

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name: ASUS Phone
Brand Name: ASUS
Model No.: ASUS_Z01FD
Model Difference: N/A
FCC ID: MSQZ01FD
IC: 3568A-Z01FD
Report No.: E2/2016/60120
Issue Date: Jul. 29, 2016
FCC Rule Part: §15.407
IC Rule Part RSS-247 issue 1 May 2015
ASUSTek COMPUTER INC.
Prepared for: 4F, No. 150, LI-TE Rd., PEITOU, TAIPEI
 112, TAIWAN
SGS Taiwan Ltd.
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VERIFICATION OF COMPLIANCE

Applicant: ASUSTek COMPUTER INC.
4F, No. 150, LI-TE Rd., PEITOU, TAIPEI 112, TAIWAN

Product Name: ASUS Phone

Brand Name: ASUS

Model No.: ASUS_Z01FD

Model Difference: N/A

FCC ID: MSQZ01FD

IC: 3568A-Z01FD

File Number: E2/2016/60120

Date of Test: Jul. 04, 2016 ~ Jul. 25, 2016

Date of EUT Received: Jul. 04, 2016

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:

Aken Huang

Date:

Jul. 29, 2016

Aken Huang / Engineer

Prepared By:

Tiffany Kao

Date:

Jul. 29, 2016

Tiffany Kao / Clerk

Approved By:

Jim Chang

Date:

Jul. 29, 2016

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
E2/2016/60120	Rev.00	Initial creation of document	Jul. 29, 2016

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Contents

1. GENERAL INFORMATION.....	6
1.1 Product Description.....	6
1.2 Product Feature of Equipment Under Test.....	9
1.3 Test Methodology of Applied Standards.....	10
1.4 Test Facility.....	10
1.5 Special Accessories.....	10
1.6 Equipment Modifications.....	10
2. SYSTEM TEST CONFIGURATION.....	11
2.1 EUT Configuration.....	11
2.2 EUT Exercise.....	11
2.3 Test Procedure.....	11
2.4 Measurement Results Explanation Example.....	11
2.5 Configuration of Tested System.....	12
3. SUMMARY OF TEST RESULT.....	13
4. DESCRIPTION OF TEST MODES.....	14
4.1 Operated in U-NII Bands.....	14
4.2 The Worst Test Modes and Channel Details.....	16
5. MEASUREMENT UNCERTAINTY.....	19
6. CONDUCTED EMISSION TEST.....	20
6.1. Standard Applicable.....	20
6.2. Measurement Equipment Used.....	20
6.3. EUT Setup.....	20
6.4. Test SET-UP.....	21
6.5. Measurement Procedure.....	21
6.6. Measurement Result.....	21
7. DUTY CYCLE TEST SIGNAL.....	26
8. 26dB & 6dB & 99% EMISSION BANDWIDTH MEASUREMENT.....	29
8.1 Standard Applicable.....	29
8.2 Measurement Procedure.....	29
8.3 Measurement Equipment Used.....	30
8.4 Test Set-up.....	30
8.5 Measurement Result.....	31

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9. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT	58
9.1 Standard Applicable	58
9.2 Measurement Procedure	59
9.3 Measurement Equipment Used	59
9.4 Test Set-up.....	59
9.5 Measurement Result.....	60
10. PEAK POWER SPECTRAL DENSITY	66
10.1 Standard Applicable	66
10.2 Measurement Procedure	67
10.3 Measurement Equipment Used	67
10.4 Test Set-up.....	67
10.5 Measurement Result.....	68
11. UNDESIRABLE RADIATED EMISSION MEASUREMENT1.....	95
11.1 Standard Applicable	95
11.2 Measurement Equipment Used	98
11.3 Test SET-UP	99
11.4 Measurement Procedure	100
11.5 Field Strength Calculation	100
11.6 Test Results of Radiated Spurious Emissions form 9 KHz to 30 MHz	101
11.7 Measurement Result.....	101
12. TRANSMISSION IN THE ABSENCE OF DATA.....	213
12.1 Standard Applicable	213
12.2 Result.....	213
13. FREQUENCY STABILITY	214
13.1 Standard Applicable	214
13.2 Measurement Procedure	214
13.3 Test SET-UP	214
13.4 Measurement Equipment Used:	214
13.5 Measurement Result.....	215
14. ANTENNA REQUIREMENT	220
14.1 Standard Applicable	220
14.2 Antenna Connected Construction	220

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1. GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	ASUS Phone	
Brand Name:	ASUS	
Model No.:	ASUS_Z01FD	
Model Difference:	N/A	
Product SW/HW version:	1.1.10.95 / R1.0D	
Radio SW/HW version:	N/A / N/A	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
Headset:	Model No.: AR-101, Supplier: 1MORE	
USB Cable:	1. Model No.: CUDU01B-AJ009-DF, Supplier: FOXCONN 2. Model No.: LA05US025-AN, Supplier: ASAP	
Power Supply:	3.85Vdc from Rechargeable Li-polymer Battery or 5V / 9V from AC/DC Adapter	
	Battery:	Model No.: C11P1605, Supplier: CELXPRT ENERGY CORP
	Adapter:	1. Model No.: AS0202, Supplier: SALCOMP 2. Model No.: AD2068320, Supplier: PI

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WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.) / (EIRP)	Modulation Technology	Type of Emission
11a	5150~5250	4	14.61 dBm (Avg.) / 14.41dBm (EIRP)	OFDM	17M0D1D
	5250~5350	4	14.95 dBm (Avg.) / 14.45 dBm (EIRP)		16M9D1D
	5470~5725	12	14.91 dBm (Avg.) / 11.61 dBm (EIRP)		16M9D1D
	5725-5850	5	14.93 dBm		16M4D1D
11n / ac_20M	HT / VHT20 5150~5250	4	HT: 13.98 dBm (Avg.) / 13.78 dBm (EIRP) (Worst Case)	OFDM	17M9D1D
	HT / VHT20 5250~5350	4	HT: 13.96 dBm (Avg.) / 13.46 dBm (EIRP) (Worst Case)		17M9D1D
	HT / VHT20 5470~5725	11	HT: 13.97 dBm (Avg.) / 10.67 dBm (EIRP) (Worst Case)		17M9D1D
	HT / VHT20 5725-5850	5	HT: 13.96 dBm (Worst Case)		17M7D1D
11n / ac_40M	HT / VHT40 5150~5250	2	HT: 13.95 dBm (Avg.) / 13.75 dBm (EIRP) (Worst Case)	OFDM	36M2D1D
	HT / VHT40 5250~5350	2	HT: 13.99 dBm (Avg.) / 13.49 dBm (EIRP) (Worst Case)		36M1D1D
	HT / VHT40 5470~5725	5	HT: 13.96 dBm (Avg.) / 10.66 dBm (EIRP) (Worst Case)		36M3D1D
	HT / VHT40 5725-5850	2	HT: 13.86 dBm (Worst Case)		35M2D1D
11ac_80M	VHT80 5150~5250	1	9.96 dBm (Avg.) / 9.76 dBm (EIRP)	OFDM	74M8D1D
	VHT80 5250~5350	1	9.95 dBm (Avg.) / 9.45 dBm (EIRP)		74M9D1D
	VHT80 5470~5725	2	9.71 dBm (Avg.) / 6.41 dBm (EIRP)		74M9D1D
	VHT80 5725-5850	1	9.57dBm		75M1D1D

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Antenna Designation	PIFA Antenna, 5GHz Gain: -0.2dBi (5150MHz-5250MHz) 5GHz Gain: -0.5dBi (5250MHz-5350MHz) 5GHz Gain: -3.3dBi (5470MHz-5725MHz) 5GHz Gain: -2.7dBi (5725MHz-5850MHz)
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_20 / ac VHT20MHz: 6.5 – 65Mbps 802.11 n_40 / ac VHT40MHz: 13.5 – 135Mbps 802.11 ac_80MHz: 29.3 – 292.5Mbps

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1.2 Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is ASUS Phone, supporting GSM / WCDMA / LTE, Wi-Fi 802.11a/b/g/n/ac, Bluetooth, NFC features, and below is details of information.

Product Feature	
Product Name:	ASUS Phone
Brand Name:	ASUS
Model No.:	ASUS_Z01FD
Model Difference:	N/A
FCC ID:	MSQZ01FD
IC :	3568A-Z01FD
GSM Operating Band(s)	GSM 850/1900MHz
GPRS / EGPRS Multi Slot Class	GPRS Class 10
WCDMA Operating Band(s)	FDD Band II / IV / V
WCDMA Rel. Version	Rel.9
LTE Operating Band(s)	FCC Band 5: Part 22. / FCC Band 2: Part 24. FCC Band 4 / 7 / 12 / 17 / 38 / 41: Part 27. FCC Band 26 : Part22, Part 90
LTE Rel. Version	Rel.10
Bluetooth Version	V4.2 dual mode
Wi-Fi- Specification	802.11a/b/g/n/ac
NFC Specification	NFC

Note: The above EUT information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules

FCC KDB 644545 D03 Guidance for IEEE 802.11ac v01

RSS-247 issue 1 May 2015

RSS-Gen issue 4 Nov. 2014

ANSI C63.10:2013

Note:

1. All test items have been performed and record as per the above standards.
2. The composite system is compliance with FCC Subpart B is authorized under the certification procedure.

1.4 Test Facility

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

FCC Registration Numbers are: 735305

Canada Registration Number: 4620A-5.

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2. SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Radiated Emissions

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

2.4 Measurement Results Explanation Example

For all conducted test items:

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

Note:

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

Following shows an offset computation example with cable loss 1dB, and 0dB attenuator.

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2.5 Configuration of Tested System

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

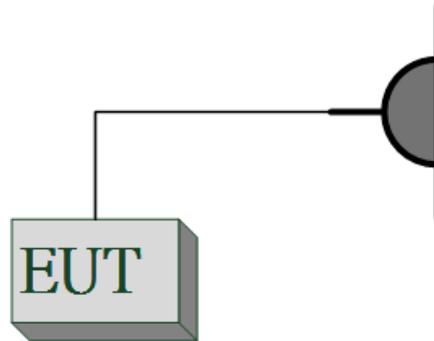


Fig. 2-2 Conducted (Antenna Port) Configuration Emission

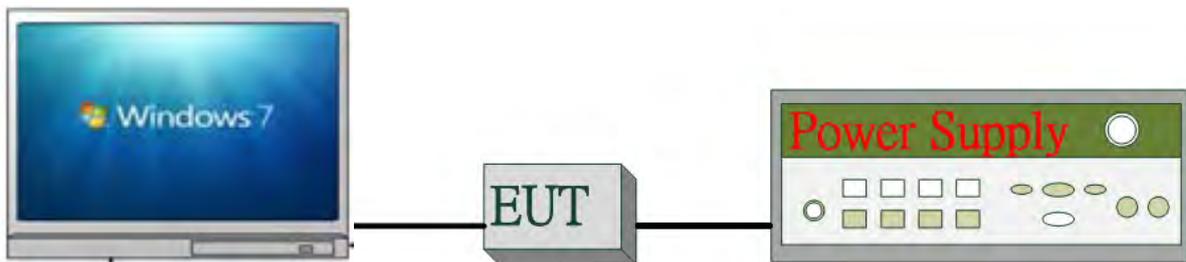


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	Lenovo	L420	LR-7HXZA	N/A	Un-shielded
3.	DC Power Supply	Agilent	E3640A	MY53140006	N/A	Un-shielded

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3. SUMMARY OF TEST RESULT

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

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4. DESCRIPTION OF TEST MODES

4.1 Operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

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

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

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
42	5210 MHz

Operated band in 5250 MHz ~5350 MHz:

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

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

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
58	5290 MHz

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Operated band in 5470 MHz ~5725 MHz:

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

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

5 channels are provided for 802.11n_HT40, 802.11ac_VHT40

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

2 channels are provided for 802.11ac_VHT80

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530 MHz	122	5610 MHz

Operated band in 5725 MHz ~5850 MHz:

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

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

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
155	5775 MHz

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4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.
4. The given UE is pre-scanned among 802.11n and ac modes, and 802.11n yields the highest reading that generates the highest emission. Therefore, 802.11n as the mode of 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	MAIN
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MAIN
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11ac_VHT80	5290	58	58	OFDM	MCS0	MAIN
802.11a	5500~5720	100 to 140	100,116,140	OFDM	6	MAIN
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS0	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11ac_VHT80	5775	155	155	OFDM	MCS0	MAIN
RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	MAIN
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MAIN
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS0	MAIN
802.11ac_VHT80	5290	58	58	OFDM	MCS0	MAIN

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MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5500~5720	100 to 144	100,116,140	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5510~5710	102 to 142	102,110,134	OFDM	MCS0	MAIN
802.11ac_VHT80	5530~5610	106 to 122	106,122	OFDM	MCS0	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS0	MAIN
802.11ac_VHT80	5775	155	155	OFDM	MCS0	MAIN

Note:

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

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ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	MAIN
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MAIN
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS0	MAIN
802.11ac_VHT80	5290	58	58	OFDM	MCS0	MAIN
802.11a	5500~5700	100 to 140	100,116,140	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5510~5670	102 to 134	102,110,134	OFDM	MCS0	MAIN
802.11ac_VHT80	5530~5610	106 to 122	106,122	OFDM	MCS0	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS0	MAIN
802.11ac_VHT80	5775	155	155	OFDM	MCS0	MAIN

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5. MEASUREMENT UNCERTAINTY

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

Radiated Spurious Emission:

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

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

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

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6. CONDUCTED EMISSION TEST

6.1. Standard Applicable

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

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

Note

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

6.2. Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI 7	100950	12/12/2015	12/11/2016
Coaxial Cables	N/A	N30N30-1042-150 cm	N/A	02/07/2016	02/06/2017
LISN	Schwarzbeck	NSLK 8127	8127-648	03/11/2016	03/10/2017
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

6.3. EUT Setup

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

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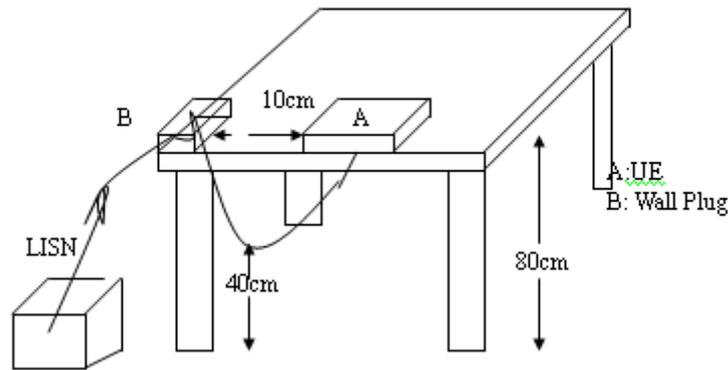
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6.4. Test SET-UP



6.5. Measurement Procedure

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

6.6. Measurement Result

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

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

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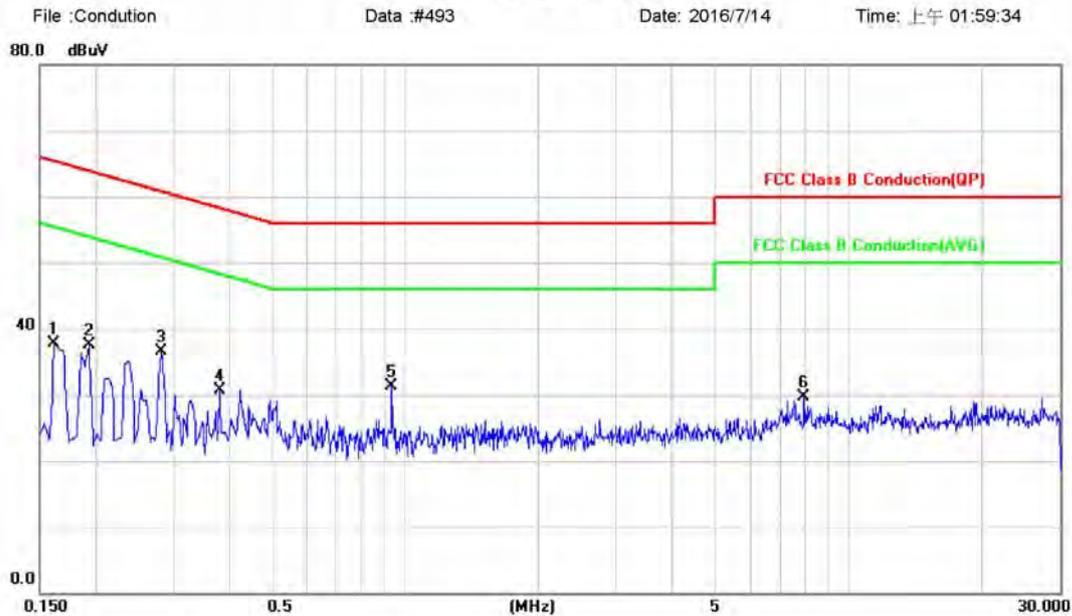
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Site : Conduction Room Phase: **N** Temperature: 22 °C
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 63 %
 Mode: AS0202
 Note:

Conducted Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1620	17.88	19.73	37.61	65.36	-27.75	peak	
2		0.1940	17.81	19.72	37.53	63.86	-26.33	peak	
3	*	0.2820	16.68	19.77	36.45	60.76	-24.31	peak	
4		0.3820	10.86	19.83	30.69	58.24	-27.55	peak	
5		0.9380	11.42	19.92	31.34	56.00	-24.66	peak	
6		7.9380	9.72	20.05	29.77	60.00	-30.23	peak	

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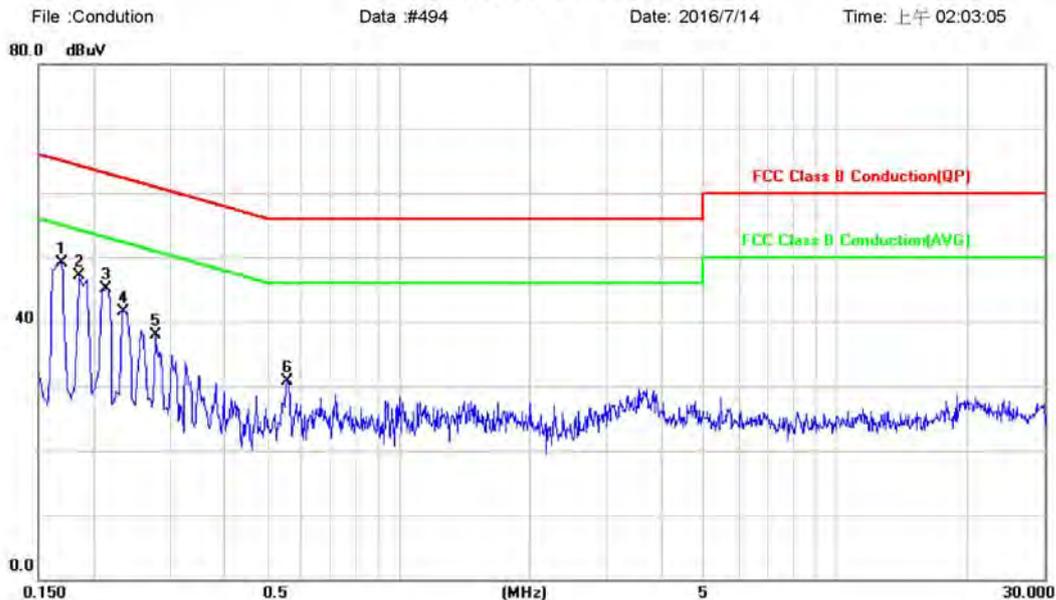
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode		Test Date:	Jul. 14, 2016	
Temperature:	20 °C	Humidity:	58 %	Test By:	Aken
Adapter:	Model No.: AD2068320		Phase:	L1	

Site : Conduction Room	Phase: L1	Temperature: 22 °C
Limit: FCC Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 63 %
Mode: AD2068320		
Note:		

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1700	29.43	19.72	49.15	64.96	-15.81	peak	
2		0.1860	27.41	19.71	47.12	64.21	-17.09	peak	
3		0.2140	25.31	19.72	45.03	63.05	-18.02	peak	
4		0.2340	21.76	19.73	41.49	62.31	-20.82	peak	
5		0.2780	18.07	19.76	37.83	60.88	-23.05	peak	
6		0.5580	10.86	19.90	30.76	56.00	-25.24	peak	

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7. DUTY CYCLE TEST SIGNAL

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

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

Formula:

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

Measurement Procedure:

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

Duty Cycle:

Mode	Duty Cycle (%)	Duty Factor (dB) =10*log (1/Duty Cycle
802.11a	87.33	0.59
802.11n_20	86.58	0.63
802.11n_40	76.02	1.19
802.11ac_80	55.24	2.58

$$\text{Duty Cycle Factor: } 10 * \log(1/0.8733) = 0.59$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.8658) = 0.63$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.7602) = 1.19$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.5524) = 2.58$$

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DUTY CYCLE TEST SIGNAL Measurement Result 802.11a



802.11n HT20



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8. 26dB & 6dB & 99% EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

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

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

8.2 Measurement Procedure

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

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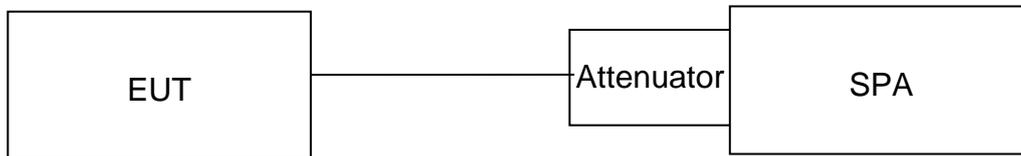
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8.3 Measurement Equipment Used

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
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	12/12/2015	12/11/2016
DC Block	PASTERNAK	PE8210	RF29	12/12/2015	12/11/2016
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2016	05/03/2017

8.4 Test Set-up



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8.5 Measurement Result 26dB Bandwidth

802.11a_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.92	13.408
5220	22.35	13.492
5240	22.34	13.491
5260	22.21	13.465
5300	21.95	13.415
5320	21.92	13.408
5500	22.14	13.451
5580	22.12	13.448
5700	22.05	13.435

802.11n_HT20_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	22.21	13.466
5220	22.84	13.586
5240	22.25	13.473
5260	22.67	13.555
5300	22.48	13.517
5320	22.99	13.614
5500	22.21	13.466
5580	22.52	13.525
5700	21.70	13.365

802.11n_HT40_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	43.20	16.354
5230	43.28	16.363
5270	43.56	16.391
5310	42.23	16.256
5510	44.32	16.466
5550	43.30	16.365
5670	43.56	16.391

802.11ac_VHT80_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	82.89	19.185
5290	81.91	19.133
5530	84.56	19.272
5610	82.37	19.158

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99% Bandwidth

802.11a_Main

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.824	12.259
5220	16.819	12.258
5240	16.966	12.296
5260	16.928	12.286
5300	16.861	12.269
5320	16.866	12.270
5500	16.875	12.272
5580	16.802	12.254
5700	16.853	12.267

802.11n_HT20_Main

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	17.892	12.527
5220	17.944	12.539
5240	17.865	12.520
5260	17.922	12.534
5300	17.927	12.535
5320	17.915	12.532
5500	17.906	12.530
5580	17.908	12.530
5700	17.880	12.524

802.11n_HT40_Main

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	36.245	15.592
5230	36.140	15.580
5270	36.142	15.580
5310	36.113	15.577
5510	36.264	15.595
5550	36.224	15.590
5670	36.217	15.589

802.11ac_VHT80_Main

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	74.847	18.742
5290	74.874	18.743
5530	74.851	18.742
5610	74.899	18.745

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

802.11a_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.43	12.155
5785	16.37	12.141
5825	16.38	12.143

802.11n_HT20_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.63	12.463
5785	17.62	12.459
5825	17.66	12.471

802.11n_HT40_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.18	15.463
5795	35.17	15.461

802.11ac_VHT80_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.06	18.754

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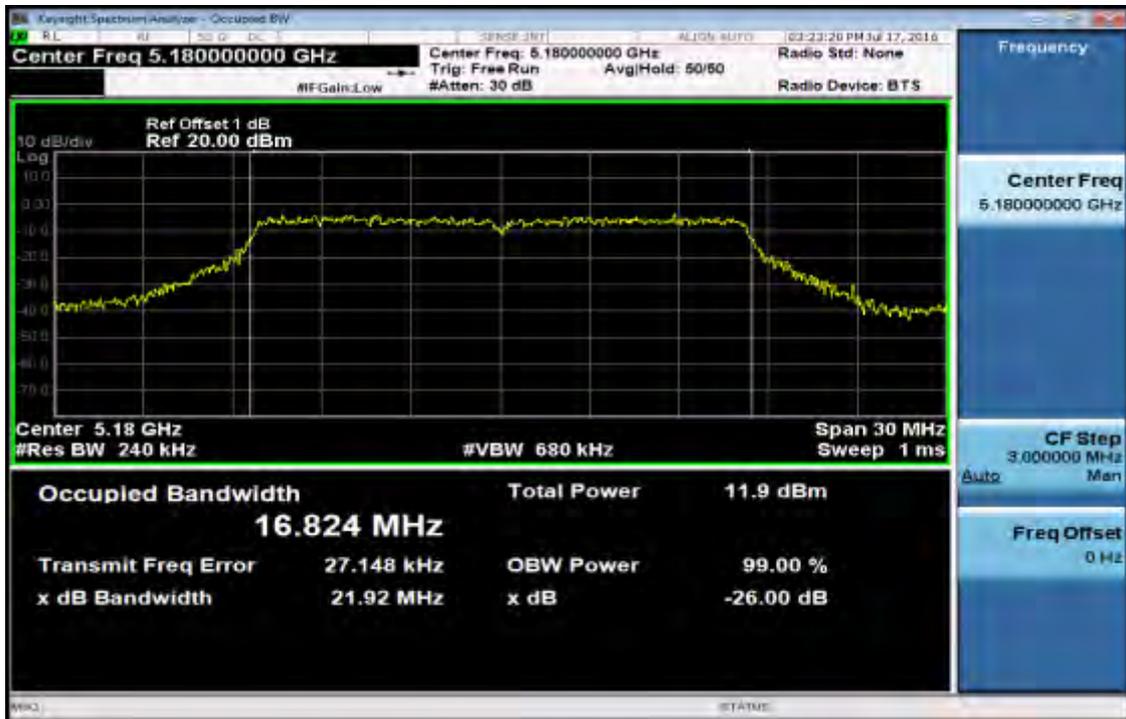
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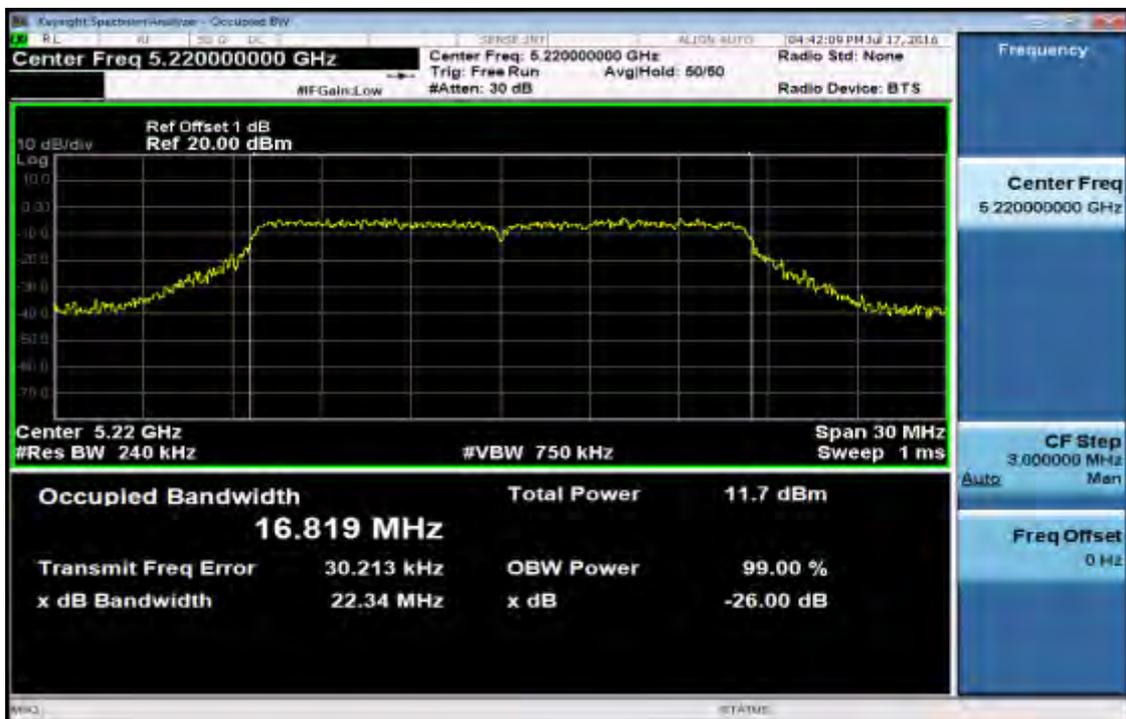
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Member of SGS Group

802.11a, 5150~5250 MHz (Main)
26dB & 99% Band Width Test Data CH-Low (5180MHz)



26dB & 99% Band Width Test Data CH-Mid (5220MHz)



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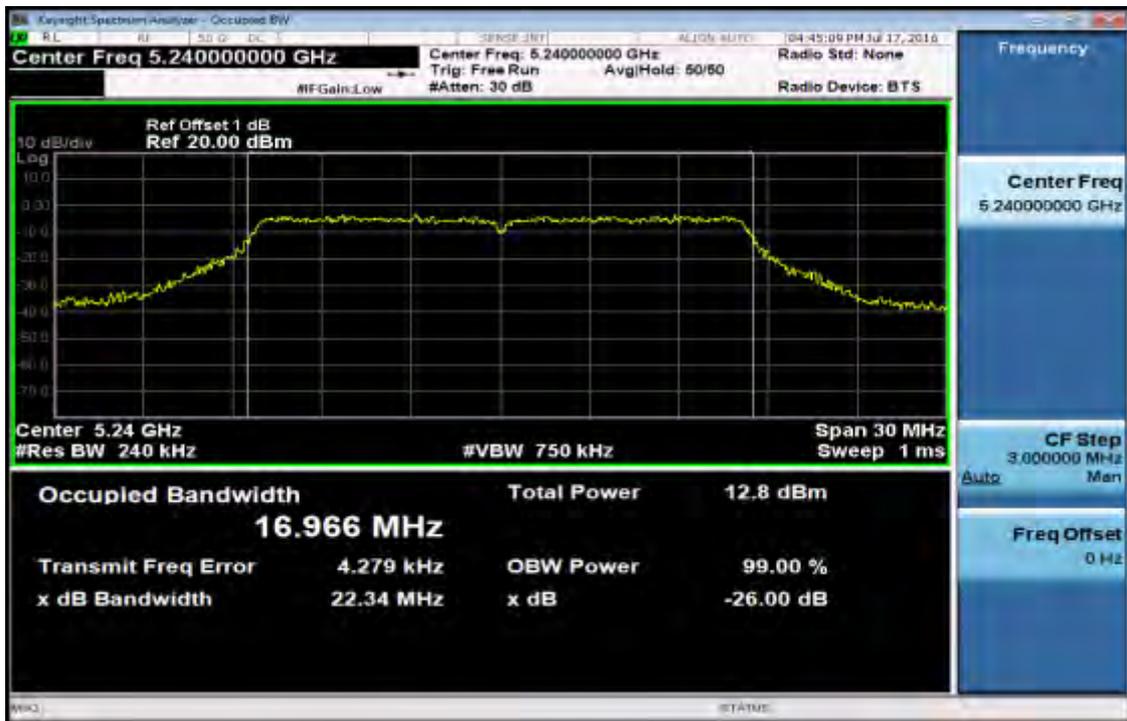
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26dB & 99% Band Width Test Data CH-High (5240MHz)



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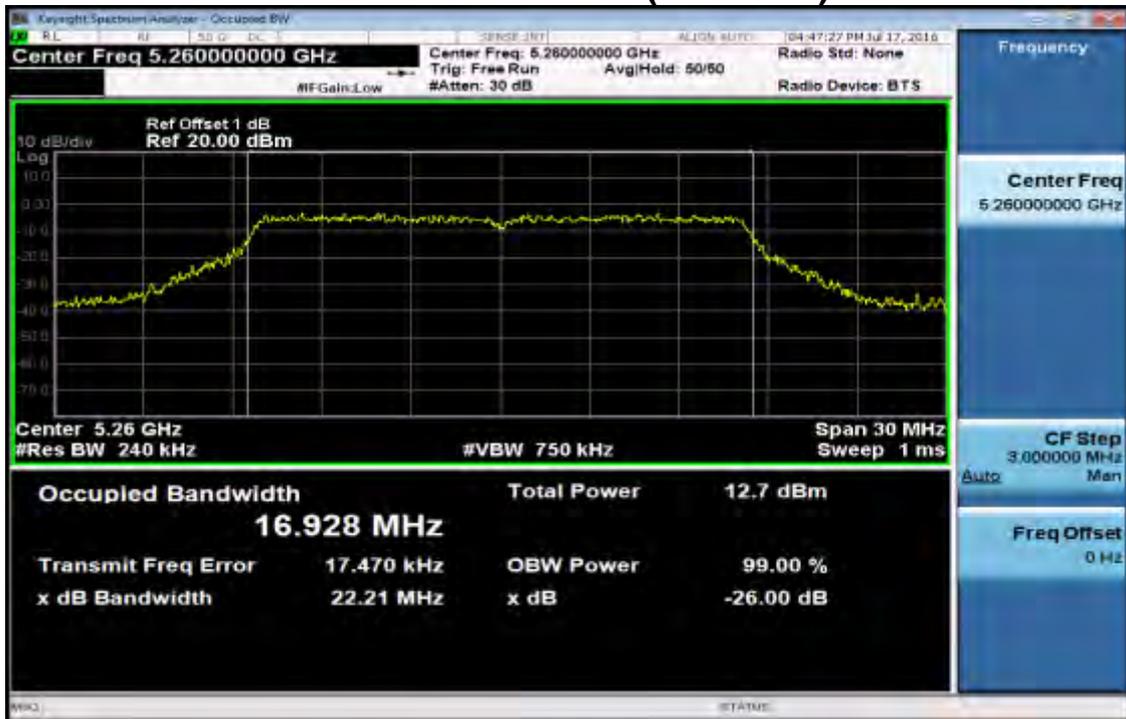
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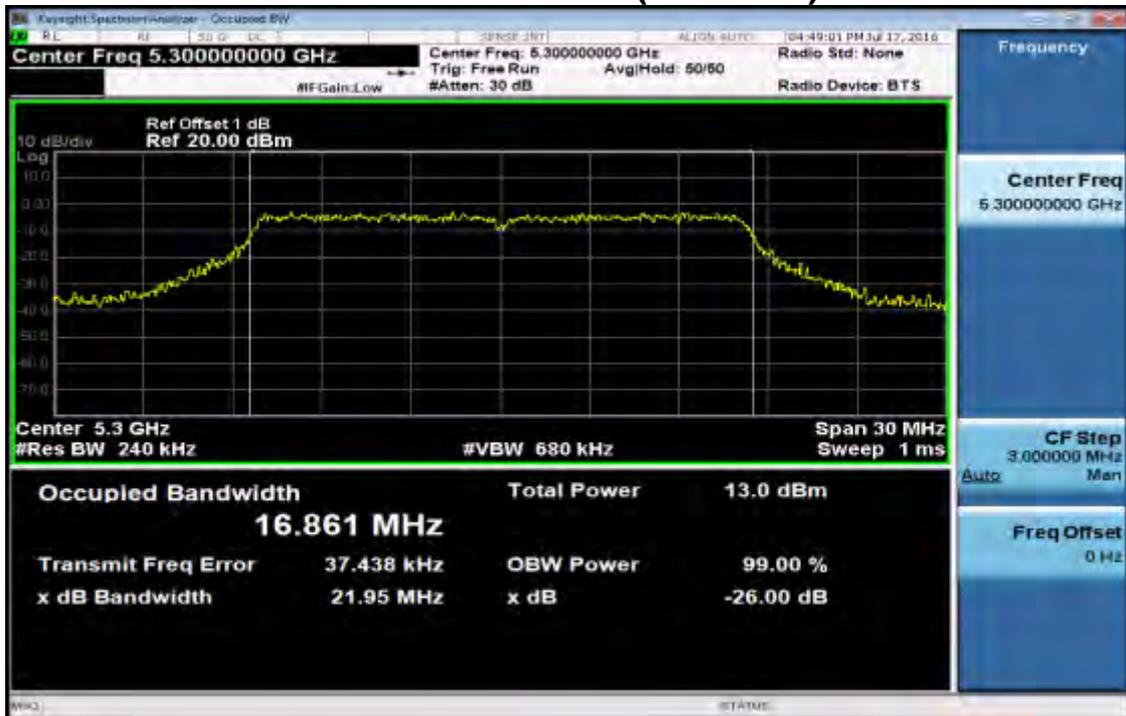
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**802.11a, 5250~5350 MHz (Main)
26dB & 99% Band Width Test Data CH-Low (5260MHz)**



26dB & 99% Band Width Test Data CH-Mid (5300MHz)



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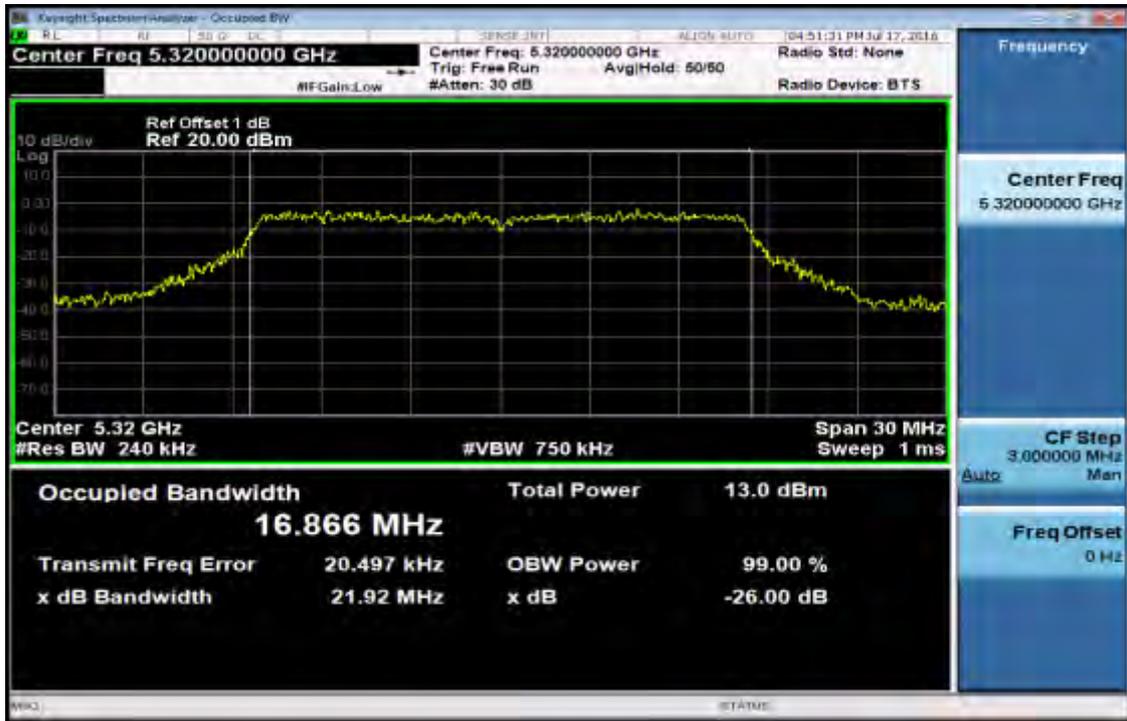
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26dB & 99% Band Width Test Data CH-High (5320MHz)



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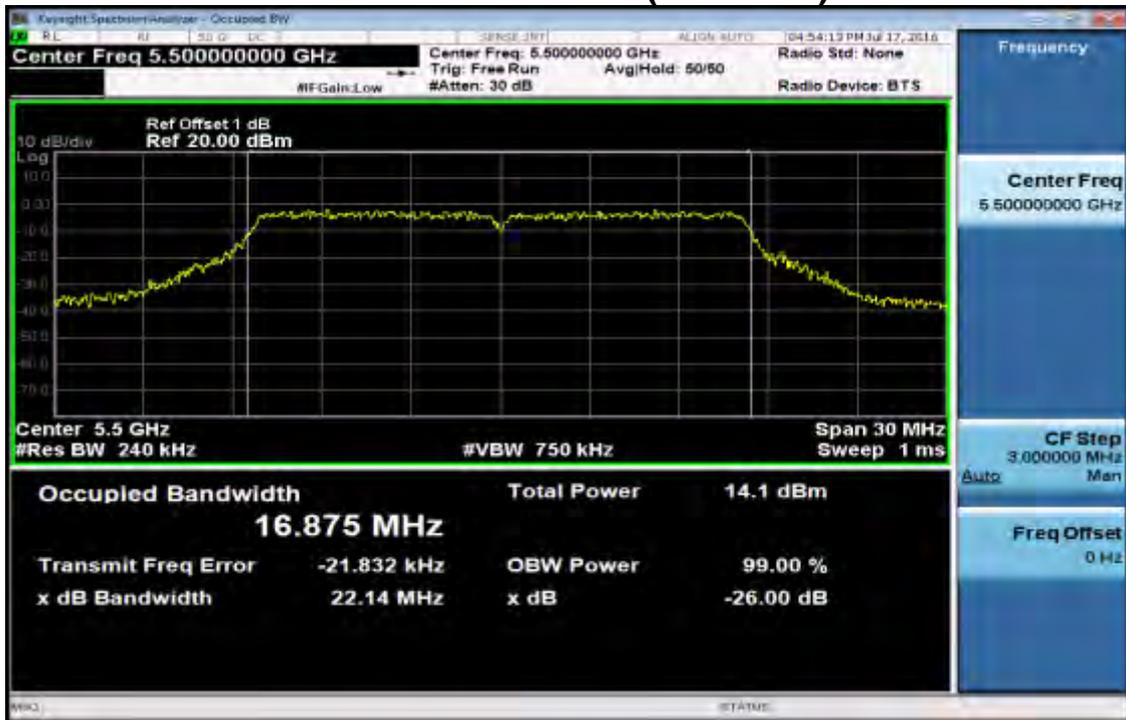
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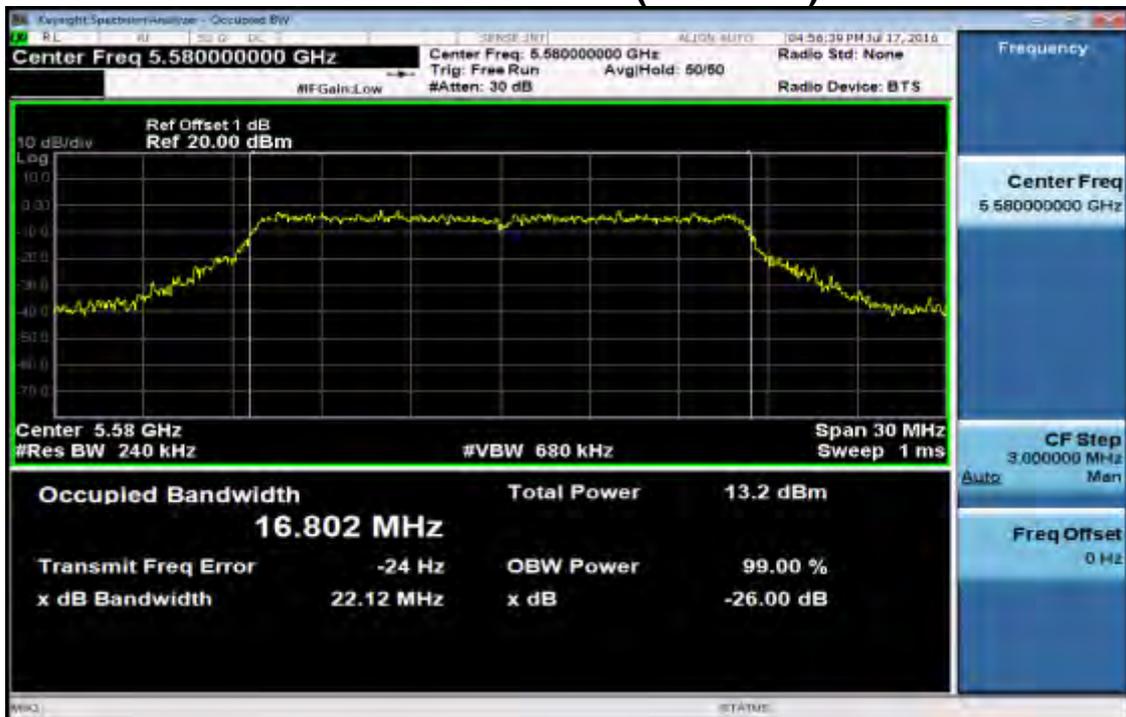
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**802.11a, 5470~5725 MHz (Main)
26dB & 99% Band Width Test Data CH-Low (5500MHz)**



26dB & 99% Band Width Test Data CH-Mid (5580MHz)



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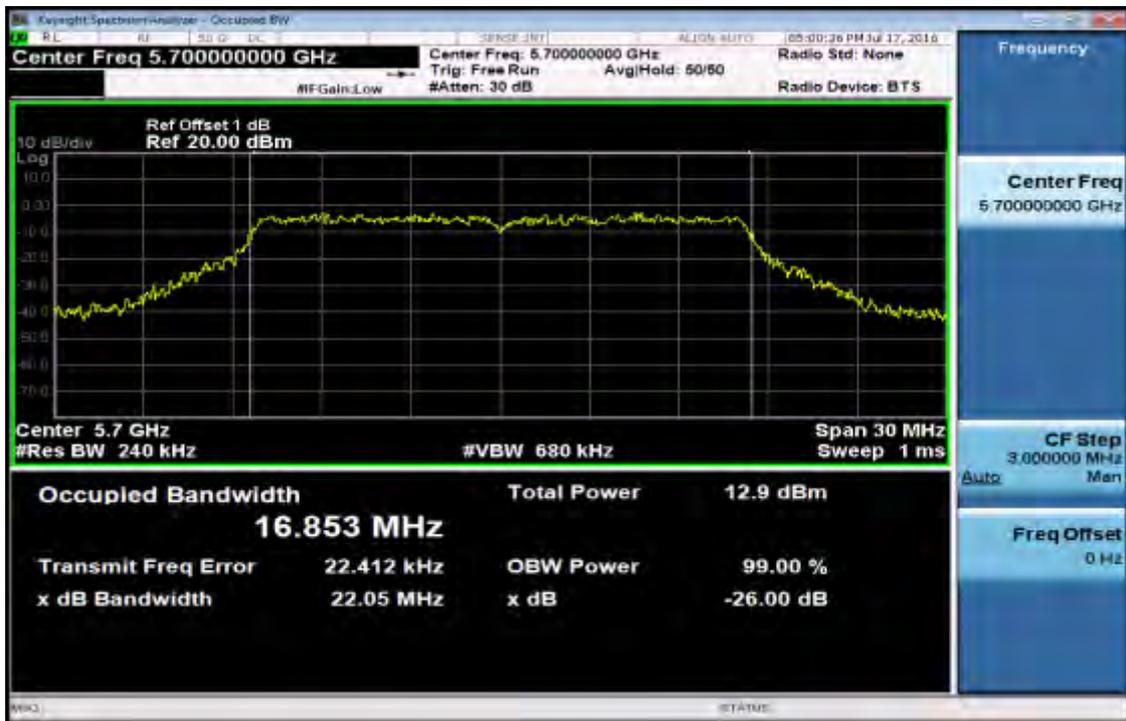
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26dB & 99% Band Width Test Data CH-High (5700MHz)



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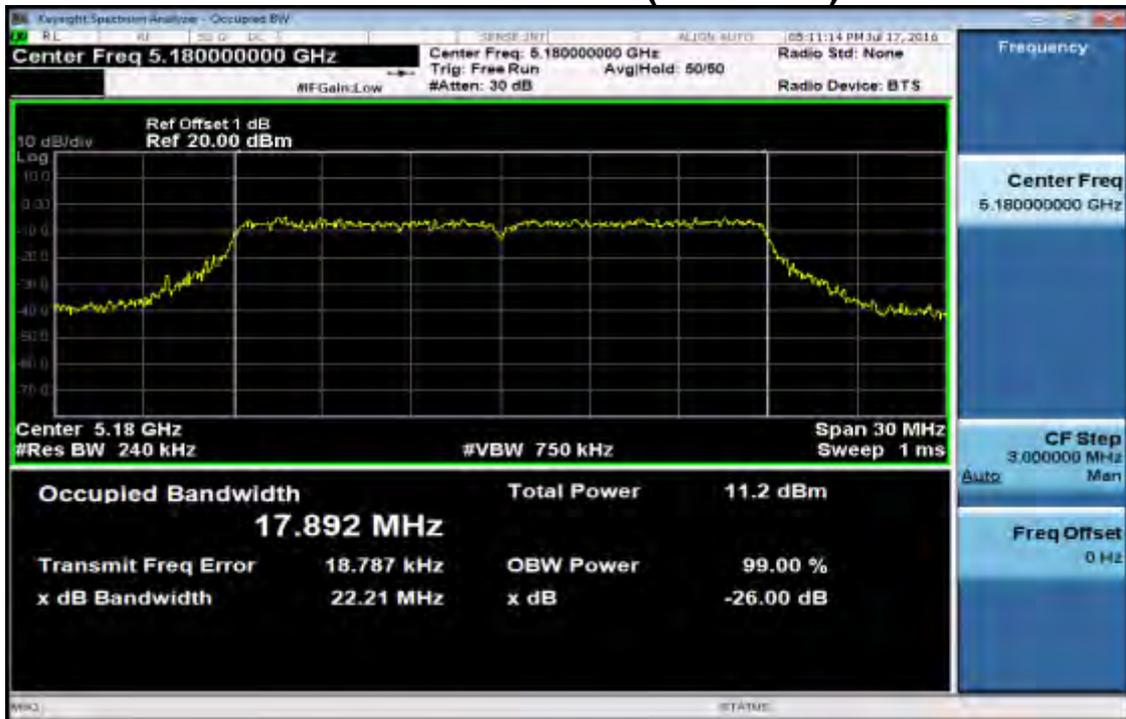
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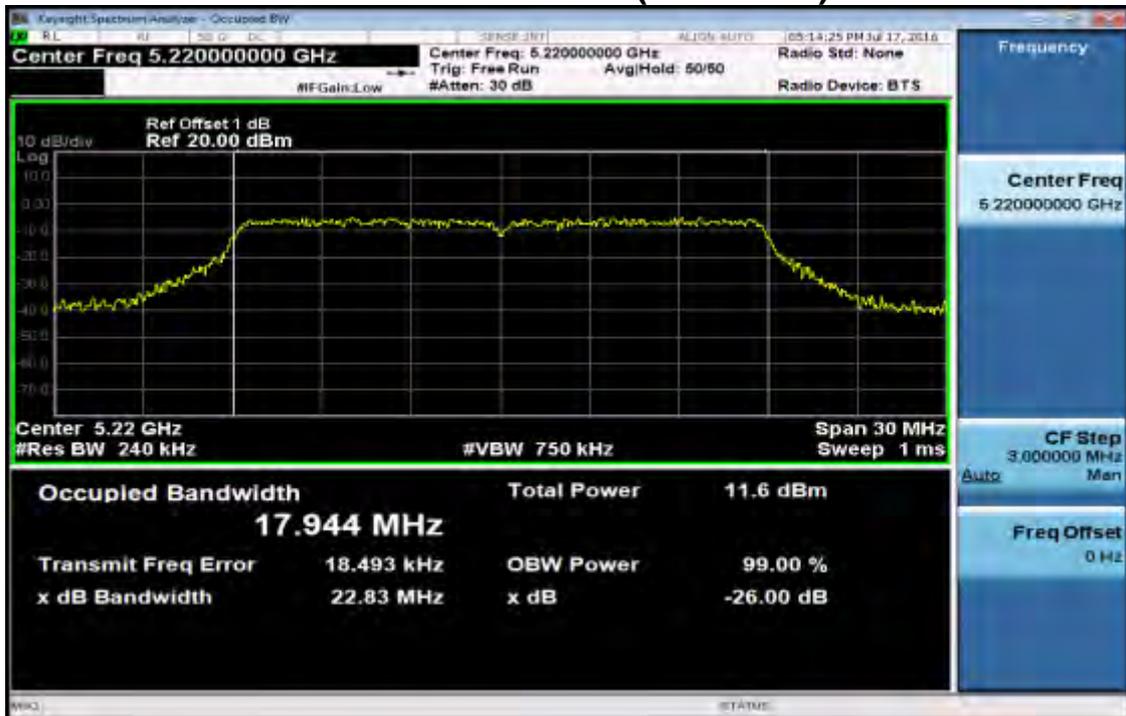
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**802.11n HT20, 5150~5250 MHz (Main)
26dB & 99% Band Width Test Data CH-Low (5180 MHz)**



26dB & 99% Band Width Test Data CH-Mid (5220 MHz)



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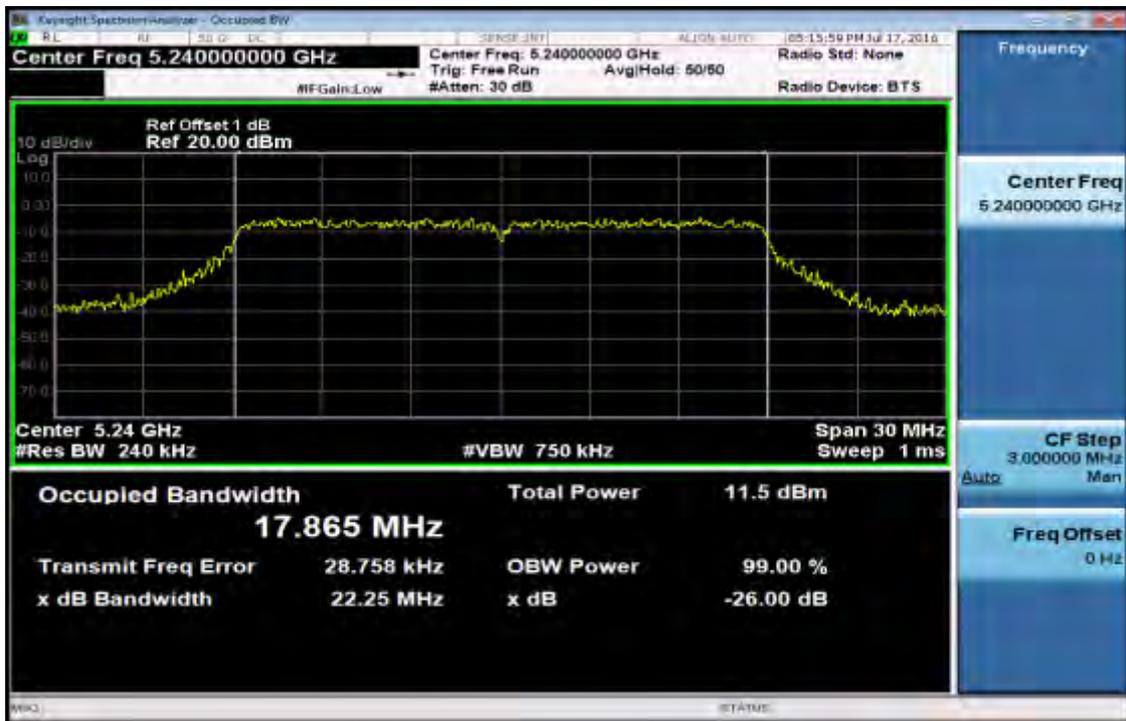
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26dB & 99% Band Width Test Data CH-High (5240 MHz)



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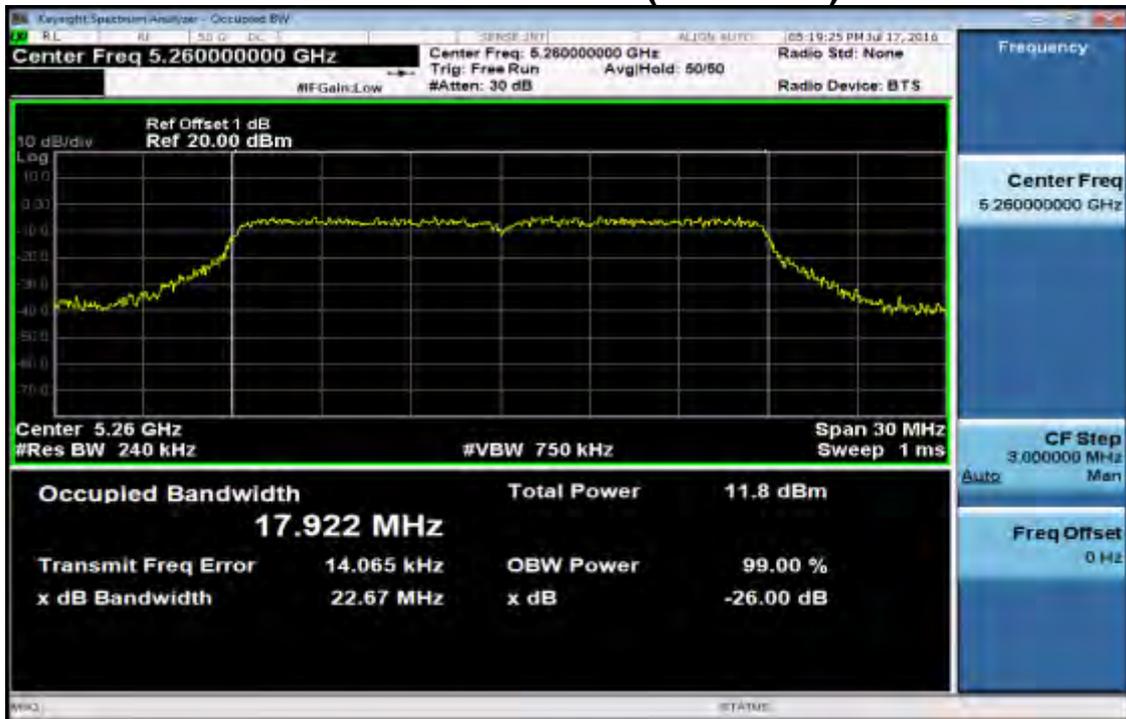
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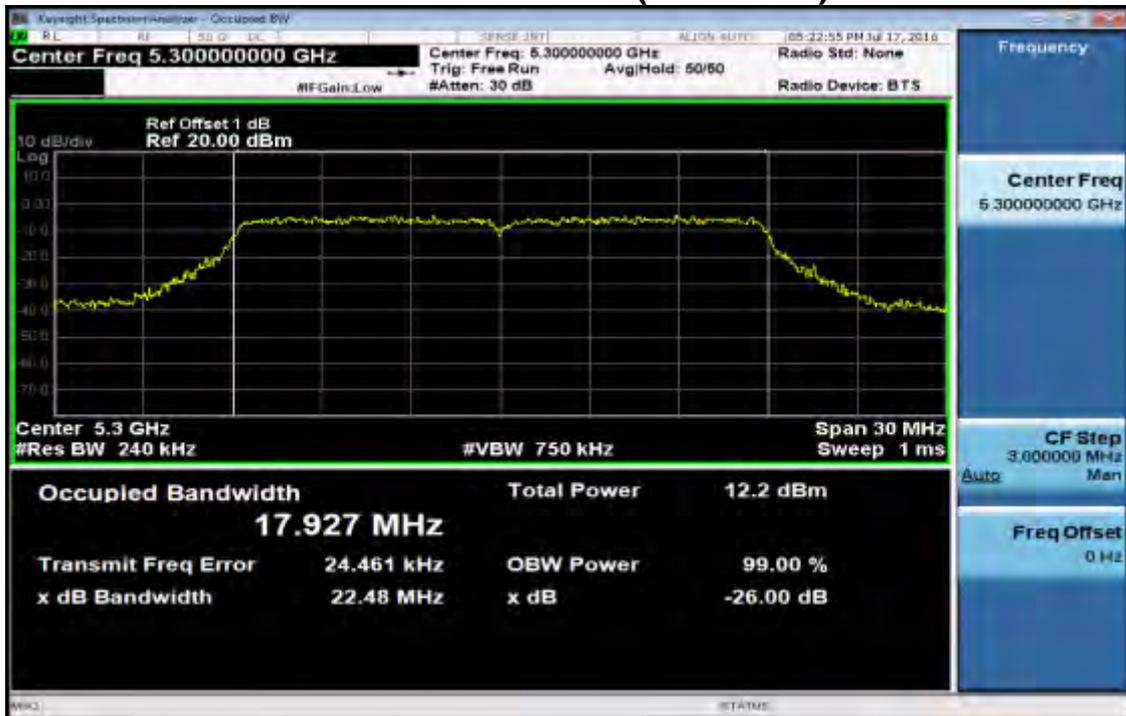
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**802.11n HT20, 5250~5350 MHz (Main)
26dB & 99% Band Width Test Data CH-Low (5260 MHz)**



26dB & 99% Band Width Test Data CH-Mid (5300 MHz)



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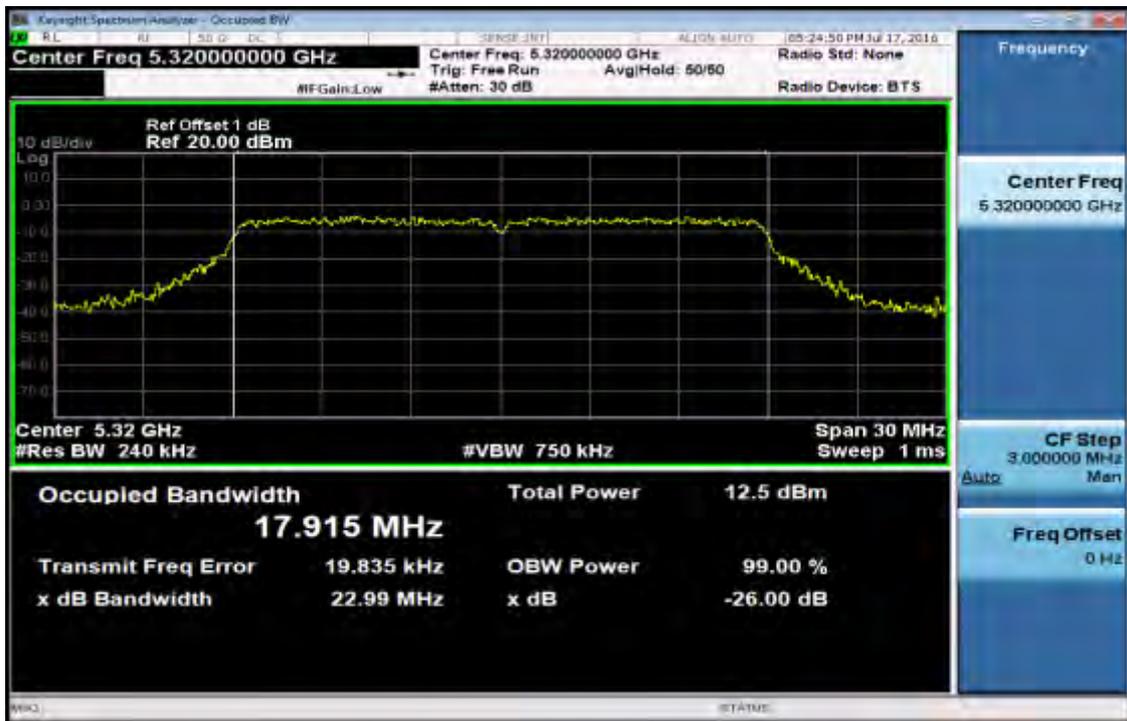
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26dB & 99% Band Width Test Data CH-High (5320 MHz)



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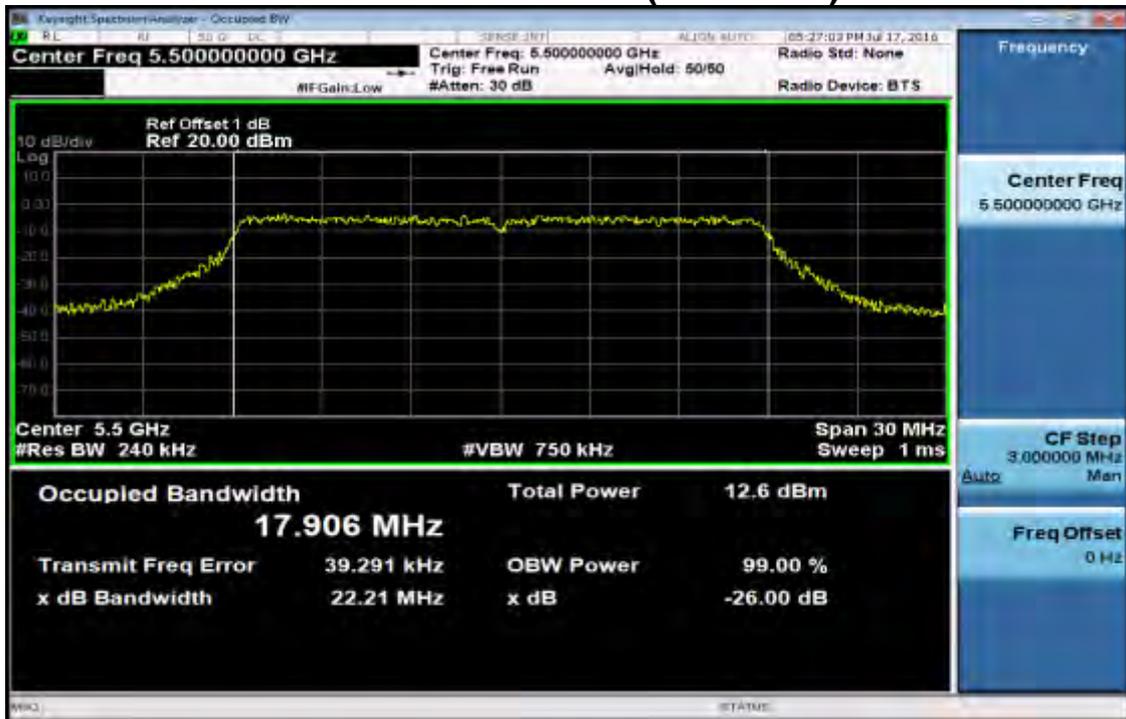
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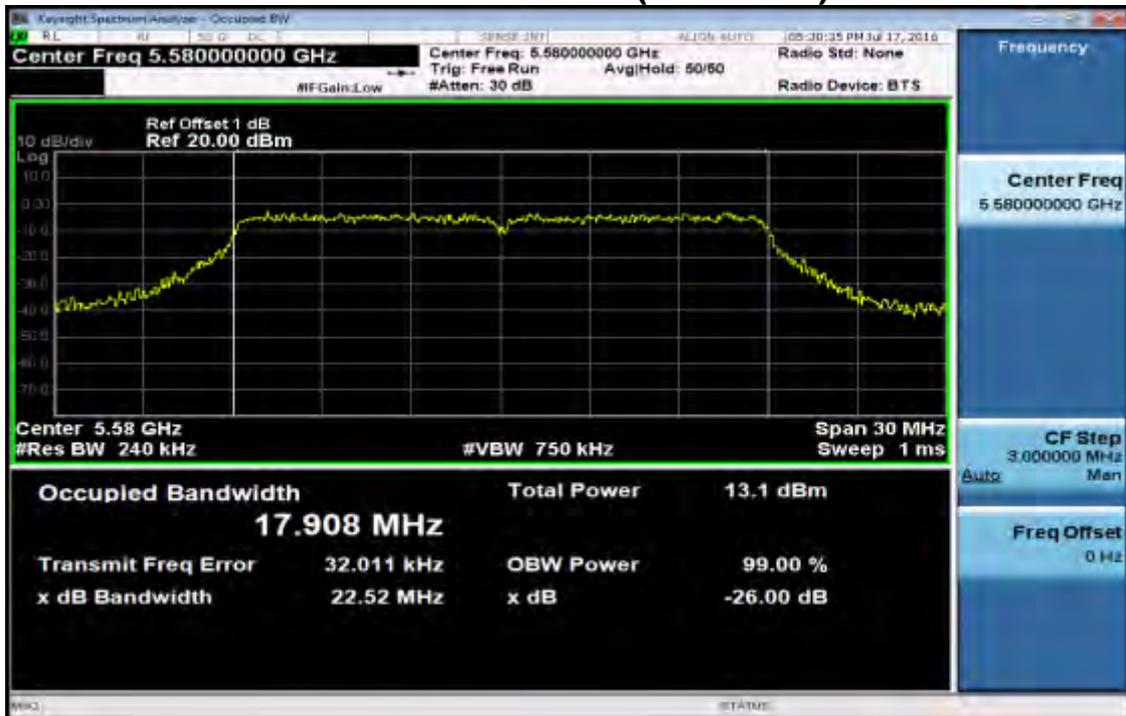
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**802.11n HT20, 5470~5725 MHz (Main)
26dB & 99% Band Width Test Data CH-Low (5500 MHz)**



26dB & 99% Band Width Test Data CH-Mid (5580 MHz)



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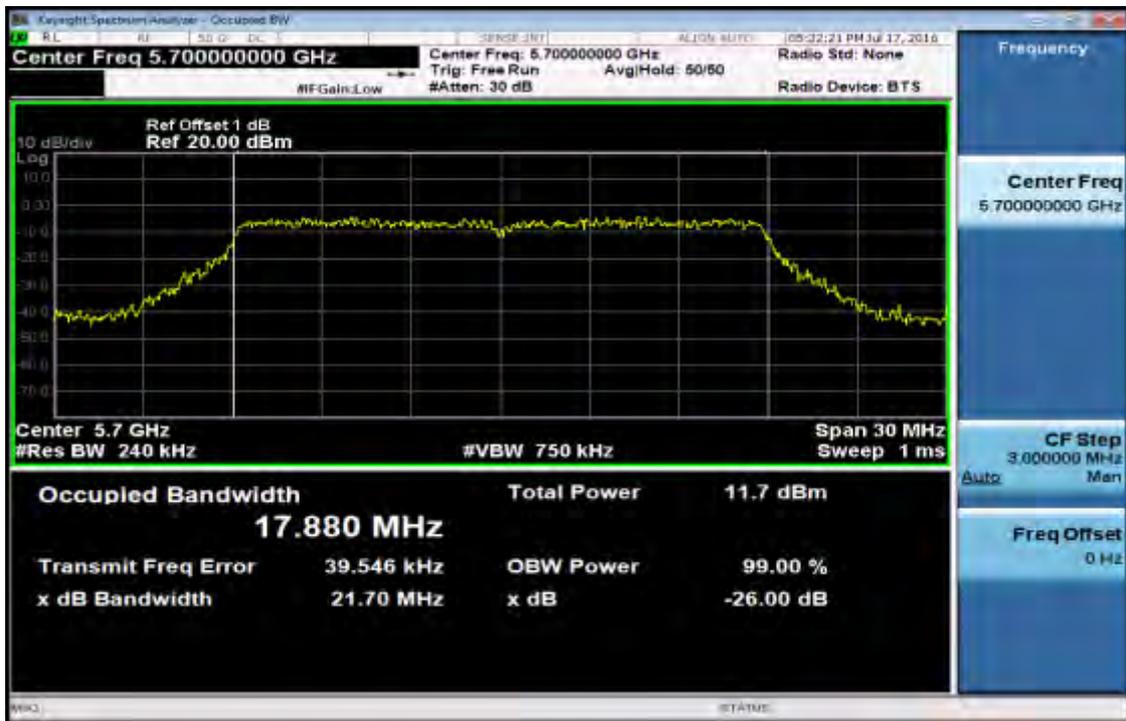
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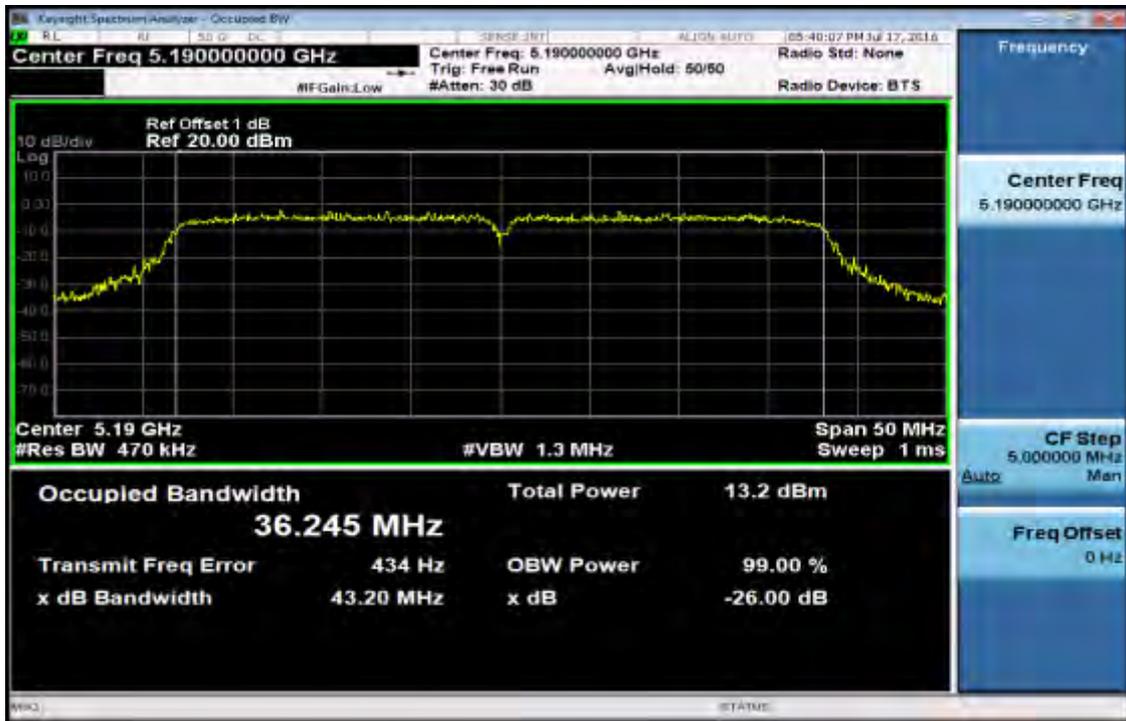
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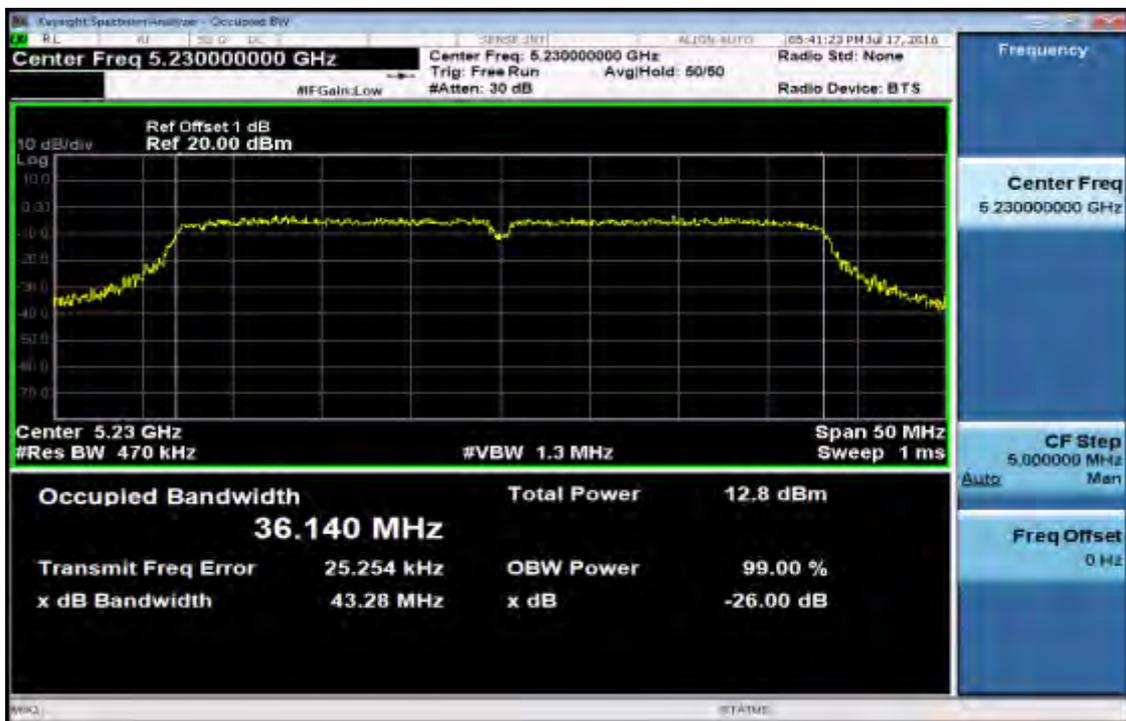
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802.11n HT40, 5150~5250 MHz (Main)
26dB & 99% Band Width Test Data CH-Low (5190 MHz)



26dB & 99% Band Width Test Data CH-High (5230 MHz)



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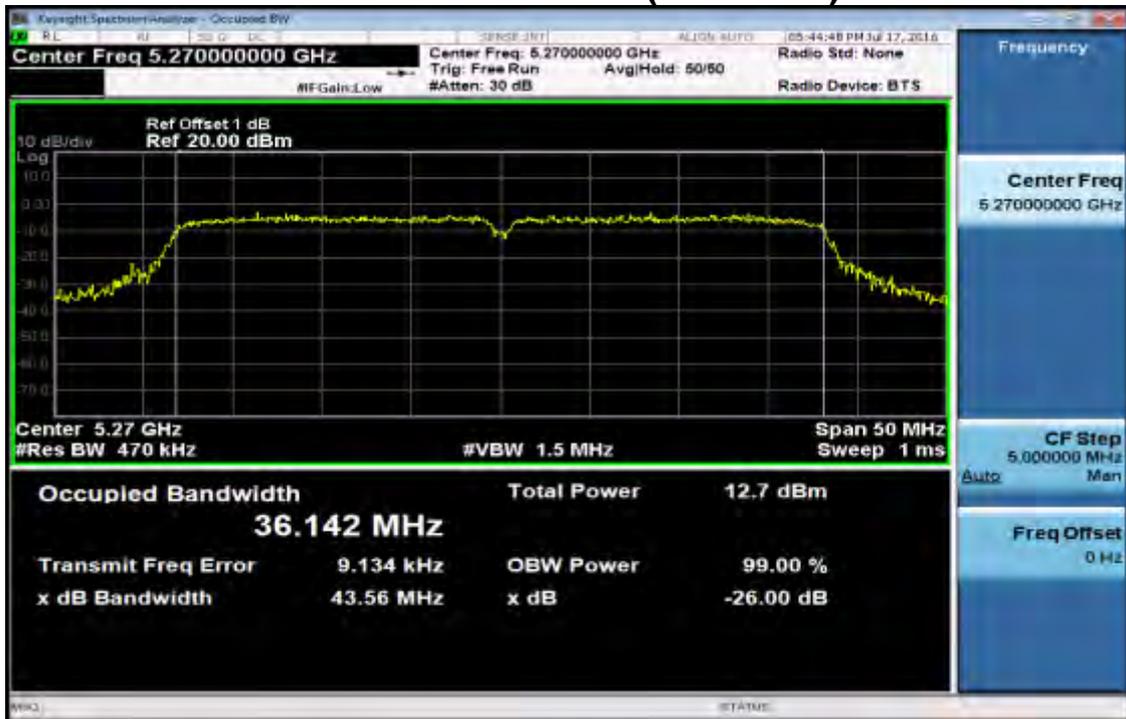
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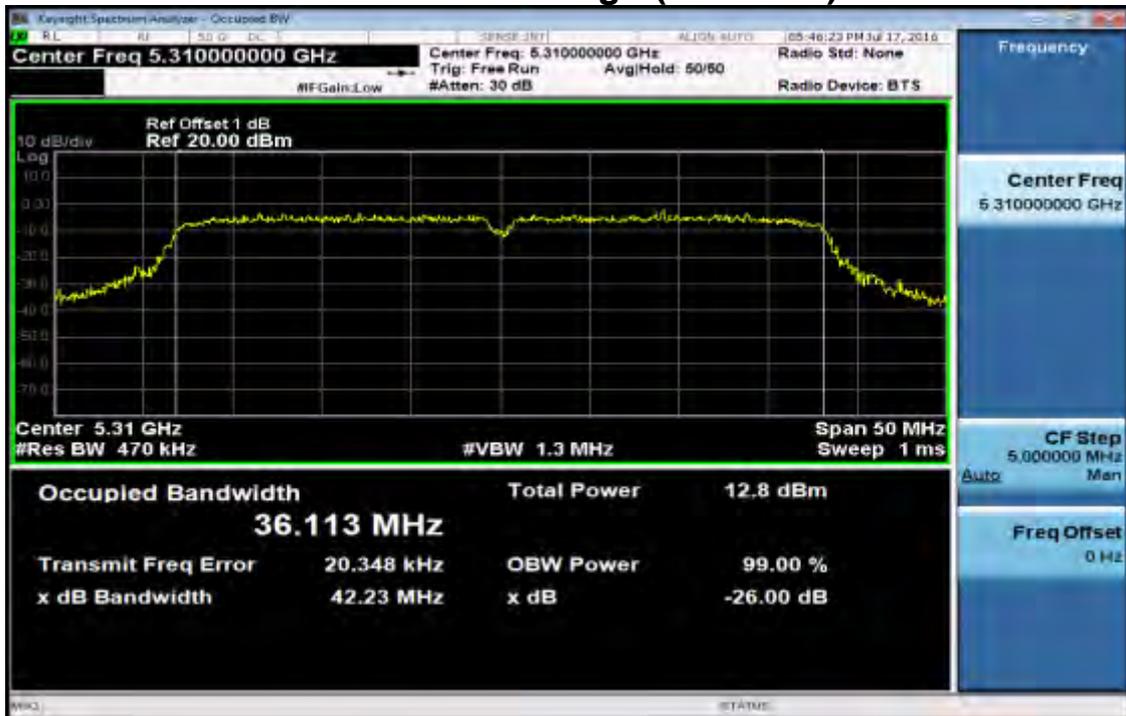
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**802.11n HT40, 5250~5350 MHz (Main)
26dB & 99% Band Width Test Data CH-Low (5270 MHz)**



26dB & 99% Band Width Test Data CH-High (5310MHz)



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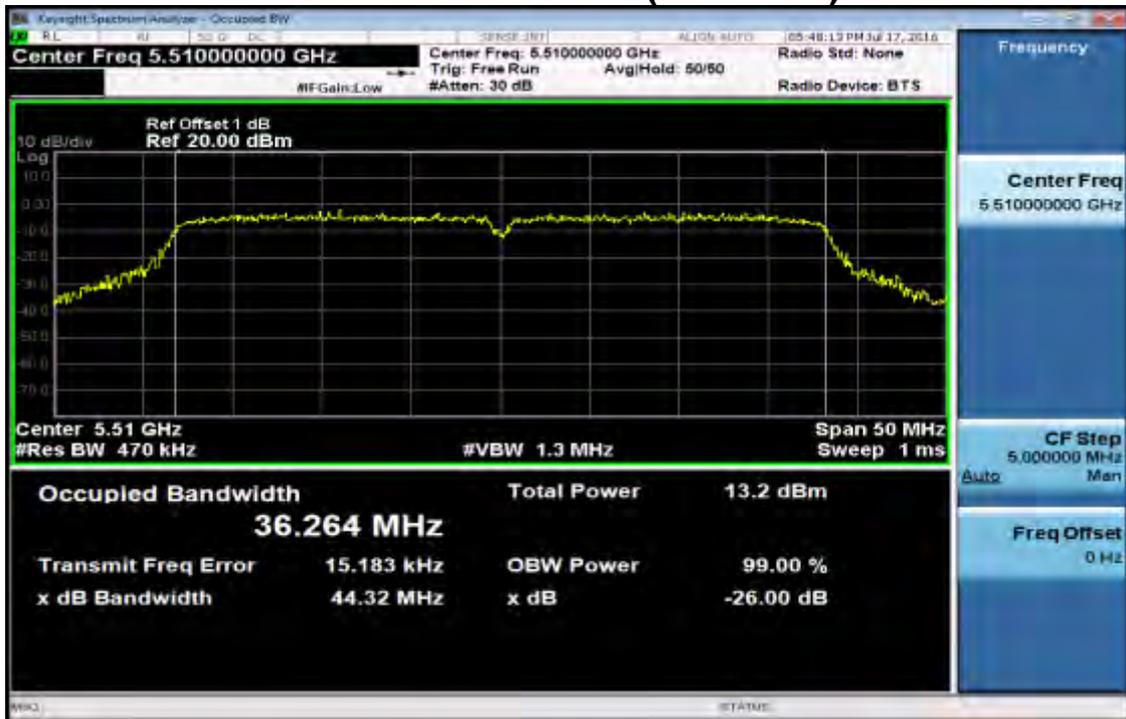
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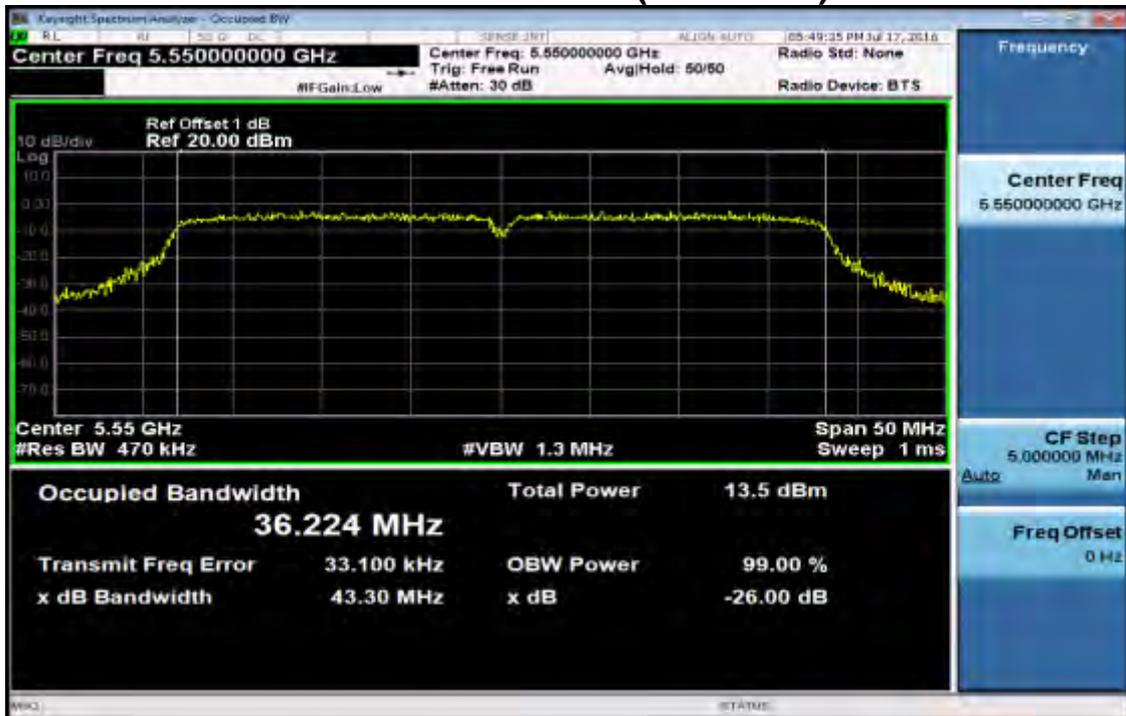
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**802.11n HT40, 5470~5725 MHz (Main)
26dB & 99% Band Width Test Data CH-Low (5510 MHz)**



26dB & 99% Band Width Test Data CH-Mid (5550 MHz)



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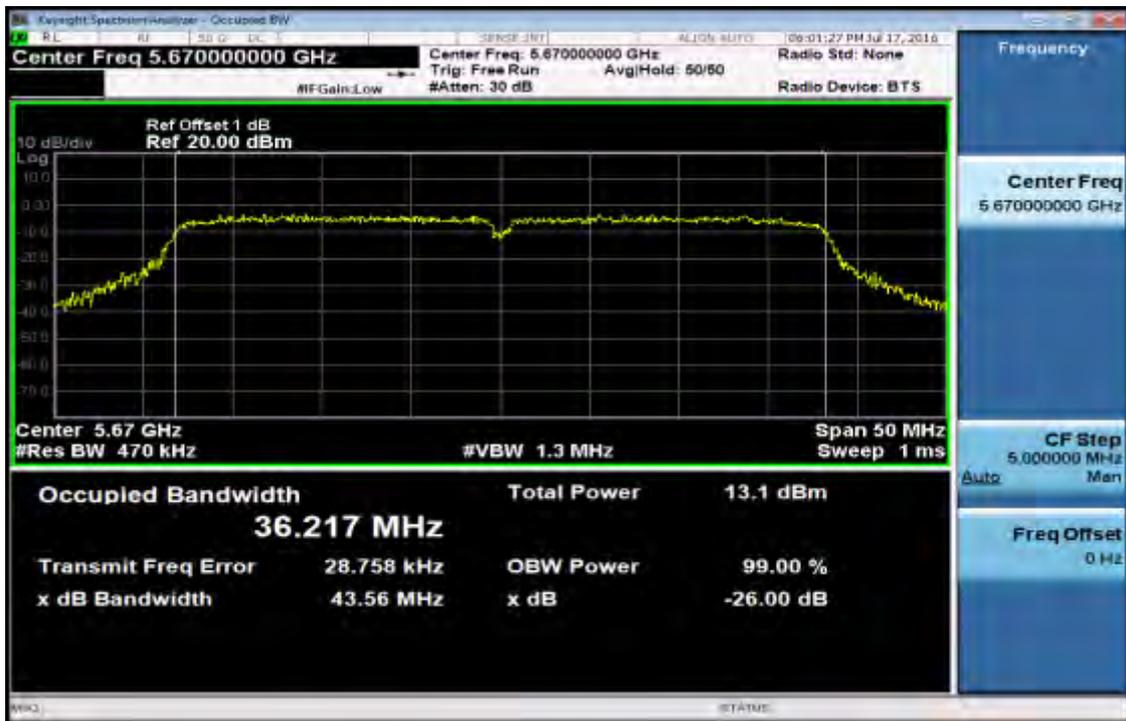
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26dB & 99% Band Width Test Data CH-High (5670 MHz)



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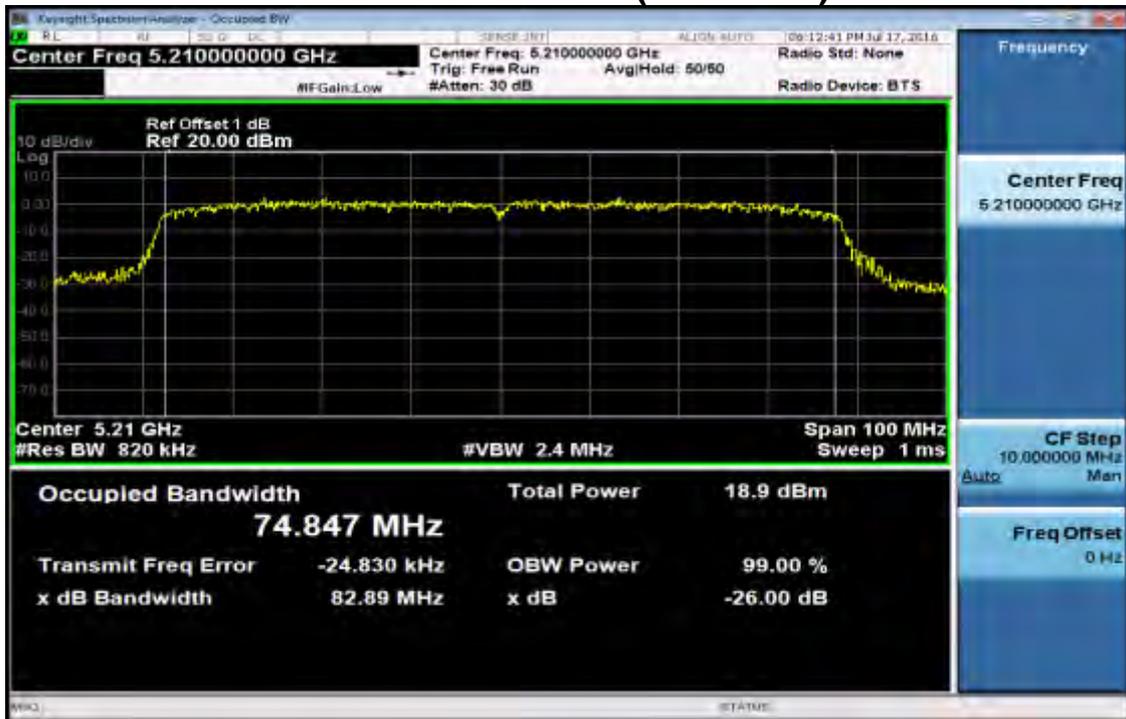
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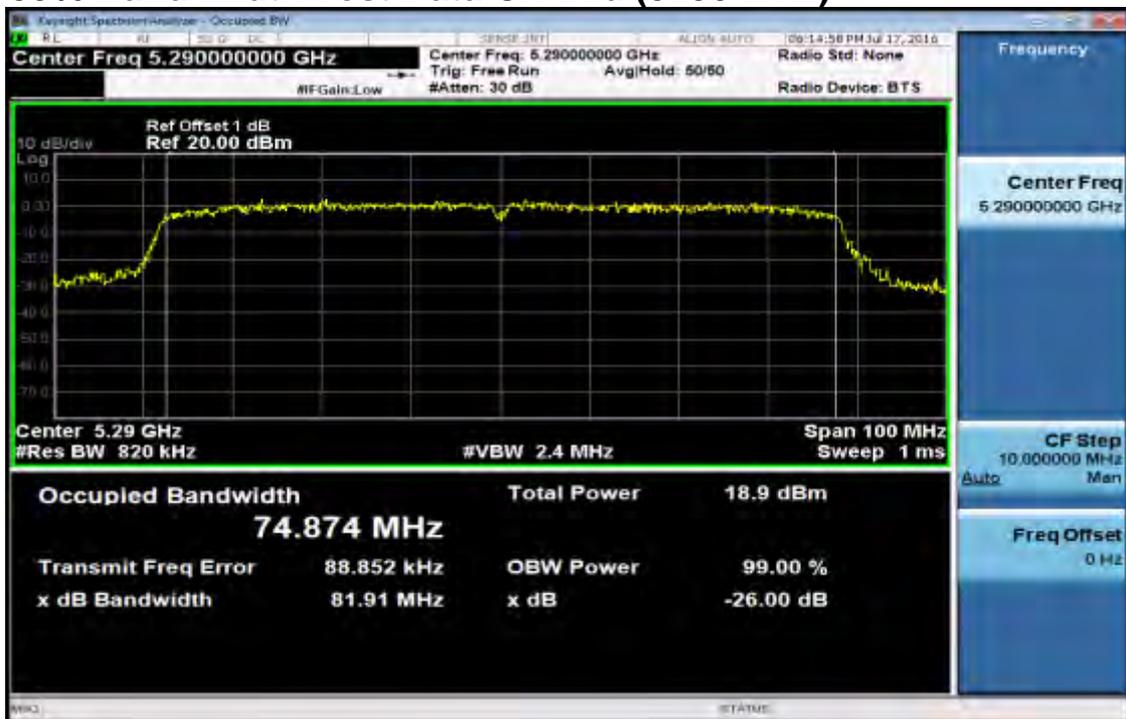
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**802.11ac VHT80, 5150~5250 MHz (Main)
26dB & 99% Band Width Test Data CH-Mid (5210 MHz)**



**802.11ac VHT80, 5250~5350 MHz
26dB & 99% Band Width Test Data CH-Mid (5290 MHz)**



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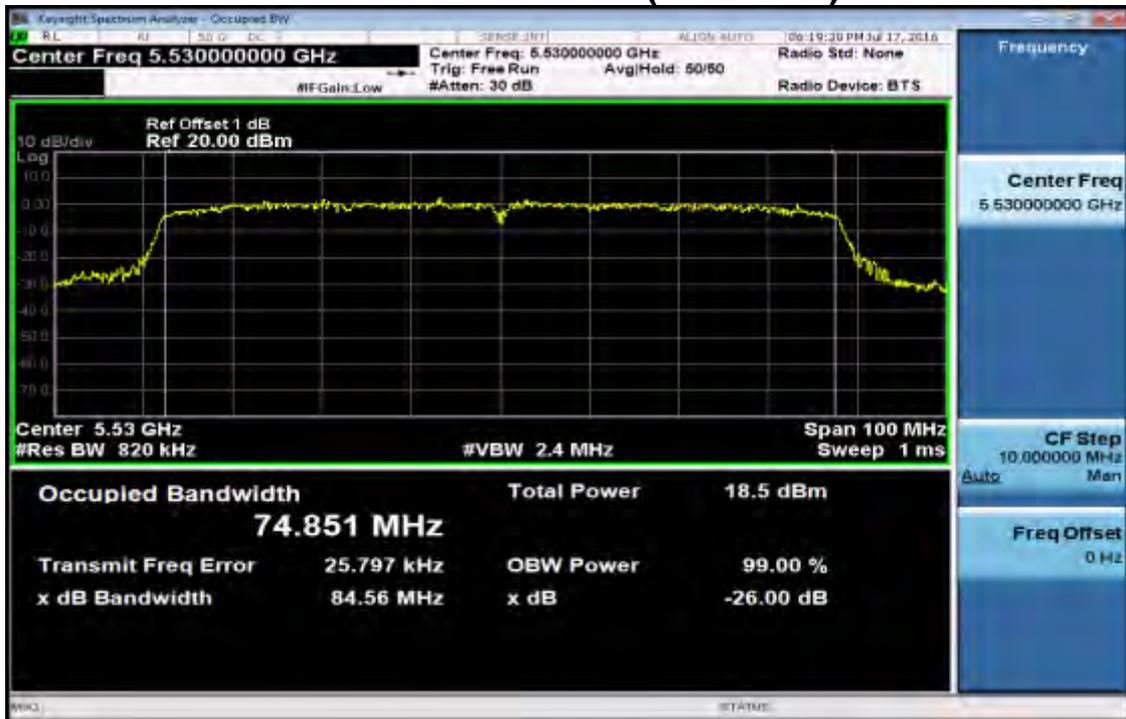
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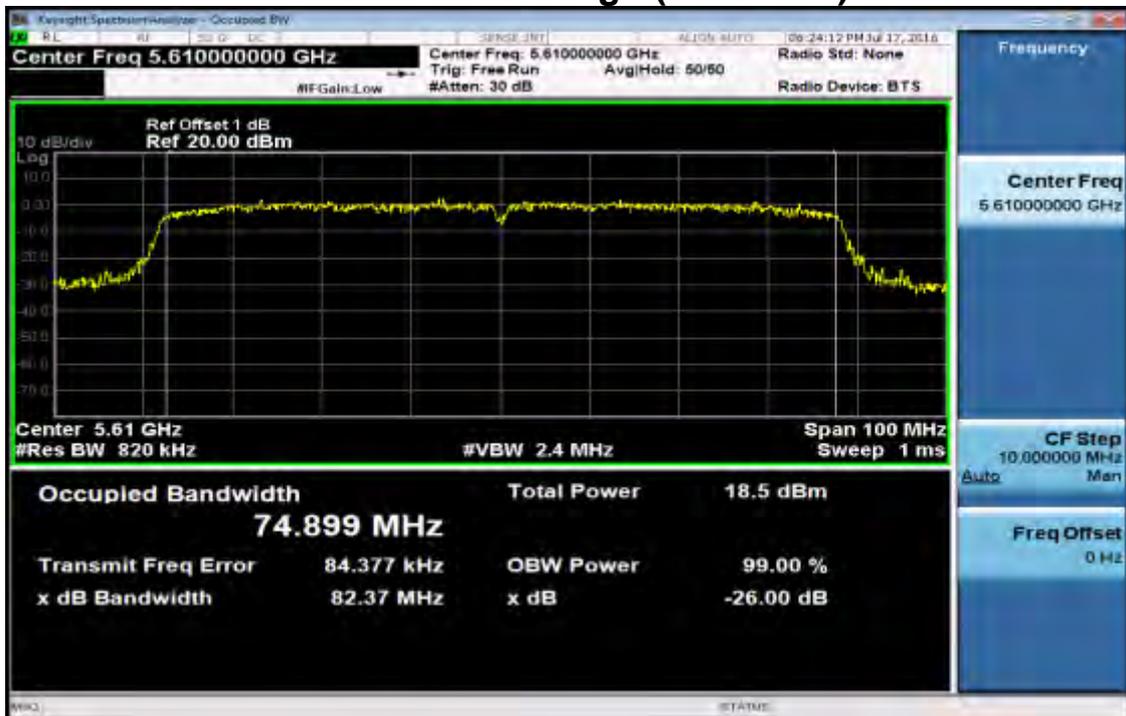
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**802.11ac VHT80, 5470~5725 MHz (Main)
26dB & 99% Band Width Test Data CH-Low (5530 MHz)**



**802.11ac VHT80, 5470~5725 MHz (Main)
26dB & 99% Band Width Test Data CH-High (5610 MHz)**



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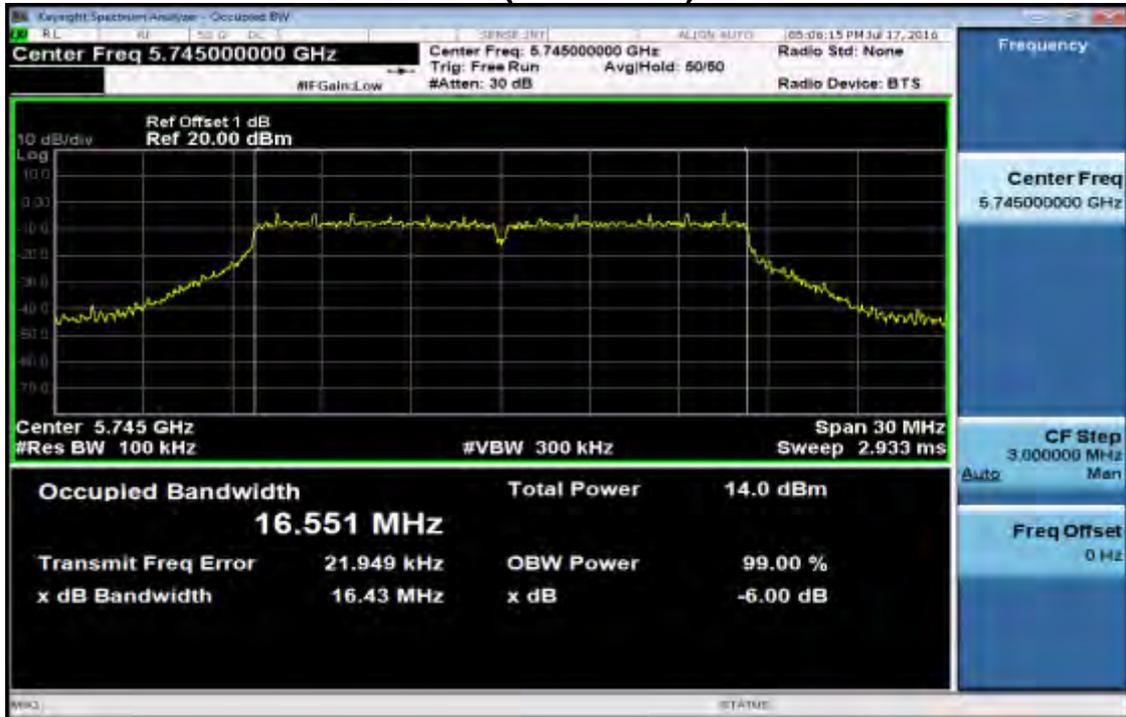
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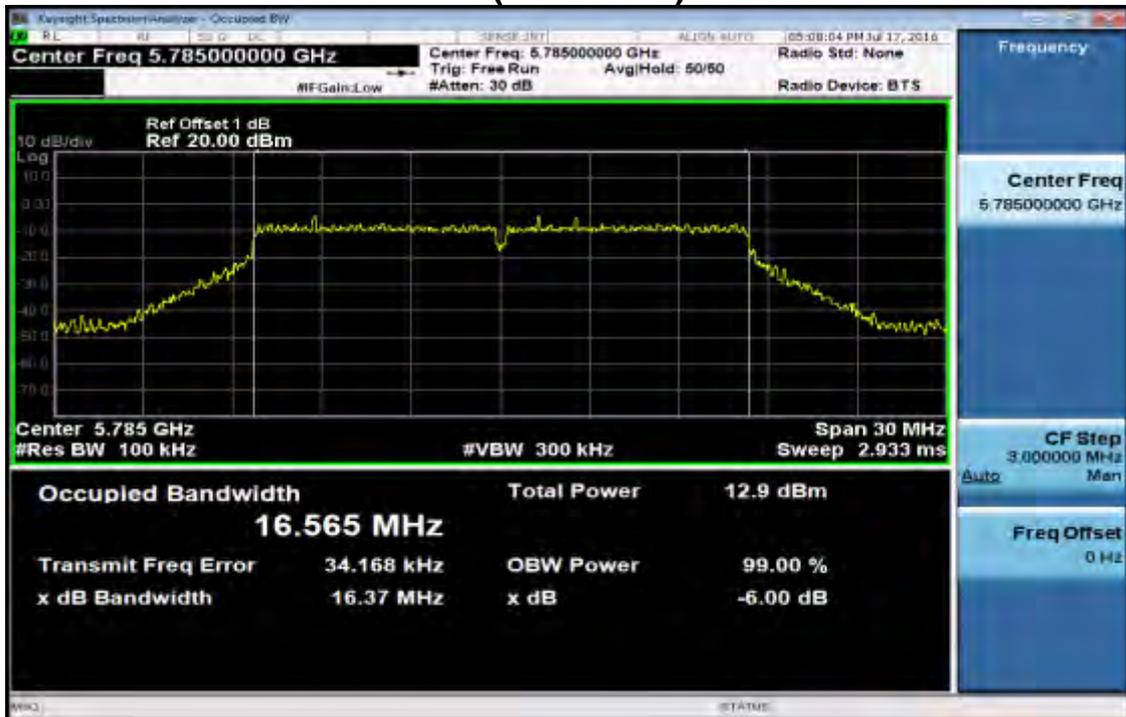
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6dB Band Width measure with Peak detector
802.11a, 5725~5850 MHz (Main)
6dB Band Width Test Data CH-Low (5745 MHz)



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



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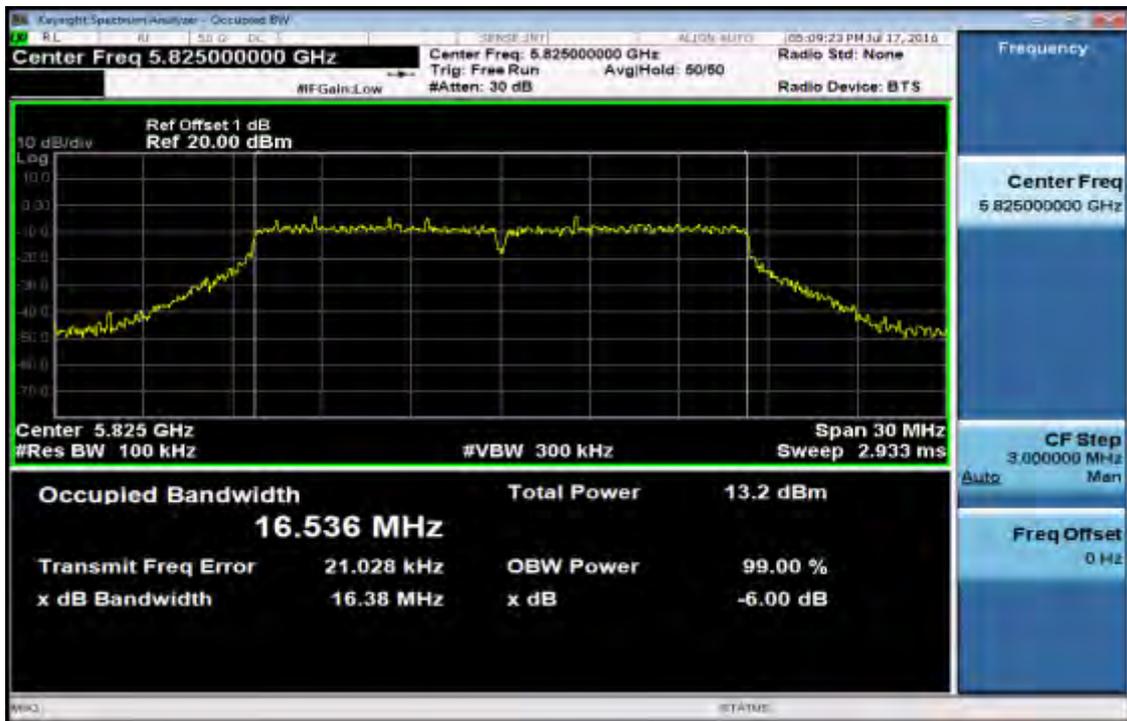
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6dB Band Width Test Data CH-High (5825 MHz)



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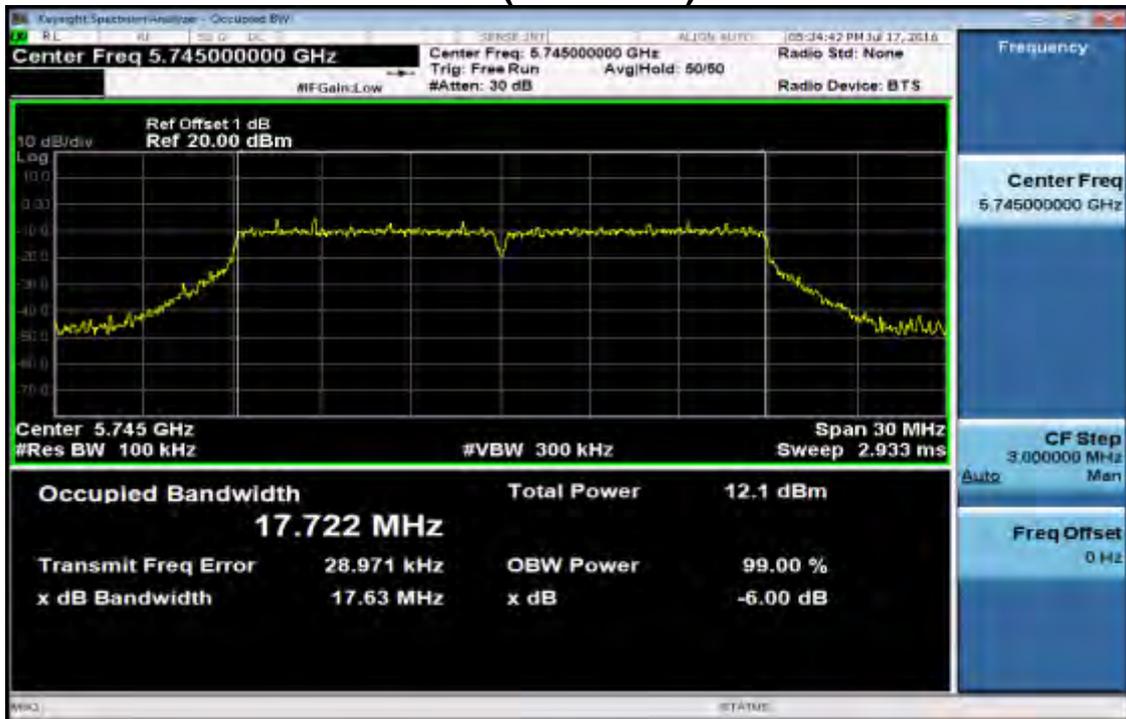
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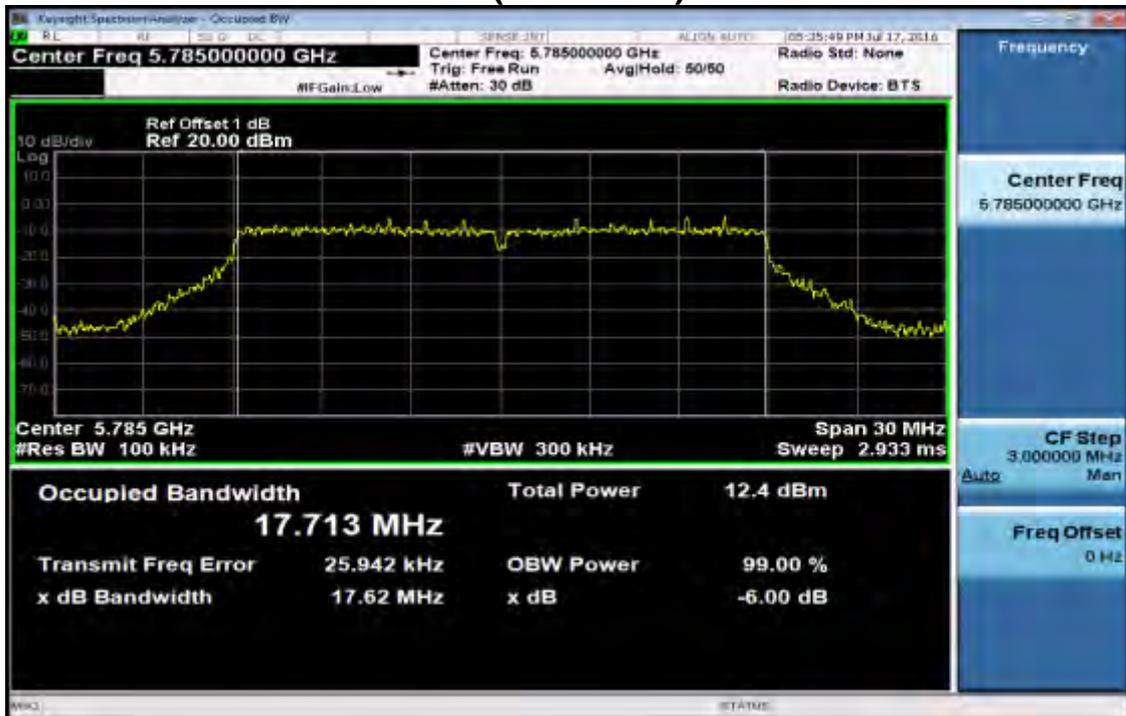
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802.11n_HT20, 5725~5850 MHz (Main)
6dB Band Width Test Data CH-Low (5745 MHz)



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



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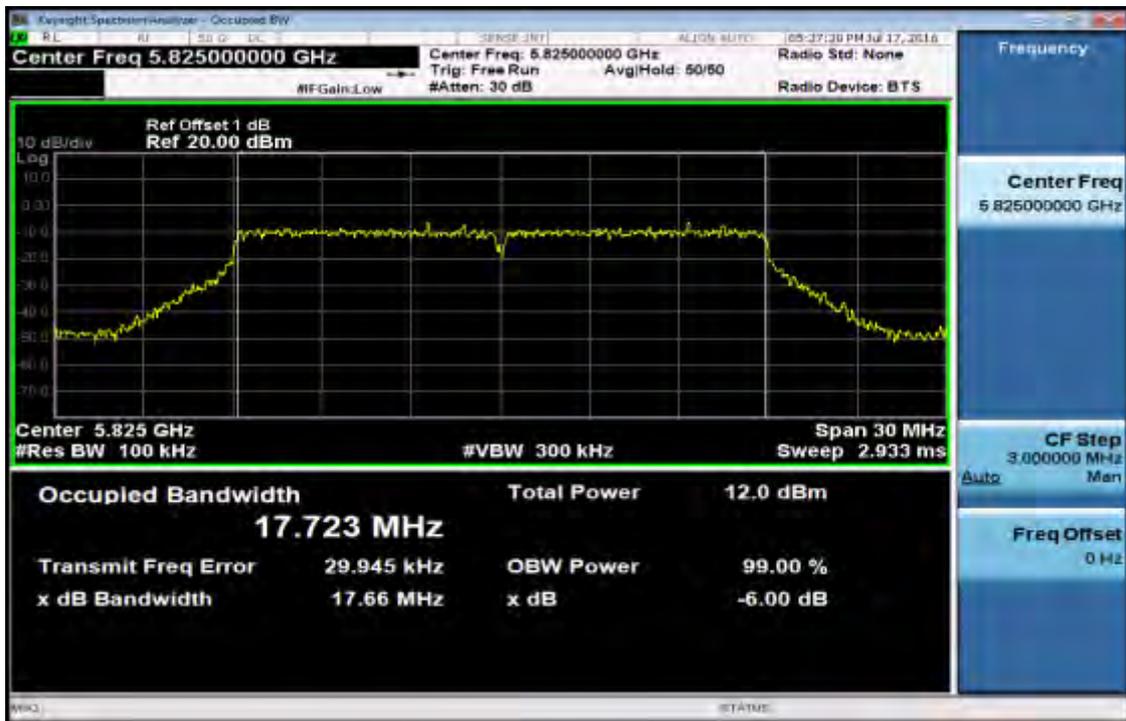
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6dB Band Width Test Data CH-High (5825 MHz)



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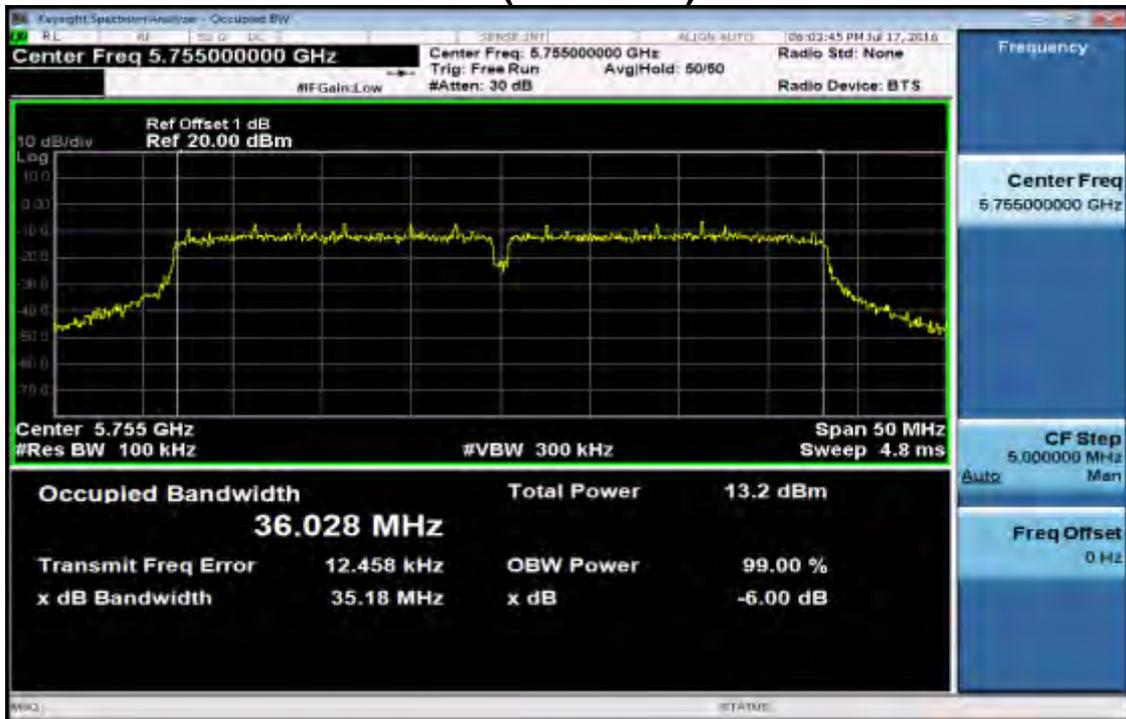
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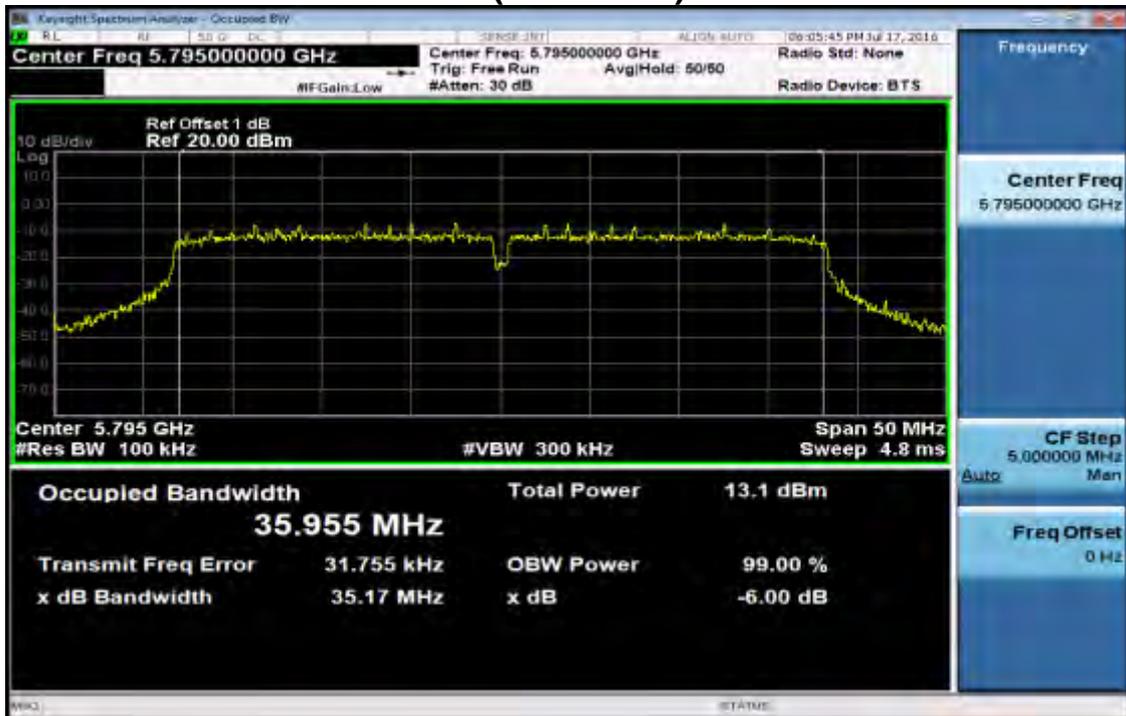
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802.11n_HT40, 5725~5850 MHz (Main)
6dB Band Width Test Data CH-Low (5755 MHz)



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



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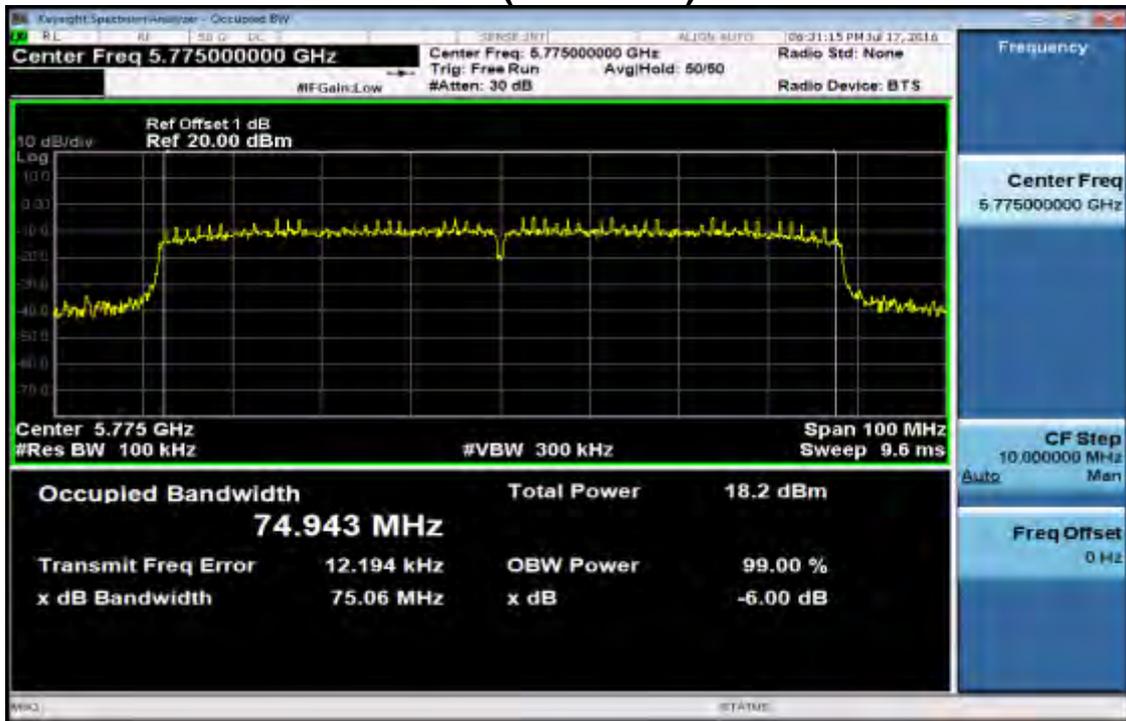
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802.11ac VHT80, 5725~5850 MHz (Main)
6dB Band Width Test Data CH-Low (5775 MHz)



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9. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

FCC

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Mater device)	1 Watt(30dBm)
		Fixed point-to-point Acess Ponit	1 Watt(30dBm)
	√	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 directional gain of the antenna exceeds 6 dBi.

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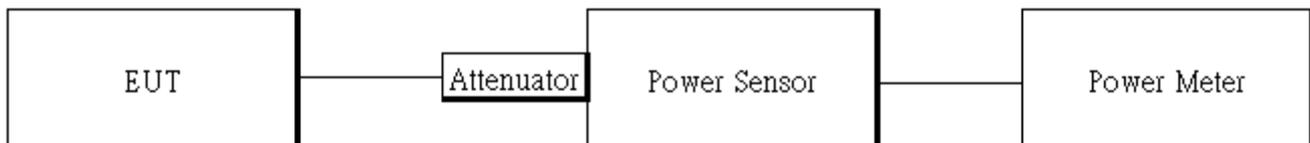
9.2 Measurement Procedure

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

9.3 Measurement Equipment Used

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
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	12/12/2015	12/11/2016
DC Block	PASTERNAK	PE8210	RF29	12/12/2015	12/11/2016
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2016	05/03/2017

9.4 Test Set-up



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9.5 Measurement Result

Conducted output power

(FCC)

802.11a_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	14.61	28.907	23.98	PASS
44	5220	MCS0	14.58	28.708	23.98	PASS
48	5240	MCS0	14.55	28.510	23.98	PASS
52	5260	MCS0	14.51	28.249	23.98 or $11+10\log(B) = 24.47$	PASS
60	5300	MCS0	14.94	31.189	23.98 or $11+10\log(B) = 24.41$	PASS
64	5320	MCS0	14.95	31.261	23.98 or $11+10\log(B) = 24.41$	PASS
100	5500	MCS0	14.88	30.761	23.98 or $11+10\log(B) = 24.45$	PASS
116	5580	MCS0	14.65	29.174	23.98 or $11+10\log(B) = 24.45$	PASS
140	5700	MCS0	14.91	30.974	23.98 or $11+10\log(B) = 24.43$	PASS
149	5745	MCS0	14.93	31.117	30	PASS
157	5785	MCS0	14.63	29.040	30	PASS
165	5825	MCS0	14.86	30.620	30	PASS

802.11n_HT20_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	13.97	24.946	23.98	PASS
44	5220	MCS0	13.98	25.003	23.98	PASS
48	5240	MCS0	13.92	24.660	23.98	PASS
52	5260	MCS0	13.96	24.889	23.98 or $11+10\log(B) = 24.56$	PASS
60	5300	MCS0	13.95	24.831	23.98 or $11+10\log(B) = 24.52$	PASS
64	5320	MCS0	13.94	24.774	23.98 or $11+10\log(B) = 24.61$	PASS
100	5500	MCS0	13.89	24.491	23.98 or $11+10\log(B) = 24.47$	PASS
116	5580	MCS0	13.97	24.946	23.98 or $11+10\log(B) = 24.52$	PASS
140	5700	MCS0	13.88	24.434	23.98 or $11+10\log(B) = 24.37$	PASS
149	5745	MCS0	13.91	24.604	30	PASS
157	5785	MCS0	13.96	24.889	30	PASS
165	5825	MCS0	13.92	24.660	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	13.92	24.660	23.98	PASS
46	5230	MCS0	13.95	24.831	23.98	PASS
54	5270	MCS0	13.99	25.061	23.98 or $11+10\log(B) = 27.39$	PASS
62	5310	MCS0	13.95	24.831	23.98 or $11+10\log(B) = 27.26$	PASS
102	5510	MCS0	13.91	24.604	23.98 or $11+10\log(B) = 27.47$	PASS
110	5550	MCS0	13.96	24.889	23.98 or $11+10\log(B) = 27.36$	PASS
134	5670	MCS0	13.85	24.266	23.98 or $11+10\log(B) = 27.39$	PASS
151	5755	MCS0	13.86	24.322	30	PASS
159	5795	MCS0	13.61	22.961	30	PASS

802.11ac_VHT80_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	9.96	9.908	23.98	PASS
58	5290	MCS0	9.95	9.886	23.98 or $11+10\log(B) = 30.13$	PASS
106	5530	MCS0	9.55	9.016	23.98 or $11+10\log(B) = 30.27$	PASS
122	5610	MCS0	9.71	9.354	23.98 or $11+10\log(B) = 30.16$	PASS
155	5775	MCS0	9.57	9.057	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	14.51	28.249	23.98 or $11+10\log(B) = 23.29$	PASS
60	5300	14.94	31.189	23.98 or $11+10\log(B) = 23.27$	PASS
64	5320	14.95	31.261	23.98 or $11+10\log(B) = 23.27$	PASS
100	5500	14.88	30.761	23.98 or $11+10\log(B) = 23.27$	PASS
116	5580	14.65	29.174	23.98 or $11+10\log(B) = 23.25$	PASS
140	5700	14.91	30.974	23.98 or $11+10\log(B) = 23.27$	PASS
149	5745	14.93	31.117	30	PASS
157	5785	14.63	29.040	30	PASS
165	5825	14.86	30.620	30	PASS

802.11n_HT20_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	13.96	24.889	23.98 or $11+10\log(B) = 23.53$	PASS
60	5300	13.95	24.831	23.98 or $11+10\log(B) = 23.54$	PASS
64	5320	13.94	24.774	23.98 or $11+10\log(B) = 23.53$	PASS
100	5500	13.89	24.491	23.98 or $11+10\log(B) = 23.53$	PASS
116	5580	13.97	24.946	23.98 or $11+10\log(B) = 23.53$	PASS
140	5700	13.88	24.434	23.98 or $11+10\log(B) = 23.52$	PASS
149	5745	13.91	24.604	30	PASS
157	5785	13.96	24.889	30	PASS
165	5825	13.92	24.660	30	PASS

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802.11n_HT40_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	13.99	25.061	23.98 or $11+10\log(B) = 26.58$	PASS
62	5310	13.95	24.831	23.98 or $11+10\log(B) = 26.58$	PASS
102	5510	13.91	24.604	23.98 or $11+10\log(B) = 26.59$	PASS
110	5550	13.96	24.889	23.98 or $11+10\log(B) = 26.59$	PASS
134	5670	13.85	24.266	23.98 or $11+10\log(B) = 26.59$	PASS
151	5755	13.86	24.322	30	PASS
159	5795	13.61	22.961	30	PASS

802.11ac_VHT80_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	9.95	9.886	23.98 or $11+10\log(B) = 29.74$	PASS
106	5530	9.55	9.016	23.98 or $11+10\log(B) = 29.74$	PASS
122	5610	9.71	9.354	23.98 or $11+10\log(B) = 29.74$	PASS
155	5775	9.57	9.057	30	PASS

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EIRP

802.11a_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	14.61	-0.20	14.410	23.01 or 10+10log(B)= 22.26	PASS
44	5220	14.58	-0.20	14.380	23.01 or 10+10log(B)= 22.26	PASS
48	5240	14.55	-0.20	14.350	23.01 or 10+10log(B)= 22.30	PASS
52	5260	14.51	-0.50	14.010	30 or 17+10log(B)= 29.29	PASS
60	5300	14.94	-0.50	14.440	30 or 17+10log(B)= 29.27	PASS
64	5320	14.95	-0.50	14.450	30 or 17+10log(B)= 29.27	PASS
100	5500	14.88	-3.30	11.580	30 or 17+10log(B)= 29.27	PASS
116	5580	14.65	-3.30	11.350	30 or 17+10log(B)= 29.25	PASS
140	5700	14.91	-3.30	11.610	30 or 17+10log(B)= 29.27	PASS

802.11n_HT20_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.97	-0.20	13.770	23.01 or 10+10log(B)= 22.53	PASS
44	5220	13.98	-0.20	13.780	23.01 or 10+10log(B)= 22.54	PASS
48	5240	13.92	-0.20	13.720	23.01 or 10+10log(B)= 22.52	PASS
52	5260	13.96	-0.50	13.460	30 or 17+10log(B)= 29.53	PASS
60	5300	13.95	-0.50	13.450	30 or 17+10log(B)= 29.54	PASS
64	5320	13.94	-0.50	13.440	30 or 17+10log(B)= 29.53	PASS
100	5500	13.89	-3.30	10.590	30 or 17+10log(B)= 29.53	PASS
116	5580	13.97	-3.30	10.670	30 or 17+10log(B)= 29.53	PASS
140	5700	13.88	-3.30	10.580	30 or 17+10log(B)= 29.52	PASS

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802.11n_HT40_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
38	5190	13.92	-0.20	13.720	23.01 or 10+10log(B)= 25.59	PASS
46	5230	13.95	-0.20	13.750	23.01 or 10+10log(B)= 25.58	PASS
54	5270	13.99	-0.50	13.490	30 or 17+10log(B)= 32.58	PASS
62	5310	13.95	-0.50	13.450	30 or 17+10log(B)= 32.58	PASS
102	5510	13.91	-3.30	10.610	30 or 17+10log(B)= 32.59	PASS
110	5550	13.96	-3.30	10.660	30 or 17+10log(B)= 32.59	PASS
134	5670	13.85	-3.30	10.550	30 or 17+10log(B)= 32.59	PASS

802.11ac_VHT80_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
42	5210	9.96	-0.20	9.760	23.01 or 10+10log(B)= 28.74	PASS
58	5290	9.95	-0.50	9.450	30 or 17+10log(B)= 35.74	PASS
106	5530	9.55	-3.30	6.250	30 or 17+10log(B)= 35.74	PASS
122	5610	9.71	-3.30	6.410	30 or 17+10log(B)= 35.74	PASS

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10. PEAK POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

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

IC

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

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

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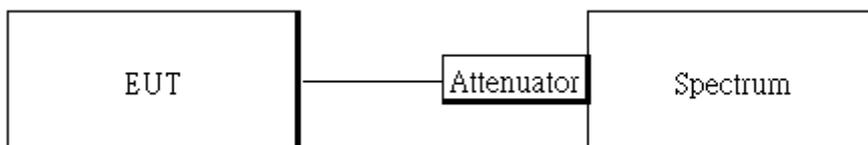
10.2 Measurement Procedure

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

10.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
DC Block	PASTERNAK	PE8210	RF29	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016

10.4 Test Set-up



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10.5 Measurement Result

POWER DENSITY 802.11a MODE				
Frequency (MHz)	PPSD (dBm)	Offset	Limit (dBm)	Margin (dB)
5180	-11.16	1.00	11	-22.16
5220	-11.87	1.00	11	-22.87
5240	-9.11	1.00	11	-20.11
5260	-9.34	1.00	11	-20.34
5300	-10.84	1.00	11	-21.84
5320	-7.60	1.00	11	-18.60
5500	-9.31	1.00	11	-20.31
5580	-7.75	1.00	11	-18.75
5700	-11.78	1.00	11	-22.78
5745	0.34	1.00	30	-29.66
5785	0.62	1.00	30	-29.38
5825	0.23	1.00	30	-29.77

POWER DENSITY 802.11n HT20 MODE				
Frequency (MHz)	PPSD (dBm)	Offset	Limit (dBm)	Margin (dB)
5180	-11.72	1.00	11	-22.72
5220	-11.16	1.00	11	-22.16
5240	-9.77	1.00	11	-20.77
5260	-9.53	1.00	11	-20.53
5300	-11.20	1.00	11	-22.20
5320	-11.90	1.00	11	-22.90
5500	-10.18	1.00	11	-21.18
5580	-12.50	1.00	11	-23.50
5700	-8.51	1.00	11	-19.51
5745	-0.41	1.00	30	-30.41
5785	-0.54	1.00	30	-30.54
5825	-0.90	1.00	30	-30.90

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POWER DENSITY 802.11n HT40 MODE				
Frequency (MHz)	PPSD (dBm)	Offset	Limit (dBm)	Margin (dB)
5190	-17.64	1.00	11	-28.64
5230	-20.93	1.00	11	-31.93
5270	-15.1	1.00	11	-26.10
5310	-19.49	1.00	11	-30.49
5510	-17.25	1.00	11	-28.25
5550	-16.53	1.00	11	-27.53
5670	-13.92	1.00	11	-24.92
5755	-1.80	1.00	30	-31.80
5795	-3.04	1.00	30	-33.04

POWER DENSITY 802.11ac VHT80 MODE				
Frequency (MHz)	PPSD (dBm)	Offset	Limit (dBm)	Margin (dB)
5210	-23.17	1.00	11	-34.17
5290	-25.27	1.00	11	-36.27
5530	-26.85	1.00	11	-37.85
5610	-27.20	1.00	11	-38.20
5775	-0.60	1.00	30	-30.60

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EIRP Power Density (For IC Band 1)

EIRP spectral density 802.11a MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	-11.16	-0.20	-11.36	10	-21.16
5220	-11.87	-0.20	-12.07	10	-21.87
5240	-9.11	-0.20	-9.31	10	-19.11

EIRP spectral density 802.11n HT20 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	-11.72	-0.20	-11.92	10	-21.72
5220	-11.16	-0.20	-11.36	10	-21.16
5240	-9.77	-0.20	-9.97	10	-19.77

EIRP spectral density 802.11n HT40 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	-17.64	-0.20	-17.84	10	-27.64
5220	-20.93	-0.20	-21.13	10	-30.93

EIRP spectral density 802.11ac VHT80 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5210	-23.17	-0.20	-23.37	10	-33.17

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



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



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



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



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



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



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



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



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



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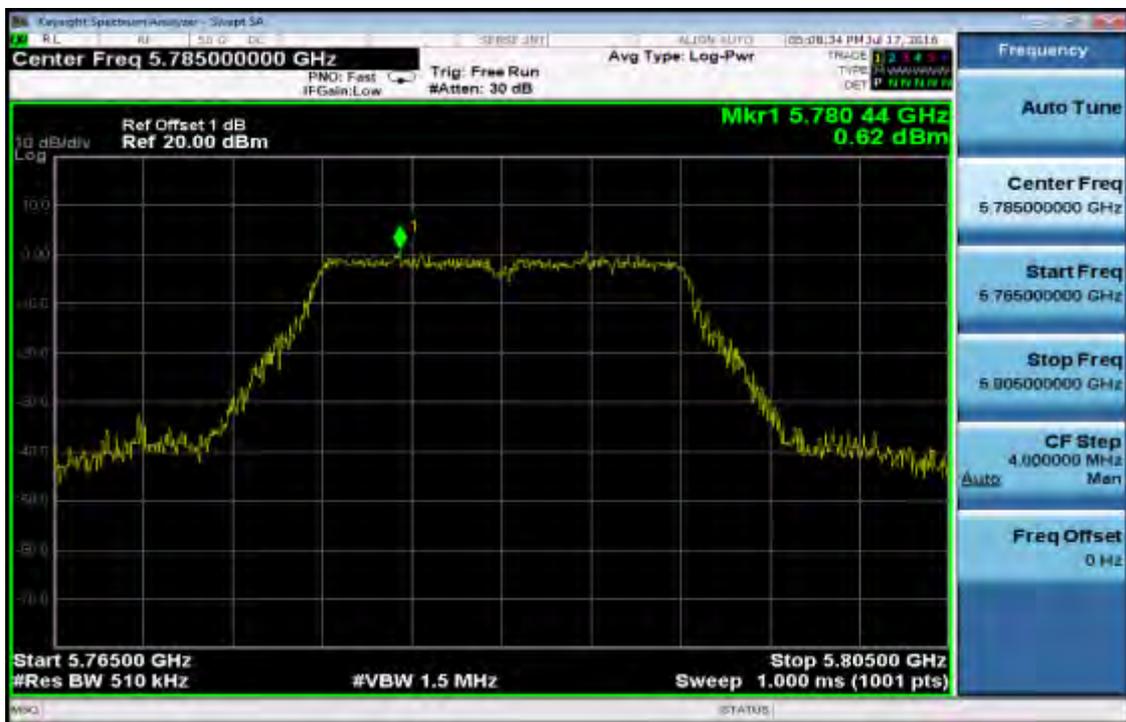
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802.11a 5725~5850 MHz
Peak Power Spectral Density Data Plot (CH Low 5745 MHz)



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



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



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Member of SGS Group

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



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



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



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



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



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



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



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



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



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802.11n HT20, 5725~5850 MHz
Peak Power Spectral Density Data Plot (CH Low 5745 MHz)



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



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



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



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



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



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



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



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



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



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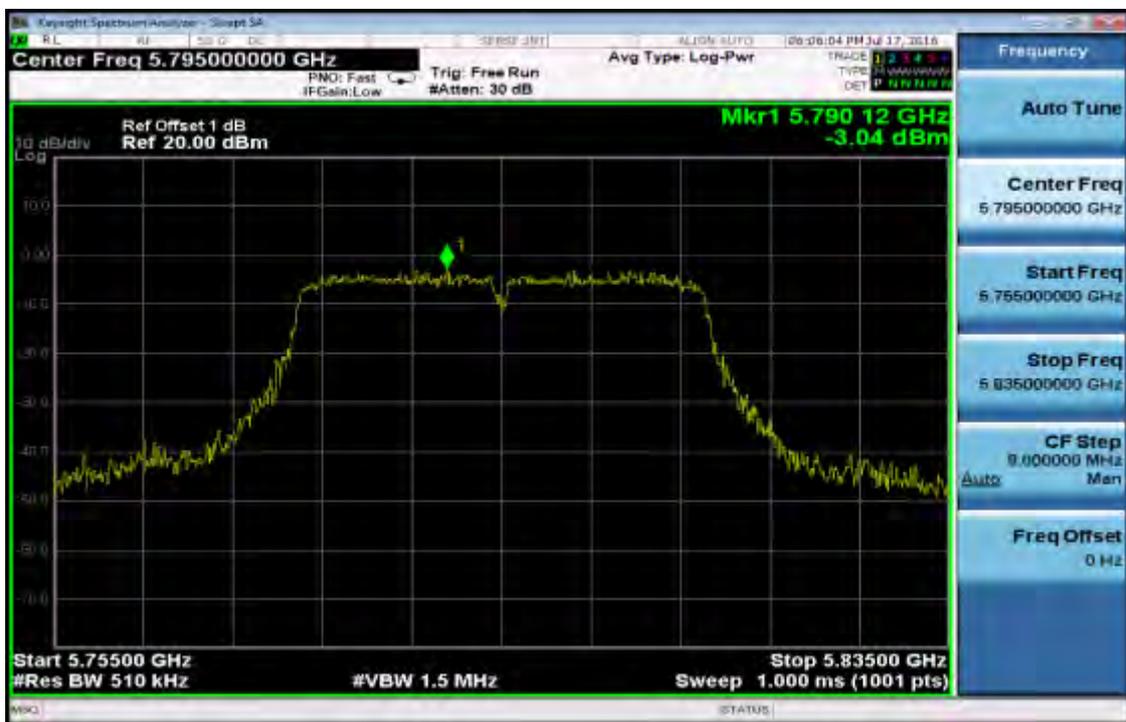
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802.11n HT40, 5725~5850 MHz
Peak Power Spectral Density Data Plot (CH Low 5755 MHz)



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



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



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



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



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



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802.11ac VHT80, 5725~5850 MHz Peak Power Spectral Density Data Plot (CH Mid 5775 MHz)



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11. UNDESIRABLE RADIATED EMISSION MEASUREMENT1

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 5.25-5.35 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.
3. For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
4. For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

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APPLICABLE TO		LIMIT	
FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01		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)	RSS-247 §6.2.4 (4)	PK: -27 (dBm/MHz) PK: -17 (dBm/MHz)	PK: 68.3 (dBµV/m) PK: 78.2 (dBµV/m)
15.407(b)(4)(i)		PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBµV/m) *1 PK:105.2 (dBµV/m) *2 PK: 110.8(dBµV/m) *3 PK:122.2 (dBµV/m) *4
<p>*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.</p>			

EIRP = (E*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	12/23/2015	12/22/2016
Broadband Antenna	TESEQ	CBL 6112D	35240	10/28/2015	10/27/2016
Horn Antenna	ETS-Lindgren	3117	00143272	12/16/2015	12/15/2016
Horn Antenna	Schwarzbeck	BBHA9170	185	07/24/2015	07/23/2016
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2015	12/11/2016
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2015	12/11/2016
Pre Amplifier	R&S	SCU-18	10204	12/12/2015	12/11/2016
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF27	12/12/2015	12/11/2016
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2016	05/03/2017
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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

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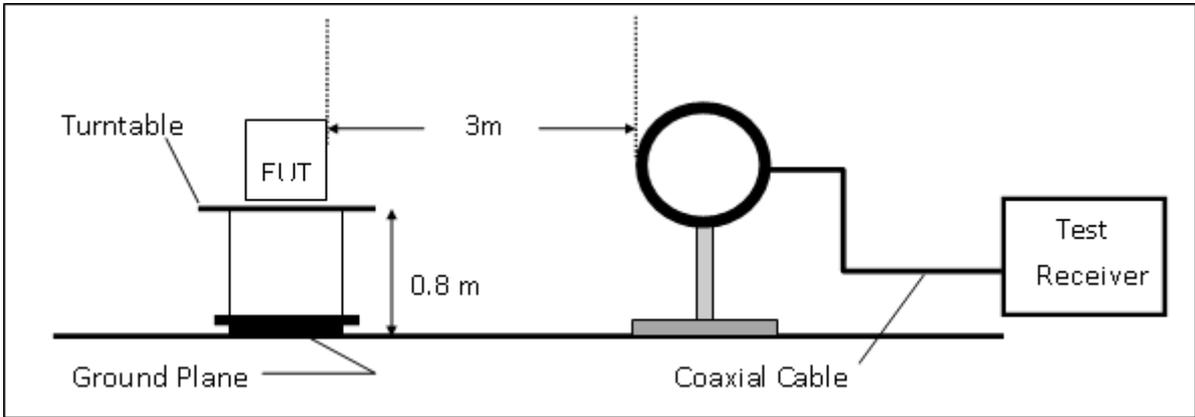
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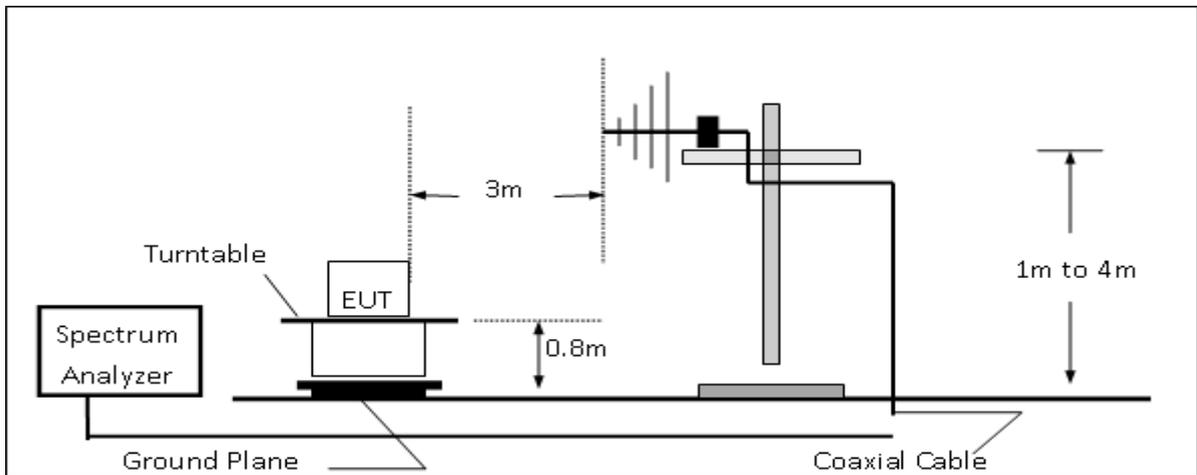
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11.3 Test SET-UP

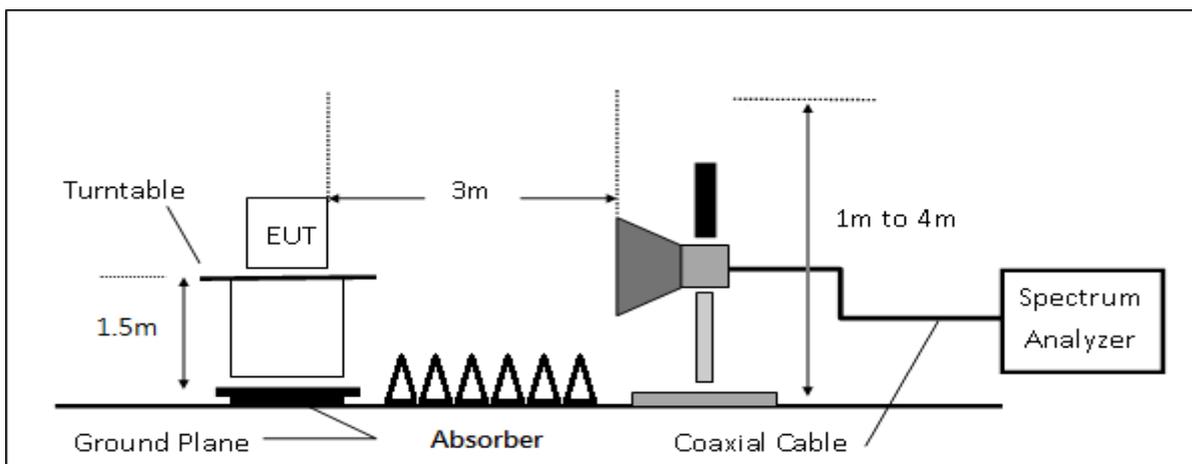
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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11.4 Measurement Procedure

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

11.5 Field Strength Calculation

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

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

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

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

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

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Note :

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

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

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

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

11.7 Measurement Result

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

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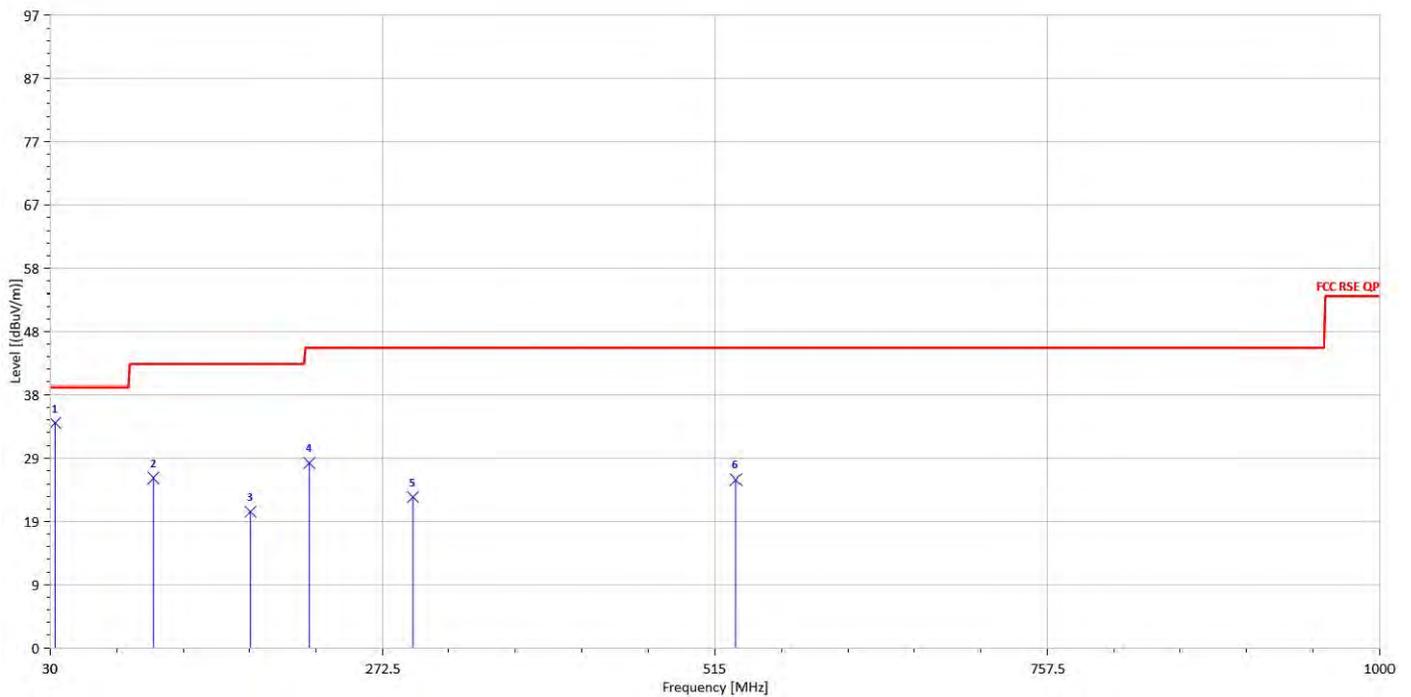
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Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

802.11a 5150~5250 MHz

Operation Mode :	802.11a	Test Date :	2016/7/18
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx Ch Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
33.88	S	Peak	43.79	-9.27	34.52	40	-5.48
105.66	S	Peak	43.10	-17.04	26.06	43.5	-17.44
176.47	S	Peak	39.43	-18.52	20.90	43.5	-22.60
219.15	S	Peak	45.42	-17.11	28.31	46	-17.69
294.81	S	Peak	36.40	-13.21	23.19	46	-22.81
530.52	S	Peak	33.01	-7.20	25.81	46	-20.19

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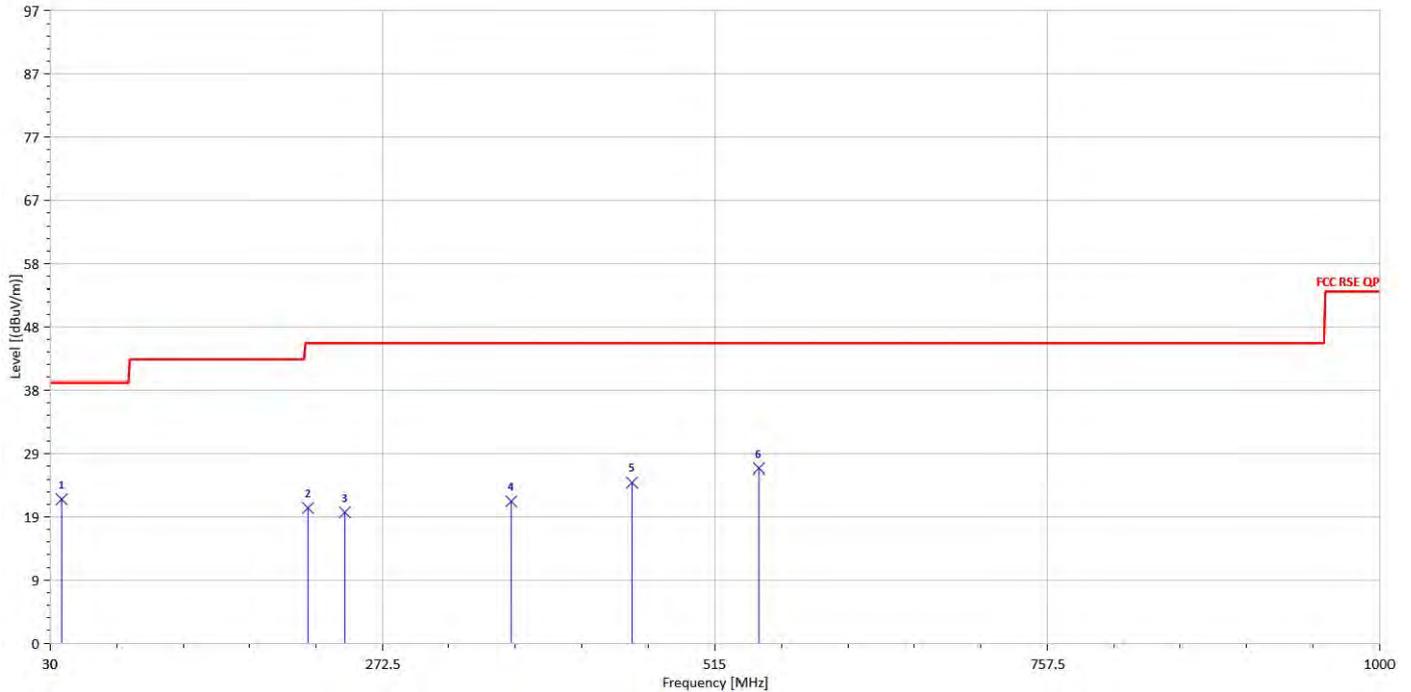
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Operation Mode : 802.11a Test Date : 2016/7/18
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
38.73	S	Peak	34.16	-12.04	22.12	40	-17.88
218.18	S	Peak	37.94	-17.15	20.79	46	-25.21
245.34	S	Peak	35.12	-15.01	20.11	46	-25.89
366.59	S	Peak	32.67	-10.86	21.80	46	-24.20
454.86	S	Peak	33.16	-8.46	24.70	46	-21.30
547.01	S	Peak	34.07	-7.27	26.80	46	-19.20

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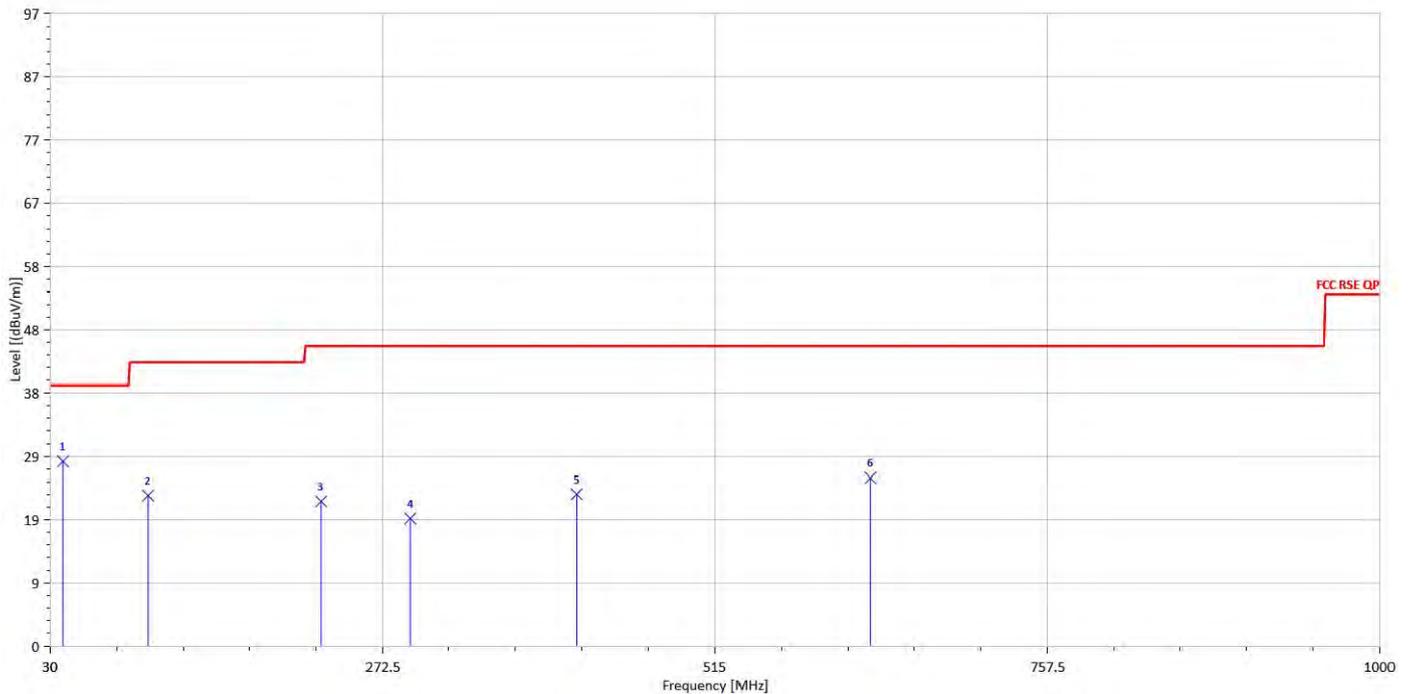
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802.11a 5250~5350 MHz

Operation Mode :	802.11a	Test Date :	2016/7/18
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx Ch Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
39.70	S	Peak	40.94	-12.63	28.31	40	-11.69
101.78	S	Peak	40.65	-17.52	23.13	43.5	-20.37
227.88	S	Peak	38.70	-16.47	22.23	46	-23.77
292.87	S	Peak	32.83	-13.23	19.60	46	-26.40
414.12	S	Peak	32.55	-9.21	23.34	46	-22.66
628.49	S	Peak	31.90	-6.08	25.82	46	-20.18

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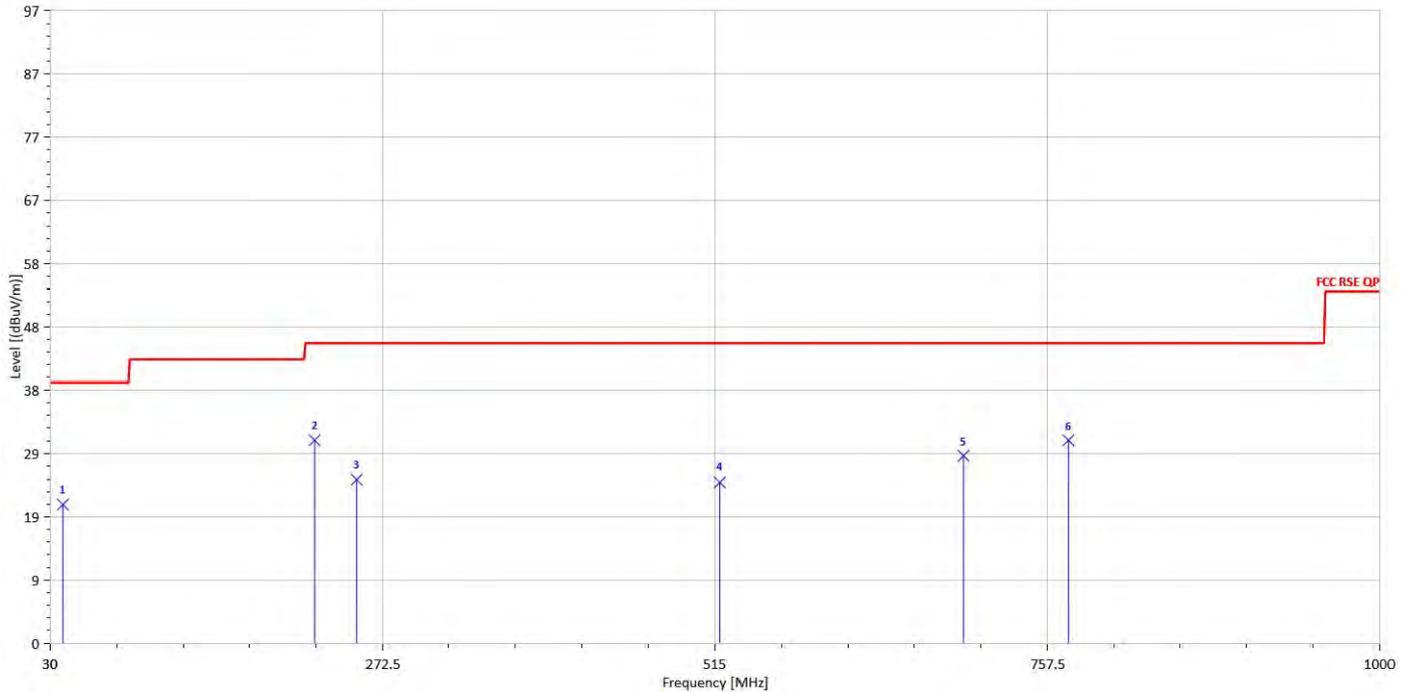
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Operation Mode : 802.11a Test Date : 2016/7/18
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
39.70	S	Peak	33.95	-12.63	21.32	40	-18.68
223.03	S	Peak	48.01	-16.88	31.13	46	-14.87
254.07	S	Peak	39.50	-14.34	25.17	46	-20.83
518.88	S	Peak	32.13	-7.40	24.73	46	-21.27
696.39	S	Peak	33.83	-5.10	28.72	46	-17.28
773.02	S	Peak	35.70	-4.59	31.11	46	-14.89

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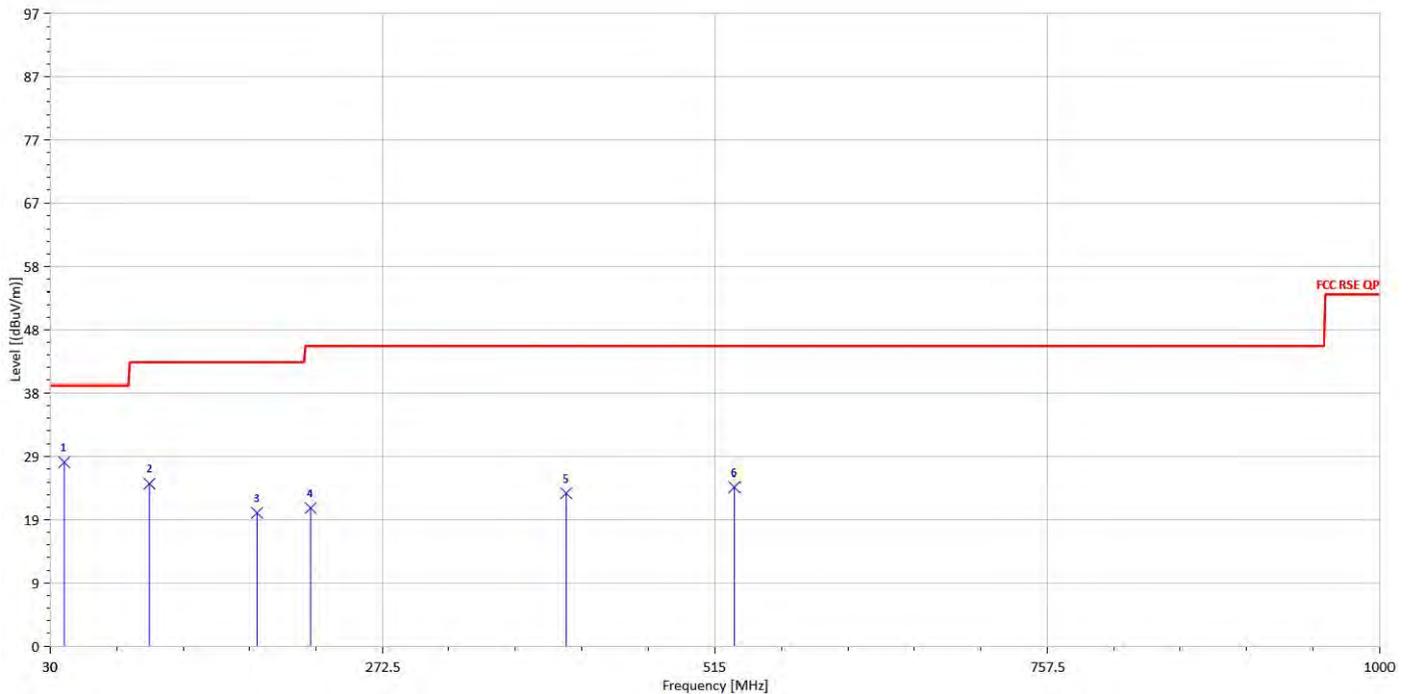
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802.11a, 5470~5725 MHz

Operation Mode :	802.11a	Test Date :	2016/7/18
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx Ch Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
40.67	S	Peak	41.46	-13.29	28.17	40	-11.83
102.75	S	Peak	42.38	-17.40	24.98	43.5	-18.52
181.32	S	Peak	38.93	-18.47	20.46	43.5	-23.04
220.12	S	Peak	38.30	-17.09	21.21	46	-24.79
406.36	S	Peak	32.83	-9.33	23.50	46	-22.50
529.55	S	Peak	31.65	-7.21	24.43	46	-21.57

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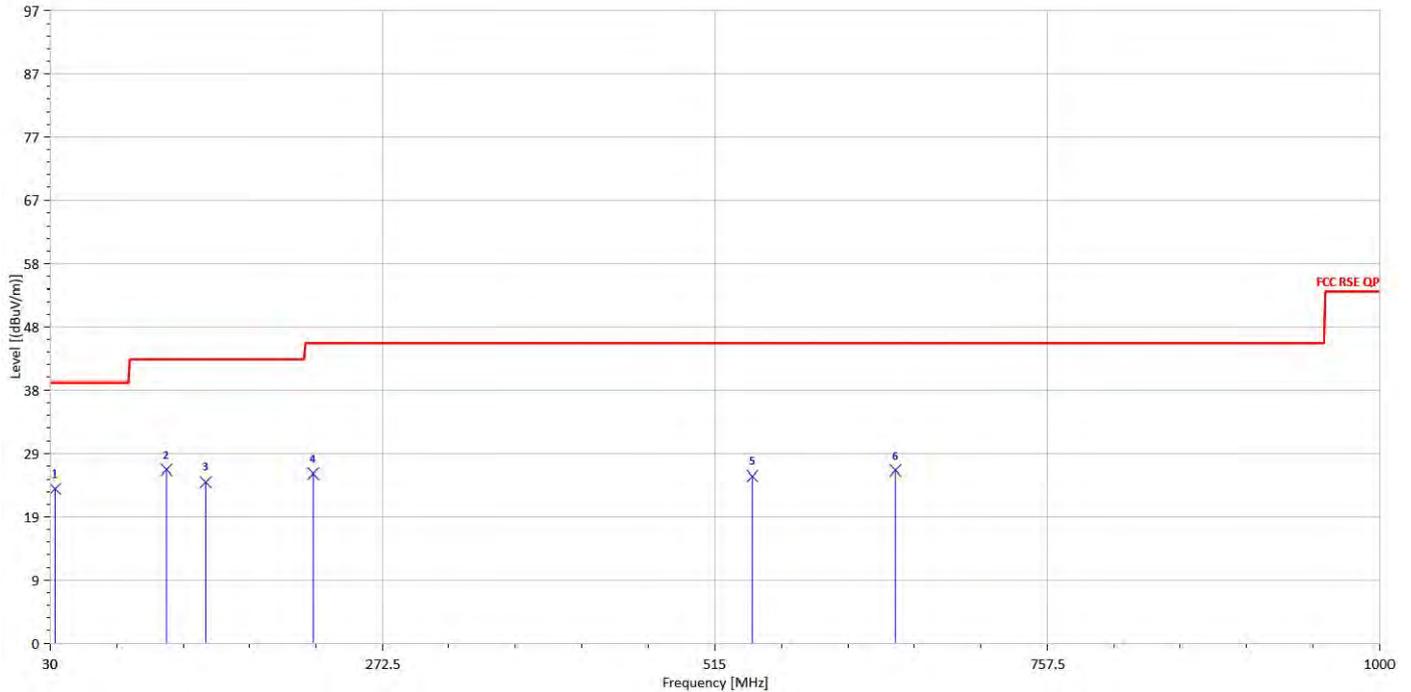
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Operation Mode : 802.11a Test Date : 2016/7/18
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
33.88	S	Peak	33.01	-9.27	23.73	40	-16.27
115.36	S	Peak	42.74	-16.15	26.59	43.5	-16.91
143.49	S	Peak	41.08	-16.32	24.76	43.5	-18.74
222.06	S	Peak	42.99	-16.96	26.02	46	-19.98
542.16	S	Peak	32.78	-7.13	25.65	46	-20.35
646.92	S	Peak	31.43	-4.92	26.51	46	-19.49

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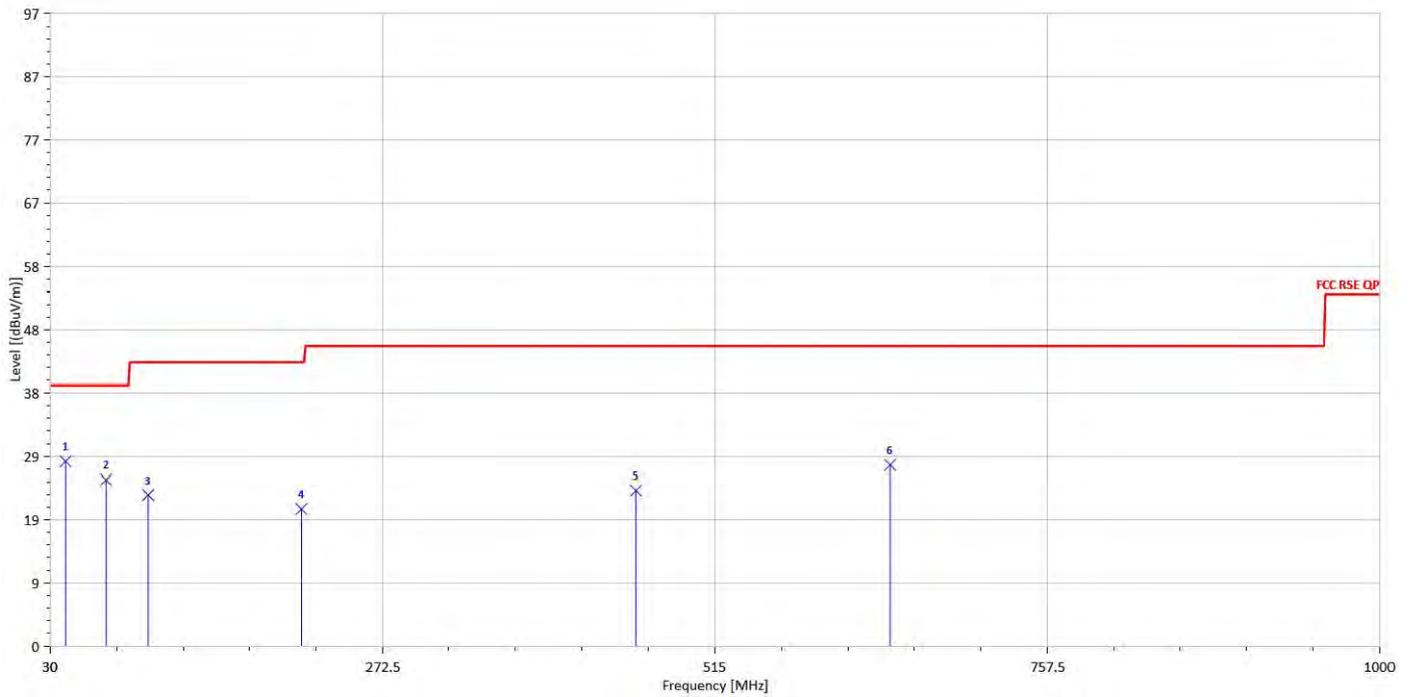
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802.11a, 5725~5850 MHz

Operation Mode :	802.11a	Test Date :	2016/7/18
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx Ch Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
41.64	S	Peak	42.25	-13.95	28.30	40	-11.70
70.74	S	Peak	47.22	-21.70	25.52	40	-14.48
101.78	S	Peak	40.74	-17.52	23.22	43.5	-20.28
213.33	S	Peak	38.19	-17.13	21.06	43.5	-22.44
457.77	S	Peak	32.01	-8.11	23.90	46	-22.10
643.04	S	Peak	32.85	-5.09	27.75	46	-18.25

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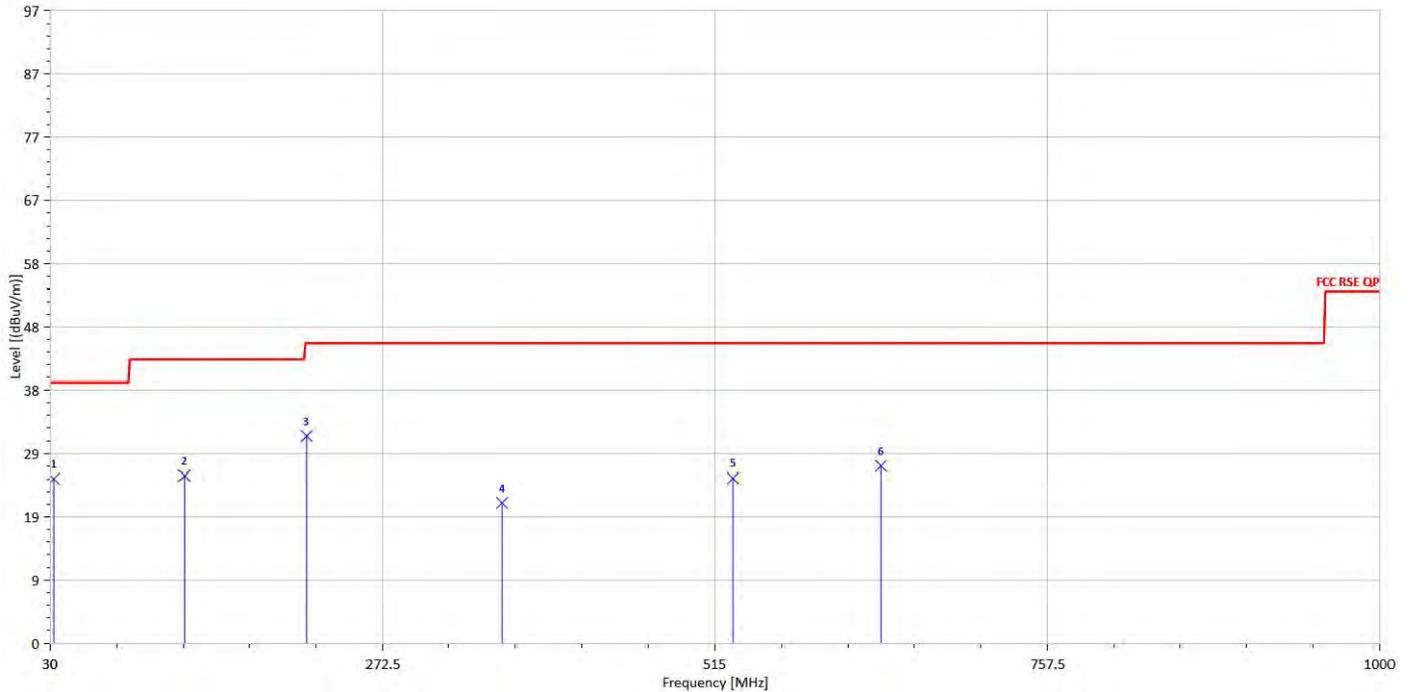
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Operation Mode : 802.11a Test Date : 2016/7/18
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
32.91	S	Peak	33.99	-8.75	25.24	40	-14.76
127.97	S	Peak	41.34	-15.62	25.72	43.5	-17.78
217.21	S	Peak	48.94	-17.17	31.77	46	-14.23
359.80	S	Peak	32.76	-11.20	21.56	46	-24.44
528.58	S	Peak	32.76	-7.42	25.34	46	-20.66
636.25	S	Peak	32.42	-5.25	27.18	46	-18.82

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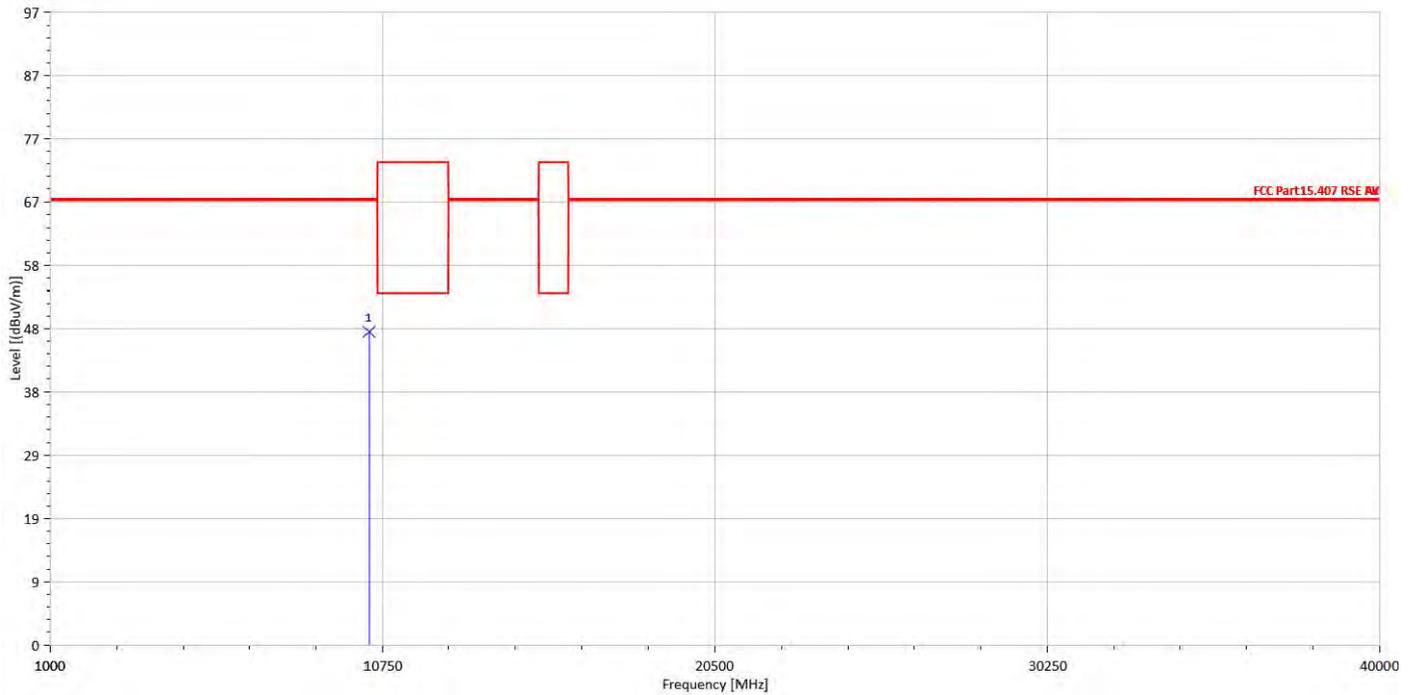
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Above 1GHz Worst-Case Data:

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

Operation Mode :	802.11a	Test Date :	2016/7/18
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx Ch Low	Test Engineer :	Pony
EUT Pol. :	H	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
10360.00	H	Peak	30.41	17.62	48.02	68.3	-20.28

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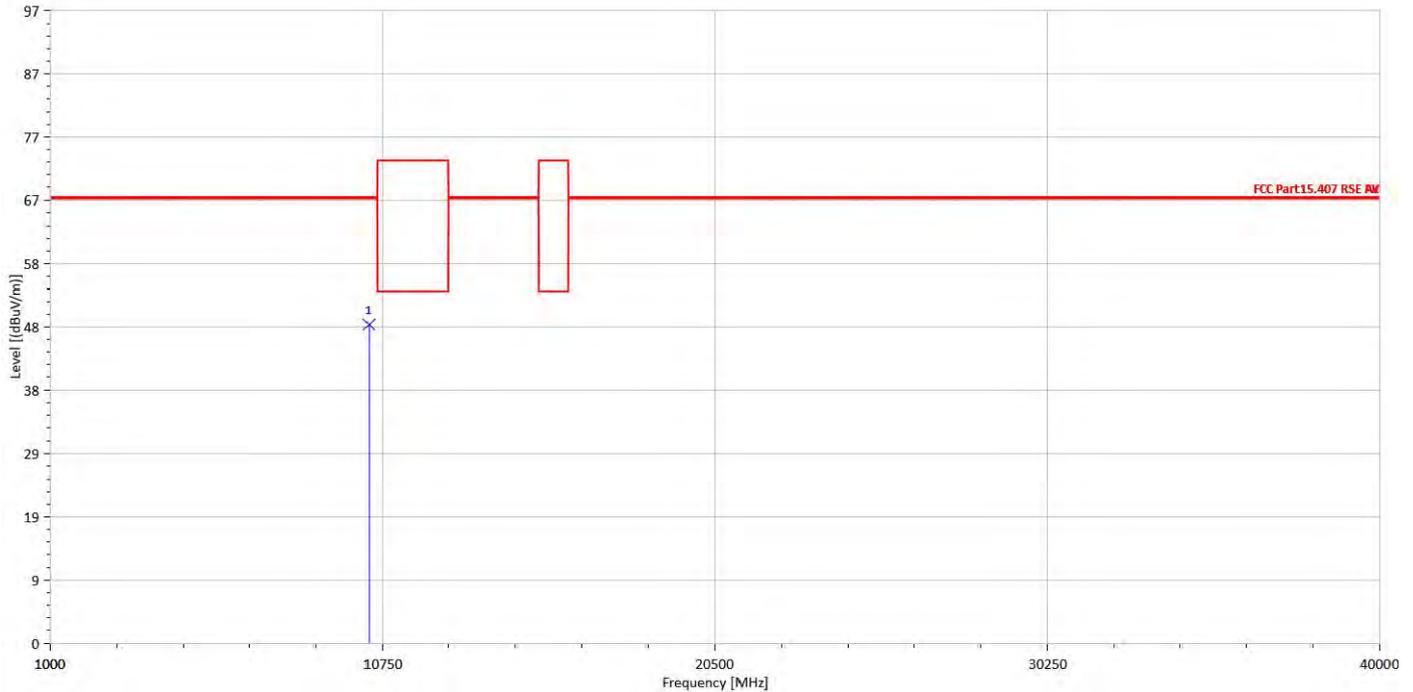
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Operation Mode : 802.11a Test Date : 2016/7/18
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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
10360.00	H	Peak	31.26	17.62	48.88	68.3	-19.42

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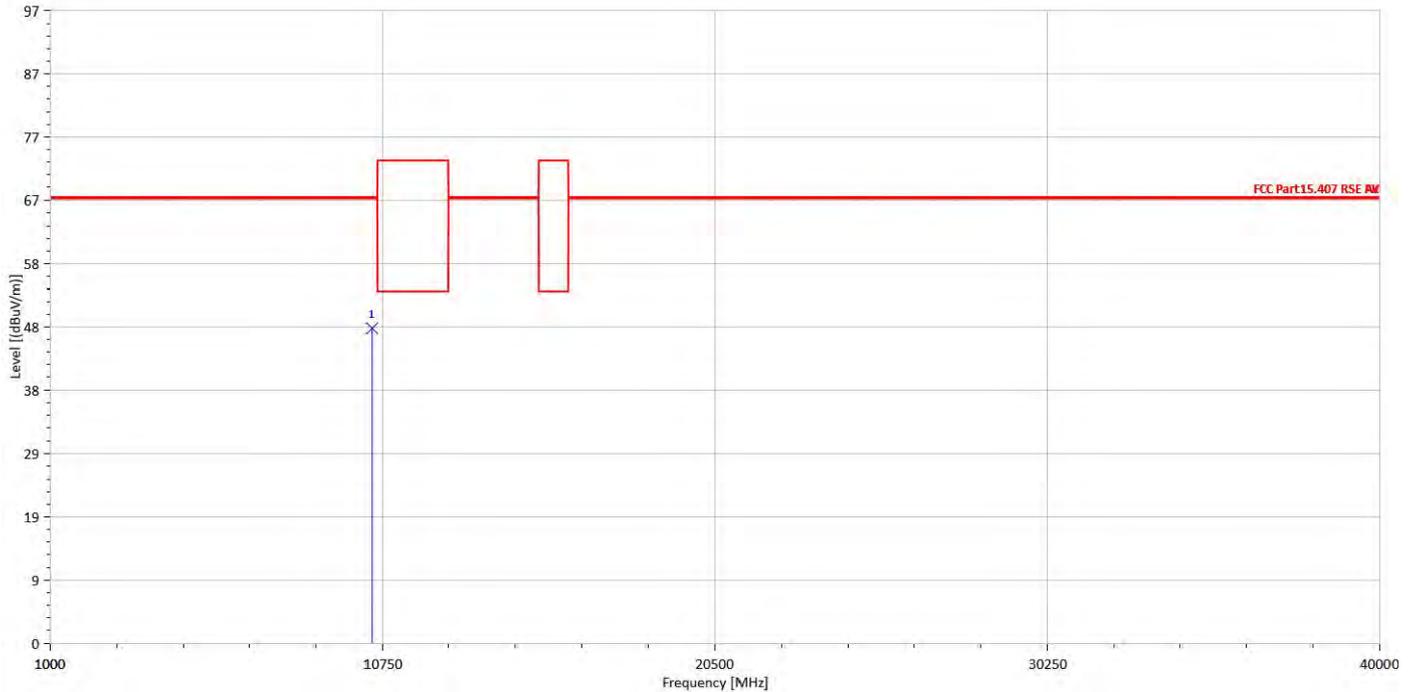
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Operation Mode : 802.11a Test Date : 2016/7/18
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	H	Peak	30.64	17.65	48.29	68.3	-20.01

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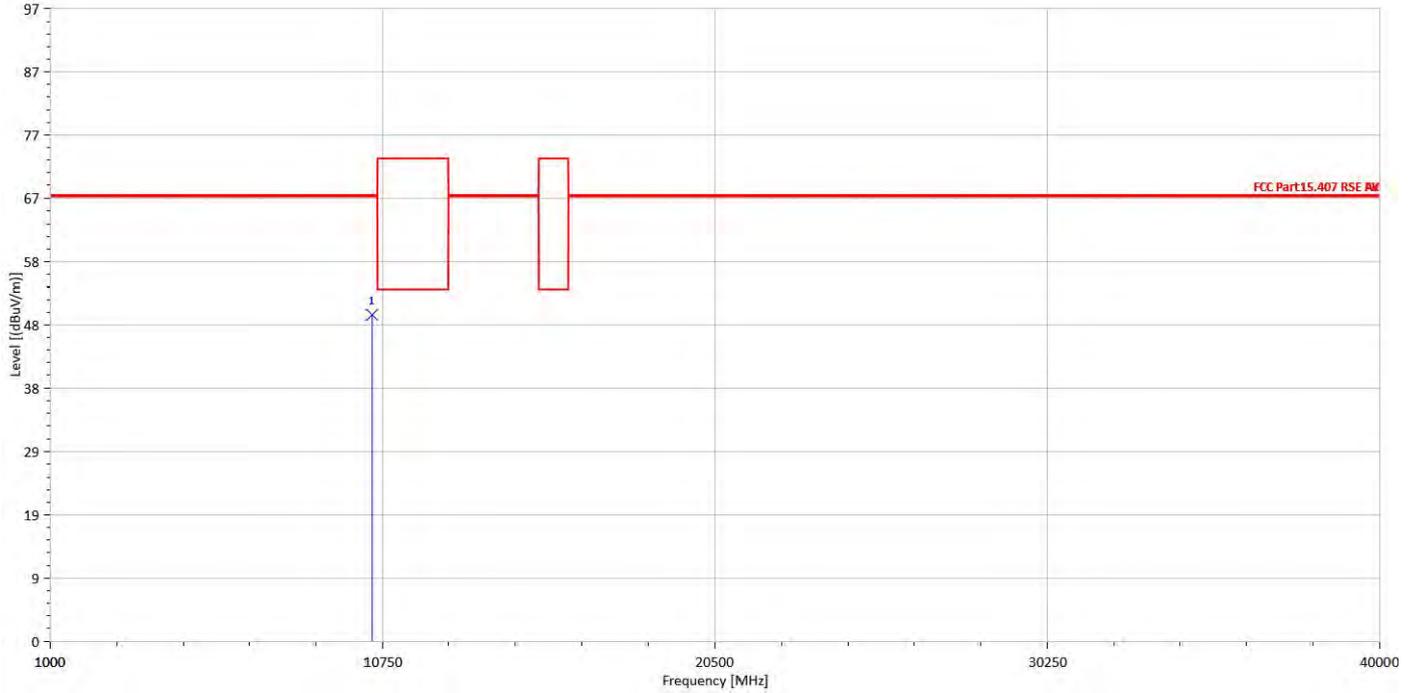
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Operation Mode : 802.11a Test Date : 2016/7/18
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10440.00	H	Peak	32.43	17.65	50.08	68.3	-18.22

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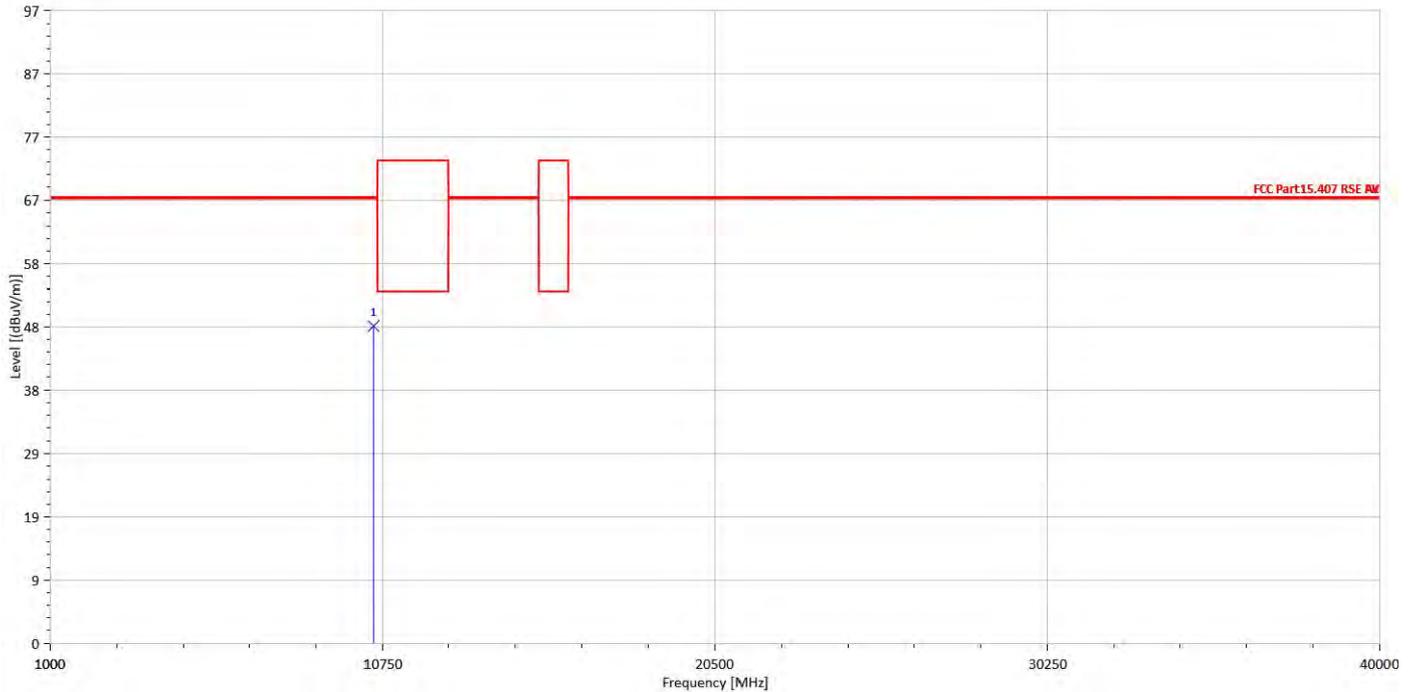
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Operation Mode : 802.11a Test Date : 2016/7/18
 Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10480.00	H	Peak	30.64	18.00	48.64	68.3	-19.66

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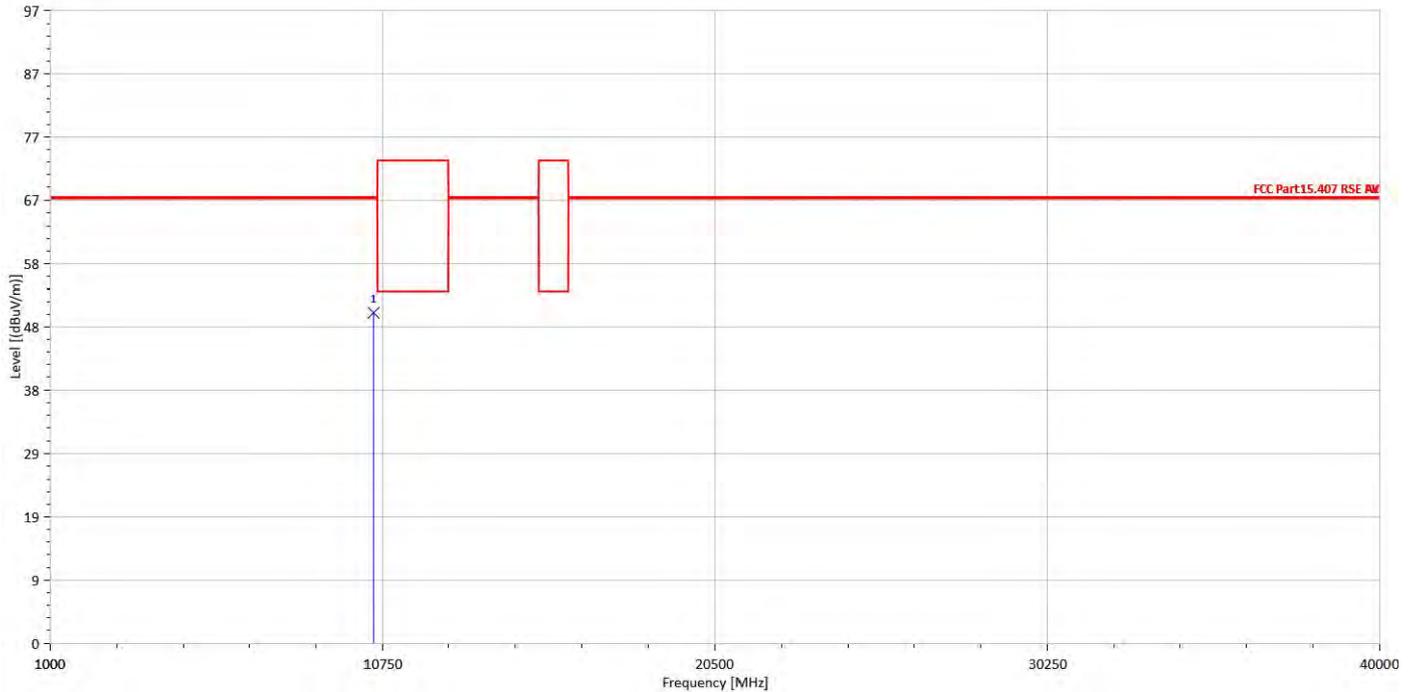
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Operation Mode : 802.11a Test Date : 2016/7/18
 Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10480.00	H	Peak	32.71	18.00	50.71	68.3	-17.59

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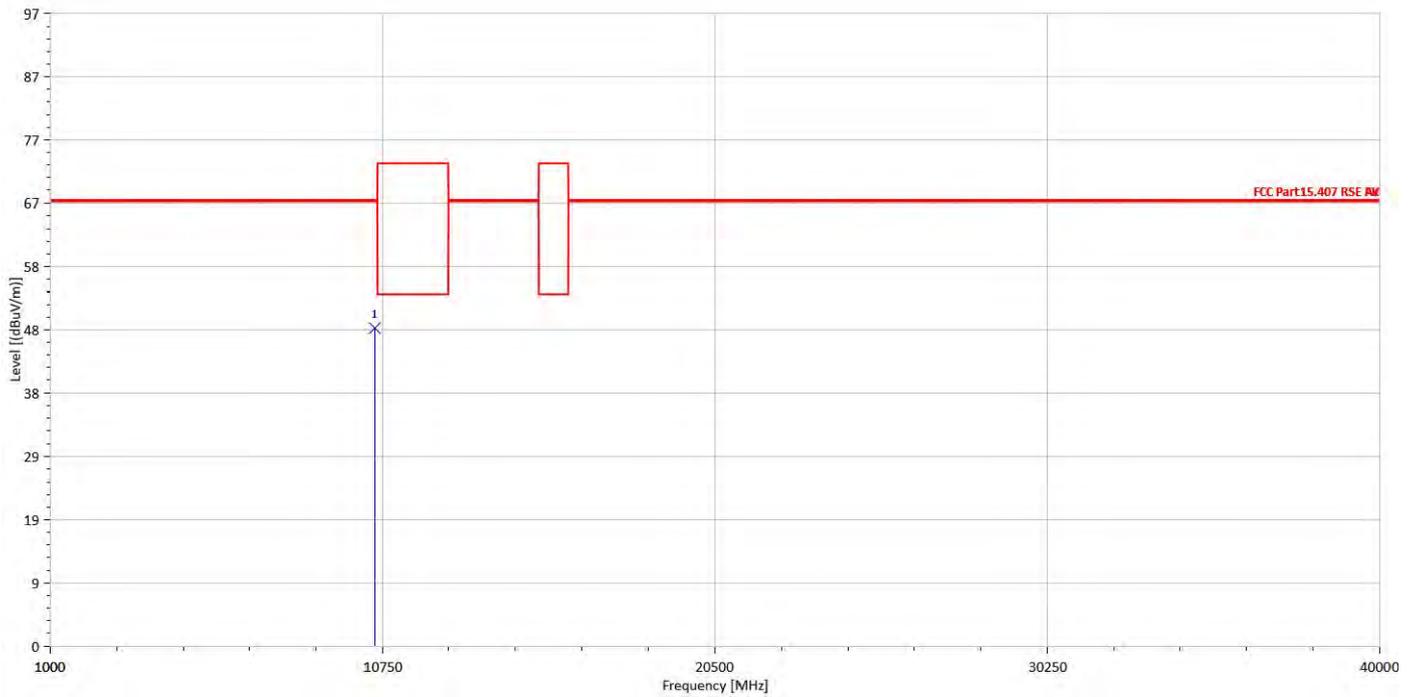
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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode :	802.11a	Test Date :	2016/7/18
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx Ch Low	Test Engineer :	Pony
EUT Pol. :	H	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	31.39	17.39	48.78	68.3	-19.52

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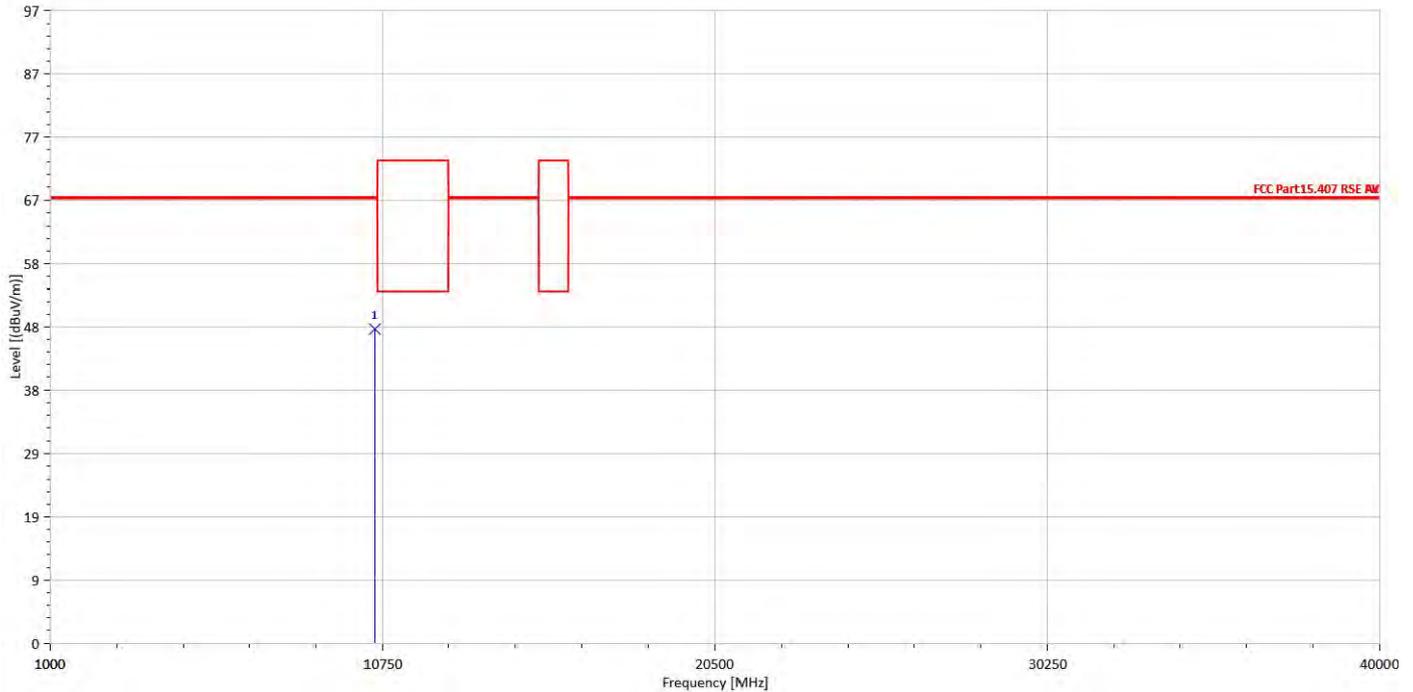
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Operation Mode : 802.11a Test Date : 2016/7/18
 Fundamental Frequency : 5260 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10520.00	H	Peak	30.80	17.39	48.18	68.3	-20.12

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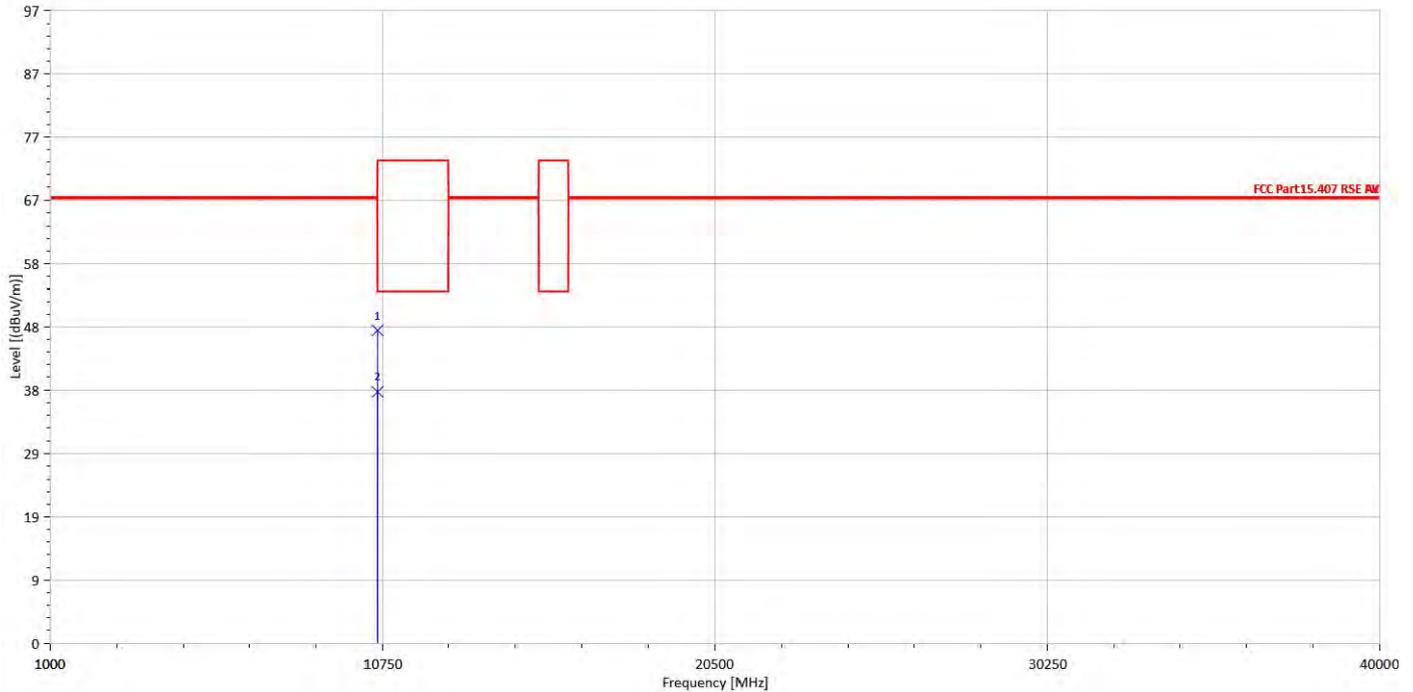
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Operation Mode : 802.11a Test Date : 2016/7/18
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10600.00	H	Peak	30.57	17.41	47.97	74	-26.03
10600.00	H	Average	21.20	17.41	38.61	54	-15.39

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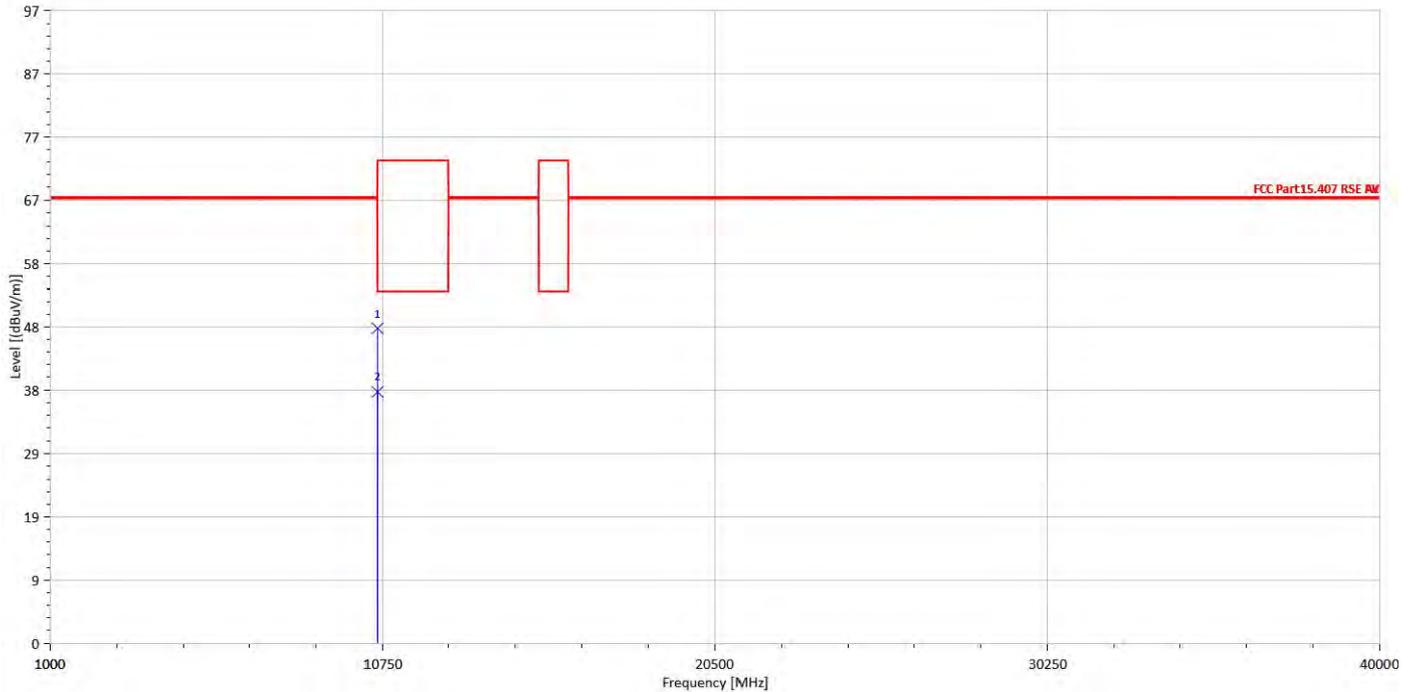
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Operation Mode : 802.11a Test Date : 2016/7/18
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10600.00	H	Peak	30.90	17.41	48.30	74	-25.70
10600.00	H	Average	21.19	17.41	38.60	54	-15.40

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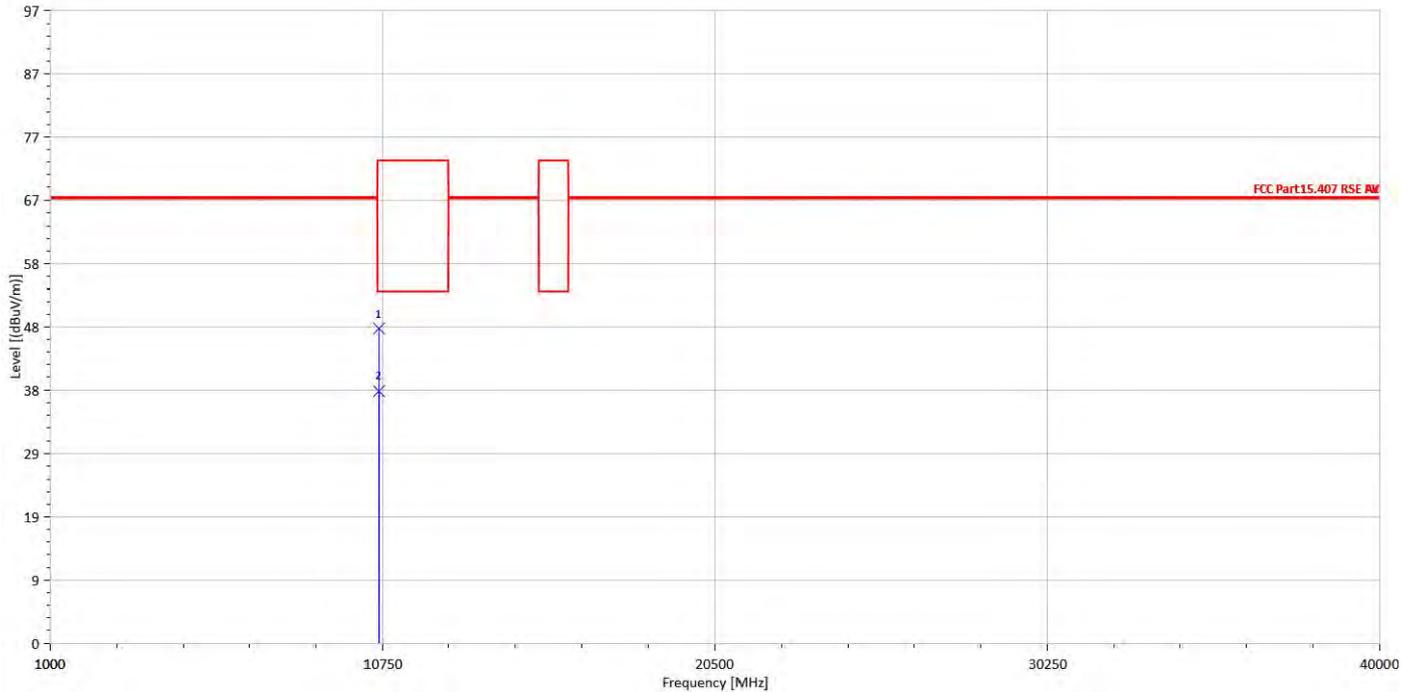
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Operation Mode : 802.11a Test Date : 2016/7/18
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10640.00	H	Peak	30.72	17.56	48.28	74	-25.72
10640.00	H	Average	21.15	17.56	38.71	54	-15.29

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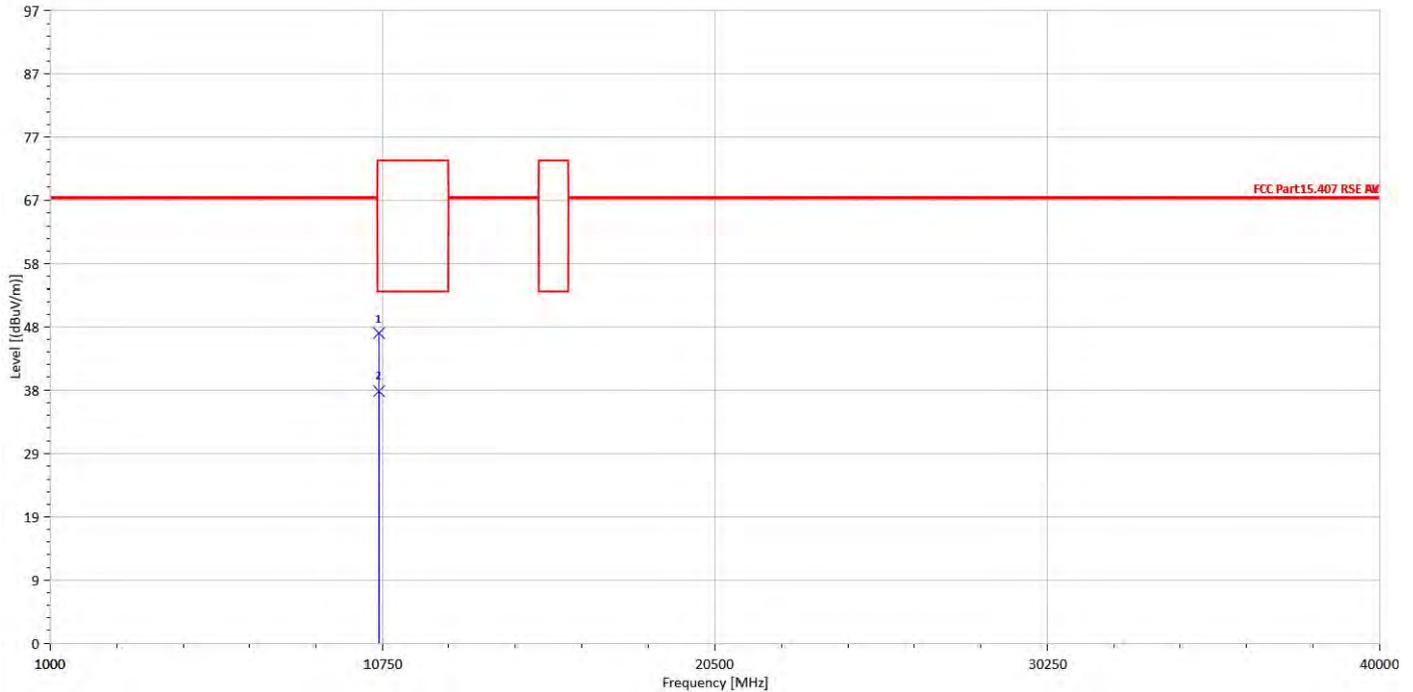
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Operation Mode : 802.11a Test Date : 2016/7/18
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10640.00	H	Peak	30.00	17.56	47.56	74	-26.44
10640.00	H	Average	21.16	17.56	38.72	54	-15.28

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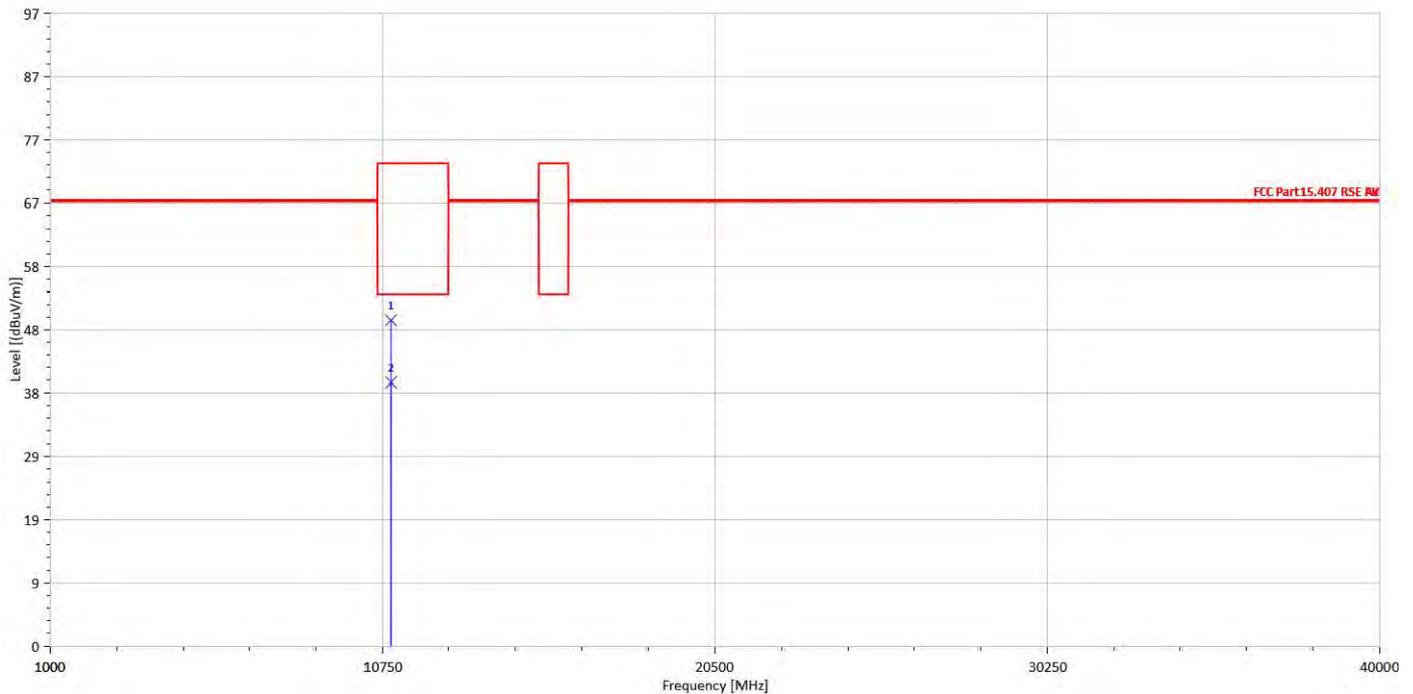
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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode :	802.11a	Test Date :	2016/7/18
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx Ch Low	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11000.00	H	Peak	30.89	19.11	49.99	74	-24.01
11000.00	H	Average	21.33	19.11	40.44	54	-13.56

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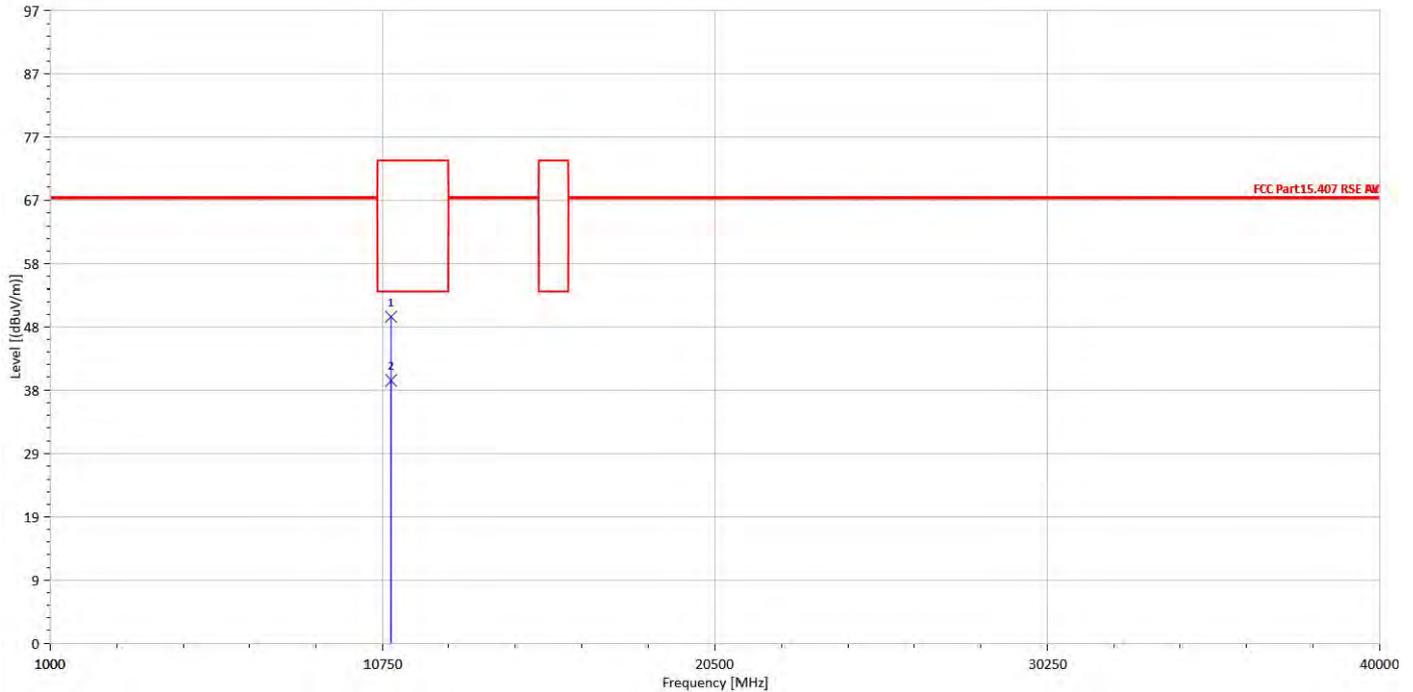
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Operation Mode : 802.11a Test Date : 2016/7/18
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	30.99	19.11	50.09	74	-23.91
11000.00	H	Average	21.20	19.11	40.31	54	-13.69

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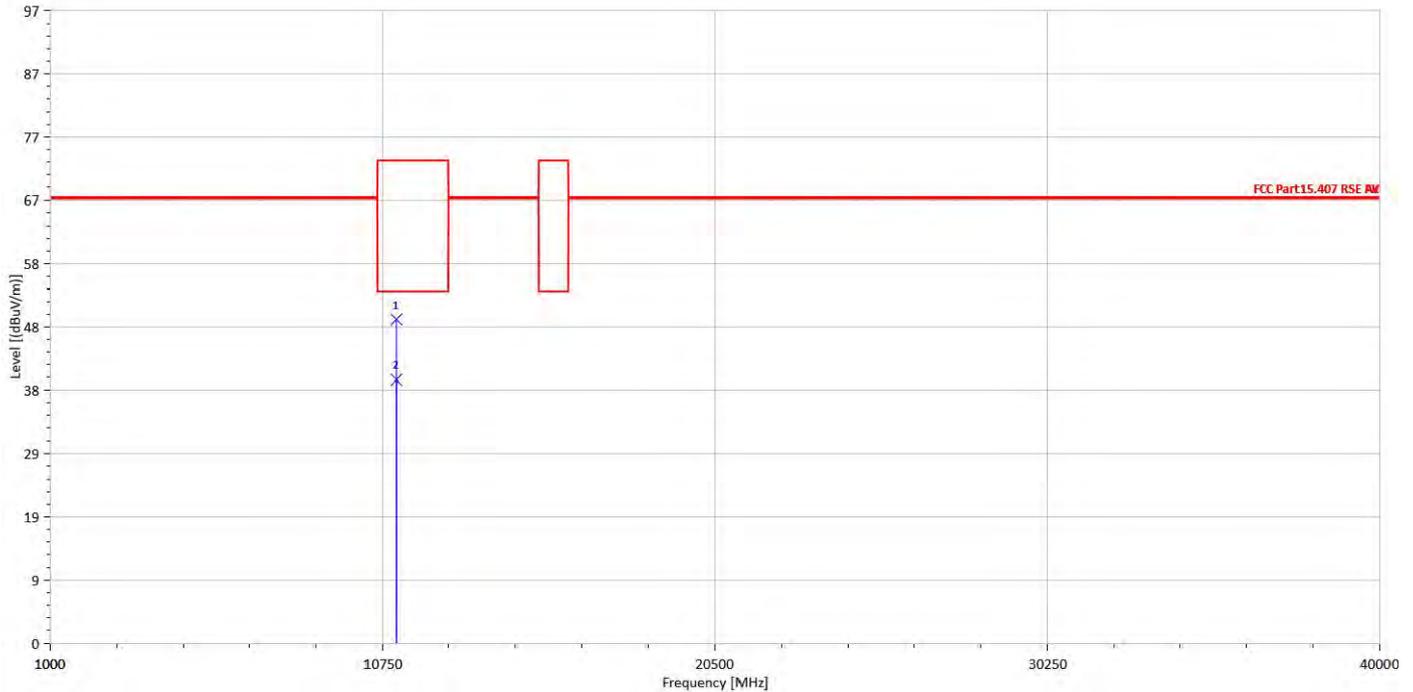
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Operation Mode : 802.11a Test Date : 2016/7/18
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	H	Peak	30.42	19.26	49.68	74	-24.32
11160.00	H	Average	21.14	19.26	40.40	54	-13.60

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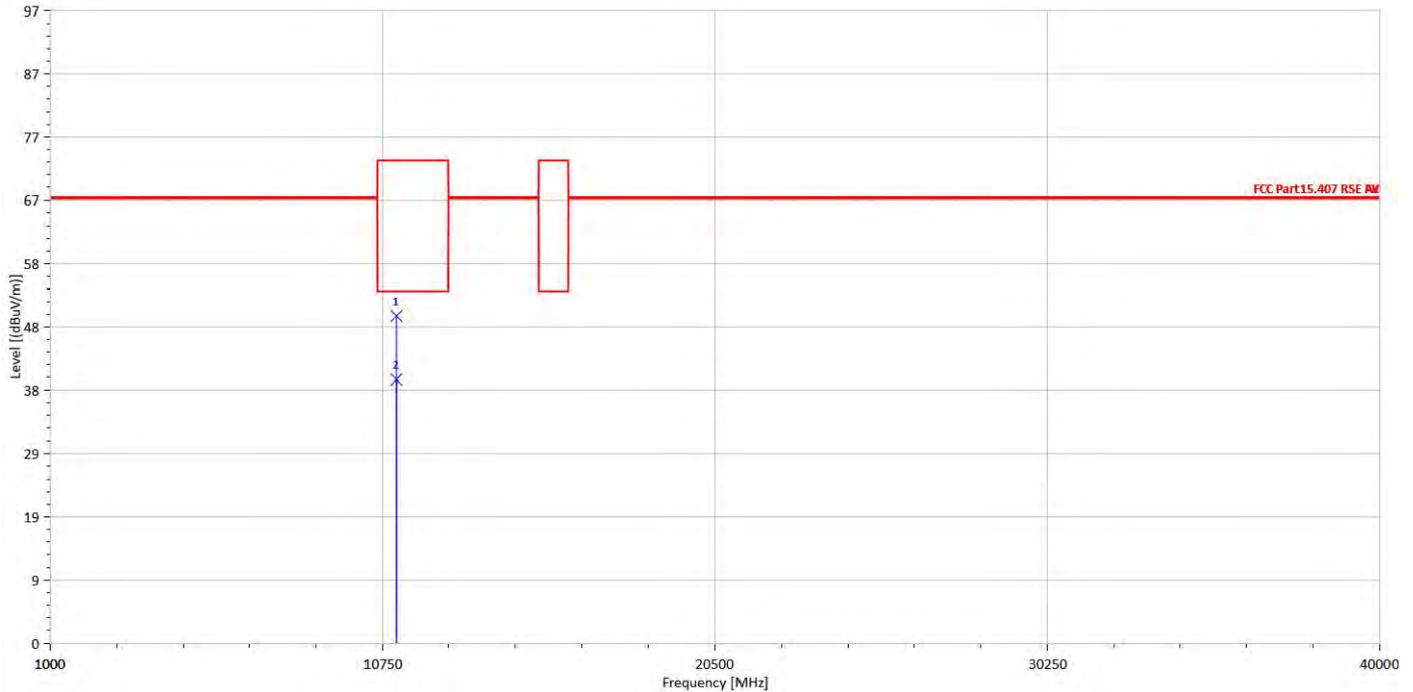
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Operation Mode : 802.11a Test Date : 2016/7/18
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	H	Peak	30.95	19.26	50.21	74	-23.79
11160.00	H	Average	21.17	19.26	40.43	54	-13.57

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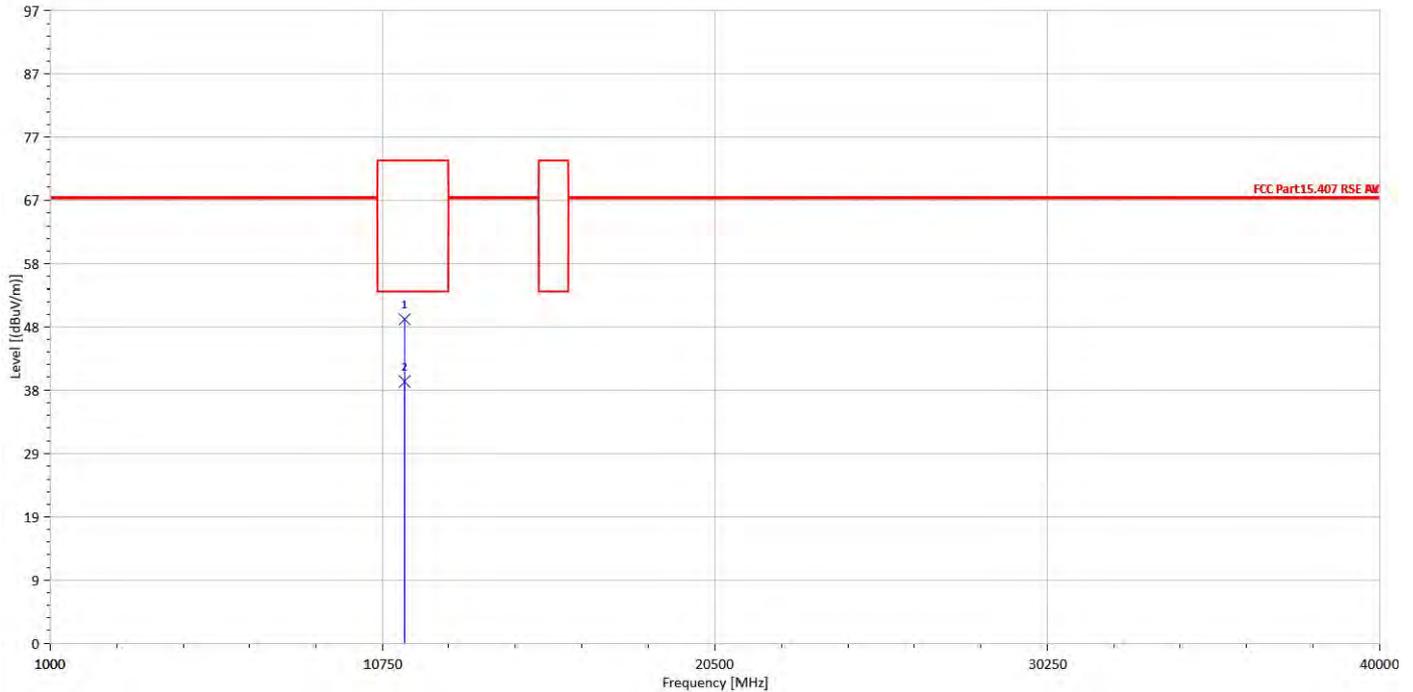
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Operation Mode : 802.11a Test Date : 2016/7/18
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11400.00	H	Peak	30.93	18.78	49.70	74	-24.30
11400.00	H	Average	21.36	18.78	40.14	54	-13.86

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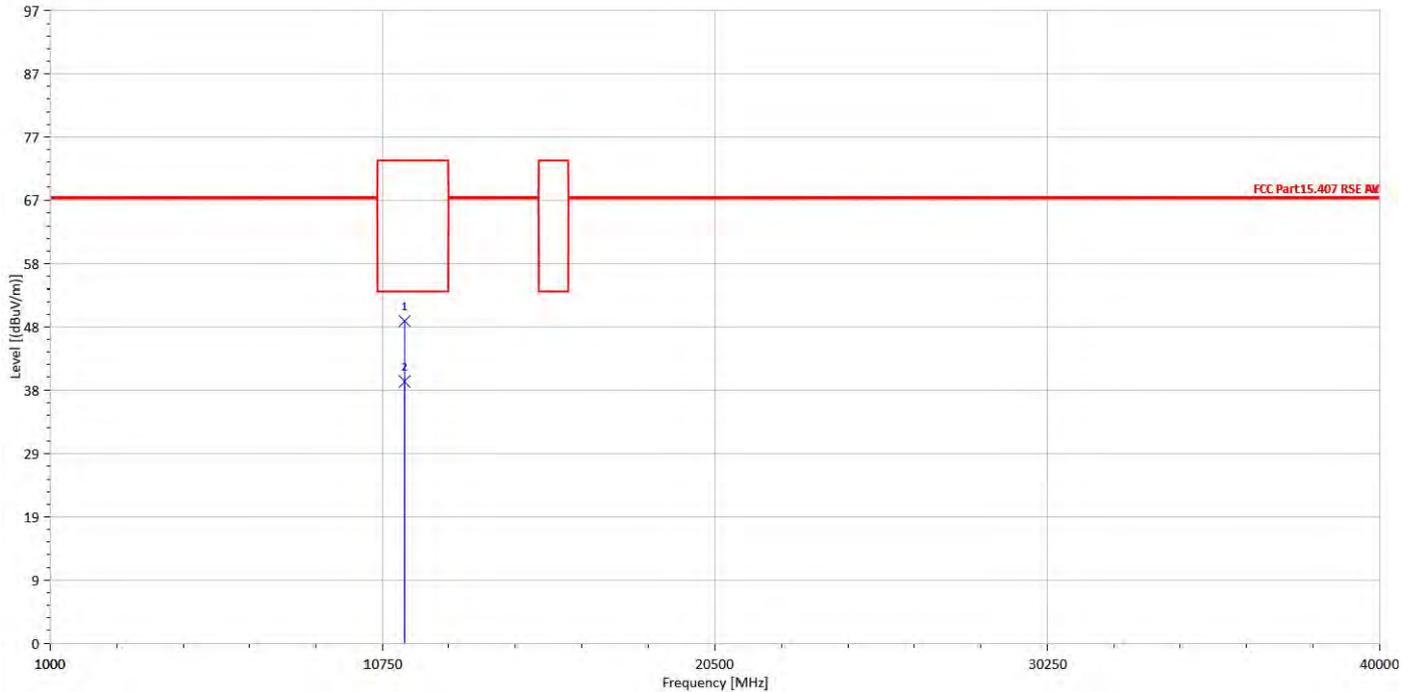
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 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	H	Peak	30.64	18.78	49.42	74	-24.58
11400.00	H	Average	21.36	18.78	40.14	54	-13.86

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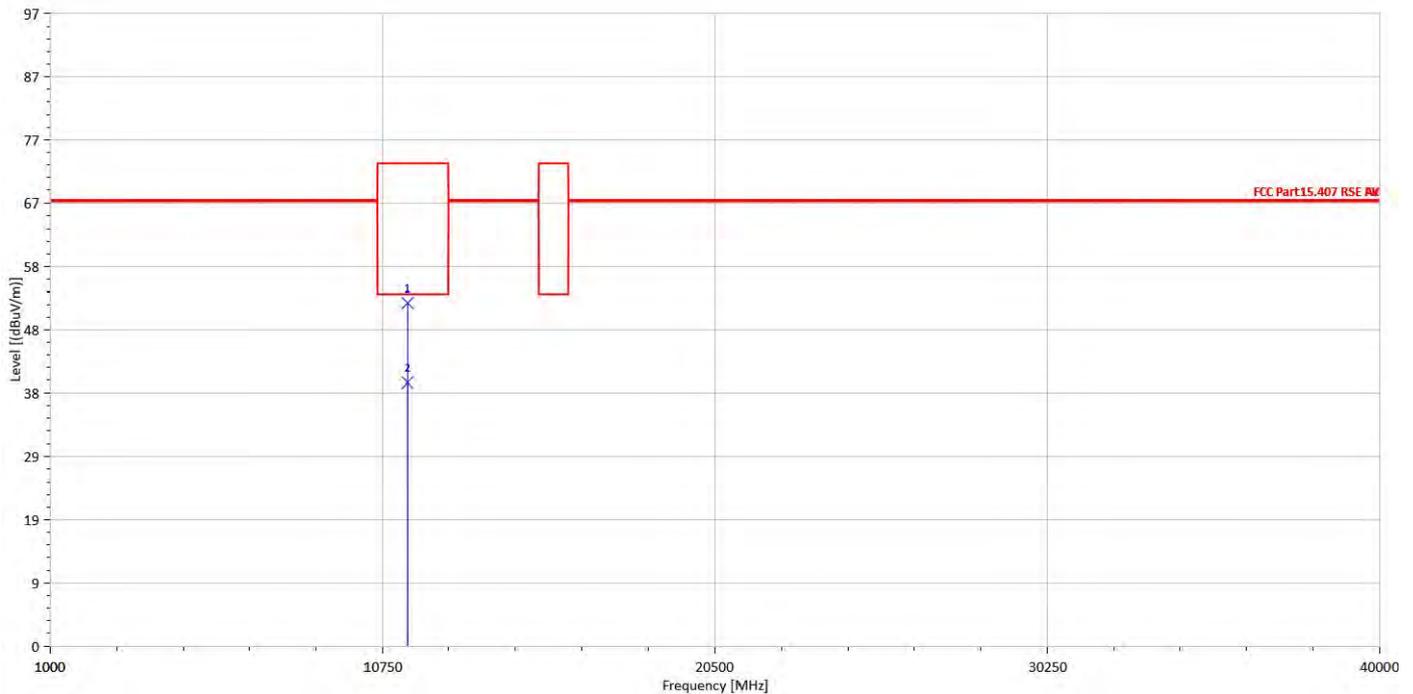
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Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode :	802.11a	Test Date :	2016/7/18
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx Ch Low	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	H	Peak	34.27	18.39	52.66	74	-21.34
11490.00	H	Average	22.02	18.39	40.41	54	-13.59

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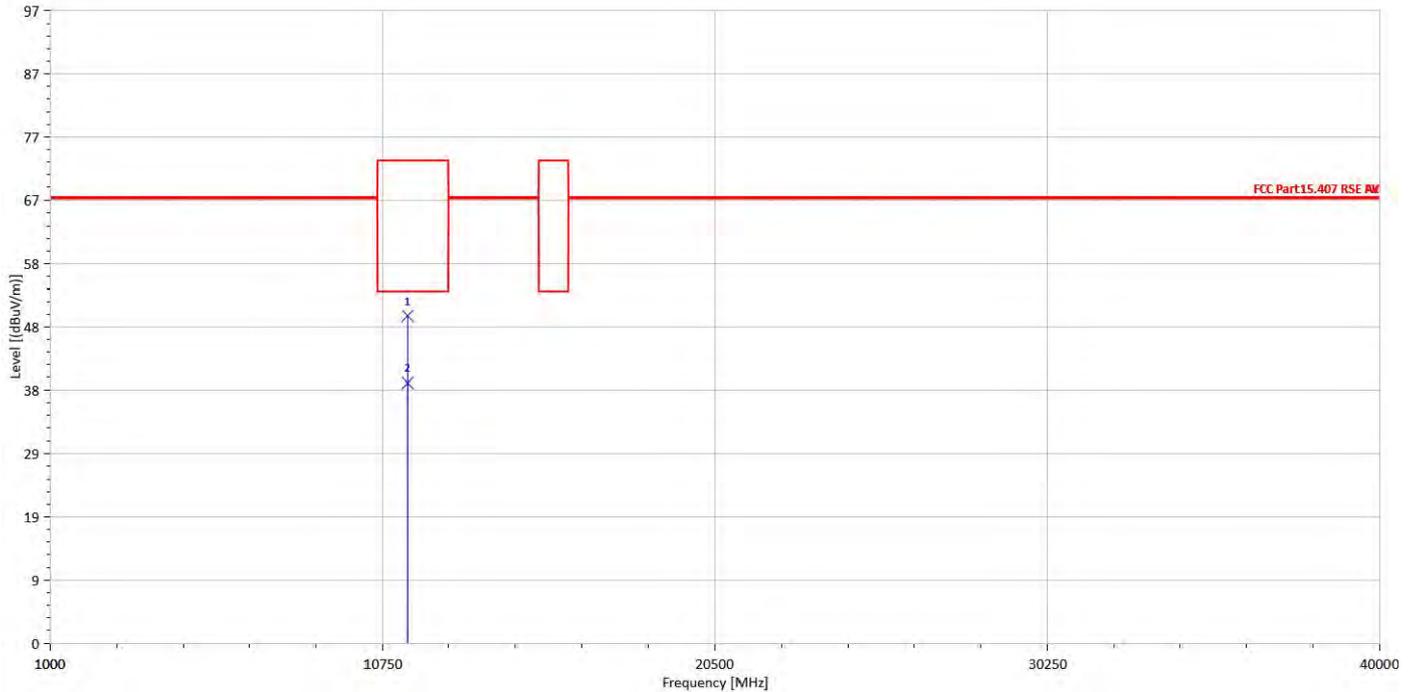
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Operation Mode : 802.11a Test Date : 2016/7/18
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	H	Peak	31.84	18.39	50.23	74	-23.77
11490.00	H	Average	21.52	18.39	39.91	54	-14.09

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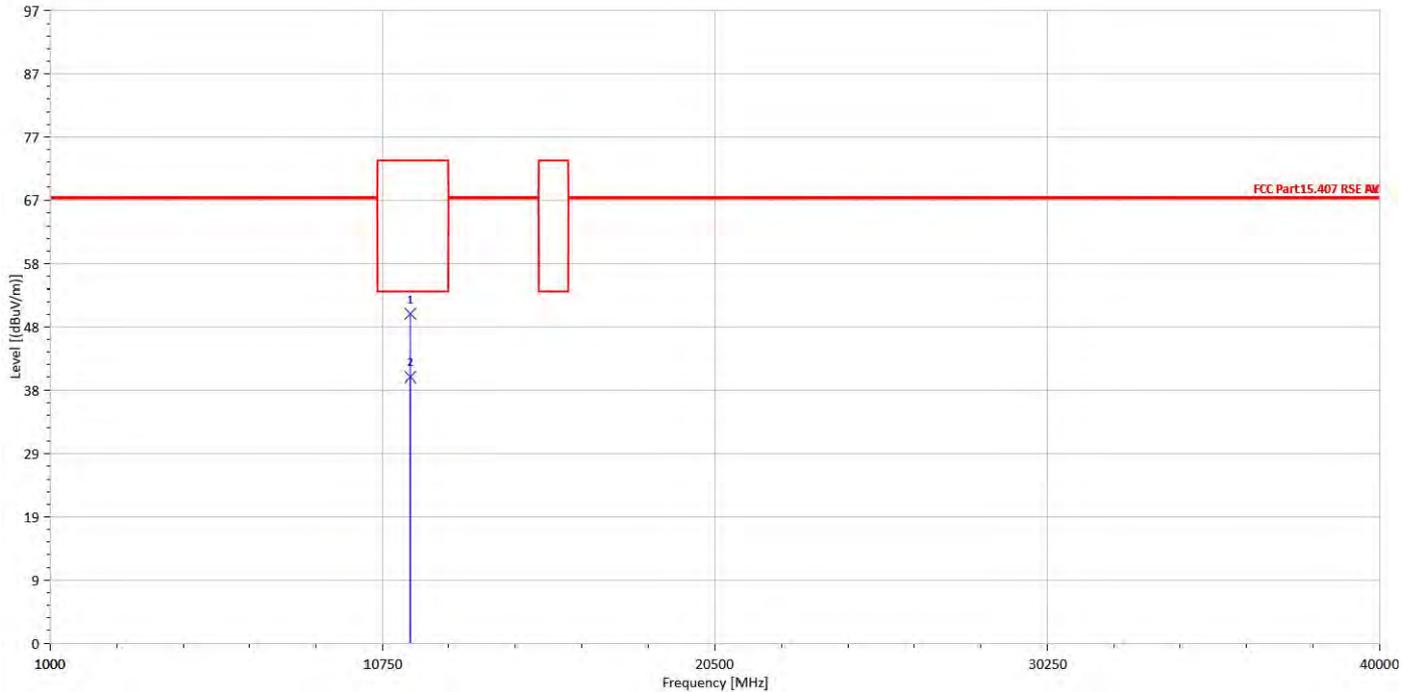
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Operation Mode : 802.11a Test Date : 2016/7/18
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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	31.18	19.38	50.56	74	-23.44
11570.00	H	Average	21.42	19.38	40.80	54	-13.20

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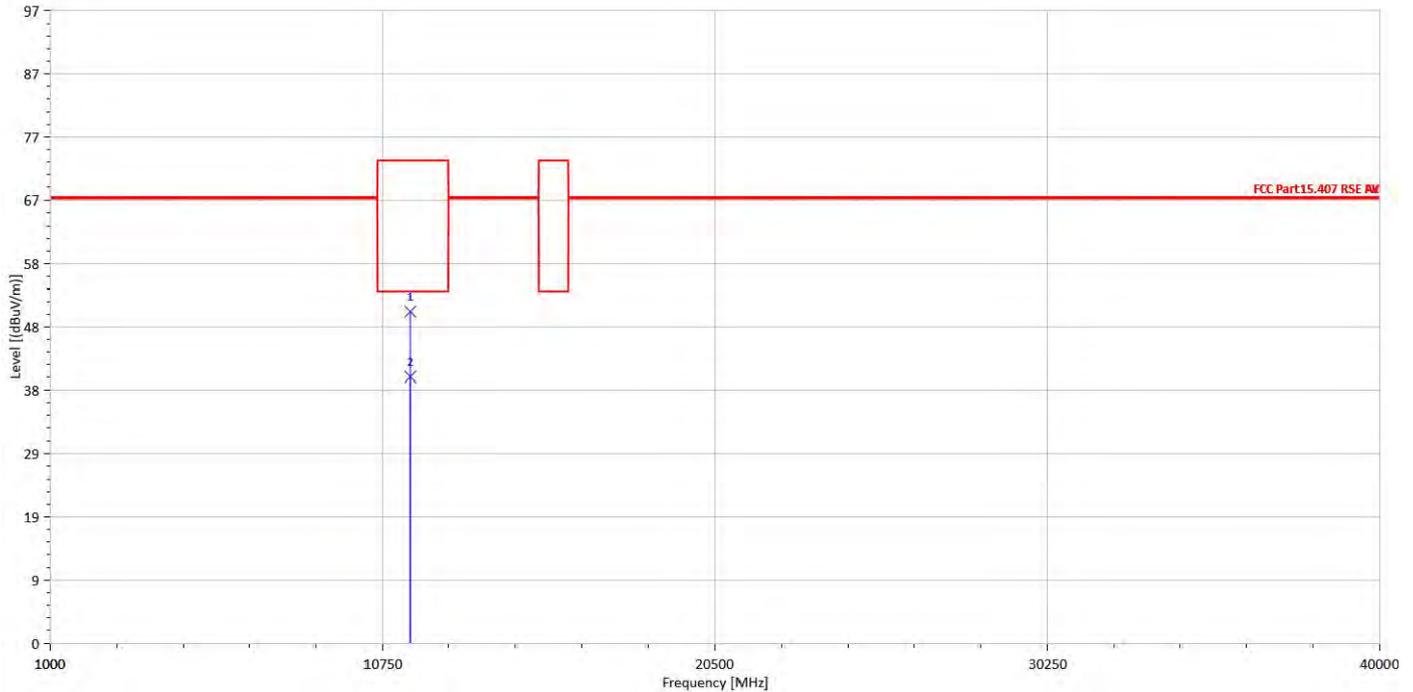
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Operation Mode : 802.11a Test Date : 2016/7/18
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11570.00	H	Peak	31.50	19.38	50.88	74	-23.12
11570.00	H	Average	21.45	19.38	40.83	54	-13.17

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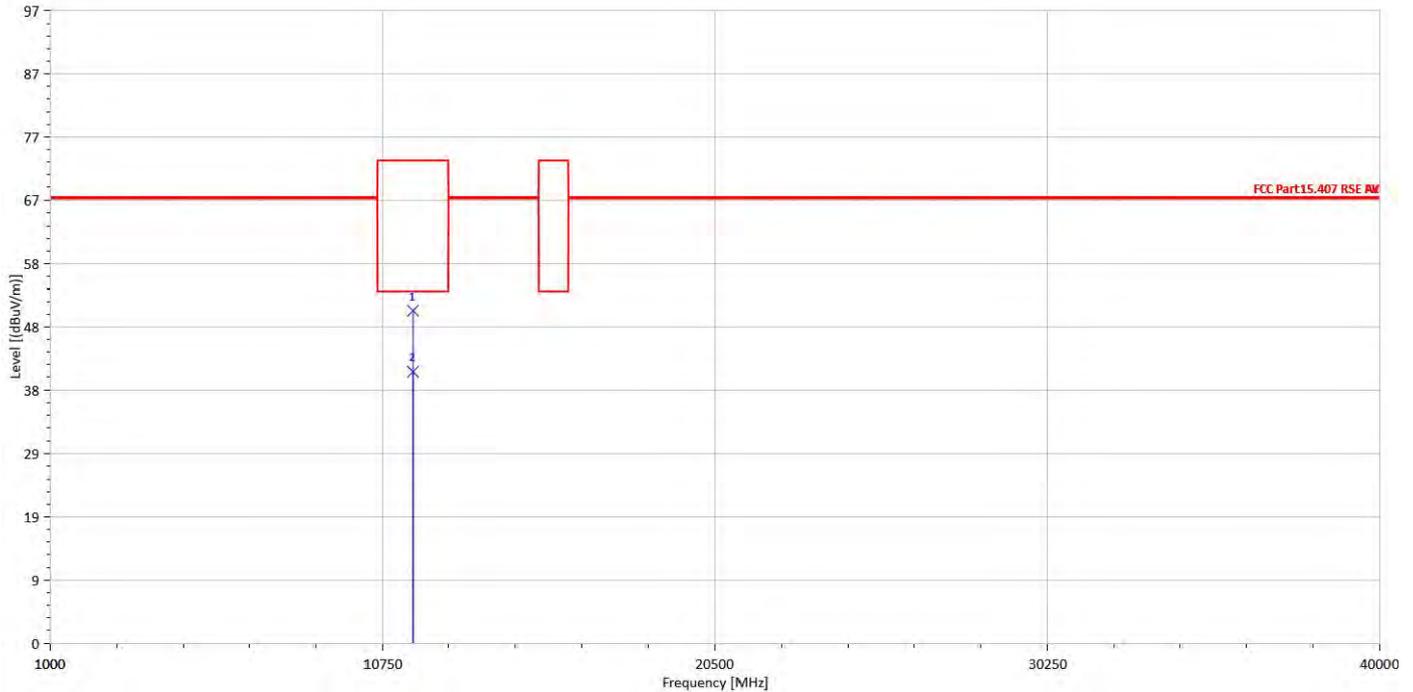
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Operation Mode : 802.11a Test Date : 2016/7/18
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11650.00	H	Peak	30.79	20.23	51.02	74	-22.98
11650.00	H	Average	21.35	20.23	41.58	54	-12.42

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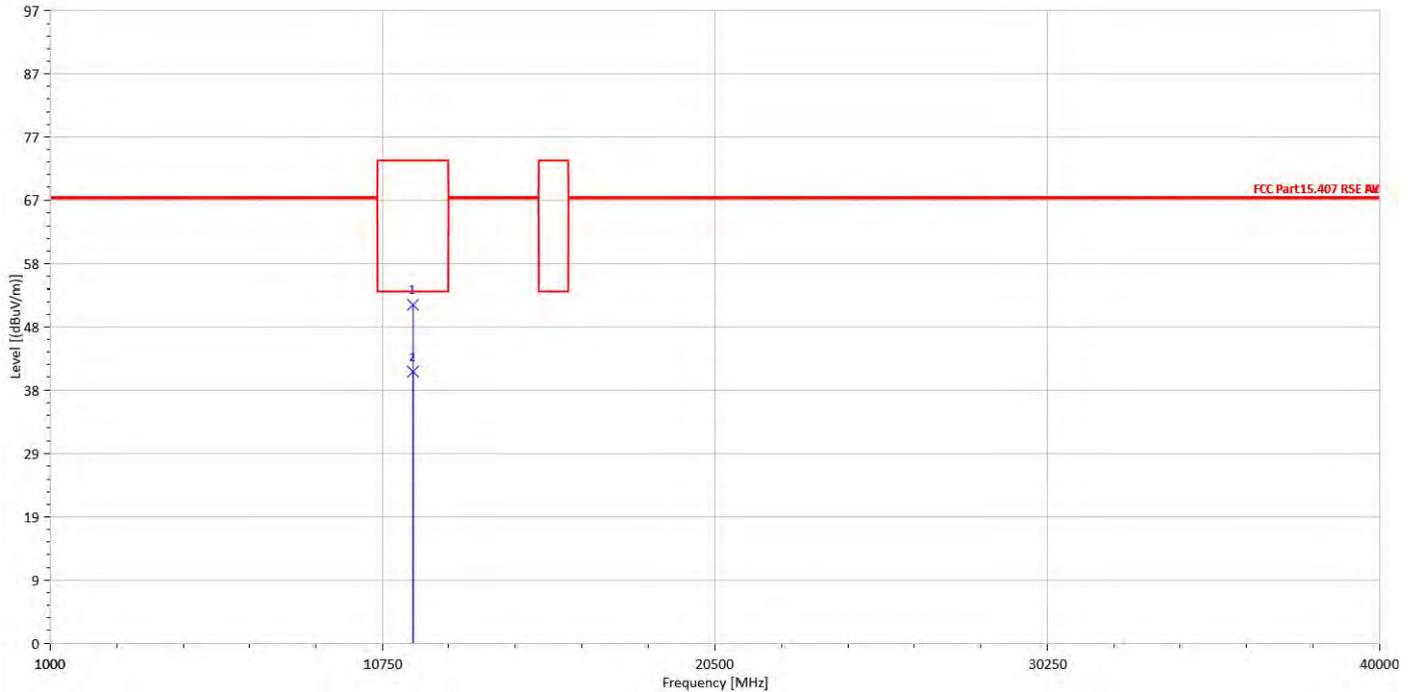
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 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
11650.00	H	Peak	31.71	20.23	51.94	74	-22.06
11650.00	H	Average	21.36	20.23	41.59	54	-12.41

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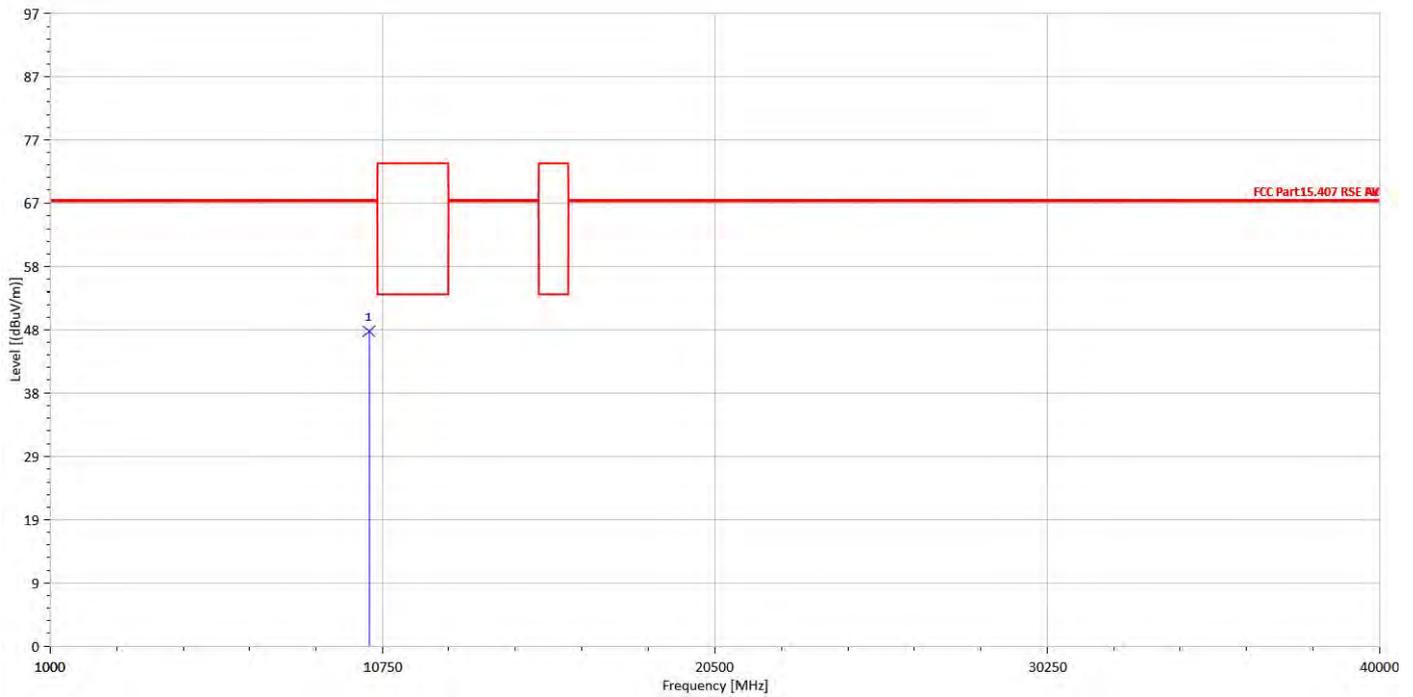
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode :	802.11n20	Test Date :	2016/7/18
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx Ch Low	Test Engineer :	Pony
EUT Pol. :	H	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	30.67	17.62	48.28	68.3	-20.02

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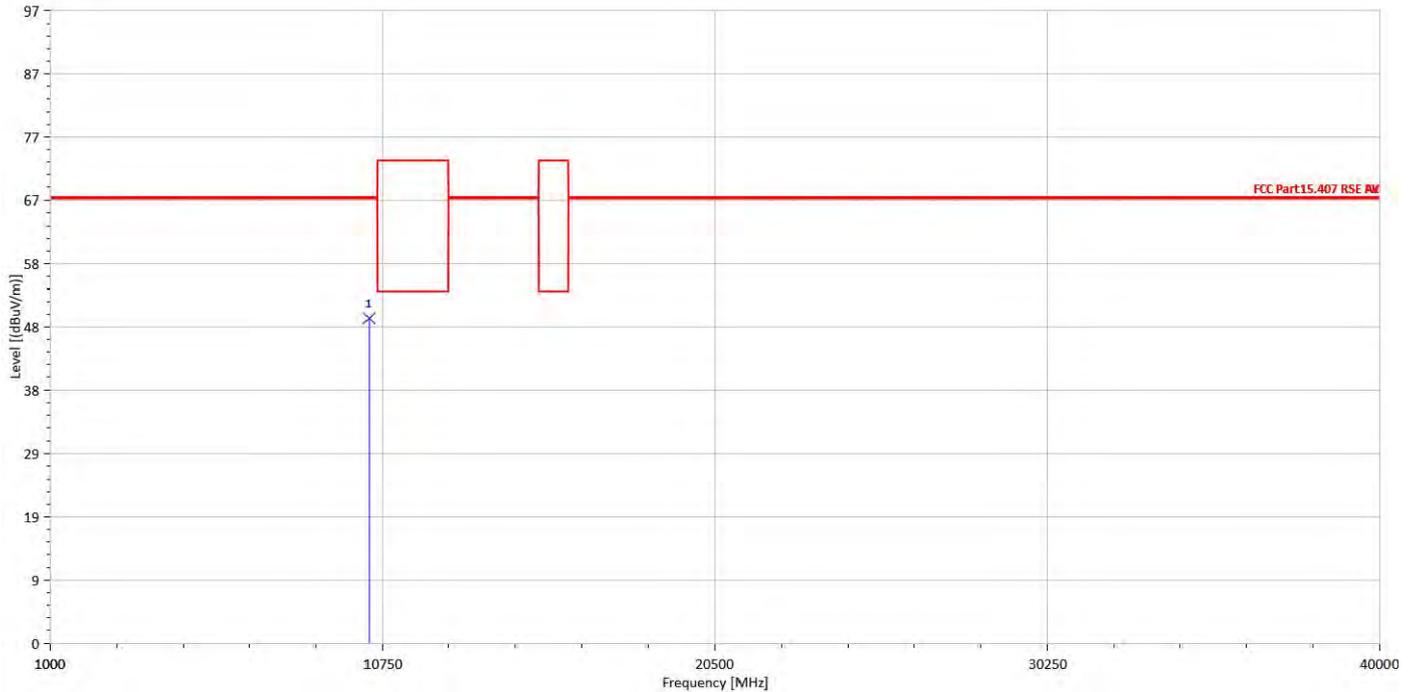
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Operation Mode : 802.11n20 Test Date : 2016/7/18
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	32.22	17.62	49.84	68.3	-18.46

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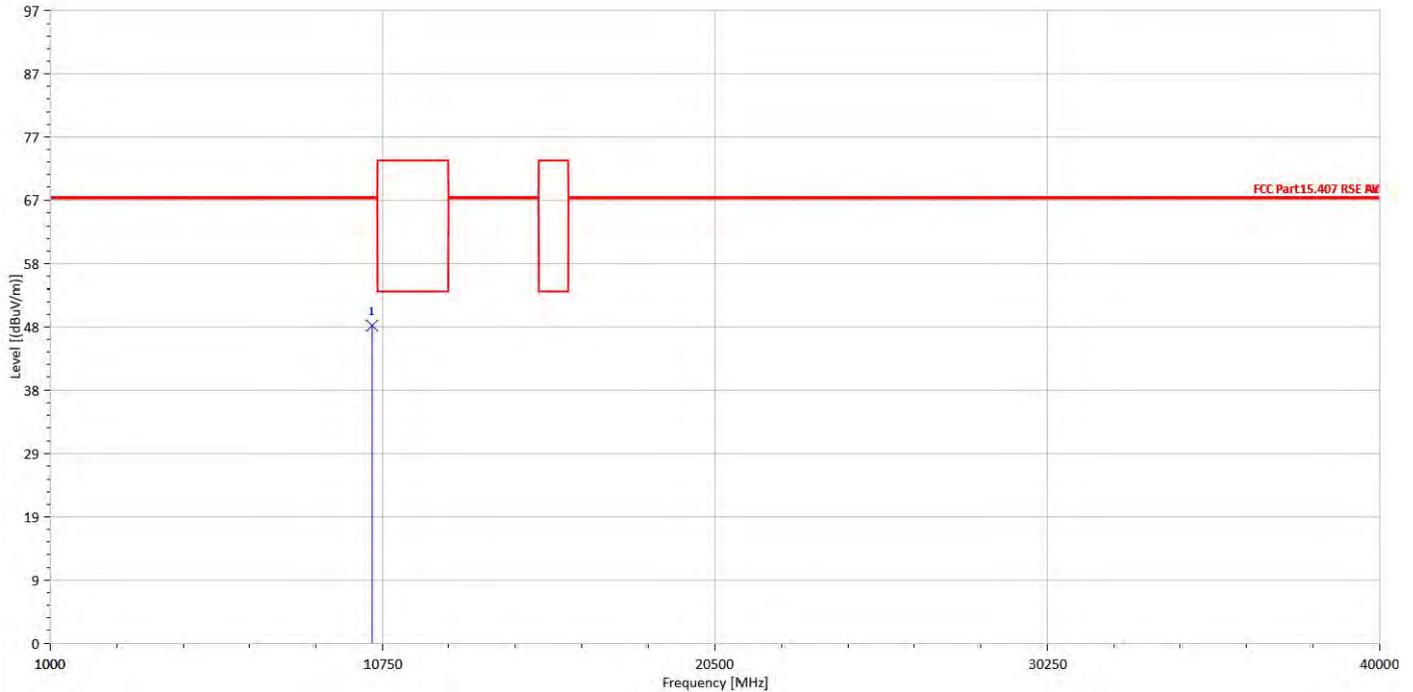
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Operation Mode : 802.11n20 Test Date : 2016/7/18
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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
10440.00	H	Peak	31.06	17.65	48.72	68.3	-19.58

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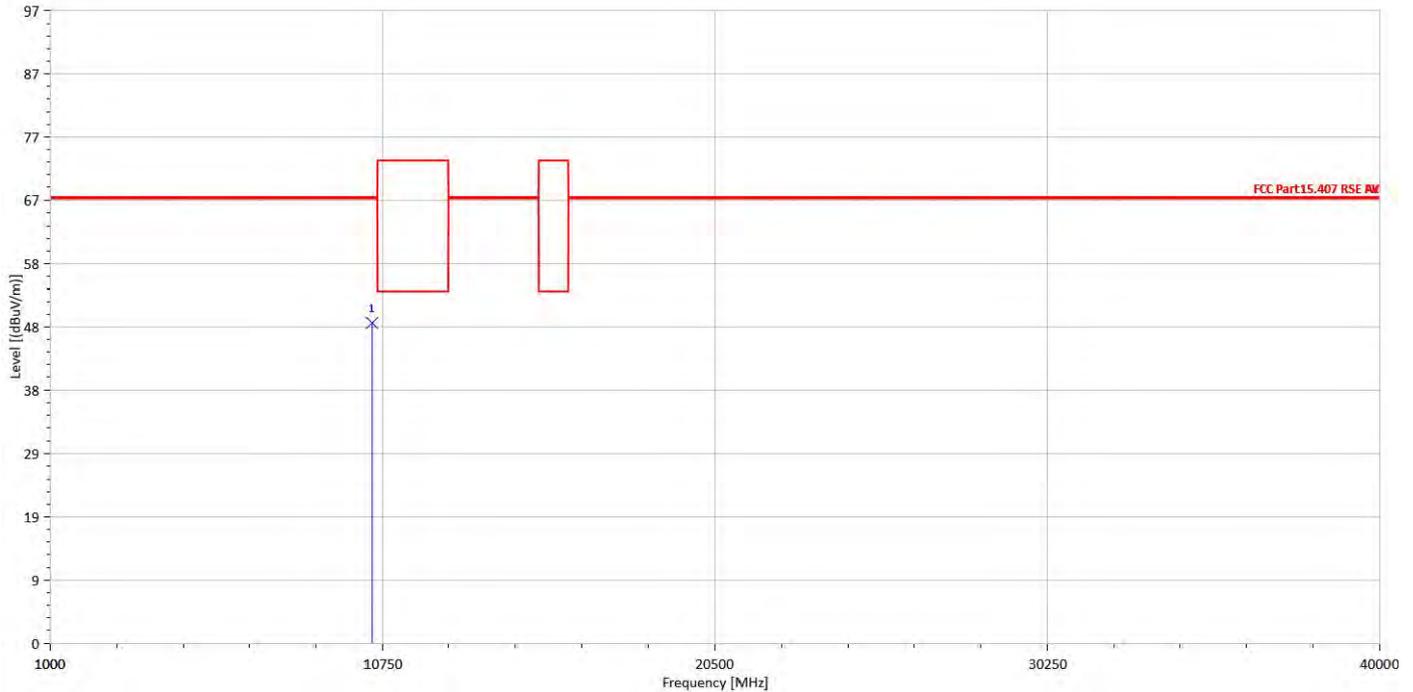
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Operation Mode : 802.11n20 Test Date : 2016/7/18
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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
10440.00	H	Peak	31.48	17.65	49.13	68.3	-19.17

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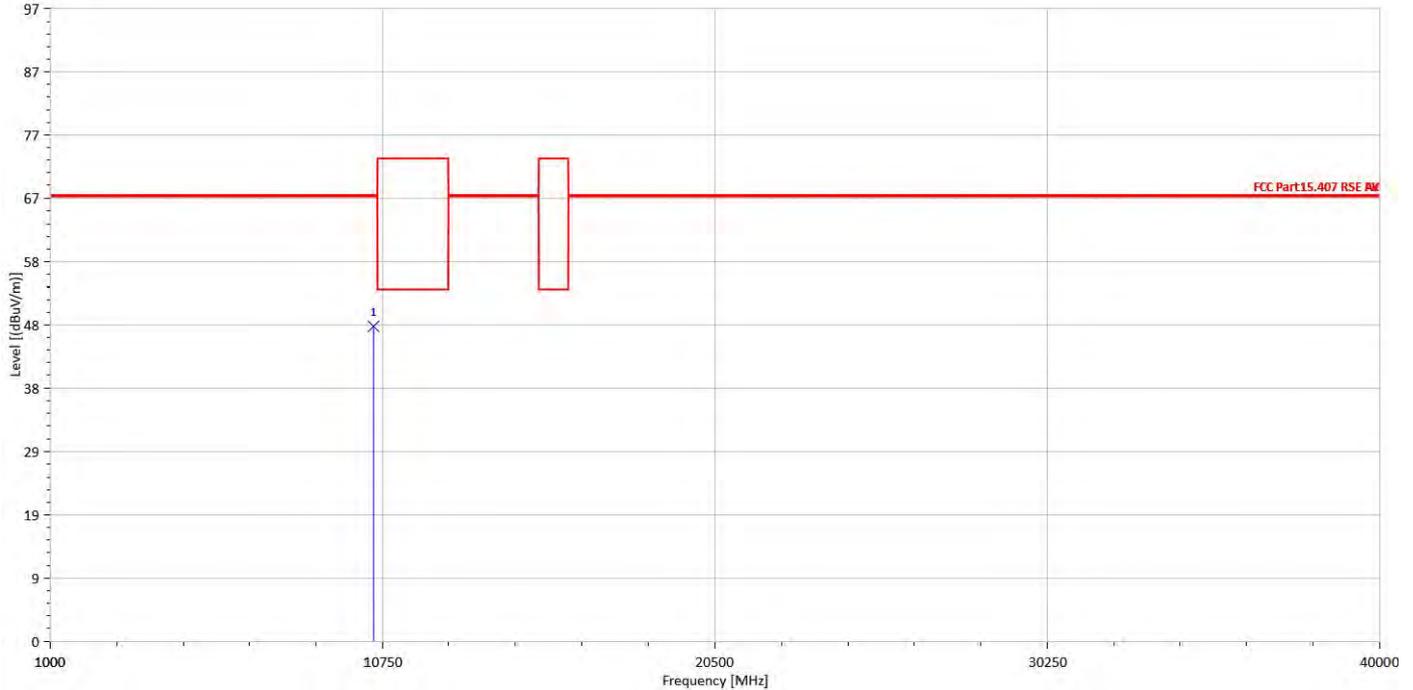
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Operation Mode : 802.11n20 Test Date : 2016/7/18
 Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10480.00	H	Peak	30.29	18.00	48.29	68.3	-20.01

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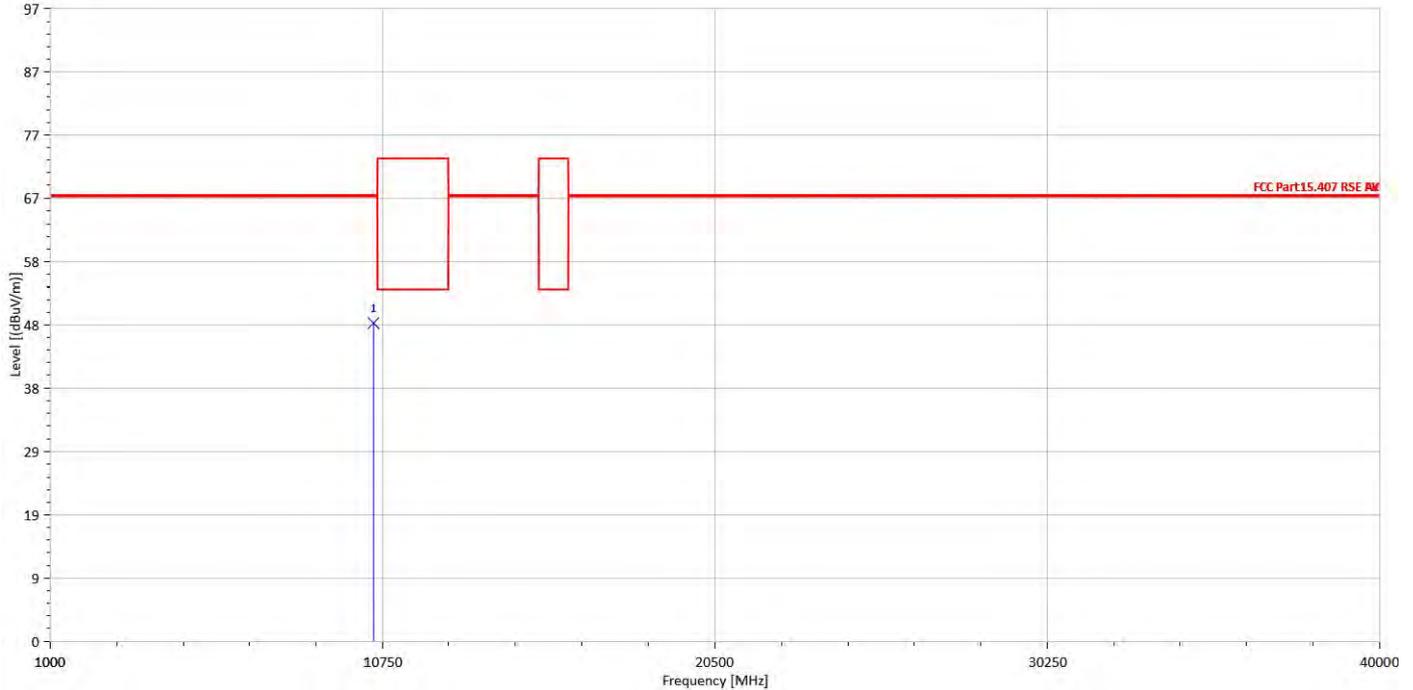
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Operation Mode : 802.11n20 Test Date : 2016/7/18
 Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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
10480.00	H	Peak	30.80	18.00	48.80	68.3	-19.50

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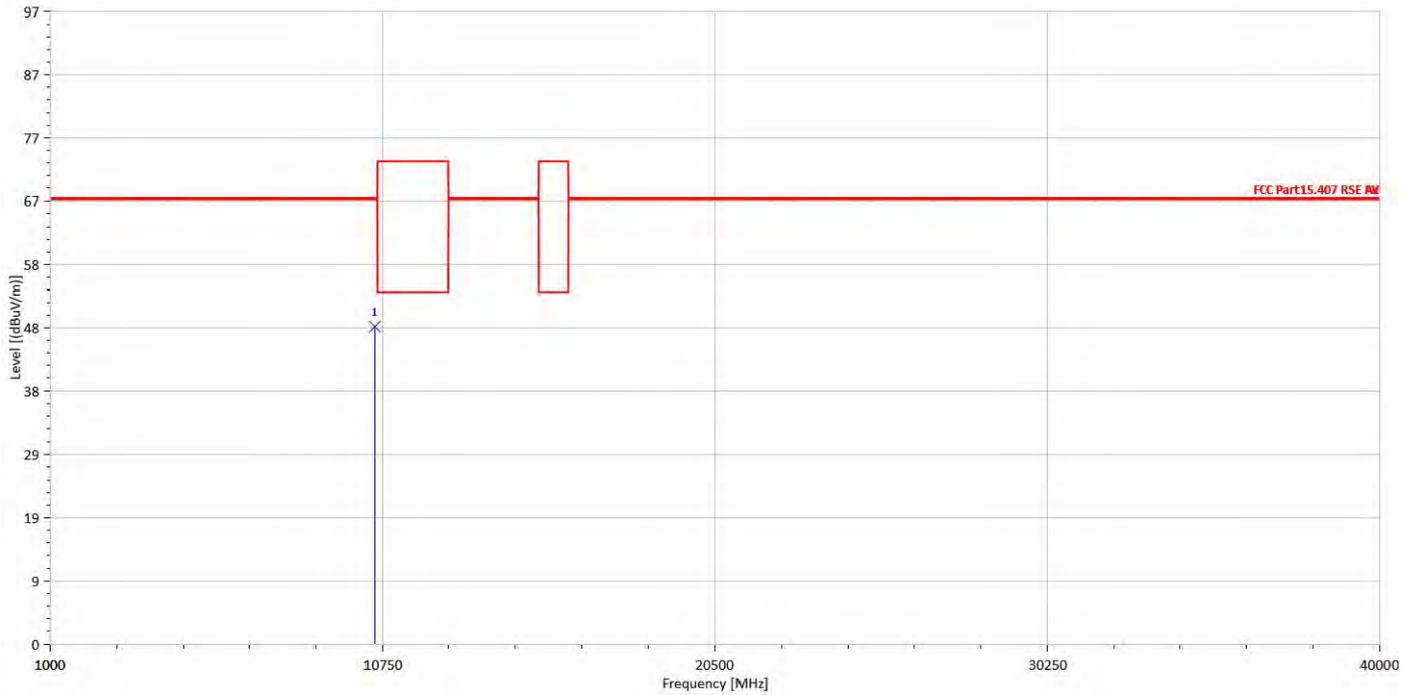
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode :	802.11n20	Test Date :	2016/7/18
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx Ch Low	Test Engineer :	Pony
EUT Pol. :	H	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	31.29	17.39	48.68	68.3	-19.62

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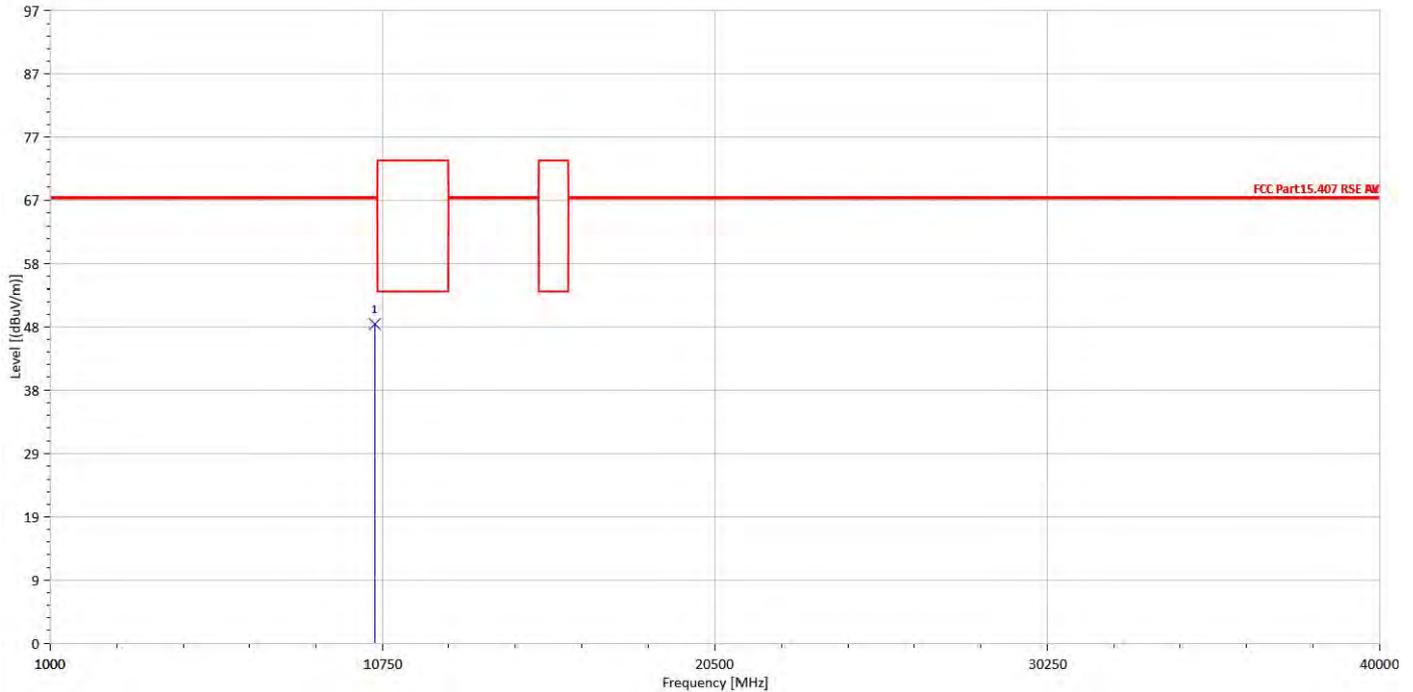
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Operation Mode : 802.11n20 Test Date : 2016/7/18
 Fundamental Frequency : 5260 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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
10520.00	H	Peak	31.58	17.39	48.96	68.3	-19.34

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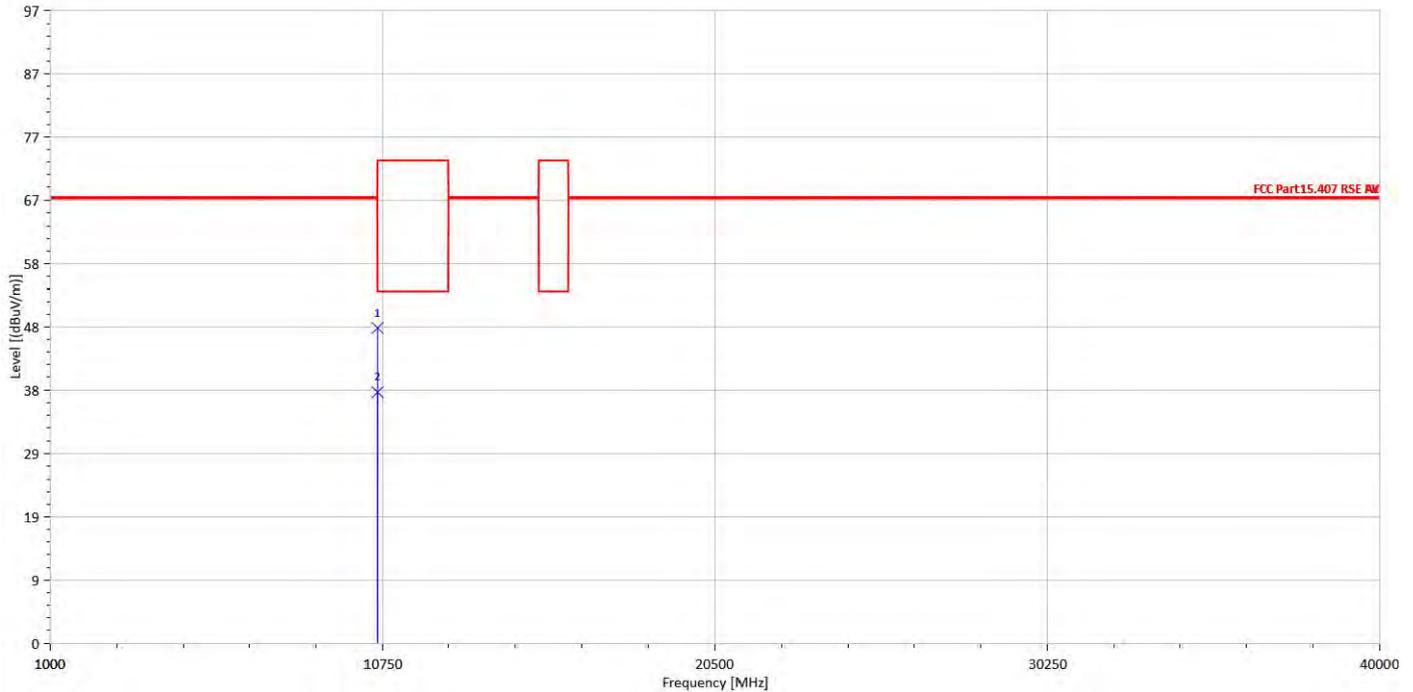
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Operation Mode : 802.11n20 Test Date : 2016/7/18
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10600.00	H	Peak	30.96	17.41	48.36	74	-25.64
10600.00	H	Average	21.15	17.41	38.56	54	-15.44

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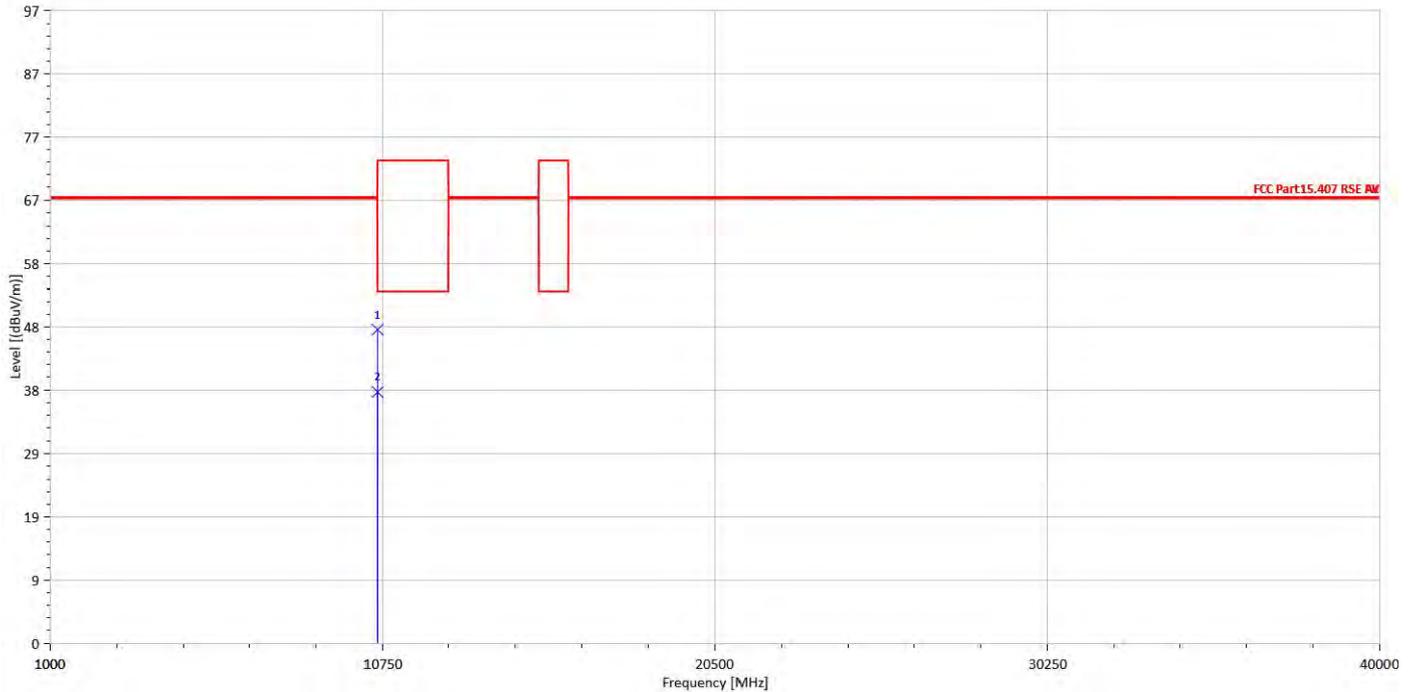
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Operation Mode : 802.11n20 Test Date : 2016/7/18
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10600.00	H	Peak	30.70	17.41	48.11	74	-25.89
10600.00	H	Average	21.17	17.41	38.58	54	-15.42

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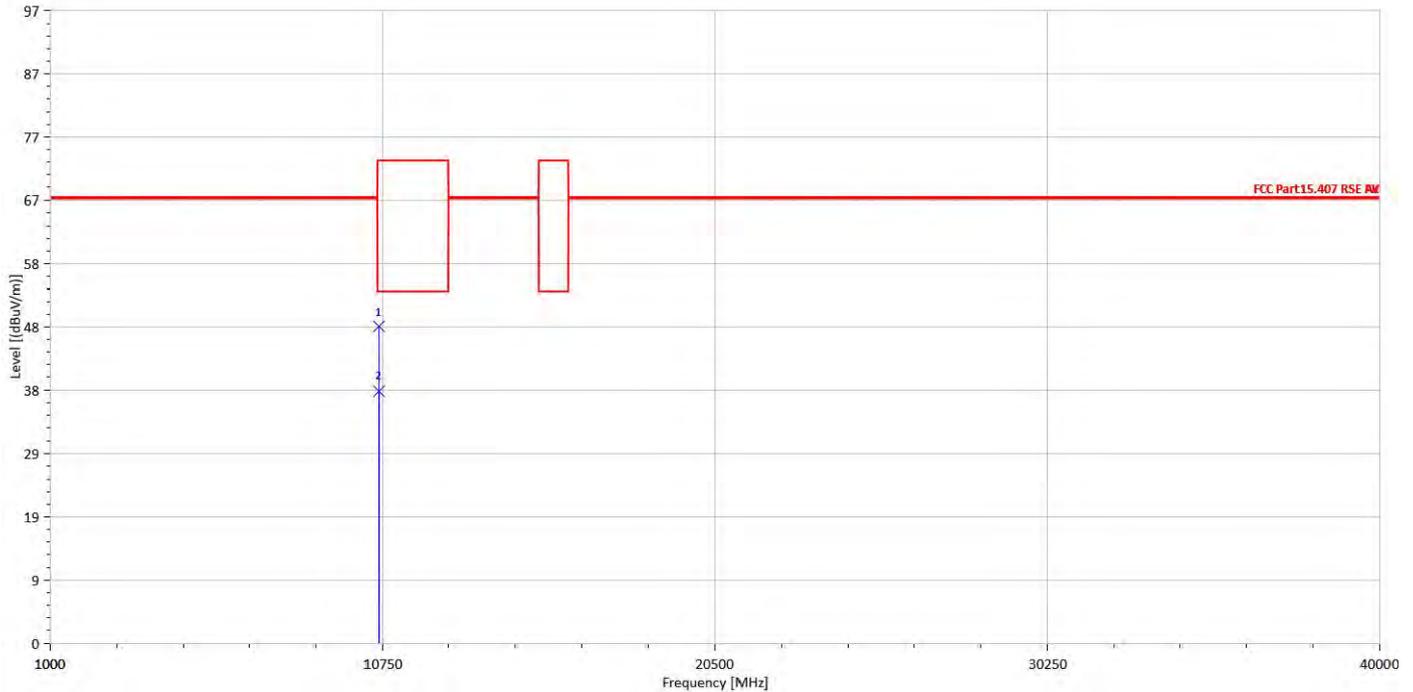
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Operation Mode : 802.11n20 Test Date : 2016/7/18
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10640.00	H	Peak	31.05	17.56	48.61	74	-25.39
10640.00	H	Average	21.14	17.56	38.70	54	-15.30

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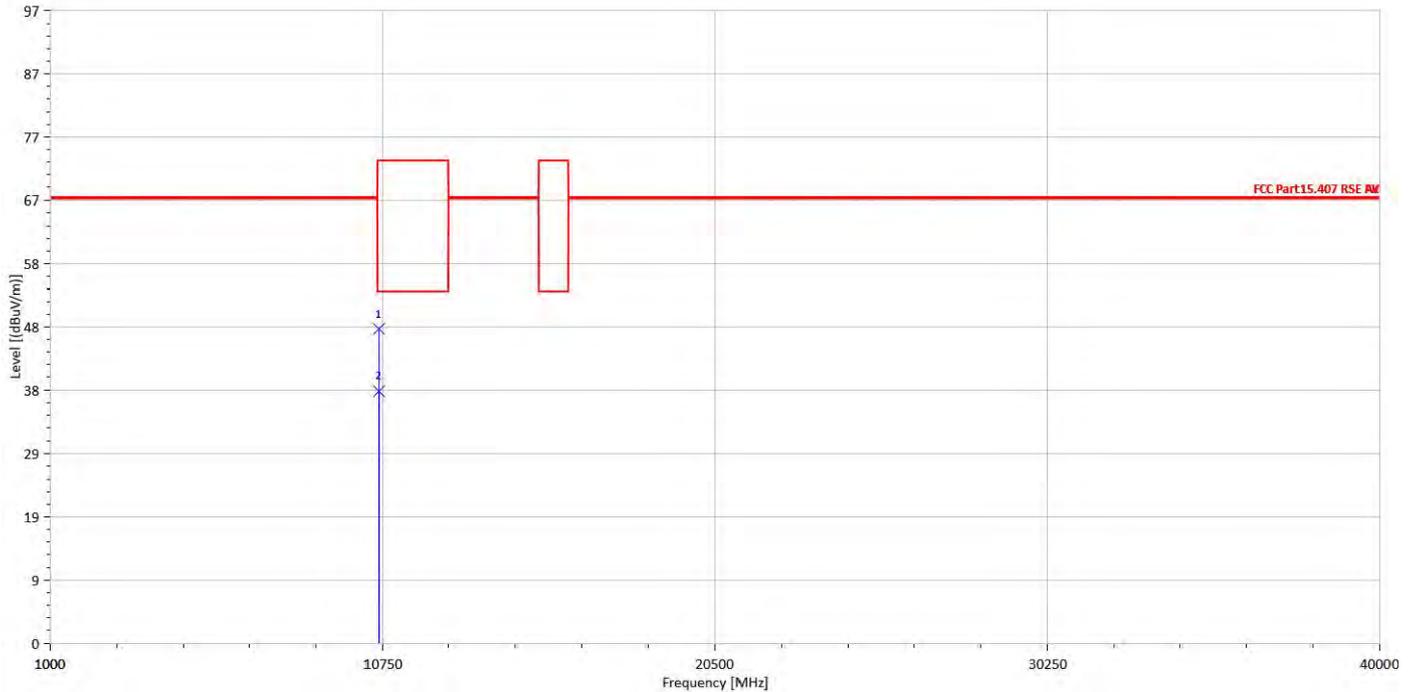
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Operation Mode : 802.11n20 Test Date : 2016/7/18
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10640.00	H	Peak	30.66	17.56	48.22	74	-25.78
10640.00	H	Average	21.14	17.56	38.70	54	-15.30

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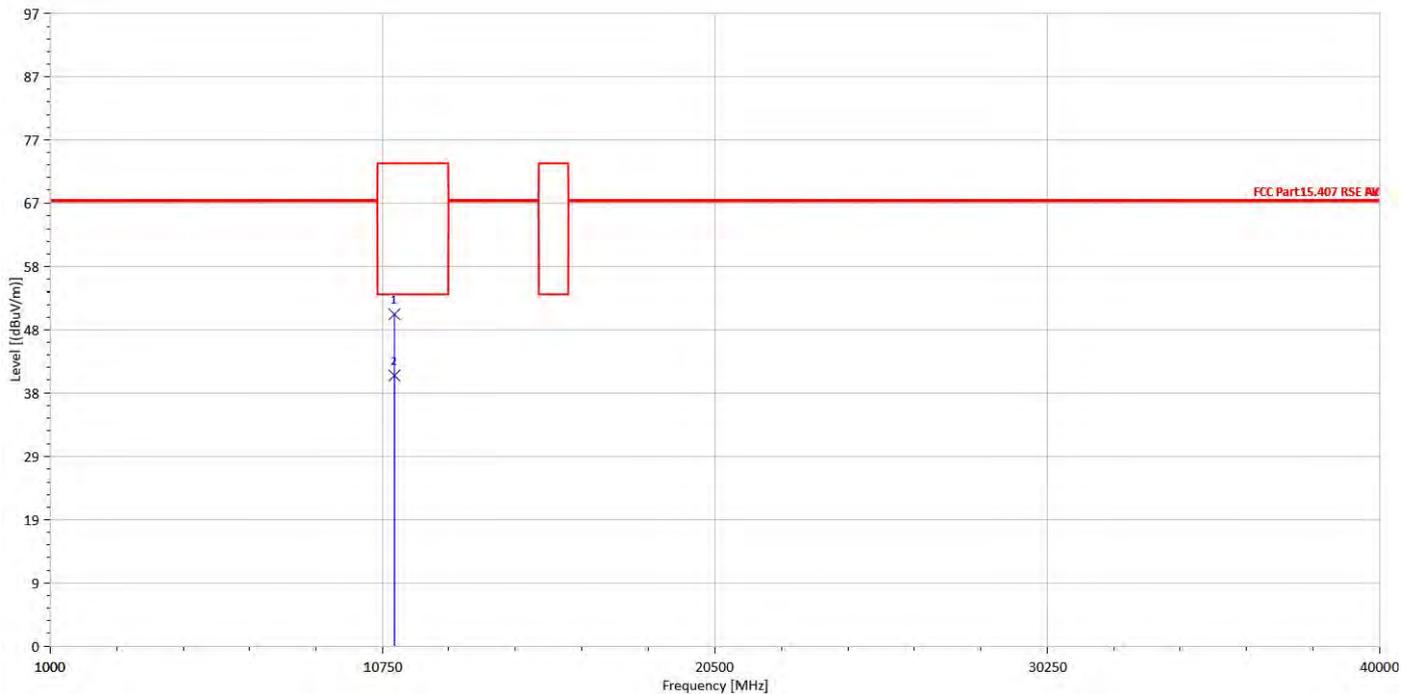
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode :	802.11n20	Test Date :	2016/7/18
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx Ch Low	Test Engineer :	Pony
EUT Pol. :	H	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
11100.00	H	Peak	30.62	20.30	50.93	74	-23.07
11100.00	H	Average	21.14	20.30	41.44	54	-12.56

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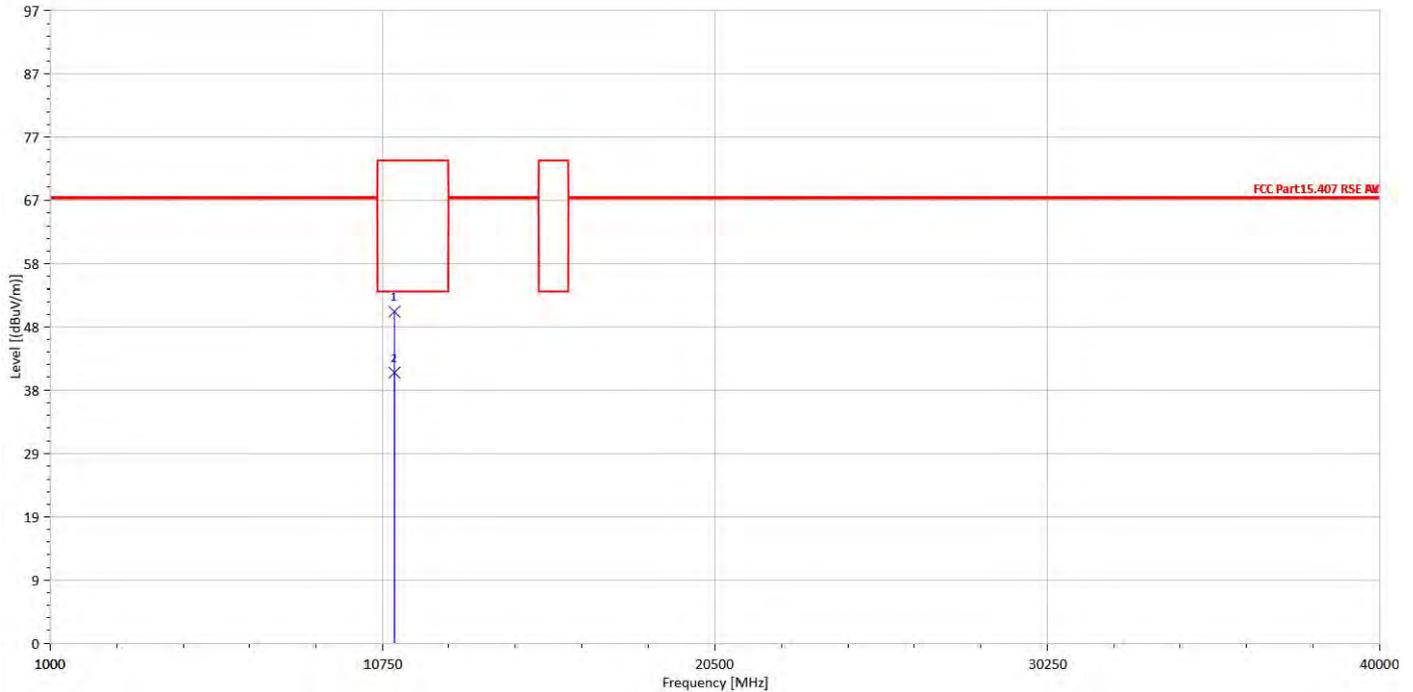
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Operation Mode : 802.11n20 Test Date : 2016/7/18
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11100.00	H	Peak	30.59	20.30	50.89	74	-23.11
11100.00	H	Average	21.14	20.30	41.44	54	-12.56

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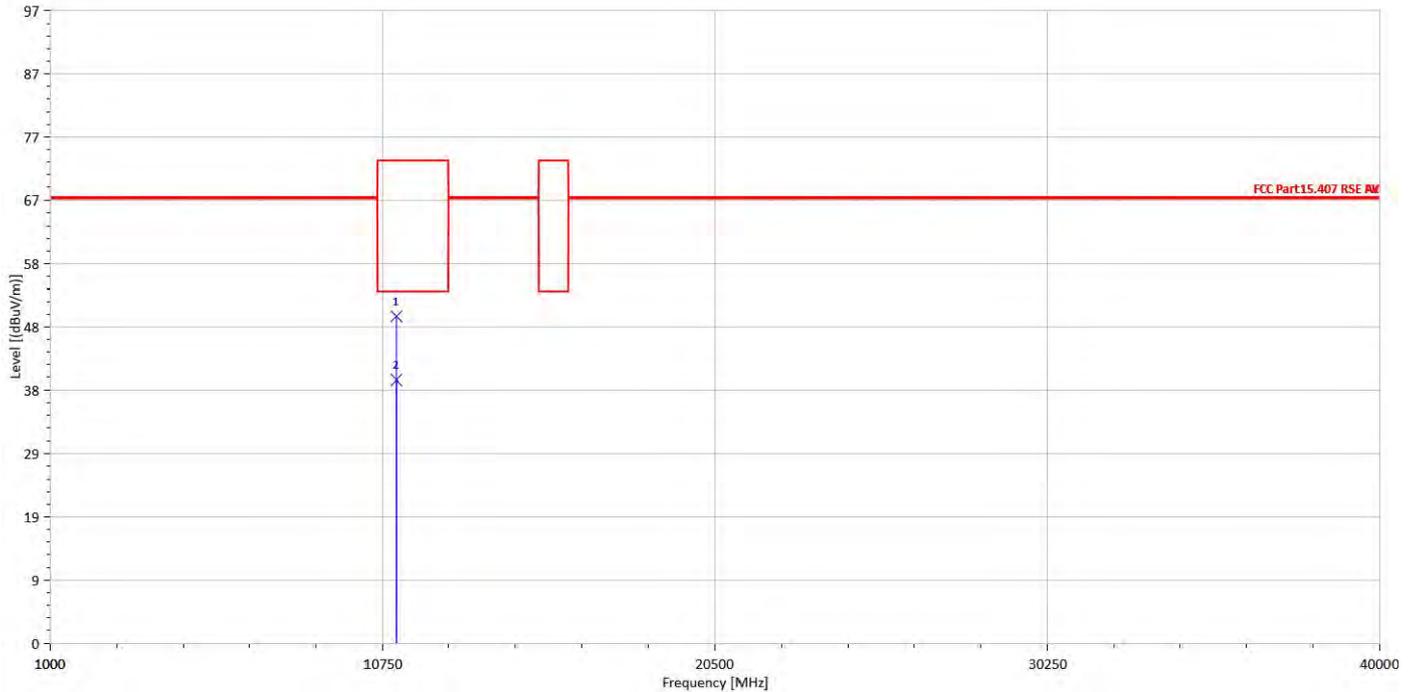
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Operation Mode : 802.11n20 Test Date : 2016/7/18
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	H	Peak	30.90	19.26	50.16	74	-23.84
11160.00	H	Average	21.11	19.26	40.37	54	-13.63

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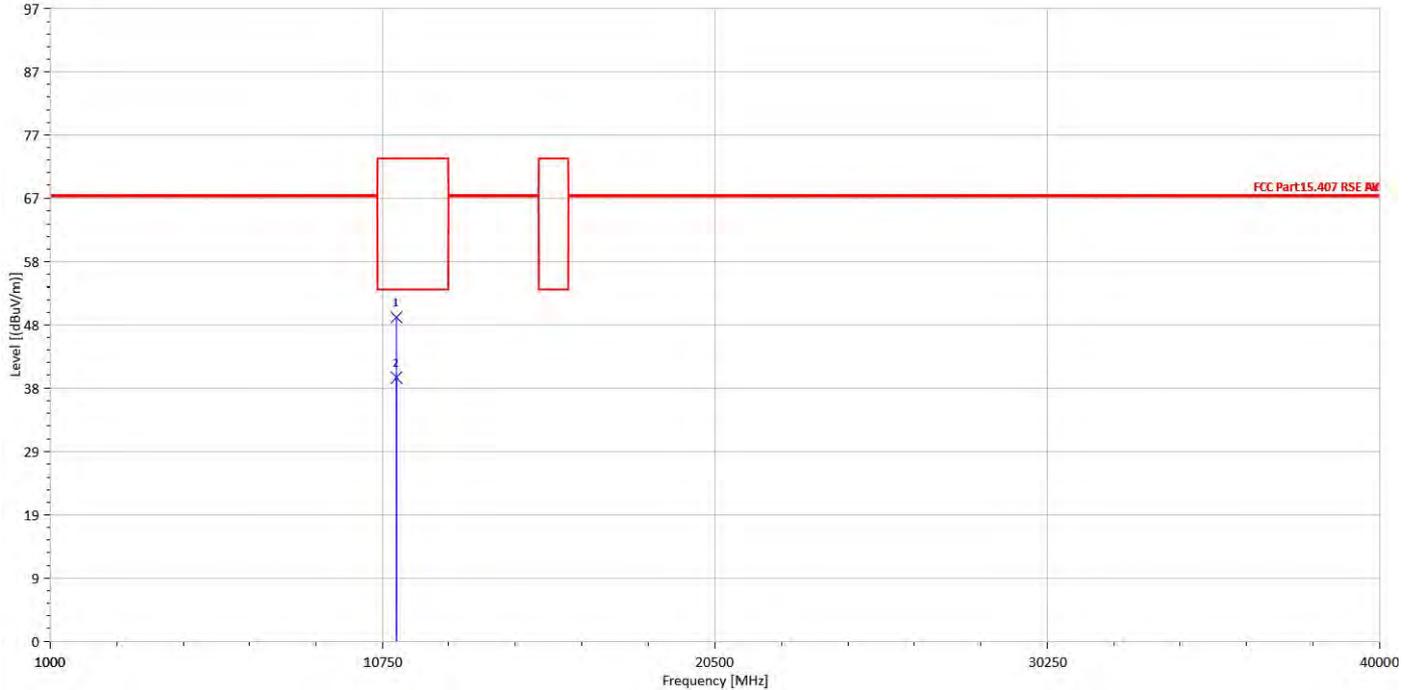
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 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	30.44	19.26	49.70	74	-24.30
11160.00	H	Average	21.16	19.26	40.42	54	-13.58

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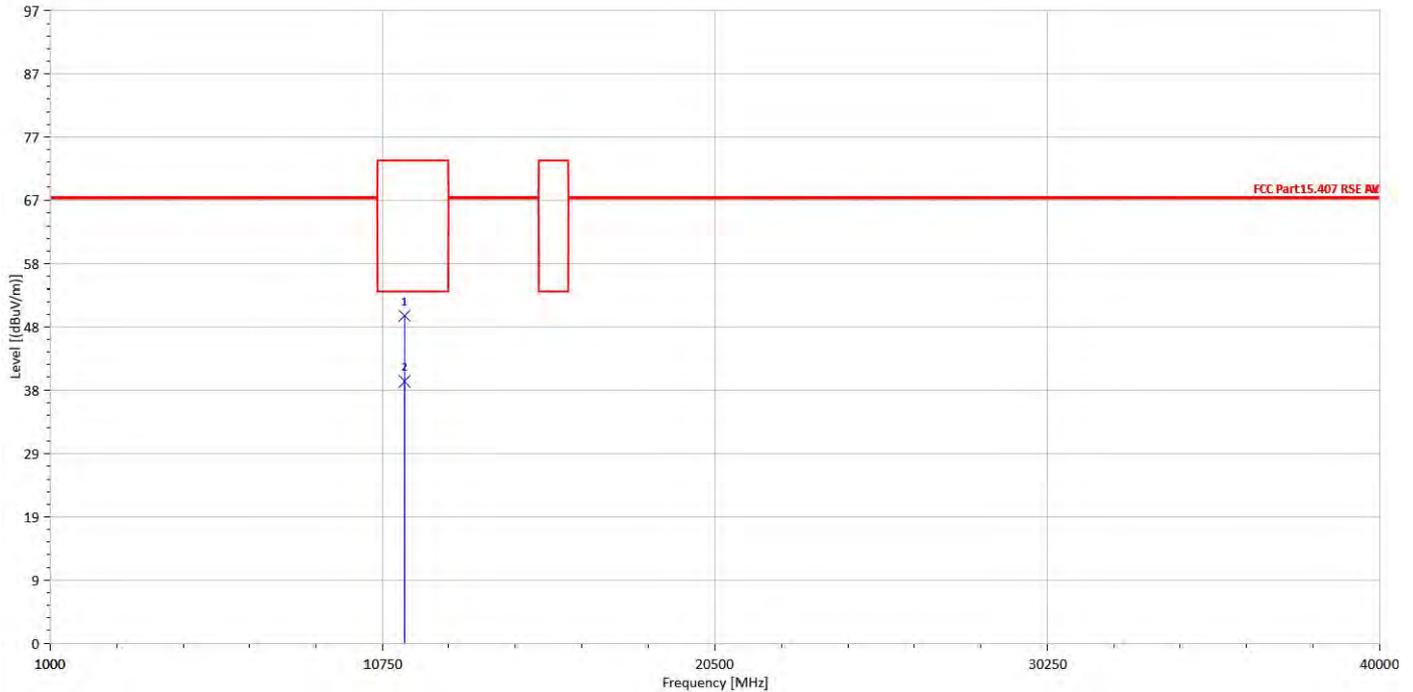
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Operation Mode : 802.11n20 Test Date : 2016/7/18
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11400.00	H	Peak	31.48	18.78	50.25	74	-23.75
11400.00	H	Average	21.37	18.78	40.15	54	-13.85

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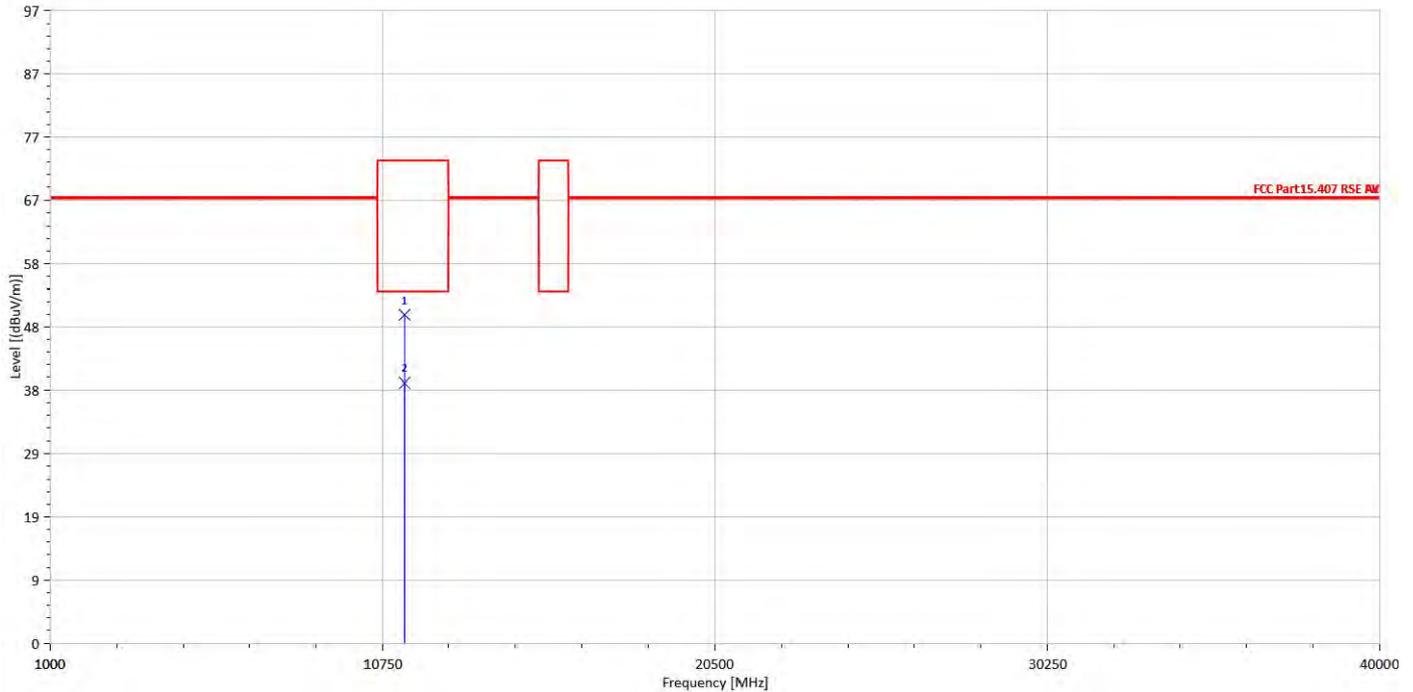
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Operation Mode : 802.11n20 Test Date : 2016/7/18
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	H	Peak	31.62	18.78	50.39	74	-23.61
11400.00	H	Average	21.14	18.78	39.92	54	-14.08

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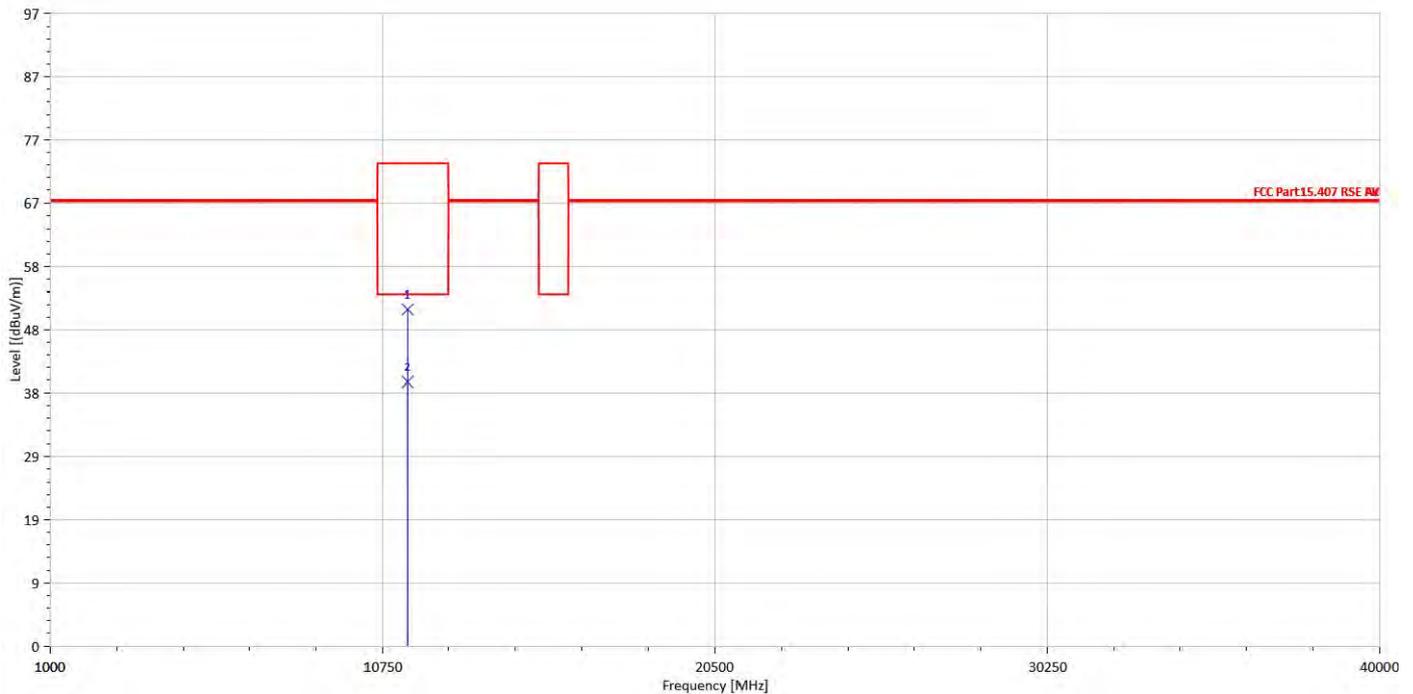
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode :	802.11n20	Test Date :	2016/7/18
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx Ch Low	Test Engineer :	Pony
EUT Pol. :	H	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
11490.00	H	Peak	33.27	18.39	51.66	74	-22.34
11490.00	H	Average	22.12	18.39	40.51	54	-13.49

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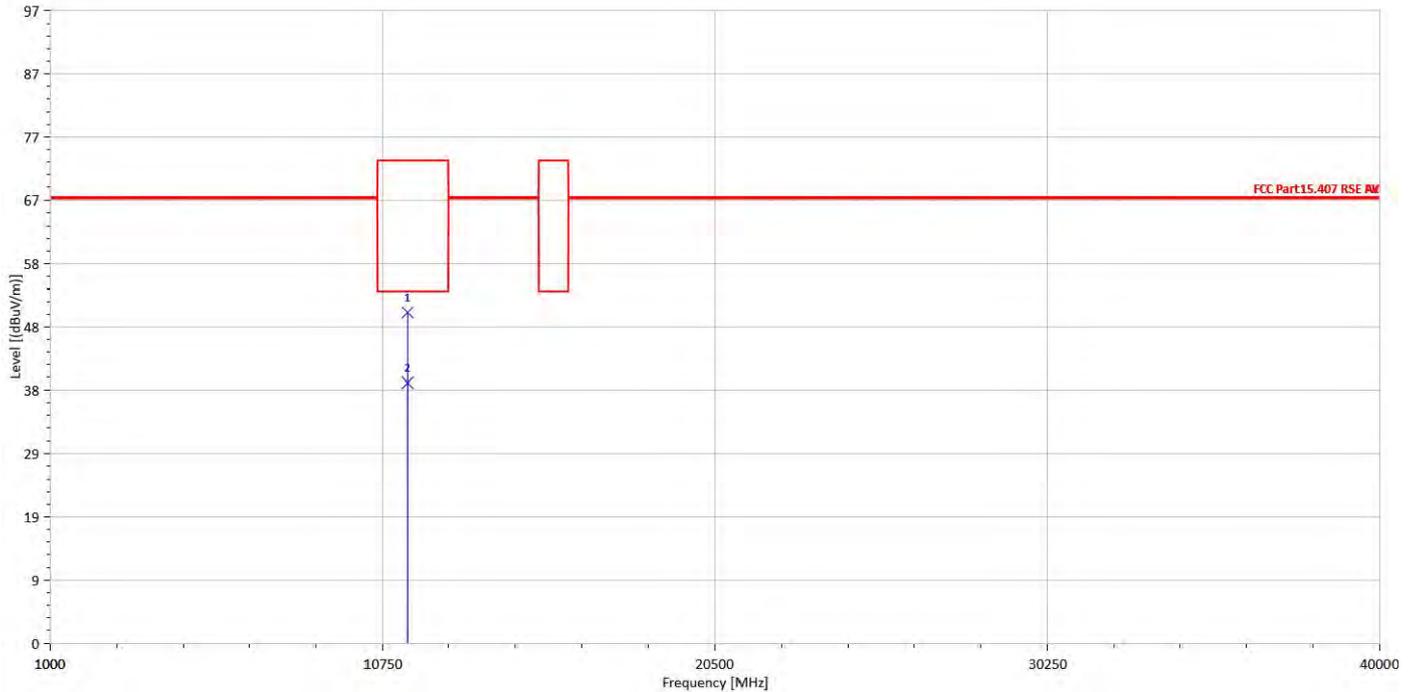
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Operation Mode : 802.11n20 Test Date : 2016/7/18
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	32.37	18.39	50.75	74	-23.25
11490.00	H	Average	21.55	18.39	39.94	54	-14.06

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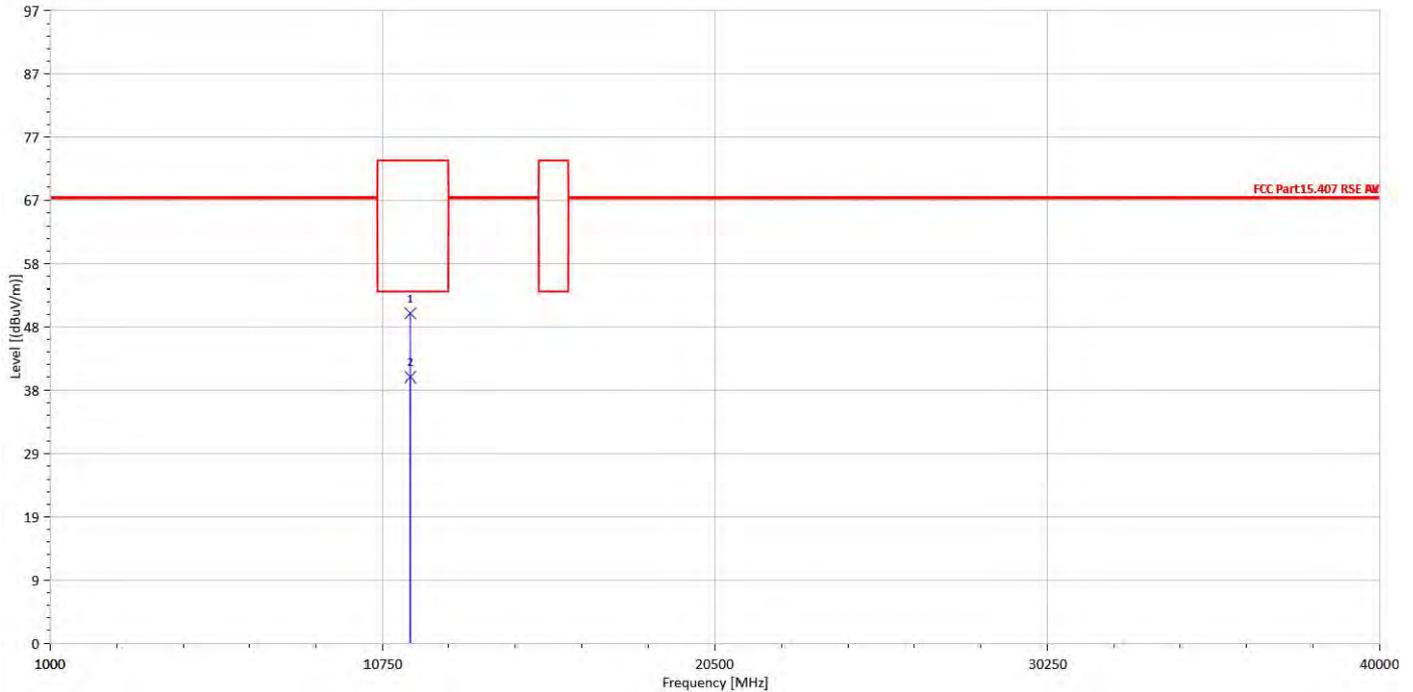
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Operation Mode : 802.11n20 Test Date : 2016/7/18
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	H	Peak	31.23	19.38	50.62	74	-23.38
11570.00	H	Average	21.41	19.38	40.79	54	-13.21

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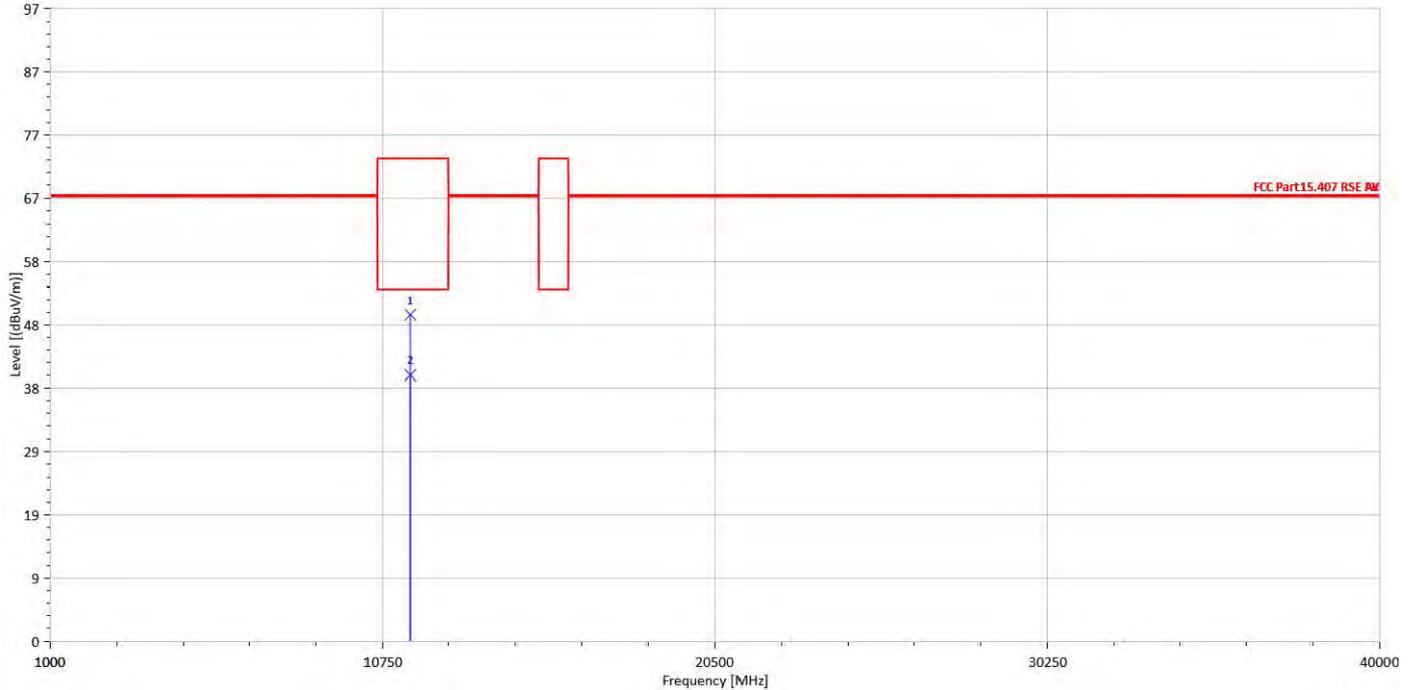
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Operation Mode : 802.11n20 Test Date : 2016/7/18
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	H	Peak	30.71	19.38	50.09	74	-23.91
11570.00	H	Average	21.41	19.38	40.79	54	-13.21

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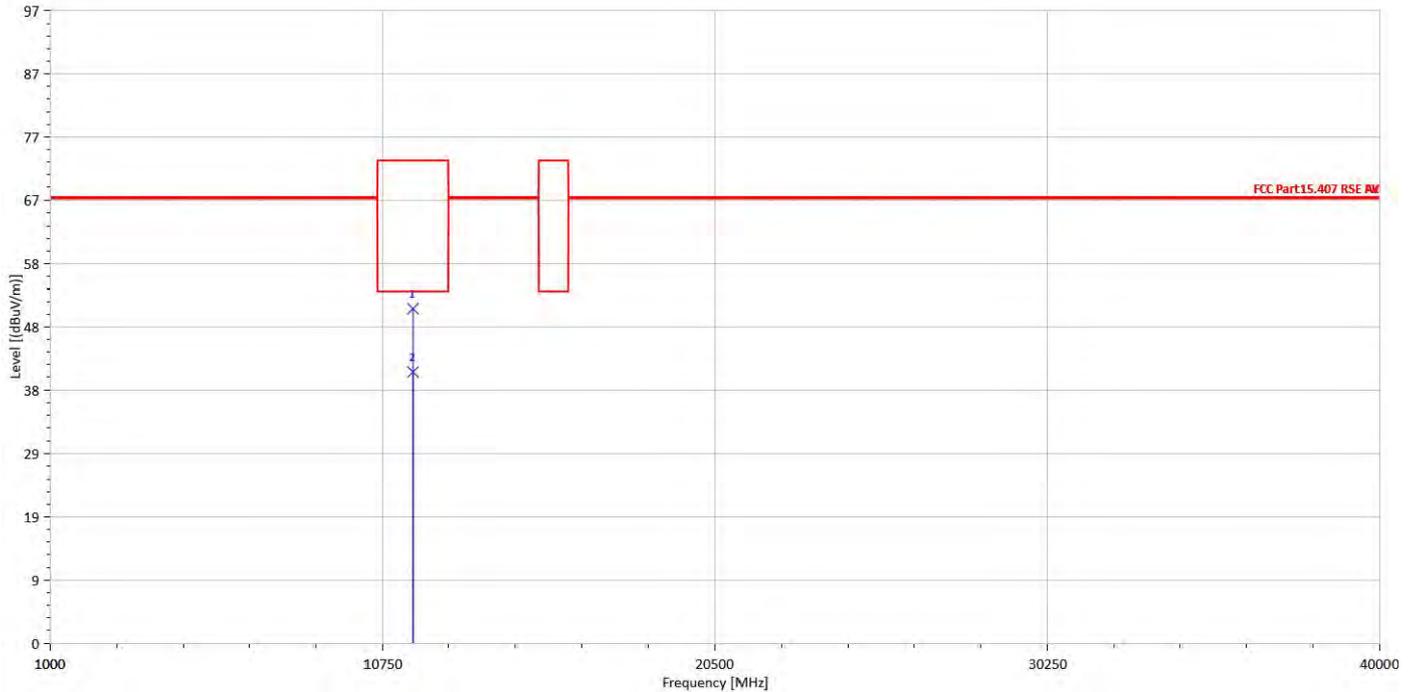
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Operation Mode : 802.11n20 Test Date : 2016/7/18
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11650.00	H	Peak	31.11	20.23	51.34	74	-22.66
11650.00	H	Average	21.31	20.23	41.54	54	-12.46

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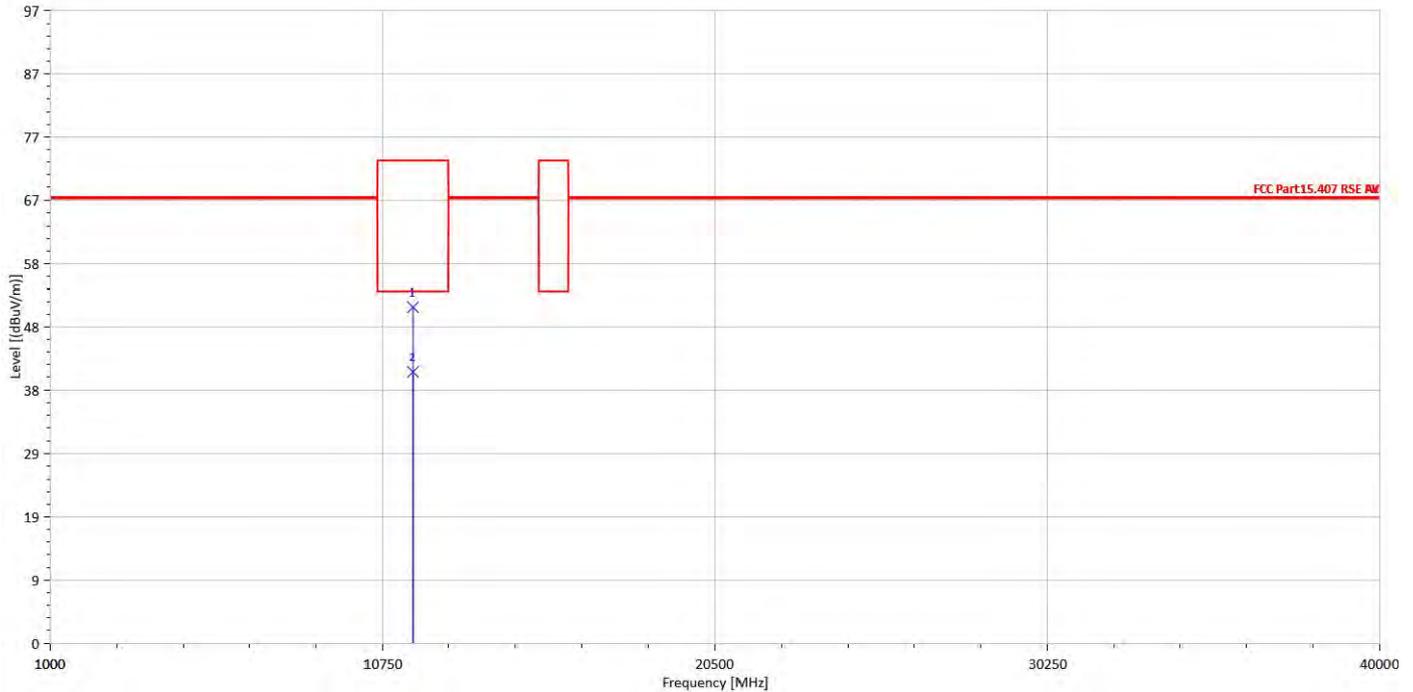
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 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	31.33	20.23	51.57	74	-22.43
11650.00	H	Average	21.32	20.23	41.55	54	-12.45

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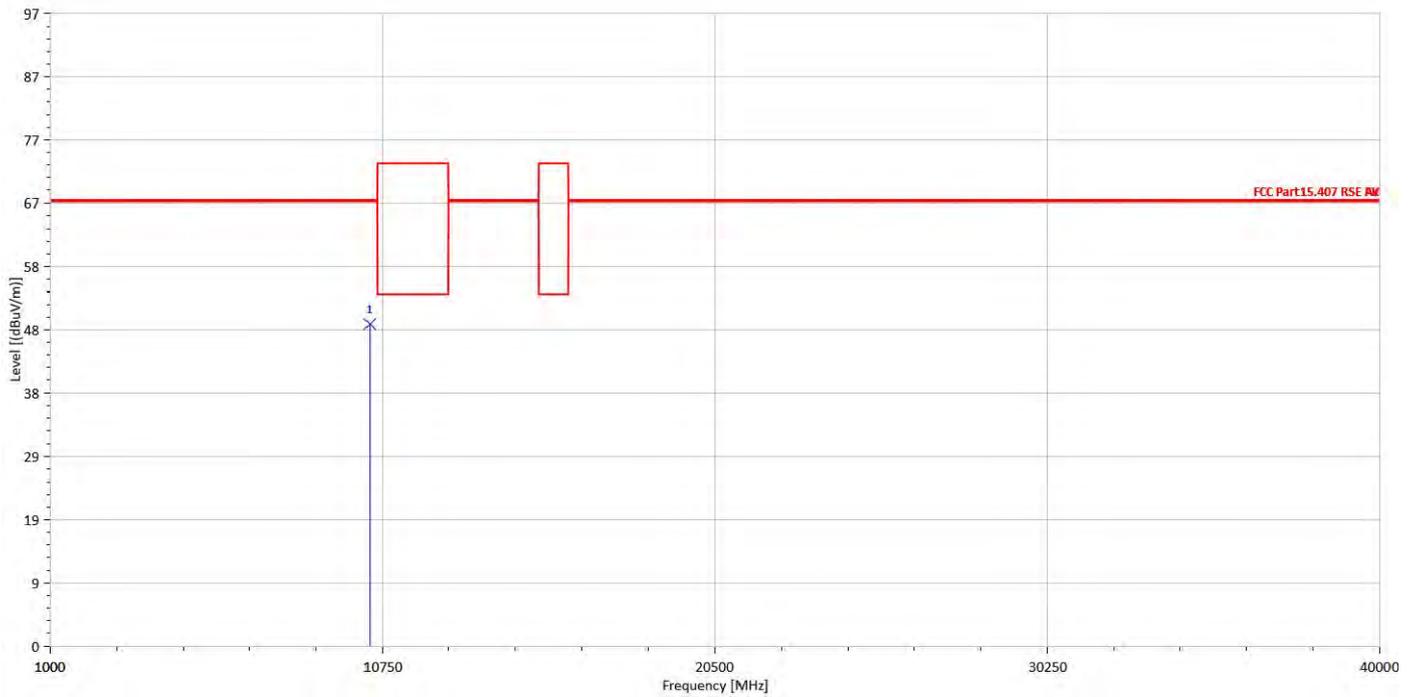
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode :	802.11n40	Test Date :	2016/7/18
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx Ch Low	Test Engineer :	Pony
EUT Pol. :	H	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	31.02	18.37	49.40	68.3	-18.90

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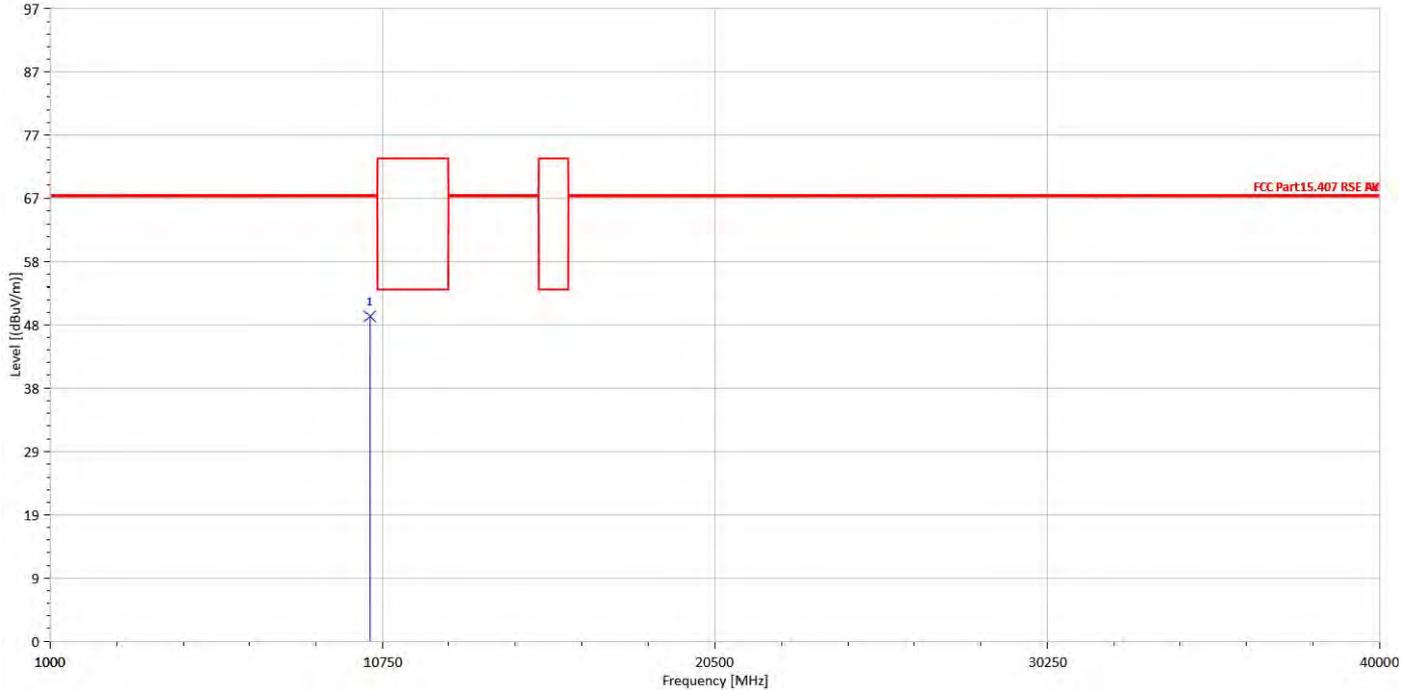
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Operation Mode : 802.11n40 Test Date : 2016/7/18
 Fundamental Frequency : 5190 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	31.48	18.37	49.85	68.3	-18.45

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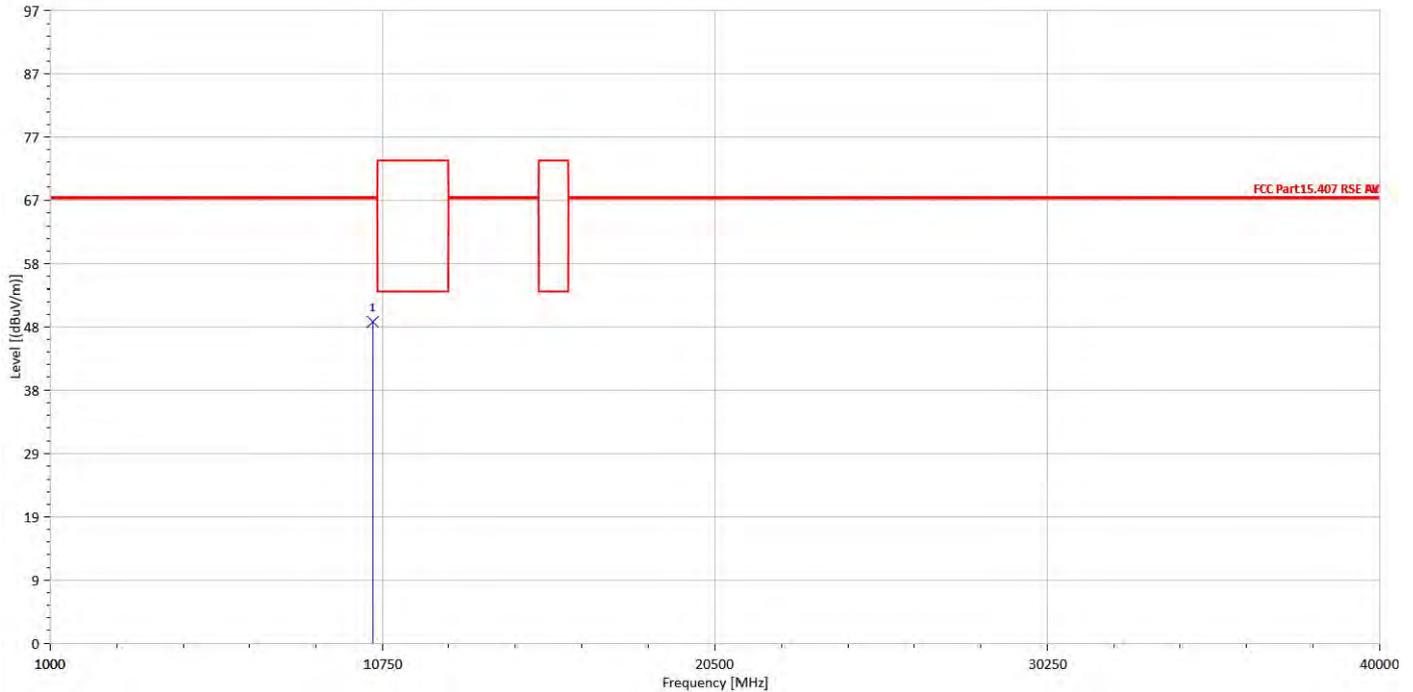
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Operation Mode : 802.11n40 Test Date : 2016/7/18
 Fundamental Frequency : 5230 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10460.00	H	Peak	31.01	18.29	49.30	68.3	-19.00

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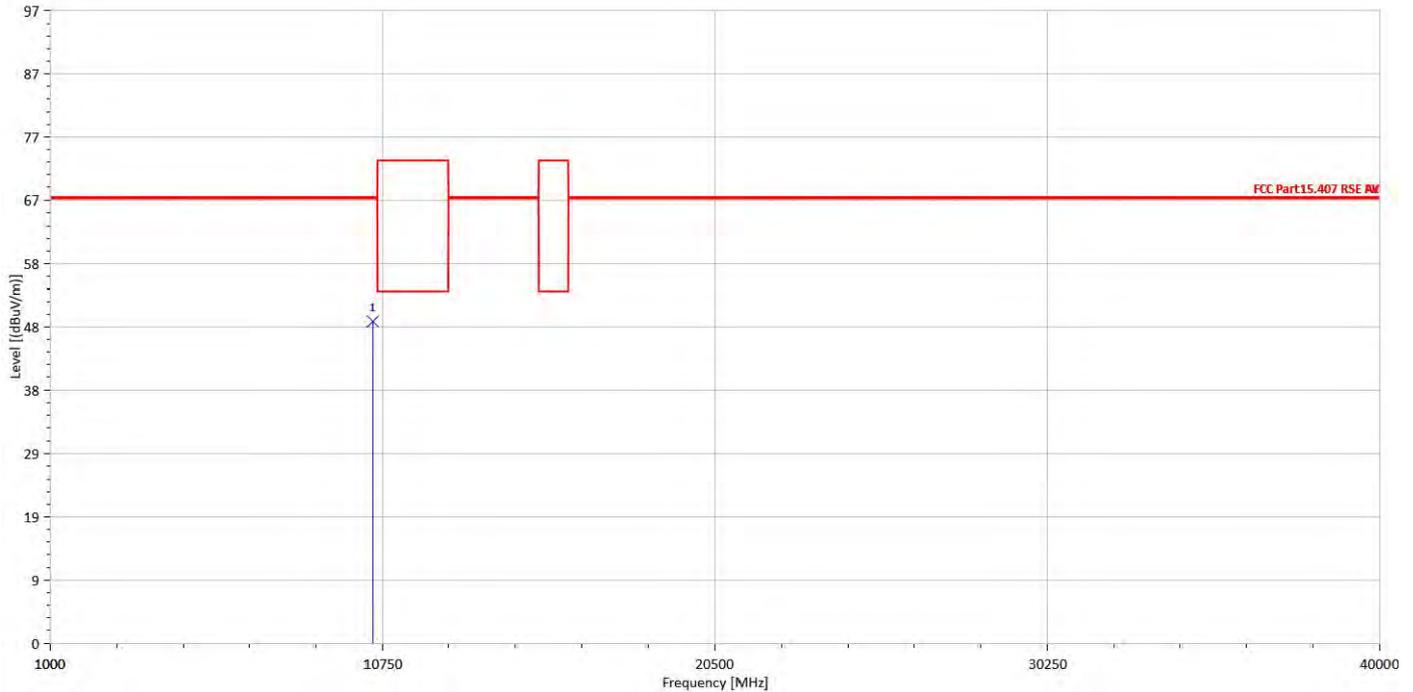
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Operation Mode : 802.11n40 Test Date : 2016/7/18
 Fundamental Frequency : 5230 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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
10460.00	H	Peak	31.06	18.29	49.36	68.3	-18.94

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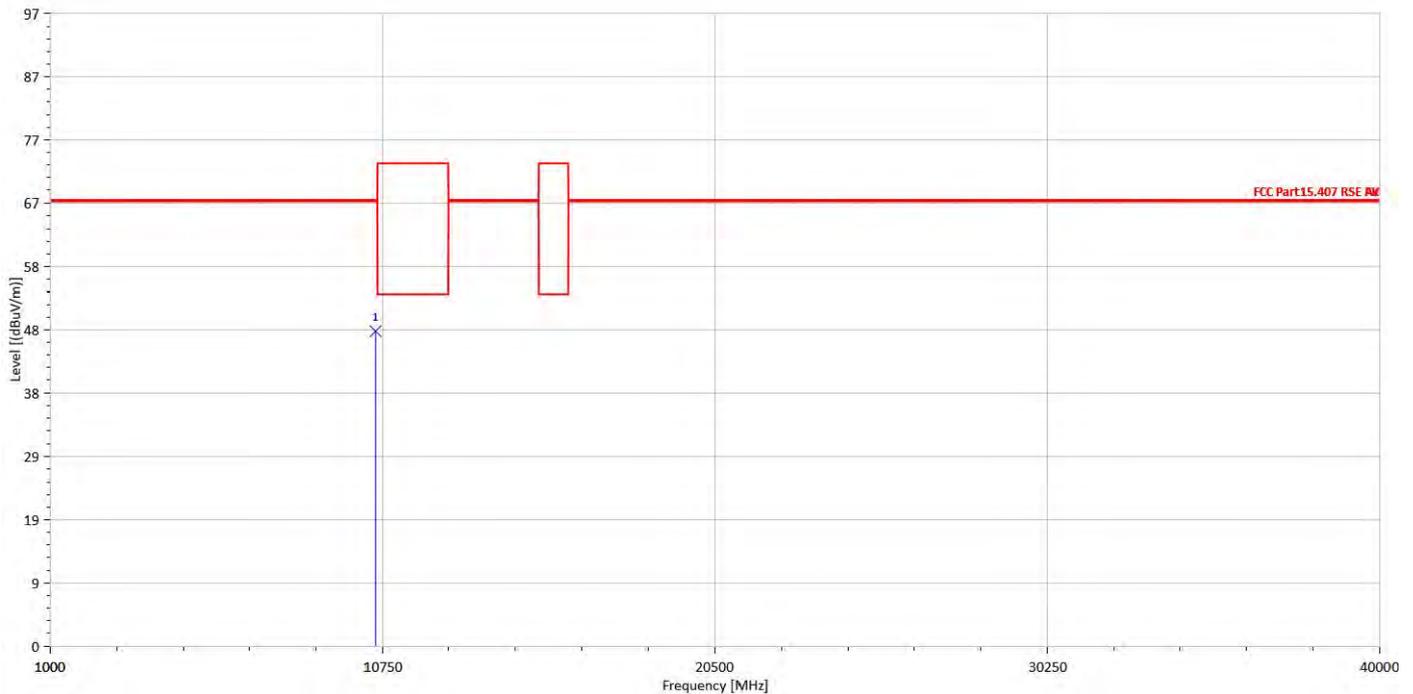
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Mode :	802.11n40	Test Date :	2016/7/18
Fundamental Frequency :	5270 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx Ch Low	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10540.00	H	Peak	30.96	17.34	48.30	68.3	-20.00

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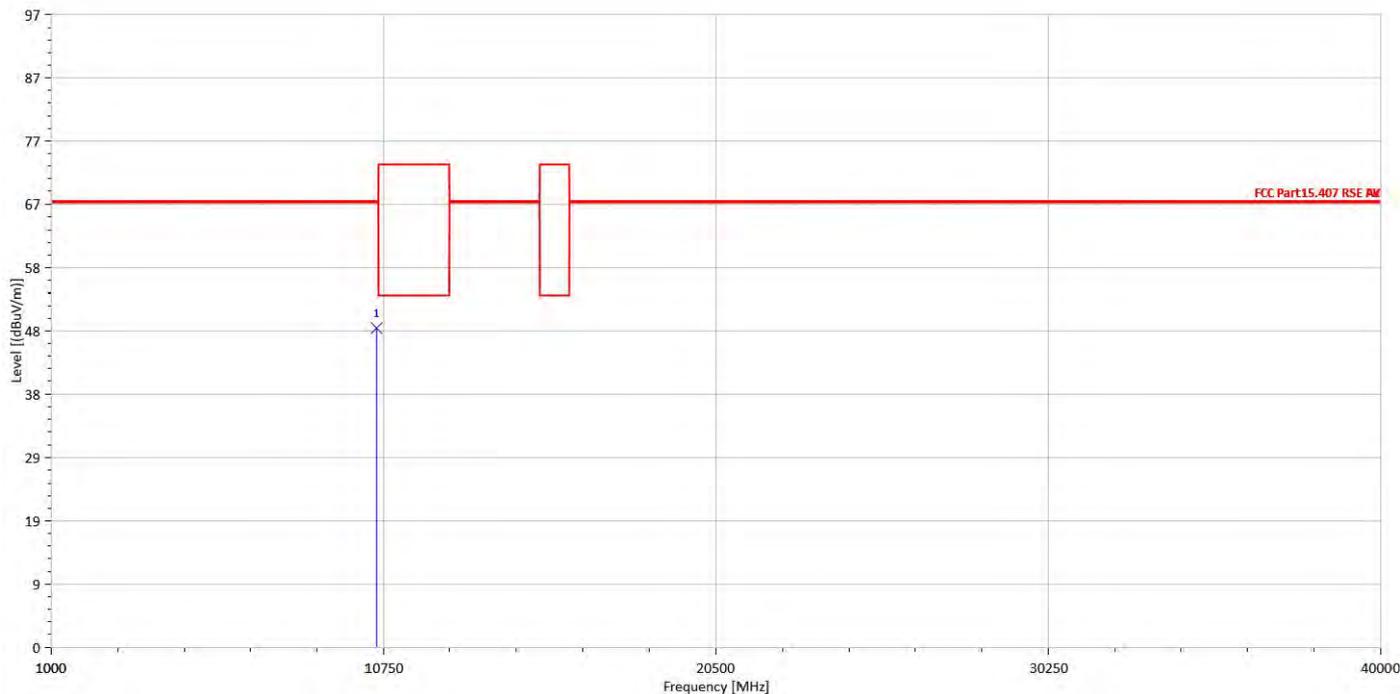
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Operation Mode : 802.11n40 Test Date : 2016/7/18
 Fundamental Frequency : 5270 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
10540.00	H	Peak	31.63	17.34	48.96	68.3	-19.34

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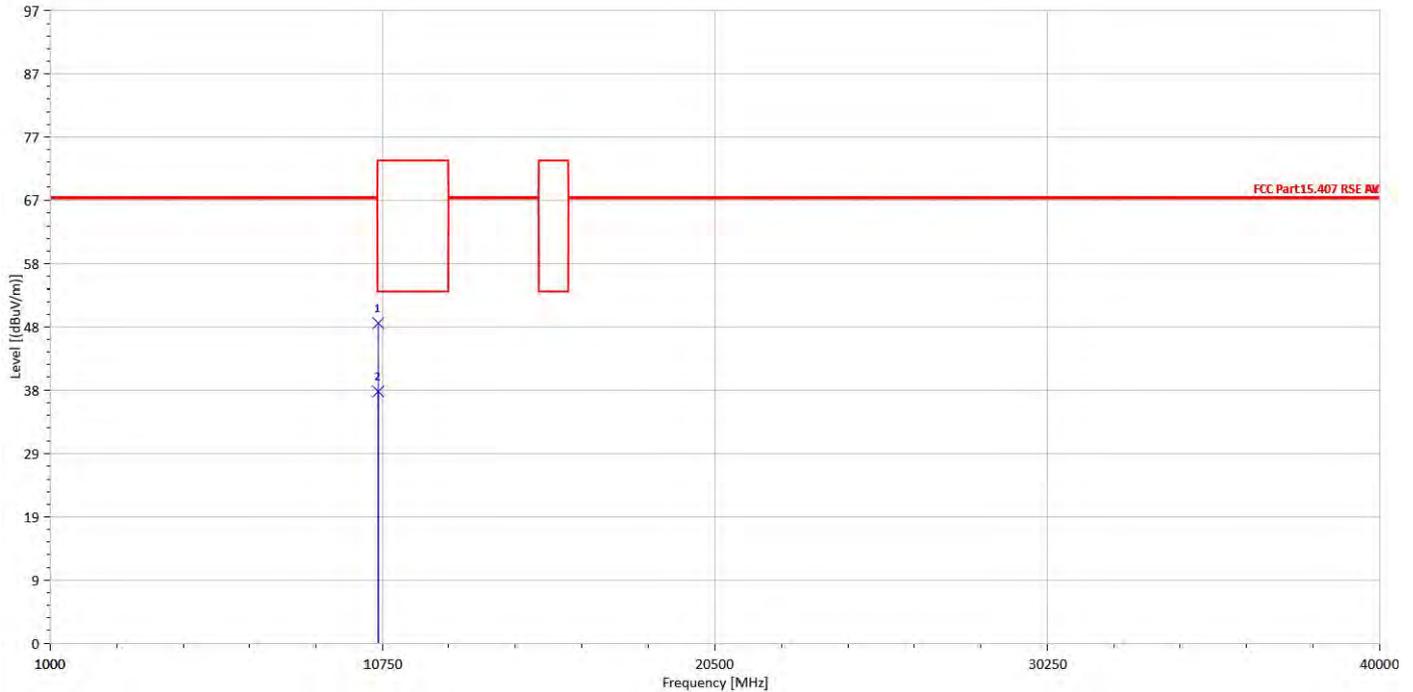
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Operation Mode : 802.11n40 Test Date : 2016/7/18
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10620.00	H	Peak	31.58	17.52	49.10	74	-24.90
10620.00	H	Average	21.14	17.52	38.66	54	-15.34

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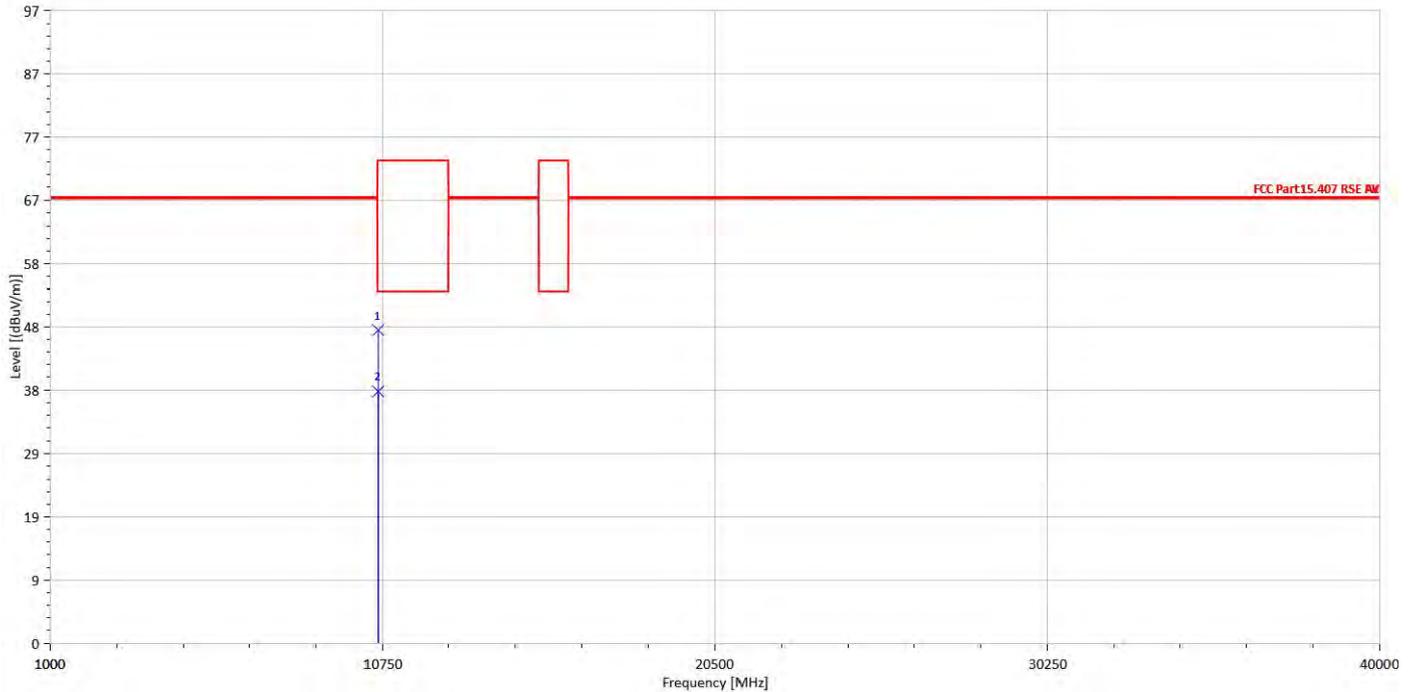
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Operation Mode : 802.11n40 Test Date : 2016/7/18
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10620.00	H	Peak	30.51	17.52	48.03	74	-25.97
10620.00	H	Average	21.16	17.52	38.68	54	-15.32

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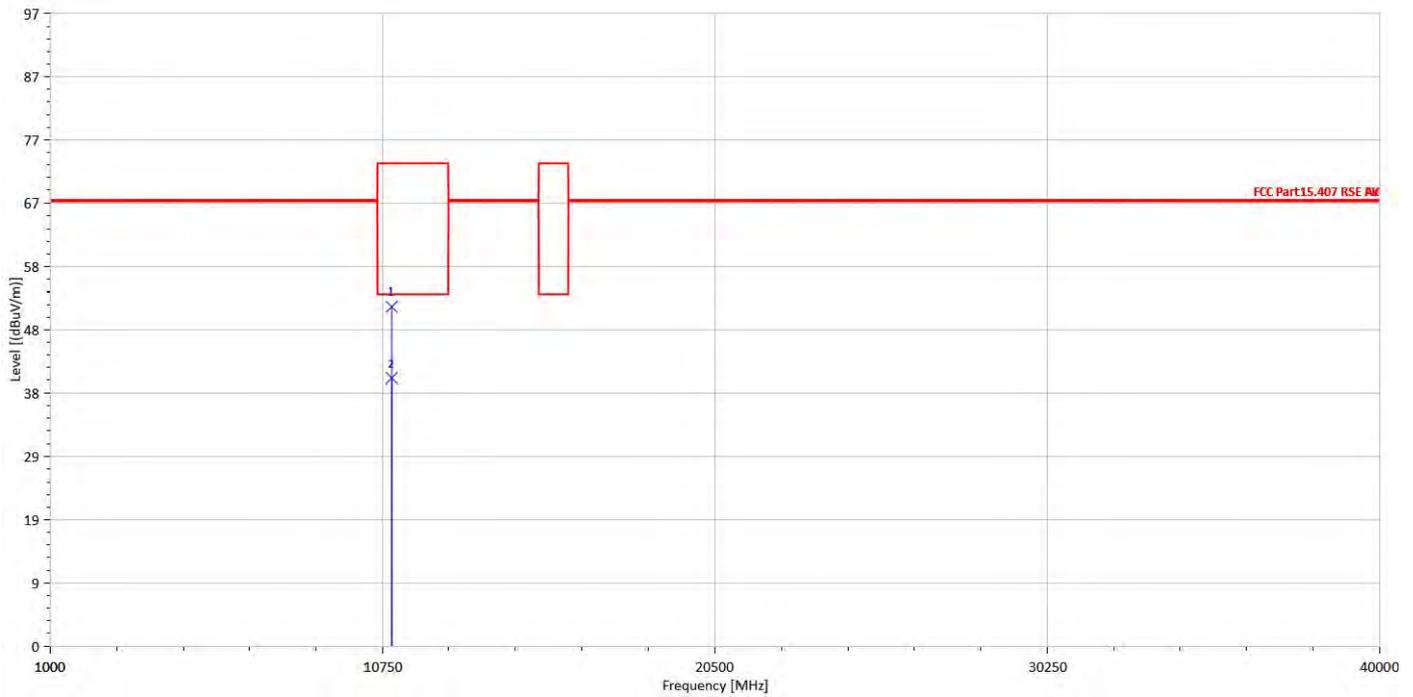
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Mode :	802.11n40	Test Date :	2016/7/18
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx Ch Low	Test Engineer :	Pony
EUT Pol. :	H	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
11020.00	H	Peak	32.15	19.93	52.08	74	-21.92
11020.00	H	Average	21.14	19.93	41.07	54	-12.93

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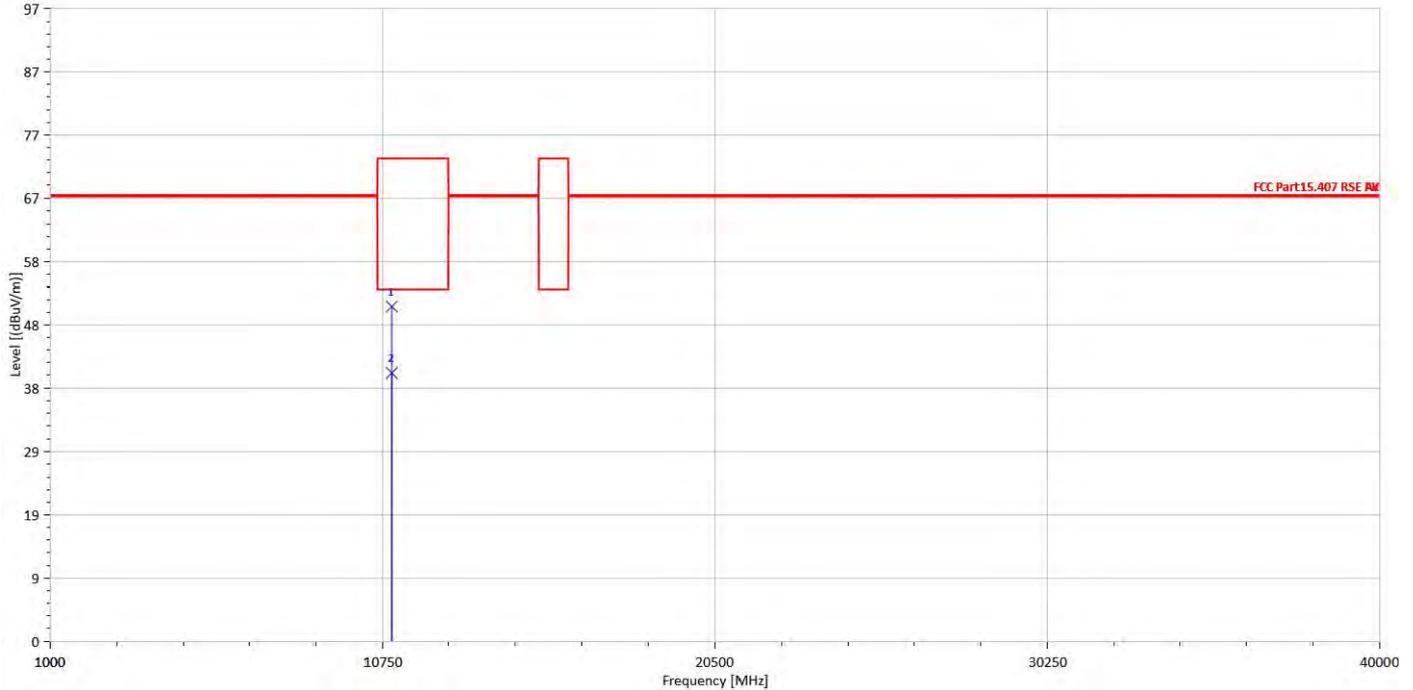
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Operation Mode : 802.11n40 Test Date : 2016/7/18
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11020.00	H	Peak	31.44	19.93	51.36	74	-22.64
11020.00	H	Average	21.16	19.93	41.09	54	-12.91

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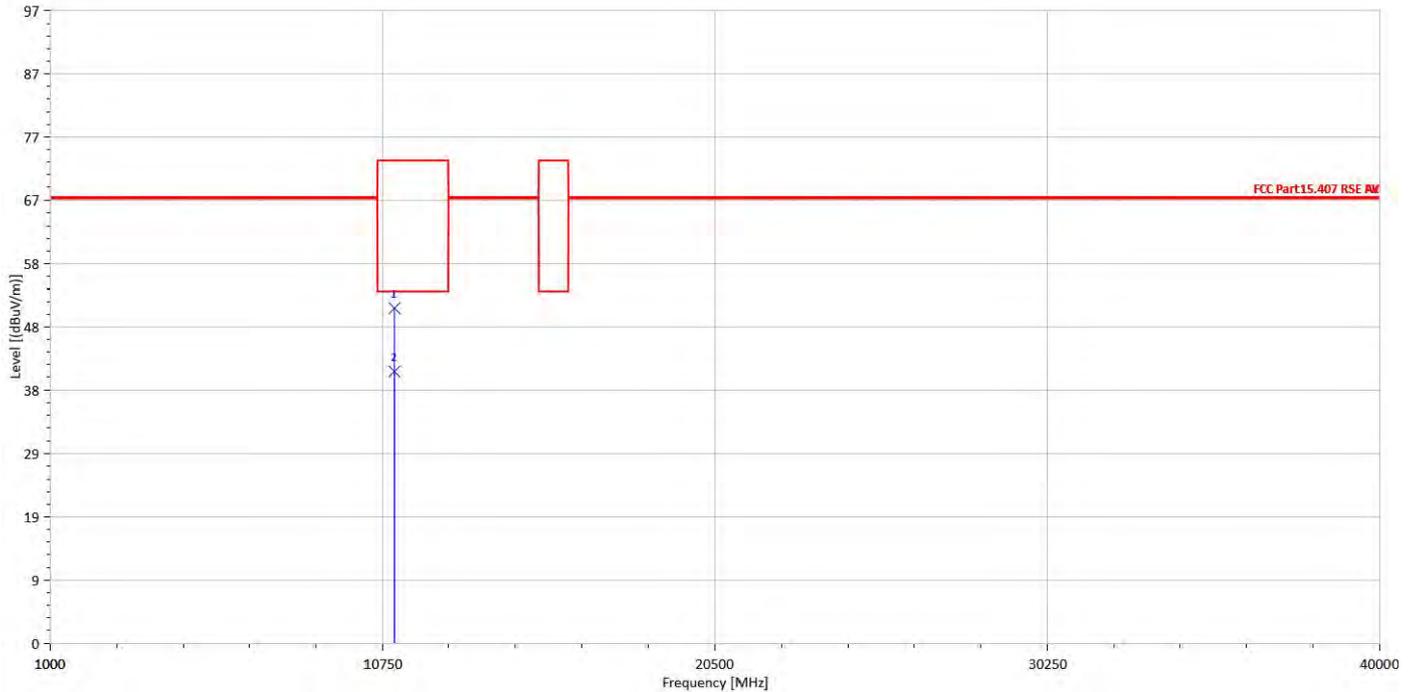
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Operation Mode : 802.11n40 Test Date : 2016/7/18
 Fundamental Frequency : 5550 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11100.00	H	Peak	31.10	20.30	51.40	74	-22.60
11100.00	H	Average	21.31	20.30	41.61	54	-12.39

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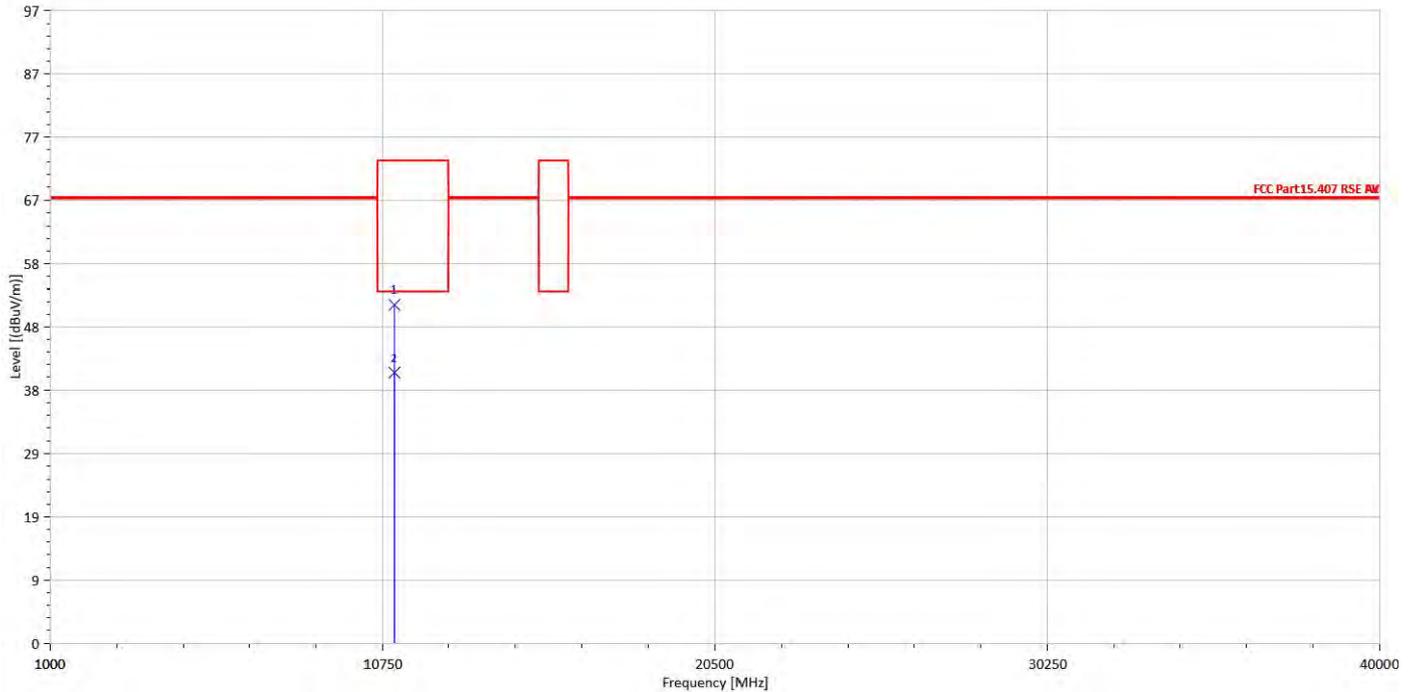
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Operation Mode : 802.11n40 Test Date : 2016/7/18
 Fundamental Frequency : 5550 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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
11100.00	H	Peak	31.62	20.30	51.93	74	-22.07
11100.00	H	Average	21.14	20.30	41.44	54	-12.56

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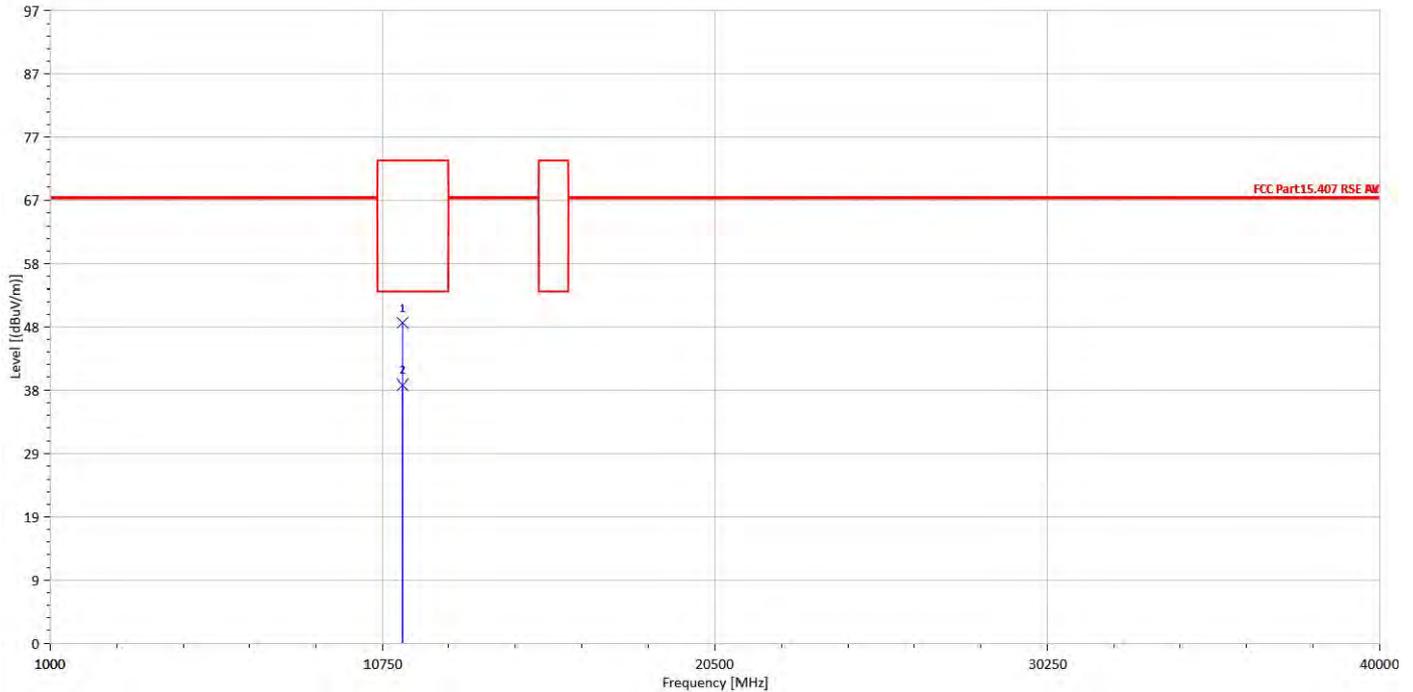
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Operation Mode : 802.11n40 Test Date : 2016/7/18
 Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11340.00	H	Peak	30.71	18.44	49.16	74	-24.84
11340.00	H	Average	21.20	18.44	39.64	54	-14.36

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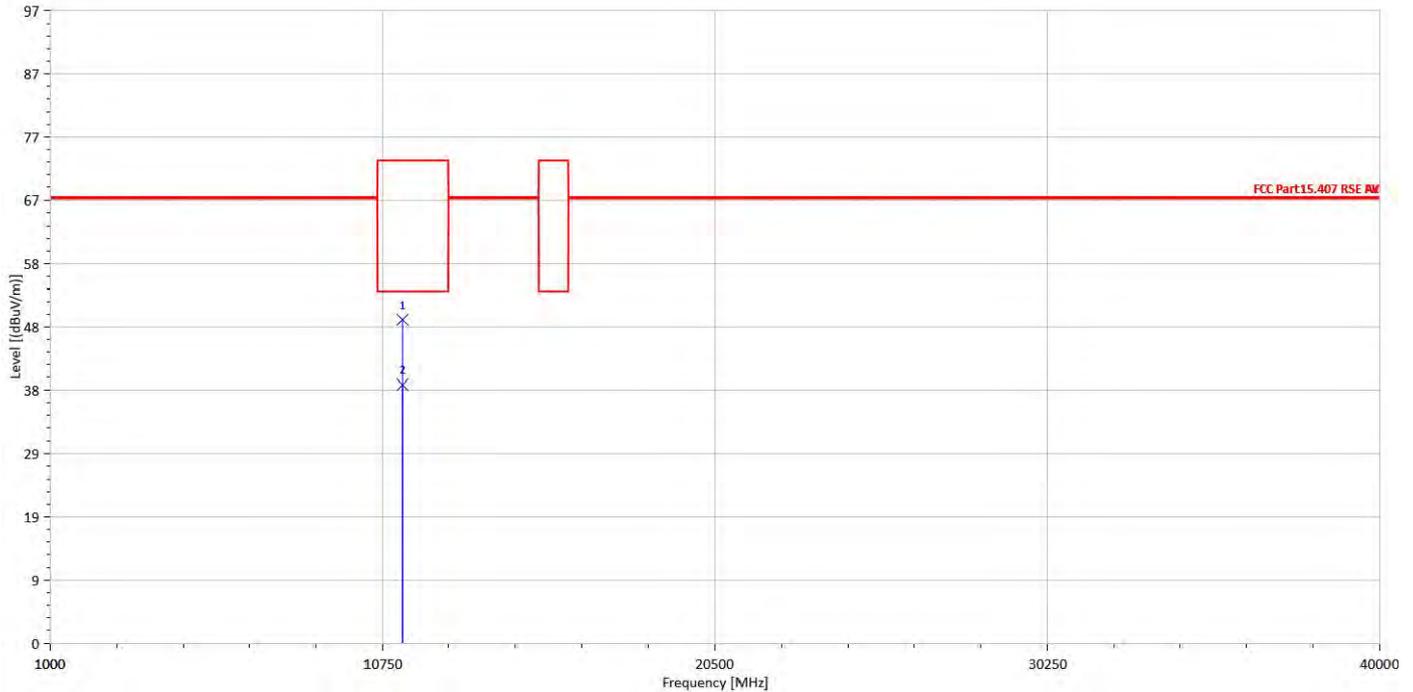
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Operation Mode : 802.11n40 Test Date : 2016/7/18
 Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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	31.20	18.44	49.64	74	-24.36
11340.00	H	Average	21.21	18.44	39.65	54	-14.35

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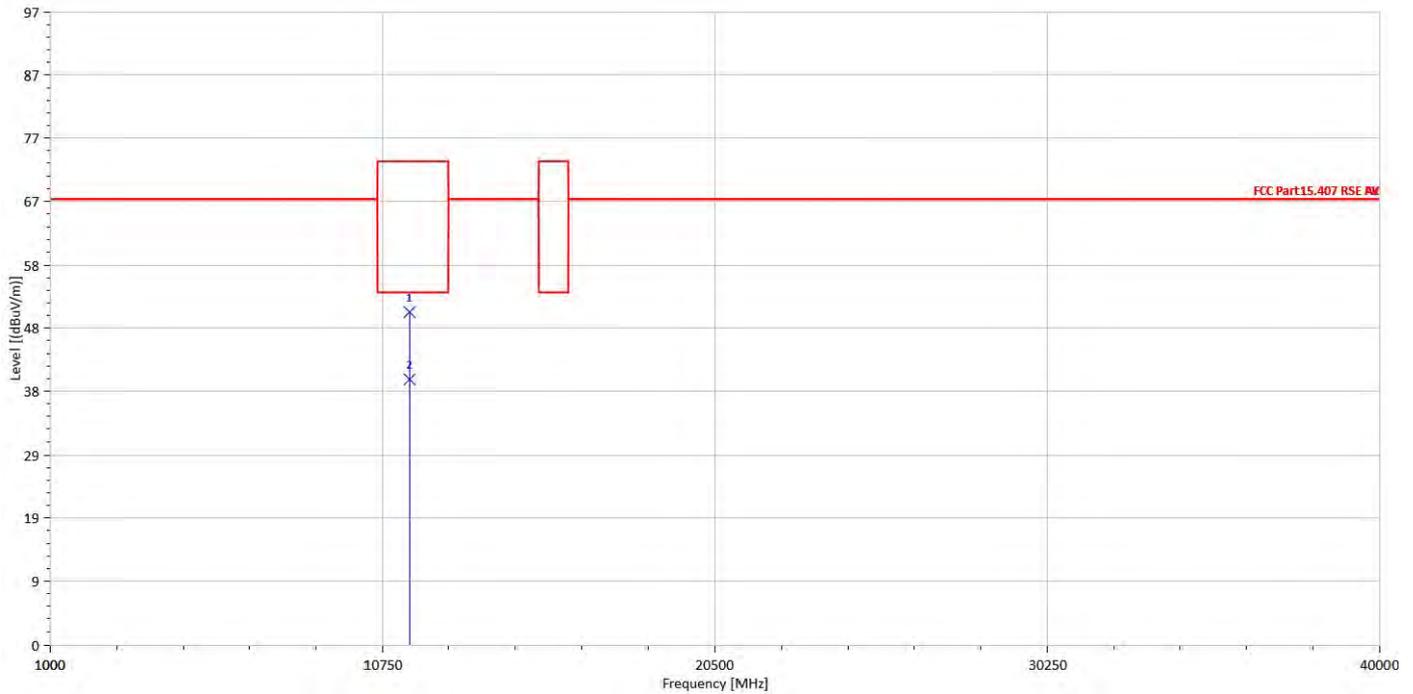
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode :	802.11n40	Test Date :	2016/7/18
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx Ch Low	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11550.00	H	Peak	31.68	19.28	50.96	74	-23.04
11550.00	H	Average	21.39	19.28	40.67	54	-13.33

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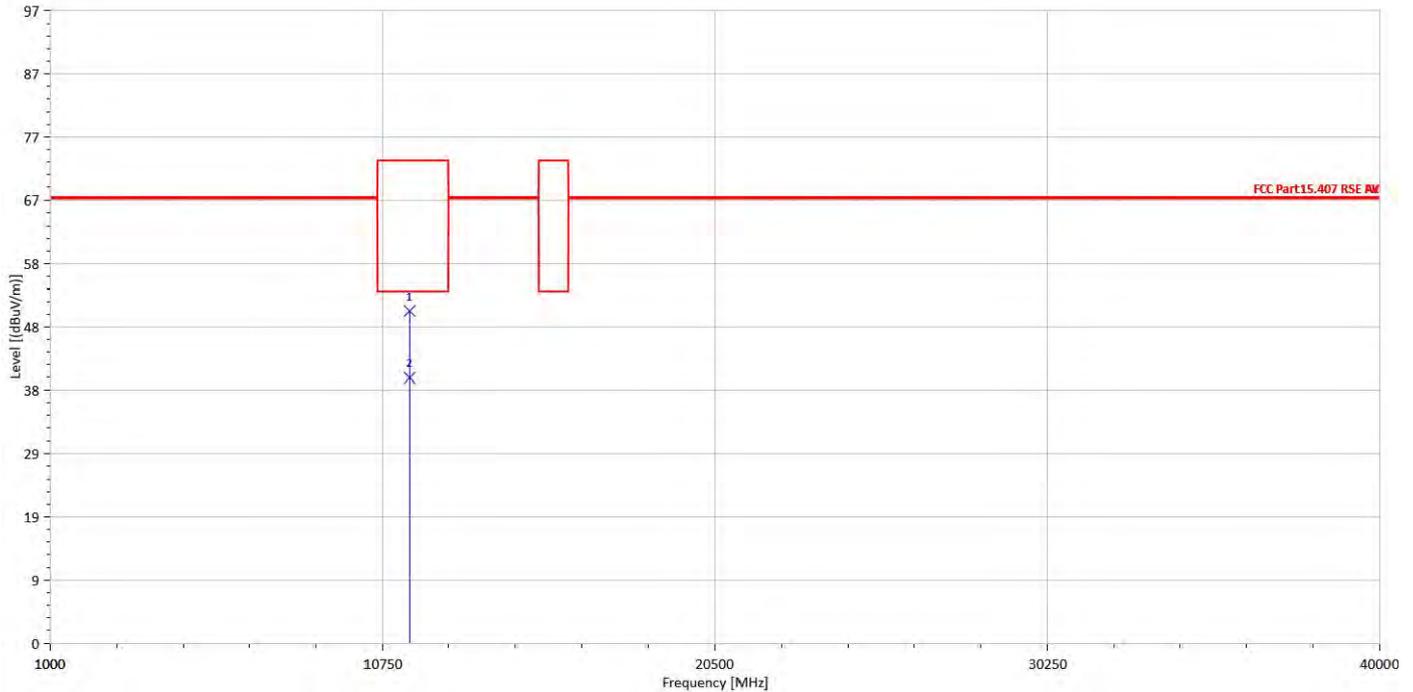
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Operation Mode : 802.11n40 Test Date : 2016/7/18
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11550.00	H	Peak	31.70	19.28	50.98	74	-23.02
11550.00	H	Average	21.40	19.28	40.68	54	-13.32

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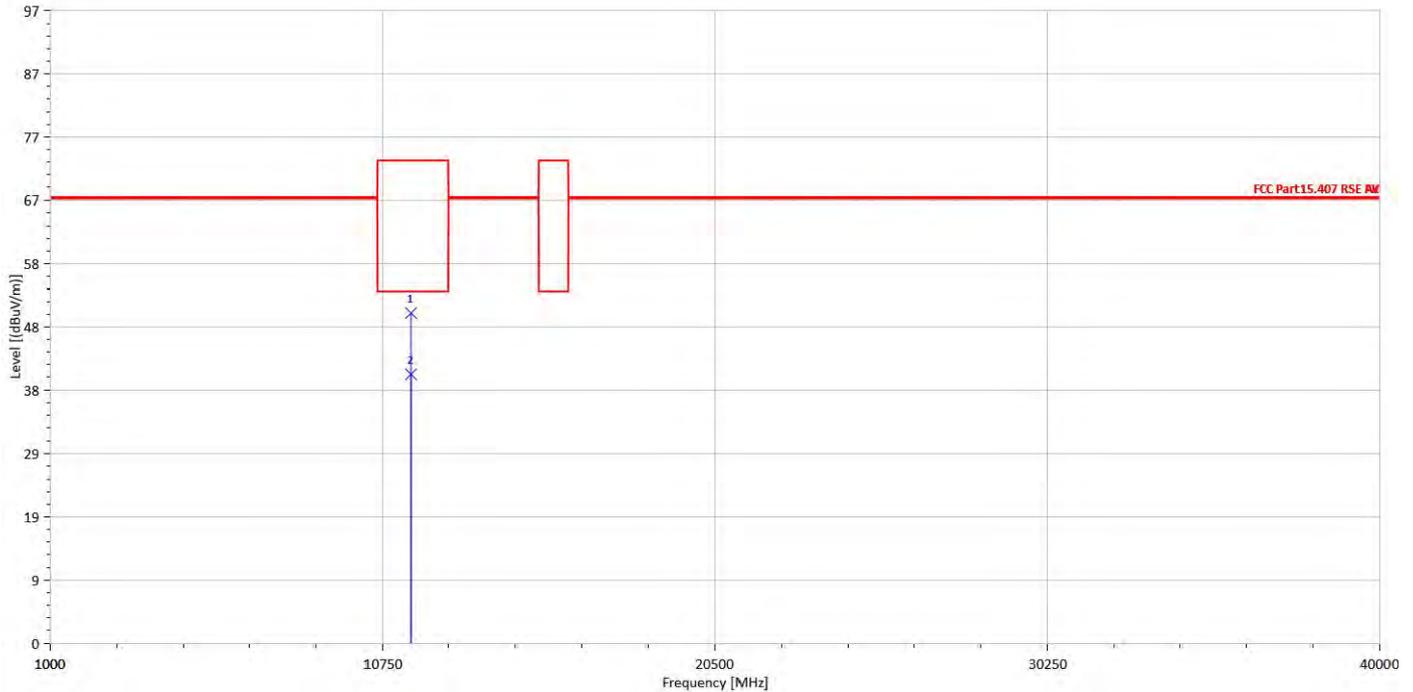
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Operation Mode : 802.11n40 Test Date : 2016/7/18
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11590.00	H	Peak	30.81	19.85	50.66	74	-23.34
11590.00	H	Average	21.35	19.85	41.20	54	-12.80

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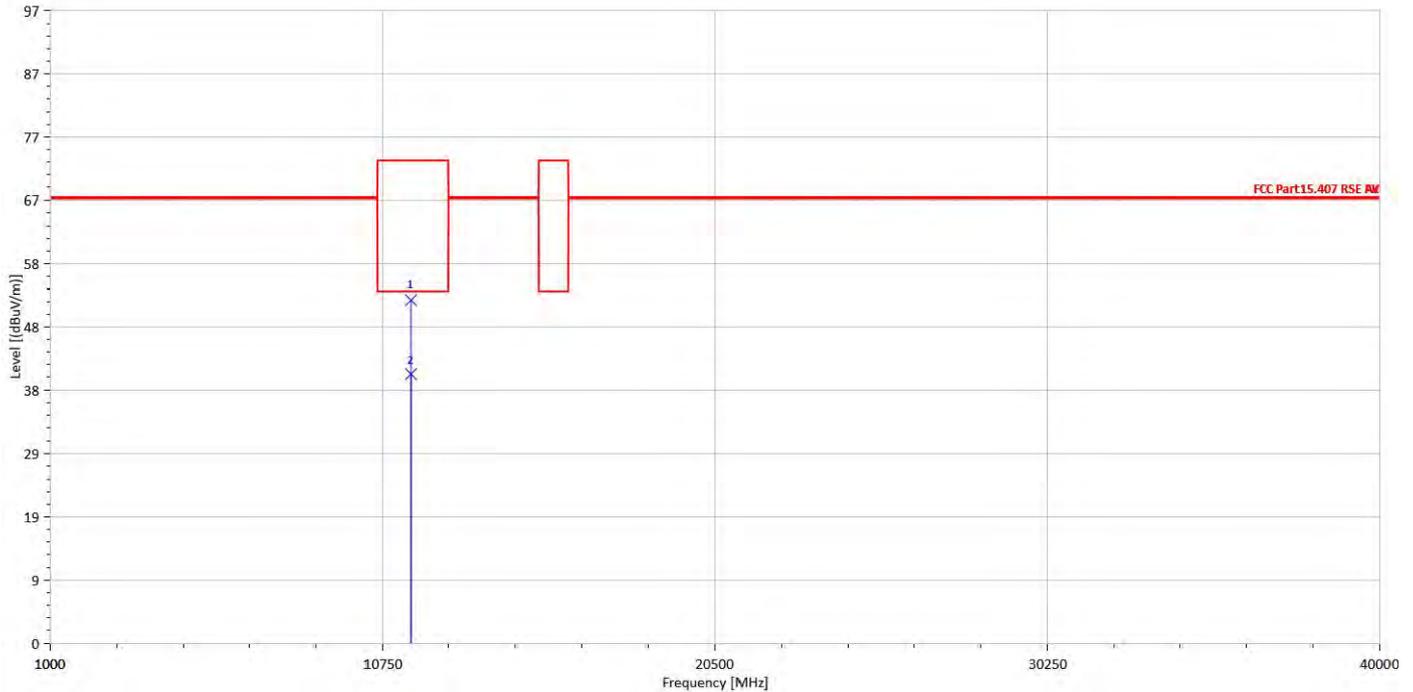
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Operation Mode : 802.11n40 Test Date : 2016/7/18
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	H	Peak	32.81	19.85	52.66	74	-21.34
11590.00	H	Average	21.37	19.85	41.22	54	-12.78

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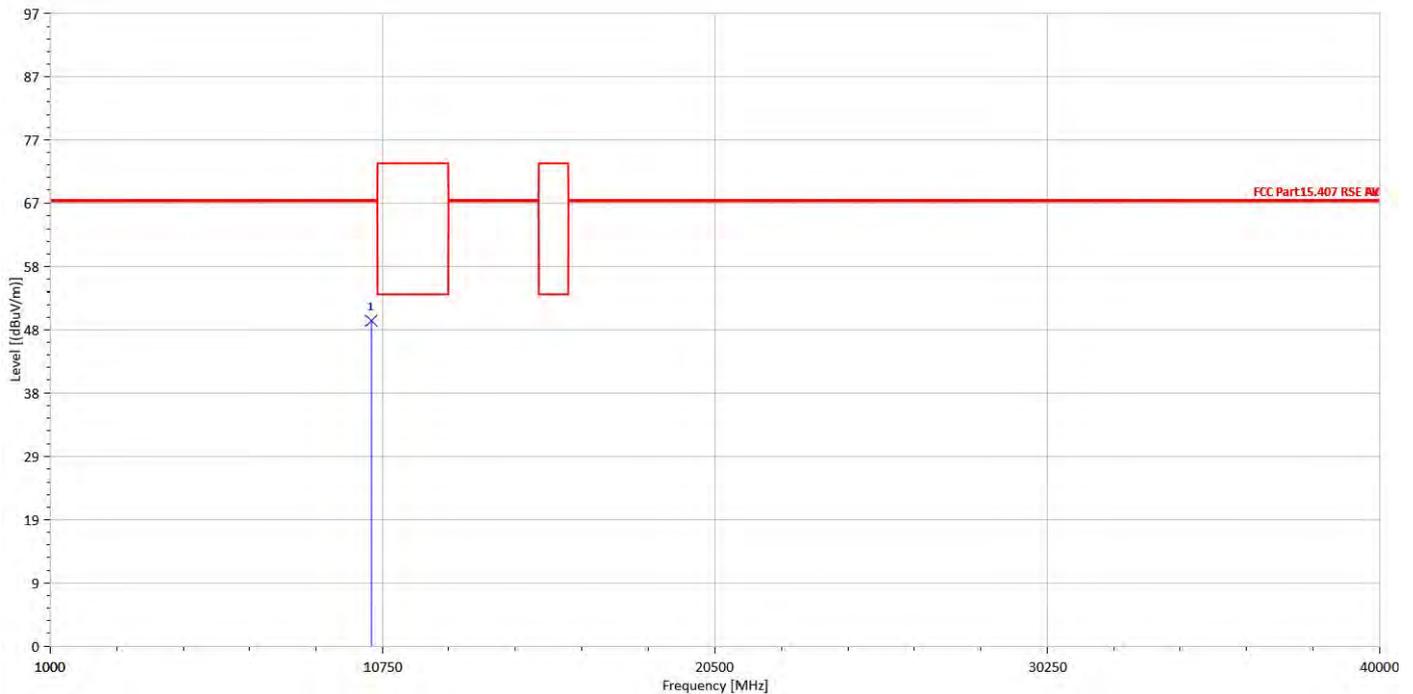
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode :	802.11ac80	Test Date :	2016/7/18
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx Ch Low	Test Engineer :	Pony
EUT Pol. :	H	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	31.87	18.05	49.92	68.3	-18.38

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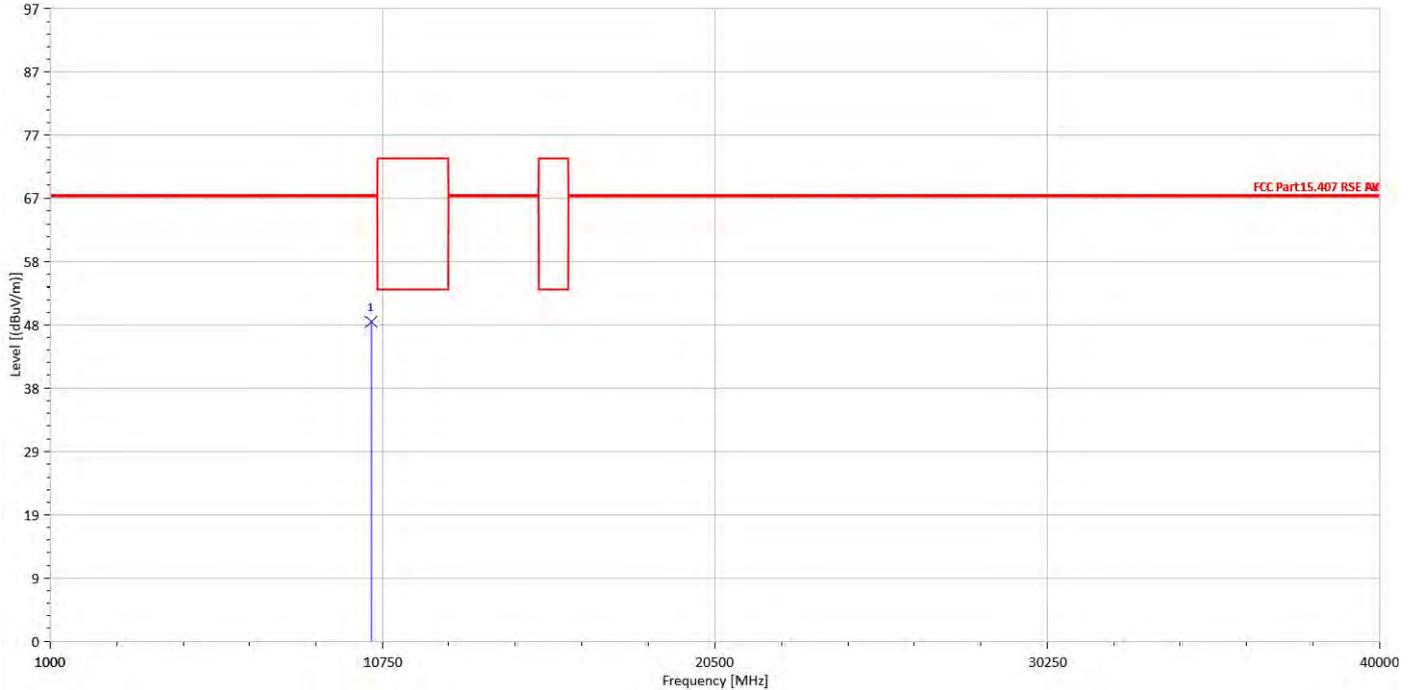
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Operation Mode :	802.11ac80	Test Date :	2016/7/18
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx Ch Low	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



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	30.96	18.05	49.00	68.3	-19.30

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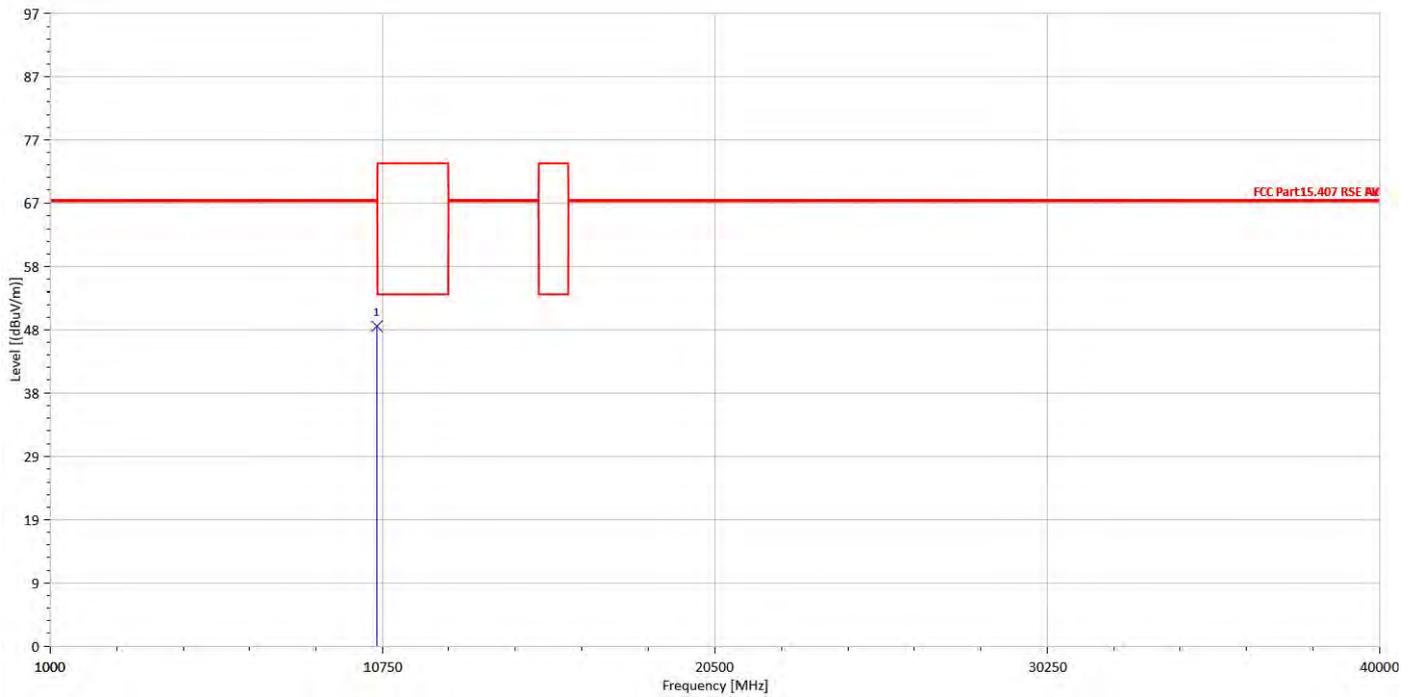
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Mode :	802.11ac80	Test Date :	2016/7/18
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx Ch Low	Test Engineer :	Pony
EUT Pol. :	H	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	31.70	17.37	49.07	68.3	-19.23

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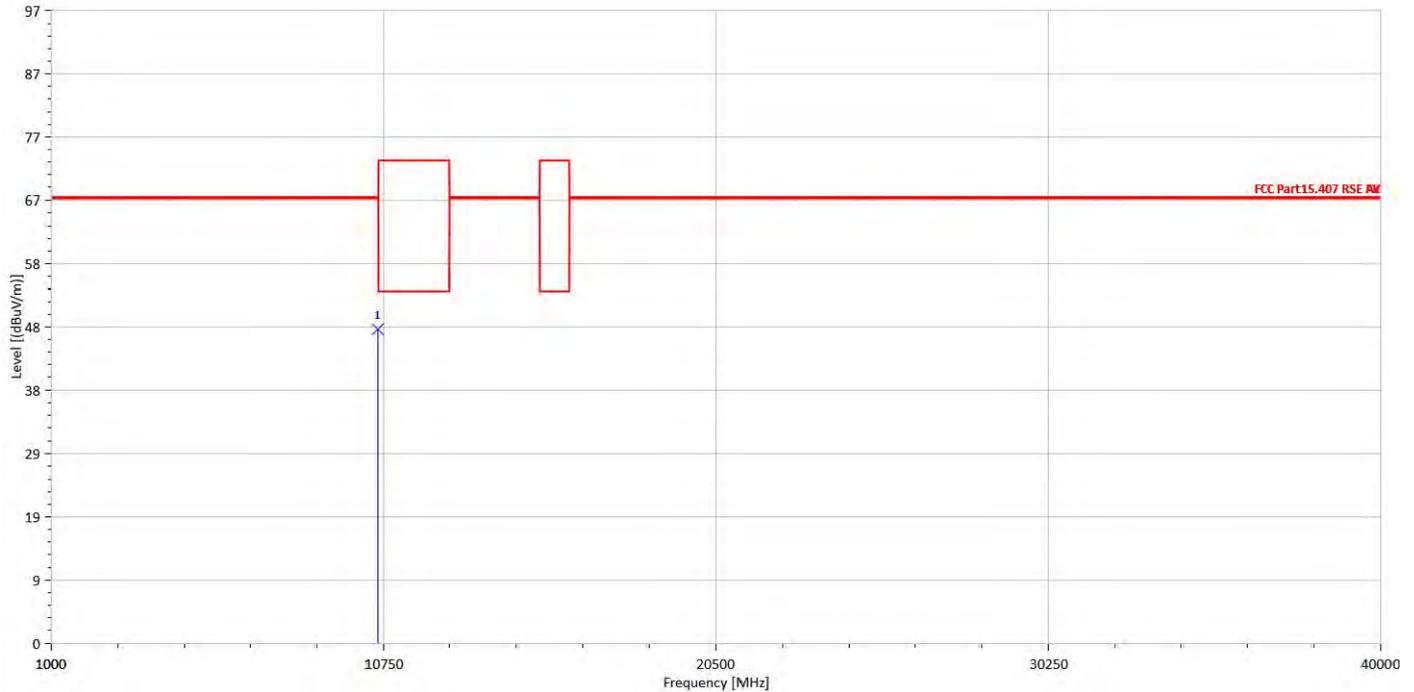
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Operation Mode :	802.11ac80	Test Date :	2016/7/18
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx Ch Low	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
10580.00	H	Peak	30.77	17.37	48.14	68.3	-20.16

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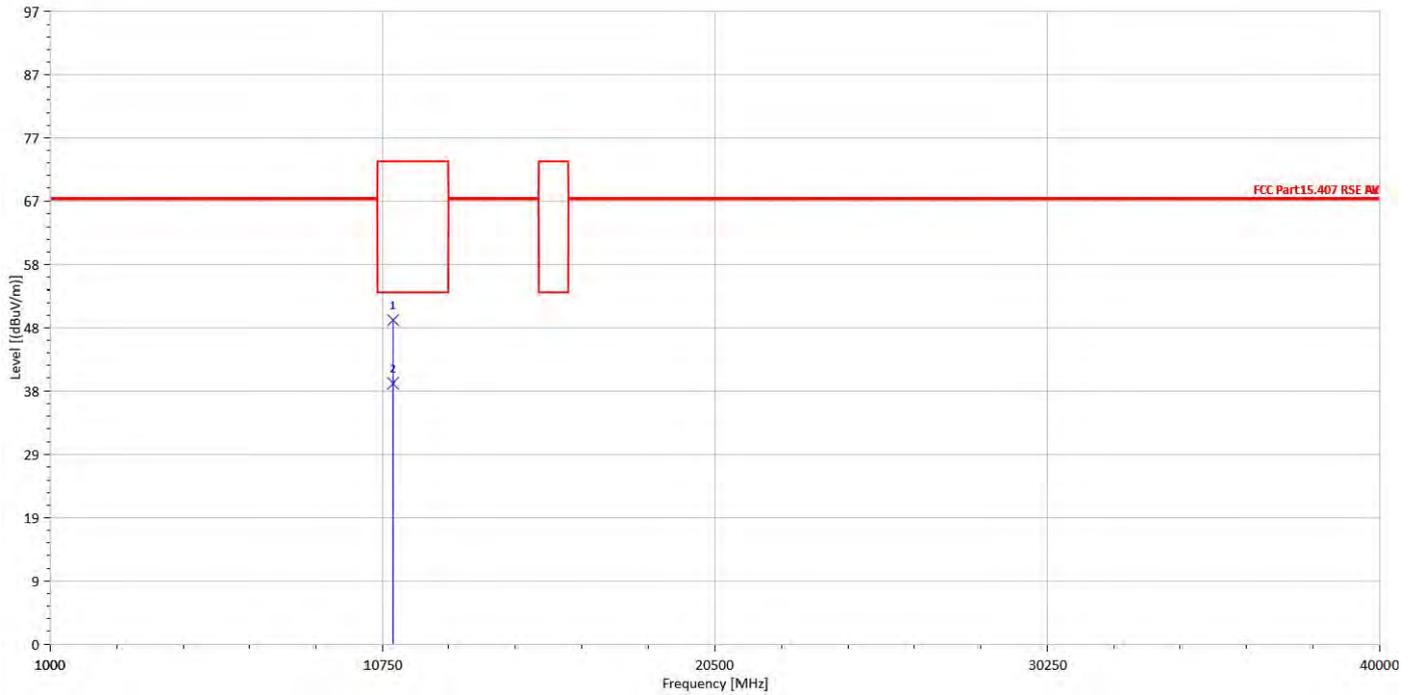
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Mode :	802.11ac80	Test Date :	2016/7/18
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx Ch Low	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
11060.00	H	Peak	30.79	18.91	49.71	74	-24.29
11060.00	H	Average	21.07	18.91	39.98	54	-14.02

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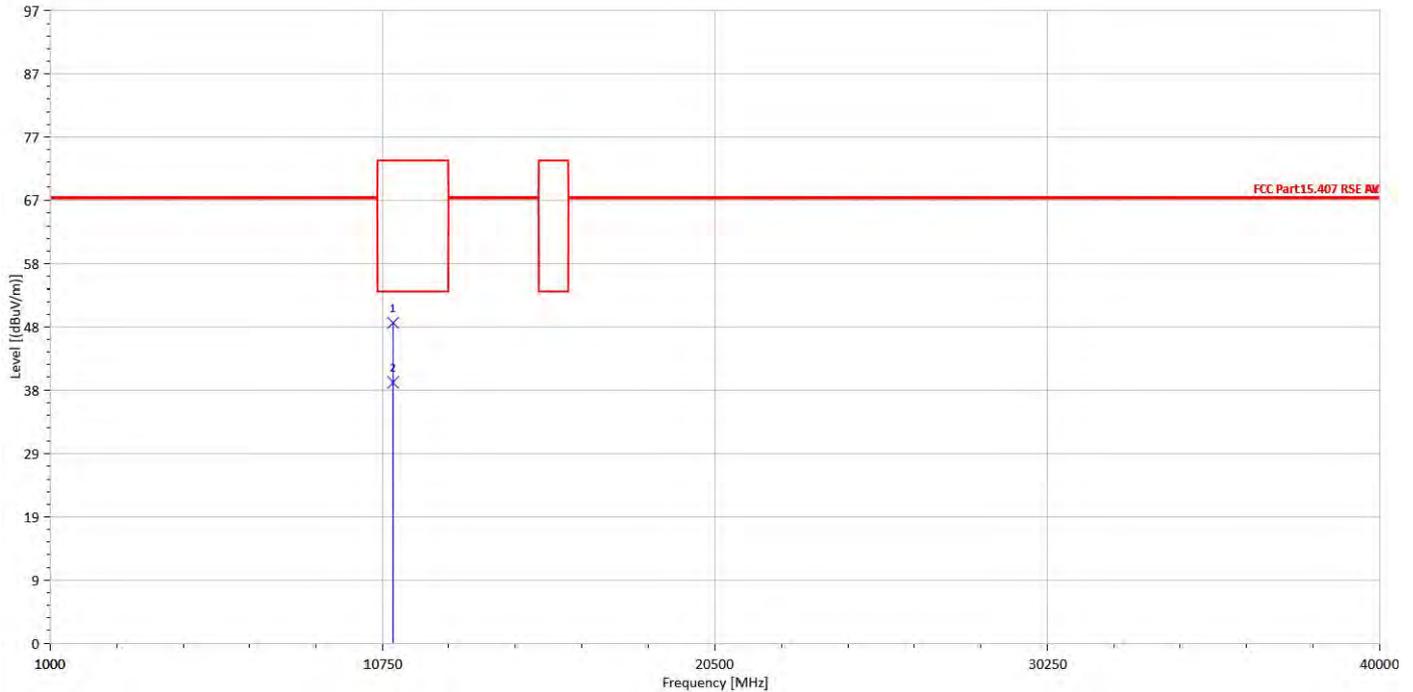
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Operation Mode :	802.11ac80	Test Date :	2016/7/18
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx Ch Low	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11060.00	H	Peak	30.24	18.91	49.15	74	-24.85
11060.00	H	Average	21.09	18.91	40.00	54	-14.00

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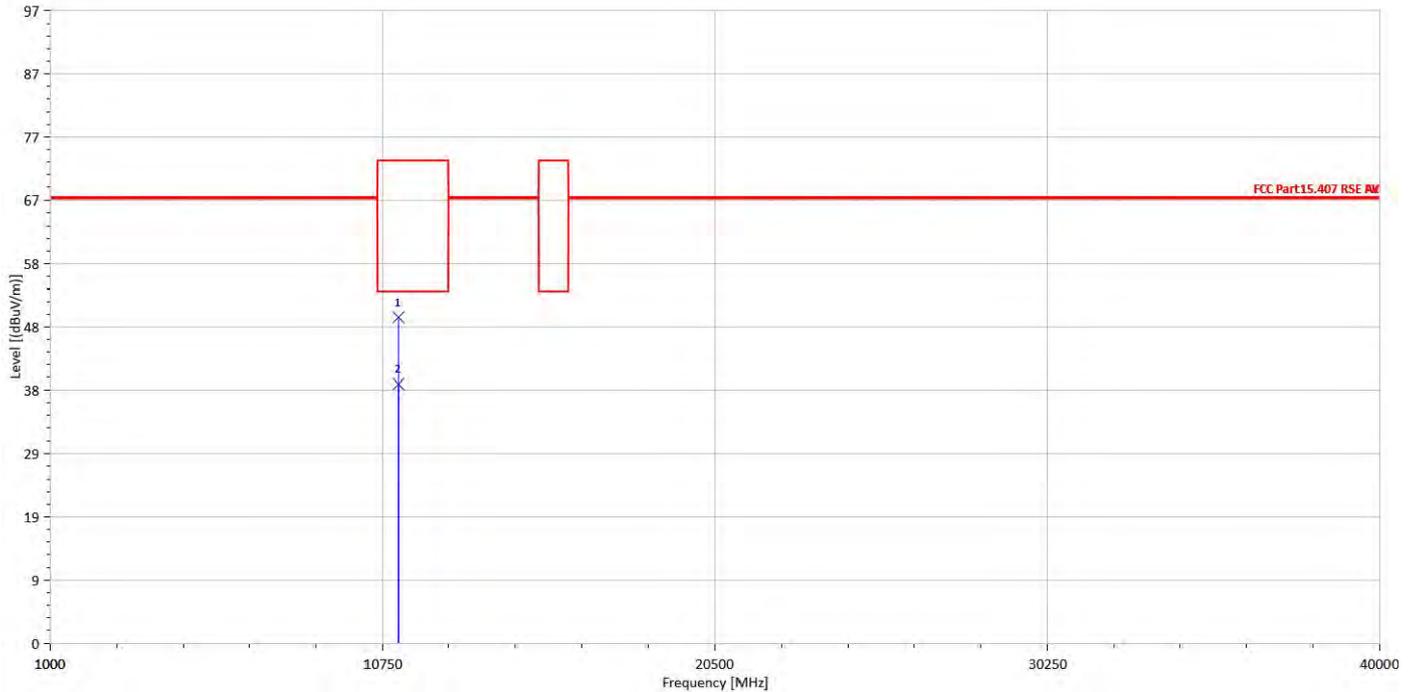
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Operation Mode : 802.11ac80 Test Date : 2016/7/18
 Fundamental Frequency : 5610 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11220.00	H	Peak	31.37	18.63	50.00	74	-24.00
11220.00	H	Average	21.13	18.63	39.76	54	-14.24

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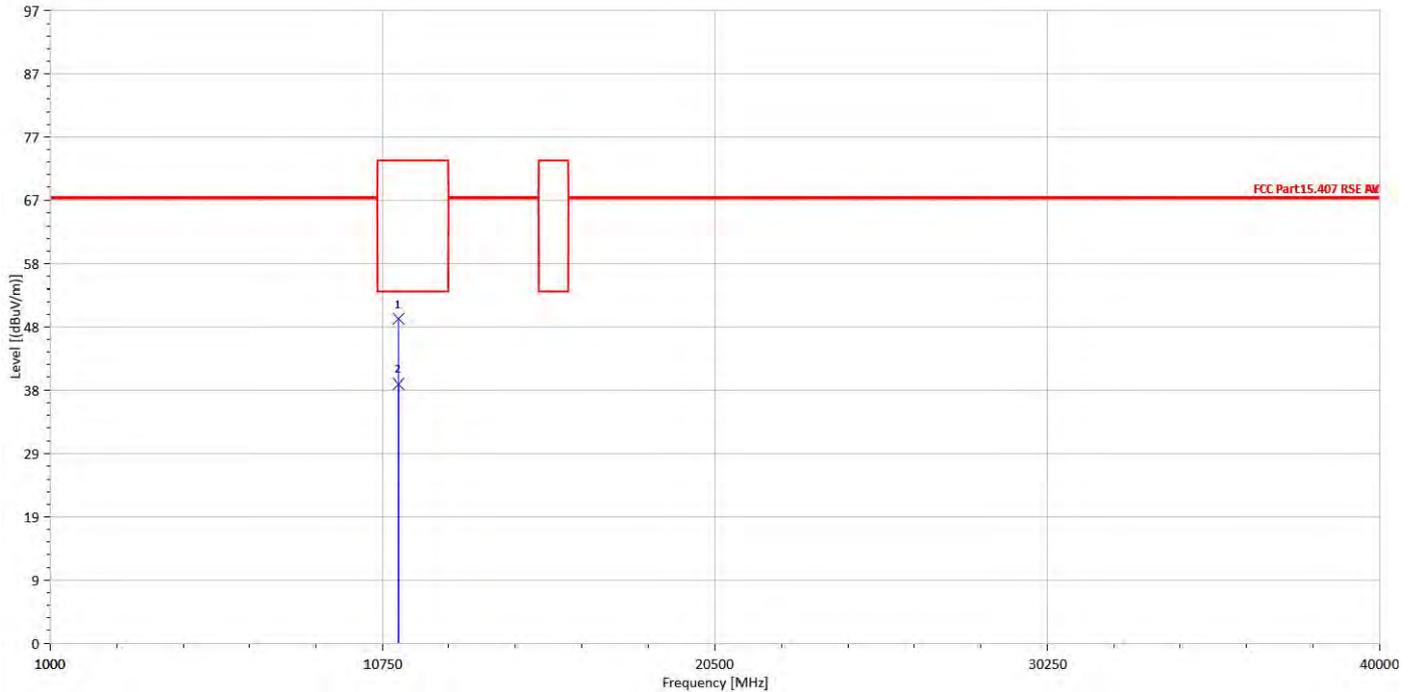
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Operation Mode : 802.11ac80 Test Date : 2016/7/18
 Fundamental Frequency : 5610 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx Ch Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11220.00	H	Peak	31.15	18.63	49.78	74	-24.22
11220.00	H	Average	21.14	18.63	39.77	54	-14.23

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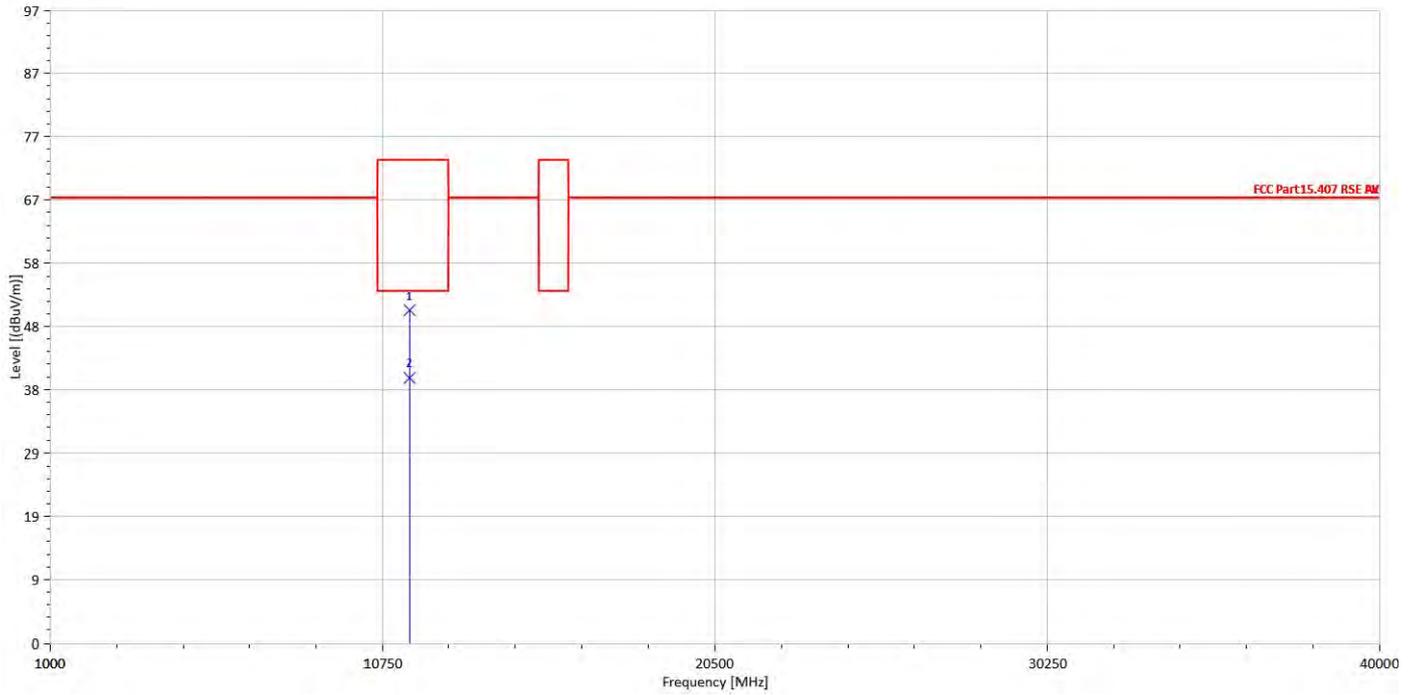
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
11550.00	H	Peak	31.73	19.28	51.02	74	-22.98
11550.00	H	Average	21.39	19.28	40.67	54	-13.33

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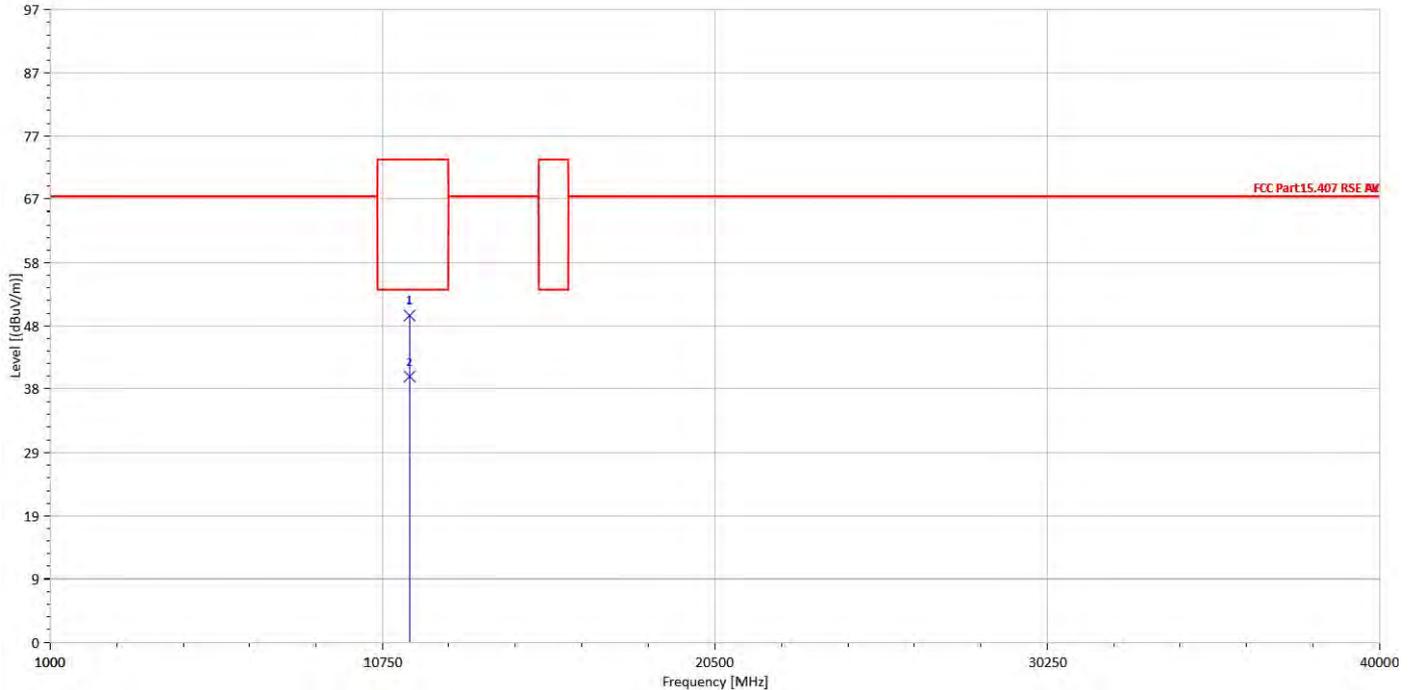
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Operation Mode :	802.11ac80	Test Date :	2016/7/18
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx Ch Low	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
11550.00	H	Peak	30.86	19.28	50.14	74	-23.86
11550.00	H	Average	21.41	19.28	40.69	54	-13.31

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Band edge falling to restricted band

802.11a mode

Operation Mode : 802.11a Test Date : 2016/7/17
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5150.00	E	Peak	43.16	10.78	53.94	74	-20.06
5150.00	E	Average	31.87	10.78	42.65	54	-11.35

Operation Mode : 802.11a Test Date : 2016/7/17
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5150.00	E	Peak	42.24	10.78	53.02	74	-20.98
5150.00	E	Average	32.04	10.78	42.82	54	-11.18

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Operation Mode : 802.11a Test Date : 2016/7/17
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5350.00	E	Peak	43.87	11.67	55.54	74	-18.46
5350.00	E	Average	32.07	11.67	43.74	54	-10.26

Operation Mode : 802.11a Test Date : 2016/7/17
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5350.00	E	Peak	43.73	11.67	55.40	74	-18.60
5350.00	E	Average	32.03	11.67	43.70	54	-10.30

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Operation Mode : 802.11a Test Date : 2016/7/17
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5460.00	E	Peak	43.81	11.66	55.47	74	-18.53
5460.00	E	Average	32.08	11.66	43.74	54	-10.26

Operation Mode : 802.11a Test Date : 2016/7/17
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5460.00	E	Peak	43.69	11.66	55.35	74	-18.65
5460.00	E	Average	32.09	11.66	43.75	54	-10.25

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Operation Mode : 802.11a Test Date : 2016/7/17
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch Low RSE Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5470.00	E	Peak	43.89	11.57	55.46	68.3	-12.84

Operation Mode : 802.11a Test Date : 2016/7/17
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch Low RSE Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5466.44	S	Peak	46.03	11.60	57.64	68.3	-10.66
5470.00	S	Peak	44.36	11.57	55.93	68.3	-12.37

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Operation Mode : 802.11a Test Date : 2016/7/17
 Fundamental Frequency : 5470 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch High Test Engineer : Pony
 EUT Pol. : H 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
5725.00	E	Peak	43.28	12.01	55.29	68.3	-13.01
5725.76	S	Peak	44.92	12.01	56.93	68.3	-11.37

Operation Mode : 802.11a Test Date : 2016/7/17
 Fundamental Frequency : 5470 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch High Test Engineer : Pony
 EUT Pol. : H 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
5725.00	E	Peak	45.22	12.01	57.23	68.3	-11.07

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Operation Mode : 802.11a Test Date : 2016/7/17
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch Low Test Engineer : Pony
 EUT Pol. : H 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
5659.10	S	Peak	43.84	11.97	55.81	74.96407	-19.15
5725.00	E	Peak	52.52	12.01	64.53	122.23	-57.70

Operation Mode : 802.11a Test Date : 2016/7/17
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch Low Test Engineer : Pony
 EUT Pol. : H 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
5655.80	S	Peak	43.89	12.01	55.89	72.52186	-16.63
5725.00	E	Peak	55.00	12.01	67.01	122.23	-55.22

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Operation Mode : 802.11a Test Date : 2016/7/17
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch High Test Engineer : Pony
 EUT Pol. : H 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
5850.00	E	Peak	42.85	12.15	55.00	122.23	-67.23
5903.30	S	Peak	42.61	12.40	55.01	84.28815	-29.28

Operation Mode : 802.11a Test Date : 2016/7/17
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch High Test Engineer : Pony
 EUT Pol. : H 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
5850.00	E	Peak	44.20	12.15	56.35	122.23	-65.88
5902.70	S	Peak	43.26	12.39	55.65	84.73186	-29.08

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802.11n20 HT mode

Operation Mode : 802.11n20 Test Date : 2016/7/17
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5150.00	E	Peak	42.03	10.78	52.81	74	-21.19
5150.00	E	Average	31.80	10.78	42.58	54	-11.42

Operation Mode : 802.11n20 Test Date : 2016/7/17
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5150.00	E	Peak	42.68	10.78	53.46	74	-20.54
5150.00	E	Average	31.78	10.78	42.56	54	-11.44

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Operation Mode : 802.11n20 Test Date : 2016/7/17
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5350.00	E	Peak	42.43	11.67	54.10	74	-19.90
5350.00	E	Average	31.84	11.67	43.51	54	-10.49

Operation Mode : 802.11n20 Test Date : 2016/7/17
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5350.00	E	Peak	43.01	11.67	54.69	74	-19.31
5350.00	E	Average	31.81	11.67	43.48	54	-10.52

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Operation Mode : 802.11n20 Test Date : 2016/7/17
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5460.00	E	Peak	43.12	11.66	54.78	74	-19.22
5460.00	E	Average	31.89	11.66	43.55	54	-10.45

Operation Mode : 802.11n20 Test Date : 2016/7/17
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5460.00	E	Peak	42.36	11.66	54.02	74	-19.98
5460.00	E	Average	31.96	11.66	43.62	54	-10.38

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Operation Mode : 802.11n20 Test Date : 2016/7/17
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch Low RSE Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5470.00	E	Peak	43.18	11.57	54.75	68.3	-13.55

Operation Mode : 802.11n20 Test Date : 2016/7/17
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch Low RSE Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5468.60	S	Peak	44.25	11.58	55.83	68.3	-12.47
5470.00	E	Peak	42.69	11.57	54.26	68.3	-14.04

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Operation Mode :	802.11n20	Test Date :	2016/7/17
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE Ch High	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5725.00	E	Peak	44.48	12.01	56.49	68.3	-11.81

Operation Mode :	802.11n20	Test Date :	2016/7/17
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE Ch High	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5725.00	E	Peak	43.66	12.01	55.67	68.3	-12.63
5727.32	S	Peak	44.03	12.01	56.03	68.3	-12.27

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 Operation Band : BE Ch Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5656.60	S	Peak	42.92	12.00	54.92	73.11407	-18.19
5725.00	E	Peak	51.81	12.01	63.82	122.23	-58.41

Operation Mode : 802.11n20 Test Date : 2016/7/17
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5655.30	S	Peak	43.39	12.01	55.40	72.15186	-16.75
5725.00	E	Peak	56.26	12.01	68.27	122.23	-53.96

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Operation Mode : 802.11n20 Test Date : 2016/7/17
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch High Test Engineer : Pony
 EUT Pol. : H 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
5850.00	E	Peak	44.56	12.15	56.71	122.23	-65.52
5903.70	S	Peak	42.59	12.41	55.00	83.99186	-29.00

Operation Mode : 802.11n20 Test Date : 2016/7/17
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch High Test Engineer : Pony
 EUT Pol. : H 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
5850.00	E	Peak	43.70	12.15	55.85	122.23	-66.38
5903.20	S	Peak	43.09	12.40	55.49	84.36186	-28.87

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802.11n40 HT mode

Operation Mode : 802.11n40 Test Date : 2016/7/17
 Fundamental Frequency : 5190 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch Low Test Engineer : Pony
 EUT Pol. : H 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
5130.16	S	Peak	46.29	10.66	56.95	74	-17.05
5130.16	S	Average	31.76	10.66	42.42	54	-11.58
5150.00	E	Peak	44.91	10.78	55.69	74	-18.31
5150.00	E	Average	32.47	10.78	43.25	54	-10.75

Operation Mode : 802.11n40 Test Date : 2016/7/17
 Fundamental Frequency : 5190 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch Low Test Engineer : Pony
 EUT Pol. : H 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
5130.40	S	Peak	47.49	10.66	58.15	74	-15.85
5130.40	S	Average	31.81	10.66	42.47	54	-11.53
5150.00	E	Peak	45.36	10.78	56.14	74	-17.86
5150.00	E	Average	32.75	10.78	43.53	54	-10.47

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Operation Mode : 802.11n40 Test Date : 2016/7/17
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch High Test Engineer : Pony
 EUT Pol. : H 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	42.86	11.67	54.54	74	-19.46
5350.00	E	Average	31.94	11.67	43.61	54	-10.39

Operation Mode : 802.11n40 Test Date : 2016/7/17
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch High Test Engineer : Pony
 EUT Pol. : H 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
5350.00	E	Peak	42.95	11.67	54.62	74	-19.38
5350.00	E	Average	31.84	11.67	43.51	54	-10.49
5369.84	S	Peak	46.15	11.54	57.69	74	-16.31
5369.84	S	Average	31.82	11.54	43.36	54	-10.64

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Operation Mode : 802.11n40 Test Date : 2016/7/17
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch Low Test Engineer : Pony
 EUT Pol. : H 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
5449.68	S	Peak	45.42	11.77	57.19	74	-16.81
5449.68	S	Average	31.89	11.77	43.66	54	-10.34
5460.00	E	Peak	43.81	11.66	55.47	74	-18.53
5460.00	E	Average	31.94	11.66	43.60	54	-10.40

Operation Mode : 802.11n40 Test Date : 2016/7/17
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch Low Test Engineer : Pony
 EUT Pol. : H 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
5449.92	S	Peak	47.55	11.77	59.31	74	-14.69
5449.92	S	Average	32.01	11.77	43.78	54	-10.22
5460.00	E	Peak	46.30	11.66	57.95	74	-16.05
5460.00	E	Average	32.15	11.66	43.81	54	-10.19

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Operation Mode : 802.11n40 Test Date : 2016/7/17
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch Low RSE Test Engineer : Pony
 EUT Pol. : H 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
5469.60	S	Peak	49.33	11.57	60.90	68.3	-7.40
5470.00	E	Peak	46.32	11.57	57.89	68.3	-10.41

Operation Mode : 802.11n40 Test Date : 2016/7/17
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch Low RSE Test Engineer : Pony
 EUT Pol. : H 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
5469.84	S	Peak	55.03	11.57	66.60	68.3	-1.70
5470.00	E	Peak	50.34	11.57	61.91	68.3	-6.39

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Operation Mode :	802.11n40	Test Date :	2016/7/17
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE Ch High	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5725.00	E	Peak	42.35	12.01	54.36	68.3	-13.94

Operation Mode :	802.11n40	Test Date :	2016/7/17
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE Ch High	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5725.00	E	Peak	42.02	12.01	54.03	68.3	-14.27
5729.84	S	Peak	43.98	12.00	55.98	68.3	-12.32

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Operation Mode : 802.11n40 Test Date : 2016/7/17
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch Low Test Engineer : Pony
 EUT Pol. : H 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
5666.30	S	Peak	43.61	11.91	55.52	80.29186	-24.77
5725.00	E	Peak	52.00	12.01	64.01	122.23	-58.22

Operation Mode : 802.11n40 Test Date : 2016/7/17
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch Low Test Engineer : Pony
 EUT Pol. : H 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
5666.10	S	Peak	42.81	11.92	54.72	80.14407	-25.42
5725.00	E	Peak	55.84	12.01	67.85	122.23	-54.38

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Operation Mode : 802.11n40 Test Date : 2016/7/17
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch High Test Engineer : Pony
 EUT Pol. : H 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
5850.00	E	Peak	41.69	12.15	53.84	122.23	-68.39
5884.60	S	Peak	42.41	12.28	54.68	98.12593	-43.44

Operation Mode : 802.11n40 Test Date : 2016/7/17
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch High Test Engineer : Pony
 EUT Pol. : H 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
5850.00	E	Peak	41.86	12.15	54.01	122.23	-68.22

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802.11ac80 VHT mode

Operation Mode : 802.11ac80 Test Date : 2016/7/17
 Fundamental Frequency : 5210 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5150.00	E	Peak	51.98	10.78	62.76	74	-11.24
5150.00	E	Average	31.92	10.78	42.70	54	-11.30

Operation Mode : 802.11ac80 Test Date : 2016/7/17
 Fundamental Frequency : 5210 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5150.00	E	Peak	51.87	10.78	62.65	74	-11.35
5150.00	E	Average	31.84	10.78	42.62	54	-11.38

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Operation Mode : 802.11ac80 Test Date : 2016/7/17
 Fundamental Frequency : 5290 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5350.00	E	Peak	50.79	11.67	62.47	74	-11.53
5350.00	E	Average	31.83	11.67	43.50	54	-10.50

Operation Mode : 802.11ac80 Test Date : 2016/7/17
 Fundamental Frequency : 5290 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5350.00	E	Peak	50.64	11.67	62.31	74	-11.69
5350.00	E	Average	31.79	11.67	43.46	54	-10.54

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Operation Mode : 802.11ac80 Test Date : 2016/7/17
 Fundamental Frequency : 5530 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5460.00	E	Peak	43.16	11.66	54.82	74	-19.18
5460.00	E	Average	31.86	11.66	43.52	54	-10.48

Operation Mode : 802.11ac80 Test Date : 2016/7/17
 Fundamental Frequency : 5530 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5460.00	E	Peak	42.94	11.66	54.60	74	-19.40
5460.00	E	Average	31.95	11.66	43.61	54	-10.39

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Operation Mode : 802.11ac80 Test Date : 2016/7/17
 Fundamental Frequency : 5530 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch Low RSE Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5470.00	E	Peak	49.18	11.57	60.75	68.3	-7.55

Operation Mode : 802.11ac80 Test Date : 2016/7/17
 Fundamental Frequency : 5530 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch Low RSE Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5470.00	E	Peak	54.15	11.57	65.72	68.3	-2.58

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Operation Mode : 802.11ac80 Test Date : 2016/7/17
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5686.00	S	Peak	43.31	12.17	55.47	94.87	-39.40
5725.00	E	Peak	42.50	12.01	54.51	122.23	-67.72

Operation Mode : 802.11ac80 Test Date : 2016/7/17
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5686.60	S	Peak	42.57	12.18	54.75	95.31408	-40.56
5725.00	E	Peak	43.12	12.01	55.13	122.23	-67.10

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Operation Mode : 802.11ac80 Test Date : 2016/7/17
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5850.00	E	Peak	42.00	12.15	54.15	122.23	-68.08

Operation Mode : 802.11ac80 Test Date : 2016/7/17
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE Ch High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5850.00	E	Peak	41.86	12.15	54.01	122.23	-68.22
5894.28	S	Peak	42.60	12.31	54.91	90.96296	-36.05

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12. TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

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

12.2 Result

No non-compliance noted:

Refer to the theory of operation.

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13. FREQUENCY STABILITY

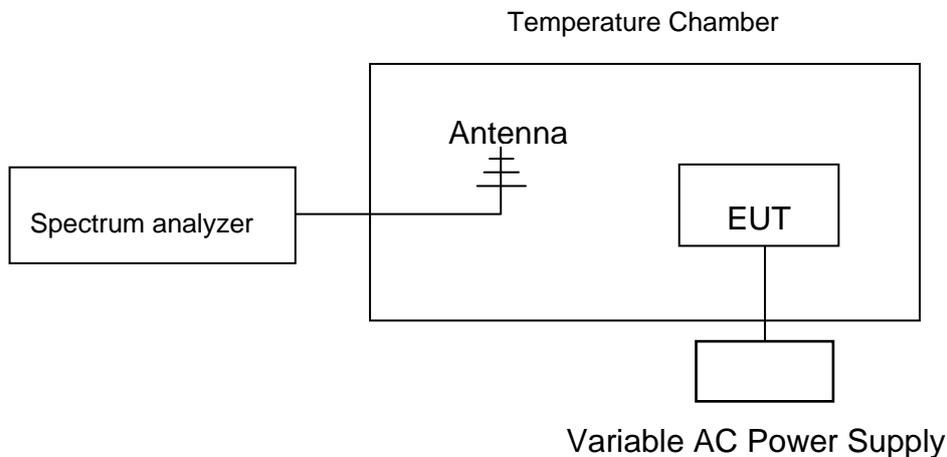
13.1 Standard Applicable

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

13.2 Measurement Procedure

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

13.3 Test SET-UP



13.4 Measurement Equipment Used:

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

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13.5 Measurement Result

Operation Mode	802.11 a	Test Date	2016.07.17
Temperature	:26 °C	Test By	Enzo
Humidity	:59 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	4.4V	36	5180	5,180.00026	-0.00000005
		44	5220	5,220.01669	-0.00000320
		48	5240	5,239.98526	0.00000281
		52	5260	5,259.97024	0.00000566
		60	5300	5,299.97171	0.00000534
		64	5320	5,319.97161	0.00000534
		100	5500	5,499.97019	0.00000542
		116	5580	5,580.00732	-0.00000131
		140	5700	5,699.96854	0.00000552
		149	5745	5,744.98257	0.00000303
		157	5785	5,784.98277	0.00000298
		165	5825	5,824.98206	0.00000308
	3.6V	36	5180	5,180.00151	-0.00000029
		44	5220	5,220.01597	-0.00000306
		48	5240	5,239.98559	0.00000275
		52	5260	5,259.97056	0.00000560
		60	5300	5,299.97034	0.00000560
		64	5320	5,319.97060	0.00000553
		100	5500	5,499.96924	0.00000559
		116	5580	5,580.00648	-0.00000116
		140	5700	5,699.96937	0.00000537
		149	5745	5,744.98261	0.00000303
		157	5785	5,784.98276	0.00000298
		165	5825	5,824.98204	0.00000308

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25 °C	3.85V	36	5180	5,180.00124	-0.00000024
		44	5220	5,220.01514	-0.00000290
		48	5240	5,239.98511	0.00000284
		52	5260	5,259.96987	0.00000573
		60	5300	5,299.96981	0.00000570
		64	5320	5,319.96979	0.00000568
		100	5500	5,499.96874	0.00000568
		116	5580	5,580.00631	-0.00000113
		140	5700	5,699.96749	0.00000570
		149	5745	5,744.98255	0.00000304
		157	5785	5,784.98277	0.00000298
		165	5825	5,824.98205	0.00000308

55 °C	4.4V	36	5180	5,179.99911	0.00000017
		44	5220	5,220.01344	-0.00000257
		48	5240	5,239.98486	0.00000289
		52	5260	5,259.96814	0.00000606
		60	5300	5,299.96873	0.00000590
		64	5320	5,319.96884	0.00000586
		100	5500	5,499.96862	0.00000571
		116	5580	5,580.00585	-0.00000105
		140	5700	5,699.96650	0.00000588
		149	5745	5,744.98256	0.00000304
		157	5785	5,784.98281	0.00000297
		165	5825	5,824.98207	0.00000308
	3.6V	36	5180	5,179.99816	0.00000036
		44	5220	5,220.01374	-0.00000263
		48	5240	5,239.98504	0.00000286
		52	5260	5,259.96908	0.00000588
		60	5300	5,299.96790	0.00000606
		64	5320	5,319.96827	0.00000596
		100	5500	5,499.96757	0.00000590
		116	5580	5,580.00455	-0.00000082
		140	5700	5,699.96649	0.00000588
		149	5745	5,744.98257	0.00000303
		157	5785	5,784.98277	0.00000298
		165	5825	5,824.98205	0.00000308

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Operation Mode	802.11 n_HT40	Test Date	2016.07.17
Temperature	:26 °C	Test By	Enzo
Humidity	:59 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	4.4V	38	5190	5,189.96478	0.00000679
		46	5230	5,230.00741	-0.00000142
		54	5270	5,269.97136	0.00000543
		62	5310	5,309.96148	0.00000725
		102	5510	5,509.96066	0.00000714
		110	5550	5,550.00820	-0.00000148
		134	5670	5,669.95754	0.00000749
		151	5755	5,754.97510	0.00000433
		159	5795	5,794.97510	0.00000430
	3.6V	38	5190	5,189.96464	0.00000681
		46	5230	5,230.00633	-0.00000121
		54	5270	5,269.97176	0.00000536
		62	5310	5,309.96094	0.00000736
		102	5510	5,509.95961	0.00000733
		110	5550	5,550.00749	-0.00000135
		134	5670	5,669.95686	0.00000761
		151	5755	5,754.97510	0.00000433
		159	5795	5,794.97510	0.00000430

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25 °C	3.85V	38	5190	5,189.96294	0.00000714
		46	5230	5,230.00592	-0.00000113
		54	5270	5,269.97051	0.00000560
		62	5310	5,309.96011	0.00000751
		102	5510	5,509.95911	0.00000742
		110	5550	5,550.00682	-0.00000123
		134	5670	5,669.95685	0.00000761
		151	5755	5,754.97510	0.00000433
		159	5795	5,794.97510	0.00000430
55 °C	4.4V	38	5190	5,189.96153	0.00000741
		46	5230	5,230.00456	-0.00000087
		54	5270	5,269.96857	0.00000596
		62	5310	5,309.95924	0.00000768
		102	5510	5,509.95741	0.00000773
		110	5550	5,550.00618	-0.00000111
		134	5670	5,669.95516	0.00000791
		151	5755	5,755.00000	0.00000000
		159	5795	5,794.97510	0.00000430
	3.6V	38	5190	5,189.96213	0.00000730
		46	5230	5,230.00564	-0.00000108
		54	5270	5,269.96951	0.00000579
		62	5310	5,309.95983	0.00000756
		102	5510	5,509.95808	0.00000761
		110	5550	5,550.00556	-0.00000100
		134	5670	5,669.95604	0.00000775
		151	5755	5,755.00000	0.00000000
		159	5795	5,794.97510	0.00000430

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Operation Mode	802.11 ac_VHT80	Test Date	2016.07.17
Temperature	:26 °C	Test By	Enzo
Humidity	:59 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	4.4V	42	5210	5,209.96104	0.00000748
		58	5290	5,289.96176	0.00000723
		106	5530	5,529.96058	0.00000713
		122	5610	5,609.95861	0.00000738
		155	5775	5,774.98779	0.00000211
	3.6V	42	5210	5,209.96113	0.00000746
		58	5290	5,289.96172	0.00000724
		106	5530	5,529.96038	0.00000716
		122	5610	5,609.95828	0.00000744
		155	5775	5,774.98733	0.00000219
25 °C	3.85V	42	5210	5,209.96059	0.00000756
		58	5290	5,289.95987	0.00000759
		106	5530	5,529.95875	0.00000746
		122	5610	5,609.95749	0.00000758
		155	5775	5,774.98725	0.00000221
55 °C	4.4V	42	5210	5,209.95950	0.00000777
		58	5290	5,289.95837	0.00000787
		106	5530	5,529.95841	0.00000752
		122	5610	5,609.95614	0.00000782
		155	5775	5,774.98710	0.00000223
	3.6V	42	5210	5,209.96026	0.00000763
		58	5290	5,289.95924	0.00000771
		106	5530	5,529.95706	0.00000776
		122	5610	5,609.95617	0.00000781
		155	5775	5,774.98609	0.00000241

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14. ANTENNA REQUIREMENT

14.1 Standard Applicable

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

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

14.2 Antenna Connected Construction

PIFA antenna designs are used.

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

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

~ End of Report ~

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