

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E AND REQUIREMENT OF

Product Name: abTouchPhone
Brand Name: 
Model No.: ASP-9100
Model Difference: N/A
FCC ID: HLZ-ASP9100
Report No.: ER/2016/50047
Issue Date: Sep. 06, 2016
FCC Rule Part: §15.407
Prepared for: Acer Incorporated
8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi,
New Taipei City 22181, Taiwan (R.O.C)
SGS Taiwan Ltd.
Electronics & Communication Laboratory
Prepared by: No.134, Wu Kung Road, New Taipei
Industrial Park, Wuku District, New Taipei
City, Taiwan 24803



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VERIFICATION OF COMPLIANCE

Applicant (FCC): Acer Incorporated
8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City 22181, Taiwan (R.O.C)

Product Name: abTouchPhone

Brand Name: 

Model No.: ASP-9100

Model Difference: N/A

FCC ID: HLZ-ASP9100

File Number: ER/2016/50047

Date of Test: May. 09, 2016 ~ Aug. 29, 2016

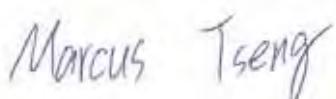
Date of EUT Received: May. 09, 2016

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:

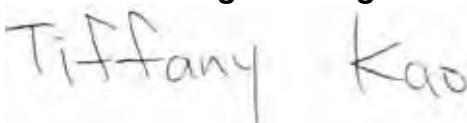


Date:

Sep. 06, 2016

Marcus Tseng / Sr. Engineer

Prepared By:

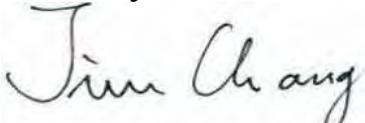


Date:

Sep. 06, 2016

Tiffany Kao / Clerk

Approved By:



Date:

Sep. 06, 2016

Jim Chang / Asst. Manager

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Revision History

| Report Number | Revision | Description | Issue Date |
|---------------|----------|------------------------------|---------------|
| ER/2016/50047 | Rev.00 | Initial creation of document | Sep. 06, 2016 |
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1. GENERAL INFORMATION

1.1 Product Description

General:

| | | |
|------------------------------|---|--|
| Product Name: | abTouchPhone | |
| Brand Name: |  | |
| Model No.: | ASP-9100 | |
| Model Difference: | N/A | |
| Product SW/HW version: | N/A / N/A | |
| Radio SW/HW version: | N/A / N/A | |
| Test SW Version: | N/A | |
| RF power setting in TEST SW: | N/A | |
| Power Supply: | 5Vdc from AC/DC Adapter Adapter: Model No.: ASSA53W-050300; Supplier: AQUIL STAR PRECISION INDUSTRIAL (SHENZHEN) CO., LTD. | |

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WLAN 5GHz:

| Wi-Fi | Frequency Range | Channels | Rated Power (Avg.) | Modulation Technology |
|--------------|-------------------------|----------|--------------------------------------|-----------------------|
| 11a | 5150~5250 | 4 | 10.47 dBm (Avg.) | OFDM |
| | 5250~5350 | 4 | 11.26 dBm (Avg.) | |
| | 5470~5725 | 12 | 10.47 dBm (Avg.) | |
| | 5725-5850 | 5 | 10.27 dBm | |
| 11n / ac_20M | HT / VHT20 5150~5250 | 4 | HT: 11.50 dBm (Avg.) (Worst Case) | OFDM |
| | HT / VHT20 5250~5350 | 4 | HT: 11.09 dBm (Avg.) (Worst Case) | |
| | HT / VHT20 5470~5725 | 11 | HT: 10.35 dBm (Avg.) (Worst Case) | |
| | HT / VHT20 5725-5850 | 5 | HT: 10.31 dBm (Worst Case) | |
| 11n / ac_40M | HT / VHT40 5150~5250 | 2 | HT: 10.58 dBm (Avg.) (Worst Case) | OFDM |
| | HT / VHT40 5250~5350 | 2 | HT: 9.28 dBm (Avg.) (Worst Case) | |
| | HT / VHT40 5470~5725 | 5 | HT: 10.19 dBm (Avg.) (Worst Case) | |
| | HT / VHT40 5725-5850 | 2 | HT: 10.59 dBm (Worst Case) | |
| 11ac_80M | VHT80 5150~5250 | 1 | 8.77 dBm (Avg.) | OFDM |
| | VHT80 5250~5350 | 1 | 10.71 dBm (Avg.) | |
| | VHT80 5470~5725 | 2 | 9.16 dBm (Avg.) | |
| | VHT80 5725-5850 | 1 | 10.37 dBm | |

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| | |
|---------------------|--|
| Antenna Designation | PIFA Antenna, Antenna: 5GHz Gain: 2.63dBi (5150MHz-5250MHz) 5GHz Gain: 2.28dBi (5250MHz-5350MHz) 5GHz Gain: 4.08dBi (5470MHz-5725MHz) 5GHz Gain: 3.63dBi (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 – 86.7Mbps 802.11 n_40 / ac VHT40MHz: 13.5 – 260Mbps 802.11 ac_80MHz: 29.3 – 433.3Mbps |

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1.2 Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is abTouchPhone, supporting Wi-Fi 802.11abgn/ac, Bluetooth, features, and below is details of information.

| Product Feature | |
|----------------------|---|
| Product Name: | abTouchPhone |
| Brand Name: |  |
| Model No.: | ASP-9100 |
| Model Difference: | N/A |
| FCC ID: | HLZ-ASP9100 |
| Bluetooth Version | V4.0 dual mode |
| Wi-Fi- Specification | 802.11a/b/g/n/ac |

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

ANSI C63.10:2013

Note:

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

1.4 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803. (TAF code 0513)

FCC Registration Numbers are: 509634

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 placed on a 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 placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. 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.

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2.4 Measurement Results Explanation Example

For all conducted test items:

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

Note:

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

Following shows an offset computation example with cable loss 1.5dB, and 10dB attenuator.

offset:

= RF cable loss (dB)+ attenuation factor(dB)=11.5(dB)

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission & Conducted (Antenna Port)



Fig. 2-2 Conduction (AC Power Line) Configuration

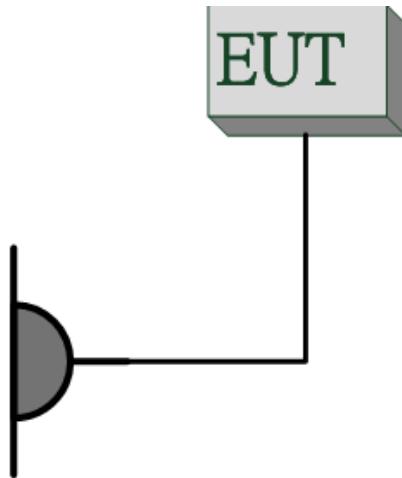


Table 2-1 Equipment Used in Tested System

| 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 | Shielded | Un-shielded |

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3. SUMMARY OF TEST RESULT

| FCC Rules | Description Of Test | Result |
|--------------------------|--|-----------|
| §15.207 | AC Power Line Conducted Emission | Compliant |
| §15.403(i) §15.407(e) | 26 dB & 6dB Emission Bandwidth | Compliant |
| §15.407(a) | Maximum Conducted Output Power | Compliant |
| §15.407(a) | Power Spectral Density | Compliant |
| §15.407(b) | Undesirable Radiated Emissions | Compliant |
| §15.407(c) | Transmission in case of Absence of Information | Compliant |
| §15.407(g) | Frequency Stability | Compliant |
| §15.203 §15.407(a) | 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 | 1 | MAIN |
| 802.11a | 5260~5320 | 52 to 64 | 52,60,64 | OFDM | 1 | MAIN |
| 802.11a | 5500~5720 | 100 to 140 | 100,116,140 | OFDM | 1 | MAIN |
| 802.11a | 5745~5825 | 149 to 165 | 149,157,165 | OFDM | 1 | MAIN |
| RADIATED EMISSION TEST (ABOVE 1 GHz) | | | | | | |
| MODE | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11a | 5180~5240 | 36 to 48 | 36,44,48 | OFDM | 1 | 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 | 1 | 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 | 1 | MAIN |
| 802.11n_HT20 | | | | OFDM | MCS0 | MAIN |
| 802.11n_HT40 | 5510~5710 | 102 to 142 | 102,110,134 | OFDM | MCS0 | MAIN |
| 802.11ac_VHT80 | 5530~5610 | 106 to 122 | 106,122 | OFDM | MCS0 | MAIN |
| 802.11a | 5745~5825 | 149 to 165 | 149,157,165 | OFDM | 1 | MAIN |
| 802.11n_HT20 | | | | OFDM | MCS0 | MAIN |
| 802.11n_HT40 | 5755~5795 | 151 to 159 | 151,159 | OFDM | MCS0 | MAIN |
| 802.11ac_VHT80 | 5775 | 155 | 155 | OFDM | MCS0 | MAIN |

Note:

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

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ANTENNA PORT CONDUCTED MEASUREMENT:
CONDUCTED TEST

| MODE | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
|----------------|----------------------|-------------------|----------------|------------|------------------|--------------|
| 802.11a | 5180~5240 | 36 to 48 | 36,44,48 | OFDM | 1 | 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 | 1 | 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 | 1 | MAIN |
| 802.11n_HT20 | | | | OFDM | MCS0 | MAIN |
| 802.11n_HT40 | 5510~5670 | 102 to 134 | 102,110,134 | OFDM | MCS0 | MAIN |
| 802.11ac_VHT80 | 5530~5610 | 106 to 122 | 106,122 | OFDM | MCS0 | MAIN |
| 802.11a | 5745~5825 | 149 to 165 | 149,157,165 | OFDM | 1 | MAIN |
| 802.11n_HT20 | | | | OFDM | MCS0 | MAIN |
| 802.11n_HT40 | 5755~5795 | 151 to 159 | 151,159 | OFDM | MCS0 | MAIN |
| 802.11ac_VHT80 | 5775 | 155 | 155 | OFDM | MCS0 | MAIN |

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5. MEASUREMENT UNCERTAINTY

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

Radiated Spurious Emission:

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

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

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

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6. CONDUCTED EMISSION TEST

6.1. Standard Applicable

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

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

Note

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

6.2. Measurement Equipment Used

| Conducted Emission Test Site | | | | | |
|------------------------------|-------------|-----------------------------|------------------|--------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMI Test Receiver | R&S | ESCI7 | 100760 | 05/10/2016 | 05/09/2017 |
| LISN | SCHWARZBECK | NSLK 8127 | 8127-649 | 05/16/2016 | 05/15/2017 |
| LISN | MESS TEC | FCC-LISN-50/250 -25-2-01 | 4034 | 05/16/2016 | 05/15/2017 |
| Coaxial Cables | N/A | WK CE Cable | N/A | 11/26/2015 | 11/25/2016 |

6.3. EUT Setup

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

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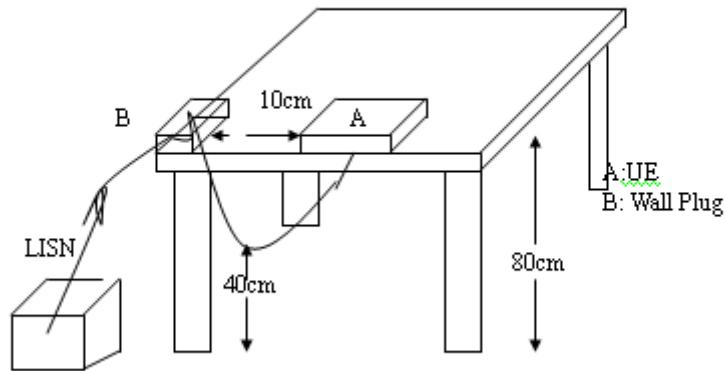
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6.4. Test SET-UP



6.5. Measurement Procedure

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

6.6. Measurement Result

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

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

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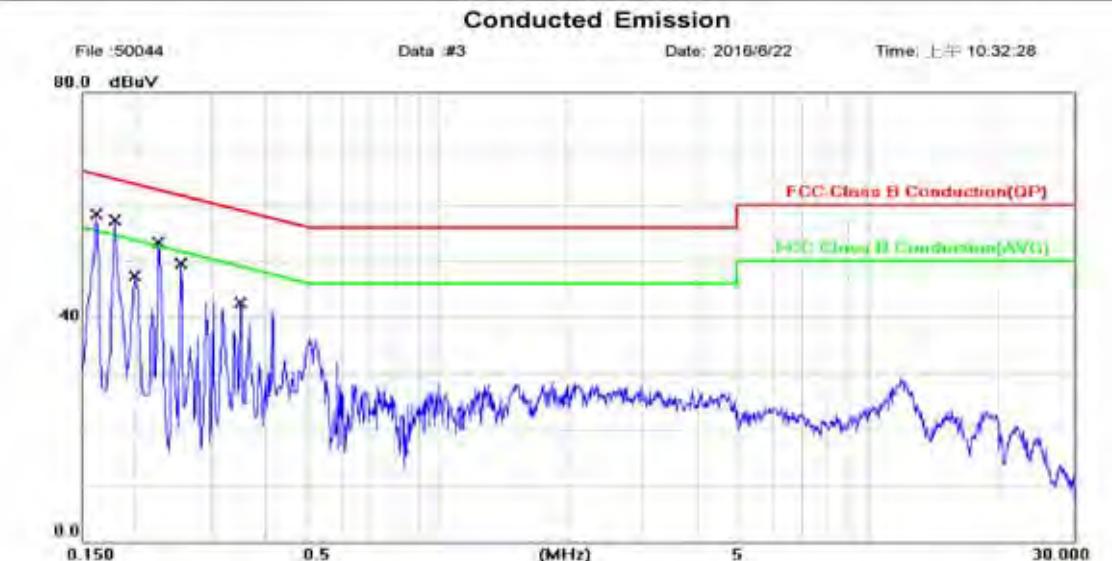
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AC POWER LINE CONDUCTED EMISSION TEST DATA

| | | | | | |
|-----------------|----------------|-----------|------|------------|---------------|
| Operation Mode: | Operation mode | | | Test Date: | Jun. 22, 2016 |
| Temperature: | 20 | Humidity: | 58 % | Test By: | Tin |
| | | | | Phase: | L1 |

Site: Conduction Room
 Limit: FCC Class B Conduction(QP)
 Mode: Operation
 Note: Adapter : ASSA53W-050300

Phase: **L1** Temperature: 20
 Power: AC 120V/60Hz Humidity: 58 %



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Detector | Comment |
|-----|-----|--------|---------|---------|----------|-------|--------|----------|---------|
| | | | Level | Factor | ment | | | | |
| 1 | * | 0.1620 | 51.20 | 0.10 | 51.30 | 65.36 | -14.06 | QP | |
| 2 | | 0.1620 | 28.90 | 0.10 | 29.00 | 55.36 | -26.36 | AVG | |
| 3 | | 0.1780 | 46.90 | 0.10 | 47.00 | 64.58 | -17.58 | QP | |
| 4 | | 0.1780 | 21.40 | 0.10 | 21.50 | 54.58 | -33.08 | AVG | |
| 5 | | 0.1980 | 44.50 | 0.10 | 44.60 | 63.69 | -19.09 | QP | |
| 6 | | 0.1980 | 24.20 | 0.10 | 24.30 | 53.69 | -29.39 | AVG | |
| 7 | | 0.2260 | 38.90 | 0.10 | 39.00 | 62.60 | -23.60 | QP | |
| 8 | | 0.2260 | 21.60 | 0.10 | 21.70 | 52.60 | -30.90 | AVG | |
| 9 | | 0.2540 | 39.70 | 0.11 | 39.81 | 61.63 | -21.82 | QP | |
| 10 | | 0.2540 | 18.20 | 0.11 | 18.31 | 51.63 | -33.32 | AVG | |
| 11 | | 0.3500 | 27.60 | 0.11 | 27.71 | 58.96 | -31.25 | QP | |
| 12 | | 0.3500 | 17.20 | 0.11 | 17.31 | 48.96 | -31.65 | AVG | |

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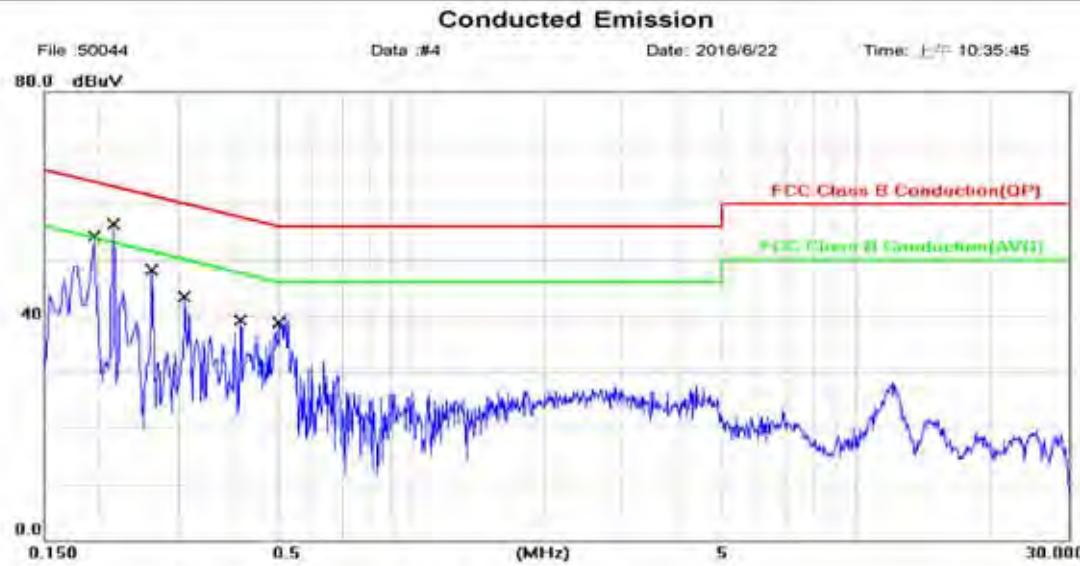
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Site: Conduction Room
Limit: FCC Class B Conduction(QP)
Mode: Operation
Note: Adapter: ASSA53W-050300

Phase: **N**
Power: AC 120V/60Hz

Temperature: 20 °C
Humidity: 58 %



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Detector | Comment |
|-----|-----|--------|---------|---------|----------|-------|--------|----------|---------|
| | | | Level | Factor | ment | | | | |
| 1 | | 0.1940 | 46.30 | 0.08 | 46.38 | 63.86 | -17.48 | QP | |
| 2 | | 0.1940 | 31.70 | 0.08 | 31.78 | 53.86 | -22.08 | AVG | |
| 3 * | | 0.2140 | 45.70 | 0.08 | 45.78 | 63.05 | -17.27 | QP | |
| 4 | | 0.2140 | 26.30 | 0.08 | 26.38 | 53.05 | -26.67 | AVG | |
| 5 | | 0.2620 | 39.50 | 0.09 | 39.59 | 61.37 | -21.78 | QP | |
| 6 | | 0.2620 | 19.40 | 0.09 | 19.49 | 51.37 | -31.88 | AVG | |
| 7 | | 0.3100 | 32.40 | 0.09 | 32.49 | 59.97 | -27.48 | QP | |
| 8 | | 0.3100 | 20.10 | 0.09 | 20.19 | 49.97 | -29.78 | AVG | |
| 9 | | 0.4140 | 28.60 | 0.10 | 28.70 | 57.57 | -28.87 | QP | |
| 10 | | 0.4140 | 16.80 | 0.10 | 16.90 | 47.57 | -30.67 | AVG | |
| 11 | | 0.5060 | 36.20 | 0.10 | 36.30 | 56.00 | -19.70 | QP | |
| 12 | | 0.5060 | 26.60 | 0.10 | 26.70 | 46.00 | -19.30 | AVG | |

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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) = $10 \log (1/\text{Duty})$ |
|-------------|----------------|---|
| 802.11a | 97.11 | 0.13 |
| 802.11n_20 | 96.98 | 0.13 |
| 802.11n_40 | 93.99 | 0.27 |
| 802.11ac_80 | 88.77 | 0.52 |

$$\text{Duty Cycle Factor: } 10 \log (1/0.9711) = 0.13$$

$$\text{Duty Cycle Factor: } 10 \log (1/0.9698) = 0.13$$

$$\text{Duty Cycle Factor: } 10 \log (1/0.9399) = 0.27$$

$$\text{Duty Cycle Factor: } 10 \log (1/0.8877) = 0.52$$

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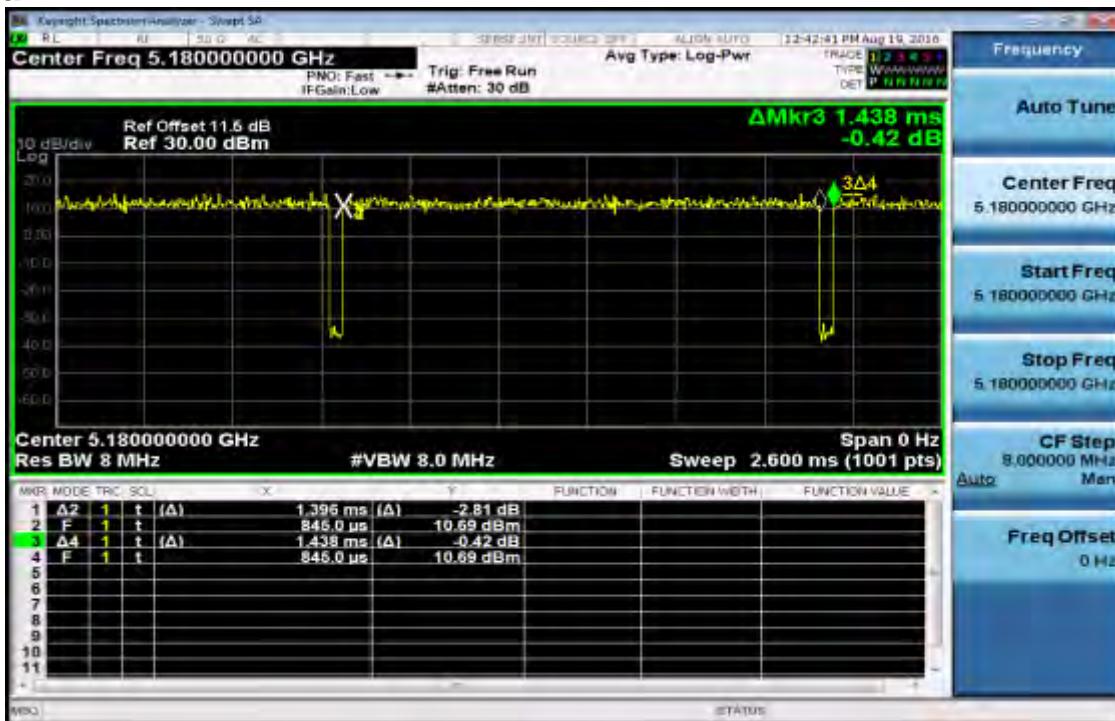
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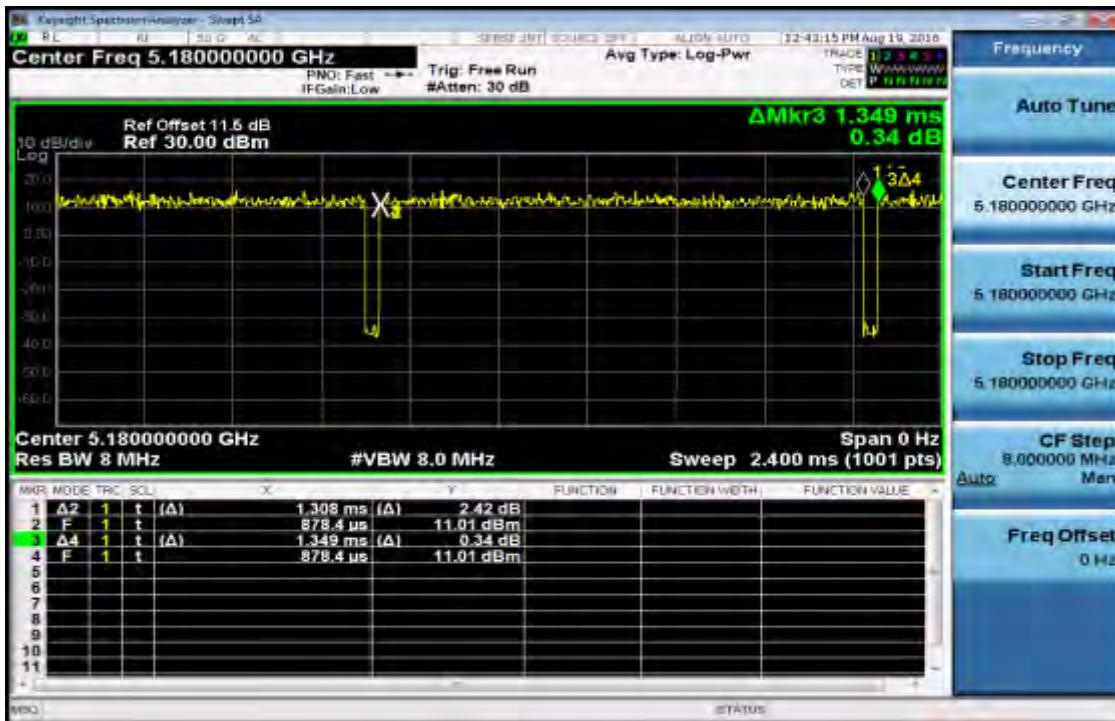
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DUTY CYCLE TEST SIGNAL Measurement Result

802.11a



802.11n HT20



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802.11n HT 40



802.11 ac VHT 80



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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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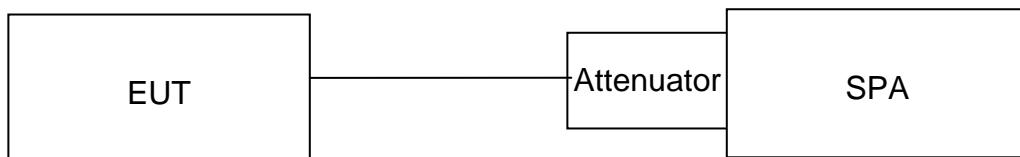
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8.3 Measurement Equipment Used

| SGS Conducted Room | | | | | |
|-----------------------|---------------|--------------|---------------|------------------|-----------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due |
| Power Meter | Anritsu | ML2495A | 1005007 | 12/09/2015 | 12/08/2016 |
| Power Sensor | Anritsu | MA2411B | 917032 | 12/09/2015 | 12/08/2016 |
| EXA Spectrum Analyzer | Agilent | N9030A | MY53120760 | 02/26/2016 | 02/25/2017 |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 01/02/2016 | 01/01/2017 |
| Coaxial Cable | HUBER+SUHNER | SUCOFLEX 102 | 23670/2 | 01/02/2016 | 01/01/2017 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 2 | 01/02/2016 | 01/01/2017 |
| Splitter | Agilent | 11636B | N/A | 01/02/2016 | 01/01/2017 |
| DC Power Supply | Agilent | E3640A | MY52410006 | 11/05/2015 | 11/04/2016 |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 05/17/2016 | 05/16/2017 |

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 | 21.48 | 13.321 |
| 5220 | 21.48 | 13.321 |
| 5240 | 21.43 | 13.310 |
| 5260 | 21.44 | 13.312 |
| 5300 | 21.60 | 13.344 |
| 5320 | 21.59 | 13.342 |
| 5500 | 21.62 | 13.348 |
| 5580 | 21.62 | 13.348 |
| 5700 | 21.53 | 13.331 |

802.11n_HT20_Main

| Frequency (MHz) | 26dB BW (MHz) | 10 Log (B) (dB) |
|-----------------|---------------|-----------------|
| 5180 | 22.00 | 13.423 |
| 5220 | 21.52 | 13.328 |
| 5240 | 21.46 | 13.316 |
| 5260 | 22.09 | 13.441 |
| 5300 | 21.46 | 13.317 |
| 5320 | 21.50 | 13.325 |
| 5500 | 21.70 | 13.365 |
| 5580 | 22.44 | 13.509 |
| 5700 | 21.69 | 13.363 |

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802.11n _HT40_Main

| Frequency (MHz) | 26dB BW (MHz) | 10 Log (B) (dB) |
|--------------------|---------------------|--------------------|
| 5190 | 40.21 | 16.044 |
| 5230 | 39.96 | 16.016 |
| 5270 | 39.85 | 16.005 |
| 5310 | 39.90 | 16.010 |
| 5510 | 39.87 | 16.007 |
| 5550 | 44.80 | 16.512 |
| 5670 | 40.22 | 16.044 |

802.11ac _VHT80_Main

| Frequency (MHz) | 26dB BW (MHz) | 10 Log (B) (dB) |
|--------------------|---------------------|--------------------|
| 5210 | 81.95 | 19.135 |
| 5290 | 81.37 | 19.105 |
| 5530 | 81.92 | 19.134 |
| 5610 | 81.59 | 19.116 |

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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 | 16.38 | 12.143 |
| 5785 | 16.38 | 12.142 |
| 5825 | 16.37 | 12.141 |

802.11n_HT20_Main

| Frequency (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) |
|-----------------|--------------|-----------------|
| 5745 | 17.62 | 12.461 |
| 5785 | 17.63 | 12.462 |
| 5825 | 17.61 | 12.456 |

802.11n_HT40_Main

| Frequency (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) |
|-----------------|--------------|-----------------|
| 5755 | 36.36 | 15.606 |
| 5795 | 36.36 | 15.606 |

802.11ac_VHT80_Main

| Frequency (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) |
|-----------------|--------------|-----------------|
| 5775 | 76.27 | 18.824 |

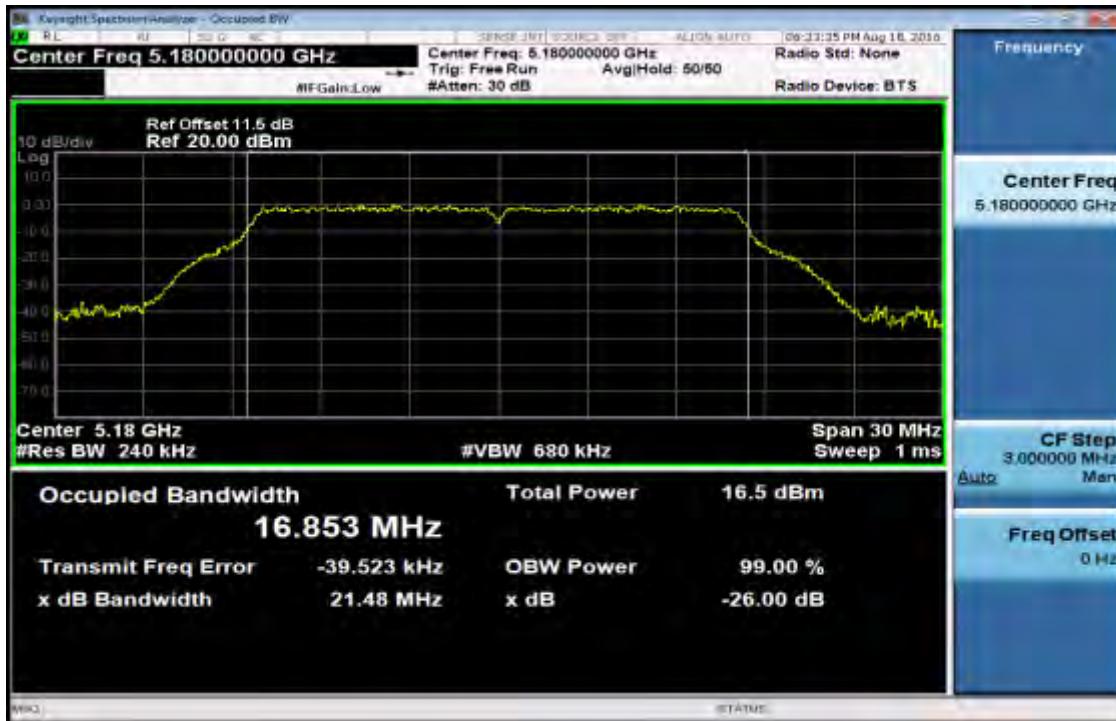
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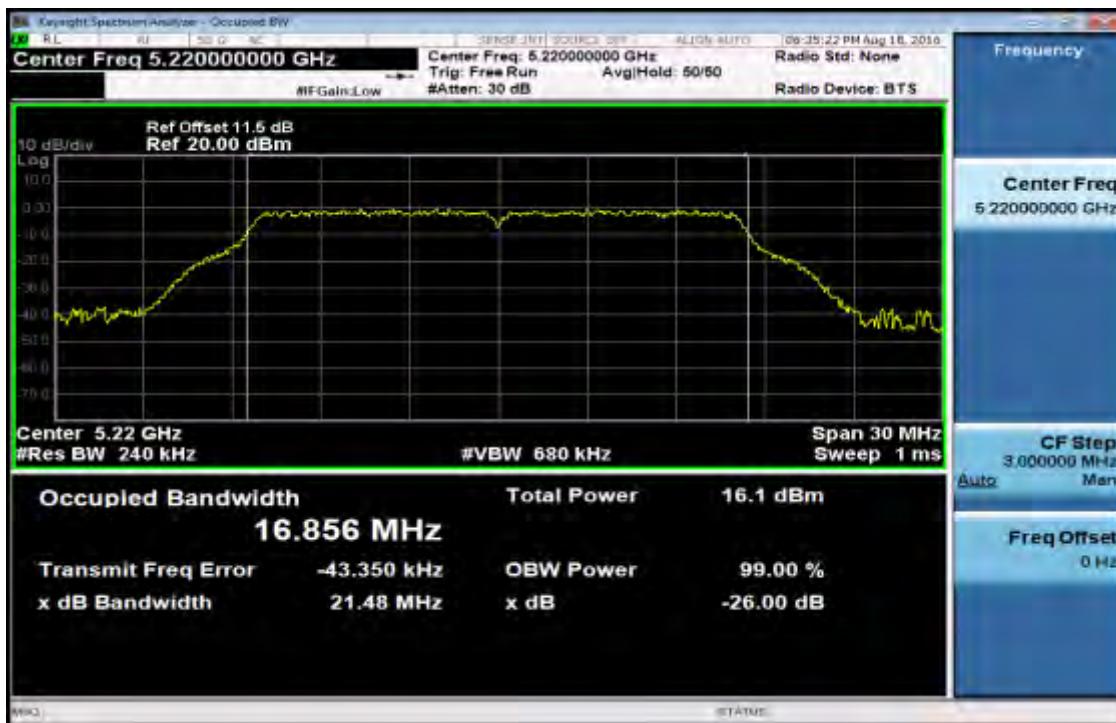
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802.11a, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Low (5180MHz)



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

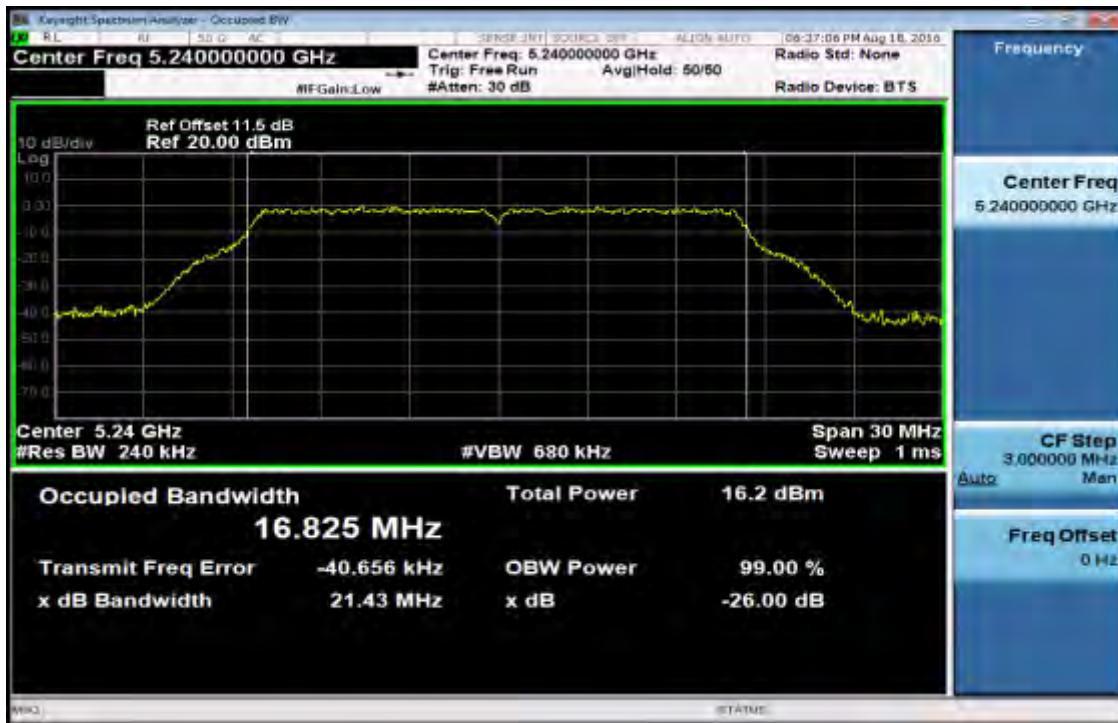


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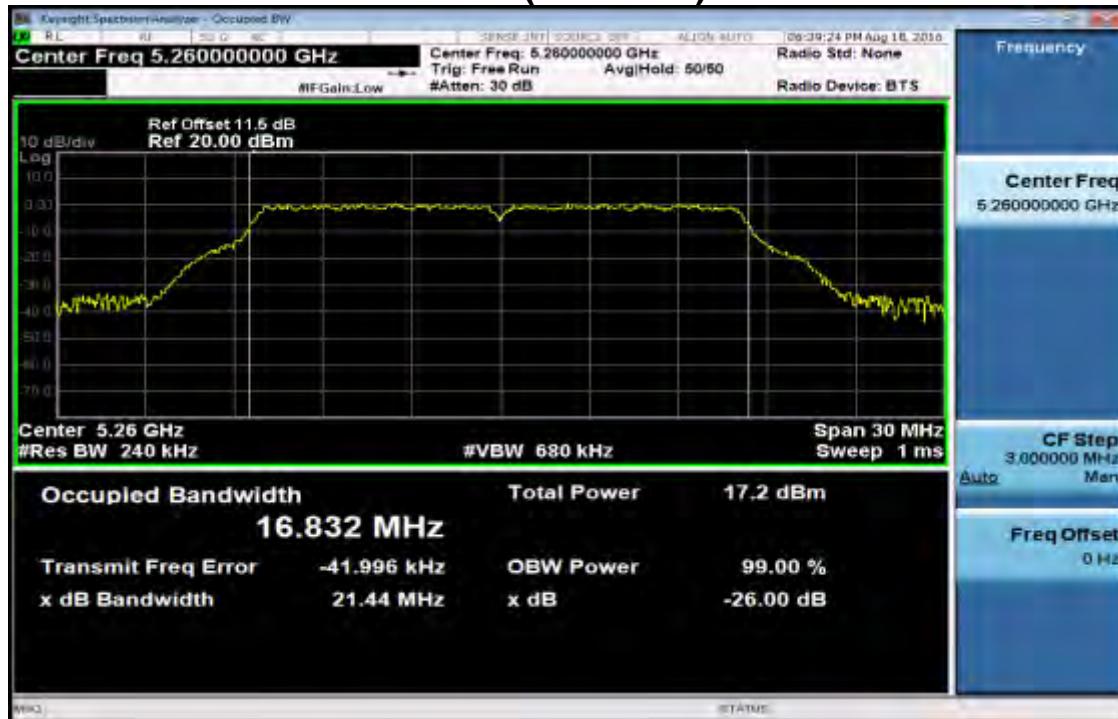
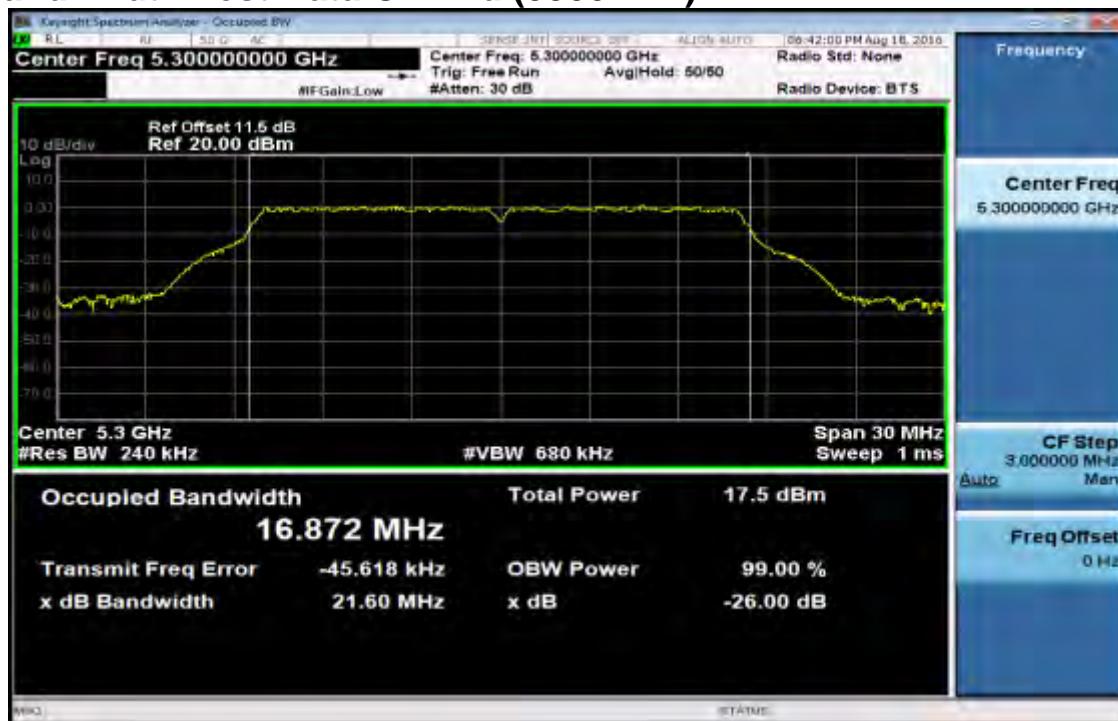
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26dB Band Width Test Data CH-High (5240MHz)

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**802.11a, 5250~5350 MHz (Main)
26dB Band Width Test Data CH-Low (5260MHz)****26dB Band Width Test Data CH-Mid (5300MHz)**

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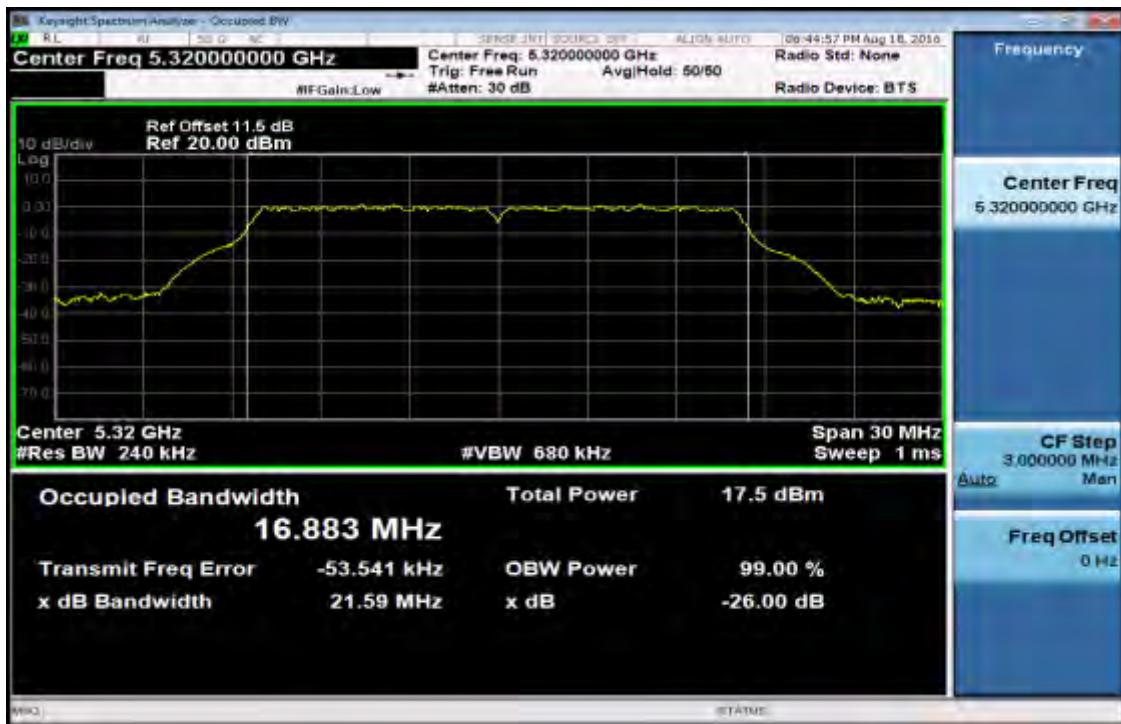
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26dB Band Width Test Data CH-High (5320MHz)



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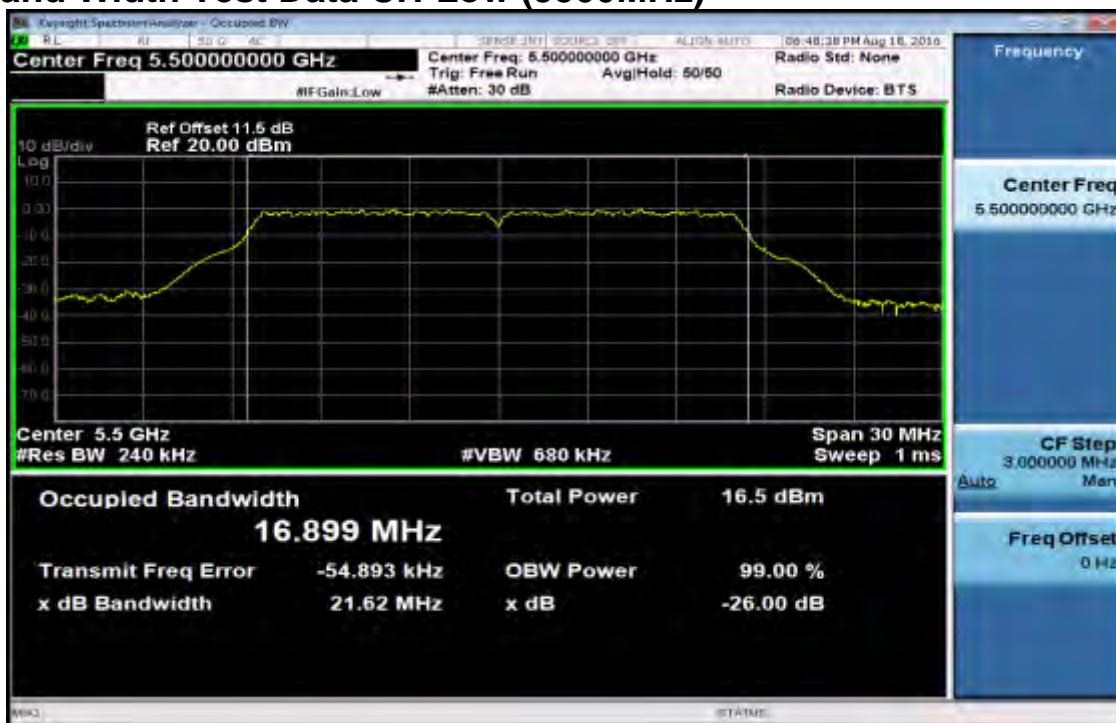
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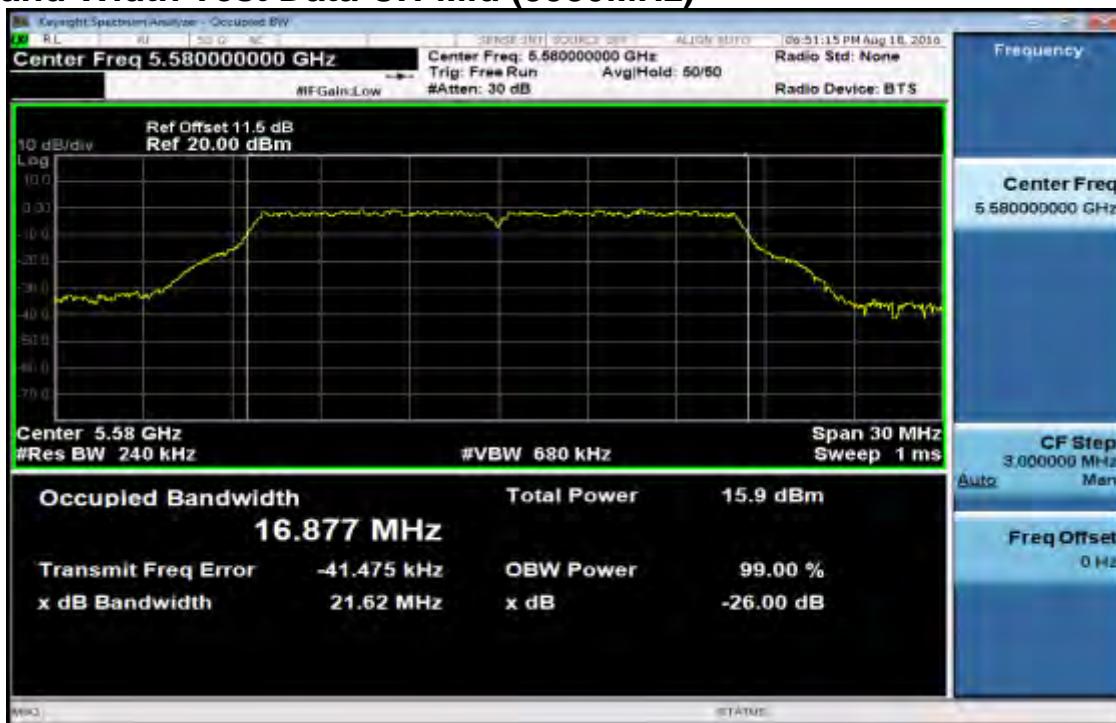
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802.11a, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5500MHz)



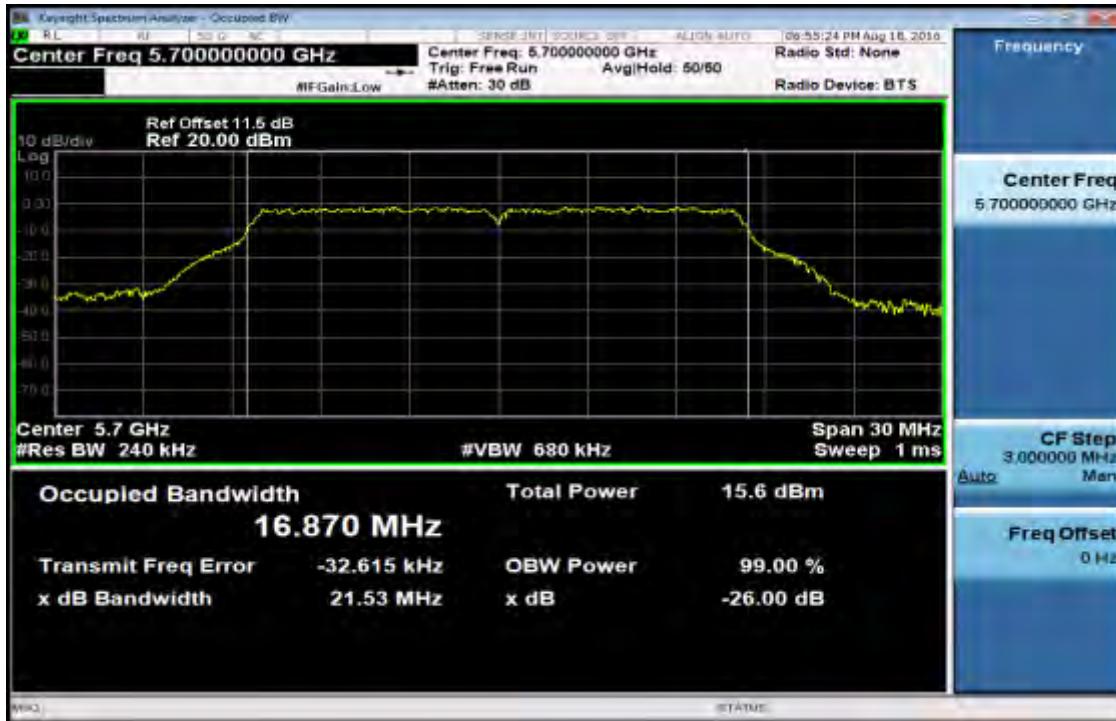
26dB Band Width Test Data CH-Mid (5580MHz)



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

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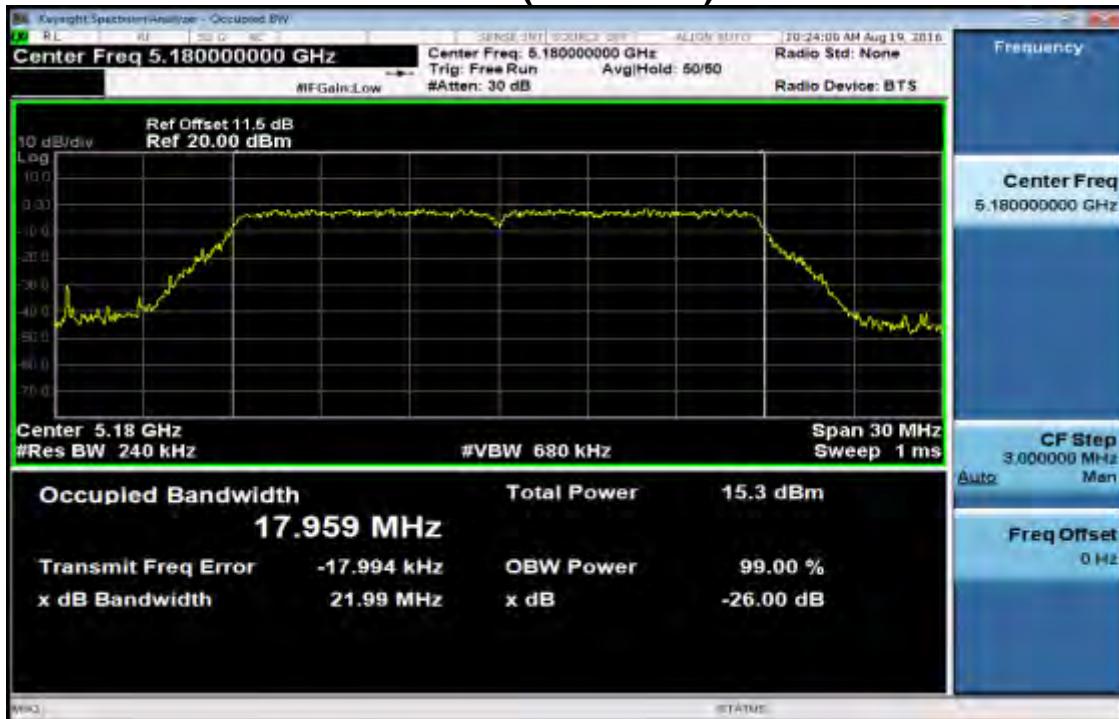
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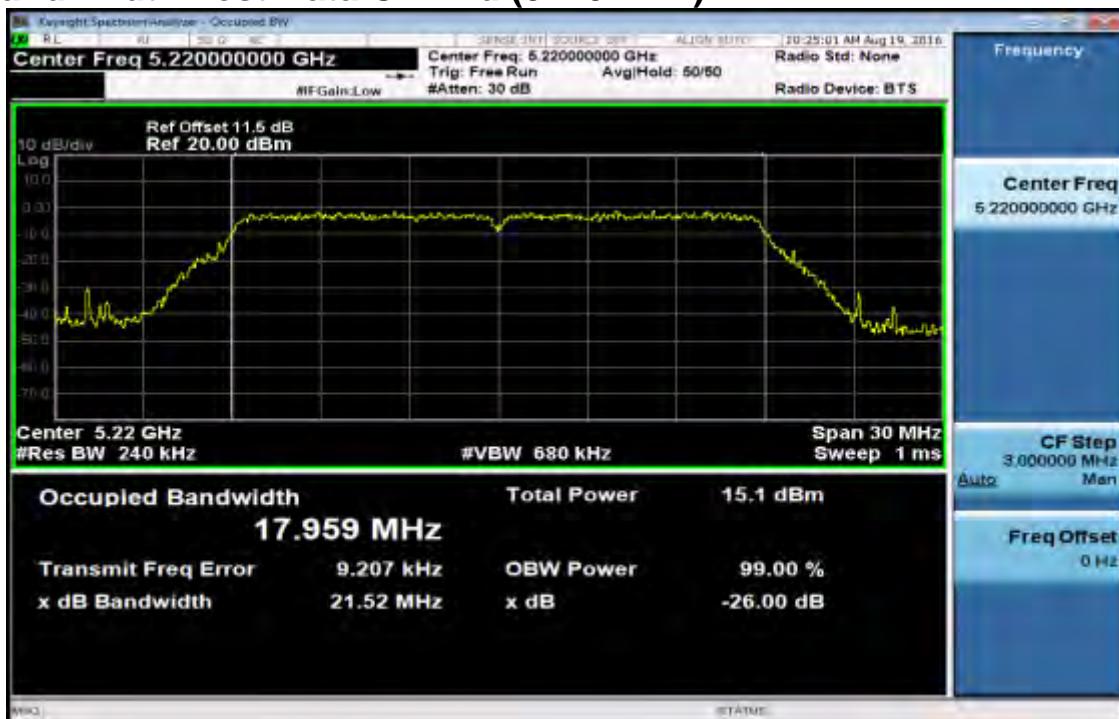
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802.11n HT20, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Low (5180 MHz)



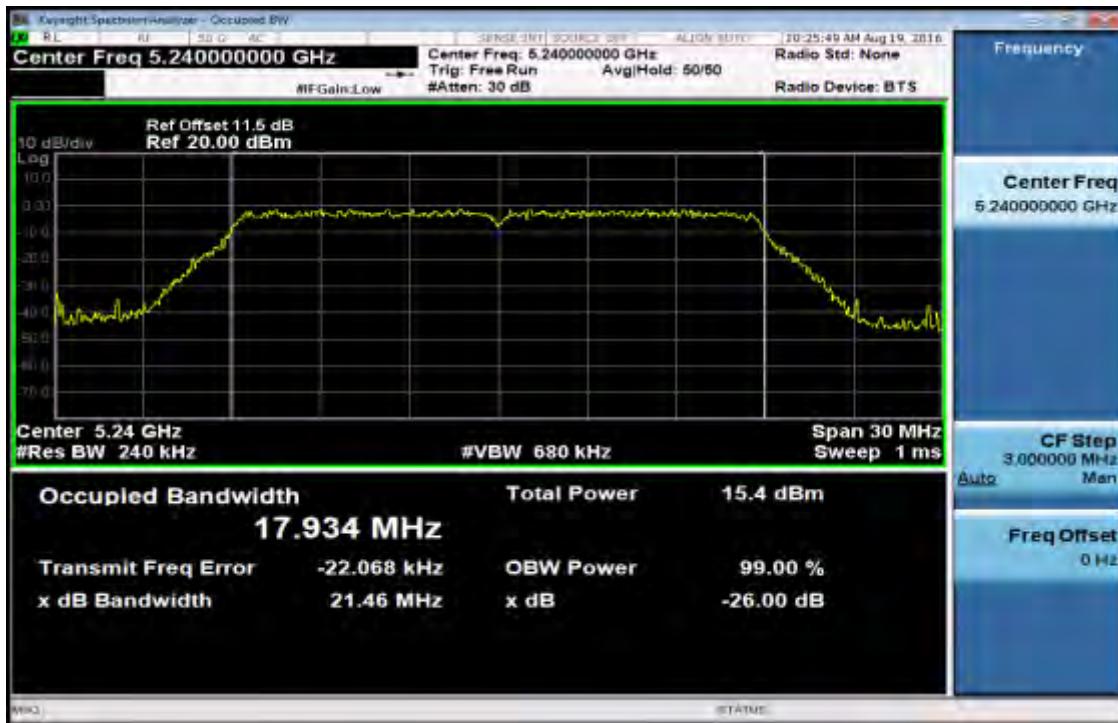
26dB Band Width Test Data CH-Mid (5220 MHz)



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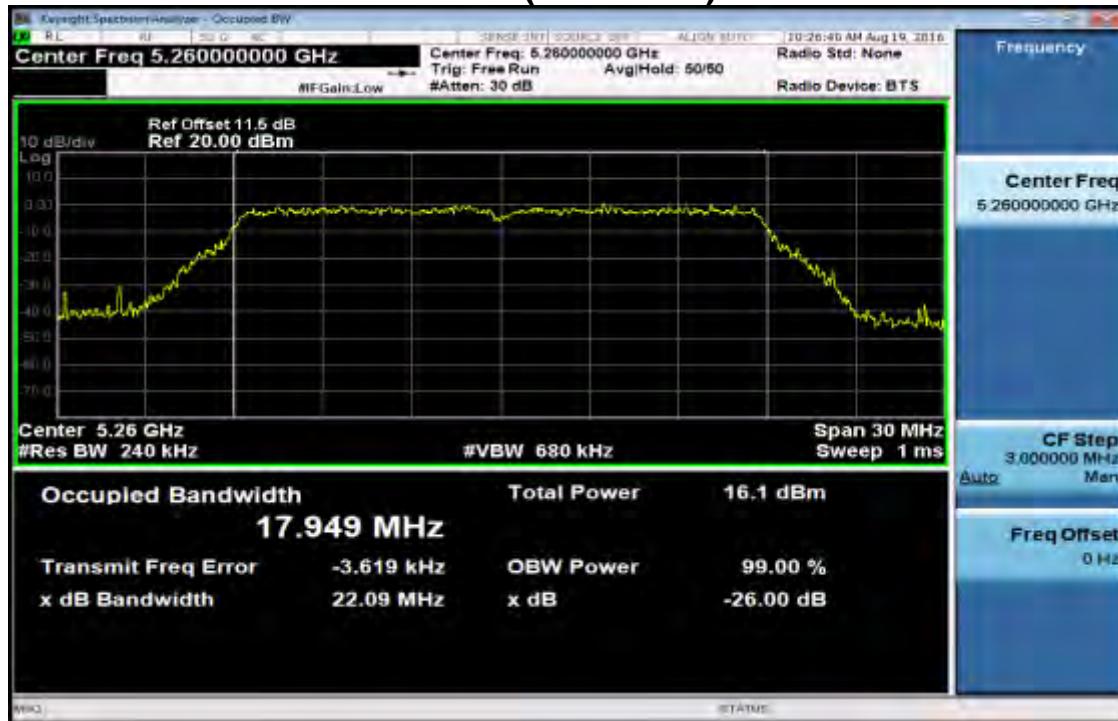
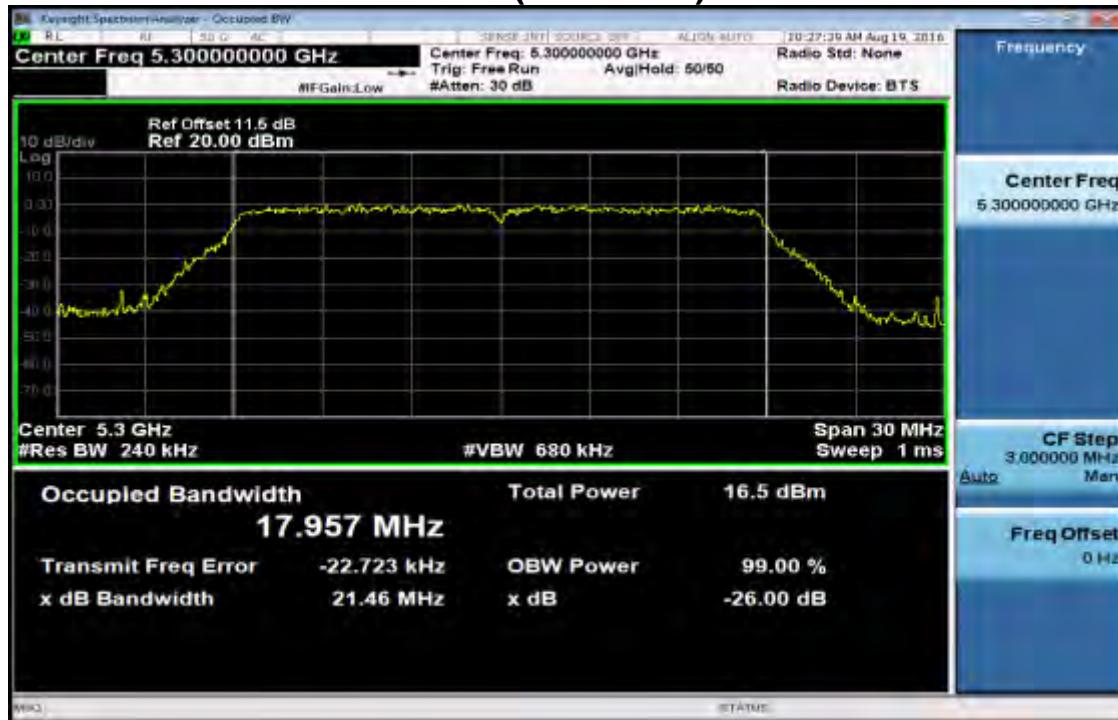
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26dB Band Width Test Data CH-High (5240 MHz)

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**802.11n HT20, 5250~5350 MHz (Main)
26dB Band Width Test Data CH-Low (5260 MHz)****26dB Band Width Test Data CH-Mid (5300 MHz)**

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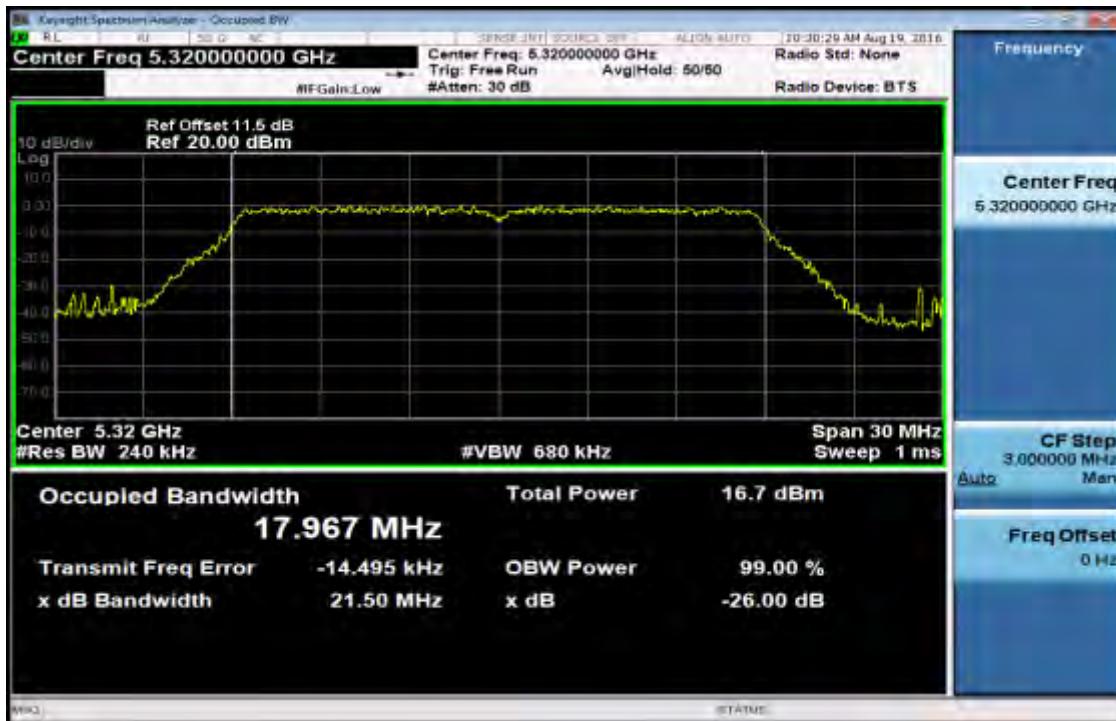
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26dB Band Width Test Data CH-High (5320 MHz)

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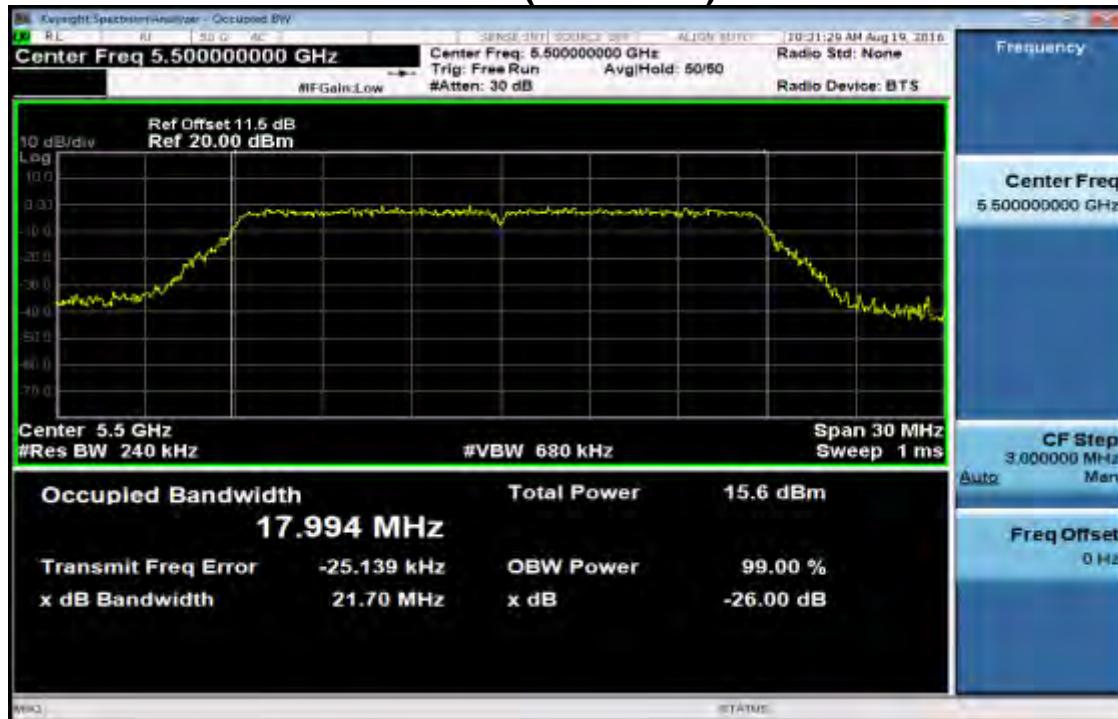
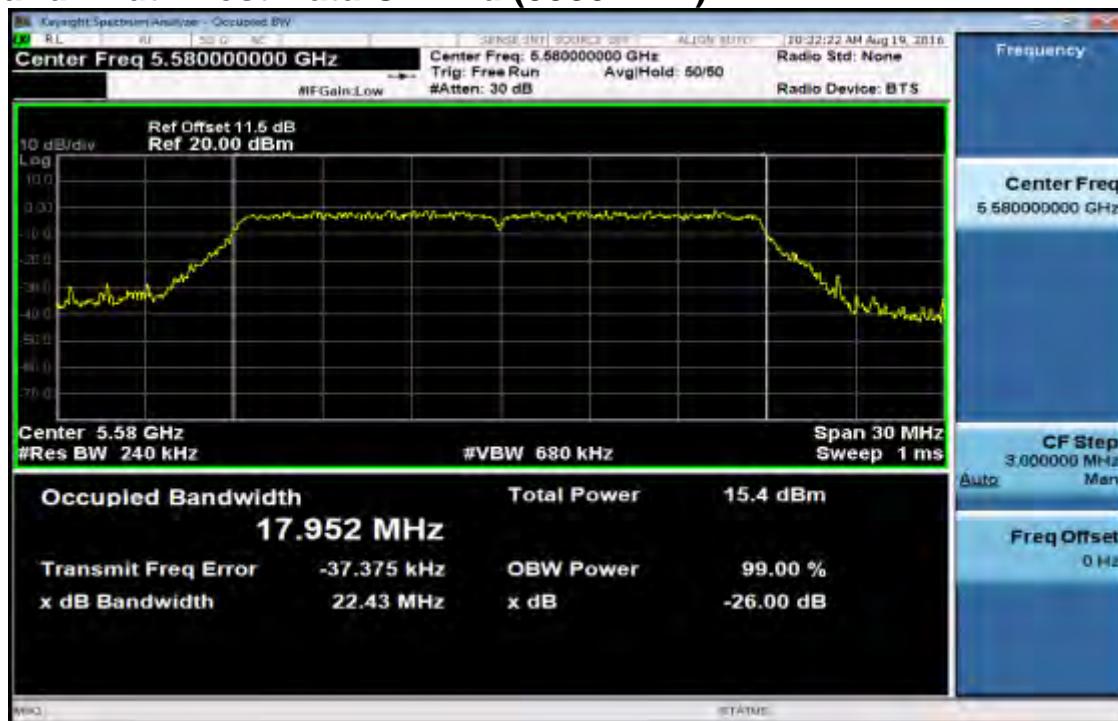
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26dB Band Width Test Data CH-Low (5500 MHz)****26dB Band Width Test Data CH-Mid (5580 MHz)**

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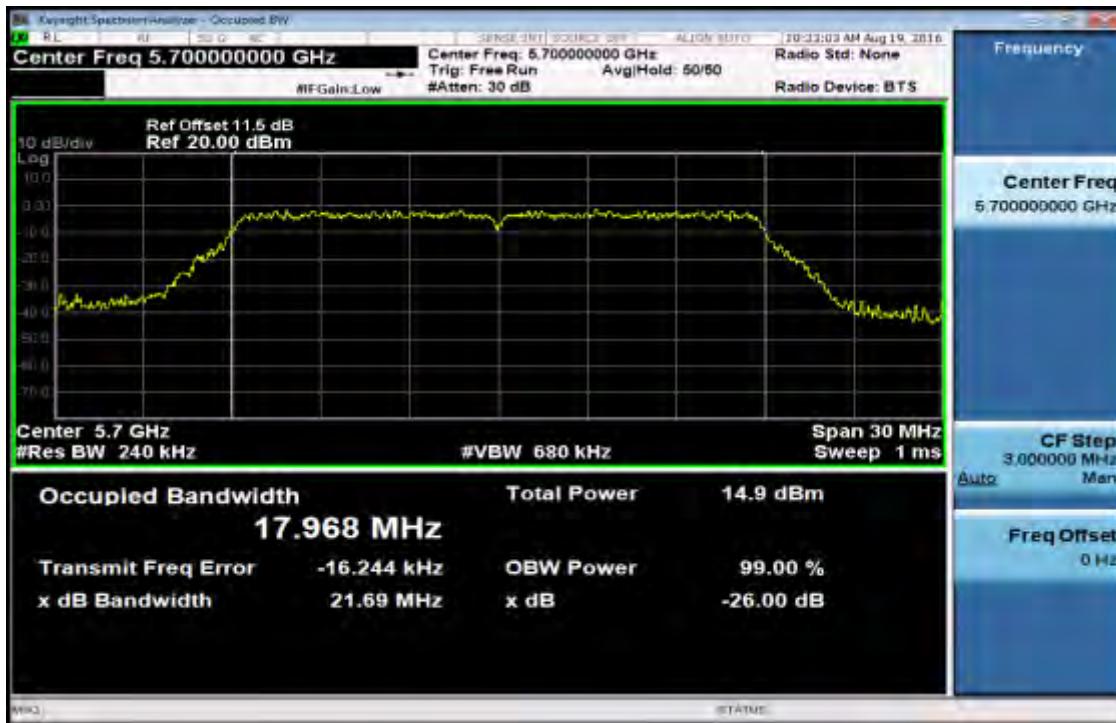
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26dB Band Width Test Data CH-High (5700 MHz)

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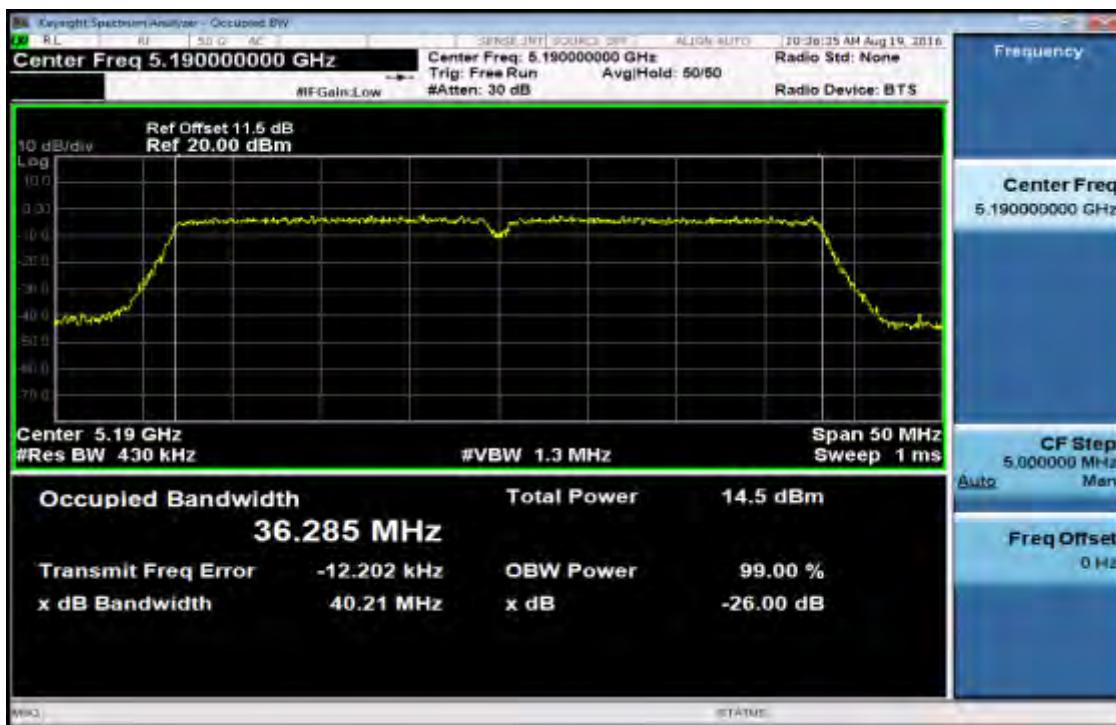
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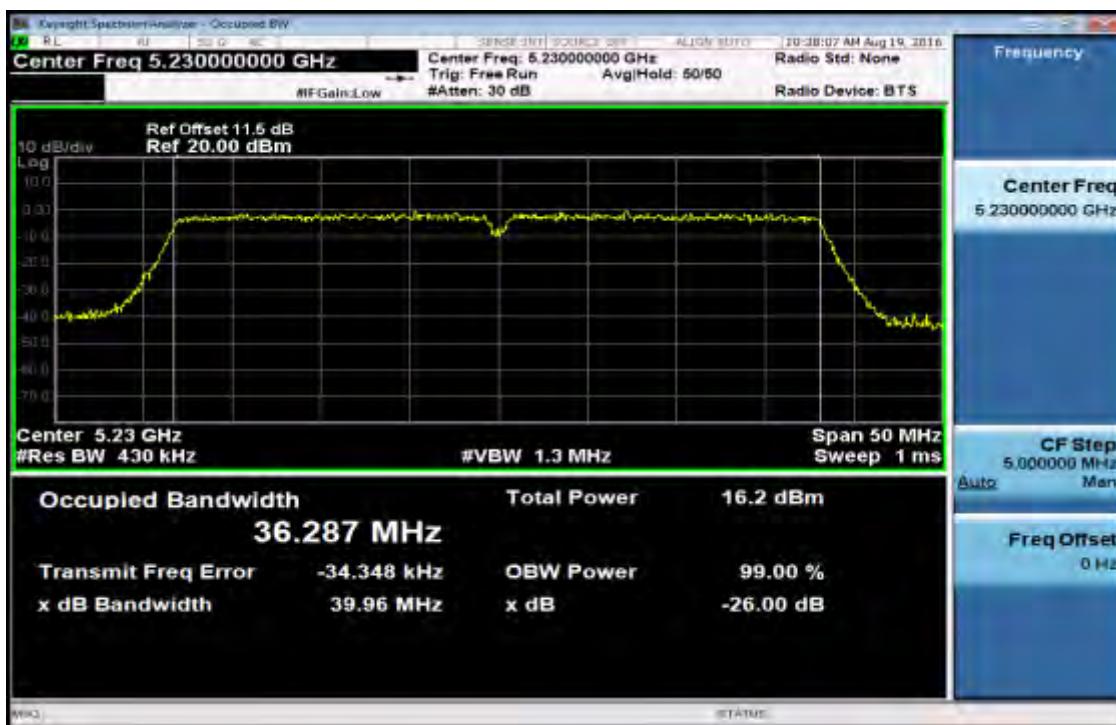
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802.11n HT40, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Low (5190 MHz)



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

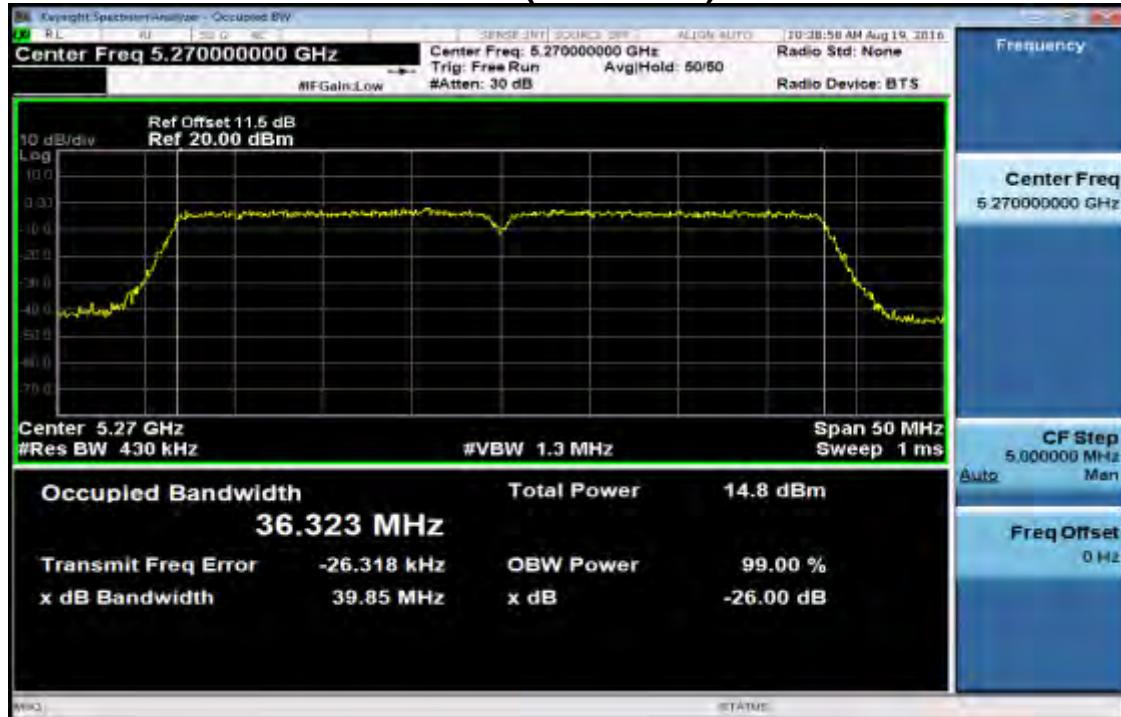


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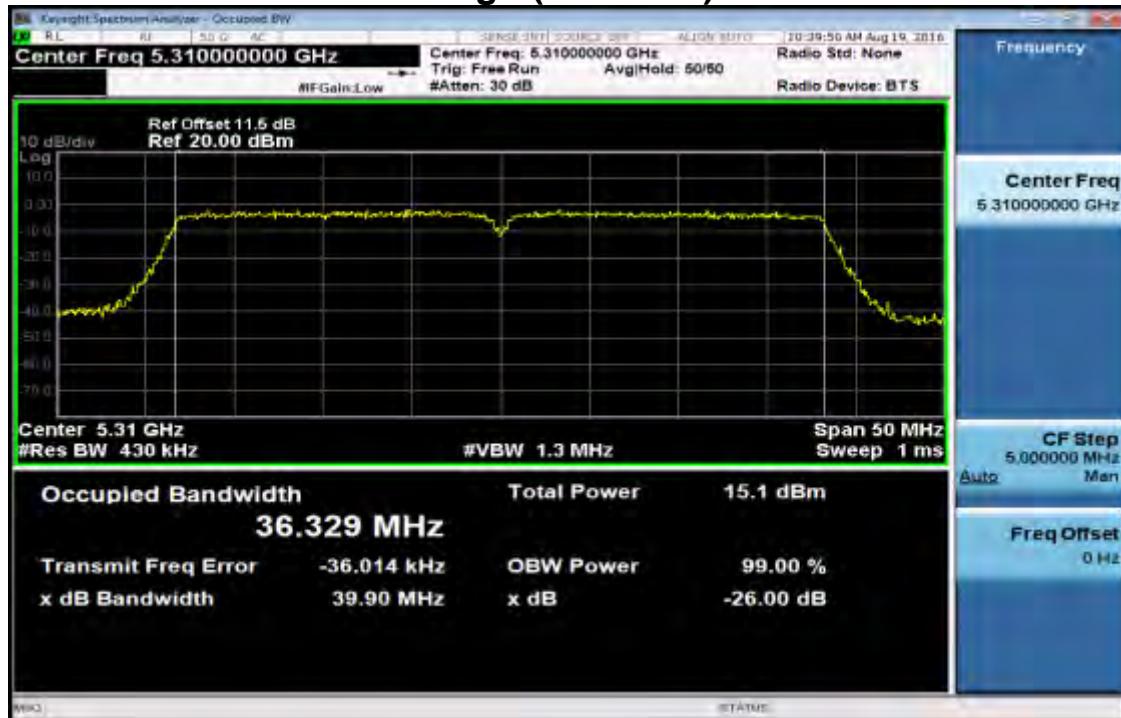
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802.11n HT40, 5250~5350 MHz (Main) 26dB Band Width Test Data CH-Low (5270 MHz)



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

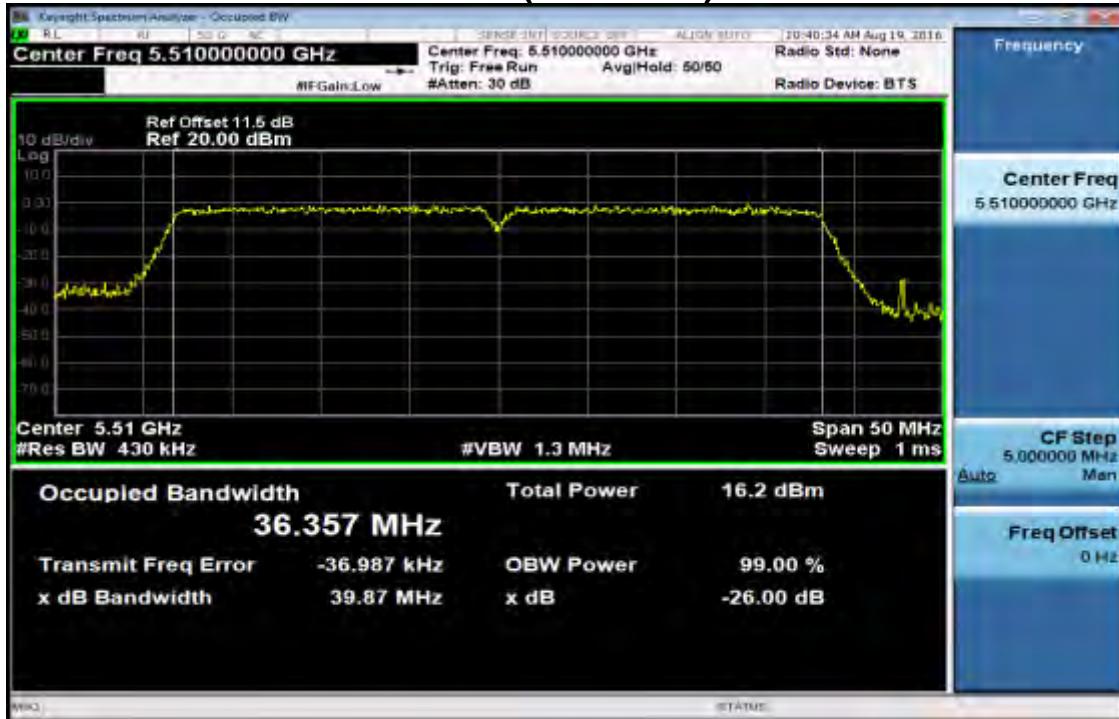


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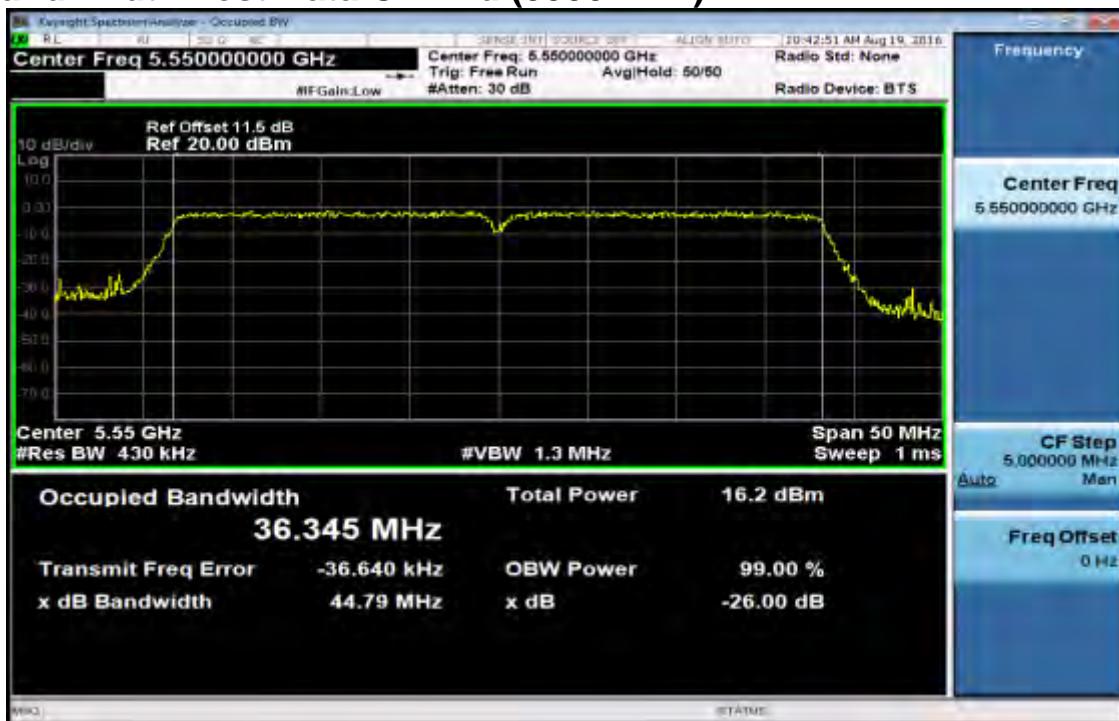
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802.11n HT40, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5510 MHz)



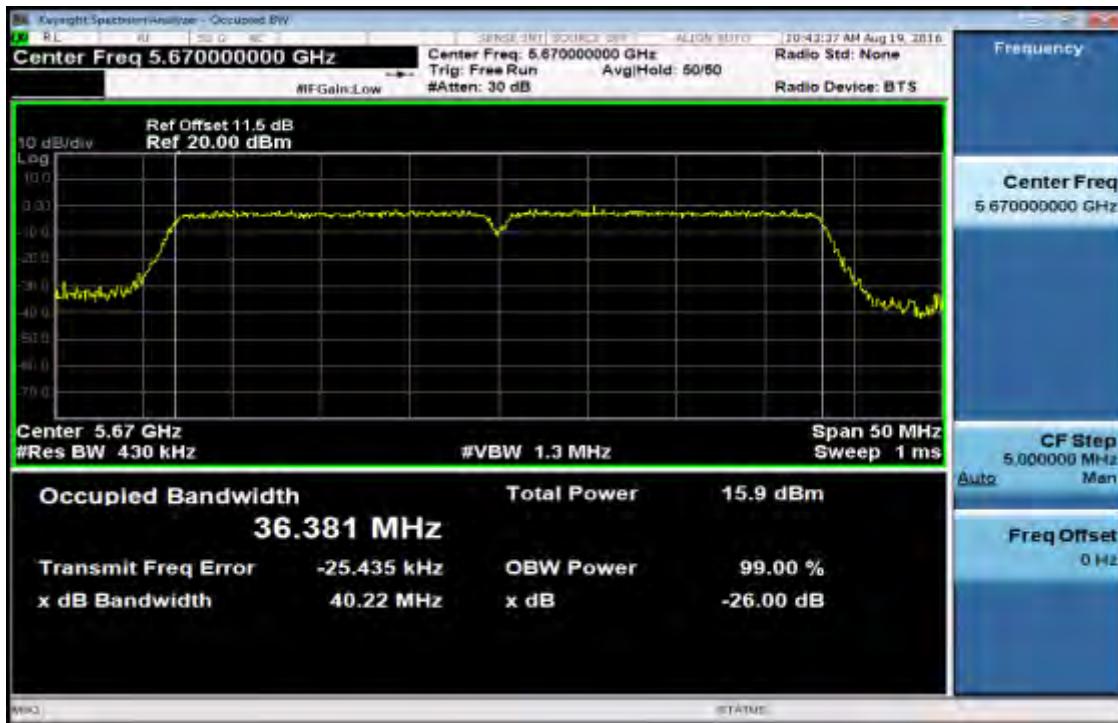
26dB Band Width Test Data CH-Mid (5550 MHz)



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

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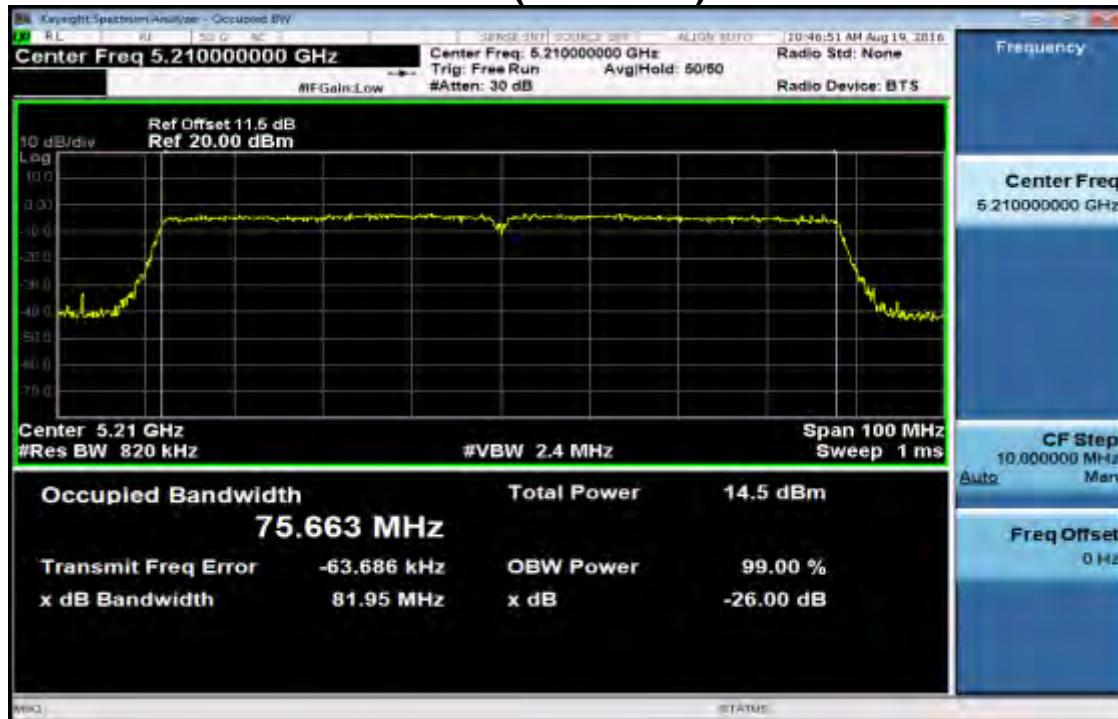
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f (886-2) 2298-0488

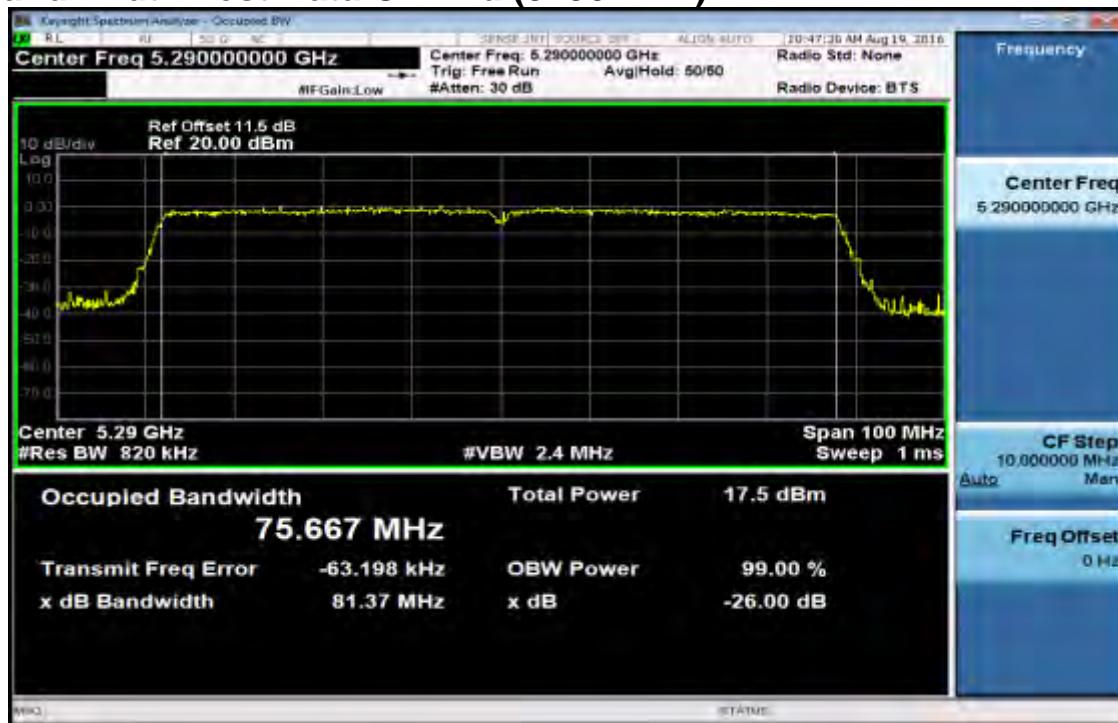
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802.11ac VHT80, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Mid (5210 MHz)



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

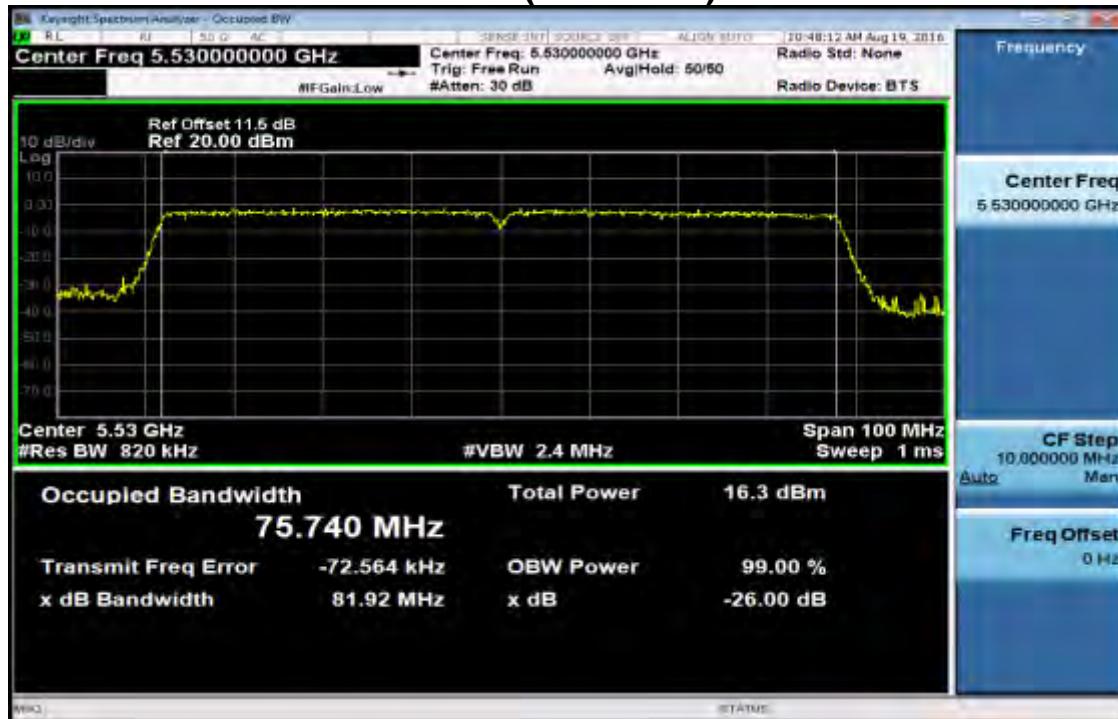


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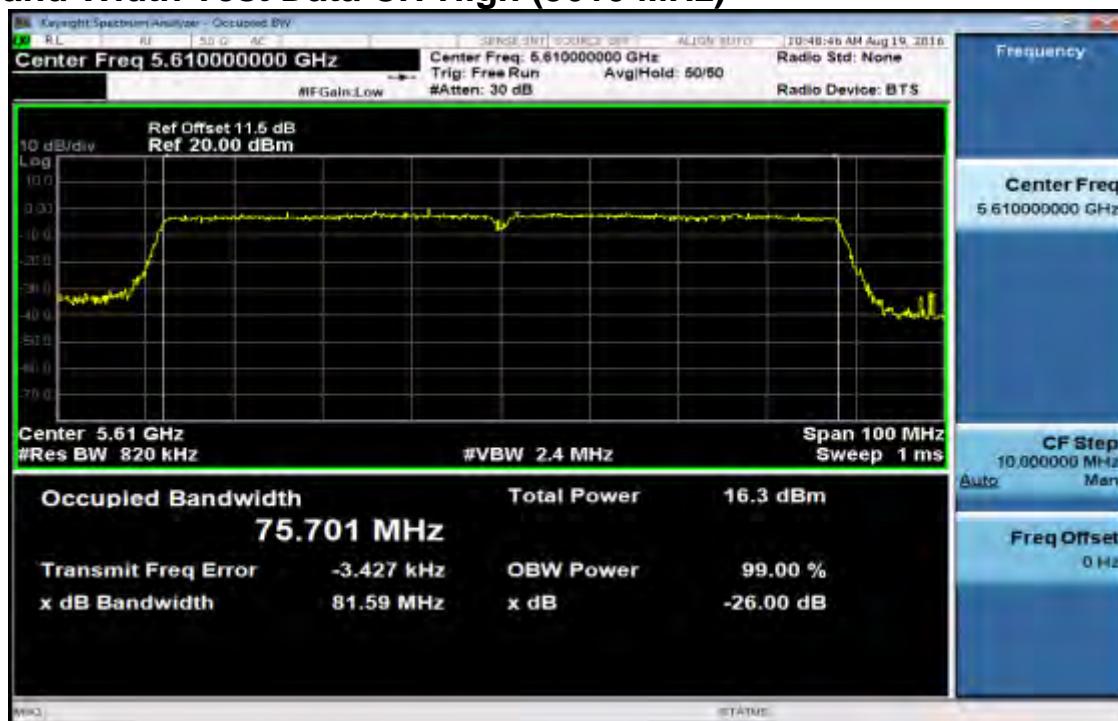
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802.11ac VHT80, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5530 MHz)



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



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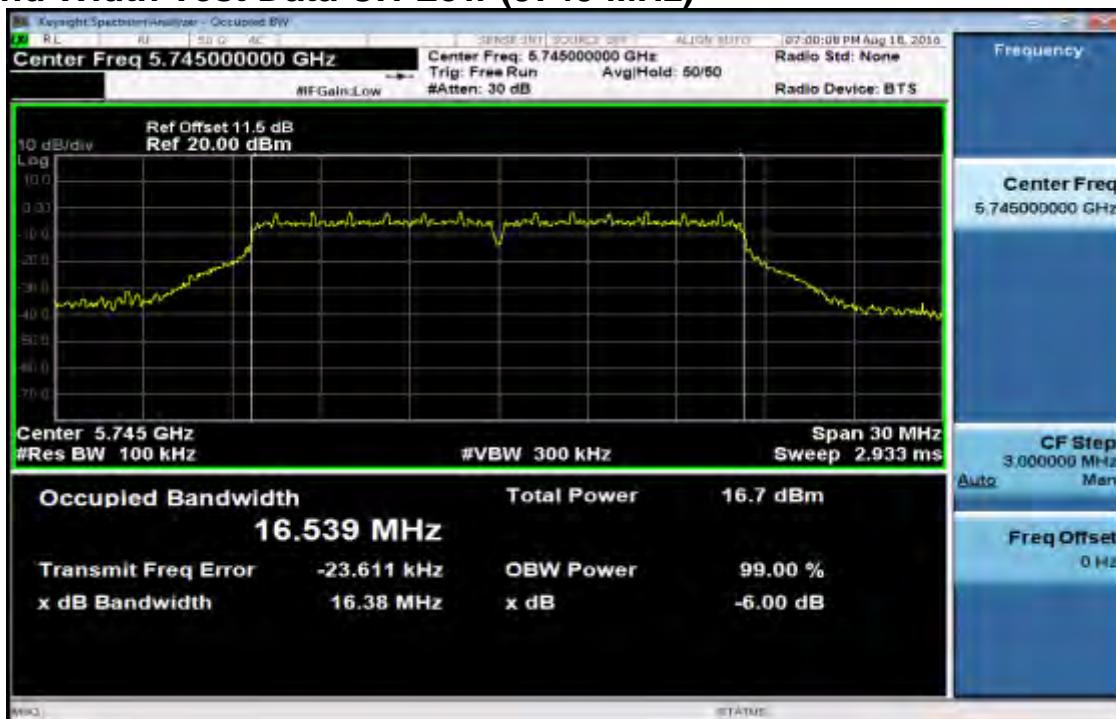
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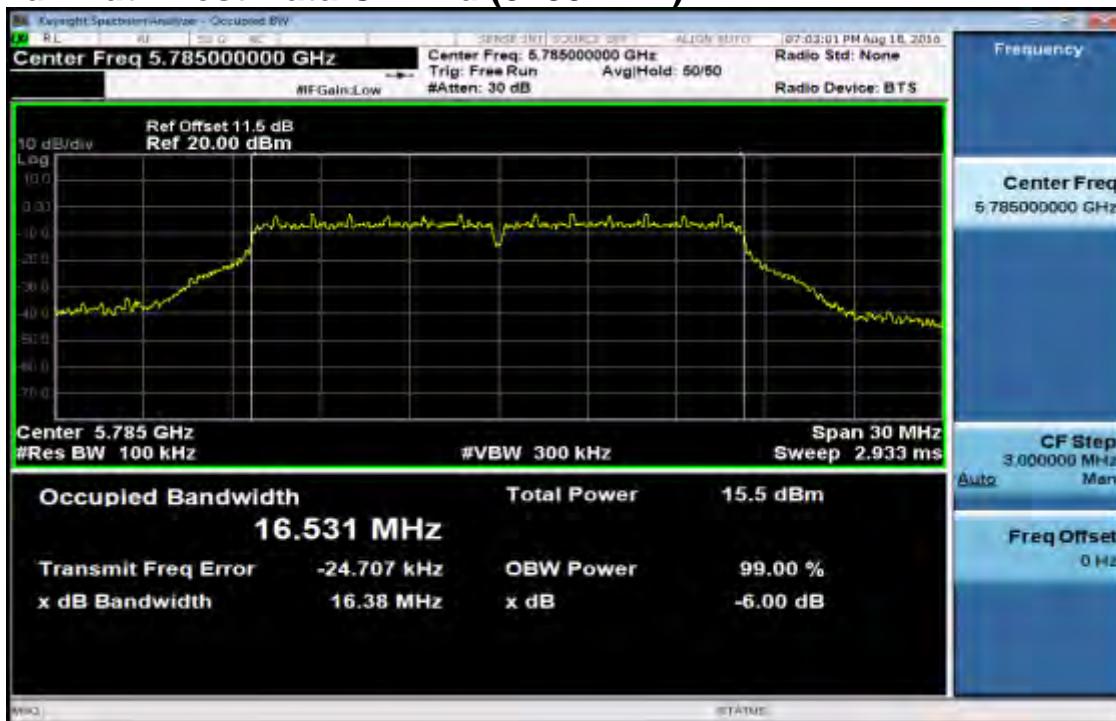
6dB Band Width measure with Peak detector for FCC

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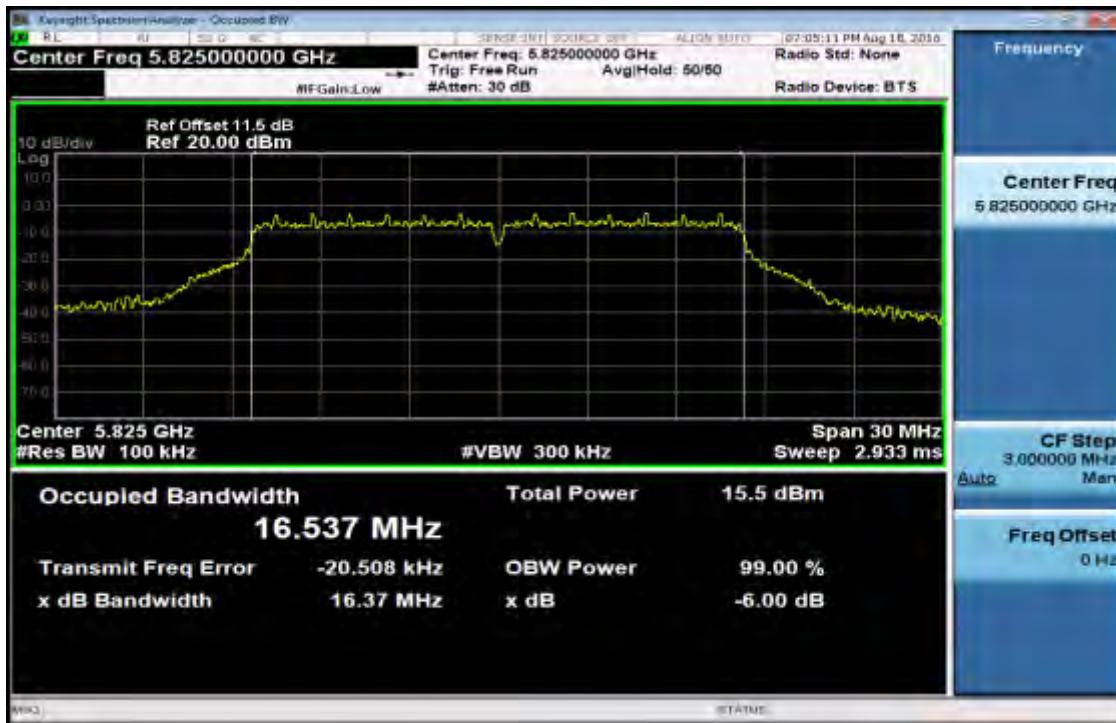
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6dB Band Width Test Data CH-High (5825 MHz)

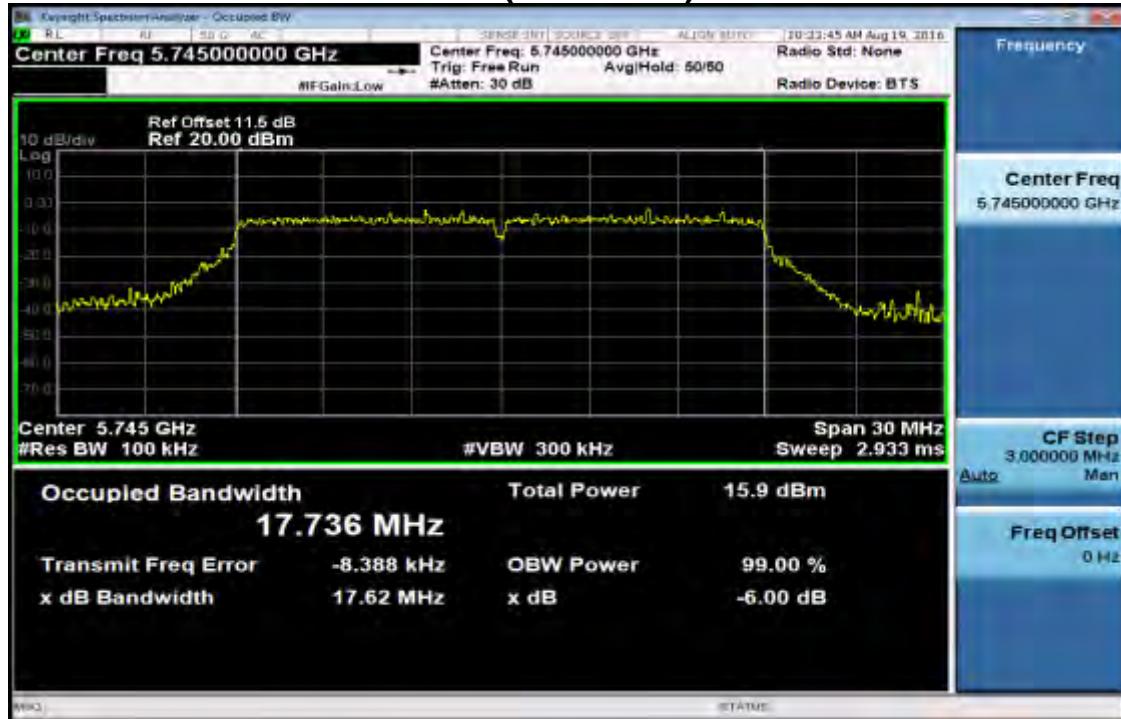


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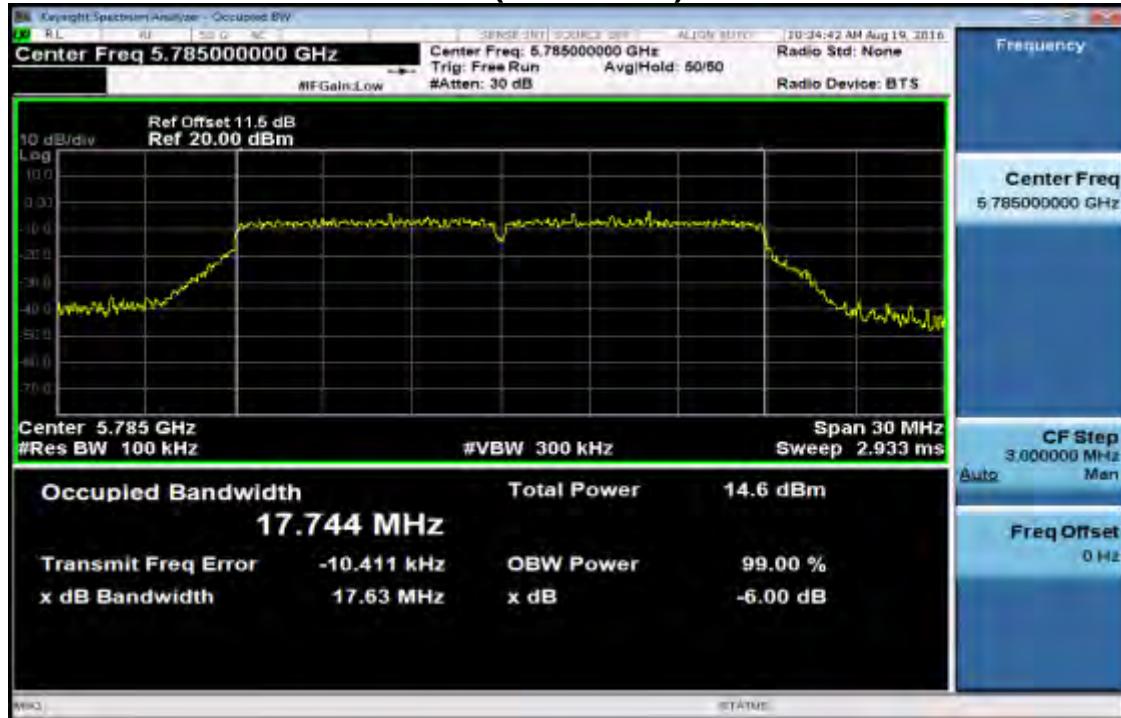
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802.11n_HT20, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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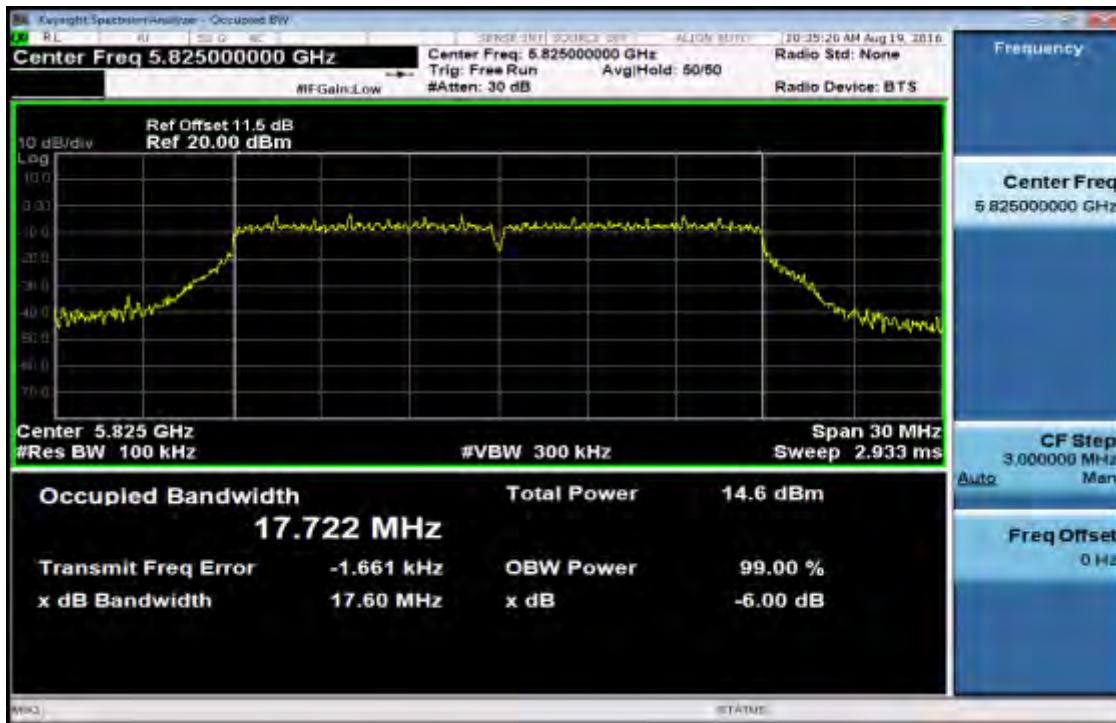
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6dB Band Width Test Data CH-High (5825 MHz)



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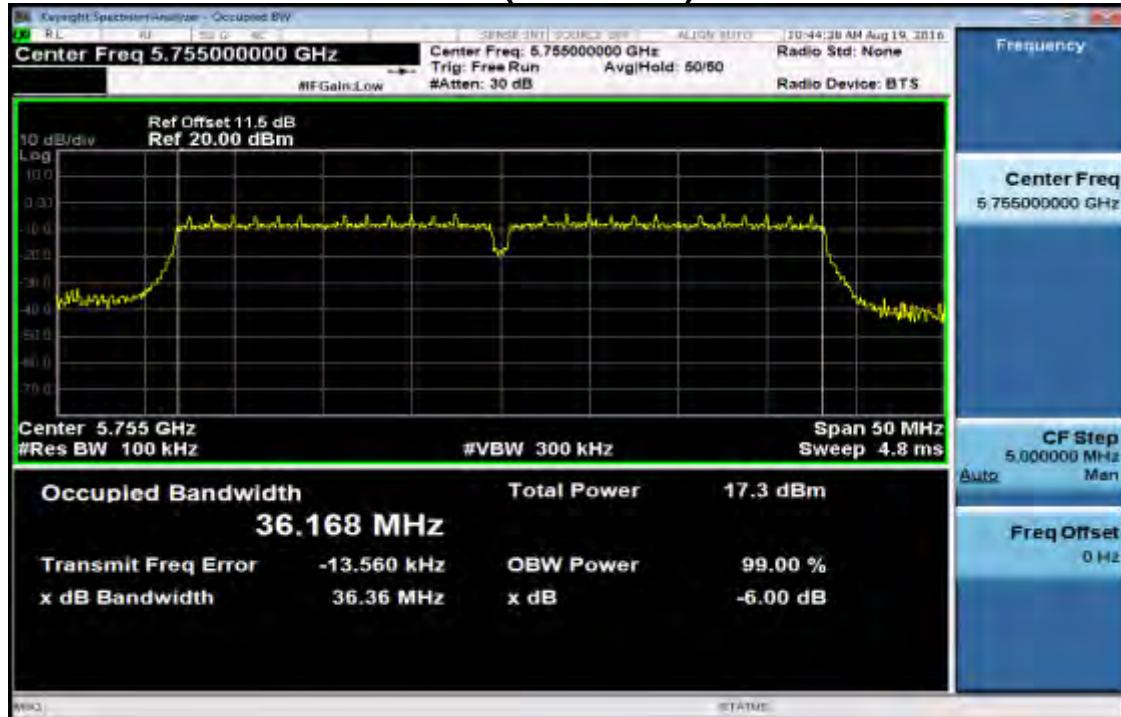
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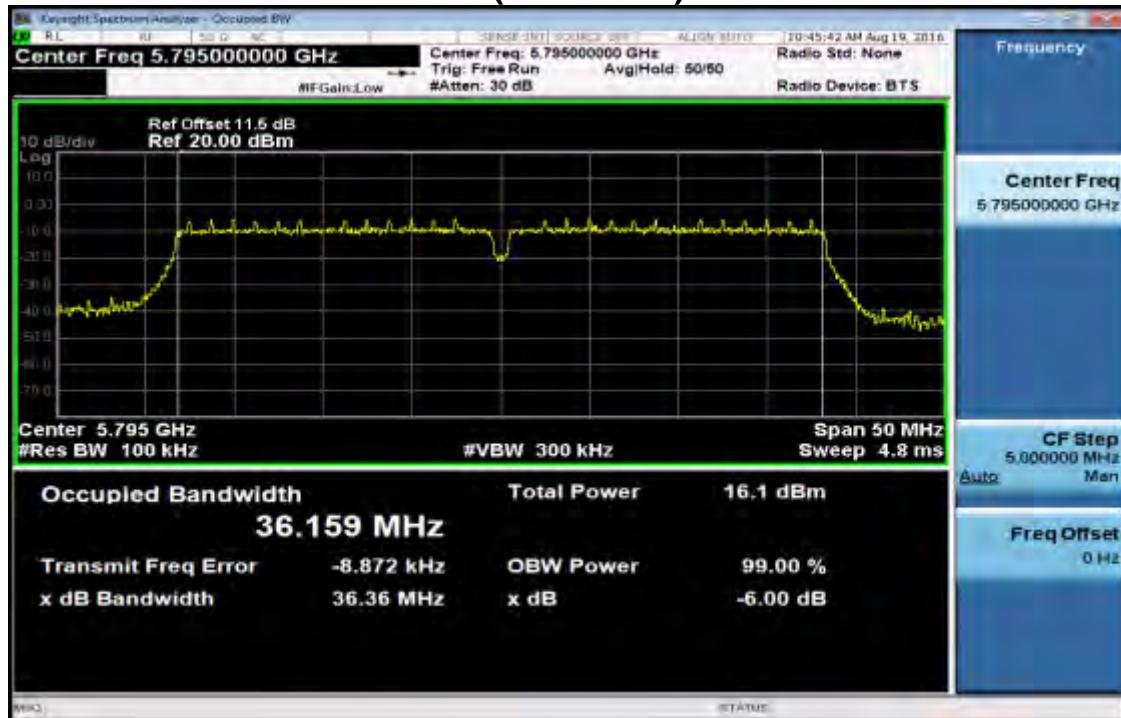
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802.11n_HT40, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5755 MHz)



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

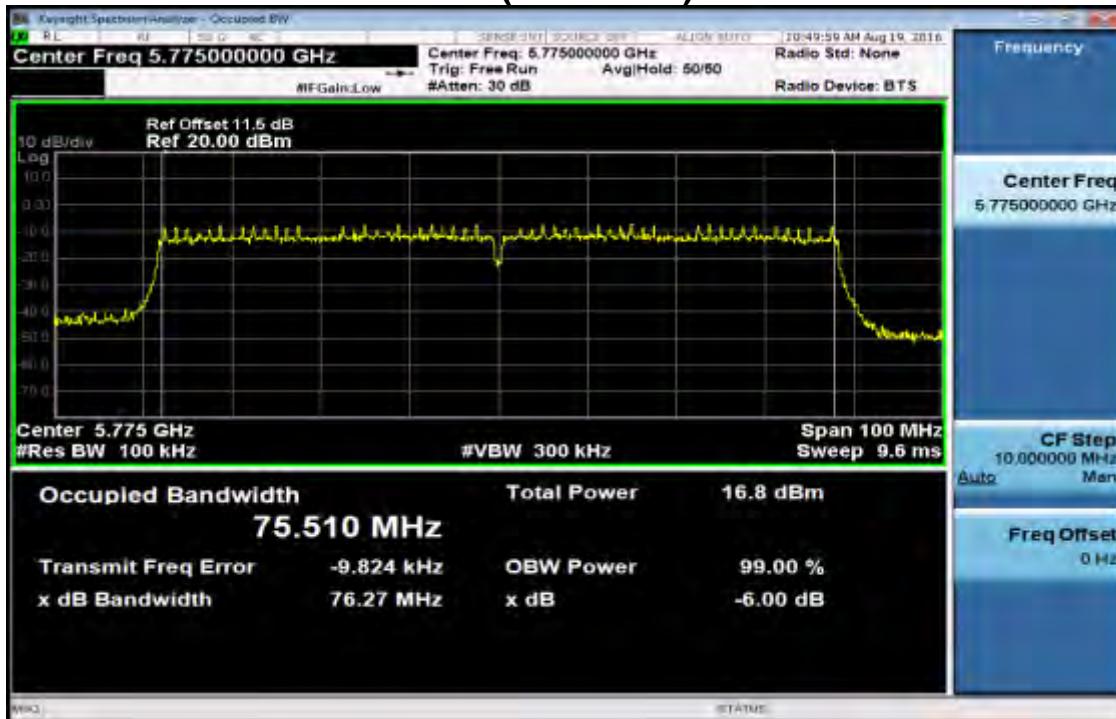


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**802.11ac VHT80, 5725~5850 MHz (Main)
6dB Band Width Test Data CH-Low (5775 MHz)**

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9. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

| OPERATION Band | EUT CATEGORY | | LIMIT |
|----------------|----------------------------------|-----------------------------------|-----------------|
| U-NII-1 | Access Point (Mater device) | | 1 Watt(30dBm) |
| | Fixed point-to-point Acess Ponit | | 1 Watt(30dBm) |
| | ✓ | clinet device | 250mW(23.98dBm) |
| U-NII-2A | ✓ | 250mW(23.98dBm) or 11dBm+10 log B | |
| U-NII-2C | ✓ | 250mW(23.98dBm) or 11dBm+10 log B | |
| U-NII-3 | ✓ | 1 Watt(30dBm) | |

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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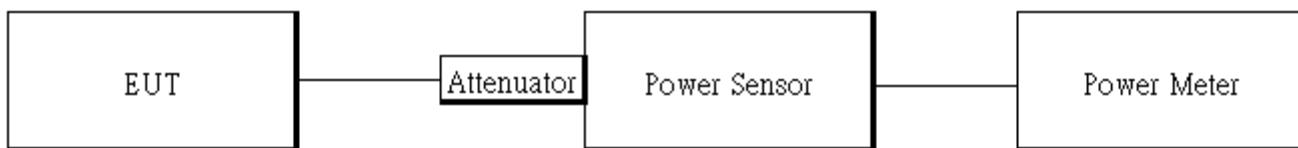
9.2 Measurement Procedure

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 $10 \log(1/\text{duty cycle})$.
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

9.3 Measurement Equipment Used

| SGS Conducted Room | | | | | |
|-----------------------|---------------|--------------|---------------|------------------|-----------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due |
| Power Meter | Anritsu | ML2495A | 1005007 | 12/09/2015 | 12/08/2016 |
| Power Sensor | Anritsu | MA2411B | 917032 | 12/09/2015 | 12/08/2016 |
| EXA Spectrum Analyzer | Agilent | N9030A | MY53120760 | 02/26/2016 | 02/25/2017 |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 01/02/2016 | 01/01/2017 |
| Coaxial Cable | HUBER+SUHNER | SUCOFLEX 102 | 23670/2 | 01/02/2016 | 01/01/2017 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 2 | 01/02/2016 | 01/01/2017 |
| Splitter | Agilent | 11636B | N/A | 01/02/2016 | 01/01/2017 |
| DC Power Supply | Agilent | E3640A | MY52410006 | 11/05/2015 | 11/04/2016 |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 05/17/2016 | 05/16/2017 |

9.4 Test Set-up



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9.5 Measurement Result

Conducted output power

802.11a_Main

| CH | Frequency (MHz) | Data Rate | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-------------------|------------------|---------------------------------|--------|
| 36 | 5180 | MCS0 | 10.45 | 11.092 | 23.98 | PASS |
| 44 | 5220 | MCS0 | 10.47 | 11.143 | 23.98 | PASS |
| 48 | 5240 | MCS0 | 10.40 | 10.965 | 23.98 | PASS |
| 52 | 5260 | MCS0 | 11.26 | 13.366 | 23.98 or $11+10\log(B) = 24.31$ | PASS |
| 60 | 5300 | MCS0 | 11.03 | 12.677 | 23.98 or $11+10\log(B) = 24.34$ | PASS |
| 64 | 5320 | MCS0 | 11.06 | 12.764 | 23.98 or $11+10\log(B) = 24.34$ | PASS |
| 100 | 5500 | MCS0 | 10.47 | 11.143 | 23.98 or $11+10\log(B) = 24.35$ | PASS |
| 116 | 5580 | MCS0 | 9.83 | 9.616 | 23.98 or $11+10\log(B) = 24.35$ | PASS |
| 140 | 5700 | MCS0 | 9.46 | 8.831 | 23.98 or $11+10\log(B) = 24.33$ | PASS |
| 149 | 5745 | MCS0 | 10.27 | 10.641 | 30 | PASS |
| 157 | 5785 | MCS0 | 9.30 | 8.511 | 30 | PASS |
| 165 | 5825 | MCS0 | 9.45 | 8.810 | 30 | PASS |

802.11n_HT20_Main

| CH | Frequency (MHz) | Data Rate | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-------------------|------------------|---------------------------------|--------|
| 36 | 5180 | MCS0 | 9.29 | 8.492 | 23.98 | PASS |
| 44 | 5220 | MCS0 | 10.50 | 11.220 | 23.98 | PASS |
| 48 | 5240 | MCS0 | 10.38 | 10.914 | 23.98 | PASS |
| 52 | 5260 | MCS0 | 11.03 | 12.677 | 23.98 or $11+10\log(B) = 24.44$ | PASS |
| 60 | 5300 | MCS0 | 11.09 | 12.853 | 23.98 or $11+10\log(B) = 24.32$ | PASS |
| 64 | 5320 | MCS0 | 10.89 | 12.274 | 23.98 or $11+10\log(B) = 24.32$ | PASS |
| 100 | 5500 | MCS0 | 10.35 | 10.839 | 23.98 or $11+10\log(B) = 24.36$ | PASS |
| 116 | 5580 | MCS0 | 9.72 | 9.376 | 23.98 or $11+10\log(B) = 24.51$ | PASS |
| 140 | 5700 | MCS0 | 9.29 | 8.492 | 23.98 or $11+10\log(B) = 24.36$ | PASS |
| 149 | 5745 | MCS0 | 10.31 | 10.740 | 30 | PASS |
| 157 | 5785 | MCS0 | 9.47 | 8.851 | 30 | PASS |
| 165 | 5825 | MCS0 | 9.34 | 8.590 | 30 | PASS |

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802.11ac_VHT20_Main

| CH | Frequency (MHz) | Data Rate | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-------------------|------------------|---------------------------------|--------|
| 36 | 5180 | MCS0 | 9.84 | 9.638 | 23.98 | PASS |
| 44 | 5220 | MCS0 | 10.45 | 11.092 | 23.98 | PASS |
| 48 | 5240 | MCS0 | 10.42 | 11.015 | 23.98 | PASS |
| 52 | 5260 | MCS0 | 11.14 | 13.002 | 23.98 or $11+10\log(B) = 24.44$ | PASS |
| 60 | 5300 | MCS0 | 11.06 | 12.764 | 23.98 or $11+10\log(B) = 24.32$ | PASS |
| 64 | 5320 | MCS0 | 11.03 | 12.677 | 23.98 or $11+10\log(B) = 24.32$ | PASS |
| 100 | 5500 | MCS0 | 10.35 | 10.839 | 23.98 or $11+10\log(B) = 24.36$ | PASS |
| 116 | 5580 | MCS0 | 9.78 | 9.506 | 23.98 or $11+10\log(B) = 24.51$ | PASS |
| 140 | 5700 | MCS0 | 9.30 | 8.511 | 23.98 or $11+10\log(B) = 24.36$ | PASS |
| 149 | 5745 | MCS0 | 10.28 | 10.666 | 30 | PASS |
| 157 | 5785 | MCS0 | 9.42 | 8.750 | 30 | PASS |
| 165 | 5825 | MCS0 | 9.43 | 8.770 | 30 | PASS |

802.11n_HT40_Main

| CH | Frequency (MHz) | Data Rate | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-------------------|------------------|---------------------------------|--------|
| 38 | 5190 | MCS0 | 9.09 | 8.110 | 23.98 | PASS |
| 46 | 5230 | MCS0 | 10.58 | 11.429 | 23.98 | PASS |
| 54 | 5270 | MCS0 | 9.28 | 8.472 | 23.98 or $11+10\log(B) = 27.00$ | PASS |
| 62 | 5310 | MCS0 | 9.22 | 8.356 | 23.98 or $11+10\log(B) = 27.01$ | PASS |
| 102 | 5510 | MCS0 | 7.98 | 6.281 | 23.98 or $11+10\log(B) = 27.01$ | PASS |
| 110 | 5550 | MCS0 | 10.19 | 10.447 | 23.98 or $11+10\log(B) = 27.51$ | PASS |
| 134 | 5670 | MCS0 | 9.62 | 9.162 | 23.98 or $11+10\log(B) = 27.04$ | PASS |
| 151 | 5755 | MCS0 | 10.59 | 11.455 | 30 | PASS |
| 159 | 5795 | MCS0 | 9.68 | 9.290 | 30 | PASS |

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802.11ac_VHT40_Main

| CH | Frequency (MHz) | Data Rate | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-------------------|------------------|---------------------------------|--------|
| 38 | 5190 | MCS0 | 9.13 | 8.185 | 23.98 | PASS |
| 46 | 5230 | MCS0 | 10.65 | 11.614 | 23.98 | PASS |
| 54 | 5270 | MCS0 | 9.35 | 8.610 | 23.98 or $11+10\log(B) = 27.00$ | PASS |
| 62 | 5310 | MCS0 | 9.18 | 8.279 | 23.98 or $11+10\log(B) = 27.01$ | PASS |
| 102 | 5510 | MCS0 | 10.55 | 11.350 | 23.98 or $11+10\log(B) = 27.01$ | PASS |
| 110 | 5550 | MCS0 | 10.31 | 10.740 | 23.98 or $11+10\log(B) = 27.51$ | PASS |
| 134 | 5670 | MCS0 | 9.68 | 9.290 | 23.98 or $11+10\log(B) = 27.04$ | PASS |
| 151 | 5755 | MCS0 | 10.57 | 11.402 | 30 | PASS |
| 159 | 5795 | MCS0 | 9.77 | 9.484 | 30 | PASS |

802.11ac_VHT80_Main

| CH | Frequency (MHz) | Data Rate | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-------------------|------------------|---------------------------------|--------|
| 42 | 5210 | MCS0 | 8.77 | 7.534 | 23.98 | PASS |
| 58 | 5290 | MCS0 | 10.71 | 11.776 | 23.98 or $11+10\log(B) = 30.10$ | PASS |
| 106 | 5530 | MCS0 | 7.89 | 6.152 | 23.98 or $11+10\log(B) = 30.13$ | PASS |
| 122 | 5610 | MCS0 | 9.16 | 8.241 | 23.98 or $11+10\log(B) = 30.12$ | PASS |
| 155 | 5775 | MCS0 | 10.37 | 10.889 | 30 | PASS |

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10. PEAK POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

| OPERATION Band | EUT CATEGORY | | LIMIT |
|----------------|--------------|----------------------------------|---------------|
| U-NII-1 | | Access Point (Mater device) | 17dBm/ MHz |
| | | Fixed point-to-point Acess Ponit | |
| | √ | Clinet Device | 11dBm/ MHz |
| U-NII-2A | √ | | 11dBm/ MHz |
| U-NII-2C | √ | | 11dBm/ MHz |
| U-NII-3 | √ | | 30dBm/ 500kHz |

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

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10.2 Measurement Procedure

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

Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)

For U-NII-3 Band:

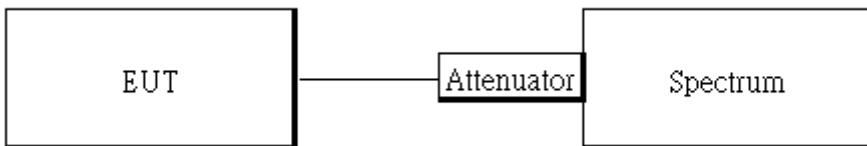
Set RBW=500 kHz, VBW \geq 3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)

5. User the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add $10 \log(1/\text{duty cycle})$.
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 |
| EXA Spectrum Analyzer | Agilent | N9030A | MY53120760 | 02/26/2016 | 02/25/2017 |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 01/02/2016 | 01/01/2017 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 2 | 01/02/2016 | 01/01/2017 |

10.4 Test Set-up



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10.5 Measurement Result

| POWER DENSITY 802.11a MODE | | | |
|----------------------------|------------|-------------|-------------|
| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
| 5180 | -3.88 | 17 | -20.88 |
| 5220 | -4.55 | 17 | -21.55 |
| 5240 | -4.06 | 17 | -21.06 |
| 5260 | -3.54 | 11 | -14.54 |
| 5300 | -3.80 | 11 | -14.80 |
| 5320 | -3.38 | 11 | -14.38 |
| 5500 | -4.42 | 11 | -15.42 |
| 5580 | -5.00 | 11 | -16.00 |
| 5700 | -4.52 | 11 | -15.52 |
| 5745 | 3.28 | 30 | -26.72 |
| 5785 | 2.15 | 30 | -27.85 |
| 5825 | 2.42 | 30 | -27.58 |

| POWER DENSITY 802.11n HT20 MODE | | | |
|---------------------------------|------------|-------------|-------------|
| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
| 5180 | -3.95 | 17 | -20.95 |
| 5220 | -4.43 | 17 | -21.43 |
| 5240 | -4.22 | 17 | -21.22 |
| 5260 | -4.14 | 11 | -15.14 |
| 5300 | -3.08 | 11 | -14.08 |
| 5320 | -3.14 | 11 | -14.14 |
| 5500 | -4.13 | 11 | -15.13 |
| 5580 | -4.74 | 11 | -15.74 |
| 5700 | -4.90 | 11 | -15.90 |
| 5745 | 2.94 | 30 | -27.06 |
| 5785 | 1.72 | 30 | -28.28 |
| 5825 | 1.50 | 30 | -28.50 |

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| POWER DENSITY 802.11n HT40 MODE | | | |
|---------------------------------|------------|-------------|-------------|
| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
| 5190 | -9.87 | 17 | -26.87 |
| 5230 | -7.42 | 17 | -24.42 |
| 5270 | -9.03 | 11 | -20.03 |
| 5310 | -9.15 | 11 | -20.15 |
| 5510 | -7.77 | 11 | -18.77 |
| 5550 | -7.61 | 11 | -18.61 |
| 5670 | -7.99 | 11 | -18.99 |
| 5755 | -0.01 | 30 | -30.01 |
| 5795 | -0.72 | 30 | -30.72 |

| POWER DENSITY 802.11ac VHT80 MODE | | | |
|-----------------------------------|------------|-------------|-------------|
| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
| 5210 | -13.97 | 17 | -30.97 |
| 5290 | -12.13 | 11 | -23.13 |
| 5530 | -12.64 | 11 | -23.64 |
| 5610 | -12.46 | 11 | -23.46 |
| 5775 | -2.31 | 30 | -32.31 |

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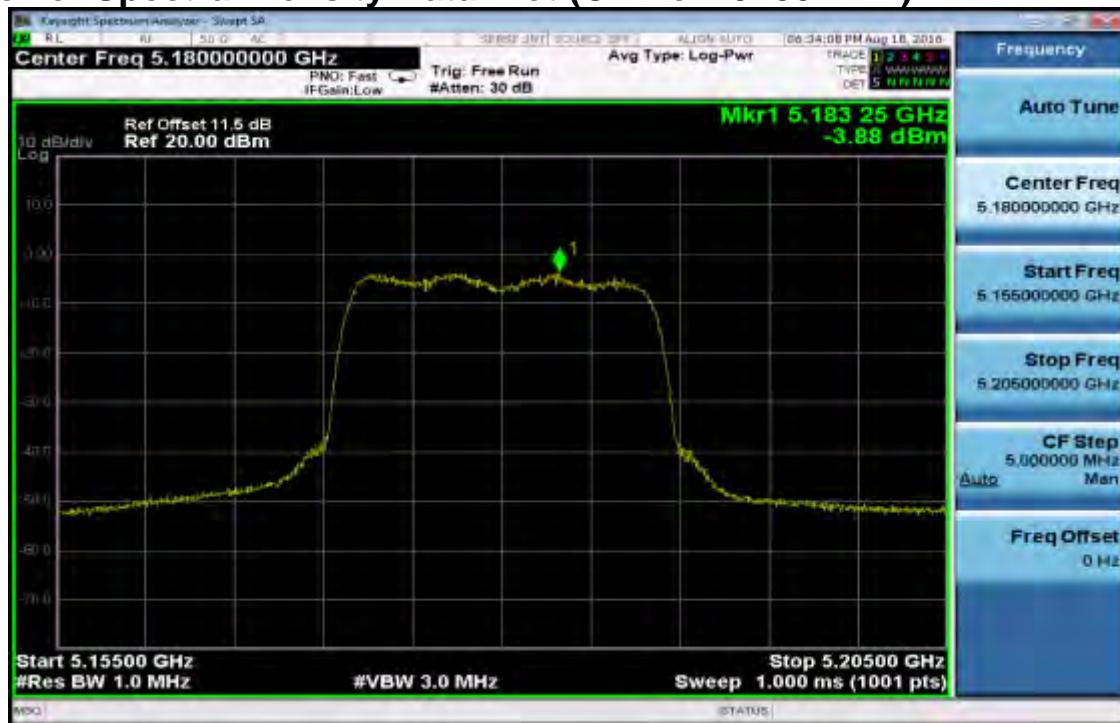
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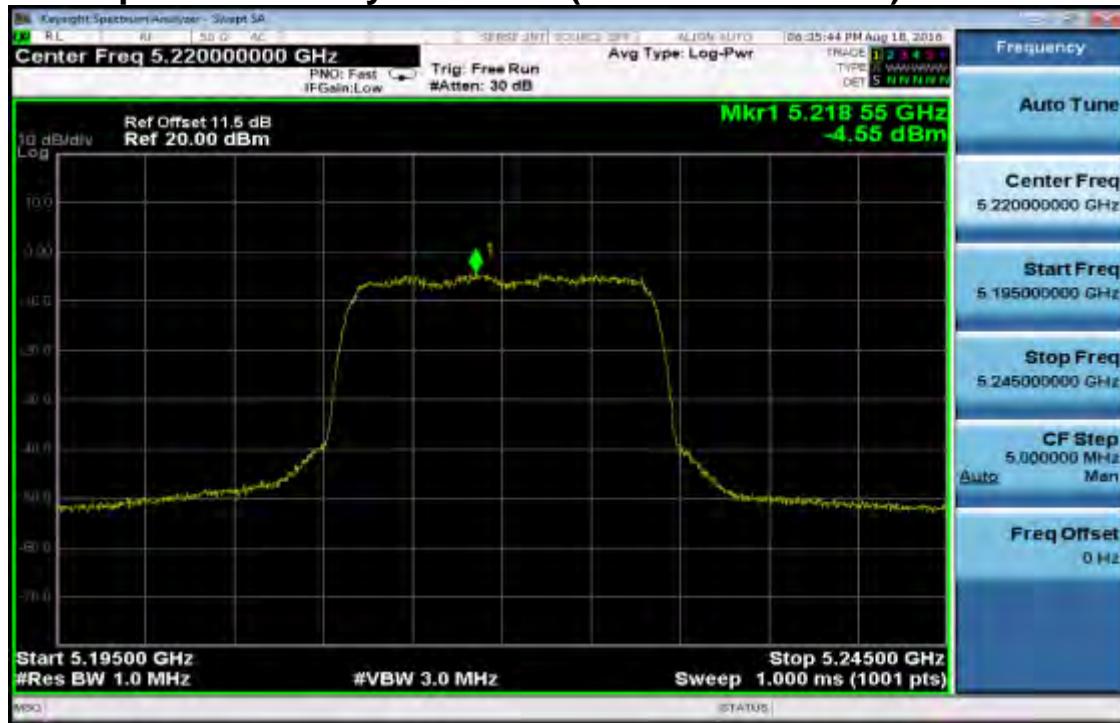
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802.11a 5150~5250 MHz

Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



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



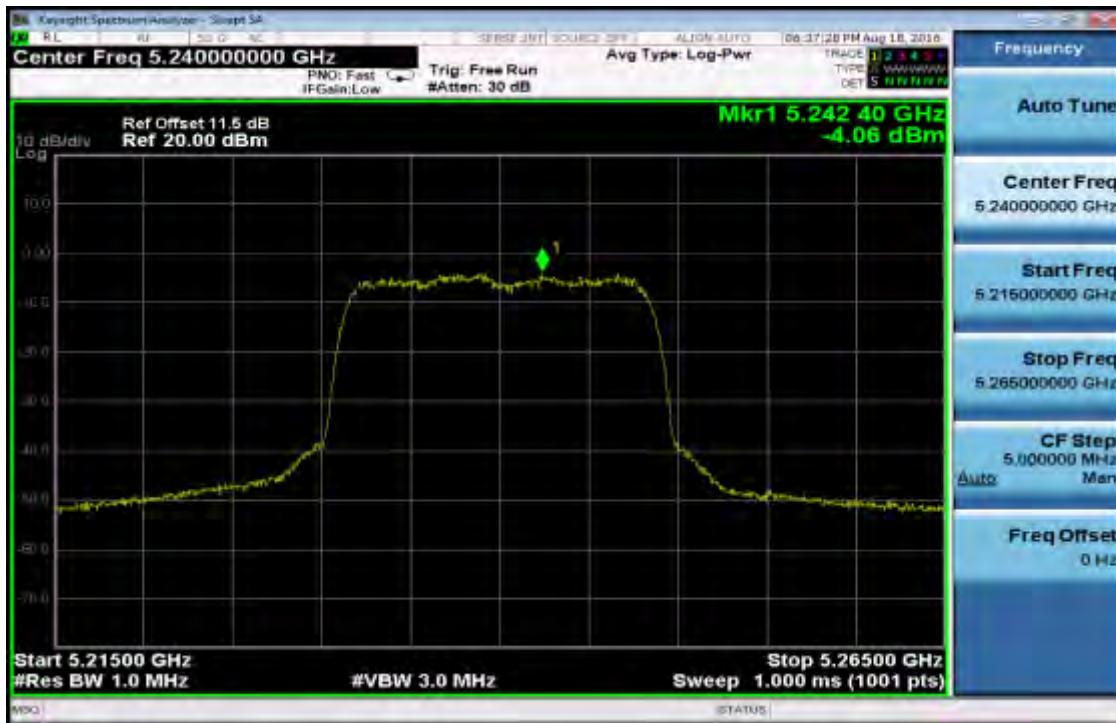
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Peak Power Spectral Density Data Plot (CH High 5240 MHz)



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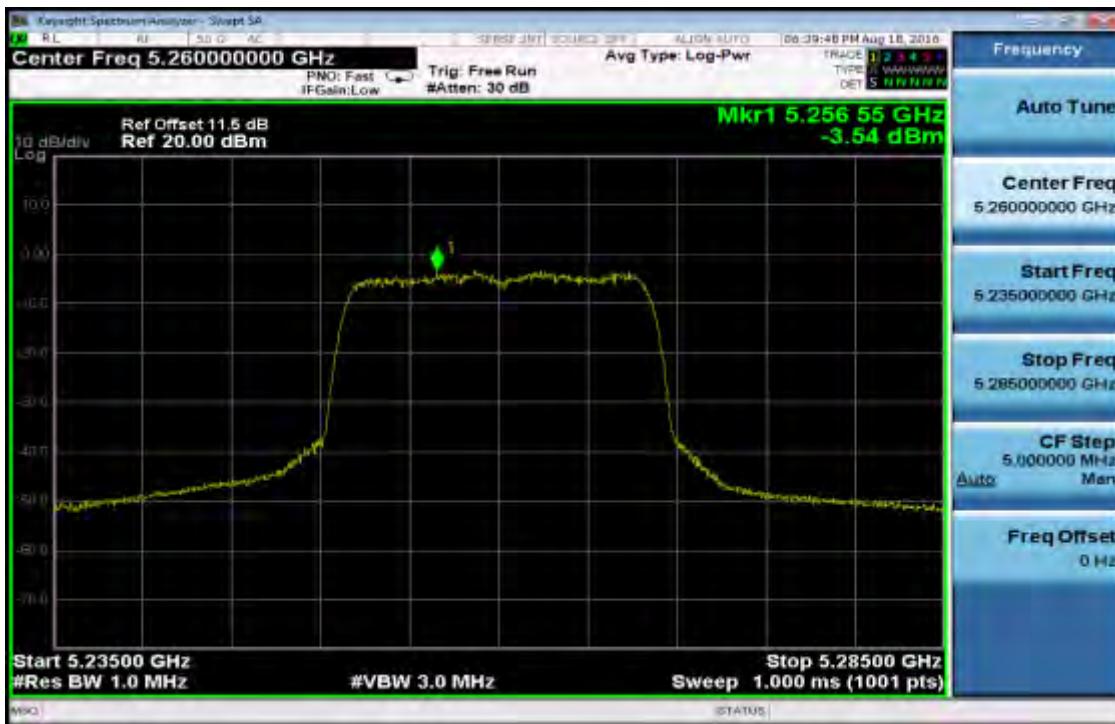
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802.11a 5250~5350 MHz

Peak Power Spectral Density Data Plot (CH Low 5260 MHz)



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



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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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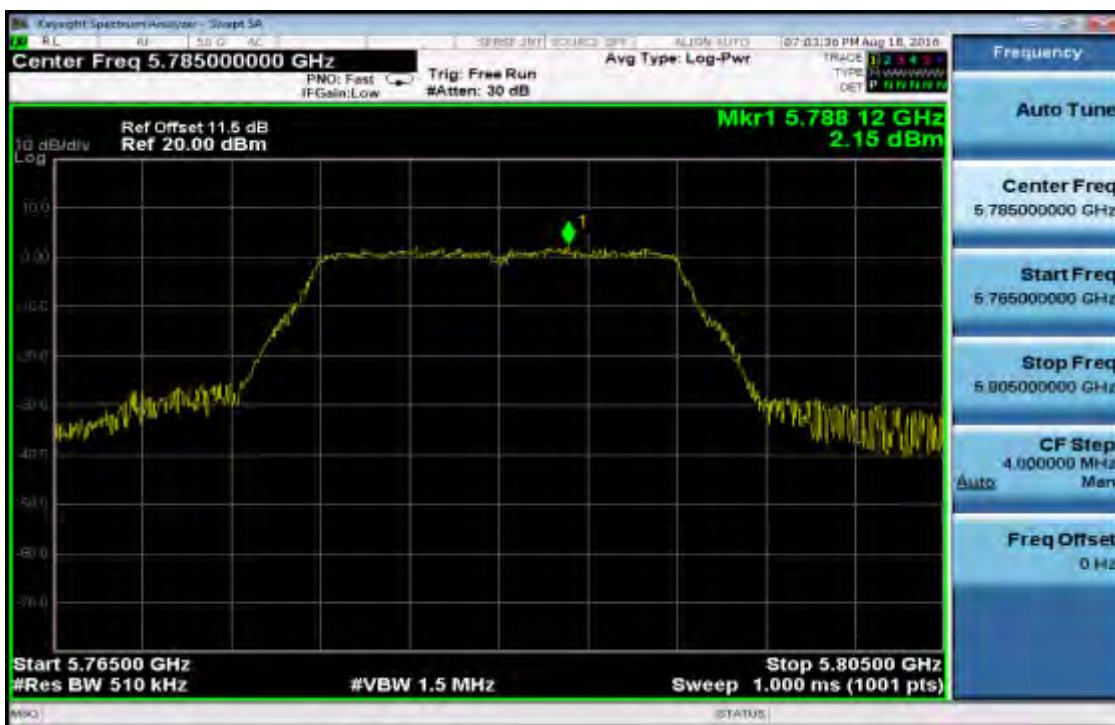
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802.11a 5725~5850 MHz

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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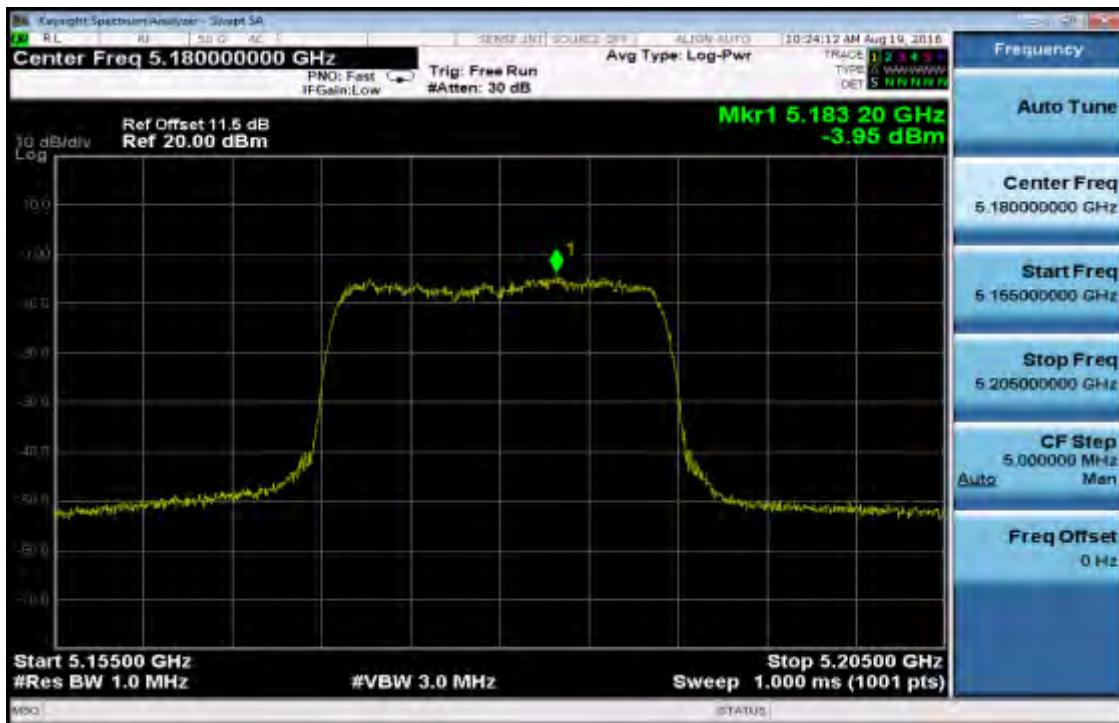
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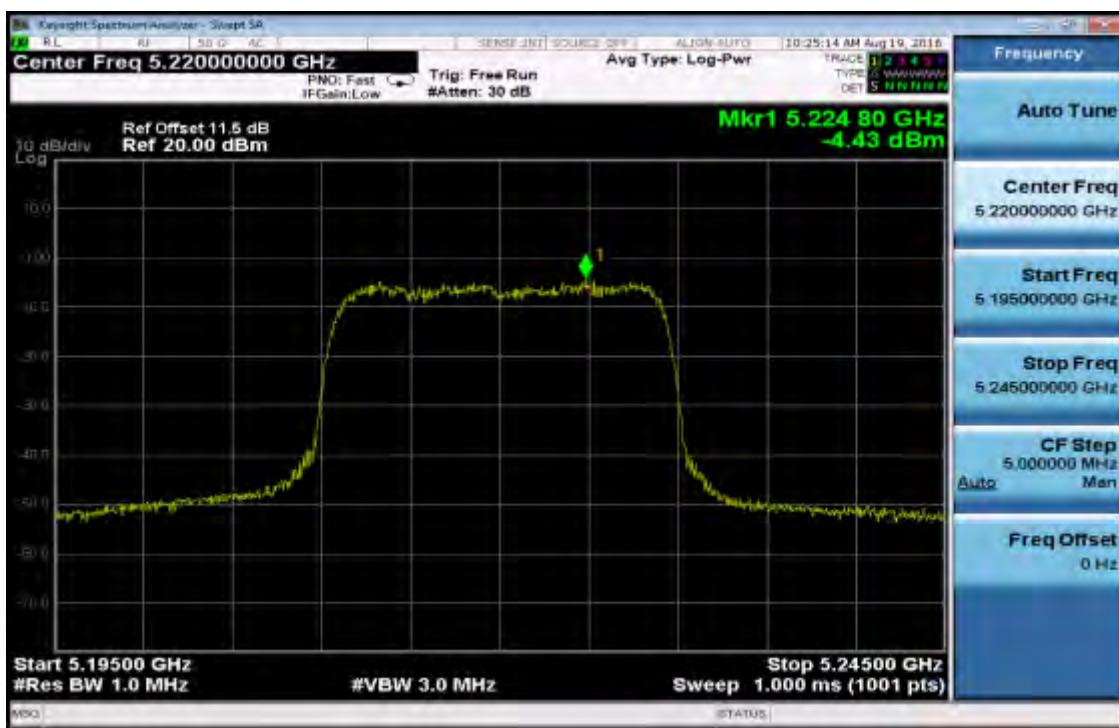
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802.11n HT20, 5150~5250 MHz

Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



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



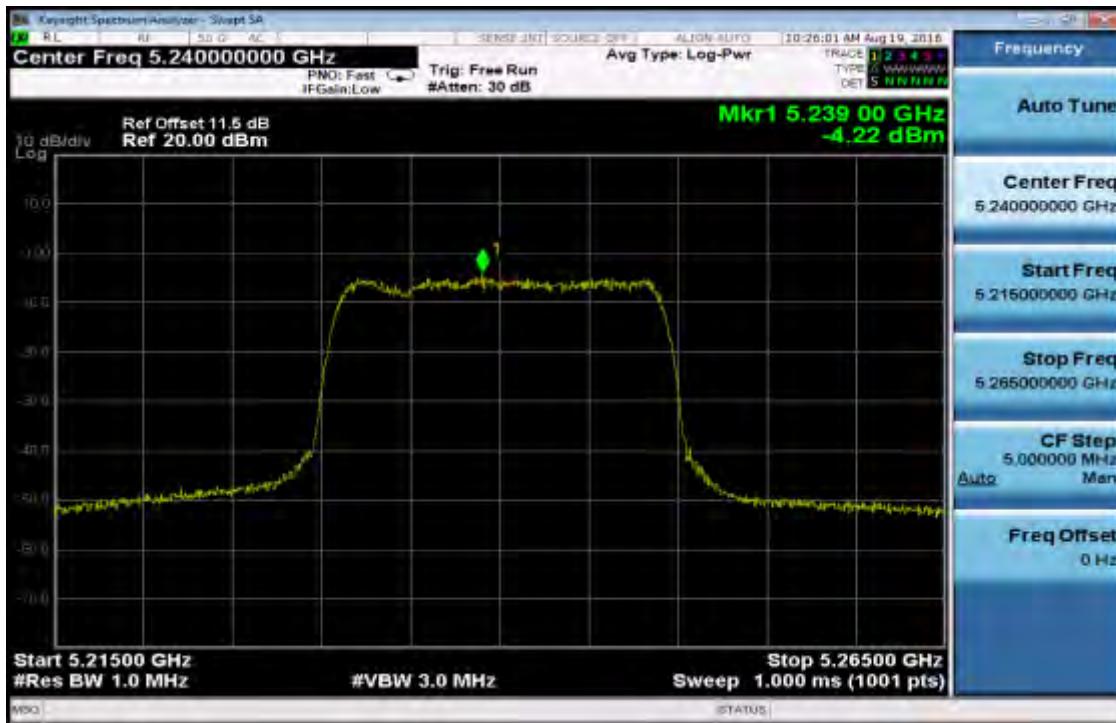
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Peak Power Spectral Density Data Plot (CH High 5240 MHz)



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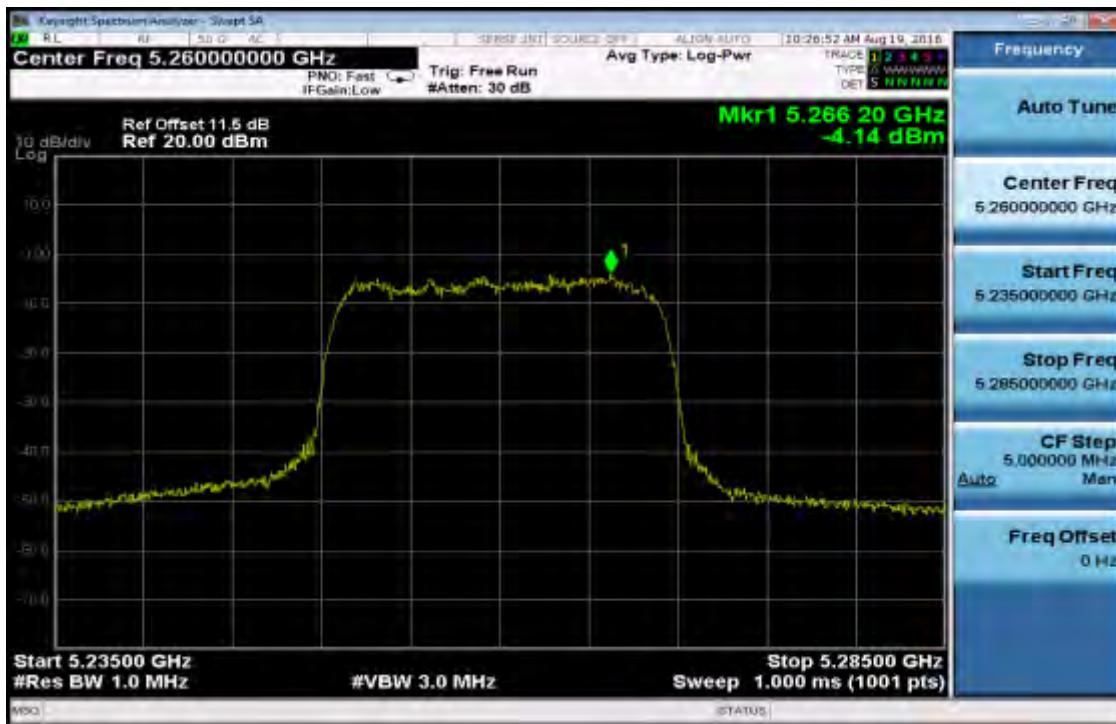
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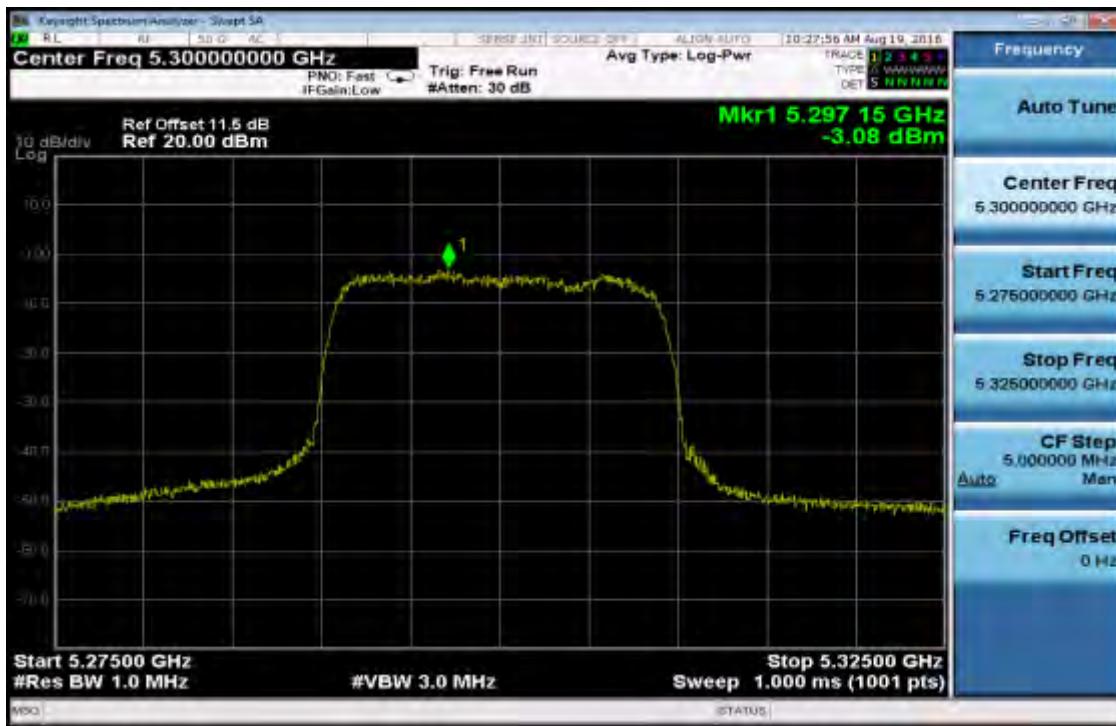
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802.11n HT20, 5250~5350 MHz

Peak Power Spectral Density Data Plot (CH Low 5260MHz)



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



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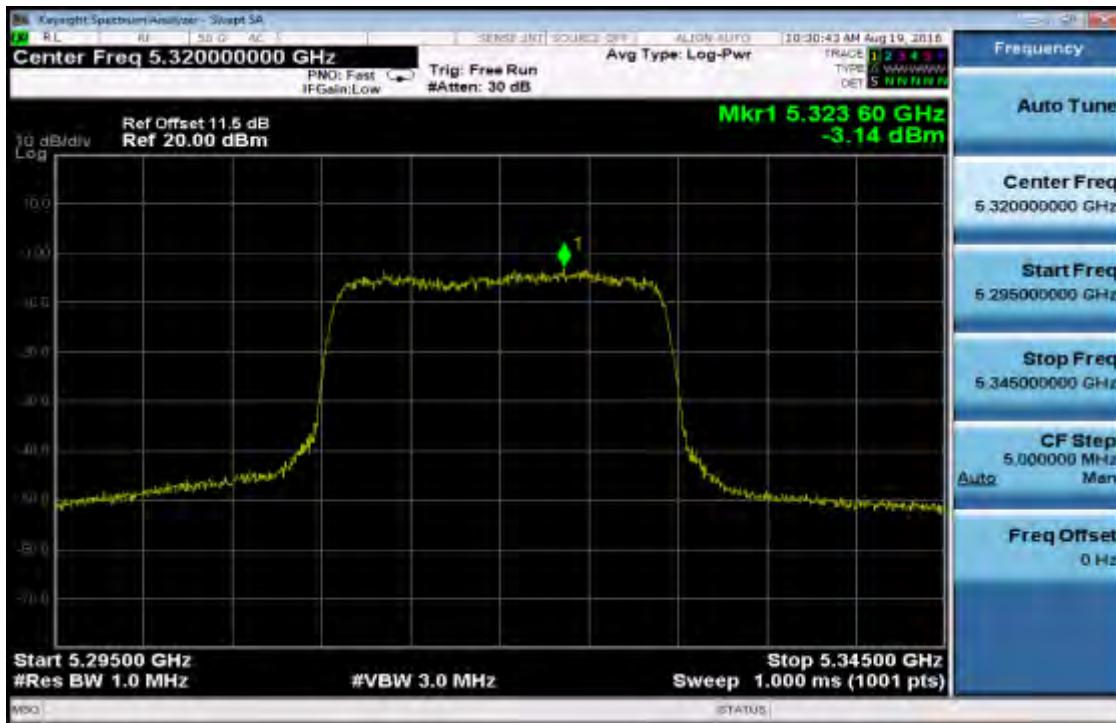
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Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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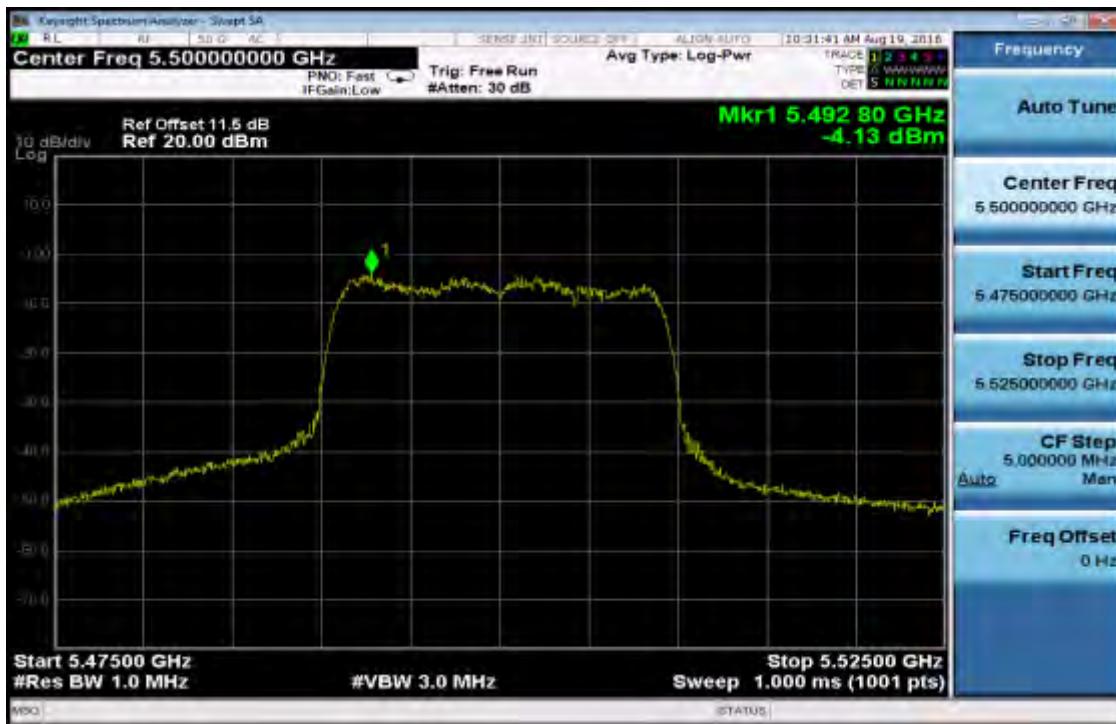
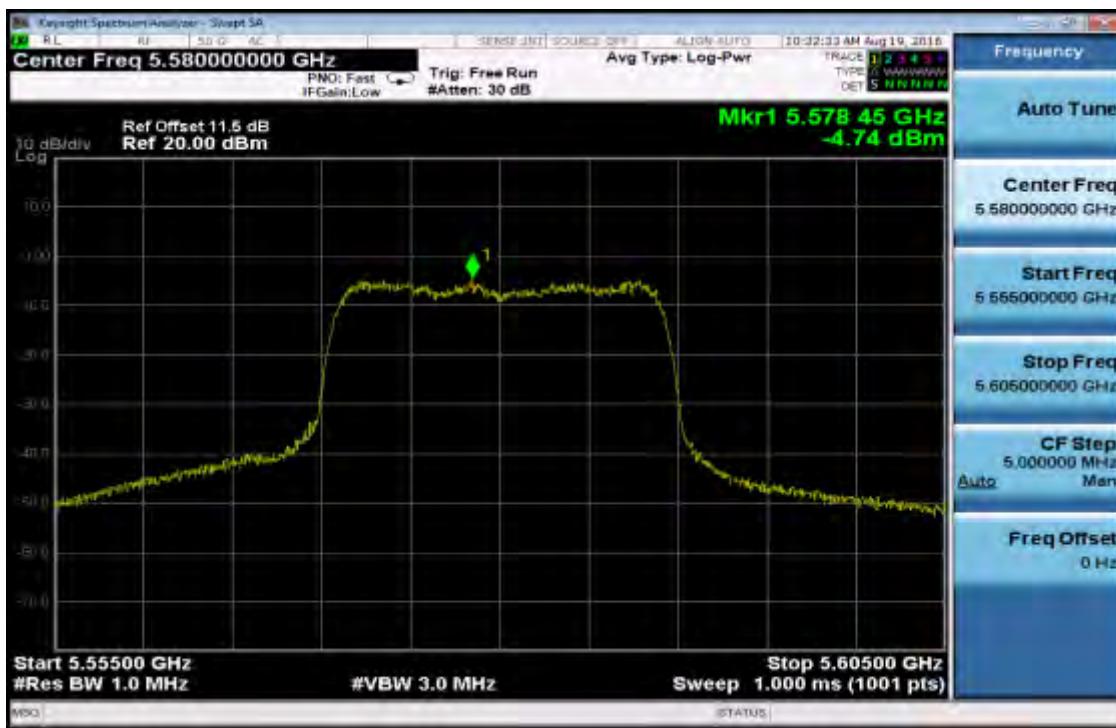
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802.11n HT20, 5470~5725 MHz**Peak Power Spectral Density Data Plot (CH Low 5500 MHz)****Peak Power Spectral Density Data Plot (CH Mid 5580MHz)**

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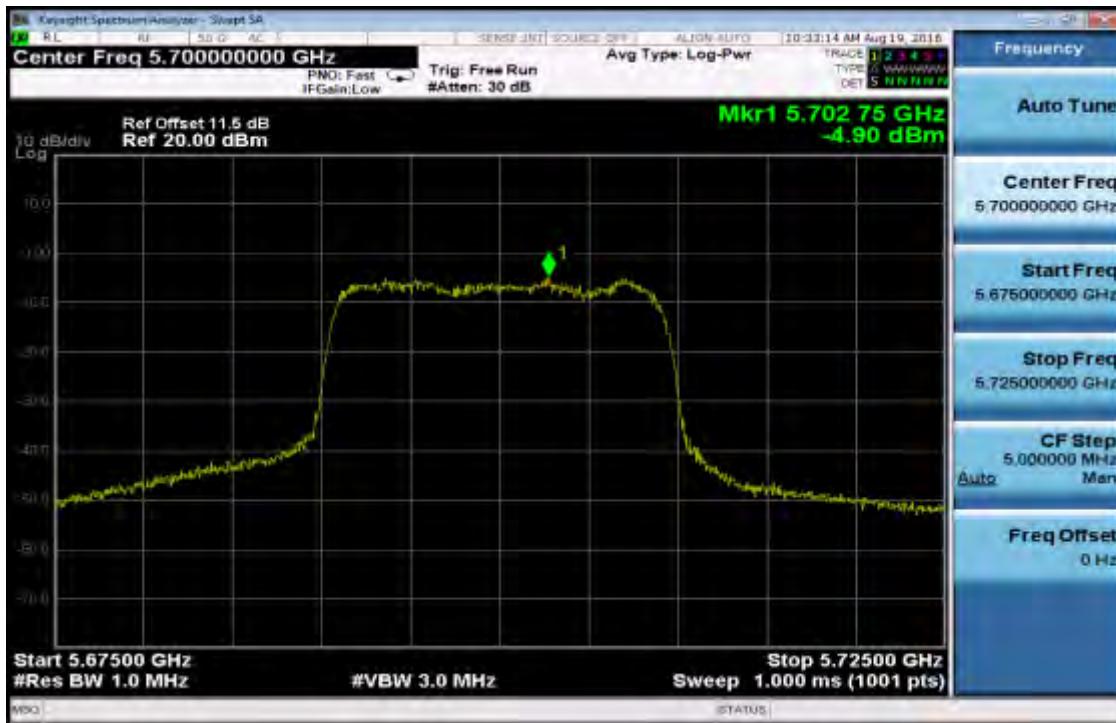
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Peak Power Spectral Density Data Plot (CH High 5700 MHz)



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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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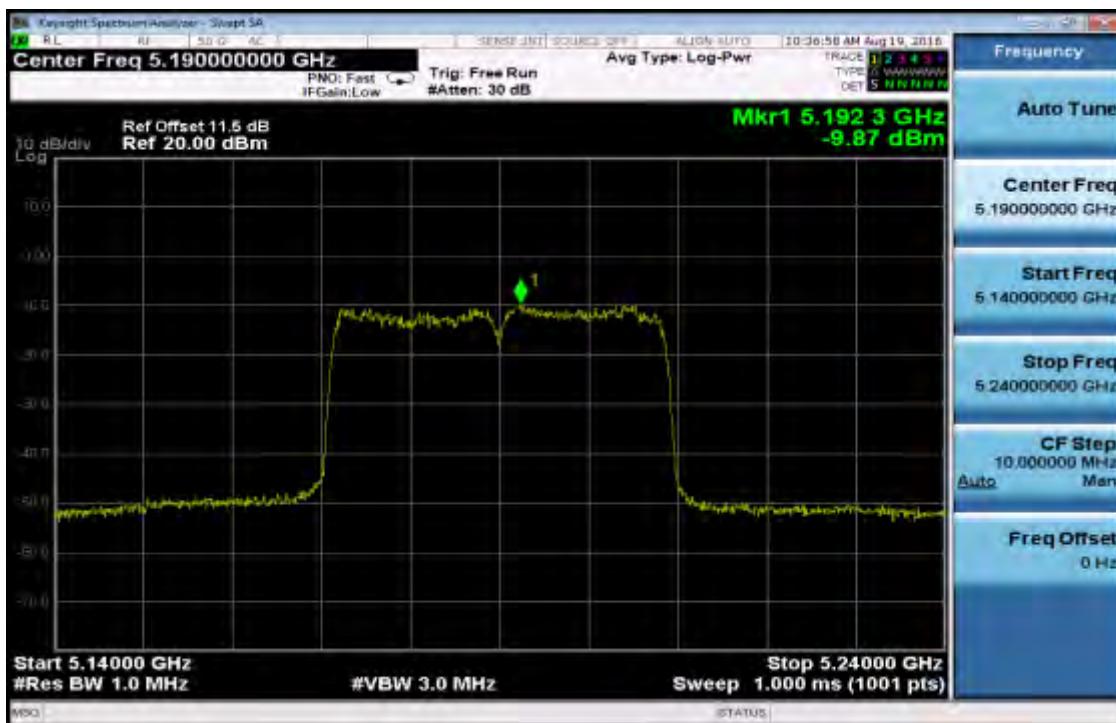
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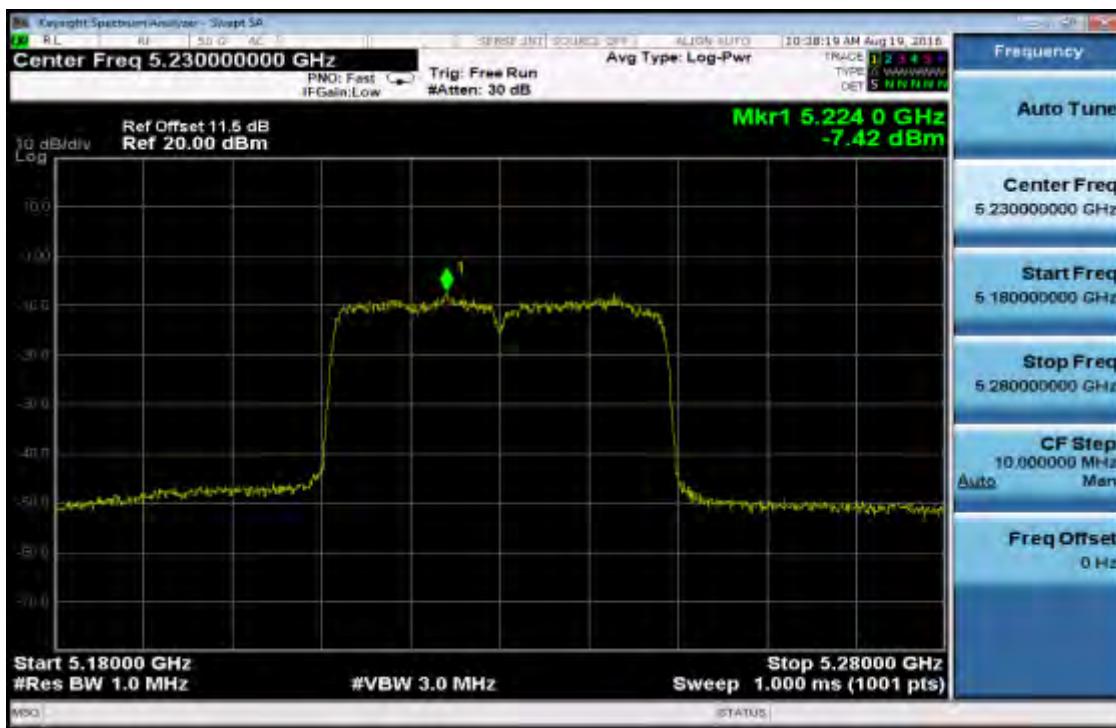
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802.11n HT40, 5150~5250 MHz

Peak Power Spectral Density Data Plot (CH Low 5190 MHz)



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



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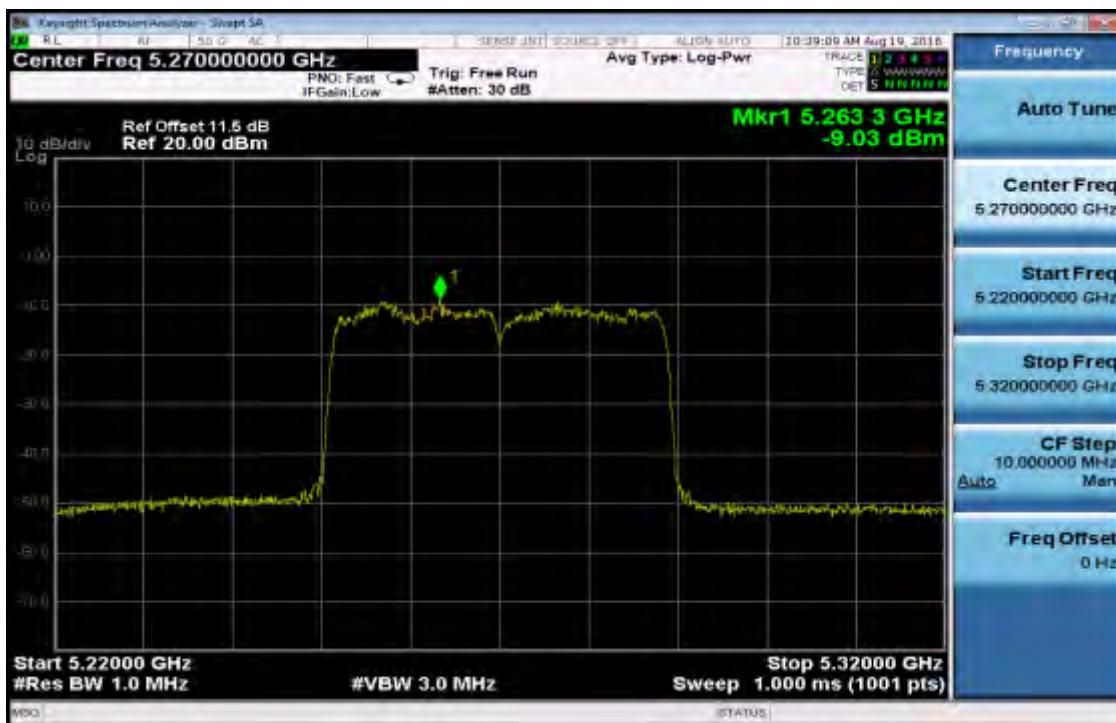
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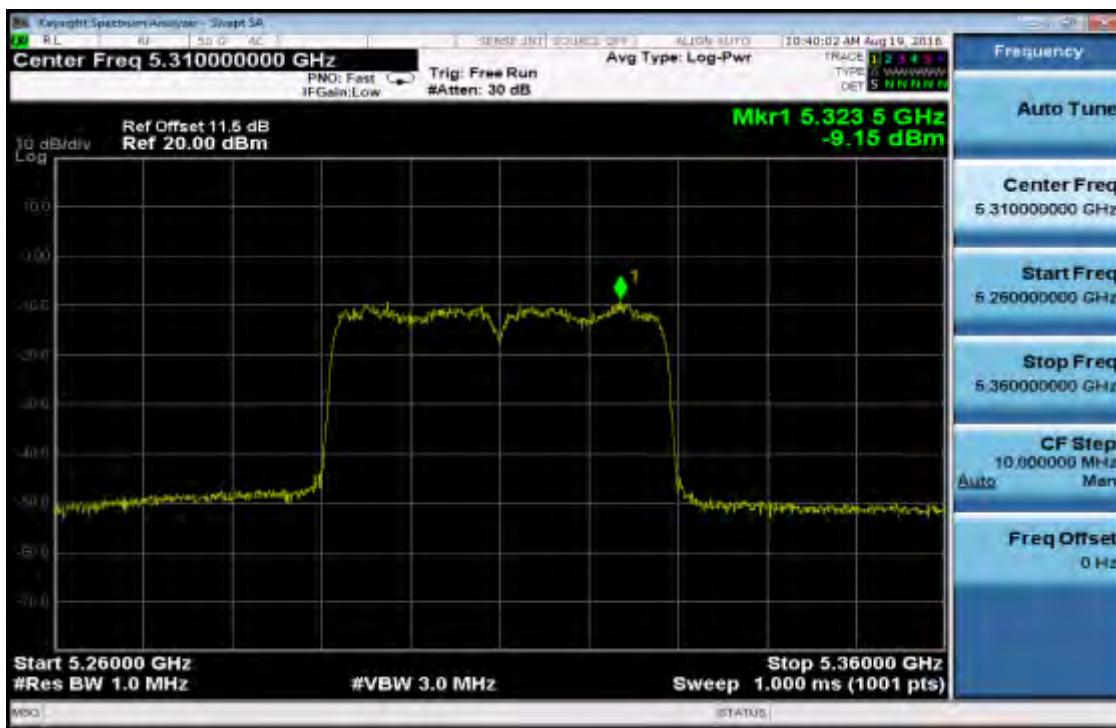
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802.11n HT40, 5250~5350 MHz

Peak Power Spectral Density Data Plot (CH Low 5270 MHz)



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

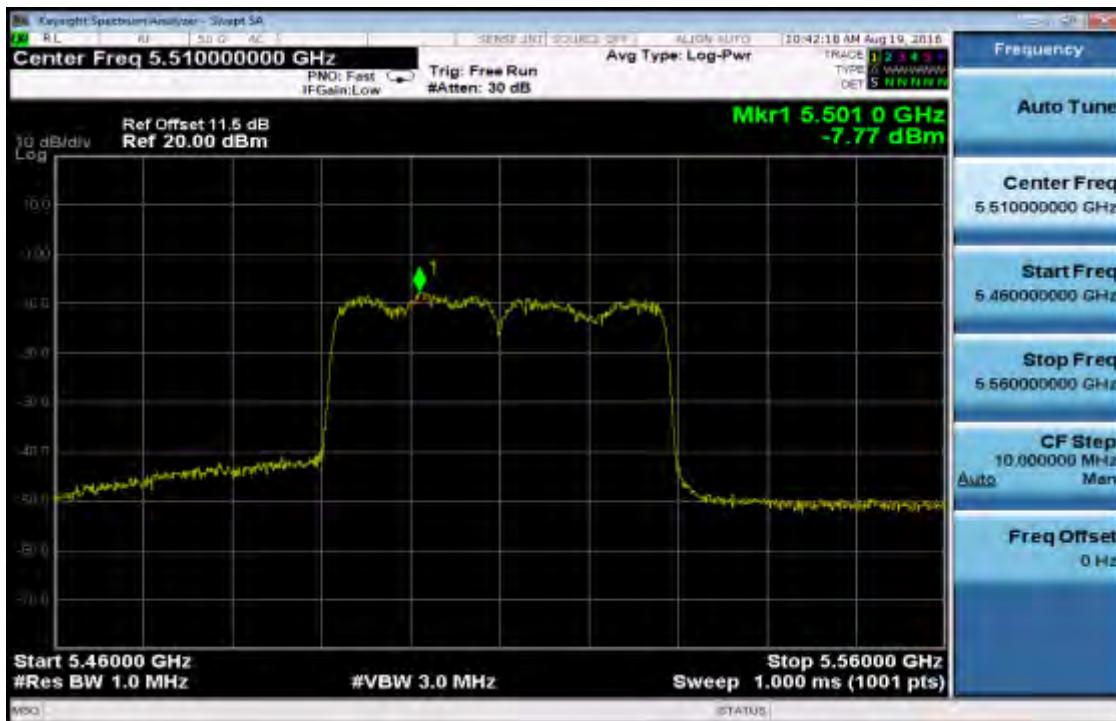
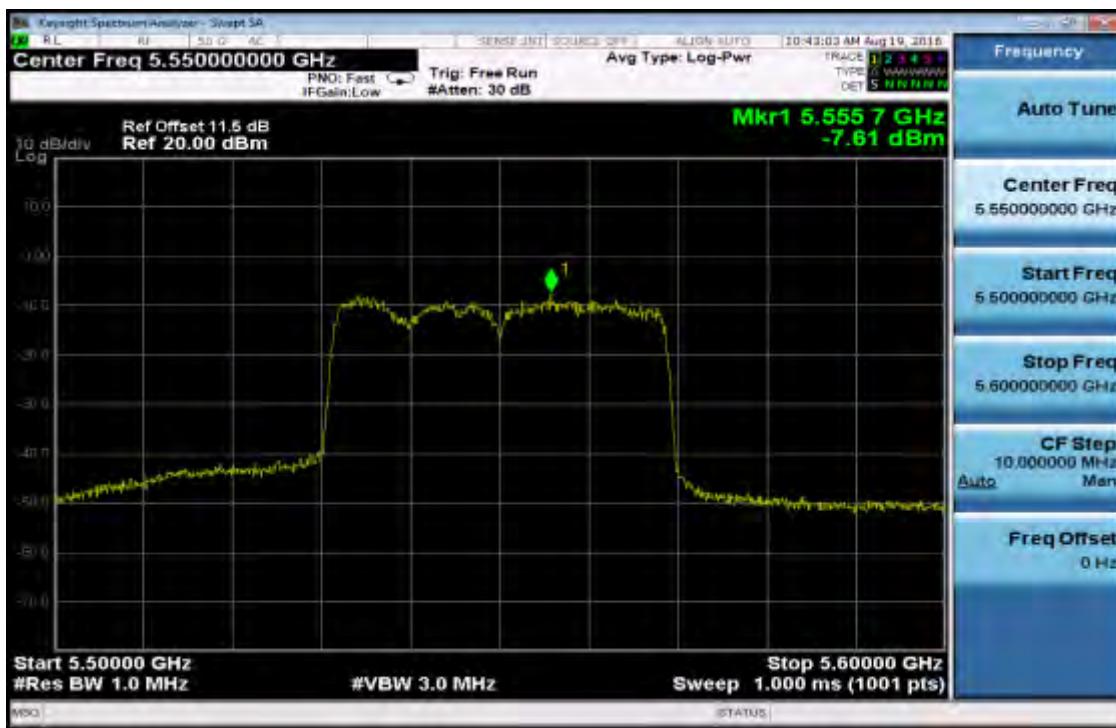


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802.11n HT40, 5470~5725 MHz**Peak Power Spectral Density Data Plot (CH Low 5510 MHz)****Peak Power Spectral Density Data Plot (CH Mid 5550 MHz)**

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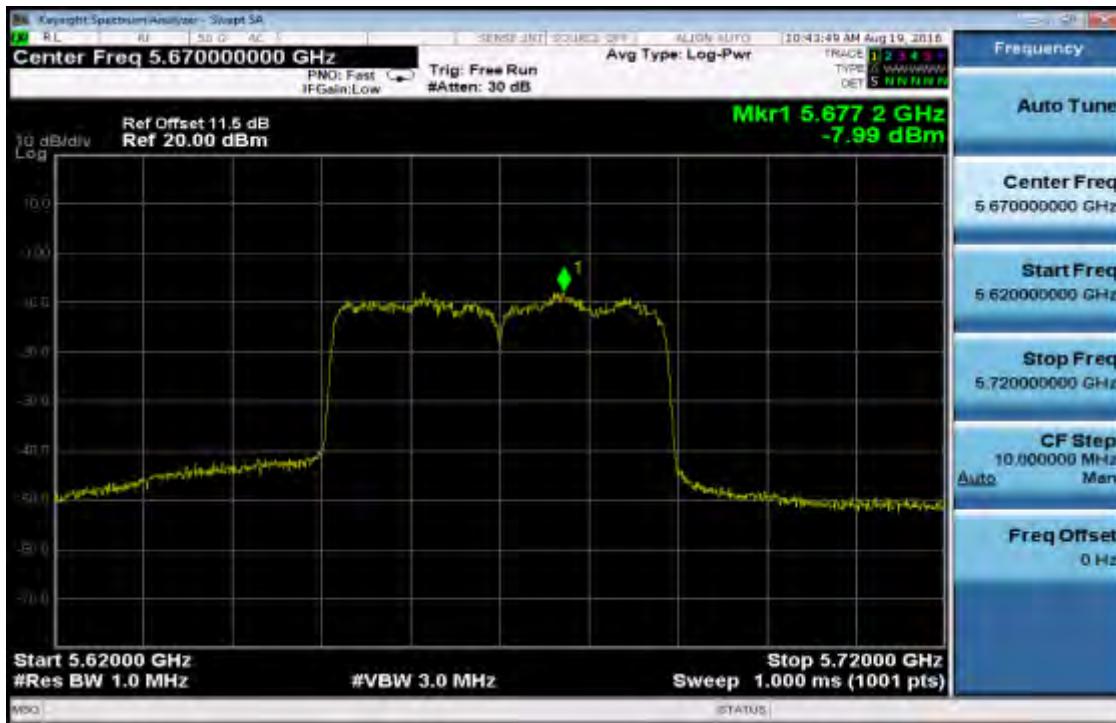
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Peak Power Spectral Density Data Plot (CH High 5670 MHz)



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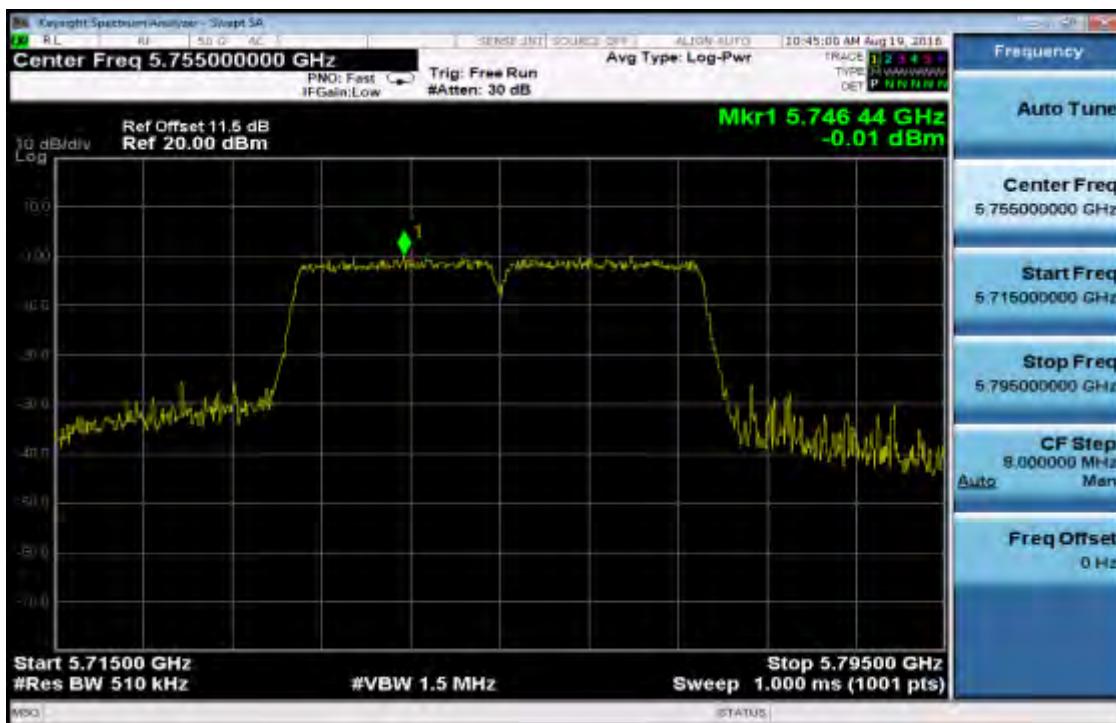
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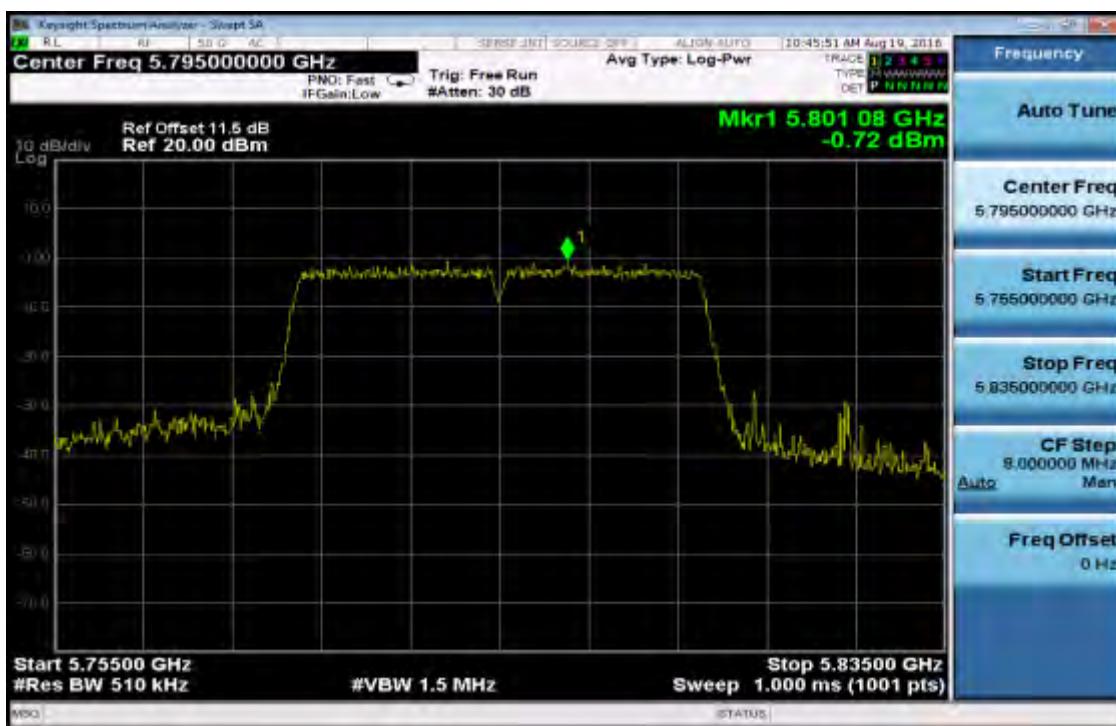
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802.11n HT40, 5725~5850 MHz

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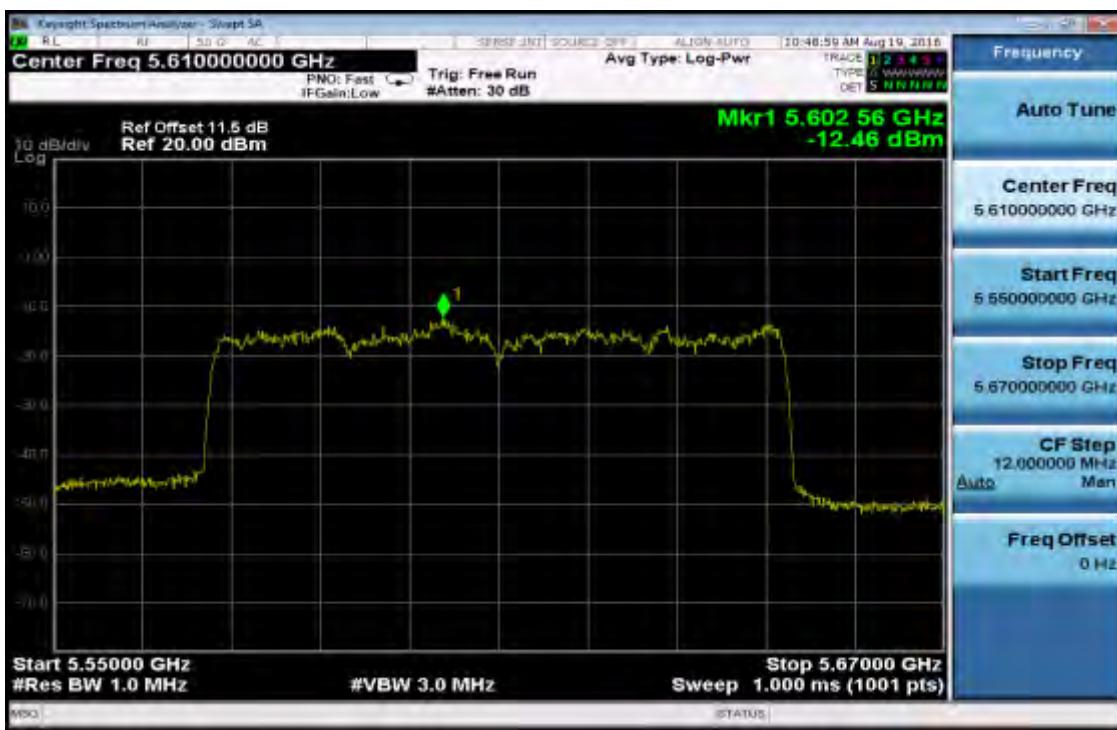
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802.11ac VHT80, 5470~5725 MHz Peak Power Spectral Density Data Plot (CH Low 5530 MHz)



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



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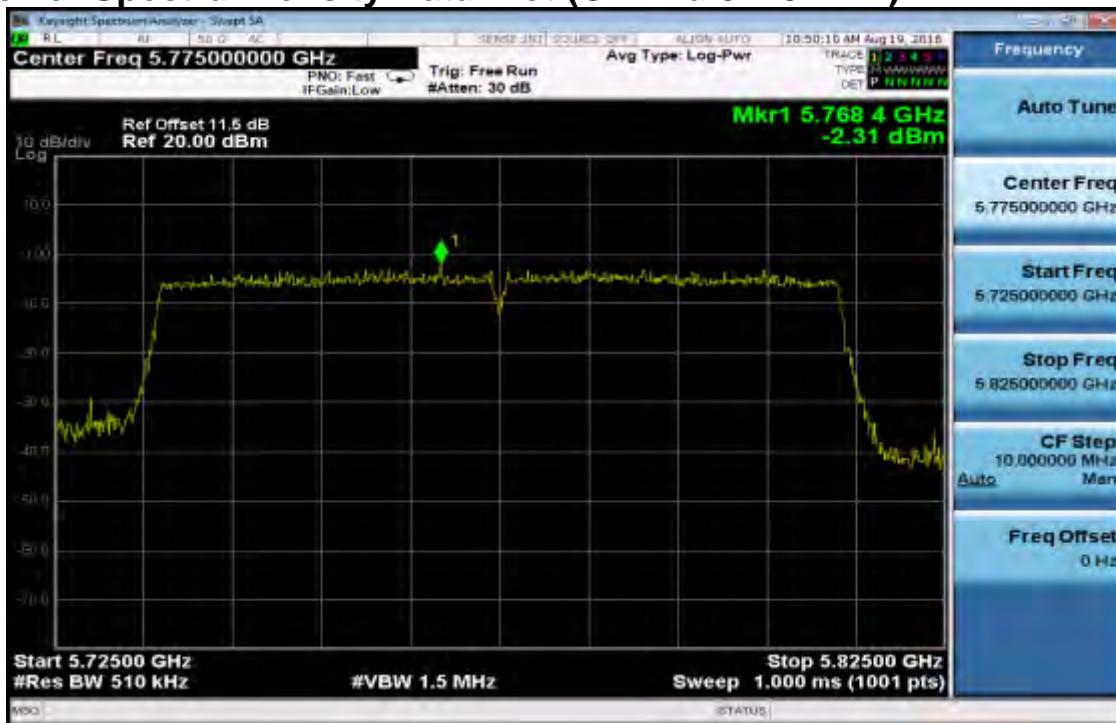
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802.11ac VHT80, 5725~5850 MHz Peak Power Spectral Density Data Plot (CH Mid 5775 MHz)



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11. UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

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

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

| APPLICABLE TO | LIMIT | |
|--|---|---|
| FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01 | FIELD STRENGTH AT 3m | |
| | PK: 74 (dB μ V/m) | AV 54 (dB μ V/m) |
| APPLICABLE TO | EIRP LIMIT | FIELD STRENGTH AT 3m |
| 15.407(b)(1) | PK: -27 (dBm/MHz) | PK: 68.3 (dB μ V/m) |
| 15.407(b)(2) | | |
| 15.407(b)(3) | | |
| 15.407(b)(4) | PK: -27 (dBm/MHz) PK: -17 (dBm/MHz) | PK: 68.3 (dB μ V/m) PK: 78.2 (dB μ V/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(dB μ V/m) *1 PK:105.2 (dB μ V/m) *2 PK: 110.8(dB μ V/m) *3 PK:122.2 (dB μ V/m) *4 |

*1 beyond 75 MHz or more above of the bandedge.

*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

EIRP = ((E*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 | ESCI7 | 100760 | 05/10/2016 | 05/09/2017 |
| Spectrum Analyzer | Agilent | E4446A | MY51100003 | 01/29/2016 | 01/28/2017 |
| Loop Antenna | ETS.LINDGREN | 6502 | 148045 | 09/07/2015 | 09/06/2016 |
| Bilog Antenna | SCHWAZBECK | VULB9168 | 378 | 12/14/2015 | 12/13/2016 |
| Horn Antenna | Schwarzbeck | BBHA9120D | 1441 | 08/01/2016 | 07/31/2017 |
| Pre-Amplifier | Agilent | 8447D | 2944A07676 | 01/02/2016 | 01/01/2017 |
| Pre-Amplifier | EMC Instruments Corp. | EMC0126530 | 980038 | 01/02/2016 | 01/01/2017 |
| Turn Table | HD | DT420 | N/A | N.C.R | N.C.R |
| Antenna Tower | ChamPro | AM-BS-4500-B | 060776-ABS | N.C.R | N.C.R |
| Controller | ChamPro | EM1000 | 60776 | N.C.R | N.C.R |
| Low Loss Cable | Huber Suhner | 966_RX | 9 | 01/02/2016 | 01/01/2017 |
| 3m Site NSA | SGS | 966 chamber | N/A | 07/01/2016 | 06/30/2017 |
| Low Loss Cable | Huber Suhner | 966 TX | 1 | 01/02/2016 | 01/01/2017 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 184 | 12/12/2015 | 12/11/2016 |
| Pre-Amplifier | EMC Instruments Corp. | EMC184045 | 980135 | 01/02/2016 | 01/01/2017 |

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

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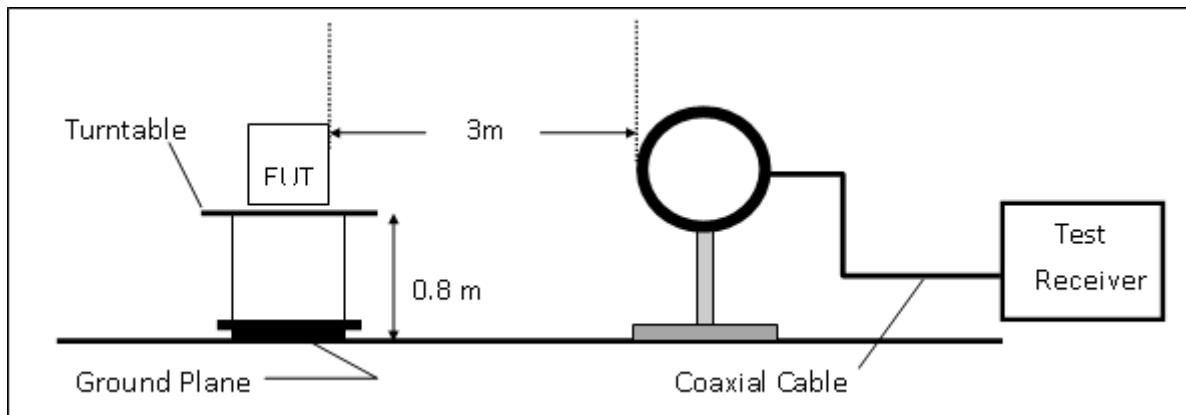
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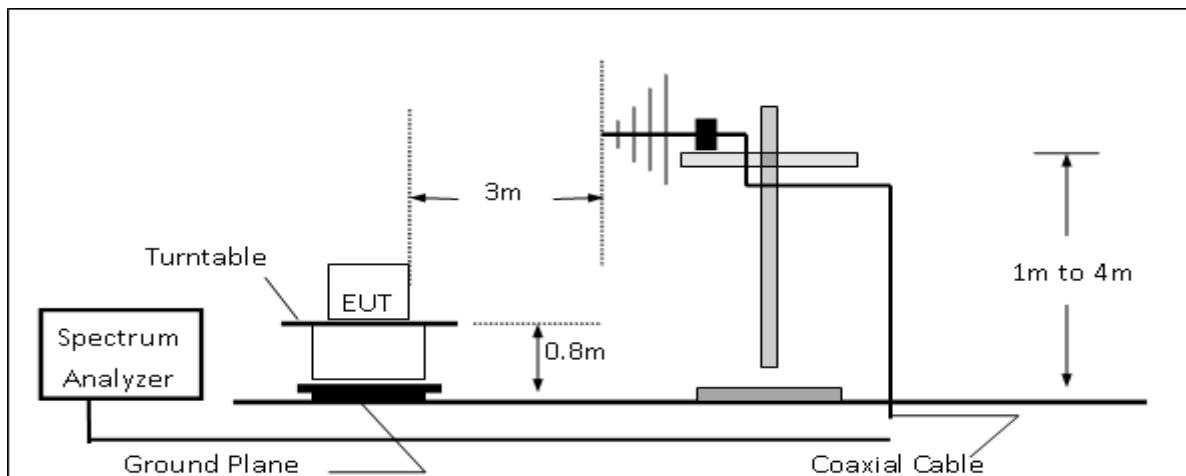
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11.3 Test SET-UP

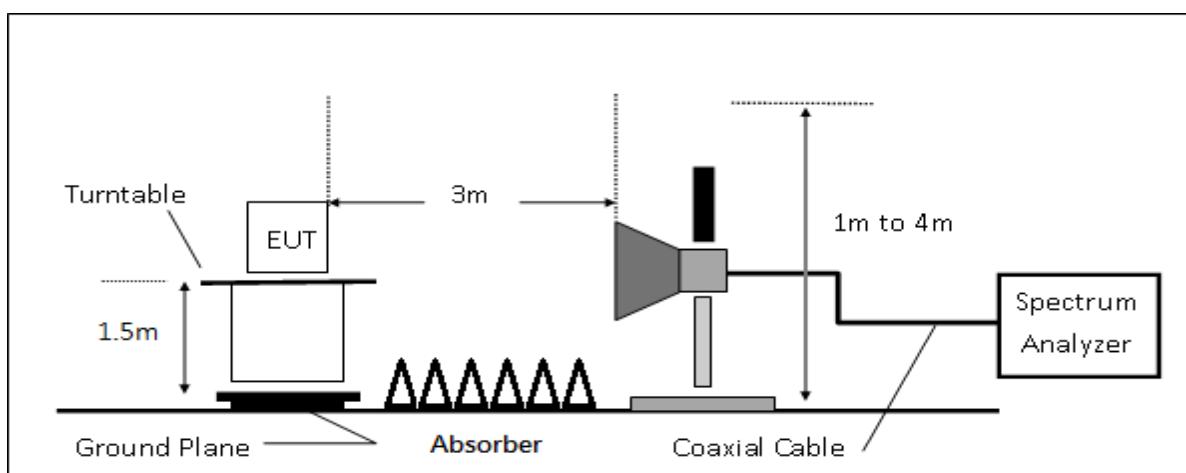
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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 \geq 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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/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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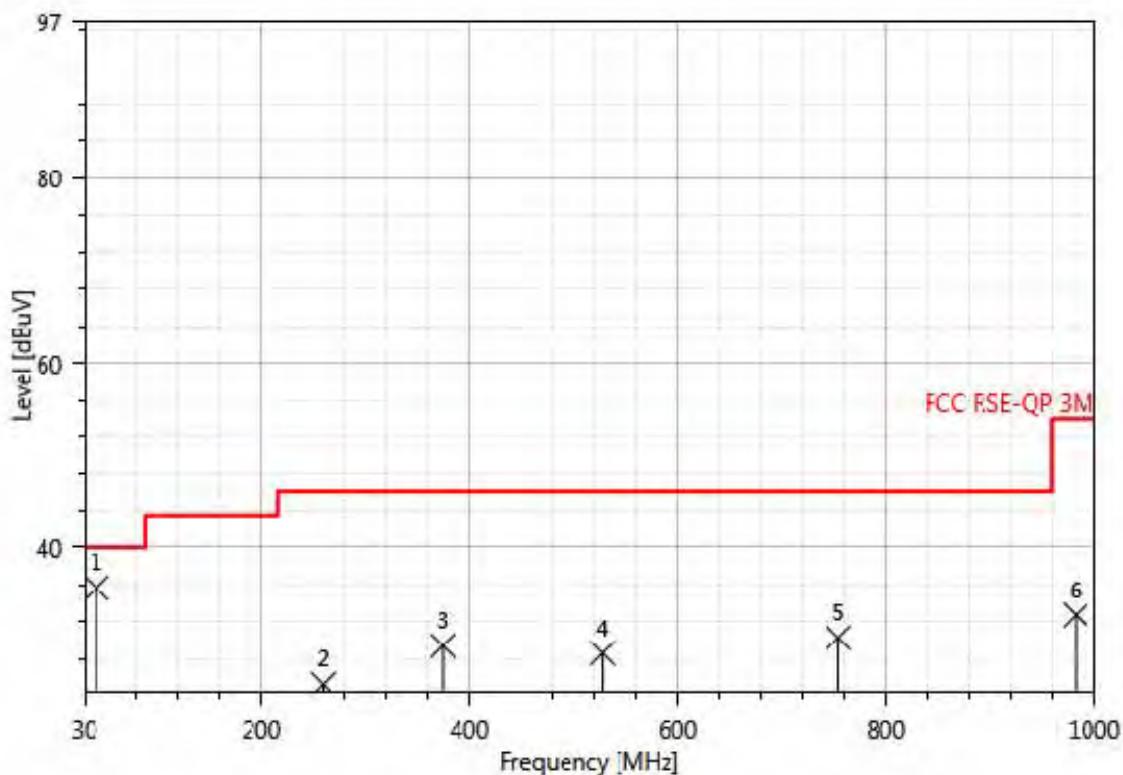
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Radiated Spurious Emission Measurement Result**Below 1GHz Worst-Case Data:****802.11a 5150~5250 MHz**

| | | | |
|-------------------------|-----------|----------------------------|------------------|
| Operation Mode : | 802.11aB1 | Test Date : | 08/17/2016 |
| Fundamental Frequency : | 5220 MHz | Temp. / Humi. : | 21 deg_C / 61 RH |
| Operation Band : | Tx CH MID | Test Engineer : | Kane |
| EUT Pol. : | H Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | Spectrum | Factor | Limit @ 3m | Margin |
|--------------|-----------------|-----------------|----------|-------------------------------|--------|---------------|--------|
| | | | QP/AV/PK | Reading Level dB μ V/m | | | |
| 41.64 | S | Peak | 35.64 | 44.01 | -8.38 | 40.00 | -4.36 |
| 259.89 | S | Peak | 25.27 | 32.56 | -7.28 | 46.00 | -20.73 |
| 374.35 | S | Peak | 29.41 | 33.94 | -4.53 | 46.00 | -16.59 |
| 527.61 | S | Peak | 28.59 | 29.90 | -1.32 | 46.00 | -17.41 |
| 754.59 | S | Peak | 30.27 | 27.57 | 2.70 | 46.00 | -15.73 |
| 982.54 | S | Peak | 32.72 | 26.70 | 6.02 | 54.00 | -21.28 |

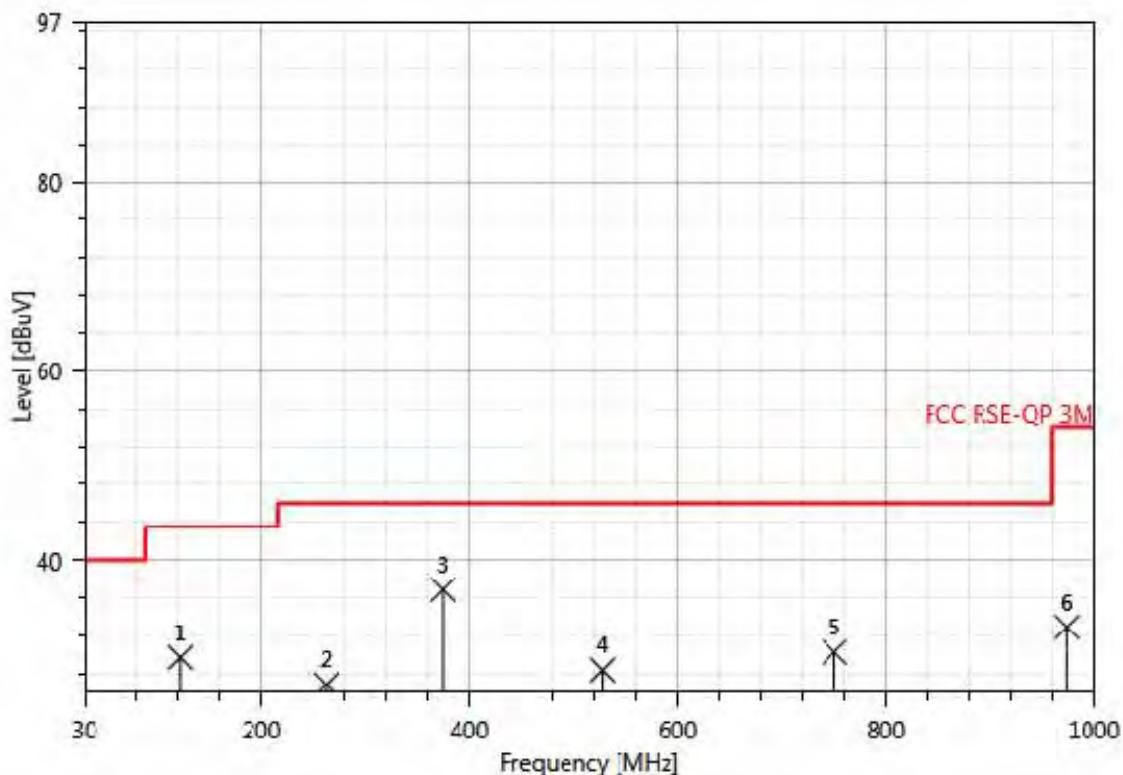
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Operation Mode : 802.11aB1
Fundamental Frequency : 5220 MHz
Operation Band : Tx CH MID
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 61 RH
Test Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | Spectrum | Factor | Limit @ 3m | Margin |
|--------------|-----------------|-----------------|---------|----------|--------|---------------|--------|
| | | | Reading | FS | | | |
| 122.15 | S | Peak | 29.68 | 39.93 | -10.25 | 43.50 | -13.82 |
| 262.80 | S | Peak | 26.83 | 33.97 | -7.14 | 46.00 | -19.17 |
| 374.35 | S | Peak | 36.84 | 41.38 | -4.53 | 46.00 | -9.16 |
| 527.61 | S | Peak | 28.37 | 29.69 | -1.32 | 46.00 | -17.63 |
| 750.71 | S | Peak | 30.25 | 27.49 | 2.76 | 46.00 | -15.75 |
| 973.81 | S | Peak | 32.88 | 26.73 | 6.16 | 54.00 | -21.12 |

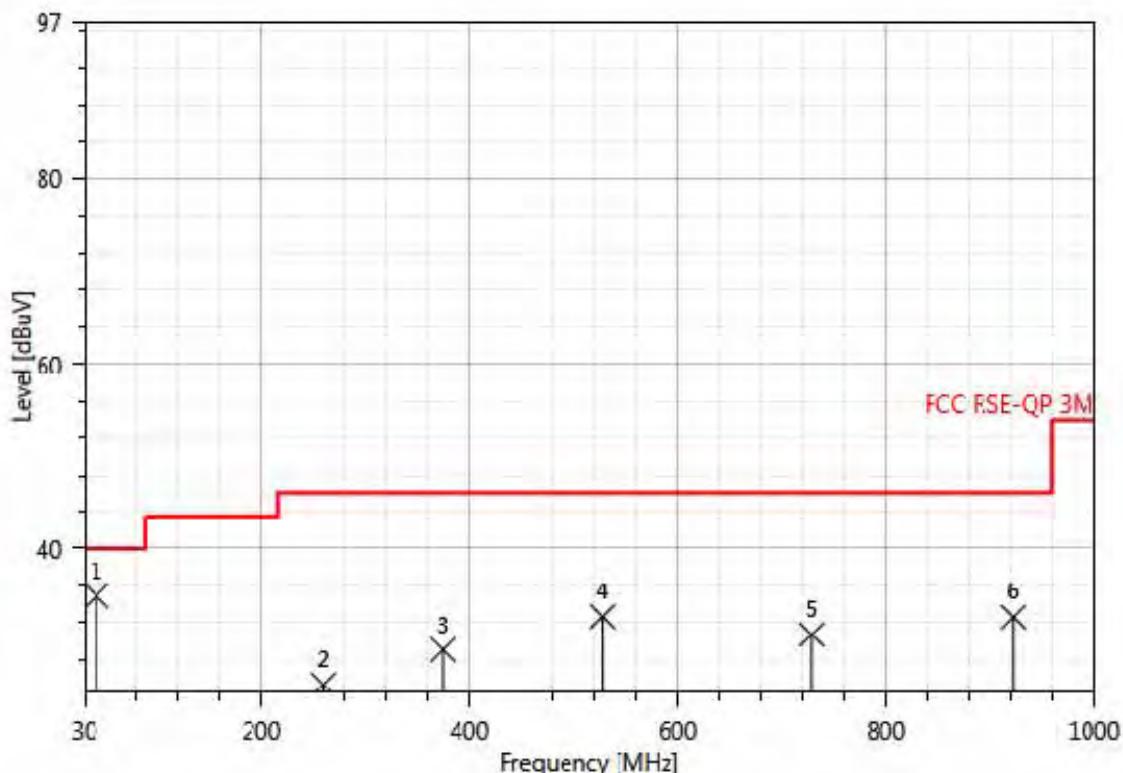
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802.11a 5250~5350 MHz

Operation Mode : 802.11aB2 Test Date : 08/17/2016
Fundamental Frequency : 5300 MHz Temp. / Humi. : 21 deg_C / 61 RH
Operation Band : Tx CH MID Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL



| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | Spectrum | Factor | Limit @ 3m | Margin |
|--------------|-----------------|-----------------|---------|----------|--------|---------------|--------|
| | | | Reading | FS | | | |
| 41.64 | S | Peak | 34.91 | 43.28 | -8.38 | 40.00 | -5.09 |
| 259.89 | S | Peak | 25.32 | 32.61 | -7.28 | 46.00 | -20.68 |
| 374.35 | S | Peak | 29.08 | 33.62 | -4.53 | 46.00 | -16.92 |
| 527.61 | S | Peak | 32.70 | 34.01 | -1.32 | 46.00 | -13.30 |
| 728.40 | S | Peak | 30.72 | 29.08 | 1.65 | 46.00 | -15.28 |
| 922.40 | S | Peak | 32.63 | 27.48 | 5.15 | 46.00 | -13.37 |

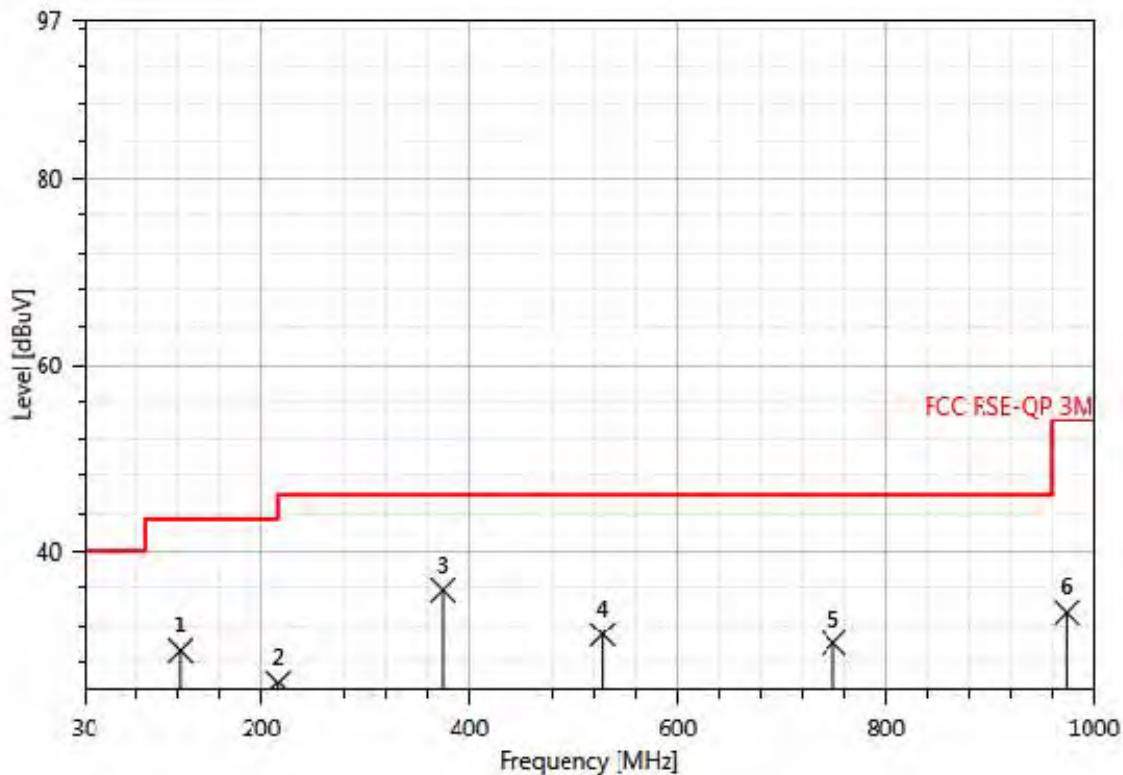
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Operation Mode : 802.11aB2
Fundamental Frequency : 5300 MHz
Operation Band : Tx CH MID
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 61 RH
Test Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | Spectrum | Factor | Limit @ 3m | Margin |
|--------------|-----------------|-----------------|---------|----------|--------|---------------|--------|
| | | | Reading | FS | | | |
| 122.15 | S | Peak | 29.28 | 39.53 | -10.25 | 43.50 | -14.22 |
| 216.24 | S | Peak | 25.89 | 35.32 | -9.43 | 46.00 | -20.11 |
| 374.35 | S | Peak | 35.75 | 40.28 | -4.53 | 46.00 | -10.25 |
| 527.61 | S | Peak | 31.03 | 32.35 | -1.32 | 46.00 | -14.97 |
| 749.74 | S | Peak | 30.09 | 27.37 | 2.72 | 46.00 | -15.91 |
| 973.81 | S | Peak | 33.42 | 27.26 | 6.16 | 54.00 | -20.58 |

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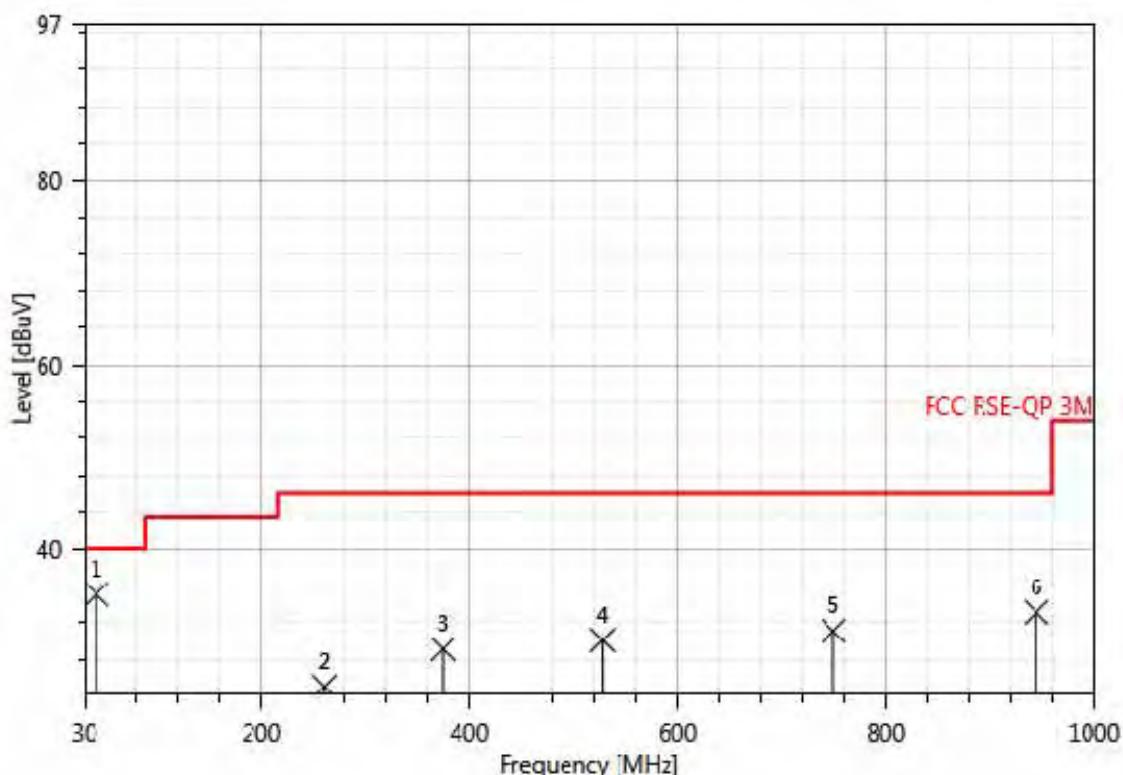
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802.11a, 5470~5725 MHz

Operation Mode : 802.11aB3
Fundamental Frequency : 5580 MHz
Operation Band : Tx CH MID
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 61 RH
Test Engineer : Kane
Measurement Antenna Pol. : VERTICAL



| Freq. | Note | Decetor | Actual | Spectrum | Factor | Limit | Margin |
|--------|---------|----------|--------------|--------------|--------|--------------|--------|
| | | | | | | FS | @ 3m |
| MHz | F/H/E/S | QP/AV/PK | dB μ V/m | dB μ V/m | dB | dB μ V/m | dB |
| 41.64 | S | Peak | 35.10 | 43.48 | -8.38 | 40.00 | -4.90 |
| 260.86 | S | Peak | 25.07 | 32.31 | -7.24 | 46.00 | -20.93 |
| 374.35 | S | Peak | 29.14 | 33.67 | -4.53 | 46.00 | -16.86 |
| 527.61 | S | Peak | 30.10 | 31.42 | -1.32 | 46.00 | -15.90 |
| 749.74 | S | Peak | 31.11 | 28.39 | 2.72 | 46.00 | -14.89 |
| 944.71 | S | Peak | 33.13 | 27.79 | 5.34 | 46.00 | -12.87 |

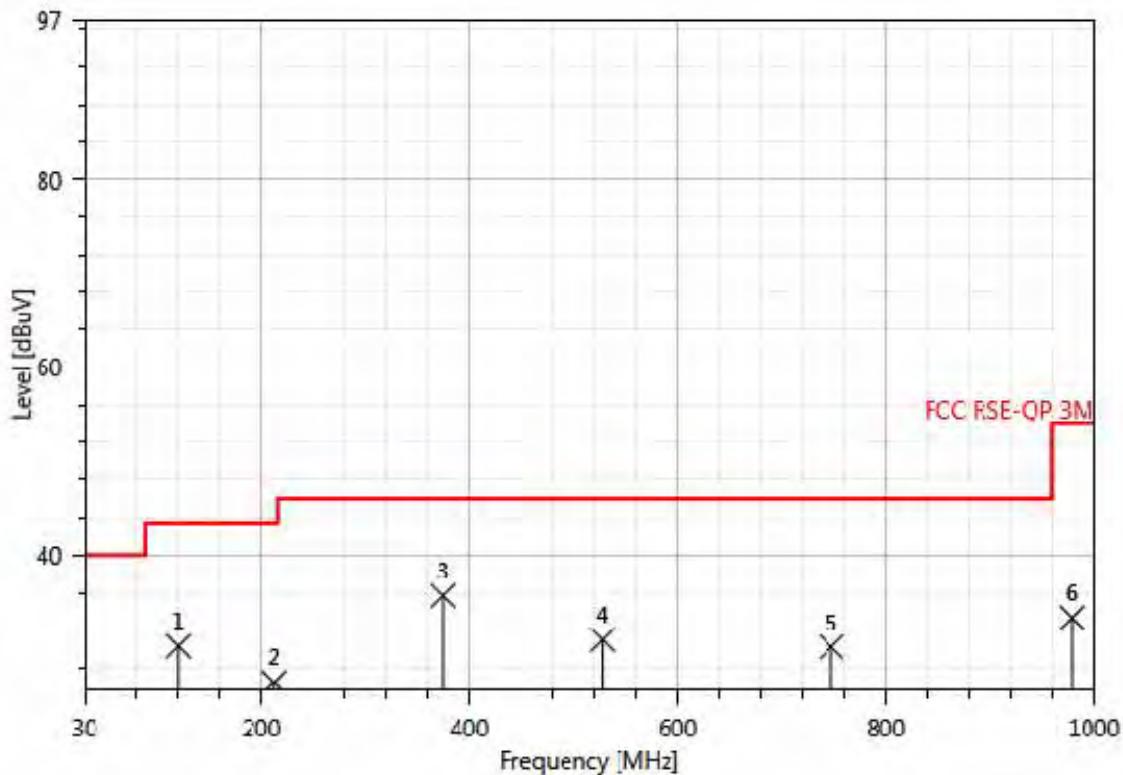
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Operation Mode : 802.11aB3
Fundamental Frequency : 5580 MHz
Operation Band : Tx CH MID
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 61 RH
Test Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | Spectrum | Factor | Limit @ 3m | Margin |
|--------------|-----------------|-----------------|---------|----------|--------|---------------|--------|
| | | | Reading | FS | | | |
| 120.21 | S | Peak | 30.31 | 40.77 | -10.45 | 43.50 | -13.19 |
| 212.36 | S | Peak | 26.47 | 36.12 | -9.65 | 43.50 | -17.03 |
| 374.35 | S | Peak | 35.68 | 40.22 | -4.53 | 46.00 | -10.32 |
| 527.61 | S | Peak | 31.00 | 32.32 | -1.32 | 46.00 | -15.00 |
| 747.80 | S | Peak | 30.23 | 27.74 | 2.50 | 46.00 | -15.77 |
| 978.66 | S | Peak | 33.35 | 27.07 | 6.28 | 54.00 | -20.65 |

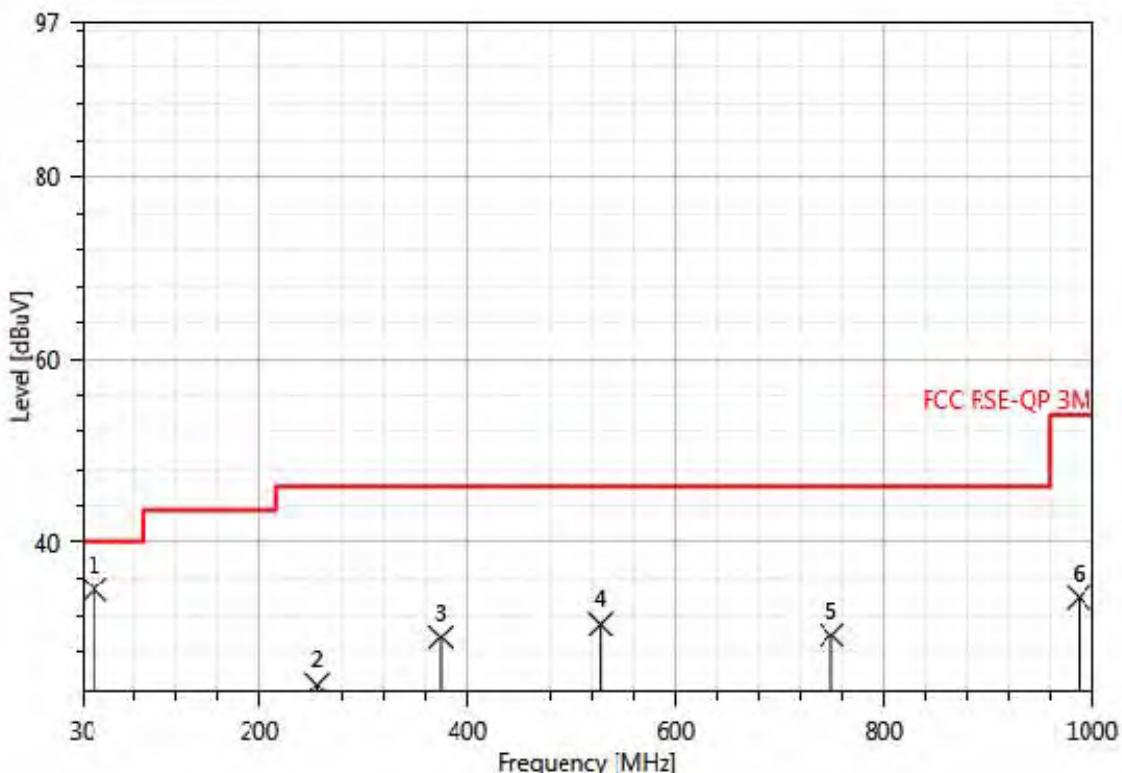
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802.11a, 5725~5850 MHz

Operation Mode : 802.11aB4 Test Date : 08/17/2016
Fundamental Frequency : 5785 MHz Temp. / Humi. : 21 deg_C / 61 RH
Operation Band : Tx CH MID Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual | Spectrum | Factor | Limit @ 3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------------------|---------|----------|--------|-------------------------|--------------|
| | | | Reading | FS | | | |
| 41.64 | S | Peak | 34.81 | 43.18 | -8.38 | 40.00 | -5.19 |
| 256.01 | S | Peak | 24.39 | 31.89 | -7.50 | 46.00 | -21.61 |
| 374.35 | S | Peak | 29.57 | 34.11 | -4.53 | 46.00 | -16.43 |
| 527.61 | S | Peak | 31.03 | 32.35 | -1.32 | 46.00 | -14.97 |
| 749.74 | S | Peak | 29.80 | 27.08 | 2.72 | 46.00 | -16.20 |
| 987.39 | S | Peak | 33.88 | 27.83 | 6.04 | 54.00 | -20.12 |

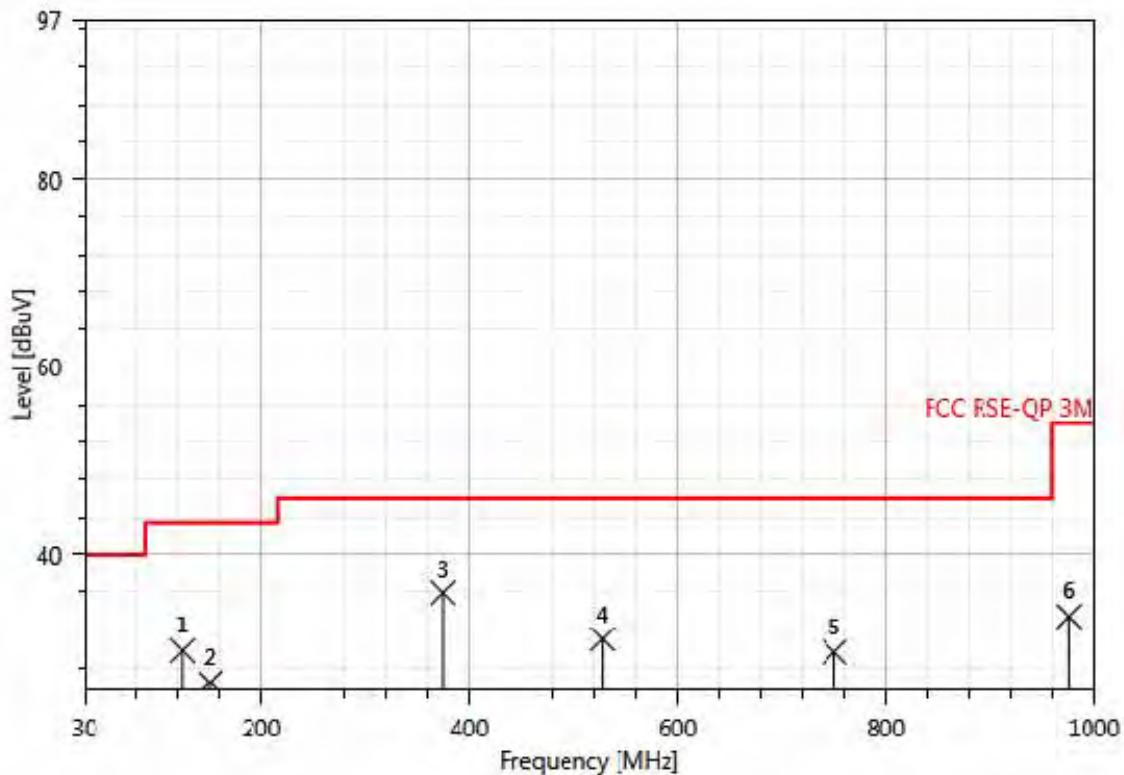
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Operation Mode : 802.11aB4
 Fundamental Frequency : 5785 MHz
 Operation Band : Tx CH MID
 EUT Pol. : H Plane

Test Date : 08/17/2016
 Temp. / Humi. : 21 deg_C / 61 RH
 Test Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | Spectrum | Factor | Limit @ 3m | Margin |
|--------------|-----------------|-----------------|---------|----------|--------|---------------|--------|
| | | | Reading | FS | | | |
| 124.09 | S | Peak | 29.78 | 39.84 | -10.06 | 43.50 | -13.72 |
| 151.25 | S | Peak | 26.40 | 34.10 | -7.70 | 43.50 | -17.10 |
| 374.35 | S | Peak | 35.90 | 40.43 | -4.53 | 46.00 | -10.10 |
| 527.61 | S | Peak | 31.01 | 32.32 | -1.32 | 46.00 | -14.99 |
| 750.71 | S | Peak | 29.62 | 26.86 | 2.76 | 46.00 | -16.38 |
| 975.75 | S | Peak | 33.42 | 27.21 | 6.21 | 54.00 | -20.58 |

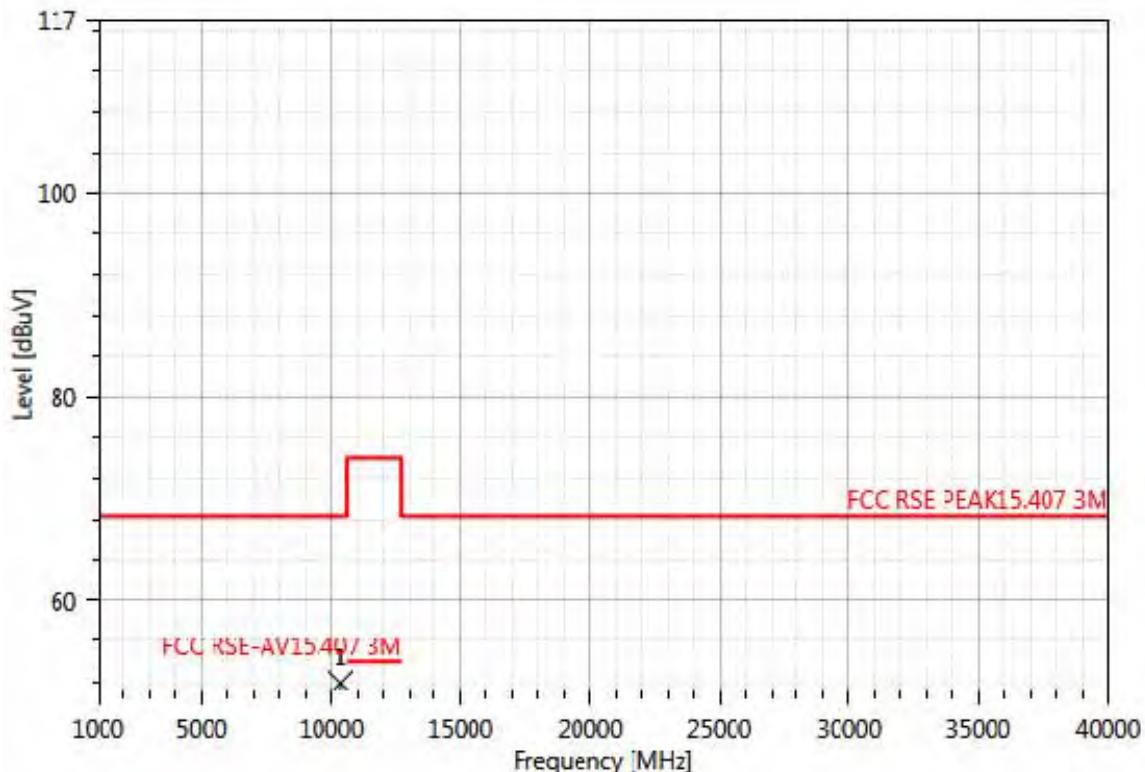
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Above 1GHz Worst-Case Data:**Radiated Spurious Emission Measurement Result 802.11a, 5150~5250 MHz**

Operation Mode : 802.11aB1 Test Date : 08/17/2016
Fundamental Frequency : 5180 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL



| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------|----------------|--------|--------------|--------|
| | | | | | | @ 3m | dB |
| | QP/AV/PK | Peak | dB μ V/m | dB μ V/m | dB | dB μ V/m | dB |
| 10360.00 | H | Peak | 51.93 | 33.63 | 18.29 | 68.30 | -16.37 |

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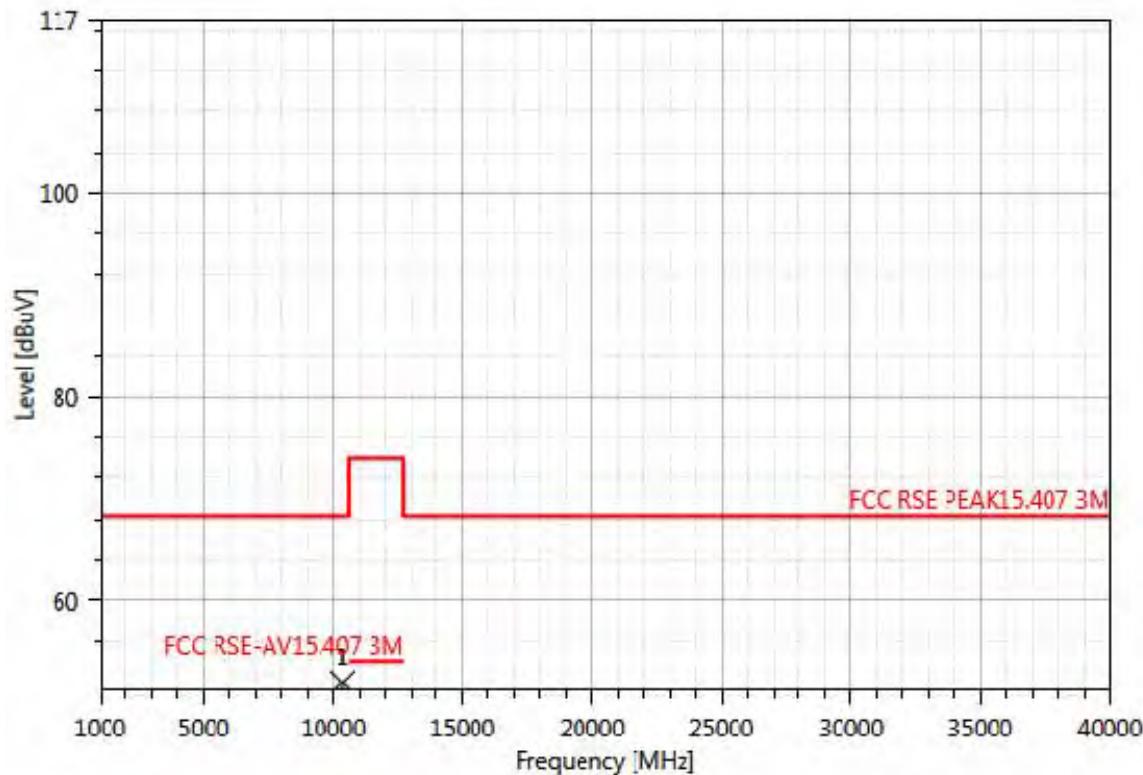
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Operation Mode : 802.11aB1
Fundamental Frequency : 5180 MHz
Operation Band : Tx CH LOW
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading | Spectrum FS | Factor | Limit @3m | Margin |
|--------------|-----------------|-----------------|-------------------|----------------|--------|--------------|--------|
| | | QP/AV/PK | dB μ V/m | dB μ V/m | dB | dBuV/m | dB |
| 10360.00 | H | Peak | 51.93 | 33.64 | 18.29 | 68.30 | -16.37 |

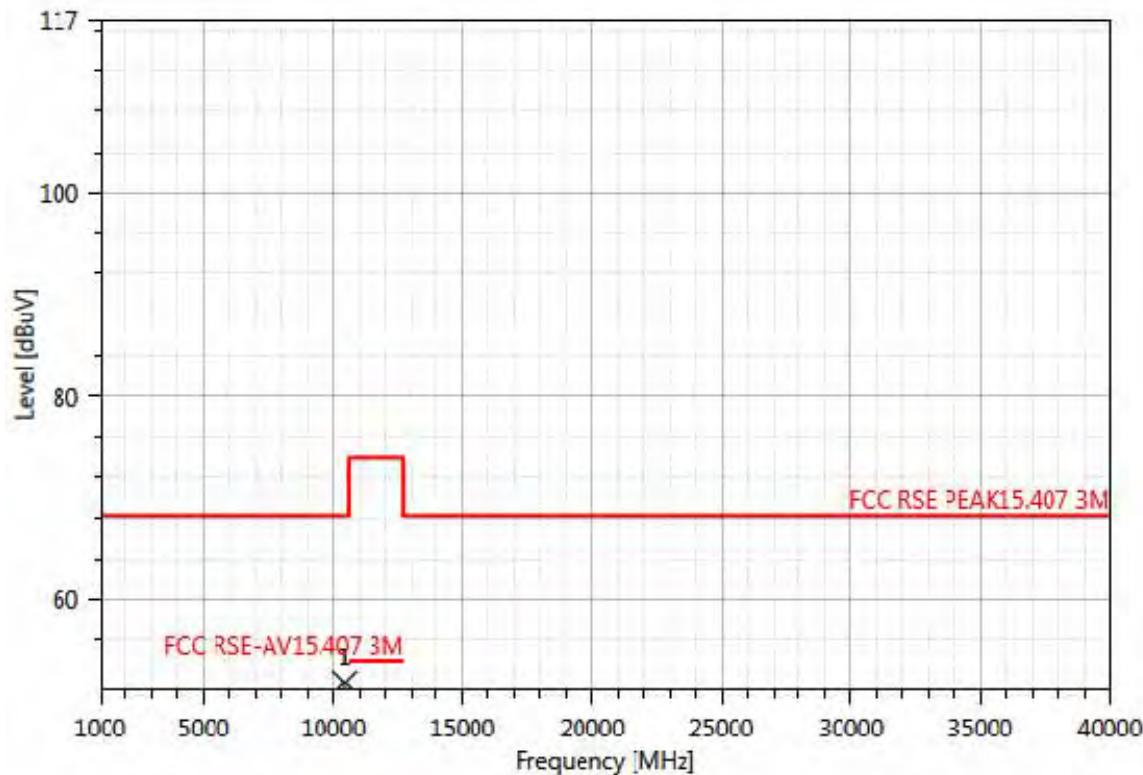
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Operation Mode : 802.11aB1
Fundamental Frequency : 5220 MHz
Operation Band : Tx CH MID
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : VERTICAL



| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading | Spectrum FS | Factor | Limit @3m | Margin |
|--------------|-----------------|-----------------|-------------------|----------------|--------|--------------|--------|
| | | QP/AV/PK | dB μ V/m | dBuV/m | dB | dBuV/m | dB |
| 10440.00 | H | Peak | 51.89 | 33.20 | 18.68 | 68.30 | -16.41 |

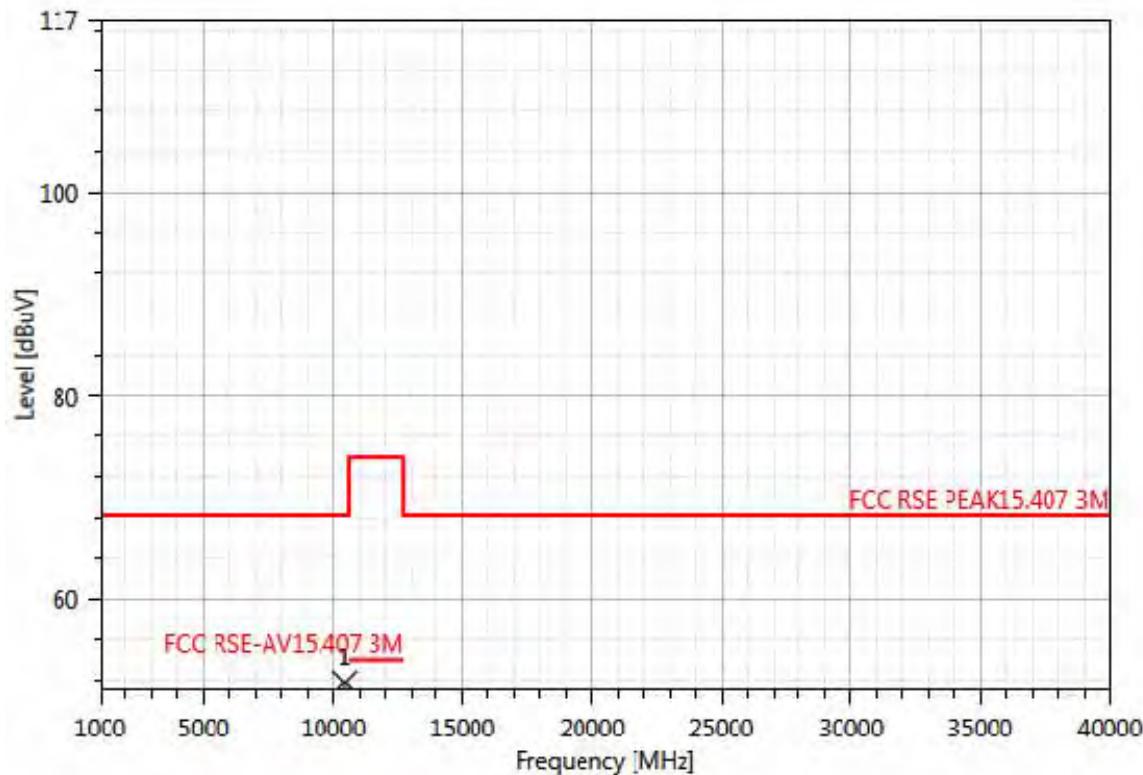
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Operation Mode : 802.11aB1
Fundamental Frequency : 5220 MHz
Operation Band : Tx CH MID
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



| Freq. | Note | Decetor | Actual | Spectrum | Factor | Limit | Margin |
|----------|---------|----------|---------|--------------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading | FS | dB | dBuV/m | dB |
| | | QP/AV/PK | Level | dB μ V/m | | | |
| 10440.00 | H | Peak | 51.78 | 33.10 | 18.68 | 68.30 | -16.52 |

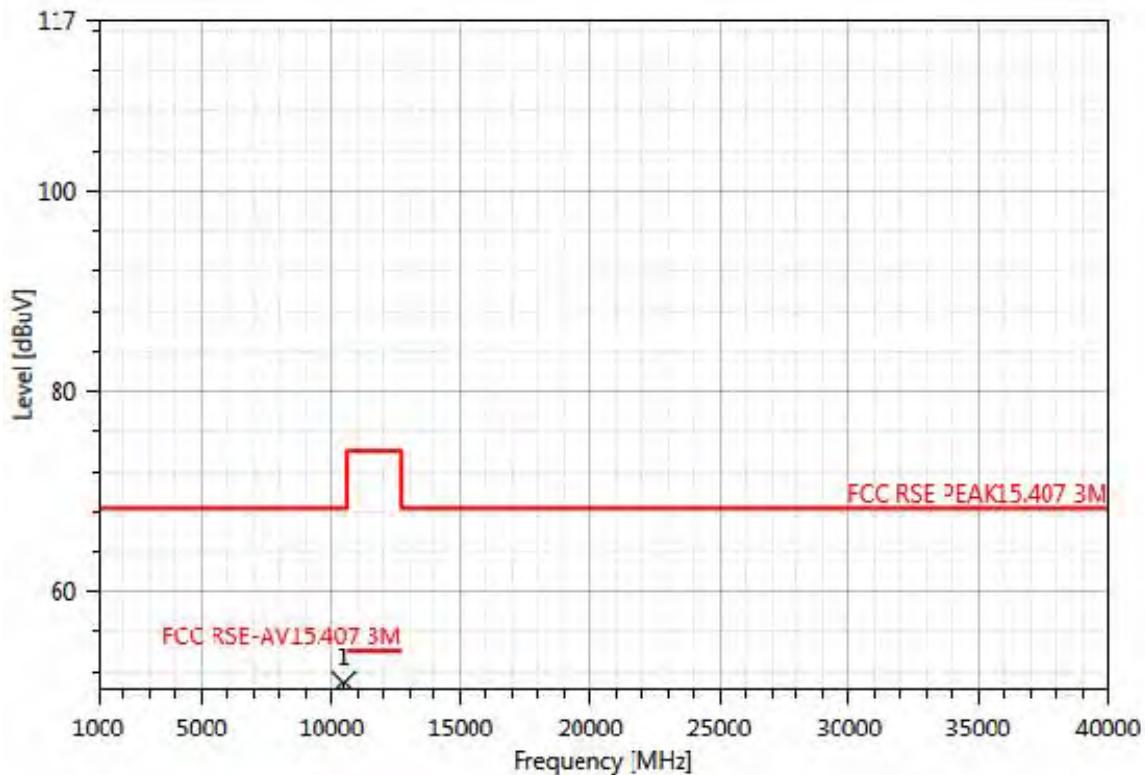
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Operation Mode : 802.11aB1
Fundamental Frequency : 5240 MHz
Operation Band : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : VERTICAL



| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading | Spectrum FS | Factor | Limit @3m | Margin |
|--------------|-----------------|-----------------|-------------------|----------------|--------|--------------|--------|
| | | QP/AV/PK | dB μ V/m | dBuV/m | dB | dBuV/m | dB |
| 10480.00 | H | Peak | 50.88 | 32.59 | 18.29 | 68.30 | -17.42 |

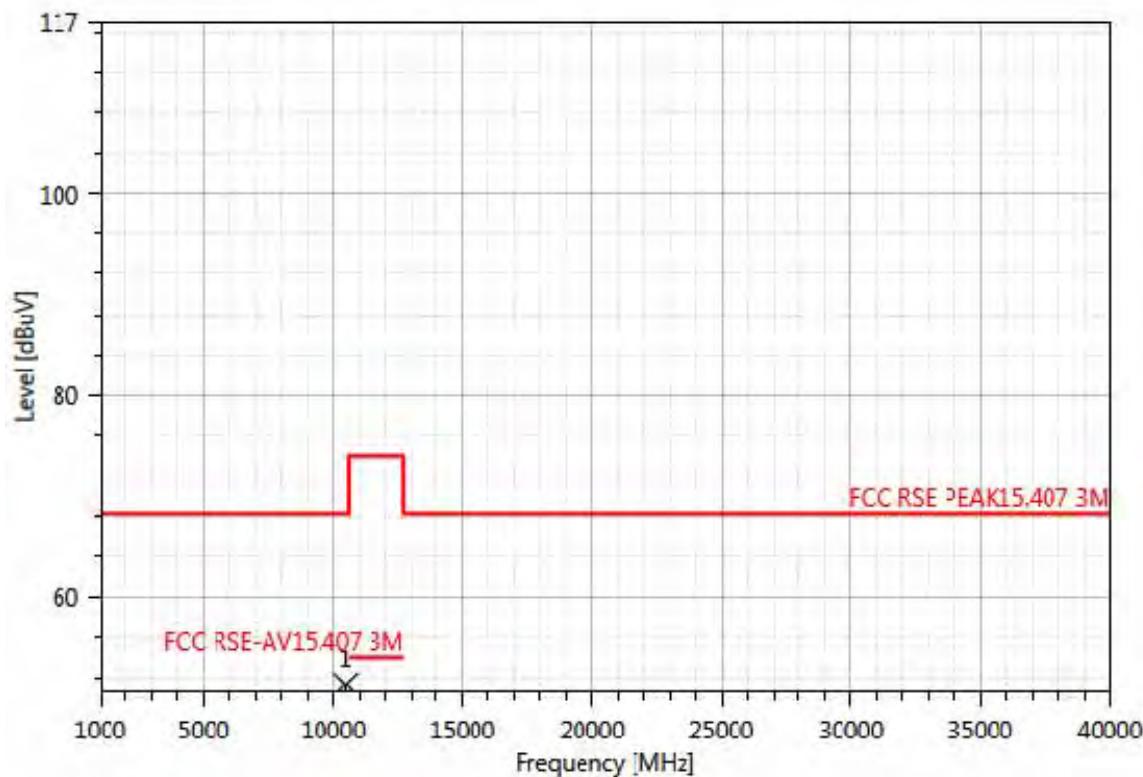
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Operation Mode : 802.11aB1
Fundamental Frequency : 5240 MHz
Operation Band : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



| Freq. | Note | Decetor | Actual | Spectrum | Factor | Limit | Margin |
|----------|---------|----------|--------------|--------------|--------|--------------|--------|
| MHz | F/H/E/S | Mode | Reading | FS | | @3m | |
| | | QP/AV/PK | dB μ V/m | dB μ V/m | dB | dB μ V/m | dB |
| 10480.00 | H | Peak | 51.35 | 33.05 | 18.29 | 68.30 | -16.95 |

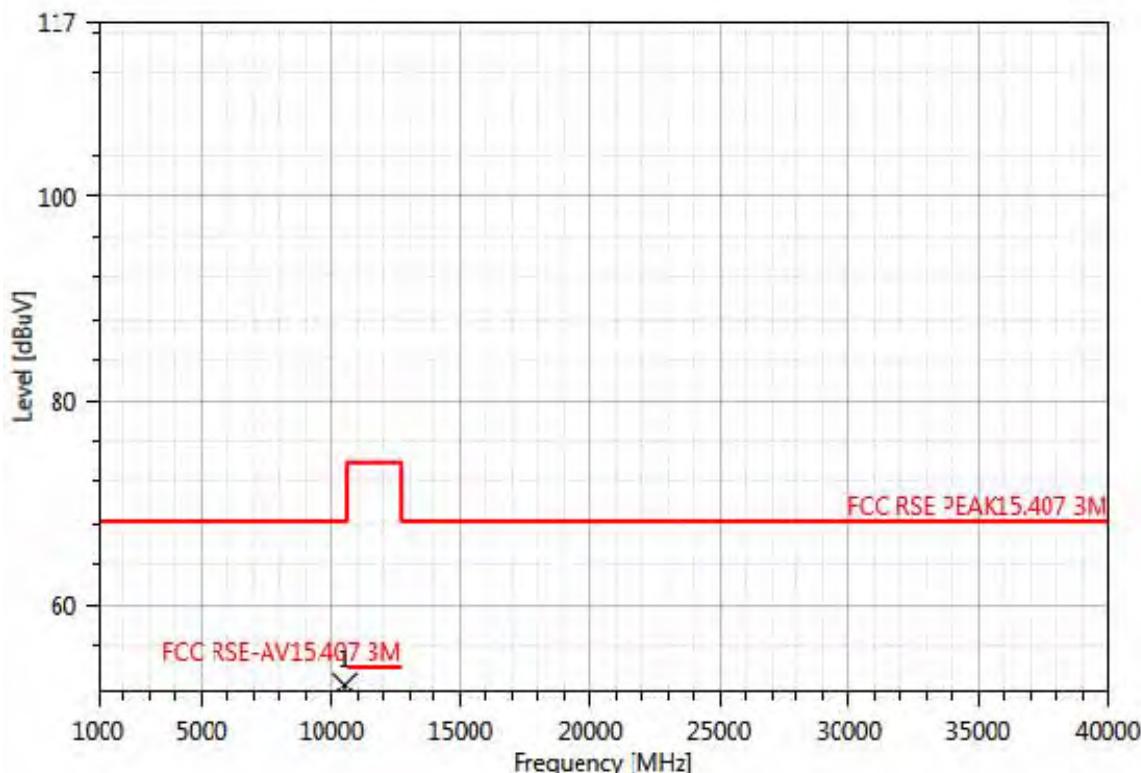
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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode : 802.11aB2 Test Date : 08/17/2016
Fundamental Frequency : 5260 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL



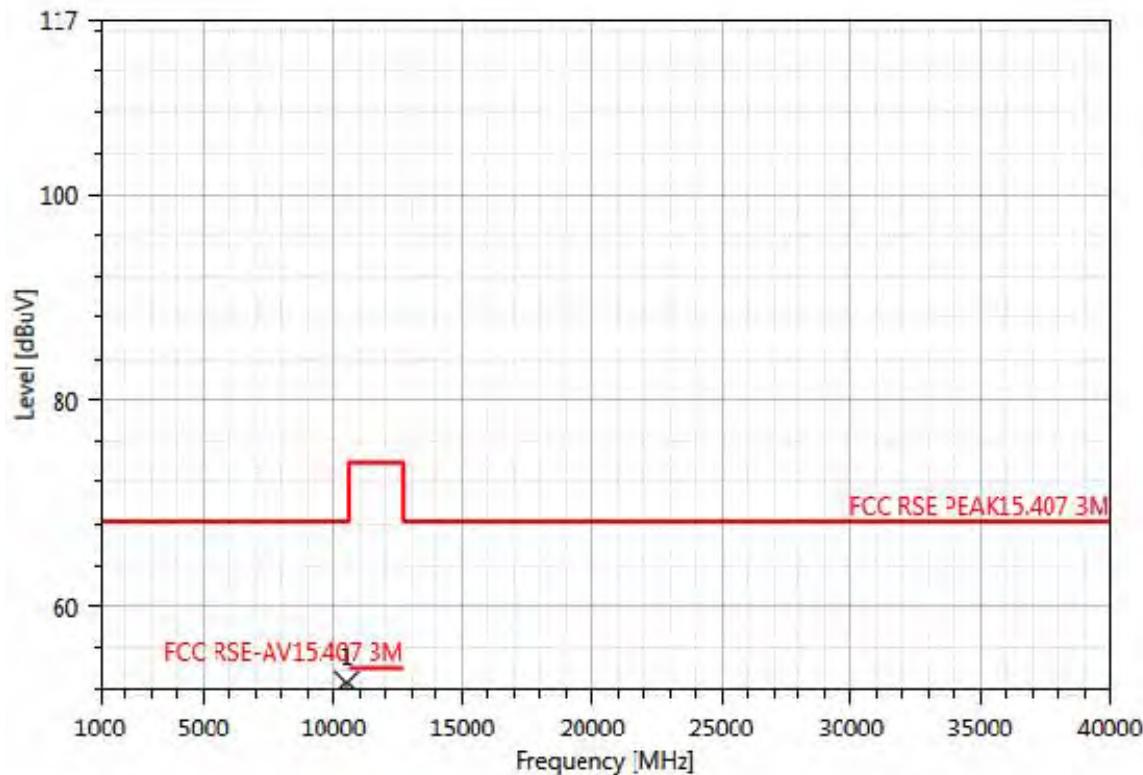
| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------|----------------|--------|-------|--------|
| | | | | | | @ 3m | |
| 10520.00 | H | Peak | 52.30 | 32.93 | 19.37 | 68.30 | -16.00 |

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Operation Mode : 802.11aB2 Test Date : 08/17/2016
Fundamental Frequency : 5260 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL



| Freq. | Note | Decetor | Actual | Spectrum | Factor | Limit | Margin |
|----------|---------|----------|--------------|--------------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading | FS | | @3m | |
| | | QP/AV/PK | dB μ V/m | dB μ V/m | dB | dBuV/m | dB |
| 10520.00 | H | Peak | 52.57 | 33.20 | 19.37 | 68.30 | -15.73 |

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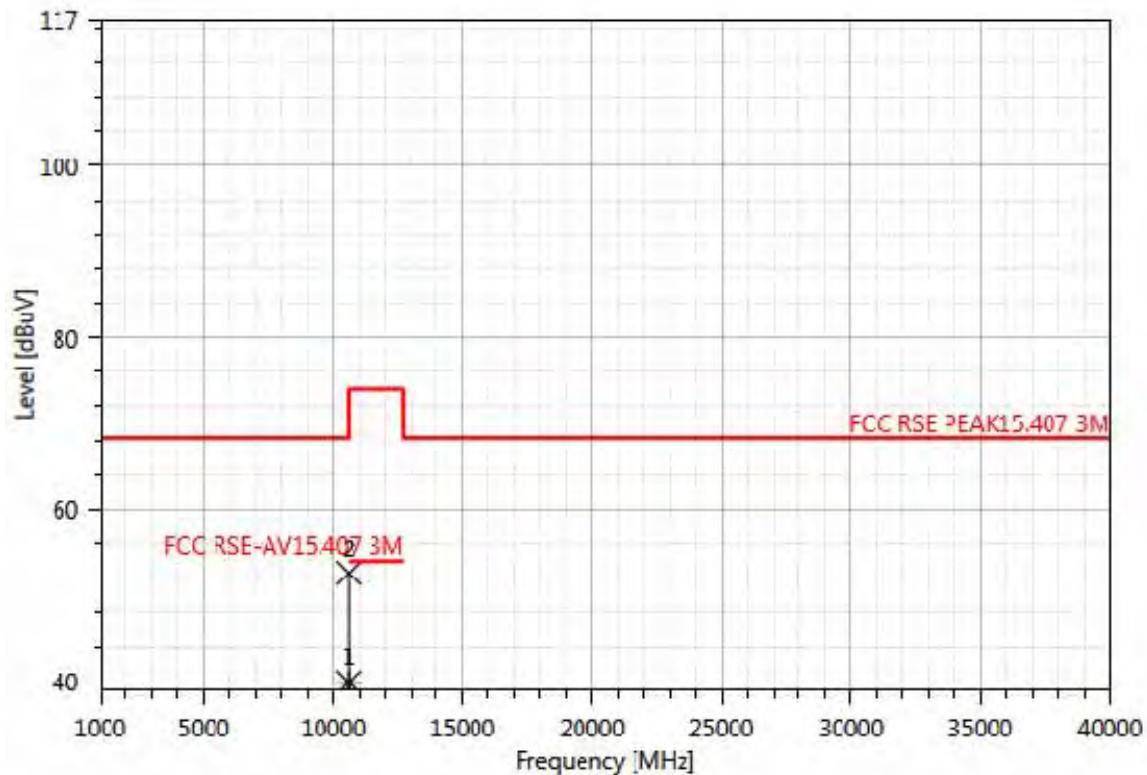
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Operation Mode : 802.11aB2
Fundamental Frequency : 5300 MHz
Operation Band : Tx CH MID
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : VERTICAL



| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | Spectrum | Factor | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------|---------|----------|--------|------------------------|--------------|
| | | | Reading | FS | | | |
| 10600.00 | H | Average | 39.89 | 20.98 | 18.91 | 54.00 | -14.11 |
| 10600.00 | H | Peak | 52.61 | 33.70 | 18.91 | 74.00 | -21.39 |

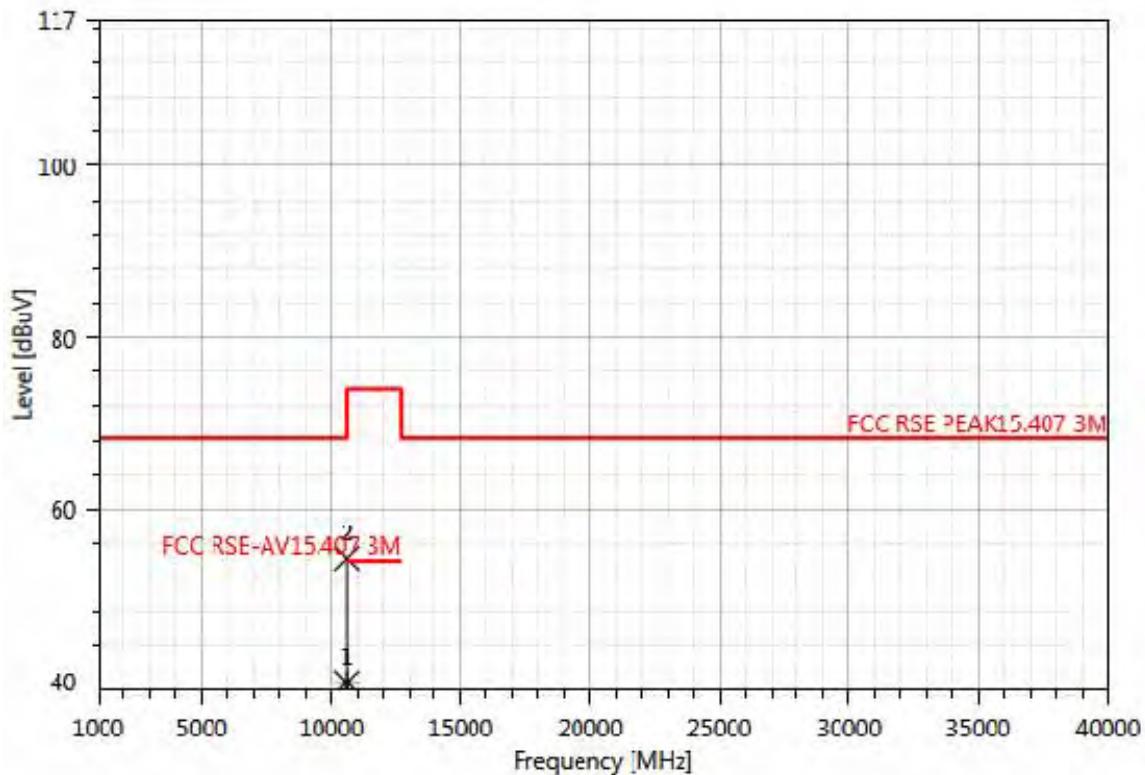
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Operation Mode : 802.11aB2
Fundamental Frequency : 5300 MHz
Operation Band : Tx CH MID
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual Reading Level dB μ V/m | Spectrum | | Factor dB | Limit @ 3m dB μ V/m | Margin dB |
|--------------|-----------------|-----------------------------|---|----------|--------------------|--------------|-------------------------------|--------------|
| | | | | Mode | FS dB μ V/m | | | |
| 10600.00 | H | Average | 39.87 | 20.96 | 18.91 | 54.00 | 54.00 | -14.13 |
| 10600.00 | H | Peak | 54.32 | 35.41 | 18.91 | 74.00 | 74.00 | -19.68 |

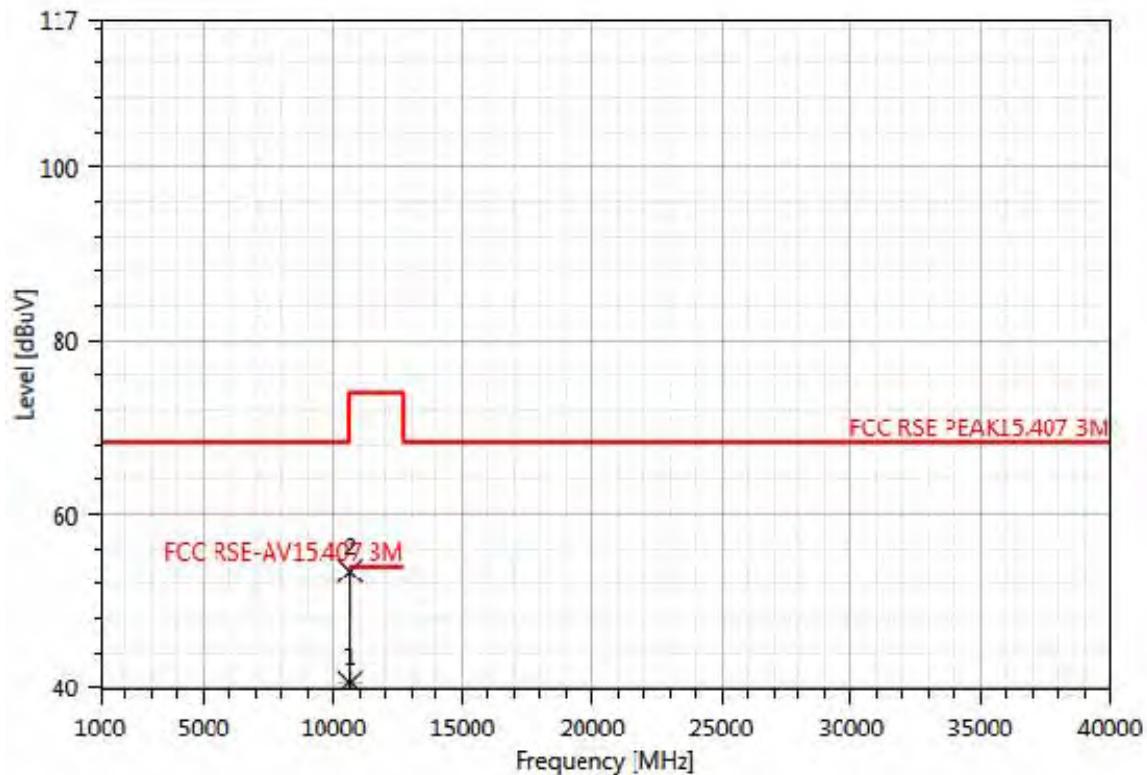
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Operation Mode : 802.11aB2
Fundamental Frequency : 5320 MHz
Operation Band : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : VERTICAL



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual Reading Level dB μ V/m | Spectrum | | Factor dB | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------------------|---|----------|--------------------|--------------|------------------------|--------------|
| | | | | Mode | FS dB μ V/m | | | |
| 10640.00 | H | Average | 40.63 | 21.45 | 19.18 | 54.00 | 54.00 | -13.37 |
| 10640.00 | H | Peak | 53.47 | 34.28 | 19.18 | 74.00 | 74.00 | -20.53 |

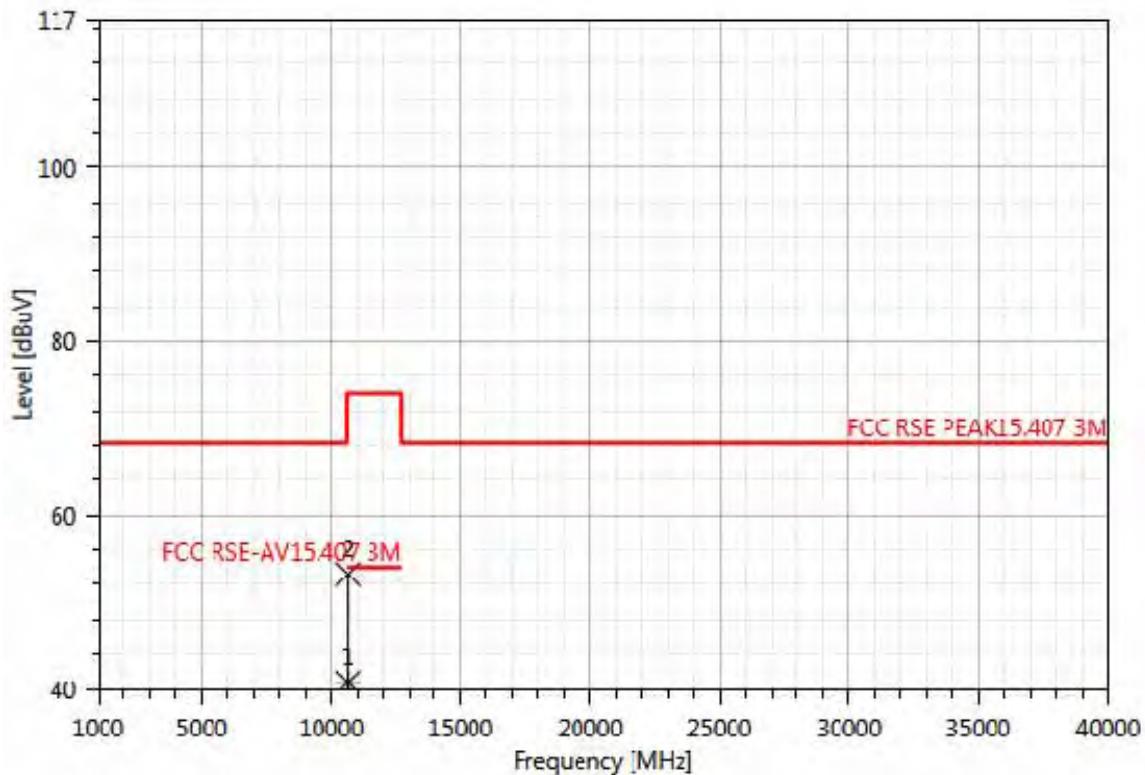
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Operation Mode : 802.11aB2
 Fundamental Frequency : 5320 MHz
 Operation Band : Tx CH HIGH
 EUT Pol. : H Plane

Test Date : 08/17/2016
 Temp. / Humi. : 21 deg_C / 62 RH
 Test Engineer : Kane
 Measurement Antenna Pol. : HORIZONTAL



| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level dB μ V/m | Spectrum | | Factor dB | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------|---|----------|--------------------|--------------|------------------------|--------------|
| | | | | QP/AV/PK | FS dB μ V/m | | | |
| 10640.00 | H | Average | 40.74 | | 21.56 | 19.18 | 54.00 | -13.26 |
| 10640.00 | H | Peak | 53.20 | | 34.02 | 19.18 | 74.00 | -20.80 |

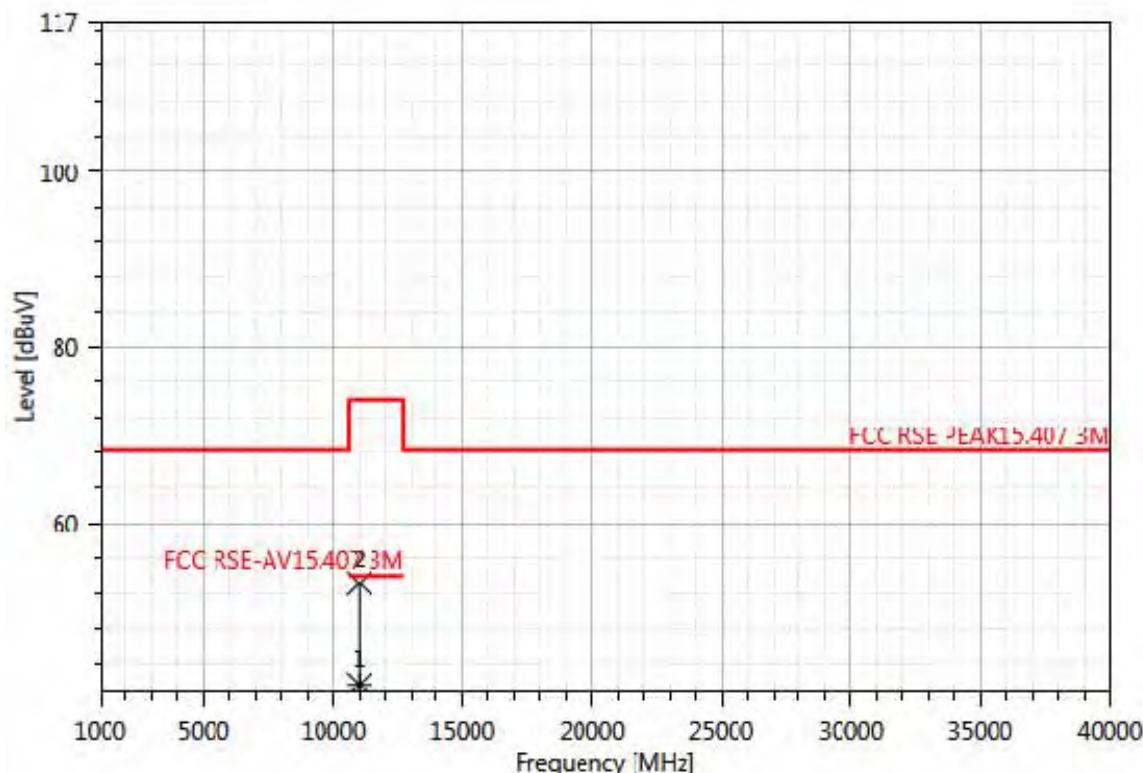
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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode : 802.11aB3 Test Date : 08/17/2016
Fundamental Frequency : 5500 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL



| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------|----------------|--------|-------|--------|
| | | | | | | @ 3m | dB |
| 11000.00 | H | Average | 41.62 | 21.45 | 20.17 | 54.00 | -12.38 |
| 11000.00 | H | Peak | 53.12 | 32.96 | 20.17 | 74.00 | -20.88 |

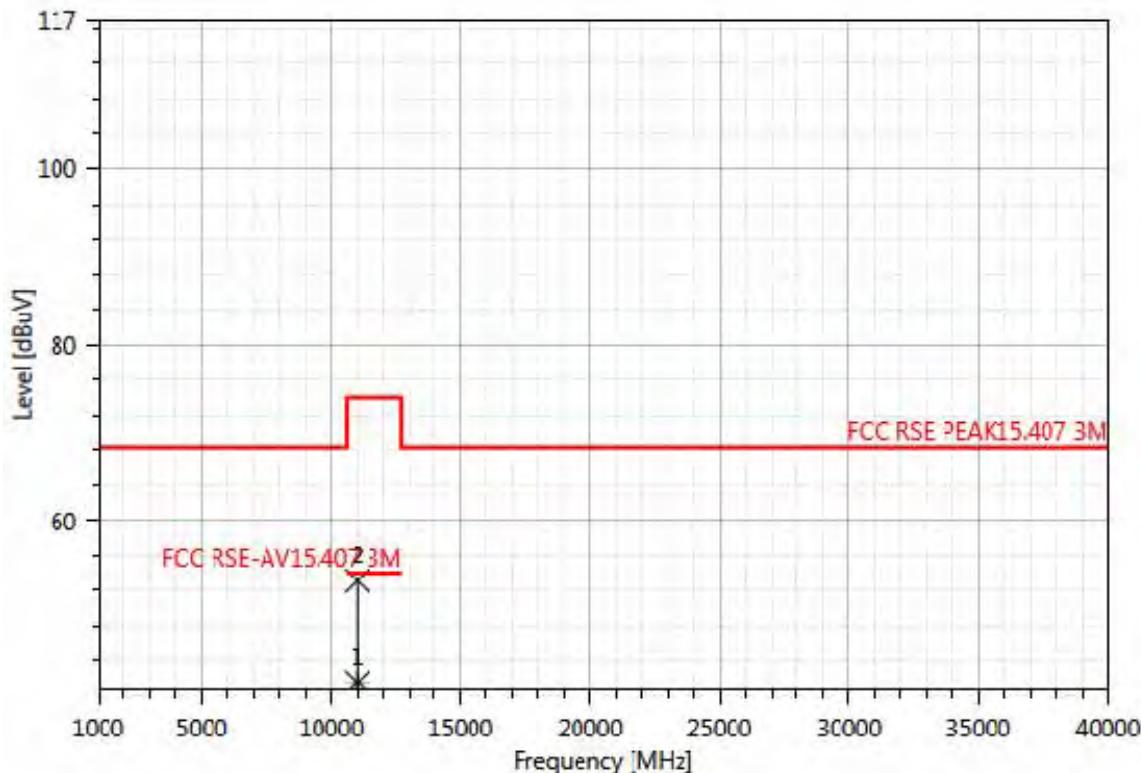
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Operation Mode : 802.11aB3
Fundamental Frequency : 5500 MHz
Operation Band : Tx CH LOW
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual Reading Level dB μ V/m | Spectrum | | Factor dB | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------------------|---|----------|--------------------|--------------|------------------------|--------------|
| | | | | Mode | FS dB μ V/m | | | |
| 11000.00 | H | Average | 41.55 | 21.38 | 20.17 | 54.00 | 54.00 | -12.45 |
| 11000.00 | H | Peak | 53.12 | 32.95 | 20.17 | 74.00 | 74.00 | -20.88 |

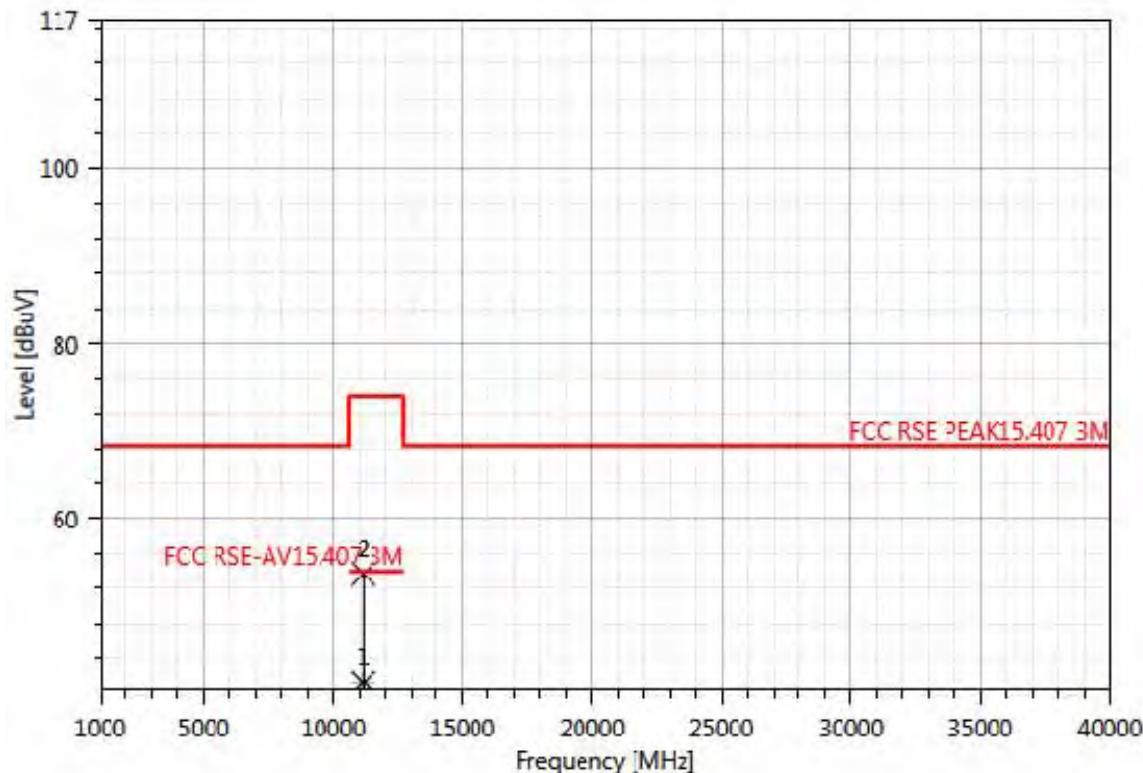
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Operation Mode : 802.11aB3
Fundamental Frequency : 5580 MHz
Operation Band : Tx CH MID
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : VERTICAL



| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | Spectrum | Factor | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------|---------|----------|--------|------------------------|--------------|
| | | | Reading | FS | | | |
| 11160.00 | H | Average | 41.30 | 20.85 | 20.45 | 54.00 | -12.70 |
| 11160.00 | H | Peak | 53.69 | 33.25 | 20.45 | 74.00 | -20.31 |

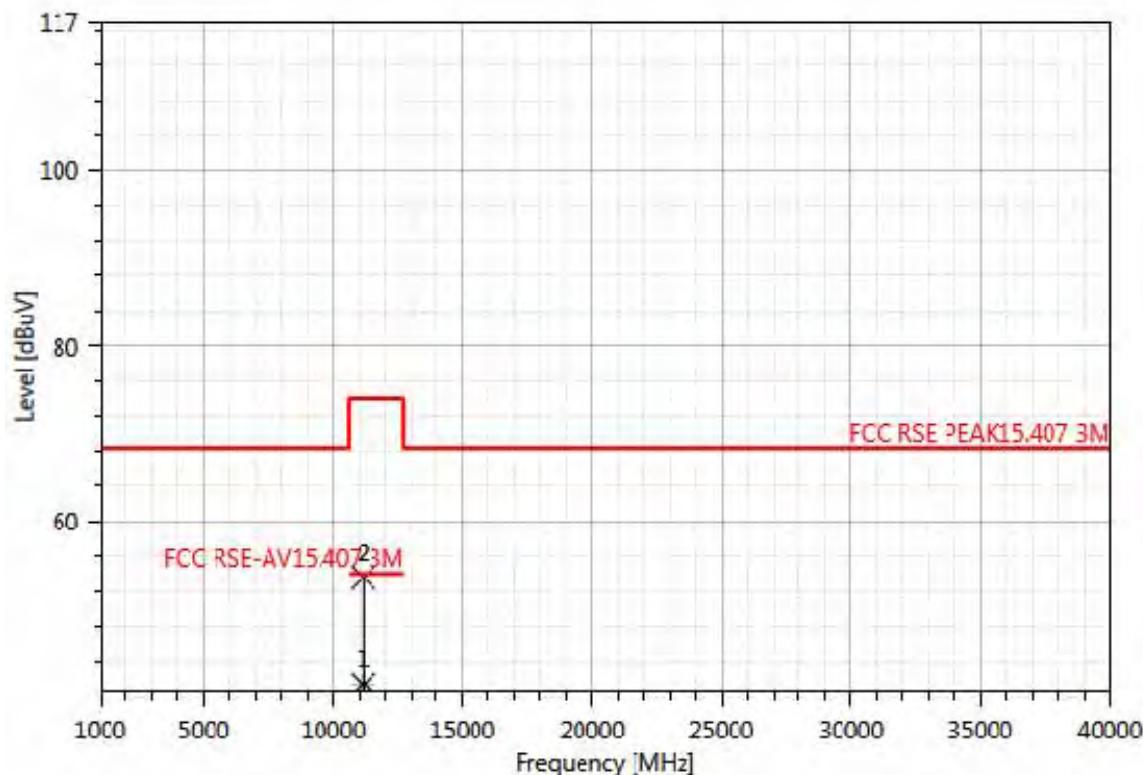
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Operation Mode : 802.11aB3
Fundamental Frequency : 5580 MHz
Operation Band : Tx CH MID
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual Reading Level dB μ V/m | Spectrum | | Factor dB | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------------------|---|----------|--------------------|--------------|------------------------|--------------|
| | | | | Mode | FS dB μ V/m | | | |
| 11160.00 | H | Average | 41.33 | 20.88 | 20.45 | 54.00 | 54.00 | -12.67 |
| 11160.00 | H | Peak | 53.52 | 33.07 | 20.45 | 74.00 | 74.00 | -20.48 |

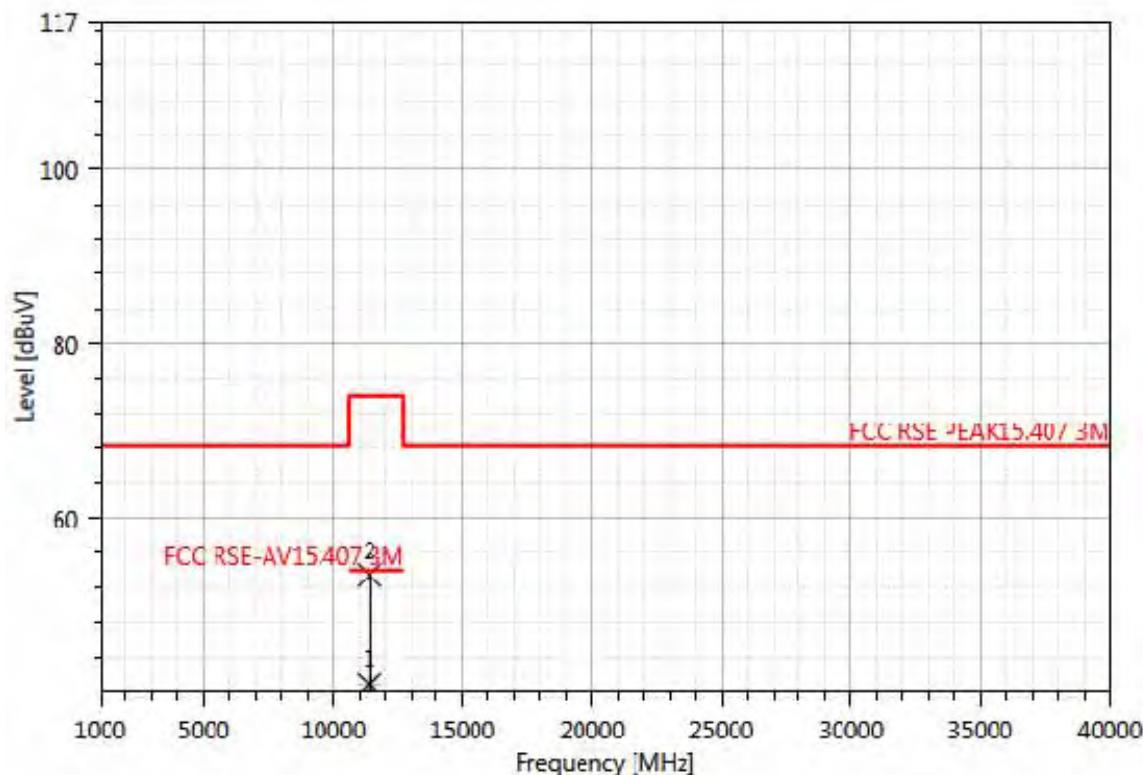
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Operation Mode : 802.11aB3
Fundamental Frequency : 5700 MHz
Operation Band : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : VERTICAL



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual Reading Level dB μ V/m | Spectrum | | Factor dB | Limit @ 3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------------------|---|----------|--------------------|--------------|-------------------------|--------------|
| | | | | Mode | FS dB μ V/m | | | |
| 11400.00 | H | Average | 40.87 | 20.31 | 20.56 | 54.00 | 54.00 | -13.13 |
| 11400.00 | H | Peak | 53.43 | 32.87 | 20.56 | 74.00 | 74.00 | -20.57 |

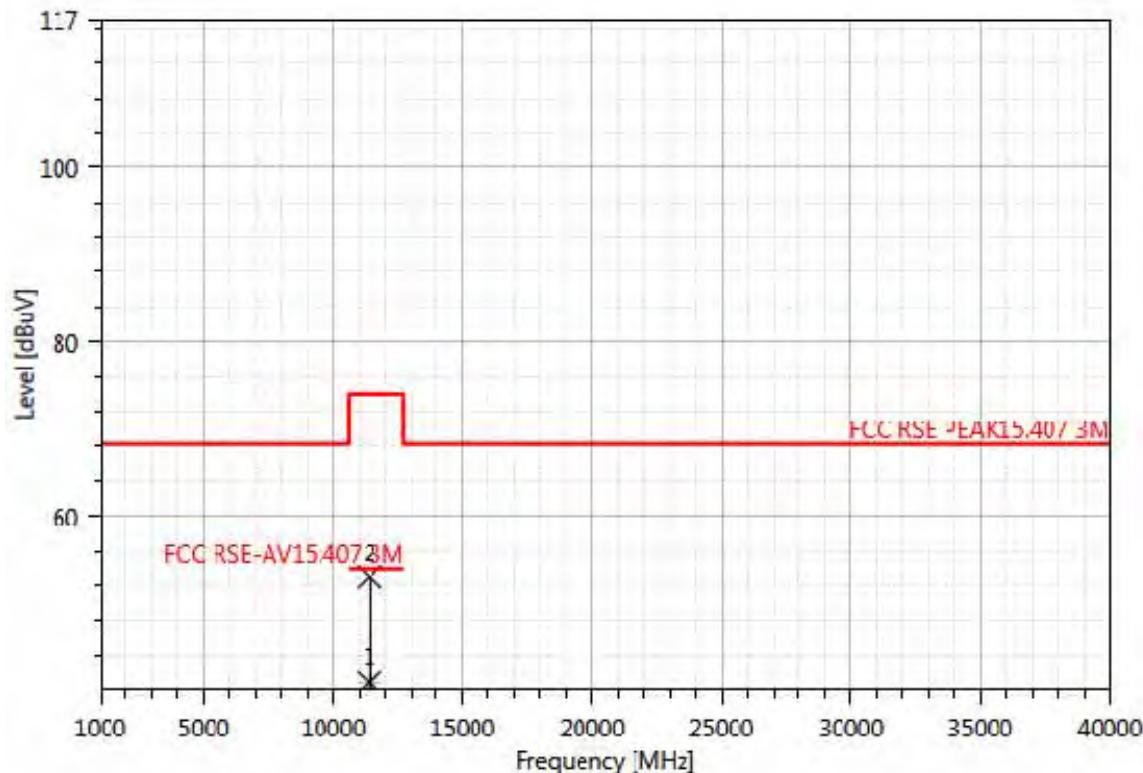
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Operation Mode : 802.11aB3
Fundamental Frequency : 5700 MHz
Operation Band : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | Spectrum | Factor | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------|---------|----------|--------|------------------------|--------------|
| | | | Reading | FS | | | |
| 11400.00 | H | Average | 40.88 | 20.32 | 20.56 | 54.00 | -13.12 |
| 11400.00 | H | Peak | 52.99 | 32.44 | 20.56 | 74.00 | -21.01 |

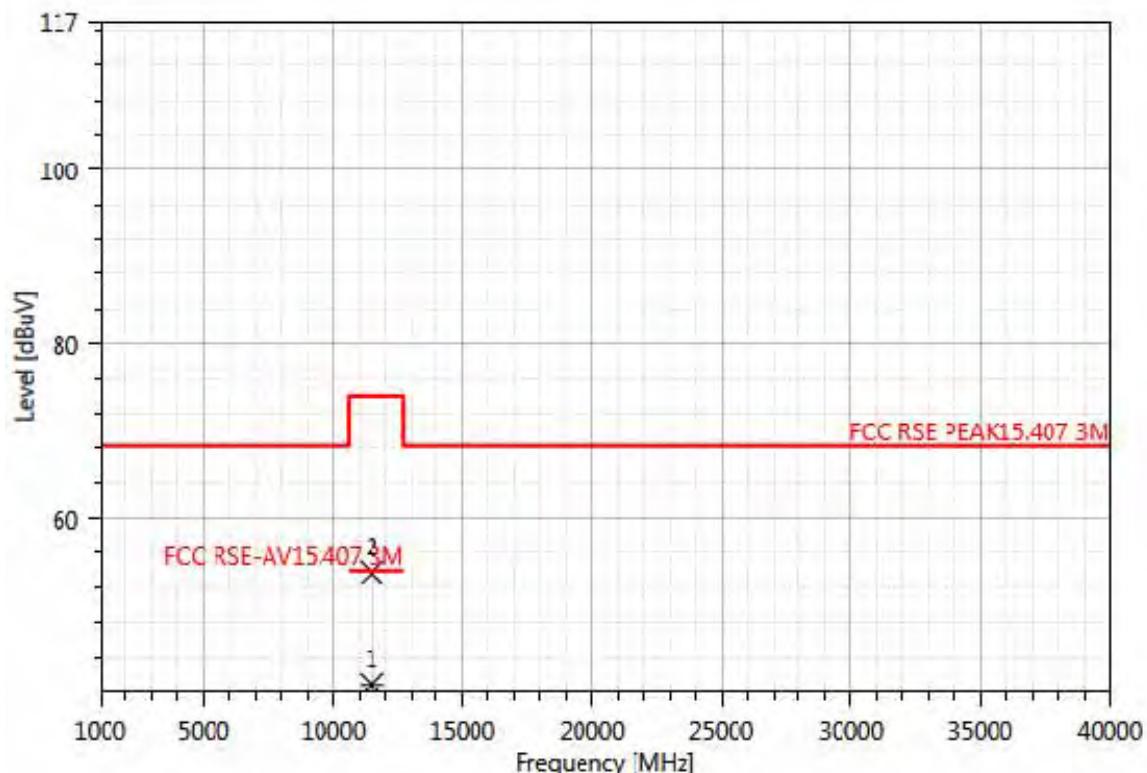
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Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode : 802.11aB4 Test Date : 08/17/2016
Fundamental Frequency : 5745 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL



| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level dB μ V/m | Spectrum FS dBuV/m | Factor dB | Limit @ 3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------|--|--------------------------|--------------|-------------------------|--------------|
| | | | | | | dB μ V/m | dB |
| 11490.00 | H | Average | 40.87 | 20.45 | 20.42 | 54.00 | -13.13 |
| 11490.00 | H | Peak | 53.76 | 33.34 | 20.42 | 74.00 | -20.24 |

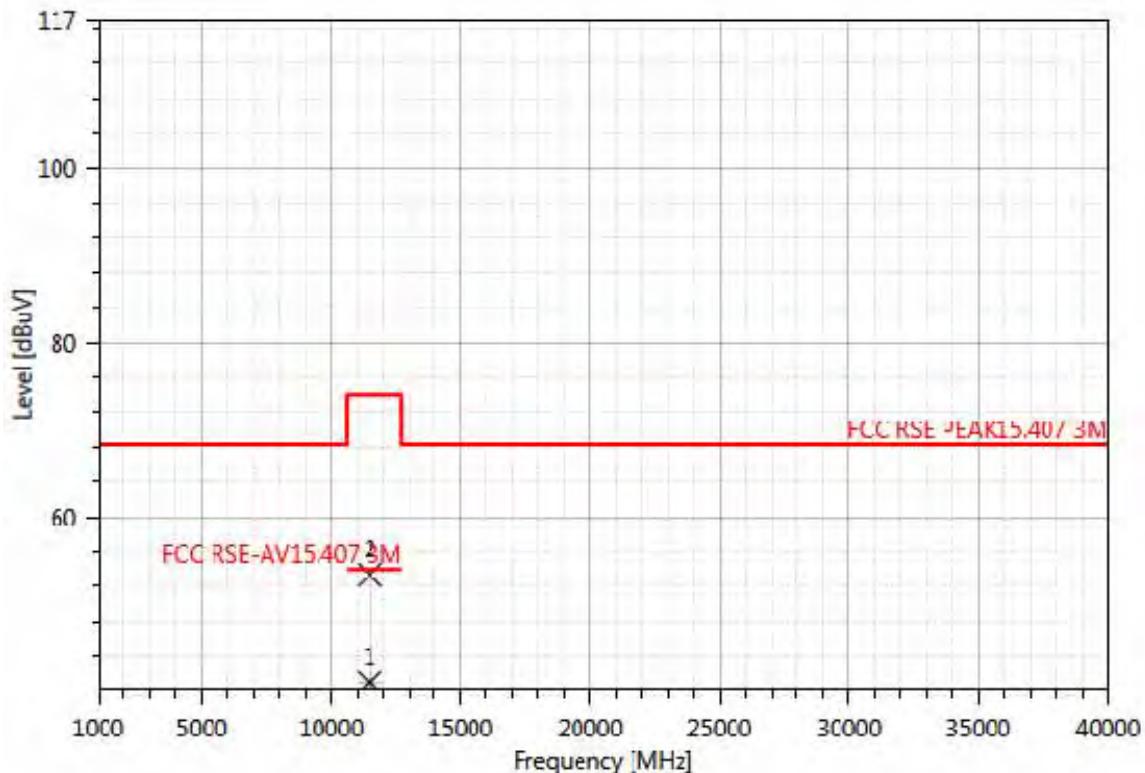
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Operation Mode : 802.11aB4
Fundamental Frequency : 5745 MHz
Operation Band : Tx CH LOW
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



| Freq. | Note | Decetor | Actual | Spectrum | Factor | Limit | Margin |
|----------|---------|----------|--------------|--------------|--------|--------------|--------|
| | | | | | | FS | @ 3m |
| MHz | F/H/E/S | QP/AV/PK | dB μ V/m | dB μ V/m | dB | dB μ V/m | dB |
| 11490.00 | H | Average | 41.04 | 20.62 | 20.42 | 54.00 | -12.96 |
| 11490.00 | H | Peak | 53.38 | 32.96 | 20.42 | 74.00 | -20.62 |

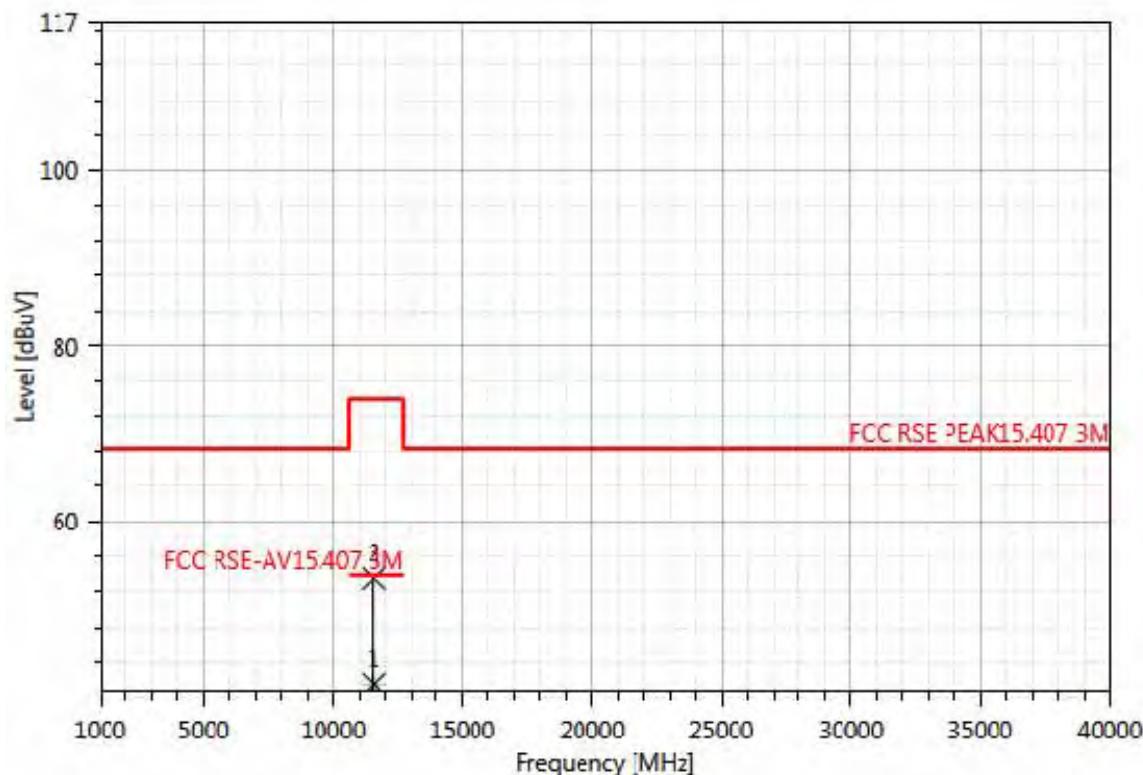
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Operation Mode : 802.11aB4
Fundamental Frequency : 5785 MHz
Operation Band : Tx CH MID
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : VERTICAL



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual Reading Level dB μ V/m | Spectrum | | Factor dB | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------------------|---|----------|--------------------|--------------|------------------------|--------------|
| | | | | Mode | FS dB μ V/m | | | |
| 11570.00 | H | Average | 41.45 | 20.86 | 20.59 | 20.59 | 54.00 | -12.55 |
| 11570.00 | H | Peak | 53.52 | 32.94 | 20.59 | 20.59 | 74.00 | -20.48 |

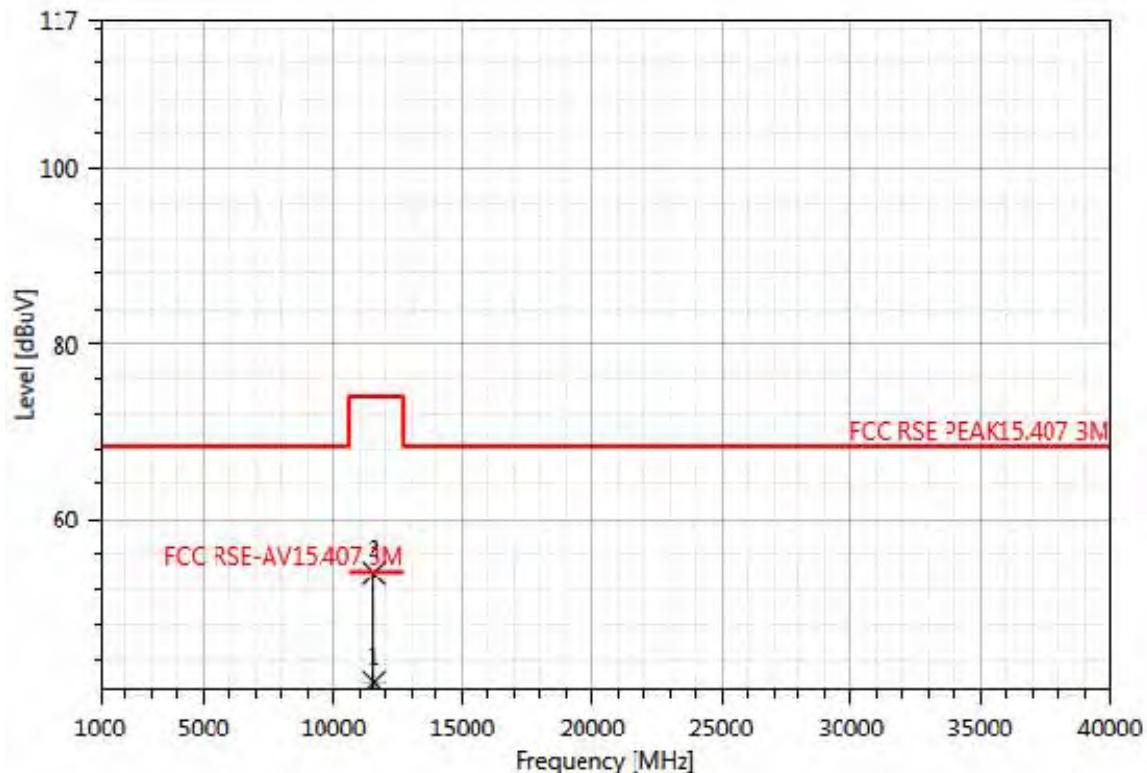
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Operation Mode : 802.11aB4
Fundamental Frequency : 5785 MHz
Operation Band : Tx CH MID
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level dB μ V/m | Spectrum | | Factor dB | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|-----------------|---|----------|--------------------|--------------|------------------------------|--------------|
| | | | | QP/AV/PK | FS dB μ V/m | | | |
| 11570.00 | H | Average | 41.35 | | 20.76 | 20.59 | 54.00 | -12.65 |
| 11570.00 | H | Peak | 53.80 | | 33.21 | 20.59 | 74.00 | -20.20 |

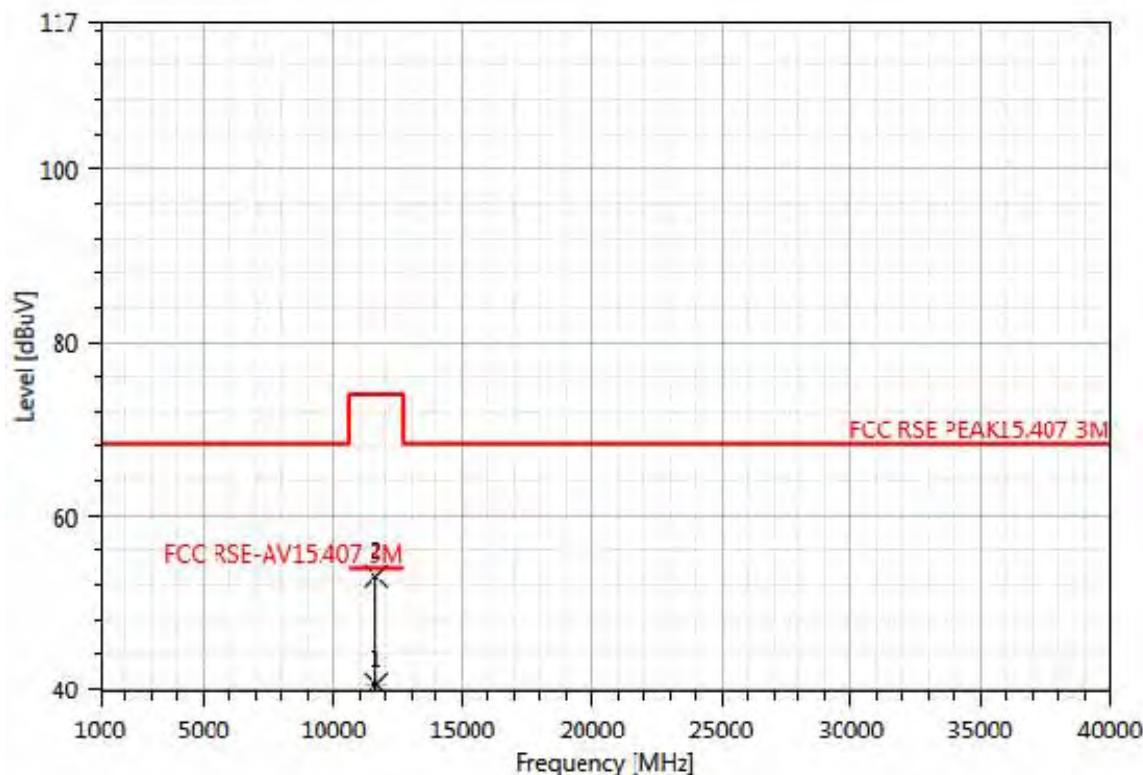
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Operation Mode : 802.11aB4
Fundamental Frequency : 5825 MHz
Operation Band : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : VERTICAL



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual Reading Level dB μ V/m | Spectrum | | Factor dB | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------------------|---|----------|--------------------|--------------|------------------------|--------------|
| | | | | Mode | FS dB μ V/m | | | |
| 11650.00 | H | Average | 40.55 | 20.12 | 20.43 | 54.00 | 54.00 | -13.45 |
| 11650.00 | H | Peak | 53.03 | 32.60 | 20.43 | 74.00 | 74.00 | -20.97 |

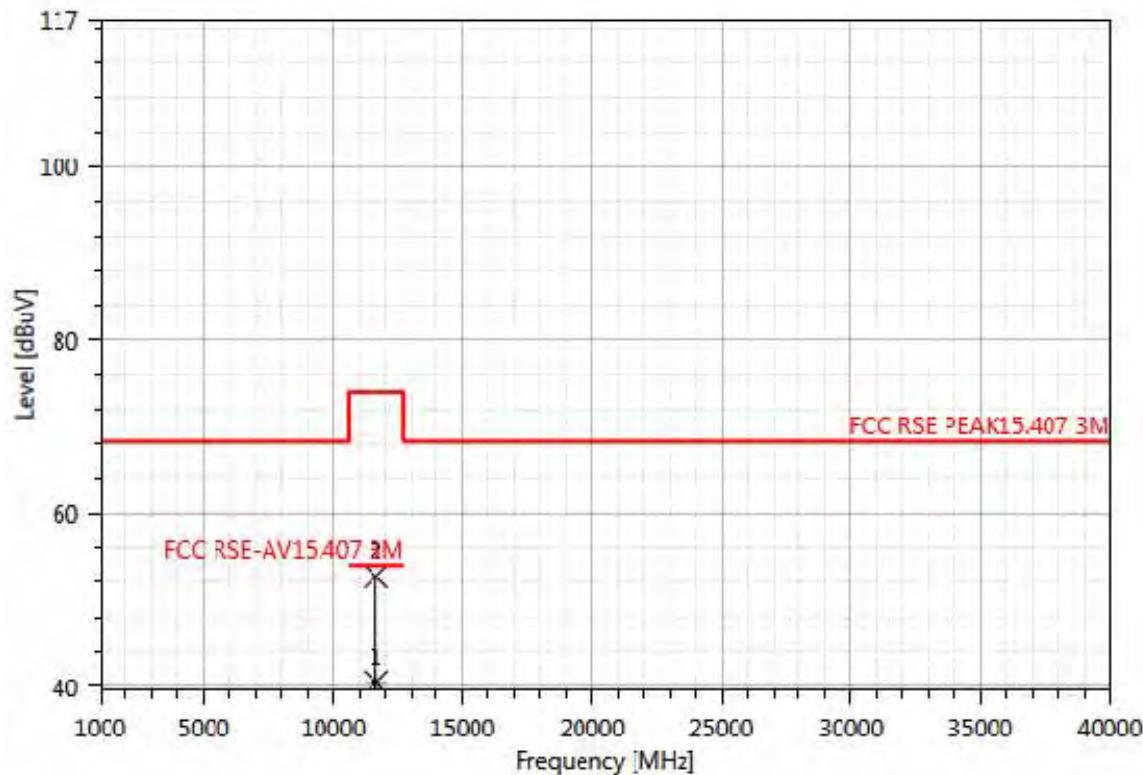
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Operation Mode : 802.11aB4
Fundamental Frequency : 5825 MHz
Operation Band : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual | Spectrum | Factor | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------------------|---------|----------|--------|------------------------|--------------|
| | | | Reading | FS | | | |
| 11650.00 | H | Average | 40.47 | 20.04 | 20.43 | 54.00 | -13.53 |
| 11650.00 | H | Peak | 52.72 | 32.28 | 20.43 | 74.00 | -21.28 |

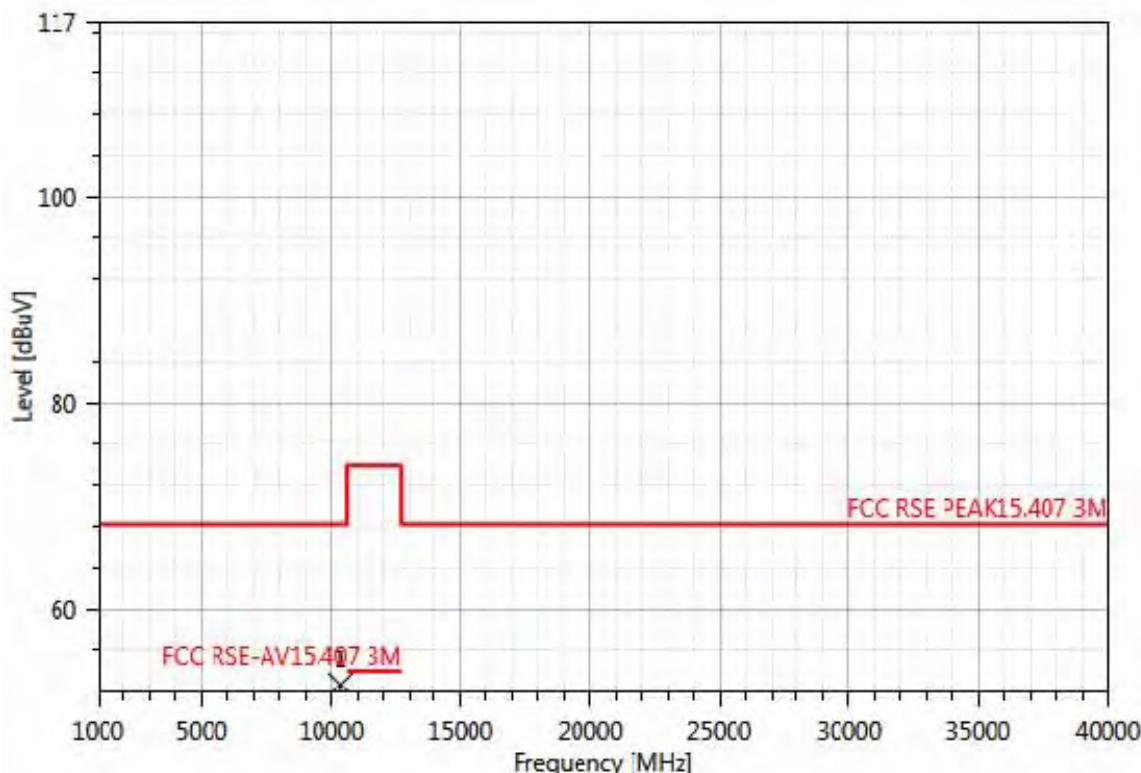
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode : 802.11n20B1 Test Date : 08/17/2016
Fundamental Frequency : 5180 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL



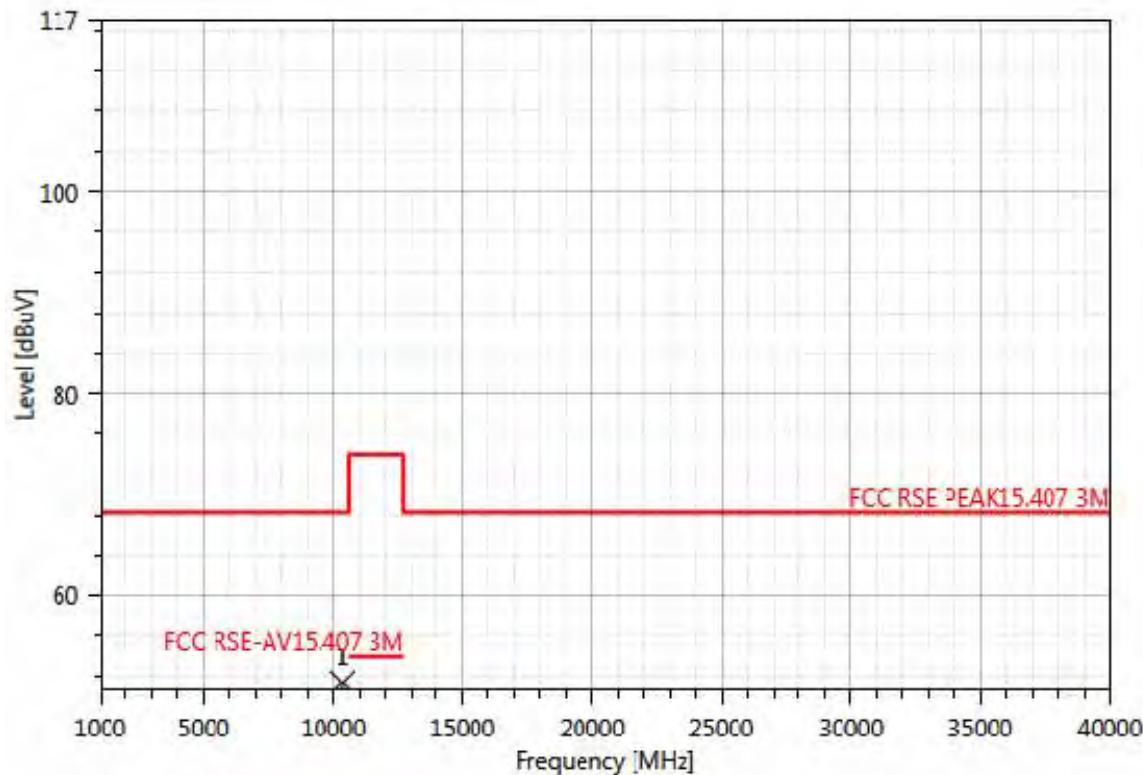
| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------|----------------|--------------|-------|--------|
| | | | QP/AV/PK | dB μ V/m | dB μ V/m | dB | dBuV/m |
| 10360.00 | H | Peak | 52.67 | 34.38 | 18.29 | 68.30 | -15.63 |

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Operation Mode : 802.11n20B1 Test Date : 08/17/2016
Fundamental Frequency : 5180 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL



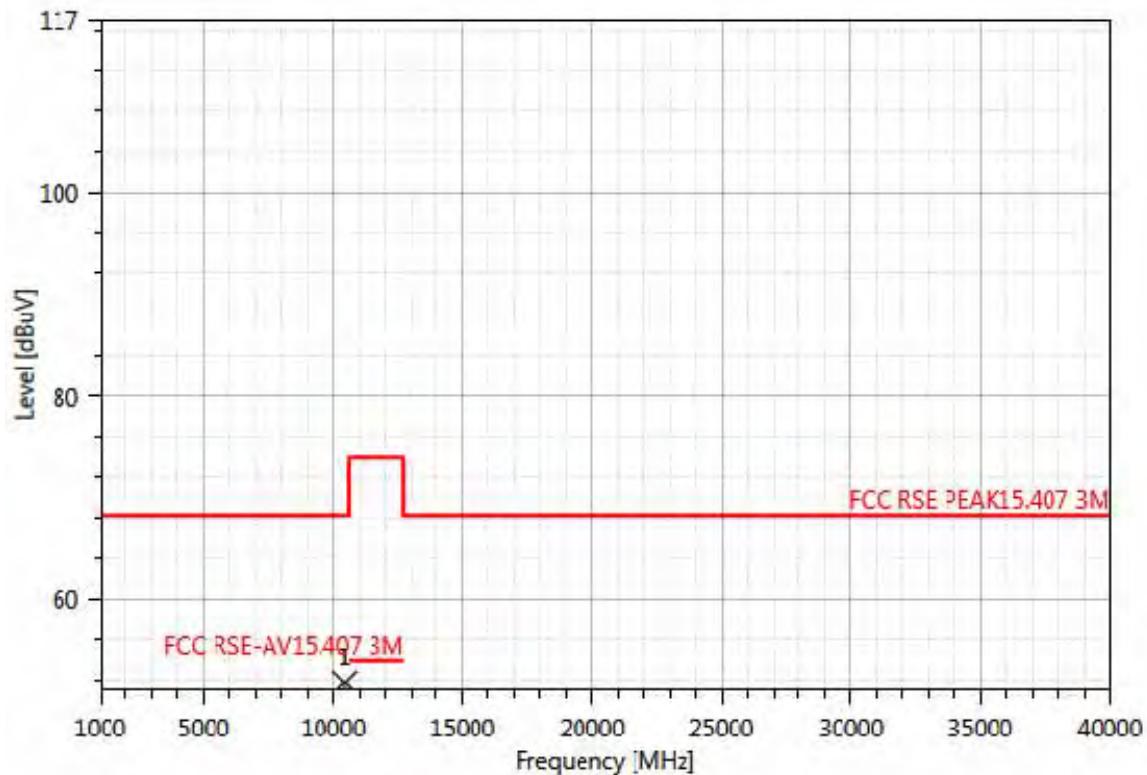
| Freq. | Note | Decetor | Actual | Spectrum | Factor | Limit | Margin |
|----------|---------|---------|---------|----------|--------|-------|--------|
| MHz | F/H/E/S | Mode | Reading | FS | | @3m | |
| 10360.00 | H | Peak | 51.43 | 33.13 | 18.29 | 68.30 | -16.87 |

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Operation Mode : 802.11n20B1 Test Date : 08/17/2016
Fundamental Frequency : 5220 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH MID Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL



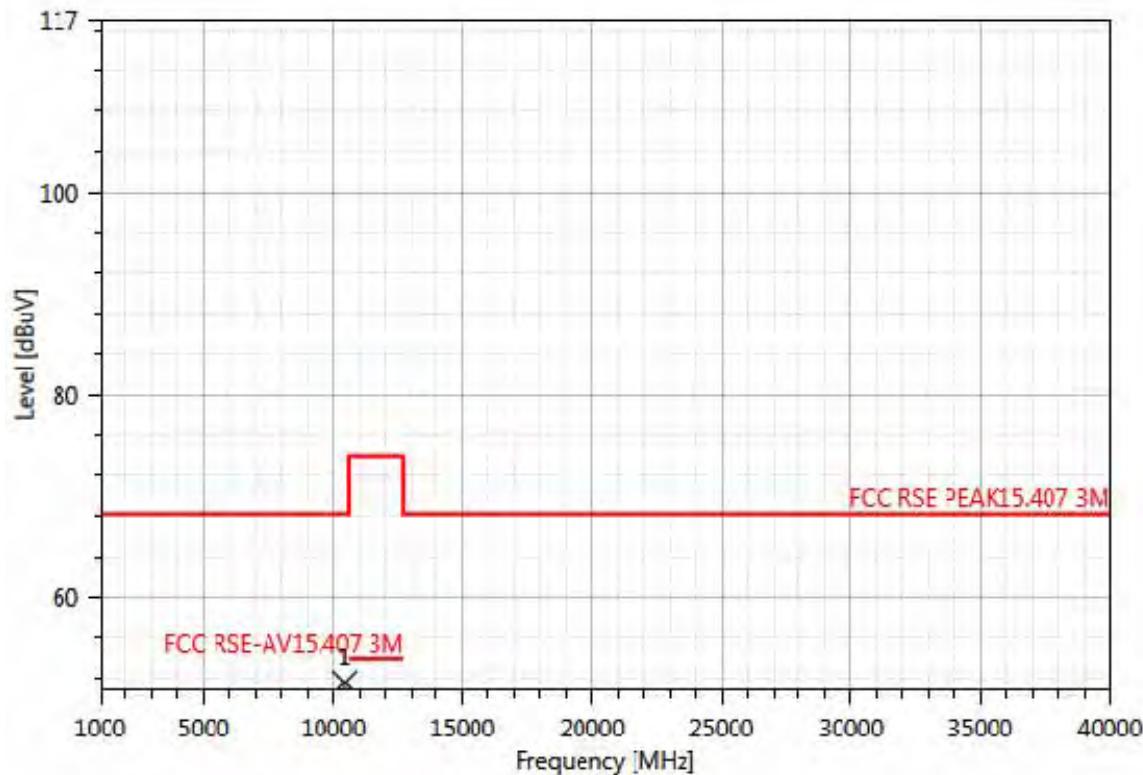
| Freq. | Note | Decetor | Actual | Spectrum | Factor | Limit | Margin |
|----------|---------|---------|---------|----------|--------|-------|--------|
| MHz | F/H/E/S | Mode | Reading | FS | | @3m | |
| 10440.00 | H | Peak | 51.84 | 33.16 | 18.68 | 68.30 | -16.46 |

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Operation Mode : 802.11n20B1 Test Date : 08/17/2016
Fundamental Frequency : 5220 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH MID Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL



| Freq. | Note | Decetor | Actual | Spectrum | Factor | Limit | Margin |
|----------|---------|---------|---------|----------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading | FS | dB | dBuV/m | dB |
| 10440.00 | H | Peak | 51.65 | 32.97 | 18.68 | 68.30 | -16.65 |

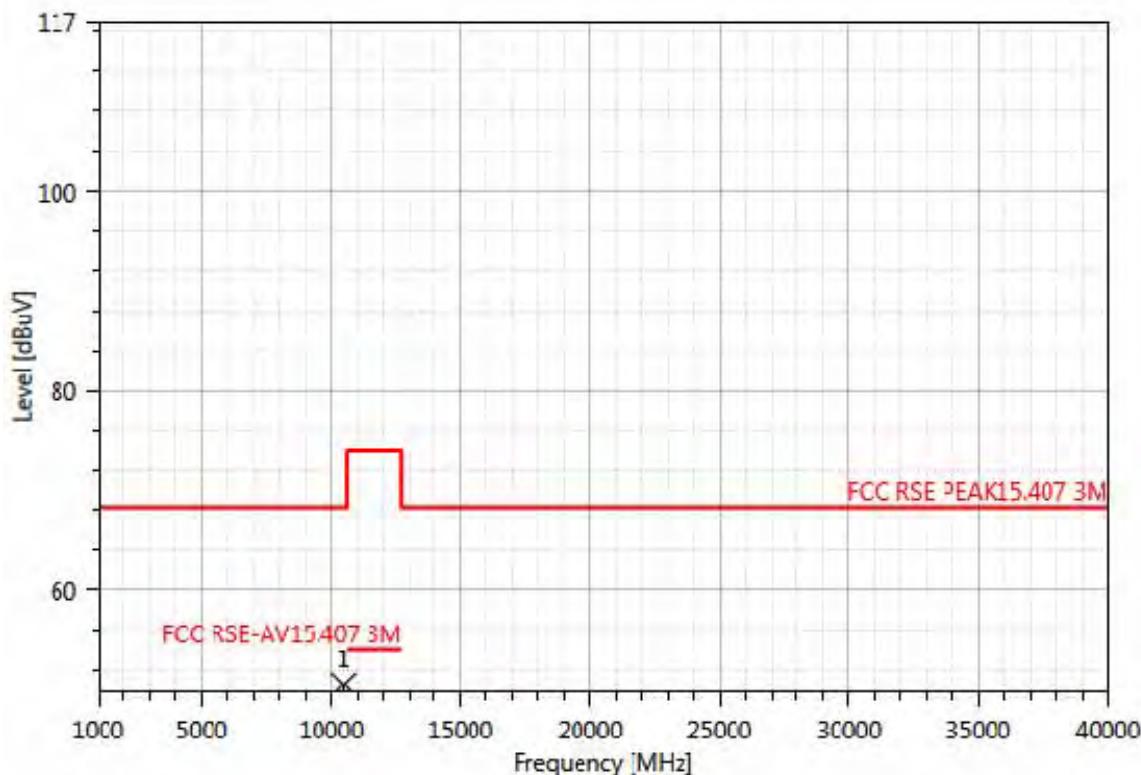
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Operation Mode : 802.11n20B1
Fundamental Frequency : 5240 MHz
Operation Band : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : VERTICAL



| Freq. | Note | Decetor | Actual | Spectrum | Factor | Limit | Margin |
|----------|---------|----------|---------|--------------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading | FS | | @3m | |
| | | QP/AV/PK | Level | dB μ V/m | dB | dBuV/m | dB |
| 10480.00 | H | Peak | 50.55 | 32.25 | 18.29 | 68.30 | -17.75 |

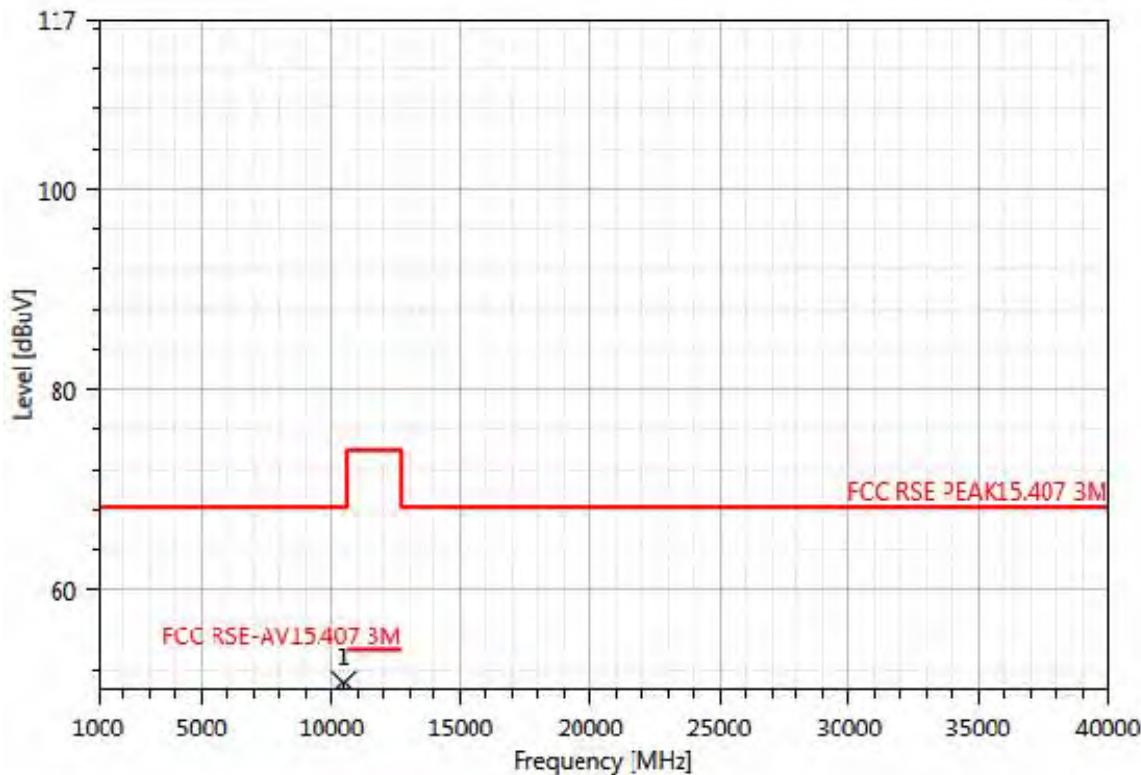
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Operation Mode : 802.11n20B1
Fundamental Frequency : 5240 MHz
Operation Band : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level dB μ V/m | Spectrum FS dB μ V/m | Factor dB | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|-----------------|---|--------------------------------|--------------|------------------------------|--------------|
| 10480.00 | H | Peak | 50.76 | 32.47 | 18.29 | 68.30 | -17.54 |

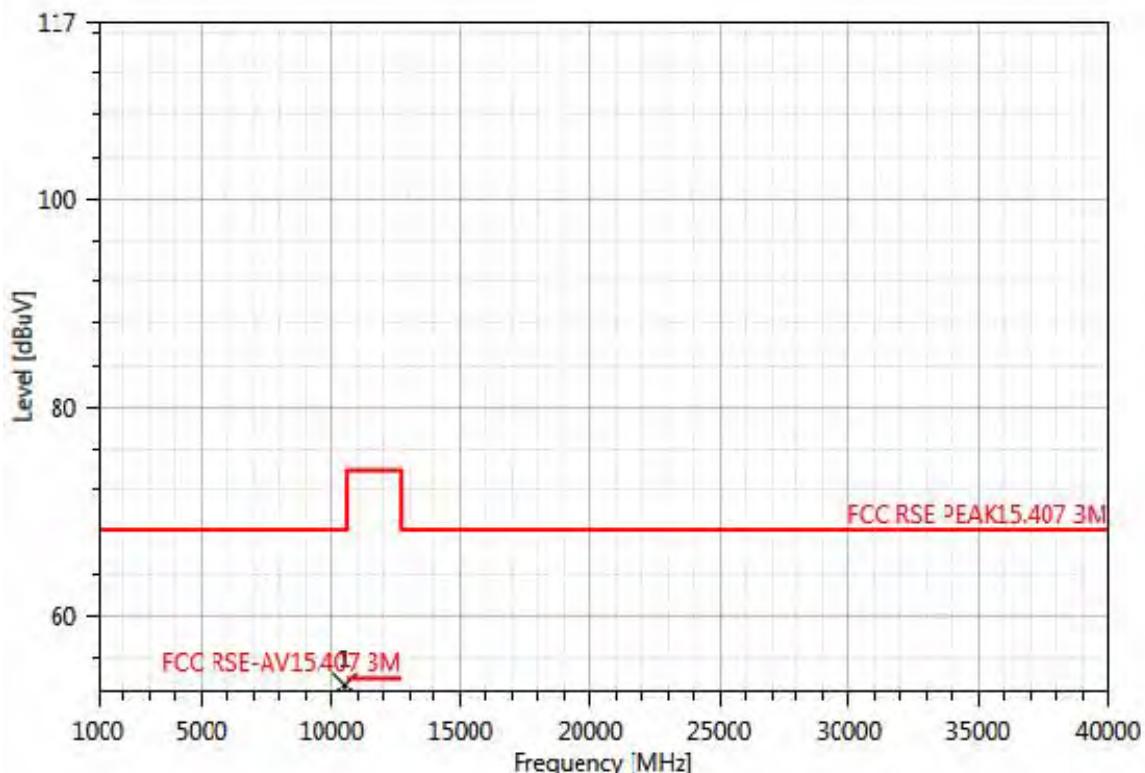
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode : 802.11n20B2 Test Date : 08/17/2016
Fundamental Frequency : 5260 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL



| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading | Spectrum FS | Factor | Limit @ 3m | Margin |
|--------------|-----------------|-----------------|-------------------|----------------|--------|---------------|--------|
| | | | QP/AV/PK | dB μ V/m | dBuV/m | dB | dB |
| 10520.00 | H | Peak | 53.37 | 34.00 | 19.37 | 68.30 | -14.93 |

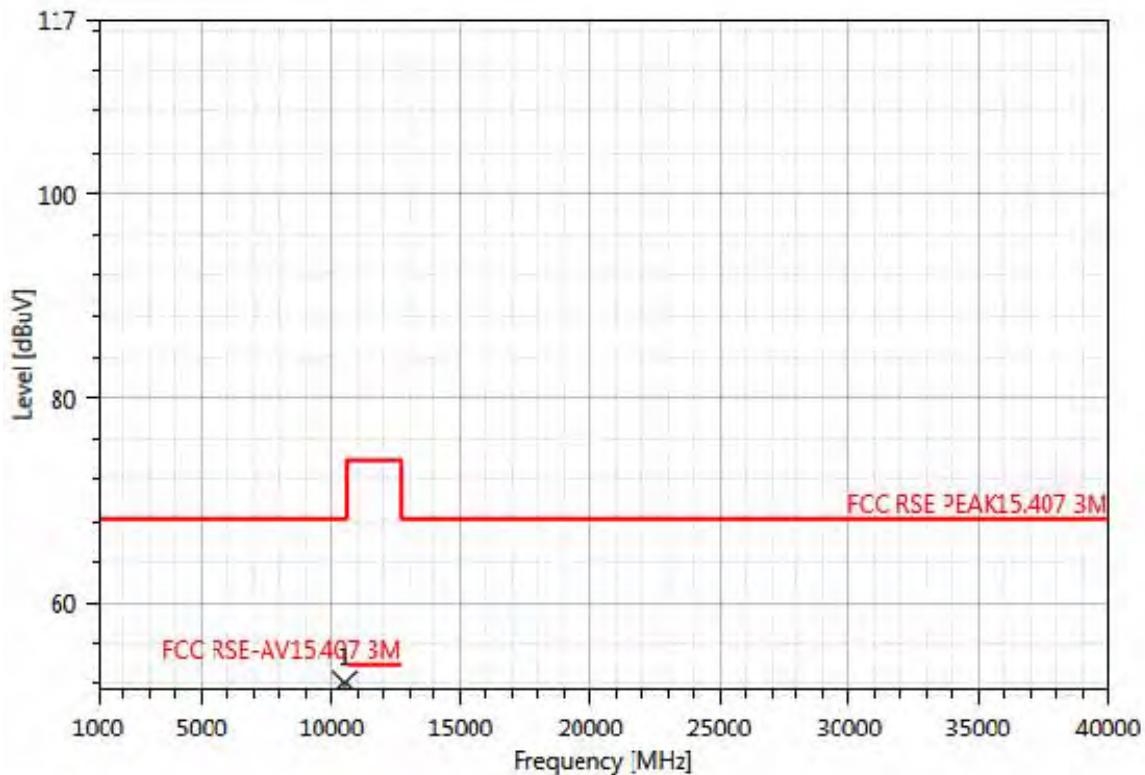
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Operation Mode : 802.11n20B2 Test Date : 08/17/2016
Fundamental Frequency : 5260 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL



| Freq. | Note | Decetor | Actual | Spectrum | Factor | Limit | Margin |
|----------|---------|----------|--------------|--------------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading | FS | | @3m | |
| | | QP/AV/PK | dB μ V/m | dB μ V/m | dB | dBuV/m | dB |
| 10520.00 | H | Peak | 52.24 | 32.87 | 19.37 | 68.30 | -16.06 |

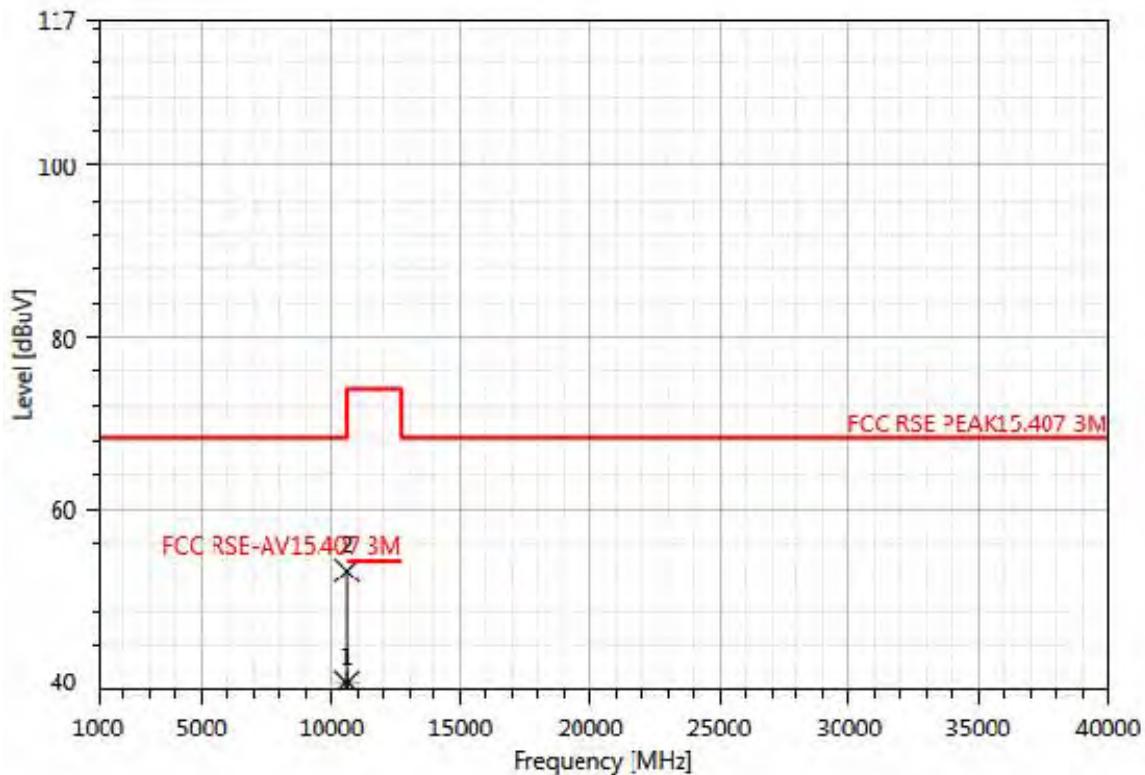
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Operation Mode : 802.11n20B2 Test Date : 08/17/2016
Fundamental Frequency : 5300 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH MID Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL



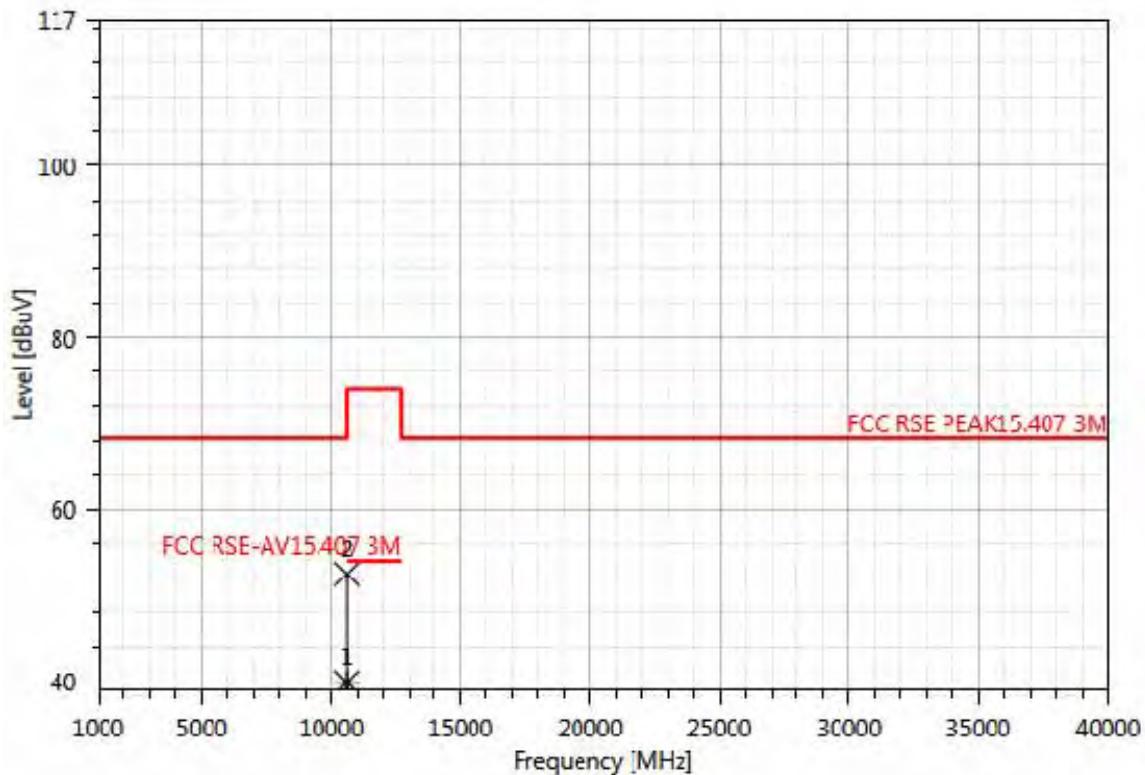
| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | Spectrum | Factor dB | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------|---------|----------|--------------|------------------------|--------------|
| | | | Reading | FS | | | |
| 10600.00 | H | Average | 39.86 | 20.95 | 18.91 | 54.00 | -14.14 |
| 10600.00 | H | Peak | 52.87 | 33.96 | 18.91 | 74.00 | -21.13 |

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Operation Mode : 802.11n20B2 Test Date : 08/17/2016
Fundamental Frequency : 5300 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH MID Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL



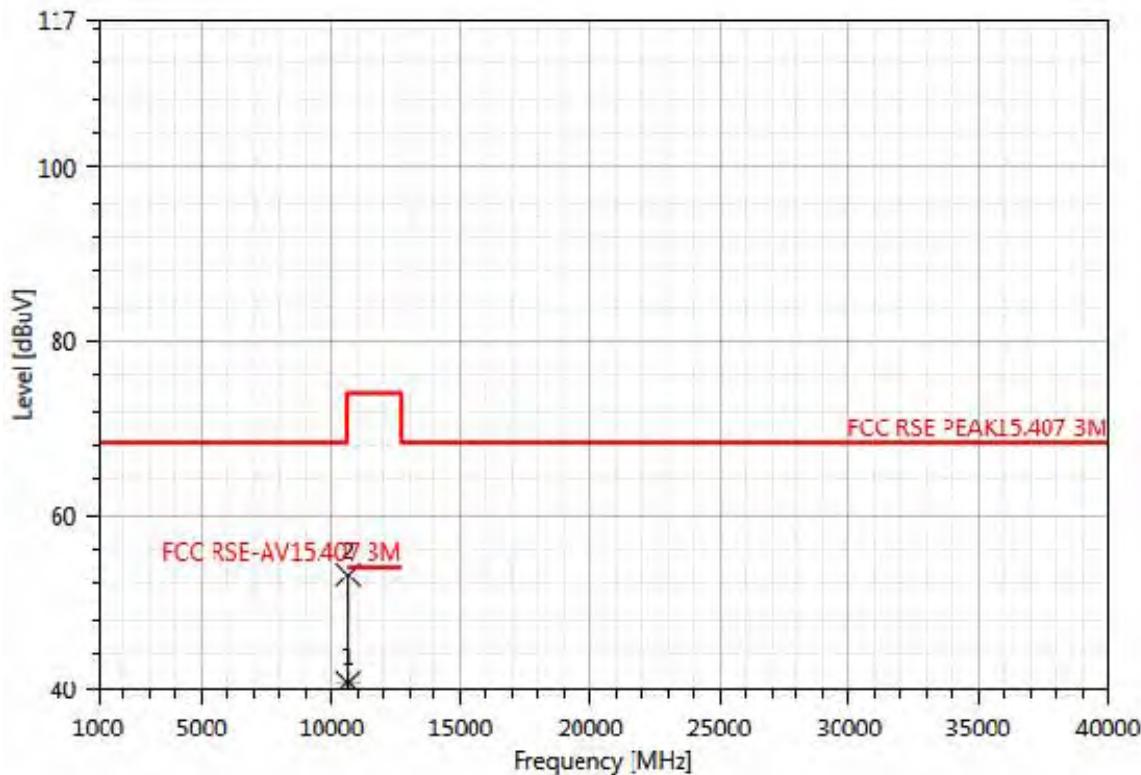
| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual Reading Level dB μ V/m | Spectrum | | Factor dB | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|-----------------------------|---|----------|--------------------|--------------|------------------------------|--------------|
| | | | | Mode | FS dB μ V/m | | | |
| 10600.00 | H | Average | 39.88 | 20.97 | 18.91 | 54.00 | 54.00 | -14.12 |
| 10600.00 | H | Peak | 52.49 | 33.58 | 18.91 | 74.00 | 74.00 | -21.51 |

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Operation Mode : 802.11n20B2 Test Date : 08/17/2016
Fundamental Frequency : 5320 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH HIGH Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL



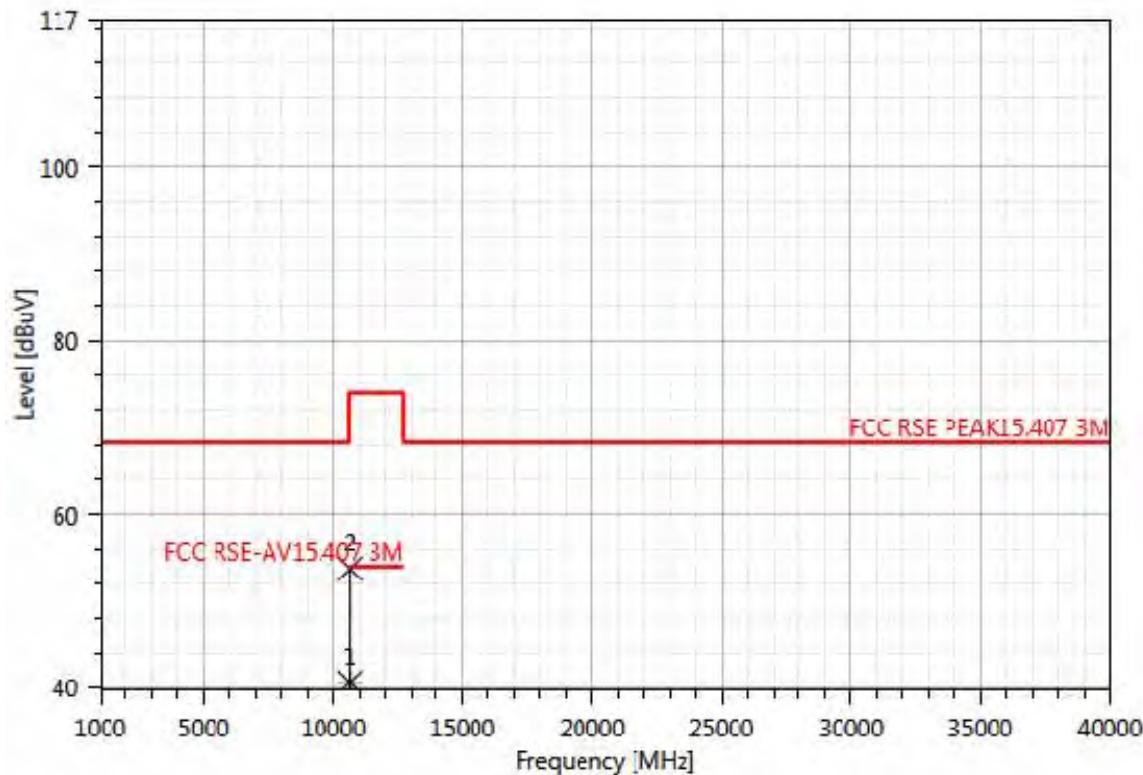
| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | Spectrum | Factor | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------|---------|----------|--------|------------------------|--------------|
| | | | Reading | FS | | | |
| 10640.00 | H | Average | 40.71 | 21.53 | 19.18 | 54.00 | -13.29 |
| 10640.00 | H | Peak | 53.08 | 33.90 | 19.18 | 74.00 | -20.92 |

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Operation Mode : 802.11n20B2 Test Date : 08/17/2016
Fundamental Frequency : 5320 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH HIGH Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL



| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | Spectrum | Factor | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------|---------|----------|--------|------------------------|--------------|
| | | | Reading | FS | | | |
| 10640.00 | H | Average | 40.63 | 21.45 | 19.18 | 54.00 | -13.37 |
| 10640.00 | H | Peak | 53.73 | 34.54 | 19.18 | 74.00 | -20.27 |

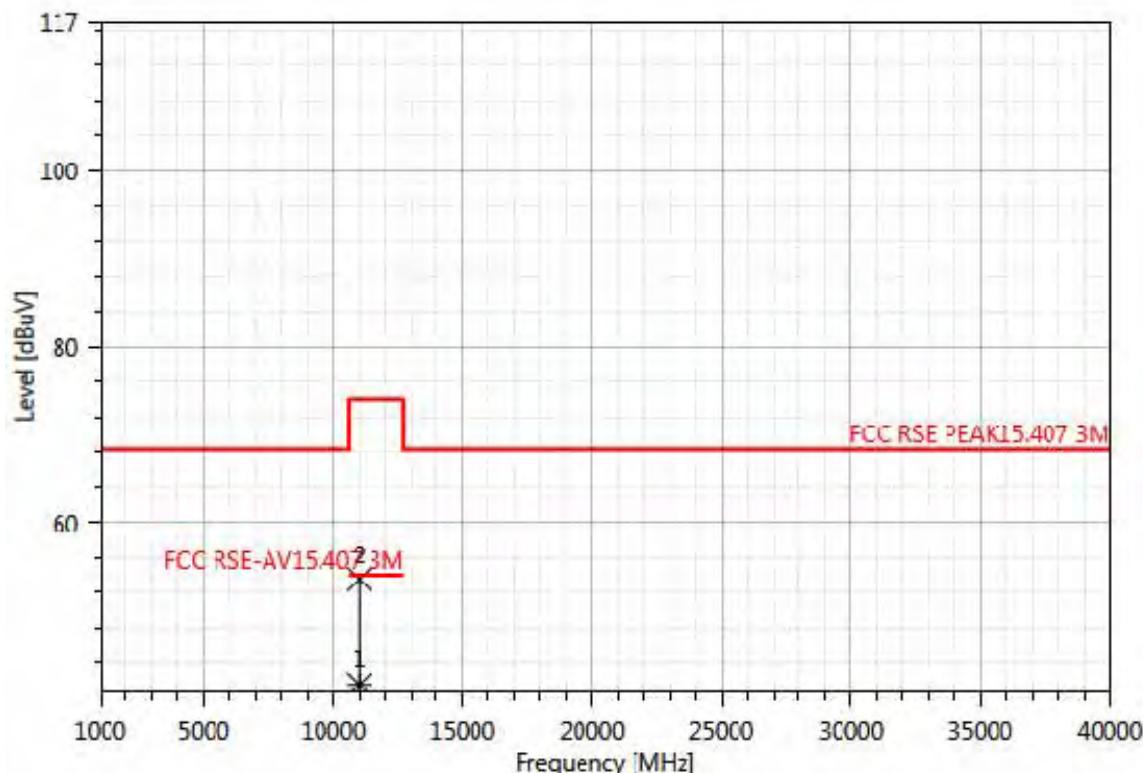
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode : 802.11n20B3 Test Date : 08/17/2016
Fundamental Frequency : 5500 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL



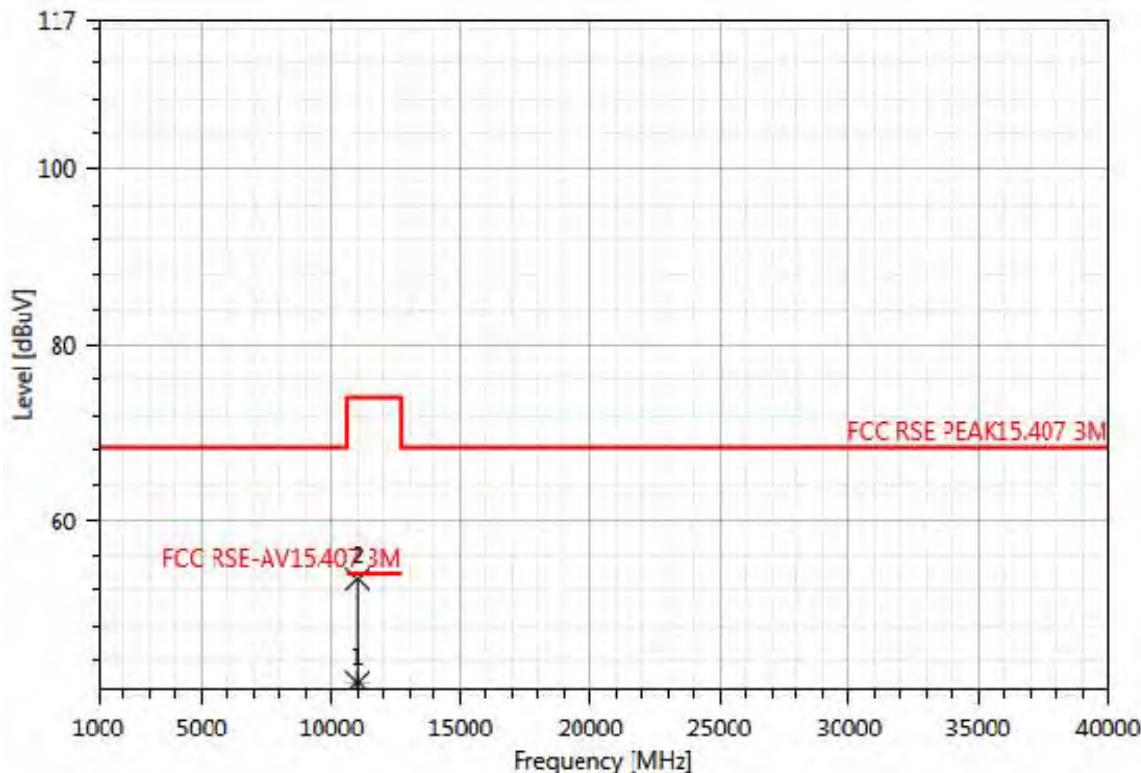
| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading QP/AV/PK | Spectrum FS dB μ V/m | Factor dB | Margin | |
|--------------|-----------------|-----------------|-------------------------------|--------------------------------|--------------|-------------------------|--------------|
| | | | | | | Limit @ 3m dBuV/m | Margin dB |
| 11000.00 | H | Average | 41.51 | 21.34 | 20.17 | 54.00 | -12.49 |
| 11000.00 | H | Peak | 53.51 | 33.34 | 20.17 | 74.00 | -20.49 |

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Operation Mode : 802.11n20B3 Test Date : 08/17/2016
Fundamental Frequency : 5500 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL



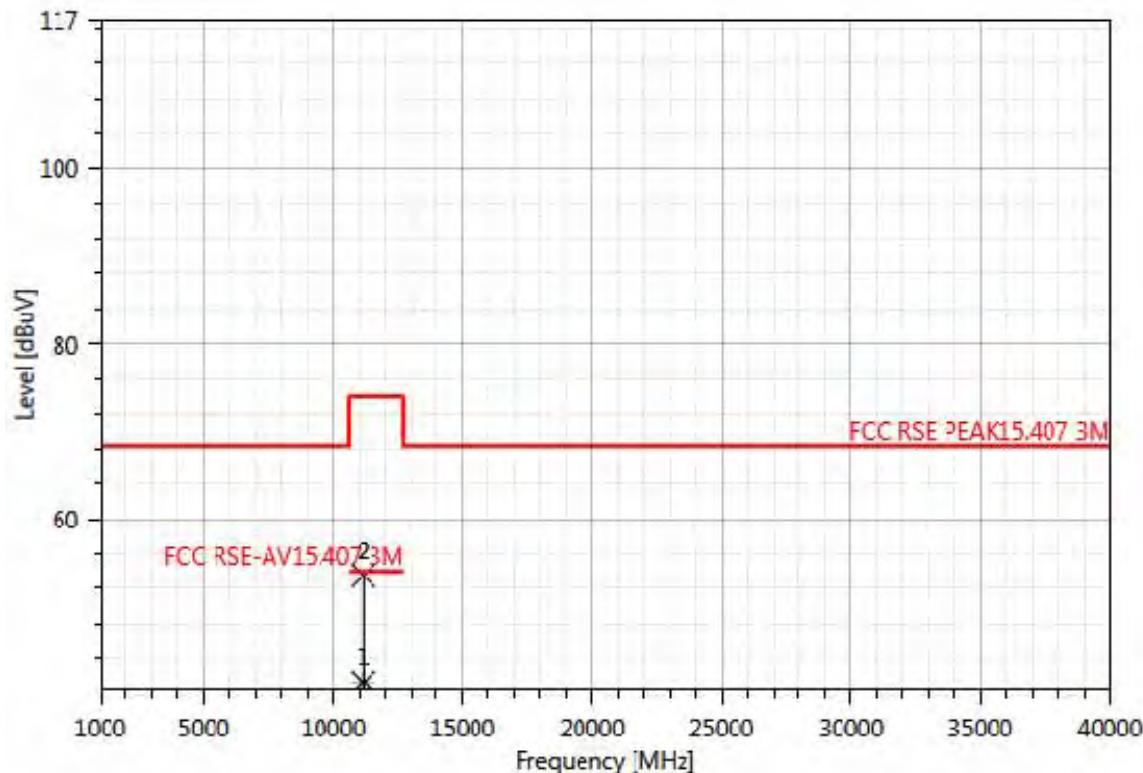
| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | Spectrum | Factor | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------|---------|----------|--------|------------------------|--------------|
| | | | Reading | FS | | | |
| 11000.00 | H | Average | 41.56 | 21.39 | 20.17 | 54.00 | -12.44 |
| 11000.00 | H | Peak | 53.30 | 33.13 | 20.17 | 74.00 | -20.70 |

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Operation Mode : 802.11n20B3 Test Date : 08/17/2016
Fundamental Frequency : 5580 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH MID Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL



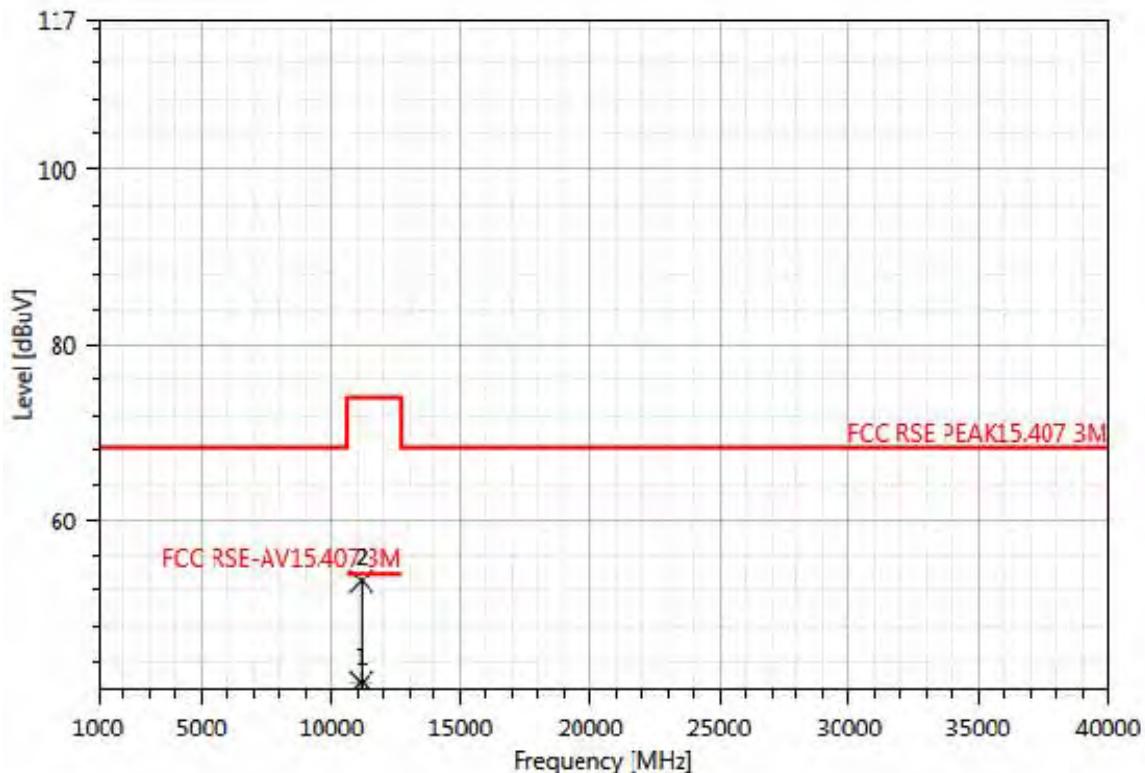
| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | Spectrum | Factor dB | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------|---------|----------|--------------|------------------------|--------------|
| | | | Reading | FS | | | |
| 11160.00 | H | Average | 41.31 | 20.86 | 20.45 | 54.00 | -12.69 |
| 11160.00 | H | Peak | 53.52 | 33.07 | 20.45 | 74.00 | -20.48 |

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Operation Mode : 802.11n20B3 Test Date : 08/17/2016
Fundamental Frequency : 5580 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH MID Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL



| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level dB μ V/m | Spectrum | | Factor dB | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------|---|----------|--------------------|--------------|------------------------|--------------|
| | | | | QP/AV/PK | FS dB μ V/m | | | |
| 11160.00 | H | Average | 41.58 | | 21.13 | 20.45 | 54.00 | -12.42 |
| 11160.00 | H | Peak | 53.08 | | 32.63 | 20.45 | 74.00 | -20.92 |

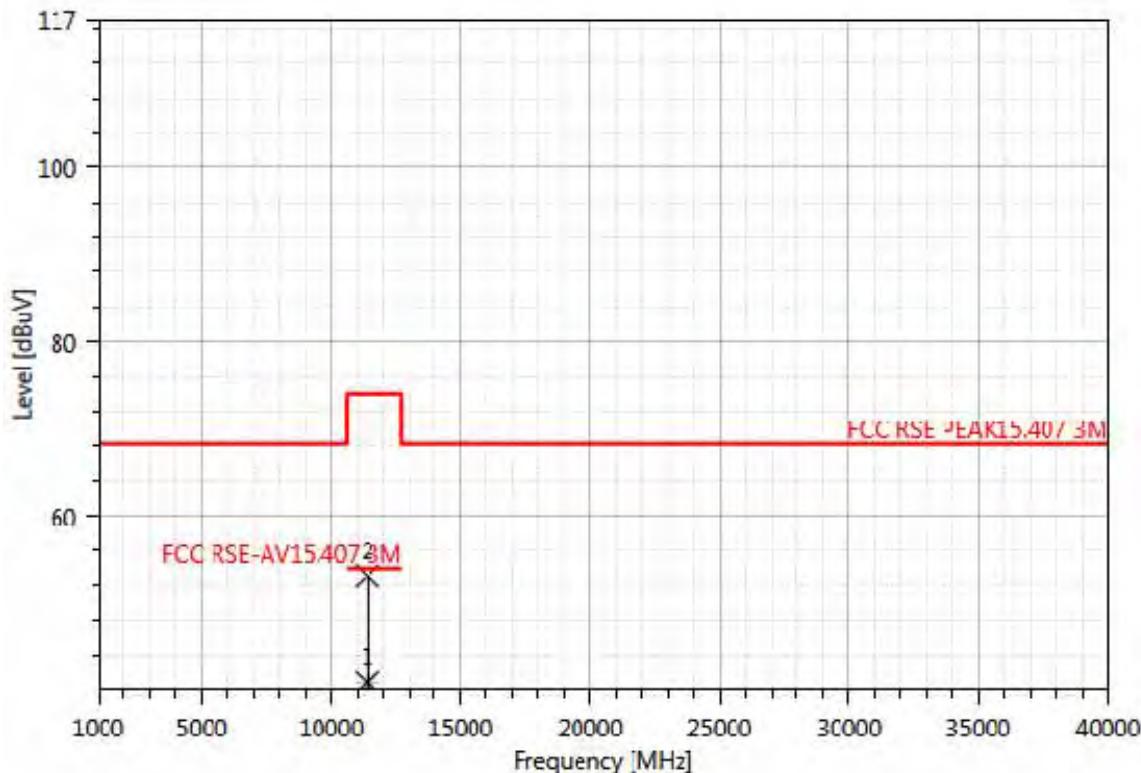
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Operation Mode : 802.11n20B3
Fundamental Frequency : 5700 MHz
Operation Band : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : VERTICAL



| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | Spectrum | Factor | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------|---------|----------|--------|------------------------|--------------|
| | | | Reading | FS | | | |
| 11400.00 | H | Average | 40.87 | 20.31 | 20.56 | 54.00 | -13.13 |
| 11400.00 | H | Peak | 53.07 | 32.52 | 20.56 | 74.00 | -20.93 |

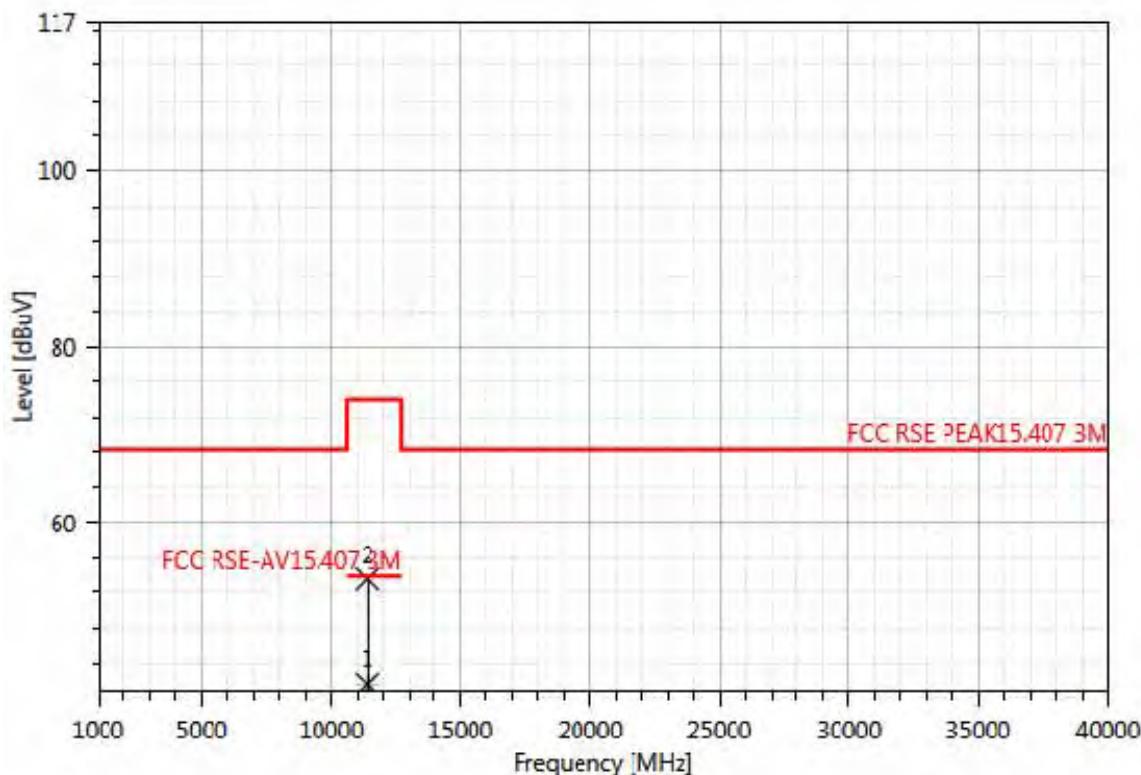
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Operation Mode : 802.11n20B3
Fundamental Frequency : 5700 MHz
Operation Band : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | Spectrum | Factor | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------|---------|----------|--------|------------------------|--------------|
| | | | Reading | FS | | | |
| 11400.00 | H | Average | 41.57 | 21.01 | 20.56 | 54.00 | -12.43 |
| 11400.00 | H | Peak | 53.58 | 33.02 | 20.56 | 74.00 | -20.42 |

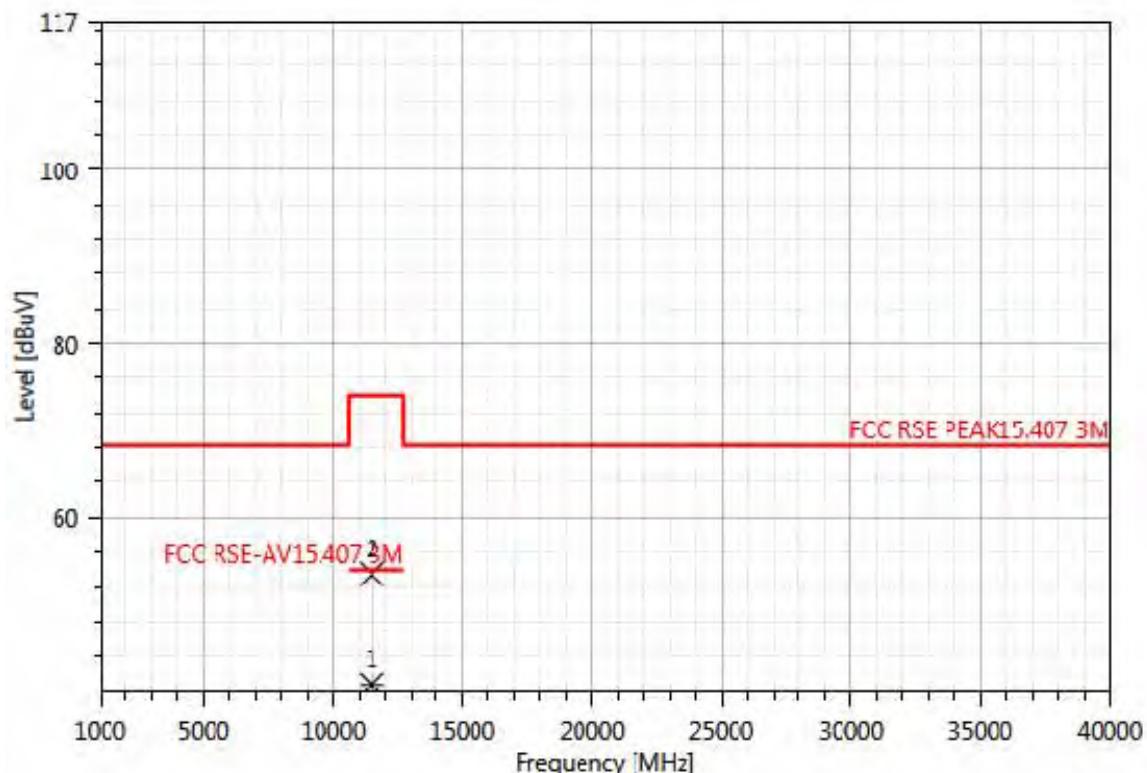
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode : 802.11n20B4 Test Date : 08/17/2016
Fundamental Frequency : 5745 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL



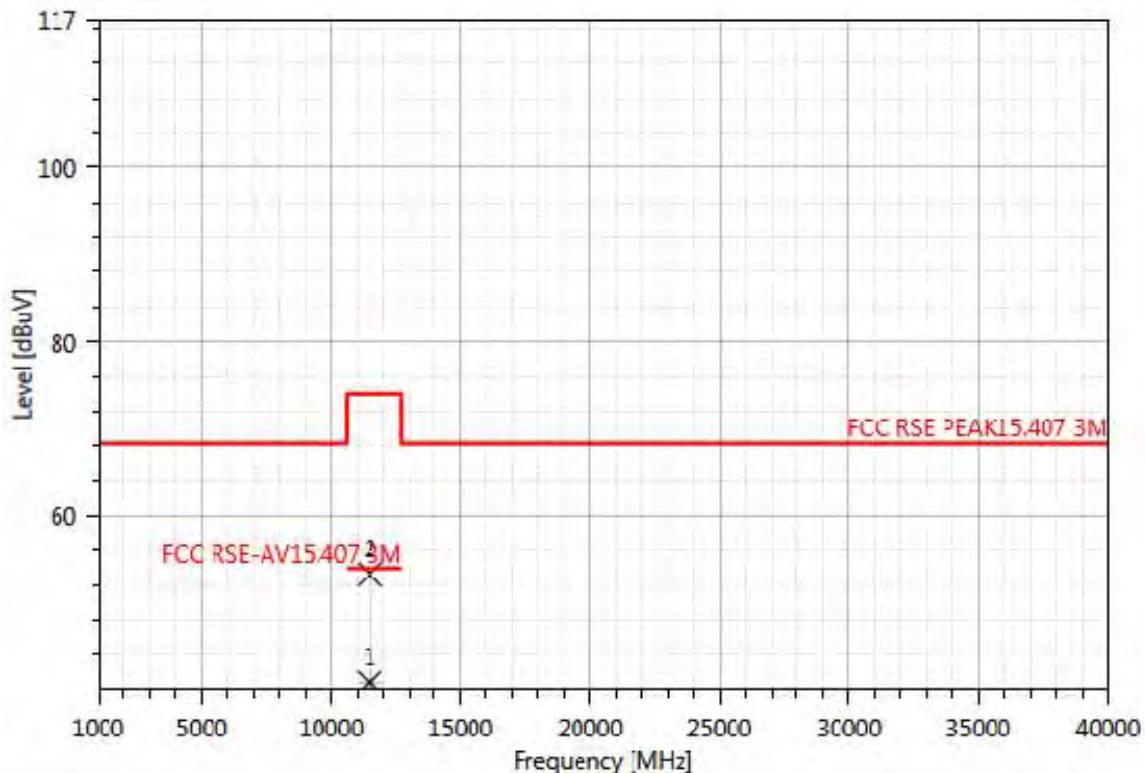
| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------|----------------|--------|-------|--------|
| | | | | | | @ 3m | dB |
| 11490.00 | H | Average | 40.79 | 20.37 | 20.42 | 54.00 | -13.21 |
| 11490.00 | H | Peak | 53.53 | 33.11 | 20.42 | 74.00 | -20.47 |

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Operation Mode : 802.11n20B4 Test Date : 08/17/2016
Fundamental Frequency : 5745 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL



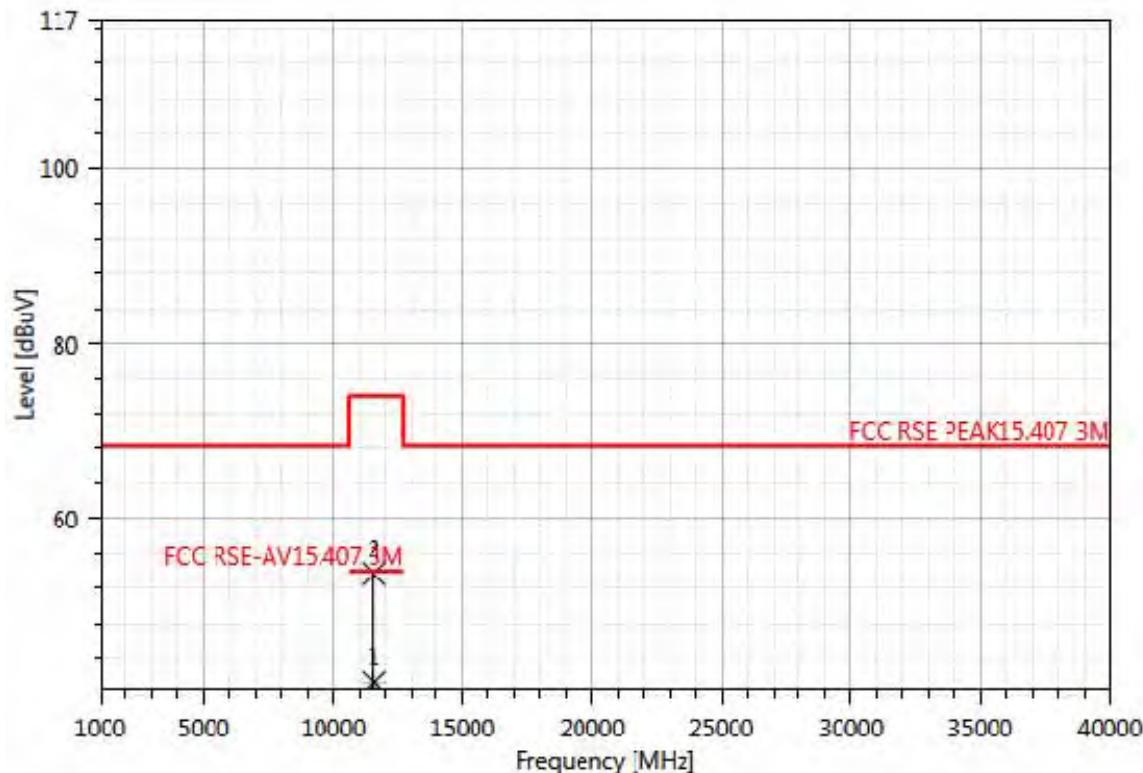
| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | Spectrum | Factor | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------|---------|----------|--------|------------------------|--------------|
| | | | Reading | FS | | | |
| 11490.00 | H | Average | 40.84 | 20.42 | 20.42 | 54.00 | -13.16 |
| 11490.00 | H | Peak | 53.27 | 32.85 | 20.42 | 74.00 | -20.73 |

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Operation Mode : 802.11n20B4 Test Date : 08/17/2016
Fundamental Frequency : 5785 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH MID Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL



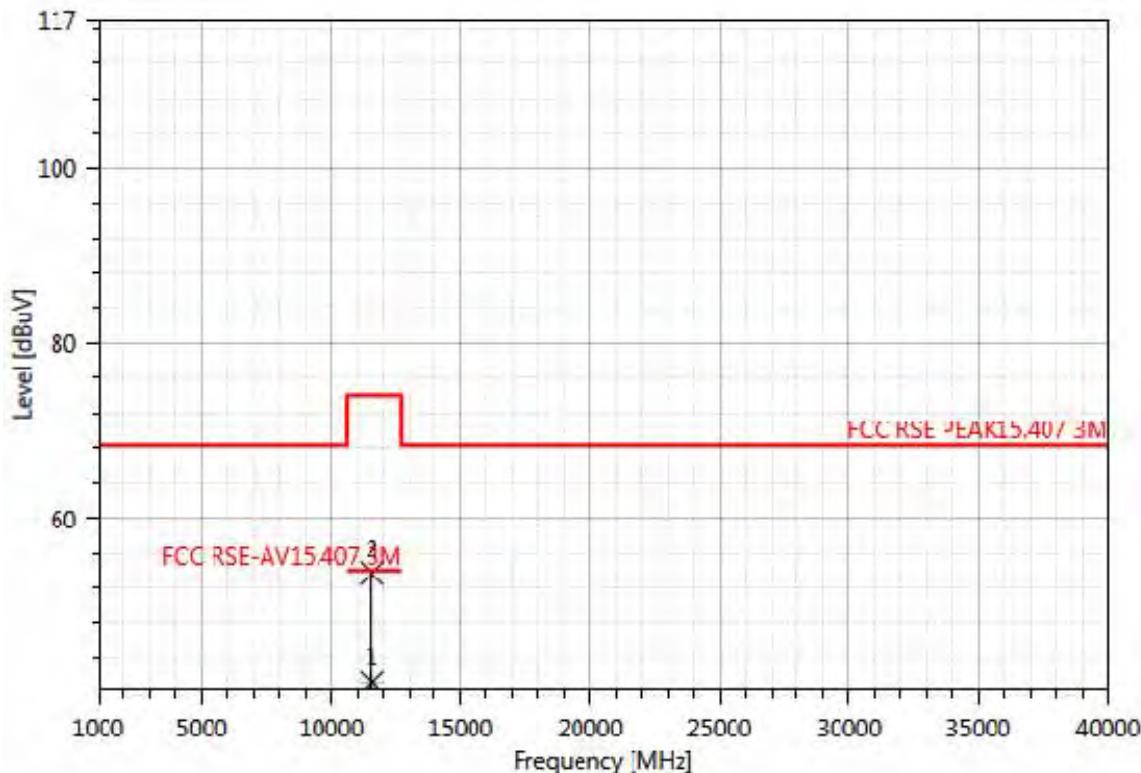
| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | Spectrum | Factor | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------|---------|----------|--------|------------------------|--------------|
| | | | Reading | FS | | | |
| 11570.00 | H | Average | 41.26 | 20.67 | 20.59 | 54.00 | -12.74 |
| 11570.00 | H | Peak | 53.69 | 33.10 | 20.59 | 74.00 | -20.31 |

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Operation Mode : 802.11n20B4 Test Date : 08/17/2016
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Tx CH MID Test Engineer : Kane
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL



| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | Spectrum | Factor | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------|--------------|--------------|--------|------------------------|--------------|
| | | | Reading | FS | | | |
| | | QP/AV/PK | dB μ V/m | dB μ V/m | dB | | |
| 11570.00 | H | Average | 41.17 | 20.58 | 20.59 | 54.00 | -12.83 |
| 11570.00 | H | Peak | 53.66 | 33.07 | 20.59 | 74.00 | -20.34 |

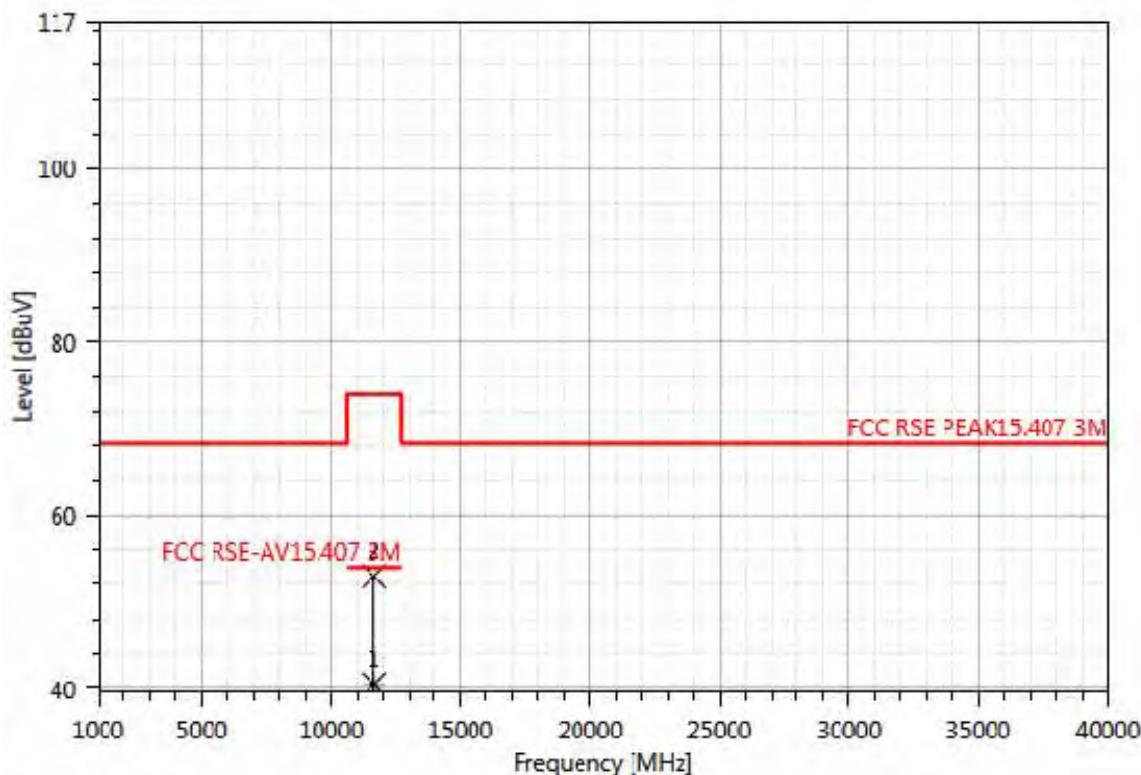
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Operation Mode : 802.11n20B4
Fundamental Frequency : 5825 MHz
Operation Band : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : VERTICAL



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual | Spectrum | Factor | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------------------|---------|----------|--------|------------------------|--------------|
| | | | Reading | FS | | | |
| 11650.00 | H | Average | 40.49 | 20.06 | 20.43 | 54.00 | -13.51 |
| 11650.00 | H | Peak | 53.00 | 32.57 | 20.43 | 74.00 | -21.00 |

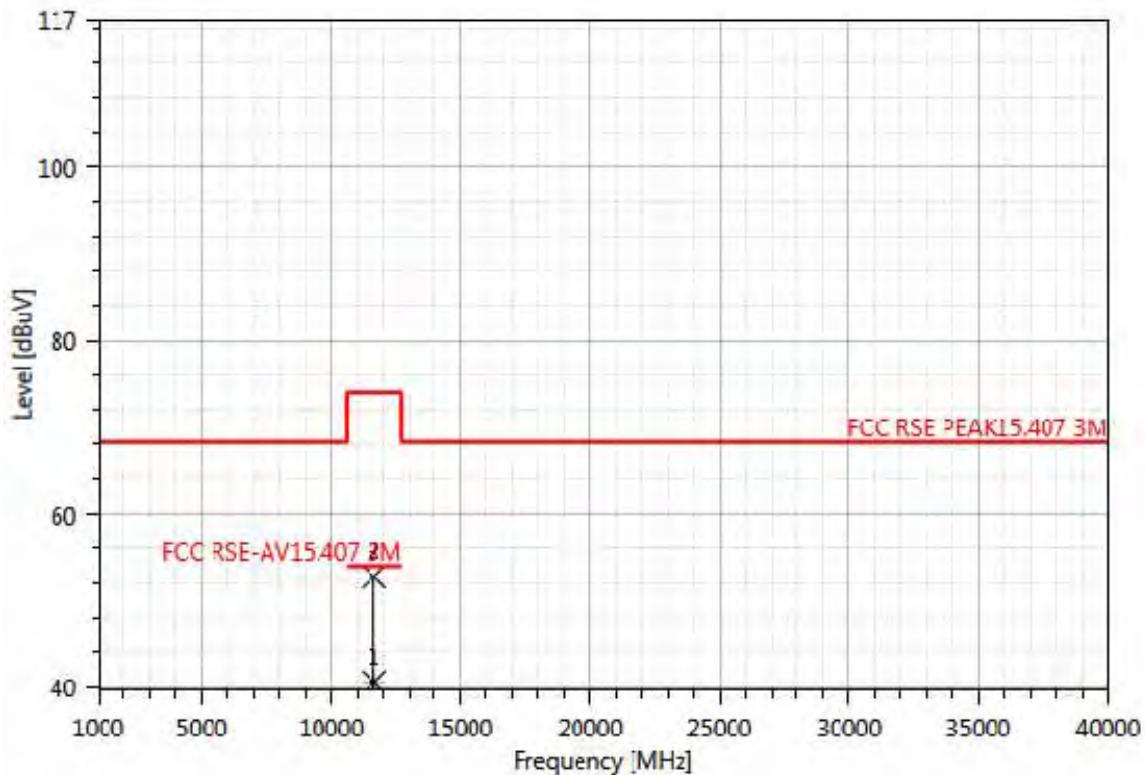
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Operation Mode : 802.11n20B4
Fundamental Frequency : 5825 MHz
Operation Band : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual | Spectrum | Factor dB | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------------------|-------------------------------|--------------------|--------------|------------------------|--------------|
| | | | Reading Level dB μ V/m | FS dB μ V/m | | | |
| 11650.00 | H | Average | 40.56 | 20.13 | 20.43 | 54.00 | -13.44 |
| 11650.00 | H | Peak | 52.76 | 32.33 | 20.43 | 74.00 | -21.24 |

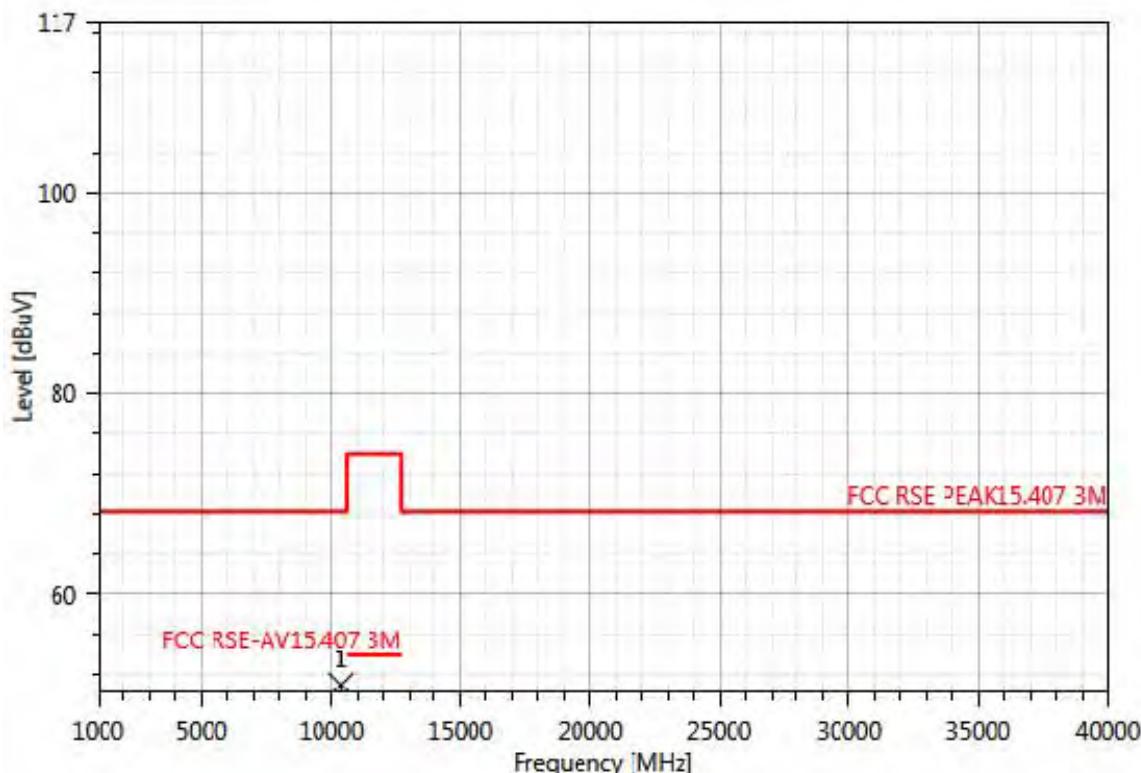
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode : 802.11n40B1 Test Date : 08/17/2016
Fundamental Frequency : 5190 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL



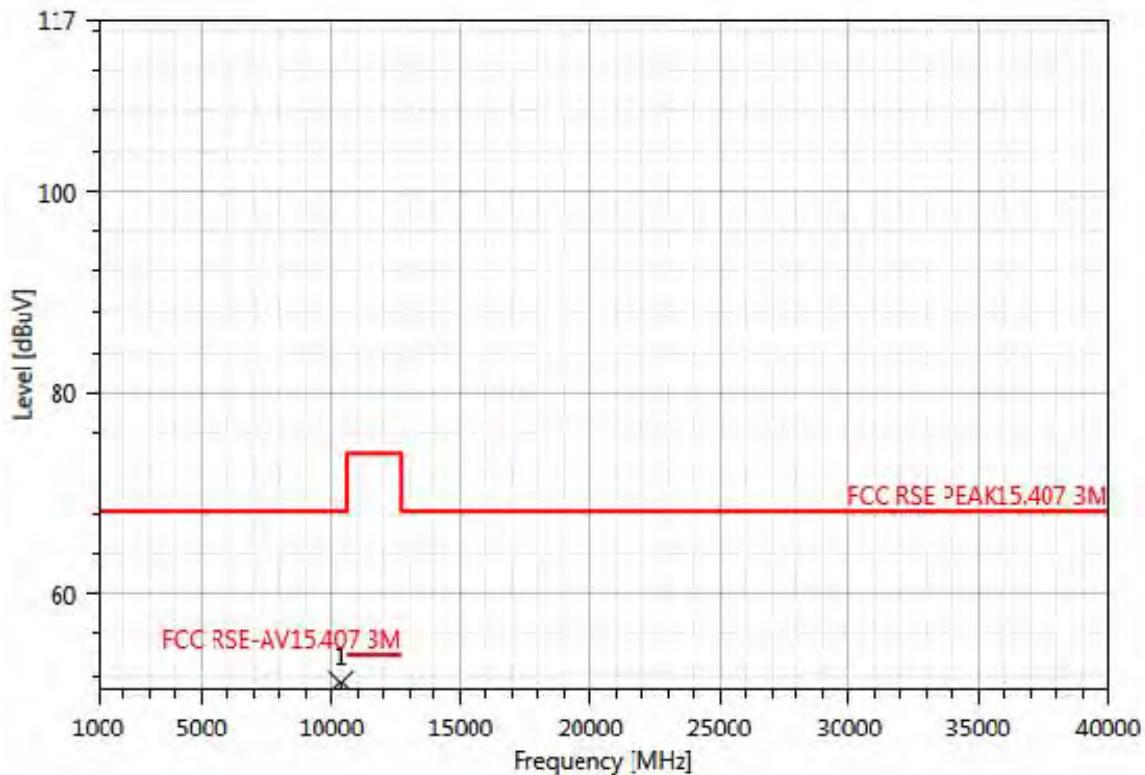
| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------|----------------|--------|-------|--------|
| | | | | | | @ 3m | |
| 10380.00 | H | Peak | 51.05 | 32.92 | 18.12 | 68.30 | -17.25 |

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Operation Mode : 802.11n40B1 Test Date : 08/17/2016
Fundamental Frequency : 5190 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL



| Freq. | Note | Decetor | Actual | Spectrum | Factor | Limit | Margin |
|----------|---------|---------|---------|----------|--------|-------|--------|
| MHz | F/H/E/S | Mode | Reading | FS | | @3m | |
| 10380.00 | H | Peak | 51.28 | 33.16 | 18.12 | 68.30 | -17.02 |

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

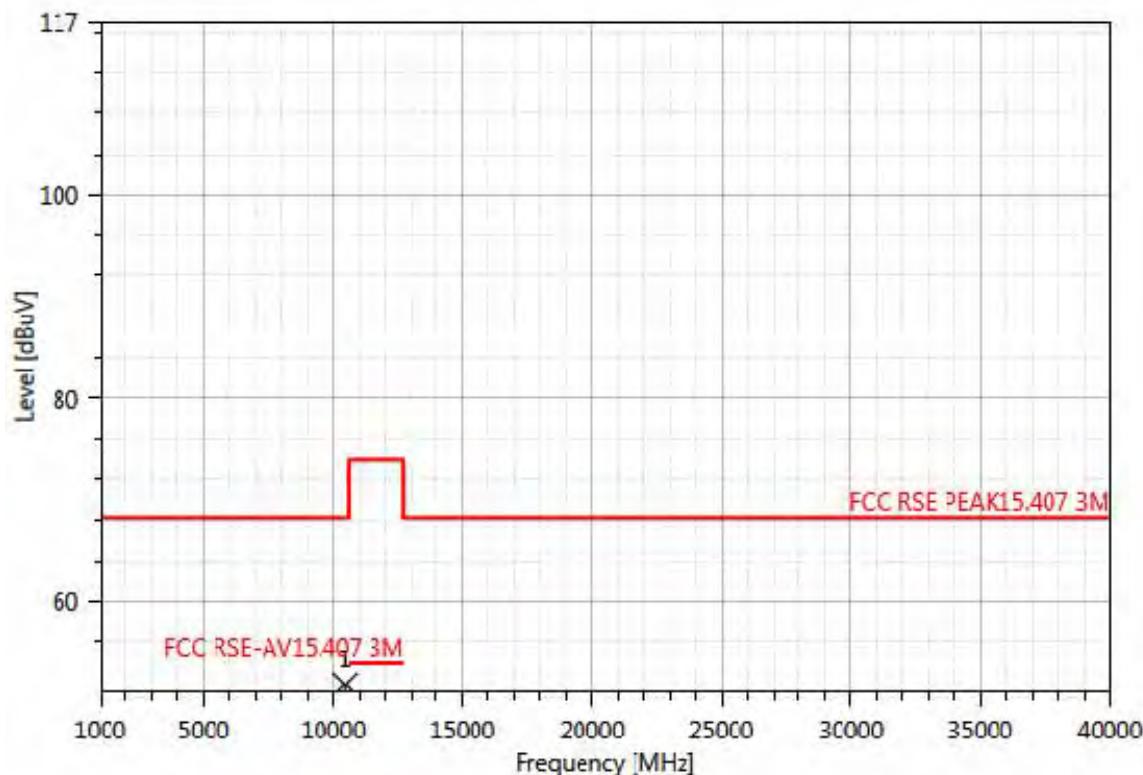
f (886-2) 2298-0488

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Member of SGS Group

Operation Mode : 802.11n40B1
Fundamental Frequency : 5230 MHz
Operation Band : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : VERTICAL



| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading | Spectrum FS | Factor | Limit @3m | Margin |
|--------------|-----------------|-----------------|-------------------|----------------|--------|--------------|--------|
| | | QP/AV/PK | dB μ V/m | dBuV/m | dB | dBuV/m | dB |
| 10460.00 | H | Peak | 51.89 | 33.35 | 18.54 | 68.30 | -16.41 |

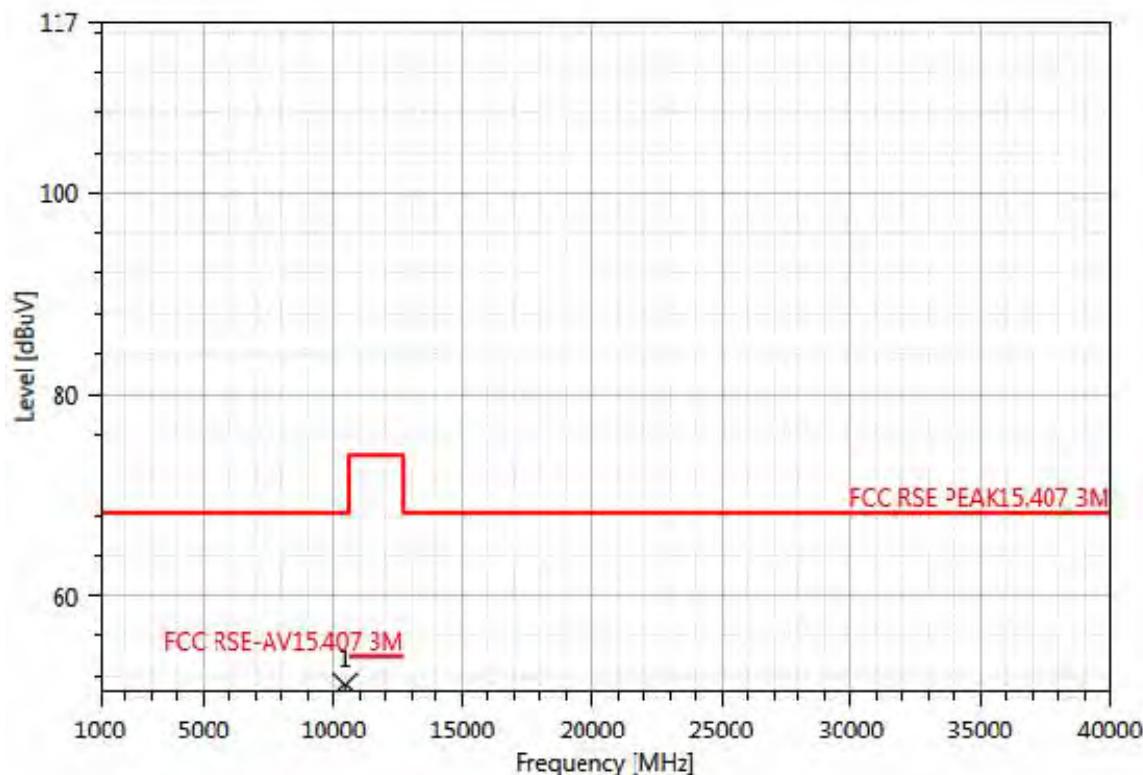
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Operation Mode : 802.11n40B1
Fundamental Frequency : 5230 MHz
Operation Band : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading | Spectrum FS | Factor | Limit @3m | Margin |
|--------------|-----------------|-----------------|-------------------|----------------|--------|--------------|--------|
| | | QP/AV/PK | dB μ V/m | dBuV/m | dB | dBuV/m | dB |
| 10460.00 | H | Peak | 51.23 | 32.69 | 18.54 | 68.30 | -17.07 |

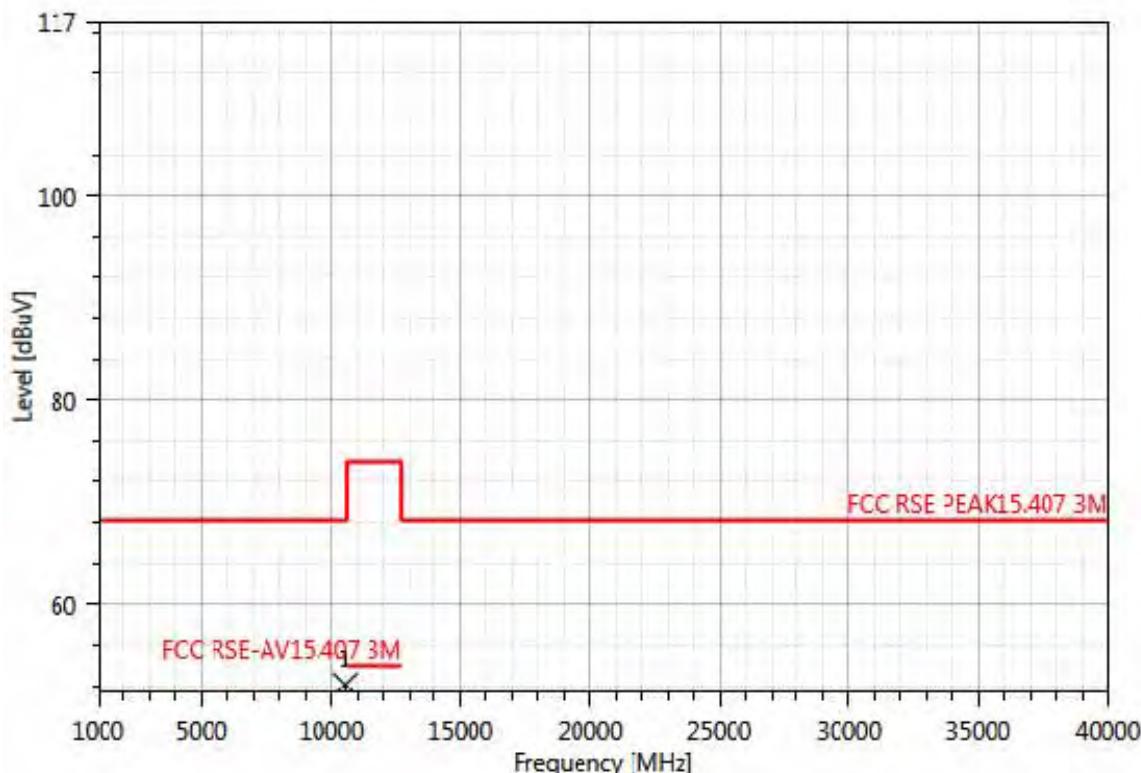
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Mode : 802.11n40B2 Test Date : 08/17/2016
Fundamental Frequency : 5270 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL



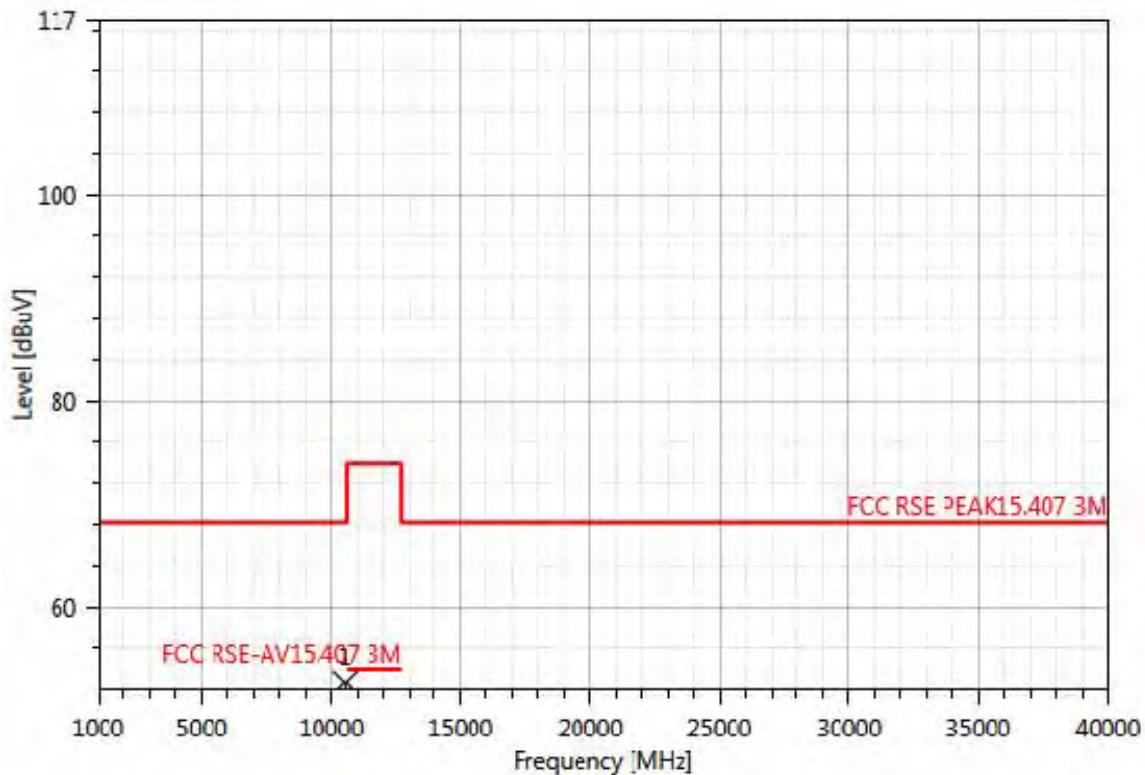
| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------|----------------|--------------|-------|--------|
| | | | Peak | dB μ V/m | dB μ V/m | dB | dBuV/m |
| 10540.00 | H | QP/AV/PK | 52.18 | 33.01 | 19.17 | 68.30 | -16.12 |

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Operation Mode : 802.11n40B2 Test Date : 08/17/2016
Fundamental Frequency : 5270 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL



| Freq. | Note | Decetor | Actual | Spectrum | Factor | Limit | Margin |
|----------|---------|---------|---------|----------|--------|-------|--------|
| MHz | F/H/E/S | Mode | Reading | FS | | @3m | |
| 10540.00 | H | Peak | 52.69 | 33.52 | 19.17 | 68.30 | -15.61 |

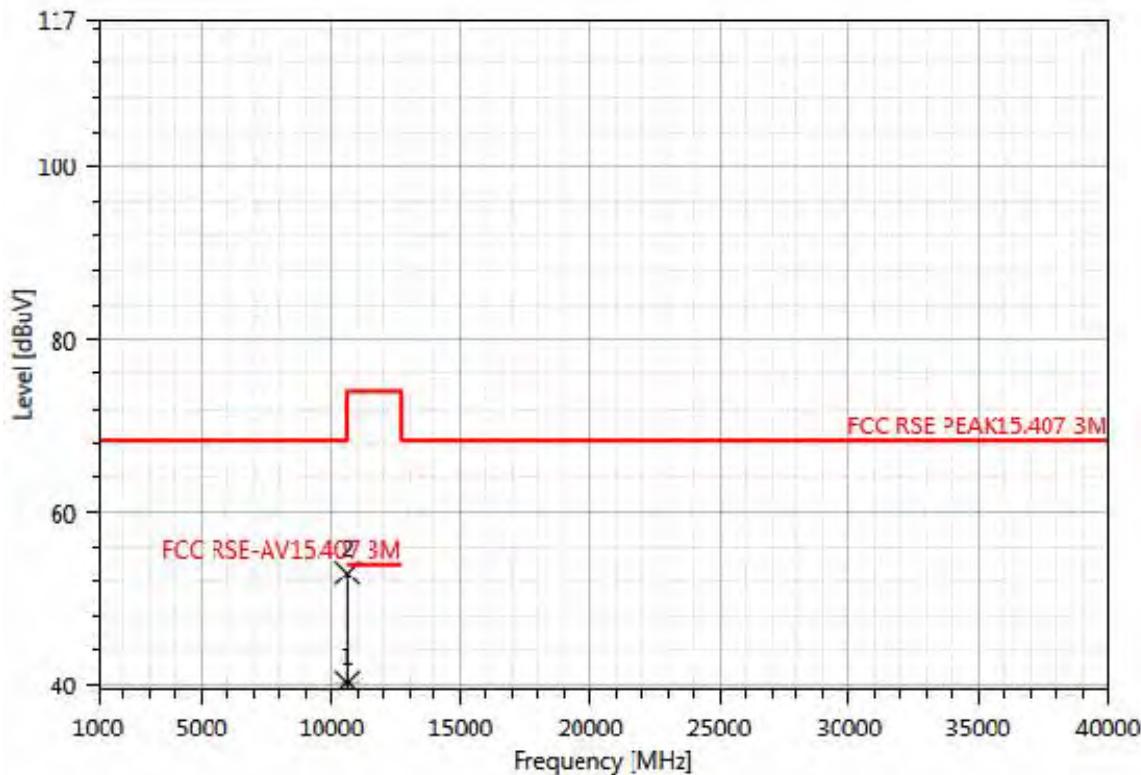
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SGS Taiwan Ltd. | No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路134號

Operation Mode : 802.11n40B2 Test Date : 08/17/2016
Fundamental Frequency : 5310 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH HIGH Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL



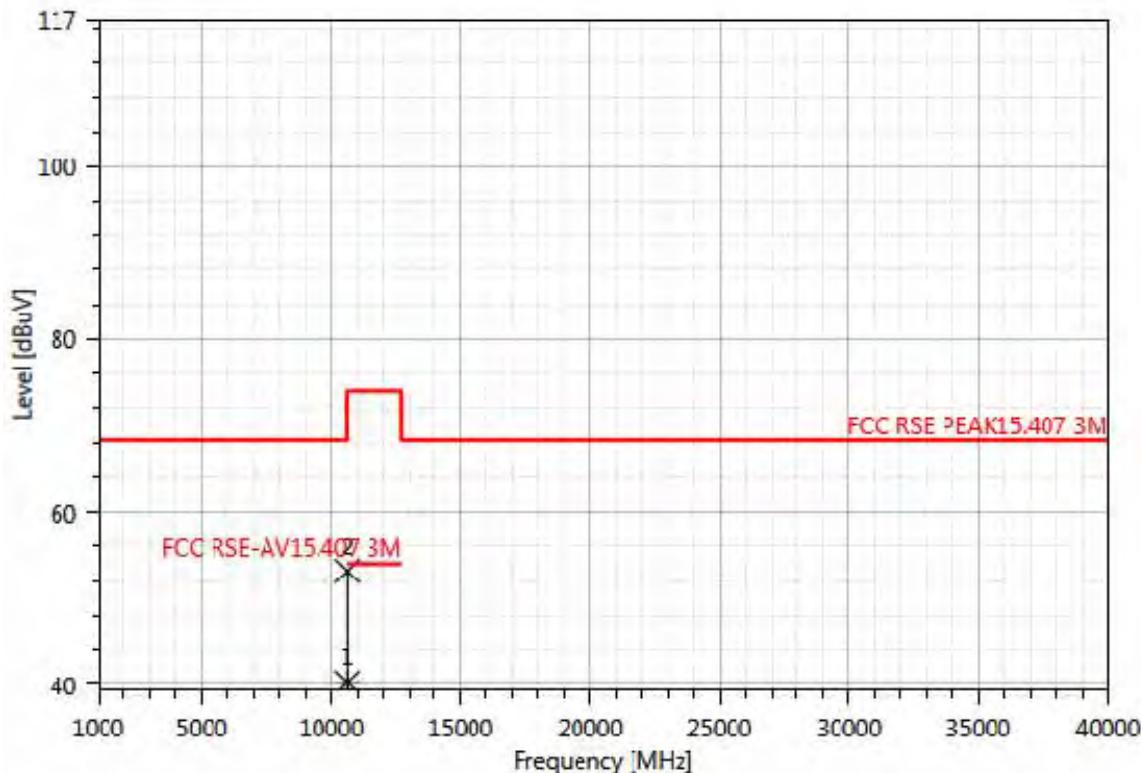
| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level dB μ V/m | Spectrum | | Factor dB | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------|---|----------|--------------------|--------------|------------------------|--------------|
| | | | | QP/AV/PK | FS dB μ V/m | | | |
| 10620.00 | H | Average | 40.34 | | 21.23 | 19.11 | 54.00 | -13.66 |
| 10620.00 | H | Peak | 52.97 | | 33.86 | 19.11 | 74.00 | -21.03 |

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Operation Mode : 802.11n40B2 Test Date : 08/17/2016
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Tx CH HIGH Test Engineer : Kane
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL



| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level dB μ V/m | Spectrum | | Factor dB | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------|---|----------|--------------------|--------------|------------------------|--------------|
| | | | | QP/AV/PK | FS dB μ V/m | | | |
| 10620.00 | H | Average | 40.27 | | 21.16 | 19.11 | 54.00 | -13.73 |
| 10620.00 | H | Peak | 53.17 | | 34.07 | 19.11 | 74.00 | -20.83 |

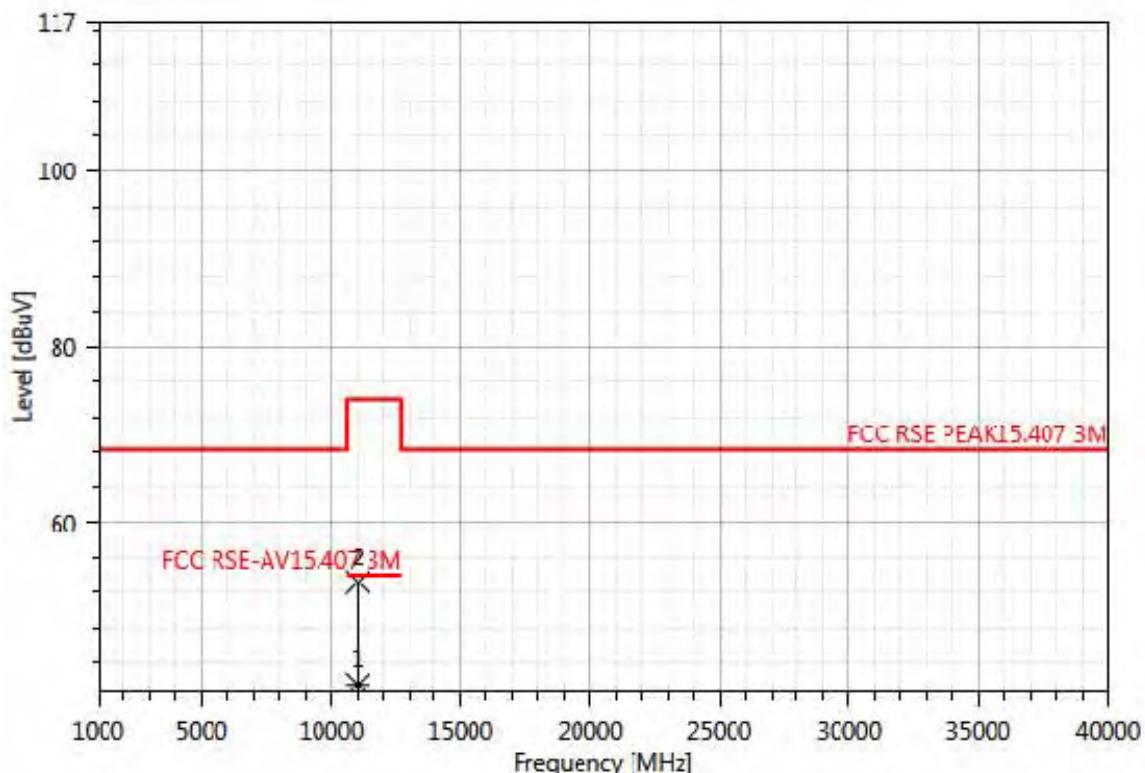
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Mode : 802.11n40B3 Test Date : 08/17/2016
Fundamental Frequency : 5510 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL



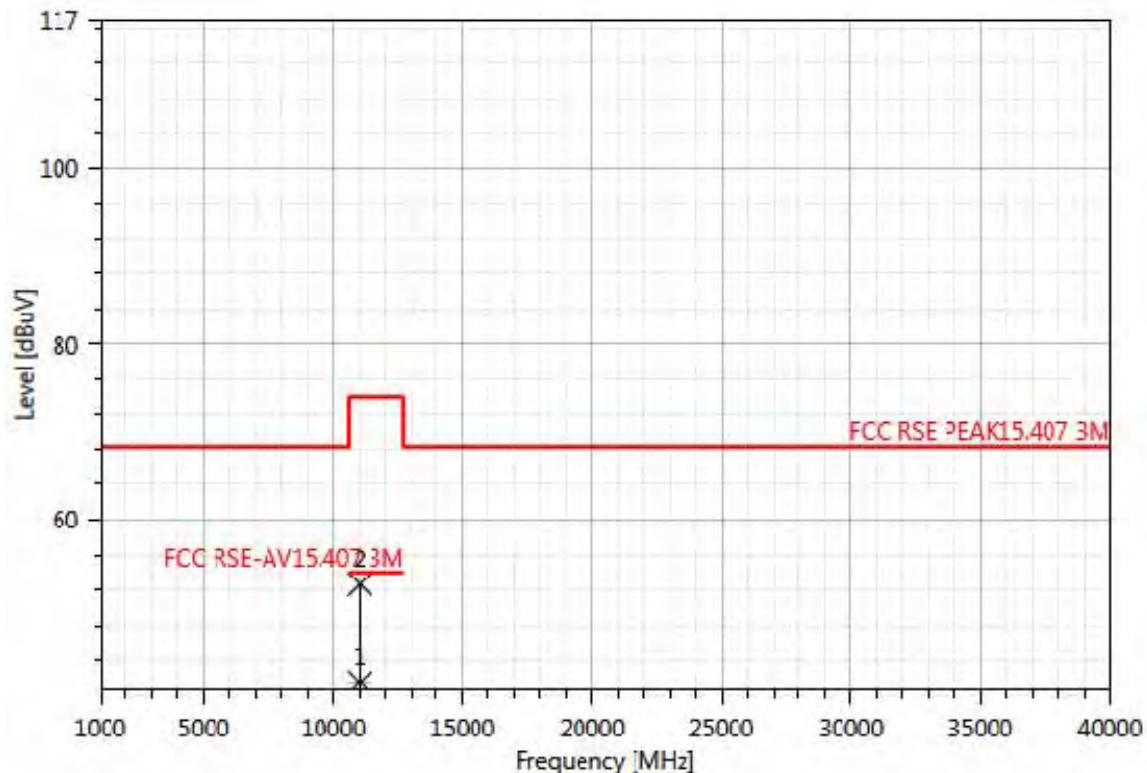
| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading dB μ V/m | Spectrum FS dB μ V/m | Factor dB | Limit @ 3m dB μ V/m | Margin dB |
|--------------|-----------------|-----------------|-----------------------------------|--------------------------------|--------------|-------------------------------|--------------|
| | | | | | | dB μ V/m | dB |
| 11020.00 | H | Average | 41.52 | 21.36 | 20.16 | 54.00 | -12.48 |
| 11020.00 | H | Peak | 53.18 | 33.02 | 20.16 | 74.00 | -20.82 |

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Operation Mode : 802.11n40B3 Test Date : 08/17/2016
Fundamental Frequency : 5510 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL



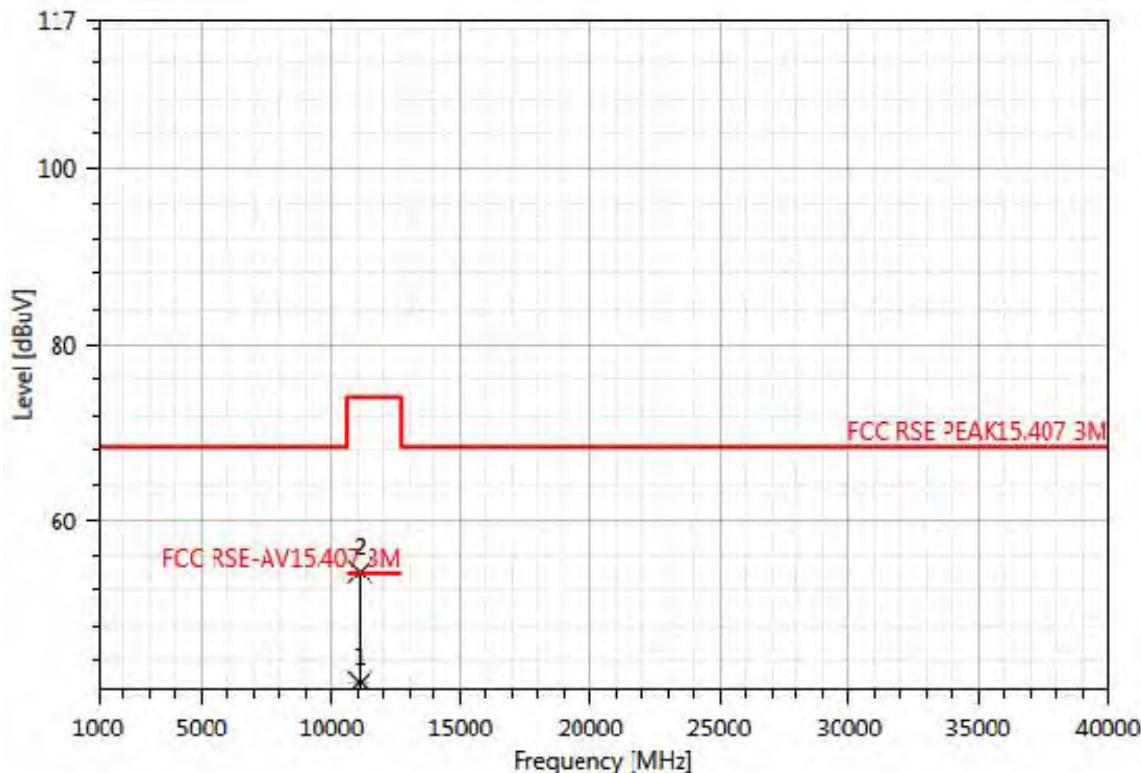
| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | Spectrum | Factor | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------|---------|----------|--------|------------------------|--------------|
| | | | Reading | FS | | | |
| 11020.00 | H | Average | 41.45 | 21.29 | 20.16 | 54.00 | -12.55 |
| 11020.00 | H | Peak | 52.66 | 32.50 | 20.16 | 74.00 | -21.34 |

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Operation Mode : 802.11n40B3 Test Date : 08/17/2016
Fundamental Frequency : 5550 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH MID Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL



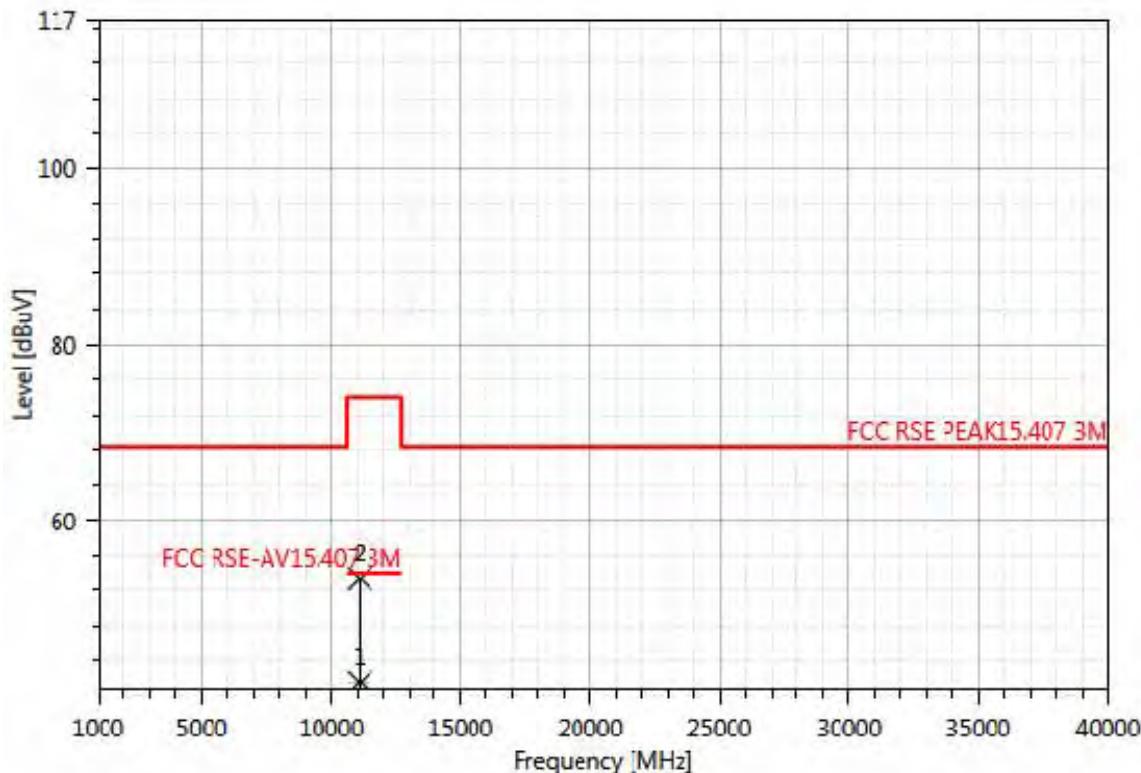
| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | Spectrum | Factor | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------|---------|----------|--------|------------------------|--------------|
| | | | Reading | FS | | | |
| 11100.00 | H | Average | 41.48 | 21.16 | 20.32 | 54.00 | -12.52 |
| 11100.00 | H | Peak | 54.08 | 33.76 | 20.32 | 74.00 | -19.92 |

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Operation Mode : 802.11n40B3 Test Date : 08/17/2016
Fundamental Frequency : 5550 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH MID Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL



| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | Spectrum | Factor | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------|--------------|--------------|--------|------------------------|--------------|
| | | | Reading | FS | | | |
| | | QP/AV/PK | dB μ V/m | dB μ V/m | dB | | |
| 11100.00 | H | Average | 41.48 | 21.16 | 20.32 | 54.00 | -12.52 |
| 11100.00 | H | Peak | 53.33 | 33.01 | 20.32 | 74.00 | -20.67 |

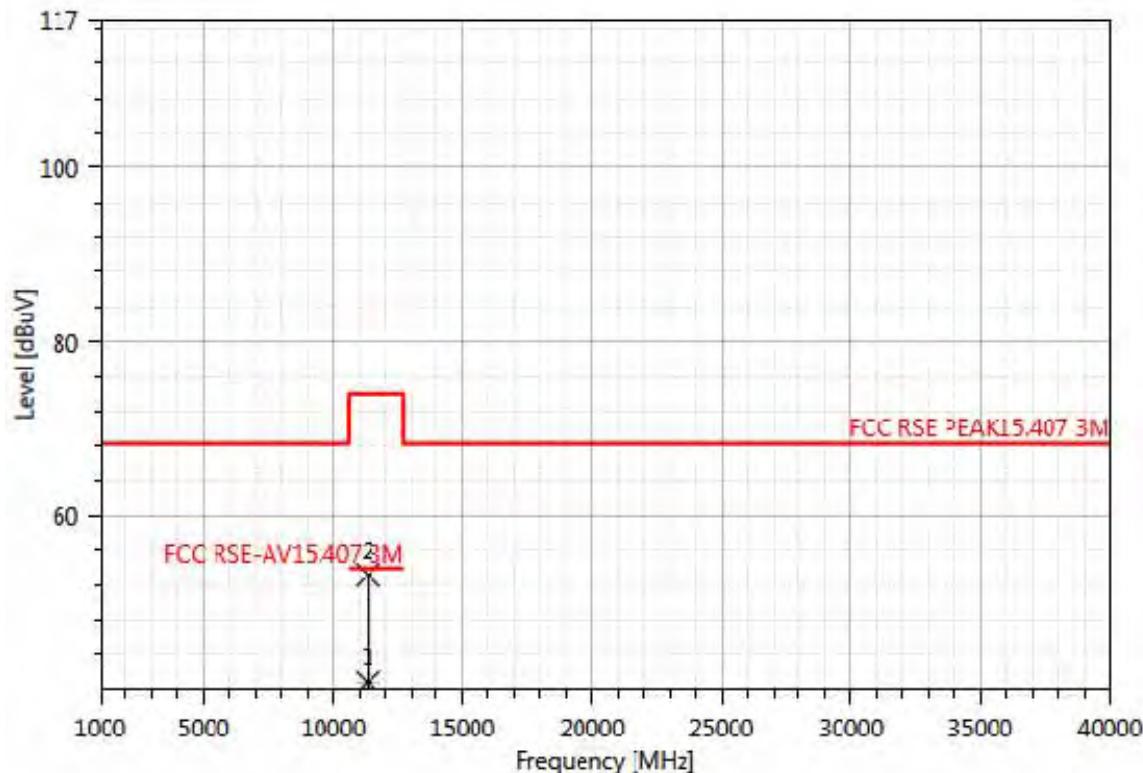
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Operation Mode : 802.11n40B3
Fundamental Frequency : 5670 MHz
Operation Band : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : VERTICAL



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual Reading Level dB μ V/m | Spectrum | | Factor dB | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------------------|---|----------|--------------------|--------------|------------------------|--------------|
| | | | | Mode | FS dB μ V/m | | | |
| 11340.00 | H | Average | 40.84 | 20.46 | 20.38 | 20.38 | 54.00 | -13.16 |
| 11340.00 | H | Peak | 53.19 | 32.81 | 20.38 | 20.38 | 74.00 | -20.81 |

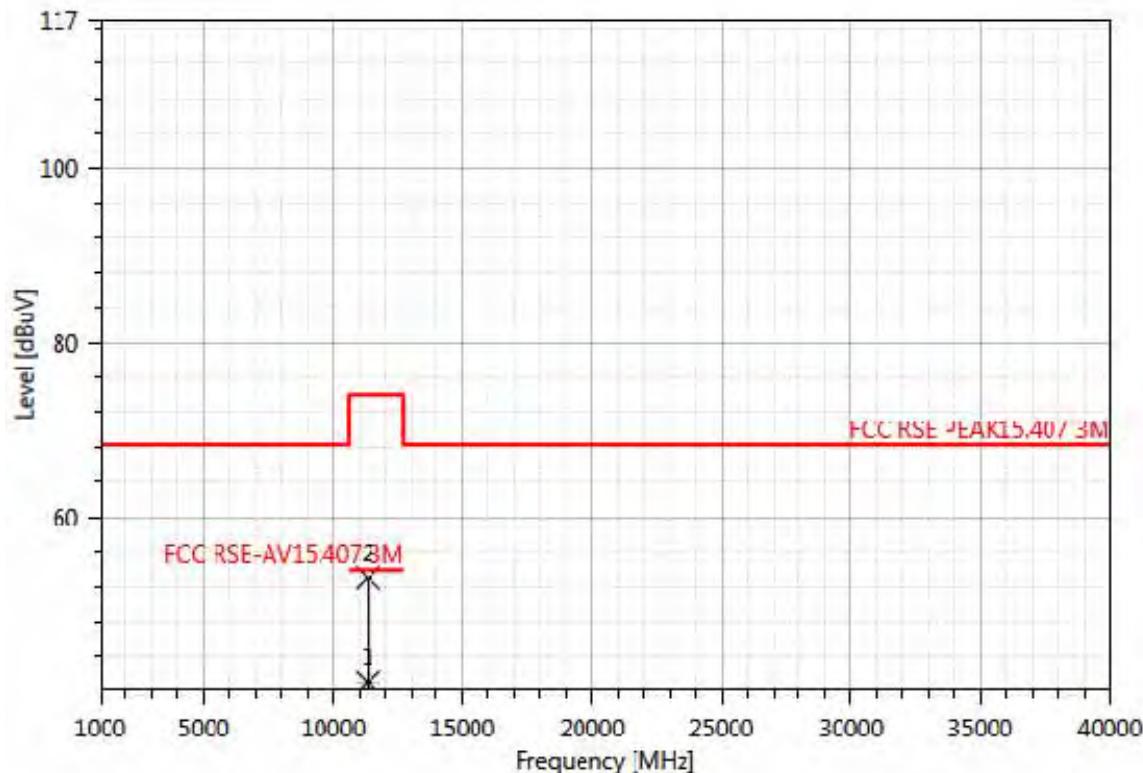
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Operation Mode : 802.11n40B3
Fundamental Frequency : 5670 MHz
Operation Band : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual Reading Level dB μ V/m | Spectrum | | Factor dB | Limit @ 3m dB μ V/m | Margin dB |
|--------------|-----------------|-----------------------------|---|----------|--------------------|--------------|-------------------------------|--------------|
| | | | | Mode | FS dB μ V/m | | | |
| 11340.00 | H | Average | 41.06 | 20.68 | 20.38 | 54.00 | 54.00 | -12.94 |
| 11340.00 | H | Peak | 53.05 | 32.67 | 20.38 | 74.00 | 74.00 | -20.95 |

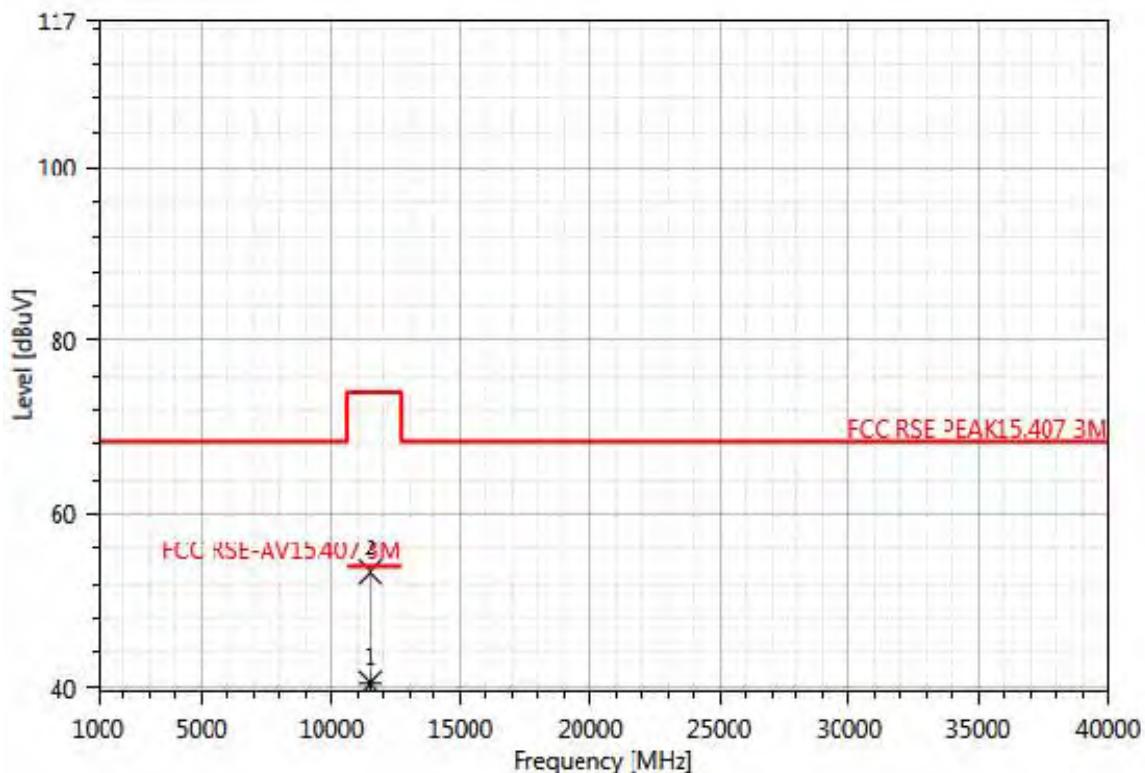
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode : 802.11n40B4 Test Date : 08/17/2016
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Tx CH LOW Test Engineer : Kane
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL



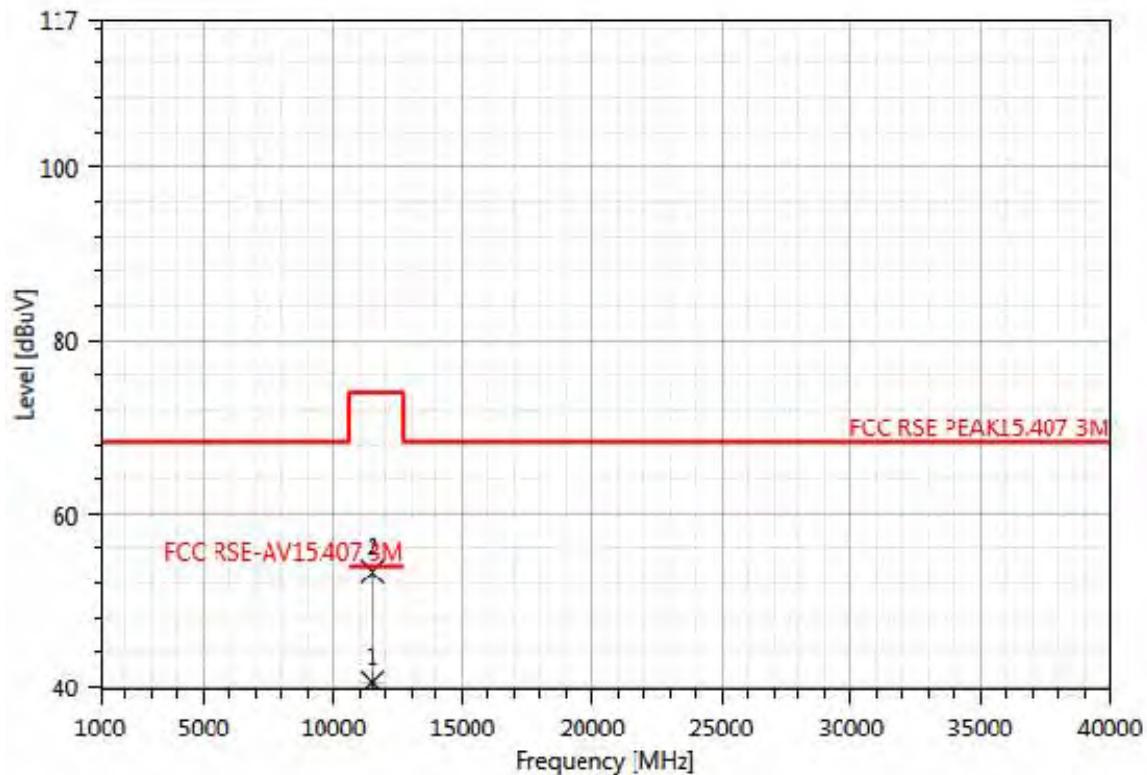
| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading | Spectrum FS | Factor | Limit @ 3m | Margin |
|--------------|-----------------|-----------------|-------------------|----------------|--------|---------------|--------|
| | | | | | | dBuV/m | dB |
| 11510.00 | H | Average | 40.53 | 20.14 | 20.39 | 54.00 | -13.47 |
| 11510.00 | H | Peak | 53.36 | 32.98 | 20.39 | 74.00 | -20.64 |

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Operation Mode : 802.11n40B4 Test Date : 08/17/2016
Fundamental Frequency : 5755 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL



| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | Spectrum | Factor | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------|---------|----------|--------|------------------------|--------------|
| | | | Reading | FS | | | |
| 11510.00 | H | Average | 40.58 | 20.19 | 20.39 | 54.00 | -13.42 |
| 11510.00 | H | Peak | 53.35 | 32.96 | 20.39 | 74.00 | -20.65 |

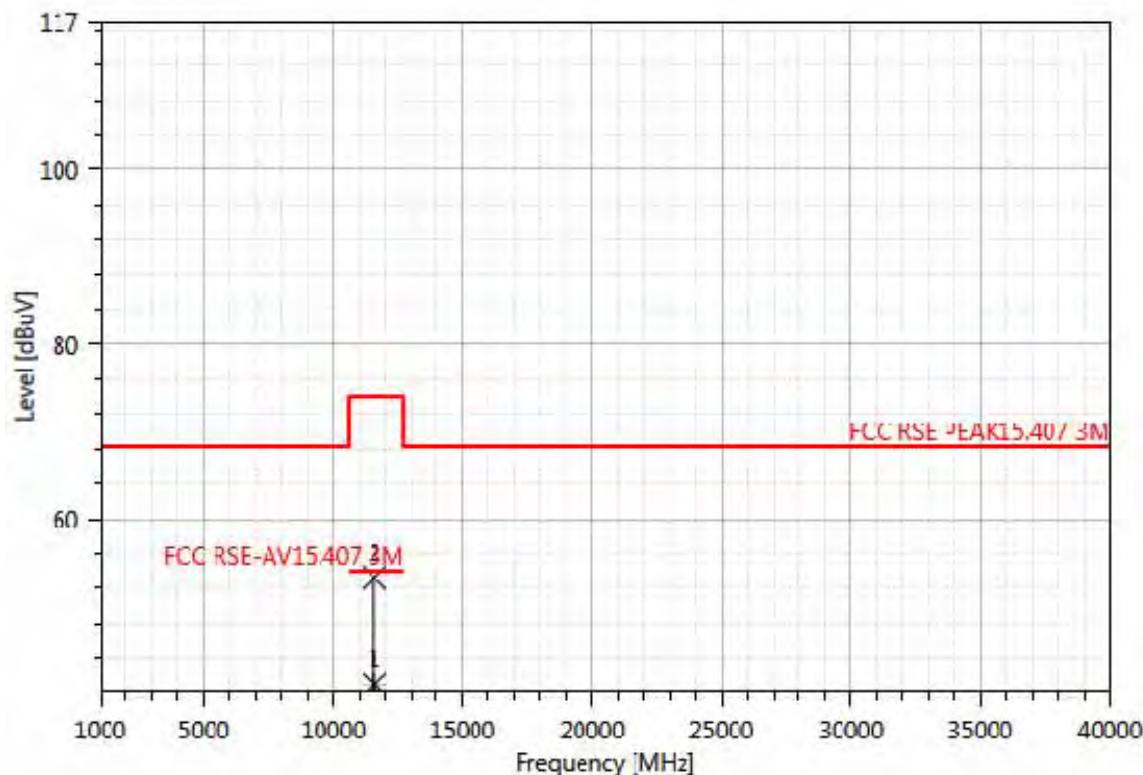
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Operation Mode : 802.11n40B4
Fundamental Frequency : 5795 MHz
Operation Band : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : VERTICAL



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual Reading Level dB μ V/m | Spectrum | | Factor dB | Limit @ 3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------------------|---|----------|--------------------|--------------|-------------------------|--------------|
| | | | | Mode | FS dB μ V/m | | | |
| 11590.00 | H | Average | 41.00 | | 20.57 | 20.43 | 54.00 | -13.00 |
| 11590.00 | H | Peak | 53.23 | | 32.80 | 20.43 | 74.00 | -20.77 |

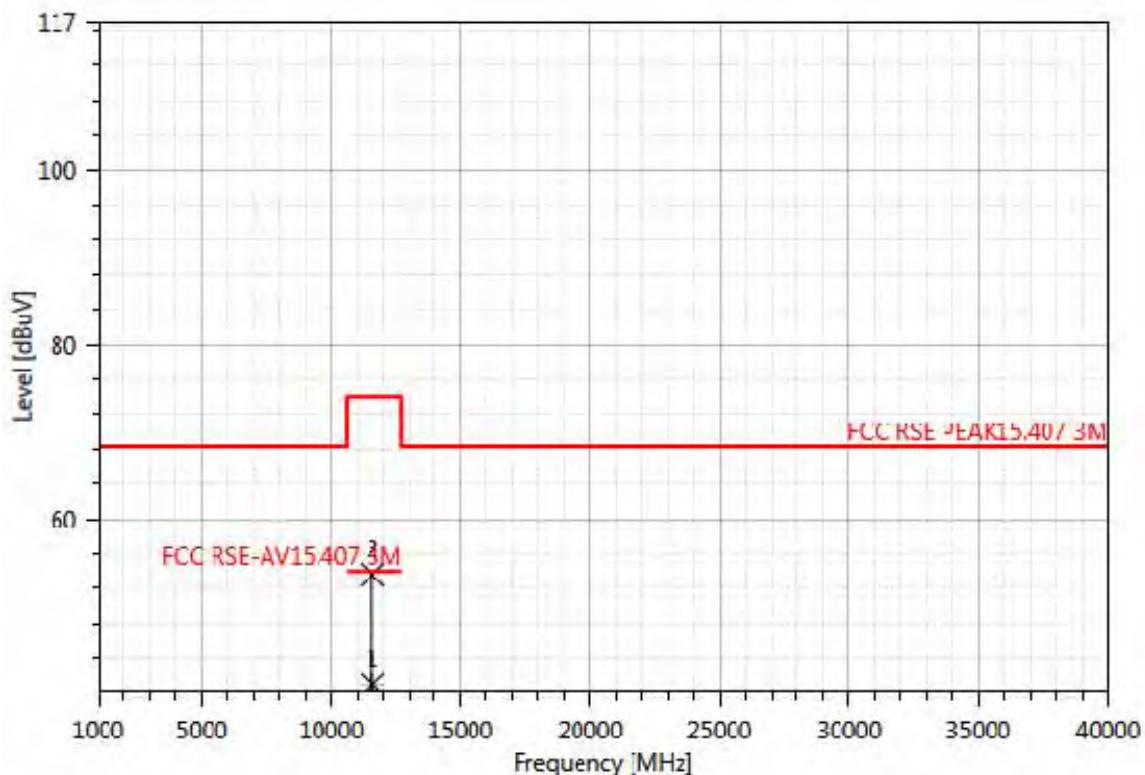
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Operation Mode : 802.11n40B4
Fundamental Frequency : 5795 MHz
Operation Band : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual Reading Level dB μ V/m | Spectrum | | Factor dB | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|-----------------------------|---|----------|--------------------|--------------|------------------------------|--------------|
| | | | | Mode | FS dB μ V/m | | | |
| 11590.00 | H | Average | 41.04 | 20.61 | 20.43 | 54.00 | 54.00 | -12.96 |
| 11590.00 | H | Peak | 53.63 | 33.20 | 20.43 | 74.00 | 74.00 | -20.37 |

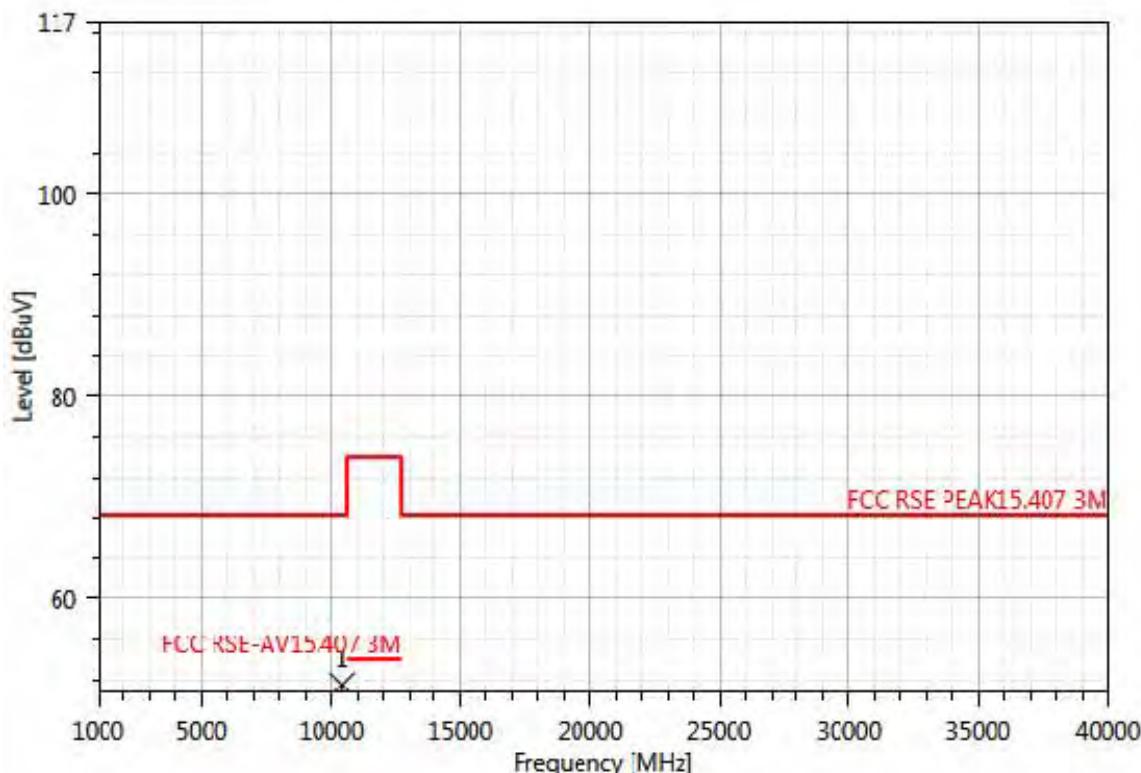
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode : 802.11ac80B1 Test Date : 08/17/2016
Fundamental Frequency : 5210 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL



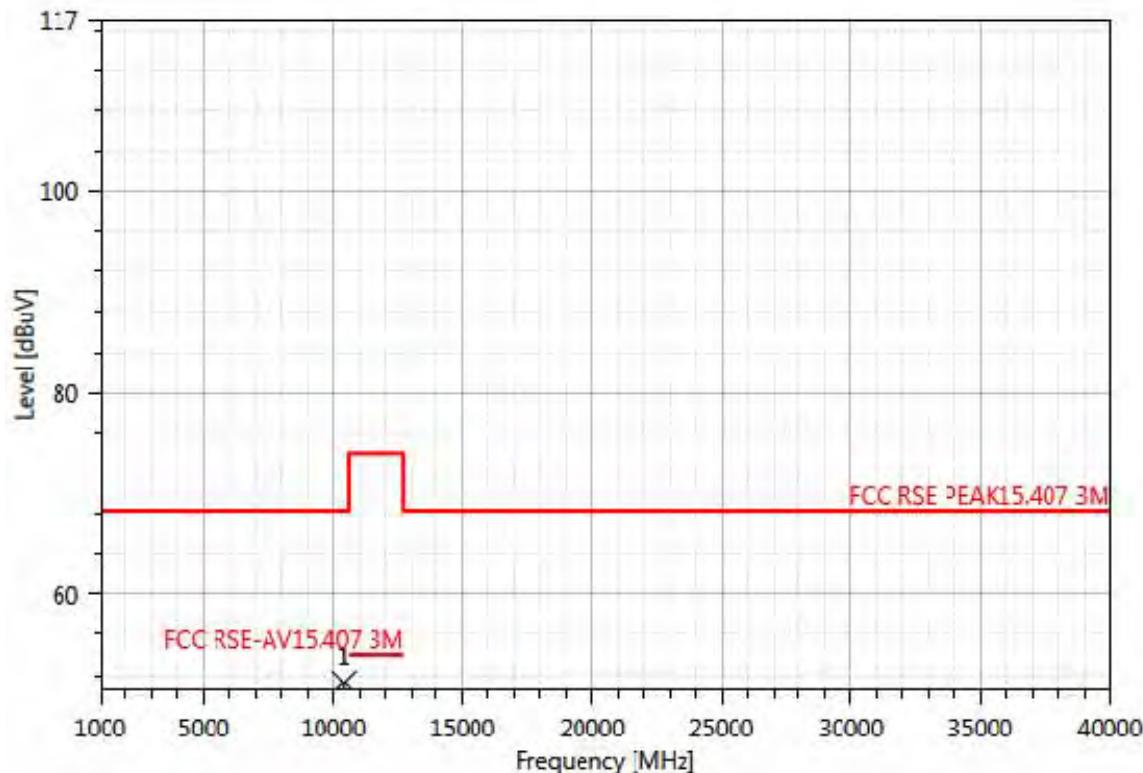
| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------|----------------|--------------|-------|--------|
| | | | Peak | dB μ V/m | dB μ V/m | dB | dBuV/m |
| 10420.00 | H | QP/AV/PK | 51.52 | 32.80 | 18.71 | 68.30 | -16.78 |

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Operation Mode : 802.11ac80B1 Test Date : 08/17/2016
Fundamental Frequency : 5210 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL



| Freq. | Note | Decetor | Actual | Spectrum | Factor | Limit | Margin |
|----------|---------|----------|--------------|--------------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading | FS | | @3m | |
| | | QP/AV/PK | dB μ V/m | dB μ V/m | dB | dBuV/m | dB |
| 10420.00 | H | Peak | 51.27 | 32.56 | 18.71 | 68.30 | -17.03 |

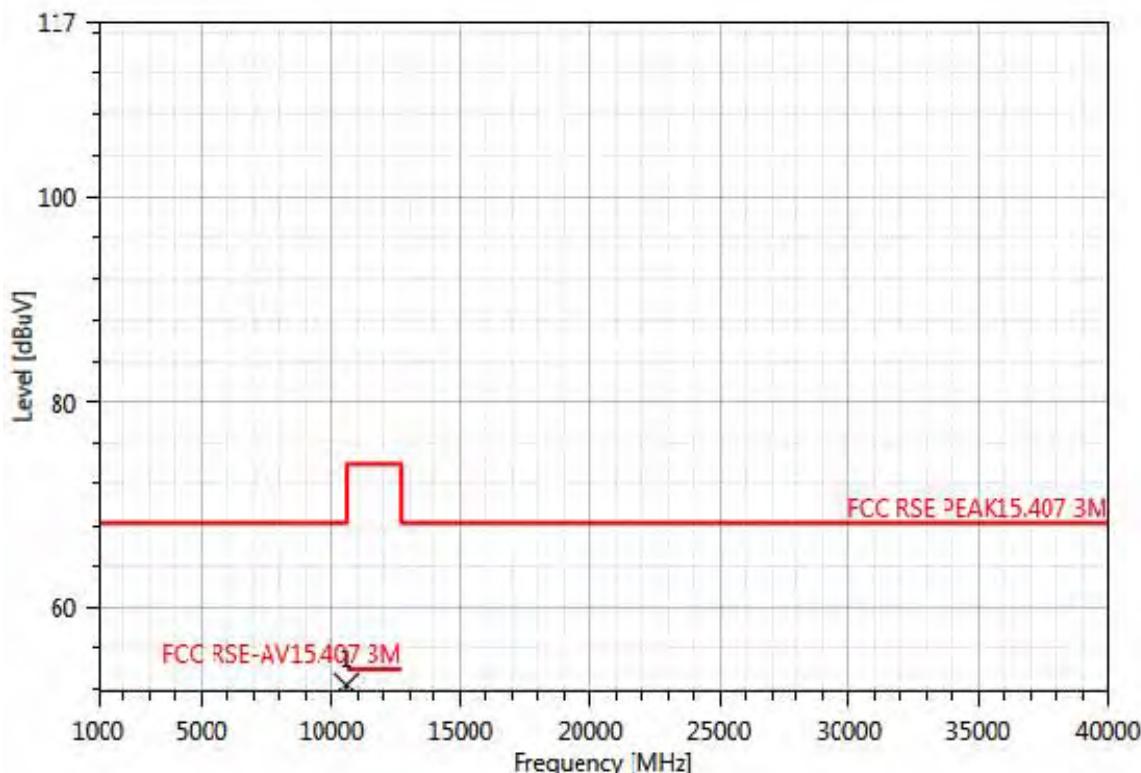
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Mode : 802.11ac80B2 Test Date : 08/17/2016
Fundamental Frequency : 5290 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH HIGH Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL



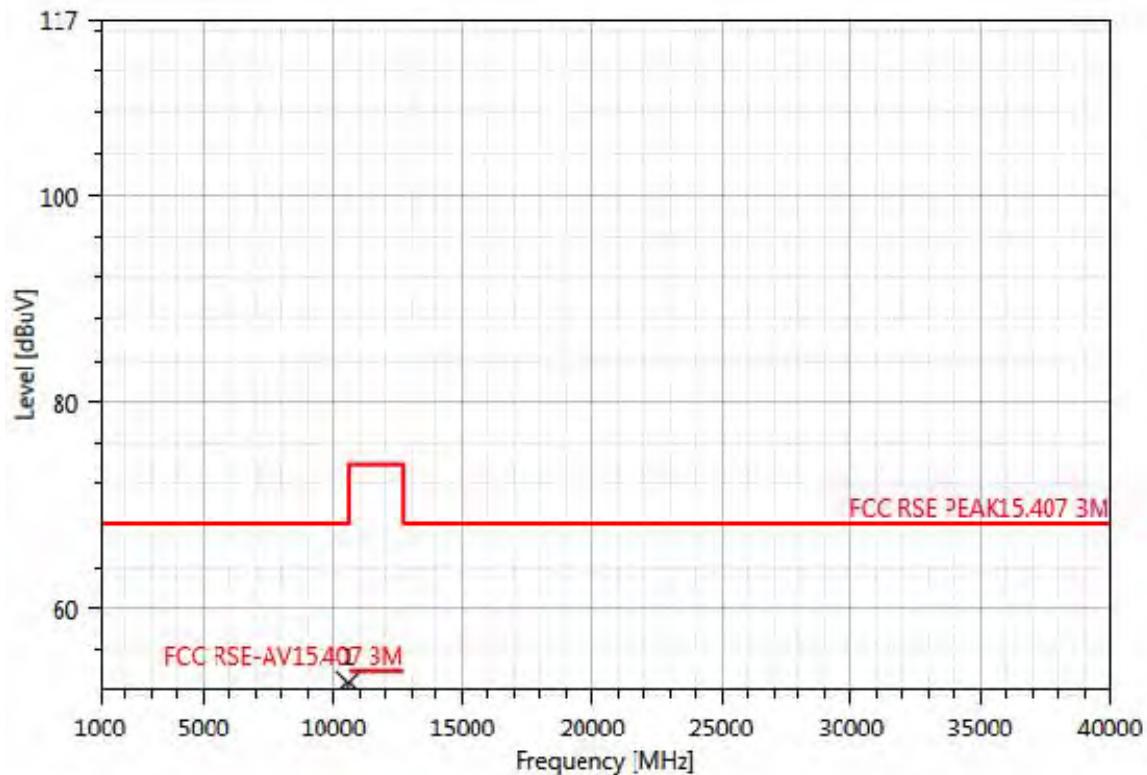
| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------|----------------|--------|-------|--------|
| | | | | | | @ 3m | |
| 10580.00 | H | Peak | 52.50 | 33.62 | 18.88 | 68.30 | -15.80 |

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Operation Mode : 802.11ac80B2 Test Date : 08/17/2016
Fundamental Frequency : 5290 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH HIGH Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL



| Freq. | Note | Decetor | Actual | Spectrum | Factor | Limit | Margin |
|----------|---------|---------|---------|----------|--------|-------|--------|
| MHz | F/H/E/S | Mode | Reading | FS | | @3m | |
| 10580.00 | H | Peak | 52.83 | 33.96 | 18.88 | 68.30 | -15.47 |

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

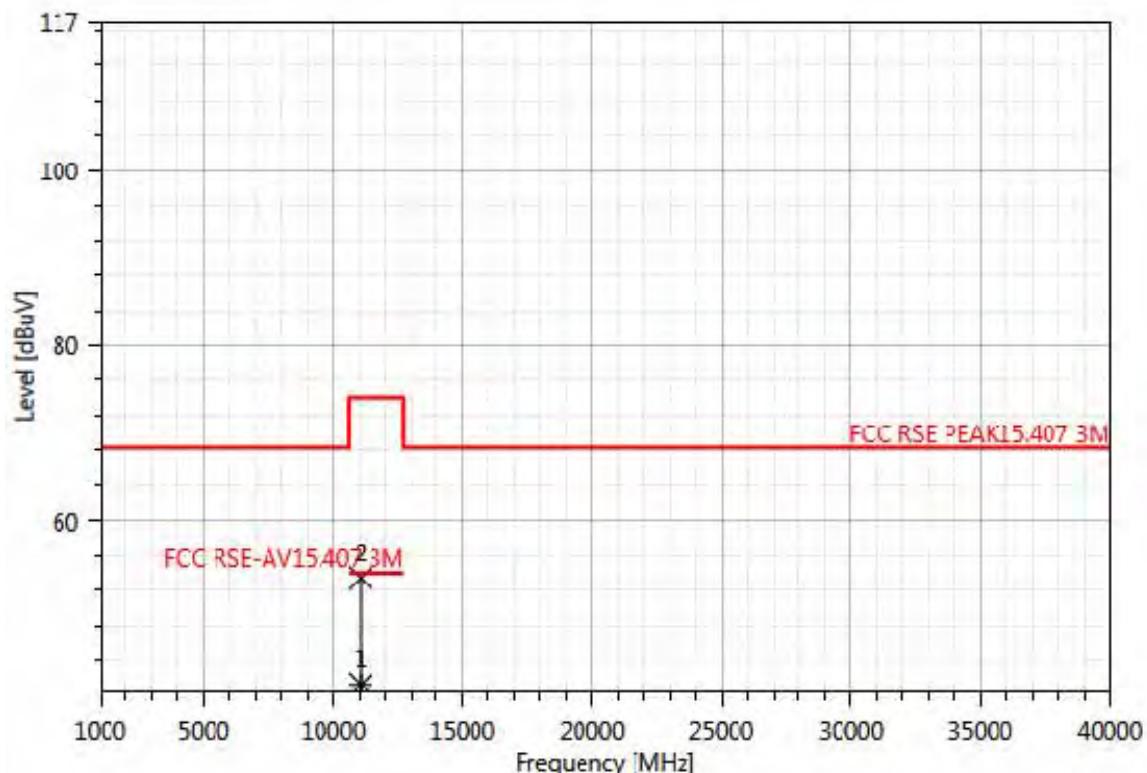
f (886-2) 2298-0488

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

Operation Mode : 802.11ac80B3 Test Date : 08/17/2016
Fundamental Frequency : 5530 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL



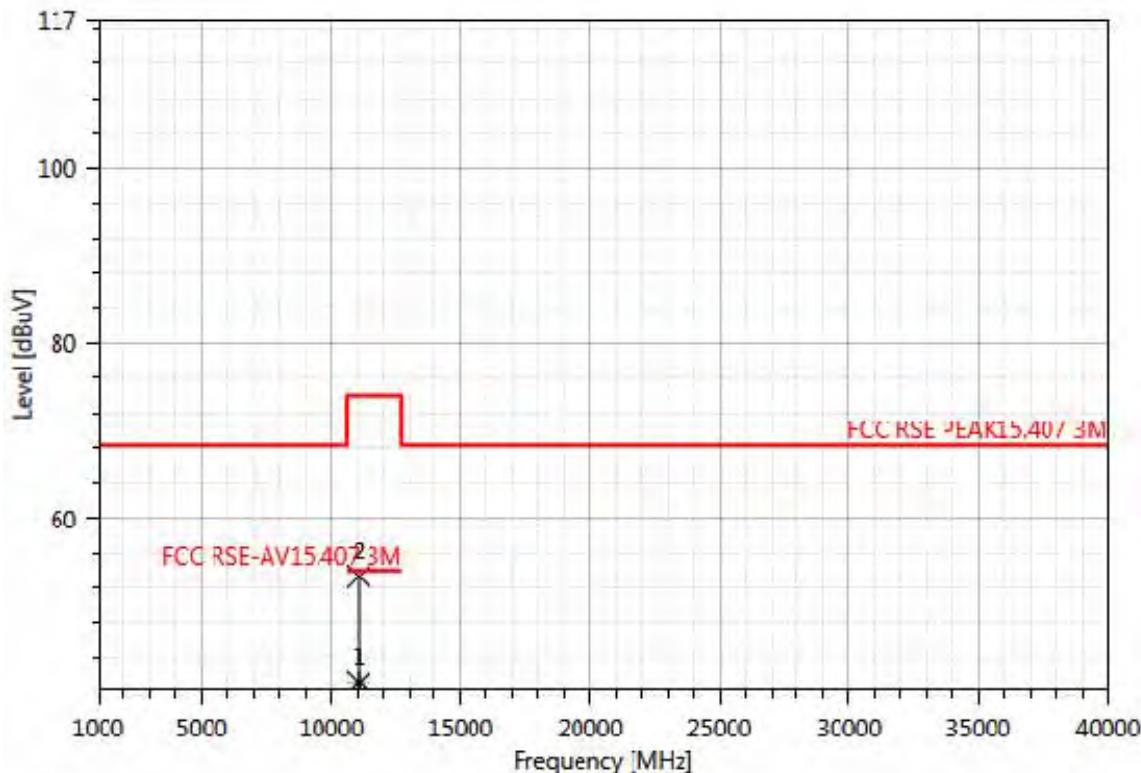
| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------|----------------|--------|-------|--------|
| | | | | | | @ 3m | dB |
| 11060.00 | H | Average | 41.22 | 20.96 | 20.26 | 54.00 | -12.78 |
| 11060.00 | H | Peak | 53.41 | 33.15 | 20.26 | 74.00 | -20.59 |

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Operation Mode : 802.11ac80B3 Test Date : 08/17/2016
 Fundamental Frequency : 5530 MHz Temp. / Humi. : 21 deg_C / 62 RH
 Operation Band : Tx CH LOW Test Engineer : Kane
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL



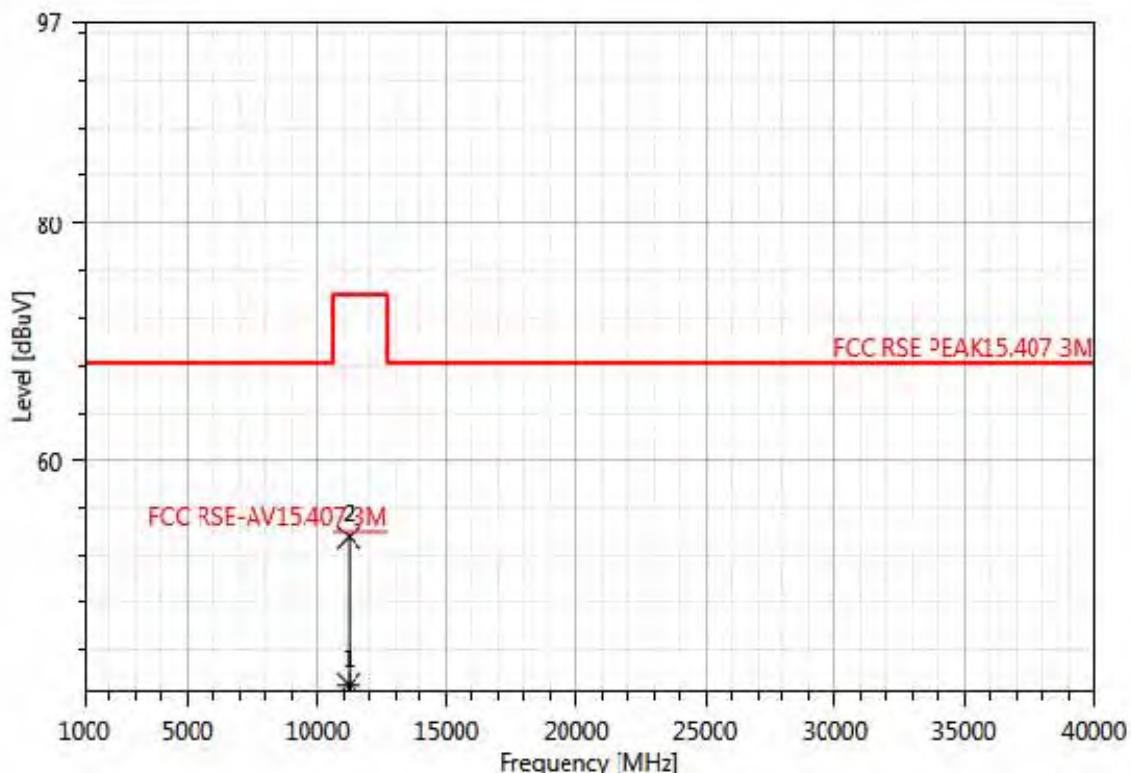
| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level dB μ V/m | Spectrum | | Factor dB | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|-----------------|---|----------|--------------------|--------------|------------------------------|--------------|
| | | | | QP/AV/PK | FS dB μ V/m | | | |
| 11060.00 | H | Average | 41.17 | 20.91 | 20.26 | 54.00 | 54.00 | -12.83 |
| 11060.00 | H | Peak | 53.30 | 33.04 | 20.26 | 74.00 | 74.00 | -20.70 |

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Operation Mode : 802.11ac80B3 Test Date : 08/17/2016
Fundamental Frequency : 5610 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH MID Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL



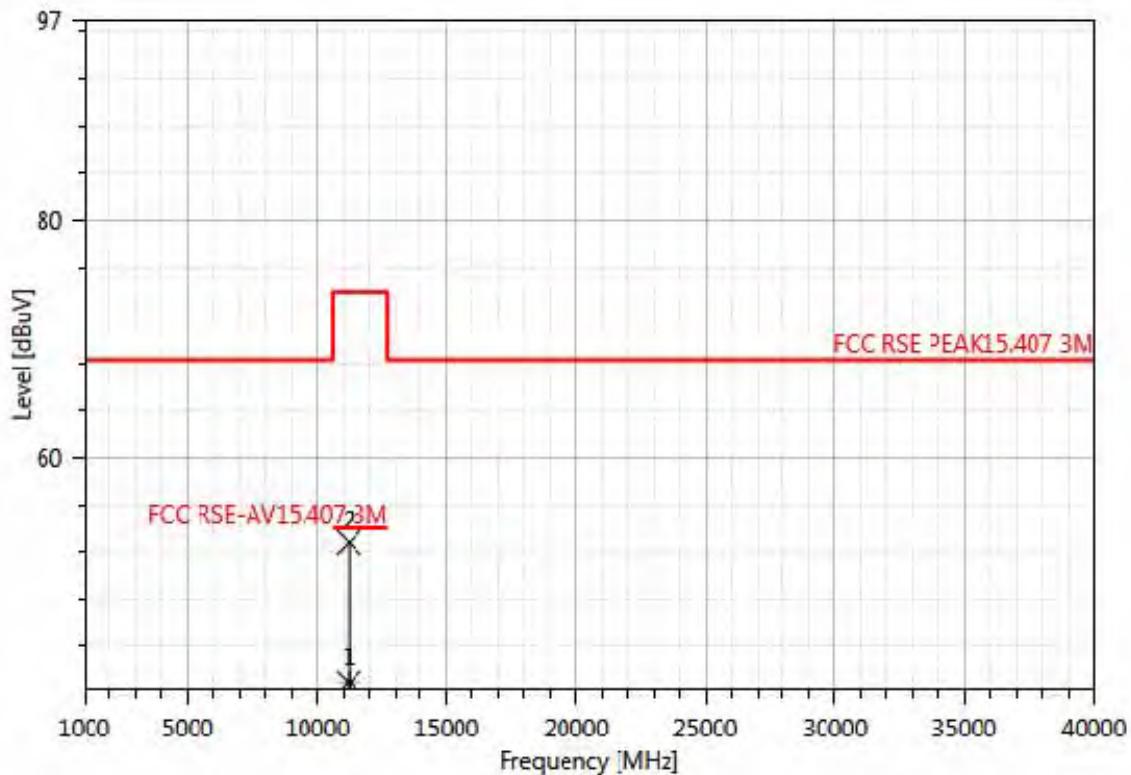
| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------|----------------|--------|-------|--------|
| | | | | | | @ 3m | dB |
| 11220.00 | H | Average | 41.11 | 20.63 | 20.48 | 54.00 | -12.89 |
| 11220.00 | H | Peak | 53.52 | 33.04 | 20.48 | 74.00 | -20.48 |

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Operation Mode : 802.11ac80B3 Test Date : 08/17/2016
Fundamental Frequency : 5610 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH MID Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL



| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | Spectrum | Factor | Limit @3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------|---------|----------|--------|------------------------|--------------|
| | | | Reading | FS | | | |
| 11220.00 | H | Average | 41.00 | 20.52 | 20.48 | 54.00 | -13.00 |
| 11220.00 | H | Peak | 52.78 | 32.30 | 20.48 | 74.00 | -21.22 |

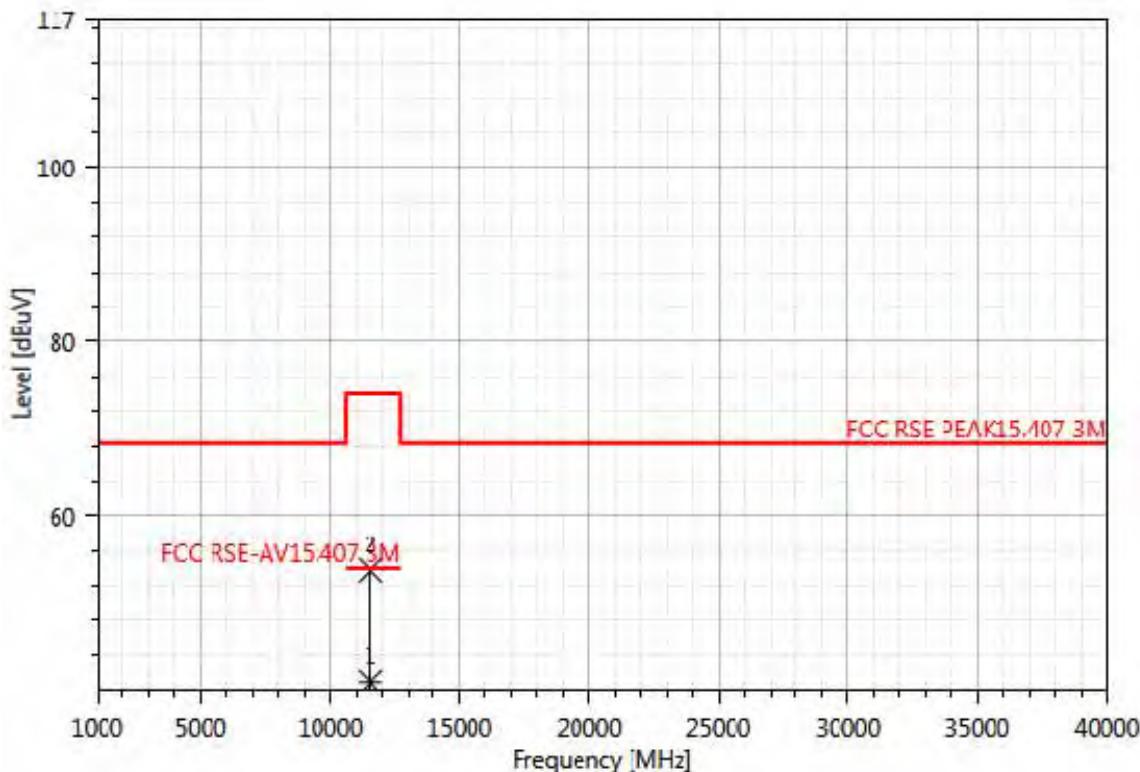
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Mode : 802.11ac80B4 Test Date : 08/17/2016
Fundamental Frequency : 5775 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH HIGH Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL



| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | Spectrum | Factor | Limit @ 3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------|---------|----------|--------|-------------------------|--------------|
| | | | Reading | FS | | | |
| 11550.00 | H | Average | 40.94 | 20.42 | 20.52 | 54.00 | -13.06 |
| 11550.00 | H | Peak | 53.79 | 33.27 | 20.52 | 74.00 | -20.21 |

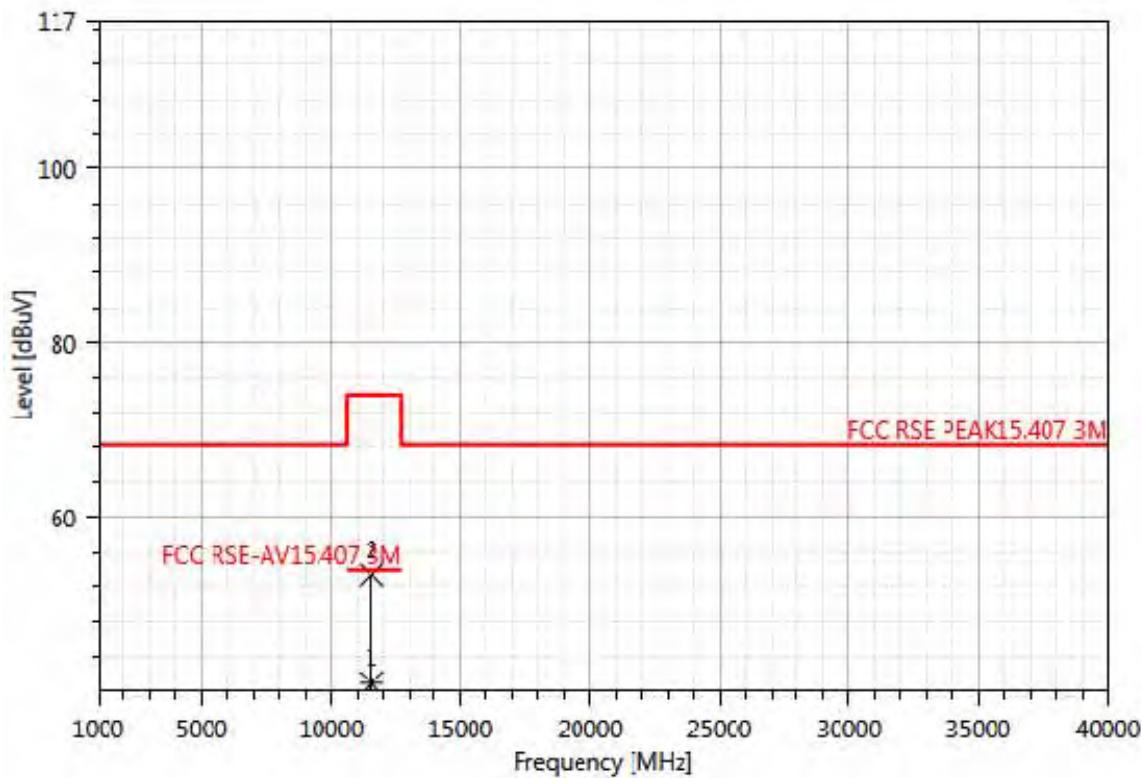
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Operation Mode : 802.11ac80B4
Fundamental Frequency : 5775 MHz
Operation Band : Tx CH HIGH
EUT Pol. : H Plane

Test Date : 08/17/2016
Temp. / Humi. : 21 deg_C / 62 RH
Test Engineer : Kane
Measurement Antenna Pol. : HORIZONTAL



| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | Spectrum | Factor | Limit @ 3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------|--------------|--------------|--------|-------------------------|--------------|
| | | | Reading | FS | | | |
| | | QP/AV/PK | dB μ V/m | dB μ V/m | | | |
| 11550.00 | H | Average | 40.89 | 20.37 | 20.52 | 54.00 | -13.11 |
| 11550.00 | H | Peak | 53.34 | 32.82 | 20.52 | 74.00 | -20.66 |

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Band edge falling to restricted band**802.11a mode**

Operation Mode : 802.11aB1 Test Date : 08/10/2016
Fundamental Frequency : 5180 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual | Spectrum | Factor | Limit | Margin |
|--------------|-----------------|-----------------------------|---------|----------|--------|--------|--------|
| | | | Reading | FS | @ 3m | dBuV/m | dB |
| 5150.00 | E | Average | 43.40 | 37.52 | 5.88 | 54.00 | -10.60 |
| 5150.00 | E | Peak | 56.20 | 50.31 | 5.88 | 74.00 | -17.80 |

Operation Mode : 802.11aB1 Test Date : 08/10/2016
Fundamental Frequency : 5180 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual | Spectrum | Factor | Limit | Margin |
|--------------|-----------------|-----------------------------|---------|----------|--------|--------|--------|
| | | | Reading | FS | @ 3m | dBuV/m | dB |
| 5150.00 | E | Average | 43.46 | 37.58 | 5.88 | 54.00 | -10.54 |
| 5150.00 | E | Peak | 57.52 | 51.64 | 5.88 | 74.00 | -16.48 |

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Operation Mode : 802.11aB2 Test Date : 08/10/2016
Fundamental Frequency : 5320 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------------|----------------|--------|-------|--------|
| | | | | | | @ 3m | dBuV/m |
| 5350.00 | E | Average | 42.89 | 36.74 | 6.15 | 54.00 | -11.11 |
| 5350.00 | E | Peak | 56.59 | 50.44 | 6.15 | 74.00 | -17.41 |

Operation Mode : 802.11aB2 Test Date : 08/10/2016
Fundamental Frequency : 5320 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------------|----------------|--------|-------|--------|
| | | | | | | @ 3m | dBuV/m |
| 5350.00 | E | Average | 43.26 | 37.11 | 6.15 | 54.00 | -10.74 |
| 5350.00 | E | Peak | 58.81 | 52.66 | 6.15 | 74.00 | -15.19 |

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Operation Mode : 802.11aB3 Test Date : 08/10/2016
Fundamental Frequency : 5500 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------------|----------------|--------|-------|--------|
| | | | | | | @ 3m | dBuV/m |
| 5460.00 | E | Average | 42.94 | 36.71 | 6.23 | 54.00 | -11.06 |
| 5460.00 | E | Peak | 55.65 | 49.41 | 6.23 | 74.00 | -18.35 |

Operation Mode : 802.11aB3 Test Date : 08/10/2016
Fundamental Frequency : 5500 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------------|----------------|--------|-------|--------|
| | | | | | | @ 3m | dBuV/m |
| 5460.00 | E | Average | 43.27 | 37.04 | 6.23 | 54.00 | -10.73 |
| 5460.00 | E | Peak | 56.27 | 50.03 | 6.23 | 74.00 | -17.73 |

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Operation Mode : 802.11aB3 Test Date : 08/10/2016
Fundamental Frequency : 5500 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------------|----------------|--------|-------|--------|
| | | | | | | @ 3m | dBrV/m |
| 5470.00 | E | Peak | 55.33 | 49.06 | 6.26 | 68.30 | -12.97 |

Operation Mode : 802.11aB3 Test Date : 08/10/2016
Fundamental Frequency : 5500 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------------|----------------|--------|-------|--------|
| | | | | | | @ 3m | dBrV/m |
| 5470.00 | E | Peak | 58.60 | 52.34 | 6.26 | 68.30 | -9.70 |

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Operation Mode : 802.11aB3 Test Date : 08/10/2016
Fundamental Frequency : 5700 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------------|----------------|--------|-------|--------|
| | | | | | | @ 3m | dBrV/m |
| 5725.00 | E | Peak | 55.66 | 49.07 | 6.59 | 68.30 | -12.64 |

Operation Mode : 802.11aB3 Test Date : 08/10/2016
Fundamental Frequency : 5700 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------------|----------------|--------|-------|--------|
| | | | | | | @ 3m | dBrV/m |
| 5725.00 | E | Peak | 63.84 | 57.25 | 6.59 | 68.30 | -4.46 |

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Operation Mode : 802.11aB4 Test Date : 08/10/2016
Fundamental Frequency : 5745 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum | | Factor | Limit @ 3m | Margin |
|--------------|-----------------|-----------------|-------------------------|----------|------|--------|---------------|--------|
| | | | | QP/AV/PK | FS | | | |
| 5650.00 | E | Peak | 55.87 | 49.39 | 6.48 | 68.23 | -12.36 | |
| 5700.00 | E | Peak | 56.06 | 49.39 | 6.68 | 105.23 | -49.17 | |
| 5720.00 | E | Peak | 58.03 | 51.43 | 6.60 | 110.83 | -52.80 | |
| 5725.00 | E | Peak | 66.22 | 59.63 | 6.59 | 122.23 | -56.01 | |

Operation Mode : 802.11aB4 Test Date : 08/10/2016
Fundamental Frequency : 5745 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum | | Factor | Limit @ 3m | Margin |
|--------------|-----------------|-----------------|-------------------------|----------|------|--------|---------------|--------|
| | | | | QP/AV/PK | FS | | | |
| 5650.00 | E | Peak | 55.93 | 49.45 | 6.48 | 68.23 | -12.30 | |
| 5700.00 | E | Peak | 55.70 | 49.02 | 6.68 | 105.23 | -49.53 | |
| 5720.00 | E | Peak | 60.79 | 54.19 | 6.60 | 110.83 | -50.04 | |
| 5725.00 | E | Peak | 65.60 | 59.01 | 6.59 | 122.23 | -56.63 | |

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Operation Mode : 802.11aB4 Test Date : 08/10/2016
Fundamental Frequency : 5825 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum | | Factor | Limit @ 3m | Margin |
|--------------|-----------------|-----------------|-------------------------|----------|------|--------|---------------|--------|
| | | | | QP/AV/PK | FS | | | |
| 5850.00 | E | Peak | 58.45 | 51.16 | 7.28 | 122.23 | -63.78 | |
| 5855.00 | E | Peak | 56.89 | 49.57 | 7.32 | 110.83 | -53.94 | |
| 5875.00 | E | Peak | 57.17 | 49.80 | 7.37 | 105.23 | -48.06 | |
| 5925.00 | E | Peak | 57.97 | 50.58 | 7.39 | 68.23 | -10.26 | |

Operation Mode : 802.11aB4 Test Date : 08/10/2016
Fundamental Frequency : 5825 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum | | Factor | Limit @ 3m | Margin |
|--------------|-----------------|-----------------|-------------------------|----------|------|--------|---------------|--------|
| | | | | QP/AV/PK | FS | | | |
| 5850.00 | E | Peak | 60.30 | 53.02 | 7.28 | 122.23 | -61.93 | |
| 5855.00 | E | Peak | 58.70 | 51.38 | 7.32 | 110.83 | -52.13 | |
| 5875.00 | E | Peak | 56.87 | 49.50 | 7.37 | 105.23 | -48.36 | |
| 5925.00 | E | Peak | 58.84 | 51.45 | 7.39 | 68.23 | -9.39 | |

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802.11n20 HT mode

Operation Mode : 802.11n20B1 Test Date : 08/10/2016
Fundamental Frequency : 5180 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | Spectrum | Factor dB | Limit @ 3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------|---------|----------|--------------|-------------------------|--------------|
| | | | Reading | FS | | | |
| 5150.00 | E | Average | 43.43 | 37.55 | 5.88 | 54.00 | -10.57 |
| 5150.00 | E | Peak | 59.57 | 53.69 | 5.88 | 74.00 | -14.43 |

Operation Mode : 802.11n20B1 Test Date : 08/10/2016
Fundamental Frequency : 5180 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | Spectrum | Factor dB | Limit @ 3m dBuV/m | Margin dB |
|--------------|-----------------|-----------------|---------|----------|--------------|-------------------------|--------------|
| | | | Reading | FS | | | |
| 5150.00 | E | Average | 43.81 | 37.93 | 5.88 | 54.00 | -10.19 |
| 5150.00 | E | Peak | 60.67 | 54.78 | 5.88 | 74.00 | -13.33 |

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Operation Mode : 802.11n20B2 Test Date : 08/10/2016
Fundamental Frequency : 5320 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------------|----------------|--------|-------|--------|
| | | | | | | @ 3m | dBuV/m |
| 5350.00 | E | Average | 43.43 | 37.28 | 6.15 | 54.00 | -10.57 |
| 5350.00 | E | Peak | 64.88 | 58.73 | 6.15 | 74.00 | -9.12 |

Operation Mode : 802.11n20B2 Test Date : 08/10/2016
Fundamental Frequency : 5320 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------------|----------------|--------|-------|--------|
| | | | | | | @ 3m | dBuV/m |
| 5350.00 | E | Average | 44.18 | 38.03 | 6.15 | 54.00 | -9.82 |
| 5350.00 | E | Peak | 63.78 | 57.63 | 6.15 | 74.00 | -10.22 |
| 5354.64 | S | Average | 44.05 | 37.93 | 6.12 | 54.00 | -9.95 |
| 5354.64 | S | Peak | 65.13 | 59.01 | 6.12 | 74.00 | -8.87 |

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Operation Mode : 802.11n20B3 Test Date : 08/10/2016
Fundamental Frequency : 5500 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------------|----------------|--------|-------|--------|
| | | | | | | @ 3m | dBuV/m |
| 5460.00 | E | Average | 43.38 | 37.15 | 6.23 | 54.00 | -10.62 |
| 5460.00 | E | Peak | 56.76 | 50.53 | 6.23 | 74.00 | -17.24 |

Operation Mode : 802.11n20B3 Test Date : 08/10/2016
Fundamental Frequency : 5500 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------------|----------------|--------|-------|--------|
| | | | | | | @ 3m | dBuV/m |
| 5460.00 | E | Average | 43.88 | 37.65 | 6.23 | 54.00 | -10.12 |
| 5460.00 | E | Peak | 57.26 | 51.02 | 6.23 | 74.00 | -16.74 |

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Operation Mode : 802.11n20B3 Test Date : 08/10/2016
Fundamental Frequency : 5500 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------------|----------------|--------|-------|--------|
| | | | | | | @ 3m | dBrV/m |
| 5470.00 | E | Peak | 60.28 | 54.01 | 6.26 | 68.30 | -8.02 |

Operation Mode : 802.11n20B3 Test Date : 08/10/2016
Fundamental Frequency : 5500 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------------|----------------|--------|-------|--------|
| | | | | | | @ 3m | dBrV/m |
| 5470.00 | E | Peak | 62.34 | 56.08 | 6.26 | 68.30 | -5.96 |

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Operation Mode : 802.11n20B3 Test Date : 08/10/2016
Fundamental Frequency : 5700 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------------|----------------|--------|-------|--------|
| | | | | | | @ 3m | dBrV/m |
| 5725.00 | E | Peak | 58.88 | 52.29 | 6.59 | 68.30 | -9.42 |

Operation Mode : 802.11n20B3 Test Date : 08/10/2016
Fundamental Frequency : 5700 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------------|----------------|--------|-------|--------|
| | | | | | | @ 3m | dBrV/m |
| 5725.00 | E | Peak | 63.40 | 56.81 | 6.59 | 68.30 | -4.90 |

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Operation Mode : 802.11n20B4 Test Date : 08/10/2016
Fundamental Frequency : 5745 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum | | Factor | Limit @ 3m | Margin |
|--------------|-----------------|-----------------|-------------------------|----------|------|--------|---------------|--------|
| | | | | QP/AV/PK | FS | | | |
| 5650.00 | E | Peak | 55.66 | 49.17 | 6.48 | 68.23 | -12.57 | |
| 5700.00 | E | Peak | 56.22 | 49.55 | 6.68 | 105.23 | -49.01 | |
| 5720.00 | E | Peak | 62.28 | 55.68 | 6.60 | 110.83 | -48.55 | |
| 5725.00 | E | Peak | 68.78 | 62.19 | 6.59 | 122.23 | -53.45 | |

Operation Mode : 802.11n20B4 Test Date : 08/10/2016
Fundamental Frequency : 5745 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum | | Factor | Limit @ 3m | Margin |
|--------------|-----------------|-----------------|-------------------------|----------|------|--------|---------------|--------|
| | | | | QP/AV/PK | FS | | | |
| 5650.00 | E | Peak | 55.44 | 48.96 | 6.48 | 68.23 | -12.79 | |
| 5700.00 | E | Peak | 56.61 | 49.93 | 6.68 | 105.23 | -48.62 | |
| 5720.00 | E | Peak | 64.90 | 58.30 | 6.60 | 110.83 | -45.93 | |
| 5725.00 | E | Peak | 69.10 | 62.51 | 6.59 | 122.23 | -53.13 | |

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Operation Mode : 802.11n20B4 Test Date : 08/10/2016
Fundamental Frequency : 5825 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum | | Factor | Limit @ 3m | Margin |
|--------------|-----------------|-----------------|-------------------------|----------|------|--------|---------------|--------|
| | | | | QP/AV/PK | FS | | | |
| 5850.00 | E | Peak | 62.51 | 55.23 | 7.28 | 122.23 | -59.72 | |
| 5855.00 | E | Peak | 58.24 | 50.92 | 7.32 | 110.83 | -52.59 | |
| 5875.00 | E | Peak | 57.11 | 49.74 | 7.37 | 105.23 | -48.12 | |
| 5925.00 | E | Peak | 58.31 | 50.92 | 7.39 | 68.23 | -9.92 | |

Operation Mode : 802.11n20B4 Test Date : 08/10/2016
Fundamental Frequency : 5825 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum | | Factor | Limit @ 3m | Margin |
|--------------|-----------------|-----------------|-------------------------|----------|------|--------|---------------|--------|
| | | | | QP/AV/PK | FS | | | |
| 5850.00 | E | Peak | 64.64 | 57.36 | 7.28 | 122.23 | -57.59 | |
| 5855.00 | E | Peak | 60.69 | 53.37 | 7.32 | 110.83 | -50.14 | |
| 5875.00 | E | Peak | 57.46 | 50.09 | 7.37 | 105.23 | -47.77 | |
| 5925.00 | E | Peak | 57.99 | 50.60 | 7.39 | 68.23 | -10.24 | |

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802.11n40 HT mode

Operation Mode : 802.11n40B1 Test Date : 08/10/2016
Fundamental Frequency : 5190 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual Reading Level dB μ V/m | Spectrum FS dB μ V/m | Factor dB | Limit @ 3m dB μ V/m | Margin dB |
|--------------|-----------------|-----------------------------|---|--------------------------------|--------------|-------------------------------|--------------|
| | | | | | | dB μ V/m | dB |
| 5150.00 | E | Average | 45.33 | 39.45 | 5.88 | 54.00 | -8.67 |
| 5150.00 | E | Peak | 60.11 | 54.23 | 5.88 | 74.00 | -13.89 |

Operation Mode : 802.11n40B1 Test Date : 08/10/2016
Fundamental Frequency : 5190 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual Reading Level dB μ V/m | Spectrum FS dB μ V/m | Factor dB | Limit @ 3m dB μ V/m | Margin dB |
|--------------|-----------------|-----------------------------|---|--------------------------------|--------------|-------------------------------|--------------|
| | | | | | | dB μ V/m | dB |
| 5150.00 | E | Average | 46.50 | 40.62 | 5.88 | 54.00 | -7.50 |
| 5150.00 | E | Peak | 65.00 | 59.11 | 5.88 | 74.00 | -9.00 |

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Operation Mode : 802.11n40B2 Test Date : 08/10/2016
Fundamental Frequency : 5310 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual Reading Level dB μ V/m | Spectrum FS dB μ V/m | Factor dB | Limit @ 3m dB μ V/m | Margin dB |
|--------------|-----------------|-----------------------------|---|--------------------------------|--------------|-------------------------------|--------------|
| | | | | | | dB μ V/m | dB |
| 5350.00 | E | Average | 43.66 | 37.51 | 6.15 | 54.00 | -10.34 |
| 5350.00 | E | Peak | 57.79 | 51.64 | 6.15 | 74.00 | -16.21 |

Operation Mode : 802.11n40B2 Test Date : 08/10/2016
Fundamental Frequency : 5310 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual Reading Level dB μ V/m | Spectrum FS dB μ V/m | Factor dB | Limit @ 3m dB μ V/m | Margin dB |
|--------------|-----------------|-----------------------------|---|--------------------------------|--------------|-------------------------------|--------------|
| | | | | | | dB μ V/m | dB |
| 5350.00 | E | Average | 44.41 | 38.26 | 6.15 | 54.00 | -9.59 |
| 5350.00 | E | Peak | 61.65 | 55.50 | 6.15 | 74.00 | -12.35 |

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Operation Mode : 802.11n40B3 Test Date : 08/10/2016
Fundamental Frequency : 5510 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------------|----------------|--------|-------|--------|
| | | | | | | @ 3m | dBuV/m |
| 5460.00 | E | Average | 45.91 | 39.68 | 6.23 | 54.00 | -8.09 |
| 5460.00 | E | Peak | 65.35 | 59.12 | 6.23 | 74.00 | -8.65 |

Operation Mode : 802.11n40B3 Test Date : 08/10/2016
Fundamental Frequency : 5510 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------------|----------------|--------|-------|--------|
| | | | | | | @ 3m | dBuV/m |
| 5460.00 | E | Average | 47.14 | 40.91 | 6.23 | 54.00 | -6.86 |
| 5460.00 | E | Peak | 64.40 | 58.16 | 6.23 | 74.00 | -9.60 |

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Operation Mode : 802.11n40B3 Test Date : 08/10/2016
Fundamental Frequency : 5510 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------------|----------------|--------|-------|--------|
| | | | | | | @ 3m | dBrV/m |
| 5470.00 | E | Peak | 64.50 | 58.23 | 6.26 | 68.30 | -3.80 |

Operation Mode : 802.11n40B3 Test Date : 08/10/2016
Fundamental Frequency : 5510 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------------|----------------|--------|-------|--------|
| | | | | | | @ 3m | dBrV/m |
| 5470.00 | E | Peak | 67.47 | 61.21 | 6.26 | 68.30 | -0.83 |

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Operation Mode : 802.11n40B3 Test Date : 08/10/2016
Fundamental Frequency : 5670 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | Spectrum | Factor | Limit | Margin |
|--------------|-----------------|-----------------|----------|-------------------------------|--------------------|------------|--------|
| | | | QP/AV/PK | Reading Level dB μ V/m | FS dB μ V/m | @ 3m dB | dBuV/m |
| 5725.00 | E | Peak | 57.04 | 50.45 | 6.59 | 68.30 | -11.26 |

Operation Mode : 802.11n40B3 Test Date : 08/10/2016
Fundamental Frequency : 5670 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | Spectrum | Factor | Limit | Margin |
|--------------|-----------------|-----------------|----------|-------------------------------|--------------------|------------|--------|
| | | | QP/AV/PK | Reading Level dB μ V/m | FS dB μ V/m | @ 3m dB | dBuV/m |
| 5725.00 | E | Peak | 57.60 | 51.01 | 6.59 | 68.30 | -10.70 |

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Operation Mode : 802.11n40B4 Test Date : 08/10/2016
Fundamental Frequency : 5755 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum | | Factor | Limit @ 3m | Margin |
|--------------|-----------------|-----------------|-------------------------|----------|------|--------|---------------|--------|
| | | | | QP/AV/PK | FS | | | |
| 5650.00 | E | Peak | 56.44 | 49.96 | 6.48 | 68.23 | -11.79 | |
| 5700.00 | E | Peak | 57.17 | 50.50 | 6.68 | 105.23 | -48.06 | |
| 5720.00 | E | Peak | 68.07 | 61.47 | 6.60 | 110.83 | -42.76 | |
| 5725.00 | E | Peak | 69.36 | 62.76 | 6.59 | 122.23 | -52.87 | |

Operation Mode : 802.11n40B4 Test Date : 08/10/2016
Fundamental Frequency : 5755 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum | | Factor | Limit @ 3m | Margin |
|--------------|-----------------|-----------------|-------------------------|----------|------|--------|---------------|--------|
| | | | | QP/AV/PK | FS | | | |
| 5650.00 | E | Peak | 57.42 | 50.93 | 6.48 | 68.23 | -10.81 | |
| 5700.00 | E | Peak | 62.47 | 55.79 | 6.68 | 105.23 | -42.76 | |
| 5720.00 | E | Peak | 71.89 | 65.29 | 6.60 | 110.83 | -38.94 | |
| 5725.00 | E | Peak | 75.19 | 68.60 | 6.59 | 122.23 | -47.04 | |

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Operation Mode : 802.11n40B4 Test Date : 08/10/2016
Fundamental Frequency : 5795 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum | | Factor | Limit @ 3m | Margin |
|--------------|-----------------|-----------------|-------------------------|----------|------|--------|---------------|--------|
| | | | | QP/AV/PK | FS | | | |
| 5850.00 | E | Peak | 57.70 | 50.41 | 7.28 | 122.23 | -64.53 | |
| 5855.00 | E | Peak | 57.89 | 50.57 | 7.32 | 110.83 | -52.94 | |
| 5875.00 | E | Peak | 58.28 | 50.91 | 7.37 | 105.23 | -46.95 | |
| 5925.00 | E | Peak | 58.38 | 50.99 | 7.39 | 68.23 | -9.85 | |

Operation Mode : 802.11n40B4 Test Date : 08/10/2016
Fundamental Frequency : 5795 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum | | Factor | Limit @ 3m | Margin |
|--------------|-----------------|-----------------|-------------------------|----------|------|--------|---------------|--------|
| | | | | QP/AV/PK | FS | | | |
| 5850.00 | E | Peak | 58.34 | 51.06 | 7.28 | 122.23 | -63.89 | |
| 5855.00 | E | Peak | 59.52 | 52.20 | 7.32 | 110.83 | -51.31 | |
| 5875.00 | E | Peak | 57.88 | 50.51 | 7.37 | 105.23 | -47.35 | |
| 5925.00 | E | Peak | 57.95 | 50.56 | 7.39 | 68.23 | -10.28 | |

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802.11ac80 VHT mode

Operation Mode : 802.11ac80B1 Test Date : 08/10/2016
Fundamental Frequency : 5210 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual Reading Level dB μ V/m | Spectrum FS dB μ V/m | Factor dB | Limit @ 3m dB μ V/m | Margin dB |
|--------------|-----------------|-----------------------------|---|--------------------------------|--------------|-------------------------------|--------------|
| | | | | | | dB μ V/m | dB |
| 5150.00 | E | Average | 45.06 | 39.18 | 5.88 | 54.00 | -8.94 |
| 5150.00 | E | Peak | 64.09 | 58.21 | 5.88 | 74.00 | -9.91 |

Operation Mode : 802.11ac80B1 Test Date : 08/10/2016
Fundamental Frequency : 5210 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual Reading Level dB μ V/m | Spectrum FS dB μ V/m | Factor dB | Limit @ 3m dB μ V/m | Margin dB |
|--------------|-----------------|-----------------------------|---|--------------------------------|--------------|-------------------------------|--------------|
| | | | | | | dB μ V/m | dB |
| 5150.00 | E | Average | 44.67 | 38.79 | 5.88 | 54.00 | -9.33 |
| 5150.00 | E | Peak | 62.20 | 56.32 | 5.88 | 74.00 | -11.80 |

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Operation Mode : 802.11ac80B2 Test Date : 08/10/2016
Fundamental Frequency : 5290 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | | Spectrum FS | Factor | Limit @ 3m | Margin |
|--------------|-----------------|-----------------|----------|-------------------------------|----------------|--------|---------------|--------|
| | | | QP/AV/PK | Reading Level dB μ V/m | | | | |
| 5350.00 | E | Average | 45.21 | 39.06 | 6.15 | 54.00 | -8.79 | |
| 5350.00 | E | Peak | 67.23 | 61.08 | 6.15 | 74.00 | -6.77 | |

Operation Mode : 802.11ac80B2 Test Date : 08/10/2016
Fundamental Frequency : 5290 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | | Spectrum FS | Factor | Limit @ 3m | Margin |
|--------------|-----------------|-----------------|----------|-------------------------------|----------------|--------|---------------|--------|
| | | | QP/AV/PK | Reading Level dB μ V/m | | | | |
| 5350.00 | E | Average | 45.74 | 39.59 | 6.15 | 54.00 | -8.26 | |
| 5350.00 | E | Peak | 69.71 | 63.56 | 6.15 | 74.00 | -4.29 | |

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Operation Mode : 802.11ac80B3 Test Date : 08/10/2016
Fundamental Frequency : 5530 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual | | Spectrum FS | Factor | Limit @ 3m | Margin |
|--------------|-----------------|-----------------------------|---------|-------|----------------|--------|---------------|--------|
| | | | Reading | Level | | | | |
| 5457.00 | S | Average | 47.11 | | 40.89 | 6.22 | 54.00 | -6.89 |
| 5457.00 | S | Peak | 65.73 | | 59.51 | 6.22 | 74.00 | -8.27 |
| 5460.00 | E | Average | 47.22 | | 40.99 | 6.23 | 54.00 | -6.78 |
| 5460.00 | E | Peak | 63.61 | | 57.37 | 6.23 | 74.00 | -10.39 |

Operation Mode : 802.11ac80B3 Test Date : 08/10/2016
Fundamental Frequency : 5530 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | Actual | | Spectrum FS | Factor | Limit @ 3m | Margin |
|--------------|-----------------|-----------------------------|---------|-------|----------------|--------|---------------|--------|
| | | | Reading | Level | | | | |
| 5460.00 | E | Average | 48.61 | | 42.38 | 6.23 | 54.00 | -5.39 |
| 5460.00 | E | Peak | 64.52 | | 58.29 | 6.23 | 74.00 | -9.48 |

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Operation Mode : 802.11ac80B3 Test Date : 08/10/2016
Fundamental Frequency : 5530 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------------|----------------|--------|-------|--------|
| | | | | | | @ 3m | dBuV/m |
| 5469.60 | E | Peak | 66.30 | 60.04 | 6.26 | 68.30 | -2.00 |
| 5470.00 | E | Peak | 64.49 | 58.22 | 6.26 | 68.30 | -3.81 |

Operation Mode : 802.11ac80B3 Test Date : 08/10/2016
Fundamental Frequency : 5530 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual Reading Level | Spectrum FS | Factor | Limit | Margin |
|--------------|-----------------|-----------------|-------------------------|----------------|--------|-------|--------|
| | | | | | | @ 3m | dBuV/m |
| 5469.70 | E | Peak | 67.28 | 61.01 | 6.26 | 68.30 | -1.02 |
| 5470.00 | E | Peak | 66.58 | 60.31 | 6.26 | 68.30 | -1.72 |

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Operation Mode : 802.11ac80B4 Test Date : 08/10/2016
Fundamental Frequency : 5775 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | | Spectrum FS | Factor | Limit @ 3m | Margin |
|--------------|-----------------|-----------------|----------|-------------------------------|----------------|--------|---------------|--------|
| | | | QP/AV/PK | Reading Level dB μ V/m | | | | |
| 5650.00 | E | Peak | 58.70 | 52.22 | 6.48 | 68.23 | -9.53 | |
| 5700.00 | E | Peak | 58.75 | 52.07 | 6.68 | 105.23 | -46.48 | |
| 5720.00 | E | Peak | 65.70 | 59.10 | 6.60 | 110.83 | -45.13 | |
| 5725.00 | E | Peak | 64.59 | 58.00 | 6.59 | 122.23 | -57.64 | |

Operation Mode : 802.11ac80B4 Test Date : 08/10/2016
Fundamental Frequency : 5775 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH LOW Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | | Spectrum FS | Factor | Limit @ 3m | Margin |
|--------------|-----------------|-----------------|----------|-------------------------------|----------------|--------|---------------|--------|
| | | | QP/AV/PK | Reading Level dB μ V/m | | | | |
| 5650.00 | E | Peak | 63.14 | 56.66 | 6.48 | 68.23 | -5.09 | |
| 5700.00 | E | Peak | 65.68 | 59.01 | 6.68 | 105.23 | -39.55 | |
| 5720.00 | E | Peak | 68.71 | 62.11 | 6.60 | 110.83 | -42.12 | |
| 5725.00 | E | Peak | 68.59 | 62.00 | 6.59 | 122.23 | -53.64 | |

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Operation Mode : 802.11ac80B4 Test Date : 08/10/2016
Fundamental Frequency : 5775 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | | Spectrum FS | Factor | Limit @ 3m | Margin |
|--------------|-----------------|-----------------|----------|-------------------------------|----------------|--------|---------------|--------|
| | | | QP/AV/PK | Reading Level dB μ V/m | | | | |
| 5850.00 | E | Peak | 58.16 | 50.88 | 7.28 | 122.23 | -64.07 | |
| 5855.00 | E | Peak | 57.56 | 50.24 | 7.32 | 110.83 | -53.27 | |
| 5875.00 | E | Peak | 58.10 | 50.73 | 7.37 | 105.23 | -47.13 | |
| 5925.00 | E | Peak | 57.65 | 50.26 | 7.39 | 68.23 | -10.58 | |

Operation Mode : 802.11ac80B4 Test Date : 08/10/2016
Fundamental Frequency : 5775 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Bandedge CH HIGH Test Engineer : Kane
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

| Freq. MHz | Note F/H/E/S | Decetor Mode | Actual | | Spectrum FS | Factor | Limit @ 3m | Margin |
|--------------|-----------------|-----------------|----------|-------------------------------|----------------|--------|---------------|--------|
| | | | QP/AV/PK | Reading Level dB μ V/m | | | | |
| 5850.00 | E | Peak | 62.08 | 54.80 | 7.28 | 122.23 | -60.15 | |
| 5855.00 | E | Peak | 62.32 | 55.00 | 7.32 | 110.83 | -48.51 | |
| 5875.00 | E | Peak | 61.54 | 54.17 | 7.37 | 105.23 | -43.69 | |
| 5925.00 | E | Peak | 59.21 | 51.82 | 7.39 | 68.23 | -9.02 | |

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12. TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

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

12.2 Result

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

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13. FREQUENCY STABILITY

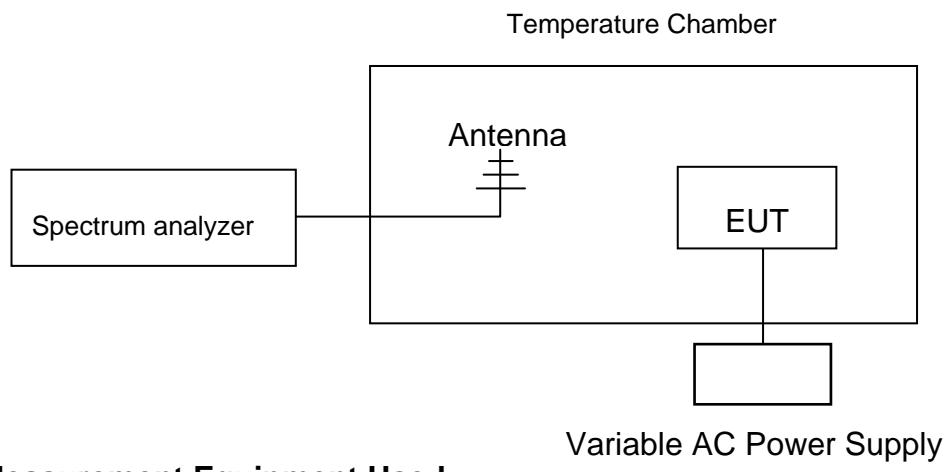
13.1 Standard Applicable

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

13.2 Measurement Procedure

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

13.3 Test SET-UP



13.4 Measurement Equipment Used:

| SGS Conducted Room | | | | | |
|-----------------------|---------------|-----------|---------------|------------------|-----------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due |
| EXA Spectrum Analyzer | Agilent | N9030A | MY53120760 | 02/26/2016 | 02/25/2017 |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 01/02/2016 | 01/01/2017 |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 05/17/2016 | 05/16/2017 |

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13.5 Measurement Result

| | | | |
|----------------|----------|-----------|------------|
| Operation Mode | 802.11 a | Test Date | 2016.08.19 |
| Temperature | :25 | Test By | Curry |
| Humidity | :60 % | | |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| 0 | 5.5V | 36 | 5180 | 5,179.98486 | 0.00000292 |
| | | 44 | 5220 | 5,219.98486 | 0.00000290 |
| | | 48 | 5240 | 5,239.98486 | 0.00000289 |
| | | 52 | 5260 | 5,259.98486 | 0.00000288 |
| | | 60 | 5300 | 5,299.98486 | 0.00000286 |
| | | 64 | 5320 | 5,319.98486 | 0.00000285 |
| | | 100 | 5500 | 5,499.98486 | 0.00000275 |
| | | 116 | 5580 | 5,579.98486 | 0.00000271 |
| | | 140 | 5700 | 5,699.98486 | 0.00000266 |
| | | 149 | 5745 | 5,745.00000 | 0.000000000 |
| | 4.5V | 157 | 5785 | 5,784.98486 | 0.00000262 |
| | | 165 | 5825 | 5,824.98486 | 0.00000260 |
| | | 36 | 5180 | 5,179.98486 | 0.00000292 |
| | | 44 | 5220 | 5,220.00000 | 0.000000000 |
| | | 48 | 5240 | 5,239.98486 | 0.00000289 |
| | | 52 | 5260 | 5,259.98486 | 0.00000288 |
| | | 60 | 5300 | 5,299.98486 | 0.00000286 |
| | | 64 | 5320 | 5,319.98486 | 0.00000285 |
| | | 100 | 5500 | 5,499.98486 | 0.00000275 |
| | | 116 | 5580 | 5,579.98486 | 0.00000271 |
| | | 140 | 5700 | 5,699.98486 | 0.00000266 |
| | | 149 | 5745 | 5,744.98486 | 0.00000263 |
| | | 157 | 5785 | 5,784.98486 | 0.00000262 |
| | | 165 | 5825 | 5,824.98486 | 0.00000260 |

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| | | | | | |
|----|------|-----|------|-------------|------------|
| 25 | 5V | 36 | 5180 | 5,179.98486 | 0.00000292 |
| | | 44 | 5220 | 5,219.98486 | 0.00000290 |
| | | 48 | 5240 | 5,239.98486 | 0.00000289 |
| | | 52 | 5260 | 5,259.98486 | 0.00000288 |
| | | 60 | 5300 | 5,299.98486 | 0.00000286 |
| | | 64 | 5320 | 5,319.98486 | 0.00000285 |
| | | 100 | 5500 | 5,499.98486 | 0.00000275 |
| | | 116 | 5580 | 5,579.98486 | 0.00000271 |
| | | 140 | 5700 | 5,699.98486 | 0.00000266 |
| | | 149 | 5745 | 5,744.98486 | 0.00000263 |
| | | 157 | 5785 | 5,784.98486 | 0.00000262 |
| | | 165 | 5825 | 5,824.98486 | 0.00000260 |
| 60 | 5.5V | 36 | 5180 | 5,179.98486 | 0.00000292 |
| | | 44 | 5220 | 5,219.98486 | 0.00000290 |
| | | 48 | 5240 | 5,239.98486 | 0.00000289 |
| | | 52 | 5260 | 5,259.98486 | 0.00000288 |
| | | 60 | 5300 | 5,299.98486 | 0.00000286 |
| | | 64 | 5320 | 5,319.98486 | 0.00000285 |
| | | 100 | 5500 | 5,499.98486 | 0.00000275 |
| | | 116 | 5580 | 5,579.98486 | 0.00000271 |
| | | 140 | 5700 | 5,699.98486 | 0.00000266 |
| | | 149 | 5745 | 5,744.98486 | 0.00000263 |
| | | 157 | 5785 | 5,784.98486 | 0.00000262 |
| | | 165 | 5825 | 5,824.98486 | 0.00000260 |
| | 4.5V | 36 | 5180 | 5,179.98486 | 0.00000292 |
| | | 44 | 5220 | 5,219.98486 | 0.00000290 |
| | | 48 | 5240 | 5,239.98486 | 0.00000289 |
| | | 52 | 5260 | 5,259.98486 | 0.00000288 |
| | | 60 | 5300 | 5,299.98486 | 0.00000286 |
| | | 64 | 5320 | 5,319.98486 | 0.00000285 |
| | | 100 | 5500 | 5,499.98486 | 0.00000275 |
| | | 116 | 5580 | 5,579.98486 | 0.00000271 |
| | | 140 | 5700 | 5,699.98486 | 0.00000266 |
| | | 149 | 5745 | 5,744.98486 | 0.00000263 |
| | | 157 | 5785 | 5,784.98486 | 0.00000262 |
| | | 165 | 5825 | 5,824.98486 | 0.00000260 |

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| | | | |
|----------------|---------------|-----------|------------|
| Operation Mode | 802.11 n_HT40 | Test Date | 2016.08.19 |
| Temperature | :17 | Test By | Curry |
| Humidity | :65 % | | |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| 0 | 5.5V | 38 | 5190 | 5,190.00000 | 0.000000000 |
| | | 46 | 5230 | 5,230.00000 | 0.000000000 |
| | | 54 | 5270 | 5,269.97510 | 0.00000473 |
| | | 62 | 5310 | 5,309.97510 | 0.00000469 |
| | | 102 | 5510 | 5,509.97510 | 0.00000452 |
| | | 110 | 5550 | 5,550.00000 | 0.000000000 |
| | | 134 | 5670 | 5,669.97510 | 0.00000439 |
| | | 151 | 5755 | 5,755.00000 | 0.000000000 |
| | 4.5V | 159 | 5795 | 5,794.97510 | 0.00000430 |
| | | 38 | 5190 | 5,189.97510 | 0.00000480 |
| | | 46 | 5230 | 5,229.97510 | 0.00000476 |
| | | 54 | 5270 | 5,270.00000 | 0.000000000 |
| | | 62 | 5310 | 5,309.97510 | 0.00000469 |
| | | 102 | 5510 | 5,509.97510 | 0.00000452 |
| | | 110 | 5550 | 5,549.97510 | 0.00000449 |
| | | 134 | 5670 | 5,669.97510 | 0.00000439 |
| | | 151 | 5755 | 5,754.97510 | 0.00000433 |
| | | 159 | 5795 | 5,794.97510 | 0.00000430 |

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| | | | | | |
|----|------|-----|------|-------------|------------|
| 25 | 5V | 38 | 5190 | 5,190.00000 | 0.00000000 |
| | | 46 | 5230 | 5,230.00000 | 0.00000000 |
| | | 54 | 5270 | 5,269.97510 | 0.00000473 |
| | | 62 | 5310 | 5,310.00000 | 0.00000000 |
| | | 102 | 5510 | 5,509.97510 | 0.00000452 |
| | | 110 | 5550 | 5,549.97510 | 0.00000449 |
| | | 134 | 5670 | 5,670.00000 | 0.00000000 |
| | | 151 | 5755 | 5,754.97510 | 0.00000433 |
| | | 159 | 5795 | 5,794.97510 | 0.00000430 |
| | | 38 | 5190 | 5,190.00000 | 0.00000000 |
| 60 | 5.5V | 46 | 5230 | 5,230.00000 | 0.00000000 |
| | | 54 | 5270 | 5,269.97510 | 0.00000473 |
| | | 62 | 5310 | 5,309.97510 | 0.00000469 |
| | | 102 | 5510 | 5,509.97510 | 0.00000452 |
| | | 110 | 5550 | 5,550.00000 | 0.00000000 |
| | | 134 | 5670 | 5,669.97510 | 0.00000439 |
| | | 151 | 5755 | 5,754.97510 | 0.00000433 |
| | | 159 | 5795 | 5,795.00000 | 0.00000000 |
| | | 38 | 5190 | 5,190.00000 | 0.00000000 |
| | | 46 | 5230 | 5,230.00000 | 0.00000000 |
| 60 | 4.5V | 54 | 5270 | 5,269.97510 | 0.00000473 |
| | | 62 | 5310 | 5,309.97510 | 0.00000469 |
| | | 102 | 5510 | 5,510.00000 | 0.00000000 |
| | | 110 | 5550 | 5,549.97510 | 0.00000449 |
| | | 134 | 5670 | 5,670.00000 | 0.00000000 |
| | | 151 | 5755 | 5,754.97510 | 0.00000433 |
| | | 159 | 5795 | 5,795.00000 | 0.00000000 |
| | | 38 | 5190 | 5,190.00000 | 0.00000000 |
| | | 46 | 5230 | 5,230.00000 | 0.00000000 |
| | | 54 | 5270 | 5,269.97510 | 0.00000473 |

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| | | | |
|----------------|-----------------|-----------|------------|
| Operation Mode | 802.11 ac_VHT80 | Test Date | 2016.08.19 |
| Temperature | :17 | Test By | Curry |
| Humidity | :65 % | | |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| 0 | 5.5V | 42 | 5210 | 5,209.95020 | 0.00000956 |
| | | 58 | 5290 | 5,289.95020 | 0.00000941 |
| | | 106 | 5530 | 5,529.95020 | 0.00000901 |
| | | 122 | 5610 | 5,609.95020 | 0.00000888 |
| | | 155 | 5775 | 5,775.00000 | 0.00000000 |
| | 4.5V | 42 | 5210 | 5,209.95020 | 0.00000956 |
| | | 58 | 5290 | 5,289.95020 | 0.00000941 |
| | | 106 | 5530 | 5,529.95020 | 0.00000901 |
| | | 122 | 5610 | 5,610.00000 | 0.00000000 |
| | | 155 | 5775 | 5,775.00000 | 0.00000000 |
| 25 | 5V | 42 | 5210 | 5,209.95020 | 0.00000956 |
| | | 58 | 5290 | 5,290.00000 | 0.00000000 |
| | | 106 | 5530 | 5,529.95020 | 0.00000901 |
| | | 122 | 5610 | 5,610.00000 | 0.00000000 |
| | | 155 | 5775 | 5,775.00000 | 0.00000000 |
| 60 | 5.5V | 42 | 5210 | 5,209.95020 | 0.00000956 |
| | | 58 | 5290 | 5,289.95020 | 0.00000941 |
| | | 106 | 5530 | 5,529.95020 | 0.00000901 |
| | | 122 | 5610 | 5,609.95020 | 0.00000888 |
| | | 155 | 5775 | 5,774.95020 | 0.00000862 |
| | 4.5V | 42 | 5210 | 5,210.00000 | 0.00000000 |
| | | 58 | 5290 | 5,289.95020 | 0.00000941 |
| | | 106 | 5530 | 5,529.95020 | 0.00000901 |
| | | 122 | 5610 | 5,610.00000 | 0.00000000 |
| | | 155 | 5775 | 5,775.00000 | 0.00000000 |

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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.

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15. FCC MAXIMUM PERMISSIBLE EXPOSURE (MPE)

15.1 Standard Applicable

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1093 RF exposure is calculated.

Limits for Maximum Permissive Exposure (MPE)

| Frequency Range (MHz) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm ²) | Averaging Time (minute) |
|---|-------------------------------|-------------------------------|-------------------------------------|-------------------------|
| Limits for General Population/Uncontrolled Exposure | | | | |
| 0.3-1.34 | 614 | 1.63 | *(100) | 30 |
| 1.34-30 | 824/f | 2.19/f | *(180/f ²) | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1500 | / | / | F/1500 | 30 |
| 1500-15000 | / | / | 1.0 | 30 |

F = frequency in MHz

* = Plane-wave equipment power density

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG/4\pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

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15.2 Maximum Permissible Exposure (MPE) Evaluation (Worst Case)

802.11a Max. output power

802.11a_Main

| CH | Frequency (MHz) | Data Rate | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-------------------|------------------|---------------------------------|--------|
| 36 | 5180 | MCS0 | 10.45 | 11.092 | 23.98 | PASS |
| 44 | 5220 | MCS0 | 10.47 | 11.143 | 23.98 | PASS |
| 48 | 5240 | MCS0 | 10.40 | 10.965 | 23.98 | PASS |
| 52 | 5260 | MCS0 | 11.26 | 13.366 | 23.98 or $11+10\log(B) = 24.31$ | PASS |
| 60 | 5300 | MCS0 | 11.03 | 12.677 | 23.98 or $11+10\log(B) = 24.34$ | PASS |
| 64 | 5320 | MCS0 | 11.06 | 12.764 | 23.98 or $11+10\log(B) = 24.34$ | PASS |
| 100 | 5500 | MCS0 | 10.47 | 11.143 | 23.98 or $11+10\log(B) = 24.35$ | PASS |
| 116 | 5580 | MCS0 | 9.83 | 9.616 | 23.98 or $11+10\log(B) = 24.35$ | PASS |
| 140 | 5700 | MCS0 | 9.46 | 8.831 | 23.98 or $11+10\log(B) = 24.33$ | PASS |
| 149 | 5745 | MCS0 | 10.27 | 10.641 | 30 | PASS |
| 157 | 5785 | MCS0 | 9.30 | 8.511 | 30 | PASS |
| 165 | 5825 | MCS0 | 9.45 | 8.810 | 30 | PASS |

MPE Prediction (802.11a 5150~5250)

| | | |
|---|--------------|-----------------------|
| Average output power at antenna input terminal: | 10.47 | (dBm) |
| Average output power at antenna input terminal: | 11.142945 | (mW) |
| Duty cycle: | 97.11 | (%) |
| Maximum Pav : | 10.820914 | (mW) |
| Peak Antenna gain (Maximum): | 2.63 | (dBi) |
| Peak Antenna gain (linear): | 1.8323144 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5220 | (MHz) |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.004 | (mW/cm ²) |

Measurement Result

The predicted power density level at 20 cm is 0.004 mW/cm².

This is below the uncontrolled exposure limit of 1 mW/cm² at 5220MHz.

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MPE Prediction (802.11a 5250~5350)

| | | |
|---|-----------|-----------------------|
| Average output power at antenna input terminal: | 11.26 | (dBm) |
| Average output power at antenna input terminal: | 13.365955 | (mW) |
| Duty cycle: | 97.11 | (%) |
| Maximum Pav : | 12.979679 | (mW) |
| Peak Antenna gain (Maximum): | 2.28 | (dBi) |
| Peak Antenna gain (linear): | 1.6904409 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5260 | (MHz) |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.004 | (mW/cm ²) |

Measurement Result

The predicted power density level at 20 cm is 0.004 mW/cm².

This is below the uncontrolled exposure limit of 1 mW/cm² at 5260MHz.

MPE Prediction (802.11a 5470~5725)

| | | |
|---|-----------|-----------------------|
| Average output power at antenna input terminal: | 10.47 | (dBm) |
| Average output power at antenna input terminal: | 11.142945 | (mW) |
| Duty cycle: | 97.11 | (%) |
| Maximum Pav : | 10.820914 | (mW) |
| Peak Antenna gain (Maximum): | 4.08 | (dBi) |
| Peak Antenna gain (linear): | 2.5585859 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5500 | (MHz) |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.006 | (mW/cm ²) |

Measurement Result

The predicted power density level at 20 cm is 0.006 mW/cm².

This is below the uncontrolled exposure limit of 1 mW/cm² at 5500MHz.

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MPE Prediction (802.11a 5725~5850)

| | | |
|---|-----------|-----------------------|
| Average output power at antenna input terminal: | 10.27 | (dBm) |
| Average output power at antenna input terminal: | 10.64143 | (mW) |
| Duty cycle: | 97.11 | (%) |
| Maximum Pav : | 10.333893 | (mW) |
| Peak Antenna gain (Maximum): | 3.63 | (dBi) |
| Peak Antenna gain (linear): | 2.3067472 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5745 | (MHz) |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.005 | (mW/cm ²) |

Measurement Result

The predicted power density level at 20 cm is 0.005 mW/cm².

This is below the uncontrolled exposure limit of 1 mW/cm² at 5745MHz.

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