

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

**Applicant:** Brother Industries, Ltd.  
15-1, Naeshiro-cho, Mizuho-ku, Nagoya 467-8561, Japan

**Product Name:** Wireless module

**Brand Name:** Brother

**Model No.:** WLS5060B-D250

**Model Difference:** N/A

**FCC ID:** B3Q-WLS5060B-D250

**IC:** 1112C-WLS5060B

**Report No.:** E2/2017/90132

**FCC Rule Part:** §15.407, Cat: NII

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

**Issue Date:** Nov. 17, 2017

**Date of Test:** Sep. 26, 2017 ~ Nov. 13, 2017

**Date of EUT Received:** Sep. 26, 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:**

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**Karen Huang / Clerk**

**Approved By:**

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**Jim Chang / Asst. Manager**



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## Revision History

Report Number	Revision	Description	Issue Date
E2/2017/90133	Rev.00	Initial creation of document	Nov. 17, 2017

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# 1 GENERAL INFORMATION

## 1.1 Product Description

General:

Product Name:	Wireless module
Brand Name:	Brother
Model No.:	WLS5060B-D250
Model Difference:	N/A
Product SW/HW version:	N/A / N/A
Radio SW/HW version:	7.45.47.6 / Rev3
Test SW Version:	N/A
RF power setting in TEST SW:	N/A
Power Supply:	3.3Vdc from Test Kit.

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**FCC WLAN 5GHz:**

Wi-Fi	Frequency Range	Channels	Avg. Power (dBm)	Modulation Technology
11a	5150~5250	4	17.55	OFDM
	5250~5350	4	20.16	
	5470~5725	11	17.25	
	5725-5850	5	19.91	
11n_HT / ac_VHT 20M	5150~5250	4	HT: 17.43	OFDM
	5250~5350	4	HT: 19.64	
	5470~5725	11	HT: 15.84	
	5725-5850	5	HT: 18.85	
11n_HT / ac_VHT 40M	5150~5250	2	HT: 16.26	OFDM
	5250~5350	2	HT: 14.61	
	5470~5725	5	HT: 22.78	
	5725-5850	2	HT: 17.57	
11ac VHT80M	5150~5250	1	16.60	OFDM
	5250~5350	1	14.48	
	5470~5725	2	13.23	
	5725-5850	1	17.18	

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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	19.83	OFDM
	5260~5320	4	Avg.	20.16	
	5500~5580	5	Avg.	17.25	
	5660~5700	3	Avg.	16.82	
	5745~5825	5	Avg.	19.91	
11n_HT / ac_VHT 20M	5180~5240	4	EIRP	HT: 19.71	OFDM
	5260~5320	4	Avg.	HT: 19.64	
	5500~5580	5	Avg.	HT: 15.84	
	5660~5700	3	Avg.	HT: 15.30	
	5745~5825	5	Avg.	HT: 18.85	
11n_HT / ac_VHT 40M	5190~5230	2	EIRP	HT: 18.54	OFDM
	5270~5310	2	Avg.	HT: 14.61	
	5510~5550	2	Avg.	HT: 14.65	
	5670~5670	1	Avg.	HT: 22.78	
	5755~5795	2	Avg.	HT: 17.57	
11ac VHT80M	5210~5210	1	EIRP	18.88	OFDM
	5290~5290	1	Avg.	14.48	
	5530~5530	1	Avg.	13.23	
	5775~5775	1	Avg.	17.18	
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 Peak Gain: 2.28dBi 5250~5350MHz Peak Gain: 2.28dBi 5470~5725MHz Peak Gain: 3.46dBi 5725~5850MHz Peak Gain: 2.75dBi			

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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 and Designation number are: 735305 / TW0002

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 and attenuator.

#### Offset :

SISO mode offset = RF cable loss (dB)+ attenuation factor(dB) =11.2(dB)

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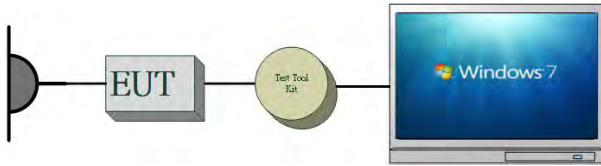
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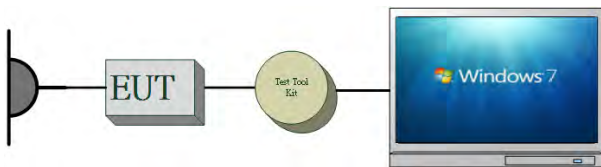


## 2.5 Configuration of Tested System

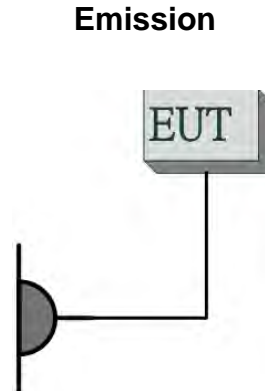
**Fig. 2-1 Radiated Emission**



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



**Fig. 2-3 Conducted (Antenna Port) Emission**



**Table 2-1 Equipment Used in Tested System**

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

#### 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	SISO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	SISO
802.11a	5500~5700	100 to 140	100,116,140,	OFDM	6	SISO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	SISO
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	SISO
802.11n_HT20				OFDM	MCS0	SISO
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	SISO
802.11ac_VHT80	5210	42	42	OFDM	MCS0	SISO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	SISO
802.11n_HT20				OFDM	MCS0	SISO
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS0	SISO
802.11ac_VHT80	5290	58	58	OFDM	MCS0	SISO

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MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5500~5700	100 to 140	100,116,140	OFDM	6	SISO
802.11n_HT20				OFDM	MCS0	SISO
802.11n_HT40	5510~5670	102 to 134	102,110,134	OFDM	MCS0	SISO
802.11ac_VHT80	5530~5610	106 to 122	106,122	OFDM	MCS0	SISO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	SISO
802.11n_HT20				OFDM	MCS0	SISO
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS0	SISO
802.11ac_VHT80	5775	155	155	OFDM	MCS0	SISO

**Note:**

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

**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	SISO
802.11n_HT20				OFDM	MCS0	SISO
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	SISO
802.11ac_VHT80	5210	42	42	OFDM	MCS0	SISO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	SISO
802.11n_HT20				OFDM	MCS0	SISO
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS0	SISO
802.11ac_VHT80	5290	58	58	OFDM	MCS0	SISO
802.11a	5500~5700	100 to 140	100,116,140	OFDM	6	SISO
802.11n_HT20				OFDM	MCS0	SISO
802.11n_HT40	5510~5670	102 to 134	102,110,134	OFDM	MCS0	SISO
802.11ac_VHT80	5530~5610	106 to 122	106,122	OFDM	MCS0	SISO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	SISO
802.11n_HT20				OFDM	MCS0	SISO
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS0	SISO
802.11ac_VHT80	5775	155	155	OFDM	MCS0	SISO

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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.

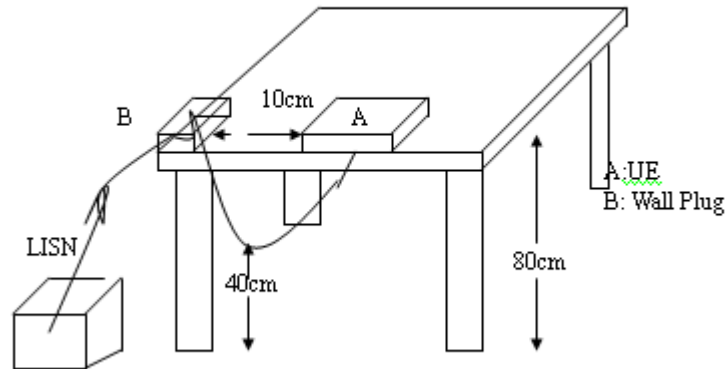
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## 6.4 Test SET-UP



## 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.

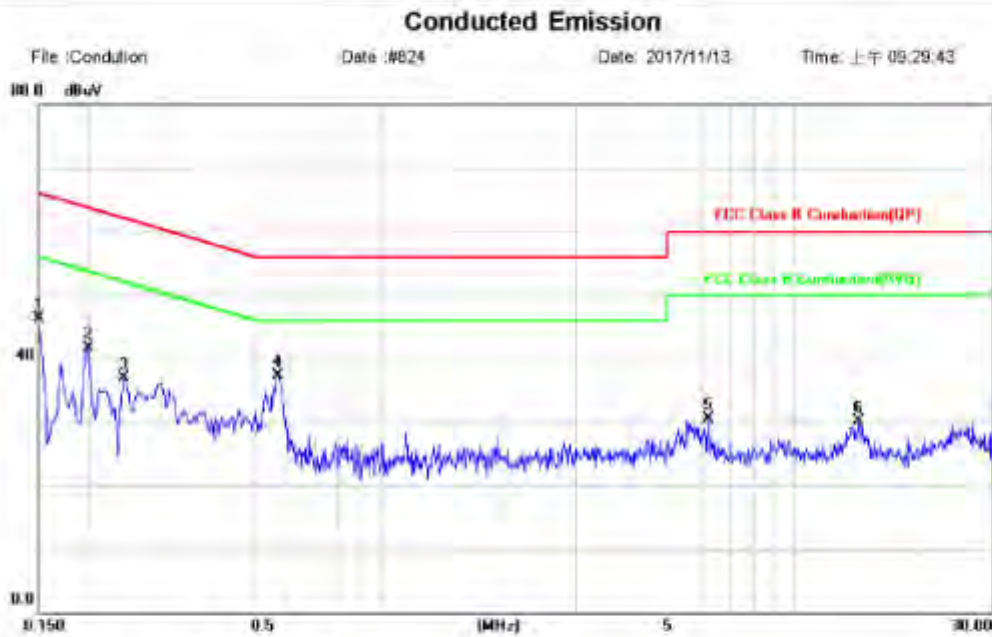
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### 6.6 Measurement Result

Site : Conduction Room	Phase: <b>L1</b>	Temperature: 23°C
Limit: FCC Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 70%
Mode:		
Note:		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	26.61	19.65	46.26	66.00	-19.74	peak	
2		0.1980	22.07	-19.64	41.71	63.69	-21.98	peak	
3		0.2420	17.24	19.71	36.95	62.03	-25.08	peak	
4 *		0.5700	17.30	20.10	37.40	56.00	-18.60	peak	
5		6.2220	10.34	20.09	30.43	60.00	-29.57	peak	
6		14.4340	10.04	20.14	30.18	60.00	-29.82	peak	

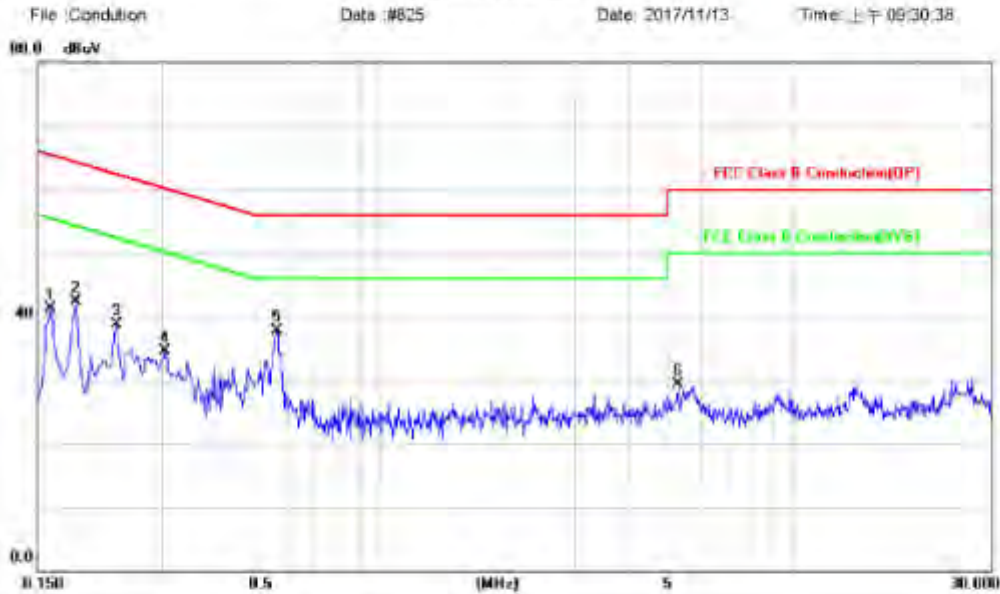
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Site : Conduction Room      Phase: **N**      Temperature: 23 °C  
 Limit: FCC Class B Conduction(QP)      Power: AC 120V/60Hz      Humidity: 70 %  
 Mode:  
 Note:

### Conducted Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1620	21.54	19.50	41.04	65.36	-24.32	peak	
2		0.1860	22.89	19.49	42.38	64.21	-21.83	peak	
3		0.2340	19.14	19.55	38.69	62.31	-23.62	peak	
4		0.3060	14.76	19.67	34.43	60.08	-25.65	peak	
5 *		0.5700	17.82	19.96	37.78	58.00	-18.22	peak	
6		5.2980	9.36	19.95	29.31	60.00	-30.69	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	95.29	0.21
802.11n_20	94.95	0.22
802.11ac_20	95.03	0.22
802.11n_40	90.32	0.44
802.11ac_40	95.03	0.22
802.11ac_80	90.41	0.44

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## DUTY CYCLE TEST SIGNAL Measurement Result 802.11a



## 802.11n HT20



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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

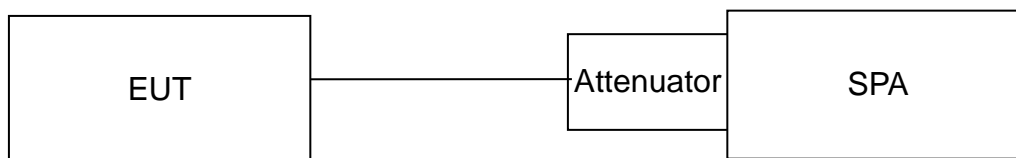
### 8.2 Measurement Procedure

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)
5180	21.61	13.346
5220	21.25	13.274
5240	21.22	13.267
5260	21.15	13.253
5300	21.47	13.318
5320	29.17	14.649
5500	20.80	13.181
5580	20.84	13.188
5700	21.44	13.313

#### 802.11a\_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.83	11.993
5785	16.31	12.125
5825	16.30	12.123

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**802.11n\_HT20\_Main**

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	22.45	13.512
5220	22.02	13.428
5240	21.94	13.412
5260	21.71	13.367
5300	21.71	13.366
5320	27.51	14.395
5500	21.31	13.286
5580	21.60	13.345
5700	21.35	13.294

**802.11n\_HT20\_Main**

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.59	12.198
5785	17.30	12.379
5825	17.18	12.349

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**802.11n\_HT40\_Main**

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	41.11	16.140
5230	39.72	15.991
5270	39.51	15.967
5310	39.57	15.974
5510	39.51	15.967
5550	<b>44.83</b>	16.515
5670	50.00	16.990

**802.11n\_HT40\_Main**

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	34.78	15.413
5795	35.35	15.483

**802.11ac\_VHT80\_Main**

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	82.32	19.155
5290	80.74	19.071
5530	90.94	19.587
5610	90.52	19.567

**802.11ac\_VHT80\_Main**

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.27	18.766

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## 99% Bandwidth

### 802.11a\_Main

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.778	12.247
5220	16.807	12.255
5240	16.807	12.255
5260	16.760	12.243
5300	16.753	12.241
5320	17.236	12.364
5500	16.770	12.245
5580	16.772	12.246
5700	16.754	12.241

### 802.11a\_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.45	12.161
5785	16.28	12.115
5825	16.08	12.064

### 802.11n\_HT20\_Main

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	17.927	12.535
5220	17.822	12.510
5240	17.946	12.540
5260	17.880	12.524
5300	17.915	12.532
5320	18.039	12.562
5500	17.929	12.536
5580	17.868	12.521
5700	17.881	12.524

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**802.11n\_HT20\_Main**

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.59	12.453
5785	17.38	12.400
5825	17.30	12.381

**802.11n\_HT40\_Main**

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	36.110	15.576
5230	36.087	15.574
5270	36.109	15.576
5310	36.078	15.572
5510	36.124	15.578
5550	36.116	15.577
5670	39.793	15.998

**802.11n\_HT40\_Main**

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	36.23	15.591
5795	36.29	15.598

**802.11ac\_VHT80\_Main**

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	75.481	18.778
5290	75.361	18.771
5530	75.382	18.773

**802.11ac\_VHT80\_Main**

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.56	18.783

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99% BW to prove that all signals in band I is no over band I

#### 802.11a\_Main

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.31	< 5250

#### 802.11n\_HT 20 Main

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.94	< 5250

#### 802.11n\_HT 40 Main

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5230	5248.09	< 5250

#### 802.11VHT\_ac80 Main

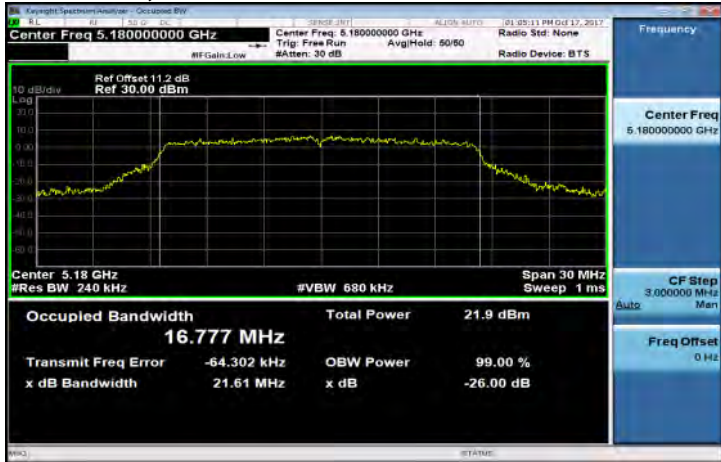
Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5210	5247.84	< 5250

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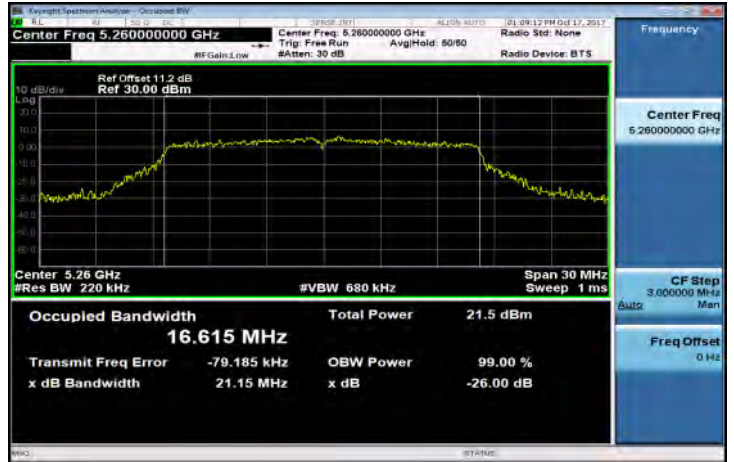
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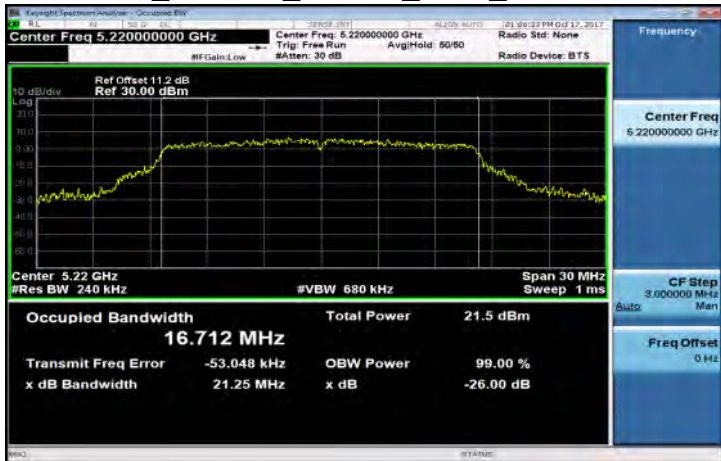
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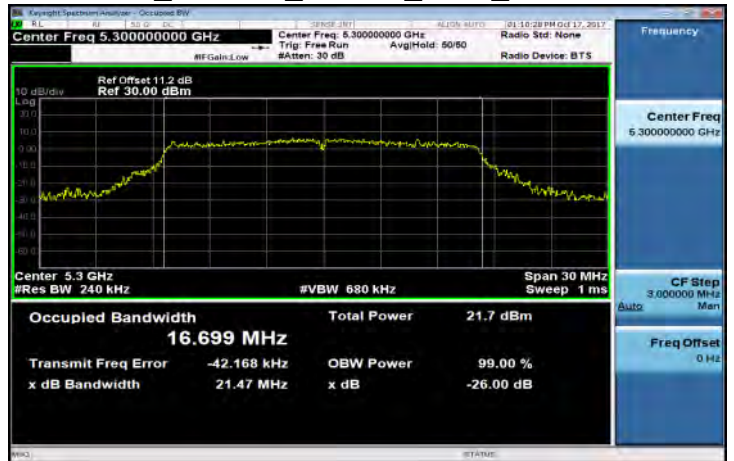
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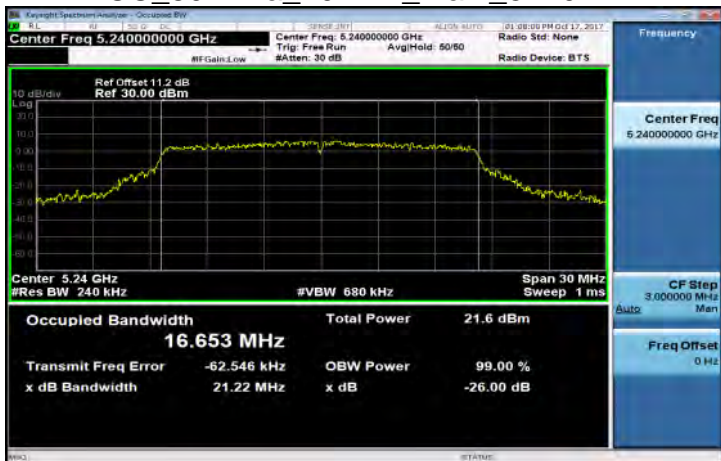
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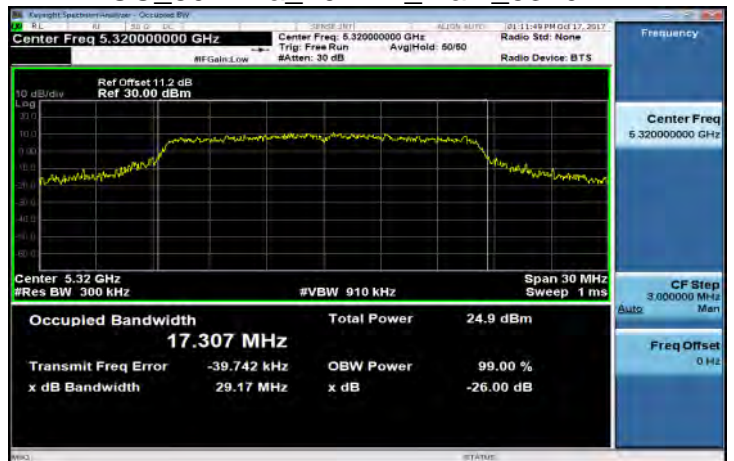
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FCC\_802.11a\_20MHz\_Main\_5240MHz



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

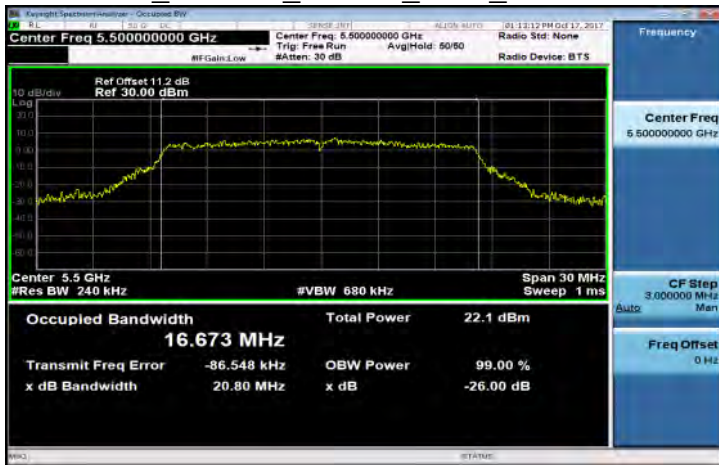


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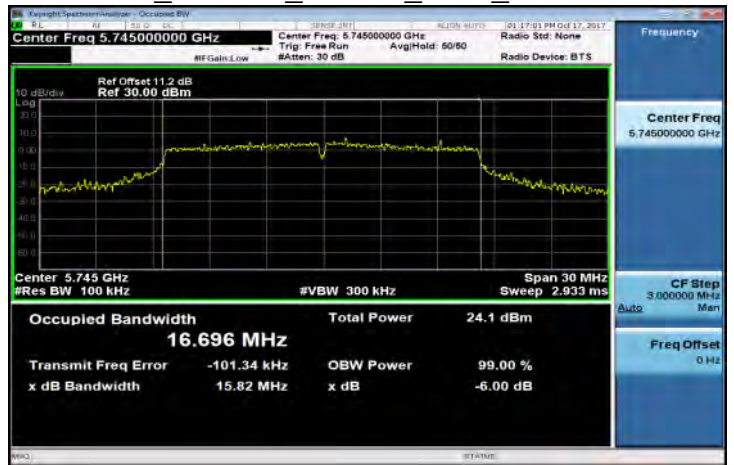
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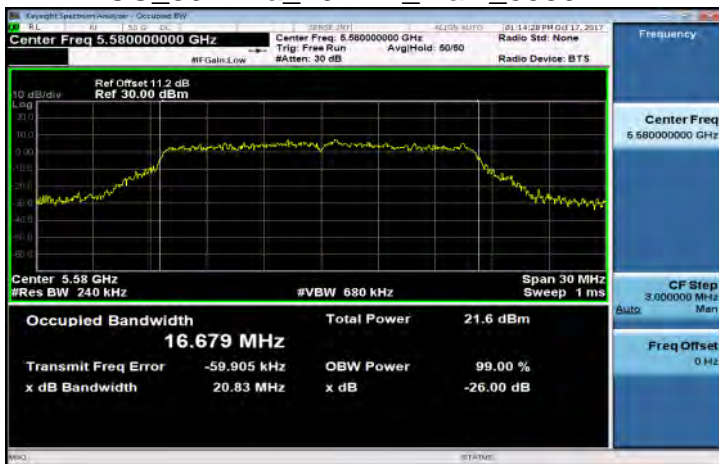
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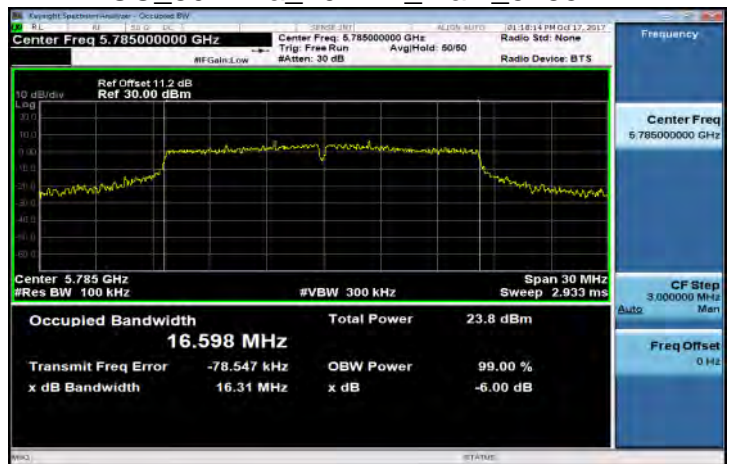
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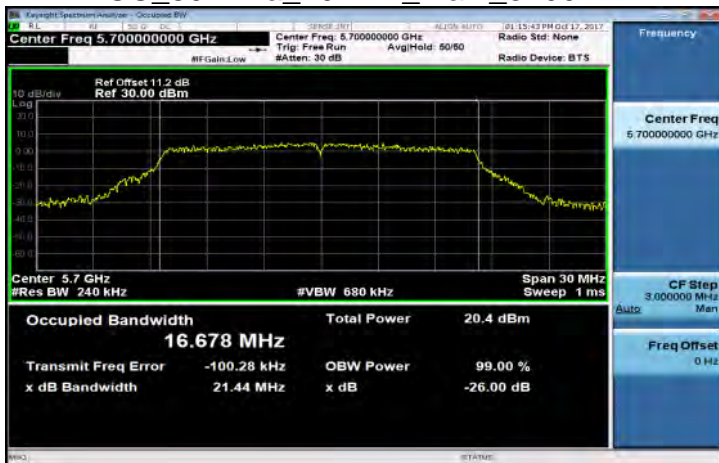
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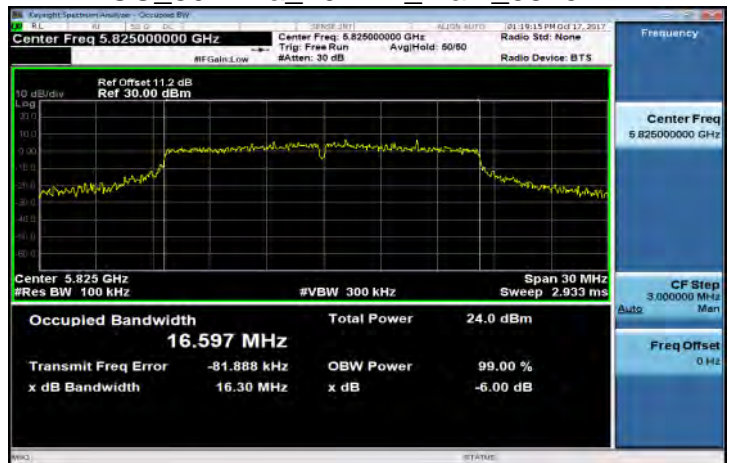
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FCC\_802.11a\_20MHz\_Main\_5700MHz



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

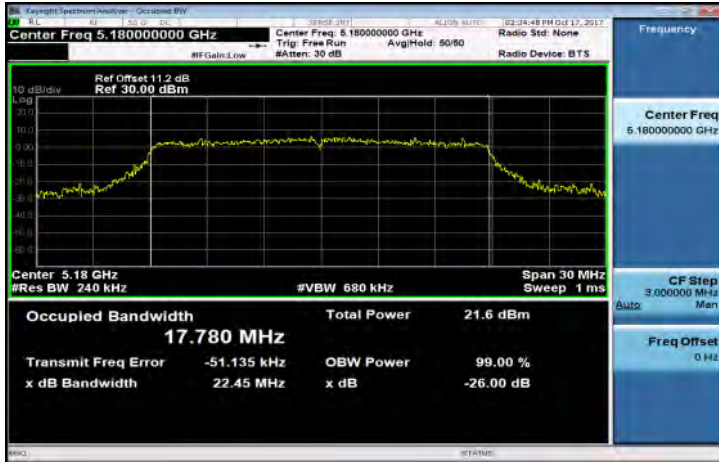


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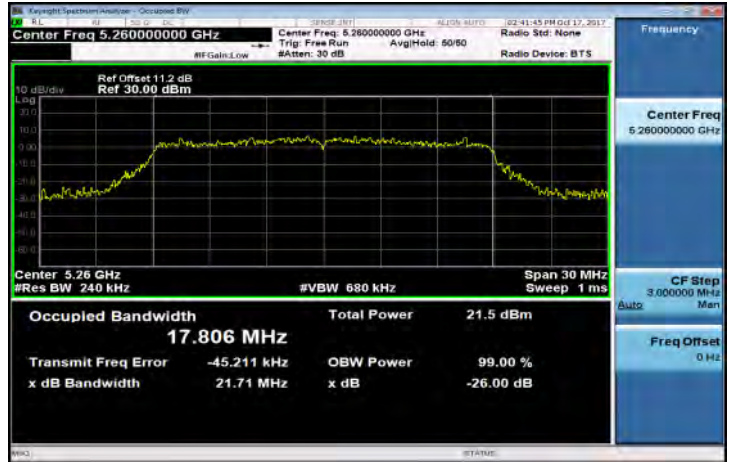
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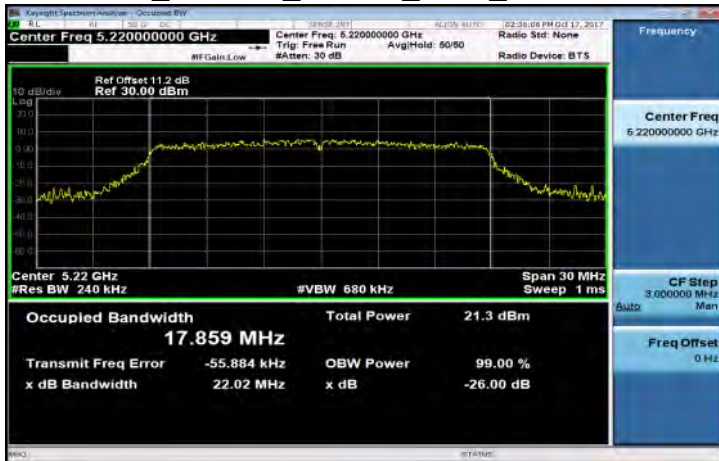
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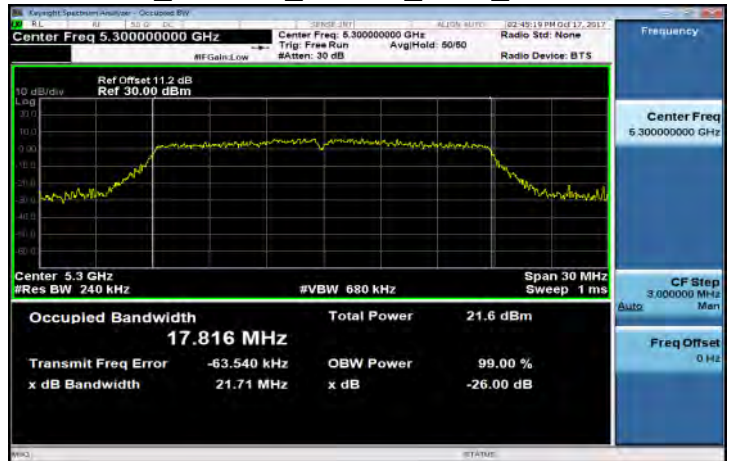
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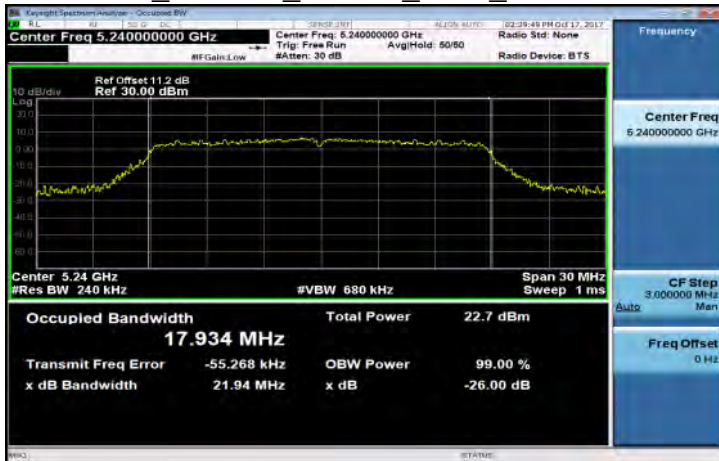
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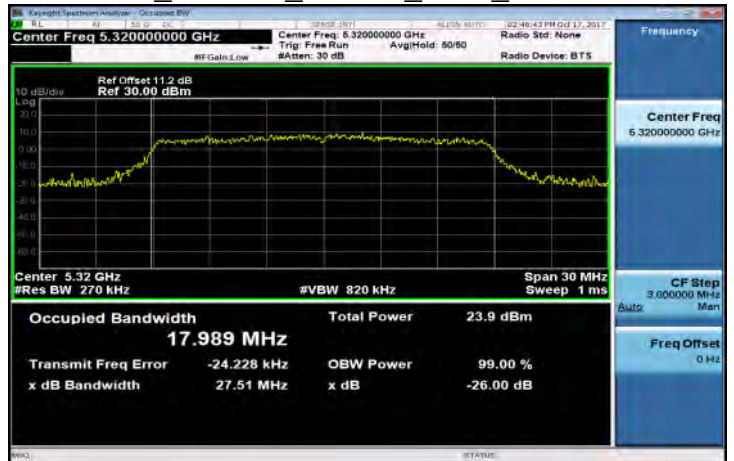
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FCC\_802.11n\_20MHz\_Main\_5240MHz



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



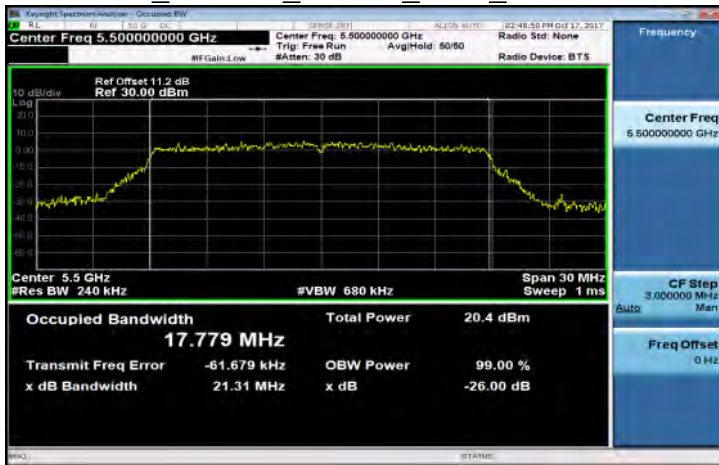
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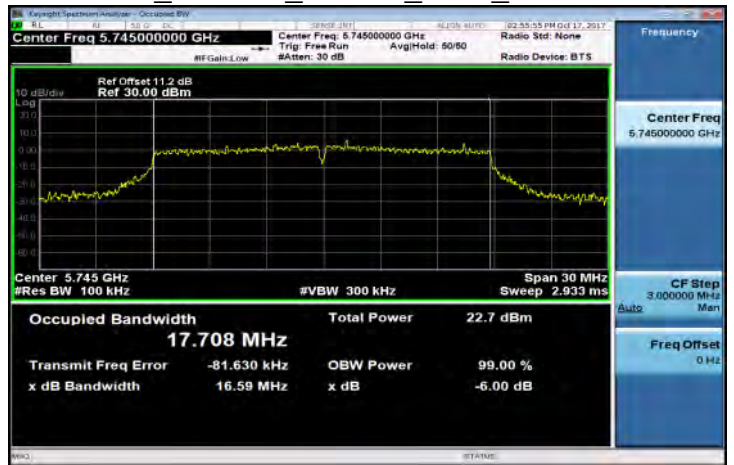
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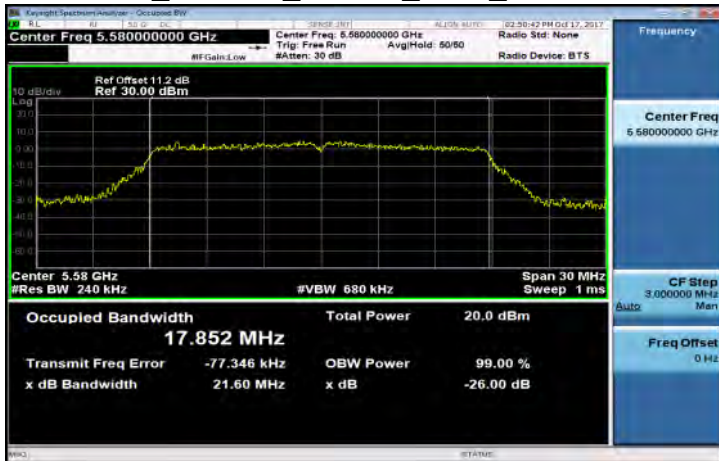
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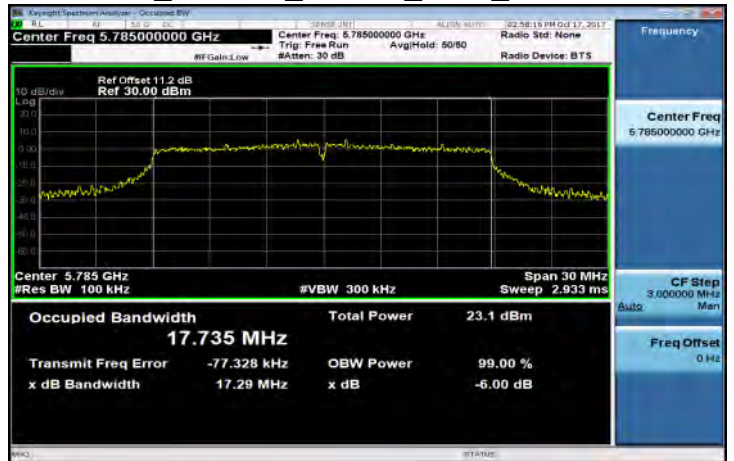
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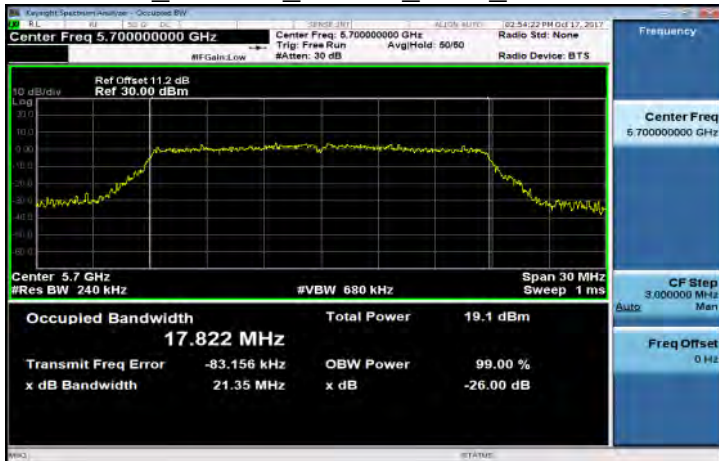
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FCC\_802.11n\_20MHz\_Main\_5785MHz



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



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

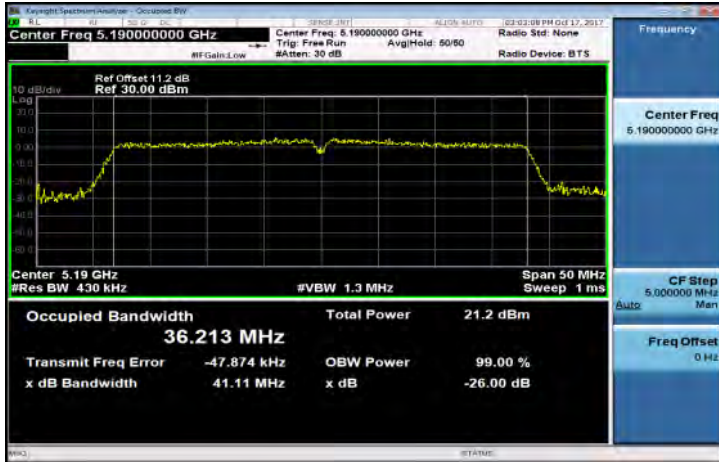


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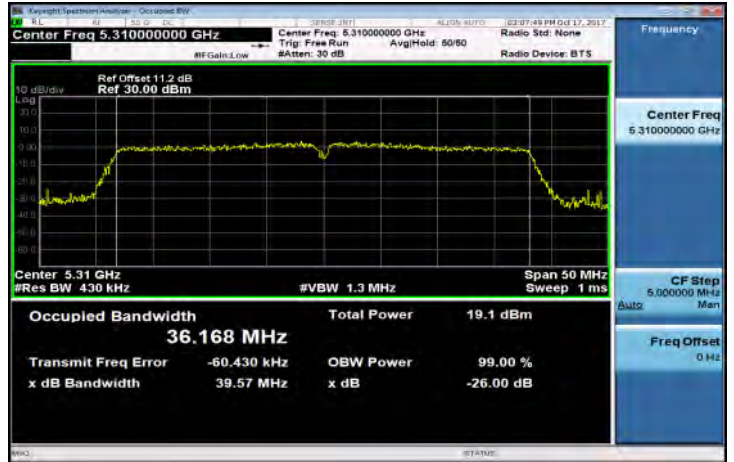
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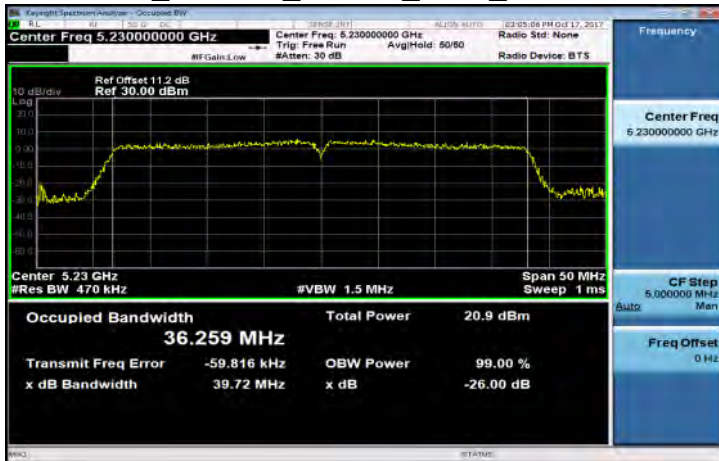
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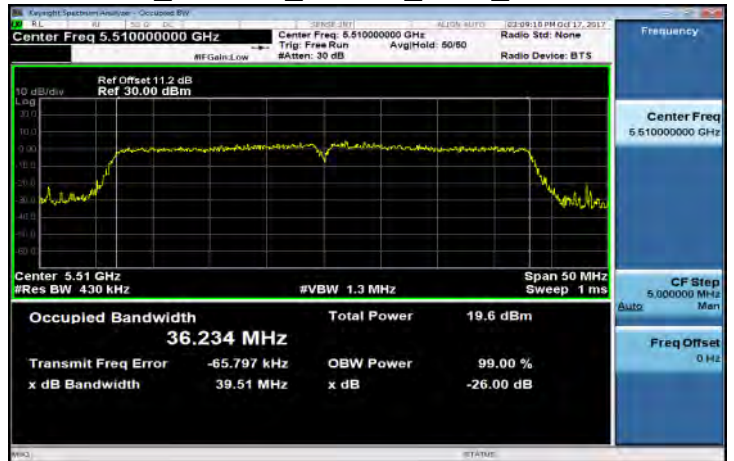
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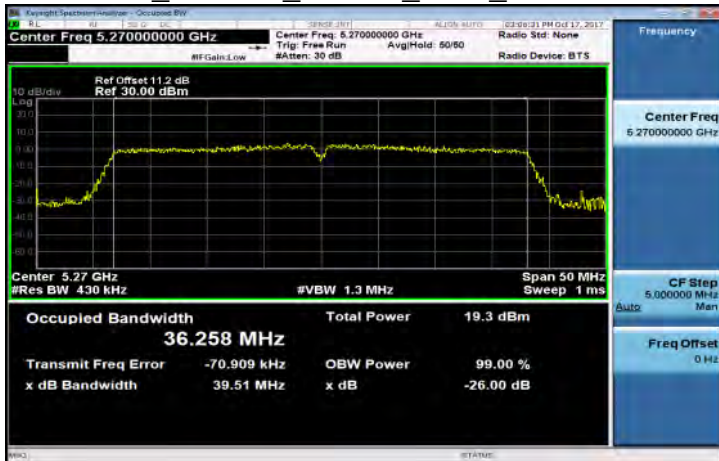
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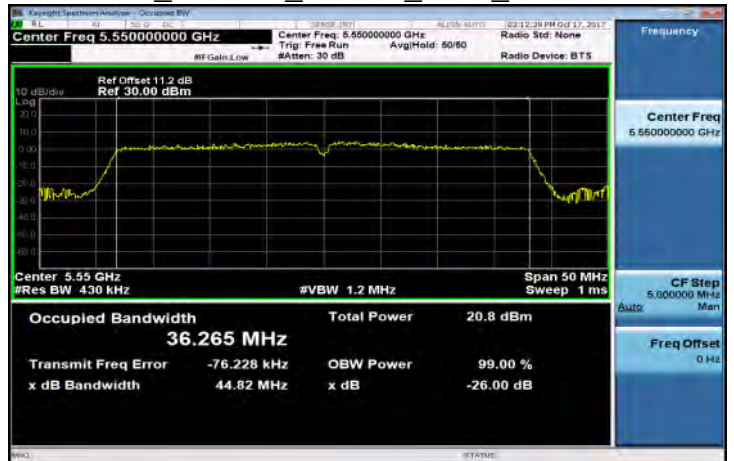
FCC\_802.11n\_40MHz\_Main\_5510MHz



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



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

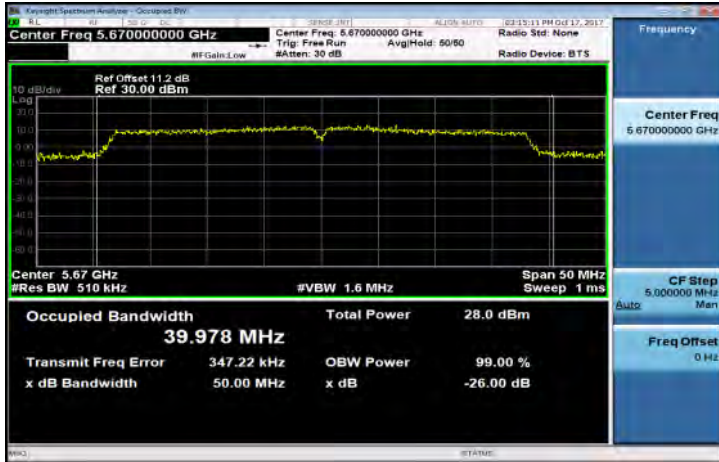


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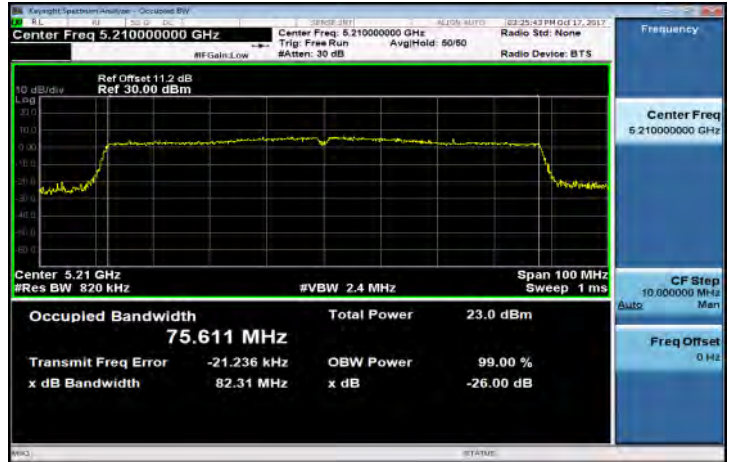
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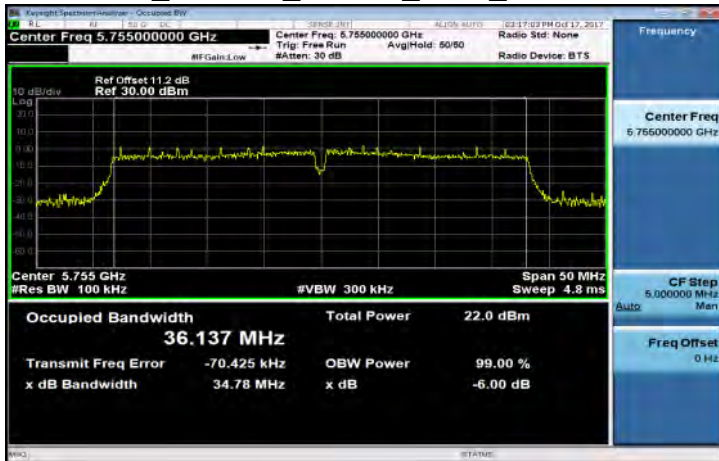
FCC\_802.11n\_40MHz\_Main\_5670MHz



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



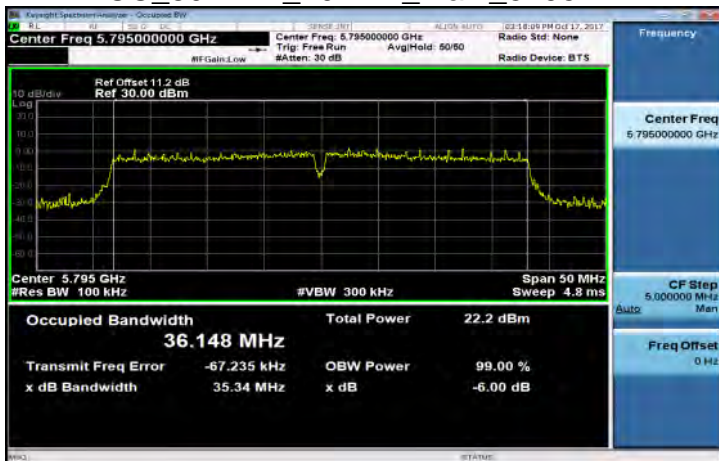
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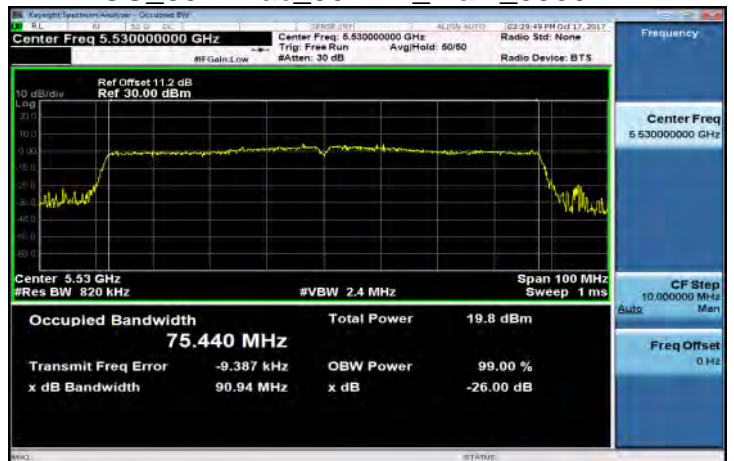
FCC\_802.11ac\_80MHz\_Main\_5290MHz



FCC\_802.11n\_40MHz\_Main\_5795MHz



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

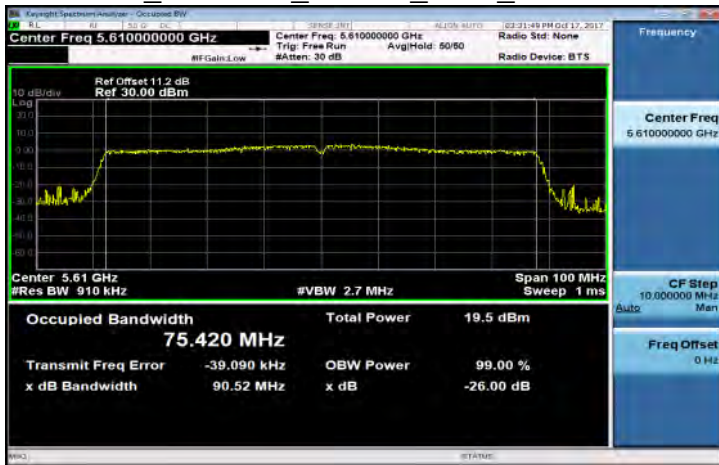


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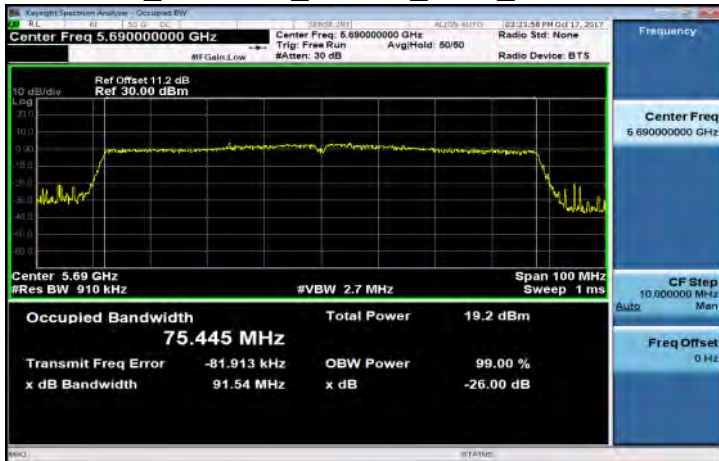
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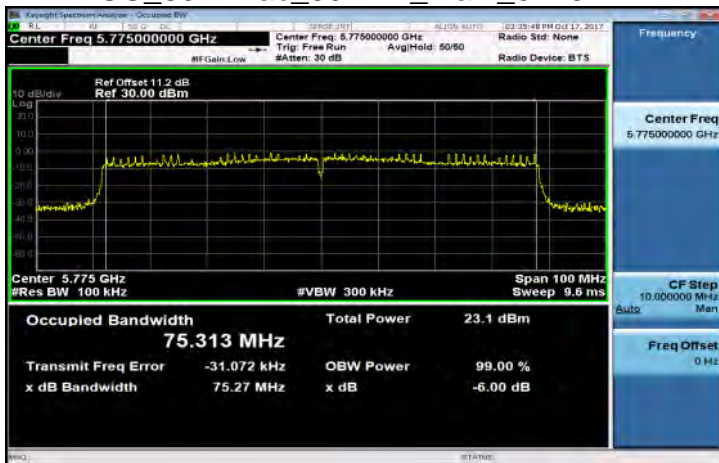
### FCC\_802.11ac\_80MHz\_Main\_5610MHz



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



### FCC\_802.11ac\_80MHz\_Main\_5775MHz

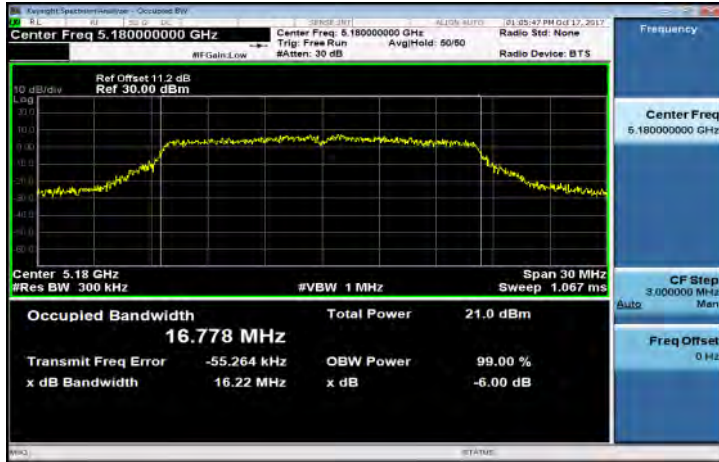


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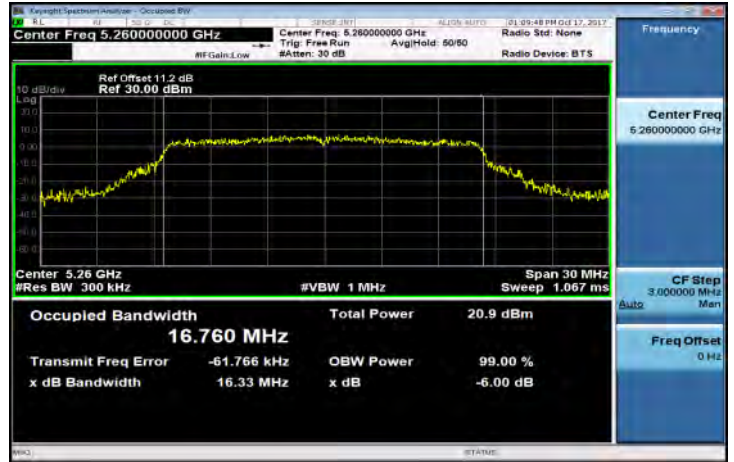
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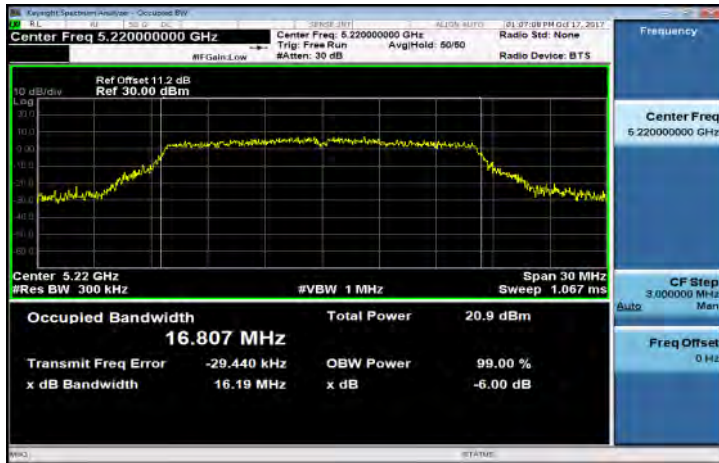
For 99%, IC\_802.11a\_20MHz\_Main\_5180MHz



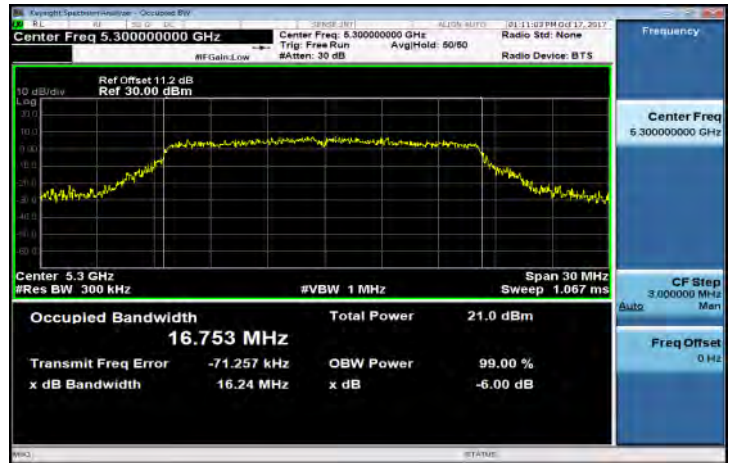
IC\_802.11a\_20MHz\_Main\_5260MHz



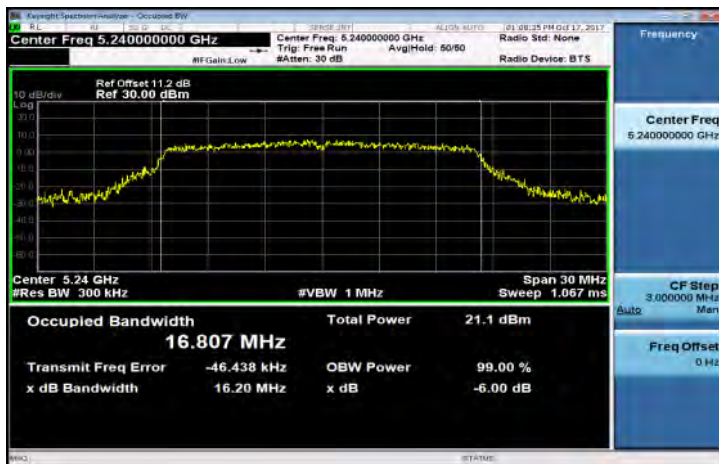
IC\_802.11a\_20MHz\_Main\_5220MHz



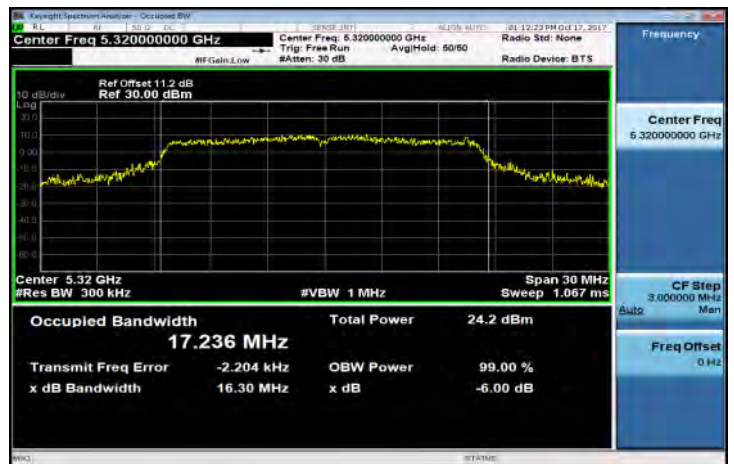
IC\_802.11a\_20MHz\_Main\_5300MHz



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



IC\_802.11a\_20MHz\_Main\_5320MHz

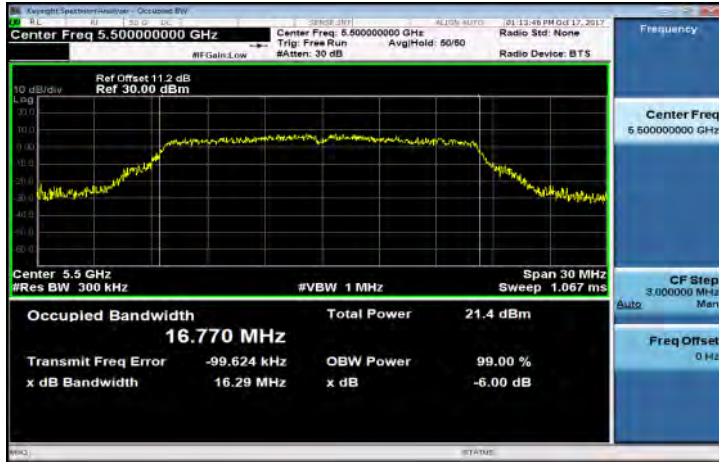


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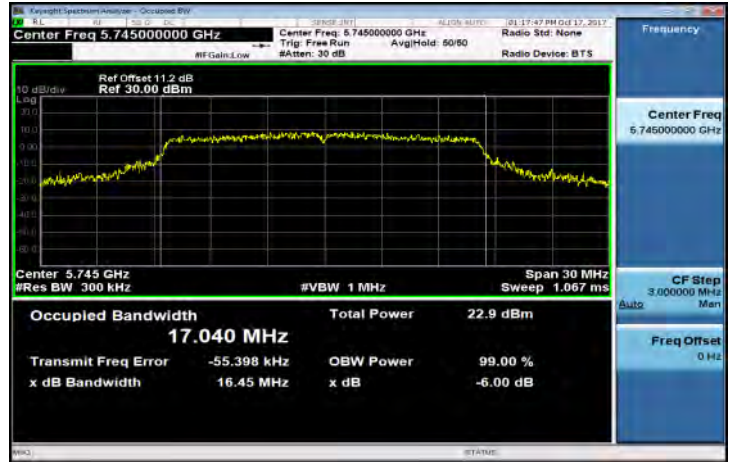
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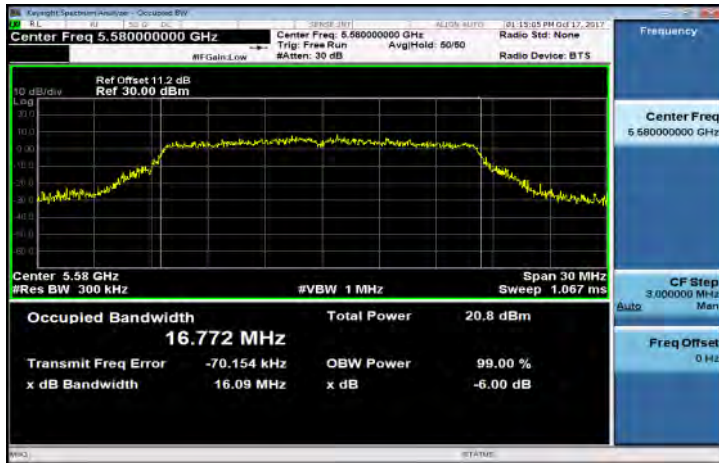
IC\_802.11a\_20MHz\_Main\_5500MHz



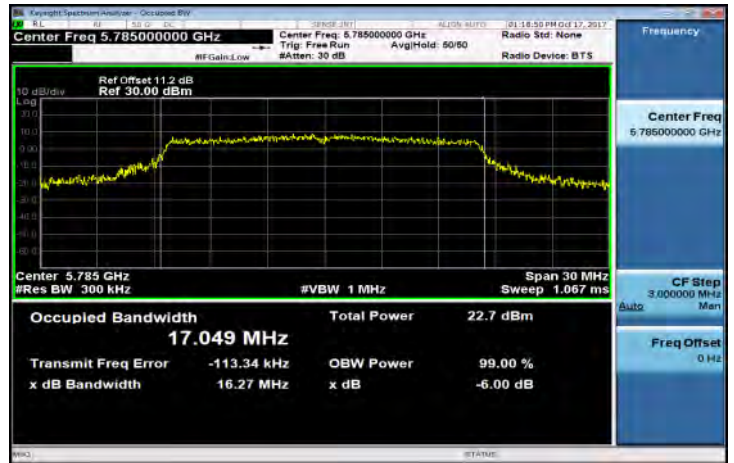
IC\_802.11a\_20MHz\_Main\_5745MHz



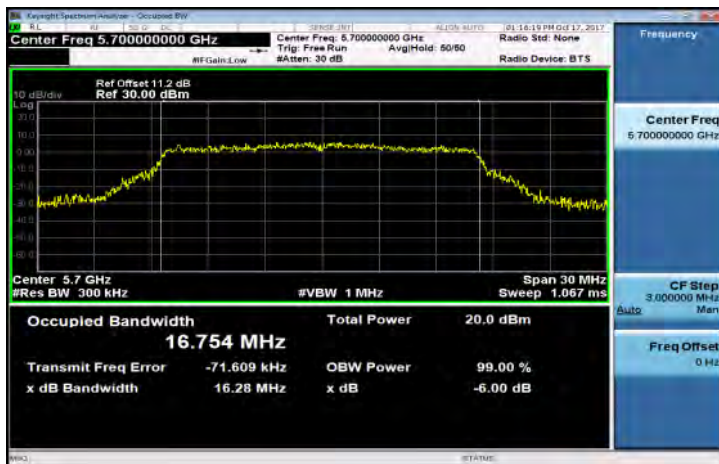
IC\_802.11a\_20MHz\_Main\_5580MHz



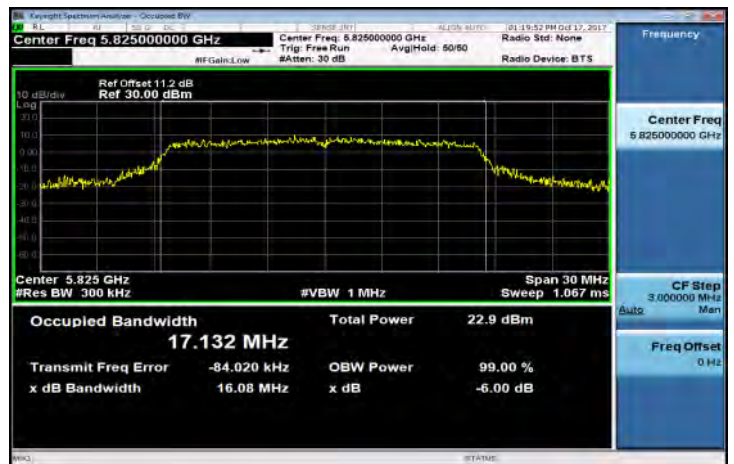
IC\_802.11a\_20MHz\_Main\_5785MHz



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



IC\_802.11a\_20MHz\_Main\_5825MHz

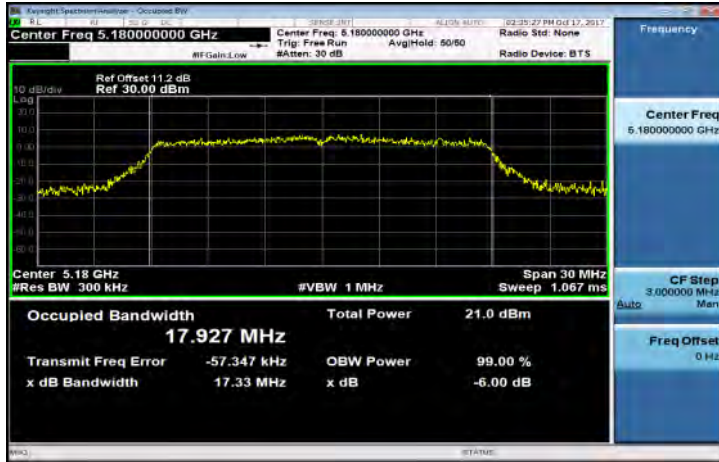


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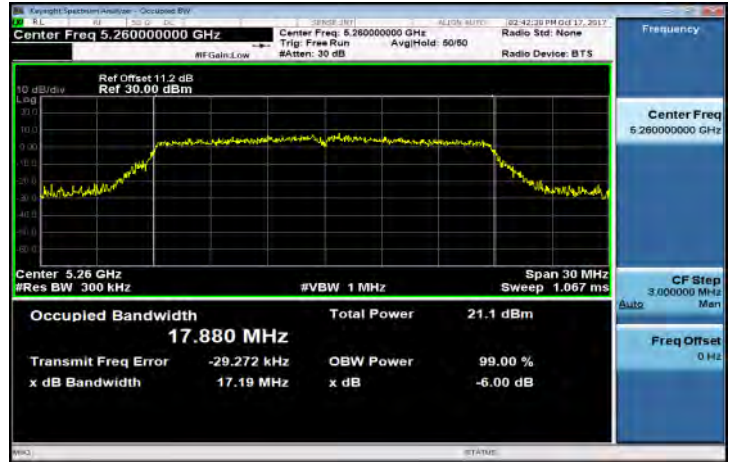
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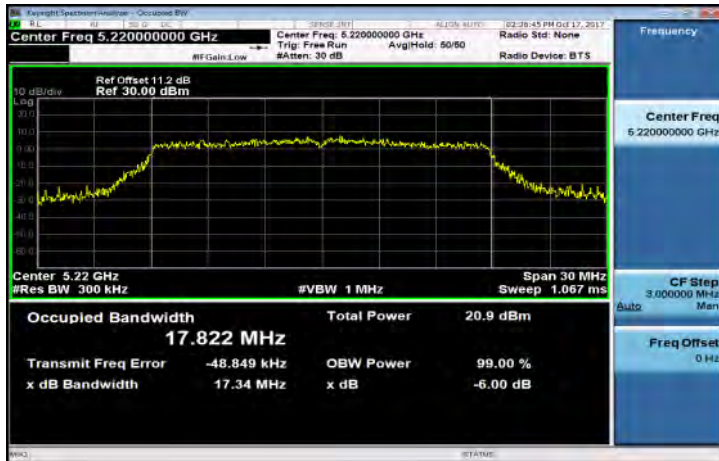
IC\_802.11n\_20MHz\_Main\_5180MHz



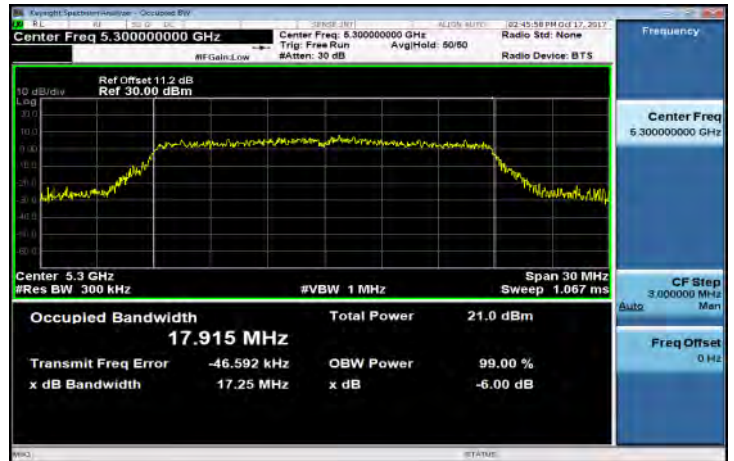
IC\_802.11n\_20MHz\_Main\_5260MHz



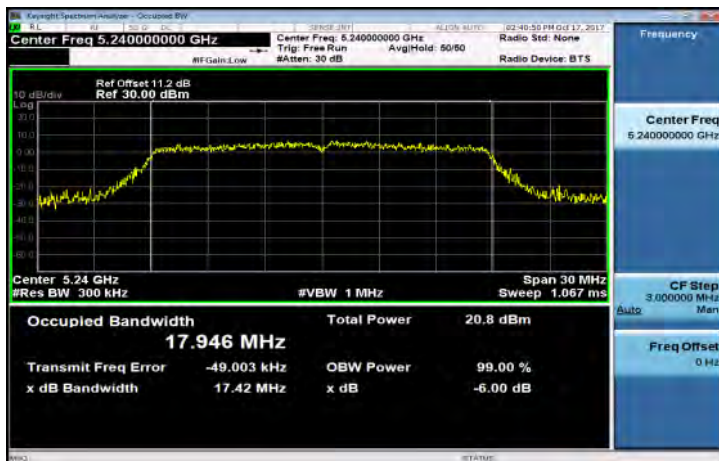
IC\_802.11n\_20MHz\_Main\_5220MHz



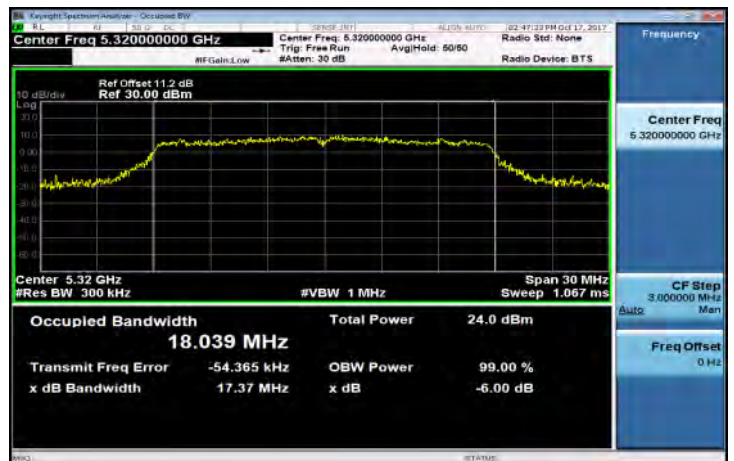
IC\_802.11n\_20MHz\_Main\_5300MHz



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



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

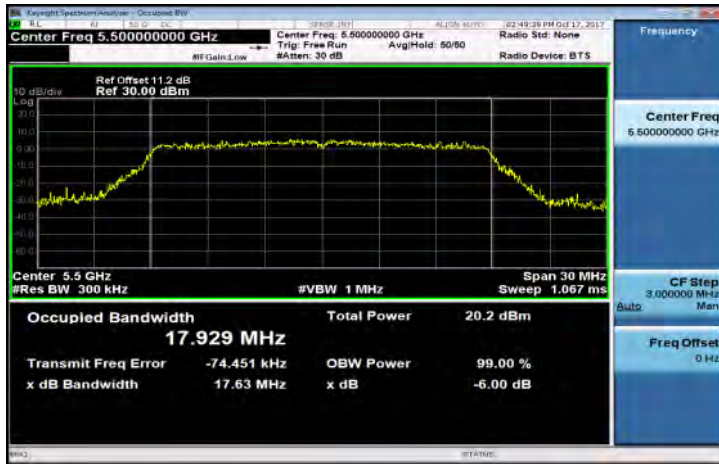


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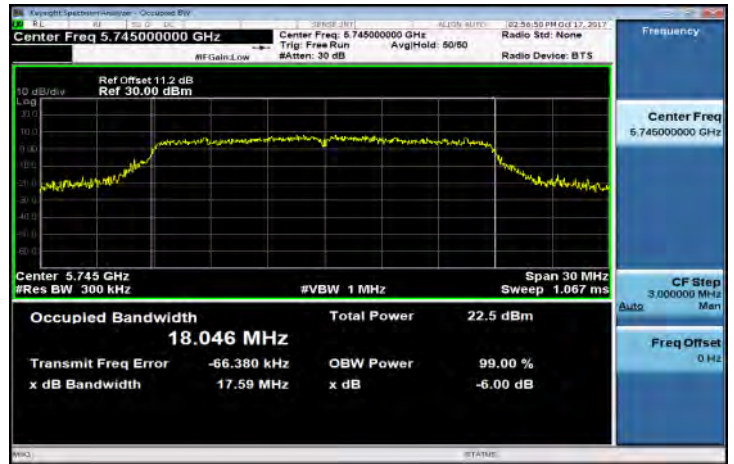
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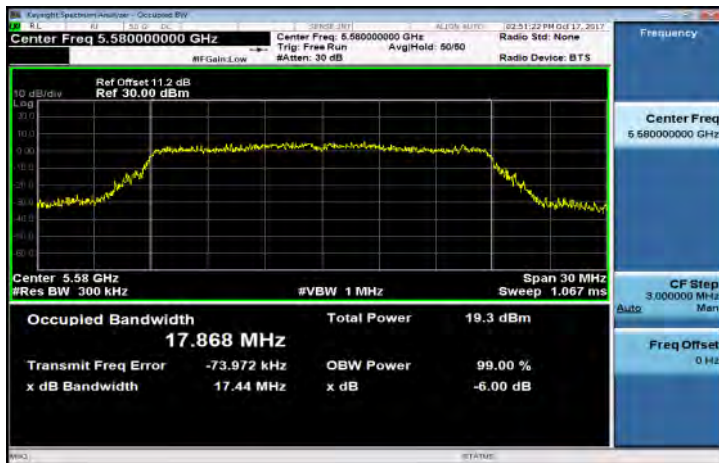
IC\_802.11n\_20MHz\_Main\_5500MHz



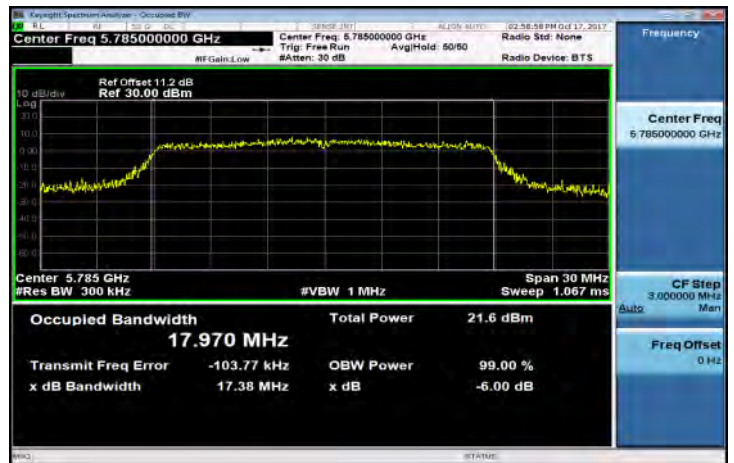
IC\_802.11n\_20MHz\_Main\_5745MHz



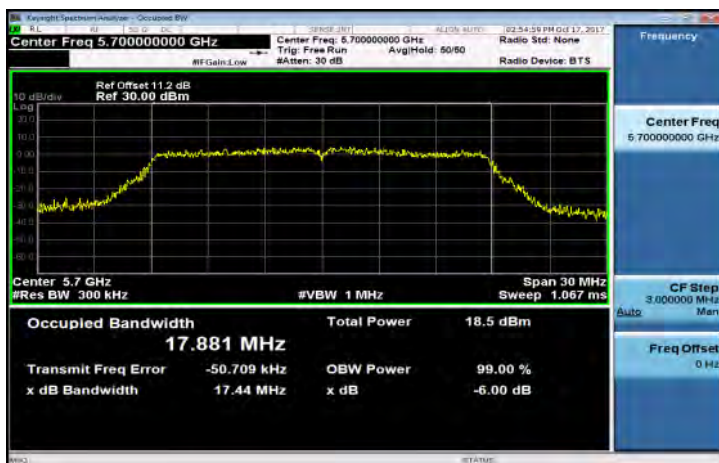
IC\_802.11n\_20MHz\_Main\_5580MHz



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



IC\_802.11n\_20MHz\_Main\_5700MHz



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



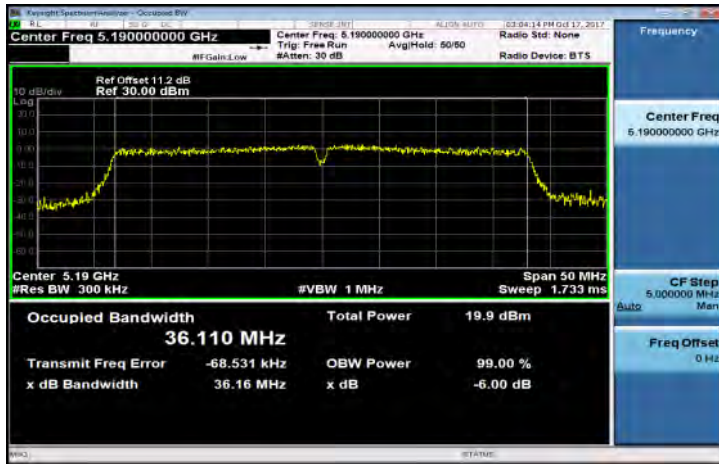
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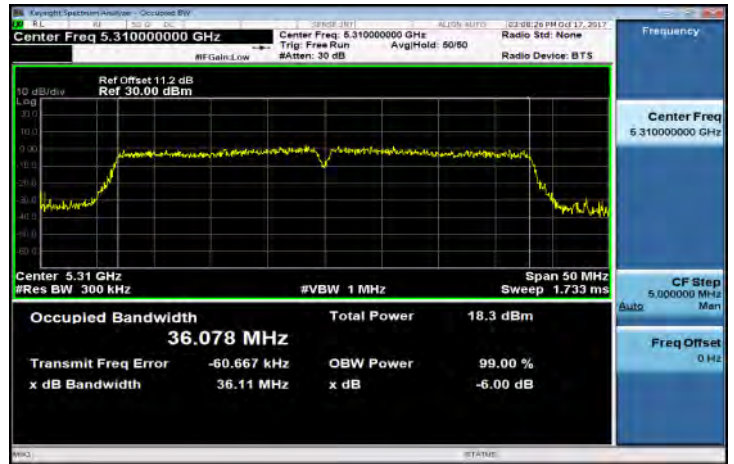
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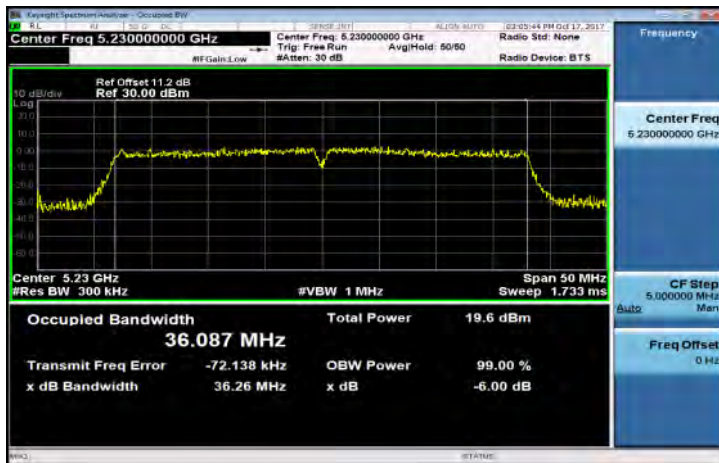
IC\_802.11n\_40MHz\_Main\_5190MHz



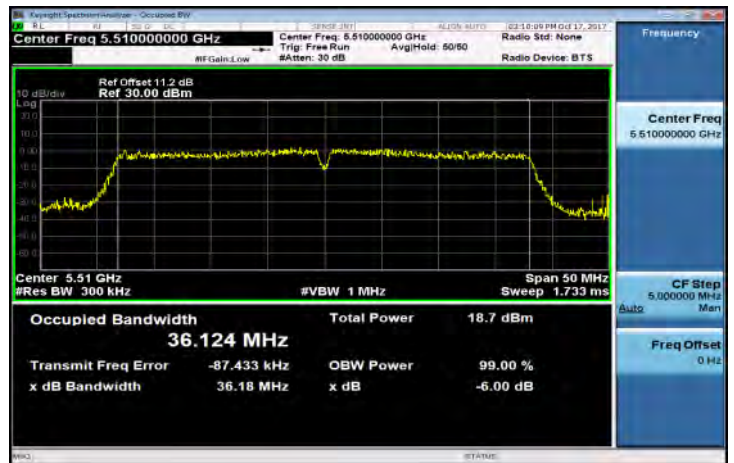
IC\_802.11n\_40MHz\_Main\_5310MHz



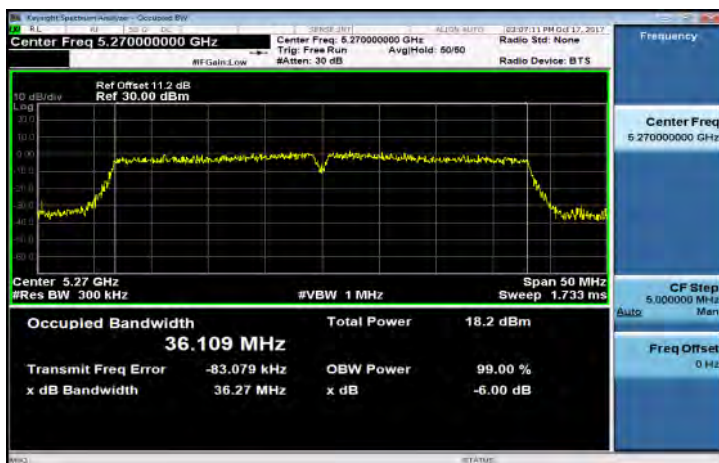
IC\_802.11n\_40MHz\_Main\_5230MHz



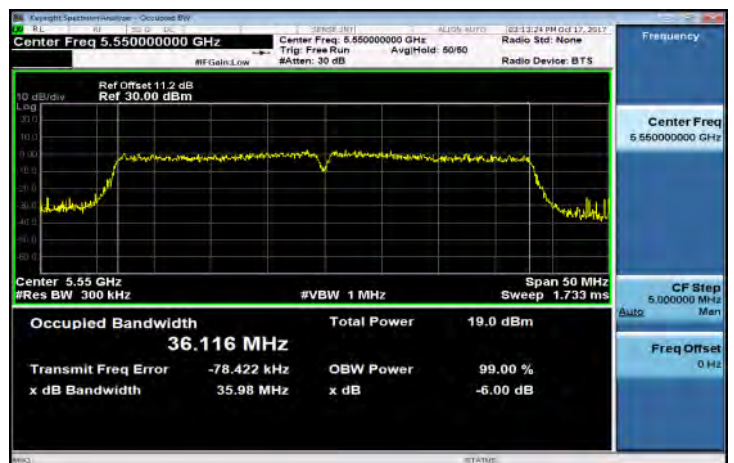
IC\_802.11n\_40MHz\_Main\_5510MHz



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



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

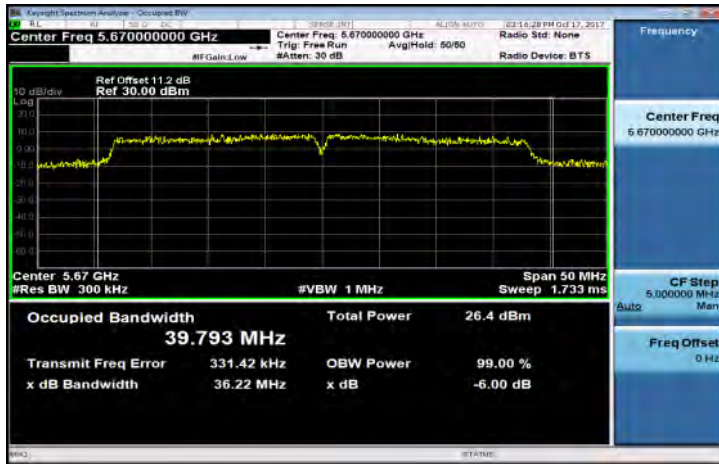


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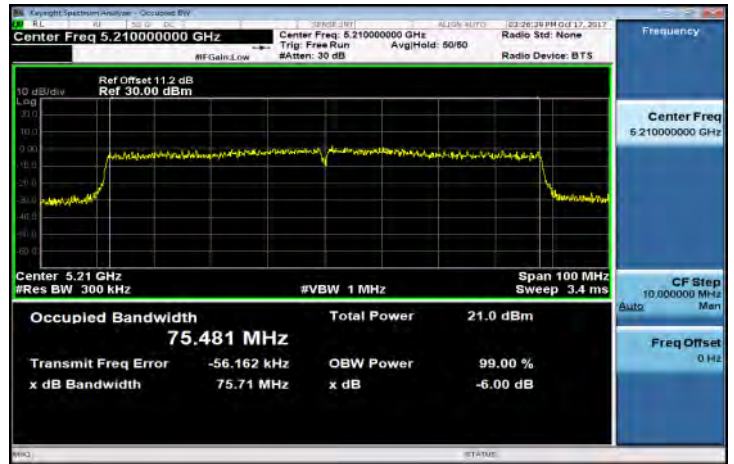
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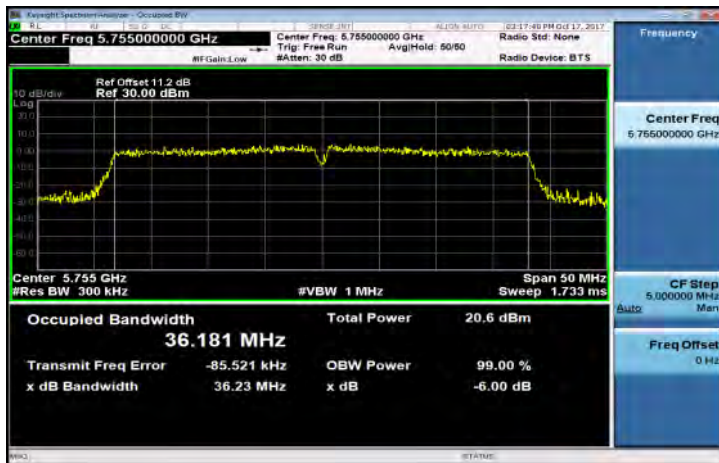
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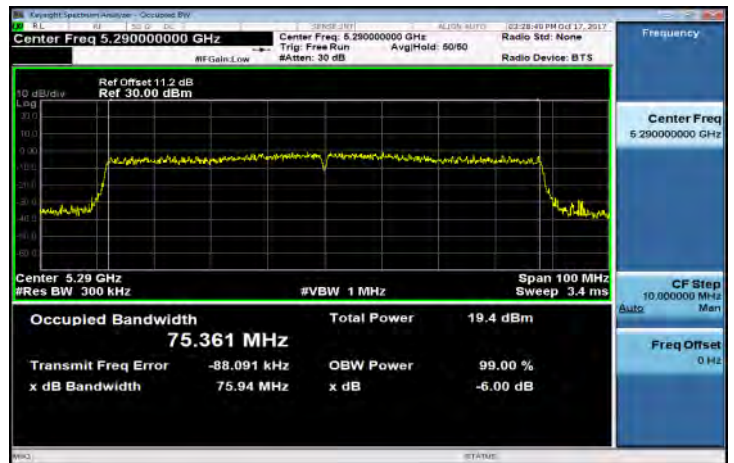
IC\_802.11ac\_80MHz\_Main\_5210MHz



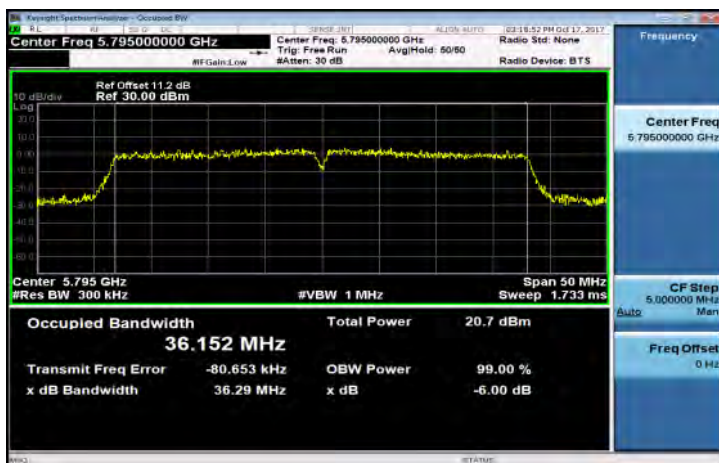
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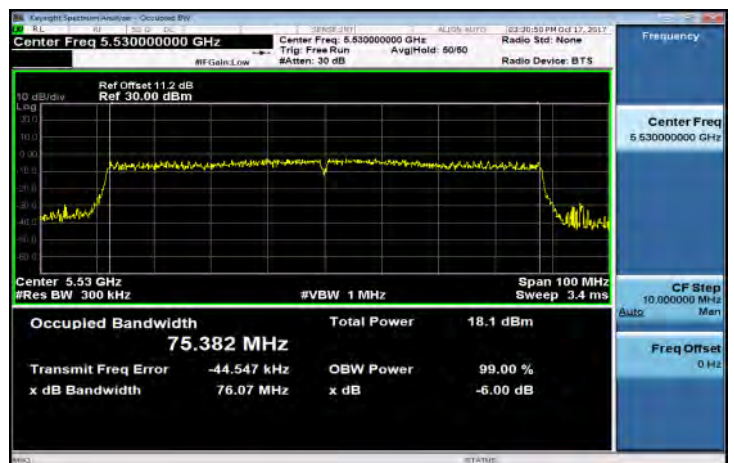
IC\_802.11ac\_80MHz\_Main\_5290MHz



IC\_802.11n\_40MHz\_Main\_5795MHz



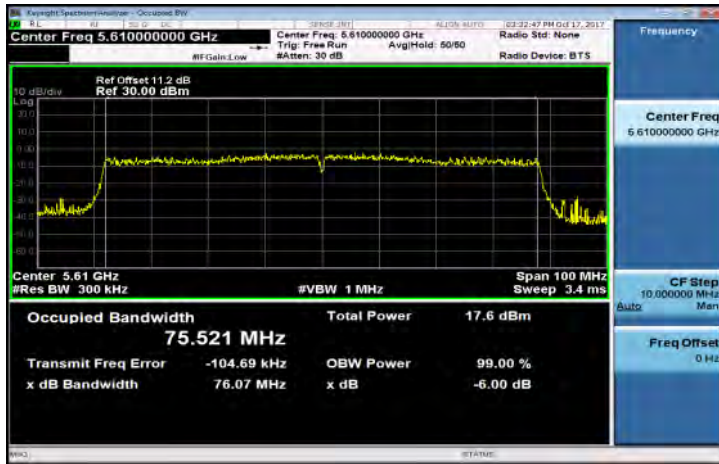
IC\_802.11ac\_80MHz\_Main\_5530MHz



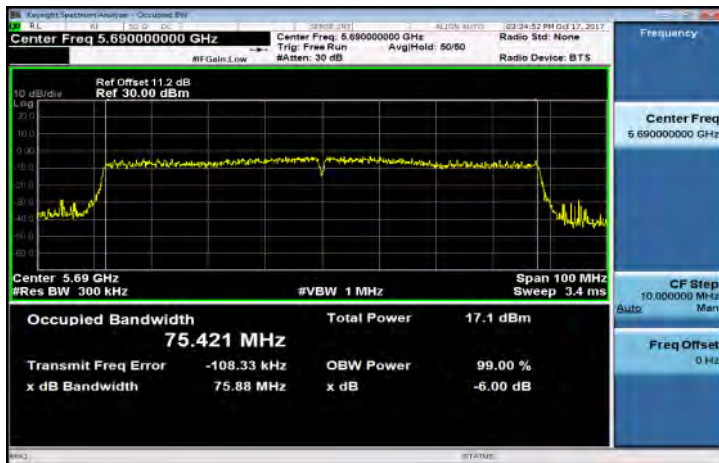
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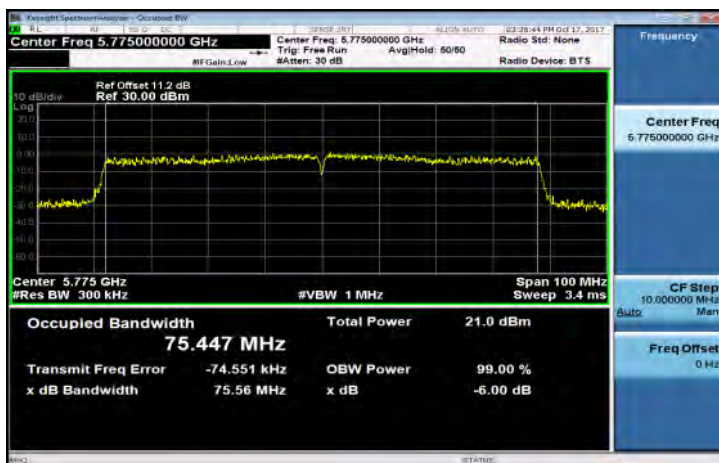
### IC\_802.11ac\_80MHz\_Main\_5610MHz



### IC\_802.11ac\_80MHz\_Main\_5690MHz



### IC\_802.11ac\_80MHz\_Main\_5775MHz



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99% BW to prove that all signals in band I is no over band I

802.11a\_Main\_5240MHz



802.11ac\_80MHz\_Main\_5210MHz



802.11n\_20MHz\_Main\_5240MHz



802.11n\_40MHz\_Main\_5230MHz



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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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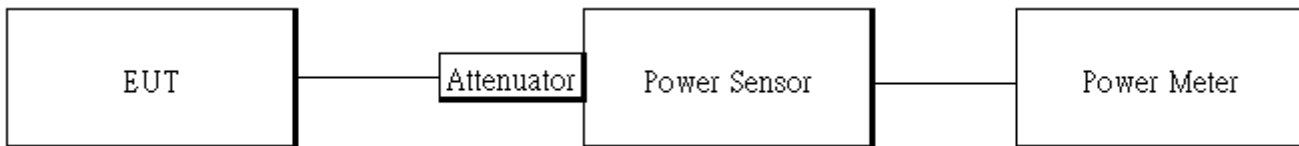
### 9.2 Measurement Procedure

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\_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	<b>17.55</b>	56.880	30	PASS
44	5220	6	17.47	55.842	30	PASS
48	5240	6	17.41	55.076	30	PASS
52	5260	6	17.29	53.575	23.98 or $11+10\log(B) = 24.25$	PASS
60	5300	6	17.38	54.696	23.98 or $11+10\log(B) = 24.32$	PASS
64	5320	6	<b>20.16</b>	103.743	23.98 or $11+10\log(B) = 25.65$	PASS
100	5500	6	<b>17.25</b>	53.083	23.98 or $11+10\log(B) = 24.18$	PASS
116	5580	6	16.98	49.884	23.98 or $11+10\log(B) = 24.19$	PASS
140	5700	6	16.82	48.079	23.98 or $11+10\log(B) = 24.31$	PASS
149	5745	6	<b>19.91</b>	97.940	30	PASS
157	5785	6	19.73	93.963	30	PASS
165	5825	6	19.90	97.714	30	PASS

#### 802.11n\_HT20\_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	<b>17.43</b>	55.398	30	PASS
44	5220	MCS0	17.36	54.512	30	PASS
48	5240	MCS0	17.40	55.016	30	PASS
52	5260	MCS0	17.31	53.888	23.98 or $11+10\log(B) = 24.37$	PASS
60	5300	MCS0	17.16	52.058	23.98 or $11+10\log(B) = 24.37$	PASS
64	5320	MCS0	<b>19.64</b>	92.149	23.98 or $11+10\log(B) = 25.40$	PASS
100	5500	MCS0	<b>15.84</b>	38.414	23.98 or $11+10\log(B) = 24.29$	PASS
116	5580	MCS0	15.70	37.196	23.98 or $11+10\log(B) = 24.34$	PASS
140	5700	MCS0	15.30	33.923	23.98 or $11+10\log(B) = 24.29$	PASS
149	5745	MCS0	<b>18.85</b>	76.823	30	PASS
157	5785	MCS0	18.77	75.421	30	PASS
165	5825	MCS0	18.69	74.044	30	PASS

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**802.11ac\_VHT20\_Main**

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	<b>16.97</b>	49.789	30	PASS
44	5220	MCS0	16.93	49.332	30	PASS
48	5240	MCS0	16.95	49.560	30	PASS
52	5260	MCS0	16.73	47.112	23.98 or $11+10\log(B) = 24.37$	PASS
60	5300	MCS0	16.65	46.252	23.98 or $11+10\log(B) = 24.37$	PASS
64	5320	MCS0	<b>18.57</b>	71.966	23.98 or $11+10\log(B) = 25.40$	PASS
100	5500	MCS0	<b>15.19</b>	33.047	23.98 or $11+10\log(B) = 24.29$	PASS
116	5580	MCS0	15.05	31.999	23.98 or $11+10\log(B) = 24.34$	PASS
140	5700	MCS0	14.69	29.453	23.98 or $11+10\log(B) = 24.29$	PASS
149	5745	MCS0	<b>18.19</b>	65.937	30	PASS
157	5785	MCS0	18.08	64.288	30	PASS
165	5825	MCS0	18.01	63.260	30	PASS

**802.11n\_HT40\_Main**

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	<b>16.26</b>	42.290	30	PASS
46	5230	MCS0	16.20	41.710	30	PASS
54	5270	MCS0	<b>14.61</b>	28.923	23.98 or $11+10\log(B) = 26.97$	PASS
62	5310	MCS0	14.48	28.070	23.98 or $11+10\log(B) = 26.97$	PASS
102	5510	MCS0	14.65	29.190	23.98 or $11+10\log(B) = 26.97$	PASS
110	5550	MCS0	14.37	27.368	23.98 or $11+10\log(B) = 27.52$	PASS
134	5670	MCS0	<b>22.78</b>	189.774	23.98 or $11+10\log(B) = 27.99$	PASS
151	5755	MCS0	<b>17.57</b>	57.179	30	PASS
159	5795	MCS0	17.50	56.265	30	PASS

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**802.11ac\_VHT40\_Main**

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	<b>15.67</b>	36.909	30	PASS
46	5230	MCS0	15.59	36.235	30	PASS
54	5270	MCS0	<b>14.03</b>	25.301	23.98 or $11+10\log(B) = 26.97$	PASS
62	5310	MCS0	14.01	25.184	23.98 or $11+10\log(B) = 26.97$	PASS
102	5510	MCS0	13.74	23.666	23.98 or $11+10\log(B) = 26.97$	PASS
110	5550	MCS0	13.67	23.288	23.98 or $11+10\log(B) = 27.52$	PASS
134	5670	MCS0	<b>22.20</b>	166.008	23.98 or $11+10\log(B) = 27.99$	PASS
151	5755	MCS0	<b>16.39</b>	43.564	30	PASS
159	5795	MCS0	16.30	42.671	30	PASS

**802.11ac\_VHT80\_Main**

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	<b>16.60</b>	45.687	30	PASS
58	5290	MCS0	<b>14.48</b>	28.041	23.98 or $11+10\log(B) = 30.07$	PASS
106	5530	MCS0	<b>13.23</b>	21.028	23.98 or $11+10\log(B) = 30.59$	PASS
122	5610	MCS0	13.03	20.081	23.98 or $11+10\log(B) = 30.57$	PASS
155	5775	MCS0	<b>17.18</b>	52.215	30	PASS

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**Conducted output power (IC)**
**802.11a\_Main**

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	17.29	53.575	23.98 or $11+10\log(B) = 23.24$	PASS
60	5300	17.38	54.696	23.98 or $11+10\log(B) = 23.24$	PASS
64	5320	<b>20.16</b>	<b>103.743</b>	23.98 or $11+10\log(B) = 23.36$	PASS
100	5500	<b>17.25</b>	<b>53.083</b>	23.98 or $11+10\log(B) = 23.25$	PASS
116	5580	16.98	49.884	23.98 or $11+10\log(B) = 23.25$	PASS
140	5700	<b>16.82</b>	<b>48.079</b>	23.98 or $11+10\log(B) = 23.24$	PASS
149	5745	<b>19.91</b>	<b>97.940</b>	30	PASS
157	5785	19.73	93.963	30	PASS
165	5825	19.90	97.714	30	PASS

**802.11n\_HT20\_Main**

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	17.31	53.888	23.98 or $11+10\log(B) = 23.52$	PASS
60	5300	17.16	52.058	23.98 or $11+10\log(B) = 23.53$	PASS
64	5320	<b>19.64</b>	<b>92.149</b>	23.98 or $11+10\log(B) = 23.56$	PASS
100	5500	<b>15.84</b>	<b>38.414</b>	23.98 or $11+10\log(B) = 23.54$	PASS
116	5580	15.70	37.196	23.98 or $11+10\log(B) = 23.52$	PASS
140	5700	<b>15.30</b>	<b>33.923</b>	23.98 or $11+10\log(B) = 23.52$	PASS
149	5745	<b>18.85</b>	<b>76.823</b>	30	PASS
157	5785	18.77	75.421	30	PASS
165	5825	18.69	74.044	30	PASS

**802.11ac\_VHT20\_Main**

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	16.73	47.112	23.98 or $11+10\log(B) = 23.52$	PASS
60	5300	16.65	46.252	23.98 or $11+10\log(B) = 23.53$	PASS
64	5320	<b>18.57</b>	<b>71.966</b>	23.98 or $11+10\log(B) = 23.56$	PASS
100	5500	<b>15.19</b>	<b>33.047</b>	23.98 or $11+10\log(B) = 23.54$	PASS
116	5580	15.05	31.999	23.98 or $11+10\log(B) = 23.52$	PASS
140	5700	<b>14.69</b>	<b>29.453</b>	23.98 or $11+10\log(B) = 23.52$	PASS
149	5745	<b>18.19</b>	<b>65.937</b>	30	PASS
157	5785	18.08	64.288	30	PASS
165	5825	18.01	63.260	30	PASS

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**802.11n\_HT40\_Main**

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	<b>14.61</b>	<b>28.923</b>	23.98 or 11+10log(B) = 26.58	PASS
62	5310	14.48	28.070	23.98 or 11+10log(B) = 26.57	PASS
102	5510	<b>14.65</b>	<b>29.190</b>	23.98 or 11+10log(B) = 26.58	PASS
110	5550	14.37	27.368	23.98 or 11+10log(B) = 26.58	PASS
134	5670	<b>22.78</b>	<b>189.774</b>	23.98 or 11+10log(B) = 27.00	PASS
151	5755	<b>17.57</b>	<b>57.179</b>	30	PASS
159	5795	17.50	56.265	30	PASS

**802.11ac\_VHT40\_Main**

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	<b>14.03</b>	<b>25.301</b>	23.98 or 11+10log(B) = 26.58	PASS
62	5310	14.01	25.184	23.98 or 11+10log(B) = 26.57	PASS
102	5510	<b>13.74</b>	<b>23.666</b>	23.98 or 11+10log(B) = 26.58	PASS
110	5550	13.67	23.288	23.98 or 11+10log(B) = 26.58	PASS
134	5670	<b>22.20</b>	<b>166.008</b>	23.98 or 11+10log(B) = 27.00	PASS
151	5755	<b>16.39</b>	<b>43.564</b>	30	PASS
159	5795	16.30	42.671	30	PASS

**802.11ac\_VHT80\_Main**

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	<b>14.48</b>	<b>28.041</b>	23.98 or 11+10log(B) = 29.77	PASS
106	5530	<b>13.23</b>	<b>21.028</b>	23.98 or 11+10log(B) = 29.77	PASS
155	5775	<b>17.18</b>	<b>52.215</b>	30	PASS

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## EIRP

## 802.11a\_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	17.55	2.280	19.83	96.152	23.01 or 10+10log(B)= 22.25	PASS
44	5220	17.47	2.280	19.75	94.397	23.01 or 10+10log(B)= 22.25	PASS
48	5240	17.41	2.280	19.69	93.102	23.01 or 10+10log(B)= 22.25	PASS
52	5260	17.29	2.280	19.57	90.565	30 or 17+10log(B)= 29.24	PASS
60	5300	17.38	2.280	19.66	92.461	30 or 17+10log(B)= 29.24	PASS
64	5320	20.16	2.280	22.44	175.371	30 or 17+10log(B)= 29.36	PASS
100	5500	17.25	3.460	20.71	117.749	30 or 17+10log(B)= 29.25	PASS
116	5580	16.98	3.460	20.44	110.652	30 or 17+10log(B)= 29.25	PASS
140	5700	16.82	3.460	20.28	106.649	30 or 17+10log(B)= 29.24	PASS

## 802.11n\_HT20\_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	17.43	2.280	19.71	93.646	23.01 or 10+10log(B)= 22.54	PASS
44	5220	17.36	2.280	19.64	92.149	23.01 or 10+10log(B)= 22.51	PASS
48	5240	17.40	2.280	19.68	93.002	23.01 or 10+10log(B)= 22.54	PASS
52	5260	17.31	2.280	19.59	91.094	30 or 17+10log(B)= 29.52	PASS
60	5300	17.16	2.280	19.44	88.002	30 or 17+10log(B)= 29.53	PASS
64	5320	19.64	2.280	21.92	155.773	30 or 17+10log(B)= 29.56	PASS
100	5500	15.84	3.460	19.30	85.210	30 or 17+10log(B)= 29.54	PASS
116	5580	15.70	3.460	19.16	82.507	30 or 17+10log(B)= 29.52	PASS
140	5700	15.30	3.460	18.76	75.247	30 or 17+10log(B)= 29.52	PASS

## 802.11ac\_VHT20\_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	16.97	2.280	19.25	84.165	23.01 or 10+10log(B)= 22.54	PASS
44	5220	16.93	2.280	19.21	83.393	23.01 or 10+10log(B)= 22.51	PASS
48	5240	16.95	2.280	19.23	83.778	23.01 or 10+10log(B)= 22.54	PASS
52	5260	16.73	2.280	19.01	79.640	30 or 17+10log(B)= 29.52	PASS
60	5300	16.65	2.280	18.93	78.186	30 or 17+10log(B)= 29.53	PASS
64	5320	18.57	2.280	20.85	121.655	30 or 17+10log(B)= 29.56	PASS
100	5500	15.19	3.460	18.65	73.304	30 or 17+10log(B)= 29.54	PASS
116	5580	15.05	3.460	18.51	70.979	30 or 17+10log(B)= 29.52	PASS
140	5700	14.69	3.460	18.15	65.333	30 or 17+10log(B)= 29.52	PASS

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## 802.11n\_HT40\_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	<b>16.26</b>	2.280	<b>18.54</b>	<b>71.489</b>	23.01 or 10+10log(B)= 25.58	PASS
46	5230	16.20	2.280	18.48	70.508	23.01 or 10+10log(B)= 25.57	PASS
54	5270	<b>14.61</b>	2.280	<b>16.89</b>	<b>48.892</b>	30 or 17+10log(B)= 32.58	PASS
62	5310	14.48	2.280	16.76	47.450	30 or 17+10log(B)= 32.57	PASS
102	5510	<b>14.65</b>	3.460	<b>18.11</b>	<b>64.749</b>	30 or 17+10log(B)= 32.58	PASS
110	5550	14.37	3.460	17.83	60.707	30 or 17+10log(B)= 32.58	PASS
134	5670	<b>22.78</b>	3.460	<b>26.24</b>	<b>420.956</b>	30 or 17+10log(B)= 33.00	PASS

## 802.11ac\_VHT40\_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	<b>15.67</b>	2.280	<b>17.95</b>	<b>62.392</b>	23.01 or 10+10log(B)= 25.58	PASS
46	5230	15.59	2.280	17.87	61.253	23.01 or 10+10log(B)= 25.57	PASS
54	5270	<b>14.03</b>	2.280	<b>16.31</b>	<b>42.769</b>	30 or 17+10log(B)= 32.58	PASS
62	5310	14.01	2.280	16.29	42.573	30 or 17+10log(B)= 32.57	PASS
102	5510	<b>13.74</b>	3.460	<b>17.20</b>	<b>52.496</b>	30 or 17+10log(B)= 32.58	PASS
110	5550	13.67	3.460	17.13	51.657	30 or 17+10log(B)= 32.58	PASS
134	5670	<b>22.20</b>	3.460	<b>25.66</b>	<b>368.239</b>	30 or 17+10log(B)= 33.00	PASS

## 802.11ac\_VHT80\_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	<b>16.60</b>	2.280	<b>18.88</b>	<b>77.231</b>	23.01 or 10+10log(B)= 28.78	PASS
58	5290	<b>14.48</b>	2.280	<b>16.76</b>	<b>47.401</b>	30 or 17+10log(B)= 35.77	PASS
106	5530	<b>13.23</b>	3.460	<b>16.69</b>	<b>46.644</b>	30 or 17+10log(B)= 35.77	PASS

**Note:**

SISO offset= 11.2 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

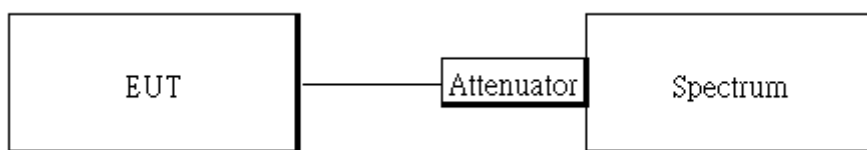
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**  
Set 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)	Limit (dBm)	Margin (dB)
5180	3.32	0.21	3.53	11	-7.47
5220	4.01	0.21	4.22	11	-6.78
5240	2.68	0.21	2.89	11	-8.11
5260	3.99	0.21	4.20	11	-6.80
5300	3.83	0.21	4.04	11	-6.96
5320	5.35	0.21	5.56	11	-5.44
5500	2.91	0.21	3.12	11	-7.88
5580	3.06	0.21	3.27	11	-7.73
5700	3.13	0.21	3.34	11	-7.66
5745	12.56	0.21	12.56	30	-17.44
5785	11.73	0.21	11.73	30	-18.27
5825	12.25	0.21	12.25	30	-17.75
POWER DENSITY 802.11n HT20 MODE					
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	4.01	0.22	4.23	11	-6.77
5220	2.93	0.22	3.15	11	-7.85
5240	3.23	0.22	3.45	11	-7.55
5260	4.85	0.22	5.07	11	-5.93
5300	2.36	0.22	2.58	11	-8.42
5320	3.34	0.22	3.56	11	-7.44
5500	0.80	0.22	1.02	11	-9.98
5580	0.68	0.22	0.90	11	-10.10
5700	1.36	0.22	1.58	11	-9.42
5745	11.45	0.22	11.45	30	-18.55
5785	10.72	0.22	10.72	30	-19.28
5825	10.55	0.22	10.55	30	-19.45
POWER DENSITY 802.11n HT40 MODE					
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190	-2.12	0.44	-1.68	11	-12.68
5230	-2.59	0.44	-2.15	11	-13.15
5270	-3.5	0.44	-3.06	11	-14.06
5310	-4.33	0.44	-3.89	11	-14.89
5510	-5.09	0.44	-4.65	11	-15.65
5550	-3.51	0.44	-3.07	11	-14.07
5670	4.54	0.44	4.98	11	-6.02
5755	7.07	0.44	7.07	30	-22.93
5795	6.73	0.44	6.73	30	-23.27

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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)	Limit (dBm)	Margin (dB)
5210	-9.91	0.44	-9.47	11	-20.47
5290	-8.34	0.44	-7.90	11	-18.90
5530	-10.82	0.44	-10.38	11	-21.38
5610	-11.18	0.44	-10.74	11	-21.74
5775	4.34	0.44	4.34	30	-25.66

### 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	3.53	2.28	5.81	10	-6.47	5180	4.23	2.28	6.51	10	-5.77
5220	4.22	2.28	6.50	10	-5.78	5220	3.15	2.28	5.43	10	-6.85
5240	2.89	2.28	5.17	10	-7.11	5240	3.45	2.28	5.73	10	-6.55

EIRP spectral density 802.11n HT40 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	-1.68	2.28	0.60	10	-11.68
5220	-2.15	2.28	0.13	10	-12.15

EIRP spectral density 802.11ac VHT80 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5210	-9.47	2.28	-7.19	10	-19.47

**Note:**

SISO offset= 11.2 dB

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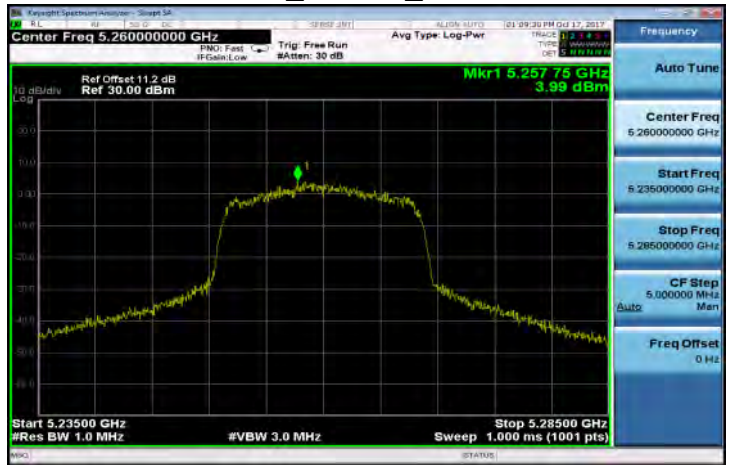
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802.11a\_20MHz\_5180MHz



802.11a\_20MHz\_5260MHz



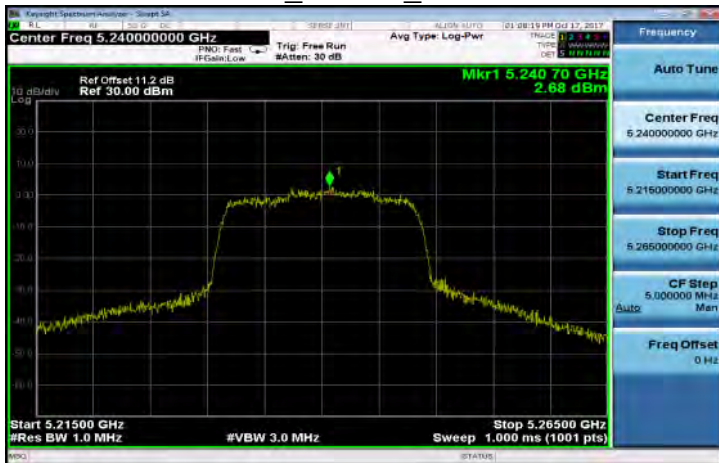
802.11a\_20MHz\_5220MHz



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

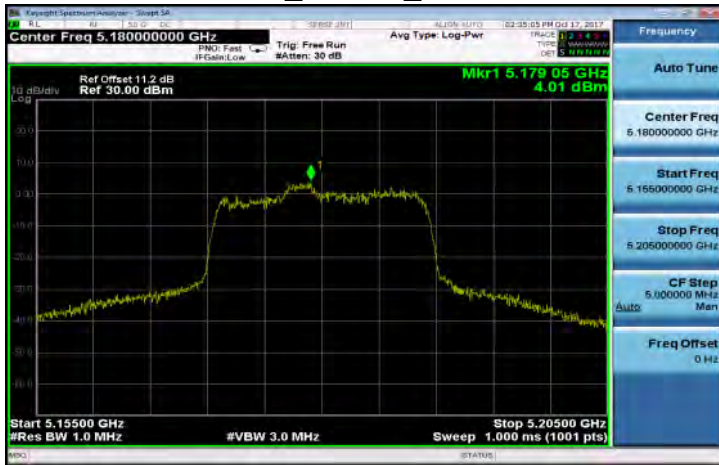


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802.11n\_20MHz\_5180MHz



802.11n\_20MHz\_5260MHz



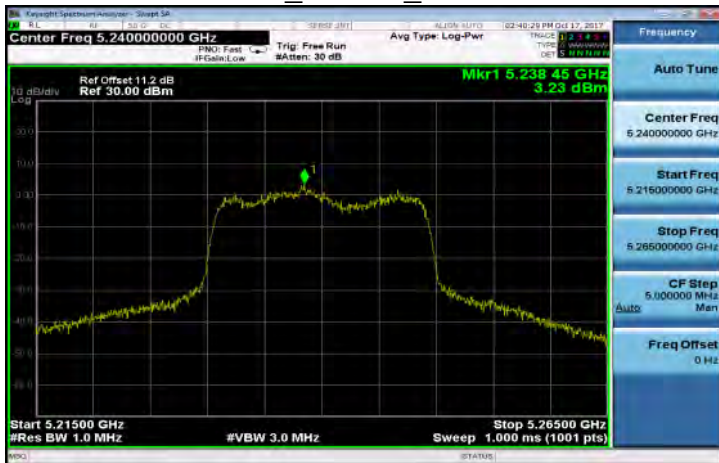
802.11n\_20MHz\_5220MHz



802.11n\_20MHz\_5300MHz



802.11n\_20MHz\_5240MHz



802.11n\_20MHz\_5320MHz



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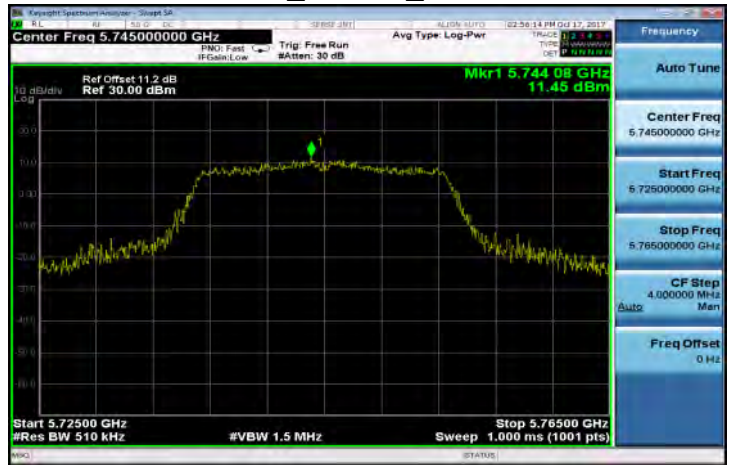
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802.11n\_20MHz\_5500MHz



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.

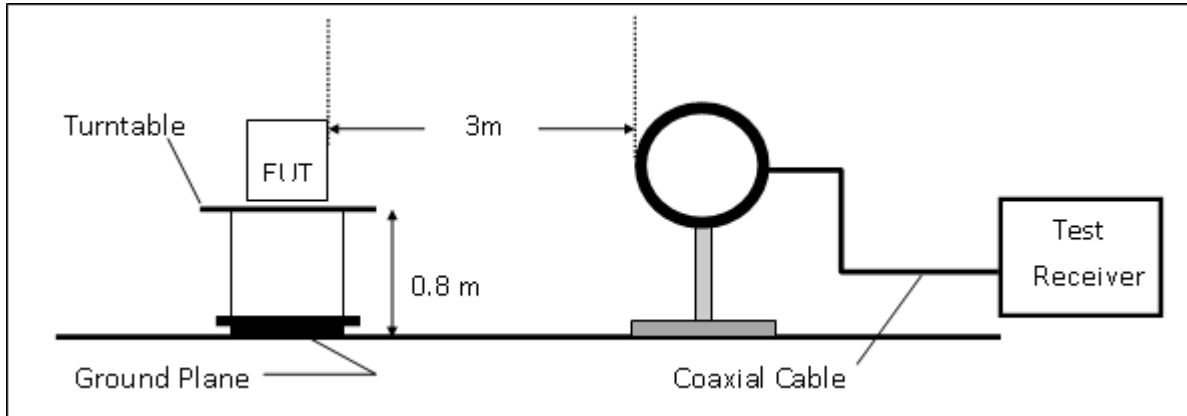
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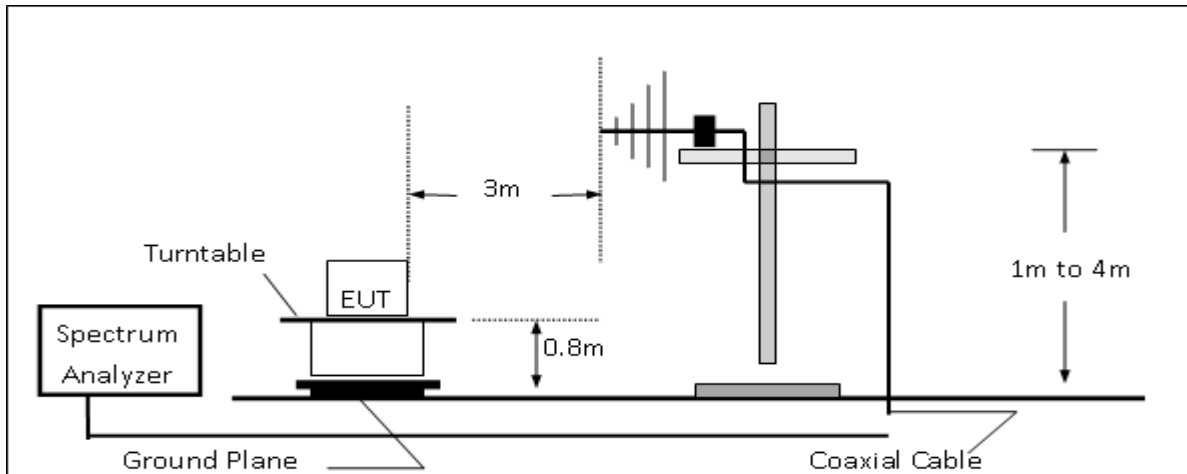
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### 11.3 Test SET-UP

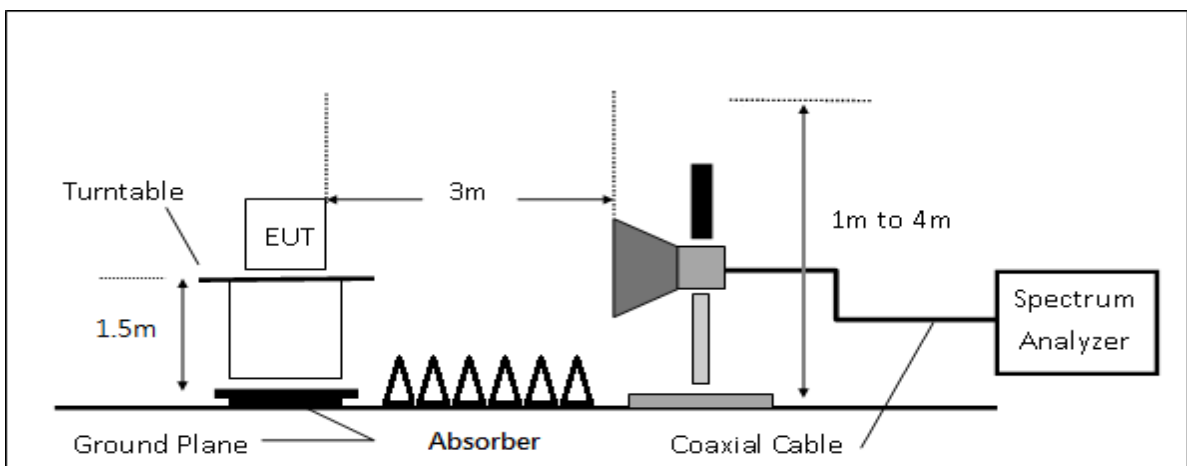
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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	95.4	2066	0.48	1kHz
802.11n_20	94.9	1920	0.52	1kHz
802.11n_40	90.3	943	1.06	3kHz
802.11ac_80	90.4	952	1.05	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.

Note: There is a comparison data of both open-field test site and semi-Anechoic, and test result came out very similar.

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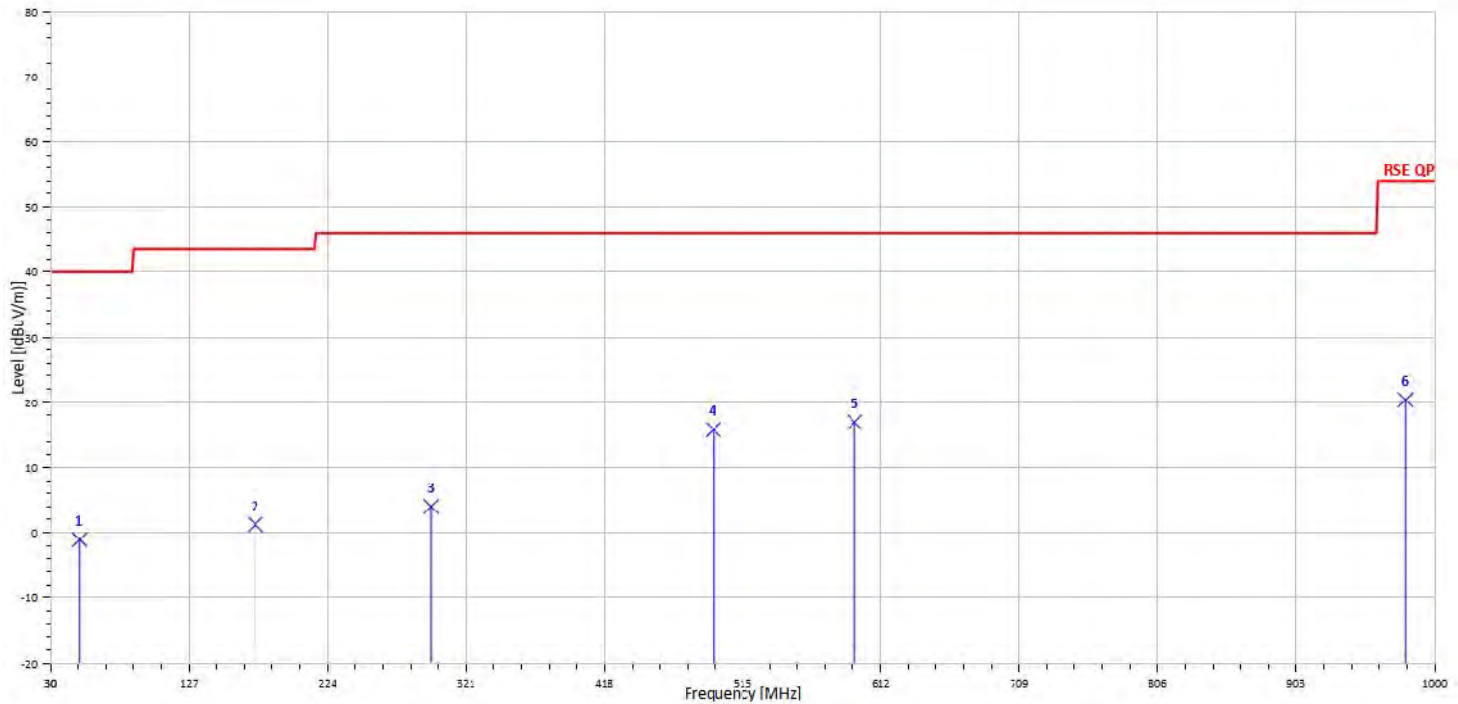
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## Radiated Spurious Emission Measurement Result

### Below 1GHz Worst-Case Data:

#### 802.11a 5150~5250 MHz

Operation Mode :	802.11aB1	Test Date :	2017/10/20
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH MID	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



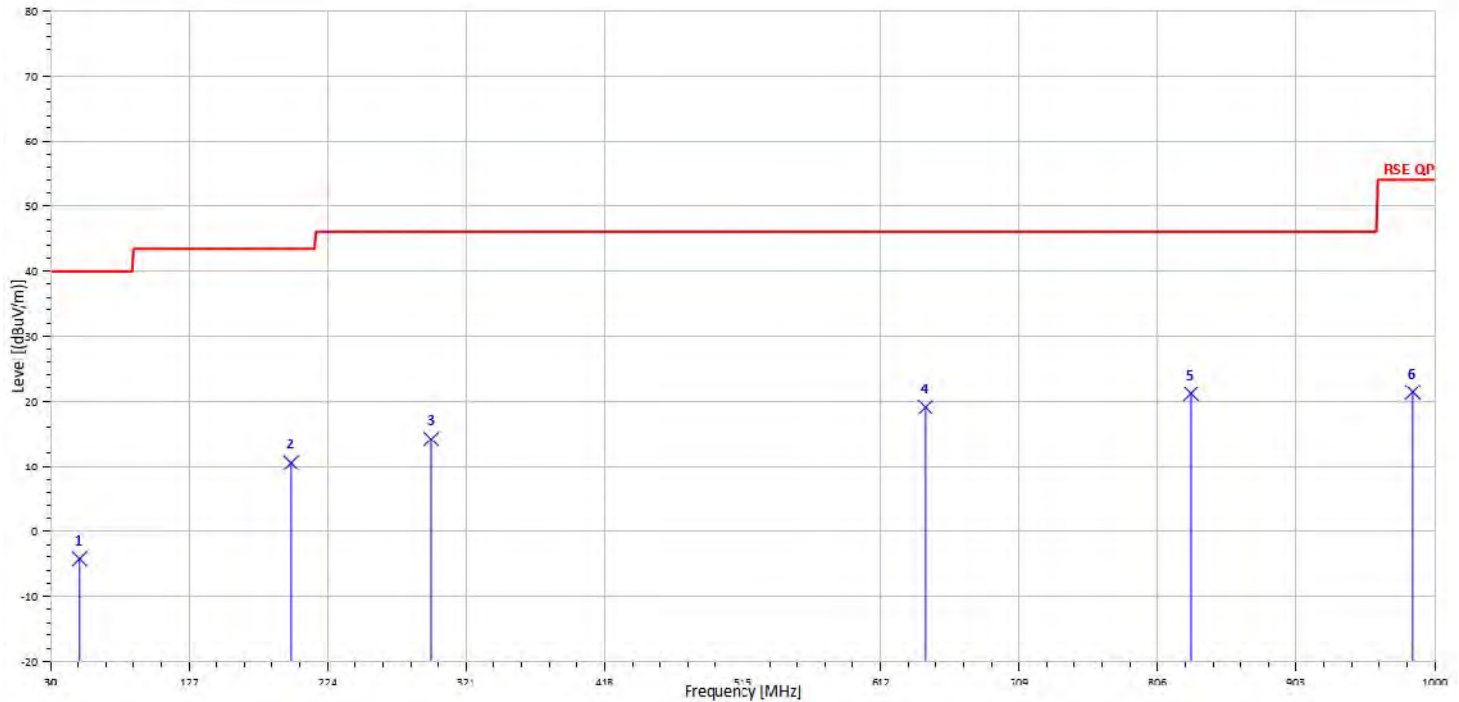
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
50.37	S	Peak	16.17	-17.24	-1.07	40	-41.07
173.56	S	Peak	18.27	-17.02	1.26	43.5	-42.24
296.75	S	Peak	19.42	-15.40	4.02	46	-41.98
494.63	S	Peak	27.14	-11.33	15.81	46	-30.19
593.57	S	Peak	25.95	-8.97	16.98	46	-29.02
979.63	S	Peak	24.43	-4.06	20.37	54	-33.63

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Operation Mode : 802.11aB1      Test Date : 2017/10/20  
 Fundamental Frequency : 5220 MHz      Temp. / Humi. : 22.8deg\_C/59RH  
 Operation Band : TX CH MID      Test Engineer : Enzo  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
50.37	S	Peak	12.99	-17.24	-4.25	40	-44.25
198.78	S	Peak	29.21	-18.65	10.56	43.5	-32.94
296.75	S	Peak	29.56	-15.40	14.16	46	-31.84
643.04	S	Peak	27.20	-8.07	19.13	46	-26.87
829.28	S	Peak	27.05	-5.90	21.15	46	-24.85
984.48	S	Peak	25.46	-4.07	21.39	54	-32.61

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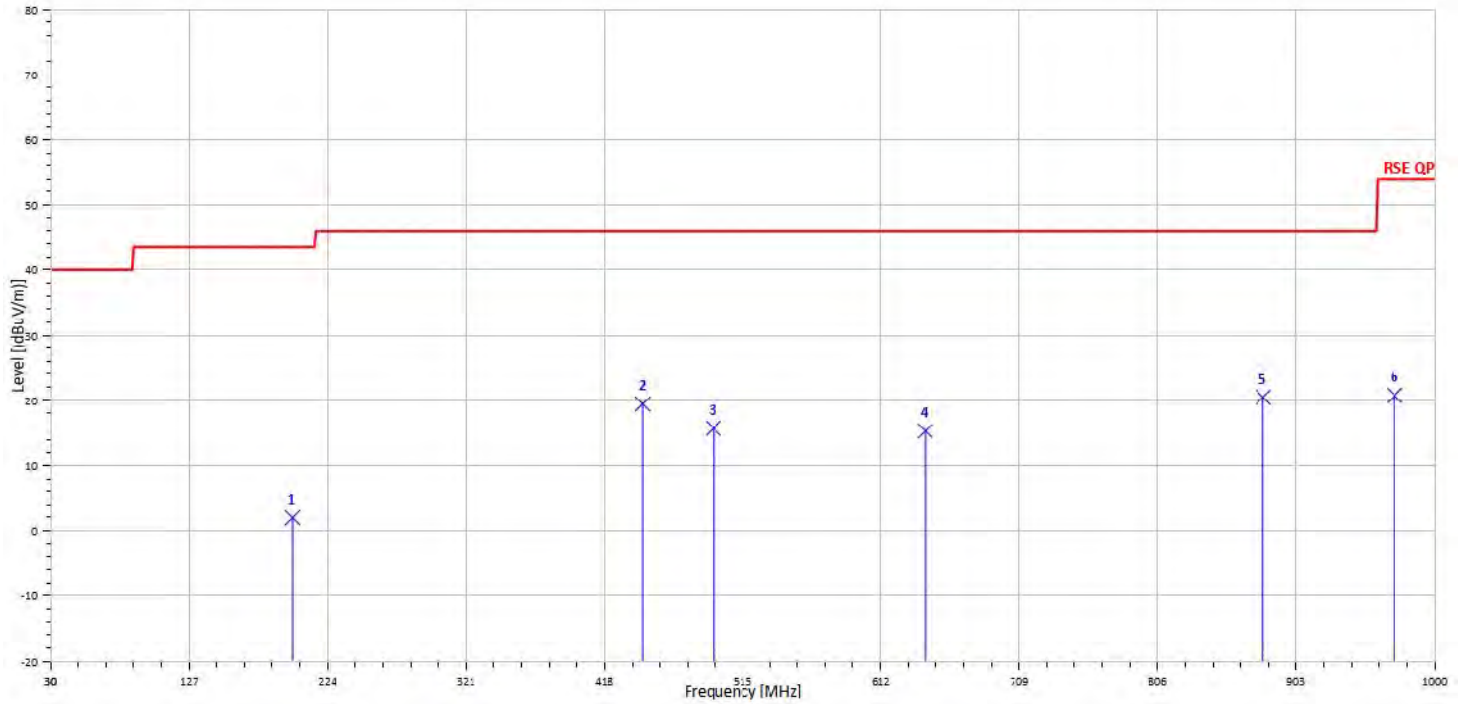
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## 802.11a 5250~5350 MHz

Operation Mode :	802.11aB2	Test Date :	2017/10/20
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH MID	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



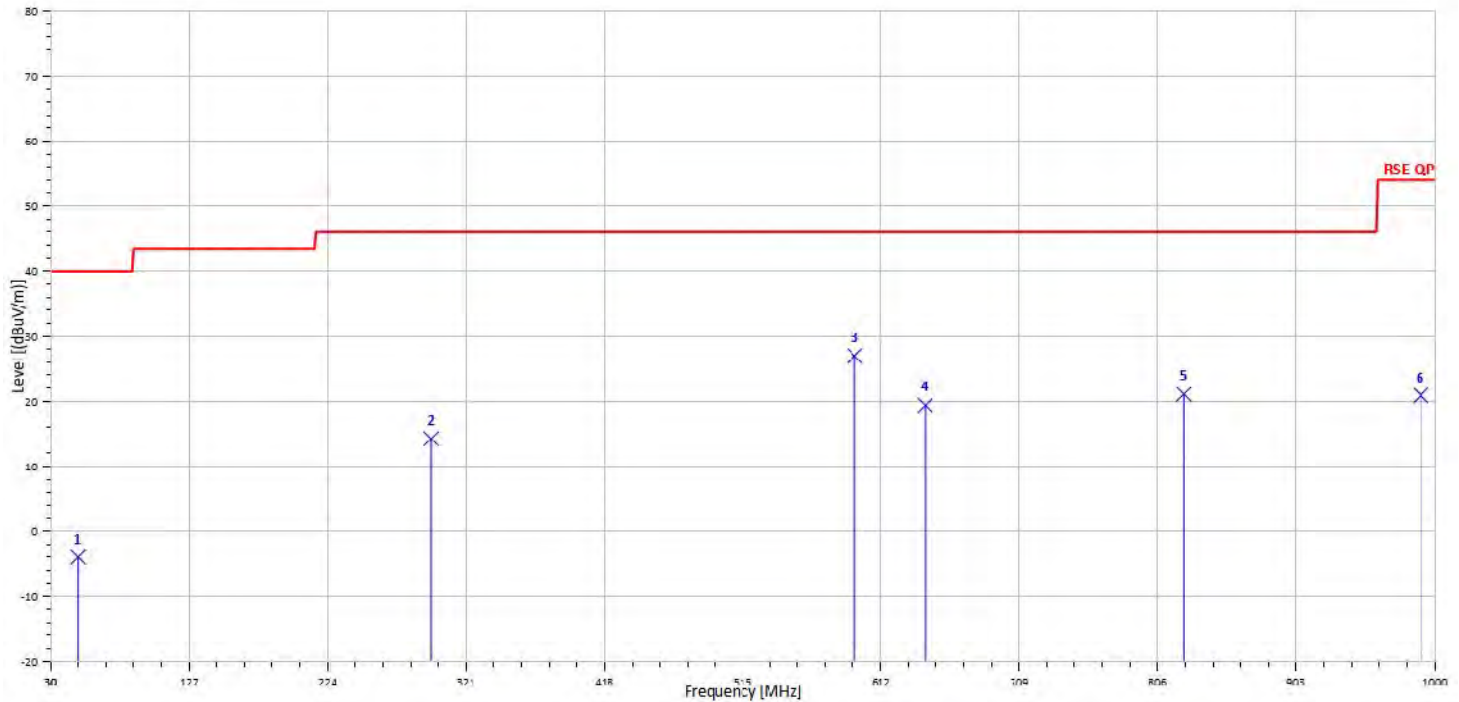
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
199.75	S	Peak	20.61	-18.64	1.96	43.5	-41.54
445.16	S	Peak	31.65	-12.20	19.45	46	-26.55
494.63	S	Peak	27.06	-11.33	15.72	46	-30.28
643.04	S	Peak	23.37	-8.07	15.29	46	-30.71
879.72	S	Peak	26.77	-6.29	20.48	46	-25.52
971.87	S	Peak	24.81	-4.06	20.74	54	-33.26

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Operation Mode : 802.11aB2      Test Date : 2017/10/20  
 Fundamental Frequency : 5300 MHz      Temp. / Humi. : 22.8deg\_C/59RH  
 Operation Band : TX CH MID      Test Engineer : Enzo  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
49.40	S	Peak	13.23	-17.20	-3.97	40	-43.97
296.75	S	Peak	29.63	-15.40	14.23	46	-31.77
593.57	S	Peak	35.94	-8.97	26.97	46	-19.03
643.04	S	Peak	27.45	-8.07	19.38	46	-26.62
824.43	S	Peak	27.11	-6.03	21.07	46	-24.93
990.30	S	Peak	24.96	-4.08	20.88	54	-33.12

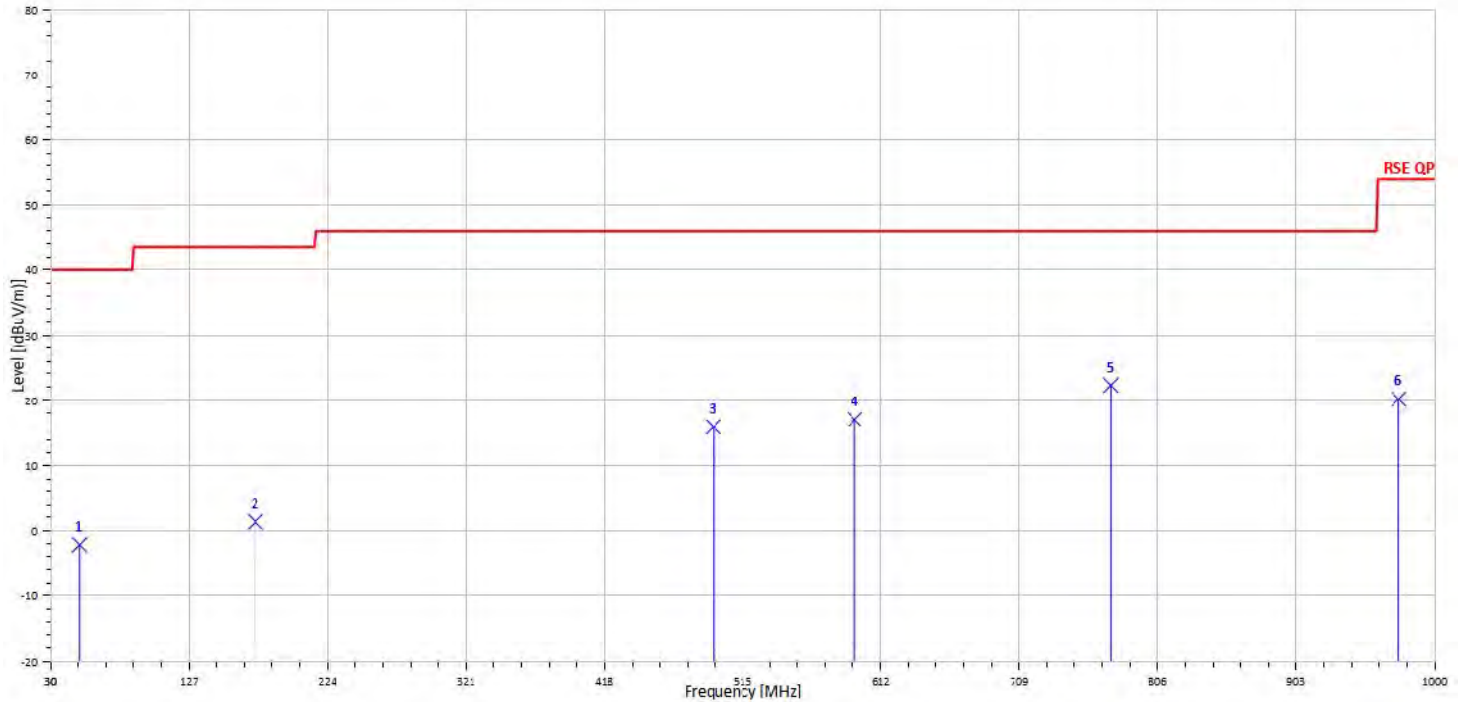
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## 802.11a, 5470~5725 MHz

Operation Mode :	802.11aB3	Test Date :	2017/10/20
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH MID	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



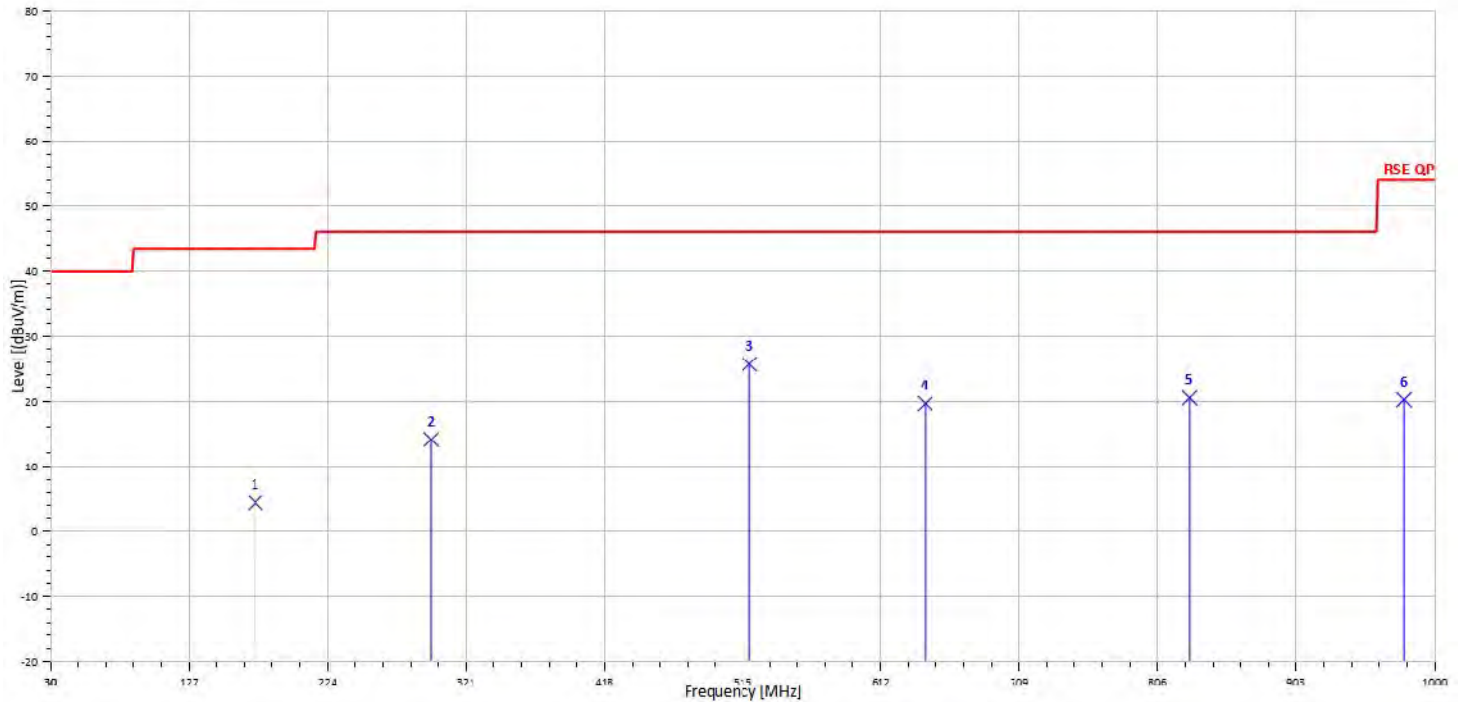
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
50.37	S	Peak	15.03	-17.24	-2.21	40	-42.21
173.56	S	Peak	18.38	-17.02	1.37	43.5	-42.13
494.63	S	Peak	27.27	-11.33	15.94	46	-30.06
593.57	S	Peak	26.04	-8.97	17.06	46	-28.94
773.02	S	Peak	28.69	-6.40	22.29	46	-23.72
974.78	S	Peak	24.25	-4.06	20.19	54	-33.81

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Operation Mode : 802.11aB3      Test Date : 2017/10/20  
 Fundamental Frequency : 5580 MHz      Temp. / Humi. : 22.8deg\_C/59RH  
 Operation Band : TX CH MID      Test Engineer : Enzo  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
173.56	S	Peak	21.41	-17.02	4.39	43.5	-39.11
296.75	S	Peak	29.52	-15.40	14.11	46	-31.89
519.85	S	Peak	36.14	-10.45	25.69	46	-20.31
643.04	S	Peak	27.73	-8.07	19.66	46	-26.34
828.31	S	Peak	26.43	-5.92	20.51	46	-25.49
978.66	S	Peak	24.31	-4.06	20.25	54	-33.75

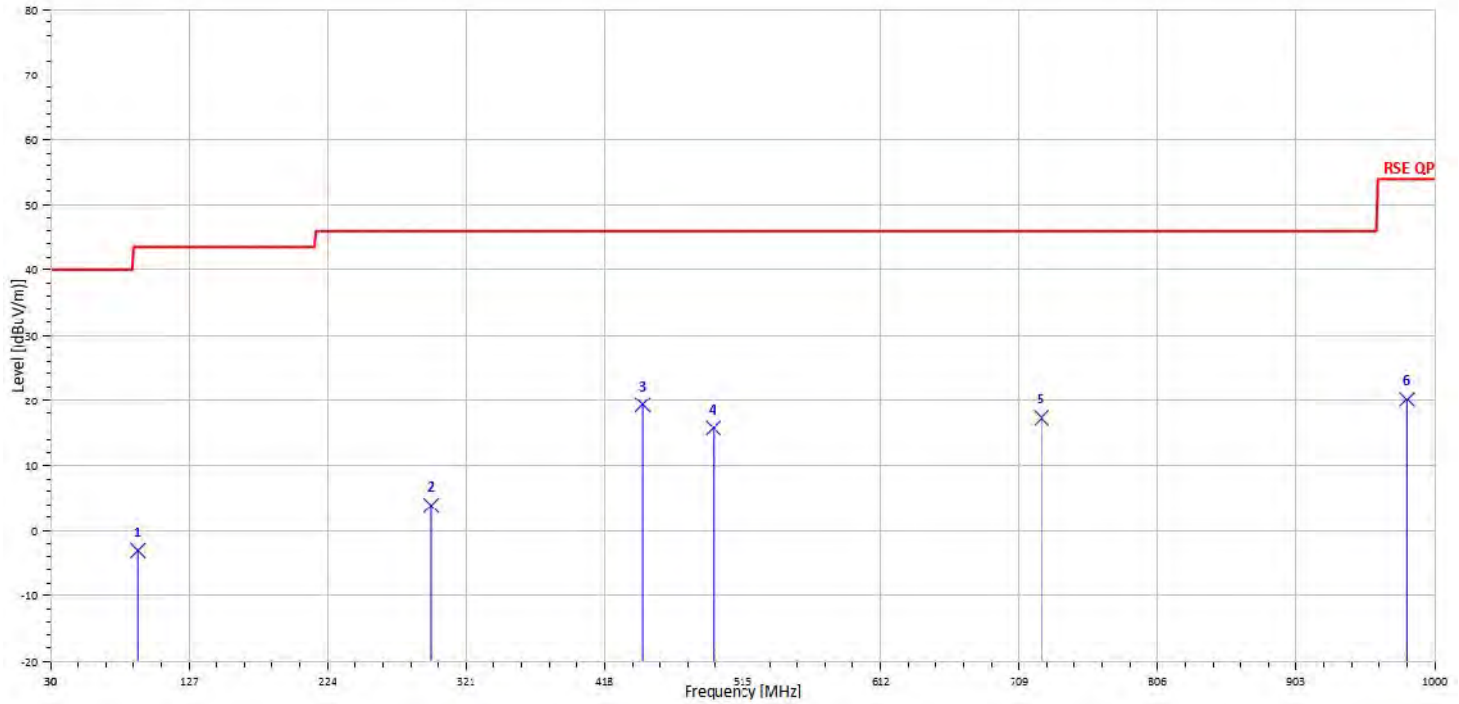
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## 802.11a, 5725~5850 MHz

Operation Mode :	802.11aB4	Test Date :	2017/10/20
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH MID	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



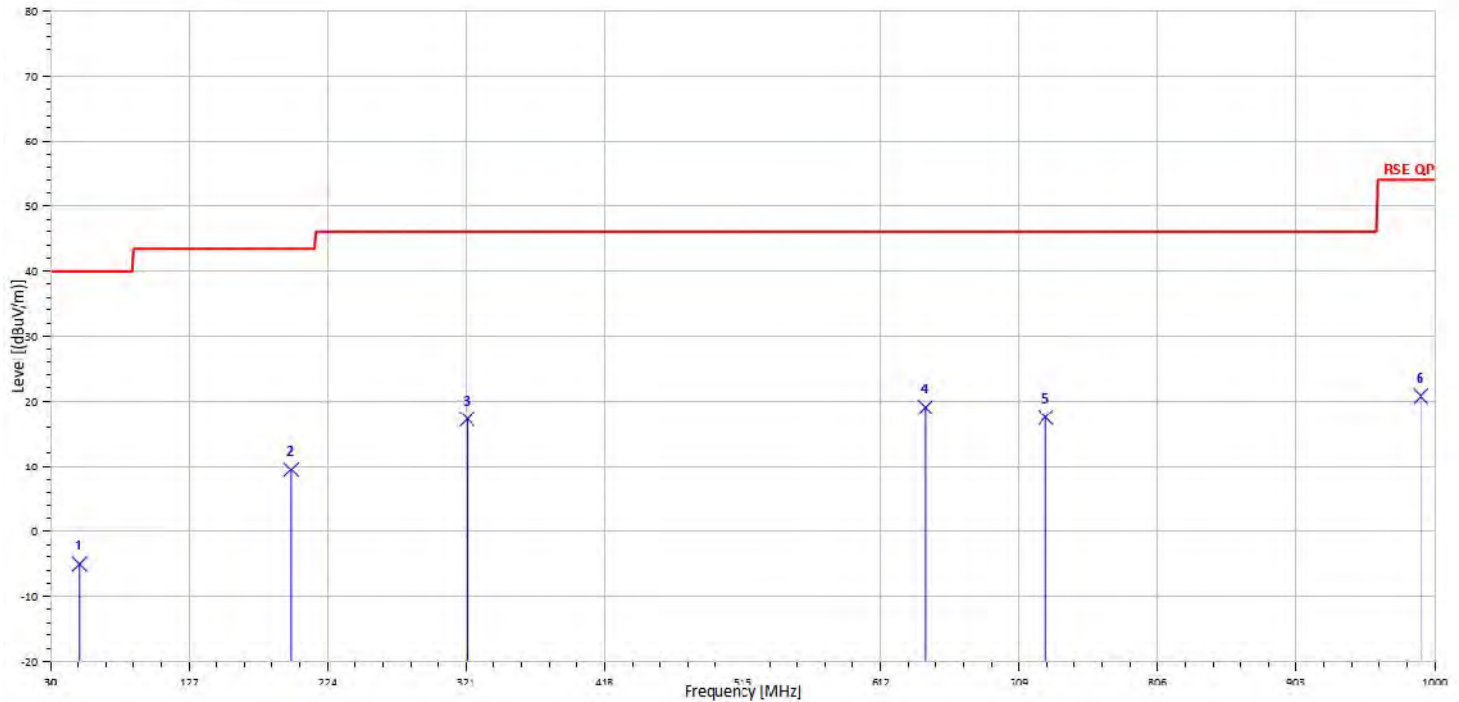
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
91.11	S	Peak	19.63	-22.66	-3.03	43.5	-46.53
296.75	S	Peak	19.27	-15.40	3.87	46	-42.13
445.16	S	Peak	31.55	-12.20	19.34	46	-26.66
494.63	S	Peak	27.10	-11.33	15.77	46	-30.23
724.52	S	Peak	24.96	-7.62	17.34	46	-28.66
980.60	S	Peak	24.19	-4.06	20.13	54	-33.87

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Operation Mode : 802.11aB4      Test Date : 2017/10/20  
 Fundamental Frequency : 5785 MHz      Temp. / Humi. : 22.8deg\_C/59RH  
 Operation Band : TX CH MID      Test Engineer : Enzo  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
50.37	S	Peak	12.21	-17.24	-5.03	40	-45.03
198.78	S	Peak	28.13	-18.65	9.48	43.5	-34.02
321.97	S	Peak	31.95	-14.67	17.28	46	-28.72
643.04	S	Peak	27.14	-8.07	19.06	46	-26.94
727.43	S	Peak	25.21	-7.68	17.53	46	-28.47
990.30	S	Peak	24.82	-4.08	20.74	54	-33.26

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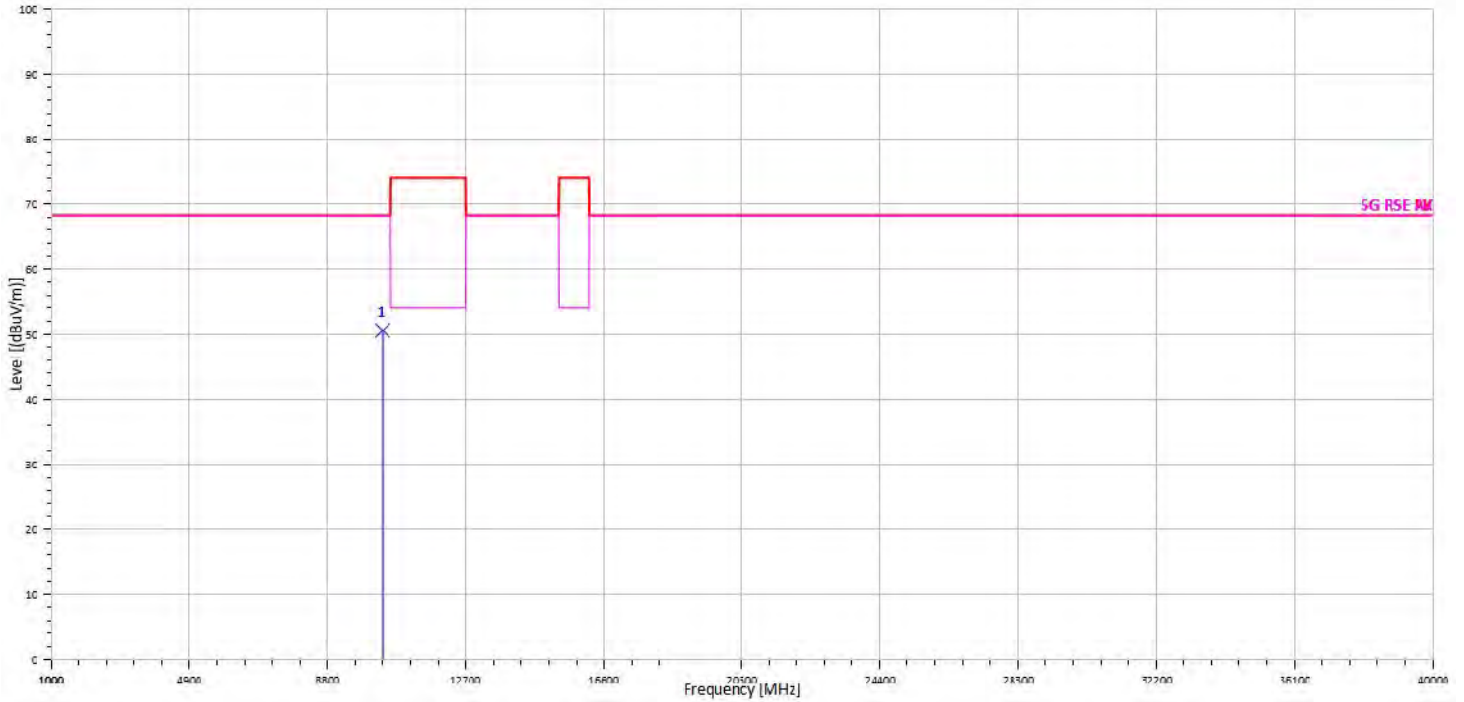
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**Above 1GHz Worst-Case Data:**

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

Operation Mode :	802.11aB1	Test Date :	2017/10/16
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



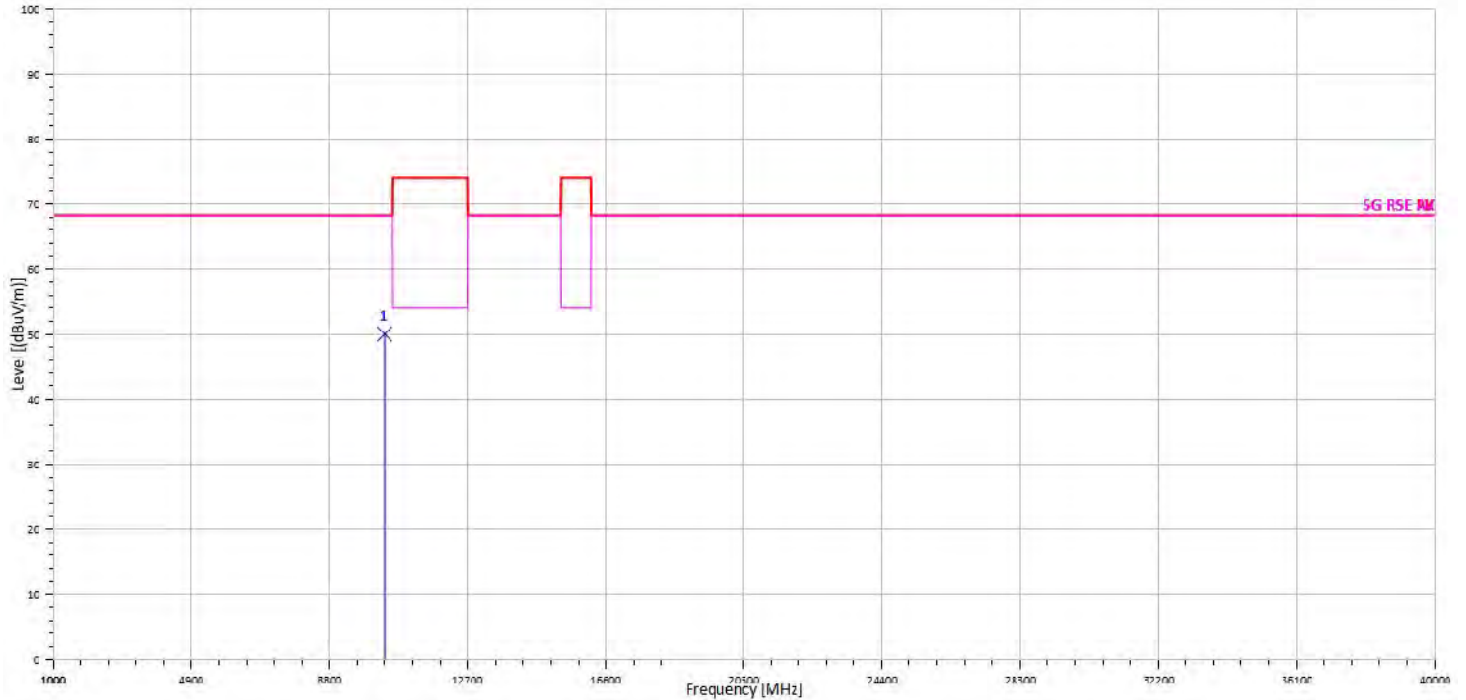
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10360.00	H	Peak	41.28	9.27	50.55	68.3	-17.75

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Operation Mode :	802.11aB1	Test Date :	2017/10/16
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10360.00	H	Peak	40.74	9.27	50.01	68.3	-18.29

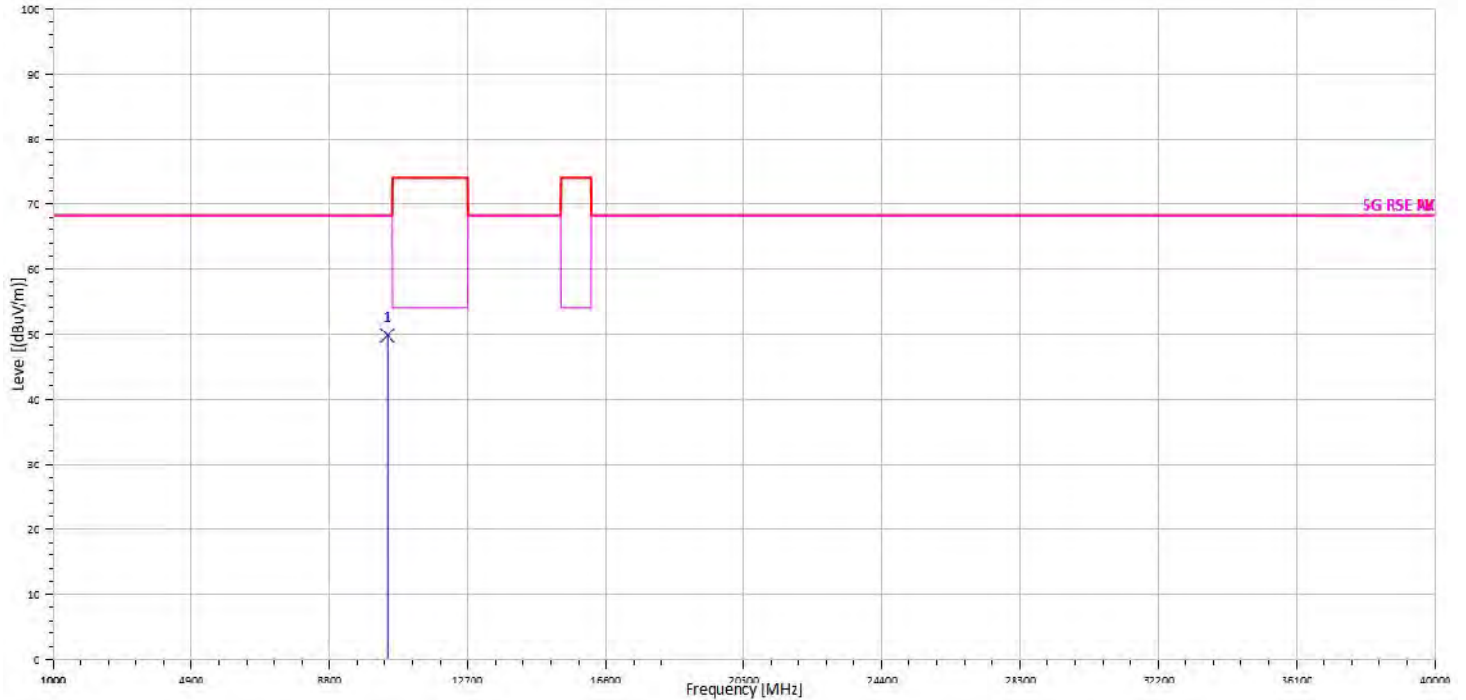
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Operation Mode :	802.11aB1	Test Date :	2017/10/16
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH MID	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



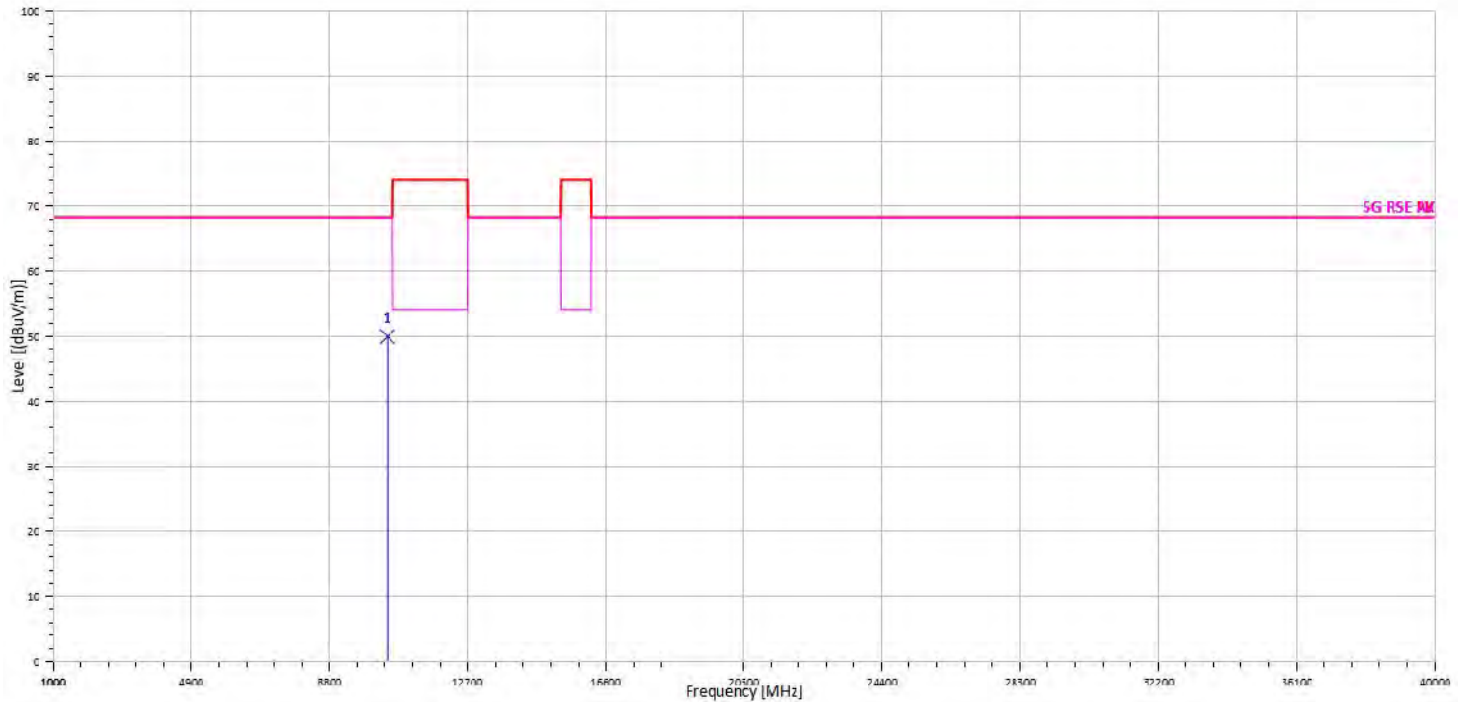
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10440.00	H	Peak	40.23	9.57	49.80	68.3	-18.50

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Operation Mode : 802.11aB1 Test Date : 2017/10/16  
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.8deg\_C/59RH  
 Operation Band : TX CH MID Test Engineer : Enzo  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



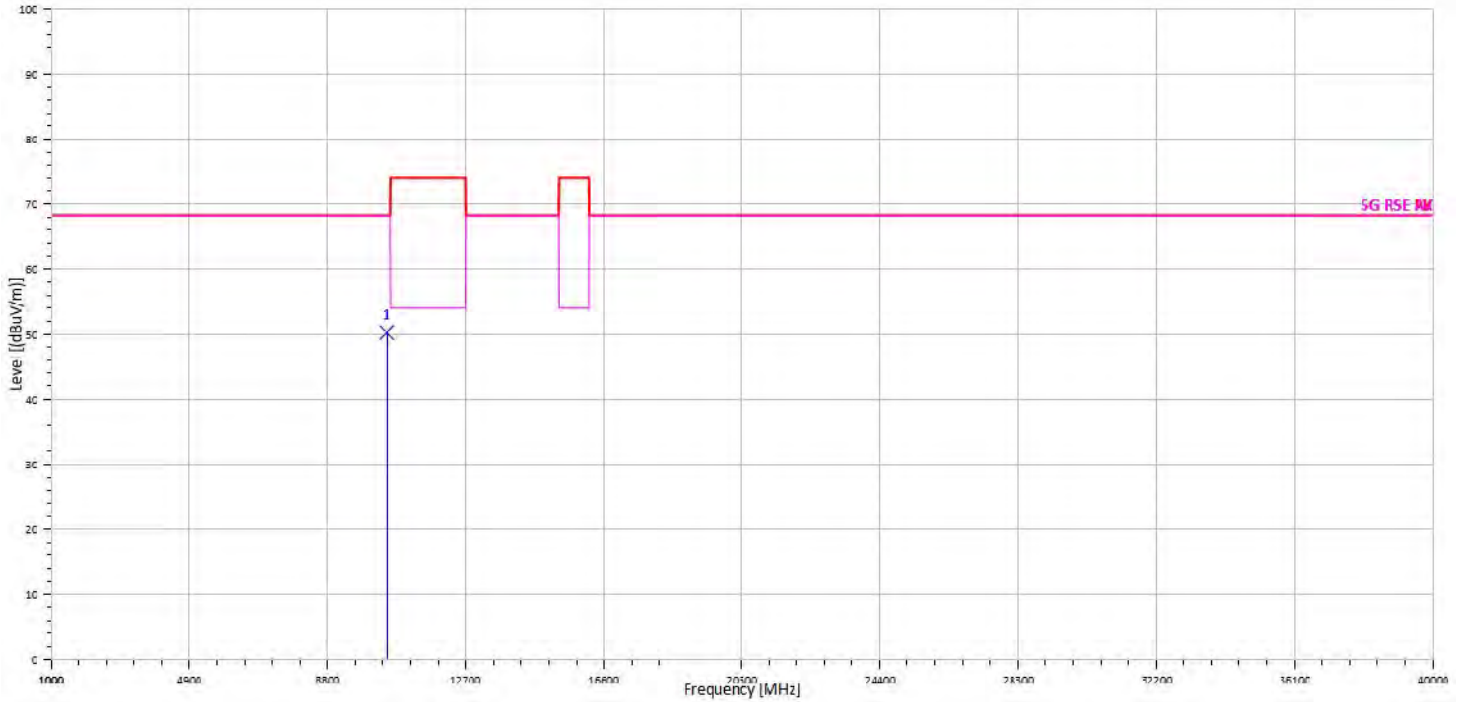
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10440.00	H	Peak	40.37	9.57	49.94	68.3	-18.36

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Operation Mode : 802.11aB1      Test Date : 2017/10/16  
 Fundamental Frequency : 5240 MHz      Temp. / Humi. : 22.8deg\_C/59RH  
 Operation Band : TX CH HIGH      Test Engineer : Enzo  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



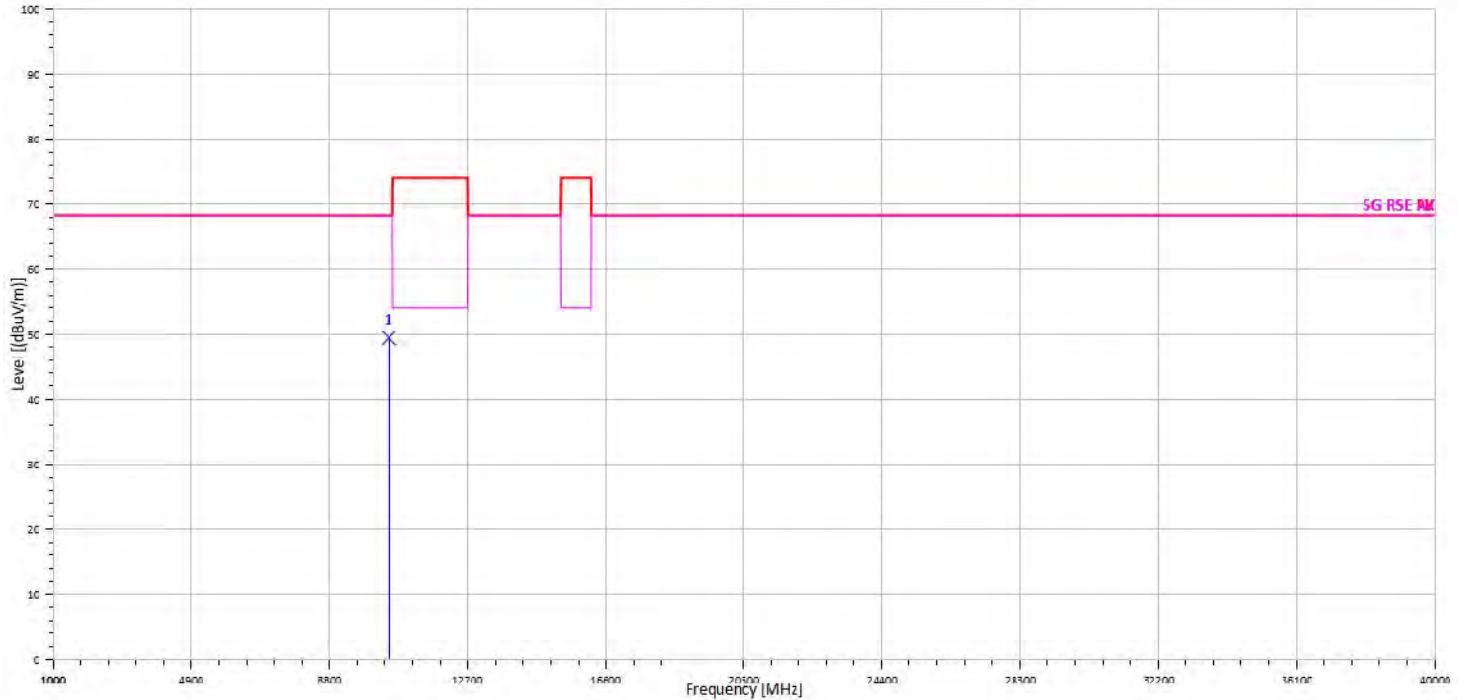
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10480.00	H	Peak	40.61	9.64	50.25	68.3	-18.05

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Operation Mode : 802.11aB1      Test Date : 2017/10/16  
 Fundamental Frequency : 5240 MHz      Temp. / Humi. : 22.8deg\_C/59RH  
 Operation Band : TX CH HIGH      Test Engineer : Enzo  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10480.00	H	Peak	39.77	9.64	49.42	68.3	-18.88

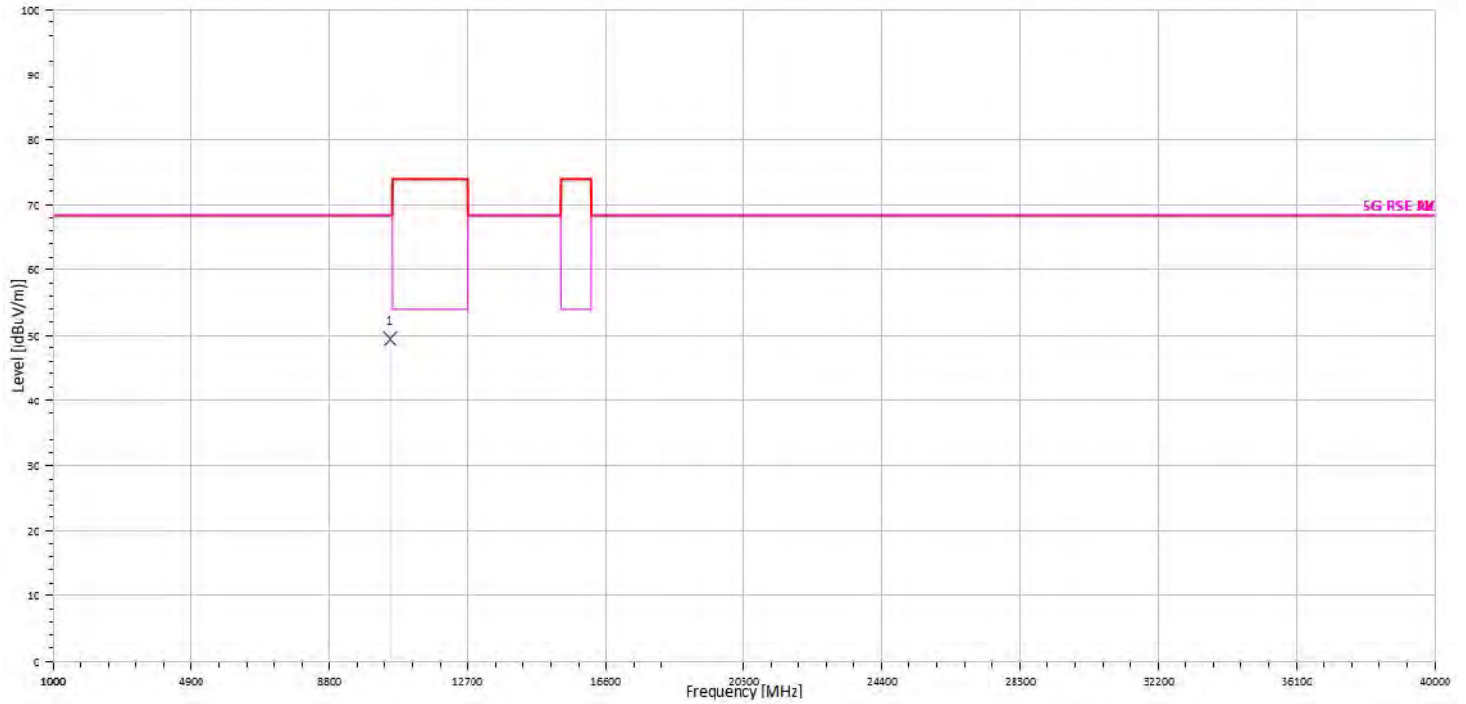
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### Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode :	802.11aB2	Test Date :	2017/10/16
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



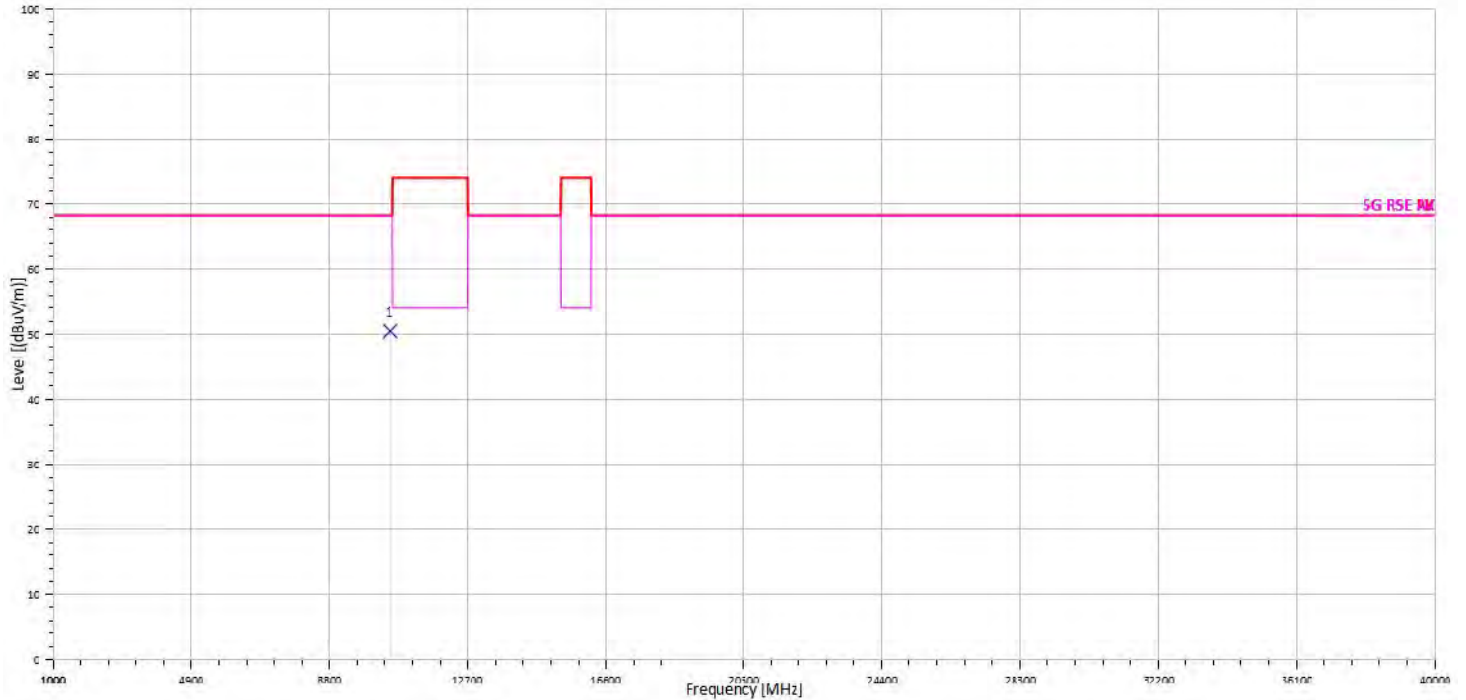
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	H	Peak	39.68	9.77	49.45	68.3	-18.85

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Operation Mode :	802.11aB2	Test Date :	2017/10/16
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



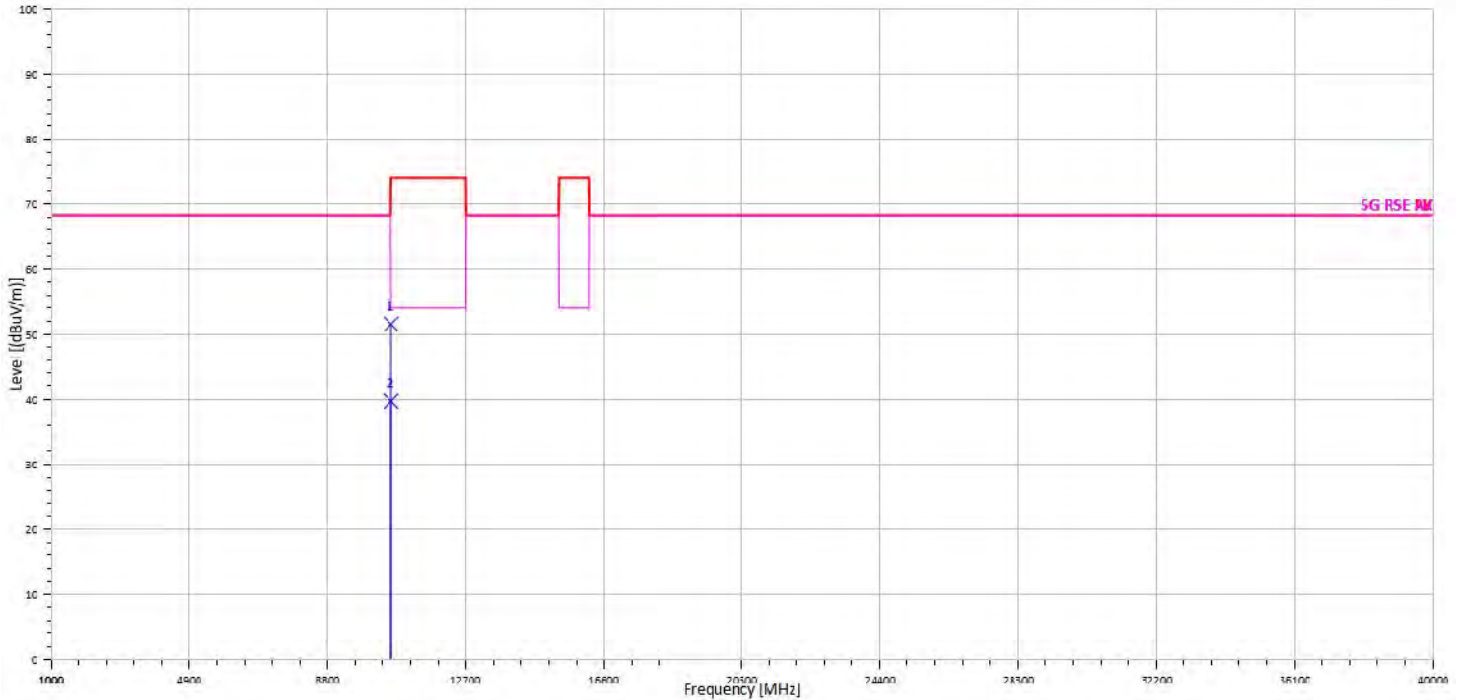
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10520.00	H	Peak	40.70	9.77	50.47	68.3	-17.83

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Operation Mode : 802.11aB2      Test Date : 2017/10/16  
 Fundamental Frequency : 5300 MHz      Temp. / Humi. : 22.8deg\_C/59RH  
 Operation Band : TX CH MID      Test Engineer : Enzo  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



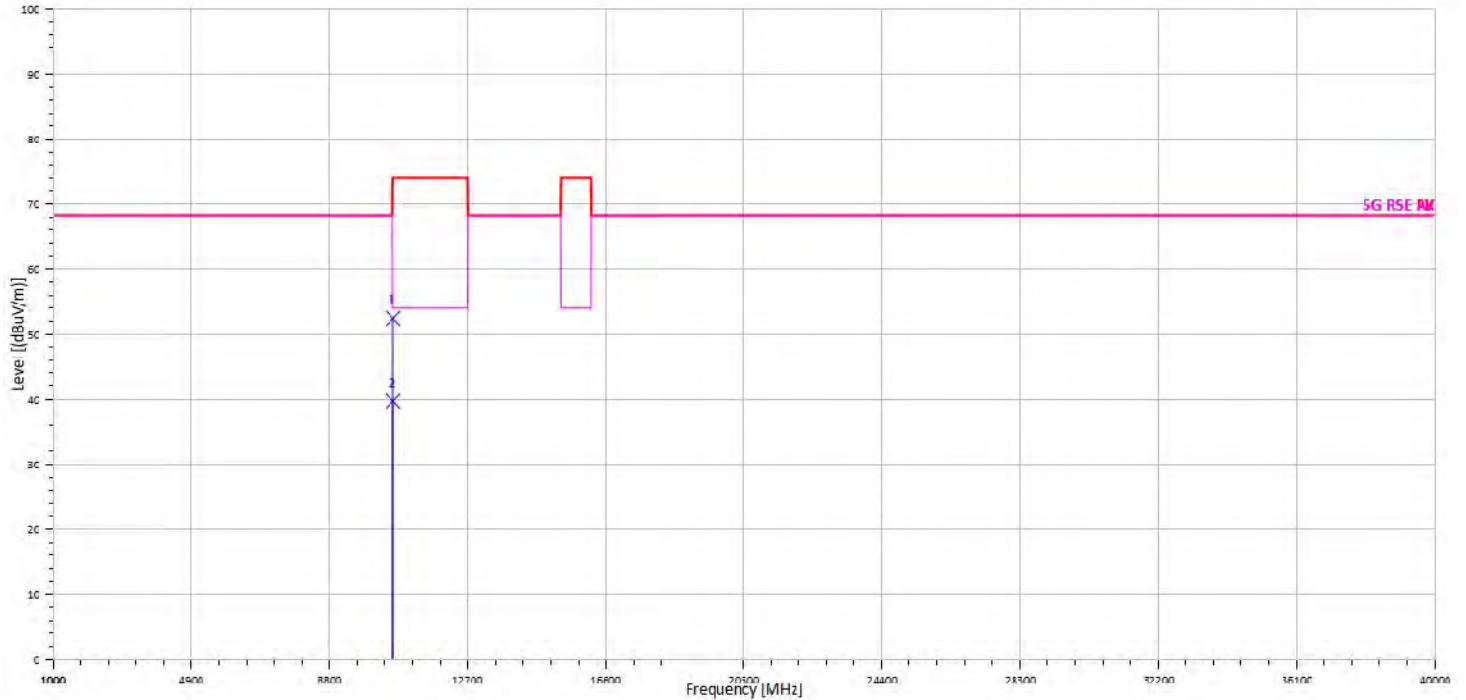
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10600.00	H	Peak	41.40	10.15	51.55	74	-22.45
10600.00	H	Average	29.57	10.15	39.72	54	-14.28

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Operation Mode : 802.11aB2      Test Date : 2017/10/16  
 Fundamental Frequency : 5300 MHz      Temp. / Humi. : 22.8deg\_C/59RH  
 Operation Band : TX CH MID      Test Engineer : Enzo  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10600.00	H	Peak	42.27	10.15	52.42	74	-21.58
10600.00	H	Average	29.58	10.15	39.73	54	-14.28

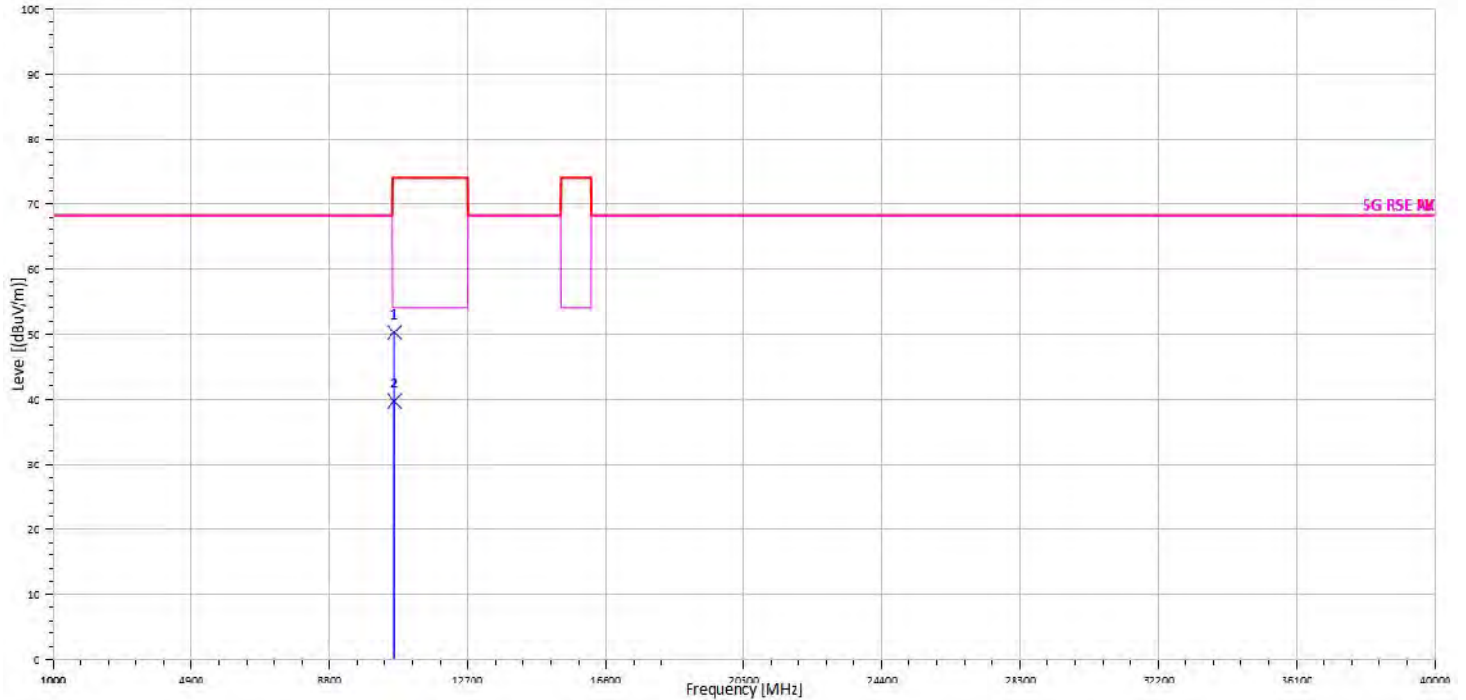
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Operation Mode : 802.11aB2      Test Date : 2017/10/16  
 Fundamental Frequency : 5320 MHz      Temp. / Humi. : 22.8deg\_C/59RH  
 Operation Band : TX CH HIGH      Test Engineer : Enzo  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



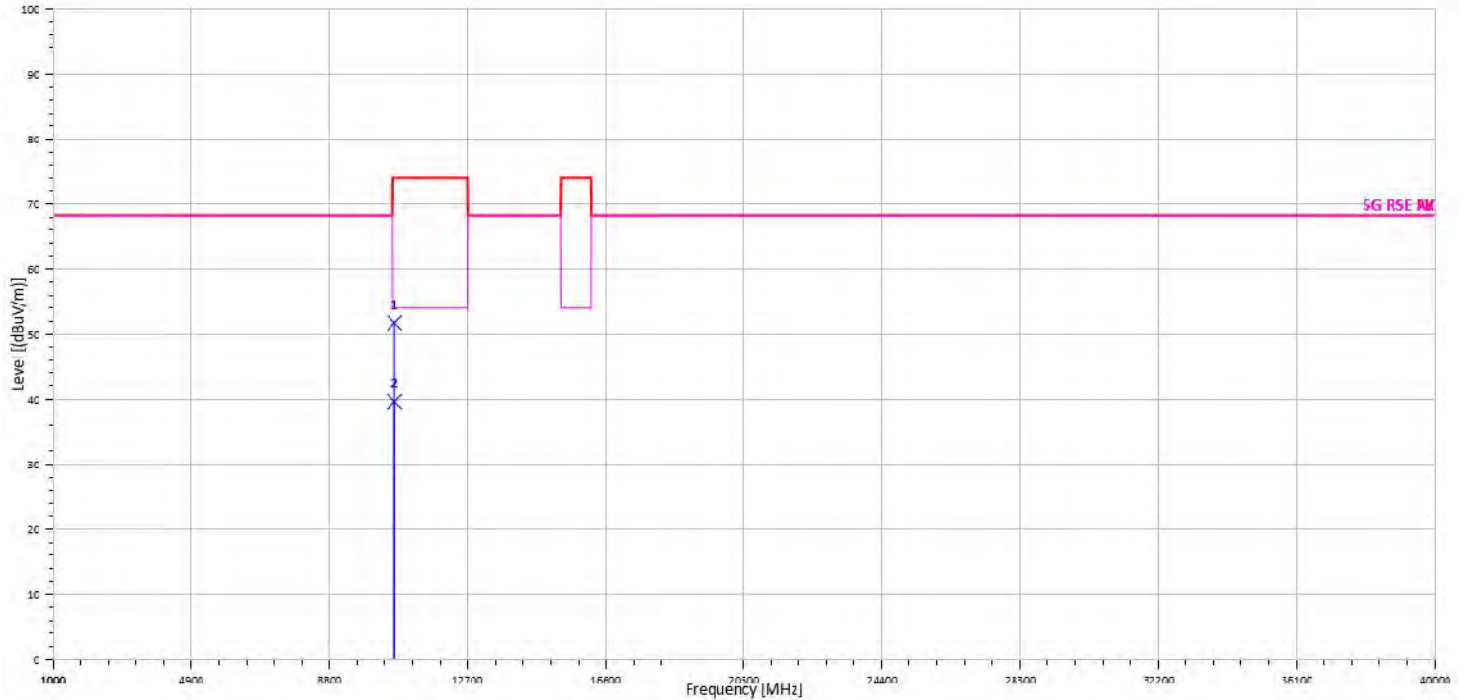
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10640.00	H	Peak	40.21	10.07	50.28	74	-23.72
10640.00	H	Average	29.66	10.07	39.73	54	-14.27

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Operation Mode : 802.11aB2      Test Date : 2017/10/16  
 Fundamental Frequency : 5320 MHz      Temp. / Humi. : 22.8deg\_C/59RH  
 Operation Band : TX CH HIGH      Test Engineer : Enzo  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10640.00	H	Peak	41.69	10.07	51.76	74	-22.24
10640.00	H	Average	29.57	10.07	39.64	54	-14.36

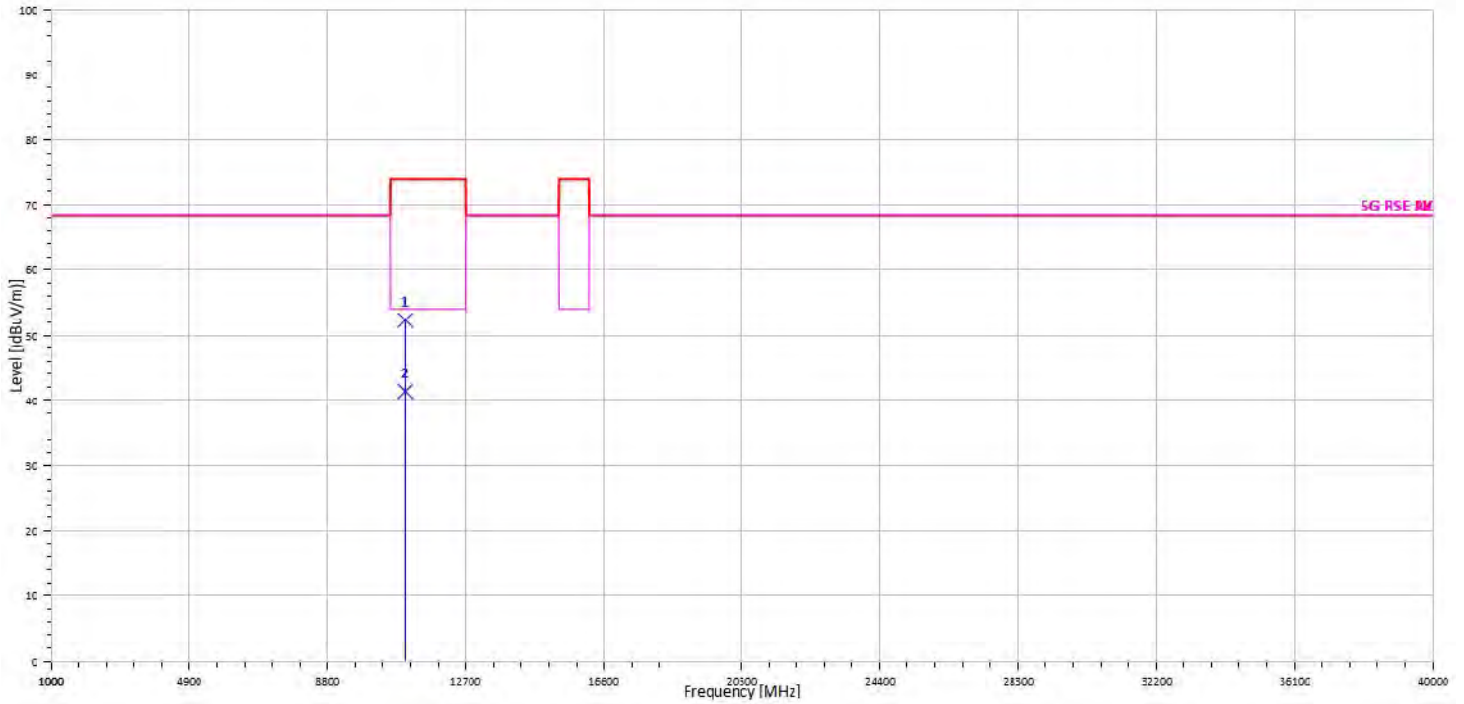
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### Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode :	802.11aB3	Test Date :	2017/10/16
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



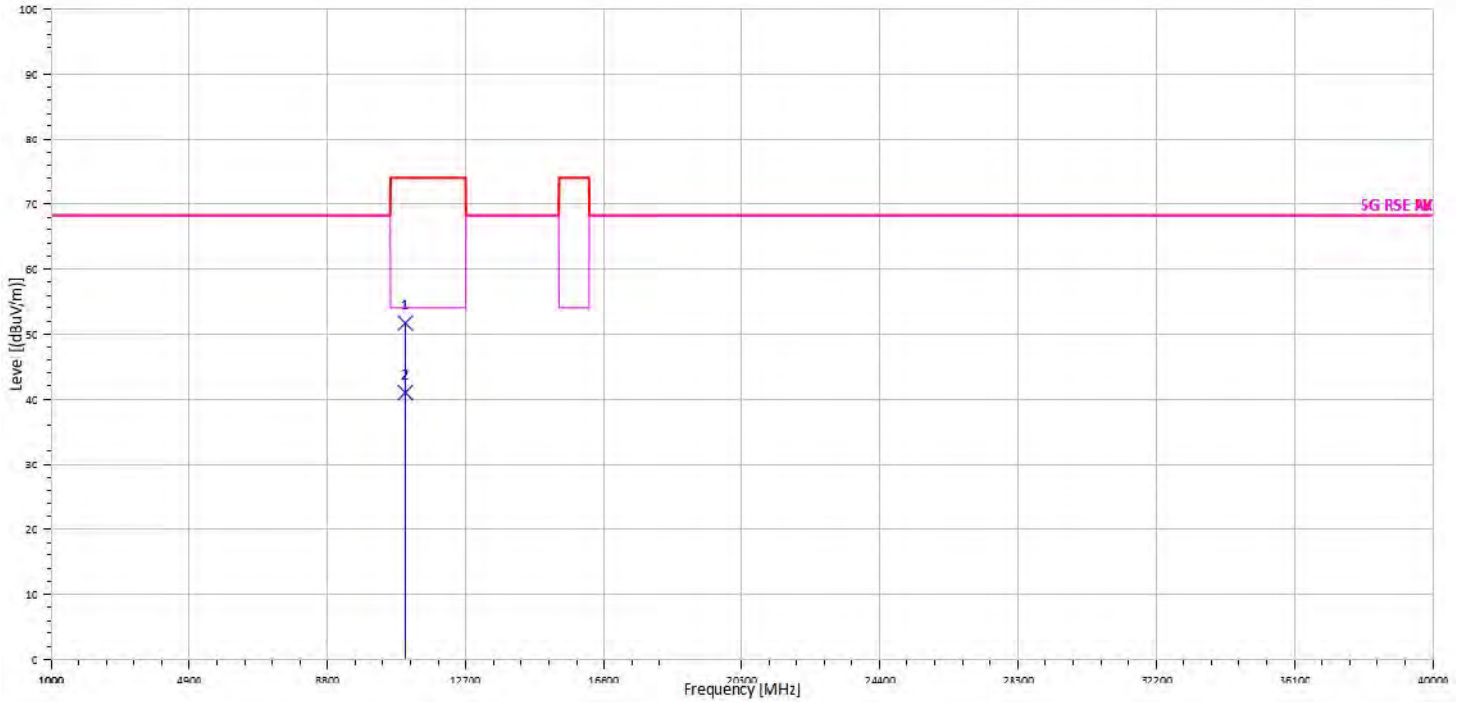
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11000.00	H	Peak	40.60	11.71	52.31	74	-21.69
11000.00	H	Average	29.67	11.71	41.38	54	-12.62

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Operation Mode :	802.11aB3	Test Date :	2017/10/16
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



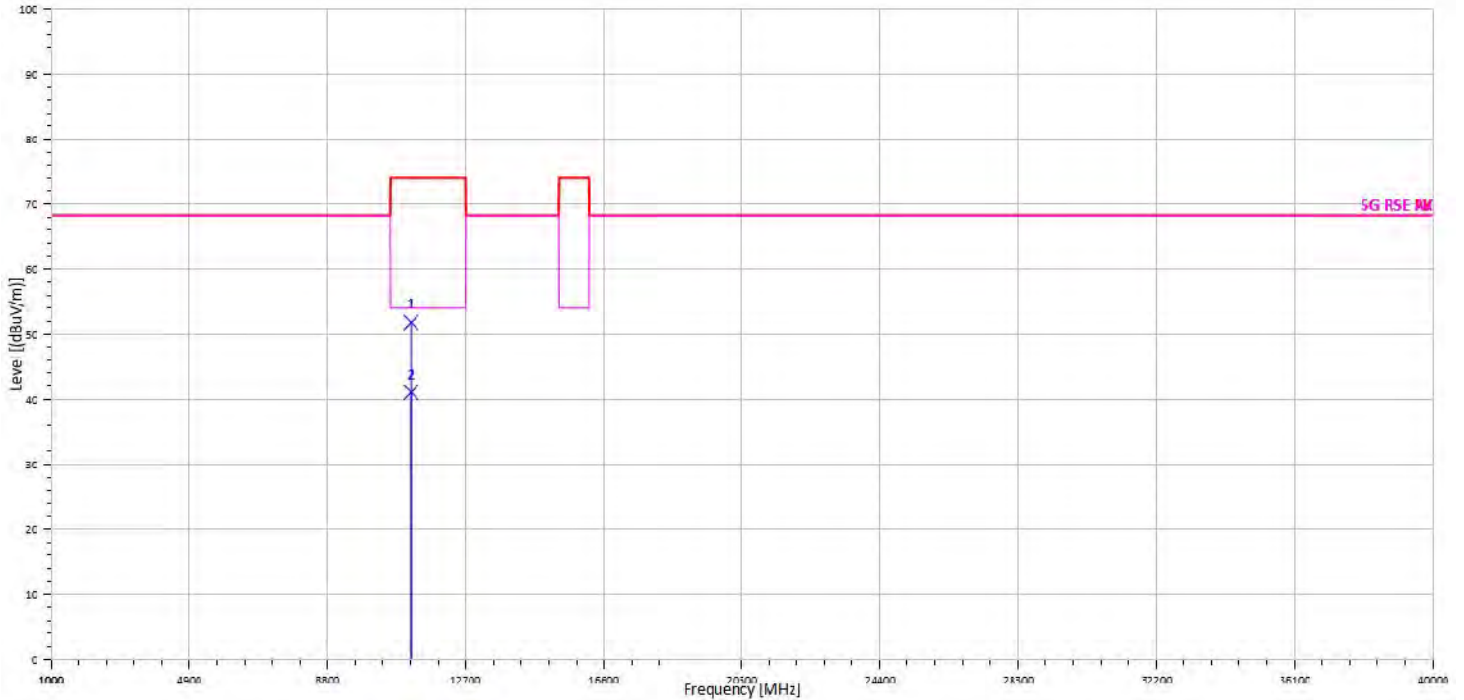
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11000.00	H	Peak	40.04	11.71	51.75	74	-22.25
11000.00	H	Average	29.27	11.71	40.98	54	-13.02

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Operation Mode :	802.11aB3	Test Date :	2017/10/16
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH MID	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



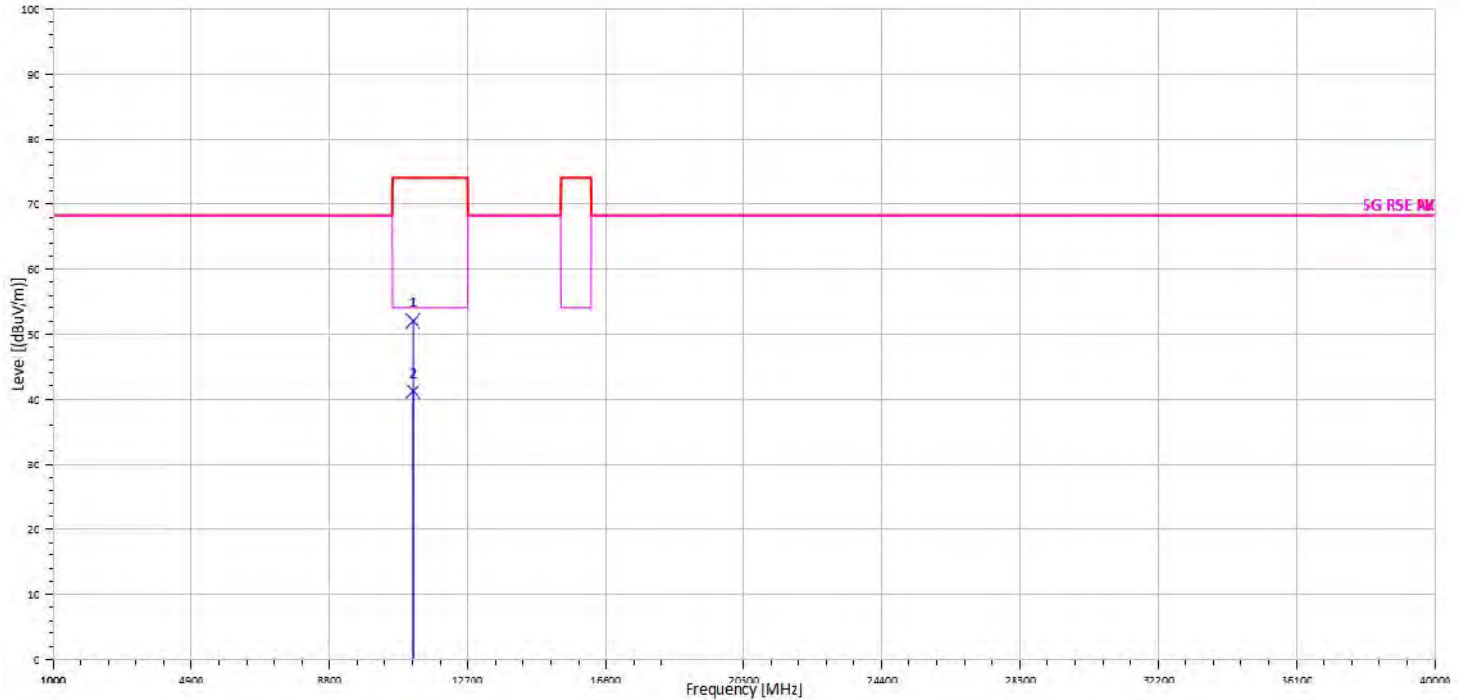
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11160.00	H	Peak	40.31	11.51	51.82	74	-22.18
11160.00	H	Average	29.55	11.51	41.06	54	-12.94

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Operation Mode : 802.11aB3 Test Date : 2017/10/16  
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.8deg\_C/59RH  
 Operation Band : TX CH MID Test Engineer : Enzo  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



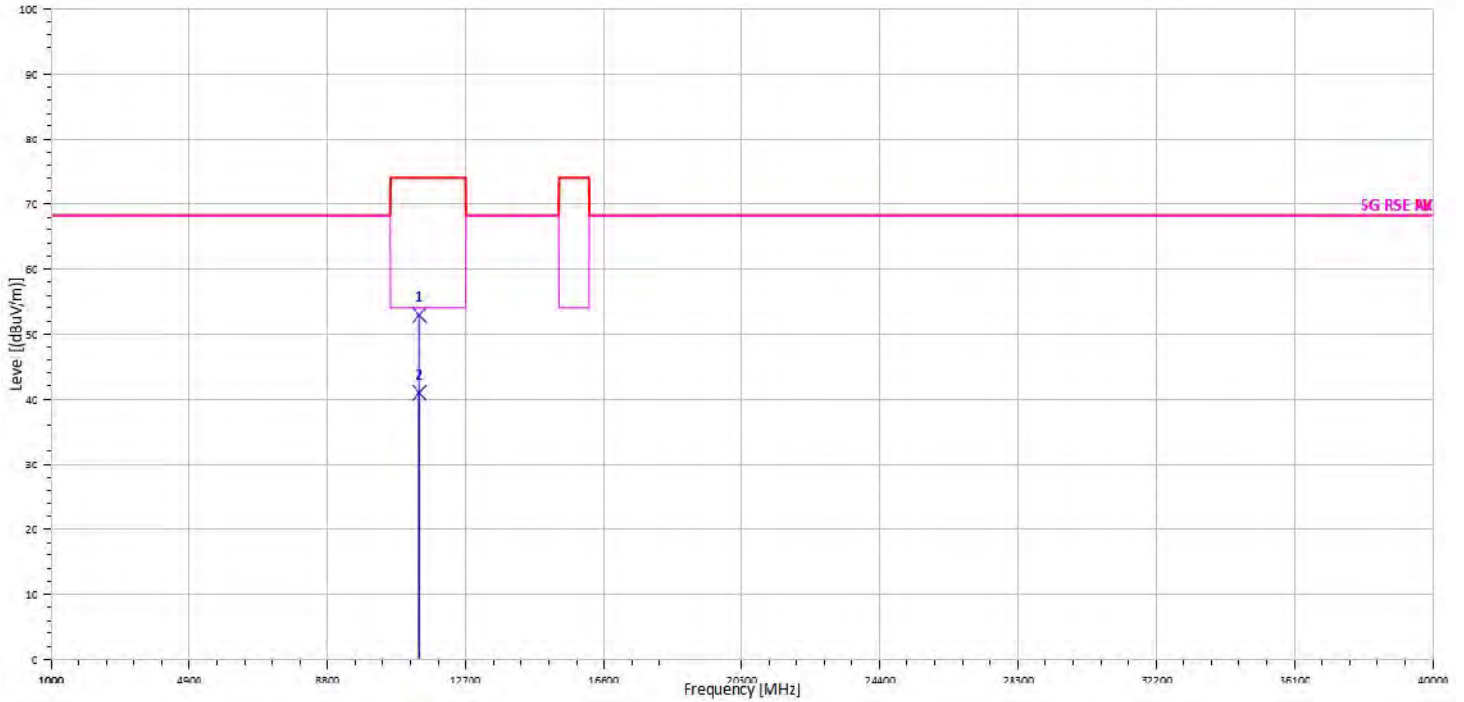
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11160.00	H	Peak	40.54	11.51	52.05	74	-21.95
11160.00	H	Average	29.70	11.51	41.21	54	-12.79

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Operation Mode :	802.11aB3	Test Date :	2017/10/16
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



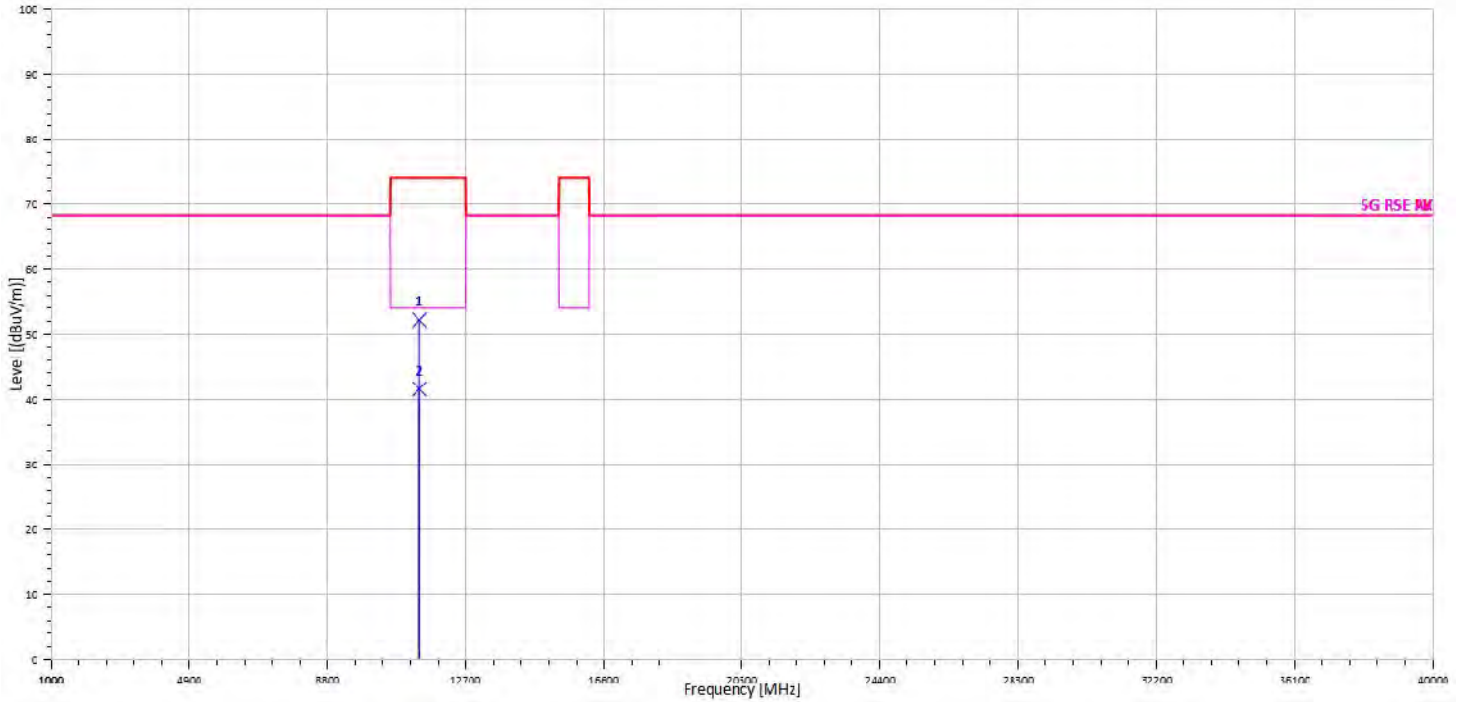
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	H	Peak	41.32	11.60	52.92	74	-21.08
11400.00	H	Average	29.35	11.60	40.95	54	-13.05

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Operation Mode :	802.11aB3	Test Date :	2017/10/16
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11400.00	H	Peak	40.58	11.60	52.18	74	-21.82
11400.00	H	Average	29.99	11.60	41.59	54	-12.42

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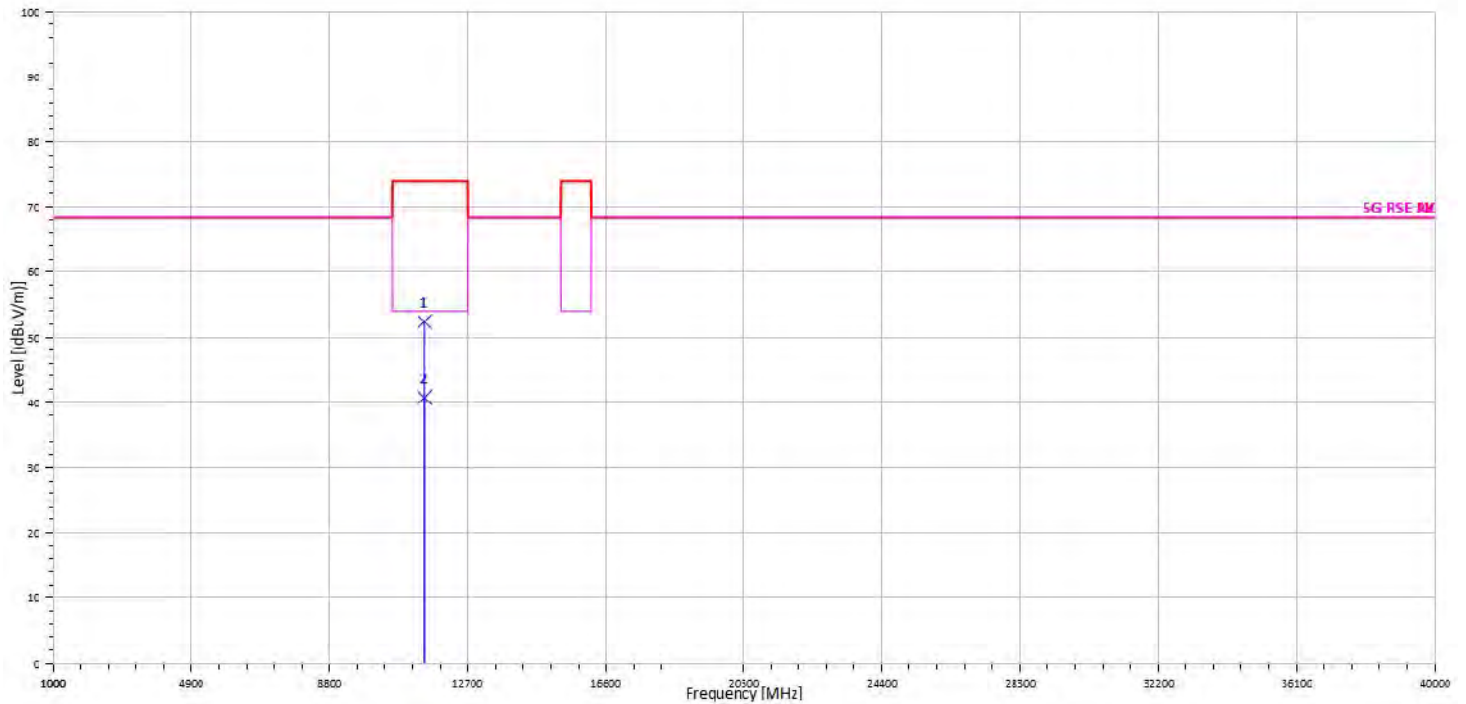
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### Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode :	802.11aB4	Test Date :	2017/10/16
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



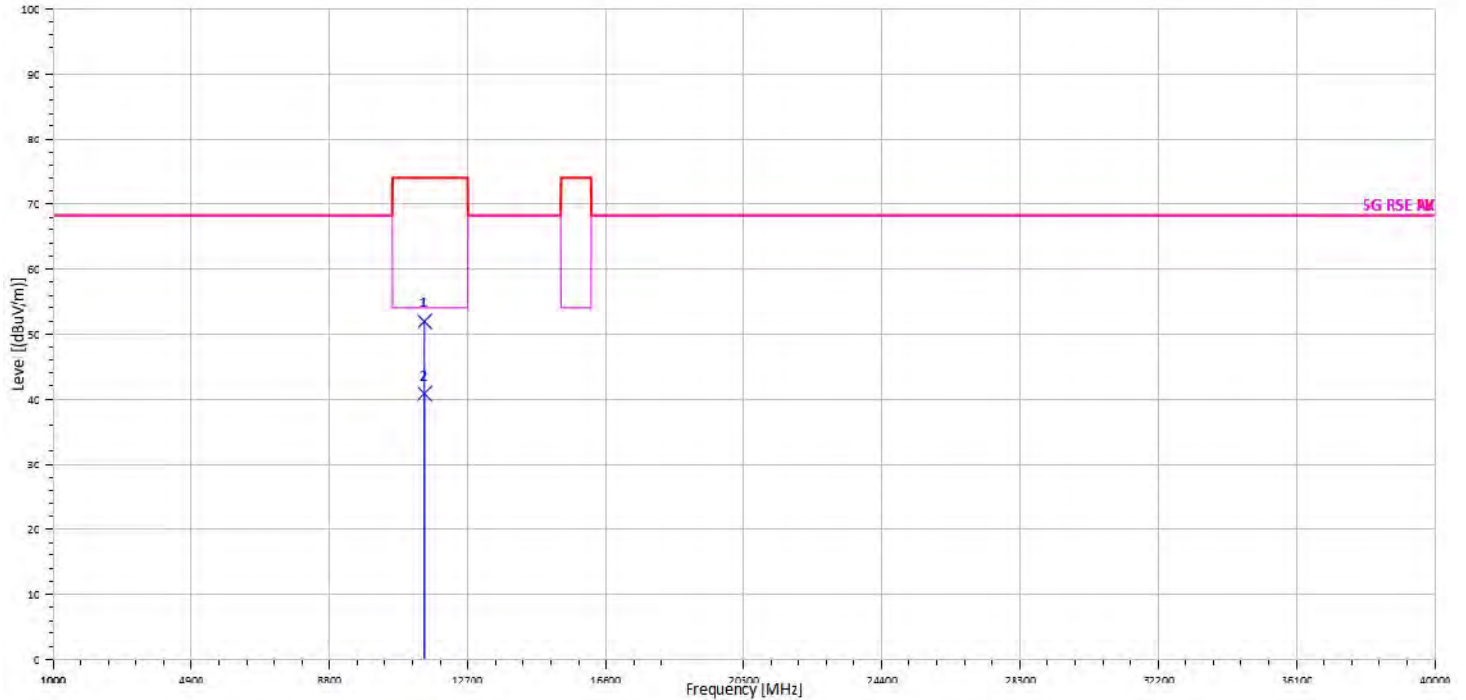
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11490.00	H	Peak	41.20	11.18	52.38	74	-21.62
11490.00	H	Average	29.56	11.18	40.74	54	-13.27

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Operation Mode :	802.11aB4	Test Date :	2017/10/16
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



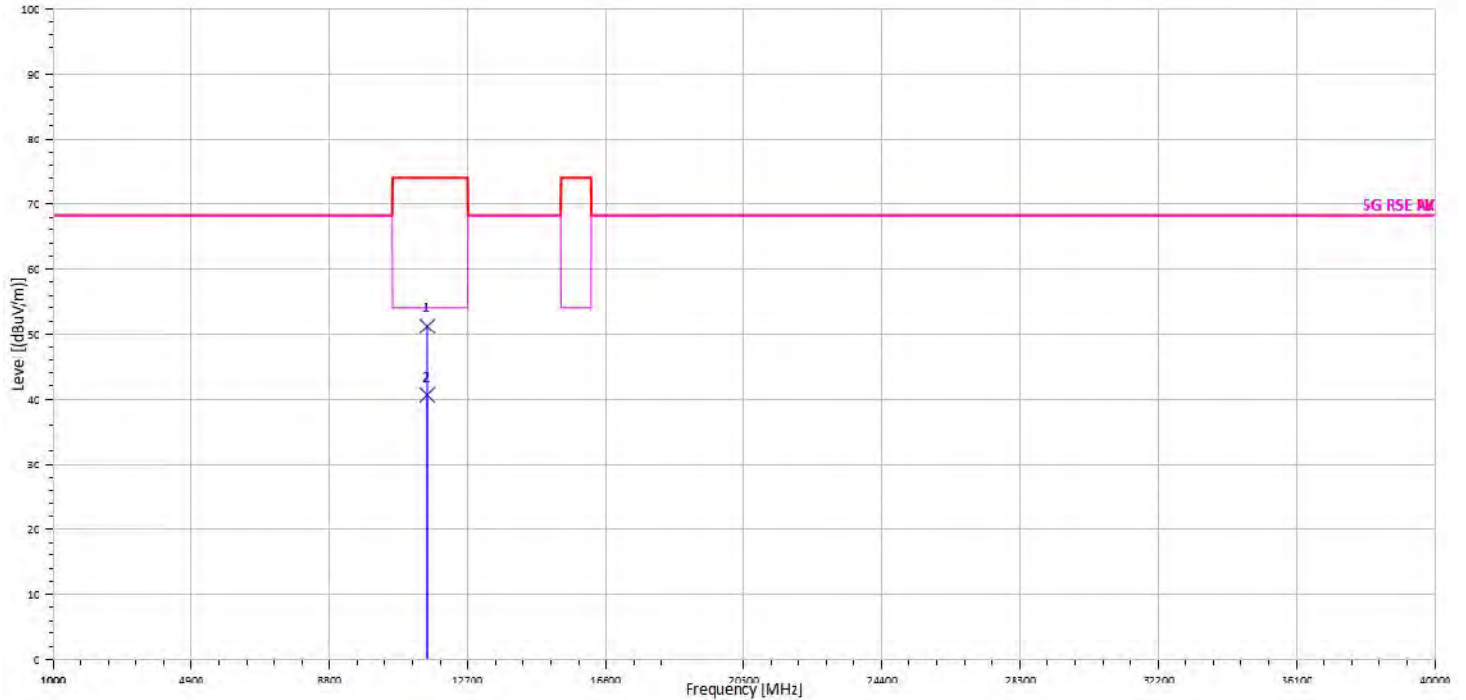
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11490.00	H	Peak	40.81	11.18	51.99	74	-22.01
11490.00	H	Average	29.66	11.18	40.84	54	-13.16

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Operation Mode : 802.11aB4      Test Date : 2017/10/16  
 Fundamental Frequency : 5785 MHz      Temp. / Humi. : 22.8deg\_C/59RH  
 Operation Band : TX CH MID      Test Engineer : Enzo  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



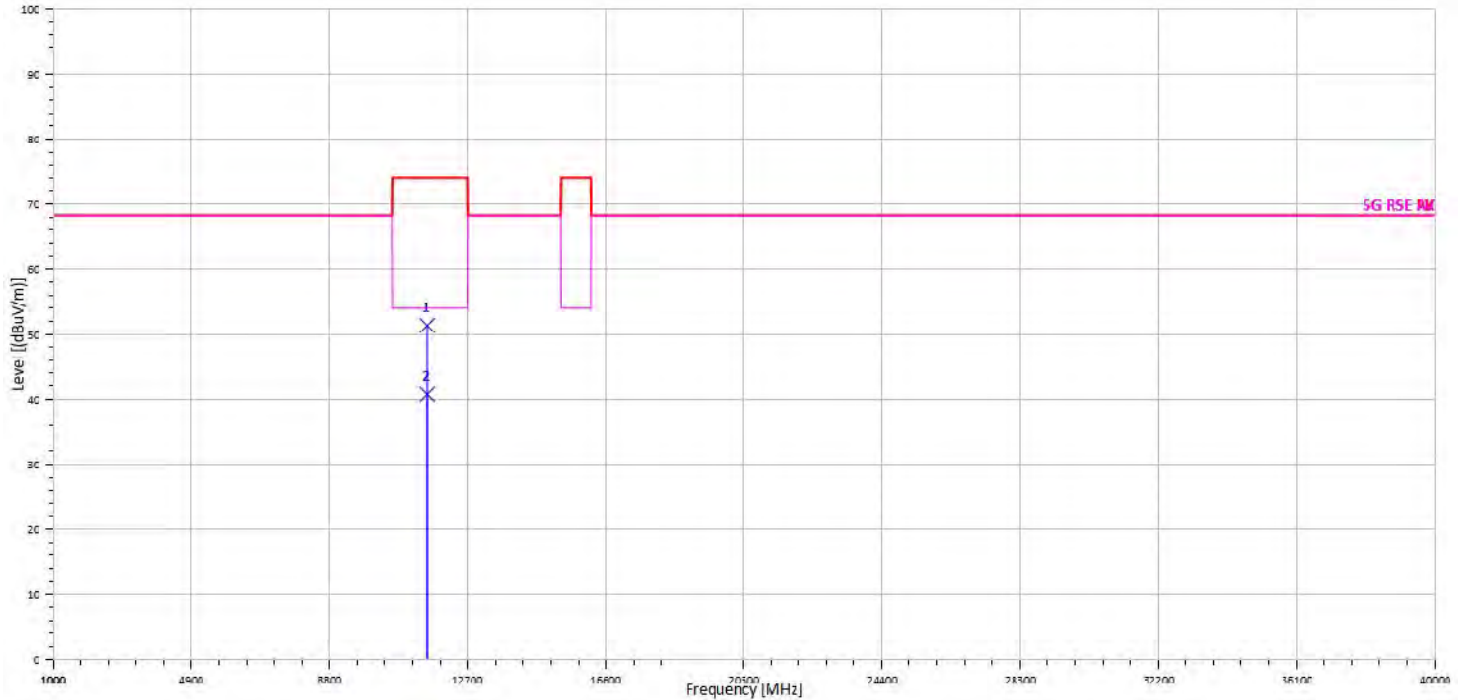
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11570.00	H	Peak	40.16	11.06	51.22	74	-22.78
11570.00	H	Average	29.58	11.06	40.64	54	-13.36

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Operation Mode : 802.11aB4      Test Date : 2017/10/16  
 Fundamental Frequency : 5785 MHz      Temp. / Humi. : 22.8deg\_C/59RH  
 Operation Band : TX CH MID      Test Engineer : Enzo  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



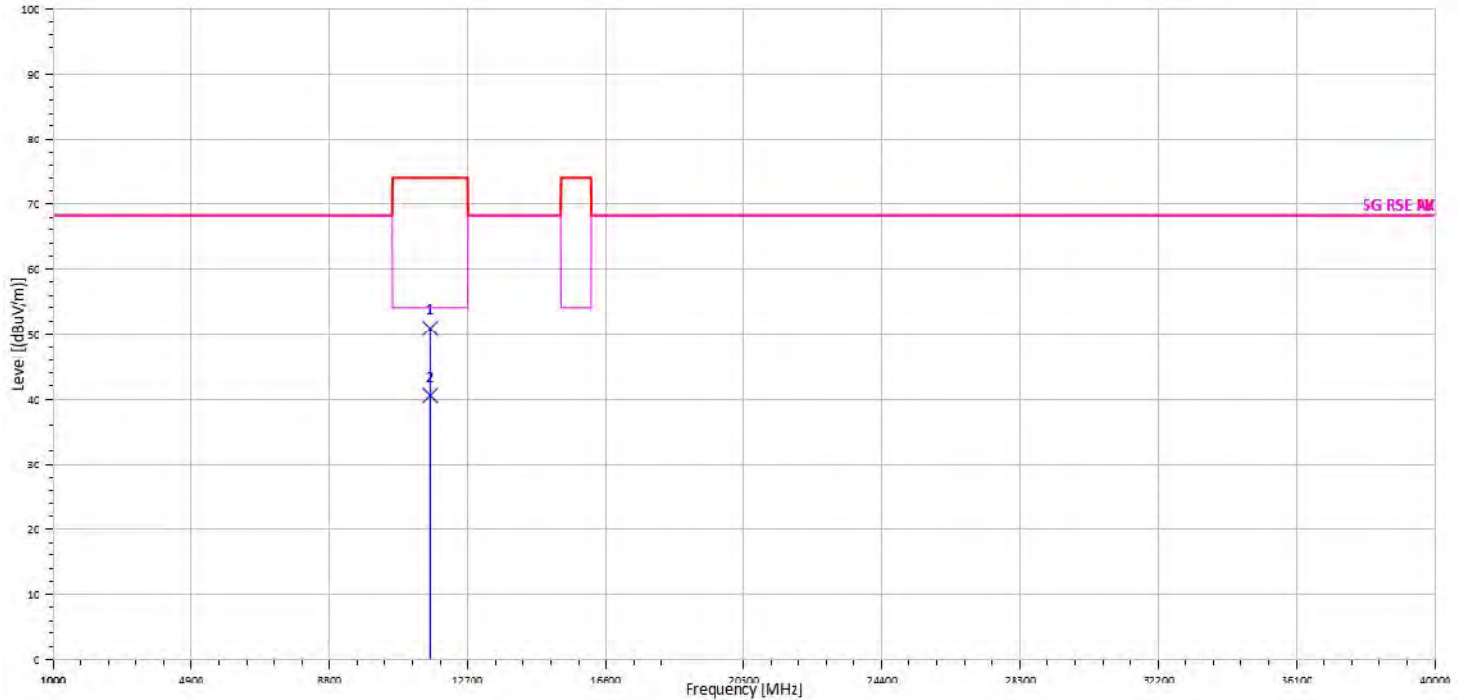
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11570.00	H	Peak	40.27	11.06	51.33	74	-22.67
11570.00	H	Average	29.68	11.06	40.74	54	-13.26

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Operation Mode :	802.11aB4	Test Date :	2017/10/16
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



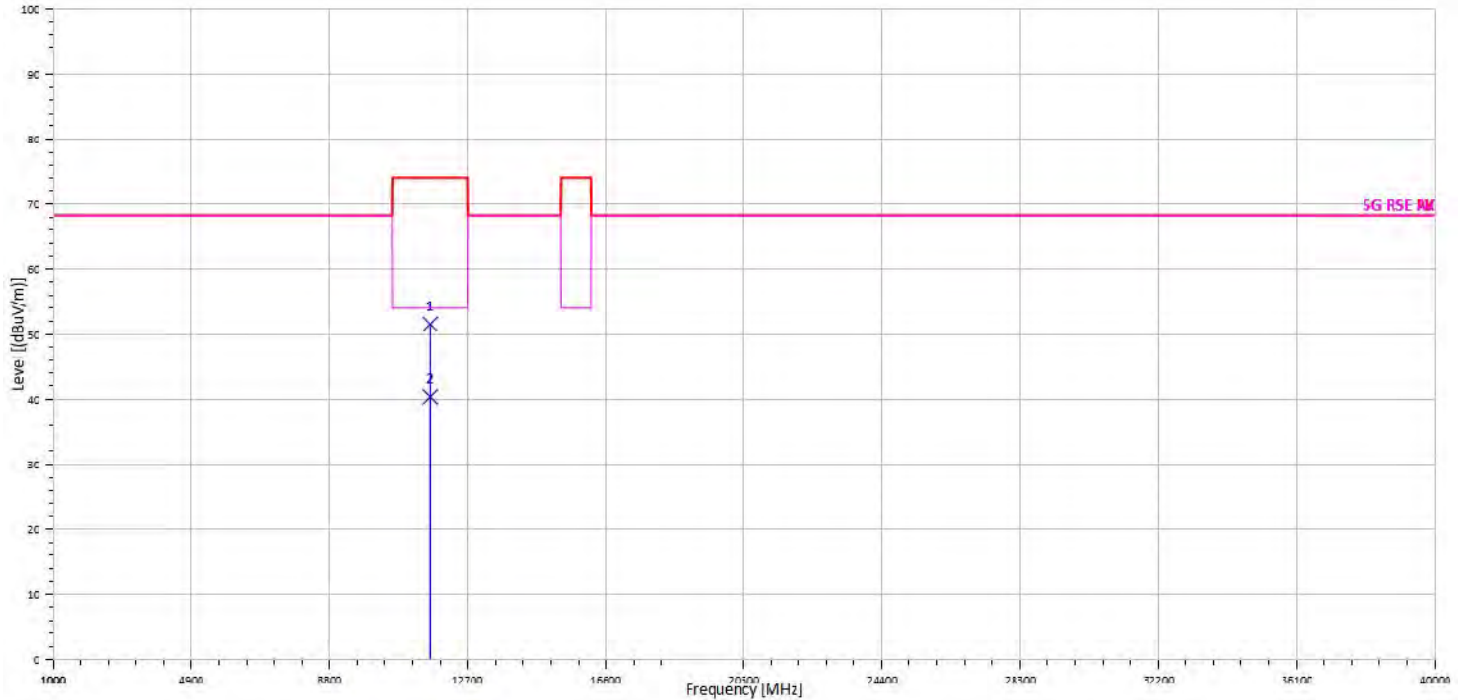
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11650.00	H	Peak	40.21	10.69	50.90	74	-23.10
11650.00	H	Average	29.88	10.69	40.56	54	-13.44

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Operation Mode : 802.11aB4      Test Date : 2017/10/16  
 Fundamental Frequency : 5825 MHz      Temp. / Humi. : 22.8deg\_C/59RH  
 Operation Band : TX CH HIGH      Test Engineer : Enzo  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11650.00	H	Peak	40.85	10.69	51.54	74	-22.46
11650.00	H	Average	29.65	10.69	40.34	54	-13.66

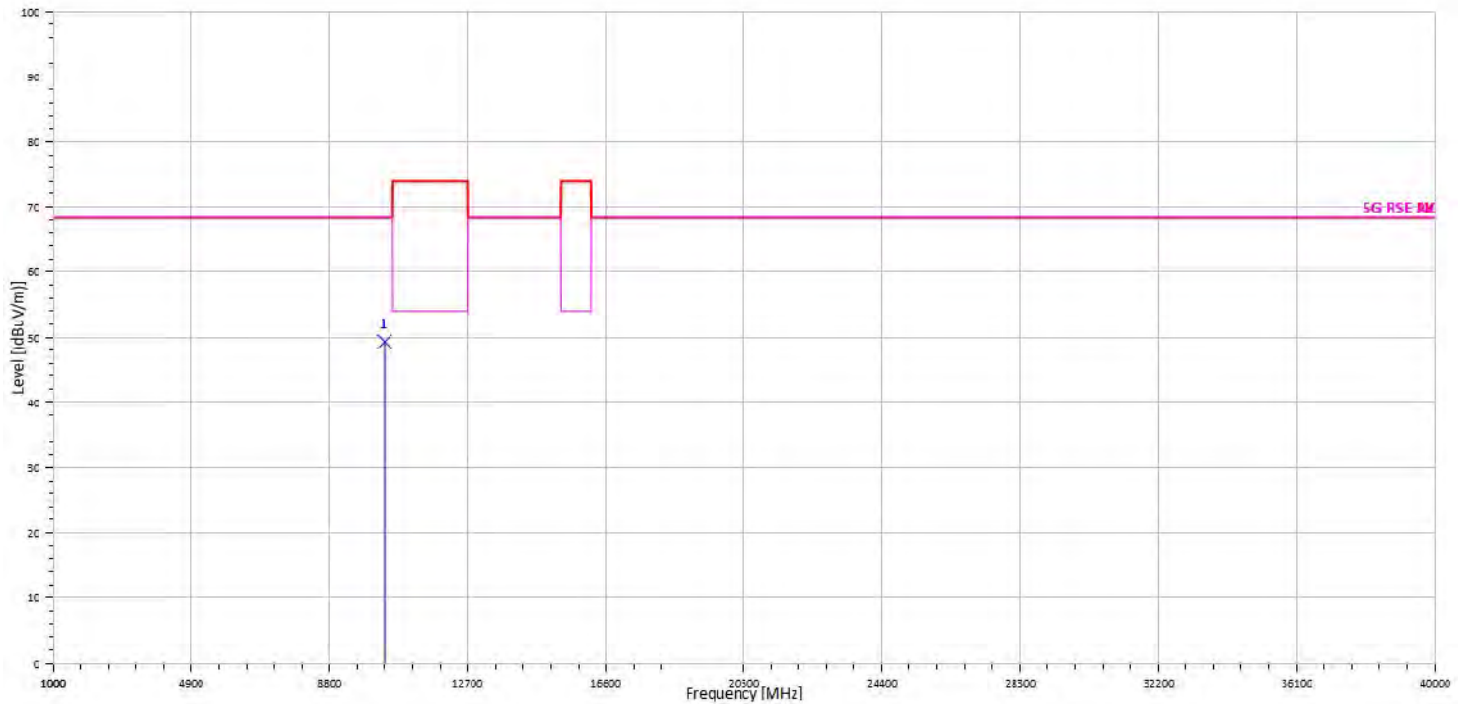
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode :	802.11n20B1	Test Date :	2017/10/16
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



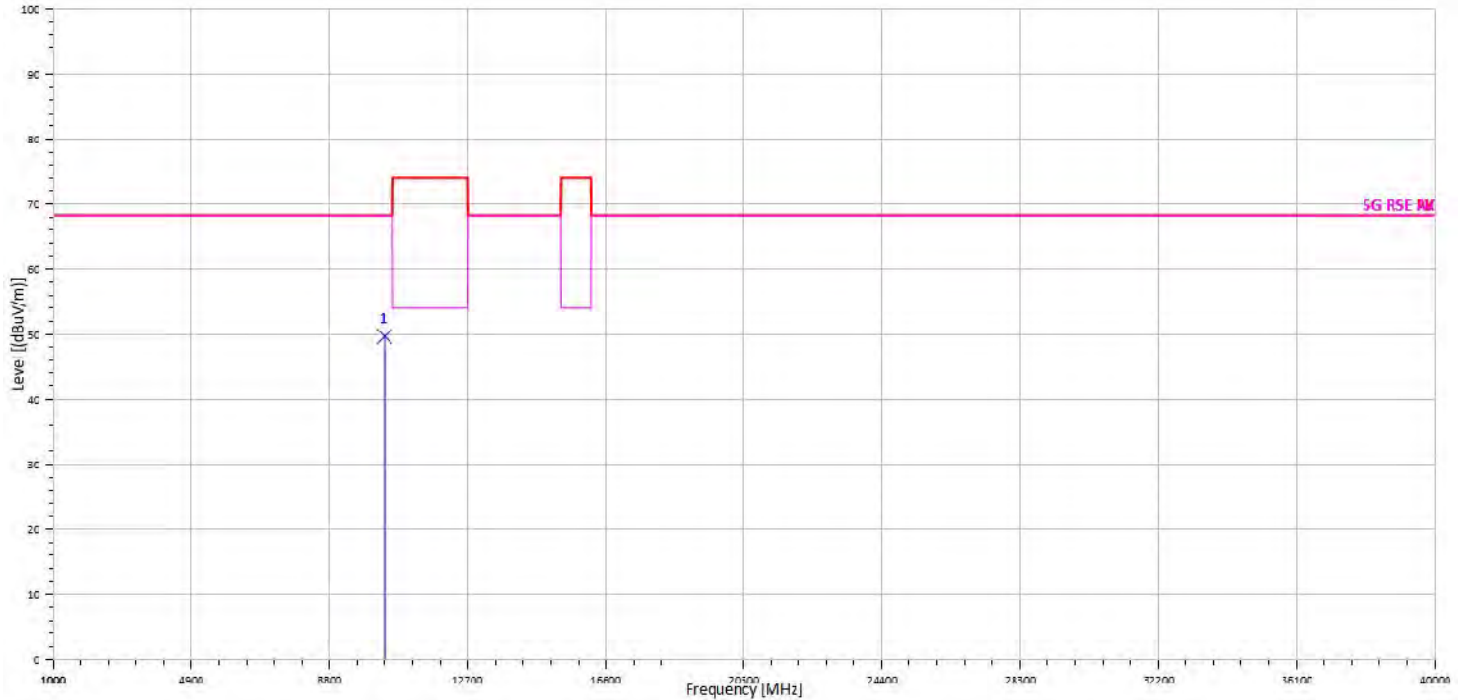
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	H	Peak	40.04	9.27	49.31	68.3	-18.99

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Operation Mode :	802.11n20B1	Test Date :	2017/10/16
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10360.00	H	Peak	40.38	9.27	49.65	68.3	-18.65

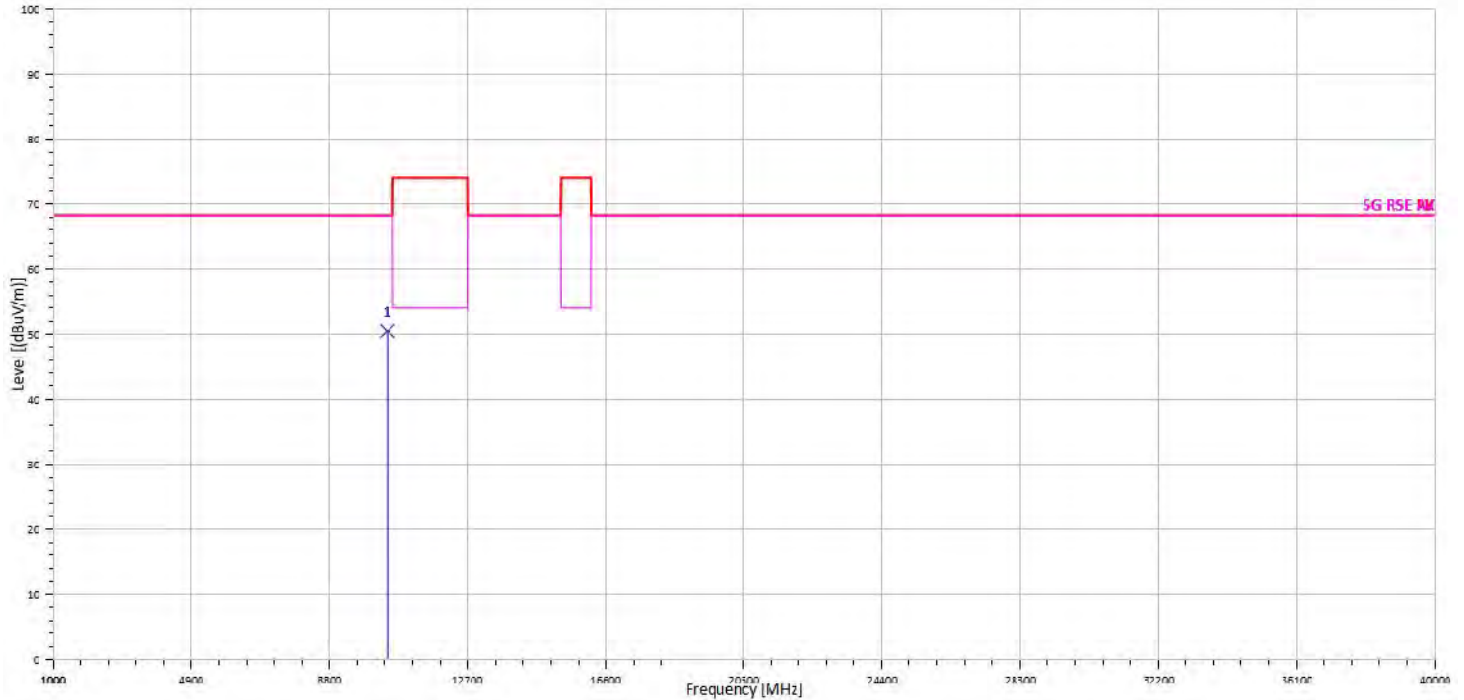
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Operation Mode :	802.11n20B1	Test Date :	2017/10/16
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH MID	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



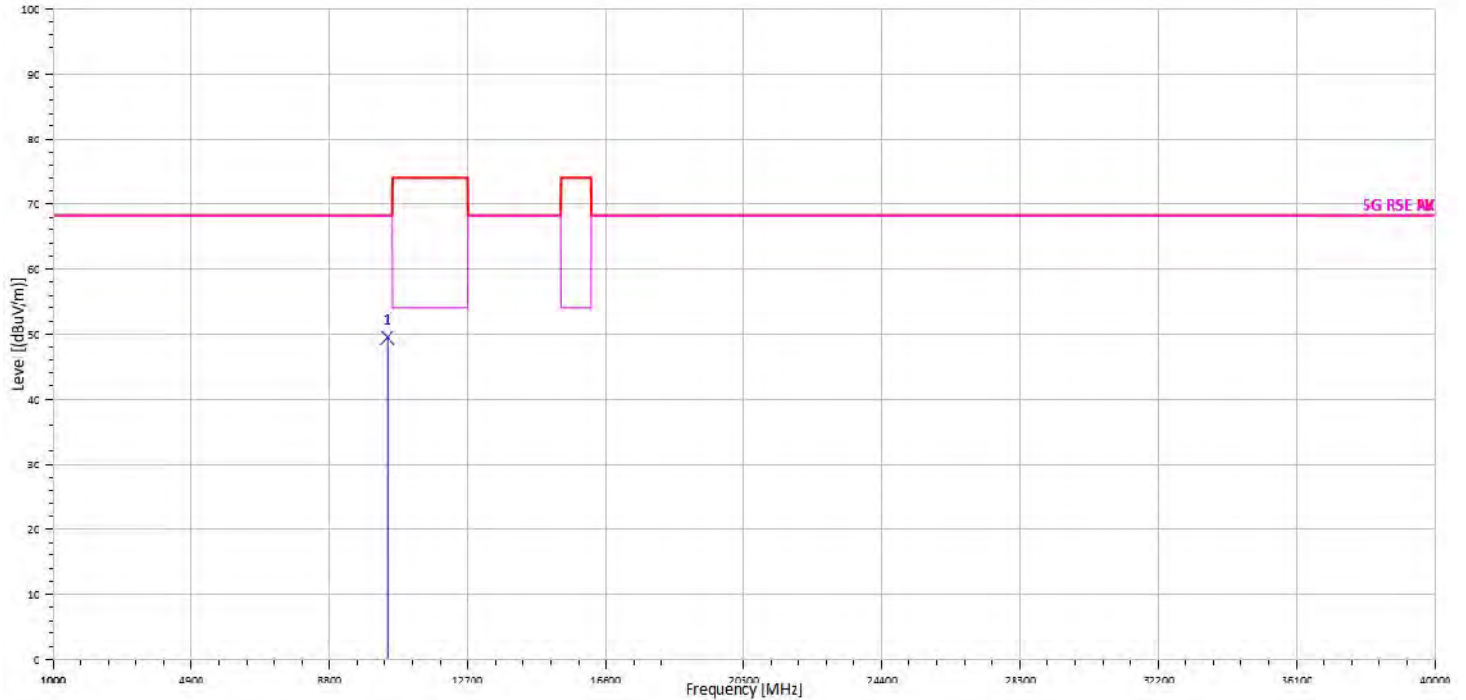
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10440.00	H	Peak	40.92	9.57	50.49	68.3	-17.81

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Operation Mode :	802.11n20B1	Test Date :	2017/10/16
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH MID	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



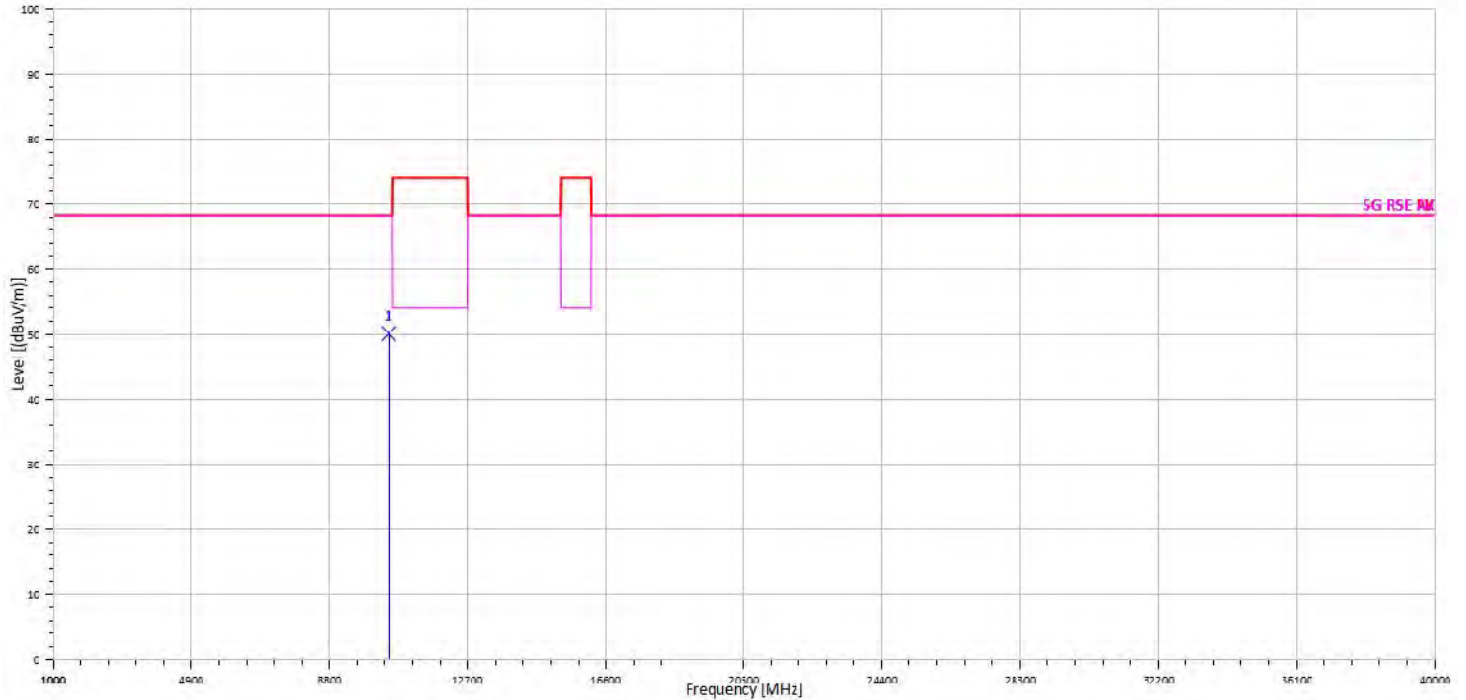
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10440.00	H	Peak	39.89	9.57	49.46	68.3	-18.84

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Operation Mode :	802.11n20B1	Test Date :	2017/10/16
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



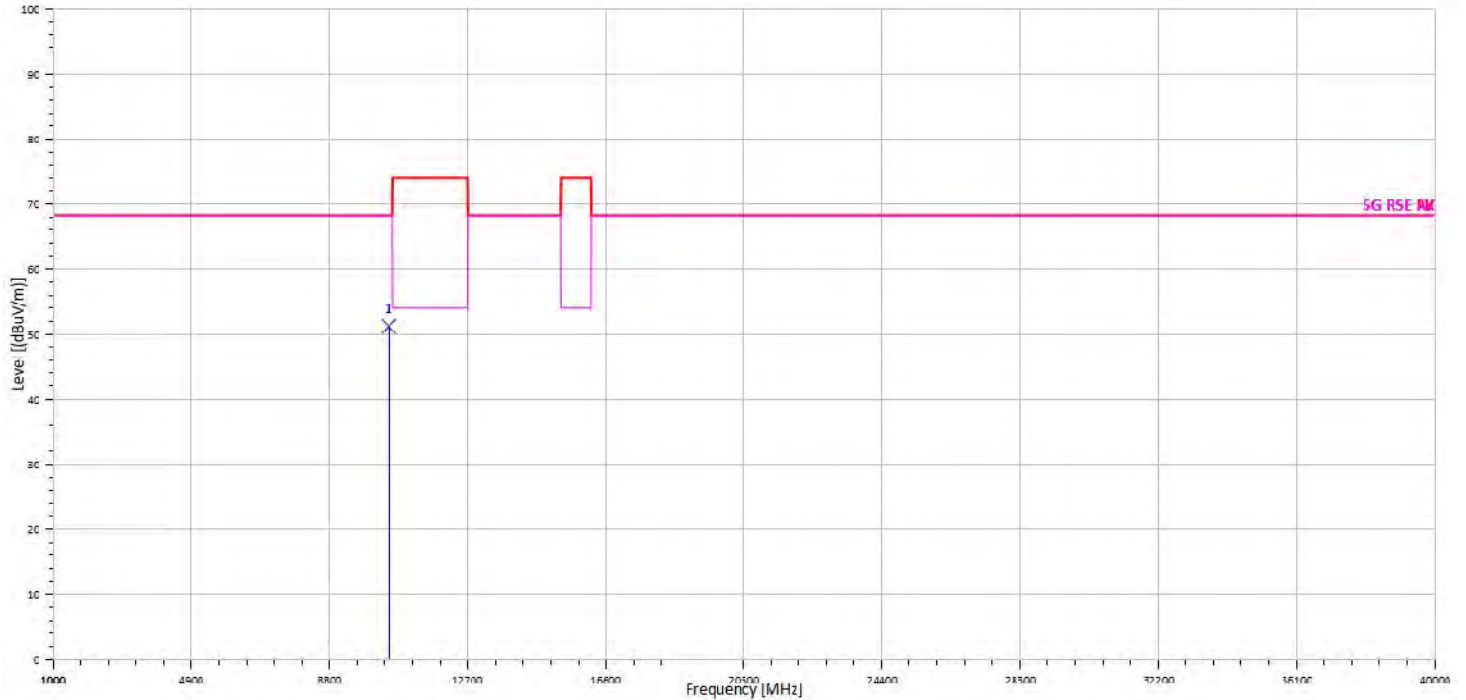
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10480.00	H	Peak	40.44	9.64	50.08	68.3	-18.22

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Operation Mode :	802.11n20B1	Test Date :	2017/10/16
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10480.00	H	Peak	41.57	9.64	51.21	68.3	-17.09

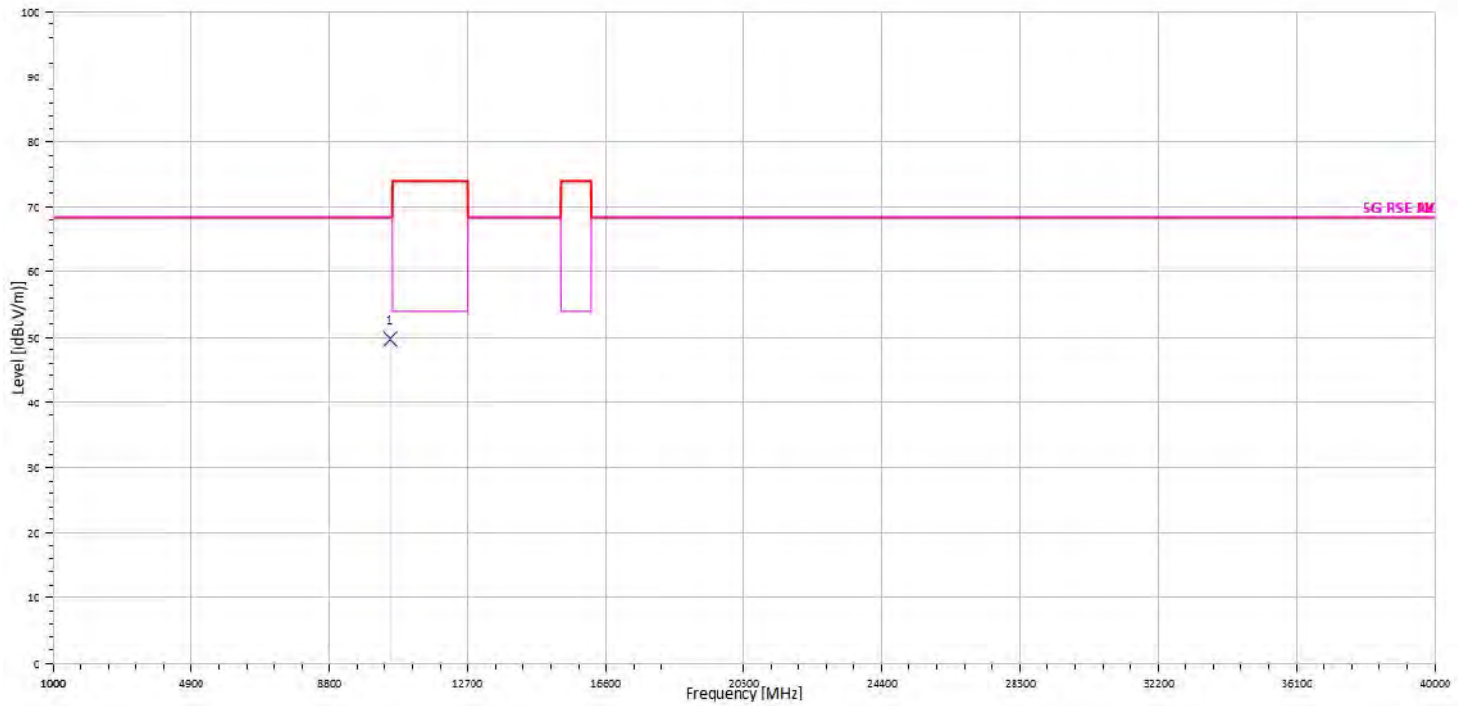
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode :	802.11n20B2	Test Date :	2017/10/16
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



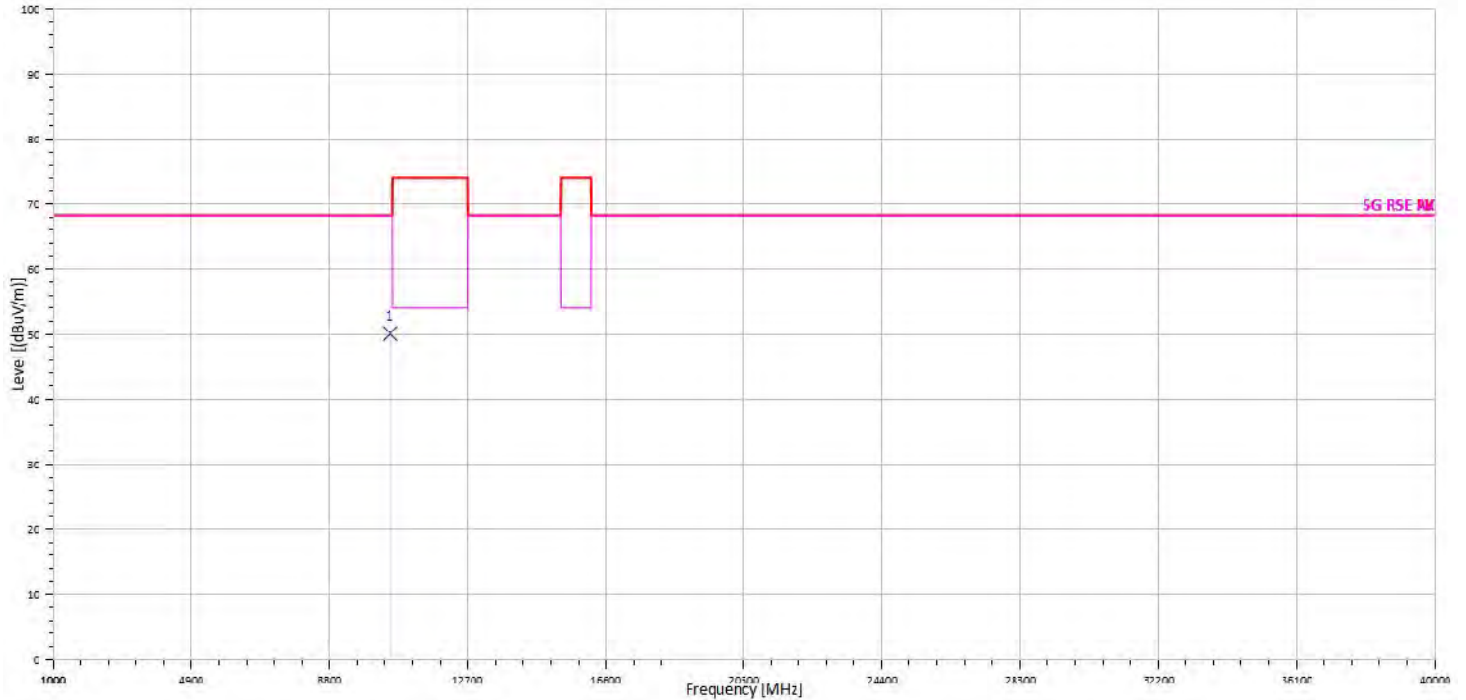
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10520.00	H	Peak	39.98	9.77	49.75	68.3	-18.55

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Operation Mode :	802.11n20B2	Test Date :	2017/10/16
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



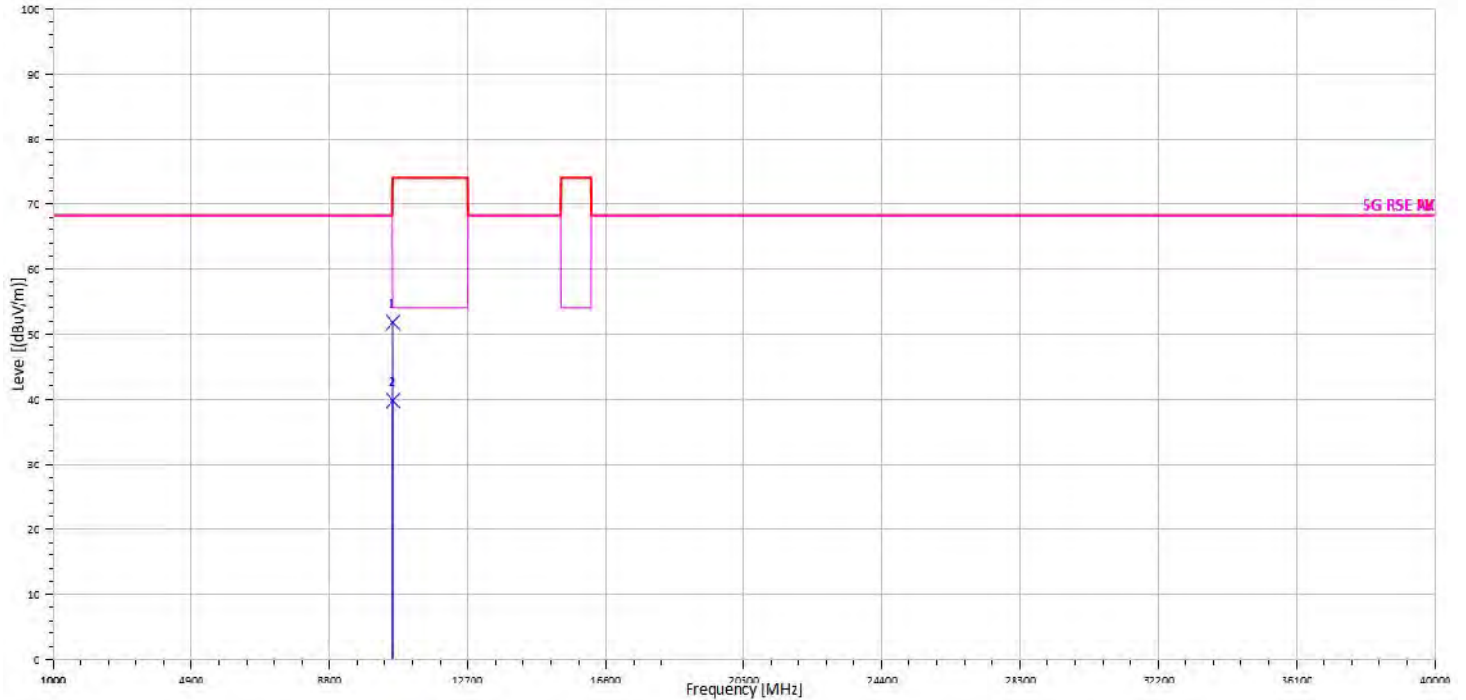
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10520.00	H	Peak	40.31	9.77	50.09	68.3	-18.21

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Operation Mode :	802.11n20B2	Test Date :	2017/10/16
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH MID	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



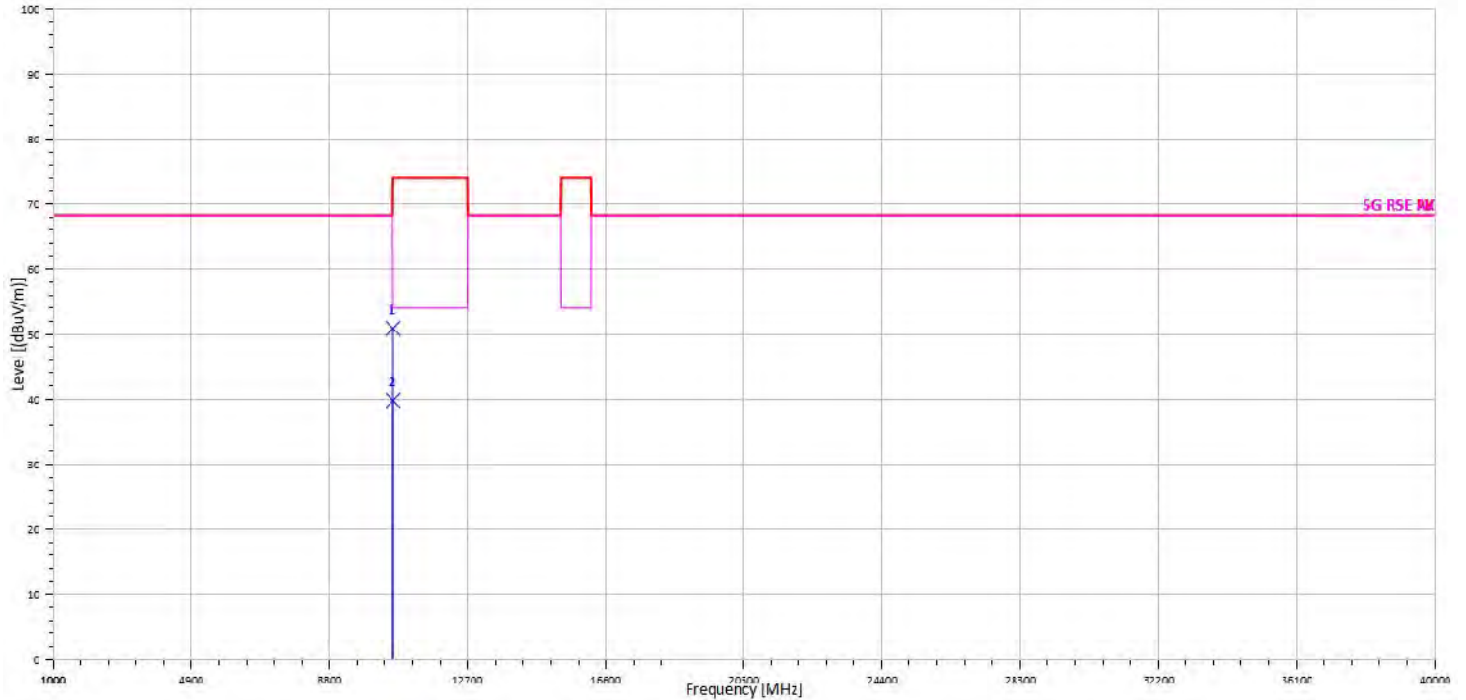
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10600.00	H	Peak	41.68	10.15	51.83	74	-22.17
10600.00	H	Average	29.65	10.15	39.79	54	-14.21

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Operation Mode :	802.11n20B2	Test Date :	2017/10/16
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH MID	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10600.00	H	Peak	40.74	10.15	50.88	74	-23.12
10600.00	H	Average	29.66	10.15	39.81	54	-14.19

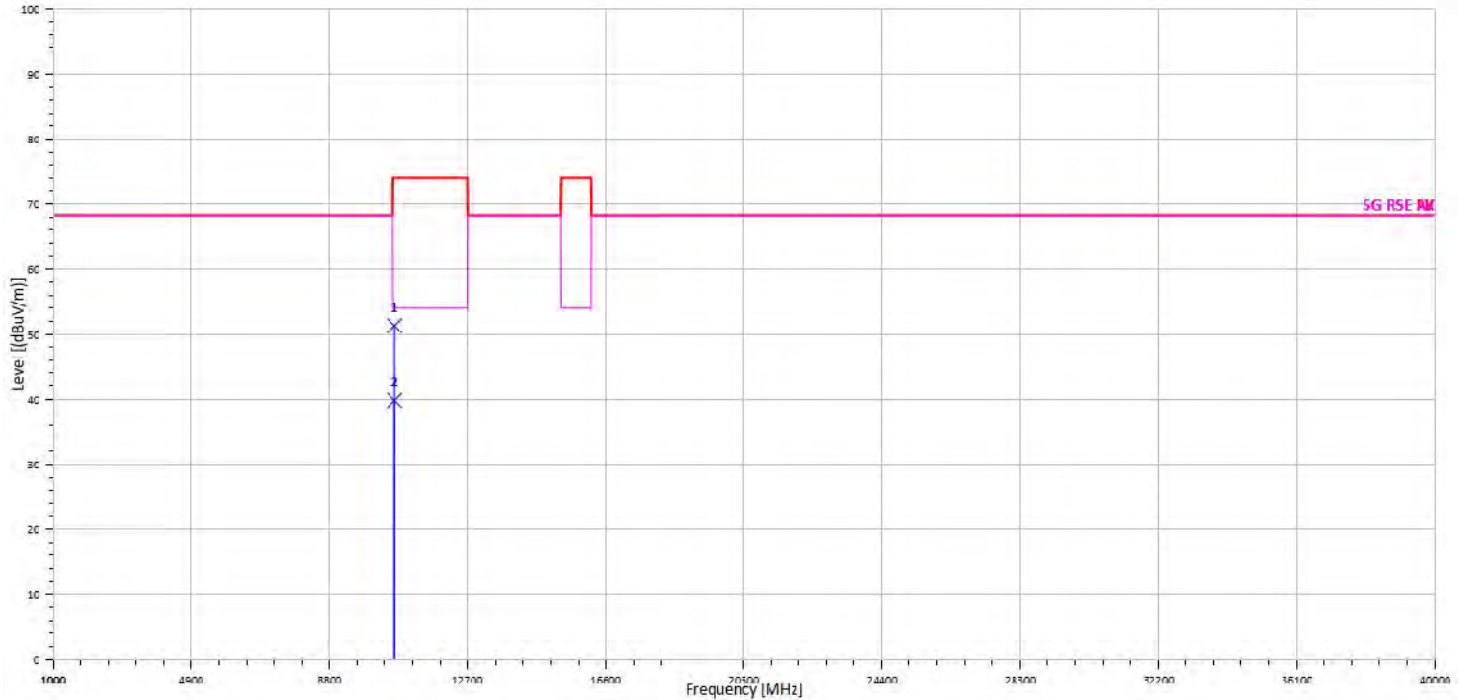
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Operation Mode : 802.11n20B2      Test Date : 2017/10/16  
 Fundamental Frequency : 5320 MHz      Temp. / Humi. : 22.8deg\_C/59RH  
 Operation Band : TX CH HIGH      Test Engineer : Enzo  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



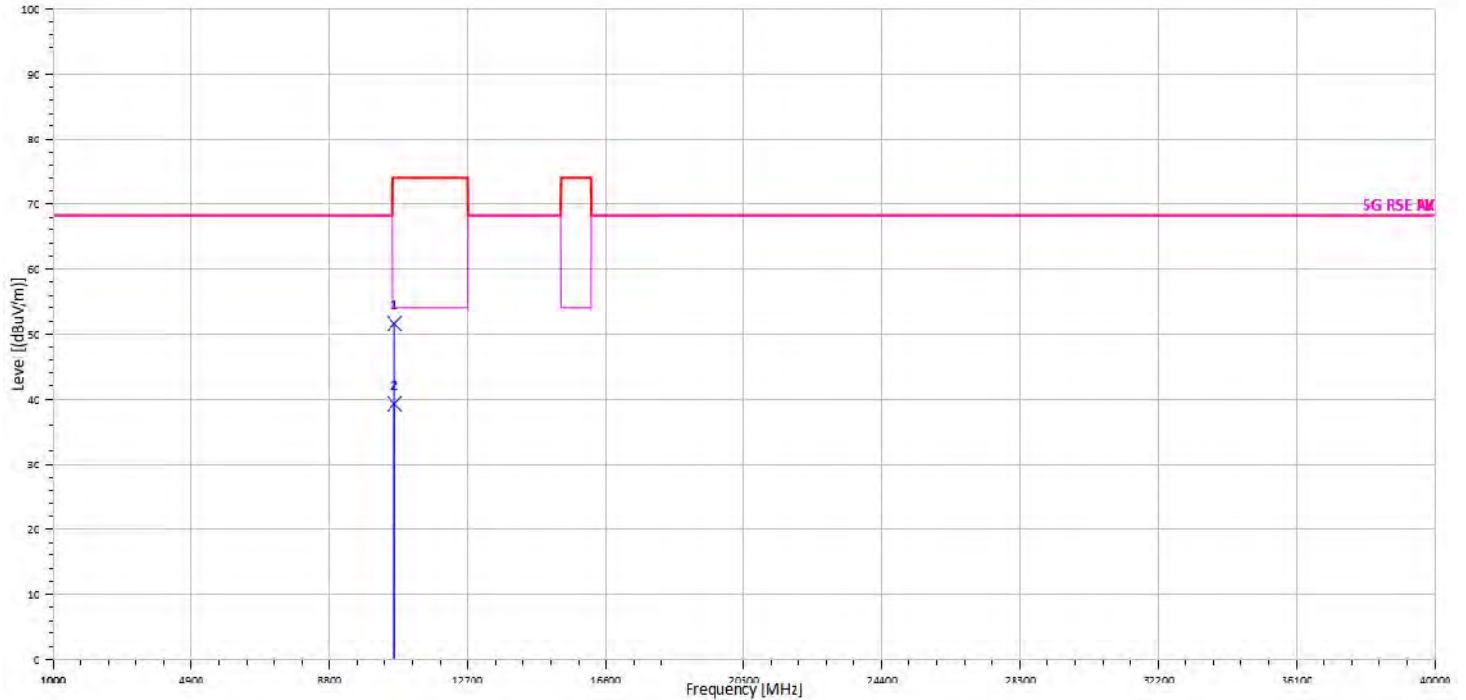
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10640.00	H	Peak	41.22	10.07	51.29	74	-22.71
10640.00	H	Average	29.75	10.07	39.82	54	-14.18

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Operation Mode : 802.11n20B2      Test Date : 2017/10/16  
 Fundamental Frequency : 5320 MHz      Temp. / Humi. : 22.8deg\_C/59RH  
 Operation Band : TX CH HIGH      Test Engineer : Enzo  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10640.00	H	Peak	41.59	10.07	51.67	74	-22.33
10640.00	H	Average	29.26	10.07	39.33	54	-14.67

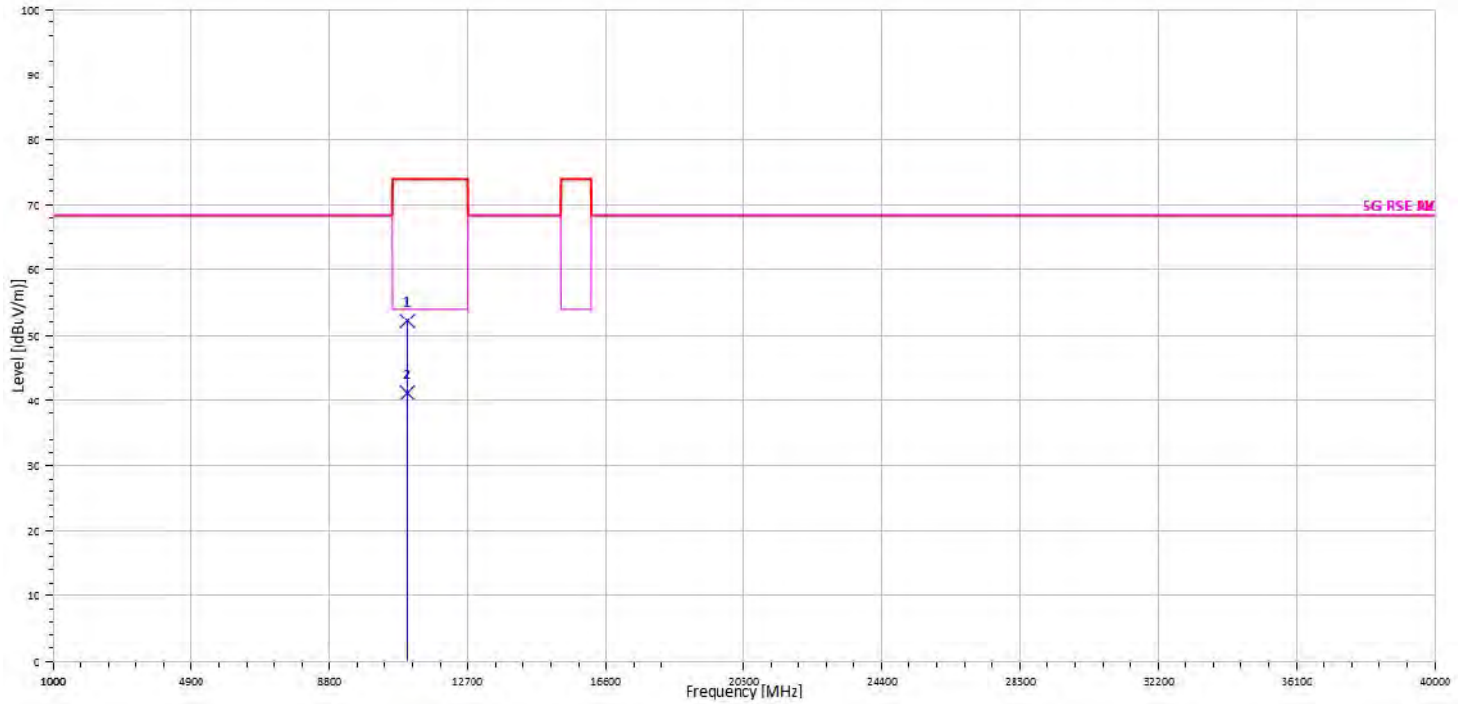
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode :	802.11n20B3	Test Date :	2017/10/16
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



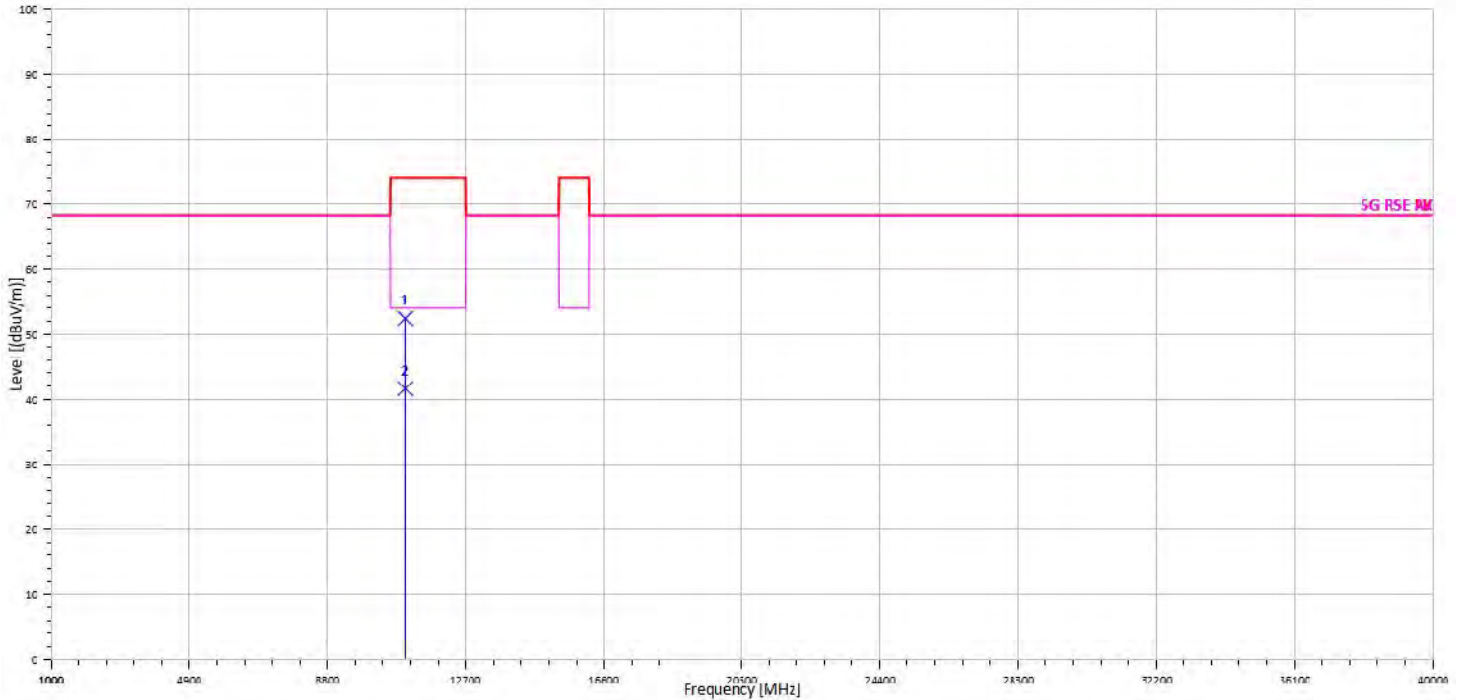
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11000.00	H	Peak	40.47	11.71	52.18	74	-21.82
11000.00	H	Average	29.46	11.71	41.17	54	-12.83

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Operation Mode : 802.11n20B3      Test Date : 2017/10/16  
 Fundamental Frequency : 5500 MHz      Temp. / Humi. : 22.8deg\_C/59RH  
 Operation Band : TX CH LOW      Test Engineer : Enzo  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



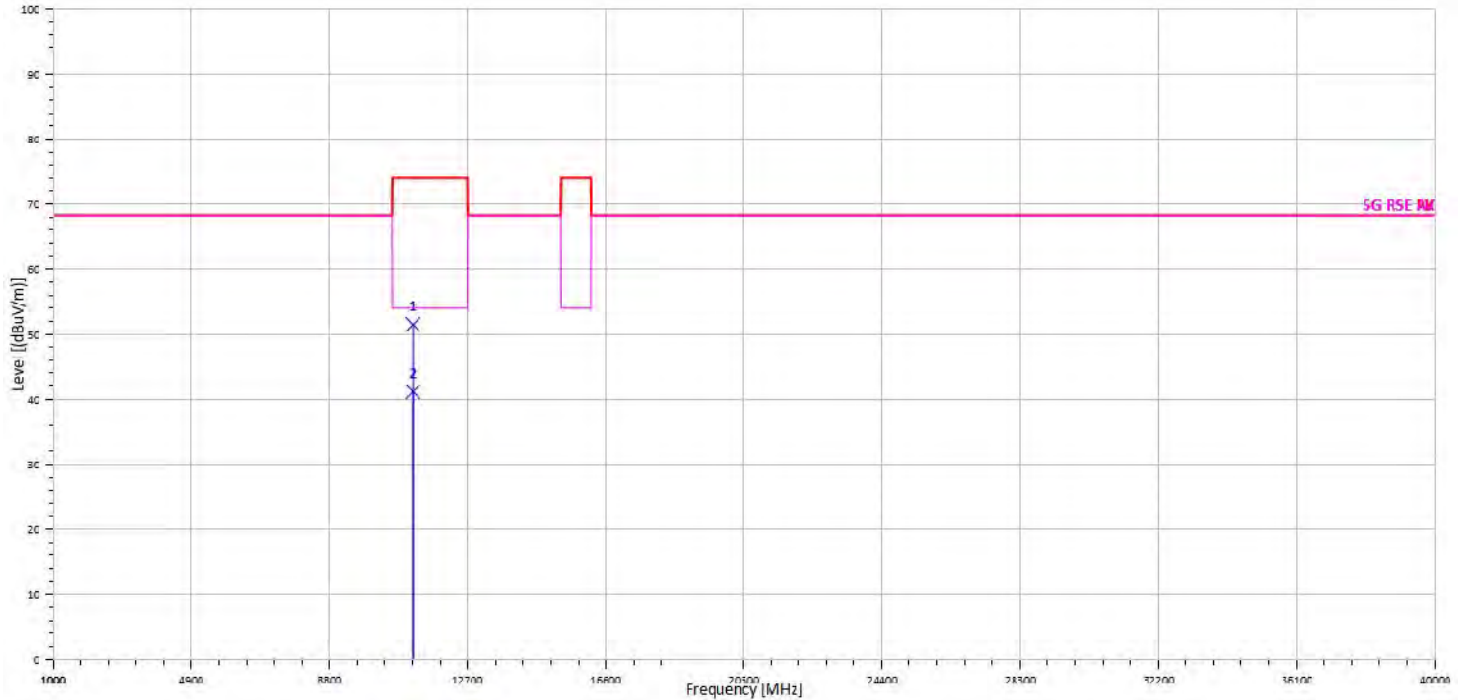
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11000.00	H	Peak	40.71	11.71	52.42	74	-21.58
11000.00	H	Average	29.92	11.71	41.63	54	-12.37

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Operation Mode :	802.11n20B3	Test Date :	2017/10/16
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH MID	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



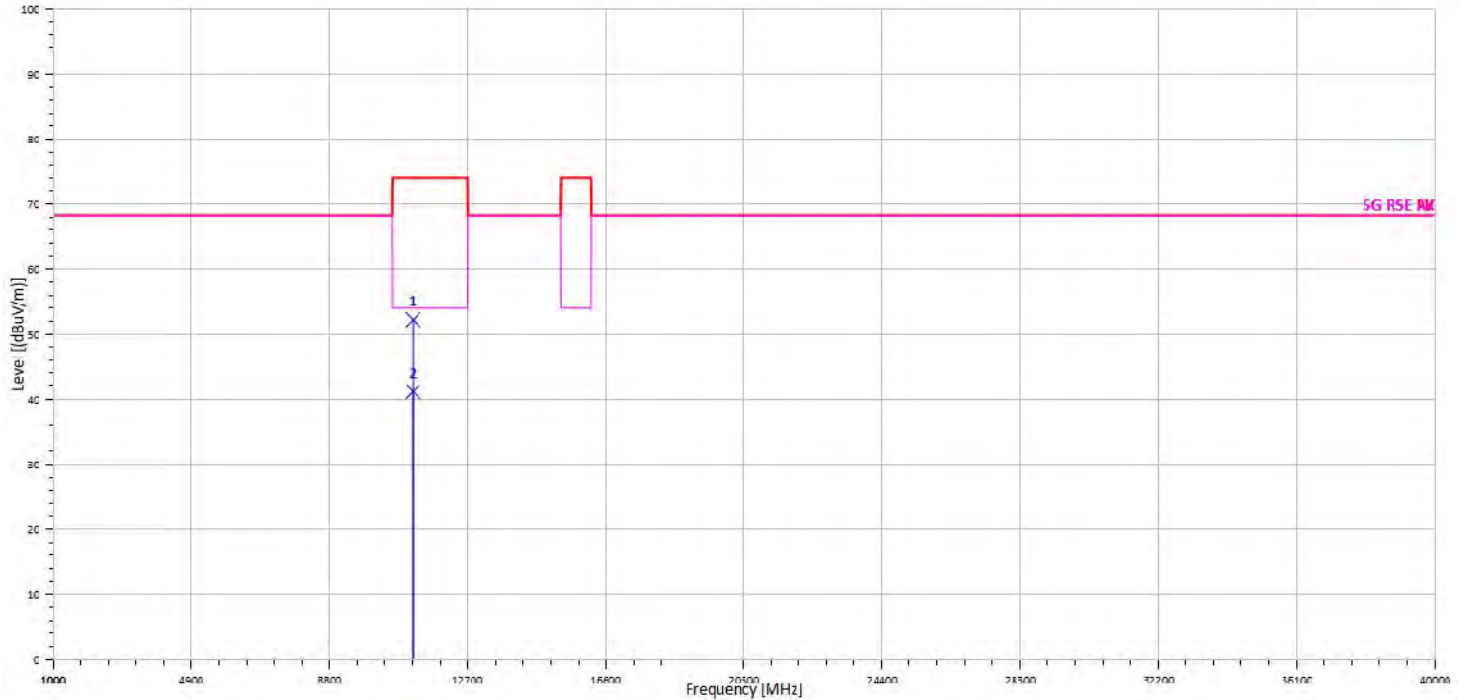
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11160.00	H	Peak	39.97	11.51	51.48	74	-22.52
11160.00	H	Average	29.65	11.51	41.16	54	-12.84

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Operation Mode : 802.11n20B3 Test Date : 2017/10/16  
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.8deg\_C/59RH  
 Operation Band : TX CH MID Test Engineer : Enzo  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



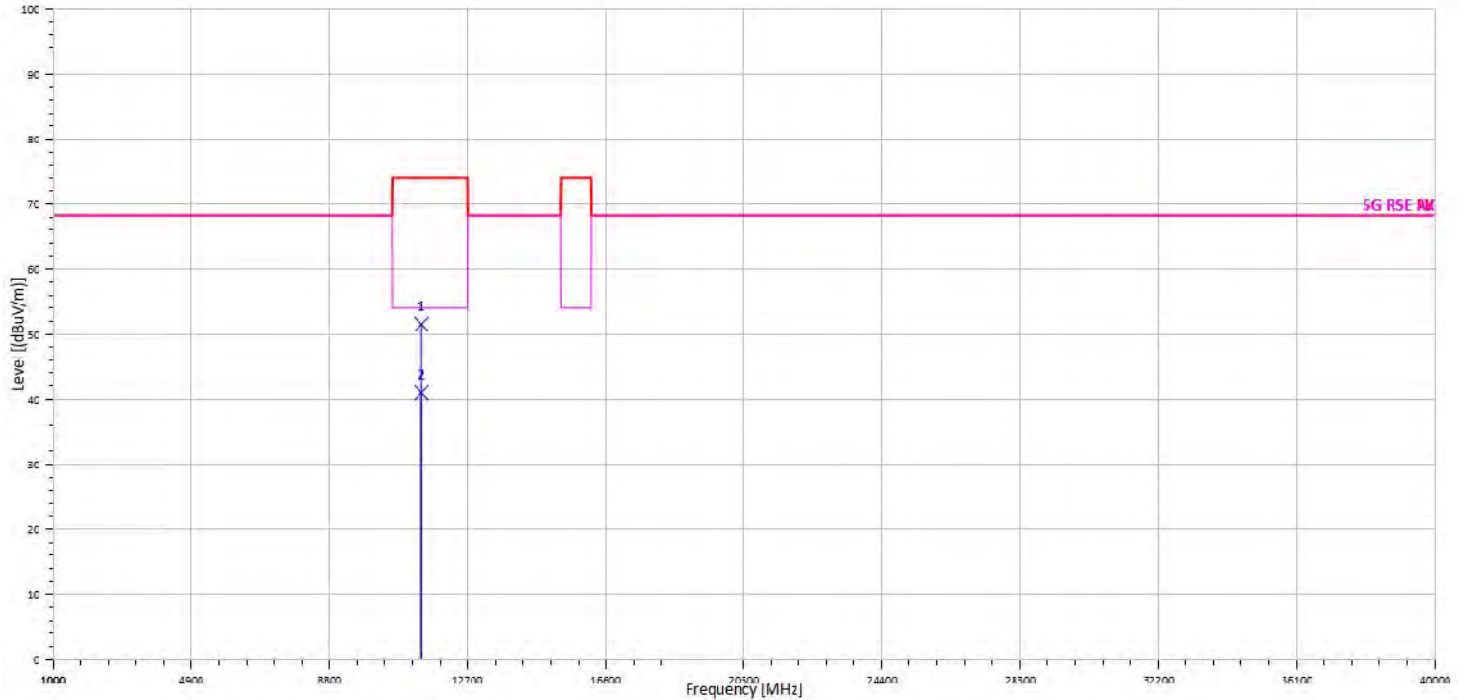
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11160.00	H	Peak	40.69	11.51	52.20	74	-21.80
11160.00	H	Average	29.66	11.51	41.17	54	-12.83

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Operation Mode : 802.11n20B3 Test Date : 2017/10/16  
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.8deg\_C/59RH  
 Operation Band : TX CH HIGH Test Engineer : Enzo  
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



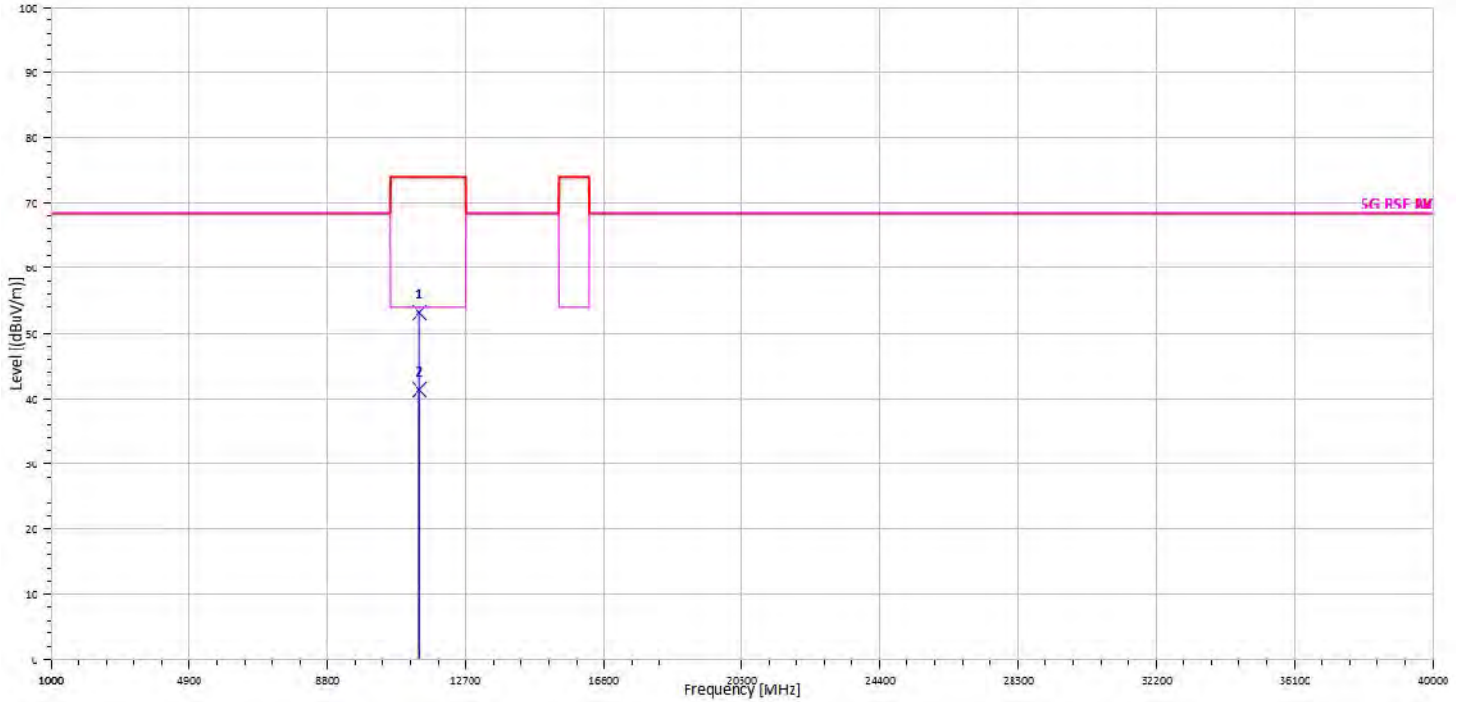
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11400.00	H	Peak	39.93	11.60	51.53	74	-22.47
11400.00	H	Average	29.36	11.60	40.96	54	-13.04

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Operation Mode :	802.11n20B3	Test Date :	2017/10/16
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11400.00	H	Peak	41.60	11.60	53.20	74	-20.80
11400.00	H	Average	29.75	11.60	41.35	54	-12.65

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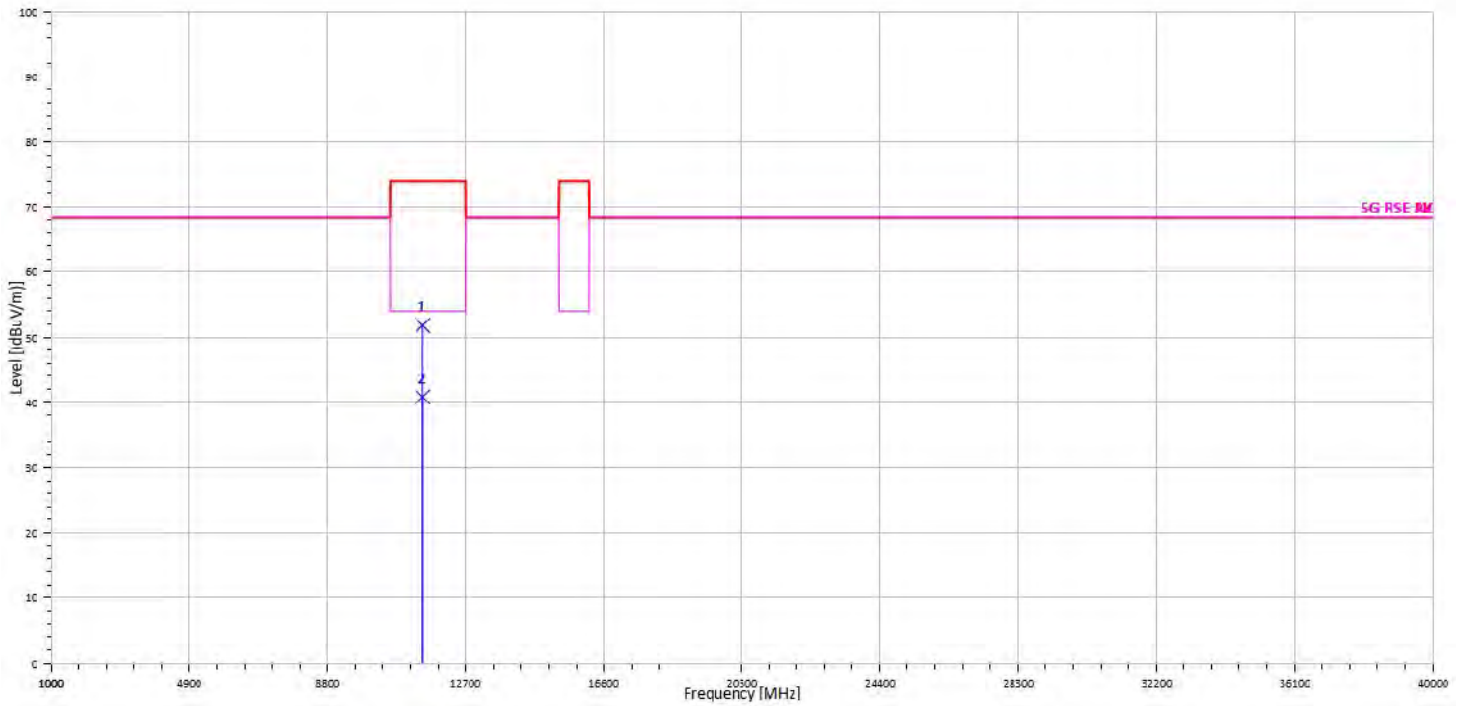
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode :	802.11n20B4	Test Date :	2017/10/16
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



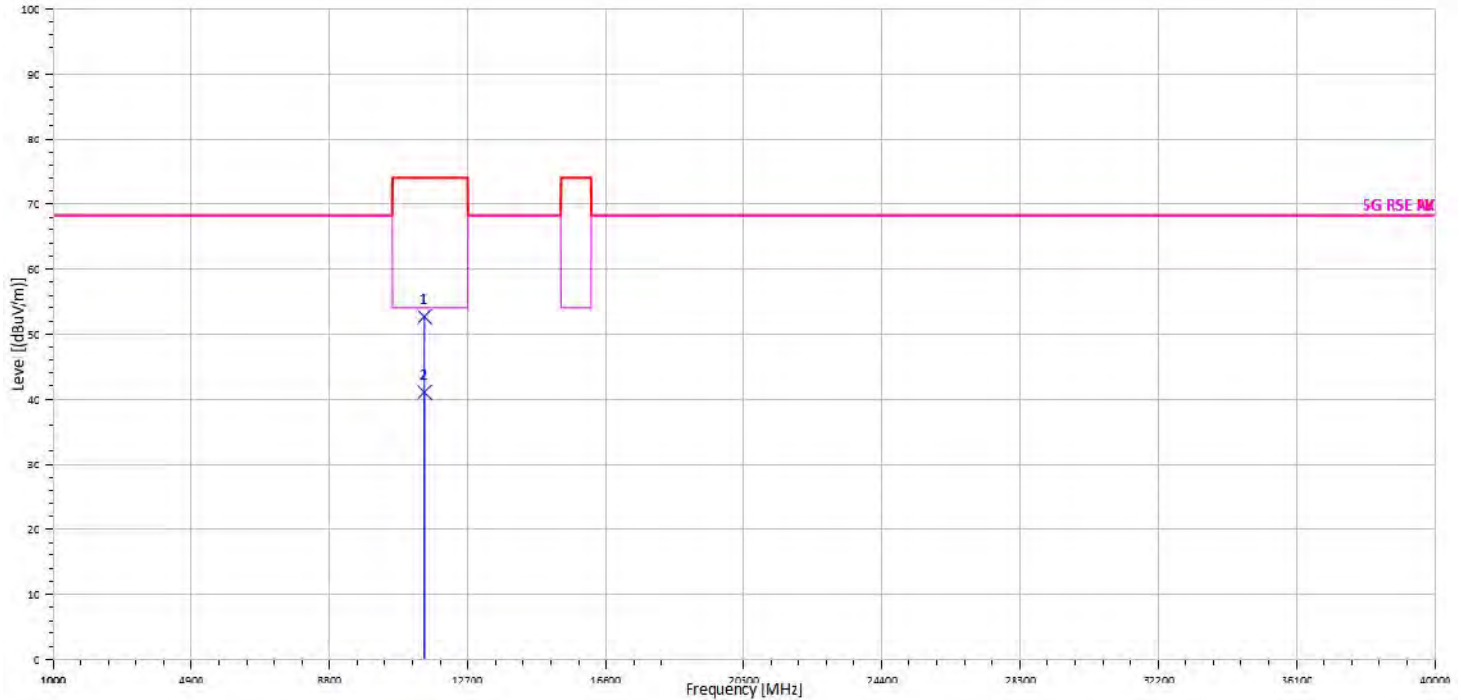
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11490.00	H	Peak	40.62	11.18	51.80	74	-22.20
11490.00	H	Average	29.65	11.18	40.83	54	-13.17

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Operation Mode : 802.11n20B4      Test Date : 2017/10/16  
 Fundamental Frequency : 5745 MHz      Temp. / Humi. : 22.8deg\_C/59RH  
 Operation Band : TX CH LOW      Test Engineer : Enzo  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



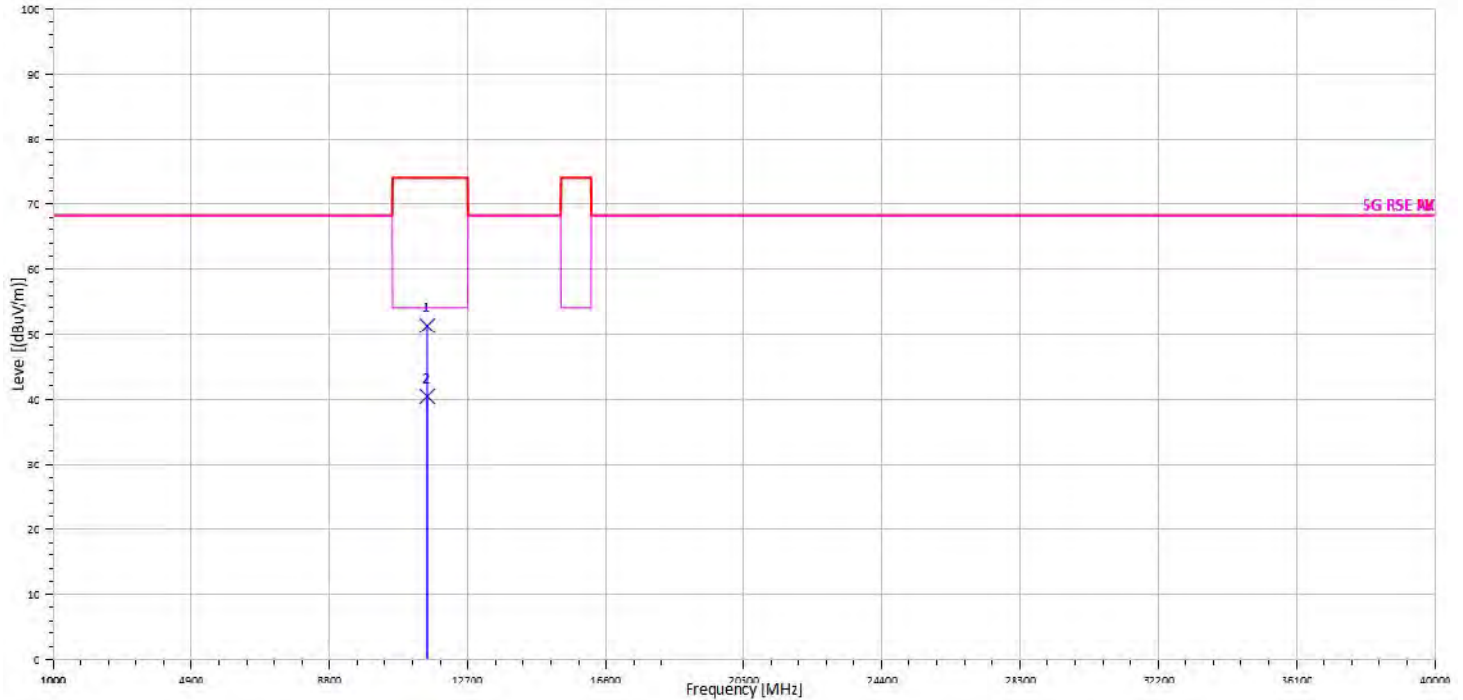
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11490.00	H	Peak	41.51	11.18	52.69	74	-21.31
11490.00	H	Average	29.85	11.18	41.03	54	-12.97

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Operation Mode : 802.11n20B4      Test Date : 2017/10/16  
 Fundamental Frequency : 5785 MHz      Temp. / Humi. : 22.8deg\_C/59RH  
 Operation Band : TX CH MID      Test Engineer : Enzo  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



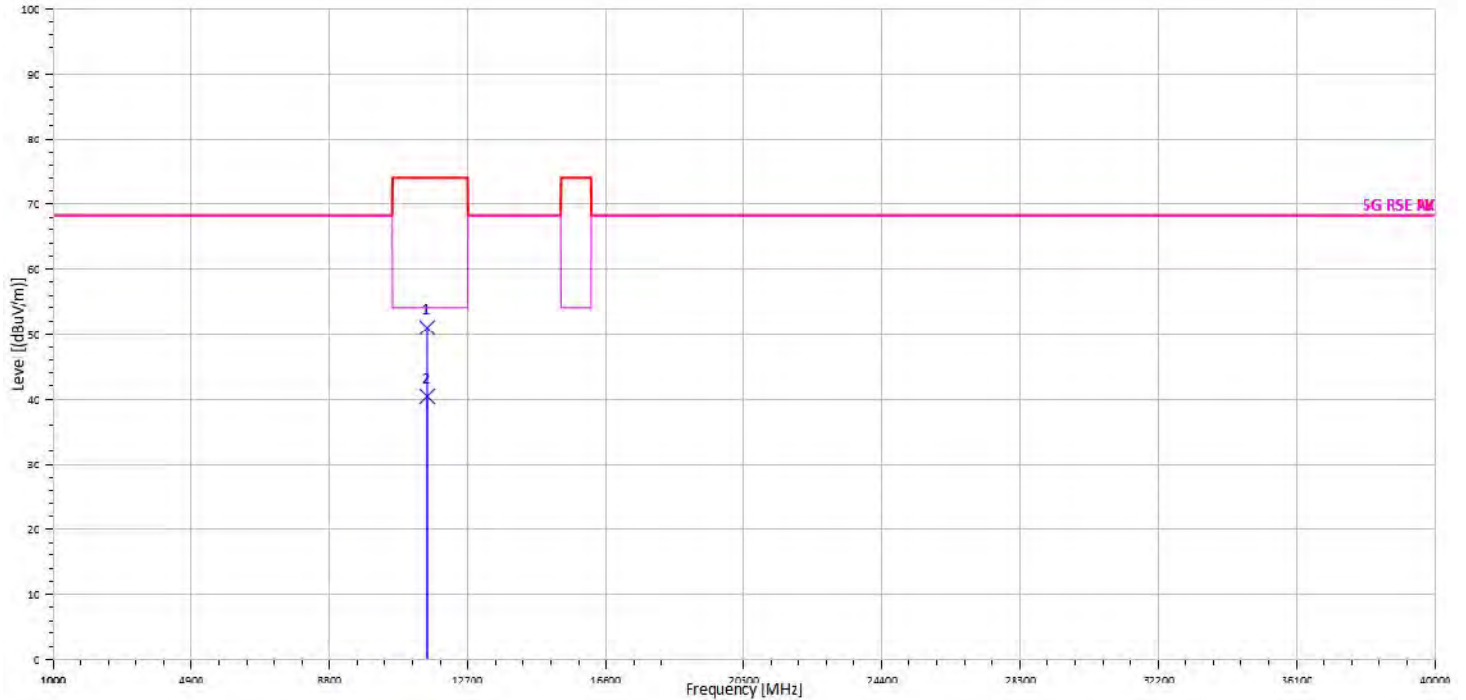
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11570.00	H	Peak	40.23	11.06	51.29	74	-22.71
11570.00	H	Average	29.36	11.06	40.42	54	-13.58

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Operation Mode :	802.11n20B4	Test Date :	2017/10/16
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH MID	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



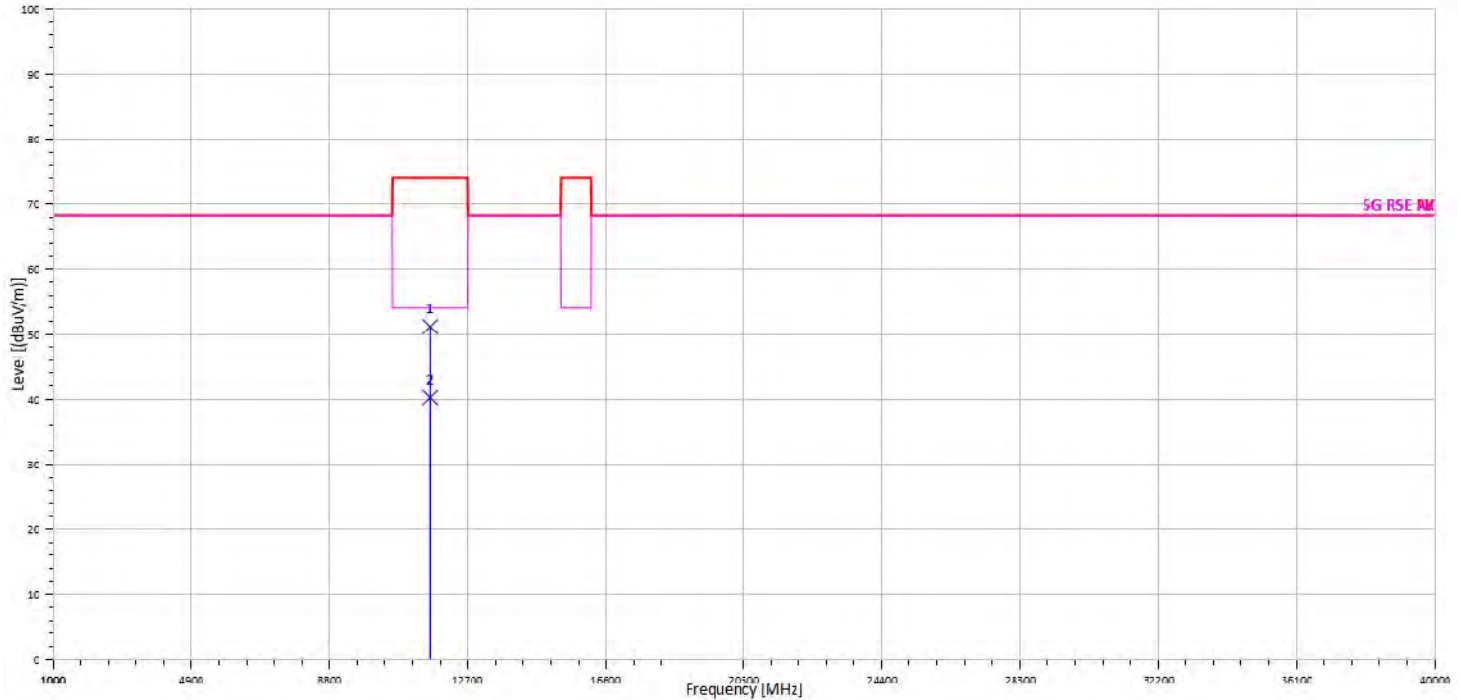
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11570.00	H	Peak	39.94	11.06	51.01	74	-22.99
11570.00	H	Average	29.35	11.06	40.42	54	-13.58

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Operation Mode : 802.11n20B4      Test Date : 2017/10/16  
 Fundamental Frequency : 5825 MHz      Temp. / Humi. : 22.8deg\_C/59RH  
 Operation Band : TX CH HIGH      Test Engineer : Enzo  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



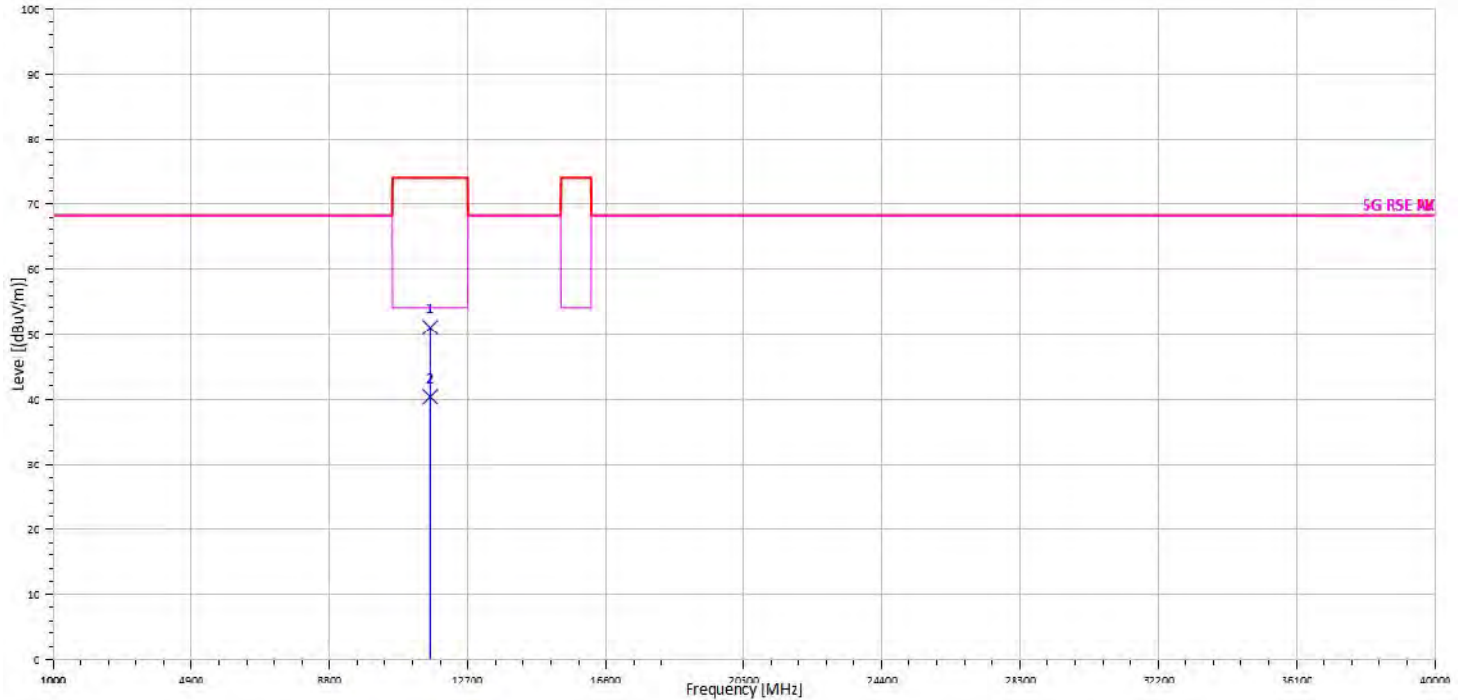
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11650.00	H	Peak	40.47	10.69	51.16	74	-22.84
11650.00	H	Average	29.57	10.69	40.26	54	-13.74

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Operation Mode :	802.11n20B4	Test Date :	2017/10/16
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11650.00	H	Peak	40.35	10.69	51.04	74	-22.96
11650.00	H	Average	29.68	10.69	40.36	54	-13.64

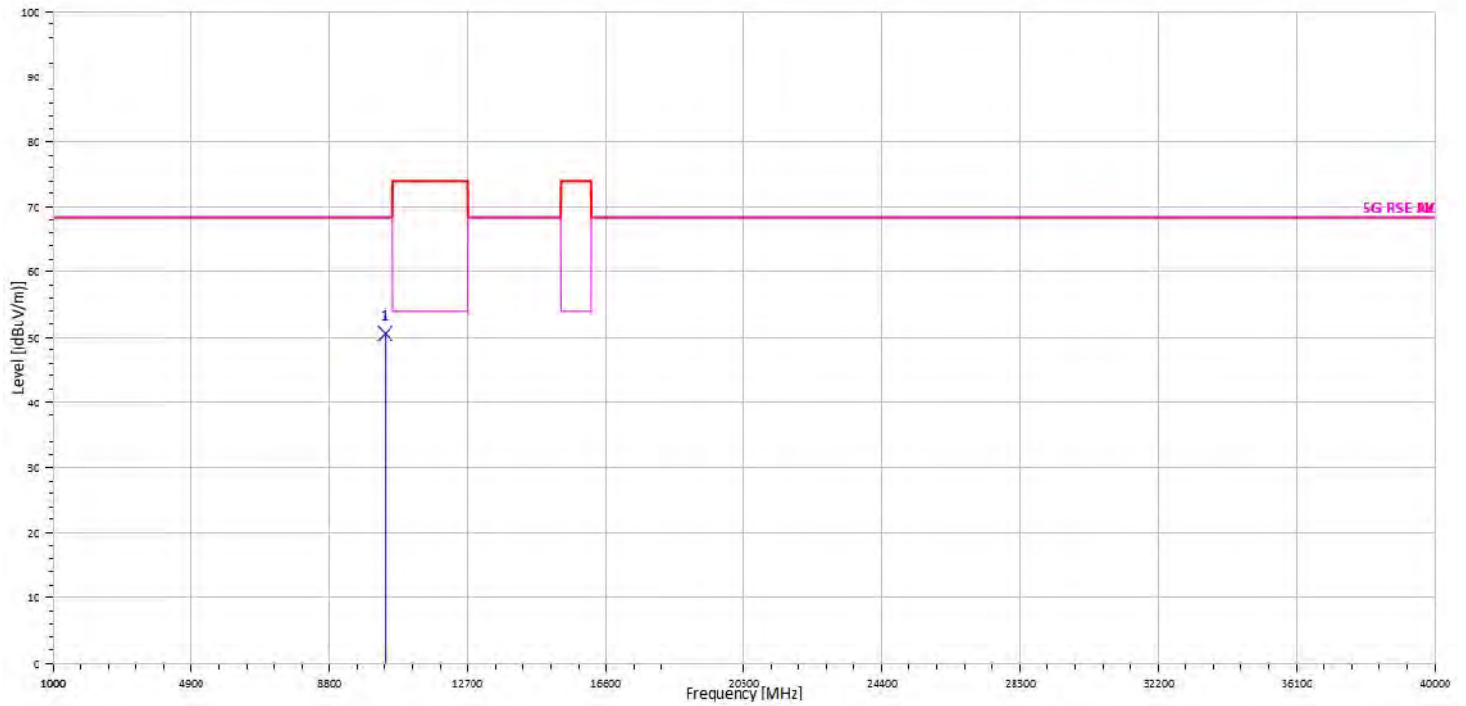
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### Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode :	802.11n40B1	Test Date :	2017/10/16
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



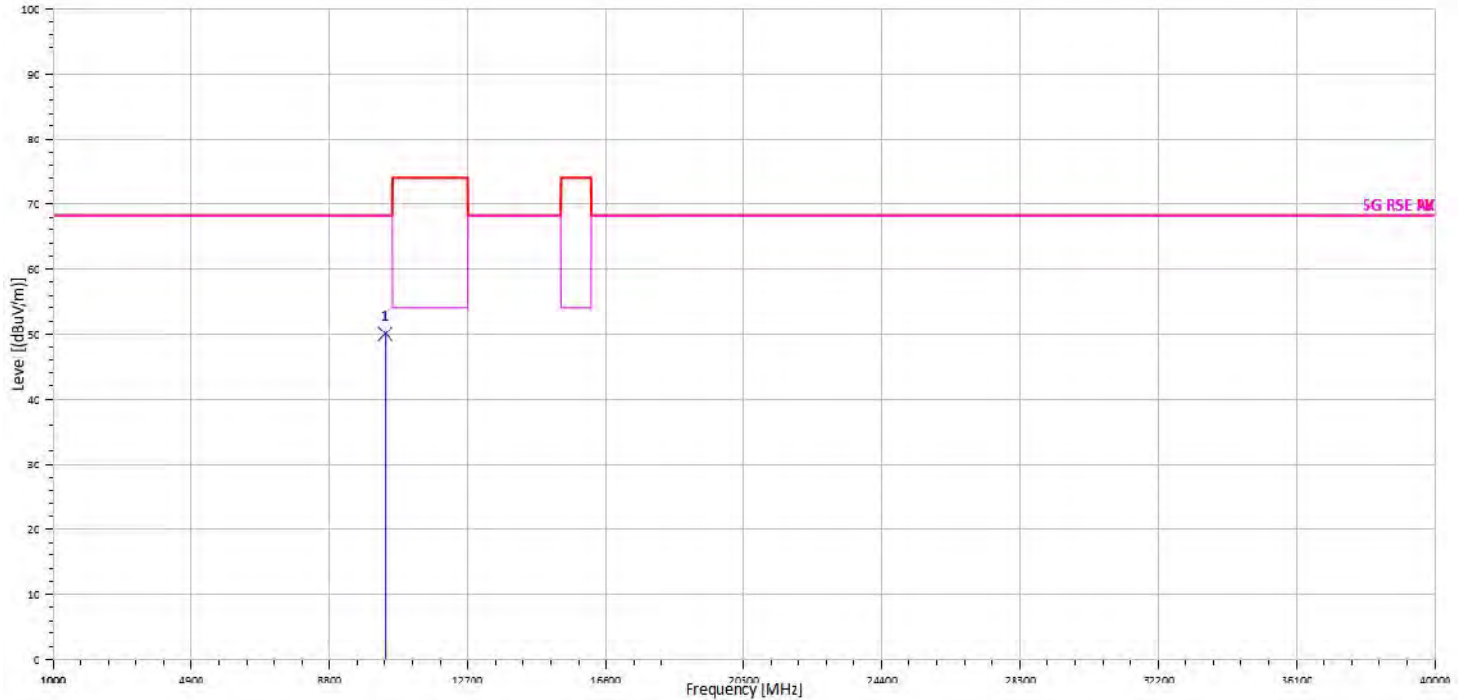
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10380.00	H	Peak	41.17	9.38	50.55	68.3	-17.75

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Operation Mode :	802.11n40B1	Test Date :	2017/10/16
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10380.00	H	Peak	40.68	9.38	50.07	68.3	-18.23

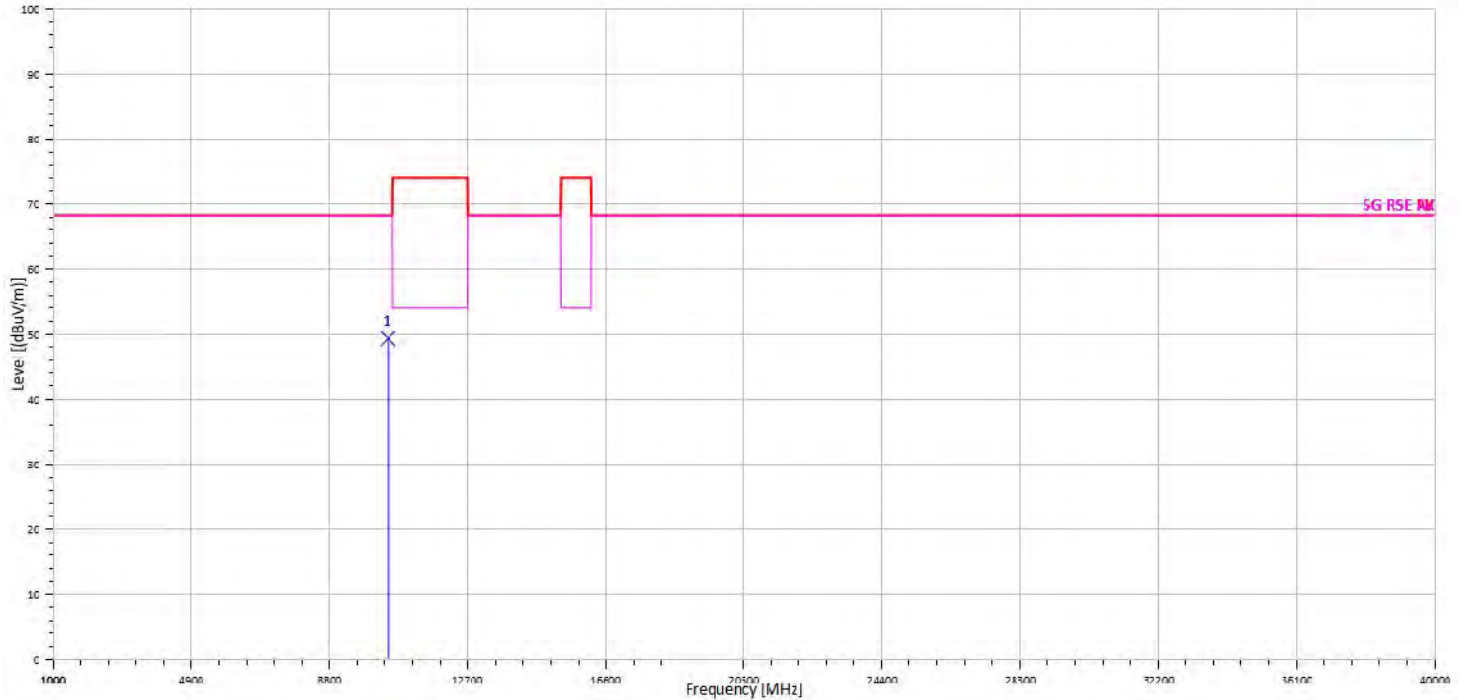
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Operation Mode :	802.11n40B1	Test Date :	2017/10/16
Fundamental Frequency :	5230 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



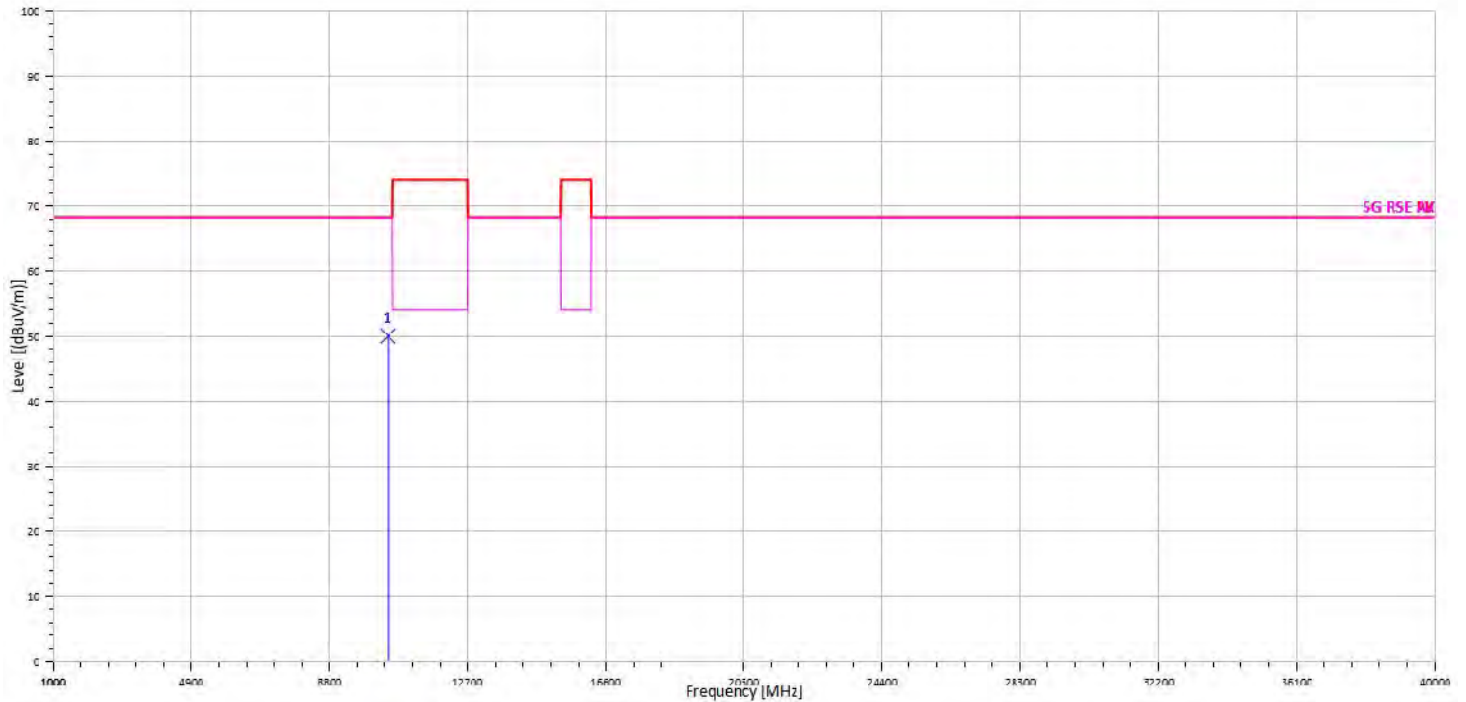
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10460.00	H	Peak	39.71	9.61	49.32	68.3	-18.98

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Operation Mode :	802.11n40B1	Test Date :	2017/10/16
Fundamental Frequency :	5230 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10460.00	H	Peak	40.41	9.61	50.02	68.3	-18.28

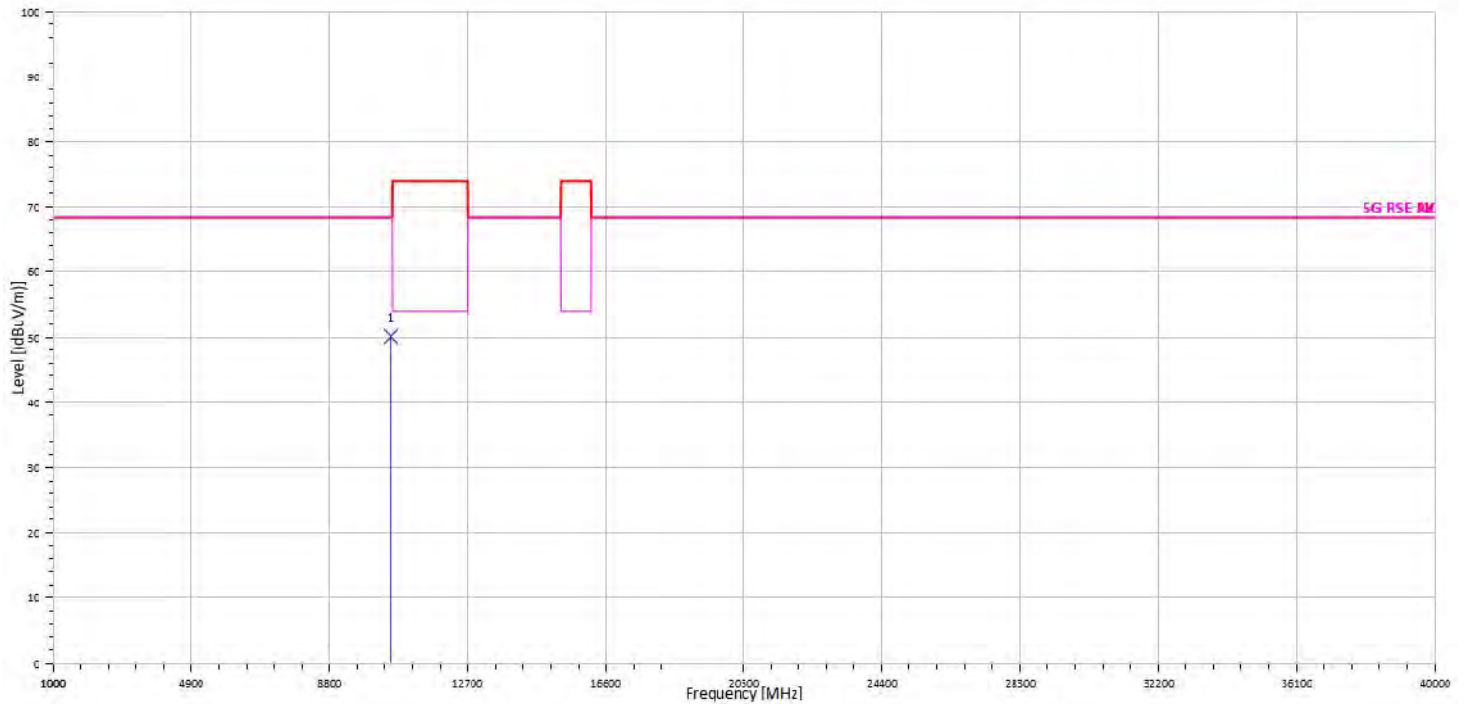
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### Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Mode :	802.11n40B2	Test Date :	2017/10/16
Fundamental Frequency :	5270 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



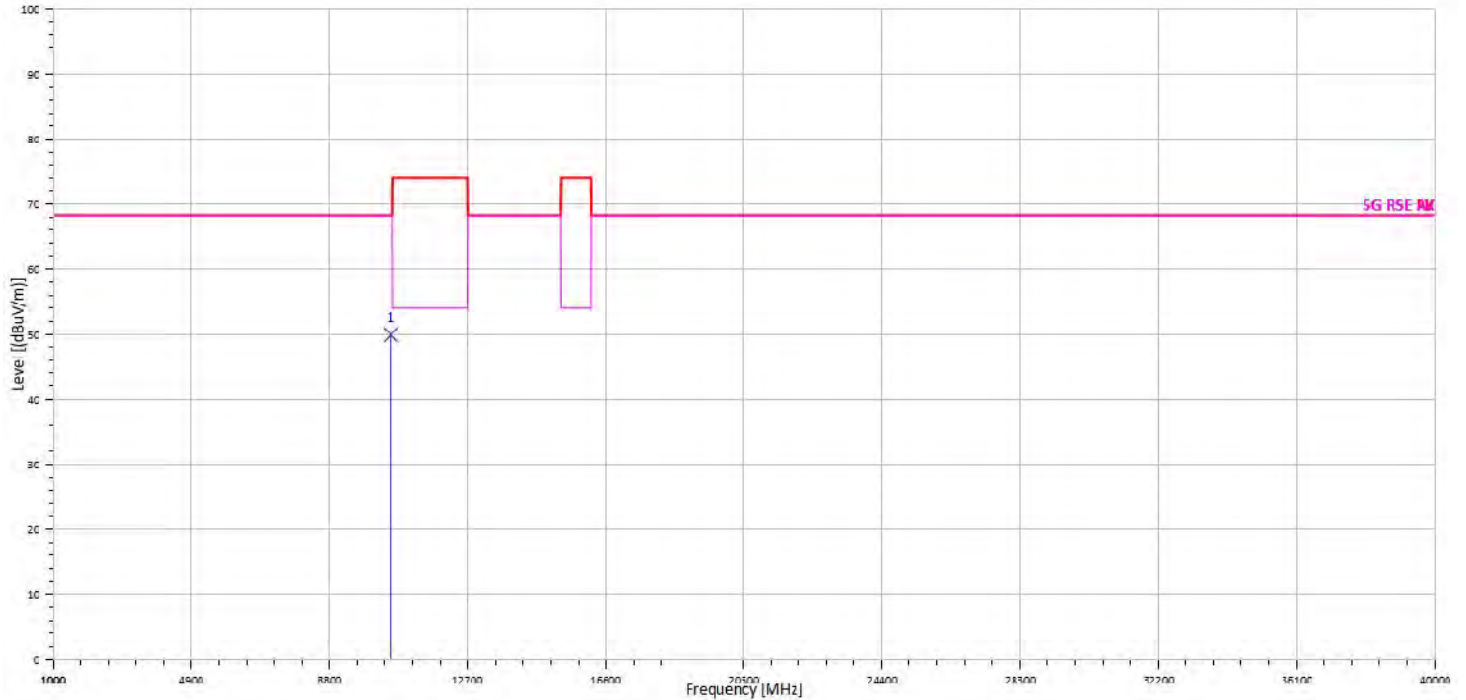
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10540.00	H	Peak	40.25	9.87	50.12	68.3	-18.18

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Operation Mode : 802.11n40B2 Test Date : 2017/10/16  
 Fundamental Frequency : 5270 MHz Temp. / Humi. : 22.8deg\_C/59RH  
 Operation Band : TX CH LOW Test Engineer : Enzo  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



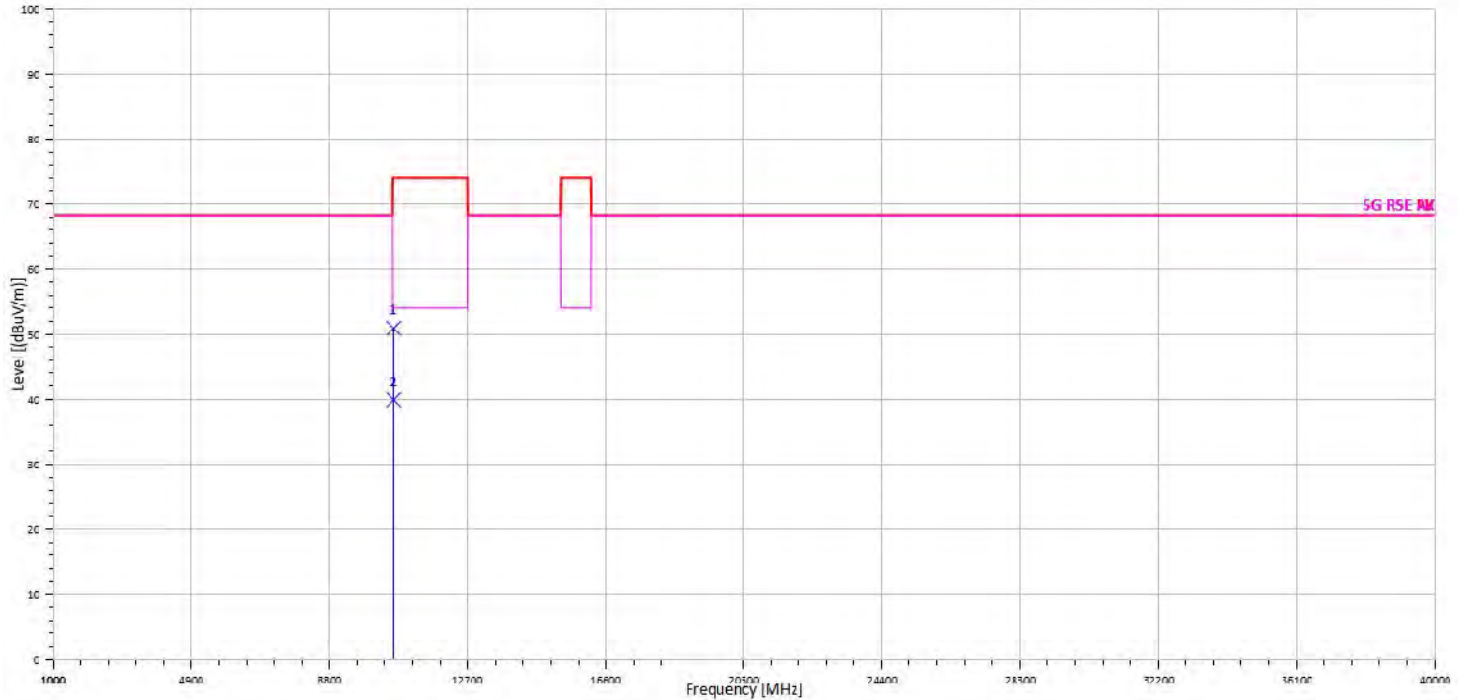
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10540.00	H	Peak	40.04	9.87	49.90	68.3	-18.40

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Operation Mode : 802.11n40B2      Test Date : 2017/10/16  
 Fundamental Frequency : 5310 MHz      Temp. / Humi. : 22.8deg\_C/59RH  
 Operation Band : TX CH HIGH      Test Engineer : Enzo  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



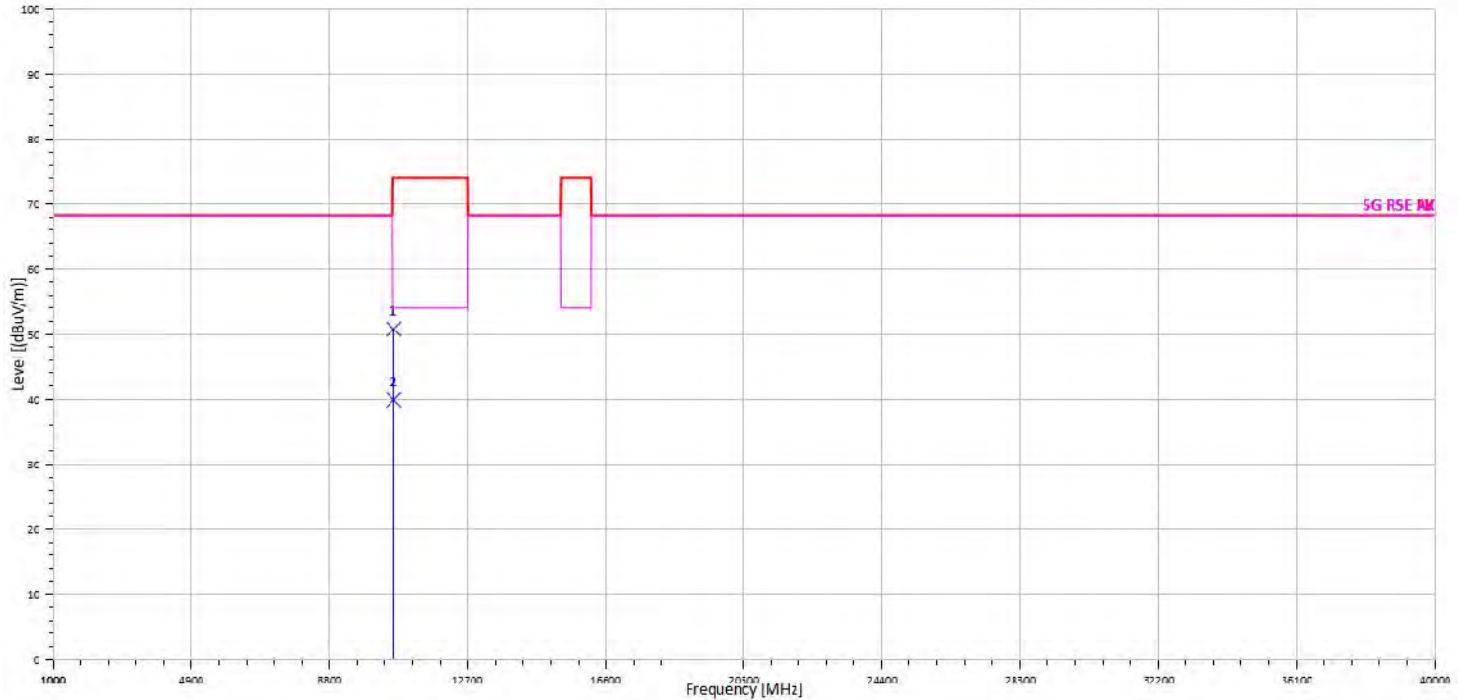
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10620.00	H	Peak	40.80	10.11	50.91	74	-23.09
10620.00	H	Average	29.80	10.11	39.91	54	-14.09

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Operation Mode :	802.11n40B2	Test Date :	2017/10/16
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10620.00	H	Peak	40.68	10.11	50.79	74	-23.21
10620.00	H	Average	29.79	10.11	39.90	54	-14.10

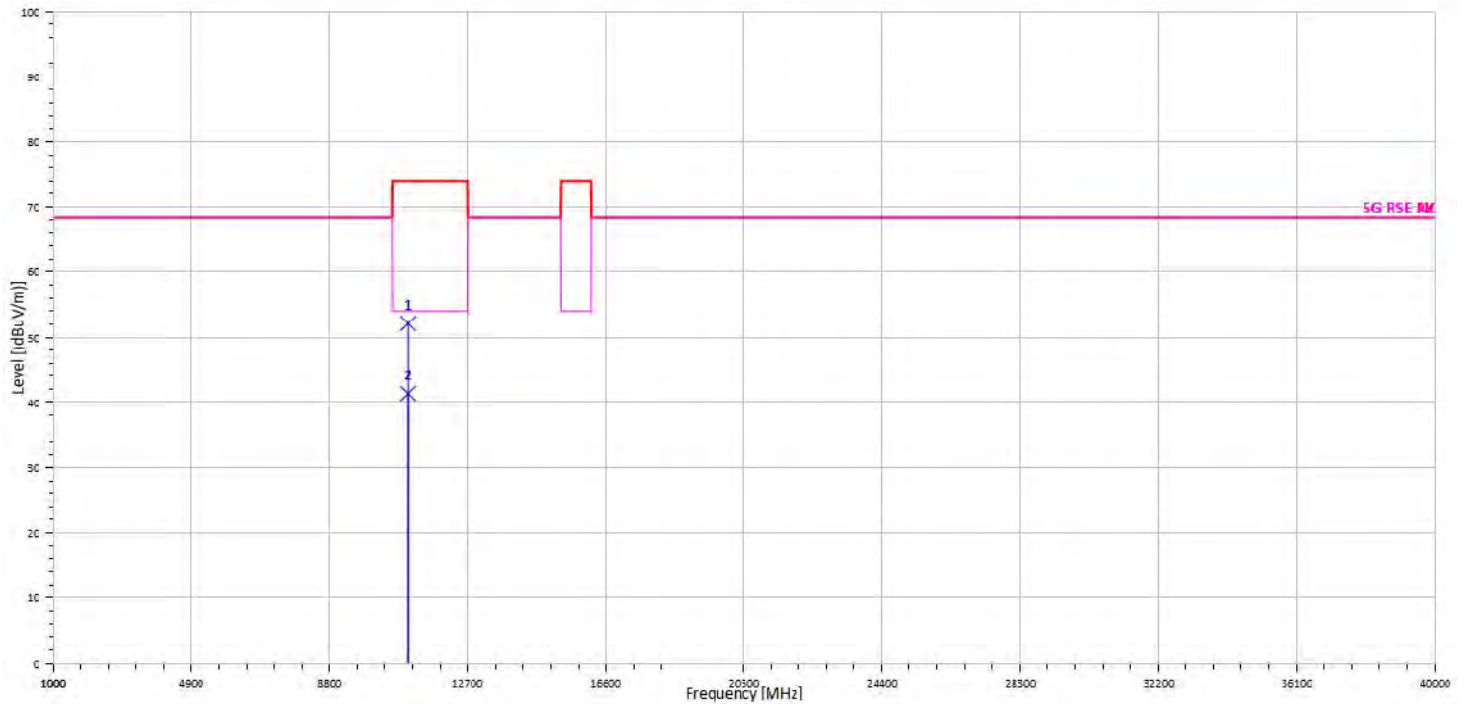
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### Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Mode :	802.11n40B3	Test Date :	2017/10/16
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



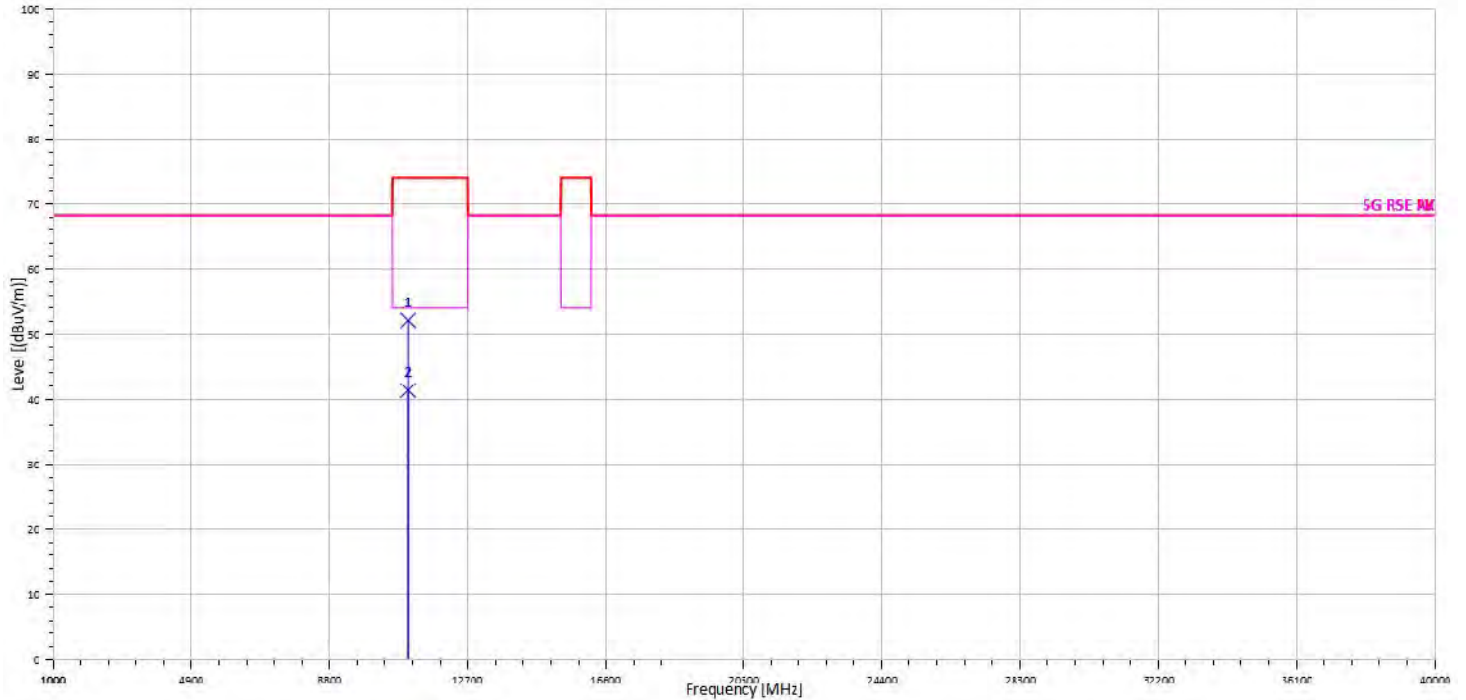
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11020.00	H	Peak	40.51	11.60	52.11	74	-21.89
11020.00	H	Average	29.75	11.60	41.35	54	-12.65

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Operation Mode : 802.11n40B3 Test Date : 2017/10/16  
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.8deg\_C/59RH  
 Operation Band : TX CH LOW Test Engineer : Enzo  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11020.00	H	Peak	40.55	11.60	52.15	74	-21.85
11020.00	H	Average	29.77	11.60	41.36	54	-12.64

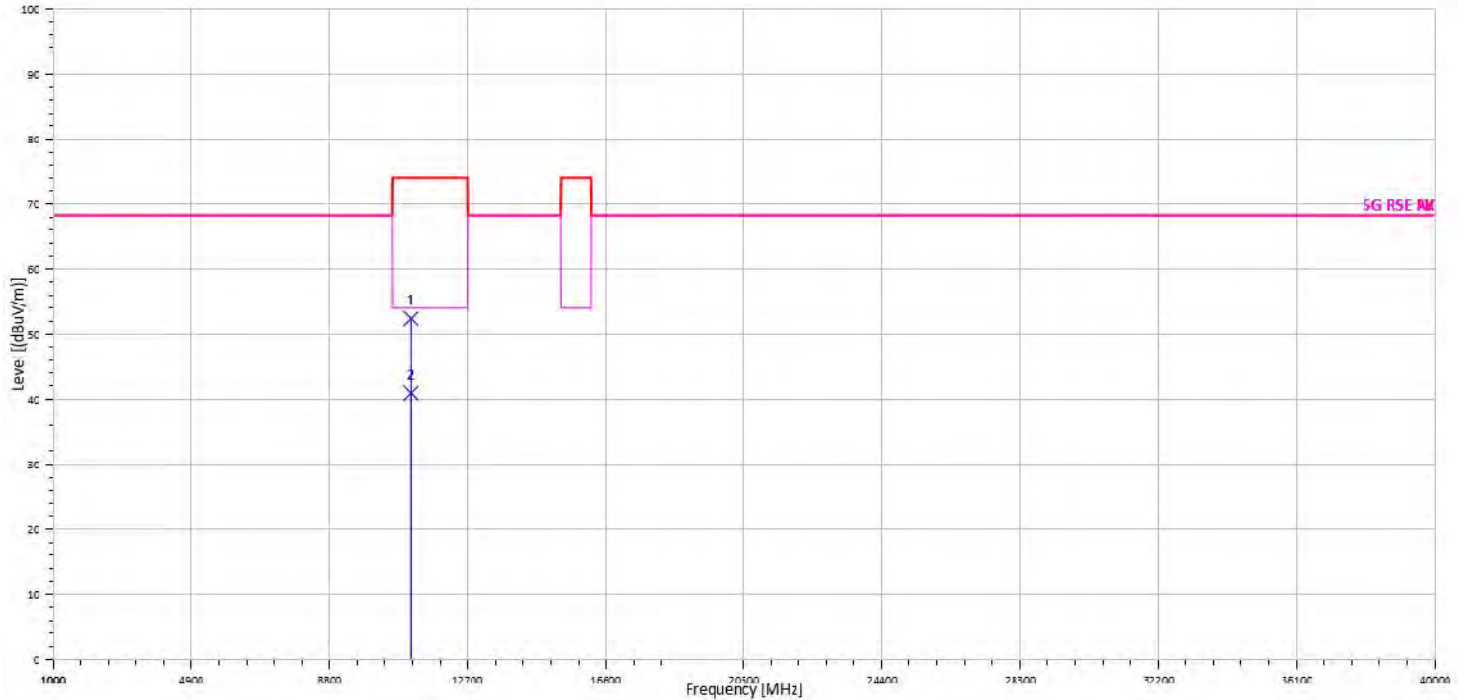
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Operation Mode :	802.11n40B3	Test Date :	2017/10/16
Fundamental Frequency :	5550 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH MID	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



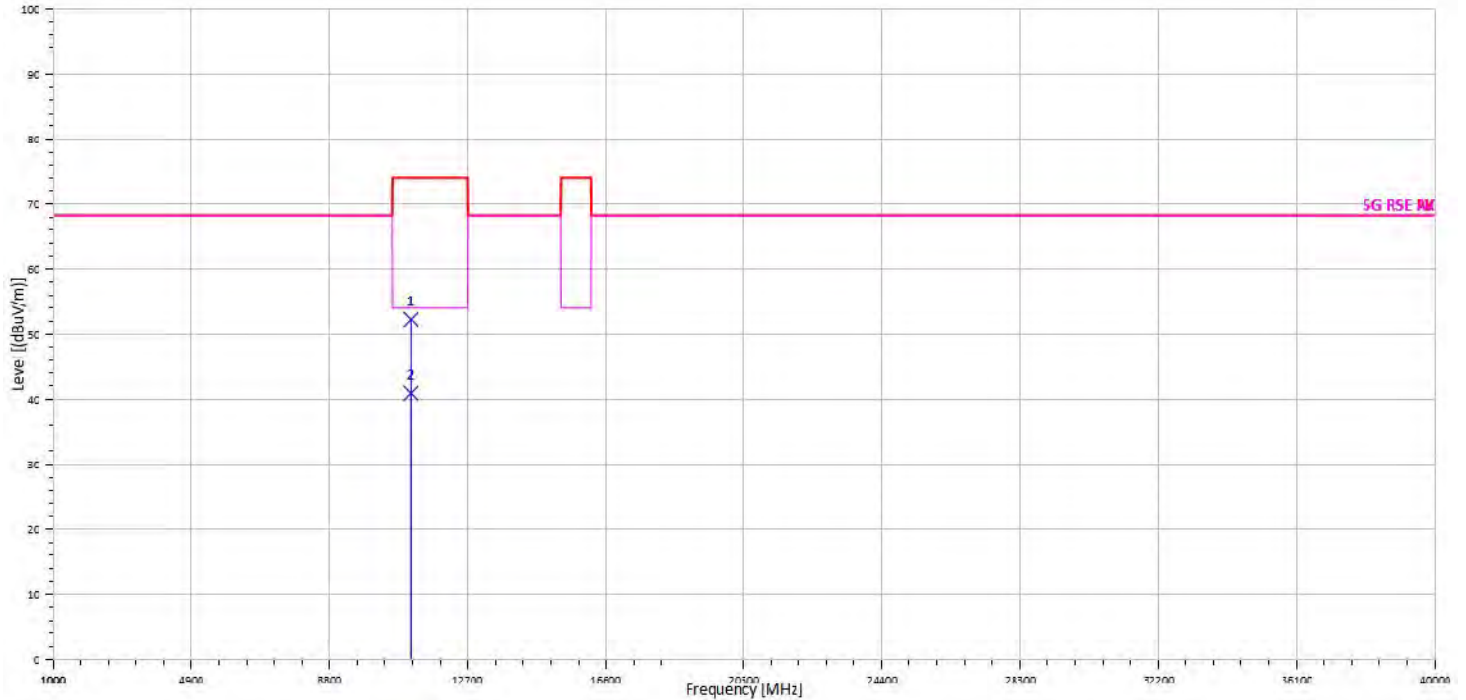
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11100.00	H	Peak	41.26	11.15	52.41	74	-21.59
11100.00	H	Average	29.75	11.15	40.90	54	-13.11

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Operation Mode : 802.11n40B3      Test Date : 2017/10/16  
 Fundamental Frequency : 5550 MHz      Temp. / Humi. : 22.8deg\_C/59RH  
 Operation Band : TX CH MID      Test Engineer : Enzo  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



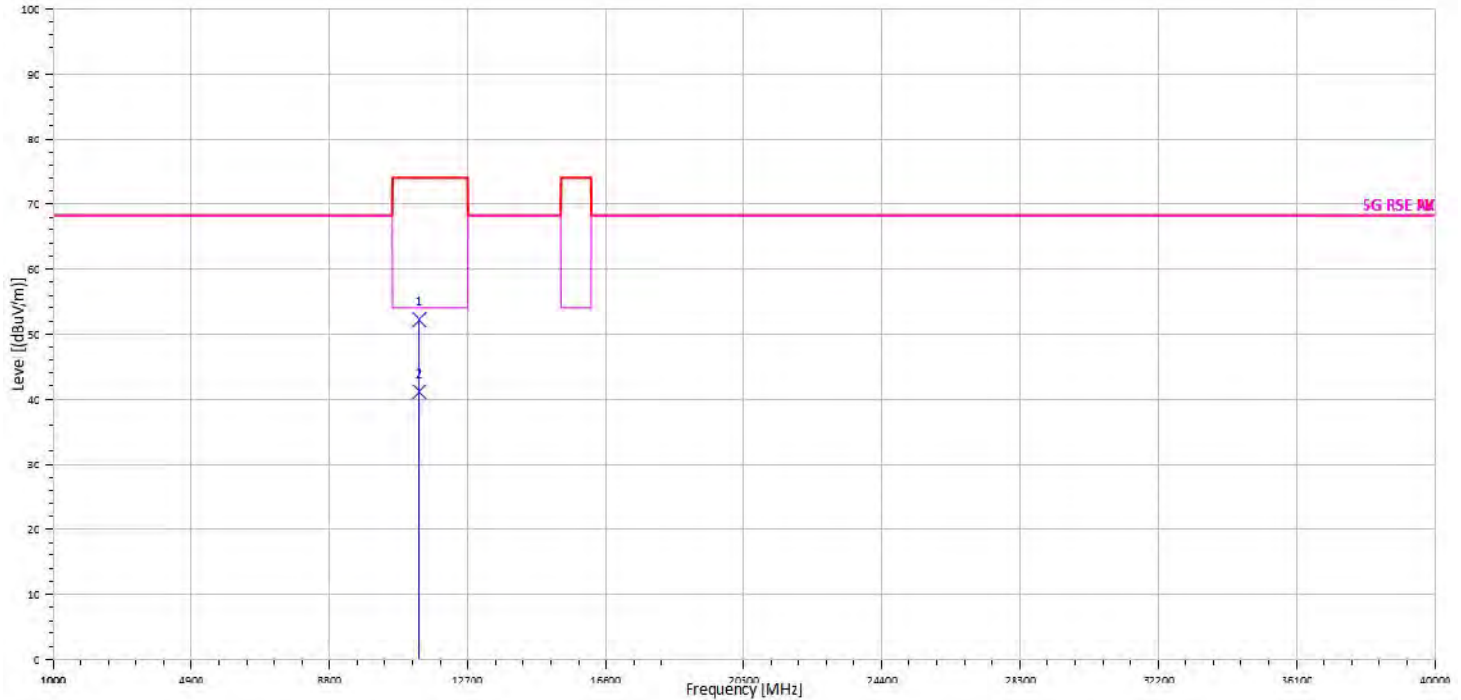
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11100.00	H	Peak	41.12	11.15	52.27	74	-21.73
11100.00	H	Average	29.74	11.15	40.89	54	-13.12

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Operation Mode : 802.11n40B3 Test Date : 2017/10/16  
 Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.8deg\_C/59RH  
 Operation Band : TX CH HIGH Test Engineer : Enzo  
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



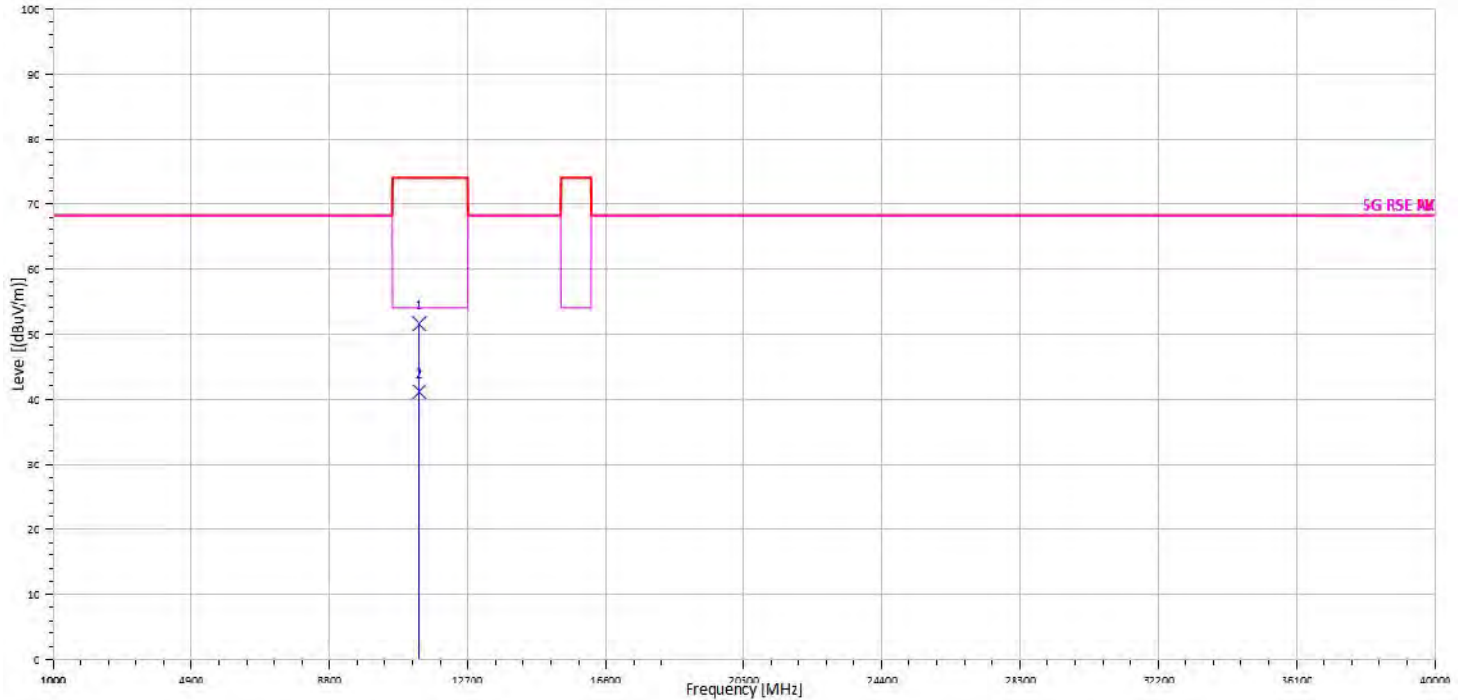
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11340.00	H	Peak	40.87	11.37	52.24	74	-21.76
11340.00	H	Average	29.76	11.37	41.13	54	-12.87

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Operation Mode :	802.11n40B3	Test Date :	2017/10/16
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11340.00	H	Peak	40.25	11.37	51.62	74	-22.38
11340.00	H	Average	29.77	11.37	41.14	54	-12.86

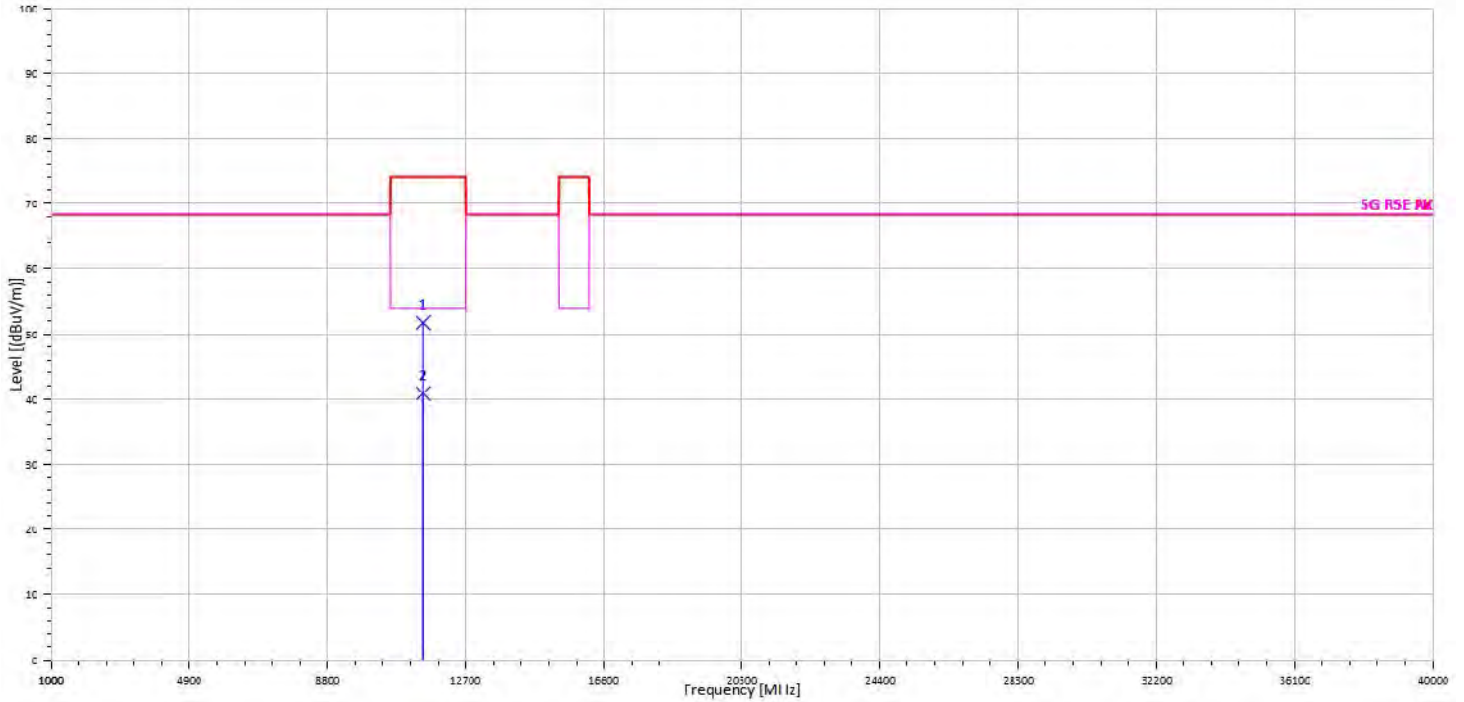
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### Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode :	802.11n40B4	Test Date :	2017/10/16
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



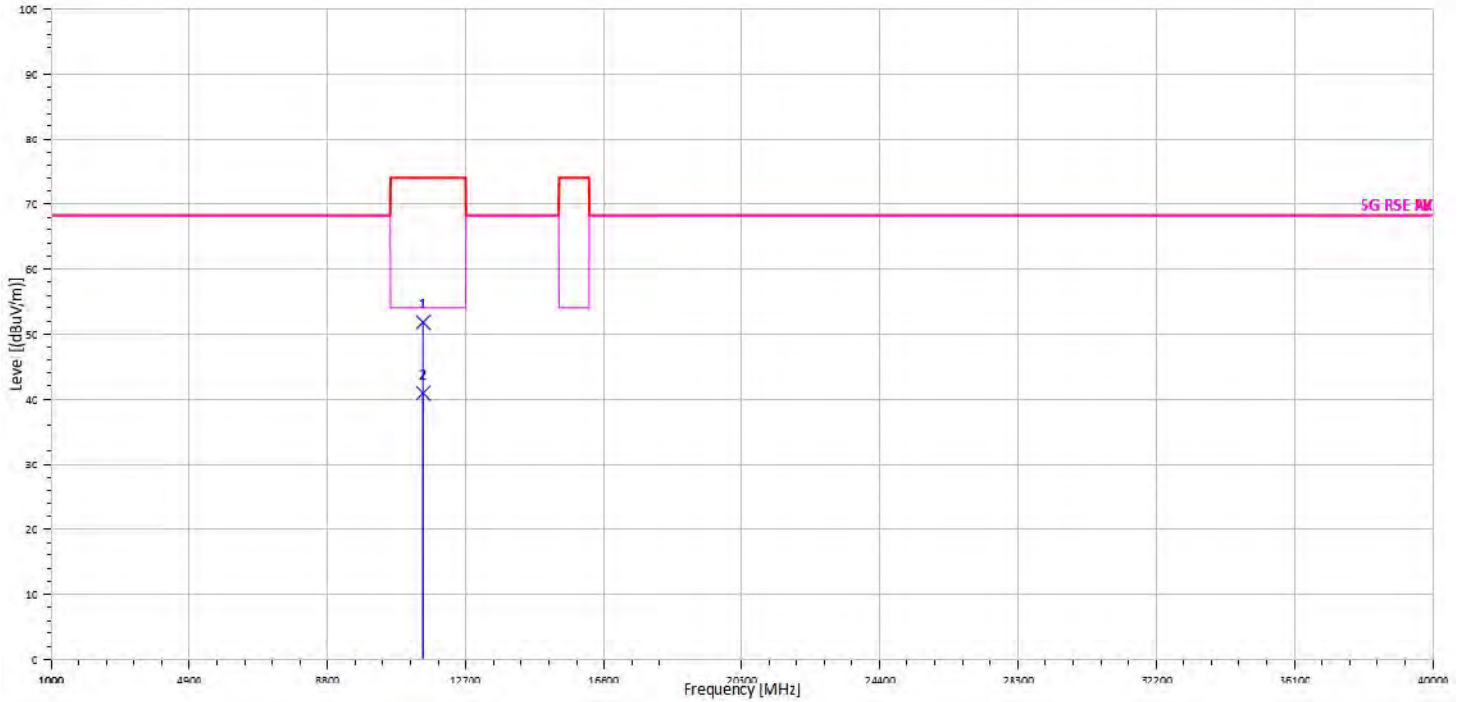
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11510.00	H	Peak	40.56	11.12	51.68	74	-22.32
11510.00	H	Average	29.74	11.12	40.86	54	-13.14

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Operation Mode :	802.11n40B4	Test Date :	2017/10/16
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



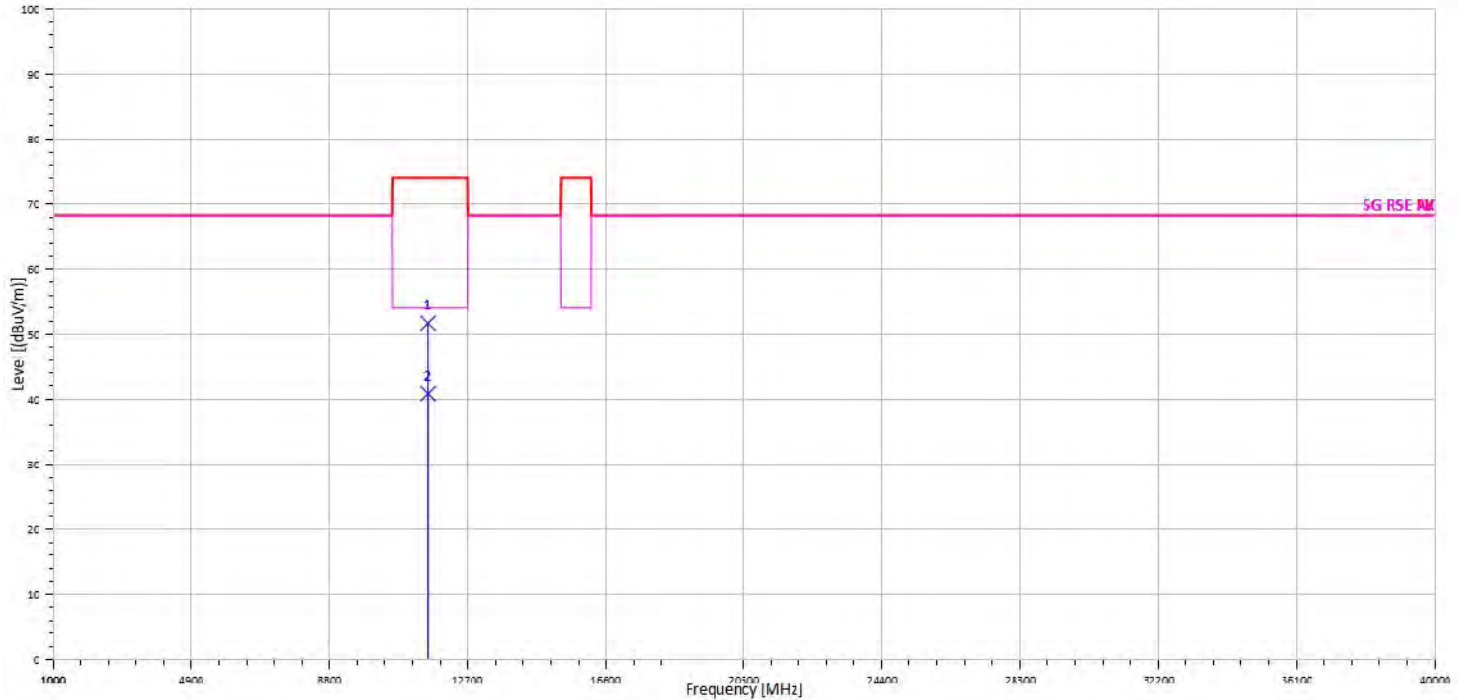
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11510.00	H	Peak	40.72	11.12	51.84	74	-22.16
11510.00	H	Average	29.78	11.12	40.90	54	-13.10

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Operation Mode : 802.11n40B4      Test Date : 2017/10/16  
 Fundamental Frequency : 5795 MHz      Temp. / Humi. : 22.8deg\_C/59RH  
 Operation Band : TX CH HIGH      Test Engineer : Enzo  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



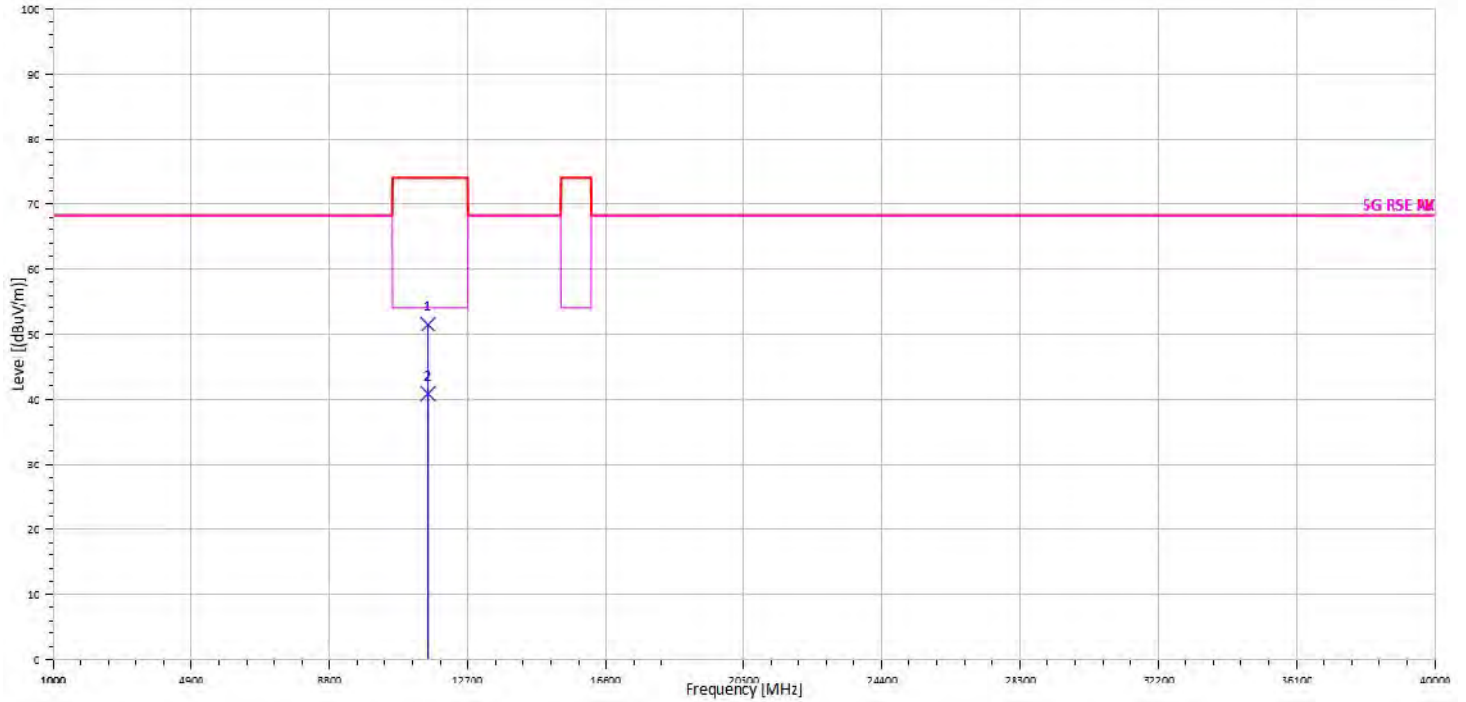
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11590.00	H	Peak	40.66	11.05	51.71	74	-22.29
11590.00	H	Average	29.77	11.05	40.81	54	-13.19

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Operation Mode :	802.11n40B4	Test Date :	2017/10/16
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11590.00	H	Peak	40.46	11.05	51.51	74	-22.49
11590.00	H	Average	29.76	11.05	40.80	54	-13.20

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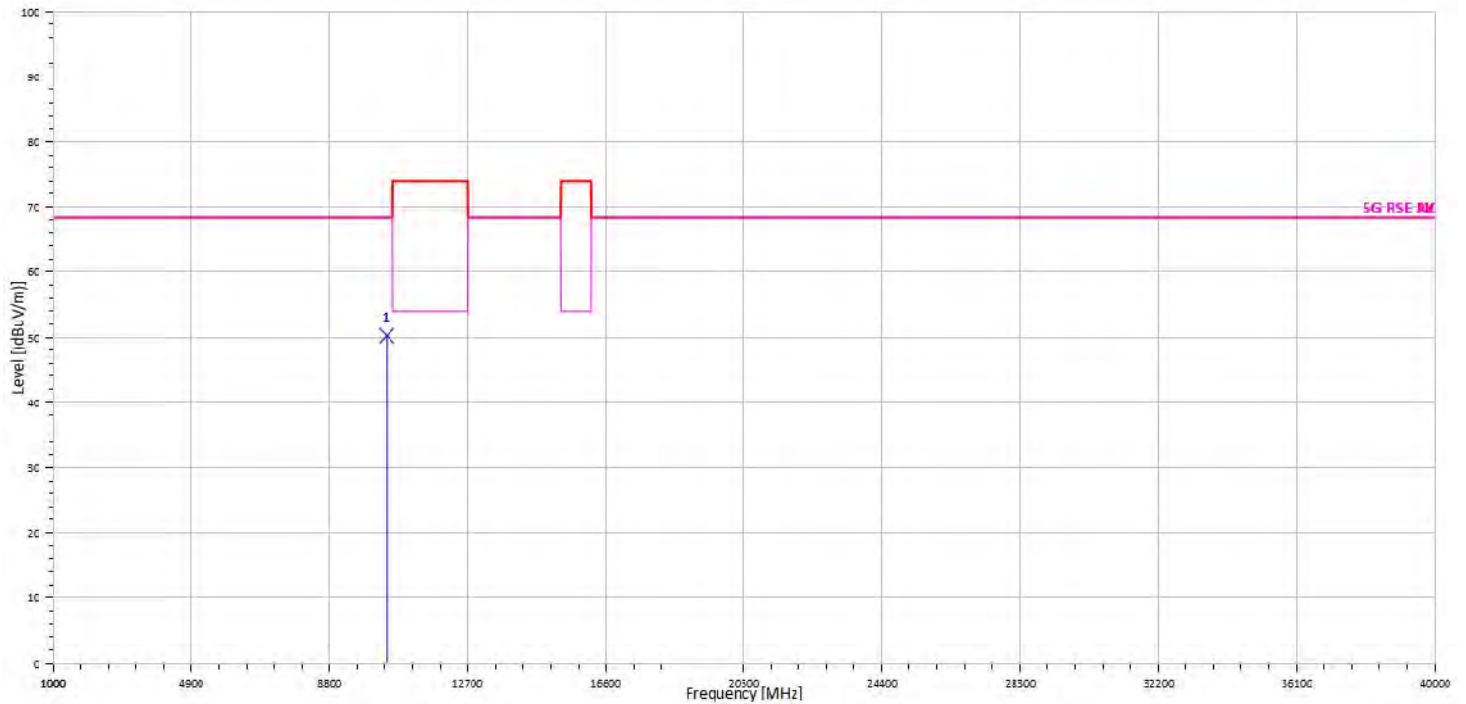
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### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode :	802.11ac80B1	Test Date :	2017/10/16
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



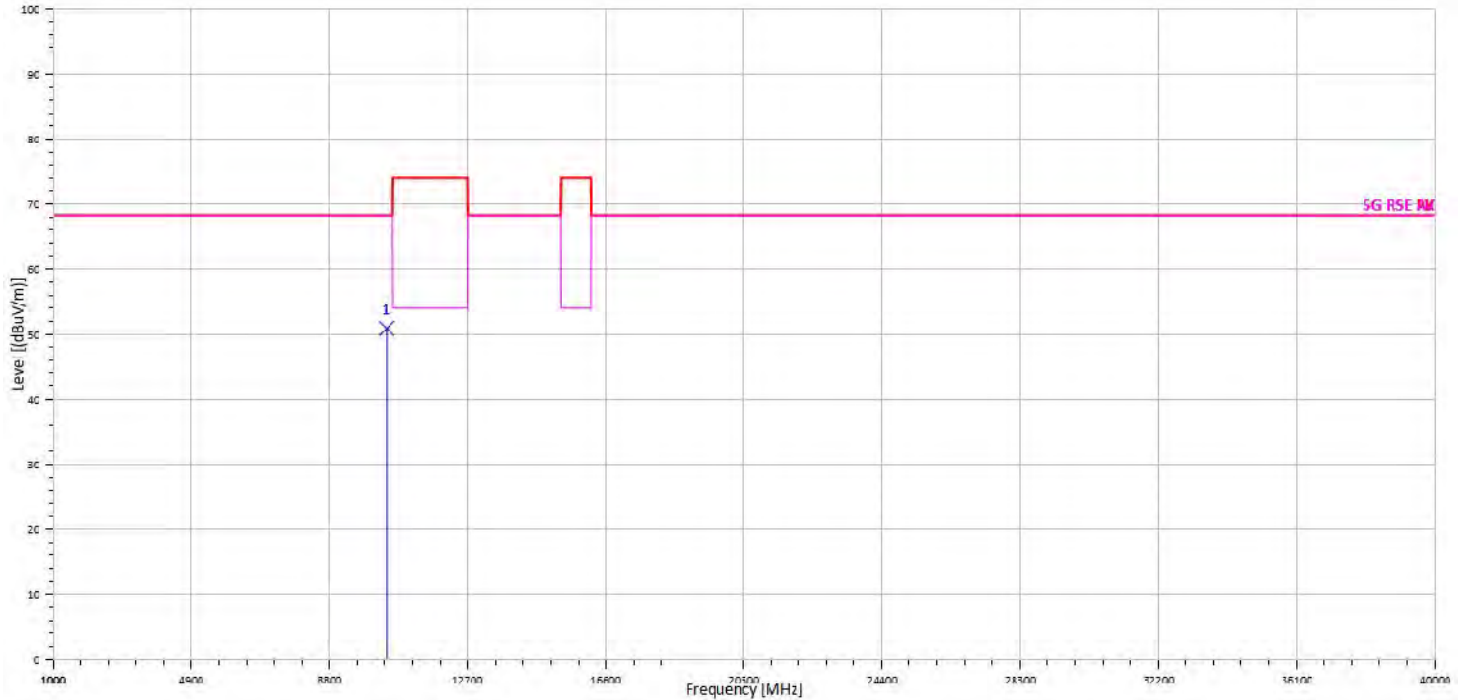
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10420.00	H	Peak	40.70	9.53	50.23	68.3	-18.07

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Operation Mode :	802.11ac80B1	Test Date :	2017/10/16
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10420.00	H	Peak	41.36	9.53	50.89	68.3	-17.41

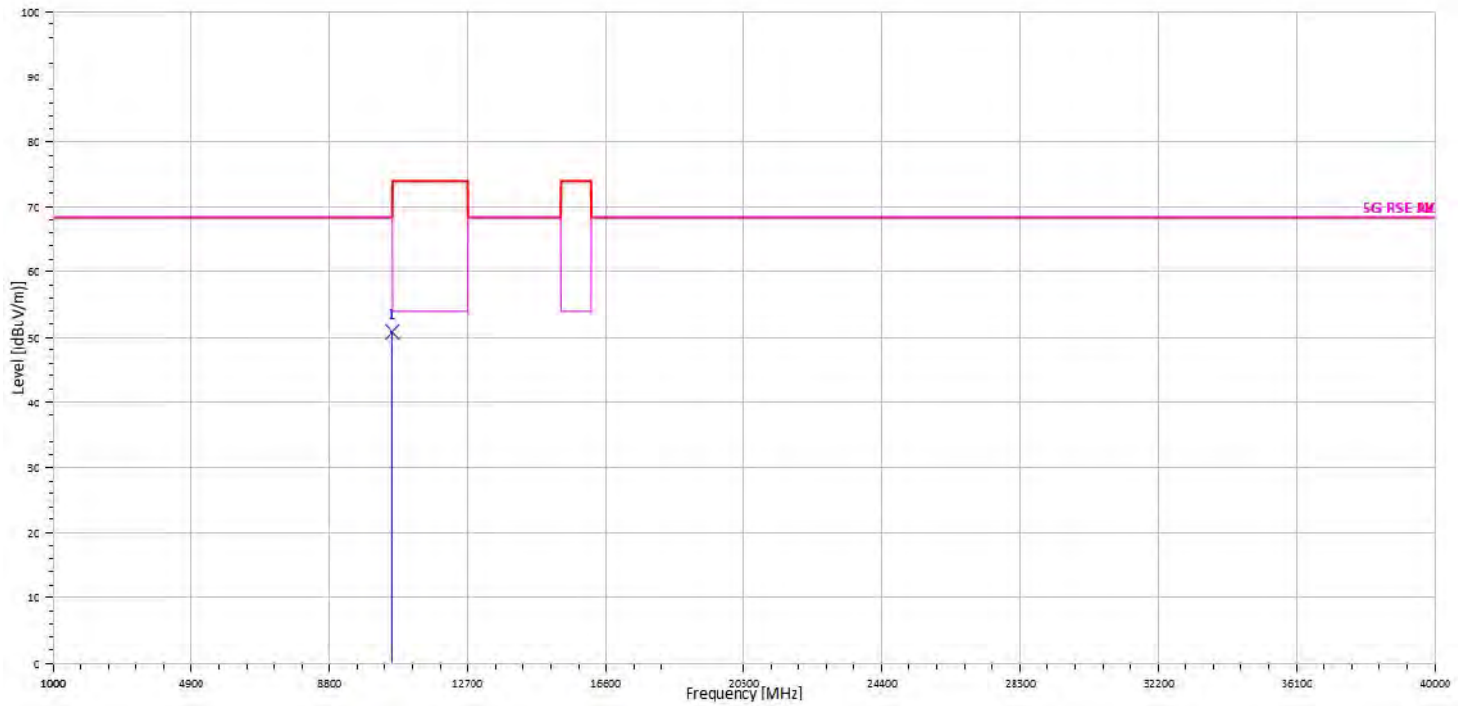
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### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Mode :	802.11ac80B2	Test Date :	2017/10/16
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



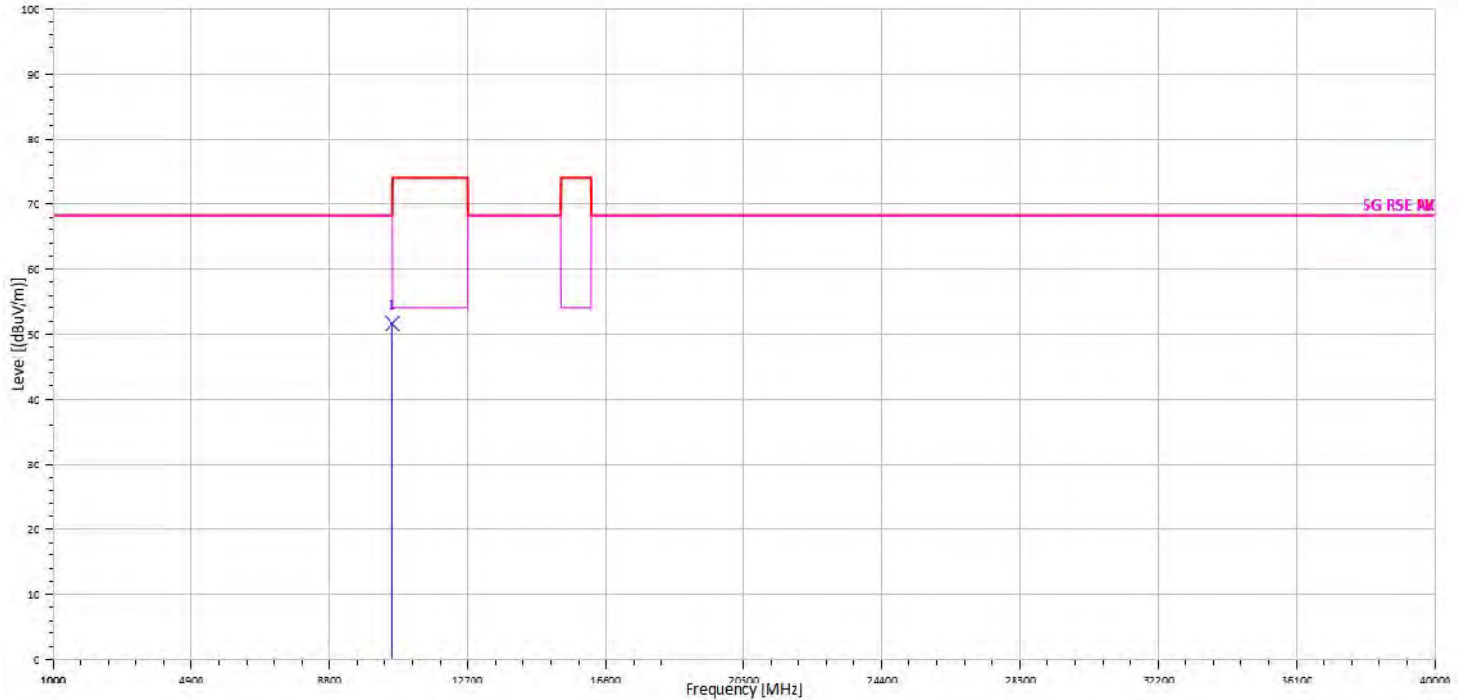
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10580.00	H	Peak	40.73	10.05	50.79	68.3	-17.51

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Operation Mode :	802.11ac80B2	Test Date :	2017/10/16
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10580.00	H	Peak	41.61	10.05	51.66	68.3	-16.64

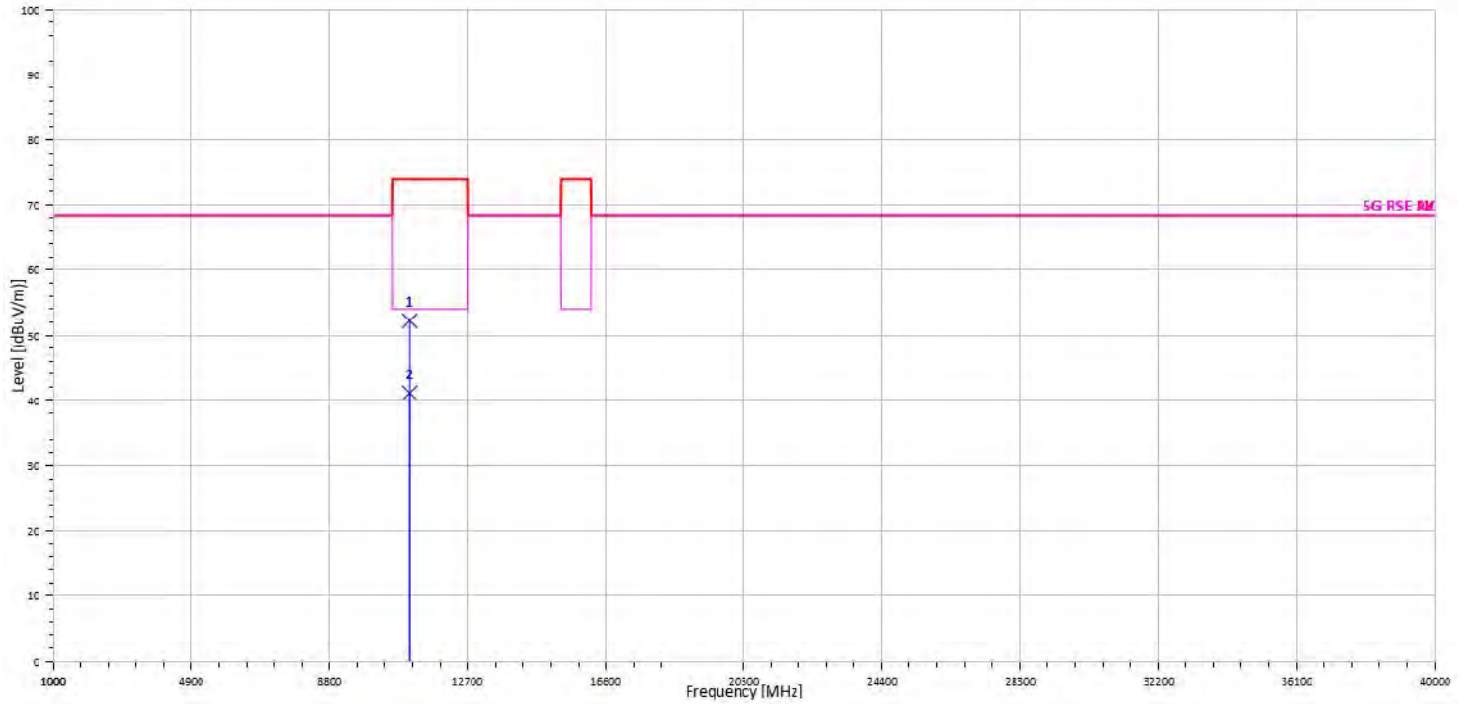
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### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Mode :	802.11ac80B3	Test Date :	2017/10/16
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



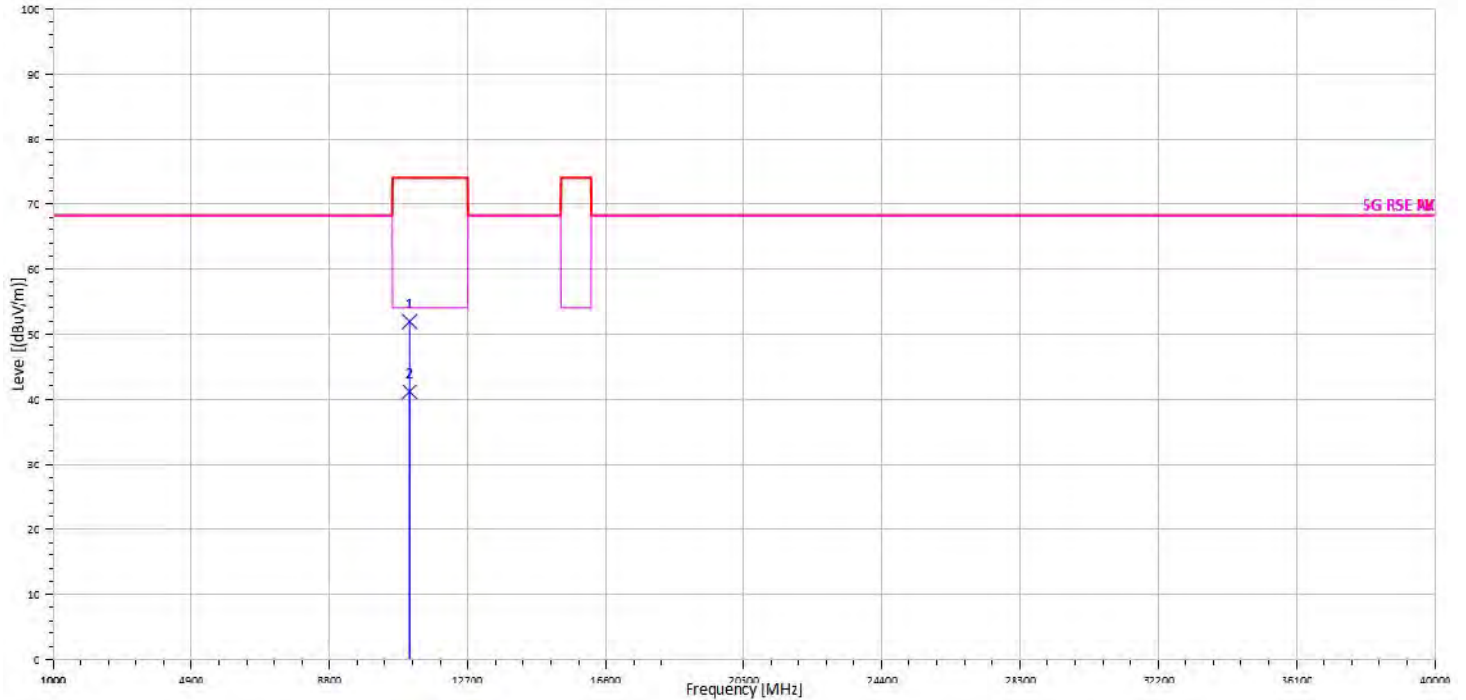
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11060.00	H	Peak	40.83	11.37	52.21	74	-21.79
11060.00	H	Average	29.75	11.37	41.12	54	-12.88

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Operation Mode :	802.11ac80B3	Test Date :	2017/10/16
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



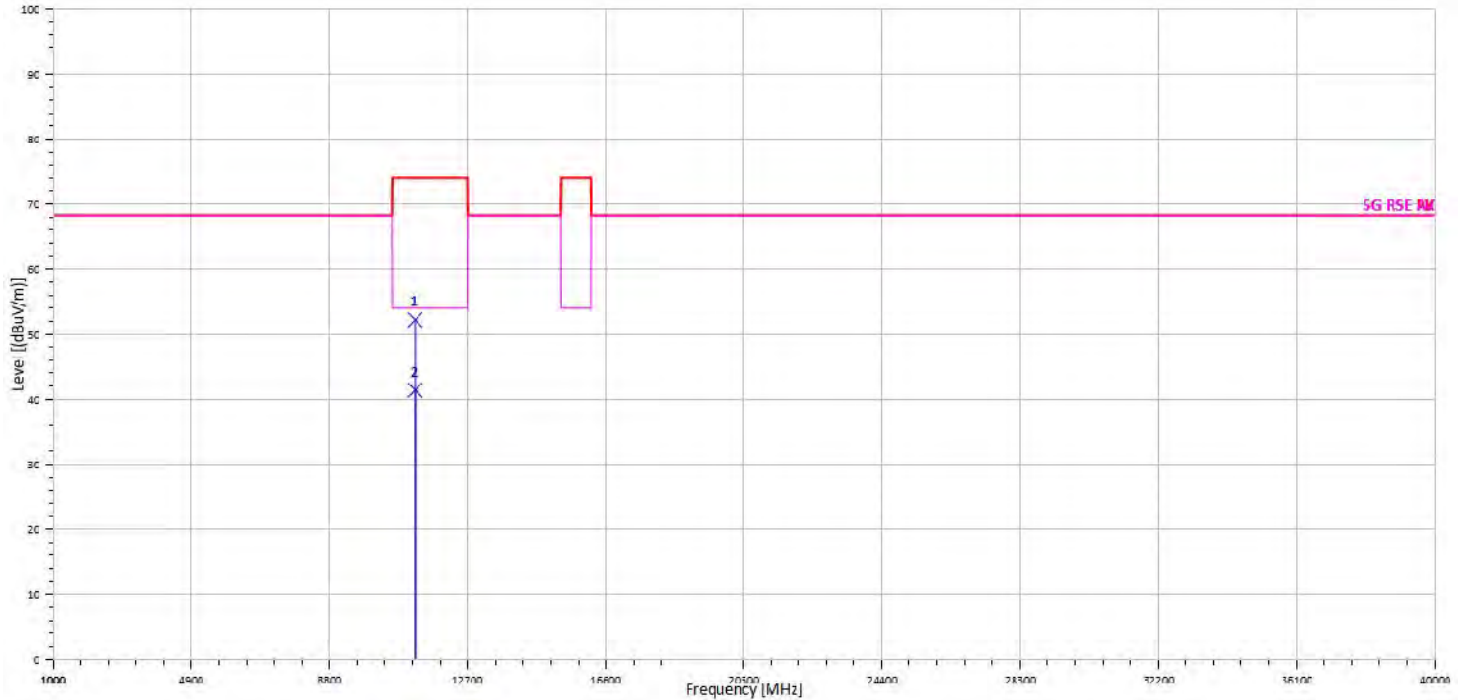
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11060.00	H	Peak	40.58	11.37	51.95	74	-22.05
11060.00	H	Average	29.76	11.37	41.13	54	-12.87

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Operation Mode :	802.11ac80B3	Test Date :	2017/10/16
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH MID	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



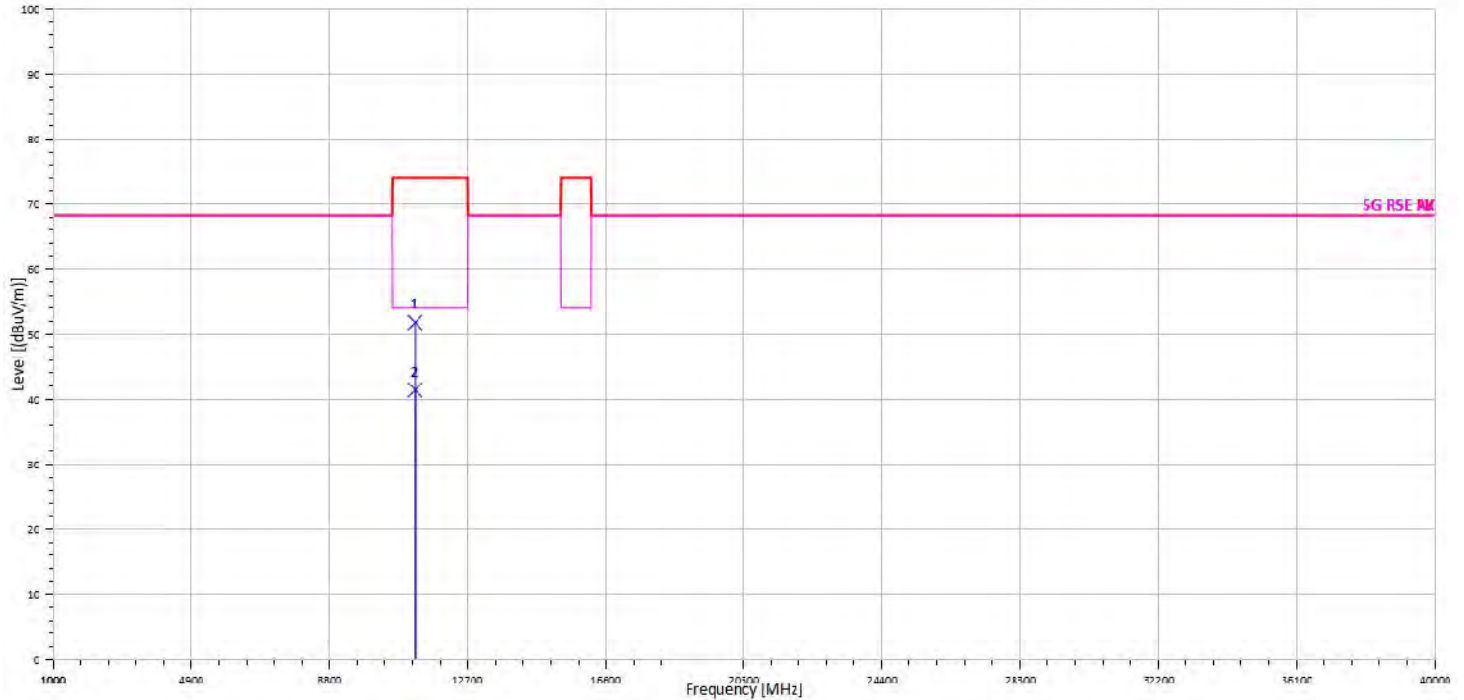
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11220.00	H	Peak	40.54	11.64	52.19	74	-21.81
11220.00	H	Average	29.76	11.64	41.40	54	-12.60

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Operation Mode :	802.11ac80B3	Test Date :	2017/10/16
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH MID	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11220.00	H	Peak	40.17	11.64	51.81	74	-22.19
11220.00	H	Average	29.79	11.64	41.43	54	-12.57

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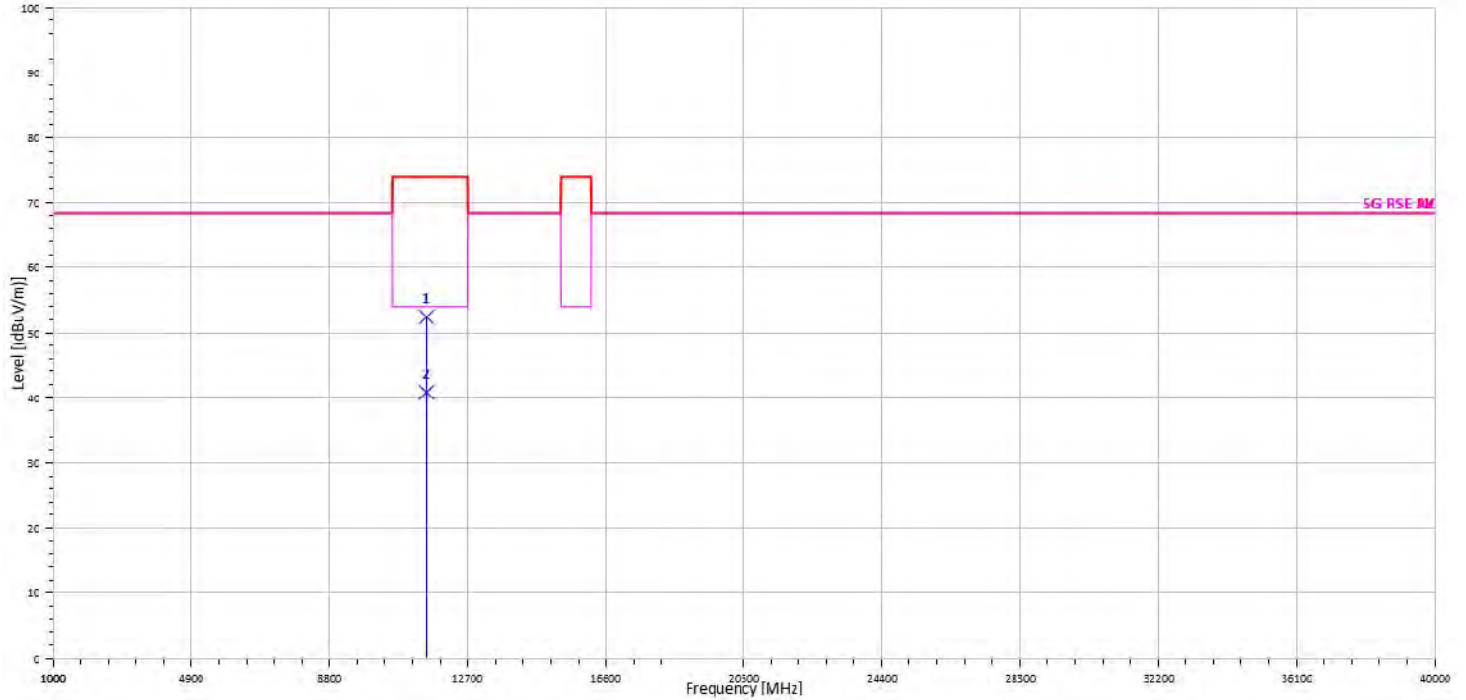
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### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Mode :	802.11ac80B4	Test Date :	2017/10/16
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



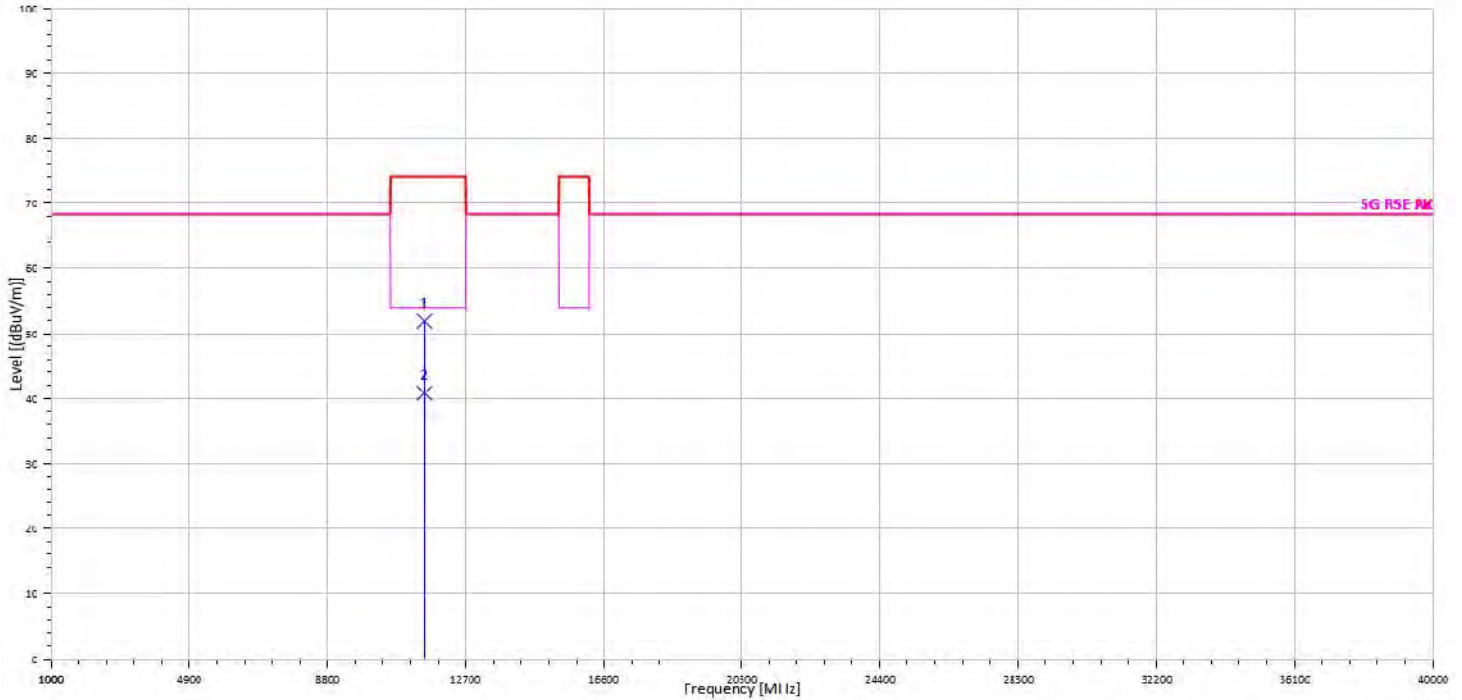
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11550.00	H	Peak	41.34	11.08	52.42	74	-21.58
11550.00	H	Average	29.77	11.08	40.85	54	-13.15

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Operation Mode :	802.11ac80B4	Test Date :	2017/10/16
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	TX CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11550.00	H	Peak	40.77	11.08	51.85	74	-22.15
11550.00	H	Average	29.74	11.08	40.82	54	-13.18

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.

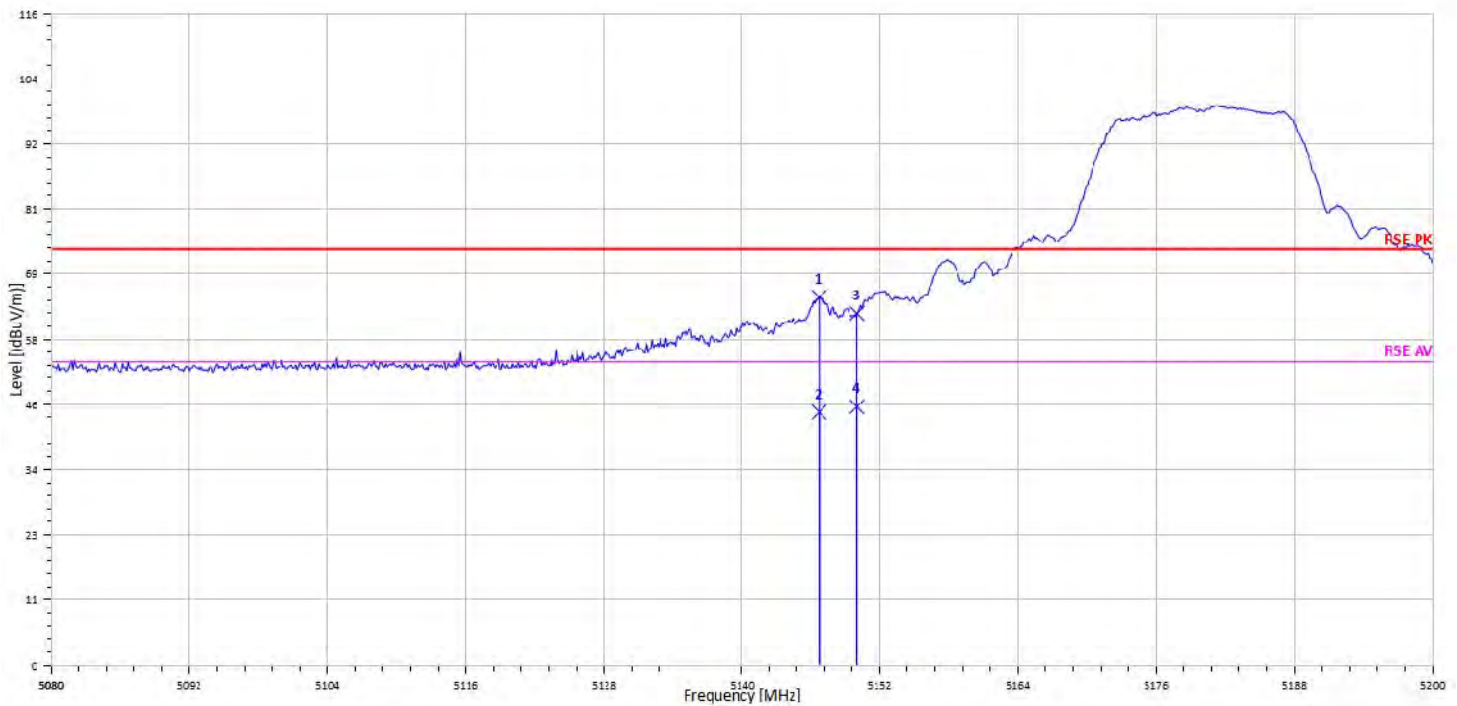
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### Band edge falling to restricted band

#### 802.11a mode

Operation Mode :	802.11aB1	Test Date :	2017/10/6
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



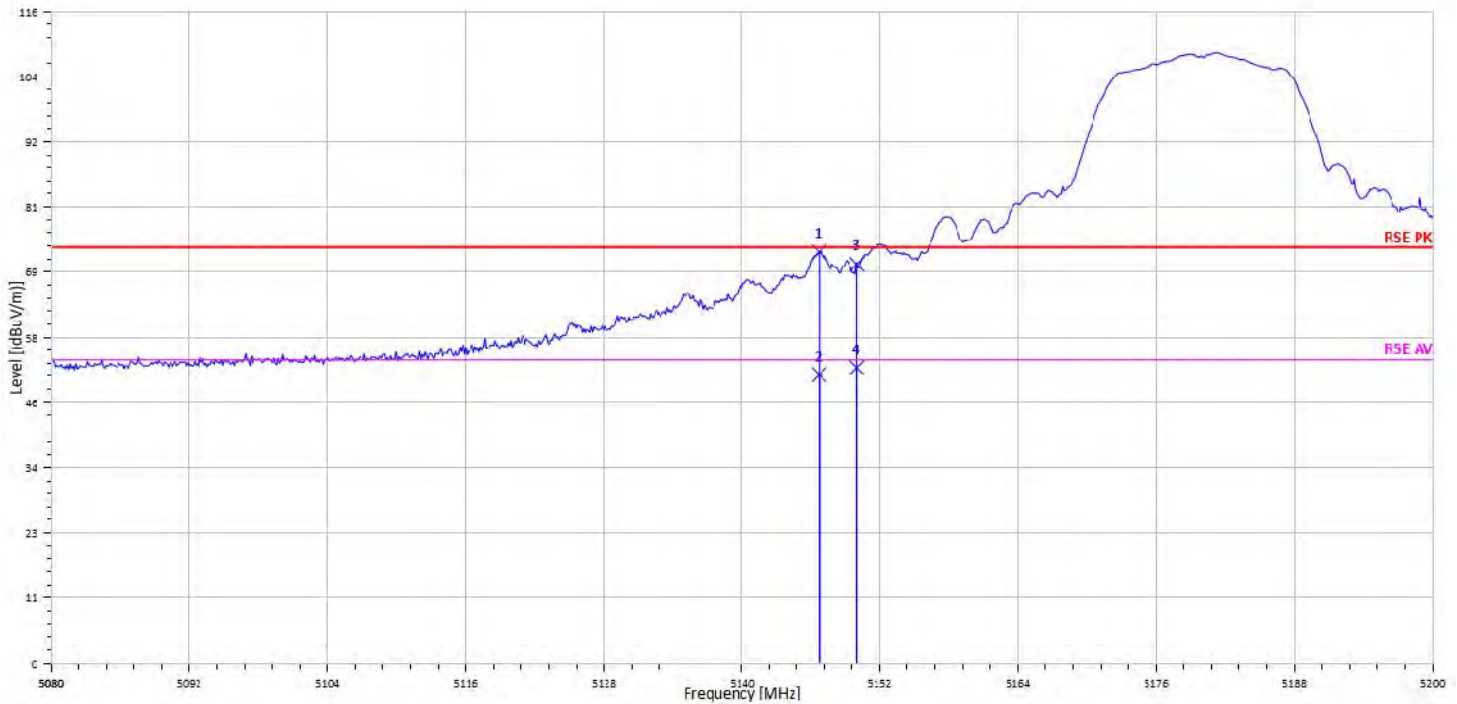
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5146.72	S	Peak	65.63	-0.17	65.46	74	-8.54
5146.72	S	Average	45.19	-0.17	45.02	54	-8.98
5150.00	E	Peak	62.77	-0.17	62.60	74	-11.40
5150.00	E	Average	46.13	-0.17	45.96	54	-8.04

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Operation Mode :	802.11aB1	Test Date :	2017/10/6
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



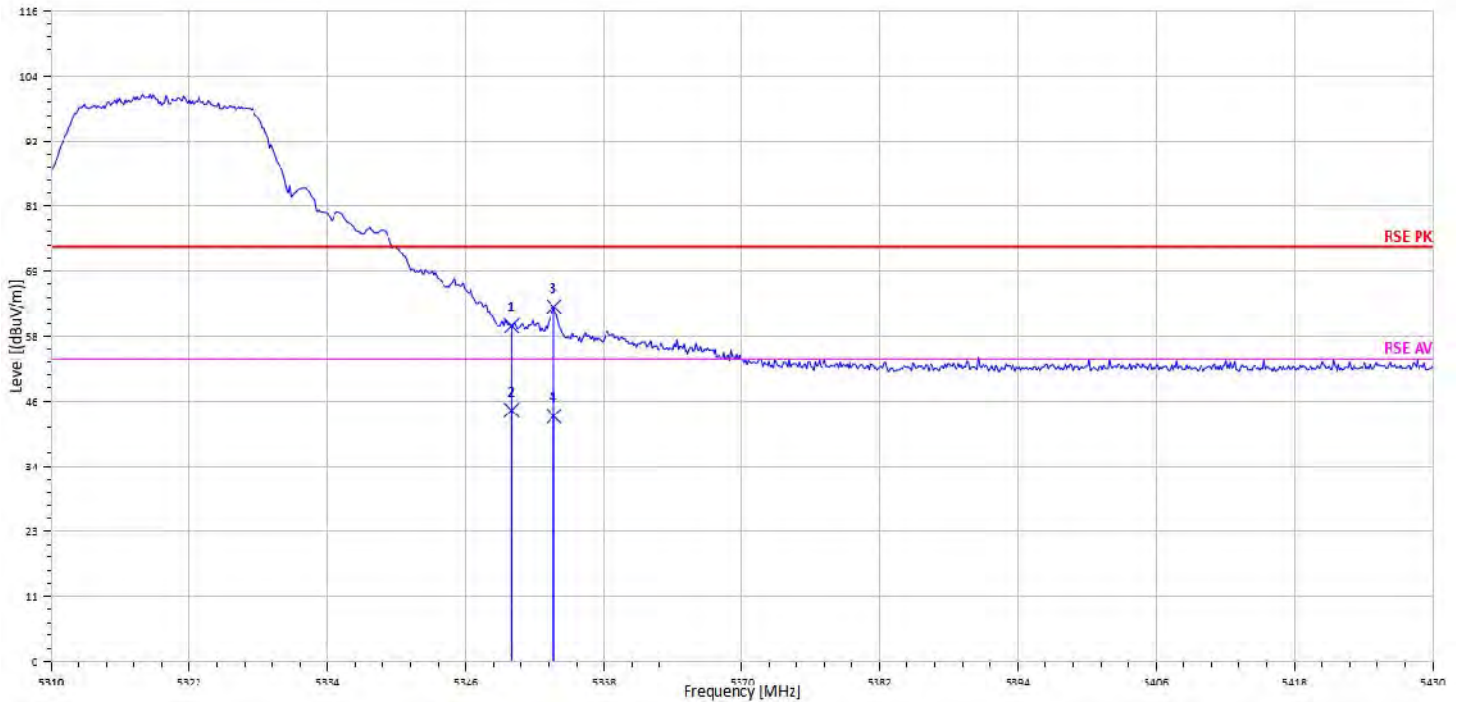
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5146.72	S	Peak	73.34	-0.17	73.17	74	-0.83
5146.72	S	Average	51.51	-0.17	51.34	54	-2.66
5150.00	E	Peak	71.16	-0.17	70.99	74	-3.01
5150.00	E	Average	52.76	-0.17	52.59	54	-1.41

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Operation Mode :	802.11aB2	Test Date :	2017/10/6
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



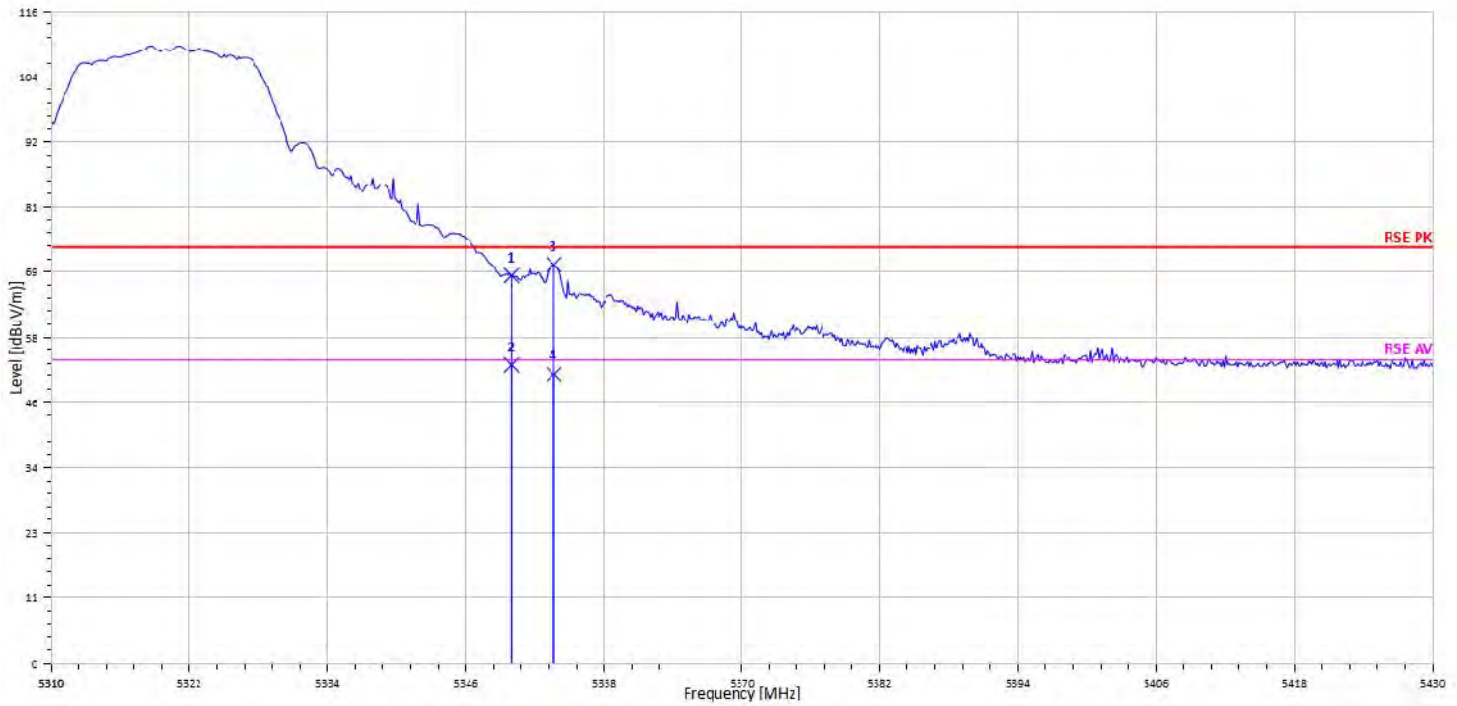
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5350.00	E	Peak	60.06	-0.15	59.91	74	-14.09
5350.00	E	Average	44.94	-0.15	44.78	54	-9.22
5353.68	S	Peak	63.40	-0.15	63.25	74	-10.75
5353.68	S	Average	43.87	-0.15	43.72	54	-10.28

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Operation Mode :	802.11aB2	Test Date :	2017/10/6
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



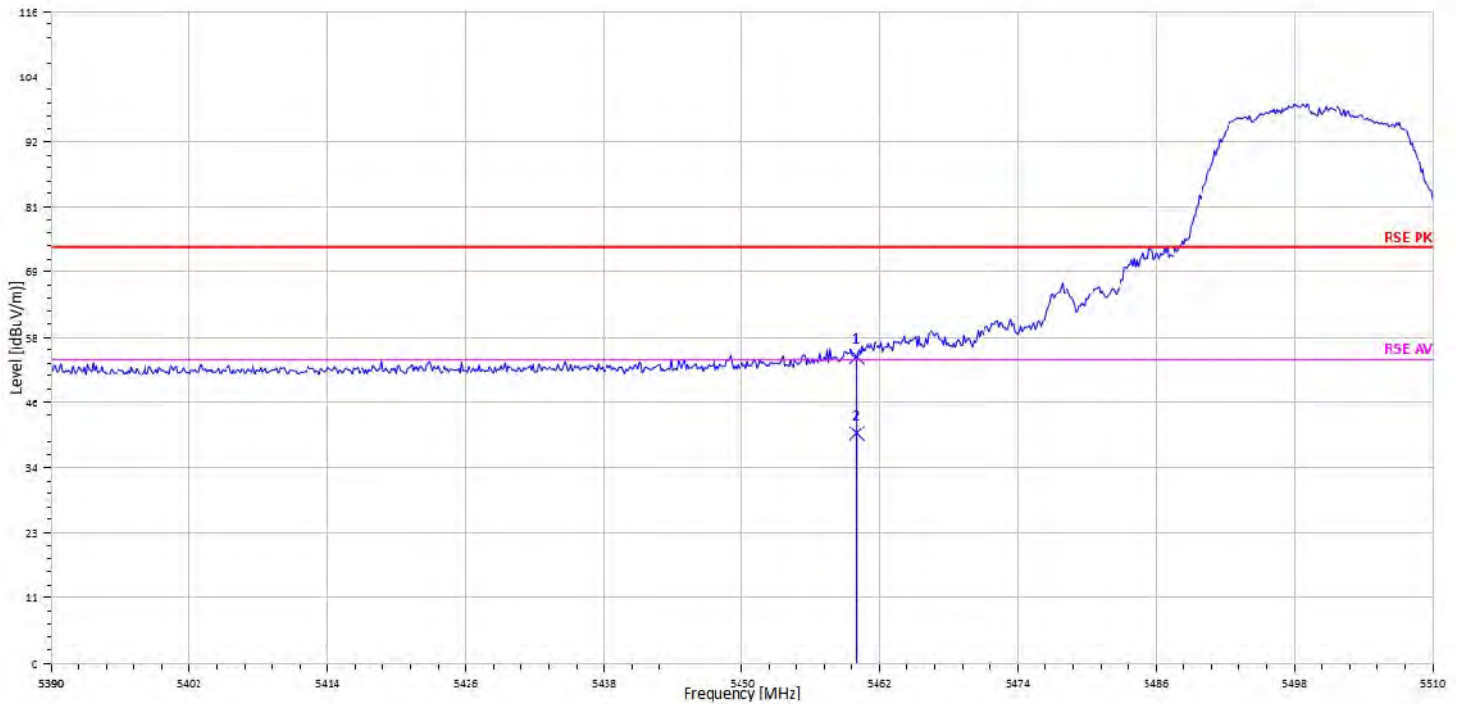
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	69.14	-0.15	68.98	74	-5.02
5350.00	E	Average	53.25	-0.15	53.09	54	-0.91
5353.68	S	Peak	71.06	-0.15	70.91	74	-3.09
5353.68	S	Average	51.52	-0.15	51.37	54	-2.63

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Operation Mode :	802.11aB3	Test Date :	2017/10/6
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



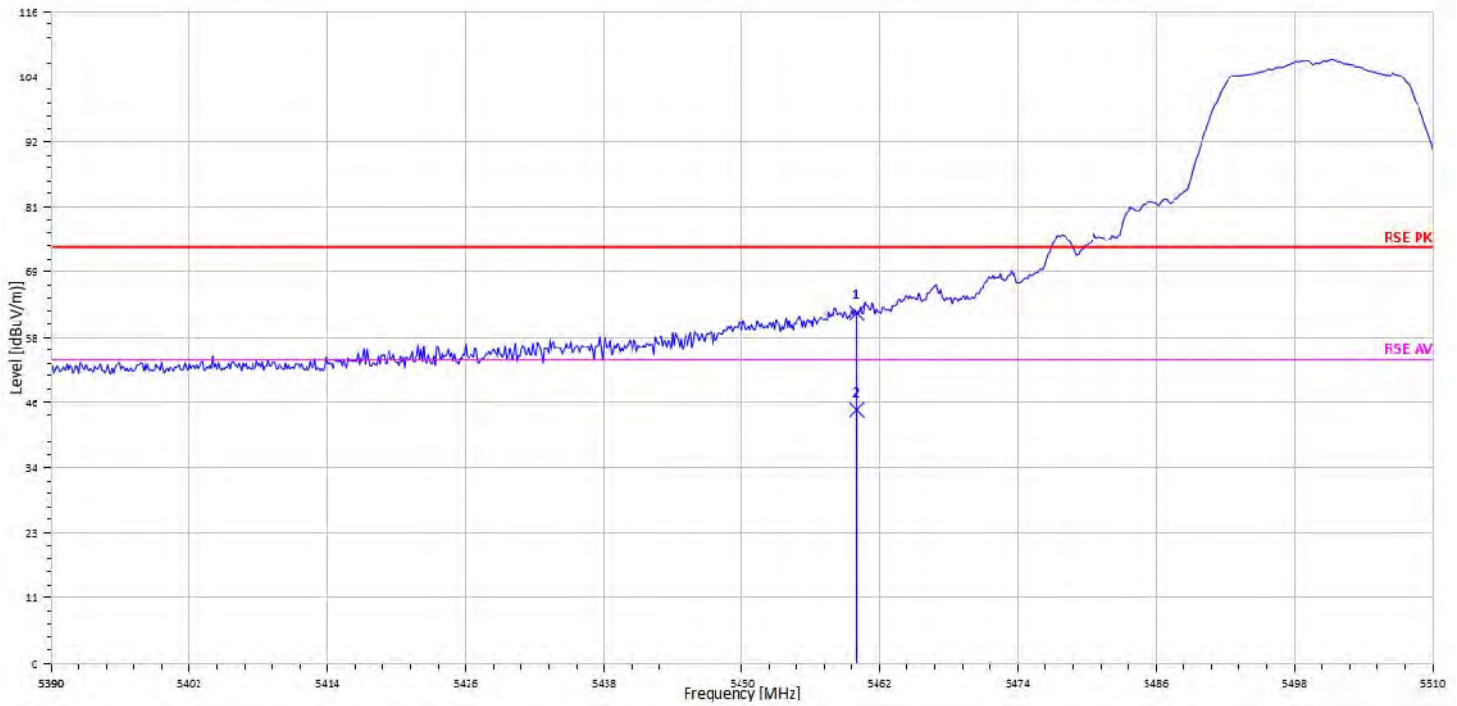
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	E	Peak	54.43	0.06	54.49	74	-19.51
5460.00	E	Average	40.81	0.06	40.87	54	-13.13

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Operation Mode :	802.11aB3	Test Date :	2017/10/6
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5460.00	E	Peak	62.29	0.06	62.35	74	-11.65
5460.00	E	Average	44.95	0.06	45.01	54	-8.99

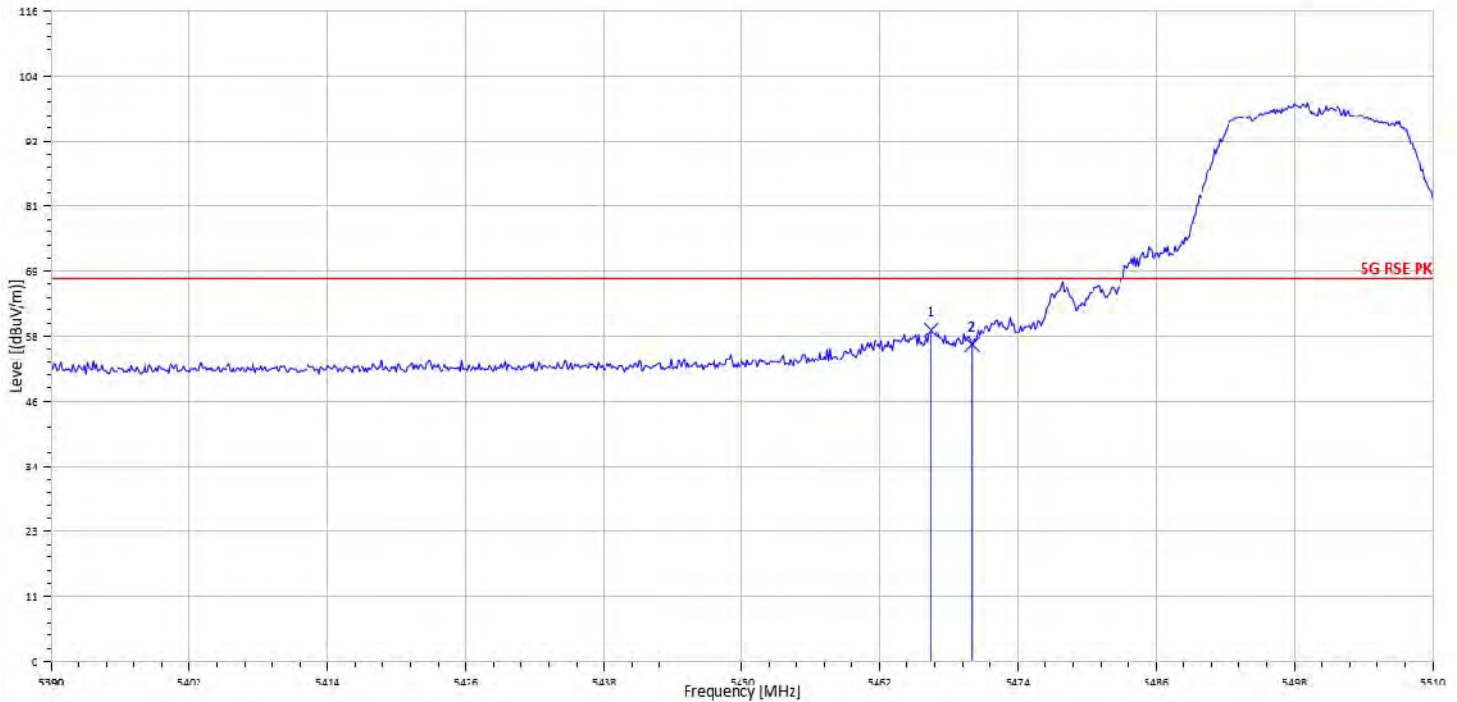
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Operation Mode :	802.11aB3	Test Date :	2017/10/6
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



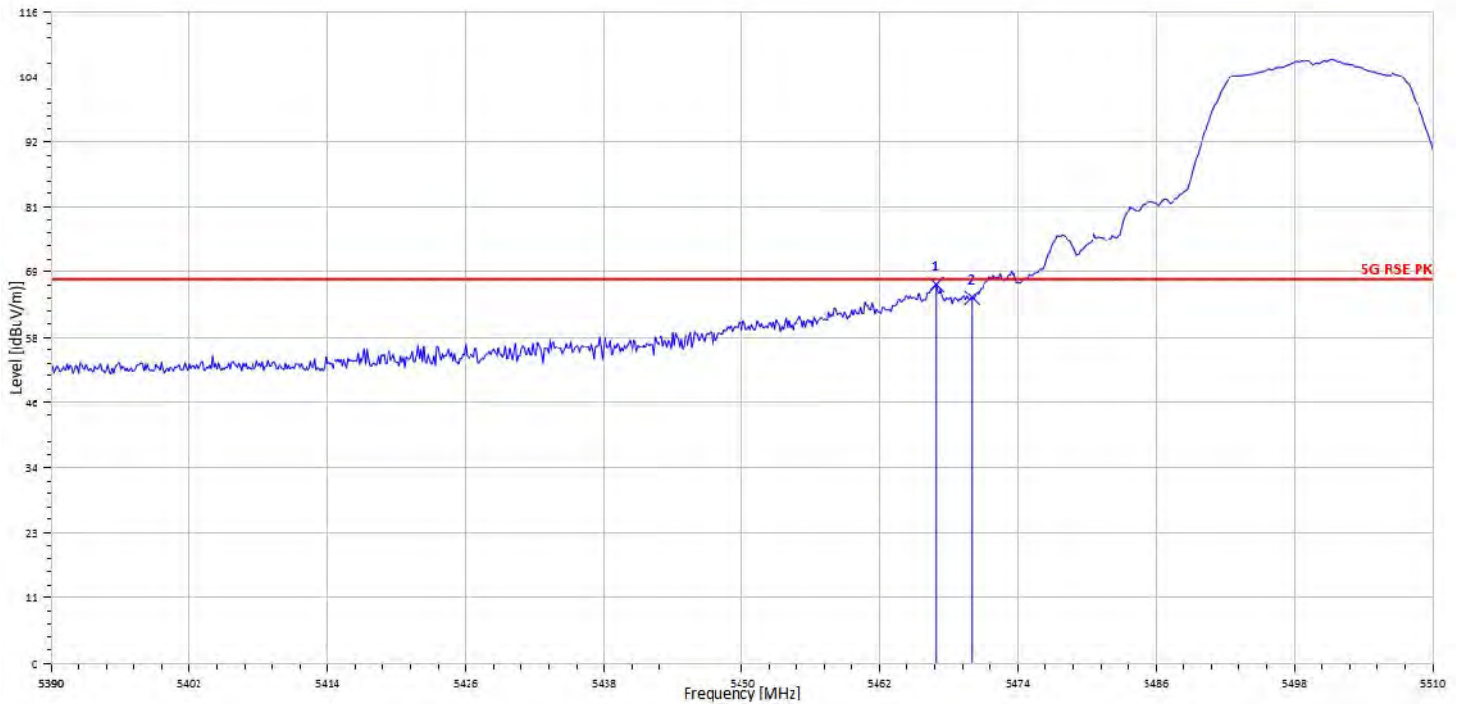
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5466.44	S	Peak	59.01	0.07	59.08	68.3	-9.22
5470.00	E	Peak	56.43	0.08	56.51	68.3	-11.79

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Operation Mode :	802.11aB3	Test Date :	2017/10/6
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



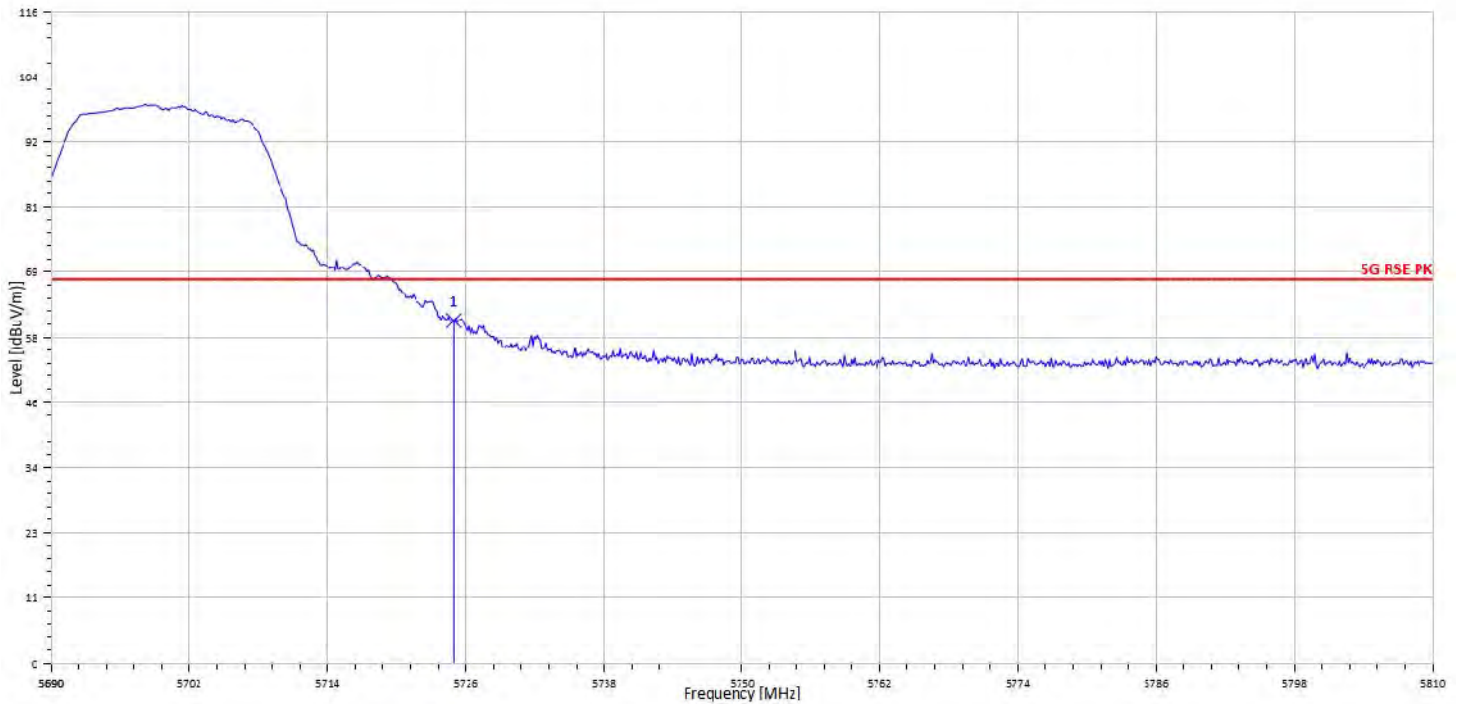
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5466.92	S	Peak	67.33	0.07	67.40	68.3	-0.90
5470.00	E	Peak	64.94	0.08	65.02	68.3	-3.28

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Operation Mode :	802.11aB3	Test Date :	2017/10/6
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



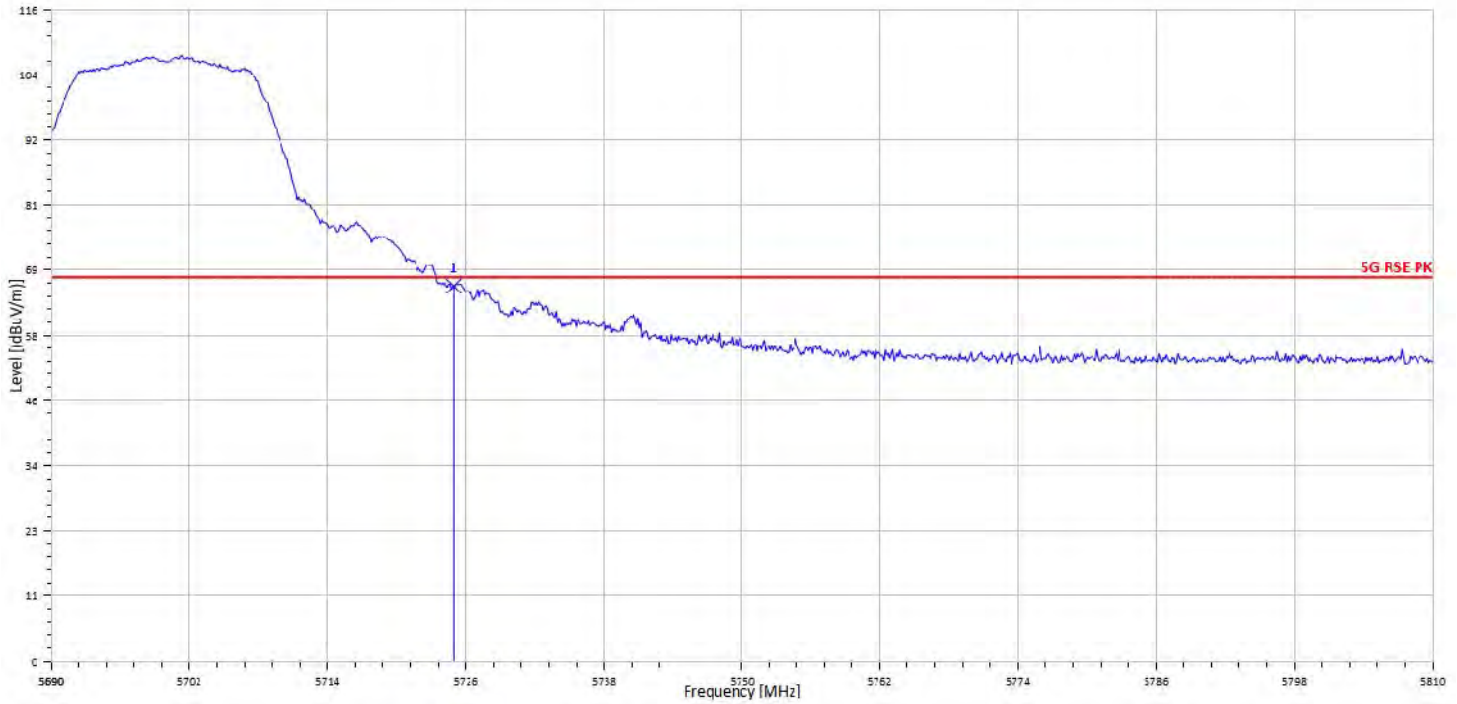
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	E	Peak	60.27	0.69	60.95	68.3	-7.35

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Operation Mode :	802.11aB3	Test Date :	2017/10/6
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



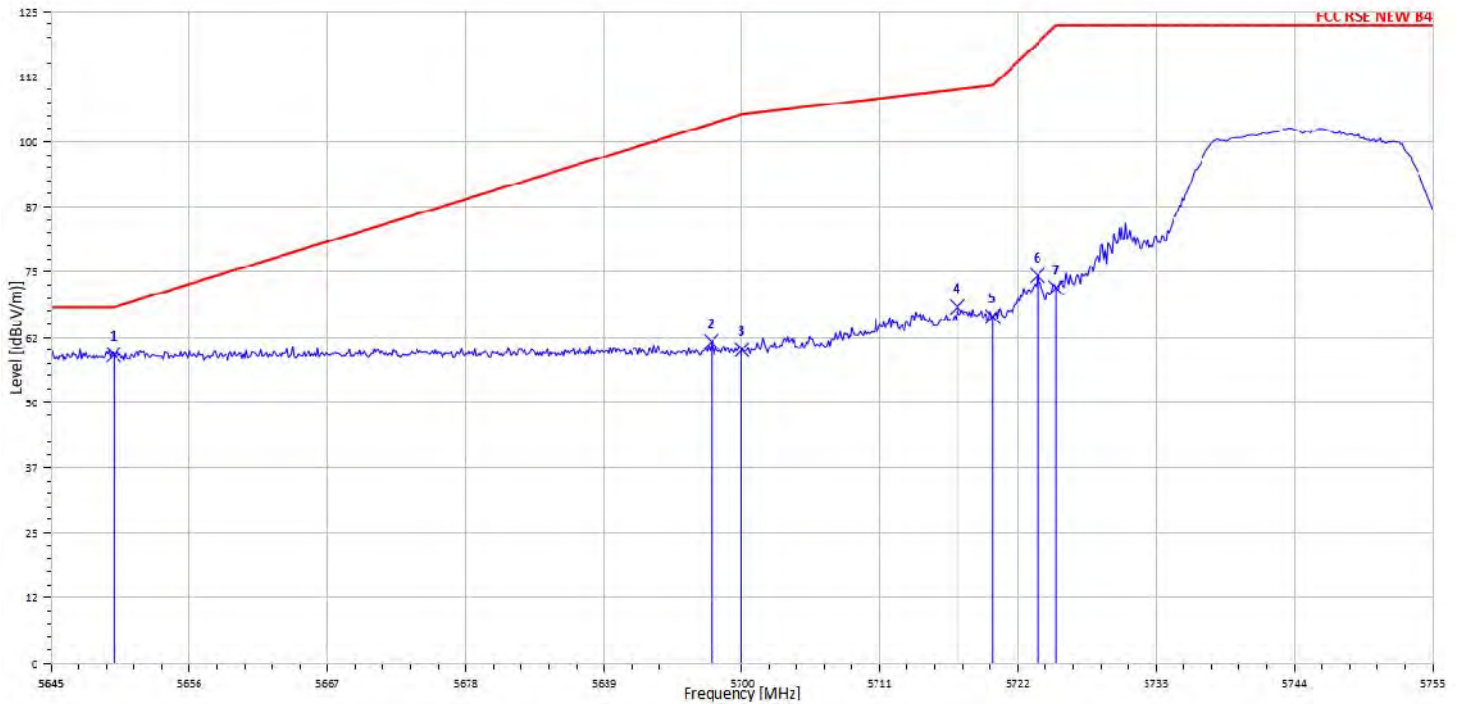
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	E	Peak	66.04	0.69	66.73	68.3	-1.57

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Operation Mode :	802.11aB4	Test Date :	2017/10/13
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



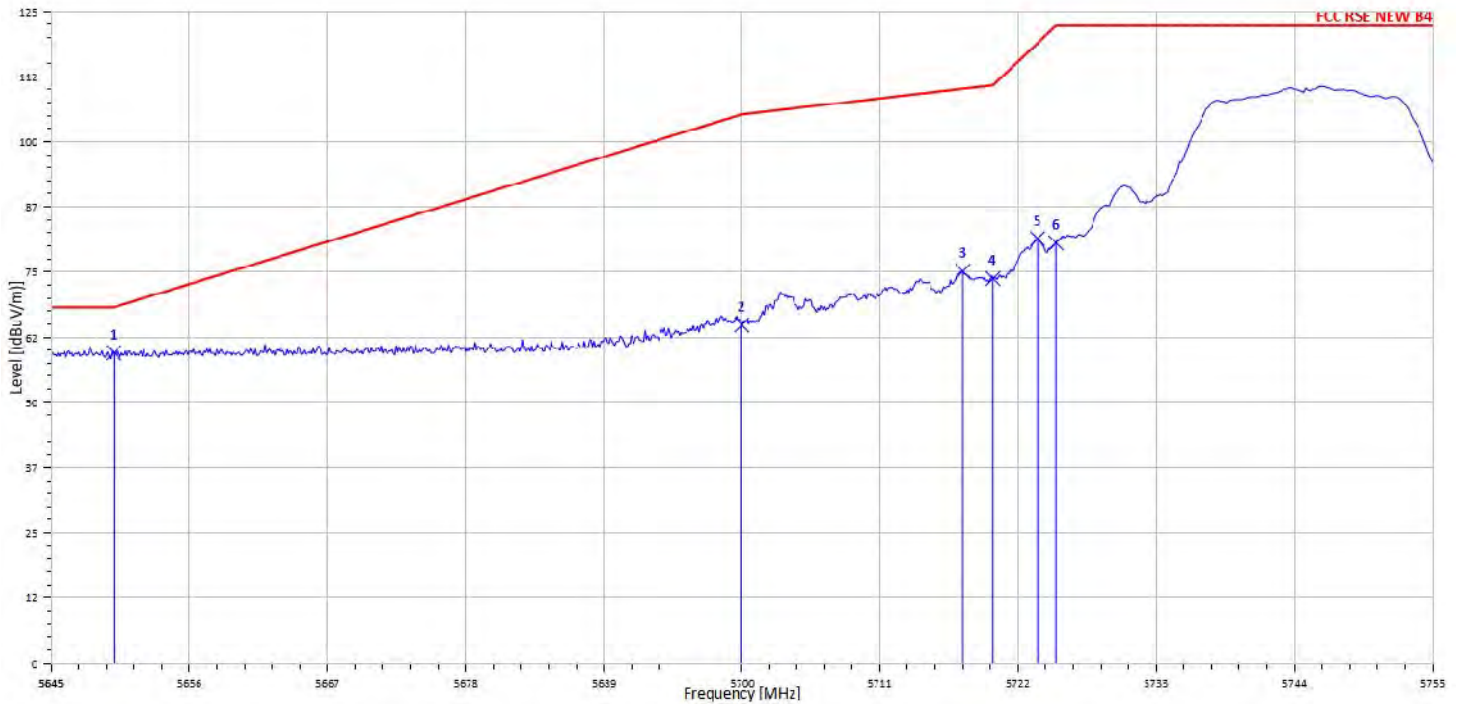
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5650.00	S	Peak	58.50	0.63	59.13	68.23	-9.10
5697.58	S	Peak	61.10	0.56	61.67	103.4393	-41.77
5700.00	S	Peak	59.55	0.56	60.11	105.23	-45.12
5717.16	S	Peak	67.62	0.65	68.26	110.0348	-41.77
5720.00	S	Peak	65.76	0.66	66.42	110.83	-44.41
5723.54	S	Peak	73.65	0.68	74.33	118.9013	-44.57
5725.00	E	Peak	71.28	0.69	71.96	122.23	-50.27

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Operation Mode :	802.11aB4	Test Date :	2017/10/13
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



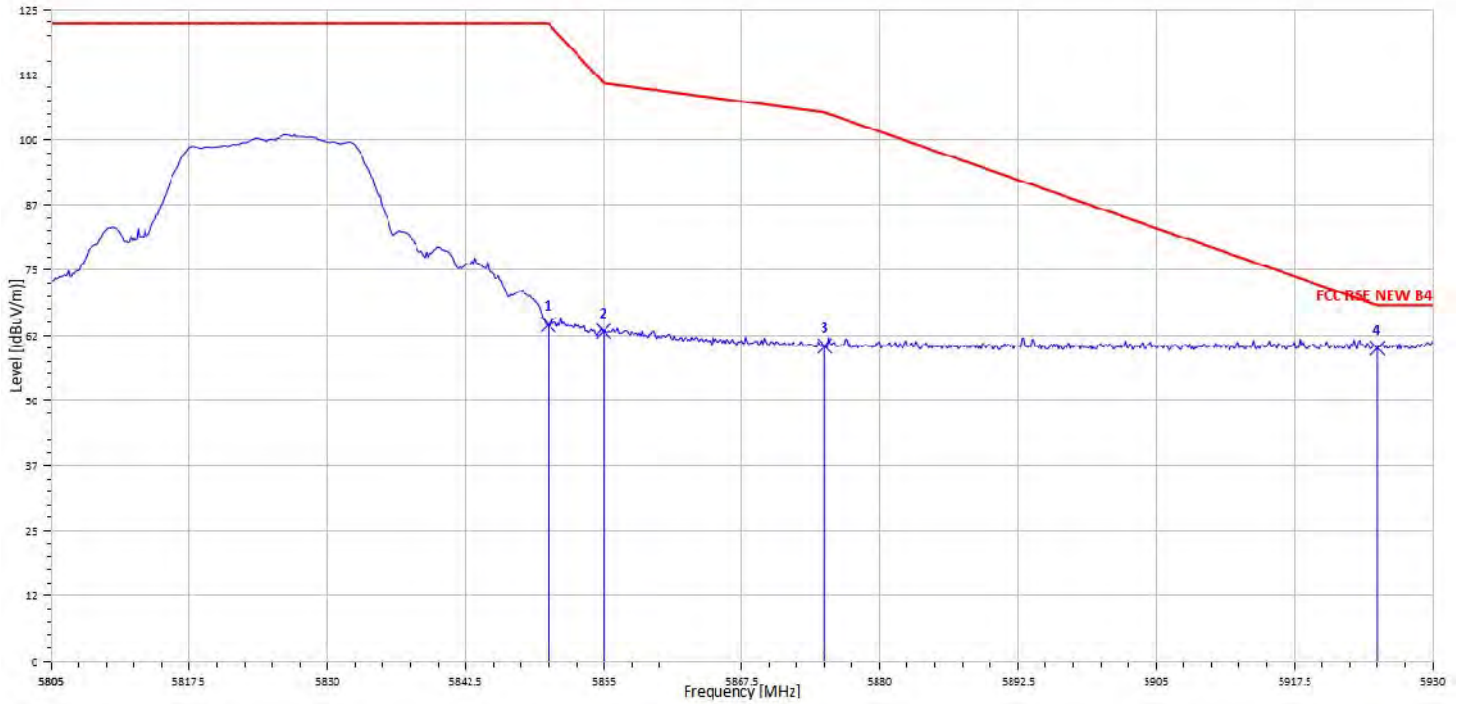
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	S	Peak	58.88	0.63	59.51	68.23	-8.72
5700.00	S	Peak	64.28	0.56	64.84	105.23	-40.39
5717.60	S	Peak	74.49	0.65	75.14	110.158	-35.02
5720.00	S	Peak	73.10	0.66	73.76	110.83	-37.07
5723.54	S	Peak	80.71	0.68	81.38	118.9013	-37.52
5725.00	E	Peak	79.91	0.69	80.60	122.23	-41.63

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Operation Mode :	802.11aB4	Test Date :	2017/10/13
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



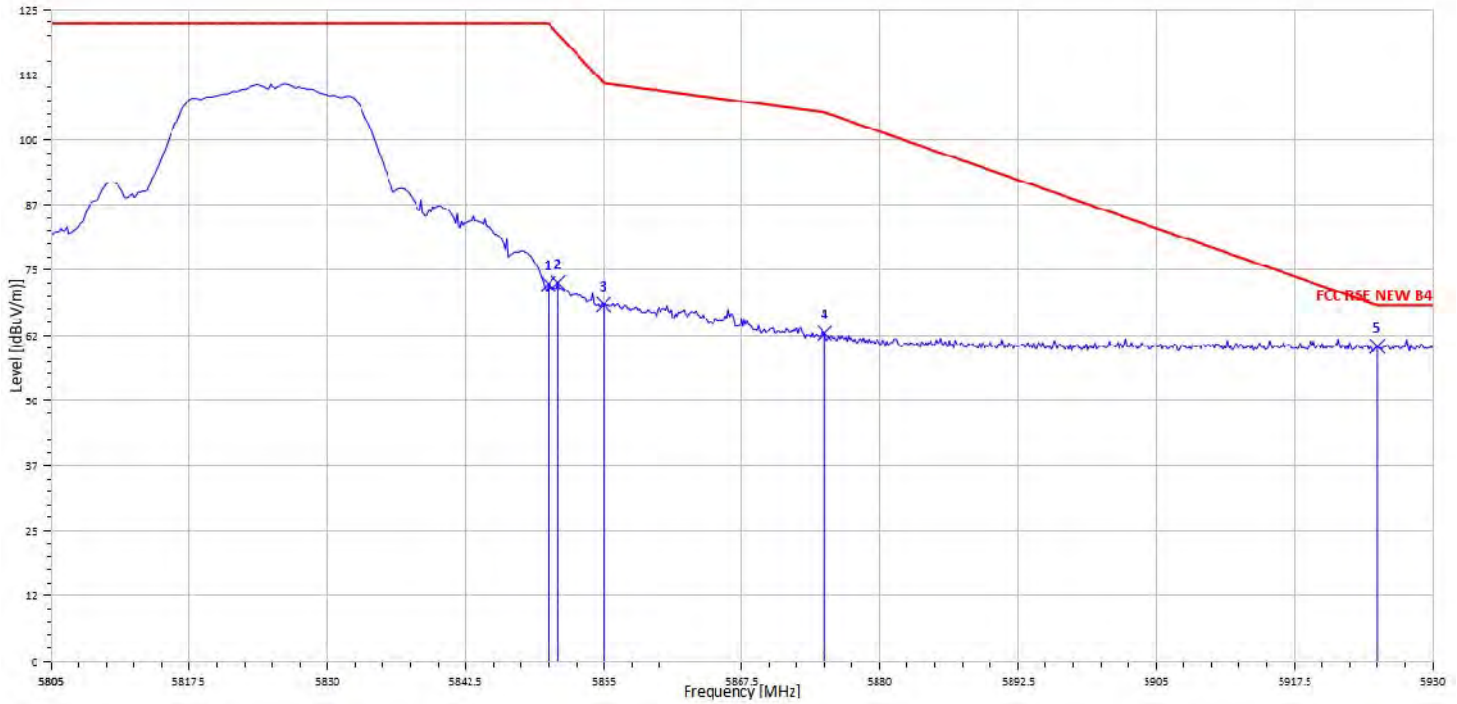
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	63.52	1.01	64.53	122.23	-57.70
5855.00	S	Peak	62.29	1.01	63.29	110.83	-47.54
5875.00	S	Peak	59.45	0.99	60.43	105.23	-44.80
5925.00	S	Peak	58.98	1.04	60.02	68.23	-8.21

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Operation Mode :	802.11aB4	Test Date :	2017/10/13
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	E	Peak	71.35	1.01	72.36	122.23	-49.87
5850.88	S	Peak	71.59	1.01	72.59	120.235	-47.64
5855.00	S	Peak	67.38	1.01	68.39	110.83	-42.44
5875.00	S	Peak	61.91	0.99	62.89	105.23	-42.34
5925.00	S	Peak	59.33	1.04	60.37	68.23	-7.86

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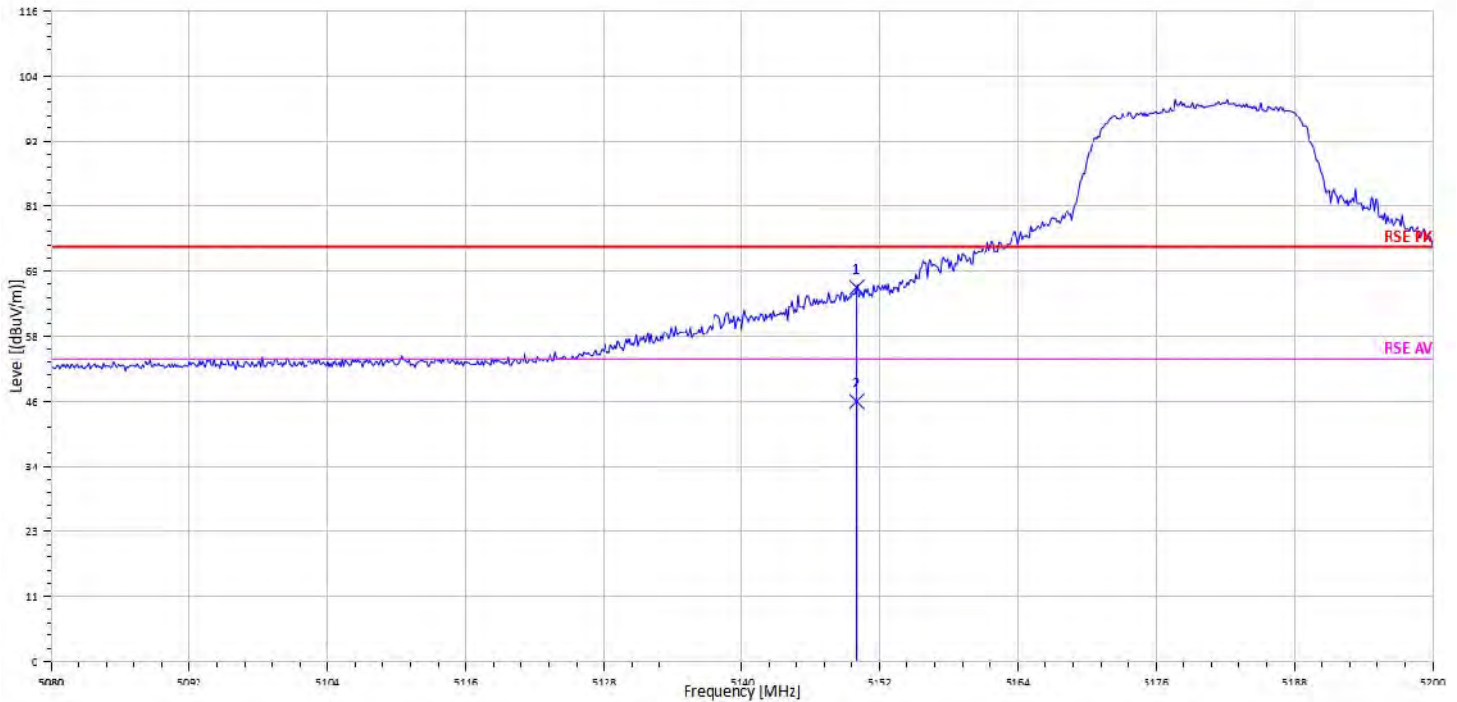
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### 802.11n20 HT mode

Operation Mode :	802.11n20B1	Test Date :	2017/10/6
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



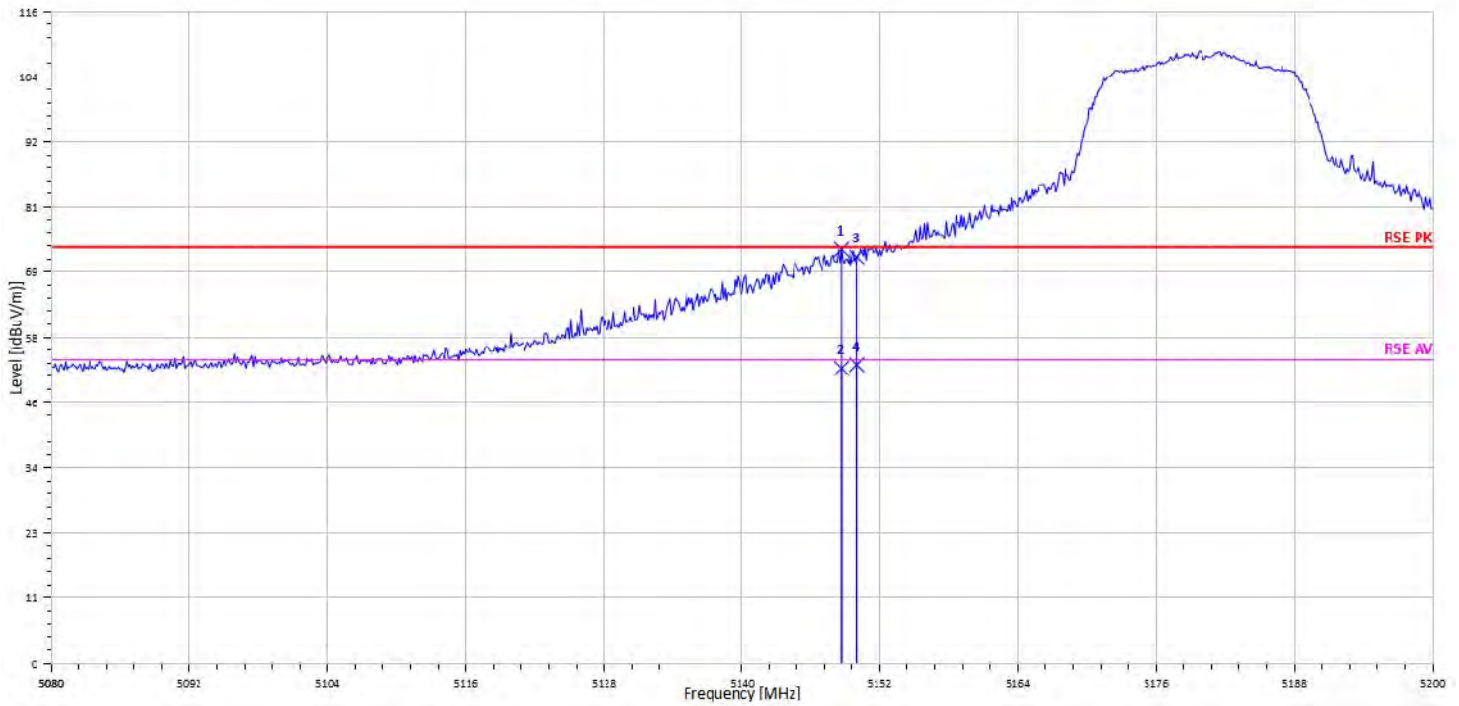
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5150.00	E	Peak	66.83	-0.17	66.66	74	-7.34
5150.00	E	Average	46.55	-0.17	46.38	54	-7.62

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Operation Mode :	802.11n20B1	Test Date :	2017/10/6
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



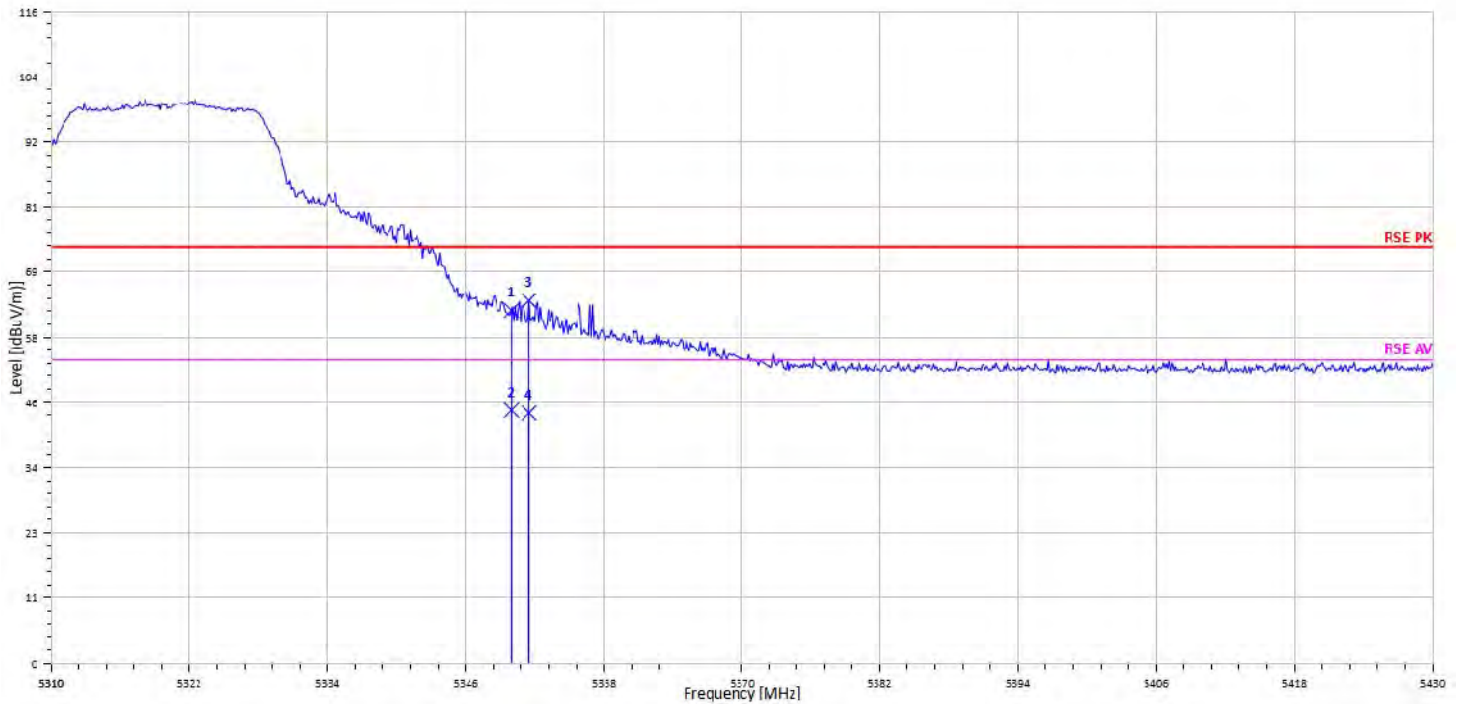
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5148.64	S	Peak	73.78	-0.17	73.61	74	-0.39
5148.64	S	Average	52.64	-0.17	52.47	54	-1.53
5150.00	E	Peak	72.47	-0.17	72.30	74	-1.70
5150.00	E	Average	53.26	-0.17	53.09	54	-0.91

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Operation Mode :	802.11n20B2	Test Date :	2017/10/6
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



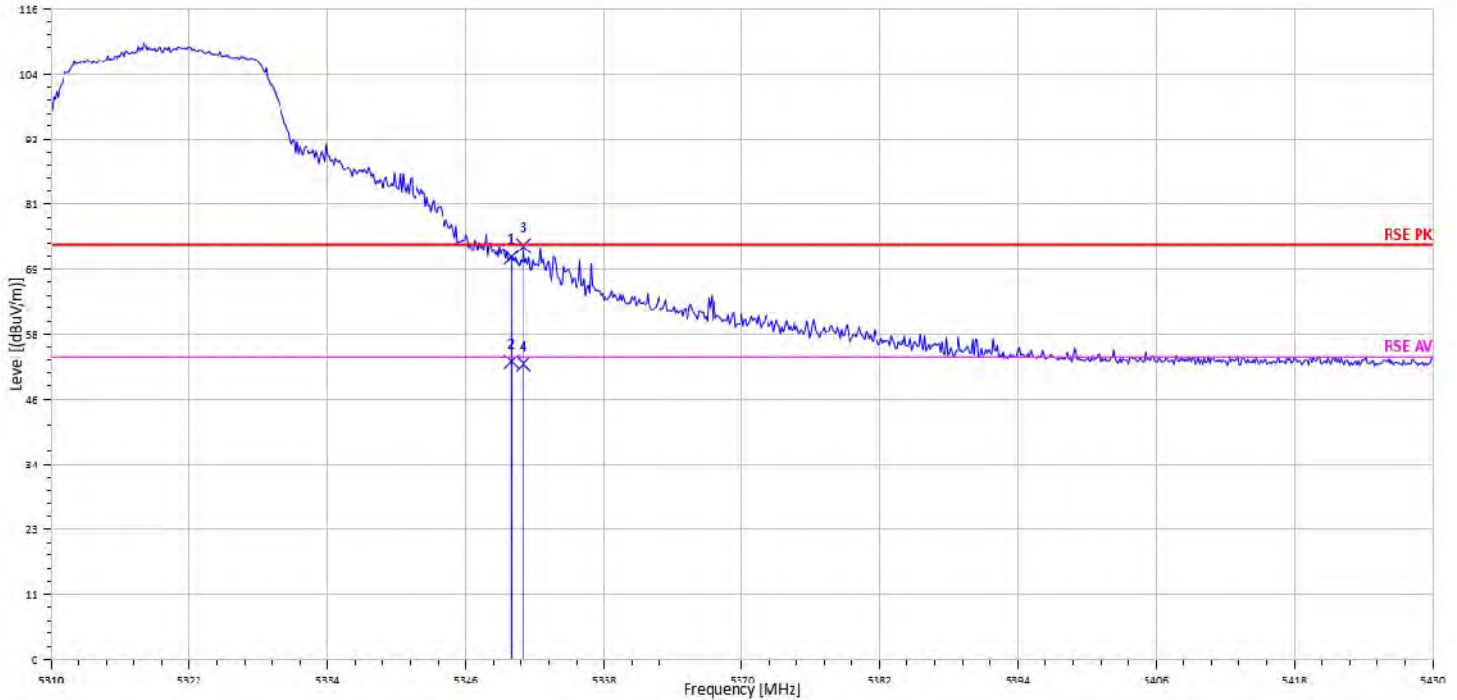
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	62.94	-0.15	62.79	74	-11.21
5350.00	E	Average	45.13	-0.15	44.98	54	-9.02
5351.52	S	Peak	64.66	-0.15	64.51	74	-9.49
5351.52	S	Average	44.66	-0.15	44.51	54	-9.49

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Operation Mode :	802.11n20B2	Test Date :	2017/10/6
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



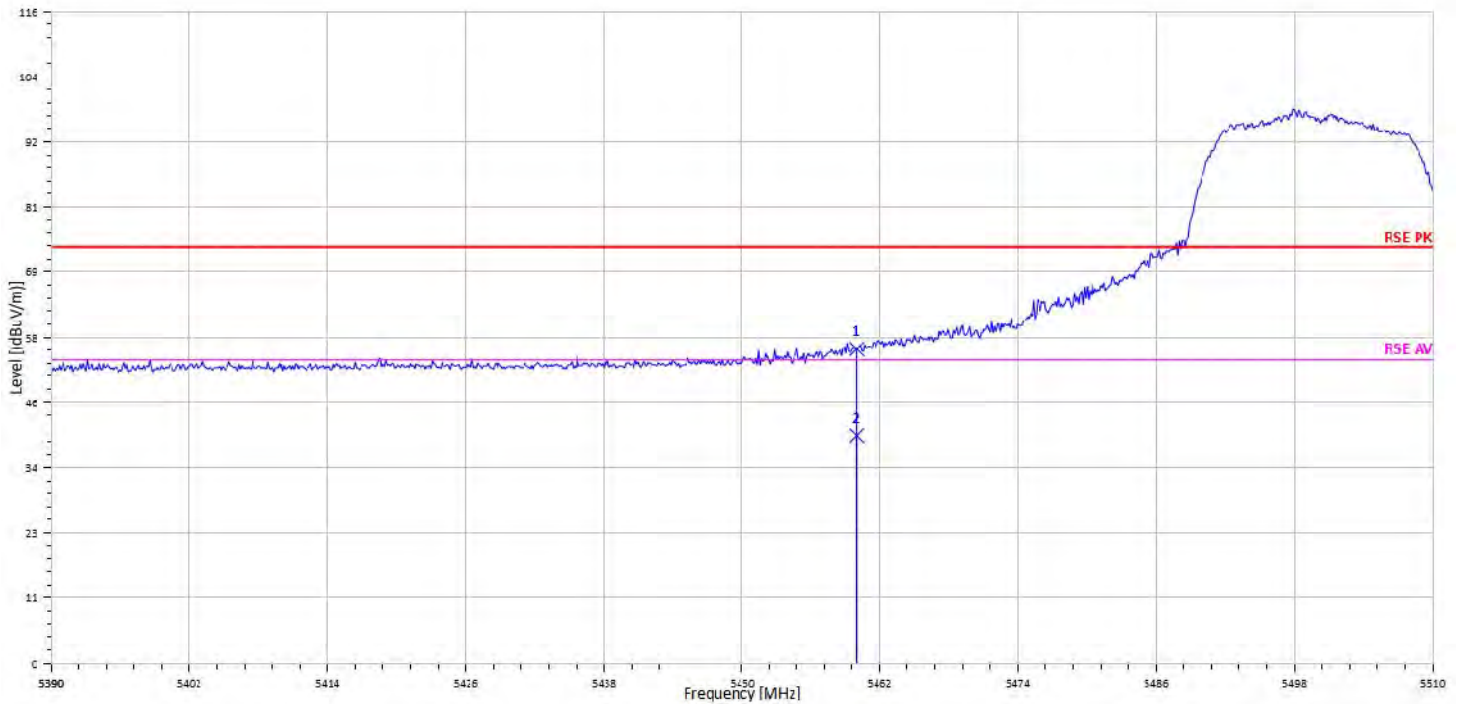
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	E	Peak	71.92	-0.15	71.76	74	-2.24
5350.00	E	Average	53.25	-0.15	53.09	54	-0.91
5351.04	S	Peak	73.88	-0.15	73.73	74	-0.27
5351.04	S	Average	52.81	-0.15	52.66	54	-1.34

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Operation Mode :	802.11n20B3	Test Date :	2017/10/6
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.8deg_C/59RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5460.00	E	Peak	55.82	0.06	55.88	74	-18.12
5460.00	E	Average	40.34	0.06	40.40	54	-13.60

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