

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name: HUAWEI MateBook
Brand Name: HUAWEI
Model No.: WT-W09, WT-W19
Model Difference: N/A
FCC ID: QISWT-WX9
IC: 6369A-WTWX9
Report No.: E2/2017/20017
Issue Date: Mar. 08, 2017
FCC Rule Part: §15.407
IC Rule Part: RSS-247 issue 2 Feb. 2017
Prepared for: HUAWEI TECHNOLOGIES CO., LTD.
 Administration Building, Headquarters of
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 P.R.C
Prepared by: SGS Taiwan Ltd.
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VERIFICATION OF COMPLIANCE

Applicant: HUAWEI TECHNOLOGIES CO., LTD.
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Product Name: HUAWEI MateBook

Brand Name: HUAWEI

Model No.: WT-W09, WT-W19

Model Difference: N/A

FCC ID: QISWT-WX9

IC: 6369A-WTWX9

File Number: E2/2017/20017

Date of Test: Feb. 18, 2017 ~ Feb. 18, 2017

Date of EUT Received: Feb. 02, 2017

We hereby certify that:

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

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

Test By:

Pony Chen

Date:

Mar. 08, 2017

Pony Chen / Engineer

Prepared By:

Allen Tsai

Date:

Mar. 08, 2017

Allen Tsai / Sr. Engineer

Approved By:

Jim Chang

Date:

Mar. 08, 2017

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
E2/2017/20017	Rev.00	Initial creation of document	Mar. 08, 2017

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1 GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	HUAWEI MateBook		
Brand Name:	HUAWEI		
Model No.:	WT-W09, WT-W19		
Model Difference:	N/A		
Product SW/HW version:	19.45/ V1.1		
Radio SW/HW version:	19.0 / 19.0		
Test SW Version:	N/A		
RF power setting in TEST SW:	DRTU 1.9.1-04155		
Power Supply:	7.6Vdc from Rechargeable Li-ion Battery		
	Battery:	1. Model No.: HB54A9Q3ECW Supplier: Sunwoda Electronic Co., Ltd. 2. Model No.: HB54A9Q3ECW Supplier: Huizhou Desay Battery Co., Ltd	
	Adapter:	Model No.: HW-200200UP0 Supplier: HUAWEI	

FCC WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Avg. Power (dBm)	Modulation Technology
11a_20	5150~5250	4	15.99	OFDM
	5250~5350	4	15.99	
	5470~5725	12	15.98	
	5725-5850	5	15.92	
11n_HT / ac_VHT 20M	5150~5250	4	HT: 15.99	OFDM
	5250~5350	4	HT: 15.98	
	5470~5725	12	HT: 15.98	
	5725-5850	5	HT: 15.95	
11n_HT / ac_VHT 40M	5150~5250	2	HT: 15.99	OFDM
	5250~5350	2	HT: 15.99	
	5470~5725	6	HT: 15.97	
	5725-5850	2	HT: 15.96	
11ac VHT80M	5150~5250	1	11.98	OFDM
	5250~5350	1	11.48	
	5470~5725	2	15.96	

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	5725-5850	1	15.81	
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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	12.49	OFDM
	5260~5320	4	Avg.	15.99	
	5500~5580	5	Avg.	15.98	
	5700~5700	1	Avg.	14.49	
	5745~5825	5	Avg.	15.92	
11n_HT / ac_VHT 20M	5180~5240	4	EIRP	VHT: 15.42	OFDM
	5260~5320	4	Avg.	HT: 15.98	
	5500~5580	5	Avg.	HT: 15.95	
	5700~5700	1	Avg.	HT: 15.98	
	5745~5825	5	Avg.	HT: 15.95	
11n_HT / ac_VHT 40M	5190~5230	2	EIRP	VHT: 15.46	OFDM
	5270~5310	2	Avg.	HT: 15.99	
	5470~5600	2	Avg.	HT: 15.97	
	5650~5725	1	Avg.	HT: 15.97	
	5755~5795	2	Avg.	HT: 15.96	
11ac VHT80M	5210~5210	1	EIRP	VHT: 10.22	OFDM
	5290~5290	1	Avg.	HT: 11.48	
	5530~5530	1	Avg.	HT: 15.92	
	5775~5775	1	Avg.	HT: 15.81	
Modulation type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac only				
Transition Rate:	802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 144.4Mbps 802.11 n_40MHz: 13.5 – 300Mbps 802.11 ac_20MHz: 6.5 –144.4Mbps 802.11 ac_40MHz: 13.5 –300Mbps 802.11 ac_80MHz: 29.3 – 650Mbps				

Antenna Designation

Antenna Type	Freq. (MHz)	Main Peak Antenna Gain (dBi)	AUX Peak Antenna Gain (dBi)
PIFA	5150~5250	-3.70	-3.50
	5250~5350	-3.60	-3.40
	5470~5725	-3.70	-3.30
	5725~5850	-4.10	-5.10

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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.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803. (TAF code 0513)

FCC Registration Numbers are: 735305

Canada Registration Number: 4620A-5

1.4 Special Accessories

There are no special accessories used while test was conducted.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Radiated Emissions

The EUT is a placed on as turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plan. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.

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2.4 Measurement Results Explanation Example

For all conducted test items:

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

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor. Following shows an offset computation example with cable loss 1.7dB, and 10dB attenuator.
offset = RF cable loss (dB)+ attenuation factor(dB)=11.7(dB)

2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission Configuration



Fig. 2-2 Conducted Emission (AC Power Line) Configuration

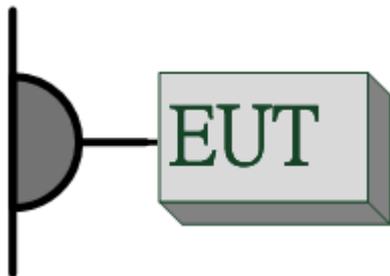


Fig.2-3 Conducted Emission (Antenna Port) Configuration

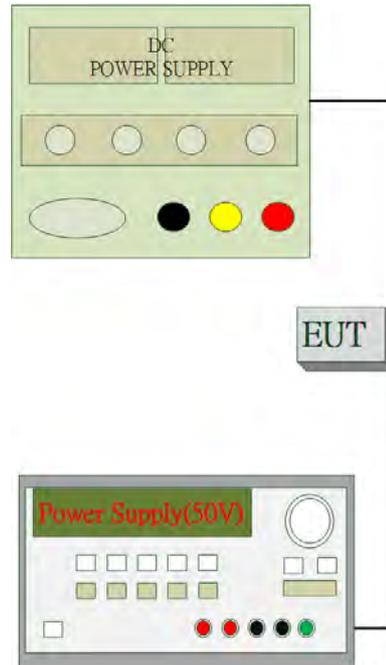


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	Bluetooth Test Software	N/A	N/A	N/A	N/A	N/A
2	DC Power Supply	Agilent	E3640A	MY53140006	N/A	Un-Shielded
3.	DC Power Supply	Agilent	E3634A	MY53180030	N/A	Un-Shielded

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3 SUMMARY OF TEST RESULT

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

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4 DESCRIPTION OF TEST MODES

4.1 Operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

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

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

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
42	5210 MHz

Operated band in 5250 MHz ~5350 MHz:

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

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

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
58	5290 MHz

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Operated band in 5470 MHz ~5725 MHz:

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz	144	5720 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	142	5710 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 802.11ac yields the highest reading that generates the highest emission.
5. The given UE is pre-scanned among SISO Main, SISO Aux and MIMO modes, and MIMO mode yields the highest reading that generates the highest emission. Therefore, 802.11ac+MIMO as the mode of radiated test configuration is chosen to carry out the relevantly mandatory test items.

RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO
802.11a	5500~5720	100 to 140	100,116,140	OFDM	6	MIMO
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS8	MIMO
RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MIMO
802.11ac_VHT20				OFDM	MCS8	MIMO
802.11ac_VHT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MIMO
802.11ac_VHT20				OFDM	MCS8	MIMO
802.11ac_VHT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO

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MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5500~5720	100 to 144	100,116,140	OFDM	6	MIMO
802.11ac_VHT20				OFDM	MCS8	MIMO
802.11ac_VHT40	5510~5710	102 to 142	102,110,134	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5610	106 to 122	106,122	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MIMO
802.11ac_VHT20				OFDM	MCS8	MIMO
802.11ac_VHT40	5755~5795	151 to 159	151,159	OFDM	MCS8	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS8	MIMO

Note:

The field strength of radiation emission was measured as EUT lie down position (E2 mode).

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	AUX
802.11ac_HT20 802.11ac_VHT20				OFDM	MCS0	AUX
802.11ac_HT40 802.11ac_VHT40	5190~5230	38 to 46	38,46	OFDM	MCS0	AUX
802.11ac_VHT80	5210	42	42	OFDM	MCS0	AUX
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	AUX
802.11ac_HT20 802.11ac_VHT20				OFDM	MCS0	AUX
802.11ac_HT40 802.11ac_VHT40	5270~5310	54 to 62	54,62	OFDM	MCS0	AUX
802.11ac_VHT80	5290	58	58	OFDM	MCS0	AUX
802.11a	5500~5720	100 to 144	100,116,140,144	OFDM	6	AUX
802.11ac_HT20 802.11ac_VHT20				OFDM	MCS0	AUX
802.11ac_HT40 802.11ac_VHT40	5510~5710	102 to 142	102,110,134,142	OFDM	MCS0	AUX
802.11ac_VHT80	5530~5610	106 to 122	106,122	OFDM	MCS0	AUX
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	AUX
802.11ac_HT20 802.11ac_VHT20				OFDM	MCS0	AUX
802.11ac_HT40 802.11ac_VHT40	5755~5795	151 to 159	151,159	OFDM	MCS0	AUX
802.11ac_VHT80	5775	155	155	OFDM	MCS0	AUX

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
26dB & 6dB Emission Bandwidth	+/- 123.36 Hz
The Maximum Output Power Measurement	+/- 0.96 dB
Peak Power Spectral Density Measurement	+/- 1.67 dB
Frequency Stability	+/- 123.36 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission:

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

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

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

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6 CONDUCTED EMISSION TEST

6.1 Standard Applicable

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

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

Note

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

6.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI 7	100950	12/08/2016	12/07/2017
Coaxial Cables	N/A	N30N30-1042-1 50cm	N/A	08/30/2016	08/29/2017
LISN	Schwarzbeck	NSLK 8127	8127-648	03/11/2016	03/10/2017
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

6.3 EUT Setup

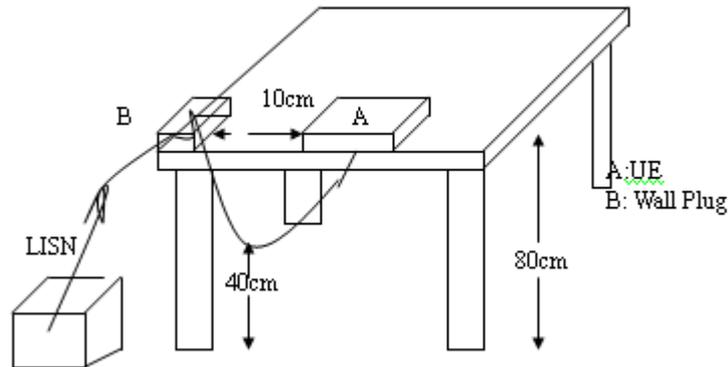
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz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

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6.4 Test SET-UP



6.5 Measurement Procedure

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

6.6 Measurement Result

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

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

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7 DUTY CYCLE TEST SIGNAL

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

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

Formula:

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

Measurement Procedure:

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

Duty Cycle:

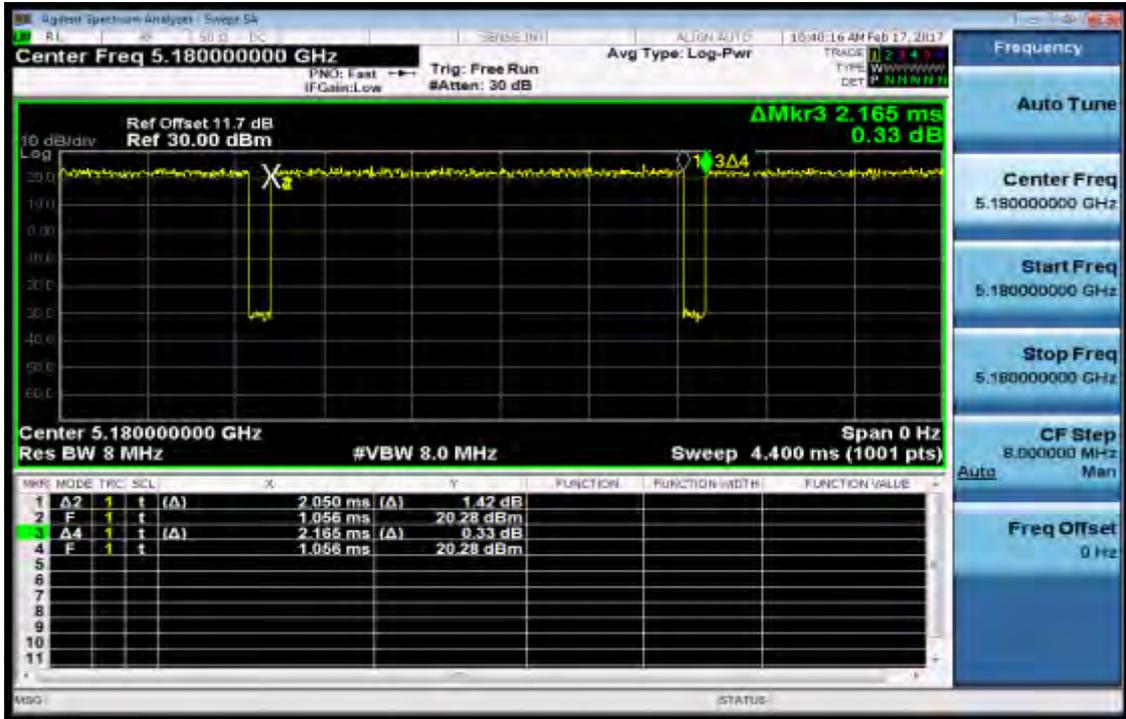
Mode	Duty Cycle (%)	Duty Factor (dB) =10*log (1/Duty Cycle)
802.11a	94.72	0.24
802.11n_20	95.50	0.20
802.11ac_20	95.51	0.20
802.11n_40	84.38	0.74
802.11ac_40	84.41	0.74
802.11ac_80	84.14	0.75

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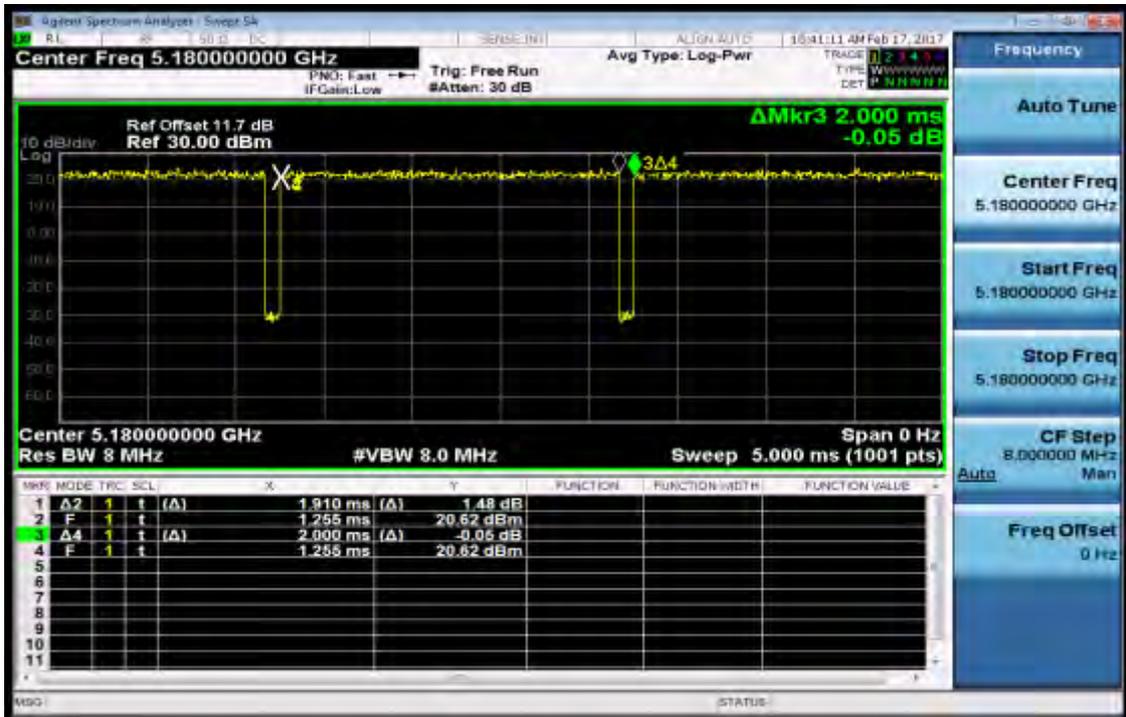
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DUTY CYCLE TEST SIGNAL Measurement Result 802.11a



802.11n HT20



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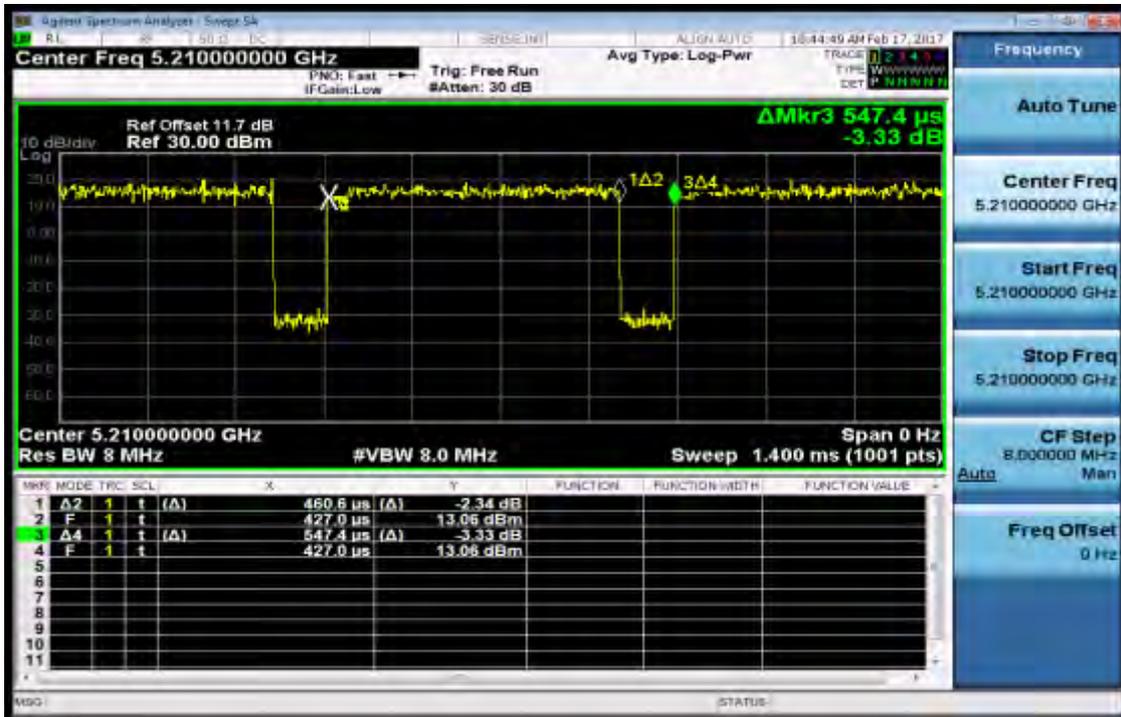
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802.11n HT 40



802.11 ac VHT 80



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8 26DB & 6DB EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

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

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

8.2 Measurement Procedure

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

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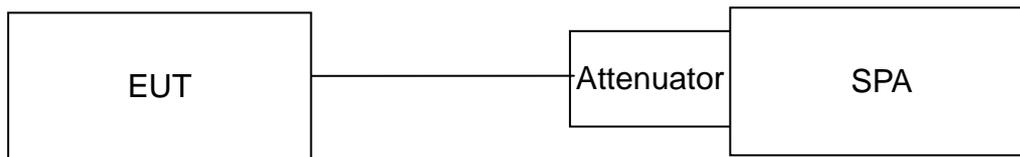
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8.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
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	05/04/2016	05/03/2017
DC Power Supply	Agilent	E3634A	MY53180030	05/17/2016	05/16/2017

8.4 Test Set-up



8.5 Measurement Result

26dB and 6dB Bandwidth

802.11a_Main			802.11a_Aux1		
Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.12	13.247	5180	21.63	13.351
5220	21.48	13.320	5220	21.22	13.267
5240	21.64	13.353	5240	21.70	13.365
5260	21.69	13.363	5260	22.19	13.462
5300	22.54	13.530	5300	22.94	13.606
5320	22.78	13.576	5320	22.07	13.438
5500	22.28	13.479	5500	22.07	13.438
5580	22.78	13.576	5580	22.51	13.524
5700	21.75	13.375	5700	22.40	13.502

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802.11a_Main

802.11a_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.29	11.844	5745	12.28	10.892
5785	14.46	11.602	5785	15.97	12.033
5825	13.78	11.392	5825	13.20	11.206

802.11n_HT20_Main

802.11n_HT20_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	22.71	13.562	5180	22.34	13.491
5220	22.23	13.469	5220	21.93	13.410
5240	22.54	13.530	5240	22.68	13.556
5260	21.68	13.361	5260	21.95	13.414
5300	21.76	13.377	5300	22.82	13.583
5320	21.55	13.334	5320	22.56	13.533
5500	23.03	13.623	5500	22.72	13.564
5580	23.13	13.642	5580	23.72	13.751
5700	22.66	13.553	5700	23.15	13.646

802.11n_HT20_Main

802.11n_HT20_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.08	11.784	5745	12.00	10.792
5785	15.15	11.804	5785	15.10	11.790
5825	14.68	11.667	5825	15.05	11.775

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802.11n_HT40_Main

802.11n_HT40_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	43.13	16.348	5190	43.39	16.374
5230	43.86	16.421	5230	43.17	16.352
5270	43.18	16.353	5270	43.72	16.407
5310	43.65	16.400	5310	44.36	16.470
5510	43.88	16.423	5510	44.32	16.466
5550	44.33	16.467	5550	45.48	16.578
5670	43.84	16.419	5670	44.49	16.483

802.11n_HT40_Main

802.11n_HT40_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.02	15.443	5755	35.15	15.459
5795	35.10	15.453	5795	31.40	14.969

802.11ac_VHT80_Main

802.11ac_VHT80_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	83.99	19.242	5210	84.09	19.247
5290	83.93	19.239	5290	83.40	19.212
5530	83.67	19.226	5530	84.95	19.292
5610	82.90	19.186	5610	83.01	19.191

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802.11ac_VHT80_Main

802.11ac_VHT80_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	72.54	18.606	5775	70.03	18.453

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99% Bandwidth
802.11a_Main
802.11a_Aux1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.427	12.156	5180	16.362	12.138
5220	16.574	12.194	5220	16.404	12.149
5240	16.399	12.148	5240	16.367	12.140
5260	16.360	12.138	5260	16.456	12.163
5300	16.379	12.143	5300	16.443	12.160
5320	16.281	12.117	5320	16.298	12.121
5500	16.240	12.106	5500	16.270	12.114
5580	16.410	12.151	5580	16.328	12.129
5700	16.463	12.165	5700	16.438	12.158

802.11a_Main
802.11a_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.37	12.140	5745	16.40	12.149
5785	16.36	12.137	5785	16.42	12.153
5825	16.42	12.154	5825	16.37	12.140

802.11n_HT20_Main
802.11n_HT20_Aux1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	17.640	12.465	5180	17.681	12.475
5220	17.649	12.467	5220	17.676	12.474
5240	17.664	12.471	5240	17.725	12.486
5260	17.675	12.474	5260	17.495	12.429
5300	17.553	12.444	5300	17.576	12.449
5320	17.671	12.473	5320	17.600	12.455
5500	17.666	12.471	5500	17.701	12.480
5580	17.714	12.483	5580	17.589	12.452
5700	17.698	12.479	5700	15.864	12.004

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802.11n_HT20_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.58	12.449	5745	17.68	12.474
5785	17.67	12.471	5785	17.62	12.461
5825	17.61	12.457	5825	17.66	12.471

802.11n_HT20_Aux1

802.11n_HT40_Main

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	36.161	15.582	5190	36.114	15.577
5230	36.065	15.571	5230	36.099	15.575
5270	36.136	15.579	5270	36.116	15.577
5310	36.211	15.588	5310	36.001	15.563
5510	36.173	15.584	5510	36.215	15.589
5550	36.213	15.589	5550	36.099	15.575
5670	36.234	15.591	5670	36.010	15.564

802.11n_HT40_Aux1

802.11ac_VHT80_Main

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	75.269	18.766	5210	73.328	18.653
5290	75.257	18.765	5290	75.697	18.791
5530	75.444	18.776	5530	74.177	18.703

802.11ac_VHT80_Aux1

802.11ac_VHT80_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	74.73	18.735	5775	75.41	18.774

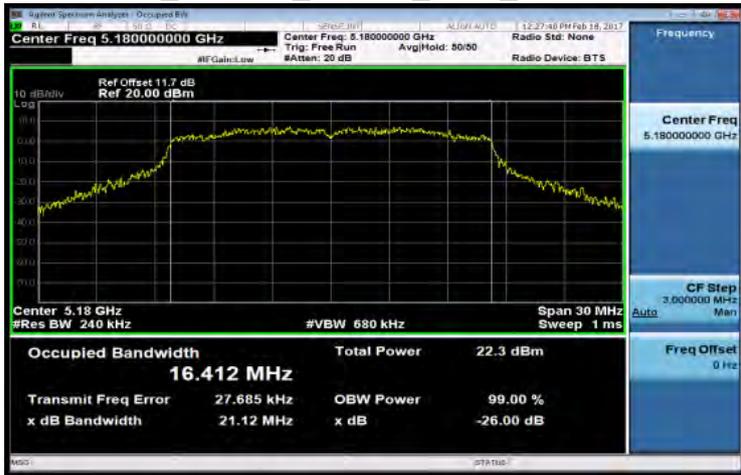
802.11ac_VHT80_Aux1

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FCC_802.11a_20MHz_Main_5180MHz



FCC_802.11a_20MHz_Main_5260MHz



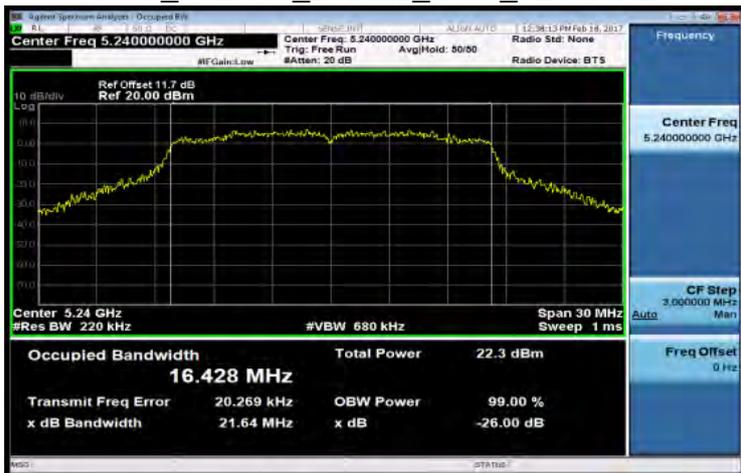
FCC_802.11a_20MHz_Main_5220MHz



FCC_802.11a_20MHz_Main_5300MHz



FCC_802.11a_20MHz_Main_5240MHz



FCC_802.11a_20MHz_Main_5320MHz



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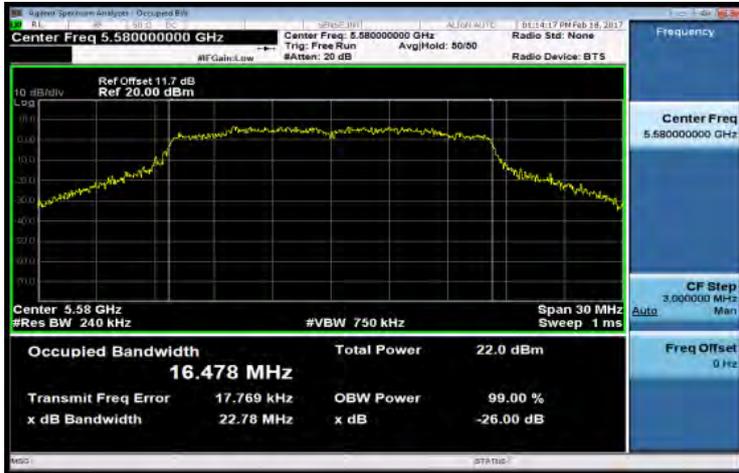
FCC_802.11a_20MHz_Main_5500MHz



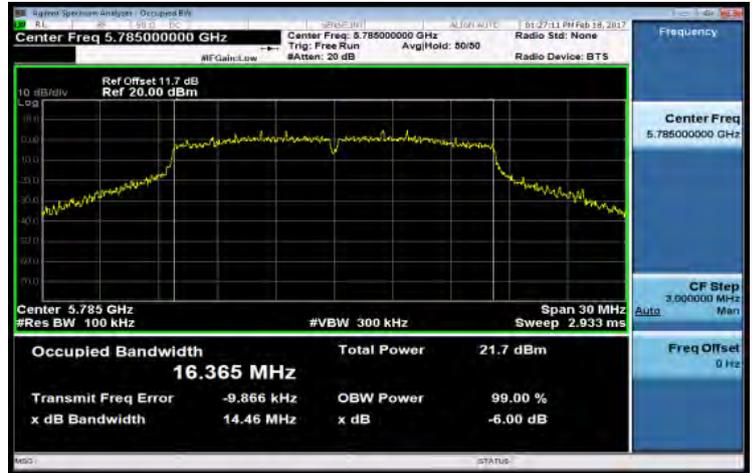
FCC_802.11a_20MHz_Main_5745MHz



FCC_802.11a_20MHz_Main_5580MHz



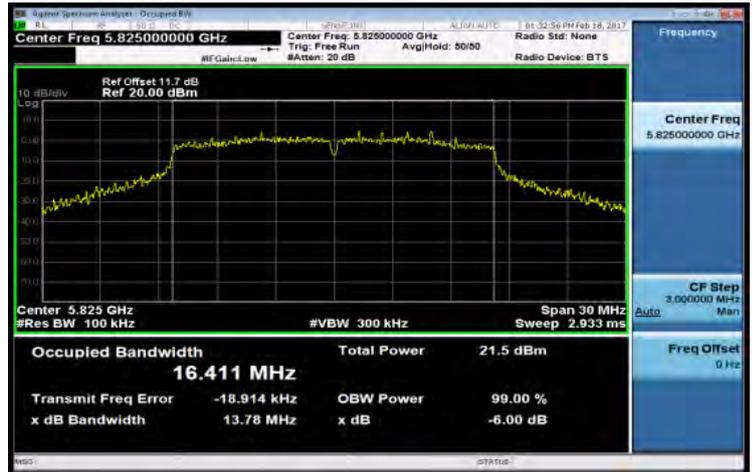
FCC_802.11a_20MHz_Main_5785MHz



FCC_802.11a_20MHz_Main_5700MHz



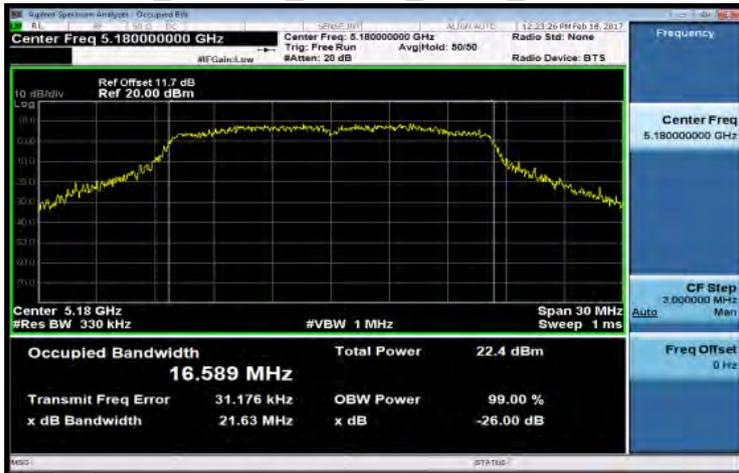
FCC_802.11a_20MHz_Main_5825MHz



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FCC_802.11a_20MHz_AUX1_5180MHz



FCC_802.11a_20MHz_AUX1_5260MHz



FCC_802.11a_20MHz_AUX1_5220MHz



FCC_802.11a_20MHz_AUX1_5300MHz



FCC_802.11a_20MHz_AUX1_5240MHz



FCC_802.11a_20MHz_AUX1_5320MHz

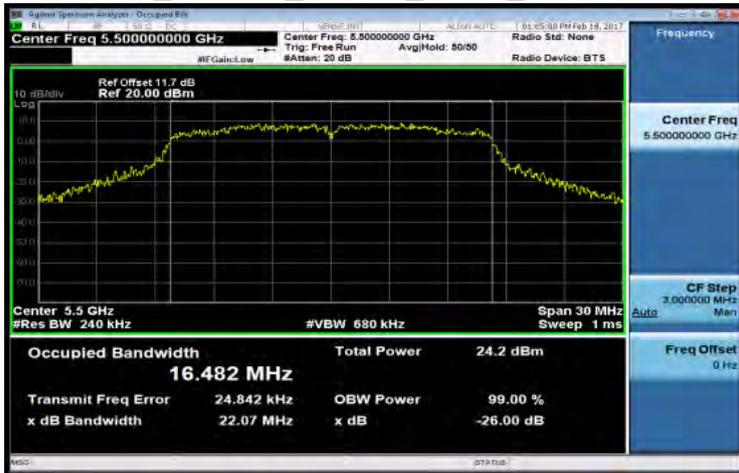


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FCC_802.11a_20MHz_AUX1_5500MHz



FCC_802.11a_20MHz_AUX1_5745MHz



FCC_802.11a_20MHz_AUX1_5580MHz



FCC_802.11a_20MHz_AUX1_5785MHz



FCC_802.11a_20MHz_AUX1_5700MHz



FCC_802.11a_20MHz_AUX1_5825MHz

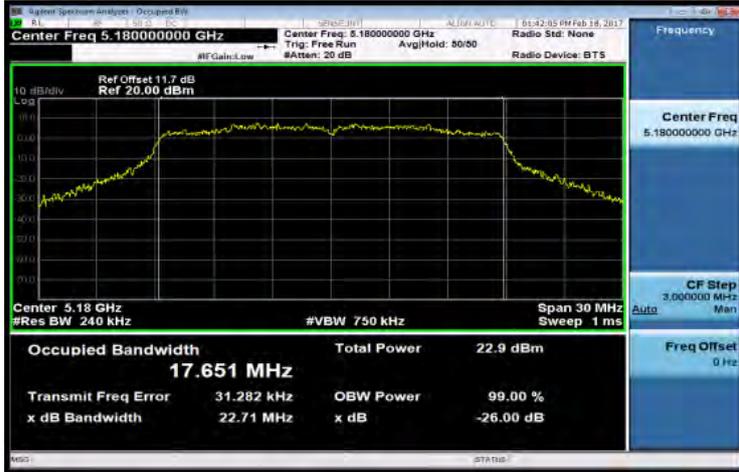


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FCC_802.11n_20MHz_Main_5180MHz



FCC_802.11n_20MHz_Main_5260MHz



FCC_802.11n_20MHz_Main_5220MHz



FCC_802.11n_20MHz_Main_5300MHz



FCC_802.11n_20MHz_Main_5240MHz



FCC_802.11n_20MHz_Main_5320MHz

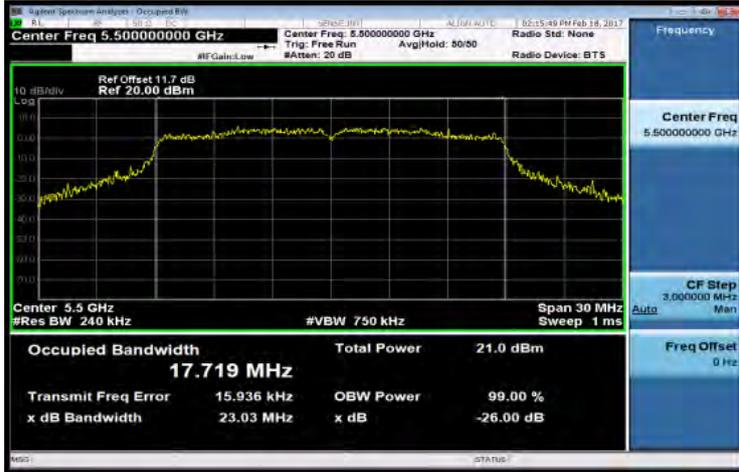


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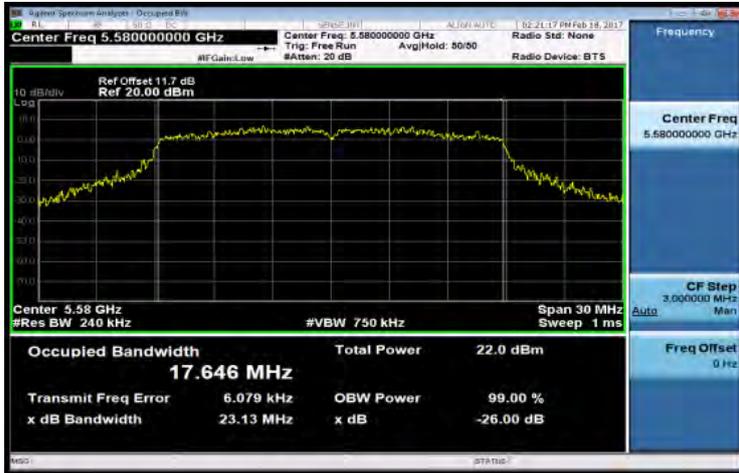
FCC_802.11n_20MHz_Main_5500MHz



FCC_802.11n_20MHz_Main_5745MHz



FCC_802.11n_20MHz_Main_5580MHz



FCC_802.11n_20MHz_Main_5785MHz



FCC_802.11n_20MHz_Main_5700MHz



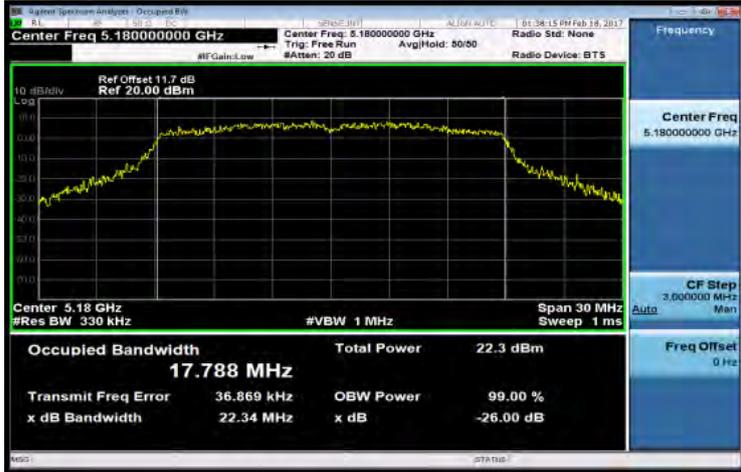
FCC_802.11n_20MHz_Main_5825MHz



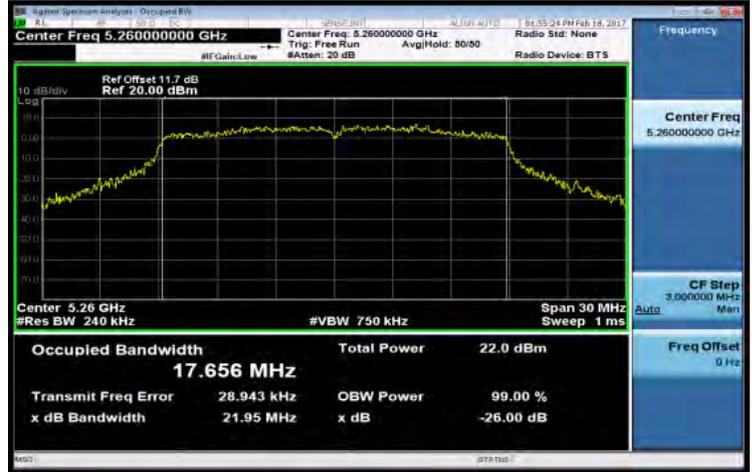
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FCC_802.11n_20MHz_AUX1_5180MHz



FCC_802.11n_20MHz_AUX1_5260MHz



FCC_802.11n_20MHz_AUX1_5220MHz



FCC_802.11n_20MHz_AUX1_5300MHz



FCC_802.11n_20MHz_AUX1_5240MHz



FCC_802.11n_20MHz_AUX1_5320MHz

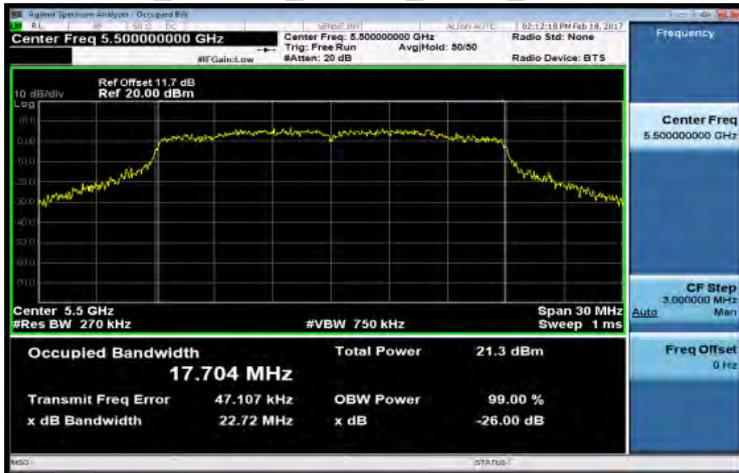


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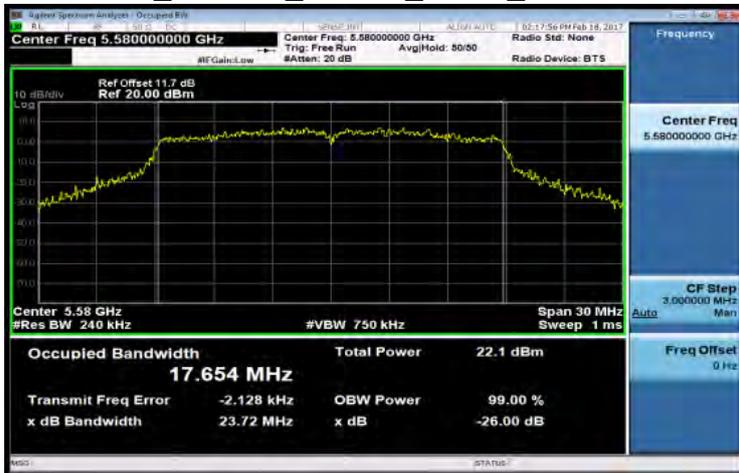
FCC_802.11n_20MHz_AUX1_5500MHz



FCC_802.11n_20MHz_AUX1_5745MHz



FCC_802.11n_20MHz_AUX1_5580MHz



FCC_802.11n_20MHz_AUX1_5785MHz



FCC_802.11n_20MHz_AUX1_5700MHz



FCC_802.11n_20MHz_AUX1_5825MHz

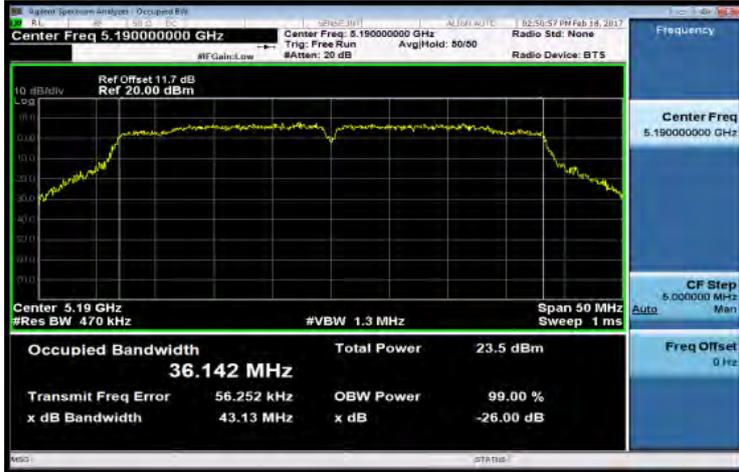


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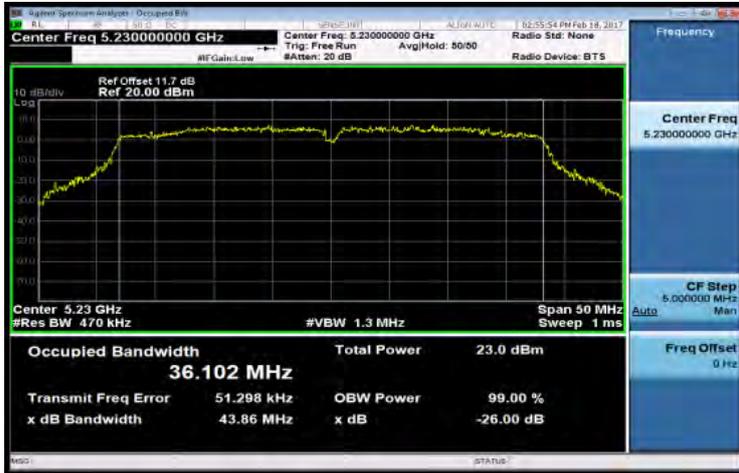
FCC_802.11n_40MHz_Main_5190MHz



FCC_802.11n_40MHz_Main_5310MHz



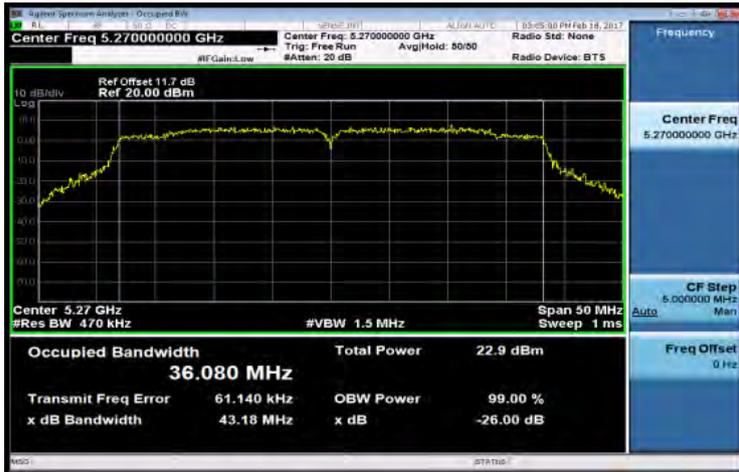
FCC_802.11n_40MHz_Main_5230MHz



FCC_802.11n_40MHz_Main_5510MHz



FCC_802.11n_40MHz_Main_5270MHz



FCC_802.11n_40MHz_Main_5550MHz



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FCC_802.11n_40MHz_Main_5670MHz



FCC_802.11n_40MHz_AUX1_5190MHz



FCC_802.11n_40MHz_Main_5755MHz



FCC_802.11n_40MHz_AUX1_5230MHz



FCC_802.11n_40MHz_Main_5795MHz



FCC_802.11n_40MHz_AUX1_5270MHz



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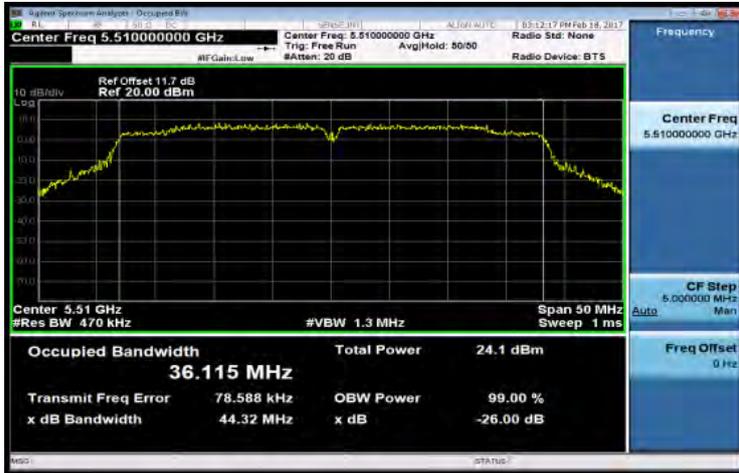
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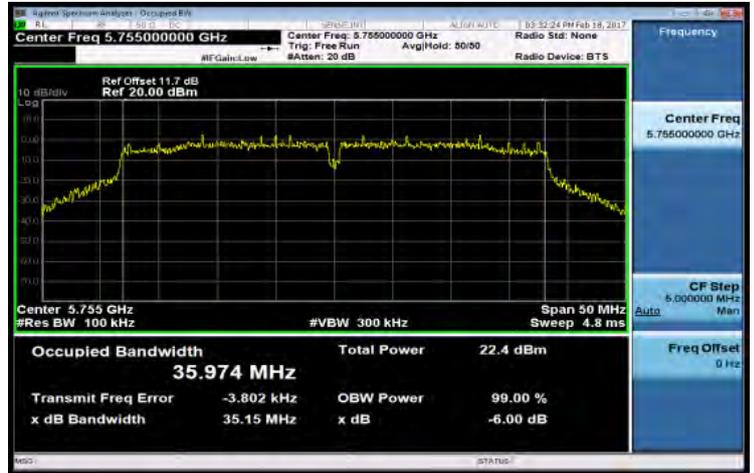
FCC_802.11n_40MHz_AUX1_5670MHz



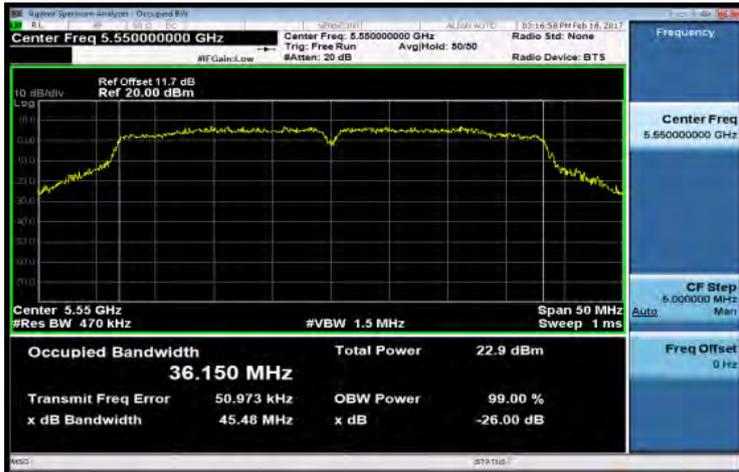
FCC_802.11n_40MHz_AUX1_5510MHz



FCC_802.11n_40MHz_AUX1_5755MHz



FCC_802.11n_40MHz_AUX1_5550MHz



FCC_802.11n_40MHz_AUX1_5795MHz



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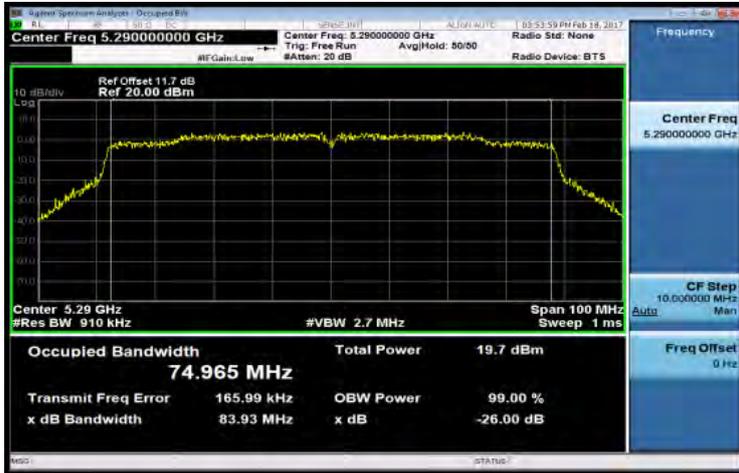
FCC_802.11ac_80MHz_Main_5210MHz



FCC_802.11ac_80MHz_Main_5610MHz



FCC_802.11ac_80MHz_Main_5290MHz



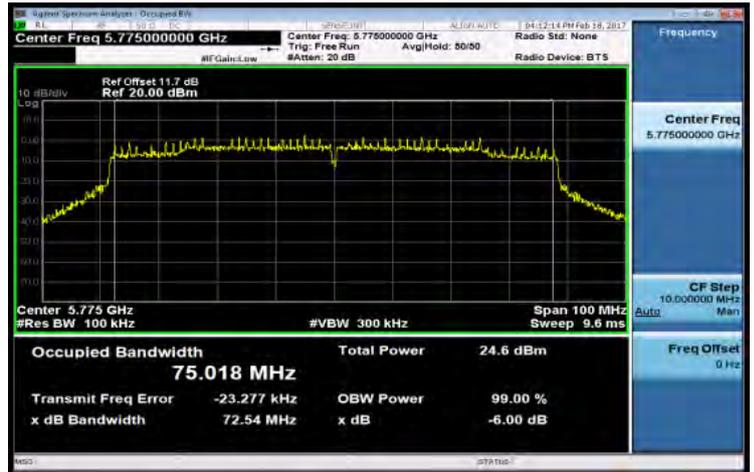
FCC_802.11ac_80MHz_Main_5690MHz



FCC_802.11ac_80MHz_Main_5530MHz



FCC_802.11ac_80MHz_Main_5775MHz



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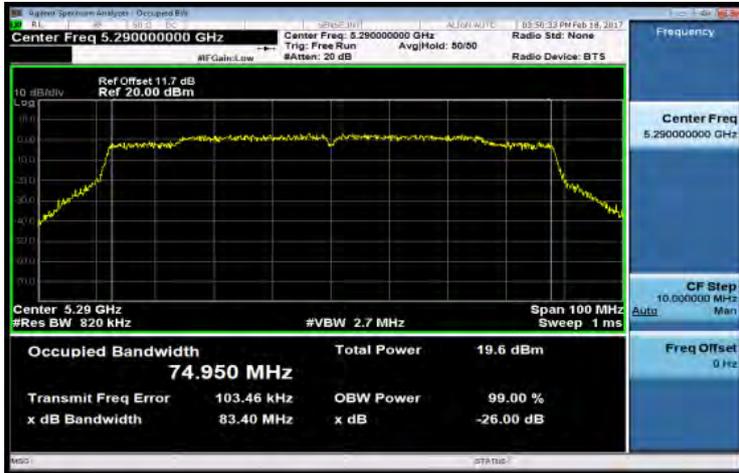
FCC_802.11ac_80MHz_AUX1_5210MHz



FCC_802.11ac_80MHz_AUX1_5610MHz



FCC_802.11ac_80MHz_AUX1_5290MHz



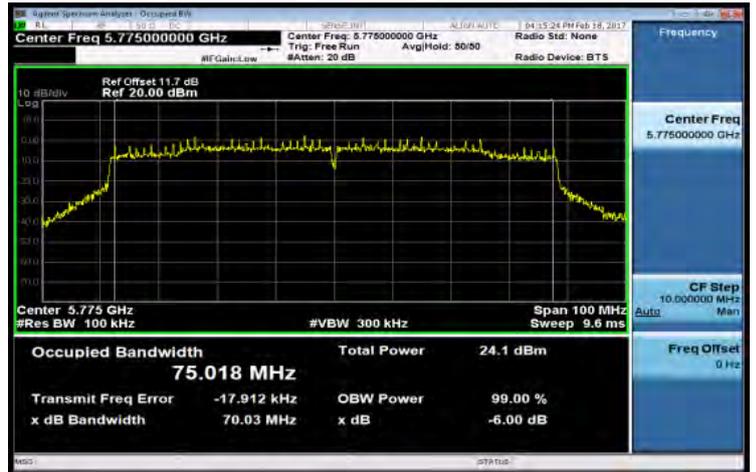
FCC_802.11ac_80MHz_AUX1_5690MHz



FCC_802.11ac_80MHz_AUX1_5530MHz



FCC_802.11ac_80MHz_AUX1_5775MHz



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9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

FCC

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

IC

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

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

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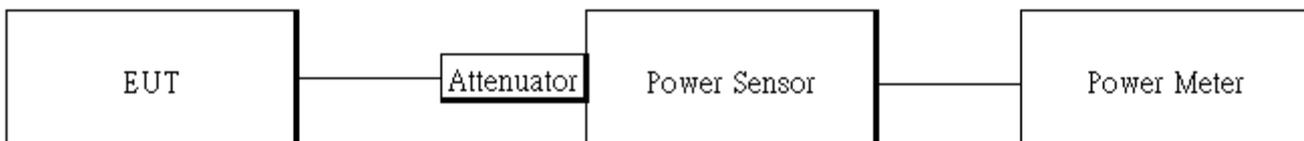
9.2 Measurement Procedure

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	06/23/2016	06/22/2017
Power Sensor	Anritsu	MA2411B	1315048	06/23/2016	06/22/2017
Power Sensor	Anritsu	MA2411B	1315049	06/23/2016	06/22/2017
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2016	12/11/2017
DC Block	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2016	05/03/2017
DC Power Supply	Agilent	E3634A	MY53180030	05/17/2016	05/16/2017
Temperature Chamber	TERCHY	MHG-120LF	911009	05/06/2015	05/05/2016

9.4 Test Set-up



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9.5 Measurement Result

Conducted output power (FCC)

802.11a_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	15.95	39.355	23.98	PASS
44	5220	MCS0	15.96	39.446	23.98	PASS
48	5240	MCS0	15.97	39.537	23.98	PASS
52	5260	MCS0	15.93	39.174	23.98 or $11+10\log(B) = 24.36$	PASS
60	5300	MCS0	15.91	38.994	23.98 or $11+10\log(B) = 24.53$	PASS
64	5320	MCS0	15.94	39.264	23.98 or $11+10\log(B) = 24.58$	PASS
100	5500	MCS0	15.92	39.084	23.98 or $11+10\log(B) = 24.48$	PASS
116	5580	MCS0	15.96	39.446	23.98 or $11+10\log(B) = 24.58$	PASS
140	5700	MCS0	14.45	27.861	23.98 or $11+10\log(B) = 24.37$	PASS
149	5745	MCS0	14.96	31.333	30	PASS
157	5785	MCS0	15.96	39.446	30	PASS
165	5825	MCS0	15.96	39.446	30	PASS

802.11a_Aux1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	15.98	39.628	23.98	PASS
44	5220	MCS0	15.99	39.719	23.98	PASS
48	5240	MCS0	15.99	39.719	23.98	PASS
52	5260	MCS0	15.96	39.446	23.98 or $11+10\log(B) = 24.46$	PASS
60	5300	MCS0	15.99	39.719	23.98 or $11+10\log(B) = 24.61$	PASS
64	5320	MCS0	15.96	39.446	23.98 or $11+10\log(B) = 24.44$	PASS
100	5500	MCS0	15.98	39.628	23.98 or $11+10\log(B) = 24.44$	PASS
116	5580	MCS0	15.97	39.537	23.98 or $11+10\log(B) = 24.52$	PASS
140	5700	MCS0	14.49	28.119	23.98 or $11+10\log(B) = 24.50$	PASS
149	5745	MCS0	14.95	31.261	30	PASS
157	5785	MCS0	15.92	39.084	30	PASS
165	5825	MCS0	15.91	38.994	30	PASS

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802.11n_HT20_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	15.92	39.084	23.98	PASS
44	5220	MCS0	15.93	39.174	23.98	PASS
48	5240	MCS0	15.96	39.446	23.98	PASS
52	5260	MCS0	15.96	39.446	23.98 or $11+10\log(B) = 24.36$	PASS
60	5300	MCS0	15.94	39.264	23.98 or $11+10\log(B) = 24.38$	PASS
64	5320	MCS0	15.93	39.174	23.98 or $11+10\log(B) = 24.33$	PASS
100	5500	MCS0	14.93	31.117	23.98 or $11+10\log(B) = 24.62$	PASS
116	5580	MCS0	15.91	38.994	23.98 or $11+10\log(B) = 24.64$	PASS
140	5700	MCS0	15.96	39.446	23.98 or $11+10\log(B) = 24.55$	PASS
149	5745	MCS0	15.96	39.446	30	PASS
157	5785	MCS0	15.95	39.355	30	PASS
165	5825	MCS0	15.98	39.628	30	PASS

802.11n_HT20_Aux1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	15.99	39.719	23.98	PASS
44	5220	MCS0	15.98	39.628	23.98	PASS
48	5240	MCS0	15.99	39.719	23.98	PASS
52	5260	MCS0	15.98	39.628	23.98 or $11+10\log(B) = 24.41$	PASS
60	5300	MCS0	15.97	39.537	23.98 or $11+10\log(B) = 24.58$	PASS
64	5320	MCS0	15.96	39.446	23.98 or $11+10\log(B) = 24.53$	PASS
100	5500	MCS0	14.97	31.405	23.98 or $11+10\log(B) = 24.56$	PASS
116	5580	MCS0	15.95	39.355	23.98 or $11+10\log(B) = 24.75$	PASS
140	5700	MCS0	15.98	39.628	23.98 or $11+10\log(B) = 24.65$	PASS
149	5745	MCS0	15.92	39.084	30	PASS
157	5785	MCS0	15.93	39.174	30	PASS
165	5825	MCS0	15.95	39.355	30	PASS

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802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	Avg. power (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
			CH 0	CH 1					
36	5180	MCS8	12.51	12.93	15.74	37.457		23.98	PASS
44	5220	MCS8	12.76	12.84	15.81	38.111		23.98	PASS
48	5240	MCS8	12.69	12.89	15.80	38.032		23.98	PASS
52	5260	MCS8	12.78	12.88	15.84	38.376	23.98	or $11+10\log(B) = 24.36$	PASS
60	5300	MCS8	12.78	12.85	15.83	38.242	23.98	or $11+10\log(B) = 24.38$	PASS
64	5320	MCS8	12.67	12.87	15.78	37.857	23.98	or $11+10\log(B) = 24.33$	PASS
100	5500	MCS8	11.95	11.87	14.92	31.049	23.98	or $11+10\log(B) = 24.56$	PASS
116	5580	MCS8	12.91	12.51	15.72	37.367	23.98	or $11+10\log(B) = 24.64$	PASS
140	5700	MCS8	12.85	12.98	15.93	39.136	23.98	or $11+10\log(B) = 24.55$	PASS
149	5745	MCS8	12.82	12.89	15.87	38.596		30	PASS
157	5785	MCS8	12.38	12.92	15.67	36.887		30	PASS
165	5825	MCS8	12.74	12.98	15.87	38.654		30	PASS

802.11ac_VHT20_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
36	5180	MCS0	15.92	39.084		23.98	PASS
44	5220	MCS0	15.95	39.355		23.98	PASS
48	5240	MCS0	15.95	39.355		23.98	PASS
52	5260	MCS0	15.95	39.355	23.98	or $11+10\log(B) = \#NUM!$	#NUM!
60	5300	MCS0	15.91	38.994	23.98	or $11+10\log(B) = \#NUM!$	#NUM!
64	5320	MCS0	15.92	39.084	23.98	or $11+10\log(B) = \#NUM!$	#NUM!
100	5500	MCS0	14.92	31.046	23.98	or $11+10\log(B) = \#NUM!$	#NUM!
116	5580	MCS0	15.92	39.084	23.98	or $11+10\log(B) = \#NUM!$	#NUM!
140	5700	MCS0	15.95	39.355	23.98	or $11+10\log(B) = \#NUM!$	#NUM!
149	5745	MCS0	15.95	39.355		30	PASS
157	5785	MCS0	15.94	39.264		30	PASS
165	5825	MCS0	15.96	39.446		30	PASS

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802.11ac_VHT20_Aux1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	15.97	39.537	23.98	PASS
44	5220	MCS0	15.98	39.628	23.98	PASS
48	5240	MCS0	15.97	39.537	23.98	PASS
52	5260	MCS0	15.97	39.537	23.98 or $11+10\log(B) = \#NUM!$	#NUM!
60	5300	MCS0	15.95	39.355	23.98 or $11+10\log(B) = \#NUM!$	#NUM!
64	5320	MCS0	15.95	39.355	23.98 or $11+10\log(B) = \#NUM!$	#NUM!
100	5500	MCS0	14.93	31.117	23.98 or $11+10\log(B) = \#NUM!$	#NUM!
116	5580	MCS0	15.92	39.084	23.98 or $11+10\log(B) = \#NUM!$	#NUM!
140	5700	MCS0	15.96	39.446	23.98 or $11+10\log(B) = \#NUM!$	#NUM!
149	5745	MCS0	15.94	39.264	30	PASS
157	5785	MCS0	15.92	39.084	30	PASS
165	5825	MCS0	15.93	39.174	30	PASS

802.11ac_VHT20_MIMO

CH	Frequency (MHz)	Data Rate	Avg. power (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS0	12.62	12.88	15.76	37.690	23.98	PASS
44	5220	MCS0	12.8	12.95	15.89	38.779	23.98	PASS
48	5240	MCS0	12.81	12.98	15.91	38.959	23.98	PASS
52	5260	MCS0	12.86	12.94	15.91	38.999	23.98 or $11+10\log(B) = 24.36$	PASS
60	5300	MCS0	12.85	12.97	15.92	39.091	23.98 or $11+10\log(B) = 24.38$	PASS
64	5320	MCS0	12.85	12.97	15.92	39.091	23.98 or $11+10\log(B) = 24.33$	PASS
100	5500	MCS0	11.97	11.82	14.91	30.945	23.98 or $11+10\log(B) = 24.56$	PASS
116	5580	MCS0	12.97	12.48	15.74	37.516	23.98 or $11+10\log(B) = 24.64$	PASS
140	5700	MCS0	12.85	12.98	15.93	39.136	23.98 or $11+10\log(B) = 24.55$	PASS
149	5745	MCS0	12.86	12.98	15.93	39.181	30	PASS
157	5785	MCS0	12.49	12.96	15.74	37.512	30	PASS
165	5825	MCS0	12.73	12.95	15.85	38.474	30	PASS

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802.11n_HT40_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	15.97	39.537	23.98	PASS
46	5230	MCS0	15.97	39.537	23.98	PASS
54	5270	MCS0	15.96	39.446	23.98 or $11+10\log(B) = 27.35$	PASS
62	5310	MCS0	15.96	39.446	23.98 or $11+10\log(B) = 27.40$	PASS
102	5510	MCS0	15.95	39.355	23.98 or $11+10\log(B) = 27.42$	PASS
110	5550	MCS0	15.96	39.446	23.98 or $11+10\log(B) = 27.47$	PASS
134	5670	MCS0	15.95	39.355	23.98 or $11+10\log(B) = 27.42$	PASS
151	5755	MCS0	15.97	39.537	30	PASS
159	5795	MCS0	15.95	39.355	30	PASS

802.11n_HT40_Aux1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	15.98	39.628	23.98	PASS
46	5230	MCS0	15.99	39.719	23.98	PASS
54	5270	MCS0	15.98	39.628	23.98 or $11+10\log(B) = 27.41$	PASS
62	5310	MCS0	15.99	39.719	23.98 or $11+10\log(B) = 27.47$	PASS
102	5510	MCS0	15.96	39.446	23.98 or $11+10\log(B) = 27.47$	PASS
110	5550	MCS0	15.97	39.537	23.98 or $11+10\log(B) = 27.58$	PASS
134	5670	MCS0	15.97	39.537	23.98 or $11+10\log(B) = 27.48$	PASS
151	5755	MCS0	15.96	39.446	30	PASS
159	5795	MCS0	15.94	39.264	30	PASS

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802.11n_HT40_MIMO

CH	Frequency (MHz)	Data Rate	Avg. power (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
			CH 0	CH 1					
38	5190	MCS8	12.71	12.95	15.84	38.388	23.98		PASS
46	5230	MCS8	12.86	12.97	15.93	39.135	23.98		PASS
54	5270	MCS8	12.92	12.95	15.95	39.313	23.98	or $11+10\log(B) = 27.35$	PASS
62	5310	MCS8	12.91	12.89	15.91	38.997	23.98	or $11+10\log(B) = 27.40$	PASS
102	5510	MCS8	12.92	12.73	15.84	38.338	23.98	or $11+10\log(B) = 27.42$	PASS
110	5550	MCS8	12.96	12.48	15.74	37.471	23.98	or $11+10\log(B) = 27.47$	PASS
134	5670	MCS8	12.88	12.98	15.94	39.270	23.98	or $11+10\log(B) = 27.42$	PASS
151	5755	MCS8	12.89	12.96	15.94	39.223	30		PASS
159	5795	MCS8	12.58	12.98	15.79	37.974	30		PASS

802.11ac_VHT40_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
38	5190	MCS0	15.97	39.537	23.98		PASS
46	5230	MCS0	15.94	39.264	23.98		PASS
54	5270	MCS0	15.94	39.264	23.98	or $11+10\log(B) = \#NUM!$	#NUM!
62	5310	MCS0	15.95	39.355	23.98	or $11+10\log(B) = \#NUM!$	#NUM!
102	5510	MCS0	15.91	38.994	23.98	or $11+10\log(B) = \#NUM!$	#NUM!
110	5550	MCS0	15.92	39.084	23.98	or $11+10\log(B) = \#NUM!$	#NUM!
134	5670	MCS0	15.94	39.264	23.98	or $11+10\log(B) = \#NUM!$	#NUM!
151	5755	MCS0	15.92	39.084	30		PASS
159	5795	MCS0	15.90	38.905	30		PASS

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802.11ac_VHT40_Aux1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	15.95	39.355	23.98	PASS
46	5230	MCS0	15.96	39.446	23.98	PASS
54	5270	MCS0	15.96	39.446	23.98 or 11+10log(B) = #NUM!	#NUM!
62	5310	MCS0	15.97	39.537	23.98 or 11+10log(B) = #NUM!	#NUM!
102	5510	MCS0	15.95	39.355	23.98 or 11+10log(B) = #NUM!	#NUM!
110	5550	MCS0	15.96	39.446	23.98 or 11+10log(B) = #NUM!	#NUM!
134	5670	MCS0	15.95	39.355	23.98 or 11+10log(B) = #NUM!	#NUM!
151	5755	MCS0	15.93	39.174	30	PASS
159	5795	MCS0	15.94	39.264	30	PASS

802.11ac_VHT40_MIMO

CH	Frequency (MHz)	Data Rate	Avg. power (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
38	5190	MCS0	12.79	12.96	15.89	38.780	23.98	PASS
46	5230	MCS0	12.92	12.95	15.95	39.313	23.98	PASS
54	5270	MCS0	12.86	12.92	15.90	38.908	23.98 or 11+10log(B) = 27.35	PASS
62	5310	MCS0	12.83	12.86	15.86	38.506	23.98 or 11+10log(B) = 27.40	PASS
102	5510	MCS0	12.92	12.74	15.84	38.382	23.98 or 11+10log(B) = 27.42	PASS
110	5550	MCS0	12.87	12.33	15.62	36.464	23.98 or 11+10log(B) = 27.47	PASS
134	5670	MCS0	12.92	12.94	15.94	39.267	23.98 or 11+10log(B) = 27.42	PASS
151	5755	MCS0	12.96	12.88	15.93	39.179	30	PASS
159	5795	MCS0	12.64	12.93	15.80	37.999	30	PASS

802.11ac_VHT80_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	10.91	12.331	23.98	PASS
58	5290	MCS0	11.41	13.836	23.98 or 11+10log(B) = 30.24	PASS
106	5530	MCS0	15.84	38.371	23.98 or 11+10log(B) = 30.23	PASS
122	5610	MCS0	15.87	38.637	23.98 or 11+10log(B) = 30.19	PASS
155	5775	MCS0	15.88	38.726	30	PASS

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802.11ac_VHT80_Aux1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	11.98	15.776	23.98	PASS
58	5290	MCS0	11.48	14.060	23.98 or $11+10\log(B) = 30.21$	PASS
106	5530	MCS0	15.92	39.084	23.98 or $11+10\log(B) = 30.29$	PASS
122	5610	MCS0	15.96	39.446	23.98 or $11+10\log(B) = 30.19$	PASS
155	5775	MCS0	15.81	38.107	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	Avg. power (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
42	5210	MCS0	7.45	7.94	10.71	11.782	23.98	PASS
58	5290	MCS0	7.91	8.49	11.22	13.243	23.98 or $11+10\log(B) = 30.21$	PASS
106	5530	MCS0	12.63	12.94	15.80	38.002	23.98 or $11+10\log(B) = 30.23$	PASS
122	5610	MCS0	12.51	12.91	15.72	37.367	23.98 or $11+10\log(B) = 30.19$	PASS
155	5775	MCS0	12.14	12.99	15.60	36.275	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	15.93	39.174	23.98 or $11+10\log(B) = 23.14$	PASS
60	5300	15.91	38.994	23.98 or $11+10\log(B) = 23.14$	PASS
64	5320	15.94	39.264	23.98 or $11+10\log(B) = 23.12$	PASS
100	5500	15.92	39.084	23.98 or $11+10\log(B) = 23.11$	PASS
116	5580	15.96	39.446	23.98 or $11+10\log(B) = 23.15$	PASS
140	5700	14.45	27.861	23.98 or $11+10\log(B) = 23.17$	PASS
149	5745	14.96	31.333	30	PASS
157	5785	15.96	39.446	30	PASS
165	5825	15.96	39.446	30	PASS

802.11a_Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	15.96	39.446	23.98 or $11+10\log(B) = 23.16$	PASS
60	5300	15.99	39.719	23.98 or $11+10\log(B) = 23.16$	PASS
64	5320	15.96	39.446	23.98 or $11+10\log(B) = 23.12$	PASS
100	5500	15.98	39.628	23.98 or $11+10\log(B) = 23.11$	PASS
116	5580	15.97	39.537	23.98 or $11+10\log(B) = 23.13$	PASS
140	5700	14.49	28.119	23.98 or $11+10\log(B) = 23.16$	PASS
149	5745	14.95	31.261	30	PASS
157	5785	15.92	39.084	30	PASS
165	5825	15.91	38.994	30	PASS

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802.11n_HT20_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	15.96	39.446	23.98 or 11+10log(B) = 23.47	PASS
60	5300	15.94	39.264	23.98 or 11+10log(B) = 23.44	PASS
64	5320	15.93	39.174	23.98 or 11+10log(B) = 23.47	PASS
100	5500	14.93	31.117	23.98 or 11+10log(B) = 23.47	PASS
116	5580	15.91	38.994	23.98 or 11+10log(B) = 23.48	PASS
140	5700	15.96	39.446	23.98 or 11+10log(B) = 23.48	PASS
149	5745	15.96	39.446	30	PASS
157	5785	15.95	39.355	30	PASS
165	5825	15.98	39.628	30	PASS

802.11n_HT20_Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	15.98	39.628	23.98 or 11+10log(B) = 23.43	PASS
60	5300	15.97	39.537	23.98 or 11+10log(B) = 23.45	PASS
64	5320	15.96	39.446	23.98 or 11+10log(B) = 23.46	PASS
100	5500	14.97	31.405	23.98 or 11+10log(B) = 23.48	PASS
116	5580	15.95	39.355	23.98 or 11+10log(B) = 23.45	PASS
140	5700	15.98	39.628	23.98 or 11+10log(B) = 23.00	PASS
149	5745	15.92	39.084	30	PASS
157	5785	15.93	39.174	30	PASS
165	5825	15.95	39.355	30	PASS

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802.11n_HT20_MIMO

CH	Frequency (MHz)	Avg. power (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
52	5260	12.78	12.88	15.84	38.376	23.98 or 11+10log(B) = 23.43	PASS
60	5300	12.78	12.85	15.83	38.242	23.98 or 11+10log(B) = 23.44	PASS
64	5320	12.67	12.87	15.78	37.857	23.98 or 11+10log(B) = 23.46	PASS
100	5500	11.95	11.87	14.92	31.049	23.98 or 11+10log(B) = 23.47	PASS
116	5580	12.91	12.51	15.72	37.367	23.98 or 11+10log(B) = 23.45	PASS
140	5700	12.85	12.98	15.93	39.136	23.98 or 11+10log(B) = 23.00	PASS
149	5745	12.82	12.89	15.87	38.596	30	PASS
157	5785	12.38	12.92	15.67	36.887	30	PASS
165	5825	12.74	12.98	15.87	38.654	30	PASS

802.11ac_VHT20_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	15.95	39.355	23.98 or 11+10log(B) = #NUM!	#NUM!
60	5300	15.91	38.994	23.98 or 11+10log(B) = #NUM!	#NUM!
64	5320	15.92	39.084	23.98 or 11+10log(B) = #NUM!	#NUM!
100	5500	14.92	31.046	23.98 or 11+10log(B) = #NUM!	#NUM!
116	5580	15.92	39.084	23.98 or 11+10log(B) = #NUM!	#NUM!
140	5700	15.95	39.355	23.98 or 11+10log(B) = #NUM!	#NUM!
149	5745	15.95	39.355	30	PASS
157	5785	15.94	39.264	30	PASS
165	5825	15.96	39.446	30	PASS

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802.11ac_VHT20_Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	15.97	39.537	23.98 or 11+10log(B) = #NUM!	#NUM!
60	5300	15.95	39.355	23.98 or 11+10log(B) = #NUM!	#NUM!
64	5320	15.95	39.355	23.98 or 11+10log(B) = #NUM!	#NUM!
100	5500	14.93	31.117	23.98 or 11+10log(B) = #NUM!	#NUM!
116	5580	15.92	39.084	23.98 or 11+10log(B) = #NUM!	#NUM!
140	5700	15.96	39.446	23.98 or 11+10log(B) = #NUM!	#NUM!
149	5745	15.94	39.264	30	PASS
157	5785	15.92	39.084	30	PASS
165	5825	15.93	39.174	30	PASS

802.11ac_VHT20_MIMO

CH	Frequency (MHz)	Avg. power (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
52	5260	12.86	12.94	15.91	38.999	23.98 or 11+10log(B) = 23.43	PASS
60	5300	12.85	12.97	15.92	39.091	23.98 or 11+10log(B) = 23.44	PASS
64	5320	12.85	12.97	15.92	39.091	23.98 or 11+10log(B) = 23.46	PASS
100	5500	11.97	11.82	14.91	30.945	23.98 or 11+10log(B) = 23.47	PASS
116	5580	12.97	12.48	15.74	37.516	23.98 or 11+10log(B) = 23.45	PASS
140	5700	12.85	12.98	15.93	39.136	23.98 or 11+10log(B) = 23.00	PASS
149	5745	12.86	12.98	15.93	39.181	30	PASS
157	5785	12.49	12.96	15.74	37.512	30	PASS
165	5825	12.73	12.95	15.85	38.474	30	PASS

802.11ac_VHT40_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	15.94	39.264	23.98 or 11+10log(B) = #NUM!	#NUM!
62	5310	15.95	39.355	23.98 or 11+10log(B) = #NUM!	#NUM!
102	5510	15.91	38.994	23.98 or 11+10log(B) = #NUM!	#NUM!
110	5550	15.92	39.084	23.98 or 11+10log(B) = #NUM!	#NUM!
134	5670	15.94	39.264	23.98 or 11+10log(B) = #NUM!	#NUM!
151	5755	15.92	39.084	30	PASS
159	5795	15.90	38.905	30	PASS

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802.11ac_VHT40_Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	15.96	39.446	23.98 or 11+10log(B) = #NUM!	#NUM!
62	5310	15.97	39.537	23.98 or 11+10log(B) = #NUM!	#NUM!
102	5510	15.95	39.355	23.98 or 11+10log(B) = #NUM!	#NUM!
110	5550	15.96	39.446	23.98 or 11+10log(B) = #NUM!	#NUM!
134	5670	15.95	39.355	23.98 or 11+10log(B) = #NUM!	#NUM!
151	5755	15.93	39.174	30	PASS
159	5795	15.94	39.264	30	PASS

802.11ac_VHT40_MIMO

CH	Frequency (MHz)	Avg. power (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
54	5270	12.86	12.92	15.90	38.908	23.98 or 11+10log(B) = 26.58	PASS
62	5310	12.83	12.86	15.86	38.506	23.98 or 11+10log(B) = 26.56	PASS
102	5510	12.92	12.74	15.84	38.382	23.98 or 11+10log(B) = 26.58	PASS
110	5550	12.87	12.33	15.62	36.464	23.98 or 11+10log(B) = 26.57	PASS
134	5670	12.92	12.94	15.94	39.267	23.98 or 11+10log(B) = 26.56	PASS
151	5755	12.96	12.88	15.93	39.179	30	PASS
159	5795	12.64	12.93	15.80	37.999	30	PASS

802.11ac_VHT80_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	11.41	13.836	23.98 or 11+10log(B) = 29.77	PASS
106	5530	15.84	38.371	23.98 or 11+10log(B) = 29.78	PASS
155	5775	15.88	38.726	30	PASS

802.11ac_VHT80_Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	11.48	14.060	23.98 or 11+10log(B) = 29.79	PASS
106	5530	15.92	39.084	23.98 or 11+10log(B) = 29.70	PASS
155	5775	15.81	38.107	30	PASS

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802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Avg. power (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
58	5290	7.91	8.49	11.22	13.243	23.98 or $11+10\log(B) = 29.77$	PASS
106	5530	12.63	12.94	15.80	38.002	23.98 or $11+10\log(B) = 29.70$	PASS
155	5775	12.14	12.99	15.60	36.275	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	15.95	-3.700	12.25	16.788	23.01	or 10+10log(B)= 22.16	PASS
44	5220	15.96	-3.700	12.26	16.827	23.01	or 10+10log(B)= 22.19	PASS
48	5240	15.97	-3.700	12.27	16.866	23.01	or 10+10log(B)= 22.15	PASS
52	5260	15.93	-3.600	12.33	17.100	30	or 17+10log(B)= 29.14	PASS
60	5300	15.91	-3.600	12.31	17.022	30	or 17+10log(B)= 29.14	PASS
64	5320	15.94	-3.600	12.34	17.140	30	or 17+10log(B)= 29.12	PASS
100	5500	15.92	-3.700	12.22	16.672	30	or 17+10log(B)= 29.11	PASS
116	5580	15.96	-3.700	12.26	16.827	30	or 17+10log(B)= 29.15	PASS
140	5700	14.45	-3.700	10.75	11.885	30	or 17+10log(B)= 29.17	PASS

802.11a_Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
36	5180	15.98	-3.500	12.48	17.701	23.01	or 10+10log(B)= 22.14	PASS
44	5220	15.99	-3.500	12.49	17.742	23.01	or 10+10log(B)= 22.15	PASS
48	5240	15.99	-3.500	12.49	17.742	23.01	or 10+10log(B)= 22.14	PASS
52	5260	15.96	-3.400	12.56	18.030	30	or 17+10log(B)= 29.16	PASS
60	5300	15.99	-3.400	12.59	18.155	30	or 17+10log(B)= 29.16	PASS
64	5320	15.96	-3.400	12.56	18.030	30	or 17+10log(B)= 29.12	PASS
100	5500	15.98	-3.300	12.68	18.535	30	or 17+10log(B)= 29.11	PASS
116	5580	15.97	-3.300	12.67	18.493	30	or 17+10log(B)= 29.13	PASS
140	5700	14.49	-3.300	11.19	13.152	30	or 17+10log(B)= 29.16	PASS

802.11n_HT20_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
36	5180	15.92	-3.700	12.22	16.672	23.01	or 10+10log(B)= 22.46	PASS
44	5220	15.93	-3.700	12.23	16.711	23.01	or 10+10log(B)= 22.47	PASS
48	5240	15.96	-3.700	12.26	16.827	23.01	or 10+10log(B)= 22.47	PASS
52	5260	15.96	-3.600	12.36	17.219	30	or 17+10log(B)= 29.47	PASS
60	5300	15.94	-3.600	12.34	17.140	30	or 17+10log(B)= 29.44	PASS
64	5320	15.93	-3.600	12.33	17.100	30	or 17+10log(B)= 29.47	PASS
100	5500	14.93	-3.700	11.23	13.274	30	or 17+10log(B)= 29.47	PASS
116	5580	15.91	-3.700	12.21	16.634	30	or 17+10log(B)= 29.48	PASS
140	5700	15.96	-3.700	12.26	16.827	30	or 17+10log(B)= 29.48	PASS

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802.11n_HT20_Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
36	5180	15.99	-3.500	12.49	17.742	23.01	or 10+10log(B)= 22.48	PASS
44	5220	15.98	-3.500	12.48	17.701	23.01	or 10+10log(B)= 22.47	PASS
48	5240	15.99	-3.500	12.49	17.742	23.01	or 10+10log(B)= 22.49	PASS
52	5260	15.98	-3.400	12.58	18.113	30	or 17+10log(B)= 29.43	PASS
60	5300	15.97	-3.400	12.57	18.072	30	or 17+10log(B)= 29.45	PASS
64	5320	15.96	-3.400	12.56	18.030	30	or 17+10log(B)= 29.46	PASS
100	5500	14.97	-3.300	11.67	14.689	30	or 17+10log(B)= 29.48	PASS
116	5580	15.95	-3.300	12.65	18.408	30	or 17+10log(B)= 29.45	PASS
140	5700	15.98	-3.300	12.68	18.535	30	or 17+10log(B)= 29.00	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
36	5180	15.74	-0.49	15.25	33.461	23.01	or 10+10log(B)= 22.46	PASS
44	5220	15.81	-0.49	15.32	34.045	23.01	or 10+10log(B)= 22.47	PASS
48	5240	15.80	-0.49	15.31	33.974	23.01	or 10+10log(B)= 22.47	PASS
52	5260	15.84	-0.39	15.45	35.080	30	or 17+10log(B)= 29.43	PASS
60	5300	15.83	-0.39	15.44	34.958	30	or 17+10log(B)= 29.44	PASS
64	5320	15.78	-0.39	15.39	34.605	30	or 17+10log(B)= 29.46	PASS
100	5500	14.92	-0.29	14.63	29.043	30	or 17+10log(B)= 29.47	PASS
116	5580	15.72	-0.29	15.43	34.953	30	or 17+10log(B)= 29.45	PASS
140	5700	15.93	-0.29	15.64	36.608	30	or 17+10log(B)= 29.00	PASS

802.11ac_VHT20_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
36	5180	15.92	-3.700	12.22	16.672	23.01	or 10+10log(B)= #NUM!	#NUM!
44	5220	15.95	-3.700	12.25	16.788	23.01	or 10+10log(B)= #NUM!	#NUM!
48	5240	15.95	-3.700	12.25	16.788	23.01	or 10+10log(B)= #NUM!	#NUM!
52	5260	15.95	-3.600	12.35	17.179	30	or 17+10log(B)= #NUM!	#NUM!
60	5300	15.91	-3.600	12.31	17.022	30	or 17+10log(B)= #NUM!	#NUM!
64	5320	15.92	-3.600	12.32	17.061	30	or 17+10log(B)= #NUM!	#NUM!
100	5500	14.92	-3.700	11.22	13.243	30	or 17+10log(B)= #NUM!	#NUM!
116	5580	15.92	-3.700	12.22	16.672	30	or 17+10log(B)= #NUM!	#NUM!
140	5700	15.95	-3.700	12.25	16.788	30	or 17+10log(B)= #NUM!	#NUM!

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802.11ac_VHT20_Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	15.97	-3.500	12.47	17.660	23.01 or 10+10log(B)= #NUM!	#NUM!
44	5220	15.98	-3.500	12.48	17.701	23.01 or 10+10log(B)= #NUM!	#NUM!
48	5240	15.97	-3.500	12.47	17.660	23.01 or 10+10log(B)= #NUM!	#NUM!
52	5260	15.97	-3.400	12.57	18.072	30 or 17+10log(B)= #NUM!	#NUM!
60	5300	15.95	-3.400	12.55	17.989	30 or 17+10log(B)= #NUM!	#NUM!
64	5320	15.95	-3.400	12.55	17.989	30 or 17+10log(B)= #NUM!	#NUM!
100	5500	14.93	-3.300	11.63	14.555	30 or 17+10log(B)= #NUM!	#NUM!
116	5580	15.92	-3.300	12.62	18.281	30 or 17+10log(B)= #NUM!	#NUM!
140	5700	15.96	-3.300	12.66	18.450	30 or 17+10log(B)= #NUM!	#NUM!

802.11ac_VHT20_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	15.76	-0.49	15.27	33.669	23.01 or 10+10log(B)= 22.46	PASS
44	5220	15.89	-0.49	15.40	34.641	23.01 or 10+10log(B)= 22.47	PASS
48	5240	15.91	-0.49	15.42	34.803	23.01 or 10+10log(B)= 22.47	PASS
52	5260	15.91	-0.39	15.52	35.649	30 or 17+10log(B)= 29.43	PASS
60	5300	15.92	-0.39	15.53	35.733	30 or 17+10log(B)= 29.44	PASS
64	5320	15.92	-0.39	15.53	35.733	30 or 17+10log(B)= 29.46	PASS
100	5500	14.91	-0.29	14.62	28.946	30 or 17+10log(B)= 29.47	PASS
116	5580	15.74	-0.29	15.45	35.093	30 or 17+10log(B)= 29.45	PASS
140	5700	15.93	-0.29	15.64	36.608	30 or 17+10log(B)= 29.00	PASS

802.11n_HT40_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	15.97	-3.700	12.27	16.866	23.01 or 10+10log(B)= 25.58	PASS
46	5230	15.97	-3.700	12.27	16.866	23.01 or 10+10log(B)= 25.57	PASS
54	5270	15.96	-3.600	12.36	17.219	30 or 17+10log(B)= 32.58	PASS
62	5310	15.96	-3.600	12.36	17.219	30 or 17+10log(B)= 32.59	PASS
102	5510	15.95	-3.700	12.25	16.788	30 or 17+10log(B)= 32.58	PASS
110	5550	15.96	-3.700	12.26	16.827	30 or 17+10log(B)= 32.59	PASS
134	5670	15.95	-3.700	12.25	16.788	30 or 17+10log(B)= 32.59	PASS

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802.11n_HT40_Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	15.98	-3.500	12.48	17.701	23.01 or 10+10log(B)= 25.58	PASS
46	5230	15.99	-3.500	12.49	17.742	23.01 or 10+10log(B)= 25.57	PASS
54	5270	15.98	-3.400	12.58	18.113	30 or 17+10log(B)= 32.58	PASS
62	5310	15.99	-3.400	12.59	18.155	30 or 17+10log(B)= 32.56	PASS
102	5510	15.96	-3.300	12.66	18.450	30 or 17+10log(B)= 32.59	PASS
110	5550	15.97	-3.300	12.67	18.493	30 or 17+10log(B)= 32.57	PASS
134	5670	15.97	-3.300	12.67	18.493	30 or 17+10log(B)= 32.56	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	15.84	-0.49	15.35	34.292	23.01 or 10+10log(B)= 25.58	PASS
46	5230	15.93	-0.49	15.44	34.959	23.01 or 10+10log(B)= 25.57	PASS
54	5270	15.95	-0.39	15.56	35.936	30 or 17+10log(B)= 32.58	PASS
62	5310	15.91	-0.39	15.52	35.648	30 or 17+10log(B)= 32.56	PASS
102	5510	15.84	-0.29	15.55	35.862	30 or 17+10log(B)= 32.58	PASS
110	5550	15.74	-0.29	15.45	35.050	30 or 17+10log(B)= 32.57	PASS
134	5670	15.94	-0.29	15.65	36.733	30 or 17+10log(B)= 32.56	PASS

802.11ac_VHT40_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	15.97	-3.700	12.27	16.866	23.01 or 10+10log(B)= #NUM!	#NUM!
46	5230	15.94	-3.700	12.24	16.749	23.01 or 10+10log(B)= #NUM!	#NUM!
54	5270	15.94	-3.600	12.34	17.140	30 or 17+10log(B)= #NUM!	#NUM!
62	5310	15.95	-3.600	12.35	17.179	30 or 17+10log(B)= #NUM!	#NUM!
102	5510	15.91	-3.700	12.21	16.634	30 or 17+10log(B)= #NUM!	#NUM!
110	5550	15.92	-3.700	12.22	16.672	30 or 17+10log(B)= #NUM!	#NUM!
134	5670	15.94	-3.700	12.24	16.749	30 or 17+10log(B)= #NUM!	#NUM!

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802.11ac_VHT40_Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
38	5190	15.95	-3.500	12.45	17.579	23.01	or 10+10log(B)= #NUM!	#NUM!
46	5230	15.96	-3.500	12.46	17.620	23.01	or 10+10log(B)= #NUM!	#NUM!
54	5270	15.96	-3.400	12.56	18.030	30	or 17+10log(B)= #NUM!	#NUM!
62	5310	15.97	-3.400	12.57	18.072	30	or 17+10log(B)= #NUM!	#NUM!
102	5510	15.95	-3.300	12.65	18.408	30	or 17+10log(B)= #NUM!	#NUM!
110	5550	15.96	-3.300	12.66	18.450	30	or 17+10log(B)= #NUM!	#NUM!
134	5670	15.95	-3.300	12.65	18.408	30	or 17+10log(B)= #NUM!	#NUM!

802.11ac_VHT40_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
38	5190	15.89	-0.49	15.40	34.643	23.01	or 10+10log(B)= 25.58	PASS
46	5230	15.95	-0.49	15.46	35.118	23.01	or 10+10log(B)= 25.57	PASS
54	5270	15.90	-0.39	15.51	35.566	30	or 17+10log(B)= 32.58	PASS
62	5310	15.86	-0.39	15.47	35.199	30	or 17+10log(B)= 32.56	PASS
102	5510	15.84	-0.29	15.55	35.902	30	or 17+10log(B)= 32.58	PASS
110	5550	15.62	-0.29	15.33	34.109	30	or 17+10log(B)= 32.57	PASS
134	5670	15.94	-0.29	15.65	36.731	30	or 17+10log(B)= 32.56	PASS

802.11ac_VHT80_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
42	5210	10.91	-3.700	7.21	5.260	23.01	or 10+10log(B)= 28.77	PASS
58	5290	11.41	-3.600	7.81	6.039	30	or 17+10log(B)= 35.77	PASS
106	5530	15.84	-3.700	12.14	16.368	30	or 17+10log(B)= 35.78	PASS

802.11ac_VHT80_Aux1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
42	5210	11.98	-3.500	8.48	7.047	23.01	or 10+10log(B)= 28.65	PASS
58	5290	11.48	-3.400	8.08	6.427	30	or 17+10log(B)= 35.79	PASS
106	5530	15.92	-3.300	12.62	18.281	30	or 17+10log(B)= 35.70	PASS

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802.11ac_VHT80_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)		REQUIRED LIMIT (dBm)		RESULT
42	5210	10.71	-0.49	10.22	10.525	23.01	or $10+10\log(B)=$ 28.65	PASS
58	5290	11.22	-0.39	10.83	12.106	30	or $17+10\log(B)=$ 35.77	PASS
106	5530	15.80	-0.29	15.51	35.547	30	or $17+10\log(B)=$ 35.70	PASS

Note:

SISO offset= 11.7 dB

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10 PEAK POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

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

IC

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

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

10.2 Measurement Procedure

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

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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)

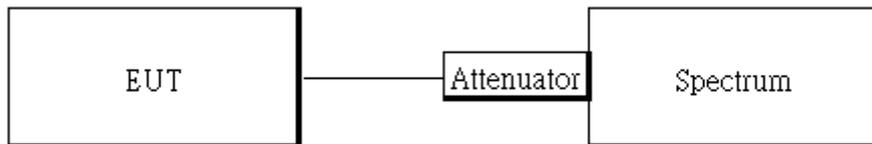
5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

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	MY54510568	04/14/2016	04/13/2017
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	05/04/2016	05/03/2017
DC Power Supply	Agilent	E3634A	MY53180030	05/17/2016	05/16/2017

10.4 Test Set-up



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10.5 Measurement Result

POWER DENSITY 802.11a MODE				POWER DENSITY 802.11n HT20 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	0.55	17	-16.45	5180	1.82	17	-15.18
5220	2.03	17	-14.97	5220	3.70	17	-13.30
5240	2.50	17	-14.50	5240	4.10	17	-12.90
5260	1.56	11	-9.44	5260	3.06	11	-7.94
5300	1.52	11	-9.48	5300	1.44	11	-9.56
5320	1.10	11	-9.90	5320	2.20	11	-8.80
5500	7.19	11	-3.81	5500	1.66	11	-9.34
5580	2.84	11	-8.16	5580	4.56	11	-6.44
5700	1.23	11	-9.77	5700	1.52	11	-9.48
5745	8.40	30	-21.60	5745	9.49	30	-20.51
5785	9.20	30	-20.80	5785	9.39	30	-20.61
5825	9.01	30	-20.99	5825	9.84	30	-20.16

POWER DENSITY 802.11n HT40 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5190	-4.79	17	-21.79
5230	-3.14	17	-20.14
5270	-7.08	11	-18.08
5310	-6.73	11	-17.73
5510	-1.84	11	-12.84
5550	-1.45	11	-12.45
5670	-6.02	11	-17.02
5755	7.41	30	-22.59
5795	6.33	30	-23.67

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EIRP Power Density

EIRP spectral density 802.11a MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	0.55	-3.50	-2.95	10	-9.45
5220	2.03	-3.50	-1.47	10	-7.97
5240	2.50	-3.50	-1.00	10	-7.50

EIRP spectral density 802.11n HT20 MODE						EIRP spectral density 802.11ac VHT20 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	1.82	-3.50	-1.68	10	-8.18	5180	0.00	-3.50	-3.50	10	-10.00
5220	3.70	-3.50	0.20	10	-6.30	5220	0.00	-3.50	-3.50	10	-10.00
5240	4.10	-3.50	0.60	10	-5.90	5240	0.00	-3.50	-3.50	10	-10.00

EIRP spectral density 802.11n HT40 MODE						EIRP spectral density 802.11ac VHT40 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	-4.79	-3.50	-8.29	10	-14.79	5190	0.00	-3.50	-3.50	10	-10.00
5220	-3.14	-3.50	-6.64	10	-13.14	5230	0.00	-3.50	-3.50	10	-10.00

EIRP spectral density 802.11ac VHT80 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5210	-8.46	-3.50	-11.96	10	-18.46

Note:

SISO offset= 11.7 dB

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802.11a_20MHz_5180MHz



802.11a_20MHz_5260MHz



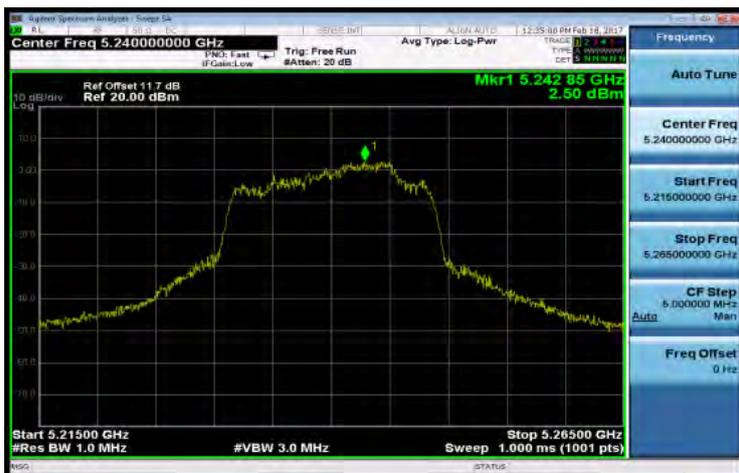
802.11a_20MHz_5220MHz



802.11a_20MHz_5300MHz



802.11a_20MHz_5240MHz



802.11a_20MHz_5320MHz



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802.11a_20MHz_5500MHz



802.11a_20MHz_5745MHz



802.11a_20MHz_5580MHz



802.11a_20MHz_5785MHz



802.11a_20MHz_5700MHz



802.11a_20MHz_5825MHz



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802.11n_20MHz_5180MHz



802.11n_20MHz_5260MHz



802.11n_20MHz_5220MHz



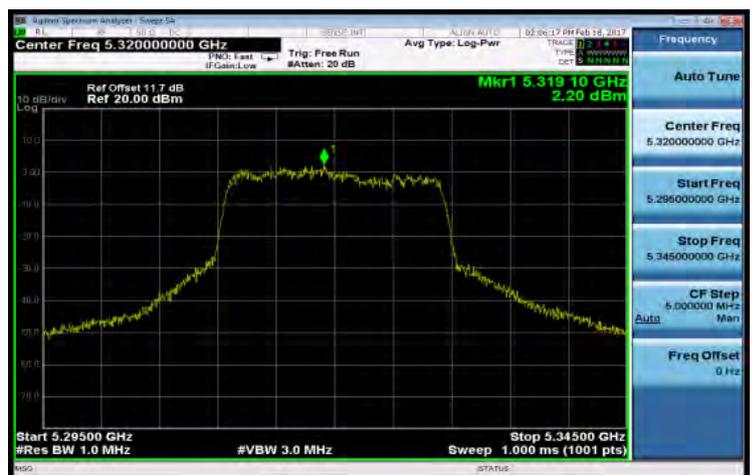
802.11n_20MHz_5300MHz



802.11n_20MHz_5240MHz



802.11n_20MHz_5320MHz



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802.11n_20MHz_5500MHz



802.11n_20MHz_5745MHz



802.11n_20MHz_5580MHz



802.11n_20MHz_5785MHz



802.11n_20MHz_5700MHz



802.11n_20MHz_5825MHz



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802.11n_40MHz_5190MHz



802.11n_40MHz_5310MHz



802.11n_40MHz_5230MHz



802.11n_40MHz_5510MHz



802.11n_40MHz_5270MHz



802.11n_40MHz_5550MHz



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802.11n_40MHz_5670MHz



802.11ac_80MHz_5210MHz



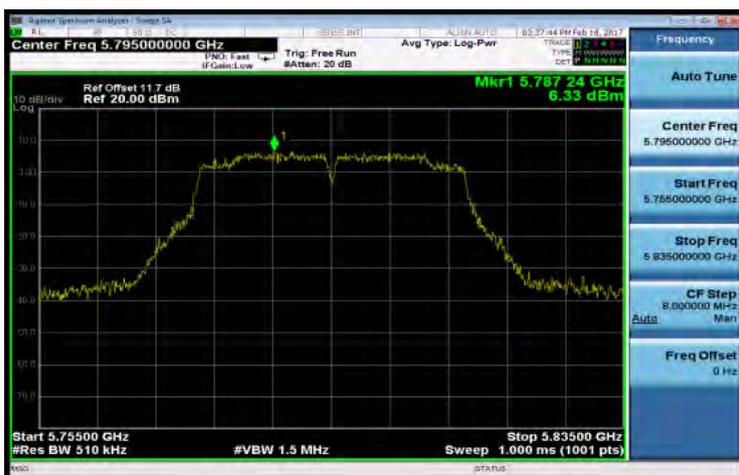
802.11n_40MHz_5755MHz



802.11ac_80MHz_5290MHz



802.11n_40MHz_5795MHz



802.11ac_80MHz_5530MHz



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802.11ac_80MHz_5610MHz



802.11ac_80MHz_5690MHz



802.11ac_80MHz_5775MHz



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11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

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

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

APPLICABLE TO	LIMIT	
FCC KDB 789033 D02 General UNII Test Procedures New Rules	FIELD STRENGTH AT 3m	
	PK: 74 (dBµV/m)	AV 54 (dBµV/m)
APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1) 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 (dB μ V/m) = 20 log Emission level (dB μ V/m)

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11.2 Measurement Equipment Used

SGS SAC-III					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESU 40	100363	04/12/2016	04/11/2017
Loop Antenna	ETS-Lindgren	6502	00143303	12/23/2016	12/22/2017
Broadband Antenna	TESEQ	CBL 6112D	35240	11/03/2016	11/02/2017
Horn Antenna	ETS-Lindgren	3117	00143272	12/15/2016	12/16/2017
Horn Antenna	Schwarzbeck	BBHA9170	185	07/24/2016	07/23/2017
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2016	12/11/2017
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2016	12/11/2017
Pre Amplifier	R&S	SCU-18	10204	12/12/2016	12/11/2017
Pre Amplifier	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	03/04/2016	03/03/2017
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2016	05/03/2017
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Mast	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

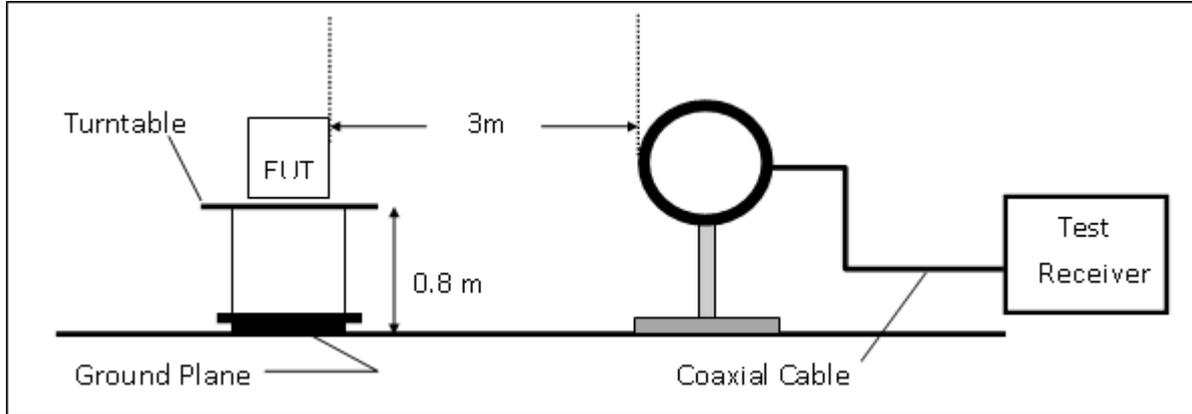
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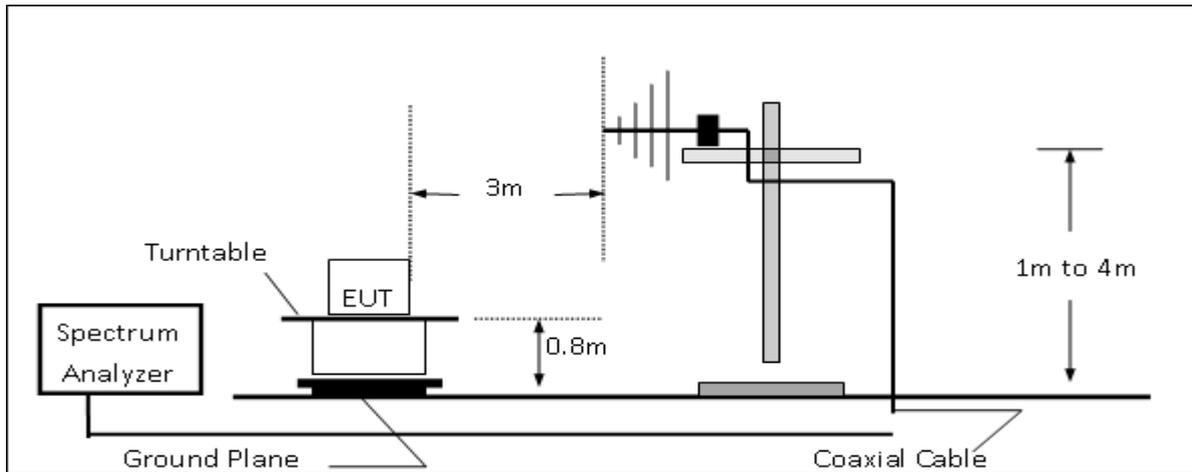
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11.3 Test SET-UP

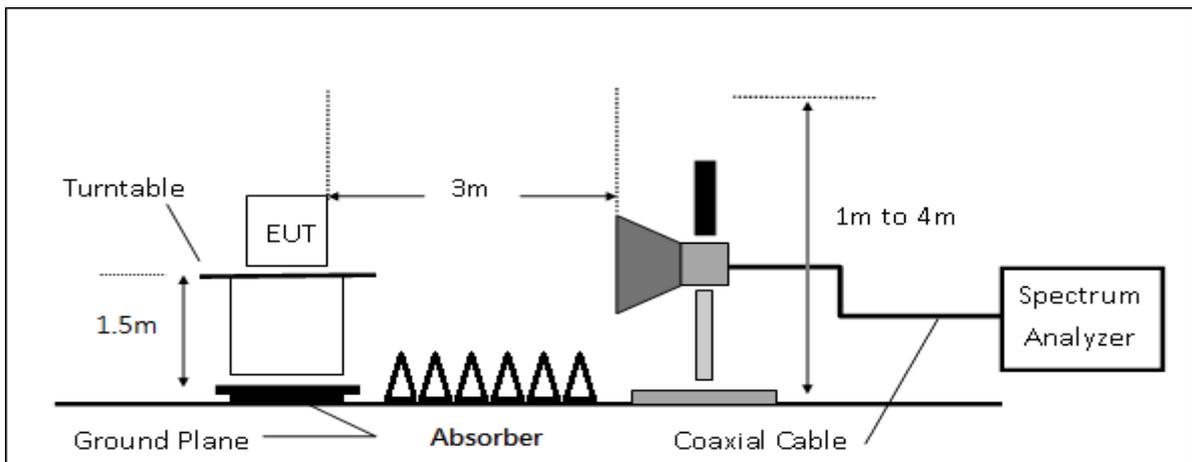
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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11.4 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. Repeat above procedures until all frequency measured were complete.

11.5 Field Strength Calculation

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

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

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

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

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

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Note :

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

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

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

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

11.7 Measurement Result

Refer to next page for tabular data sheets.

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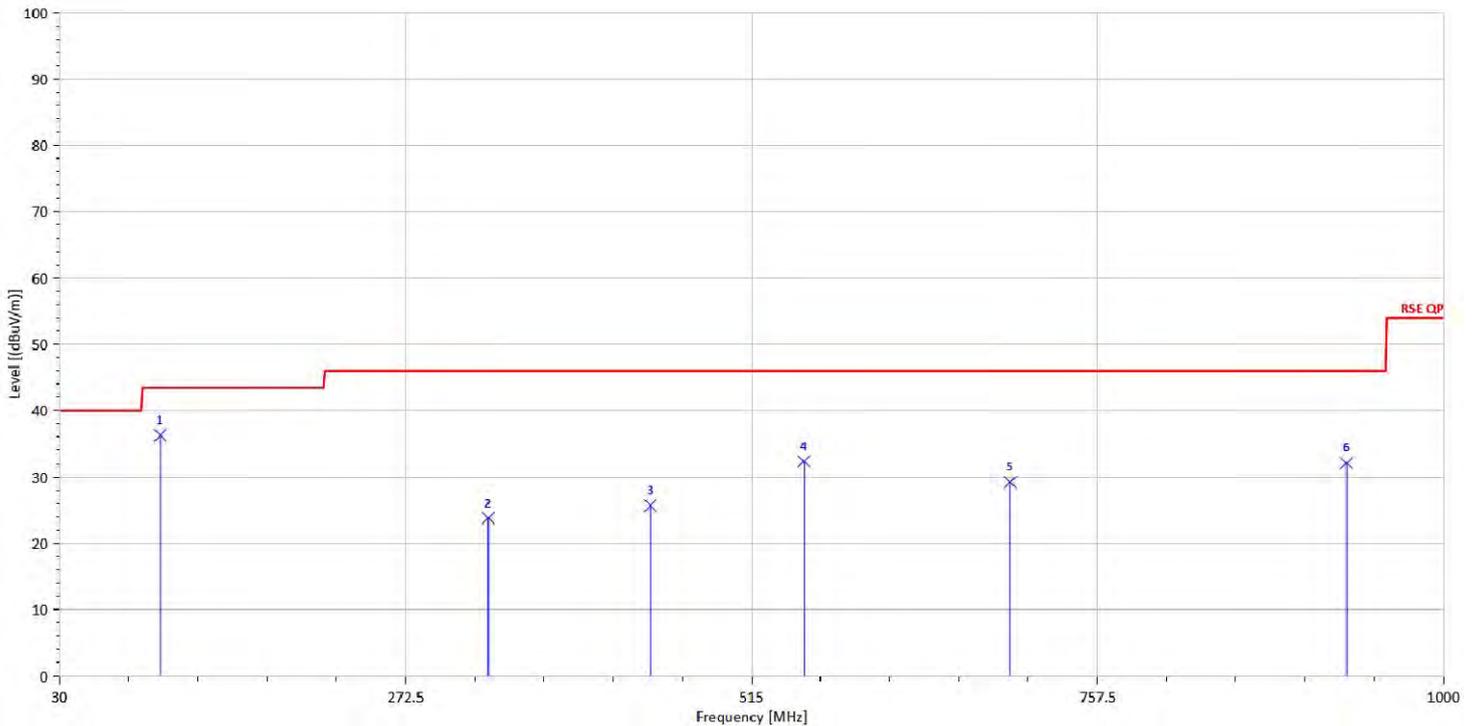
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Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

802.11a 5150~5250 MHz

Operation Mode :	802.11a	Test Date :	2017/2/17
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



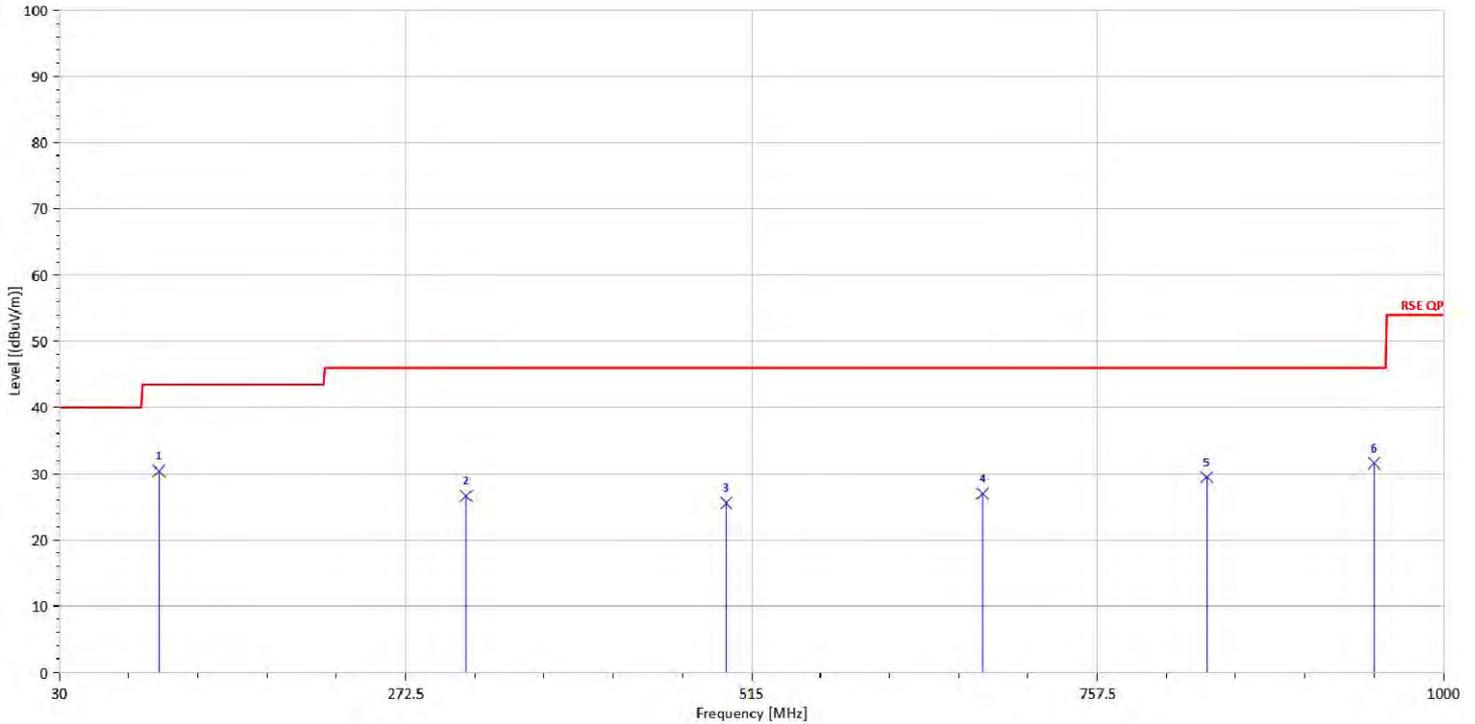
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
100.81	S	Peak	53.93	-17.64	36.29	43.5	-7.21
330.70	S	Peak	35.87	-12.06	23.81	46	-22.19
444.19	S	Peak	35.01	-9.33	25.68	46	-20.32
551.86	S	Peak	39.03	-6.66	32.37	46	-13.63
696.39	S	Peak	34.31	-5.10	29.21	46	-16.79
932.10	S	Peak	33.81	-1.72	32.09	46	-13.91

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Operation Mode : 802.11a Test Date : 2017/2/17
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Penny
 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
99.84	S	Peak	48.17	-17.77	30.40	43.5	-13.10
315.18	S	Peak	38.89	-12.28	26.61	46	-19.39
497.54	S	Peak	33.28	-7.72	25.57	46	-20.43
676.99	S	Peak	32.17	-5.17	26.99	46	-19.01
834.13	S	Peak	32.36	-2.89	29.46	46	-16.54
951.50	S	Peak	33.70	-2.11	31.59	46	-14.41

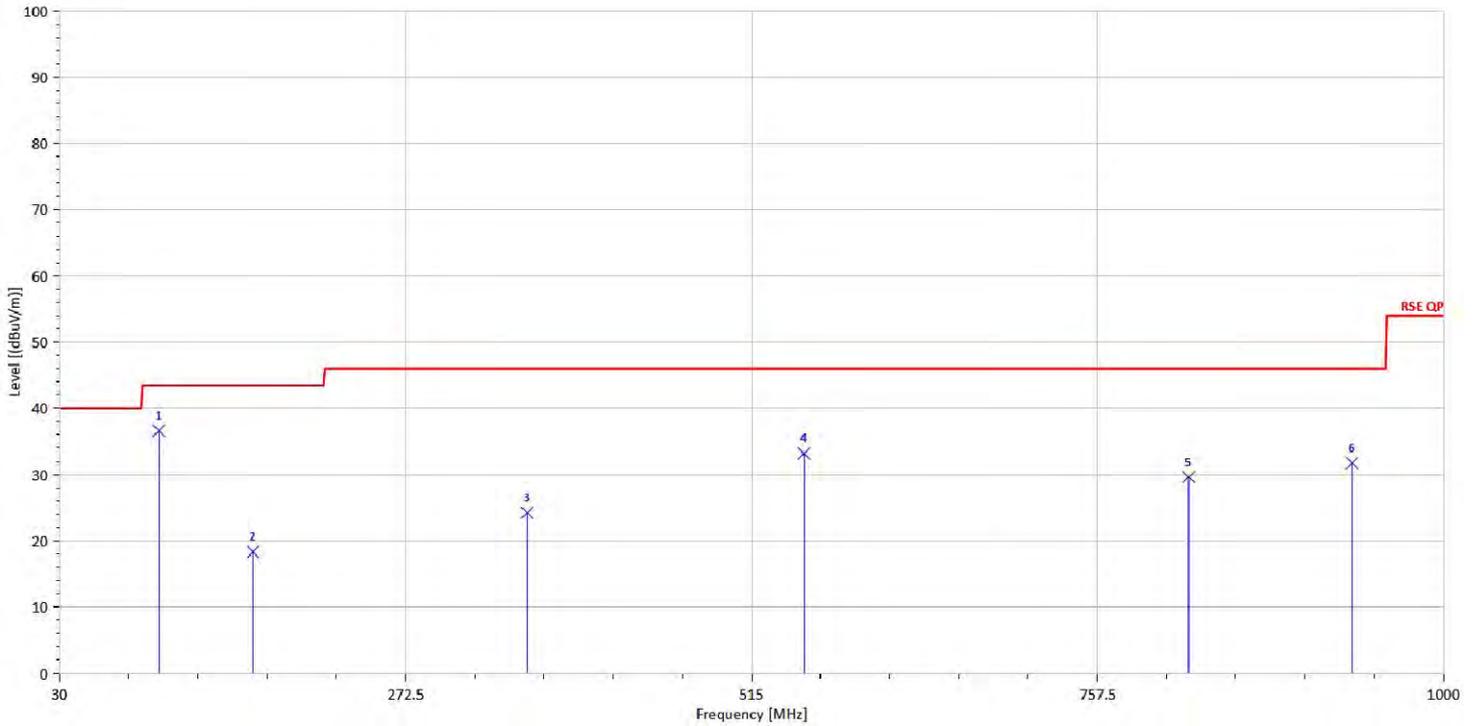
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802.11a 5250~5350 MHz

Operation Mode :	802.11a	Test Date :	2017/2/17
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



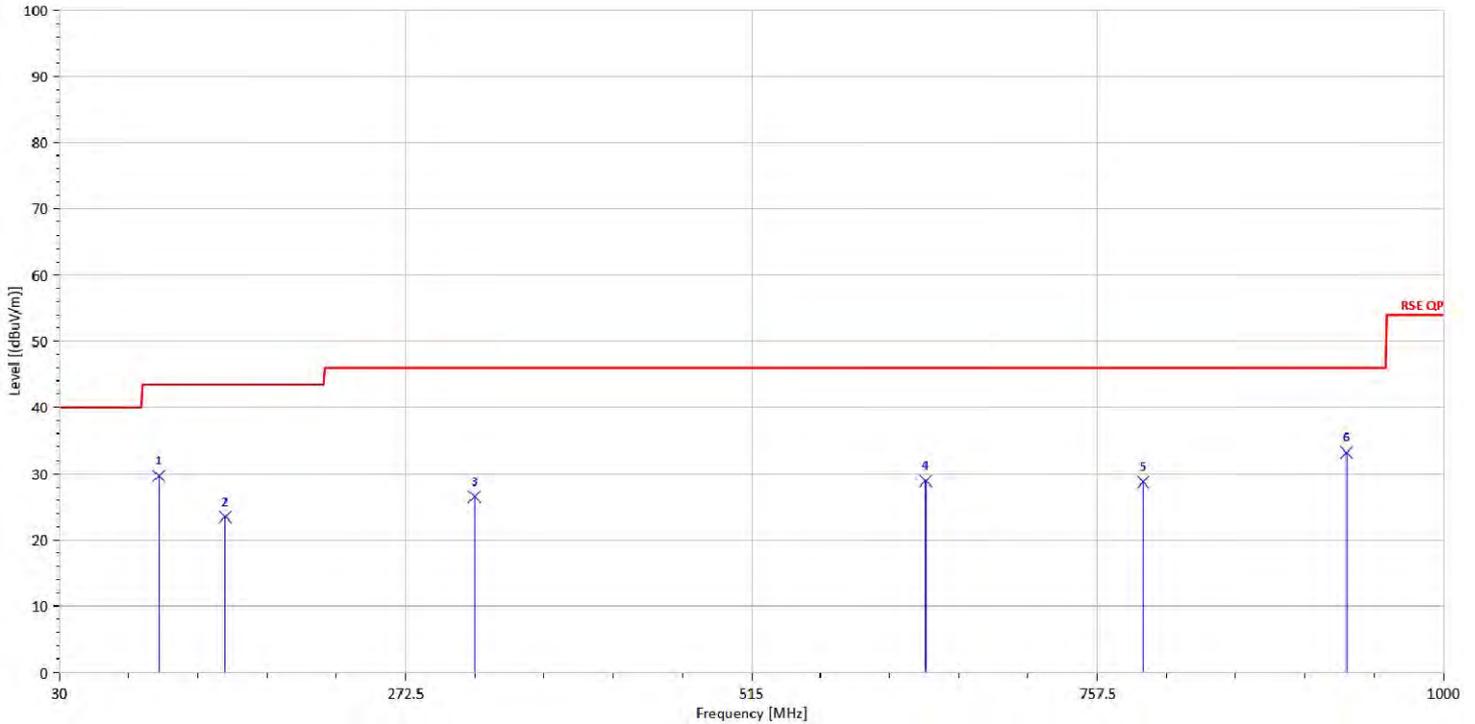
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
99.84	S	Peak	54.38	-17.77	36.61	43.5	-6.89
165.80	S	Peak	36.25	-17.92	18.33	43.5	-25.17
357.86	S	Peak	35.53	-11.29	24.24	46	-21.76
551.86	S	Peak	39.83	-6.66	33.17	46	-12.83
821.52	S	Peak	32.29	-2.66	29.63	46	-16.37
935.98	S	Peak	33.41	-1.66	31.75	46	-14.25

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Operation Mode : 802.11a Test Date : 2017/2/17
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Penny
 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
99.84	S	Peak	47.44	-17.77	29.67	43.5	-13.83
146.40	S	Peak	39.94	-16.45	23.49	43.5	-20.01
321.00	S	Peak	38.80	-12.27	26.52	46	-19.48
637.22	S	Peak	34.00	-5.08	28.91	46	-17.09
789.51	S	Peak	32.93	-4.18	28.75	46	-17.25
932.10	S	Peak	34.91	-1.72	33.19	46	-12.81

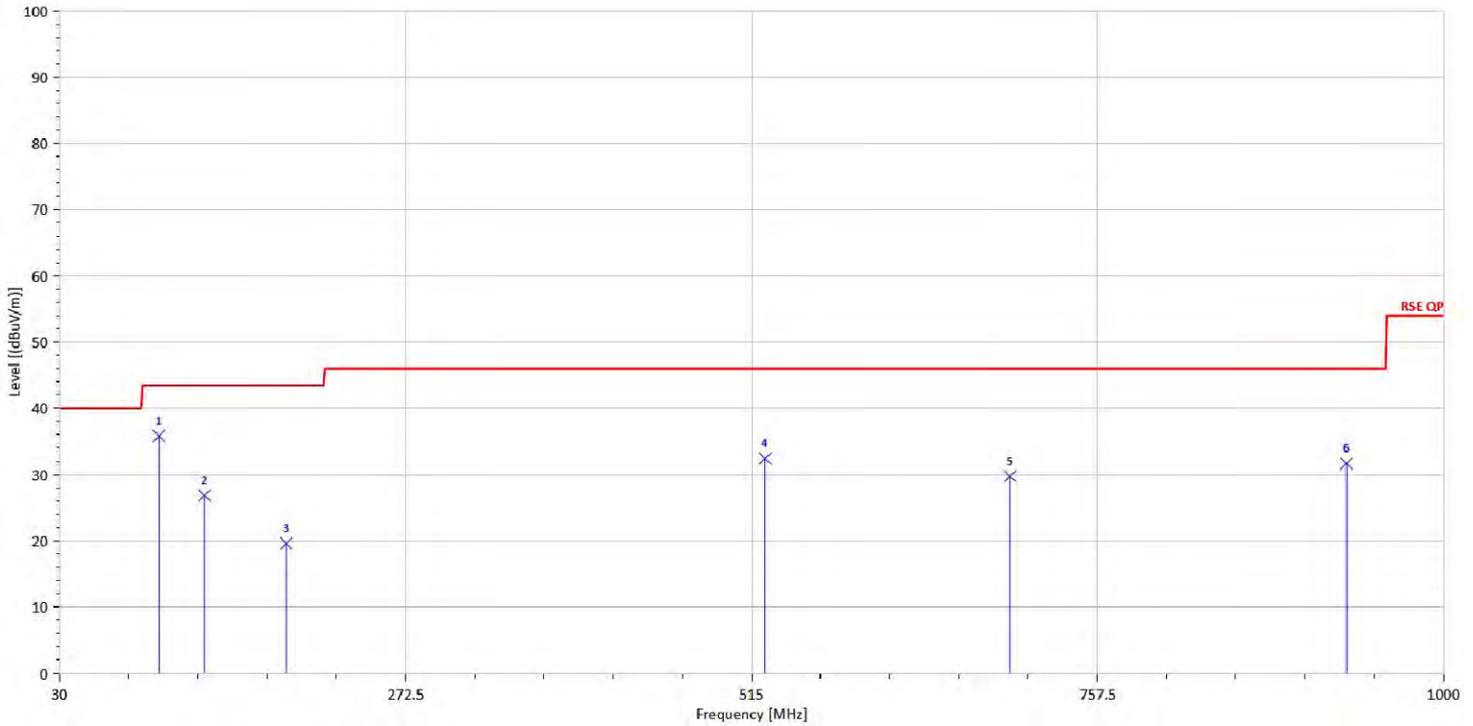
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802.11a, 5470~5725 MHz

Operation Mode :	802.11a	Test Date :	2017/2/17
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



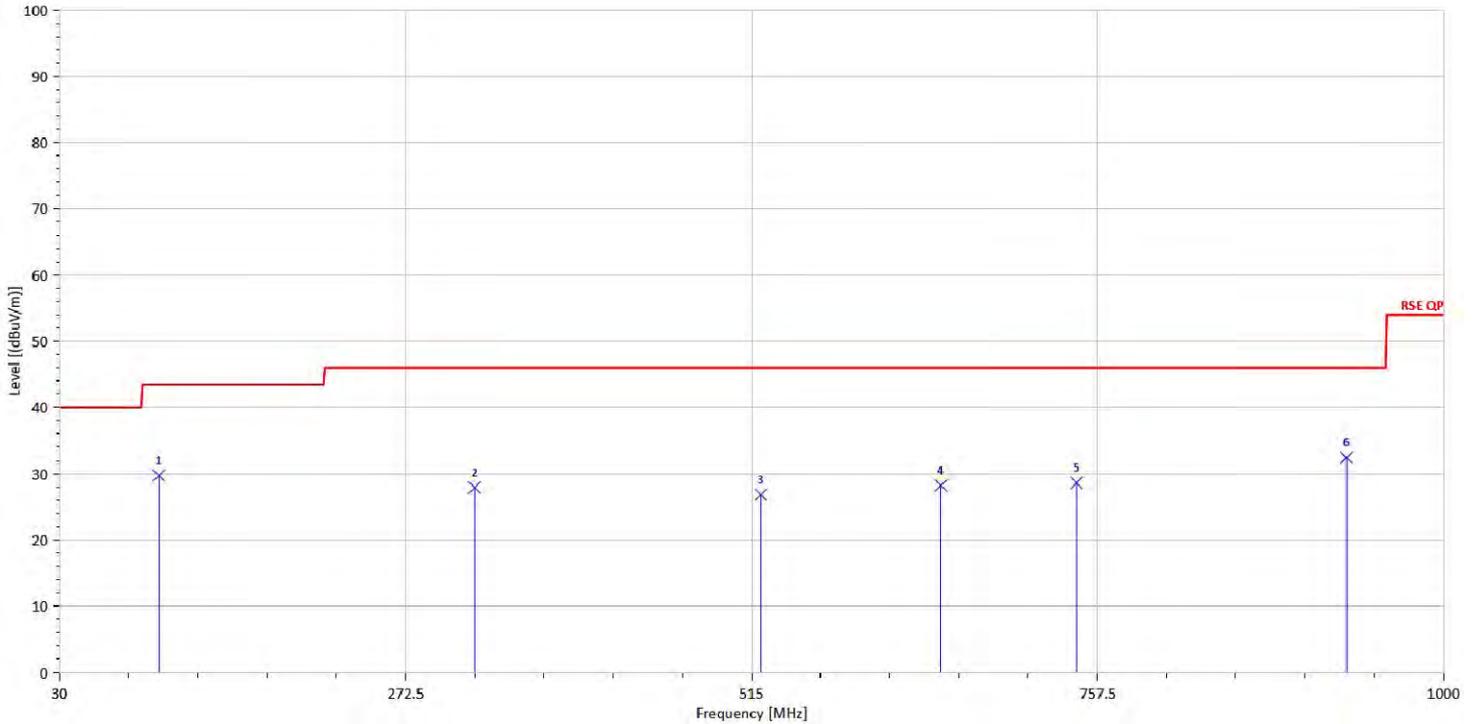
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
99.84	S	Peak	53.59	-17.77	35.82	43.5	-7.68
131.85	S	Peak	42.56	-15.71	26.85	43.5	-16.65
189.08	S	Peak	37.99	-18.38	19.60	43.5	-23.90
524.70	S	Peak	39.93	-7.50	32.42	46	-13.58
696.39	S	Peak	34.85	-5.10	29.75	46	-16.25
932.10	S	Peak	33.39	-1.72	31.67	46	-14.33

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Operation Mode : 802.11a Test Date : 2017/2/17
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Penny
 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
99.84	S	Peak	47.50	-17.77	29.73	43.5	-13.77
321.00	S	Peak	40.19	-12.27	27.92	46	-18.08
521.79	S	Peak	34.09	-7.26	26.84	46	-19.16
647.89	S	Peak	33.24	-5.02	28.22	46	-17.78
742.95	S	Peak	32.85	-4.24	28.61	46	-17.39
932.10	S	Peak	34.15	-1.72	32.43	46	-13.57

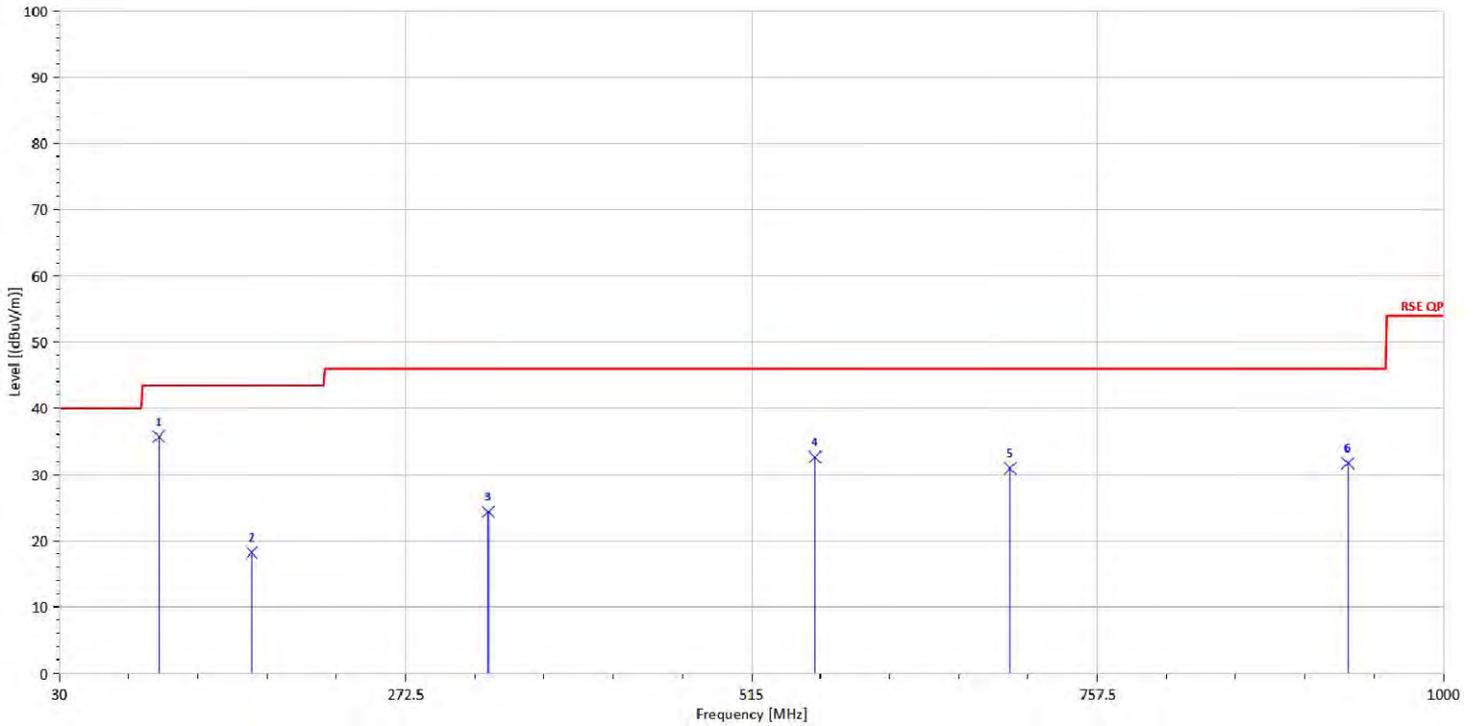
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802.11a, 5725~5850 MHz

Operation Mode :	802.11a	Test Date :	2017/2/17
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



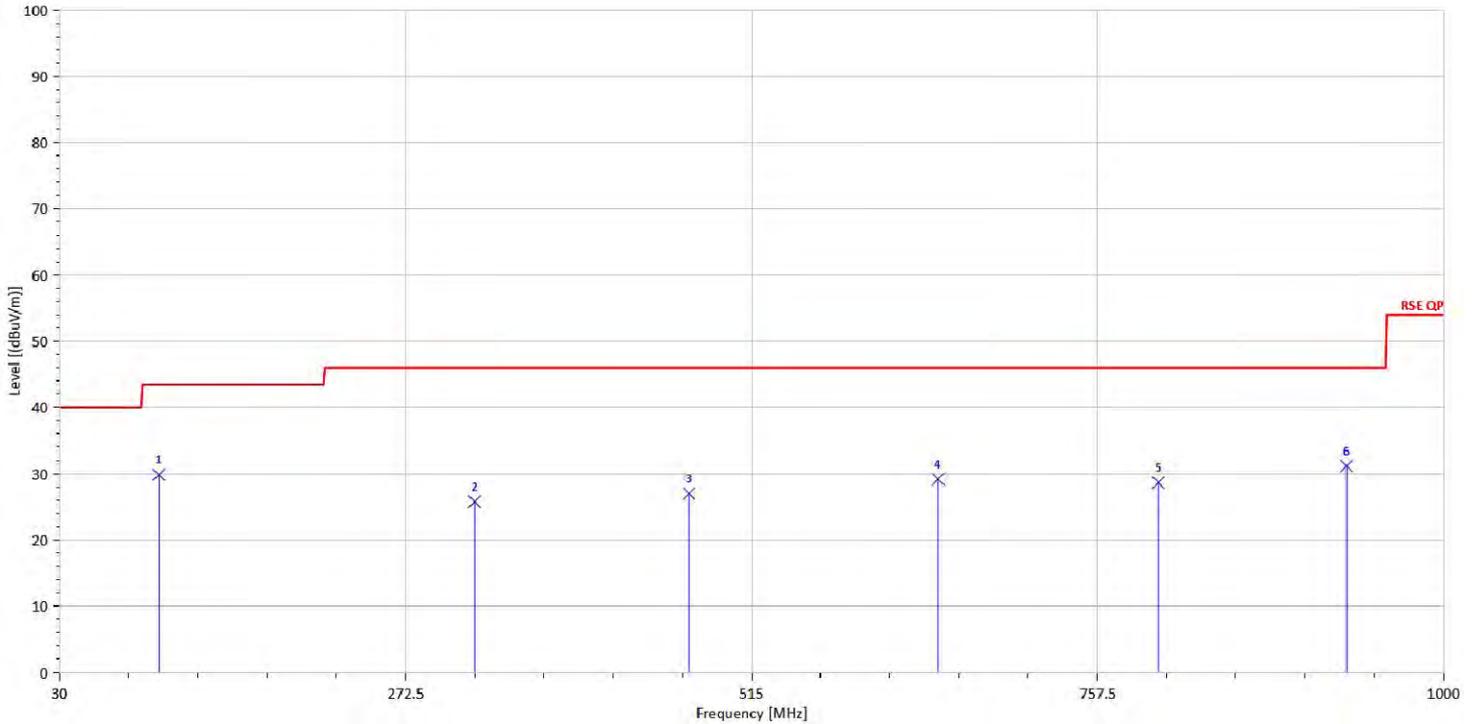
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
99.84	S	Peak	53.50	-17.77	35.73	43.5	-7.77
164.83	S	Peak	36.01	-17.78	18.23	43.5	-25.27
330.70	S	Peak	36.43	-12.06	24.38	46	-21.62
559.62	S	Peak	39.37	-6.73	32.63	46	-13.37
696.39	S	Peak	36.04	-5.10	30.94	46	-15.06
933.07	S	Peak	33.36	-1.66	31.70	46	-14.30

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Operation Mode : 802.11a Test Date : 2017/2/17
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Penny
 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
99.84	S	Peak	47.61	-17.77	29.84	43.5	-13.66
321.00	S	Peak	38.06	-12.27	25.78	46	-20.22
471.35	S	Peak	34.80	-7.81	26.99	46	-19.01
645.95	S	Peak	33.96	-4.79	29.17	46	-16.83
800.18	S	Peak	32.22	-3.56	28.66	46	-17.34
932.10	S	Peak	32.88	-1.72	31.16	46	-14.84

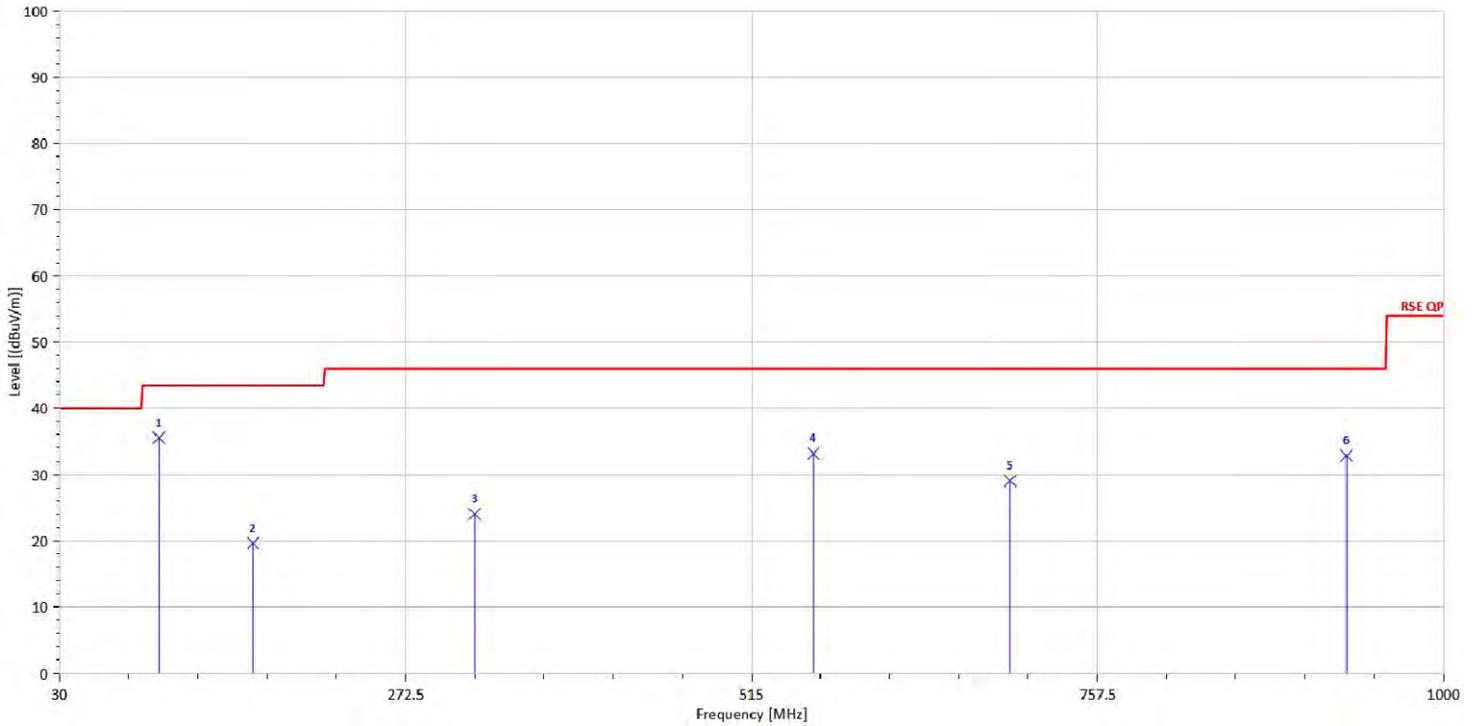
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802.11ac VHT80, 5150~5250 MHz

Operation Mode :	802.11ac80	Test Date :	2017/2/17
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



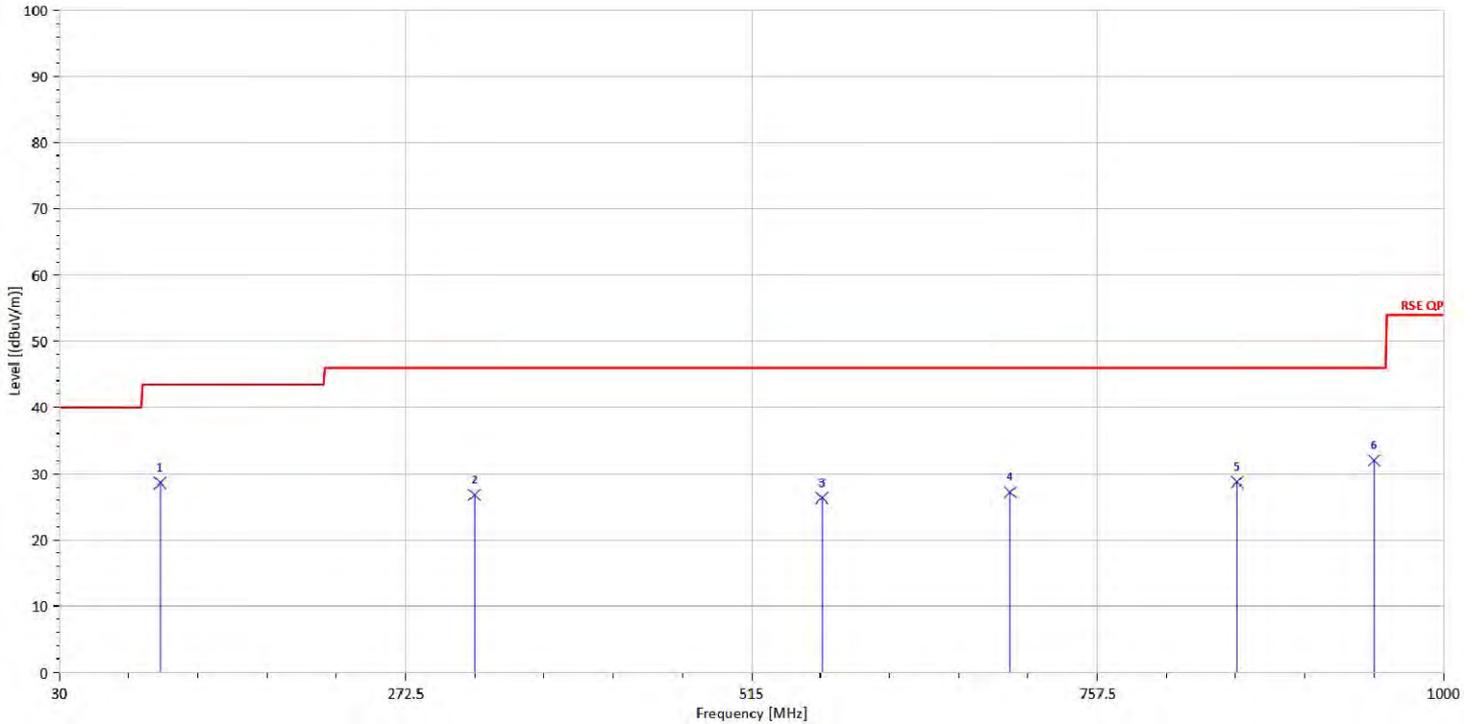
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
99.84	S	Peak	53.33	-17.77	35.57	43.5	-7.93
165.80	S	Peak	37.58	-17.92	19.66	43.5	-23.84
321.00	S	Peak	36.31	-12.27	24.03	46	-21.97
558.65	S	Peak	39.93	-6.78	33.16	46	-12.84
696.39	S	Peak	34.17	-5.10	29.07	46	-16.93
932.10	S	Peak	34.58	-1.72	32.85	46	-13.15

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Operation Mode : 802.11ac80 Test Date : 2017/2/17
 Fundamental Frequency : 5210 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Penny
 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
100.81	S	Peak	46.26	-17.64	28.62	43.5	-14.88
321.00	S	Peak	39.08	-12.27	26.81	46	-19.19
564.47	S	Peak	32.85	-6.50	26.35	46	-19.65
696.39	S	Peak	32.31	-5.10	27.21	46	-18.79
855.47	S	Peak	31.71	-2.97	28.74	46	-17.26
951.50	S	Peak	34.11	-2.11	32.00	46	-14.00

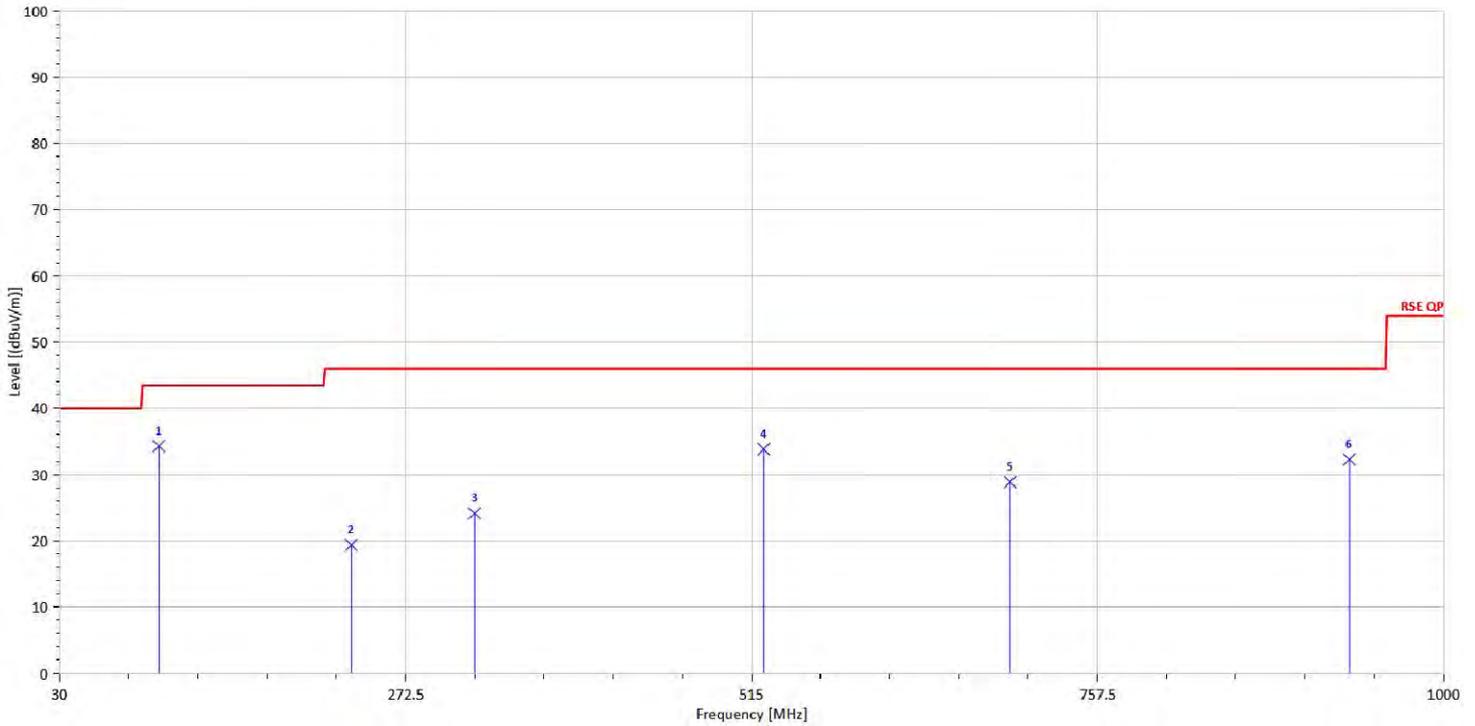
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802.11ac VHT80, 5470~5725 MHz

Operation Mode :	802.11ac80	Test Date :	2017/2/17
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



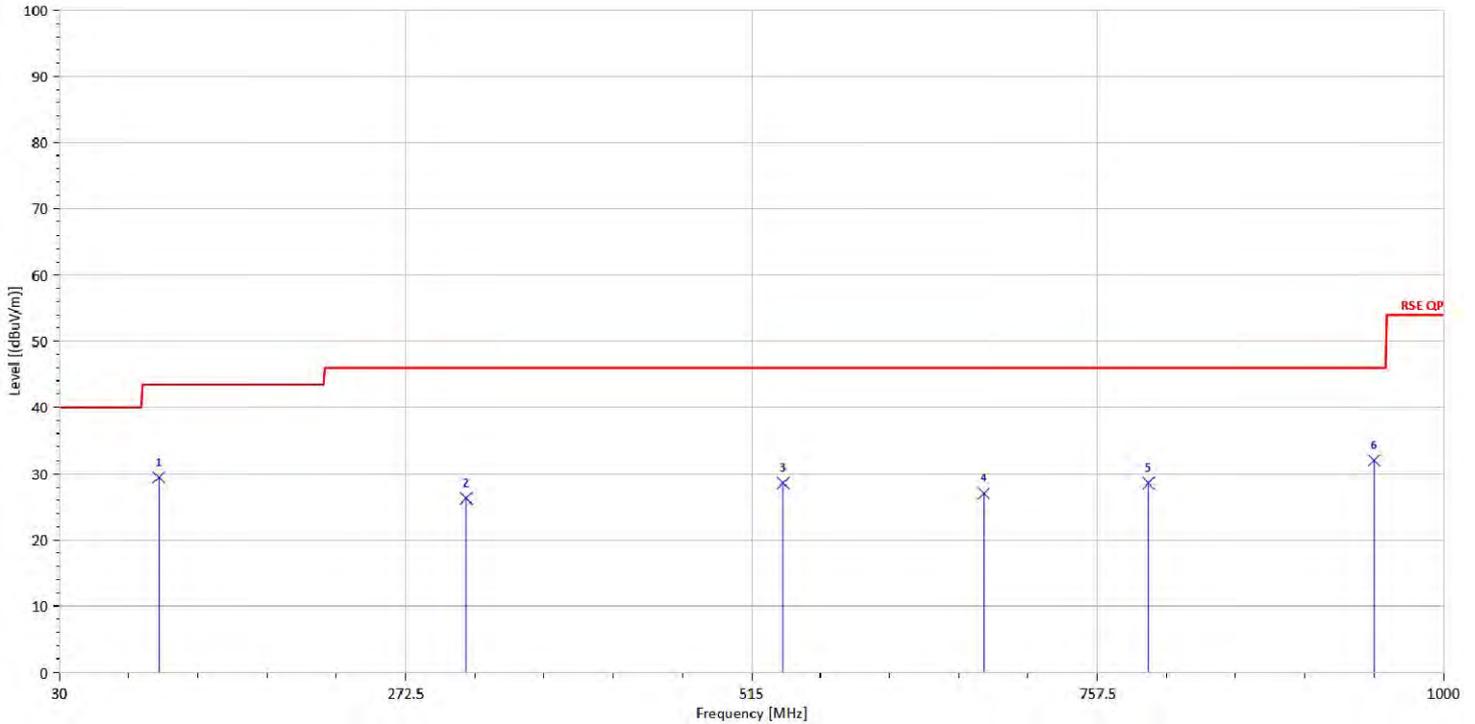
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
99.84	S	Peak	52.06	-17.77	34.29	43.5	-9.21
234.67	S	Peak	35.25	-15.87	19.38	46	-26.62
321.00	S	Peak	36.40	-12.27	24.13	46	-21.87
523.73	S	Peak	41.25	-7.41	33.84	46	-12.16
696.39	S	Peak	33.97	-5.10	28.87	46	-17.13
934.04	S	Peak	33.87	-1.58	32.29	46	-13.71

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Operation Mode : 802.11ac80 Test Date : 2017/2/17
 Fundamental Frequency : 5610 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Penny
 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
99.84	S	Peak	47.19	-17.77	29.43	43.5	-14.07
315.18	S	Peak	38.56	-12.28	26.28	46	-19.72
537.31	S	Peak	35.82	-7.24	28.58	46	-17.42
677.96	S	Peak	32.24	-5.20	27.03	46	-18.97
793.39	S	Peak	32.77	-4.17	28.60	46	-17.40
951.50	S	Peak	34.11	-2.11	32.00	46	-14.00

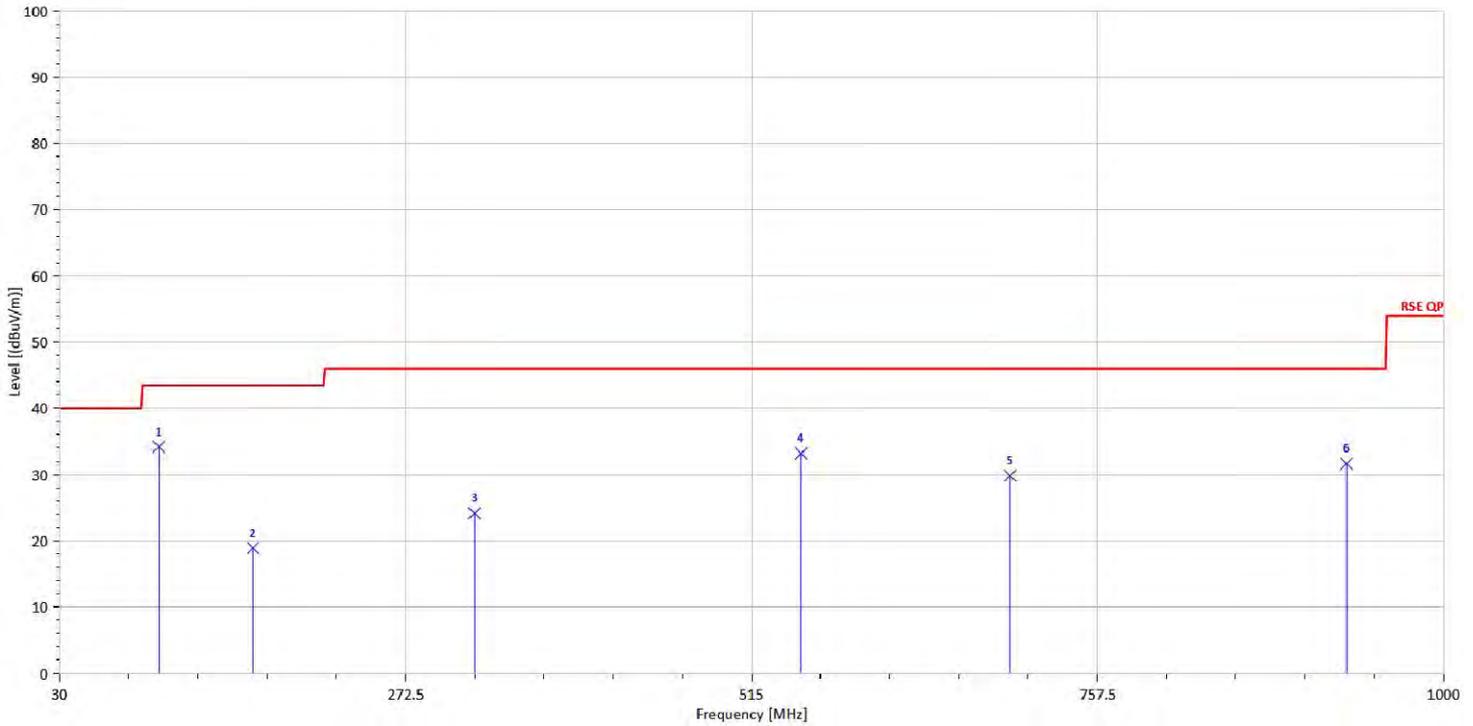
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802.11ac VHT80, 5725~5850 MHz

Operation Mode :	802.11ac80	Test Date :	2017/2/17
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



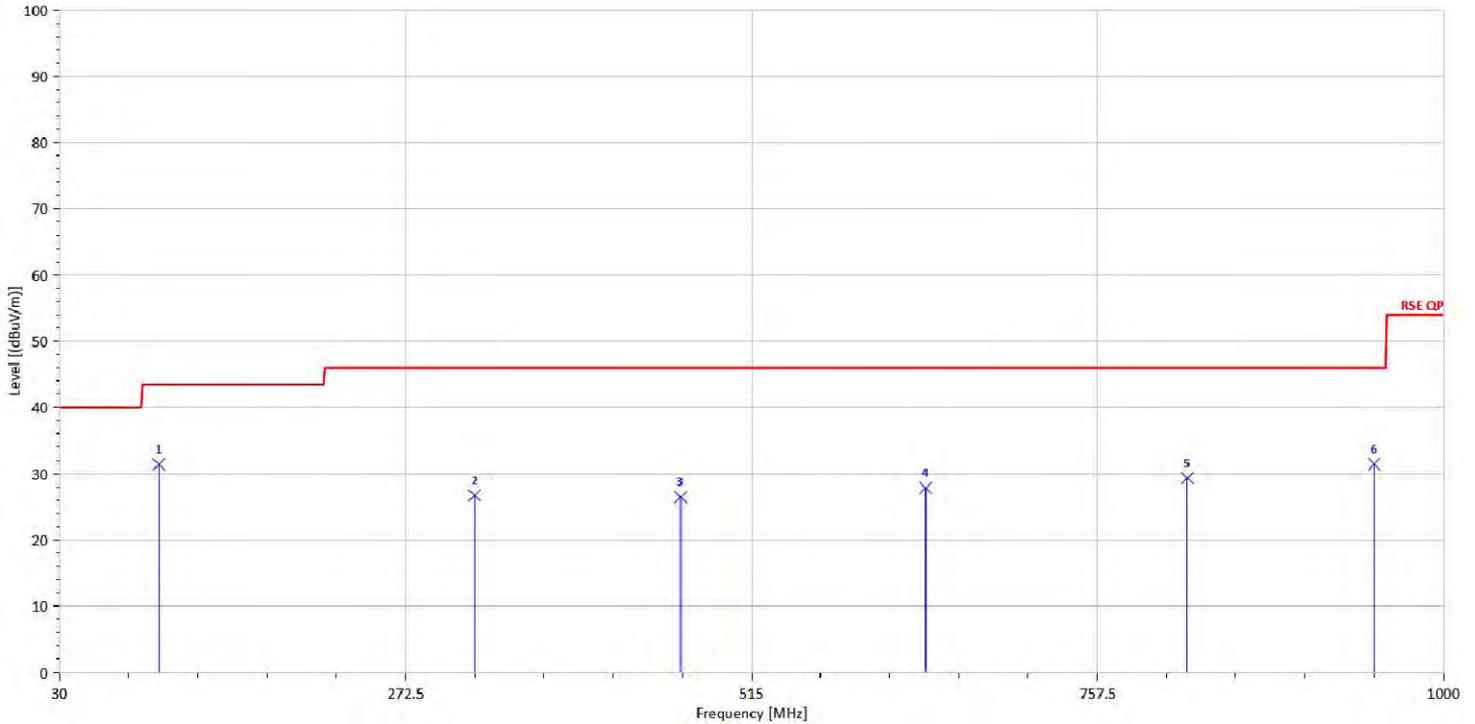
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
99.84	S	Peak	51.96	-17.77	34.19	43.5	-9.31
165.80	S	Peak	36.82	-17.92	18.90	43.5	-24.60
321.00	S	Peak	36.41	-12.27	24.14	46	-21.86
549.92	S	Peak	40.27	-7.07	33.20	46	-12.80
696.39	S	Peak	34.93	-5.10	29.83	46	-16.17
932.10	S	Peak	33.36	-1.72	31.64	46	-14.36

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Operation Mode : 802.11ac80 Test Date : 2017/2/17
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Penny
 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
99.84	S	Peak	49.17	-17.77	31.40	43.5	-12.10
321.00	S	Peak	38.99	-12.27	26.72	46	-19.28
465.53	S	Peak	34.50	-8.04	26.46	46	-19.54
637.22	S	Peak	32.93	-5.08	27.84	46	-18.16
820.55	S	Peak	32.19	-2.87	29.32	46	-16.68
951.50	S	Peak	33.56	-2.11	31.44	46	-14.56

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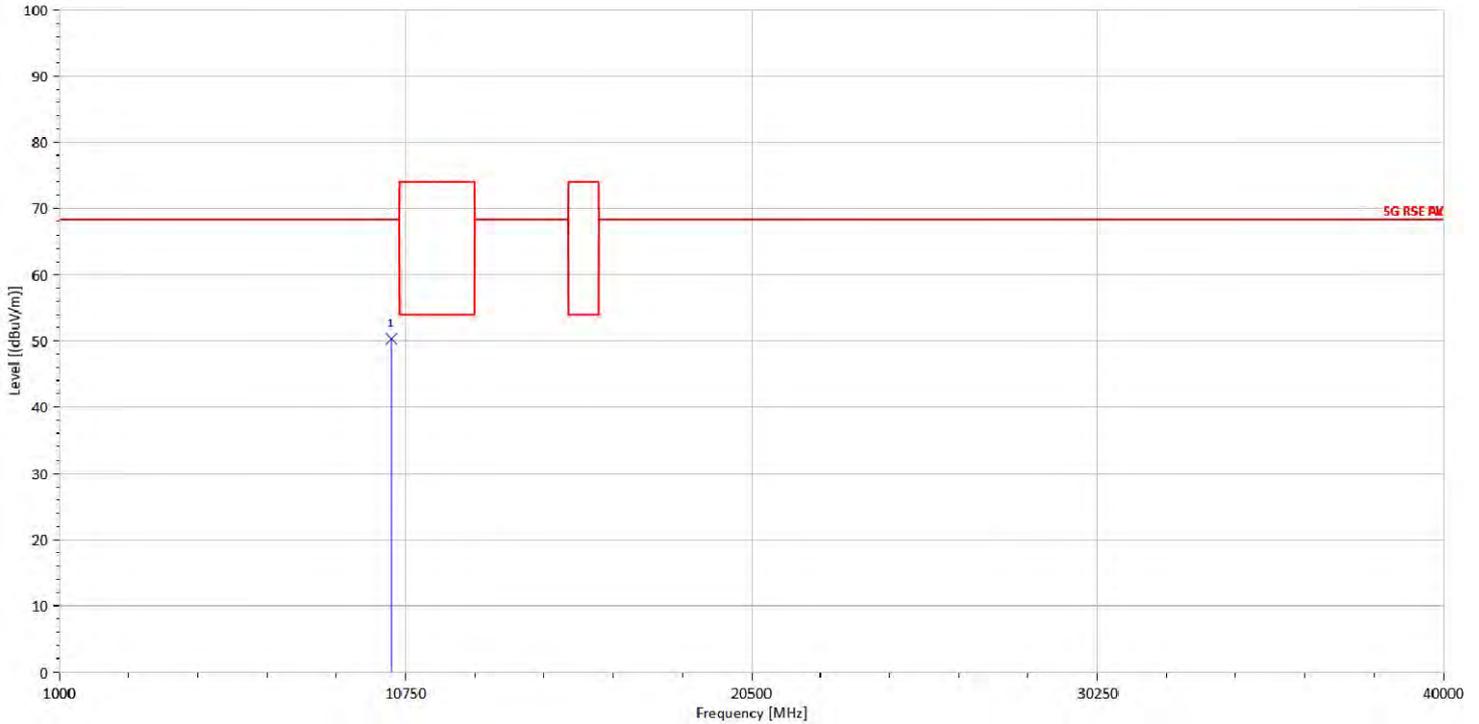
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Above 1GHz Worst-Case Data:

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

Operation Mode :	802.11a	Test Date :	2017/2/18
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



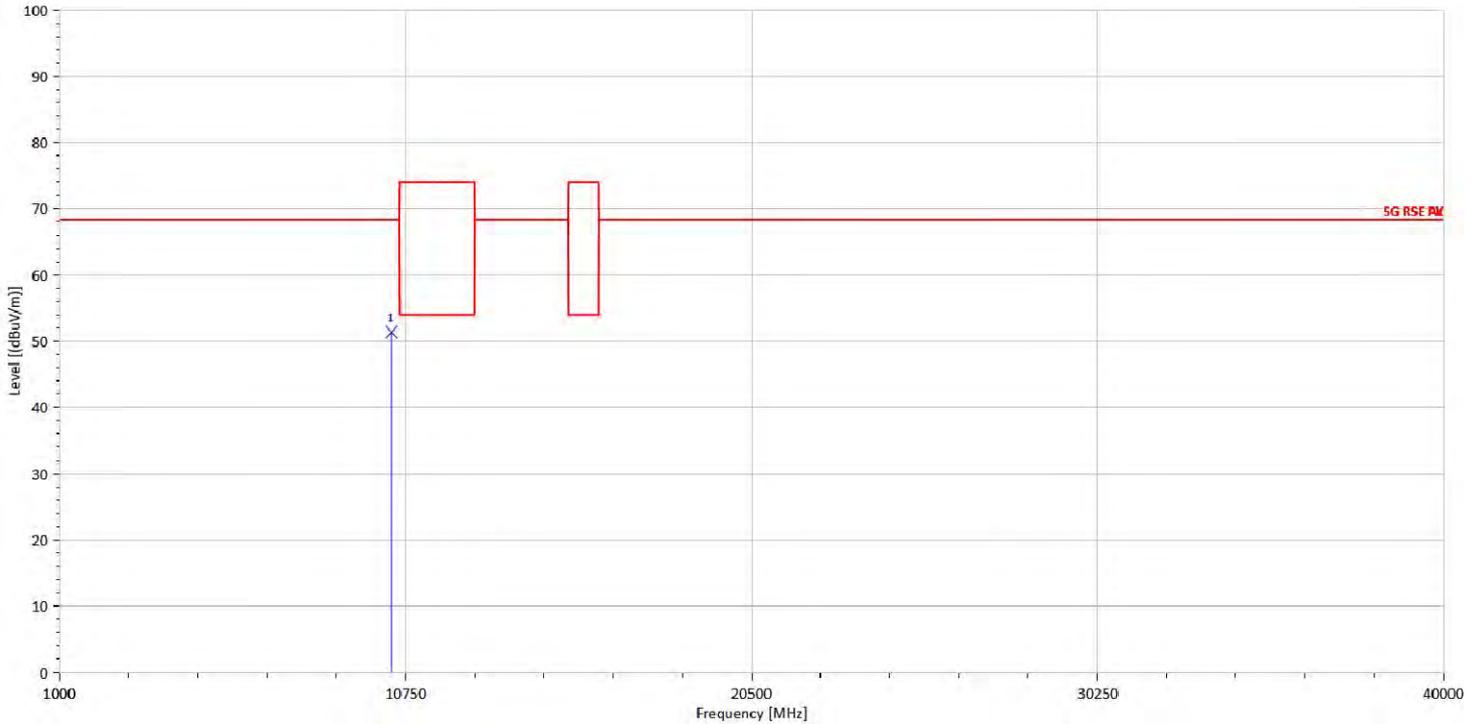
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10360.00	H	Peak	30.14	20.18	50.32	68.3	-17.98

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Operation Mode : 802.11a Test Date : 2017/2/18
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



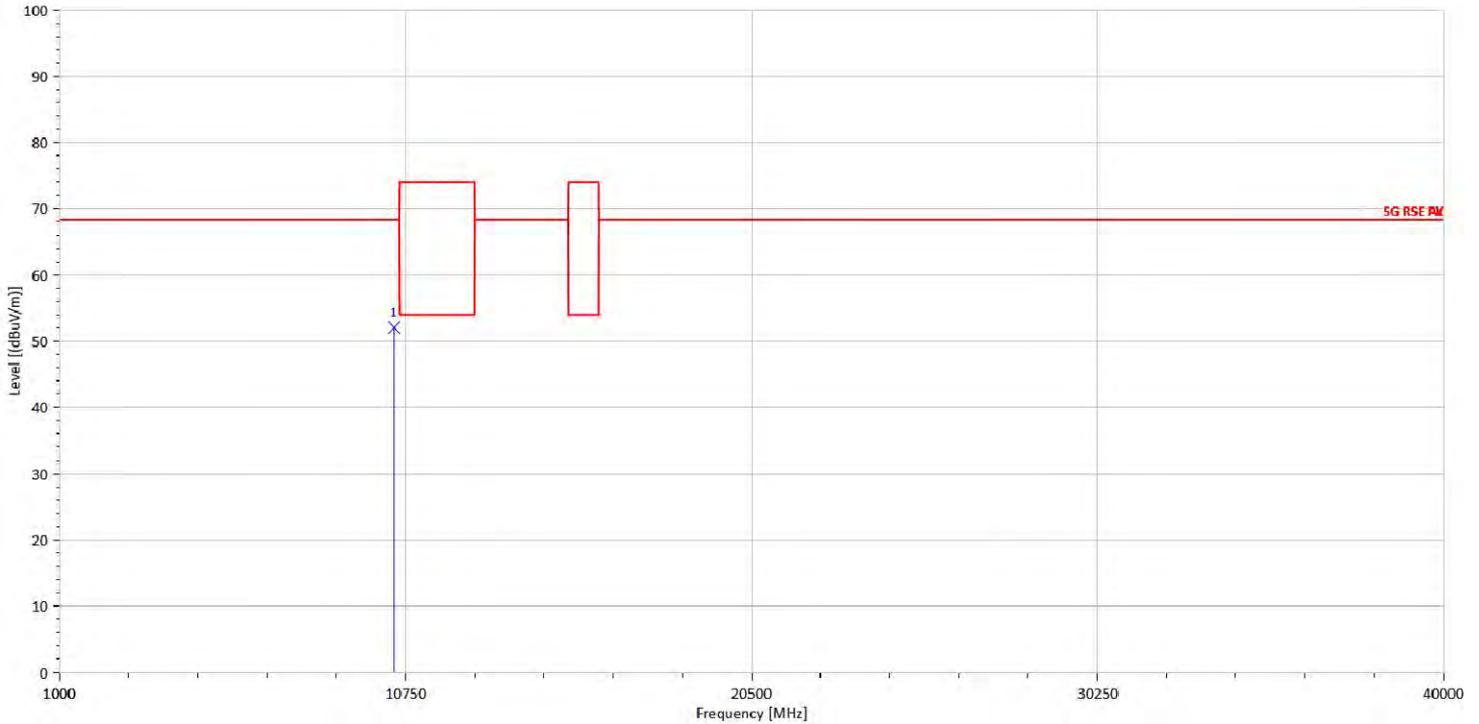
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10360.00	H	Peak	31.19	20.18	51.37	68.3	-16.93

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Operation Mode : 802.11a Test Date : 2017/2/18
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



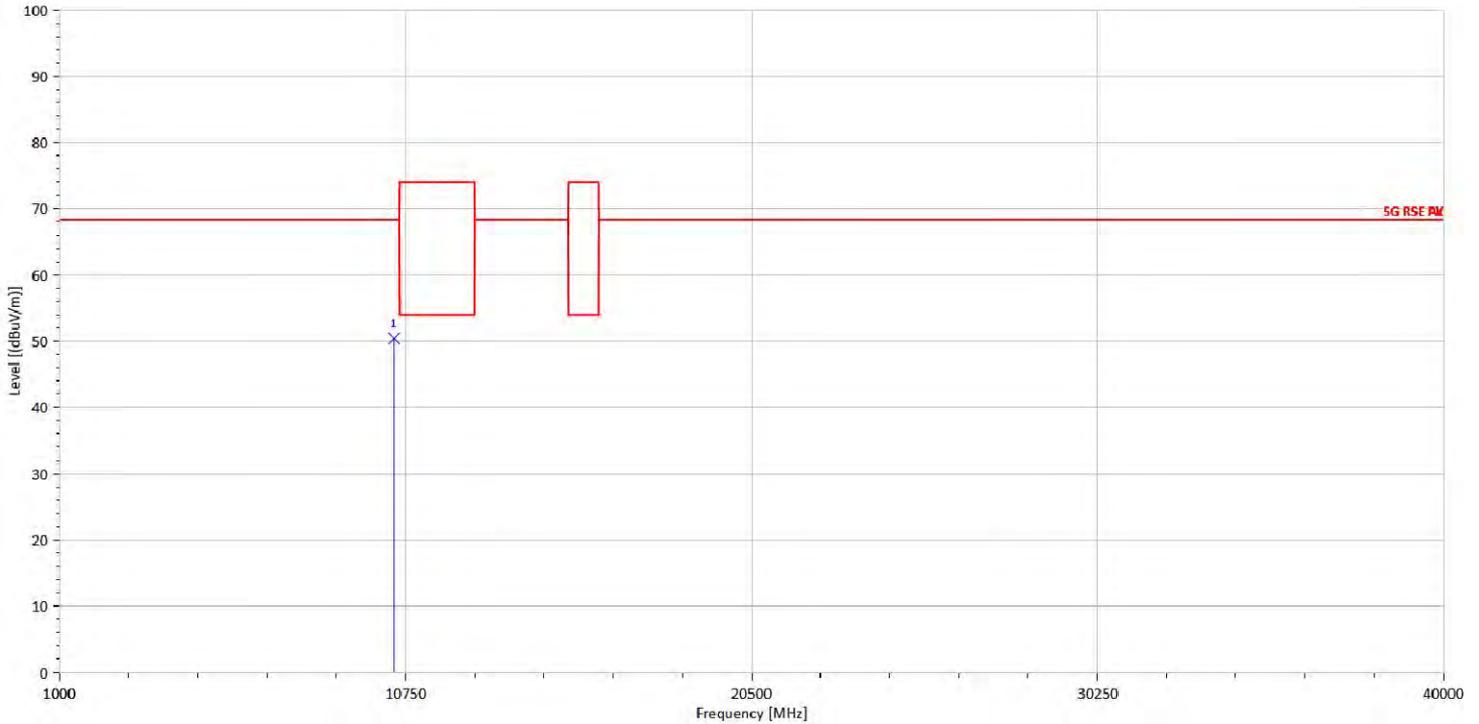
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10440.00	H	Peak	31.76	20.29	52.06	68.3	-16.24

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Operation Mode : 802.11a Test Date : 2017/2/18
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



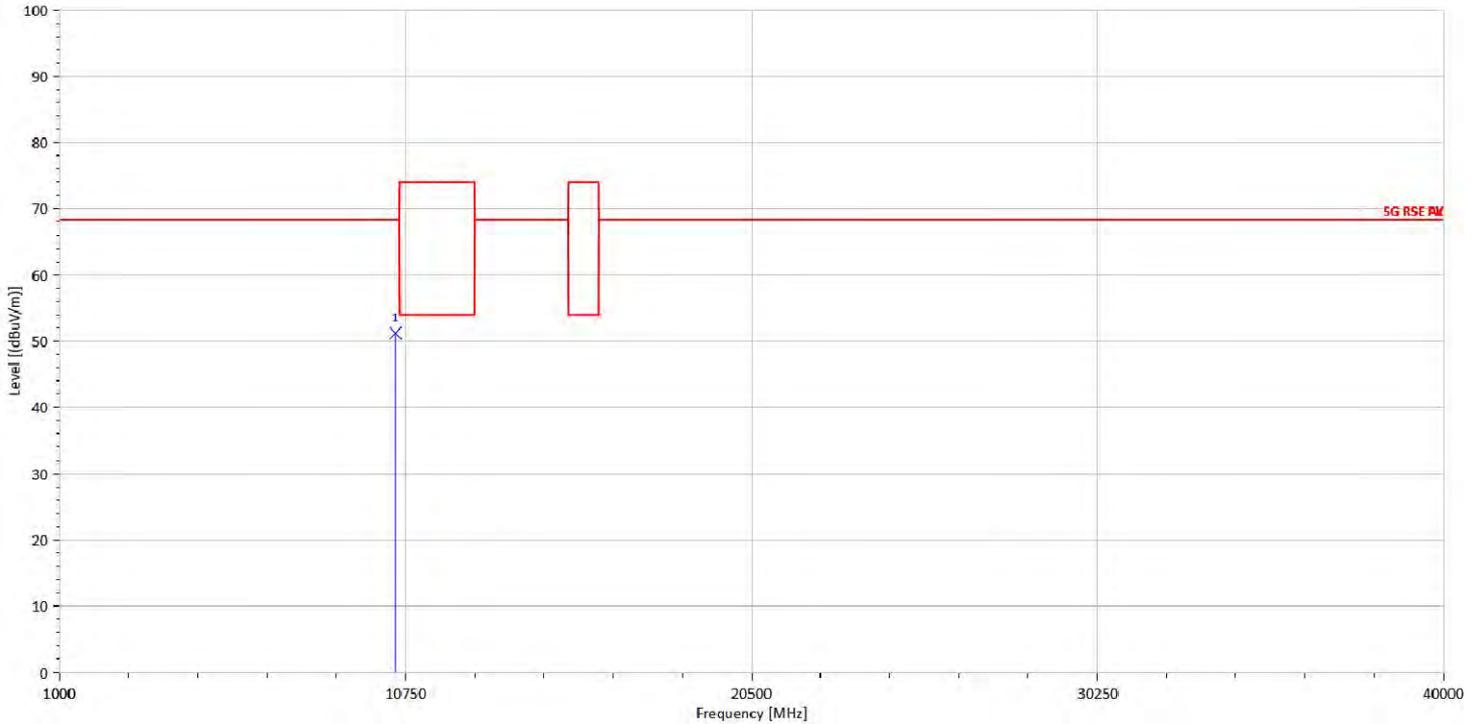
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10440.00	H	Peak	30.12	20.29	50.41	68.3	-17.89

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Operation Mode :	802.11a	Test Date :	2017/2/18
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



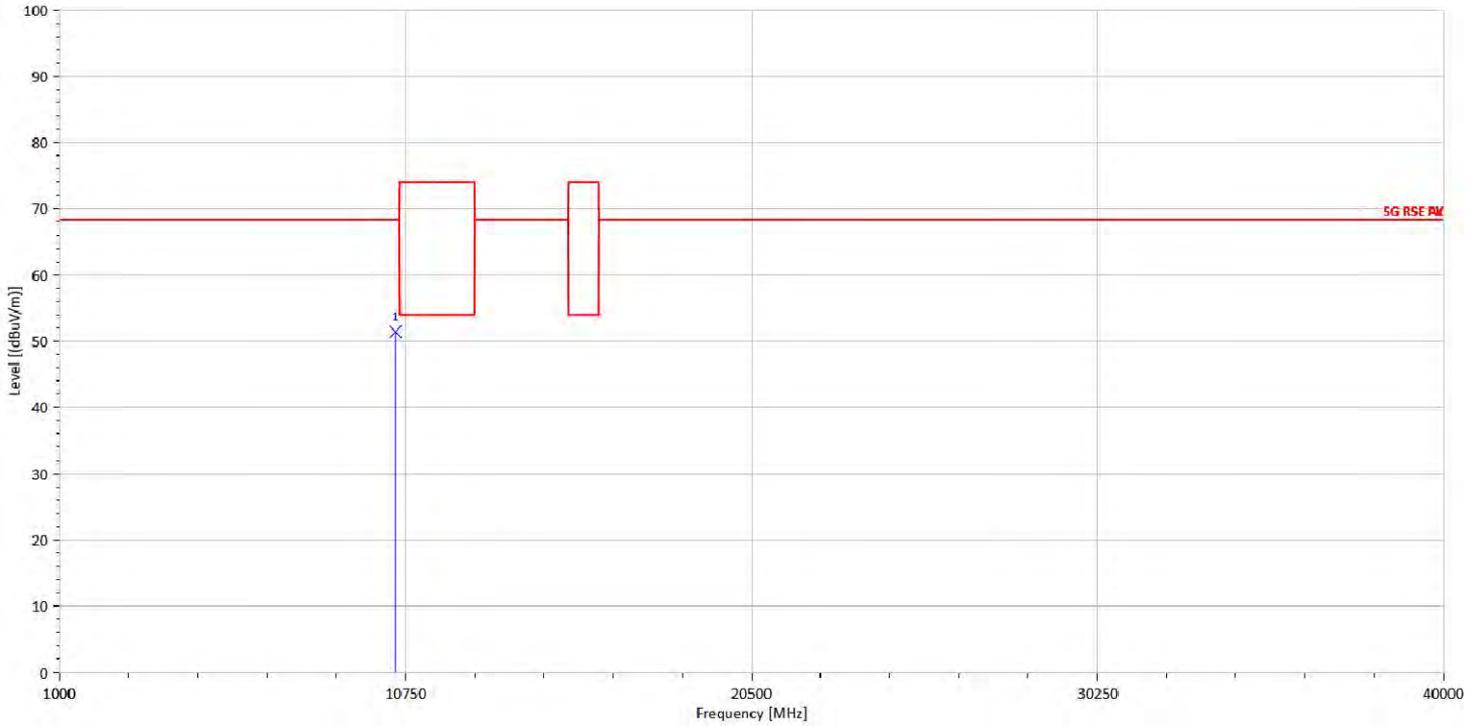
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10480.00	H	Peak	30.55	20.68	51.23	68.3	-17.07

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Operation Mode :	802.11a	Test Date :	2017/2/18
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Penny
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
10480.00	H	Peak	30.74	20.68	51.42	68.3	-16.88

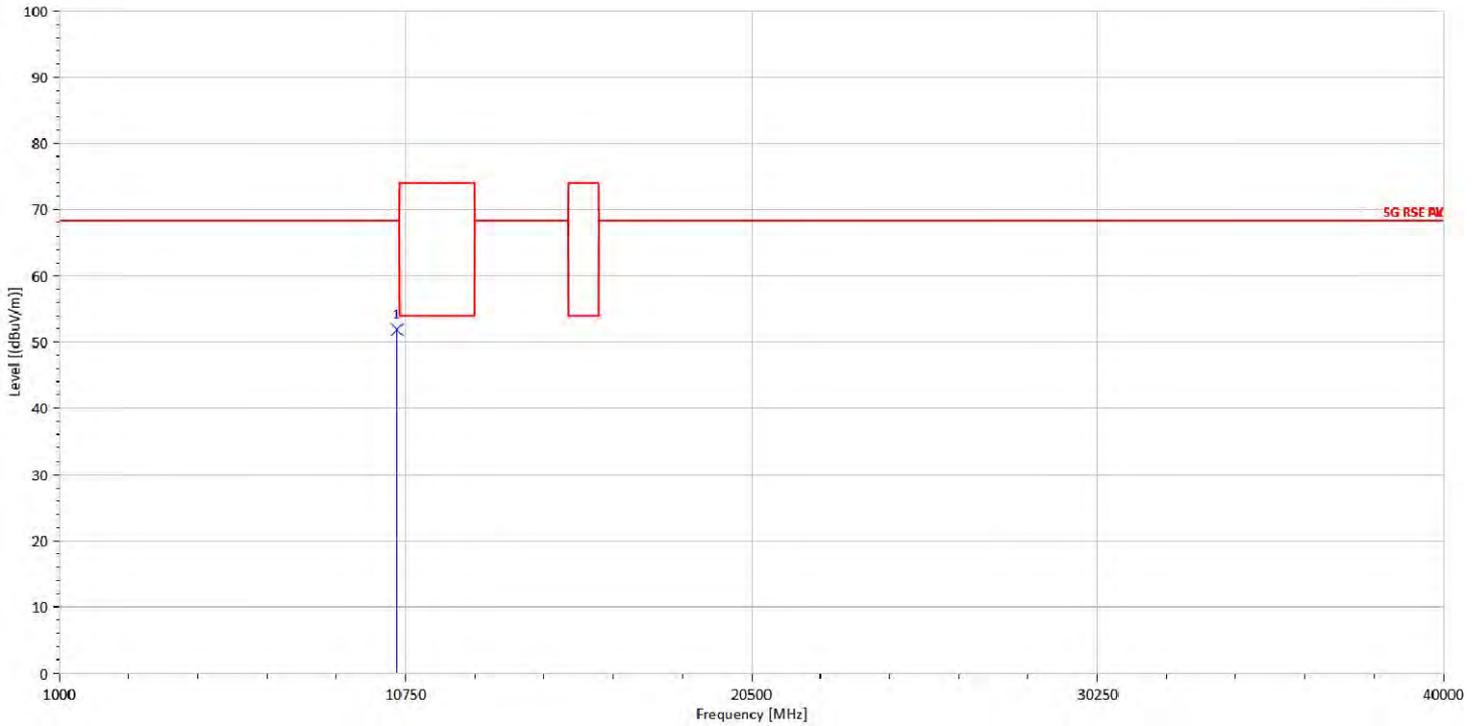
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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode :	802.11a	Test Date :	2017/2/18
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



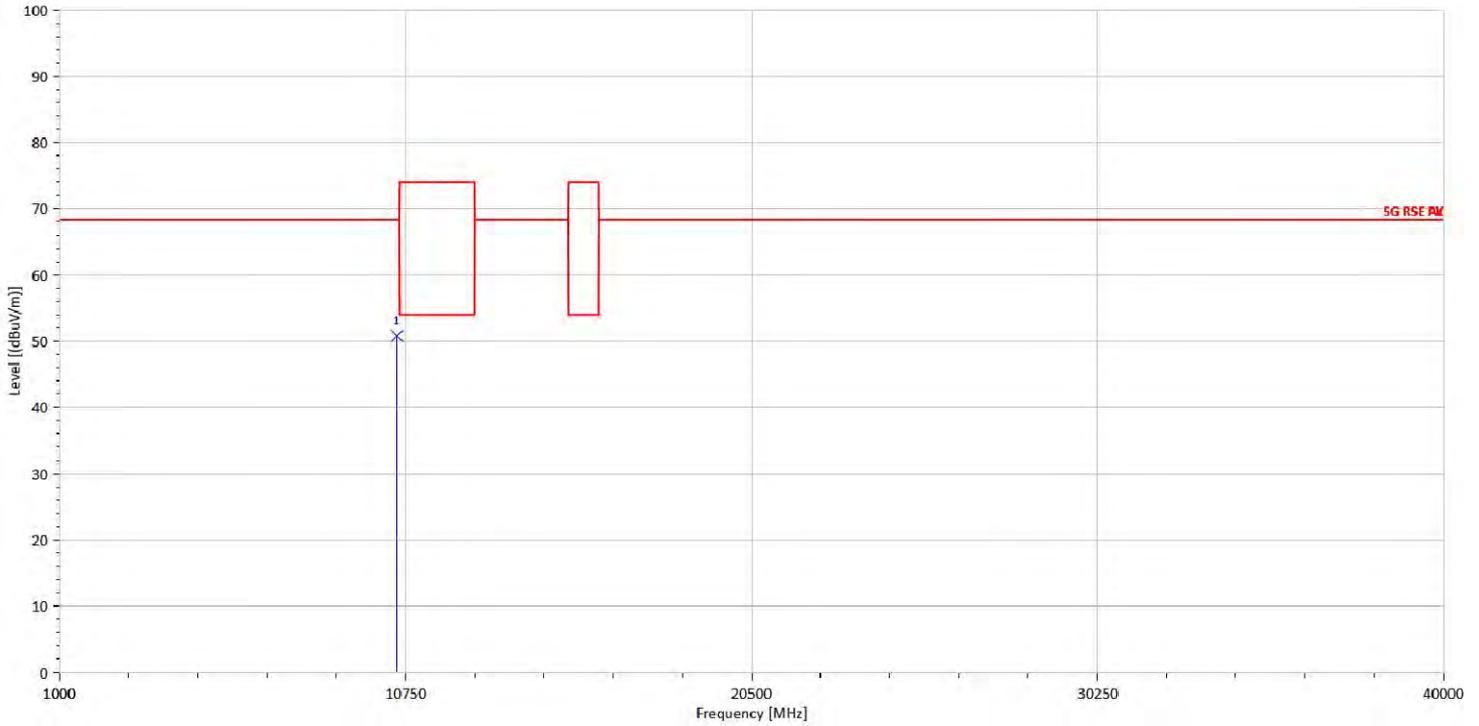
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10520.00	H	Peak	31.78	20.10	51.88	68.3	-16.42

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Operation Mode : 802.11a Test Date : 2017/2/18
 Fundamental Frequency : 5260 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



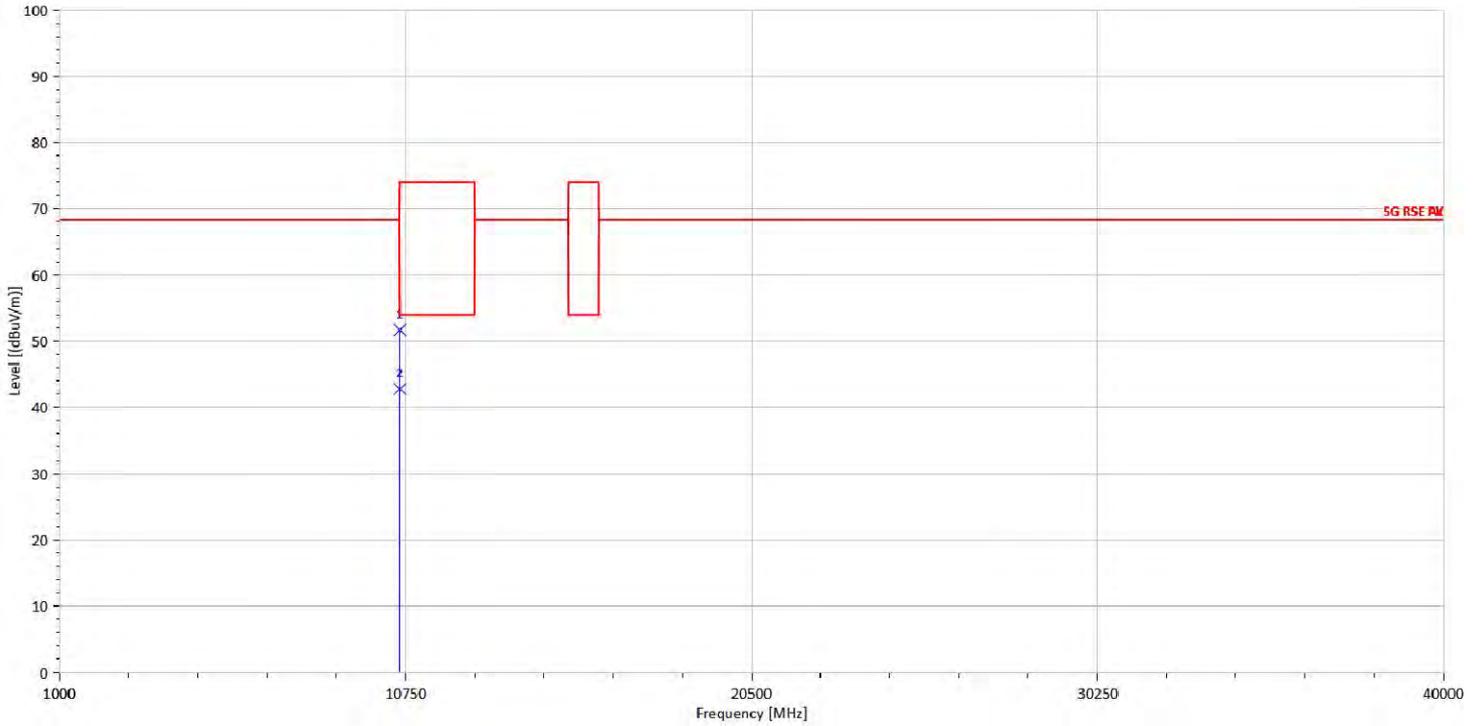
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10520.00	H	Peak	30.72	20.10	50.82	68.3	-17.48

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Operation Mode :	802.11a	Test Date :	2017/2/18
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



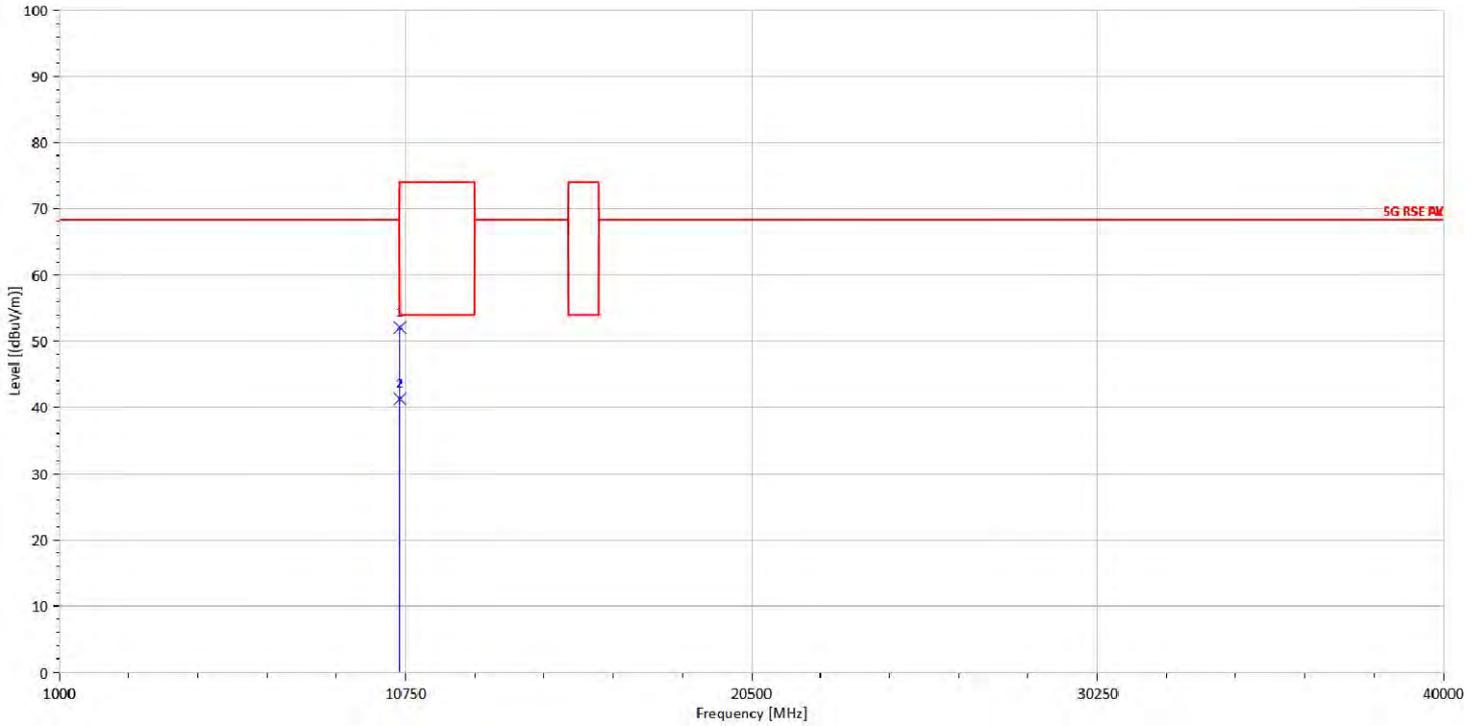
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10600.00	H	Peak	31.53	20.17	51.70	74	-22.30
10600.00	H	Average	22.64	20.17	42.81	54	-11.19

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Operation Mode : 802.11a Test Date : 2017/2/18
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



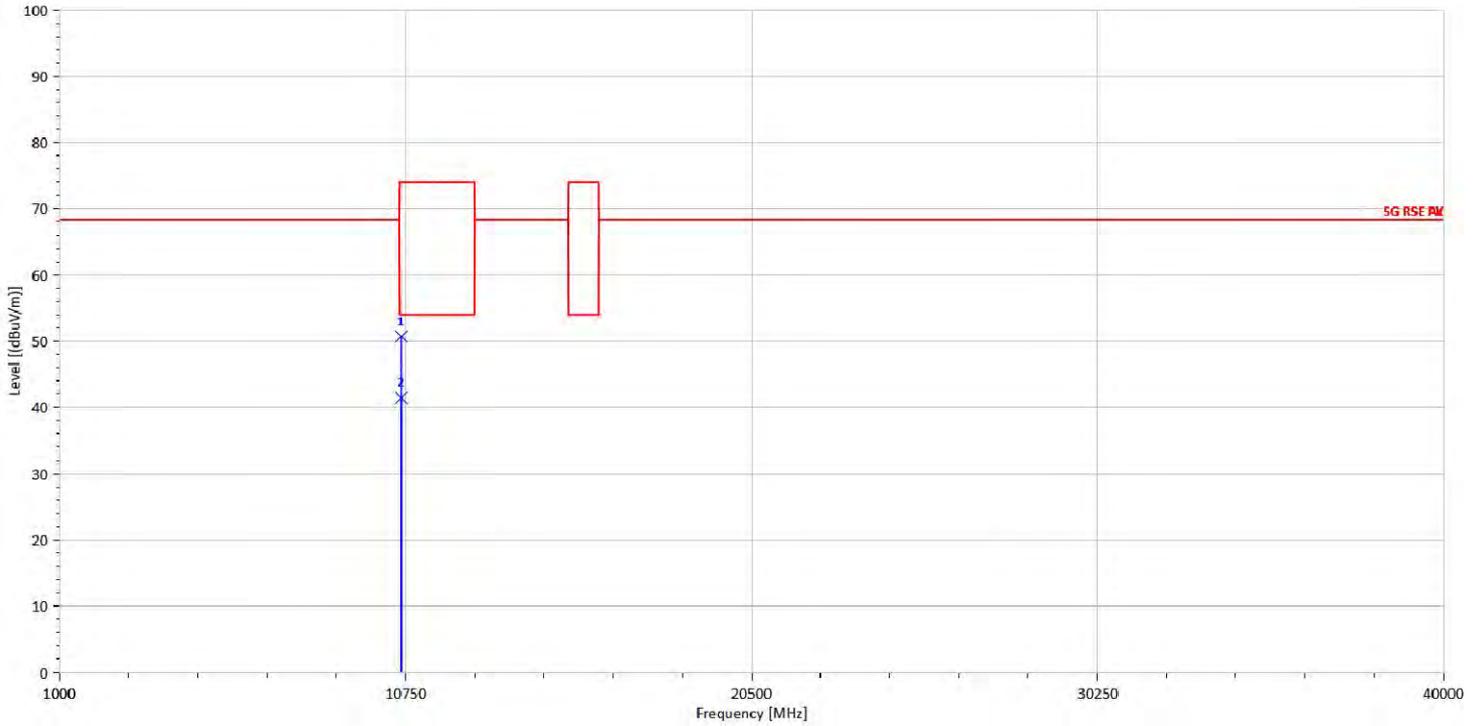
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10600.00	H	Peak	31.91	20.17	52.07	74	-21.93
10600.00	H	Average	21.13	20.17	41.30	54	-12.70

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Operation Mode :	802.11a	Test Date :	2017/2/18
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



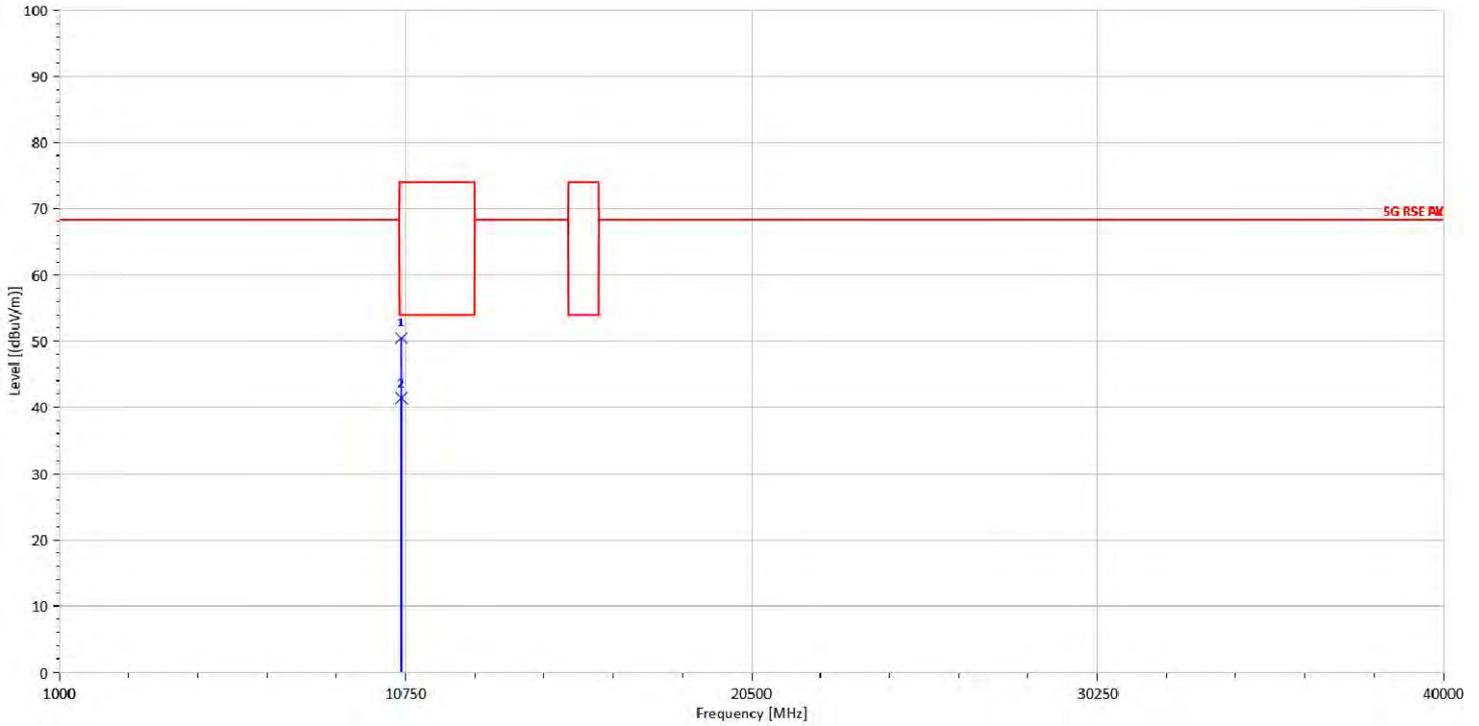
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10640.00	H	Peak	30.39	20.34	50.74	74	-23.26
10640.00	H	Average	21.09	20.34	41.43	54	-12.57

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Operation Mode : 802.11a Test Date : 2017/2/18
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	H	Peak	30.13	20.34	50.48	74	-23.52
10640.00	H	Average	21.08	20.34	41.42	54	-12.58

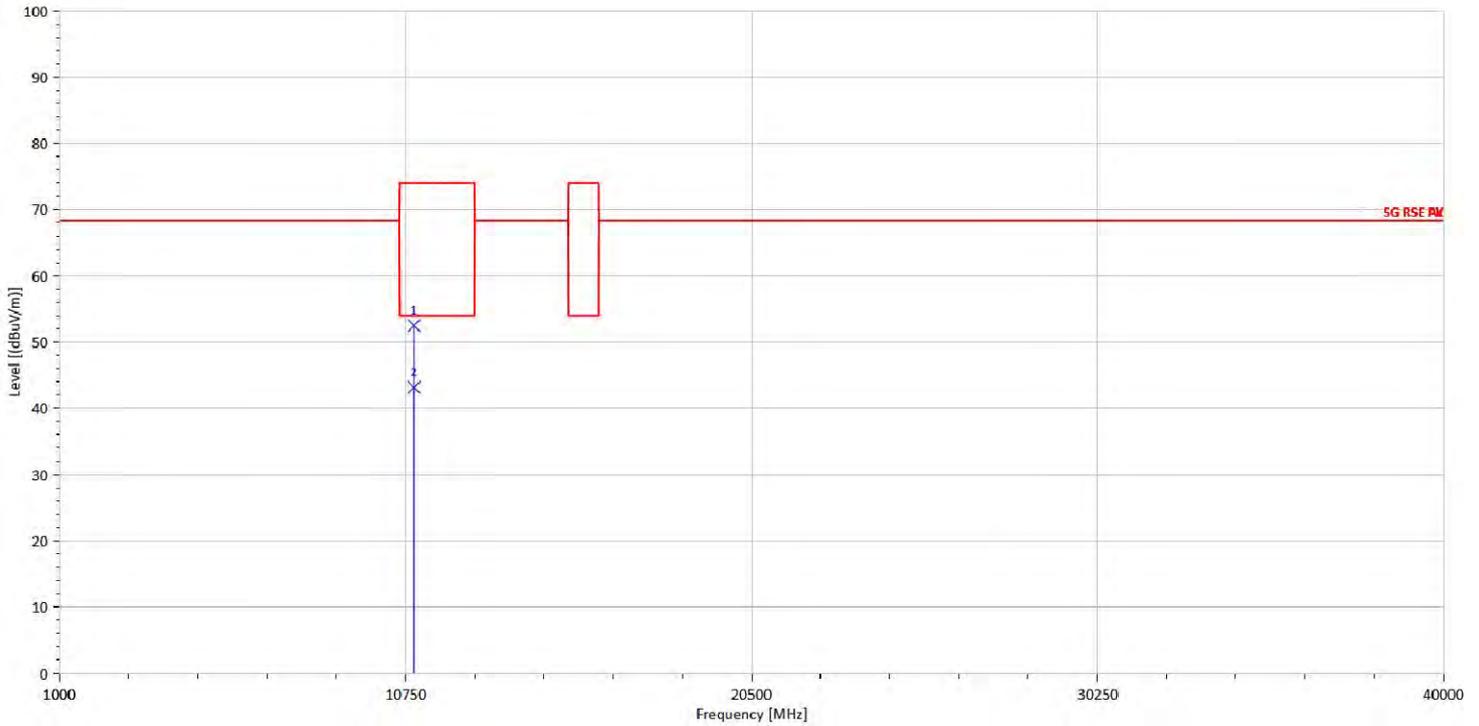
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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode :	802.11a	Test Date :	2017/2/18
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



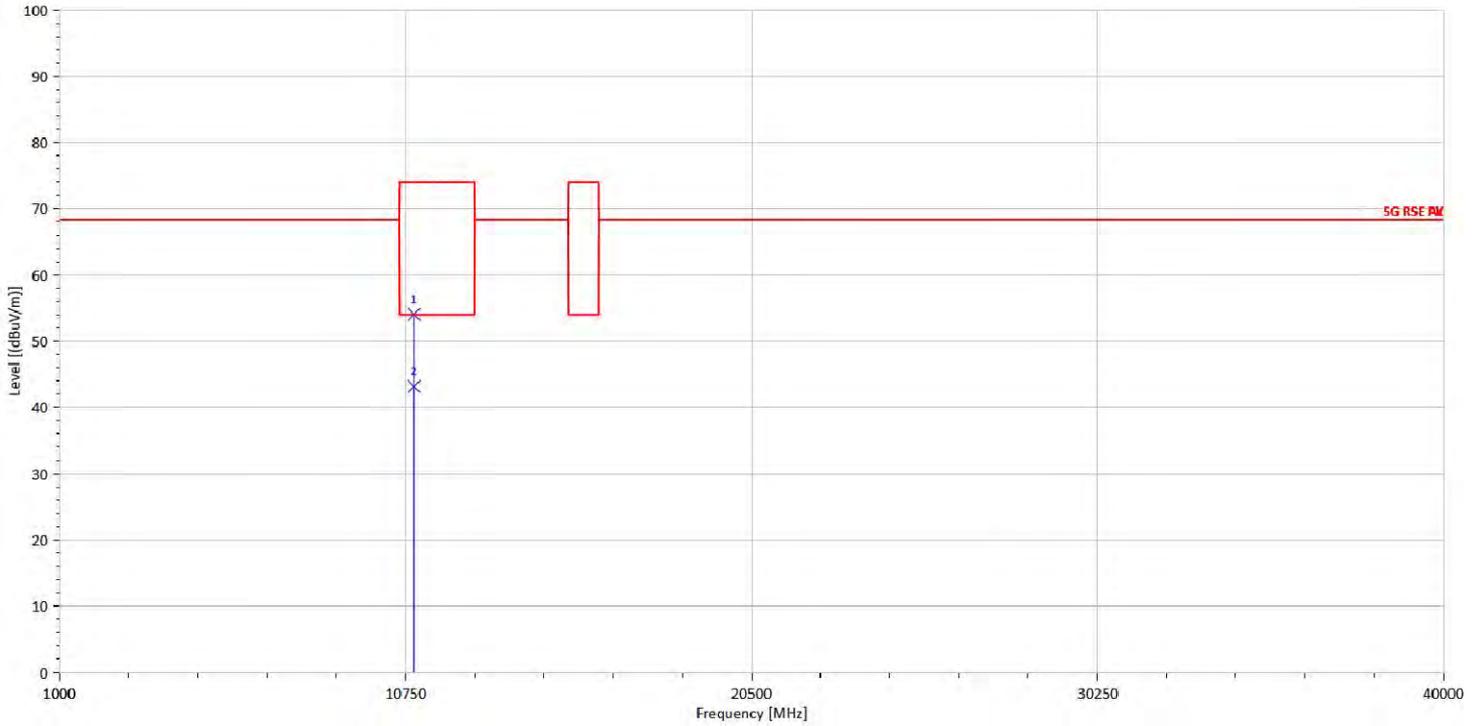
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11000.00	H	Peak	30.37	22.11	52.48	74	-21.52
11000.00	H	Average	21.06	22.11	43.17	54	-10.83

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Operation Mode : 802.11a Test Date : 2017/2/18
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



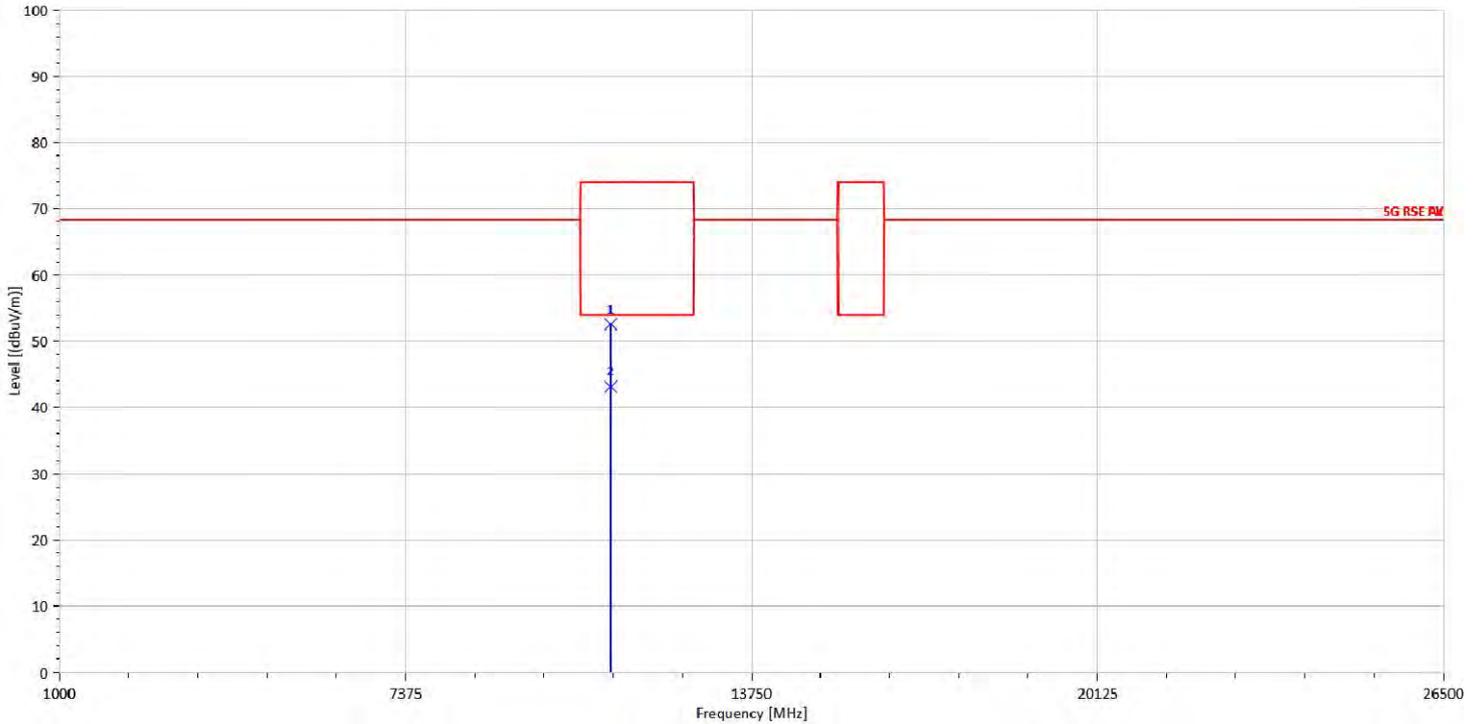
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11000.00	H	Peak	31.95	22.11	54.06	74	-19.94
11000.00	H	Average	21.07	22.11	43.18	54	-10.82

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Operation Mode : 802.11a Test Date : 2017/2/18
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



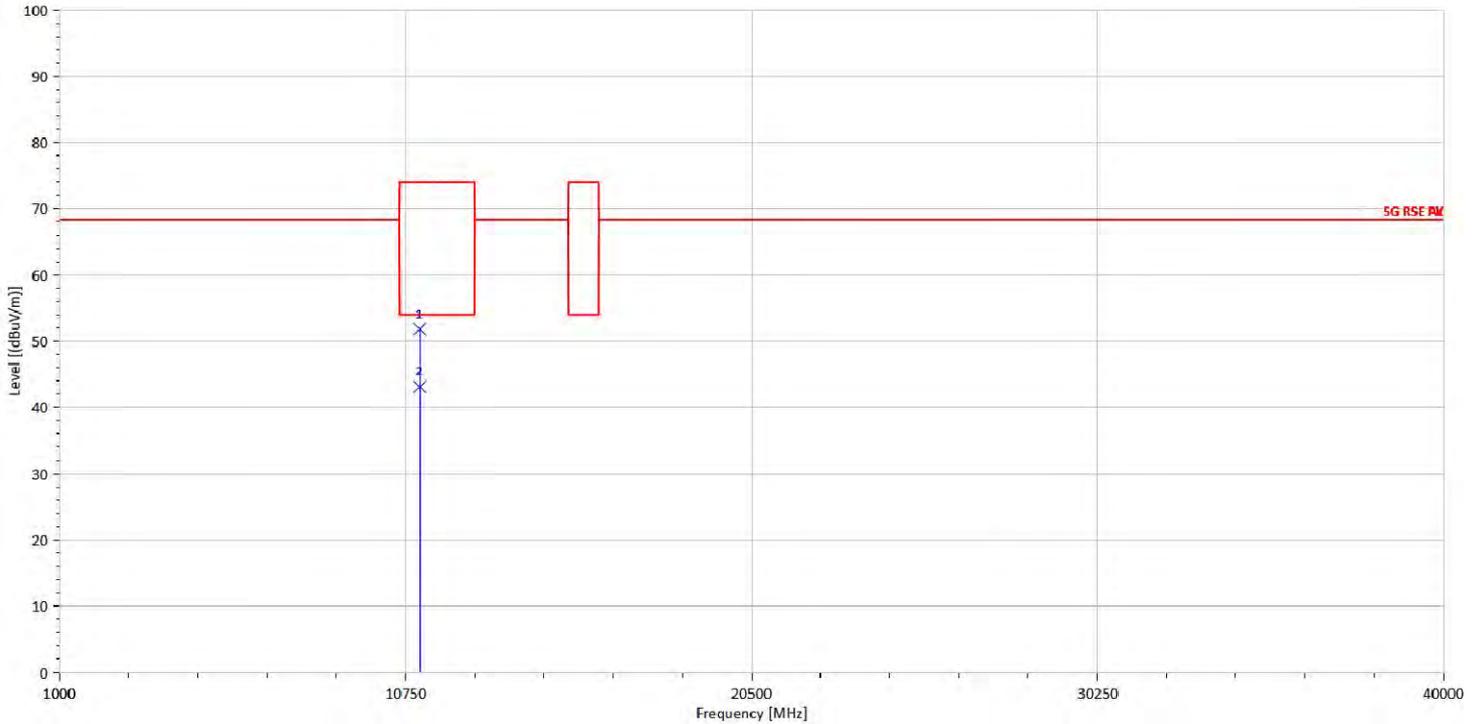
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	H	Peak	30.53	22.04	52.57	74	-21.43
11160.00	H	Average	21.10	22.04	43.14	54	-10.86

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Operation Mode : 802.11a Test Date : 2017/2/18
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



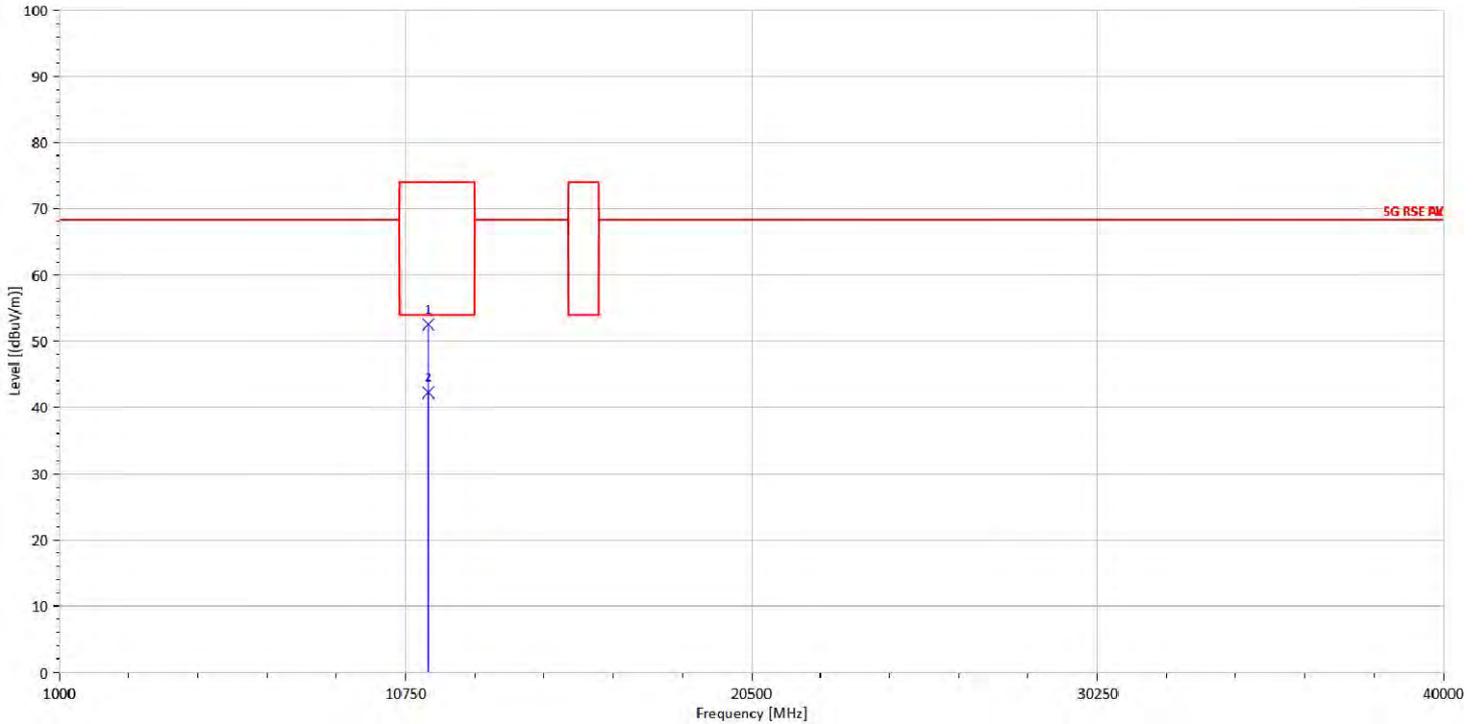
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	H	Peak	29.80	22.04	51.84	74	-22.16
11160.00	H	Average	21.08	22.04	43.12	54	-10.88

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Operation Mode :	802.11a	Test Date :	2017/2/18
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



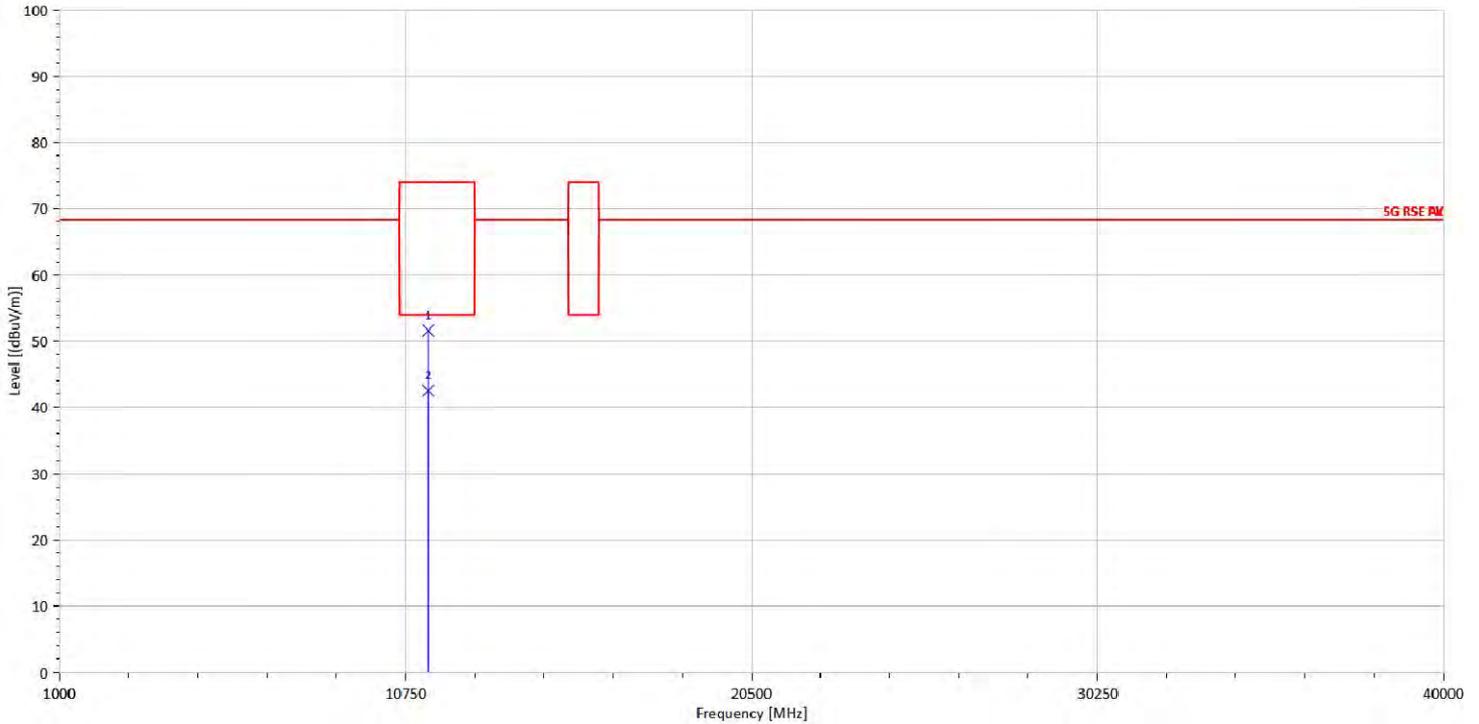
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11400.00	H	Peak	31.31	21.22	52.53	74	-21.47
11400.00	H	Average	21.04	21.22	42.26	54	-11.74

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Operation Mode : 802.11a Test Date : 2017/2/18
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Penny
 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	30.39	21.22	51.61	74	-22.39
11400.00	H	Average	21.31	21.22	42.53	54	-11.47

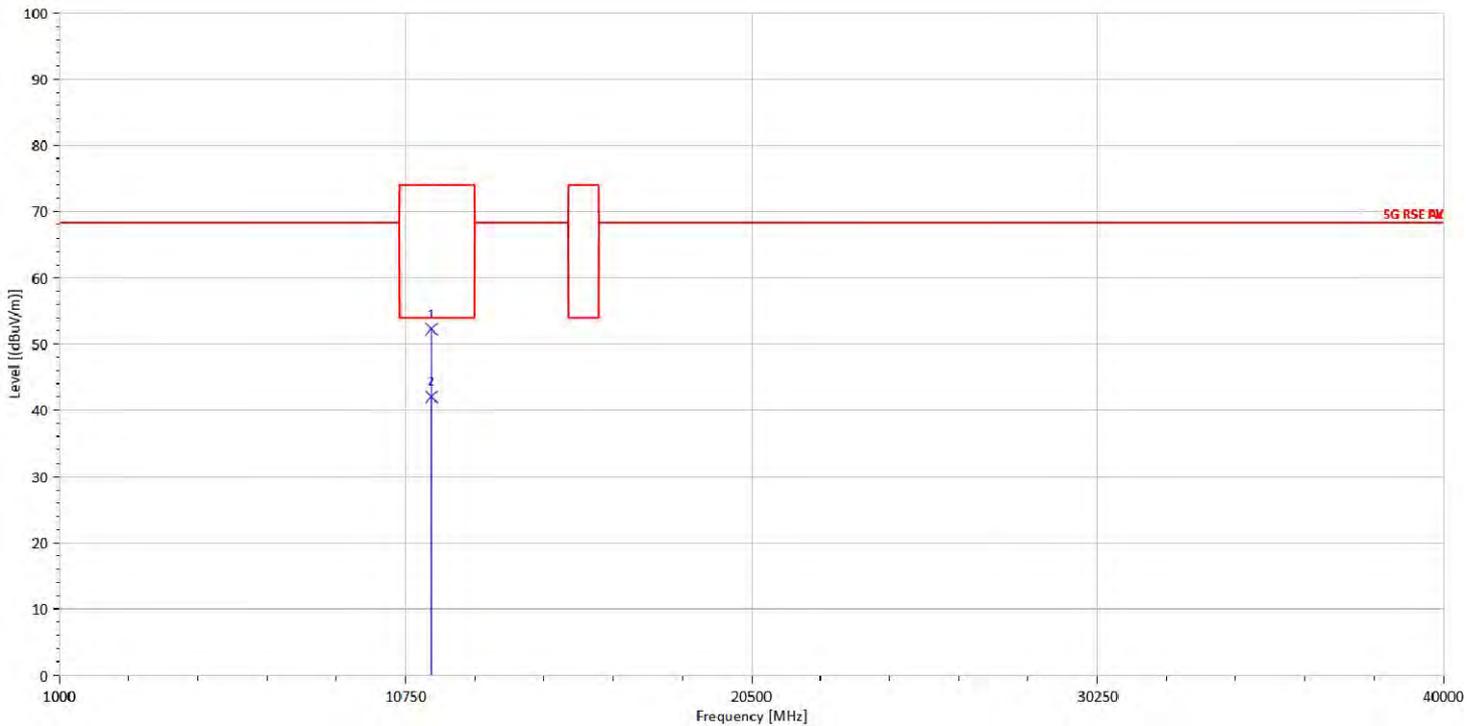
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Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode :	802.11a	Test Date :	2017/2/18
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



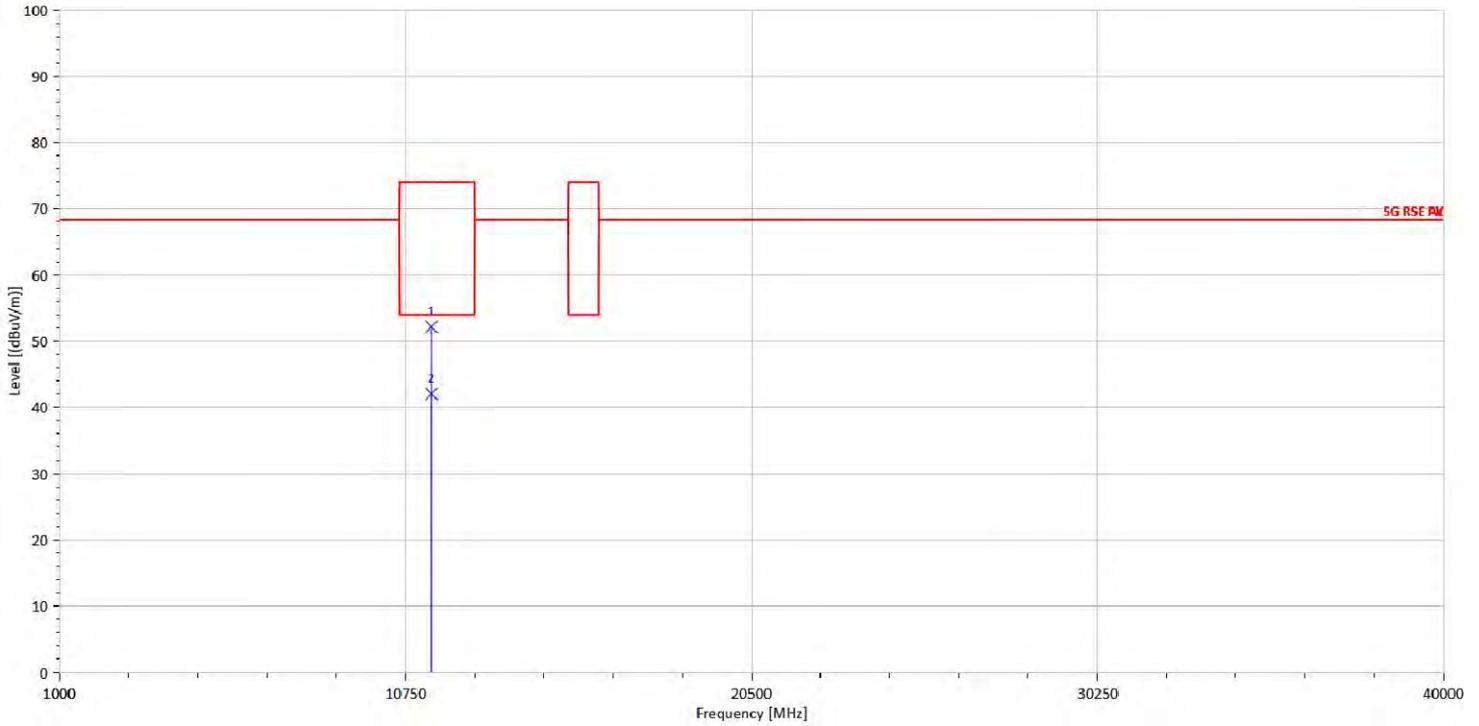
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11490.00	H	Peak	31.58	20.70	52.28	74	-21.72
11490.00	H	Average	21.34	20.70	42.04	54	-11.96

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Operation Mode : 802.11a Test Date : 2017/2/18
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



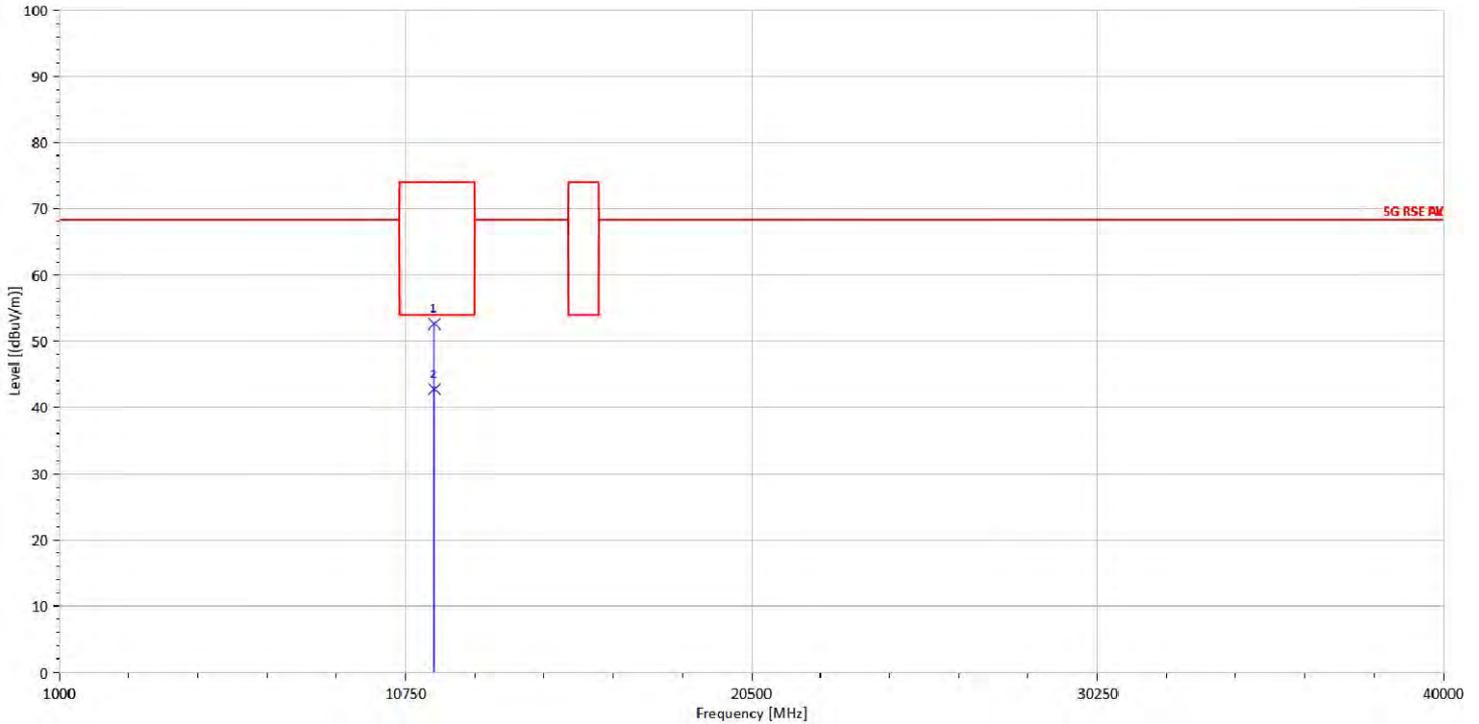
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11490.00	H	Peak	31.46	20.70	52.17	74	-21.83
11490.00	H	Average	21.36	20.70	42.06	54	-11.94

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Operation Mode : 802.11a Test Date : 2017/2/18
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



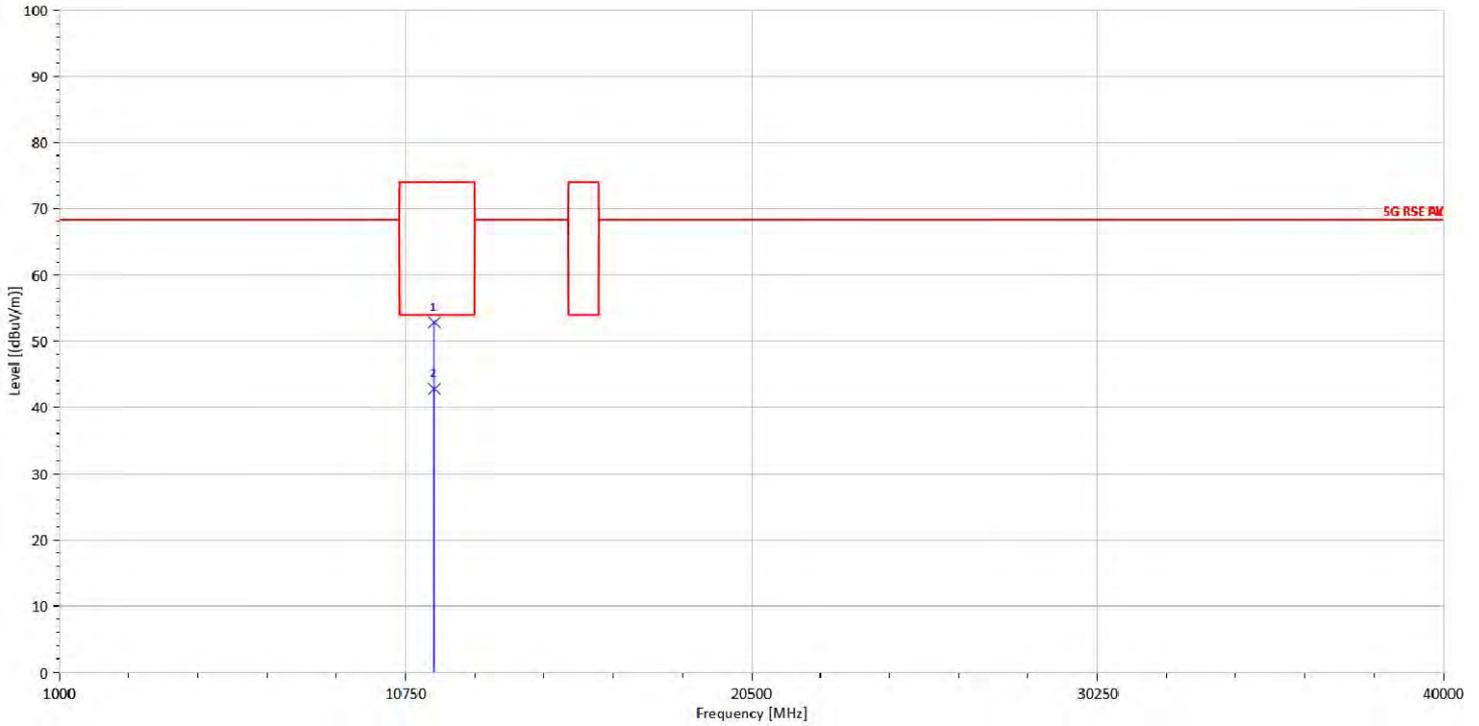
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.00	H	Peak	31.17	21.44	52.62	74	-21.38
11570.00	H	Average	21.34	21.44	42.78	54	-11.22

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Operation Mode : 802.11a Test Date : 2017/2/18
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



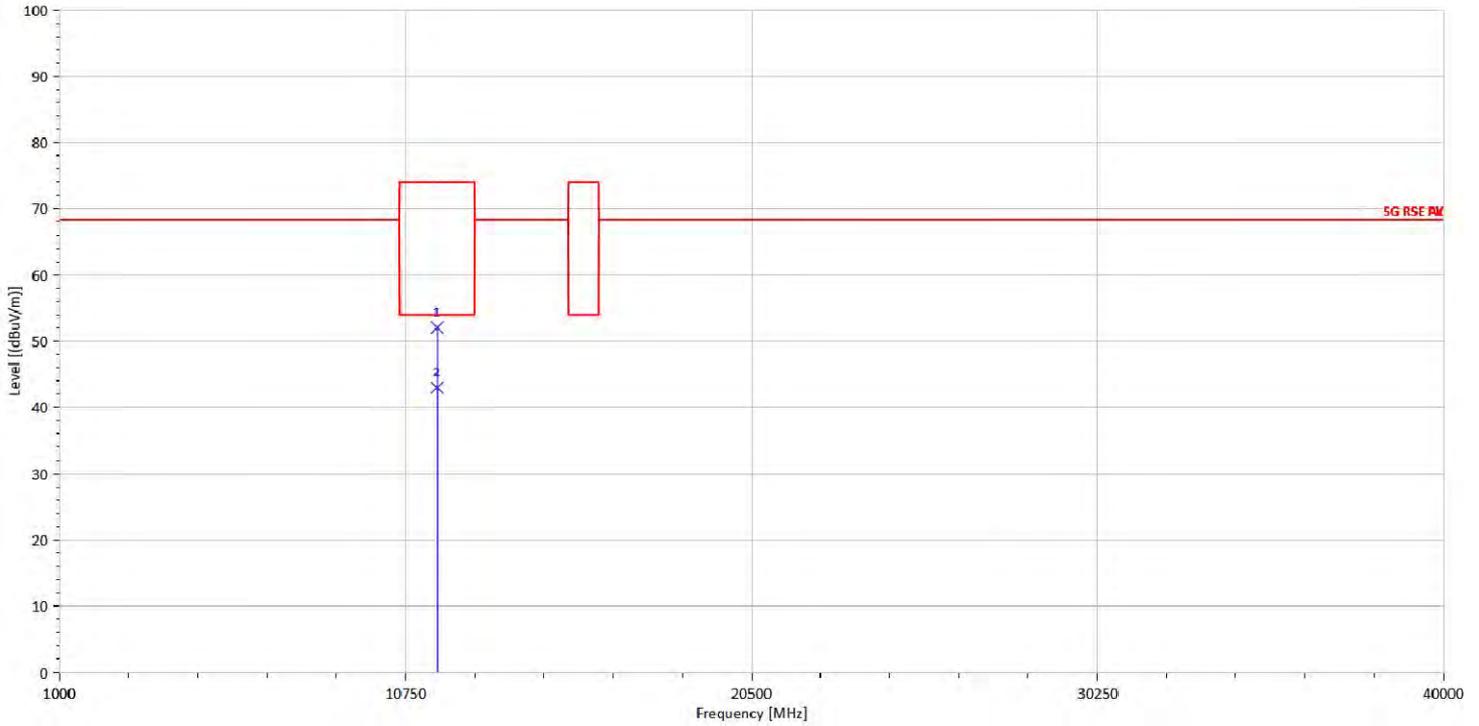
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.00	H	Peak	31.37	21.44	52.82	74	-21.18
11570.00	H	Average	21.37	21.44	42.82	54	-11.18

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Operation Mode : 802.11a Test Date : 2017/2/18
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



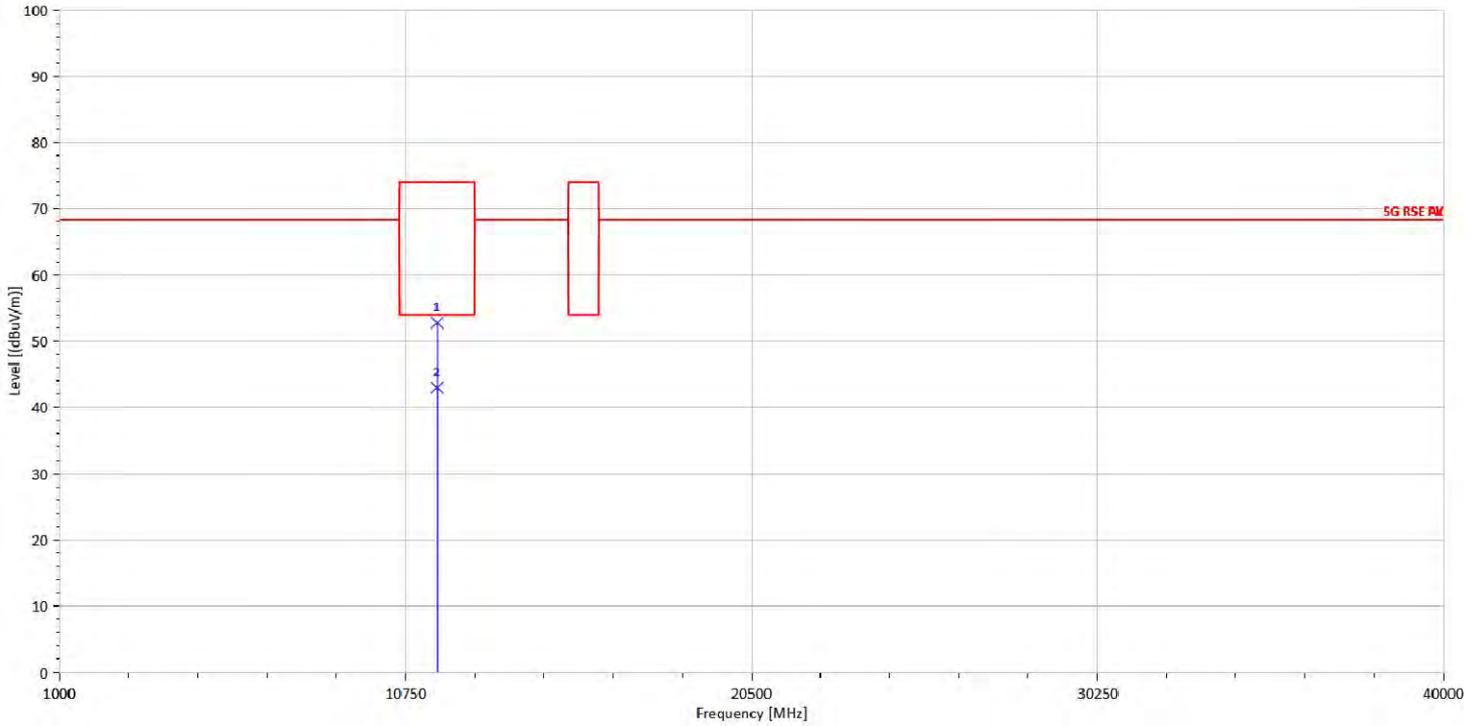
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11650.00	H	Peak	30.03	22.02	52.05	74	-21.95
11650.00	H	Average	20.99	22.02	43.01	54	-10.99

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Operation Mode :	802.11a	Test Date :	2017/2/18
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11650.00	H	Peak	30.75	22.02	52.77	74	-21.23
11650.00	H	Average	20.99	22.02	43.01	54	-10.99

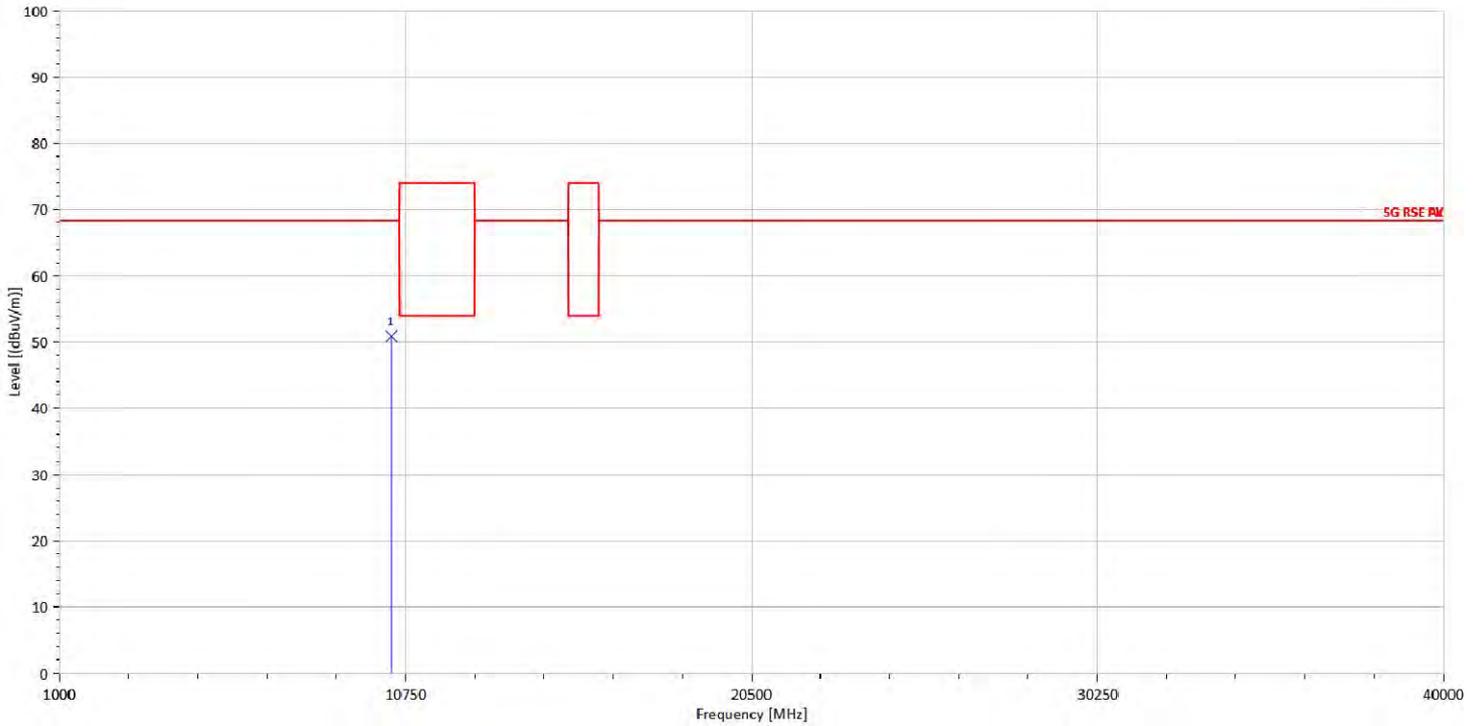
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode :	802.11n20	Test Date :	2017/2/18
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



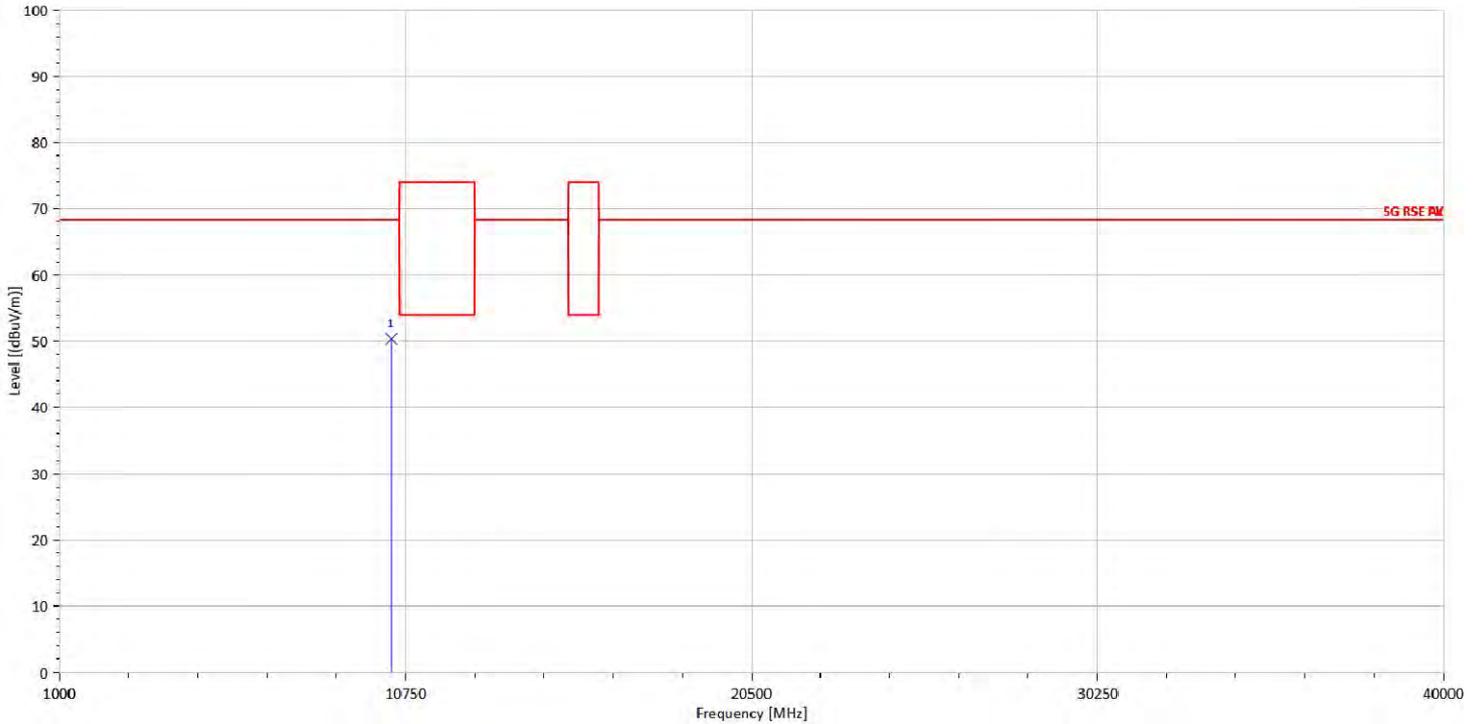
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10360.00	H	Peak	30.72	20.18	50.89	68.3	-17.41

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Operation Mode : 802.11n20 Test Date : 2017/2/18
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



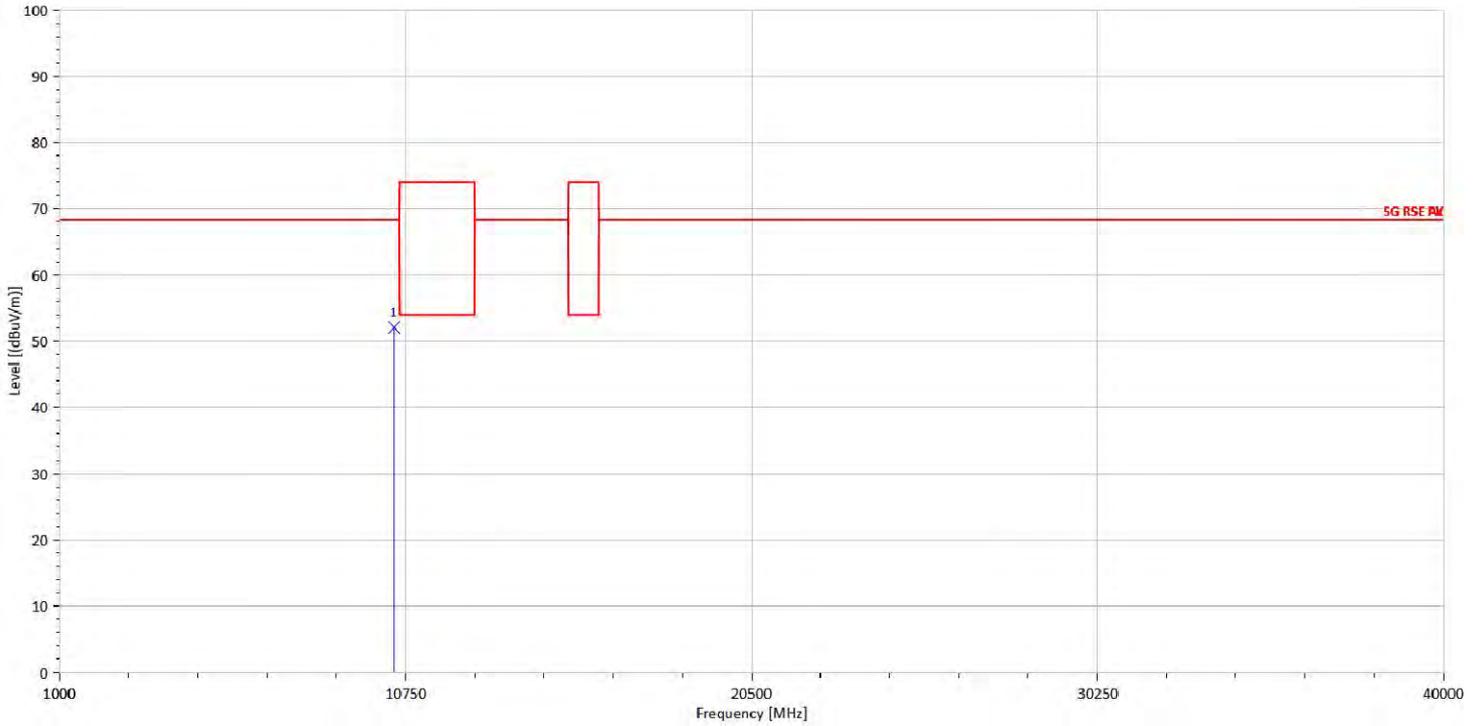
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10360.00	H	Peak	30.16	20.18	50.34	68.3	-17.96

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Operation Mode :	802.11n20	Test Date :	2017/2/18
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



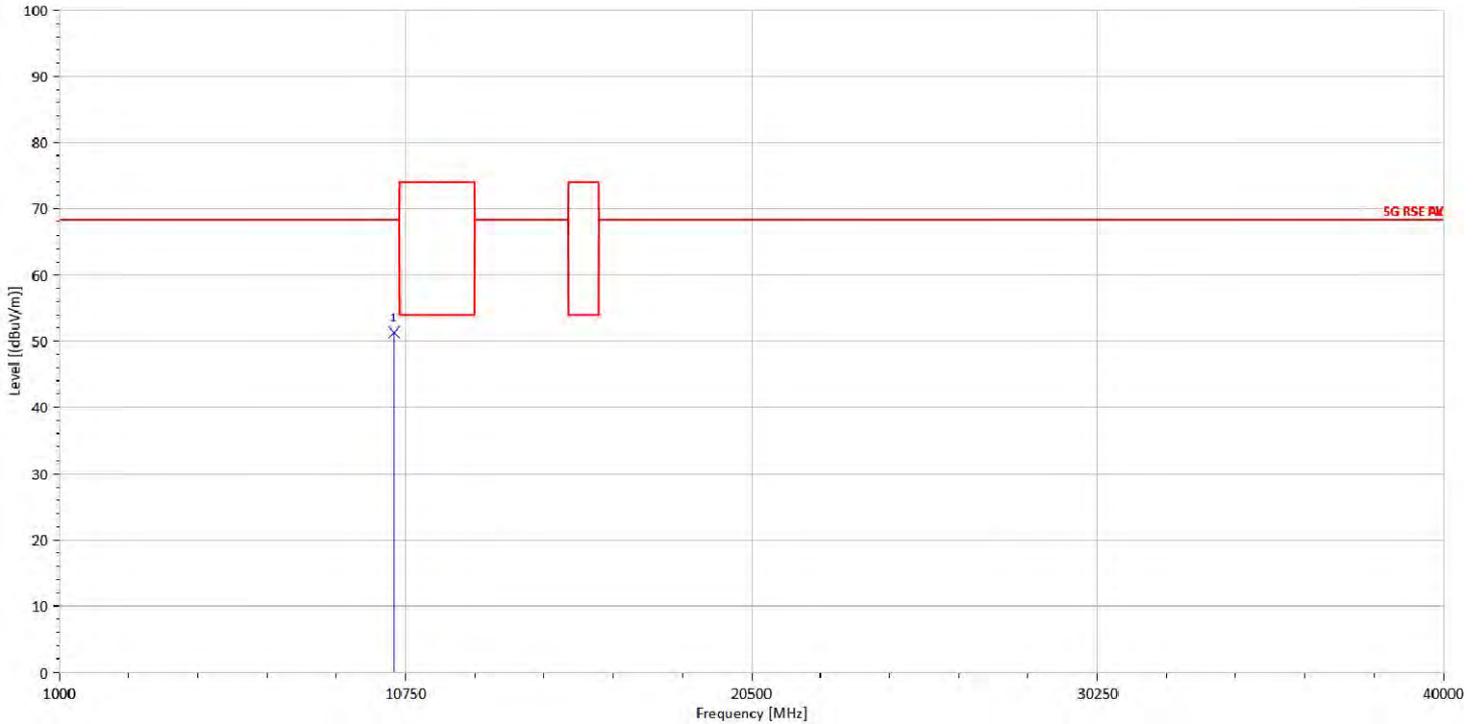
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10440.00	H	Peak	31.78	20.29	52.07	68.3	-16.23

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Operation Mode : 802.11n20 Test Date : 2017/2/18
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



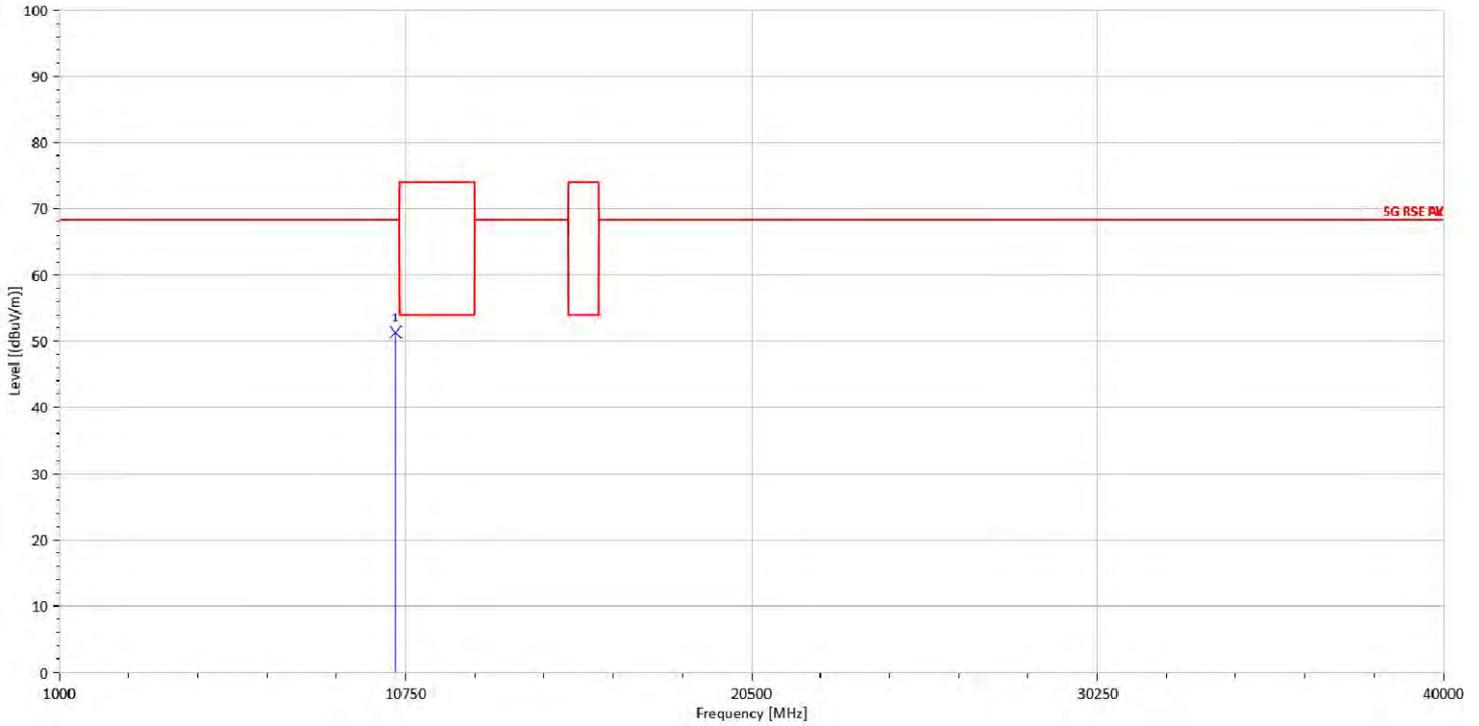
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10440.00	H	Peak	31.05	20.29	51.34	68.3	-16.96

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Operation Mode : 802.11n20 Test Date : 2017/2/18
 Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



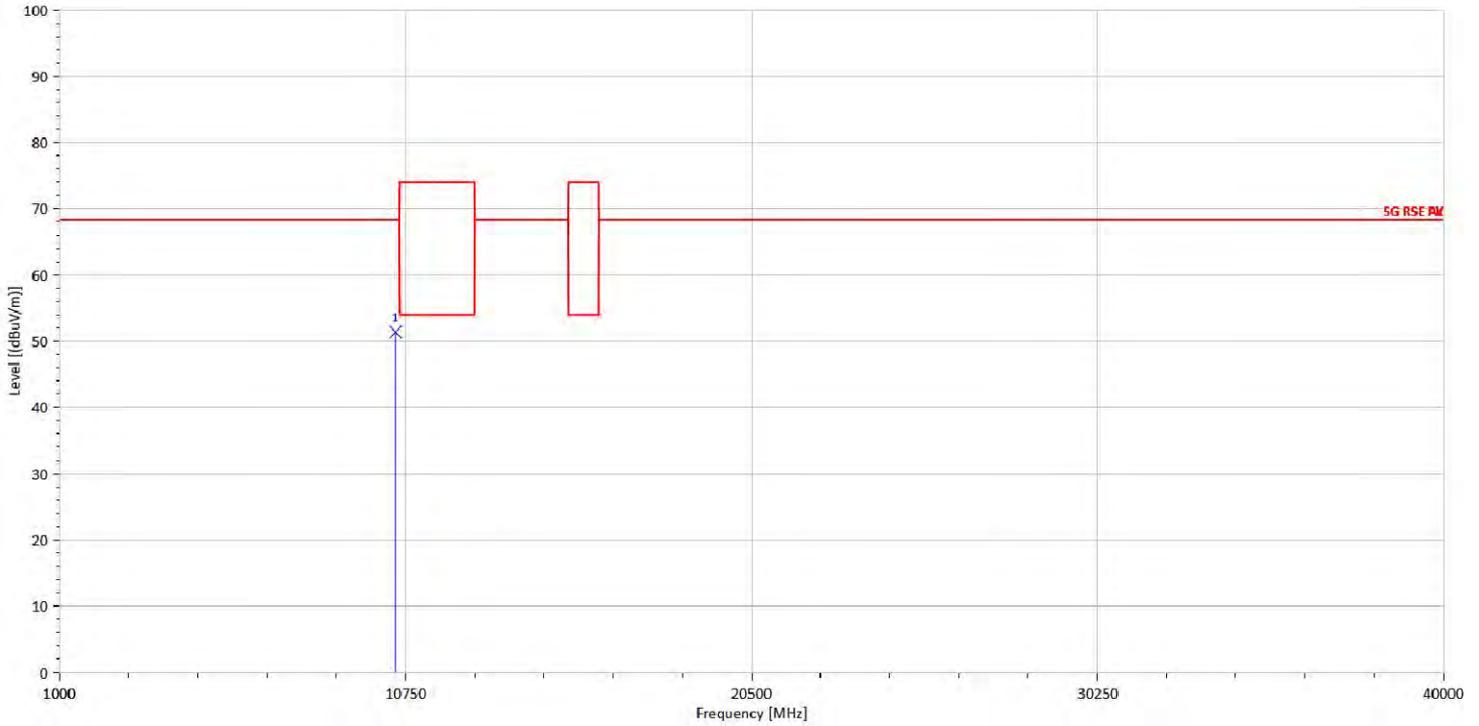
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10480.00	H	Peak	30.68	20.68	51.36	68.3	-16.94

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Operation Mode : 802.11n20 Test Date : 2017/2/18
 Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Penny
 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
10480.00	H	Peak	30.70	20.68	51.38	68.3	-16.92

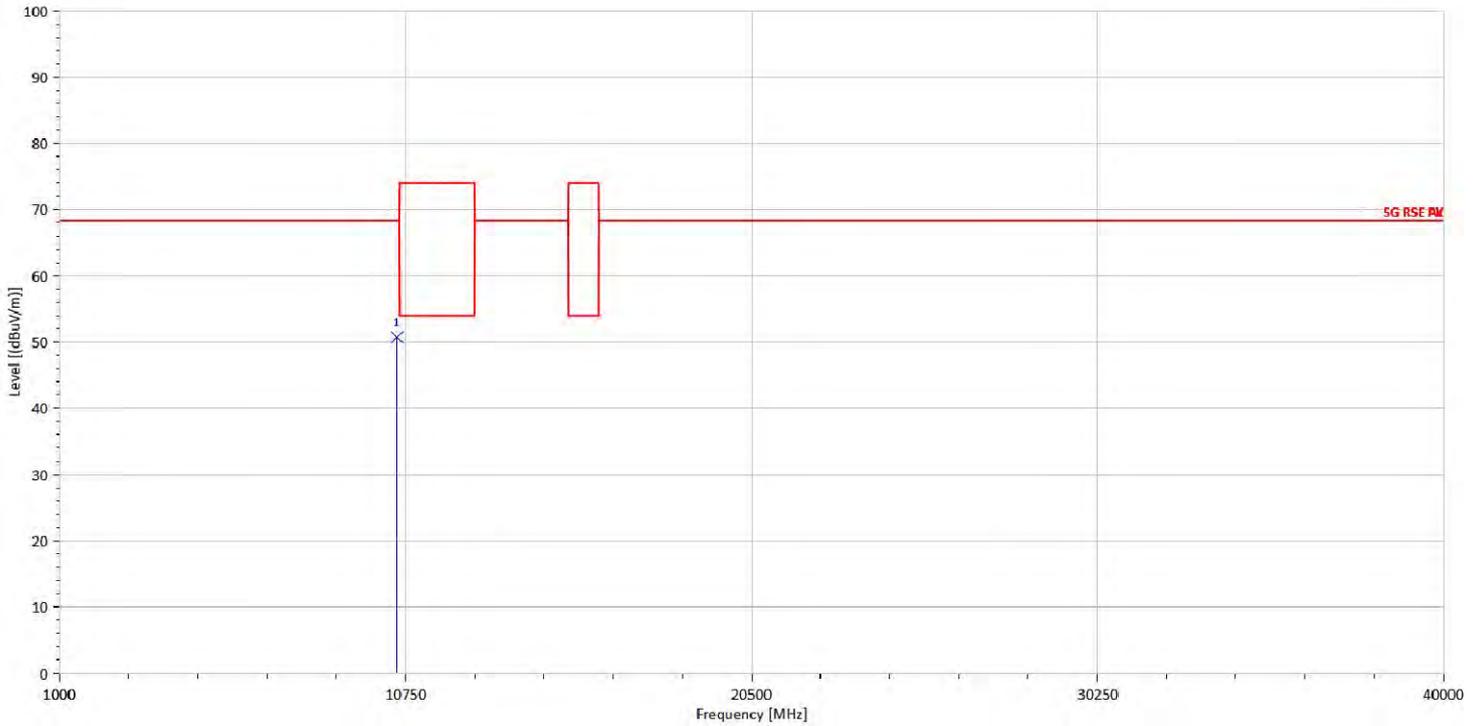
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode :	802.11n20	Test Date :	2017/2/18
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



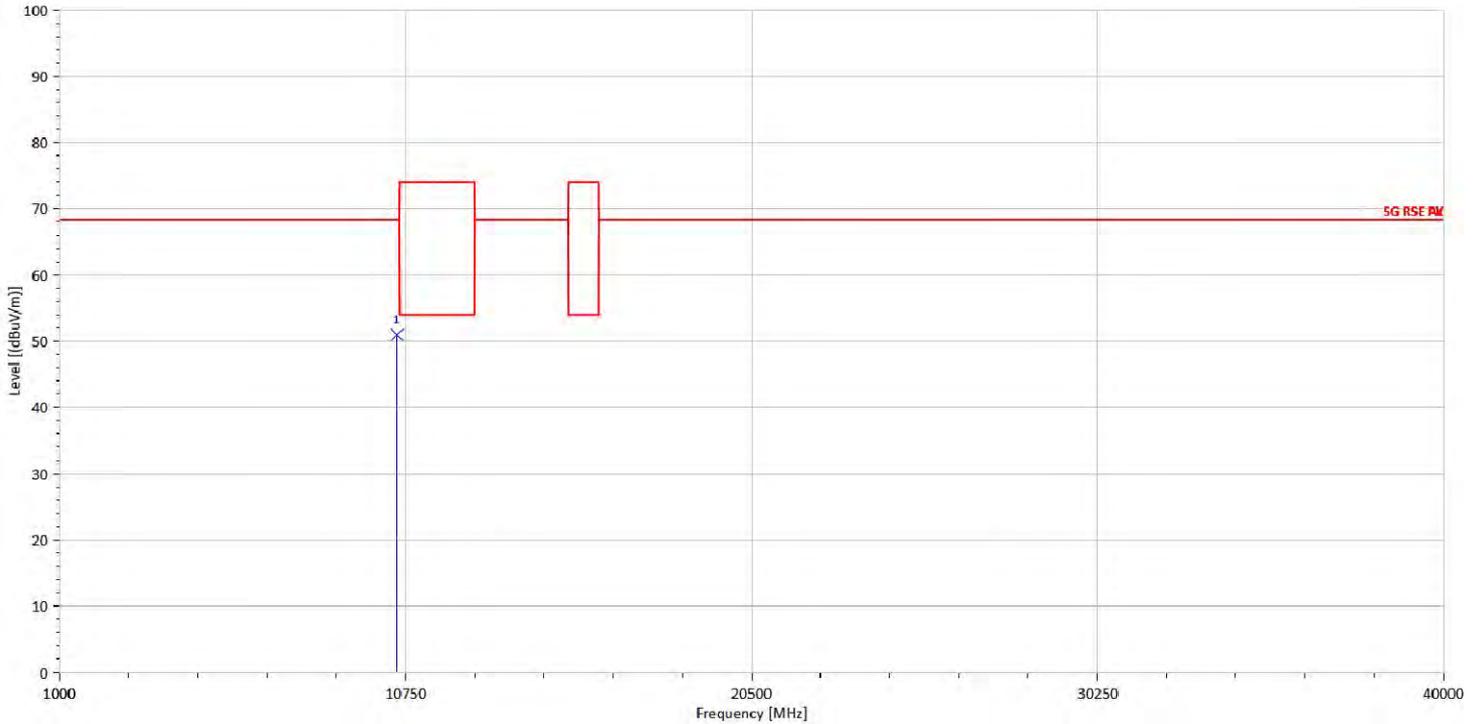
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10520.00	H	Peak	30.64	20.10	50.74	68.3	-17.56

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Operation Mode : 802.11n20 Test Date : 2017/2/18
 Fundamental Frequency : 5260 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



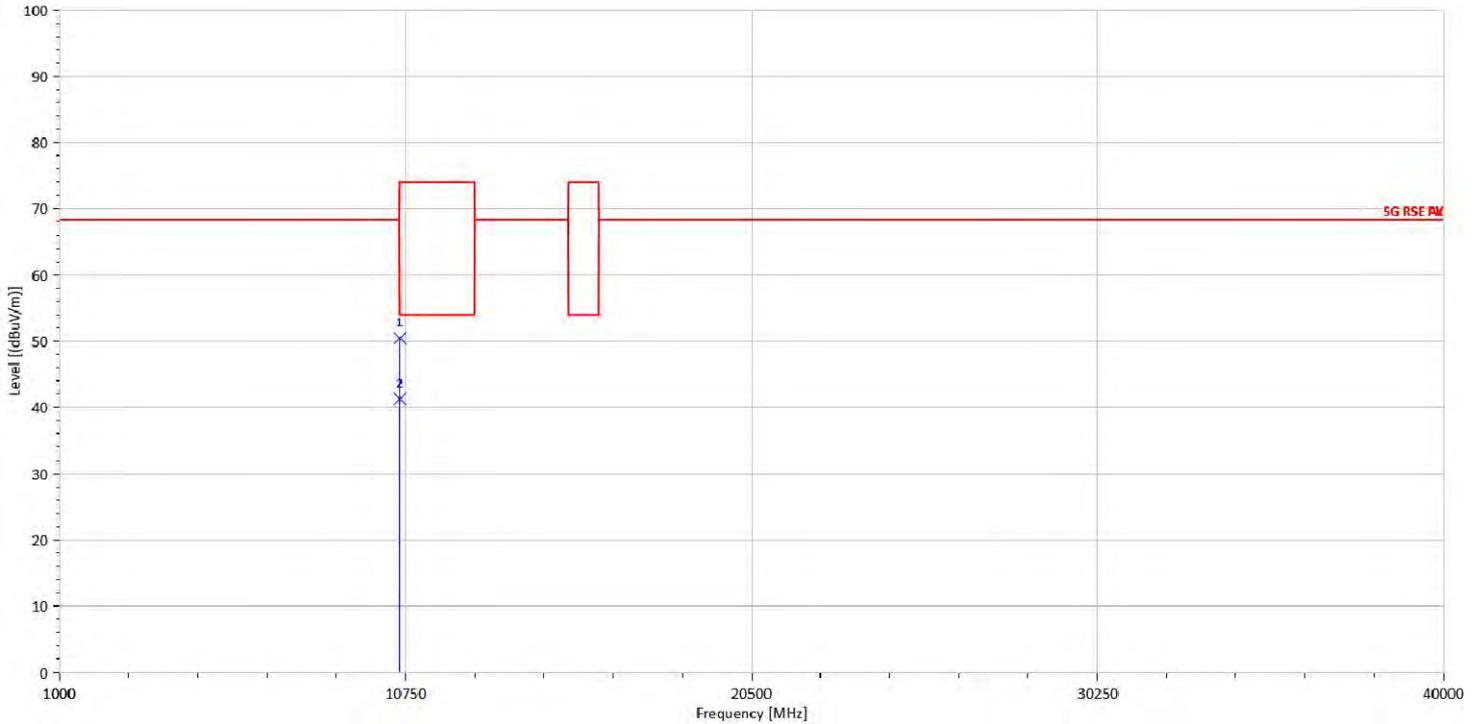
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10520.00	H	Peak	30.88	20.10	50.98	68.3	-17.32

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Operation Mode : 802.11n20 Test Date : 2017/2/18
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



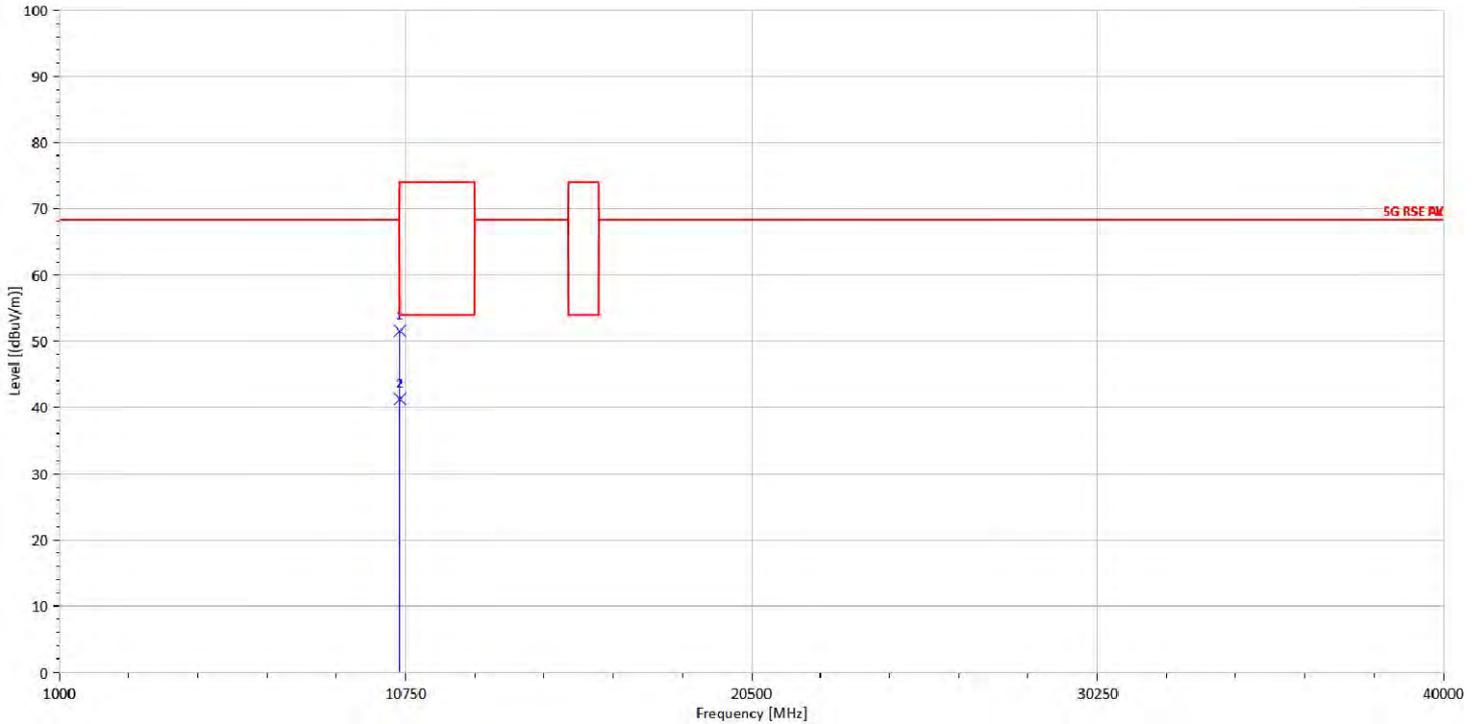
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	H	Peak	30.29	20.17	50.46	74	-23.54
10600.00	H	Average	21.12	20.17	41.29	54	-12.71

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Operation Mode : 802.11n20 Test Date : 2017/2/18
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



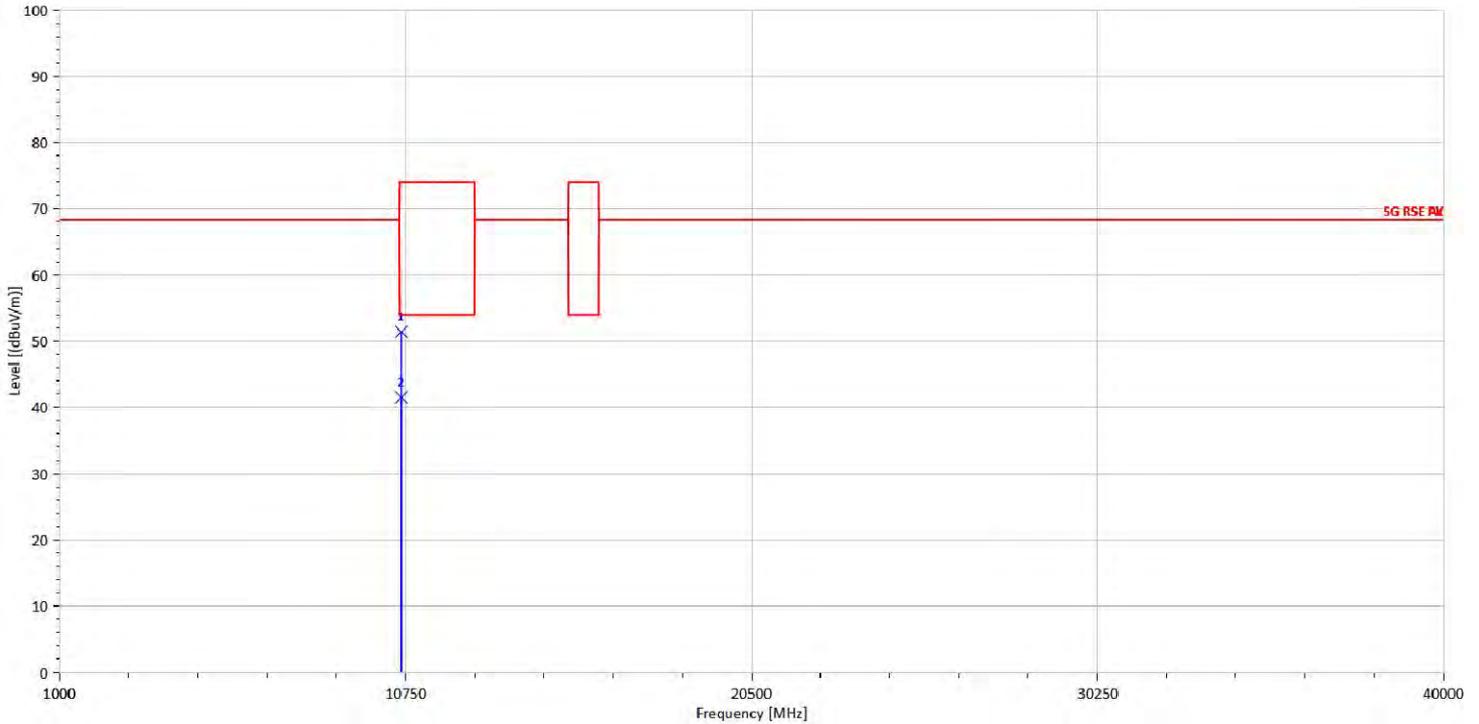
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10600.00	H	Peak	31.38	20.17	51.55	74	-22.45
10600.00	H	Average	21.11	20.17	41.28	54	-12.72

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Operation Mode : 802.11n20 Test Date : 2017/2/18
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



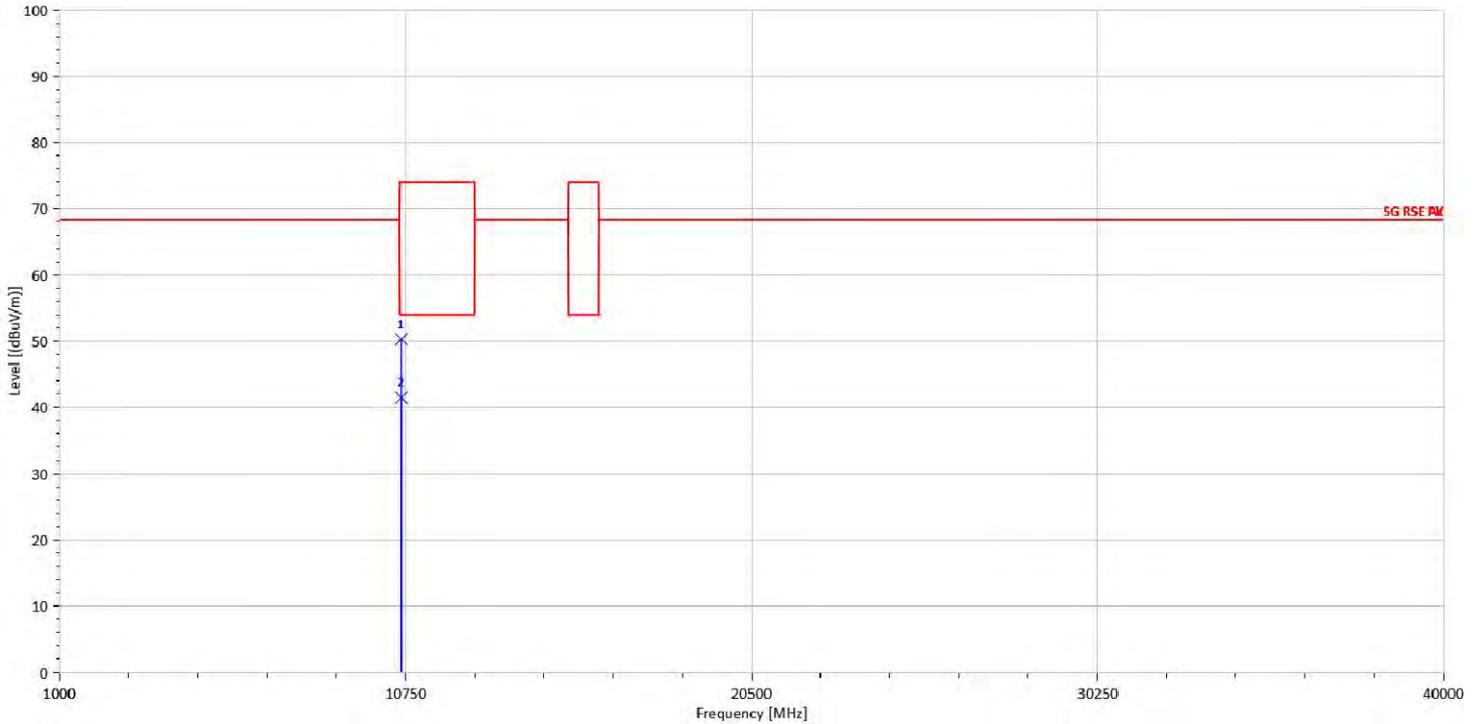
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10640.00	H	Peak	31.06	20.34	51.41	74	-22.59
10640.00	H	Average	21.18	20.34	41.52	54	-12.48

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Operation Mode : 802.11n20 Test Date : 2017/2/18
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10640.00	H	Peak	29.95	20.34	50.30	74	-23.70
10640.00	H	Average	21.14	20.34	41.48	54	-12.52

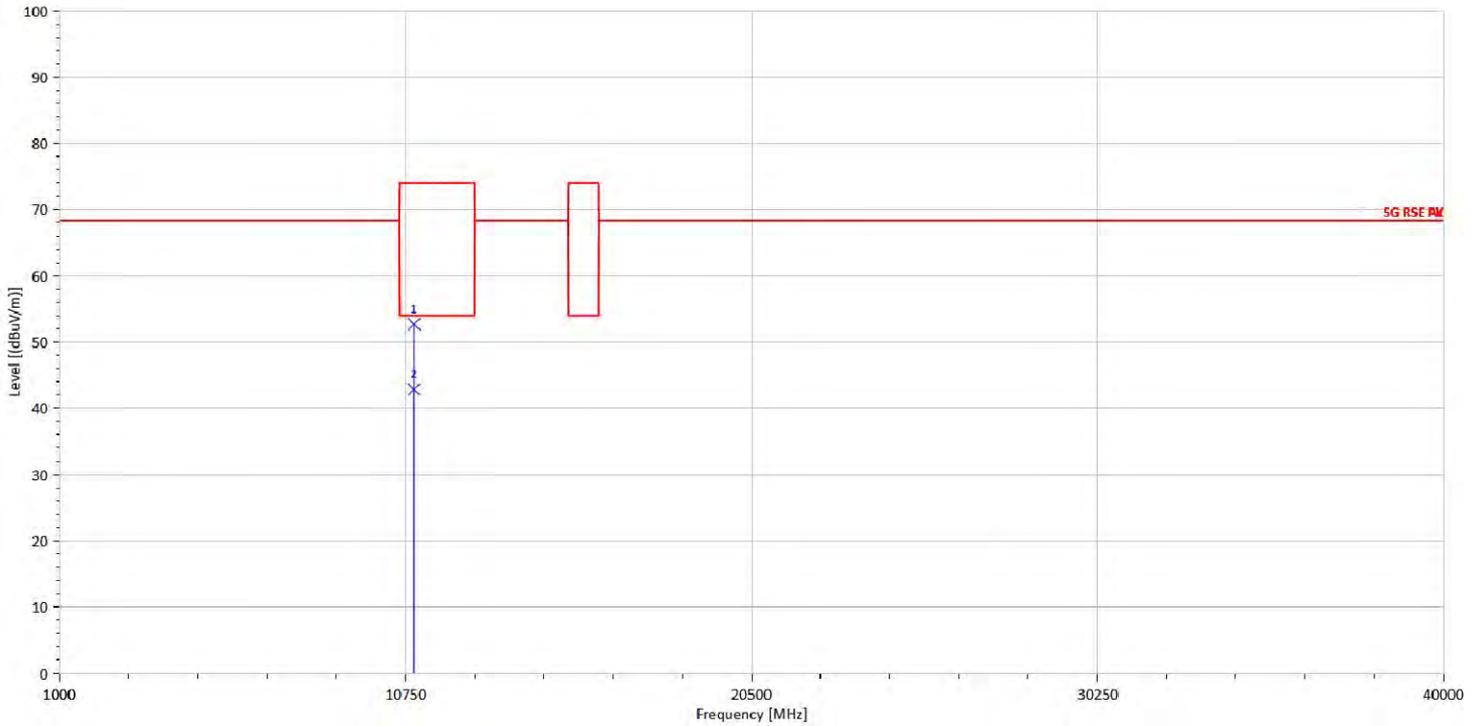
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode :	802.11n20	Test Date :	2017/2/18
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



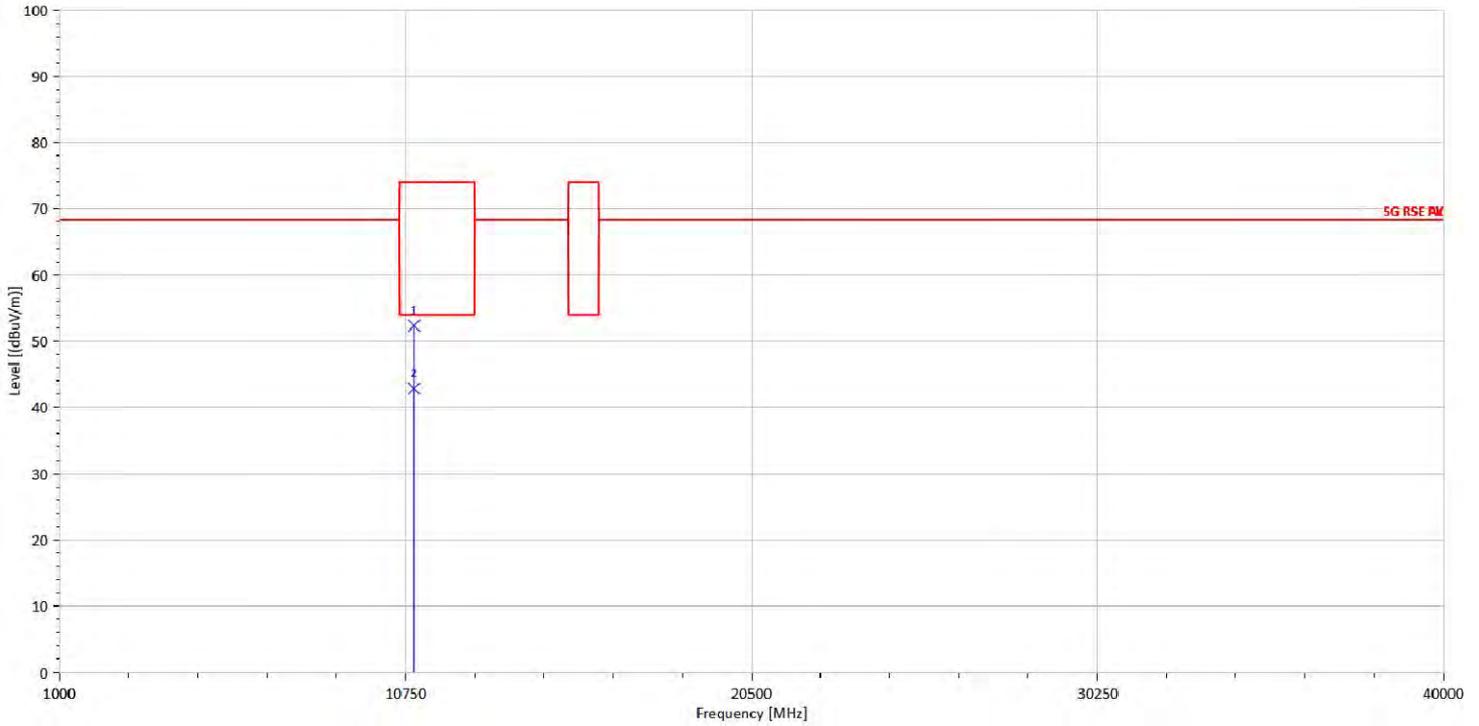
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11000.00	H	Peak	30.60	22.11	52.70	74	-21.30
11000.00	H	Average	20.76	22.11	42.87	54	-11.13

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Operation Mode : 802.11n20 Test Date : 2017/2/18
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



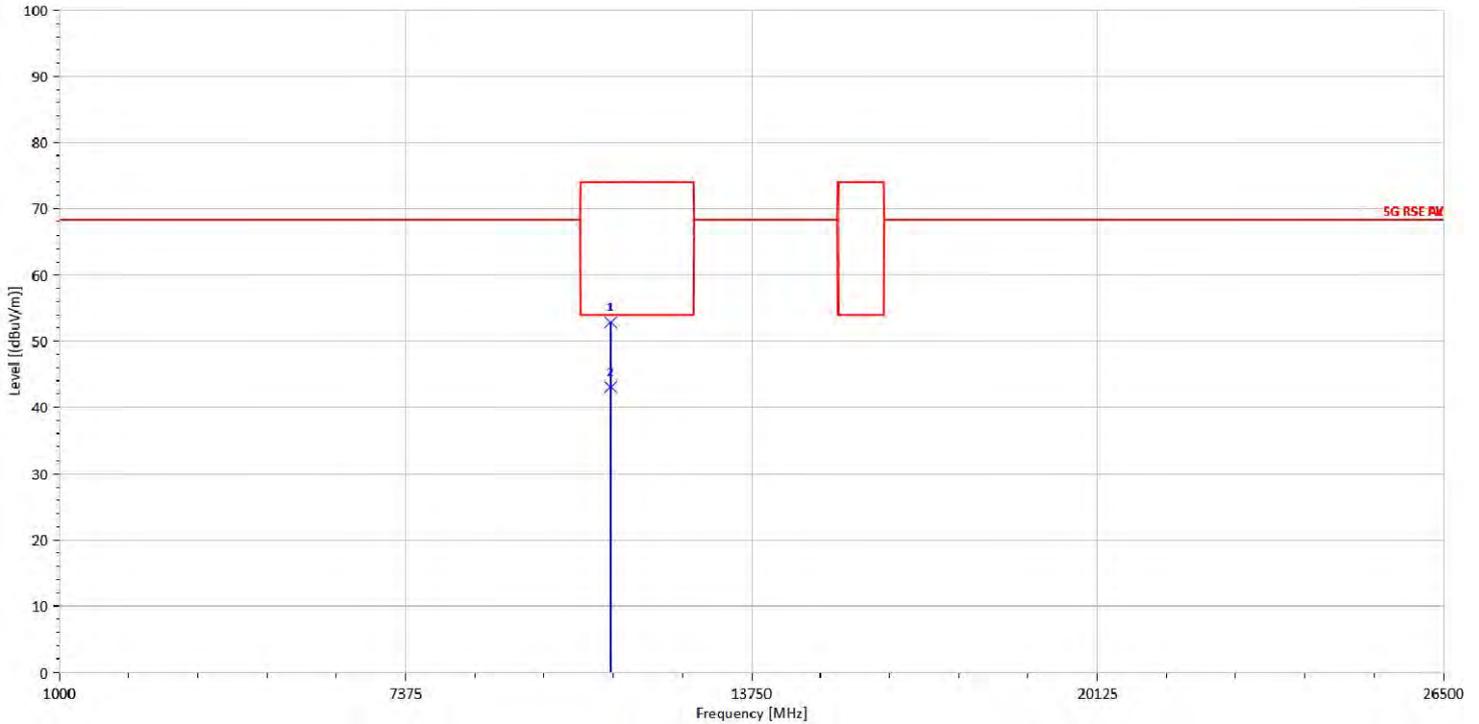
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11000.00	H	Peak	30.24	22.11	52.35	74	-21.65
11000.00	H	Average	20.76	22.11	42.87	54	-11.13

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Operation Mode : 802.11n20 Test Date : 2017/2/18
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



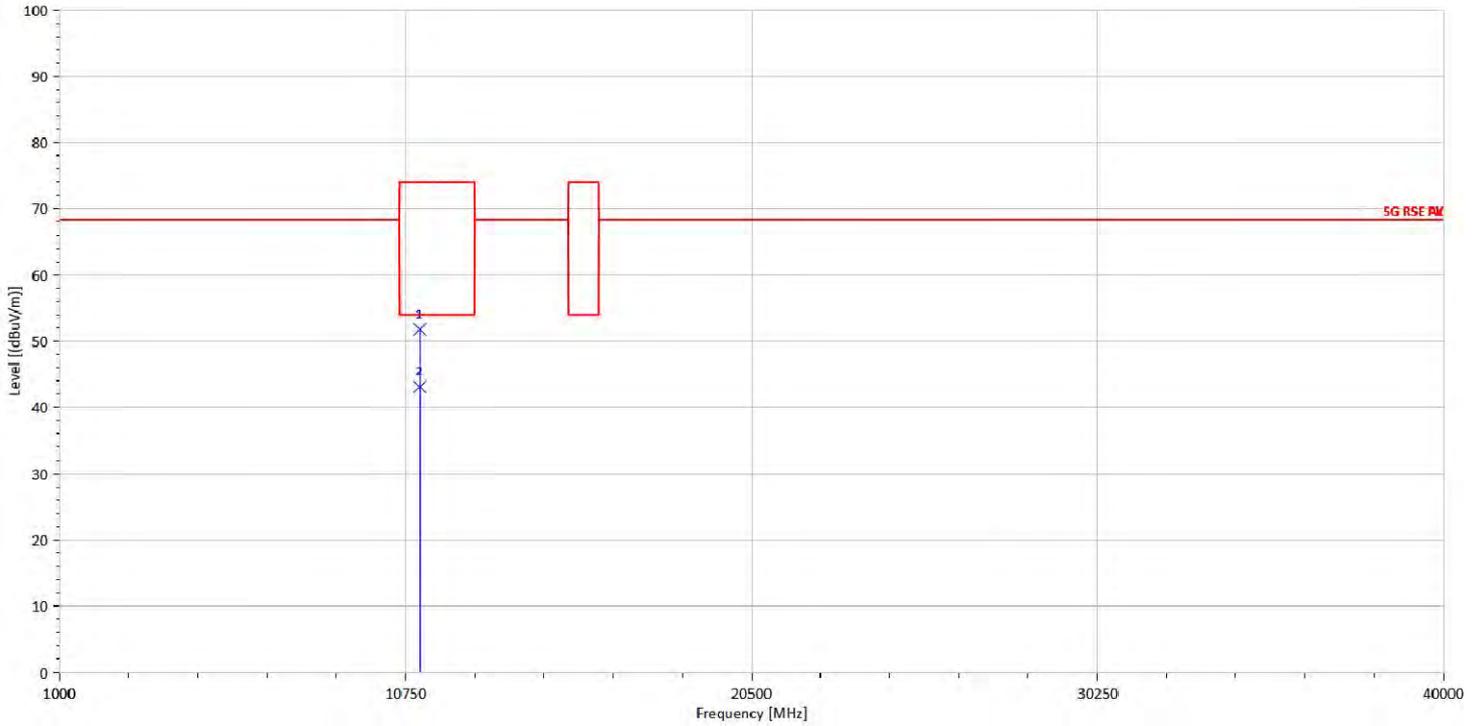
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11160.00	H	Peak	30.81	22.04	52.85	74	-21.15
11160.00	H	Average	21.07	22.04	43.11	54	-10.89

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Operation Mode : 802.11n20 Test Date : 2017/2/18
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



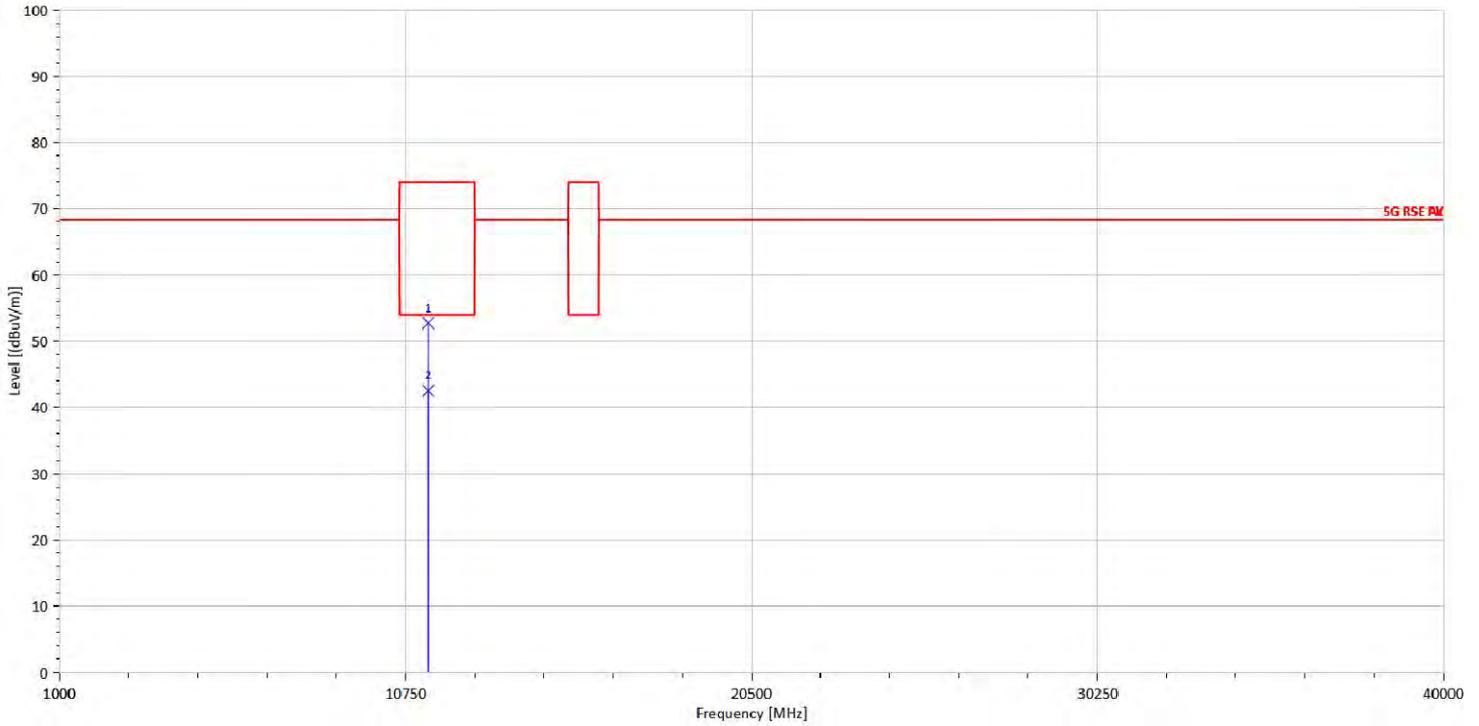
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.00	H	Peak	29.75	22.04	51.79	74	-22.21
11160.00	H	Average	21.08	22.04	43.12	54	-10.88

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Operation Mode : 802.11n20 Test Date : 2017/2/18
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



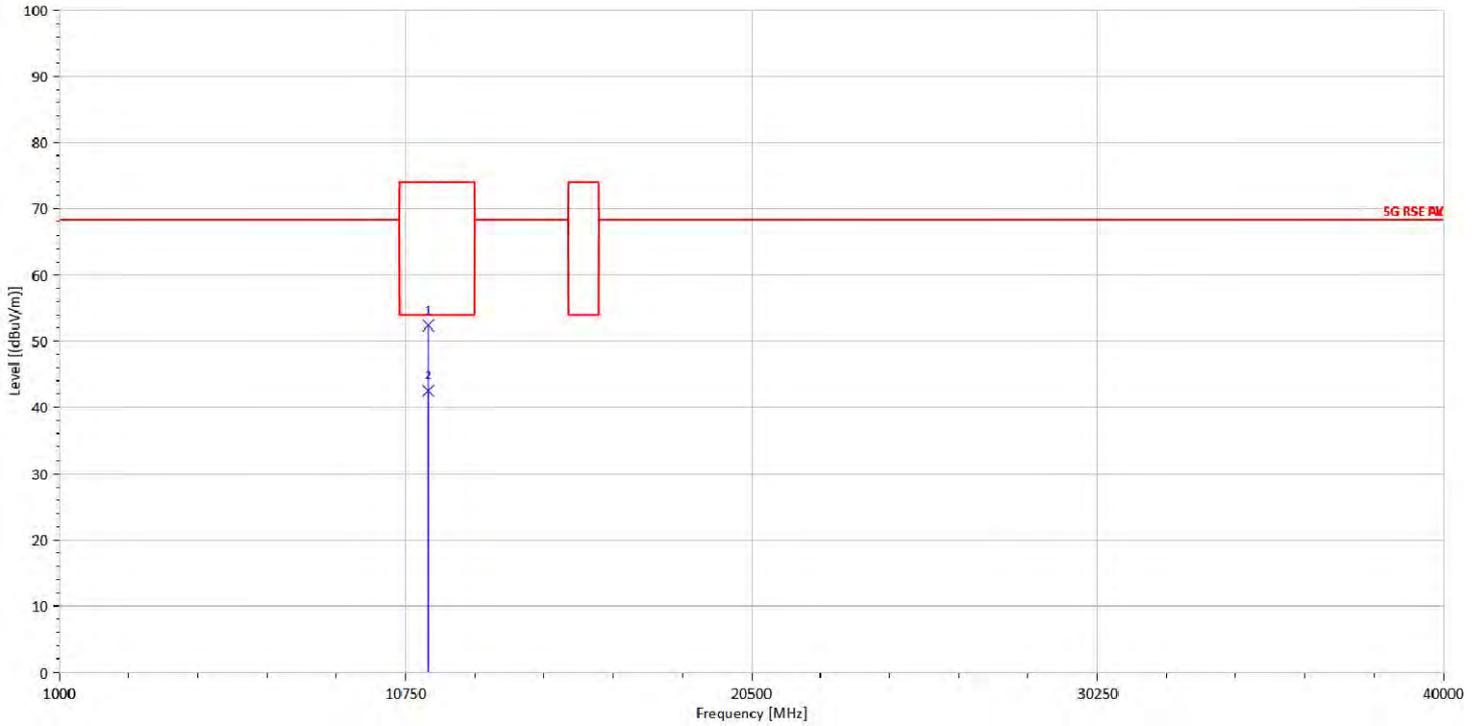
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11400.00	H	Peak	31.53	21.22	52.74	74	-21.26
11400.00	H	Average	21.30	21.22	42.52	54	-11.48

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Operation Mode : 802.11n20 Test Date : 2017/2/18
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11400.00	H	Peak	31.17	21.22	52.39	74	-21.61
11400.00	H	Average	21.29	21.22	42.51	54	-11.49

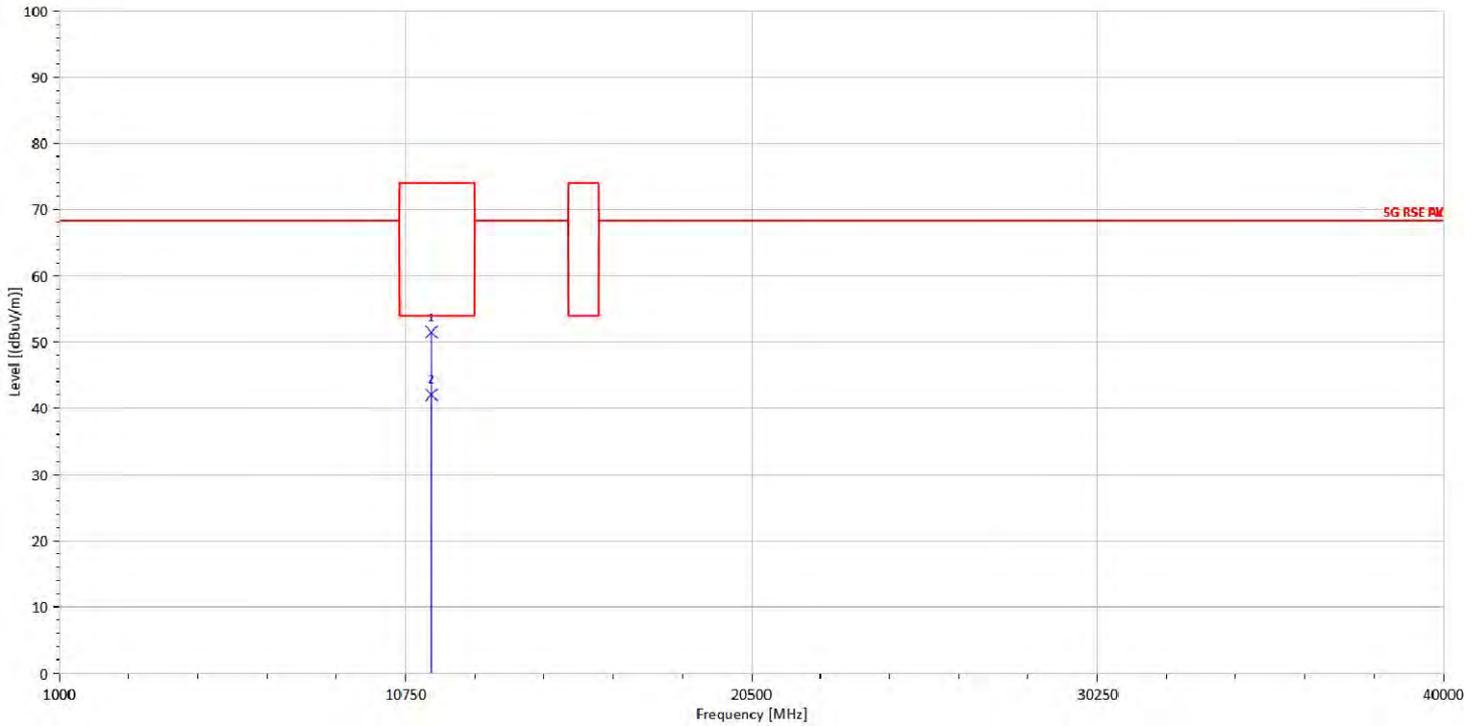
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode :	802.11n20	Test Date :	2017/2/18
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



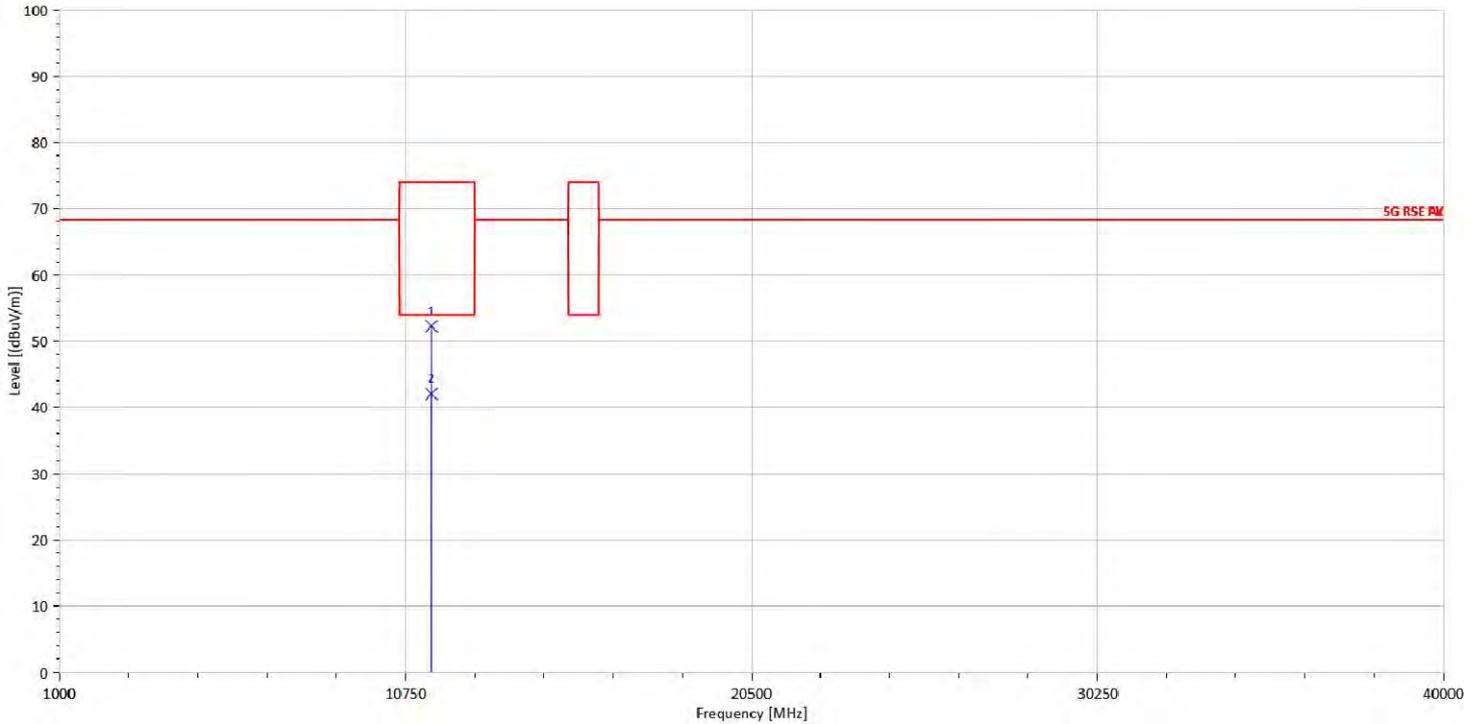
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11490.00	H	Peak	30.81	20.70	51.51	74	-22.49
11490.00	H	Average	21.35	20.70	42.05	54	-11.95

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Operation Mode : 802.11n20 Test Date : 2017/2/18
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



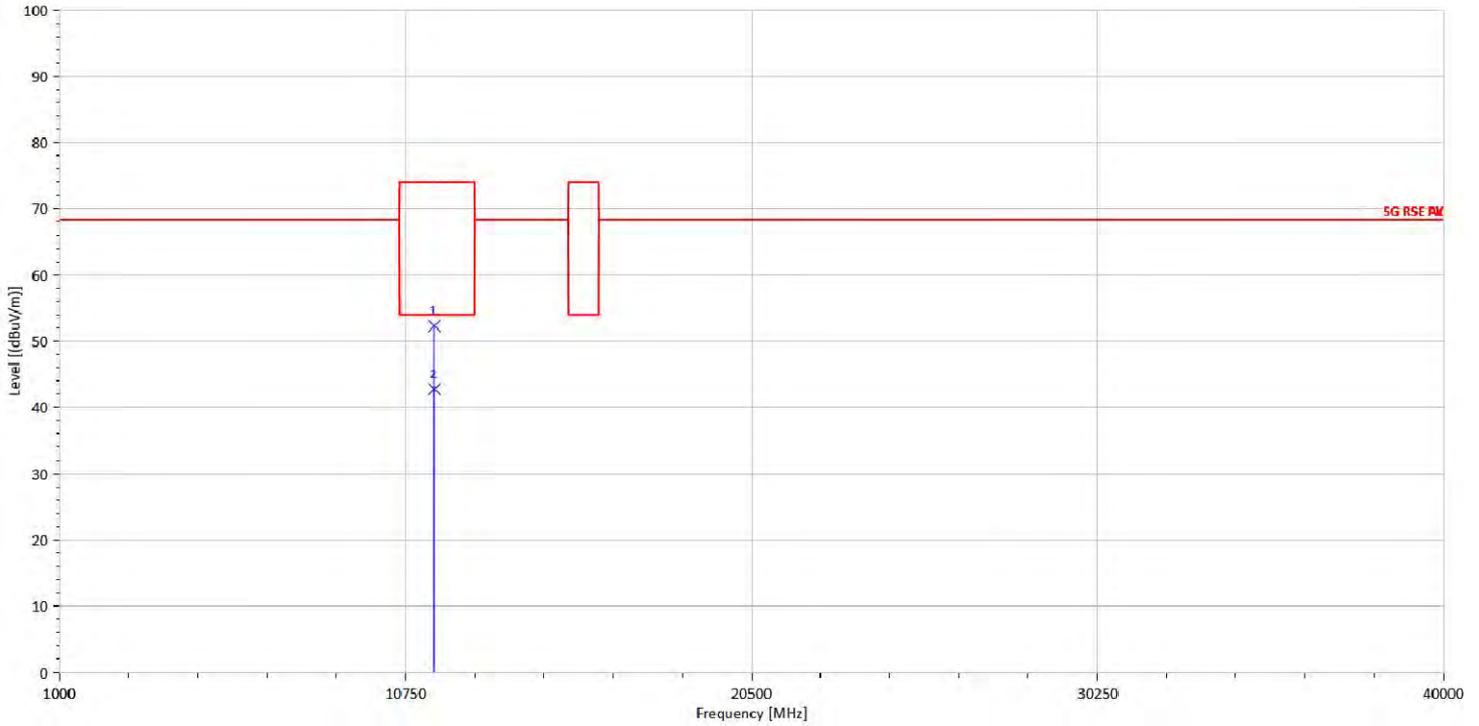
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	H	Peak	31.57	20.70	52.28	74	-21.72
11490.00	H	Average	21.35	20.70	42.05	54	-11.95

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Operation Mode : 802.11n20 Test Date : 2017/2/18
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



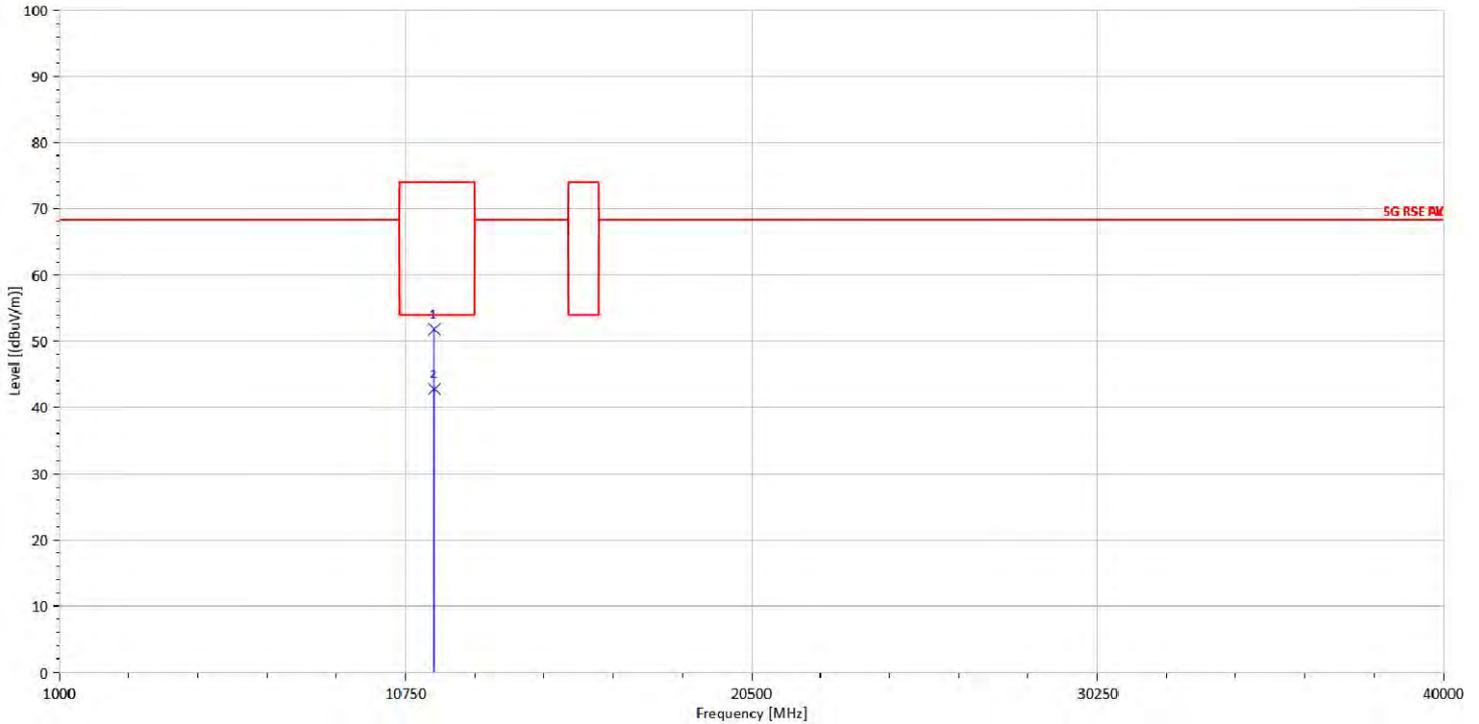
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.00	H	Peak	30.86	21.44	52.30	74	-21.70
11570.00	H	Average	21.34	21.44	42.78	54	-11.22

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Operation Mode : 802.11n20 Test Date : 2017/2/18
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



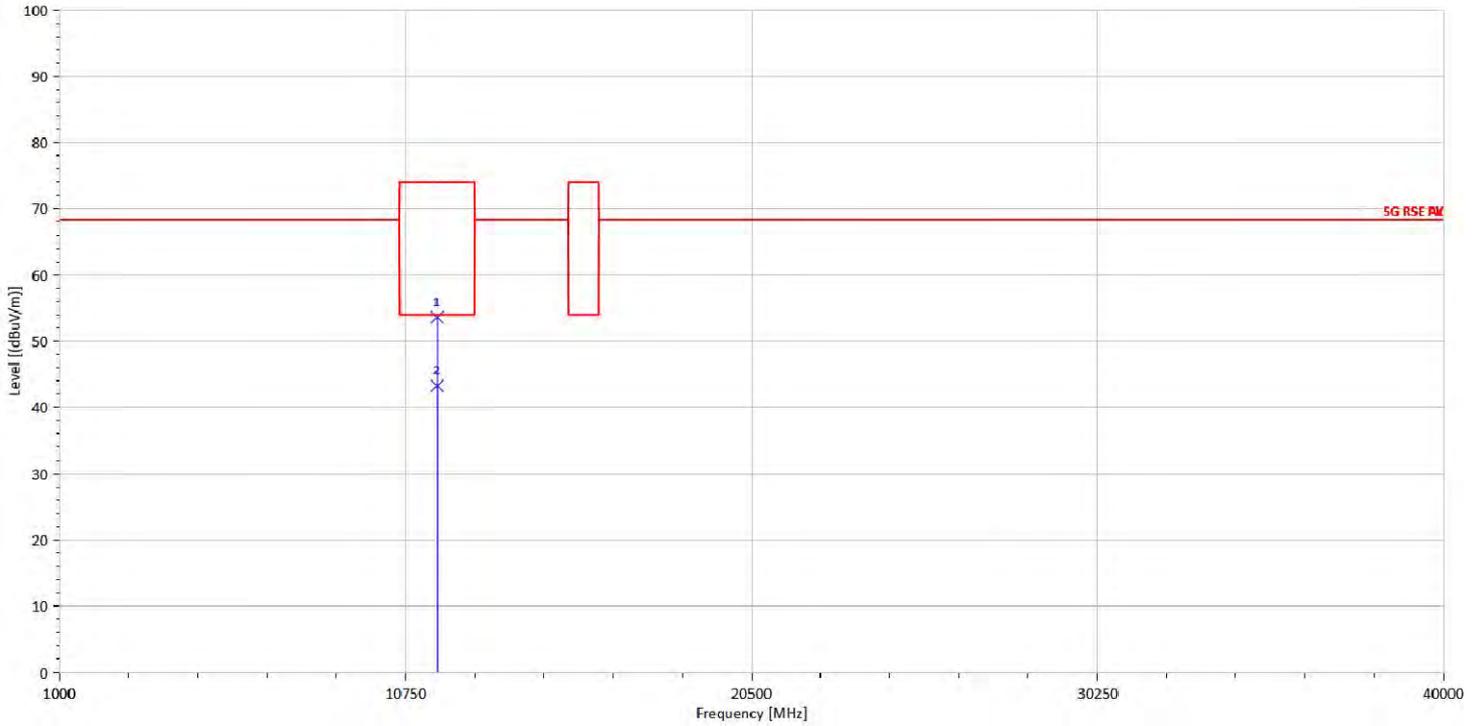
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	H	Peak	30.36	21.44	51.81	74	-22.19
11570.00	H	Average	21.35	21.44	42.79	54	-11.21

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Operation Mode : 802.11n20 Test Date : 2017/2/18
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



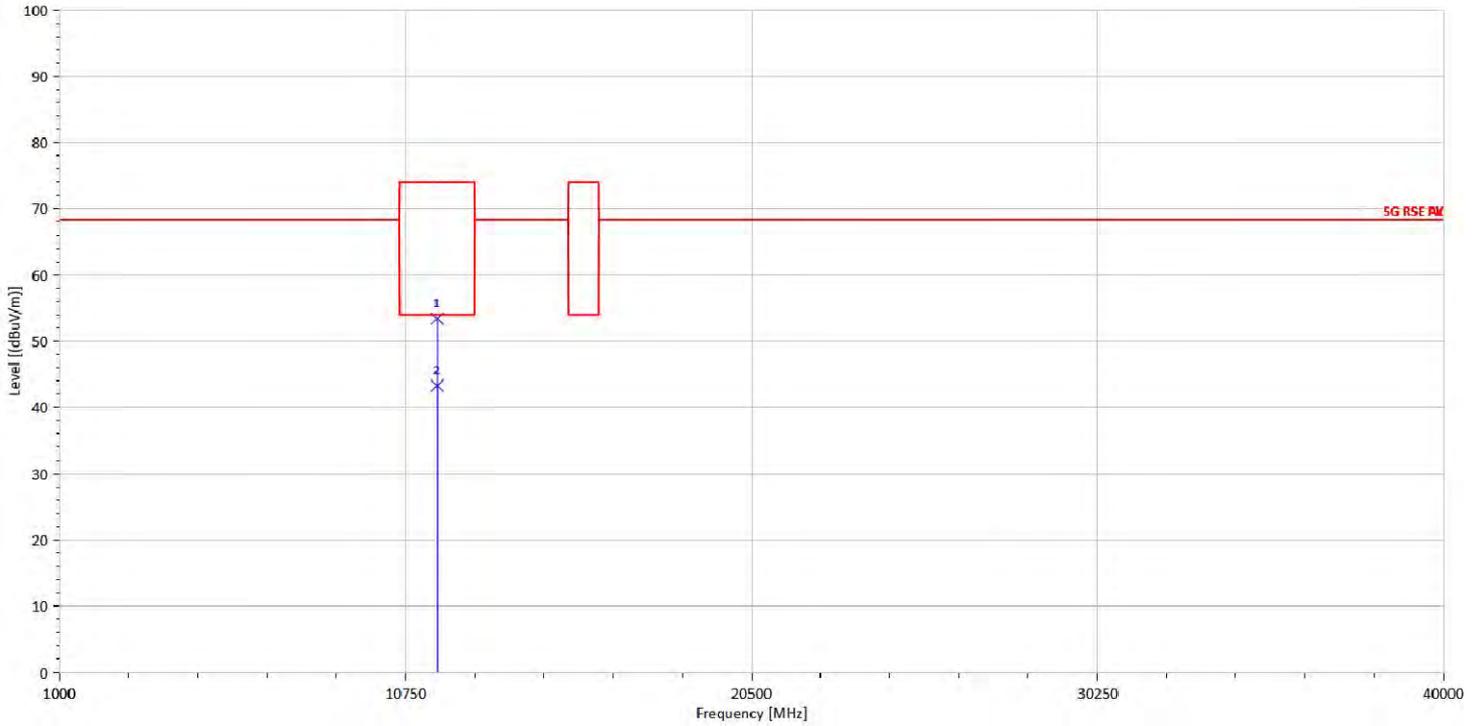
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11650.00	H	Peak	31.60	22.02	53.62	74	-20.38
11650.00	H	Average	21.27	22.02	43.29	54	-10.71

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Operation Mode : 802.11n20 Test Date : 2017/2/18
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	H	Peak	31.40	22.02	53.42	74	-20.58
11650.00	H	Average	21.28	22.02	43.30	54	-10.70

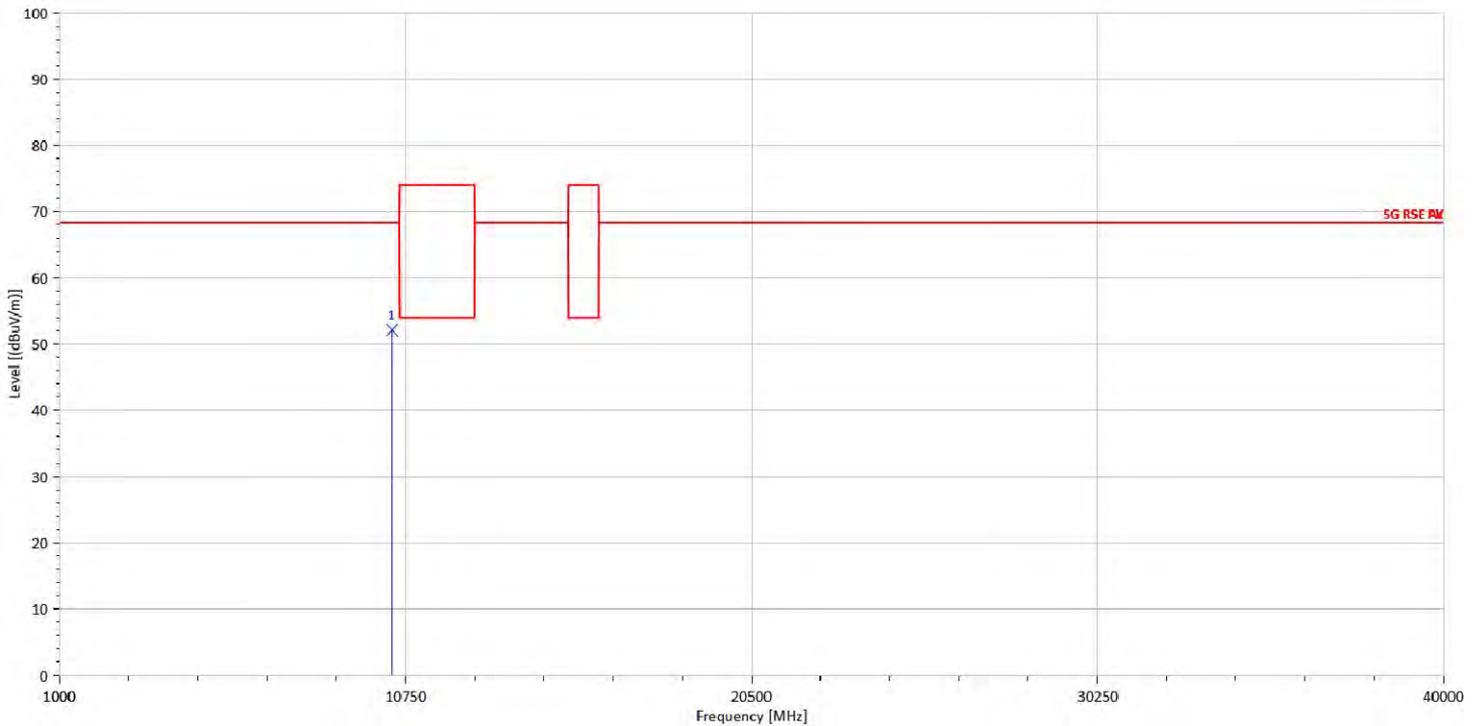
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode :	802.11n40	Test Date :	2017/2/18
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



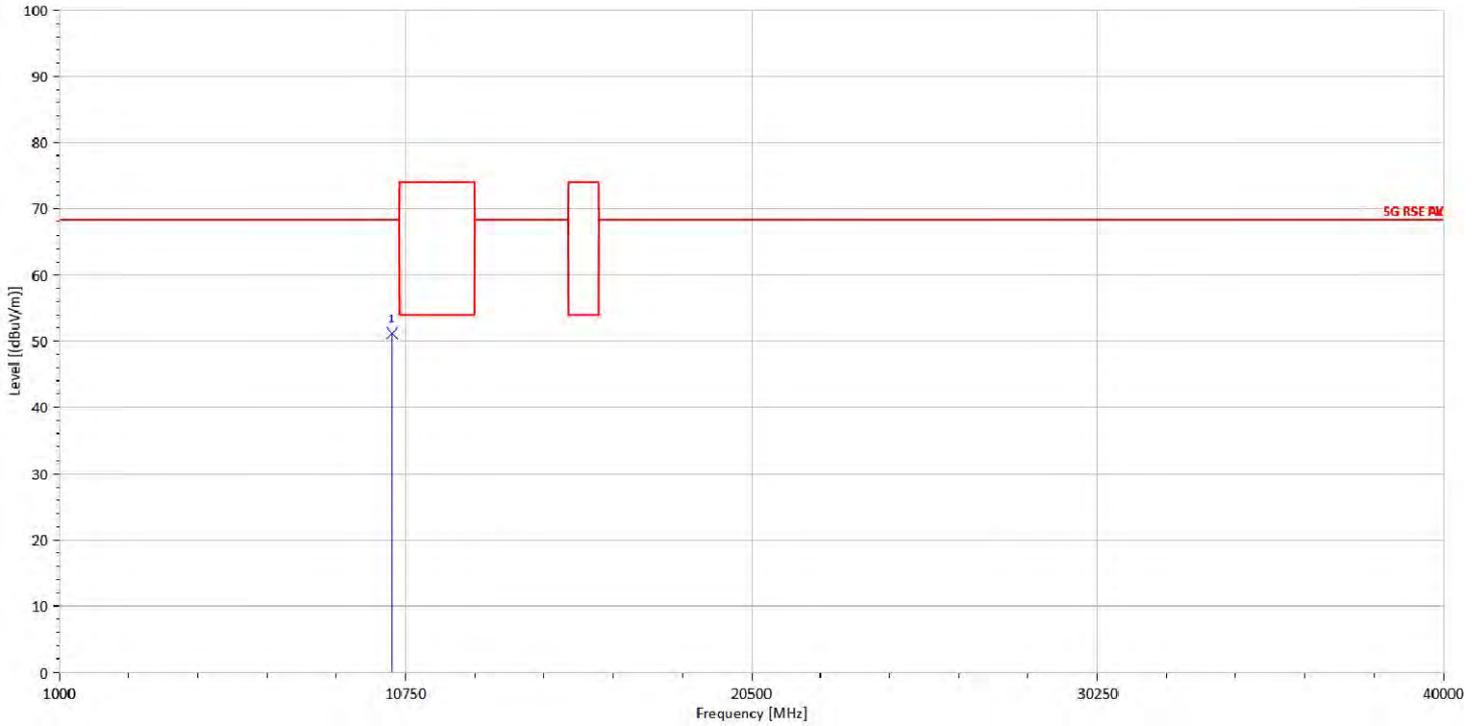
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10380.00	H	Peak	31.17	20.95	52.12	68.3	-16.18

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Operation Mode :	802.11n40	Test Date :	2017/2/18
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



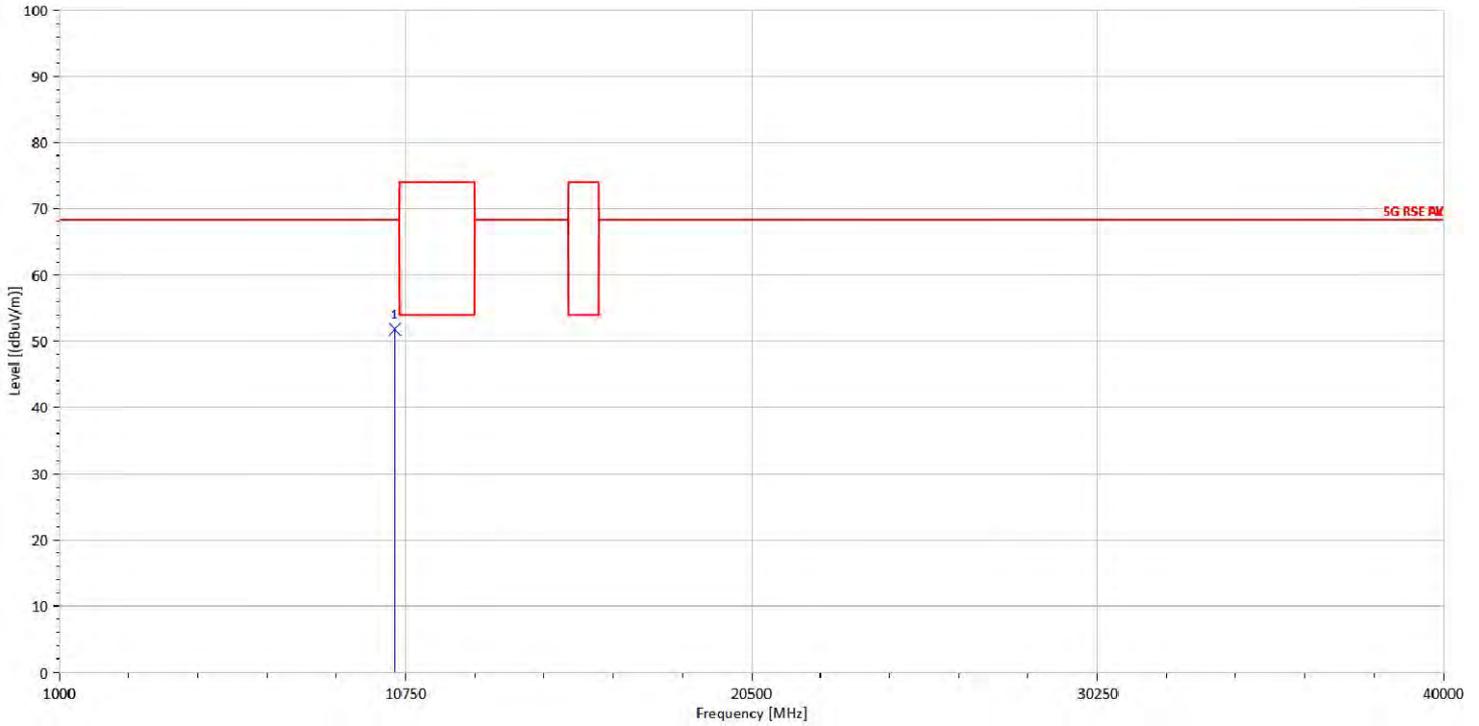
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10380.00	H	Peak	30.25	20.95	51.20	68.3	-17.10

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Operation Mode :	802.11n40	Test Date :	2017/2/18
Fundamental Frequency :	5230 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



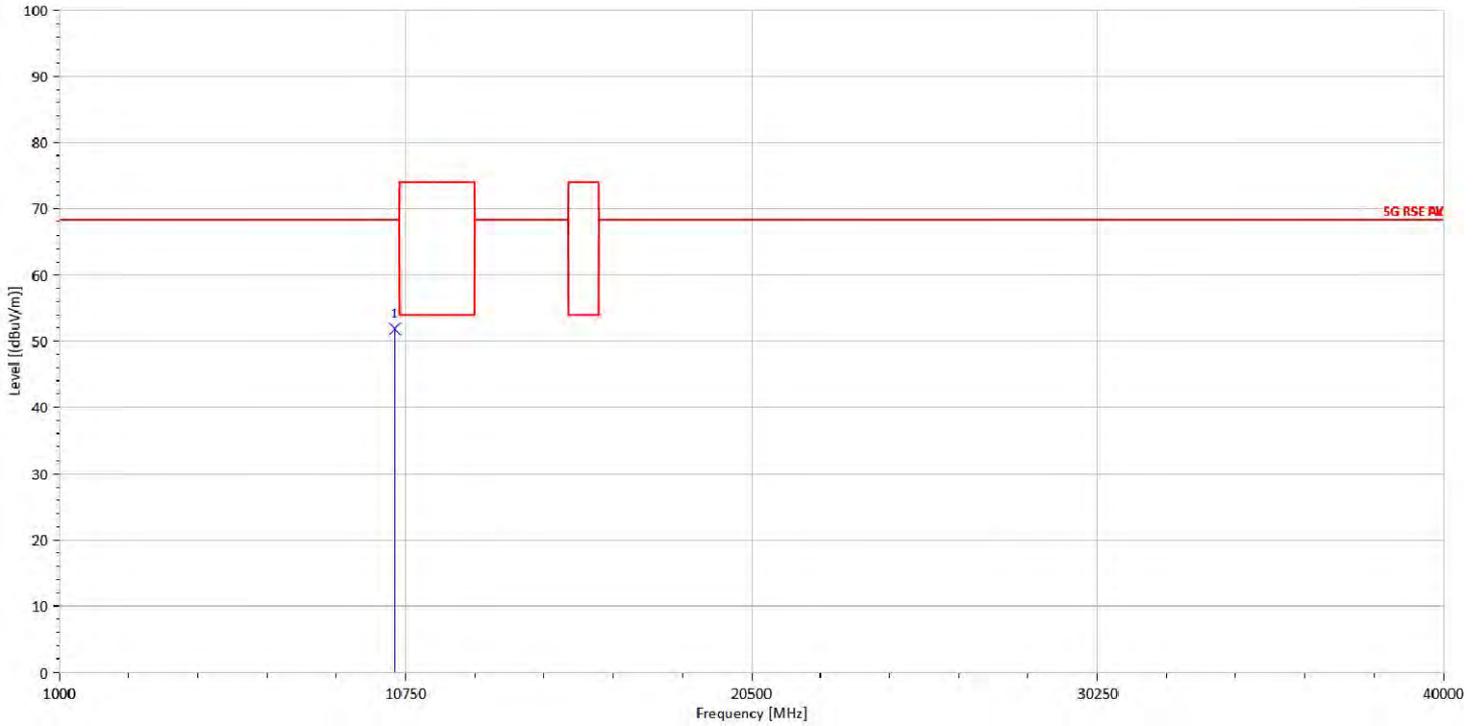
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10460.00	H	Peak	30.85	20.95	51.80	68.3	-16.50

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Operation Mode : 802.11n40 Test Date : 2017/2/18
 Fundamental Frequency : 5230 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Penny
 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
10460.00	H	Peak	30.91	20.95	51.87	68.3	-16.43

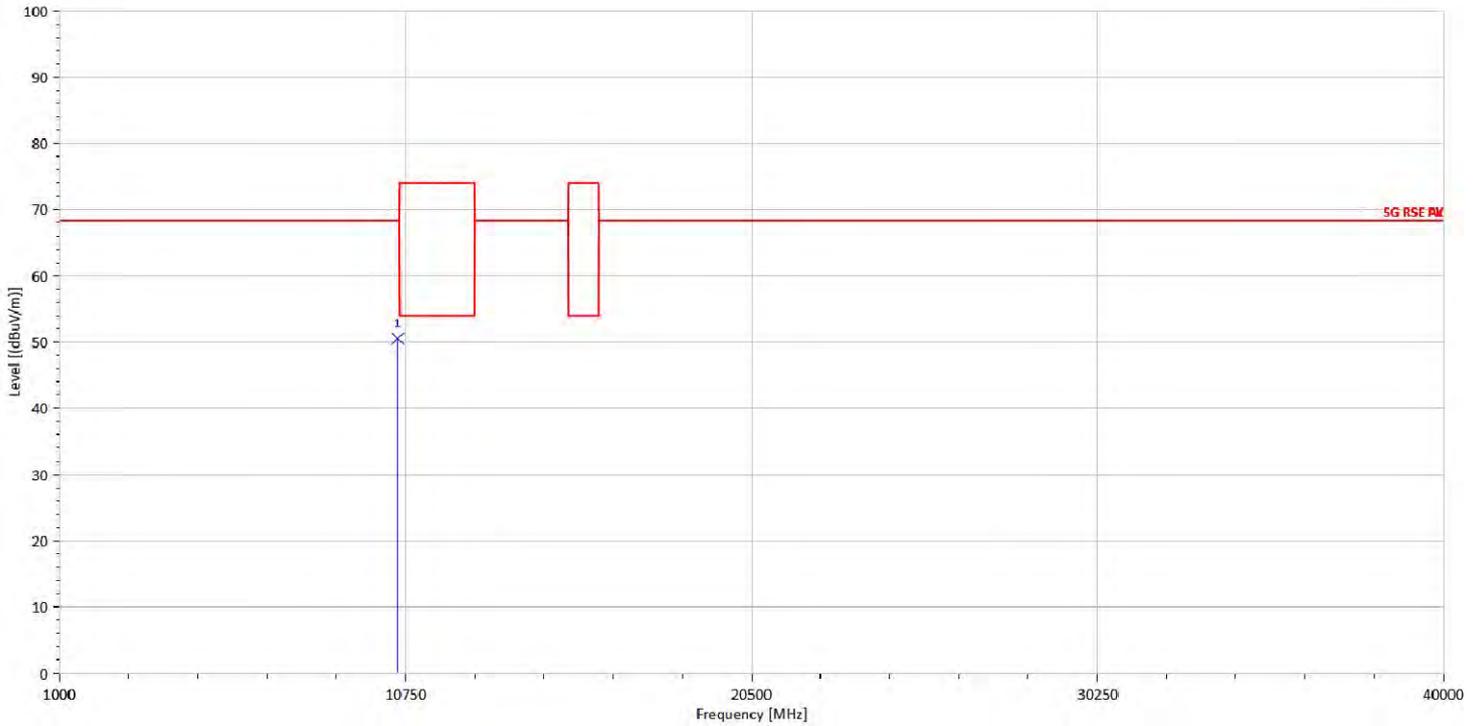
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Mode :	802.11n40	Test Date :	2017/2/18
Fundamental Frequency :	5270 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



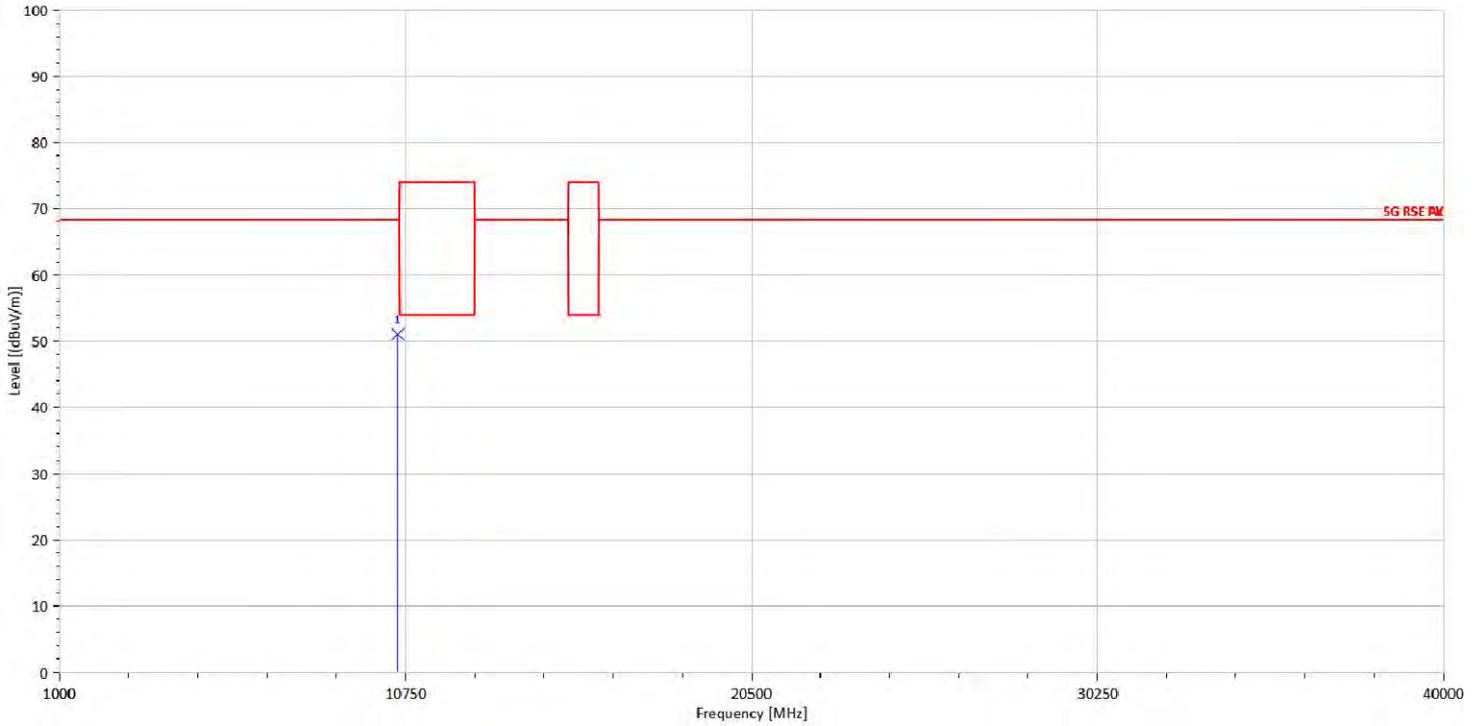
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10540.00	H	Peak	30.48	20.06	50.54	68.3	-17.76

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Operation Mode :	802.11n40	Test Date :	2017/2/18
Fundamental Frequency :	5270 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



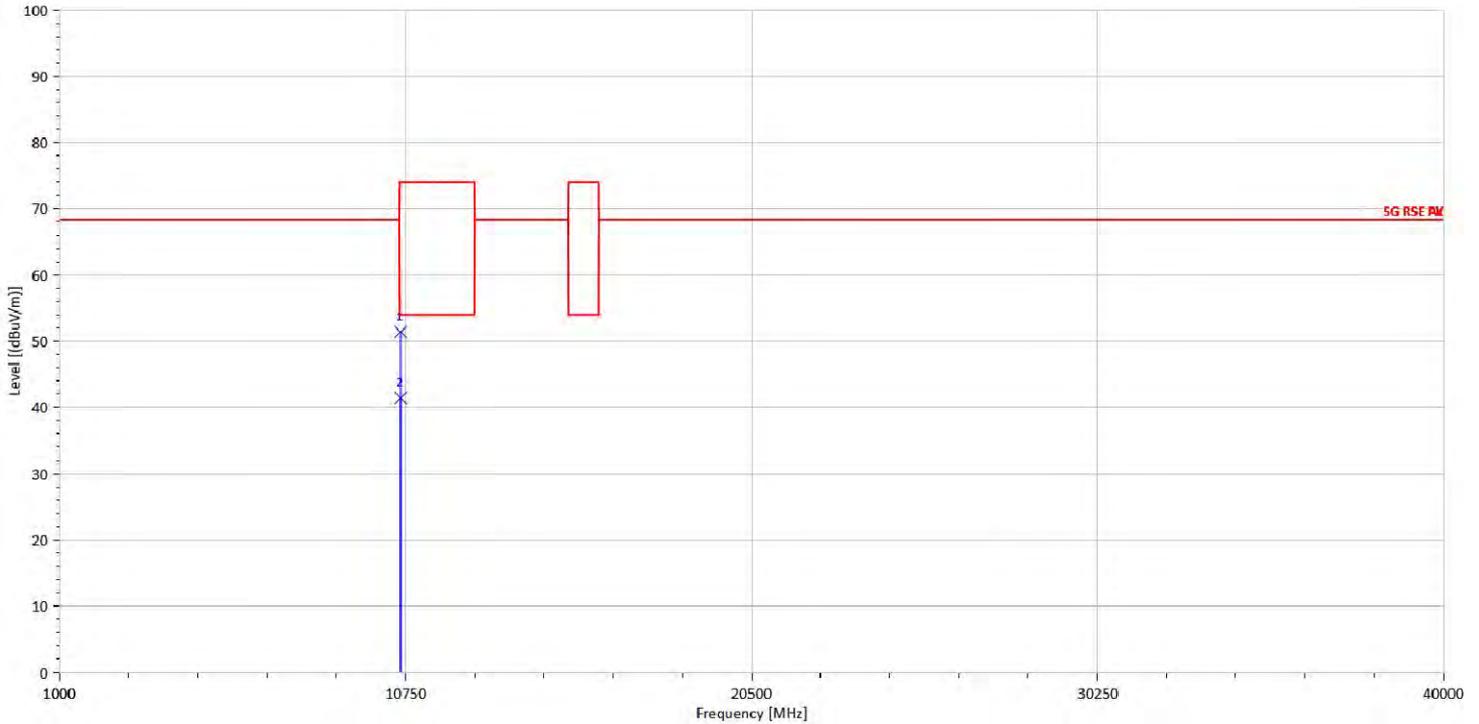
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10540.00	H	Peak	31.01	20.06	51.07	68.3	-17.23

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Operation Mode : 802.11n40 Test Date : 2017/2/18
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



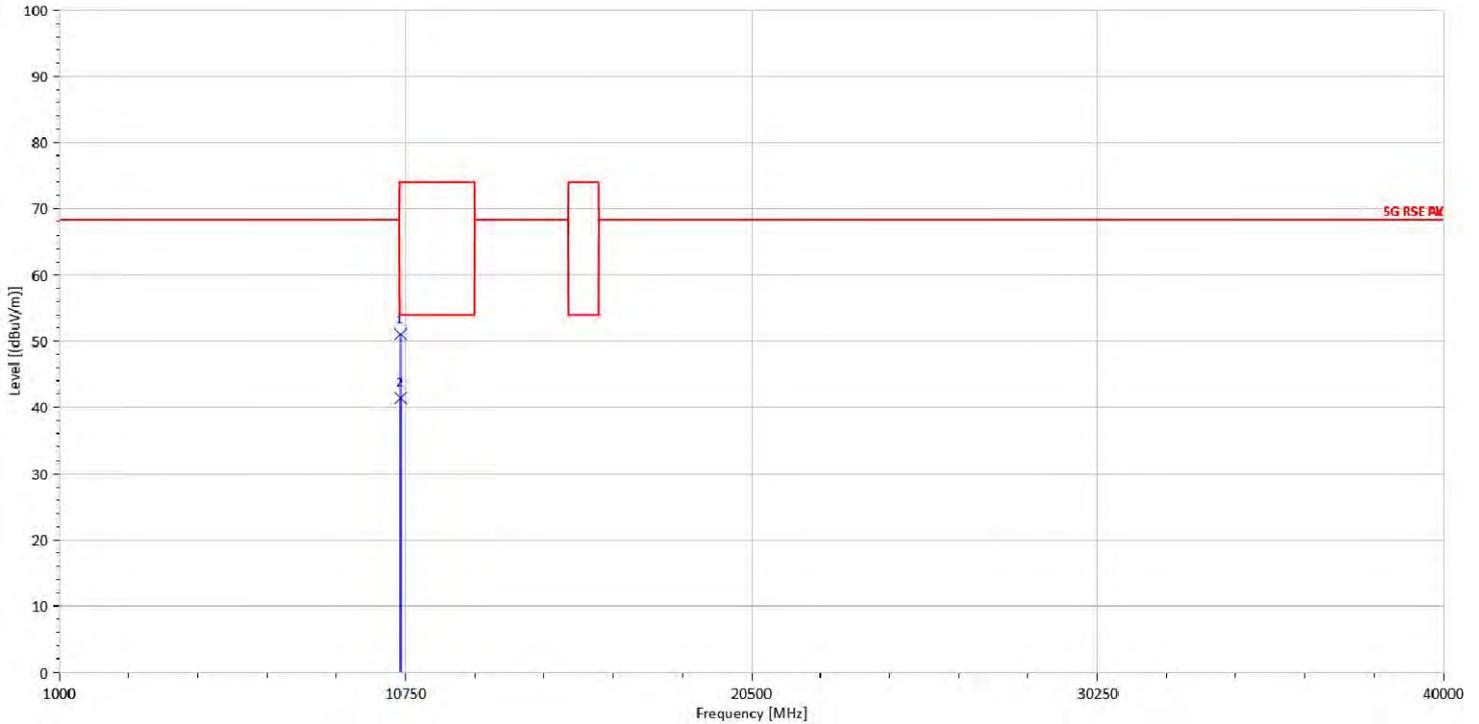
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.00	H	Peak	31.11	20.29	51.40	74	-22.60
10620.00	H	Average	21.14	20.29	41.43	54	-12.57

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Operation Mode : 802.11n40 Test Date : 2017/2/18
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10620.00	H	Peak	30.78	20.29	51.07	74	-22.93
10620.00	H	Average	21.15	20.29	41.44	54	-12.56

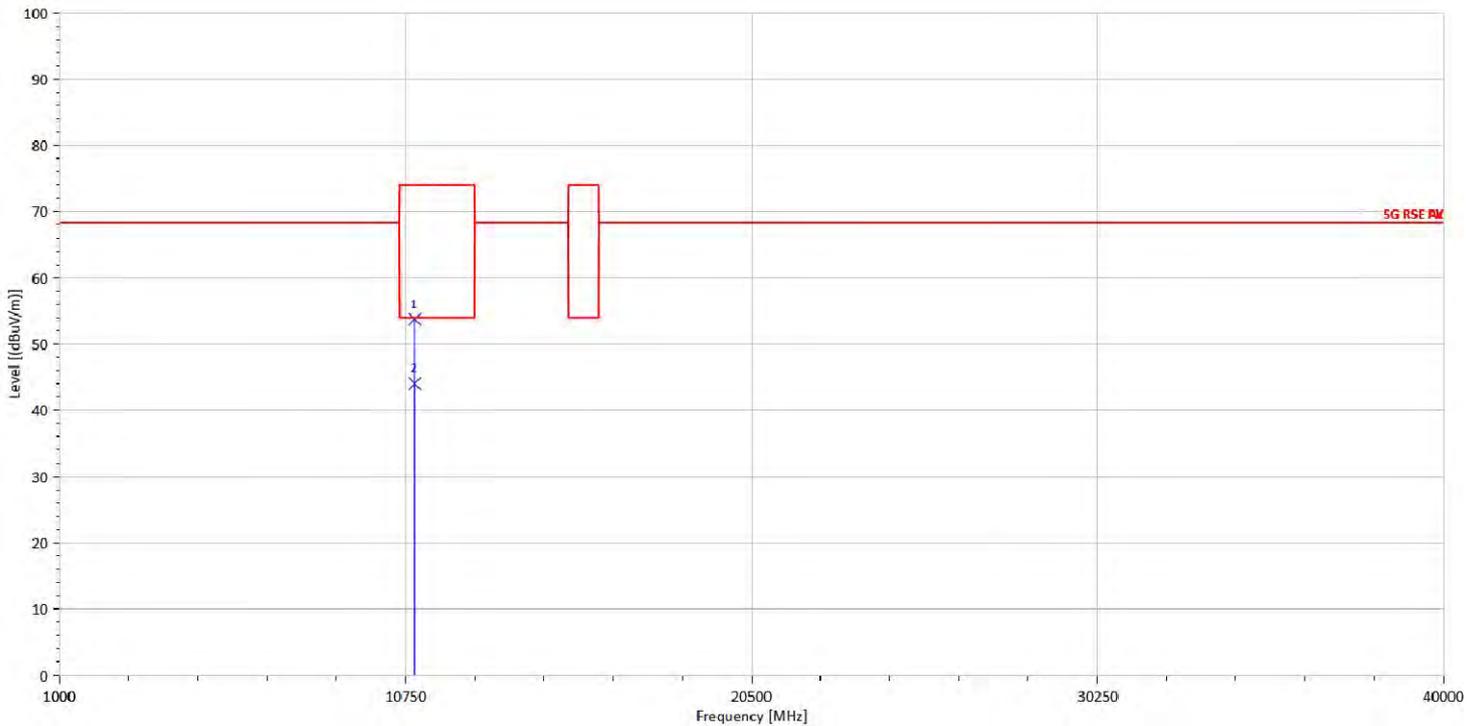
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Mode :	802.11n40	Test Date :	2017/2/18
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



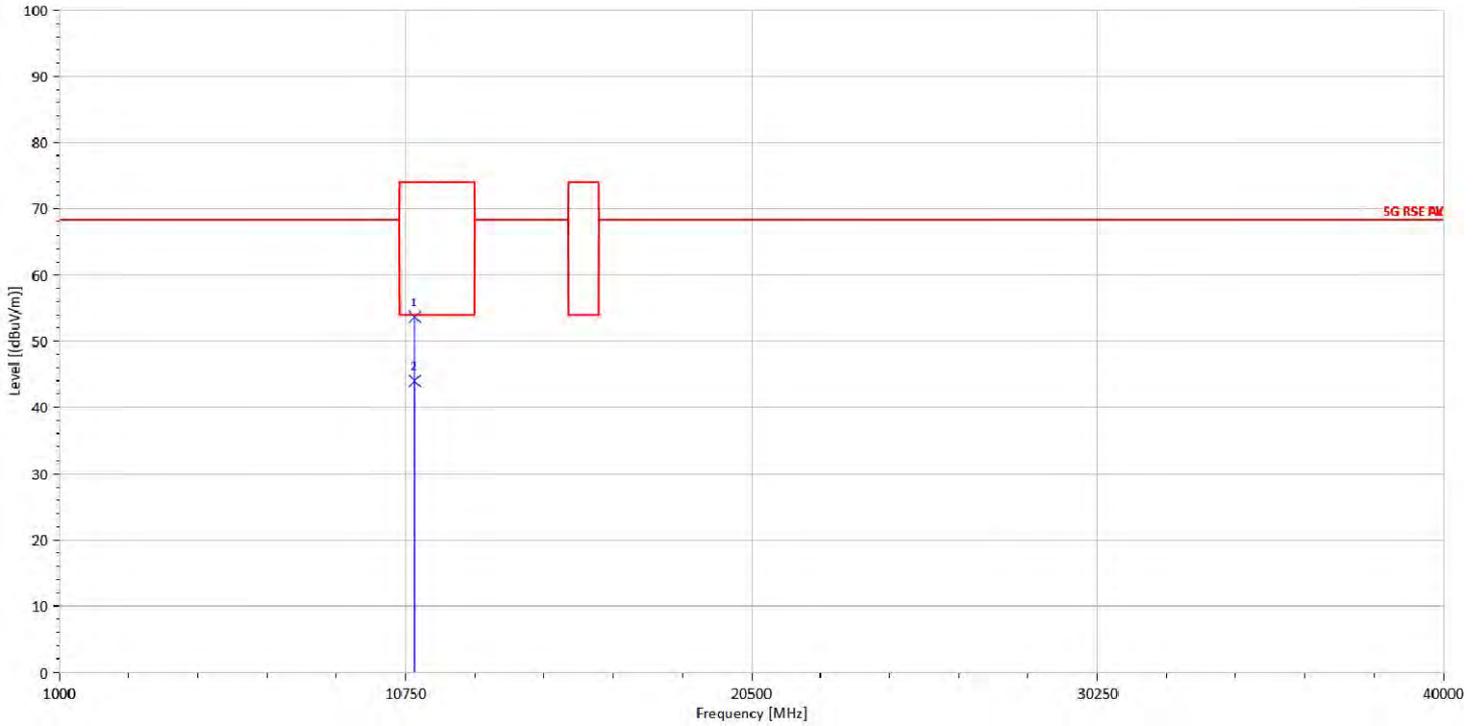
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11020.00	H	Peak	30.87	22.90	53.77	74	-20.23
11020.00	H	Average	21.14	22.90	44.04	54	-9.96

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Operation Mode : 802.11n40 Test Date : 2017/2/18
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



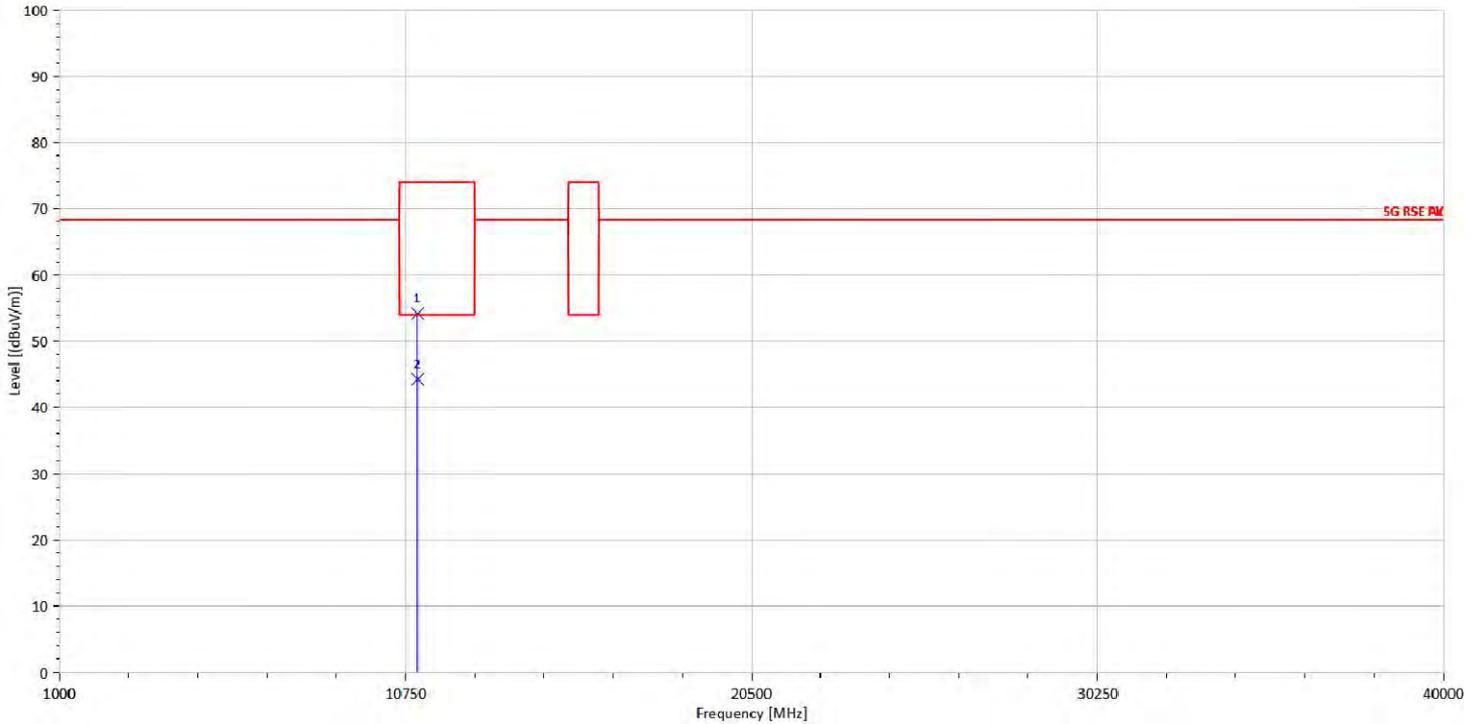
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11020.00	H	Peak	30.77	22.90	53.67	74	-20.33
11020.00	H	Average	21.11	22.90	44.01	54	-9.99

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Operation Mode : 802.11n40 Test Date : 2017/2/18
 Fundamental Frequency : 5550 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



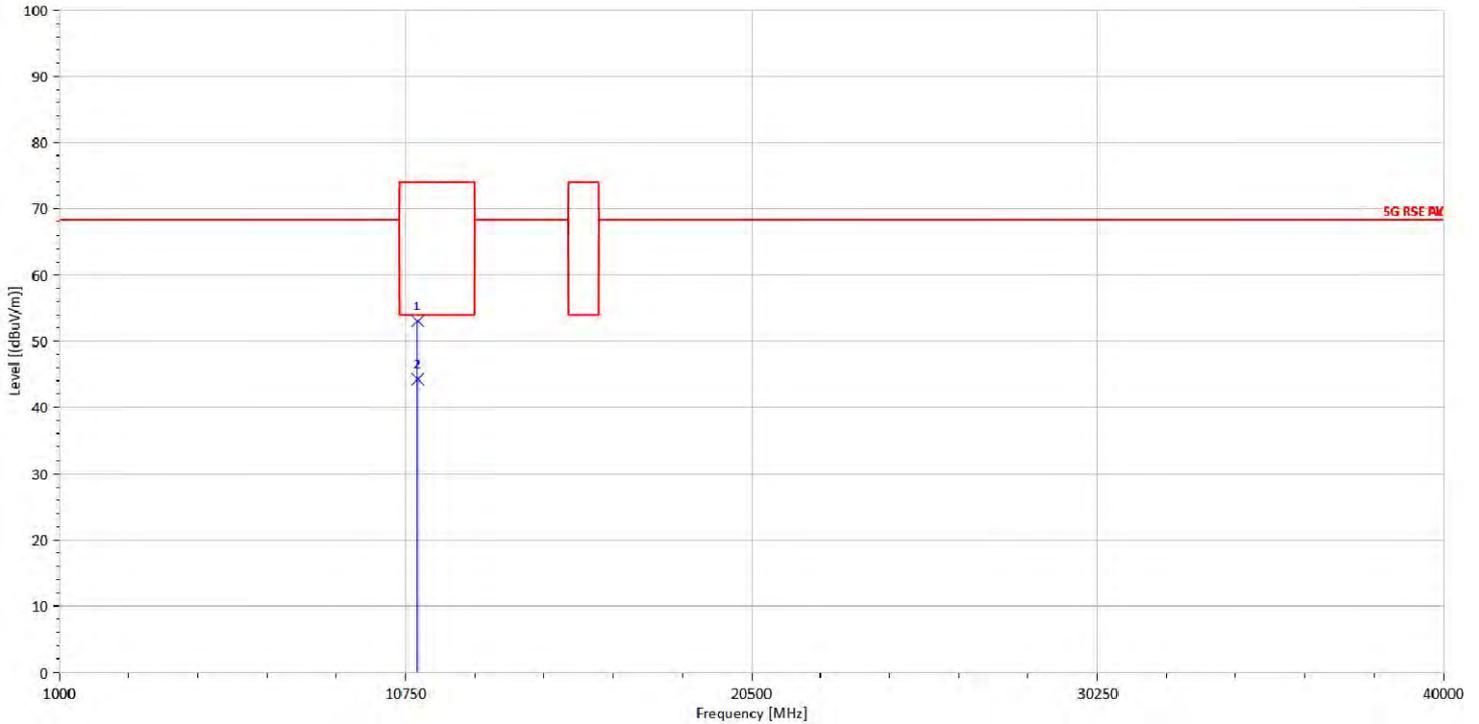
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11100.00	H	Peak	31.01	23.16	54.18	74	-19.82
11100.00	H	Average	21.10	23.16	44.26	54	-9.74

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Operation Mode : 802.11n40 Test Date : 2017/2/18
 Fundamental Frequency : 5550 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



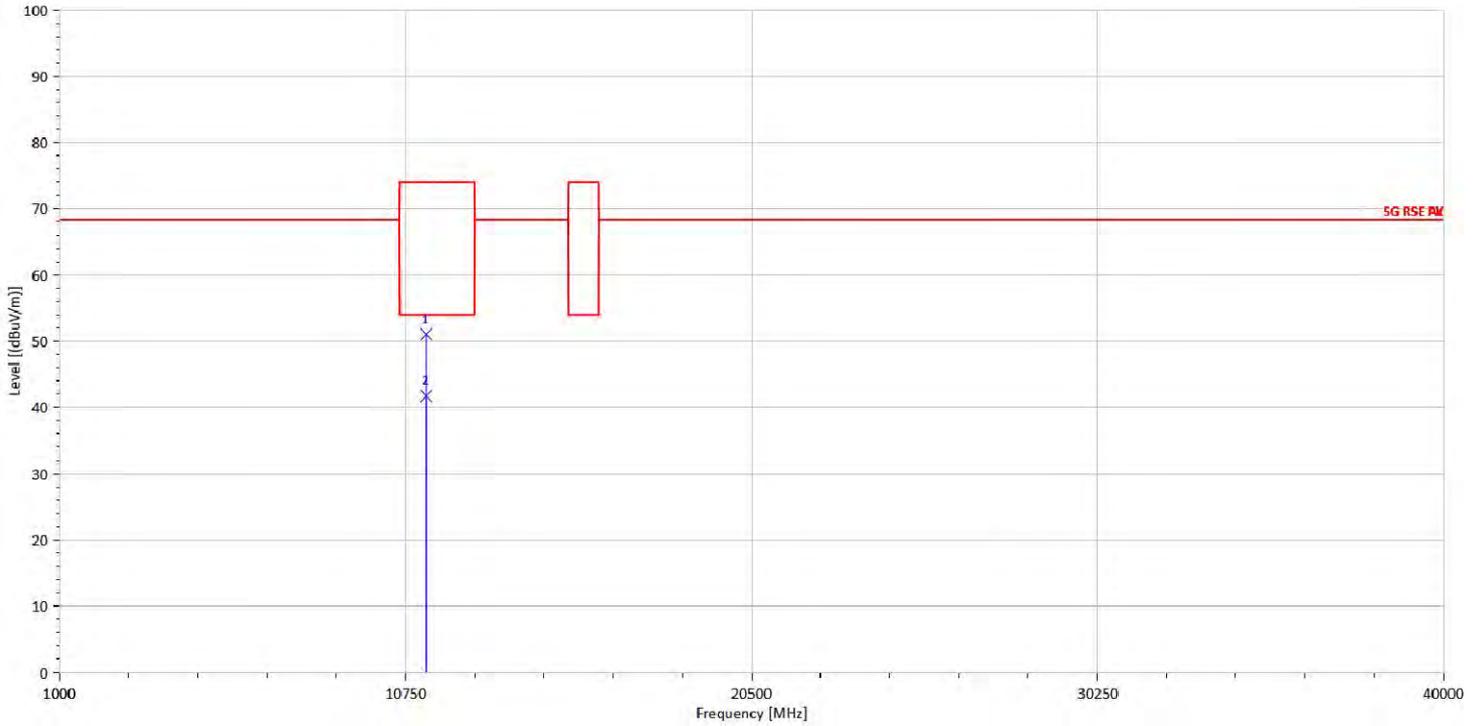
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	H	Peak	29.85	23.16	53.02	74	-20.98
11100.00	H	Average	21.11	23.16	44.27	54	-9.73

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Operation Mode : 802.11n40 Test Date : 2017/2/18
 Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



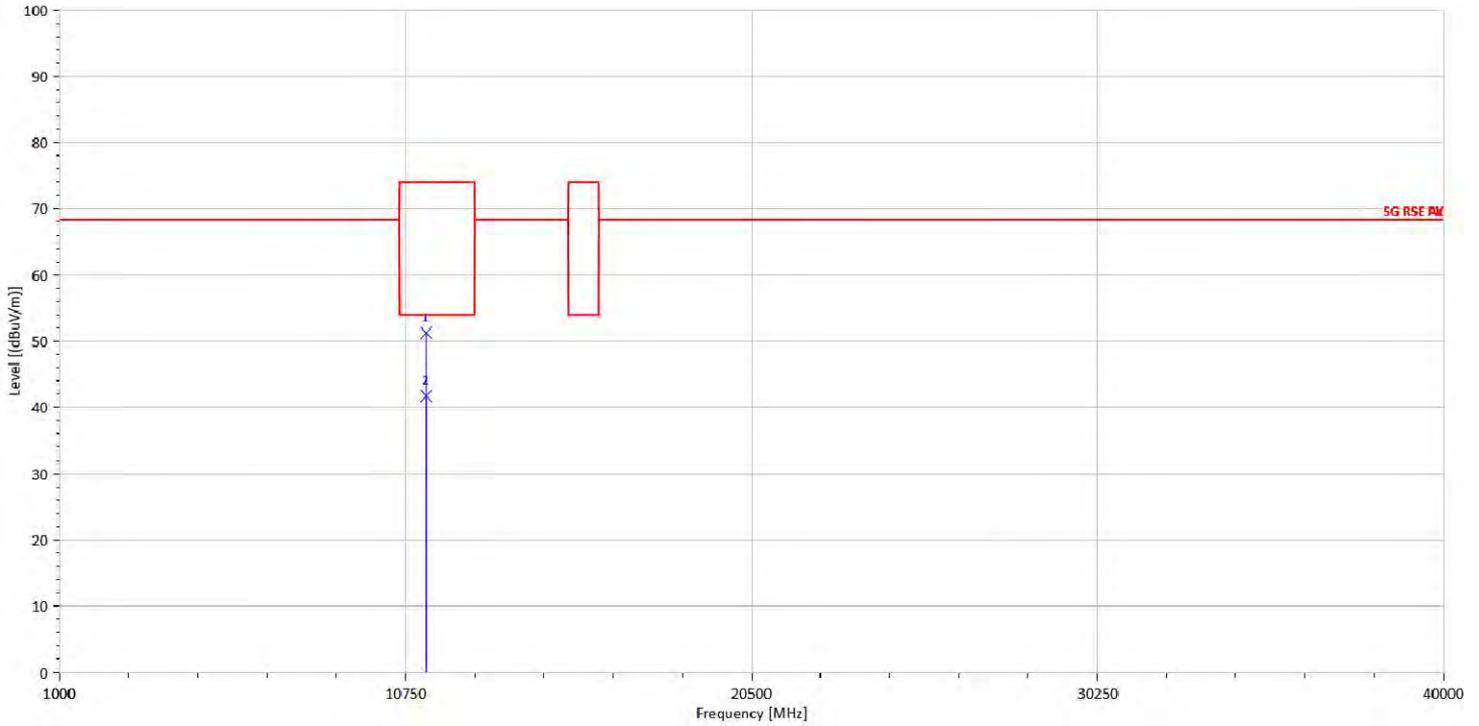
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11340.00	H	Peak	30.10	20.97	51.07	74	-22.93
11340.00	H	Average	20.77	20.97	41.74	54	-12.26

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Operation Mode : 802.11n40 Test Date : 2017/2/18
 Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11340.00	H	Peak	30.29	20.97	51.25	74	-22.75
11340.00	H	Average	20.77	20.97	41.74	54	-12.26

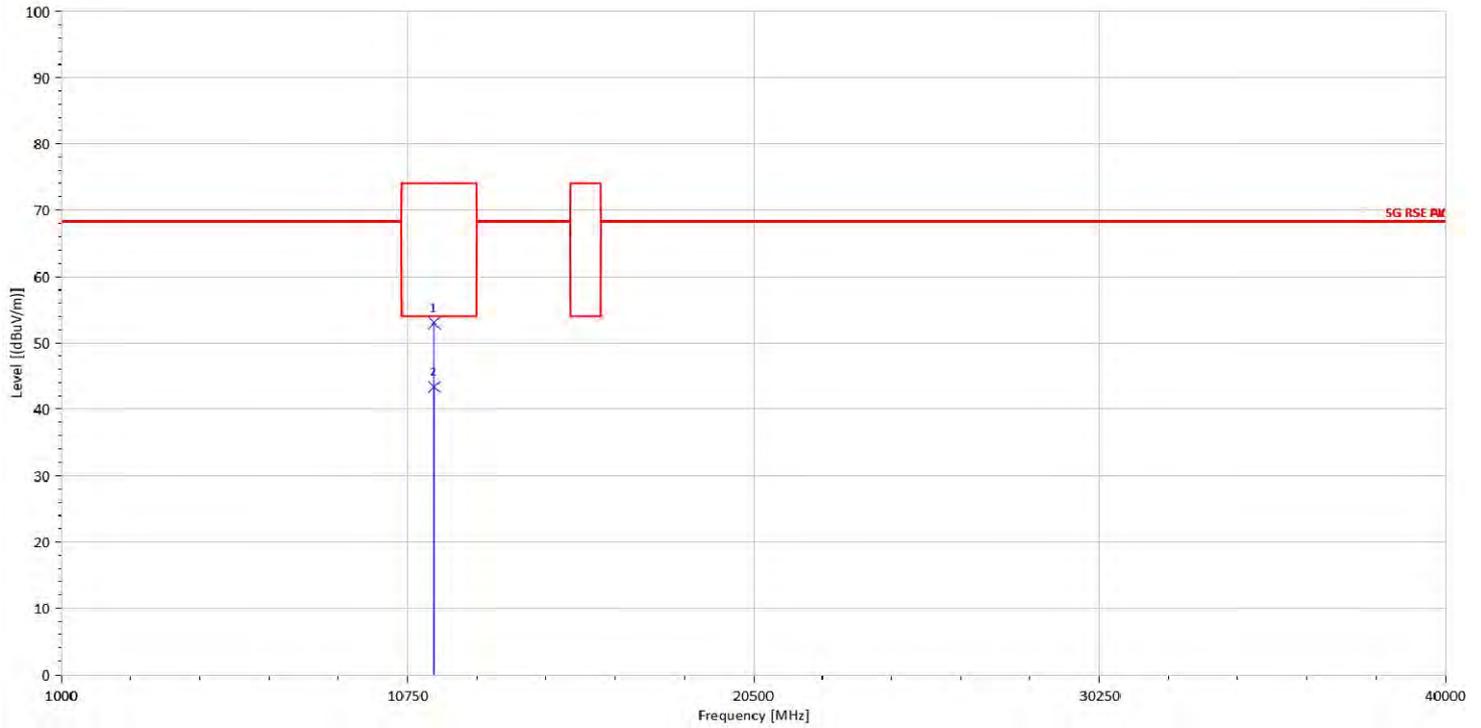
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode :	802.11n40	Test Date :	2017/2/18
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



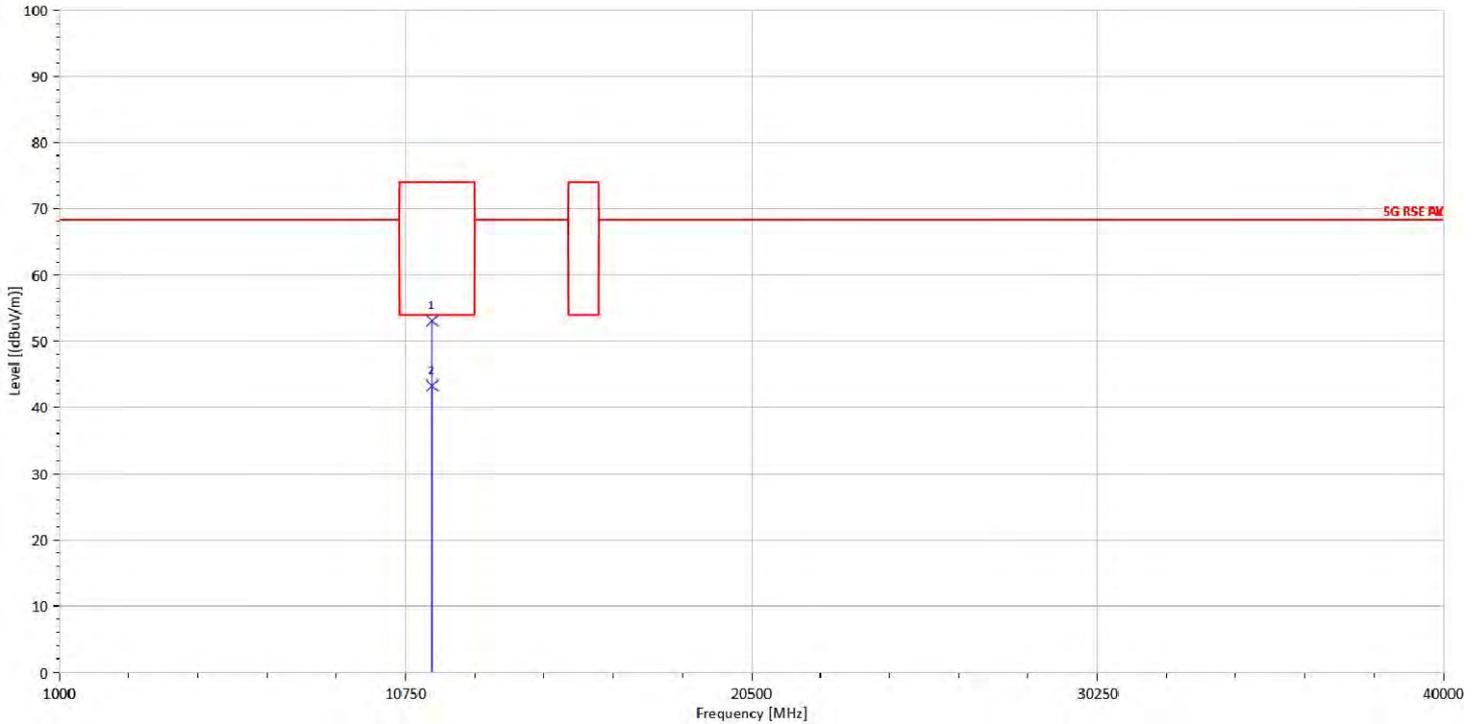
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11510.00	H	Peak	30.85	22.17	53.02	74	-20.98
11510.00	H	Average	21.19	22.17	43.36	54	-10.64

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Operation Mode : 802.11n40 Test Date : 2017/2/18
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



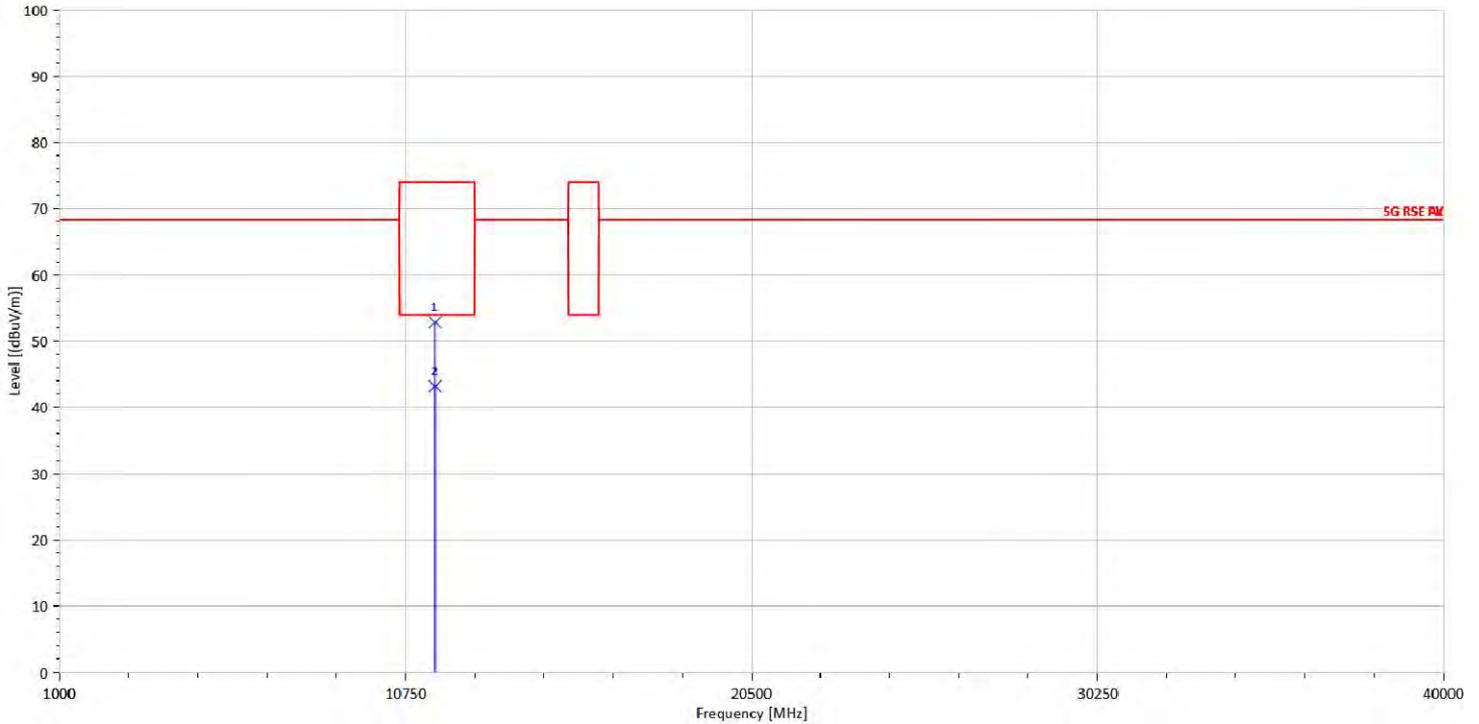
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11510.00	H	Peak	30.91	22.17	53.07	74	-20.93
11510.00	H	Average	21.13	22.17	43.30	54	-10.70

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Operation Mode : 802.11n40 Test Date : 2017/2/18
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Penny
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



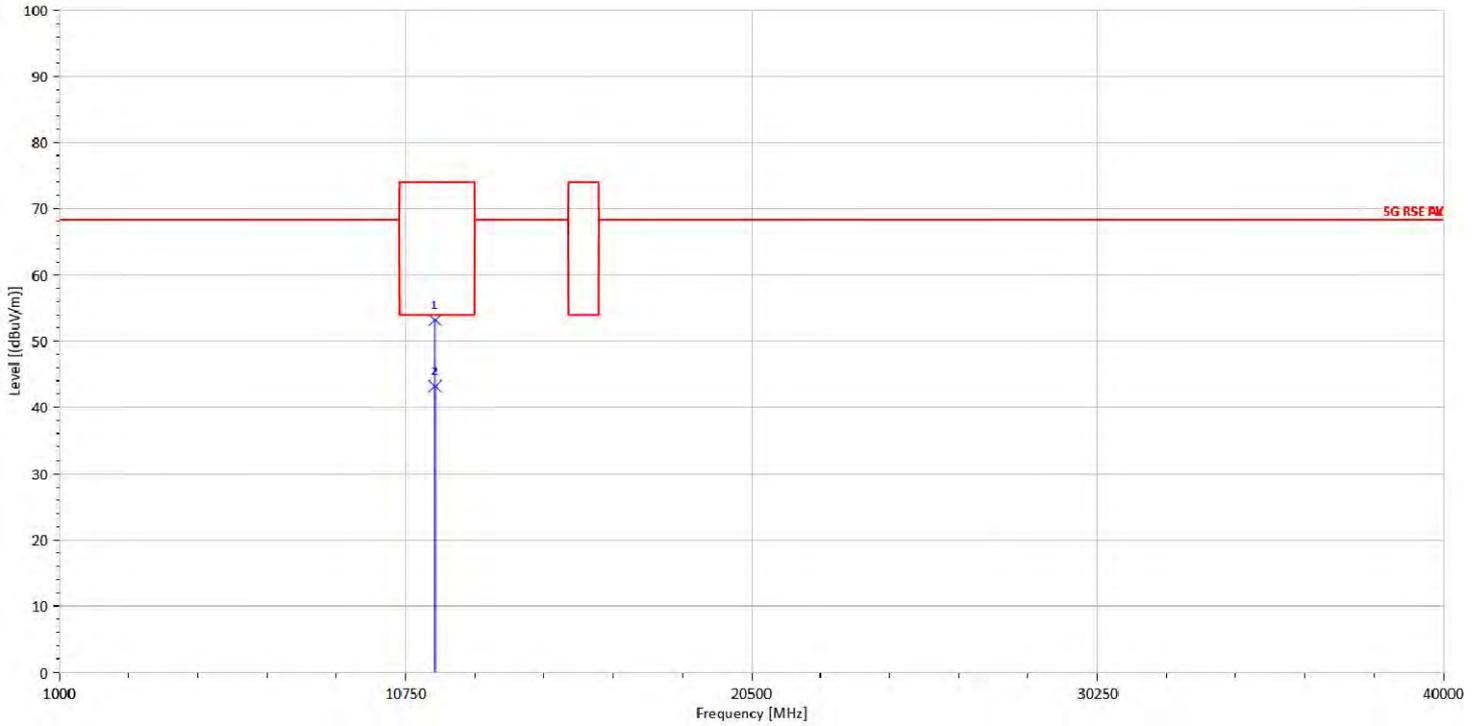
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11590.00	H	Peak	31.01	21.84	52.85	74	-21.15
11590.00	H	Average	21.37	21.84	43.21	54	-10.79

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Operation Mode :	802.11n40	Test Date :	2017/2/18
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	H	Peak	31.36	21.84	53.20	74	-20.80
11590.00	H	Average	21.38	21.84	43.22	54	-10.78

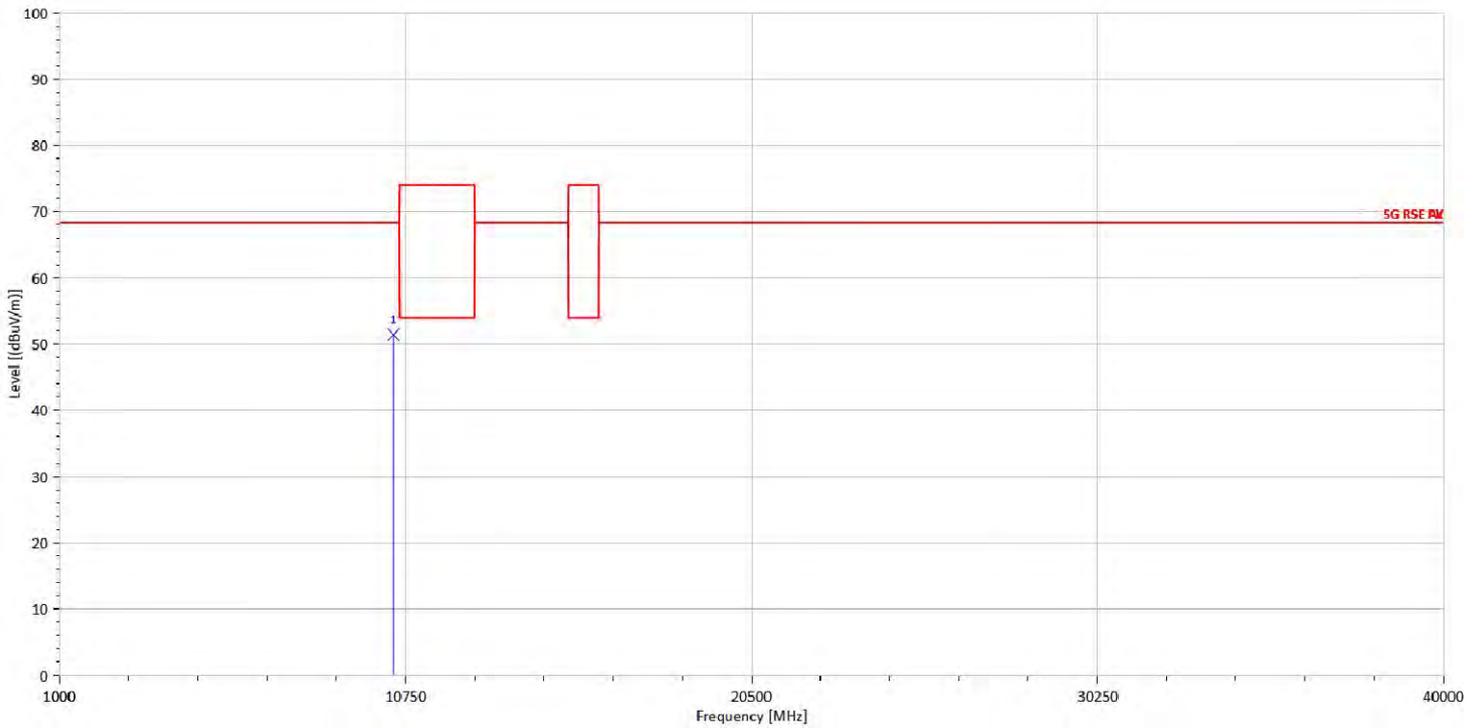
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode :	802.11ac80	Test Date :	2017/2/18
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



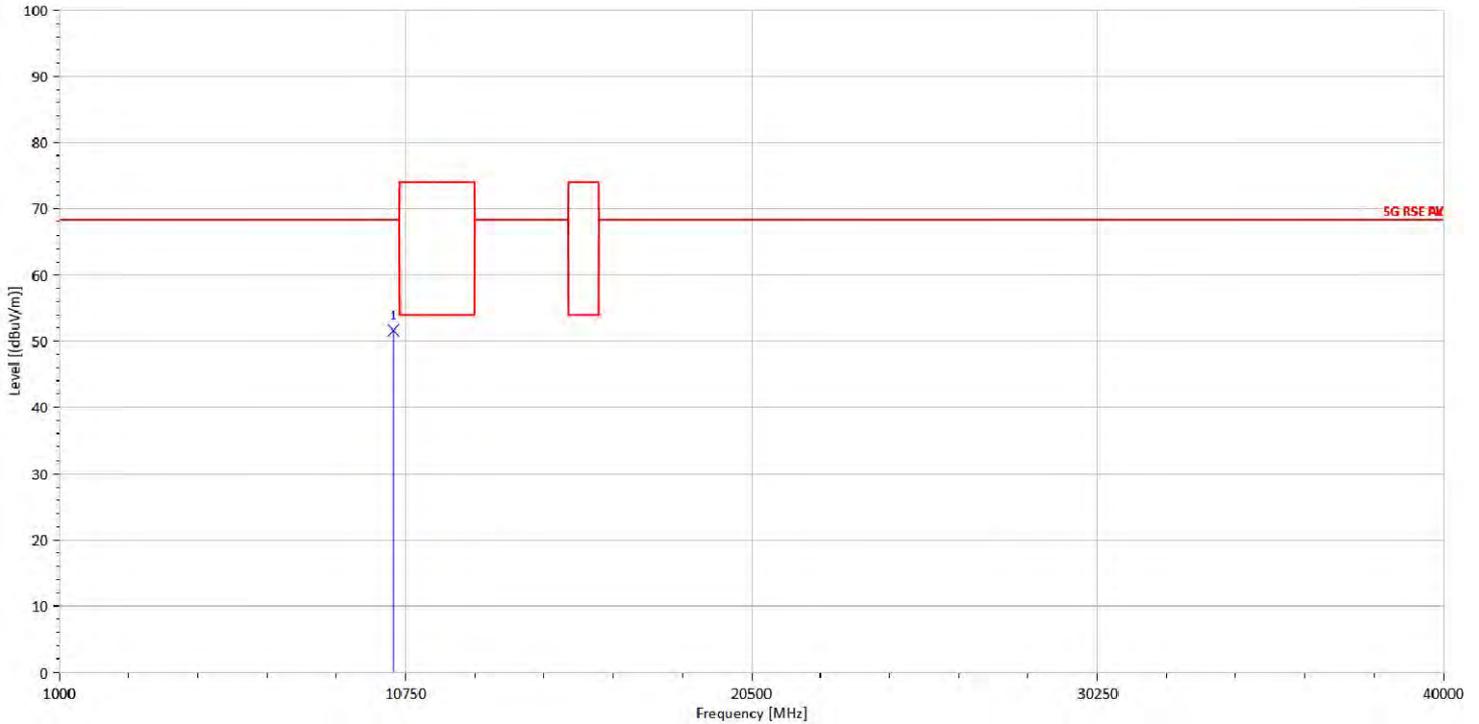
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10420.00	H	Peak	30.75	20.67	51.42	68.3	-16.88

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Operation Mode :	802.11ac80	Test Date :	2017/2/18
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Penny
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
10420.00	H	Peak	30.97	20.67	51.64	68.3	-16.66

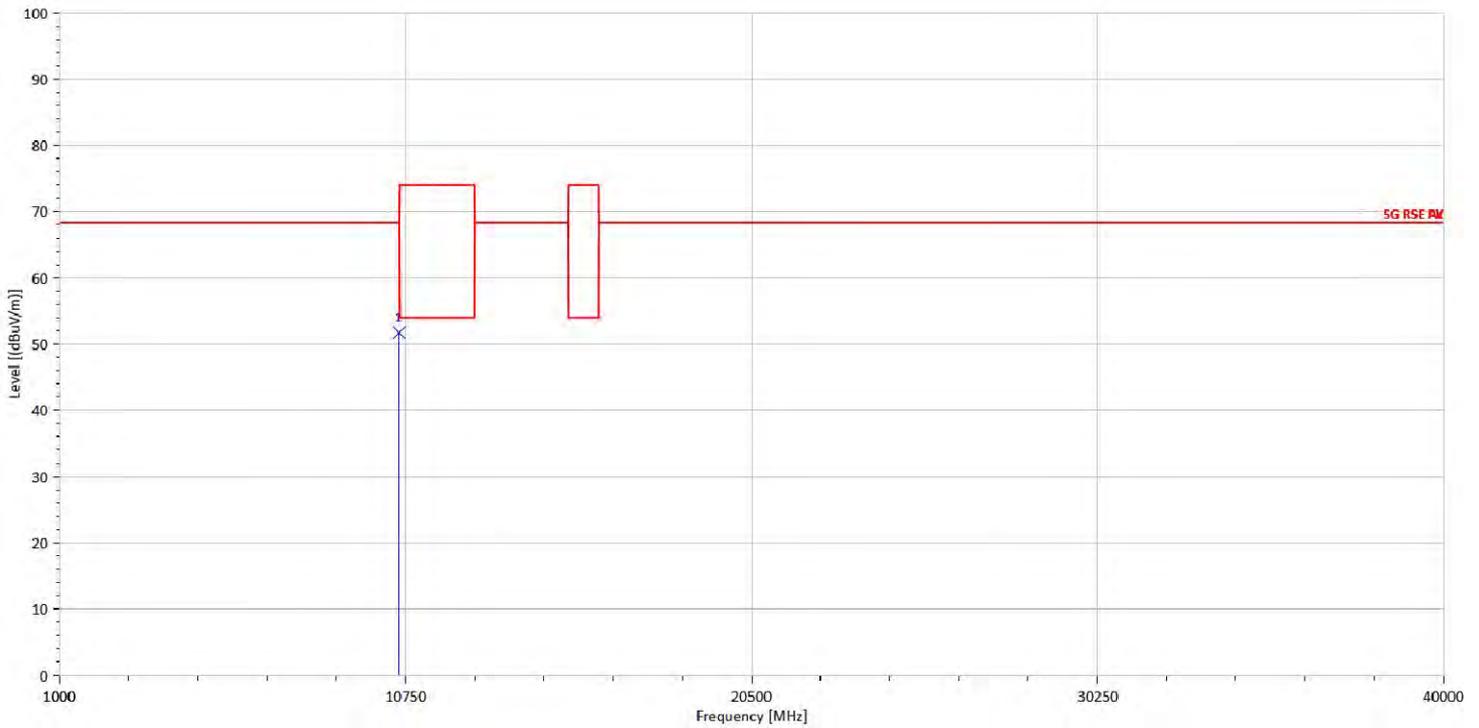
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Mode :	802.11ac80	Test Date :	2017/2/18
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



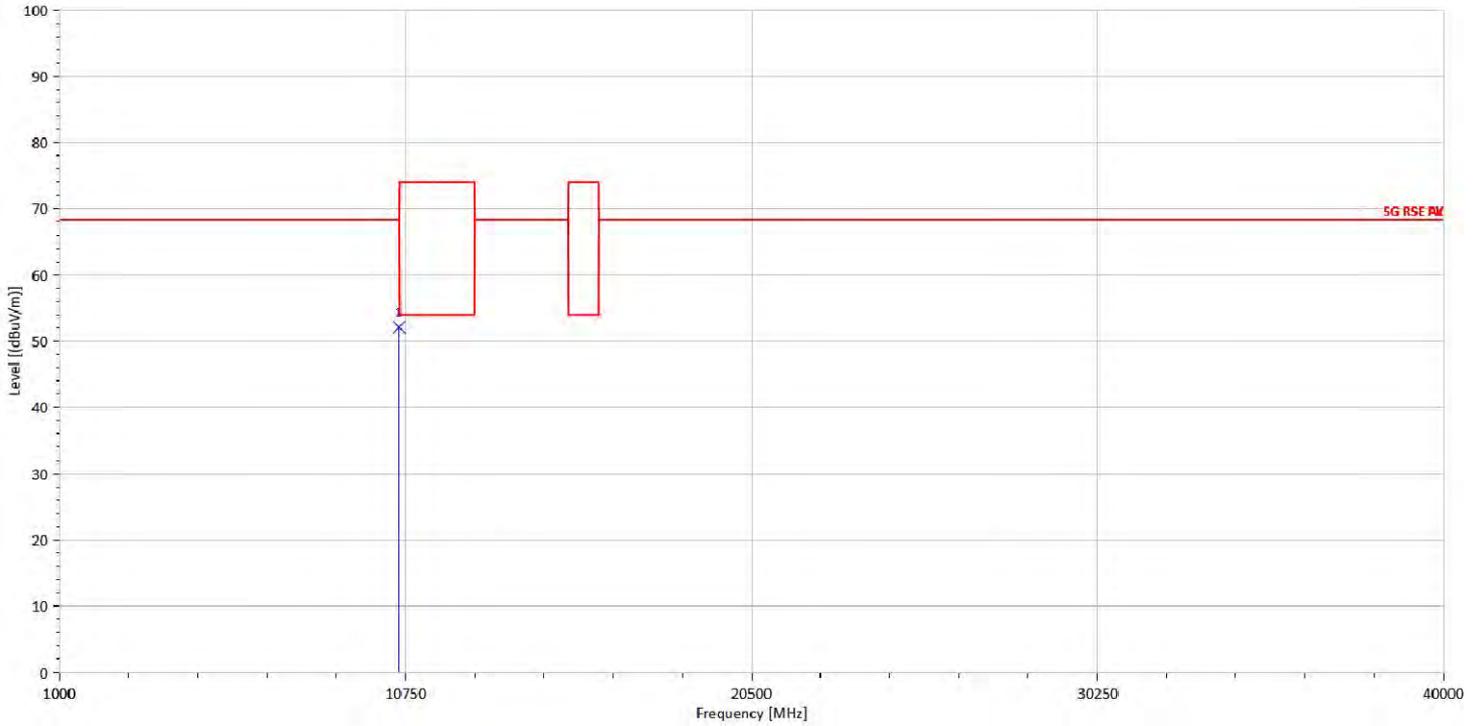
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10580.00	H	Peak	31.59	20.12	51.71	68.3	-16.59

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Operation Mode :	802.11ac80	Test Date :	2017/2/18
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Penny
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
10580.00	H	Peak	31.99	20.12	52.11	68.3	-16.19

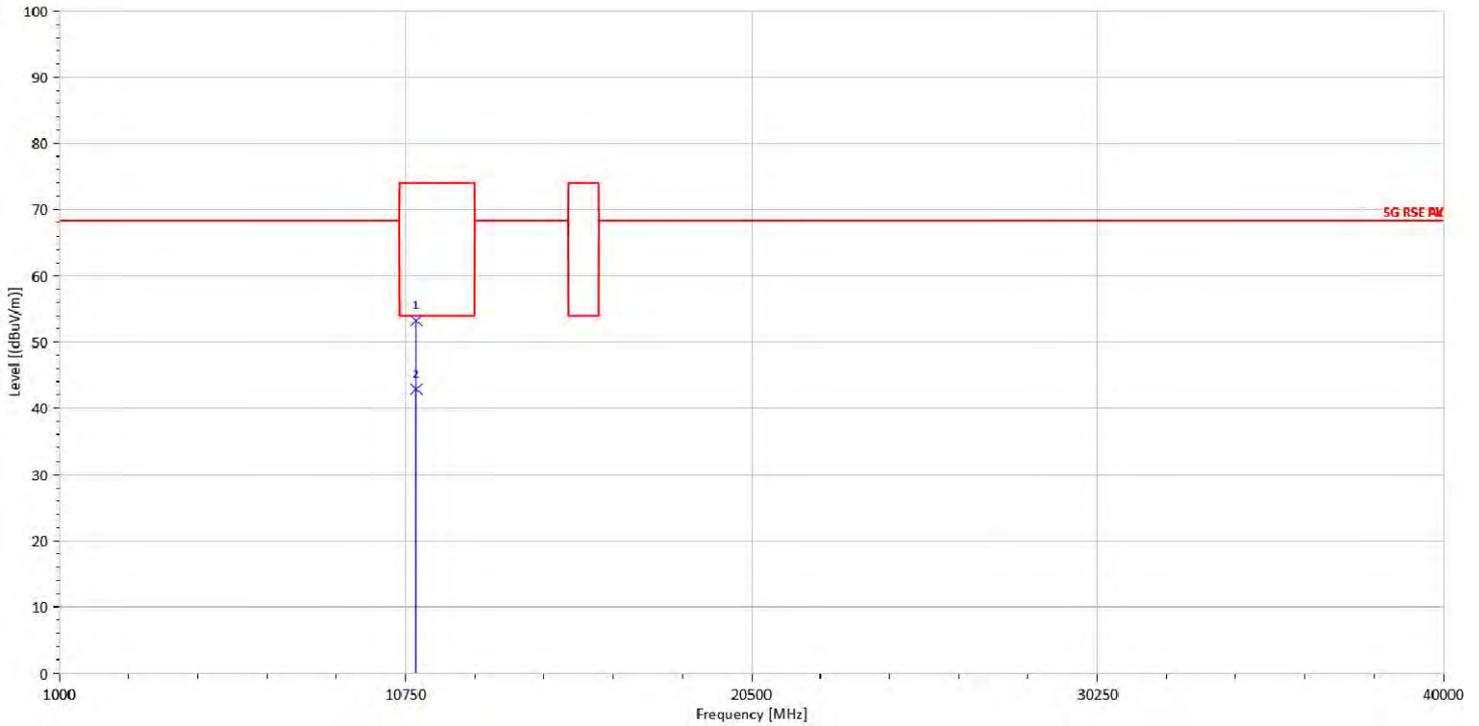
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Mode :	802.11ac80	Test Date :	2017/2/18
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



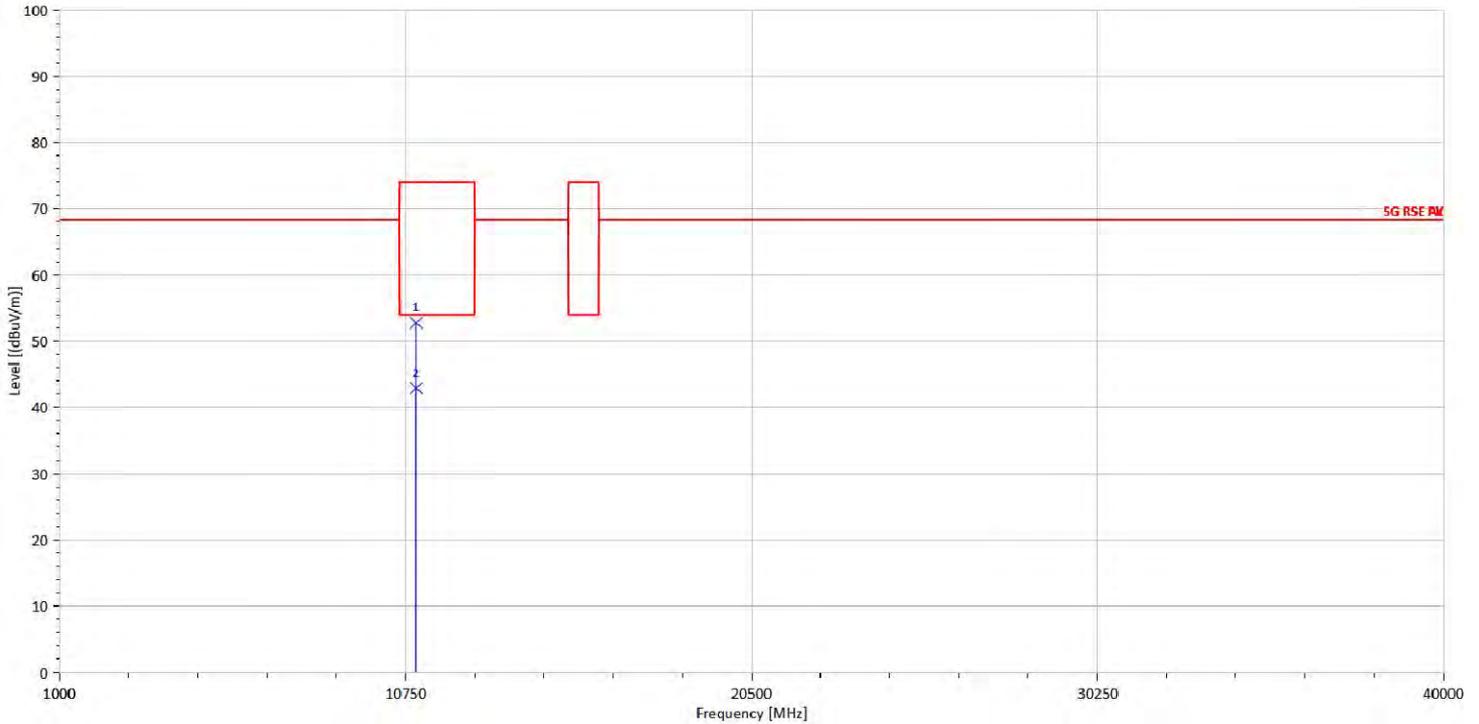
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11060.00	H	Peak	31.40	21.83	53.23	74	-20.77
11060.00	H	Average	21.08	21.83	42.91	54	-11.09

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Operation Mode :	802.11ac80	Test Date :	2017/2/18
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



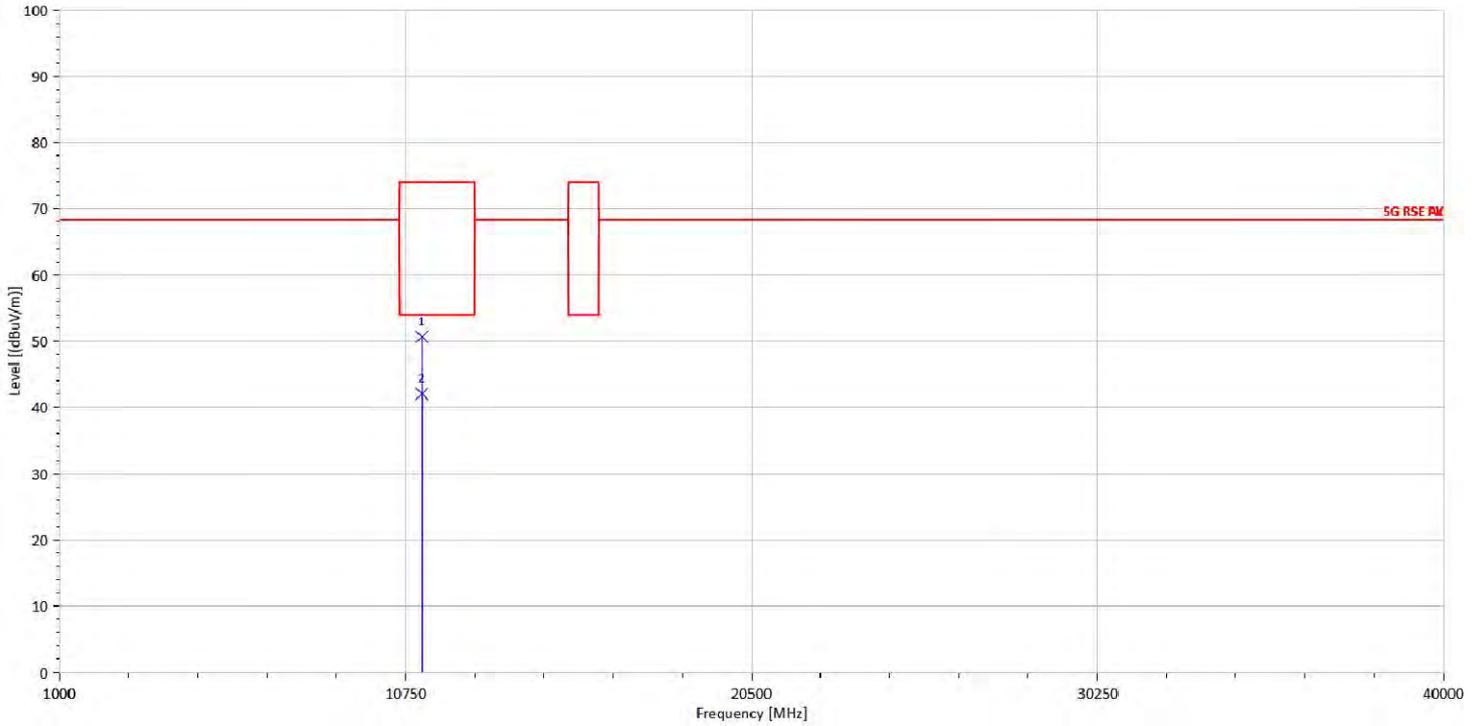
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11060.00	H	Peak	30.93	21.83	52.76	74	-21.24
11060.00	H	Average	21.10	21.83	42.93	54	-11.07

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Operation Mode :	802.11ac80	Test Date :	2017/2/18
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



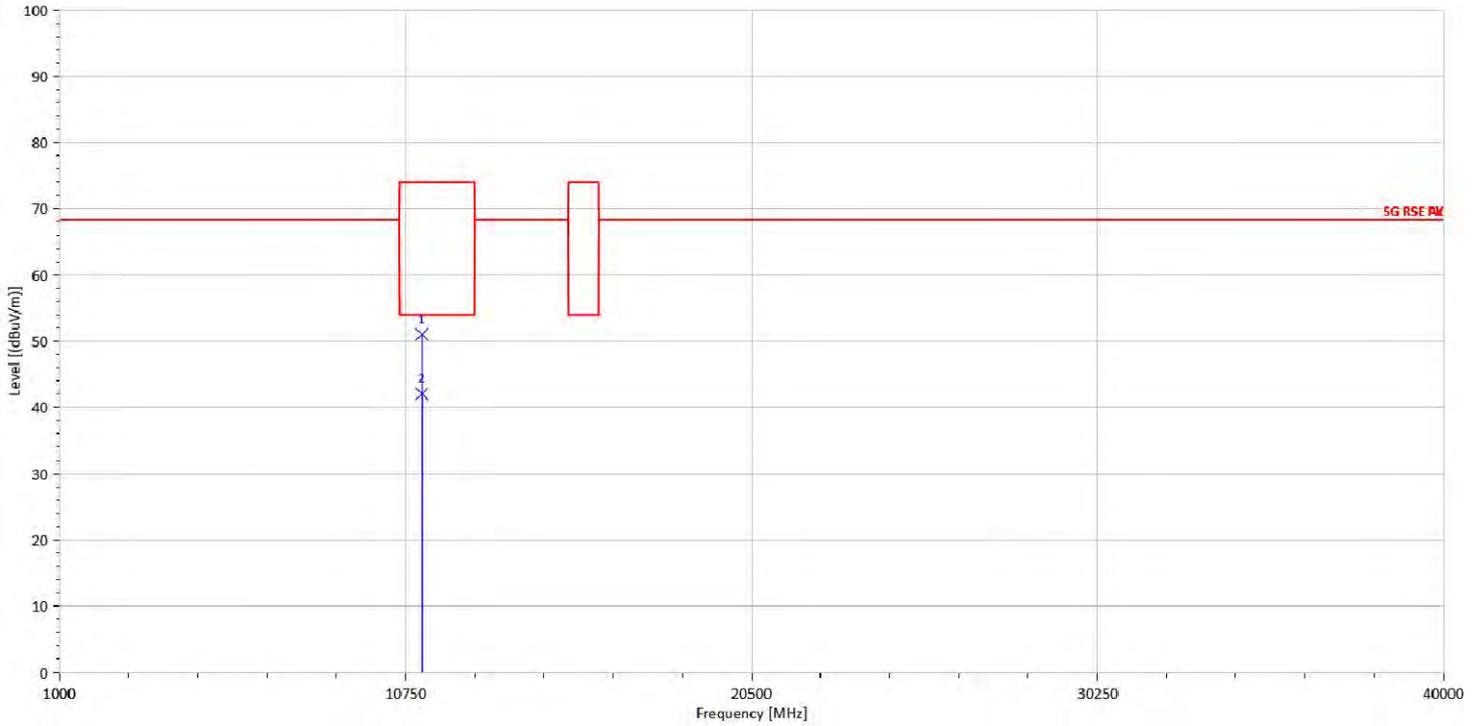
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11220.00	H	Peak	29.36	21.32	50.67	74	-23.33
11220.00	H	Average	20.74	21.32	42.06	54	-11.94

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Operation Mode :	802.11ac80	Test Date :	2017/2/18
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11220.00	H	Peak	29.73	21.32	51.05	74	-22.95
11220.00	H	Average	20.74	21.32	42.06	54	-11.94

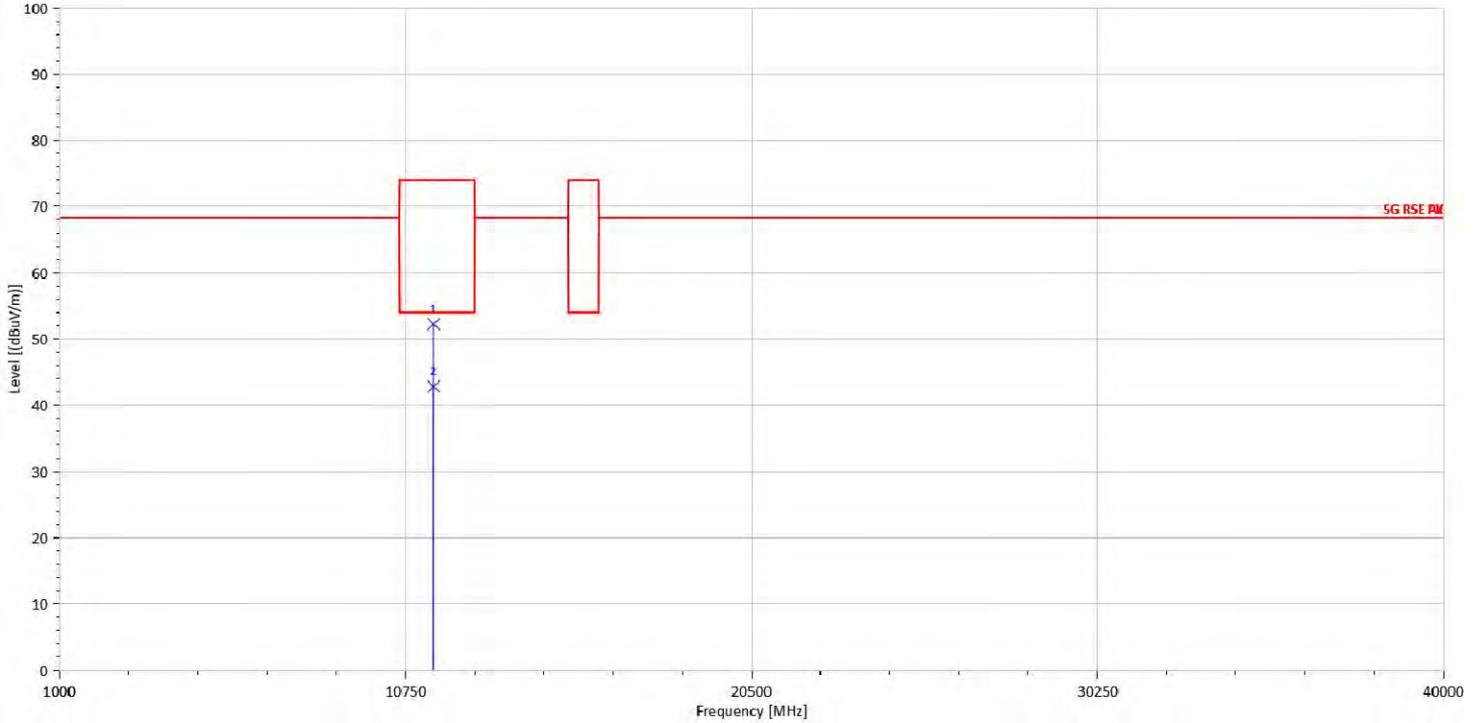
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Mode :	802.11ac80	Test Date :	2017/2/18
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



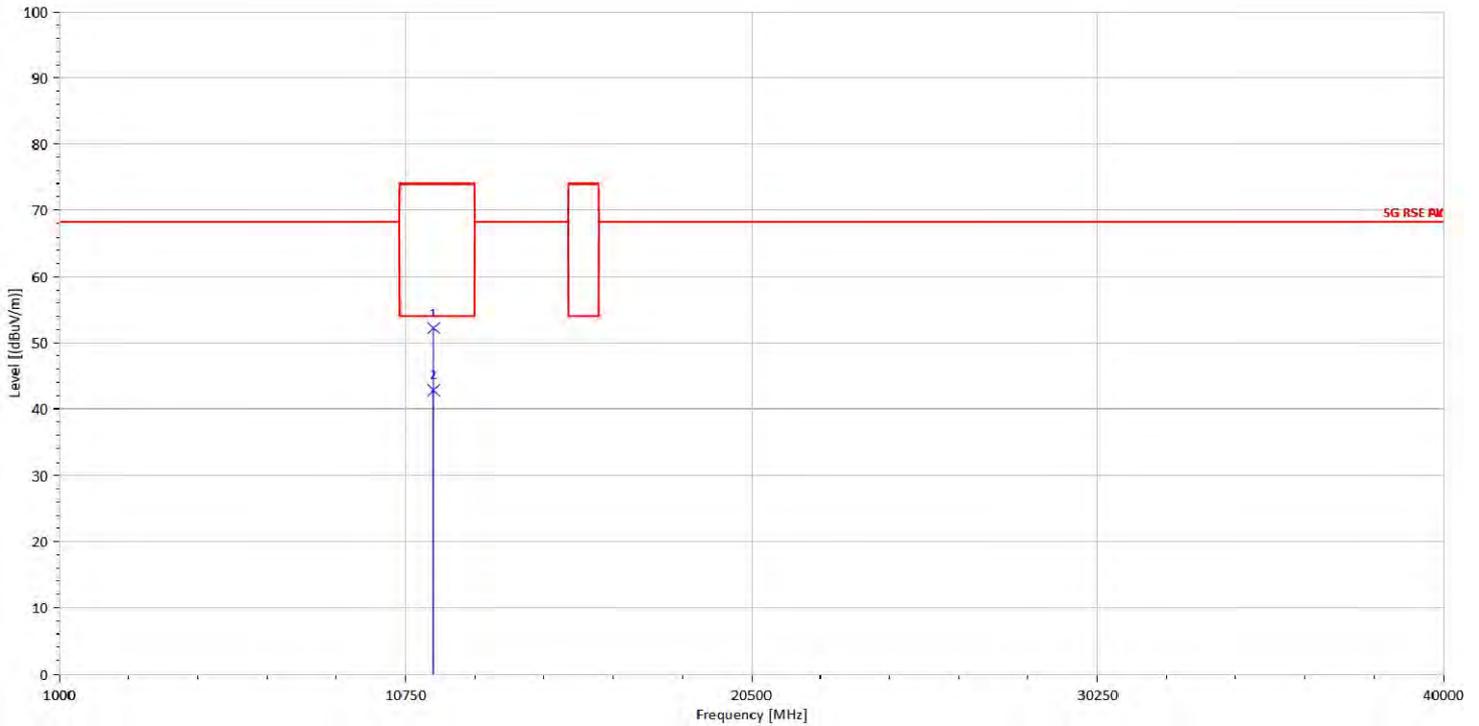
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11550.00	H	Peak	30.84	21.41	52.26	74	-21.74
11550.00	H	Average	21.43	21.41	42.84	54	-11.16

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Operation Mode :	802.11ac80	Test Date :	2017/2/18
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Penny
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11550.00	H	Peak	30.84	21.41	52.26	74	-21.74
11550.00	H	Average	21.43	21.41	42.84	54	-11.16

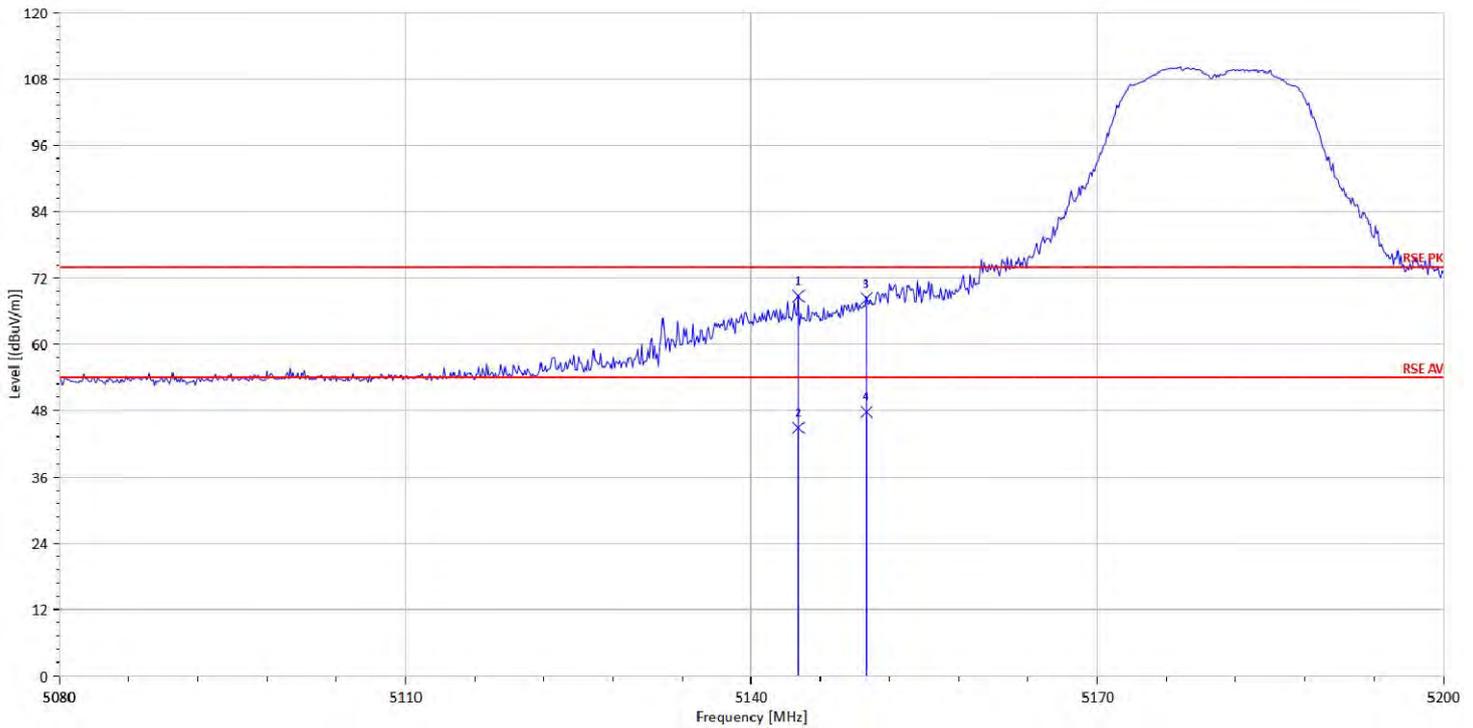
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Band edge falling to restricted band
802.11a mode

Operation Mode : 802.11a Test Date : 2017/2/18
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



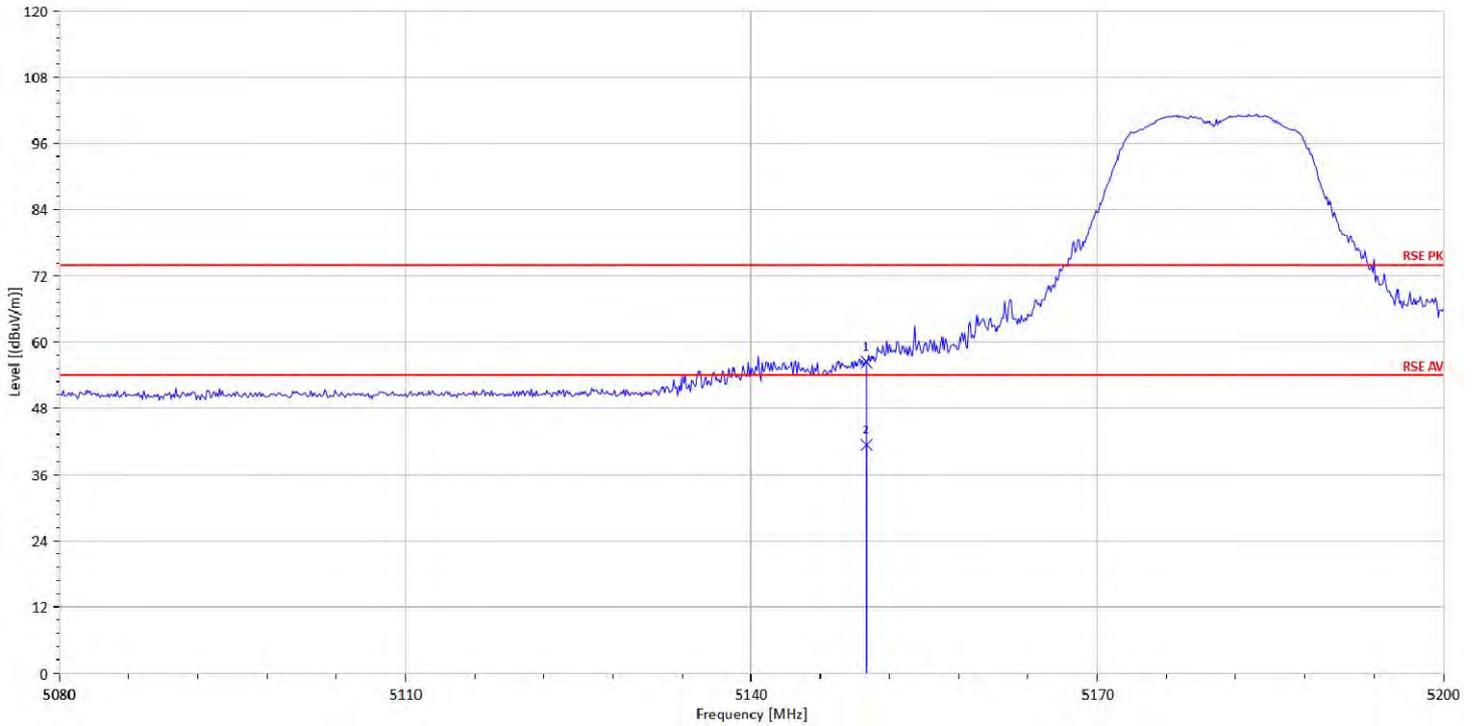
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5144.08	S	Peak	60.56	8.16	68.71	74	-5.29
5144.08	S	Average	36.75	8.16	44.91	54	-9.09
5150.00	E	Peak	60.07	8.19	68.26	74	-5.74
5150.00	E	Average	39.55	8.19	47.74	54	-6.26

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Operation Mode :	802.11a	Test Date :	2017/2/18
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



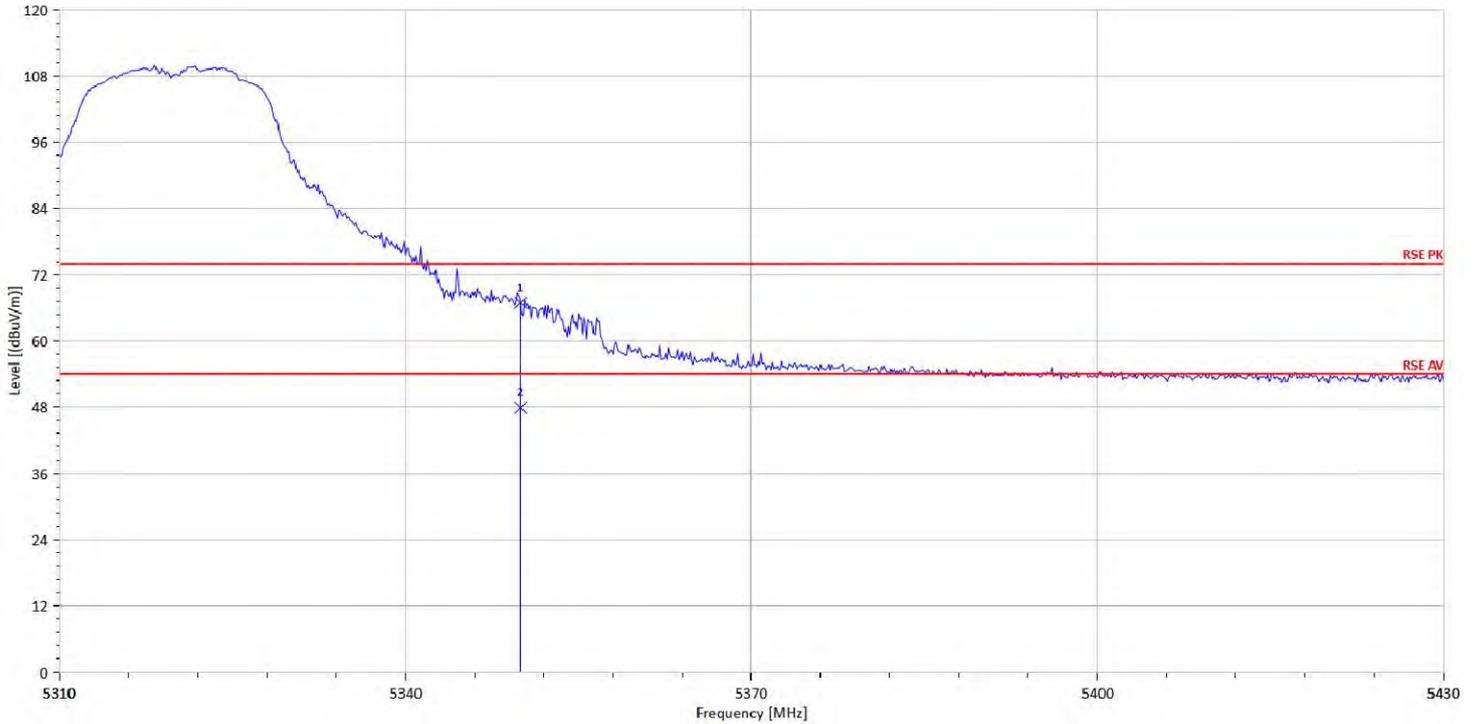
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	E	Peak	48.20	8.19	56.39	74	-17.61
5150.00	E	Average	33.16	8.19	41.35	54	-12.65

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

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Operation Mode :	802.11a	Test Date :	2017/2/18
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	E	Peak	57.96	8.96	66.93	74	-7.07
5350.00	E	Average	38.92	8.96	47.88	54	-6.12

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