5700	5,700.05321	-0.00000934
		149	5745	5,745.08578	-0.00001493
		157	5785	5,785.02289	-0.00000396
		165	5825	5,825.03924	-0.00000674

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25	3.85V	36	5180	5,180.01096	-0.00000212
		44	5220	5,220.08526	-0.00001633
		48	5240	5,240.02820	-0.00000538
		52	5260	5,260.09310	-0.00001770
		60	5300	5,300.00557	-0.00000105
		64	5320	5,320.00499	-0.00000094
		100	5500	5,500.02506	-0.00000456
		116	5580	5,580.00790	-0.00000142
		140	5700	5,700.01519	-0.00000266
		149	5745	5,745.04266	-0.00000743
		157	5785	5,785.01148	-0.00000198
		165	5825	5,825.00180	-0.00000031
55	4.4V	36	5180	5,180.08059	-0.00001556
		44	5220	5,220.00533	-0.00000102
		48	5240	5,240.03139	-0.00000599
		52	5260	5,260.00697	-0.00000133
		60	5300	5,300.08706	-0.00001643
		64	5320	5,320.08226	-0.00001546
		100	5500	5,500.00271	-0.00000049
		116	5580	5,580.02779	-0.00000498
		140	5700	5,700.09869	-0.00001731
		149	5745	5,745.04500	-0.00000783
		157	5785	5,785.07949	-0.00001374
		165	5825	5,825.00937	-0.00000161
	3.4V	36	5180	5,180.06447	-0.00001245
		44	5220	5,220.00744	-0.00000143
		48	5240	5,240.08828	-0.00001685
		52	5260	5,260.04292	-0.00000816
		60	5300	5,300.00204	-0.00000038
		64	5320	5,320.06356	-0.00001195
		100	5500	5,500.01771	-0.00000322
		116	5580	5,580.04940	-0.00000885
		140	5700	5,700.06174	-0.00001083
		149	5745	5,745.05687	-0.00000990
		157	5785	5,785.09465	-0.00001636
		165	5825	5,825.08381	-0.00001439

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Operation Mode	802.11 n_HT40	Test Date	2017.09.19
Temperature	:23	Test By	Anthony
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.4V	38	5190	5,190.02866	-0.00000552
		46	5230	5,230.06069	-0.00001160
		54	5270	5,270.04118	-0.00000781
		62	5310	5,310.07102	-0.00001337
		102	5510	5,510.06935	-0.00001259
		110	5550	5,550.09294	-0.00001675
		134	5670	5,670.04863	-0.00000858
		151	5755	5,755.02048	-0.00000356
	159	5795	5,795.03321	-0.00000573	
	3.4V	38	5190	5,190.05383	-0.00001037
		46	5230	5,230.02830	-0.00000541
		54	5270	5,270.00135	-0.00000026
		62	5310	5,310.03135	-0.00000590
		102	5510	5,510.05134	-0.00000932
		110	5550	5,550.01689	-0.00000304
		134	5670	5,670.06825	-0.00001204
151		5755	5,755.04468	-0.00000776	
159	5795	5,795.04534	-0.00000782		
25	3.85V	38	5190	5,190.07048	-0.00001358
		46	5230	5,230.03747	-0.00000716
		54	5270	5,270.05702	-0.00001082
		62	5310	5,310.00330	-0.00000062
		102	5510	5,510.08243	-0.00001496
		110	5550	5,550.04897	-0.00000882
		134	5670	5,670.02455	-0.00000433
		151	5755	5,755.08457	-0.00001470
		159	5795	5,795.06958	-0.00001201

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55	4.4V	38	5190	5,190.02473	-0.00000476
		46	5230	5,230.00662	-0.00000127
		54	5270	5,270.08477	-0.00001609
		62	5310	5,310.00497	-0.00000094
		102	5510	5,510.07381	-0.00001340
		110	5550	5,550.04732	-0.00000853
		134	5670	5,670.00602	-0.00000106
		151	5755	5,755.09042	-0.00001571
		159	5795	5,795.05194	-0.00000896
	3.4V	38	5190	5,190.04337	-0.00000836
		46	5230	5,230.03921	-0.00000750
		54	5270	5,270.05928	-0.00001125
		62	5310	5,310.05773	-0.00001087
		102	5510	5,510.09679	-0.00001757
		110	5550	5,550.09119	-0.00001643
		134	5670	5,670.09641	-0.00001700
		151	5755	5,755.04574	-0.00000795
		159	5795	5,795.01382	-0.00000238

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Operation Mode	802.11 ac_VHT80	Test Date	2017.09.19
Temperature	:23	Test By	Anthony
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.4V	42	5210	5,209.95777	0.00000811
		58	5290	5,289.93211	0.00001283
		106	5530	5,529.90888	0.00001648
		122	5610	5,609.99501	0.00000089
		155	5775	5,774.93314	0.00001158
	3.4V	42	5210	5,209.94091	0.00001134
		58	5290	5,289.95277	0.00000893
		106	5530	5,529.97676	0.00000420
		122	5610	5,609.95429	0.00000815
		155	5775	5,774.94836	0.00000894
25	3.85V	42	5210	5,209.91218	0.00001686
		58	5290	5,289.98640	0.00000257
		106	5530	5,529.92809	0.00001300
		122	5610	5,609.95119	0.00000870
		155	5775	5,774.90975	0.00001563
55	4.4V	42	5210	5,209.92456	0.00001448
		58	5290	5,289.98925	0.00000203
		106	5530	5,529.90084	0.00001793
		122	5610	5,609.96913	0.00000550
		155	5775	5,774.92806	0.00001246
	3.4V	42	5210	5,209.97892	0.00000405
		58	5290	5,289.93852	0.00001162
		106	5530	5,529.97316	0.00000485
		122	5610	5,609.95998	0.00000713
		155	5775	5,774.91557	0.00001462

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5 Minutes:

Operation Mode	802.11 a	Test Date	2017.09.19
Temperature	:23	Test By	Anthony
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.4V	36	5180	5,180.01228	-0.00000237
		44	5220	5,220.09542	-0.00001828
		48	5240	5,240.00575	-0.00000110
		52	5260	5,260.00697	-0.00000133
		60	5300	5,300.09440	-0.00001781
		64	5320	5,320.00420	-0.00000079
		100	5500	5,500.01116	-0.00000203
		116	5580	5,580.06444	-0.00001155
		140	5700	5,700.09407	-0.00001650
		149	5745	5,745.02056	-0.00000358
		157	5785	5,785.00748	-0.00000129
		165	5825	5,825.04802	-0.00000824
	3.4V	36	5180	5,180.03590	-0.00000693
		44	5220	5,220.01699	-0.00000325
		48	5240	5,240.07673	-0.00001464
		52	5260	5,260.01212	-0.00000230
		60	5300	5,300.01507	-0.00000284
		64	5320	5,320.01909	-0.00000359
		100	5500	5,500.07002	-0.00001273
		116	5580	5,580.08092	-0.00001450
		140	5700	5,700.09490	-0.00001665
		149	5745	5,745.05222	-0.00000909
		157	5785	5,785.05682	-0.00000982
		165	5825	5,825.03104	-0.00000533

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25	3.85V	36	5180	5,180.03382	-0.00000653
		44	5220	5,220.00184	-0.00000035
		48	5240	5,240.09101	-0.00001737
		52	5260	5,260.00941	-0.00000179
		60	5300	5,300.07057	-0.00001332
		64	5320	5,320.08889	-0.00001671
		100	5500	5,500.00469	-0.00000085
		116	5580	5,580.02615	-0.00000469
		140	5700	5,700.07166	-0.00001257
		149	5745	5,745.06462	-0.00001125
		157	5785	5,785.08834	-0.00001527
		165	5825	5,825.09631	-0.00001653
55	4.4V	36	5180	5,180.07230	-0.00001396
		44	5220	5,220.09148	-0.00001752
		48	5240	5,240.01866	-0.00000356
		52	5260	5,260.04431	-0.00000842
		60	5300	5,300.07117	-0.00001343
		64	5320	5,320.04396	-0.00000826
		100	5500	5,500.01536	-0.00000279
		116	5580	5,580.06487	-0.00001163
		140	5700	5,700.08598	-0.00001508
		149	5745	5,745.07422	-0.00001292
		157	5785	5,785.08498	-0.00001469
		165	5825	5,825.09320	-0.00001600
	3.4V	36	5180	5,180.09094	-0.00001756
		44	5220	5,220.04181	-0.00000801
		48	5240	5,240.04015	-0.00000766
		52	5260	5,260.08345	-0.00001587
		60	5300	5,300.04133	-0.00000780
		64	5320	5,320.02042	-0.00000384
		100	5500	5,500.05958	-0.00001083
		116	5580	5,580.06273	-0.00001124
		140	5700	5,700.07009	-0.00001230
		149	5745	5,745.01491	-0.00000260
		157	5785	5,785.04106	-0.00000710
		165	5825	5,825.00049	-0.00000008

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Operation Mode	802.11 n_HT40	Test Date	2017.09.19
Temperature	:23	Test By	Anthony
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.4V	38	5190	5,190.09642	-0.00001858
		46	5230	5,230.09172	-0.00001754
		54	5270	5,270.02838	-0.00000539
		62	5310	5,310.02048	-0.00000386
		102	5510	5,510.01216	-0.00000221
		110	5550	5,550.02965	-0.00000534
		134	5670	5,670.03406	-0.00000601
		151	5755	5,755.02715	-0.00000472
		159	5795	5,795.03840	-0.00000663
	3.4V	38	5190	5,190.01460	-0.00000281
		46	5230	5,230.09948	-0.00001902
		54	5270	5,270.09350	-0.00001774
		62	5310	5,310.06595	-0.00001242
		102	5510	5,510.09327	-0.00001693
		110	5550	5,550.09350	-0.00001685
		134	5670	5,670.03611	-0.00000637
		151	5755	5,755.05072	-0.00000881
		159	5795	5,795.09295	-0.00001604
25	3.85V	38	5190	5,190.05577	-0.00001075
		46	5230	5,230.05098	-0.00000975
		54	5270	5,270.03740	-0.00000710
		62	5310	5,310.08412	-0.00001584
		102	5510	5,510.01111	-0.00000202
		110	5550	5,550.03014	-0.00000543
		134	5670	5,670.01840	-0.00000325
		151	5755	5,755.06243	-0.00001085
		159	5795	5,795.01015	-0.00000175

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55	4.4V	38	5190	5,190.03958	-0.00000763
		46	5230	5,230.06316	-0.00001208
		54	5270	5,270.06714	-0.00001274
		62	5310	5,310.01903	-0.00000358
		102	5510	5,510.06345	-0.00001152
		110	5550	5,550.06592	-0.00001188
		134	5670	5,670.09378	-0.00001654
		151	5755	5,755.07261	-0.00001262
		159	5795	5,795.00147	-0.00000025
	3.4V	38	5190	5,190.08619	-0.00001661
		46	5230	5,230.03698	-0.00000707
		54	5270	5,270.07257	-0.00001377
		62	5310	5,310.01063	-0.00000200
		102	5510	5,510.02749	-0.00000499
		110	5550	5,550.07599	-0.00001369
		134	5670	5,670.01013	-0.00000179
		151	5755	5,755.02423	-0.00000421
		159	5795	5,795.01648	-0.00000284

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Operation Mode	802.11 ac_VHT80	Test Date	2017.09.19
Temperature	:23	Test By	Anthony
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.4V	42	5210	5,209.99139	0.00000165
		58	5290	5,289.94742	0.00000994
		106	5530	5,529.94537	0.00000988
		122	5610	5,609.93985	0.00001072
		155	5775	5,774.93599	0.00001108
	3.4V	42	5210	5,209.98524	0.00000283
		58	5290	5,289.93575	0.00001215
		106	5530	5,529.92266	0.00001399
		122	5610	5,609.91742	0.00001472
		155	5775	5,774.94539	0.00000946
25	3.85V	42	5210	5,209.95039	0.00000952
		58	5290	5,289.90677	0.00001762
		106	5530	5,529.91383	0.00001558
		122	5610	5,609.97439	0.00000457
		155	5775	5,774.93212	0.00001175
55	4.4V	42	5210	5,209.97640	0.00000453
		58	5290	5,289.94519	0.00001036
		106	5530	5,529.91481	0.00001541
		122	5610	5,609.97913	0.00000372
		155	5775	5,774.93188	0.00001180
	3.4V	42	5210	5,209.97645	0.00000452
		58	5290	5,289.91033	0.00001695
		106	5530	5,529.93566	0.00001163
		122	5610	5,609.93991	0.00001071
		155	5775	5,774.97749	0.00000390

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10 Minutes:

Operation Mode	802.11 a	Test Date	2017.09.19
Temperature	:23	Test By	Anthony
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.4V	36	5180	5,180.08733	-0.00001686
		44	5220	5,220.02643	-0.00000506
		48	5240	5,240.04098	-0.00000782
		52	5260	5,260.09061	-0.00001723
		60	5300	5,300.04045	-0.00000763
		64	5320	5,320.00083	-0.00000016
		100	5500	5,500.02262	-0.00000411
		116	5580	5,580.01780	-0.00000319
		140	5700	5,700.06088	-0.00001068
		149	5745	5,745.09315	-0.00001621
		157	5785	5,785.04507	-0.00000779
		165	5825	5,825.09145	-0.00001570
	3.4V	36	5180	5,180.00285	-0.00000055
		44	5220	5,220.09993	-0.00001914
		48	5240	5,240.09386	-0.00001791
		52	5260	5,260.06078	-0.00001156
		60	5300	5,300.08840	-0.00001668
		64	5320	5,320.04659	-0.00000876
		100	5500	5,500.03713	-0.00000675
		116	5580	5,580.03145	-0.00000564
		140	5700	5,700.06376	-0.00001119
		149	5745	5,745.00772	-0.00000134
		157	5785	5,785.08032	-0.00001388
		165	5825	5,825.07400	-0.00001270

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25	3.85V	36	5180	5,180.00411	-0.00000079
		44	5220	5,220.02593	-0.00000497
		48	5240	5,240.06220	-0.00001187
		52	5260	5,260.03550	-0.00000675
		60	5300	5,300.02366	-0.00000446
		64	5320	5,320.02104	-0.00000395
		100	5500	5,500.01249	-0.00000227
		116	5580	5,580.01437	-0.00000258
		140	5700	5,700.03022	-0.00000530
		149	5745	5,745.01407	-0.00000245
		157	5785	5,785.06619	-0.00001144
		165	5825	5,825.03002	-0.00000515
55	4.4V	36	5180	5,180.06898	-0.00001332
		44	5220	5,220.07988	-0.00001530
		48	5240	5,240.05473	-0.00001044
		52	5260	5,260.06080	-0.00001156
		60	5300	5,300.07495	-0.00001414
		64	5320	5,320.01401	-0.00000263
		100	5500	5,500.02637	-0.00000479
		116	5580	5,580.02502	-0.00000448
		140	5700	5,700.03301	-0.00000579
		149	5745	5,745.02938	-0.00000511
		157	5785	5,785.06574	-0.00001136
		165	5825	5,825.07112	-0.00001221
	3.4V	36	5180	5,180.01984	-0.00000383
		44	5220	5,220.07739	-0.00001483
		48	5240	5,240.07453	-0.00001422
		52	5260	5,260.00947	-0.00000180
		60	5300	5,300.07770	-0.00001466
		64	5320	5,320.03298	-0.00000620
		100	5500	5,500.08155	-0.00001483
		116	5580	5,580.07788	-0.00001396
		140	5700	5,700.02295	-0.00000403
		149	5745	5,745.09755	-0.00001698
		157	5785	5,785.07968	-0.00001377
		165	5825	5,825.06963	-0.00001195

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Operation Mode	802.11 n_HT40	Test Date	2017.09.19
Temperature	:23	Test By	Anthony
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.4V	38	5190	5,190.09468	-0.00001824
		46	5230	5,230.04634	-0.00000886
		54	5270	5,270.06191	-0.00001175
		62	5310	5,310.03620	-0.00000682
		102	5510	5,510.06029	-0.00001094
		110	5550	5,550.08972	-0.00001617
		134	5670	5,670.05129	-0.00000905
		151	5755	5,755.08231	-0.00001430
		159	5795	5,795.09406	-0.00001623
	3.4V	38	5190	5,190.09427	-0.00001816
		46	5230	5,230.01348	-0.00000258
		54	5270	5,270.05884	-0.00001117
		62	5310	5,310.06995	-0.00001317
		102	5510	5,510.05929	-0.00001076
		110	5550	5,550.04168	-0.00000751
		134	5670	5,670.01106	-0.00000195
		151	5755	5,755.06187	-0.00001075
		159	5795	5,795.02500	-0.00000431
25	3.85V	38	5190	5,190.02489	-0.00000480
		46	5230	5,230.07524	-0.00001439
		54	5270	5,270.02611	-0.00000495
		62	5310	5,310.06886	-0.00001297
		102	5510	5,510.02989	-0.00000542
		110	5550	5,550.05177	-0.00000933
		134	5670	5,670.01830	-0.00000323
		151	5755	5,755.05799	-0.00001008
		159	5795	5,795.02487	-0.00000429

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55	4.4V	38	5190	5,190.04296	-0.00000828
		46	5230	5,230.08025	-0.00001534
		54	5270	5,270.04689	-0.00000890
		62	5310	5,310.09319	-0.00001755
		102	5510	5,510.05682	-0.00001031
		110	5550	5,550.02886	-0.00000520
		134	5670	5,670.03916	-0.00000691
		151	5755	5,755.04831	-0.00000839
		159	5795	5,795.05572	-0.00000962
	3.4V	38	5190	5,190.09082	-0.00001750
		46	5230	5,230.07266	-0.00001389
		54	5270	5,270.01119	-0.00000212
		62	5310	5,310.08580	-0.00001616
		102	5510	5,510.07408	-0.00001344
		110	5550	5,550.07928	-0.00001428
		134	5670	5,670.06457	-0.00001139
		151	5755	5,755.05918	-0.00001028
		159	5795	5,795.03196	-0.00000552

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Operation Mode	802.11 ac_VHT80	Test Date	2017.09.19
Temperature	:23	Test By	Anthony
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.4V	42	5210	5,209.93580	0.00001232
		58	5290	5,289.92617	0.00001396
		106	5530	5,529.95010	0.00000902
		122	5610	5,609.94998	0.00000892
		155	5775	5,774.99911	0.00000015
	3.4V	42	5210	5,209.90175	0.00001886
		58	5290	5,289.97240	0.00000522
		106	5530	5,529.98644	0.00000245
		122	5610	5,609.96692	0.00000590
		155	5775	5,774.92457	0.00001306
25	3.85V	42	5210	5,209.98350	0.00000317
		58	5290	5,289.94123	0.00001111
		106	5530	5,529.95132	0.00000880
		122	5610	5,609.90984	0.00001607
		155	5775	5,774.94982	0.00000869
55	4.4V	42	5210	5,209.90356	0.00001851
		58	5290	5,289.91684	0.00001572
		106	5530	5,529.98204	0.00000325
		122	5610	5,609.90491	0.00001695
		155	5775	5,774.97930	0.00000358
	3.4V	42	5210	5,209.99395	0.00000116
		58	5290	5,289.90073	0.00001877
		106	5530	5,529.95507	0.00000812
		122	5610	5,609.95977	0.00000717
		155	5775	5,774.95580	0.00000765

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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.

According to RSS-GEN 8.3

The applicant for equipment certification, as per RSP-100, must provide a list of all antenna types that may be used with the licence-exempt transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna.

Licence-exempt transmitters that have received equipment certification may operate with different types of antennas. However, it is not permissible to exceed the maximum equivalent isotropically radiated power (e.i.r.p.) limits specified in the applicable standard (RSS) for the licence-exempt apparatus.

Testing shall be performed using the highest gain antenna of each combination of licence-exempt transmitter and antenna type, with the transmitter output power set at the maximum level.<sup>9</sup> When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna manufacturer.

### 14.2 Antenna Connected Construction

An embedded-in antenna design is used.

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

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

*~ End of Report ~*

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