

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT OF

Product Name: 52F185V10000

Brand Name: Flytech

Model No.: 52F185V10000

Model Difference: N/A

FCC ID: XHM-PB63D31

Report No.: E2/2016/80074

Issue Date: Sep. 05, 2016

FCC Rule Part: §15.407

FLYTECH Technology Co., Ltd.

Prepared for: 1F, No. 168, Sing-Ai Rd., NeiHu District
11494, Taipei, Taiwan

SGS Taiwan Ltd.

Prepared by: Electronics & Communication Laboratory
No.2, Keji 1st Rd., Guishan District, Taoyuan
City, Taiwan 333



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VERIFICATION OF COMPLIANCE

Applicant: FLYTECH Technology Co., Ltd.
1F, No. 168, Sing-Ai Rd., NeiHu District 11494, Taipei, Taiwan

Product Name: 52F185V10000

Brand Name: Flytech

Model No.: 52F185V10000

Model Difference: N/A

FCC ID: XHM-PB63D31

File Number: E2/2016/80074

Date of Test: Aug. 18, 2016 ~ Sep. 03, 2016

Date of EUT Received: Aug. 08, 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 com-
pliance 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. 05, 2016

Jerry Lu / Sr. Engineer

Prepared By:

Date:

Sep. 05, 2016

Allen Tsai / Engineer

Approved By:

Date:

Sep. 05, 2016

Jim Chang / Asst. Manager

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Revision History

| Report Number | Revision | Description | Issue Date |
|---------------|----------|------------------------------|---------------|
| E2/2016/80074 | Rev.00 | Initial creation of document | Sep. 05, 2016 |
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1 GENERAL INFORMATION

1.1 Product Description

General:

| | |
|------------------------------|---------------------------|
| Product Name: | 52F185V10000 |
| Brand Name: | Flytech |
| Model No.: | 52F185V10000 |
| 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: | 3.3V from DC Power Supply |

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WLAN 5GHz:

| Wi-Fi | Frequency Range | Channels | Rated Power (Avg.) | Modulation Technology |
|--------------|---------------------------|----------|----------------------------|-----------------------|
| 11a | 5150~5250 | 4 | 12.98 dBm | OFDM |
| | 5250~5350 | 4 | 12.96 dBm | |
| | 5470~5725 | 12 | 12.97 dBm | |
| | 5725-5850 | 5 | 12.96 dBm | |
| 11n / ac_20M | HT20 / VHT20 5150~5250 | 4 | HT: 11.95 dBm (Worst Case) | OFDM |
| | HT20 / VHT20 5250~5350 | 4 | HT: 11.97 dBm (Worst Case) | |
| | HT20 / VHT20 5470~5725 | 11 | HT: 11.96 dBm (Worst Case) | |
| | HT20 / VHT20 5725-5850 | 5 | HT: 11.98 dBm (Worst Case) | |
| 11n / ac_40M | HT40 / VHT40 5150~5250 | 2 | HT: 11.98 dBm (Worst Case) | OFDM |
| | HT40 / VHT40 5250~5350 | 2 | HT: 11.97 dBm (Worst Case) | |
| | HT40 / VHT40 5470~5725 | 5 | HT: 11.98 dBm (Worst Case) | |
| | HT40 / VHT40 5725-5850 | 2 | HT: 11.96 dBm (Worst Case) | |
| 11ac_80M | VHT80 5150~5250 | 1 | 9.97 dBm | OFDM |
| | VHT80 5250~5350 | 1 | 9.96 dBm | |
| | VHT80 5470~5725 | 2 | 9.94 dBm | |
| | VHT80 5725-5850 | 1 | 9.83 dBm | |

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| | |
|---------------------|--|
| Antenna Designation | 1. PIFA PCB Assembly Antenna, Part No.:6LNA14000020, Supplier: JiangyinSINBON Electronics Co., Ltd. 5GHz Gain: 1.44dBi (5150MHz-5250MHz) 5GHz Gain: 2.77dBi (5250MHz-5350MHz) 5GHz Gain: 3.34dBi (5470MHz-5725MHz) 5GHz Gain: 1.96dBi (5725MHz-5850MHz) 2. WiFi Dual Metal Sheet Antenna, Part No.:A9702456, Supplier: SINBON Electronics Co., Ltd. Supplier: JiangyinSINBON Electronics Co., Ltd. 5GHz Gain: 1.11dBi (5150MHz-5250MHz) 5GHz Gain: 2.10dBi (5250MHz-5350MHz) 5GHz Gain: 2.28dBi (5470MHz-5725MHz) 5GHz Gain: 1.96dBi (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_20MHz: 6.5 – 72.2Mbps 802.11 n_40MHz: 13.5 - 150.0Mbps 802.11 ac_20MHz: 6.5 –86.7Mbps 802.11 ac_40MHz: 13.5 -200.0Mbps 802.11 ac_80MHz: 29.3 – 433.3Mbps |

1.2 Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is supporting below features.

| Product Feature | |
|-------------------|-------------------|
| Bluetooth Version | BT4.0dual mode |
| WLAN | 802.11 a/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

ANSI C63.10:2013

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

1.4 Test Facility

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

FCC Registration Numbers are: 735305

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.

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 6.6dB, and 10dB attenuator.

$$= \text{RF cable loss (dB)} + \text{attenuation factor(dB)} = 12.3(\text{dB})$$

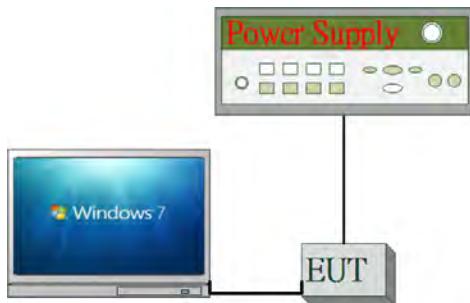
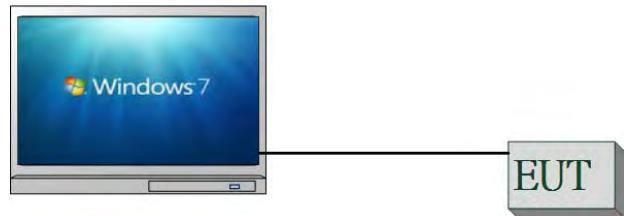
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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission**Fig. 2-2 Radiated (Antenna Port) Configuration Emission****Table 2-1 Equipment Used in Tested System**

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Data Cable | Power Cord |
|------|--------------------|-----------|----------------|------------|------------|------------|
| 1 | Notebook | Lenovo | L440 | R9-007LAZ | Shielded | Unshielded |
| 2 | WLAN Test Software | N/A | N/A | N/A | N/A | N/A |
| 3. | DC Power Supply | Agilent | E3634A | MY53180030 | N/A | Unshielded |

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3 SUMMARY OF TEST RESULT

| FCC Rules | Description Of Test | Result |
|--------------------------|--|-----------|
| §15.207 | AC Power Line Conducted Emission | N/A |
| §15.403(i) §15.407(e) | 26 dB & 6dB & 99% 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:

| 802.11a / n HT20 Mode, 802.11ac VHT20 Mode | |
|---|-----------|
| Channel | Frequency |
| 36 | 5180 |
| 40 | 5200 |
| 44 | 5220 |
| 48 | 5240 |

| 802.11 n HT40 Mode, 802.11ac VHT40 Mode | |
|--|-----------|
| channel | Frequency |
| 38 | 5190 |
| 46 | 5230 |

| 802.11ac VHT80 Mode | |
|---------------------|-----------|
| channel | Frequency |
| 42 | 5210 |

Operated band in 5250 MHz ~5350 MHz:

| 802.11a / n HT20 Mode, 802.11ac VHT20 Mode | |
|---|-----------|
| channel | Frequency |
| 52 | 5260 |
| 56 | 5280 |
| 60 | 5300 |
| 64 | 5320 |

| 802.11 n HT40 Mode, 802.11ac VHT40 Mode | |
|--|-----------|
| channel | Frequency |
| 54 | 5270 |
| 62 | 5310 |

| 802.11ac VHT80 Mode | |
|---------------------|-----------|
| Channel | Frequency |
| 58 | 5290 |

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Operated band in 5470 MHz ~5725 MHz:

| 802.11a / n HT20 Mode, 802.11ac VHT20 Mode | |
|---|-----------|
| Channel | Frequency |
| 100 | 5500 |
| 104 | 5520 |
| 108 | 5540 |
| 112 | 5560 |
| 116 | 5580 |
| 120 | 5600 |
| 124 | 5620 |
| 128 | 5640 |
| 132 | 5660 |
| 136 | 5680 |
| 140 | 5700 |

| 802.11 n HT40 Mode, 802.11ac VHT40 Mode | |
|--|-----------|
| channel | Frequency |
| 102 | 5510 |
| 110 | 5550 |
| 118 | 5590 |
| 126 | 5630 |
| 134 | 5670 |

| 802.11ac VHT80 Mode | |
|----------------------------|-----------|
| channel | Frequency |
| 106 | 5530 |
| 122 | 5610 |

Operated band in 5725 MHz ~5850 MHz:

| 802.11a / n HT20 Mode, 802.11ac VHT20 Mode | |
|---|-----------|
| Channel | Frequency |
| 149 | 5745 |
| 153 | 5765 |
| 157 | 5785 |
| 161 | 5805 |
| 165 | 5825 |

| 802.11 n HT40 Mode, 802.11ac VHT40 Mode | |
|--|-----------|
| channel | Frequency |
| 151 | 5755 |
| 159 | 5795 |

| 802.11ac VHT80 Mode | |
|----------------------------|-----------|
| channel | Frequency |
| 155 | 5775 |

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 EUT is able to transmit at main and aux antenna port but the two ports are not able to transmit at same time.
5. Pre-scanned was done on the two antenna ports and **Aux** antenna port results higher emission at 5GHz. Therefore the completed set of measurement was done on **Aux** antenna port.
6. Pre-scanned was done on external antenna: 6LNA14000020 and antenna A9702456, and antenna 6LNA14000020 results higher emission at 5GHz. Therefore, the completed set of measurement was done on antenna: 6LNA14000020 to be presented on this test report.

RADIATED EMISSION TEST:

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RADIATED EMISSION TEST (BELOW 1 GHz)

| MODE | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) |
|----------------|----------------------|-------------------|----------------|------------|------------------|
| 802.11a | 5180~5240 | 36 to 48 | 36,44,48 | OFDM | 6 |
| 802.11ac_VHT80 | 5210 | 42 | 42 | OFDM | MCS0 |
| 802.11a | 5260~5320 | 52 to 64 | 52,60,64 | OFDM | 6 |
| 802.11ac_VHT80 | 5290 | 58 | 58 | OFDM | MCS0 |
| 802.11a | 5500~5720 | 100 to 140 | 100,116,140 | OFDM | 6 |
| 802.11ac_VHT80 | 5530~5690 | 106 to 138 | 106,122,138 | OFDM | MCS0 |
| 802.11a | 5745~5825 | 149 to 165 | 149,157,165 | OFDM | 6 |
| 802.11ac_VHT80 | 5775 | 155 | 155 | OFDM | MCS0 |

RADIATED EMISSION TEST (ABOVE 1 GHz)

| MODE | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) |
|----------------|----------------------|-------------------|----------------|------------|------------------|
| 802.11a | 5180~5240 | 36 to 48 | 36,44,48 | OFDM | 6 |
| 802.11n_HT20 | | | | OFDM | MCS0 |
| 802.11n_HT40 | 5190~5230 | 38 to 46 | 38,46 | OFDM | MCS0 |
| 802.11ac_VHT80 | 5210 | 42 | 42 | OFDM | MCS0 |
| 802.11a | 5260~5320 | 52 to 64 | 52,60,64 | OFDM | 6 |
| 802.11n_HT20 | | | | OFDM | MCS0 |
| 802.11n_HT40 | 5270~5310 | 54 to 62 | 54,62 | OFDM | MCS0 |
| 802.11ac_VHT80 | 5290 | 58 | 58 | OFDM | MCS0 |

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

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 E1 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) |
|--------------------------------|----------------------|-------------------|----------------|------------|------------------|
| 802.11a | 5180~5240 | 36 to 48 | 36,44,48 | OFDM | 6 |
| 802.11n_HT20 802.11ac_VHT20 | | | | OFDM | MCS0 |
| 802.11n_HT40 802.11ac_VHT40 | 5190~5230 | 38 to 46 | 38,46 | OFDM | MCS0 |
| 802.11ac_VHT80 | 5210 | 42 | 42 | OFDM | MCS0 |
| 802.11a | 5260~5320 | 52 to 64 | 52,60,64 | OFDM | 6 |
| 802.11n_HT20 802.11ac_VHT20 | | | | OFDM | MCS0 |
| 802.11n_HT40 802.11ac_VHT40 | 5270~5310 | 54 to 62 | 54,62 | OFDM | MCS0 |
| 802.11ac_VHT80 | 5290 | 58 | 58 | OFDM | MCS0 |
| 802.11a | 5500~5700 | 100 to 140 | 100,116,140 | OFDM | 6 |
| 802.11n_HT20 802.11ac_VHT20 | | | | OFDM | MCS0 |
| 802.11n_HT40 802.11ac_VHT40 | 5510~5670 | 102 to 134 | 102,110,134 | OFDM | MCS0 |
| 802.11ac_VHT80 | 5530~5610 | 106 to 122 | 106,122 | OFDM | MCS0 |
| 802.11a | 5745~5825 | 149 to 165 | 149,157,165 | OFDM | 6 |
| 802.11n_HT20 802.11ac_VHT20 | | | | OFDM | MCS0 |
| 802.11n_HT40 802.11ac_VHT40 | 5755~5795 | 151 to 159 | 151,159 | OFDM | MCS0 |
| 802.11ac_VHT80 | 5775 | 155 | 155 | OFDM | MCS0 |

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5 MEASUREMENT UNCERTAINTY

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

Radiated Spurious Emission:

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

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

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

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6 CONDUCTED EMISSION TEST

6.1 Standard Applicable

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

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

Note

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

6.2 Measurement Equipment Used

| Conducted Emission Test Site | | | | | |
|------------------------------|-------------|-----------------------|------------------|--------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMI Test Receiver | R&S | ESCI 7 | 100950 | 12/12/2015 | 12/11/2016 |
| Coaxial Cables | N/A | N30N30-1042-1 50cm | N/A | 02/07/2016 | 02/06/2017 |
| LISN | Schwarzbeck | NSLK 8127 | 8127-648 | 03/11/2016 | 03/10/2017 |
| Test Software | Farad | EZ-EMC | Ver. SGS-03A2 | N.C.R. | N.C.R. |

6.3 EUT Setup

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

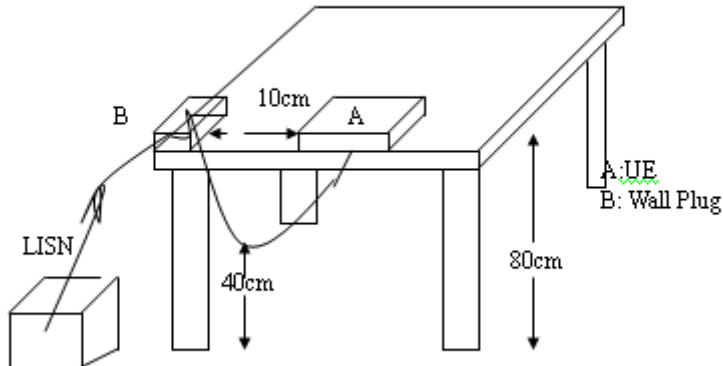
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6.4 Test SET-UP



6.5 Measurement Procedure

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

6.6 Measurement Result

N/A, the device is powered by 3.3V DC Power Supply.

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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) $=10 \cdot \log(1/\text{Duty Cycle})$ |
|-------------|----------------|---|
| 802.11a | 96.81 | 0.14 |
| 802.11n_20 | 91.93 | 0.37 |
| 802.11ac_20 | 95.36 | 0.21 |
| 802.11n_40 | 89.52 | 0.48 |
| 802.11ac_40 | 84.44 | 0.73 |
| 802.11ac_80 | 72.91 | 1.37 |

$$\text{Duty Cycle Factor: } 10 \cdot \log(1/0.9681) = 0.14$$

$$\text{Duty Cycle Factor: } 10 \cdot \log(1/0.9193) = 0.37$$

$$\text{Duty Cycle Factor: } 10 \cdot \log(1/0.9536) = 0.21$$

$$\text{Duty Cycle Factor: } 10 \cdot \log(1/0.8952) = 0.48$$

$$\text{Duty Cycle Factor: } 10 \cdot \log(1/0.8444) = 0.73$$

$$\text{Duty Cycle Factor: } 10 \cdot \log(1/0.7291) = 1.37$$

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DUTY CYCLE TEST SIGNAL Measurement Result

802.11a



802.11n HT20



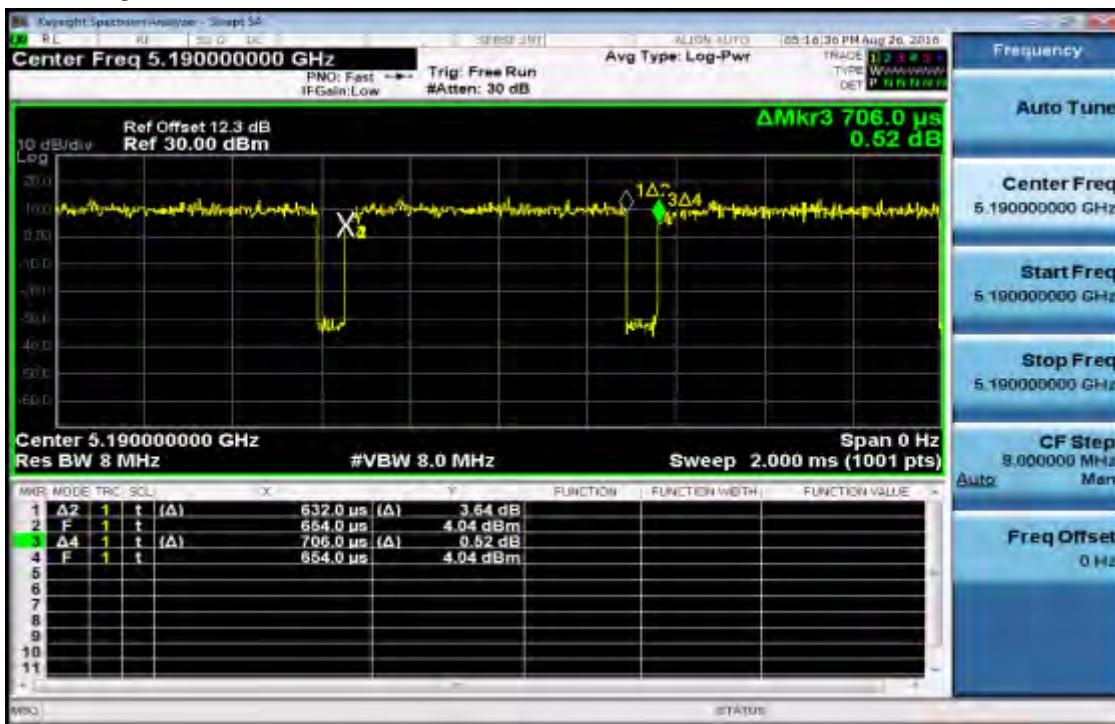
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802.11n HT 40



802.11 ac VHT 80



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8 26dB & 6dB EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

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

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

8.2 Measurement Procedure

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

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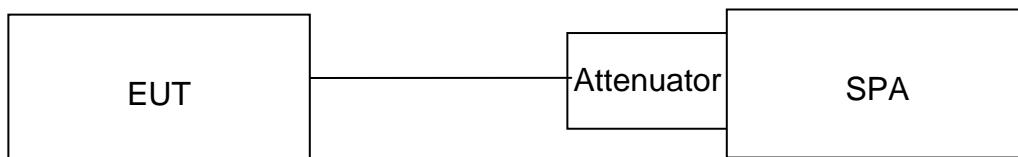
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8.3 Measurement Equipment Used

| SGS Conducted Room | | | | | |
|--------------------|--------------|----------------|---------------|------------------|-----------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due |
| Spectrum Analyzer | KEYSIGHT | N9010A | MY54510568 | 04/14/2016 | 04/13/2017 |
| Power Meter | Anritsu | ML2496A | 1326001 | 06/23/2016 | 06/22/2017 |
| Power Sensor | Anritsu | MA2411B | 1315048 | 06/23/2016 | 06/22/2017 |
| Power Sensor | Anritsu | MA2411B | 1315049 | 06/23/2016 | 06/22/2017 |
| Coaxial Cable 30cm | WOKEN | 00100A1F1A195C | RF01 | 12/12/2015 | 12/11/2016 |
| DC Block | PASTERNACK | PE8210 | RF29 | 12/12/2015 | 12/11/2016 |
| Attenuator | WOKEN | 218FS-10 | RF23 | 12/12/2015 | 12/11/2016 |
| DC Power Supply | Agilent | E3640A | MY53140006 | 05/04/2016 | 05/03/2017 |

8.4 Test Set-up



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8.5 Measurement Result

26dB Bandwidth

802.11a_Main Antenna Port**802.11a_Aux Antenna Port**

| Frequency (MHz) | 26dB BW (MHz) | Offset | 10 Log (B) (dB) | Frequency (MHz) | 26dB BW (MHz) | Offset | 10 Log (B) (dB) |
|--------------------|---------------------|--------|--------------------|--------------------|---------------------|--------|--------------------|
| 5180 | 18.92 | 12.30 | 12.769 | 5180 | 19.02 | 12.30 | 12.792 |
| 5220 | 19.12 | 12.30 | 12.815 | 5220 | 19.30 | 12.30 | 12.856 |
| 5240 | 19.06 | 12.30 | 12.801 | 5240 | 18.92 | 12.30 | 12.770 |
| 5260 | 19.26 | 12.30 | 12.847 | 5260 | 19.61 | 12.30 | 12.926 |
| 5300 | 19.10 | 12.30 | 12.810 | 5300 | 19.51 | 12.30 | 12.903 |
| 5320 | 19.01 | 12.30 | 12.790 | 5320 | 19.06 | 12.30 | 12.801 |
| 5500 | 19.28 | 12.30 | 12.851 | 5500 | 19.27 | 12.30 | 12.848 |
| 5580 | 19.53 | 12.30 | 12.907 | 5580 | 19.05 | 12.30 | 12.799 |
| 5700 | 19.09 | 12.30 | 12.808 | 5700 | 19.28 | 12.30 | 12.852 |

802.11n_HT20_Main Antenna Port**802.11n_HT20_Aux Antenna Port**

| Frequency (MHz) | 26dB BW (MHz) | Offset | 10 Log (B) (dB) | Frequency (MHz) | 26dB BW (MHz) | Offset | 10 Log (B) (dB) |
|--------------------|---------------------|--------|--------------------|--------------------|---------------------|--------|--------------------|
| 5180 | 19.79 | 12.30 | 12.964 | 5180 | 20.04 | 12.30 | 13.019 |
| 5220 | 19.75 | 12.30 | 12.956 | 5220 | 20.16 | 12.30 | 13.045 |
| 5240 | 20.02 | 12.30 | 13.015 | 5240 | 19.82 | 12.30 | 12.971 |
| 5260 | 19.79 | 12.30 | 12.964 | 5260 | 20.06 | 12.30 | 13.024 |
| 5300 | 19.77 | 12.30 | 12.960 | 5300 | 19.90 | 12.30 | 12.989 |
| 5320 | 19.65 | 12.30 | 12.934 | 5320 | 20.32 | 12.30 | 13.079 |
| 5500 | 19.80 | 12.30 | 12.967 | 5500 | 20.06 | 12.30 | 13.022 |
| 5580 | 19.74 | 12.30 | 12.953 | 5580 | 20.22 | 12.30 | 13.059 |
| 5700 | 19.79 | 12.30 | 12.964 | 5700 | 19.90 | 12.30 | 12.987 |

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802.11n _HT40_Main Antenna Port

802.11n _HT40_Aux Antenna Port

| Frequency (MHz) | 26dB BW (MHz) | Offset | 10 Log (B) (dB) | Frequency (MHz) | 26dB BW (MHz) | Offset | 10 Log (B) (dB) |
|-----------------|---------------|--------|-----------------|-----------------|---------------|--------|-----------------|
| 5190 | 38.94 | 12.30 | 15.904 | 5190 | 39.54 | 12.30 | 15.970 |
| 5230 | 39.29 | 12.30 | 15.943 | 5230 | 39.02 | 12.30 | 15.913 |
| 5270 | 39.29 | 12.30 | 15.943 | 5270 | 39.09 | 12.30 | 15.920 |
| 5310 | 38.95 | 12.30 | 15.905 | 5310 | 39.26 | 12.30 | 15.940 |
| 5510 | 39.81 | 12.30 | 16.000 | 5510 | 39.77 | 12.30 | 15.995 |
| 5550 | 38.87 | 12.30 | 15.896 | 5550 | 39.29 | 12.30 | 15.943 |
| 5670 | 39.27 | 12.30 | 15.941 | 5670 | 39.27 | 12.30 | 15.940 |

802.11ac _VHT80_Main Antenna Port

802.11ac _VHT80_Aux Antenna Port

| Frequency (MHz) | 26dB BW (MHz) | Offset | 10 Log (B) (dB) | Frequency (MHz) | 26dB BW (MHz) | Offset | 10 Log (B) (dB) |
|-----------------|---------------|--------|-----------------|-----------------|---------------|--------|-----------------|
| 5210 | 77.42 | 12.30 | 18.889 | 5210 | 77.61 | 12.30 | 18.899 |
| 5290 | 77.40 | 12.30 | 18.887 | 5290 | 77.54 | 12.30 | 18.895 |
| 5530 | 77.57 | 12.30 | 18.897 | 5530 | 77.55 | 12.30 | 18.896 |
| 5610 | 77.60 | 12.30 | 18.899 | 5610 | 77.64 | 12.30 | 18.901 |

6dB Bandwidth (5725 MHz~ 5850 MHz)

802.11a_Main Antenna Port

802.11a_Aux Antenna Port

| Frequency (MHz) | 6dB BW (MHz) | Offset | 10 Log (B) (dB) | Frequency (MHz) | 6dB BW (MHz) | Offset | 10 Log (B) (dB) |
|-----------------|--------------|--------|-----------------|-----------------|--------------|--------|-----------------|
| 5745 | 16.39 | 12.30 | 12.146 | 5745 | 16.36 | 12.30 | 12.137 |
| 5785 | 16.35 | 12.30 | 12.135 | 5785 | 16.33 | 12.30 | 12.129 |
| 5825 | 16.39 | 12.30 | 12.146 | 5825 | 16.38 | 12.30 | 12.143 |

802.11n _HT20_Main Antenna Port

802.11n _HT20_Aux Antenna Port

| Frequency (MHz) | 6dB BW (MHz) | Offset | 10 Log (B) (dB) | Frequency (MHz) | 6dB BW (MHz) | Offset | 10 Log (B) (dB) |
|-----------------|--------------|--------|-----------------|-----------------|--------------|--------|-----------------|
| 5745 | 17.58 | 12.30 | 12.450 | 5745 | 17.63 | 12.30 | 12.462 |
| 5785 | 17.31 | 12.30 | 12.383 | 5785 | 17.38 | 12.30 | 12.399 |
| 5825 | 17.43 | 12.30 | 12.413 | 5825 | | 12.30 | #NUM! |

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802.11n_HT40_Main Antenna Port

802.11n_HT40_Aux Antenna Port

| Frequency (MHz) | 6dB BW (MHz) | Offset | 10 Log (B) (dB) | Frequency (MHz) | 6dB BW (MHz) | Offset | 10 Log (B) (dB) |
|--------------------|--------------------|--------|--------------------|--------------------|--------------------|--------|--------------------|
| 5755 | 35.74 | 12.30 | 15.532 | 5755 | 35.75 | 12.30 | 15.533 |
| 5795 | 35.49 | 12.30 | 15.501 | 5795 | 35.78 | 12.30 | 15.537 |

802.11ac_VHT80_Main Antenna Port

802.11ac_VHT80_Aux Antenna Port

| Frequency (MHz) | 6dB BW (MHz) | Offset | 10 Log (B) (dB) | Frequency (MHz) | 6dB BW (MHz) | Offset | 10 Log (B) (dB) |
|--------------------|--------------------|--------|--------------------|--------------------|--------------------|--------|--------------------|
| 5775 | 73.83 | 12.30 | 18.682 | 5775 | 75.11 | 12.30 | 18.757 |

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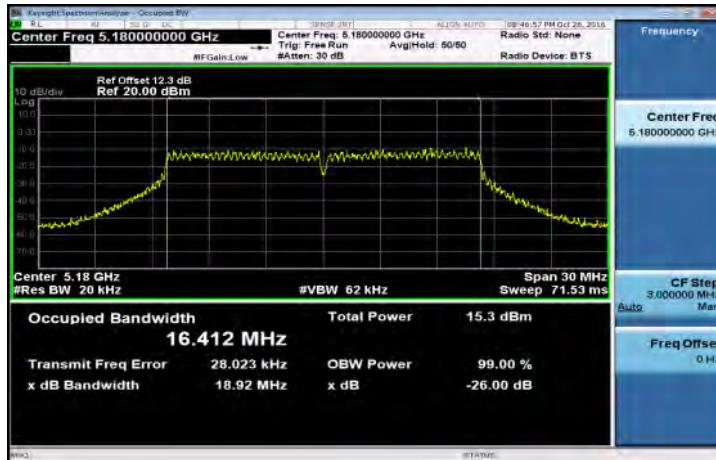
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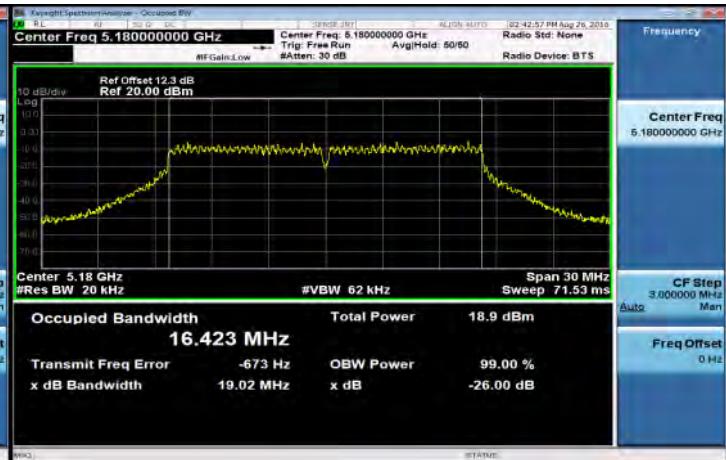
802.11a, 5150~5250 MHz (Main)

26dB Band Width Test Data CH-Low (5180MHz)

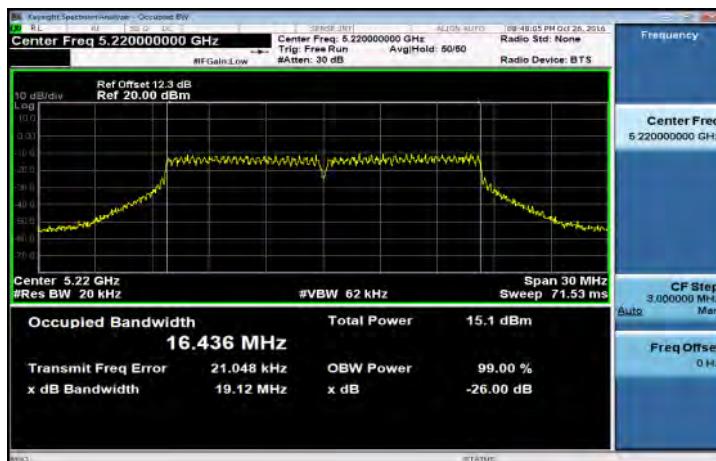


802.11a, 5150~5250 MHz (Aux)

26dB Band Width Test Data CH-Low (5180MHz)



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



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



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



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



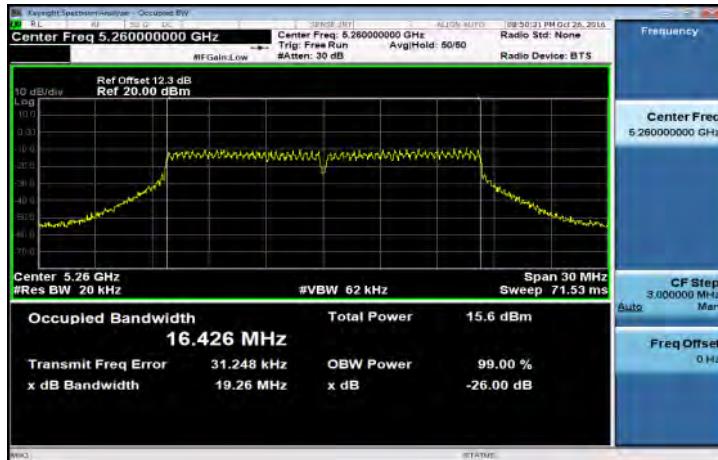
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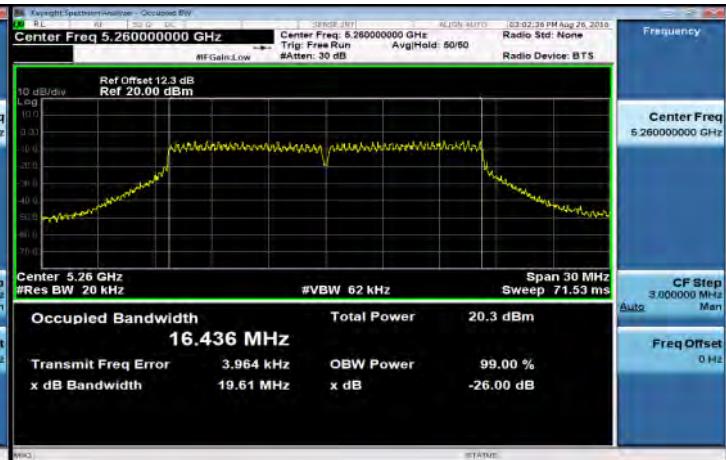
802.11a, 5250~5350 MHz (Main)

26dB Band Width Test Data CH-Low (5260MHz)



802.11a, 5250~5350 MHz (Aux)

26dB Band Width Test Data CH-Low (5260MHz)



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

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



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

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



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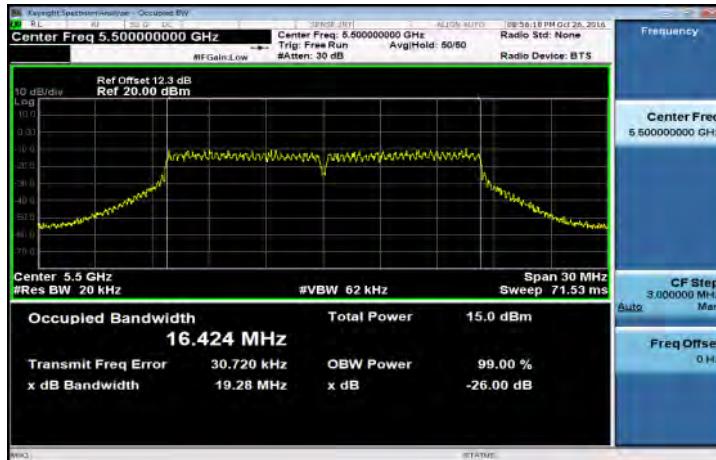
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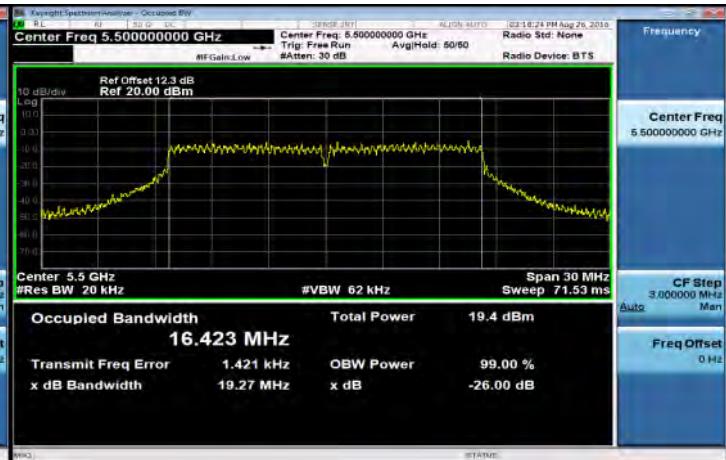
802.11a, 5470~5725 MHz (Main)

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



802.11a, 5470~5725 MHz (Aux)

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



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

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



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

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



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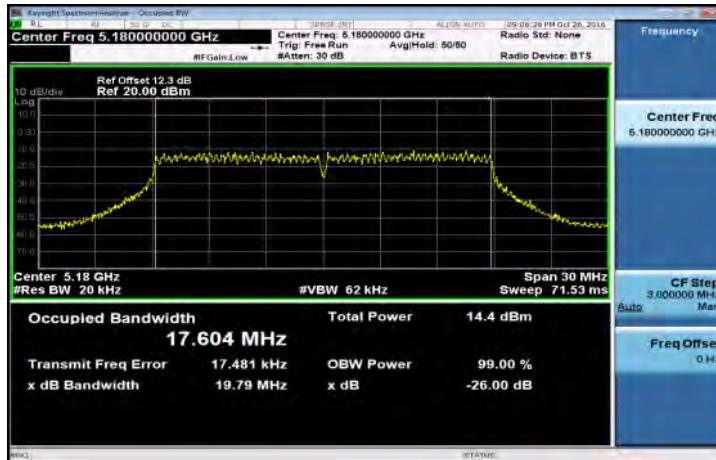
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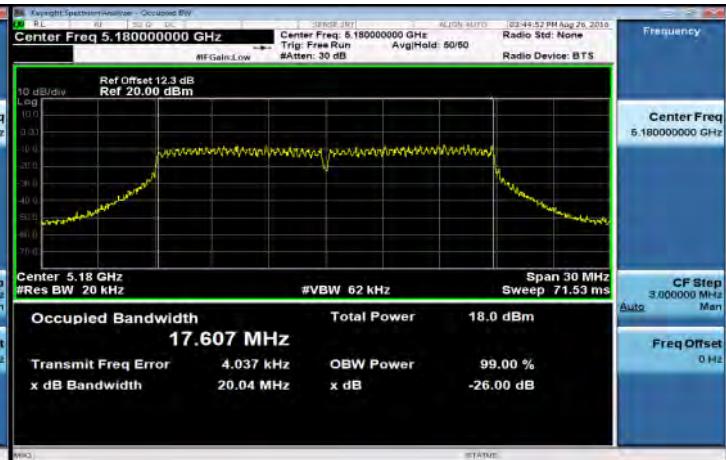
802.11n HT20, 5150~5250 MHz (Main)

26dB Band Width Test Data CH-Low (5180 MHz)

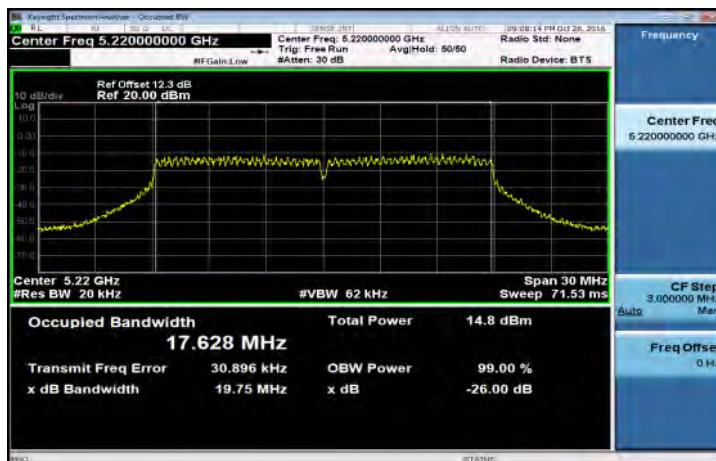


802.11n HT20, 5150~5250 MHz (Aux)

26dB Band Width Test Data CH-Low (5180 MHz)



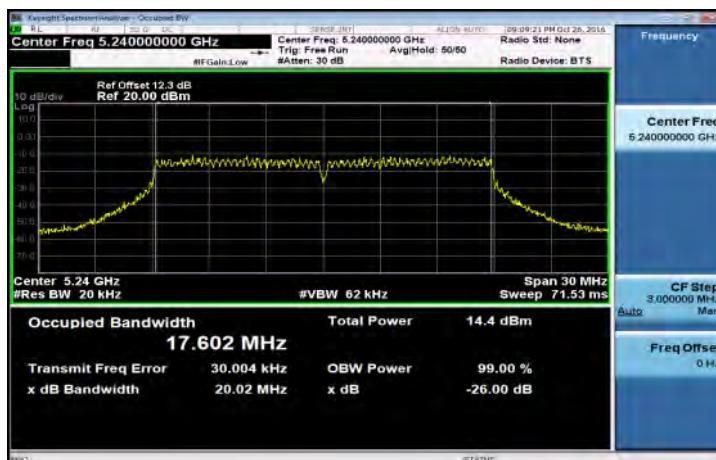
26dB Band Width Test Data CH-Mid (5220 MHz)



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



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



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



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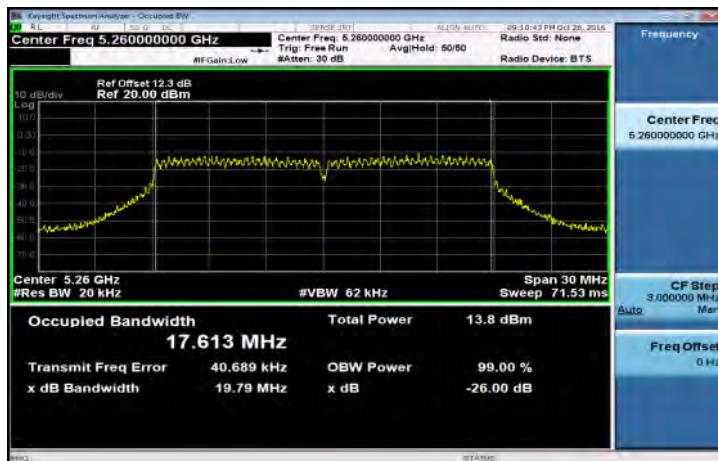
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802.11n HT20, 5250~5350 MHz (Main)

26dB Band Width Test Data CH-Low (5260 MHz)



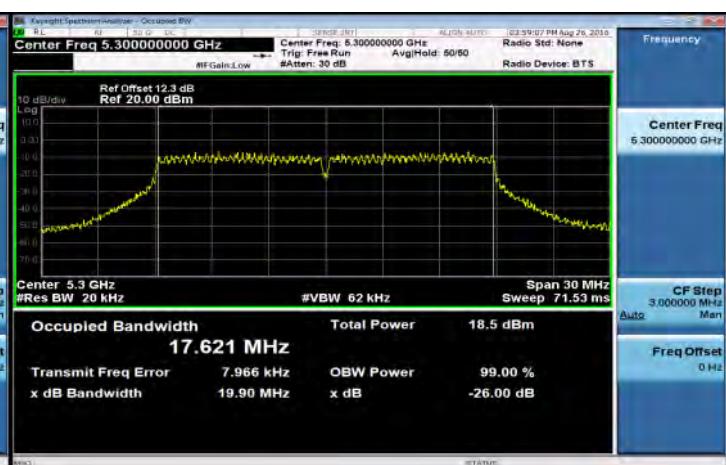
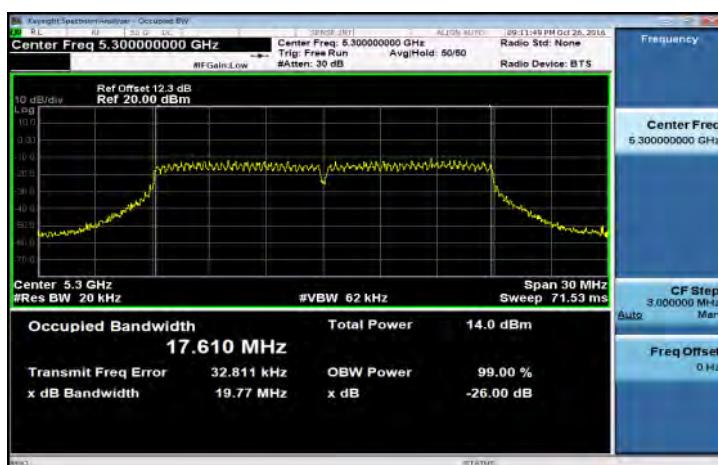
802.11n HT20, 5250~5350 MHz (Aux)

26dB Band Width Test Data CH-Low (5260 MHz)



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

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



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

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



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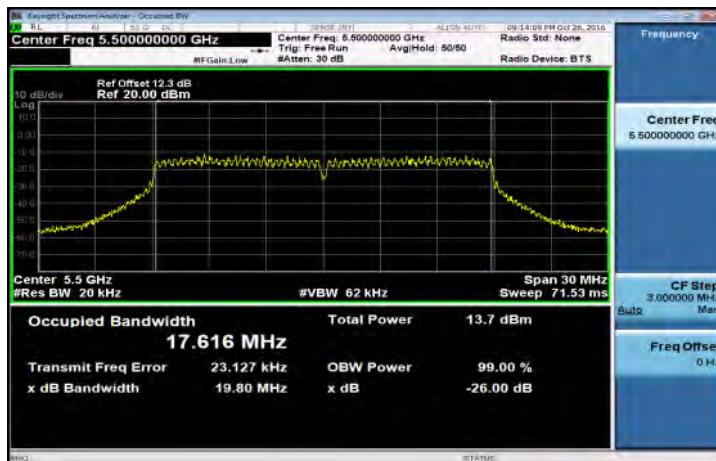
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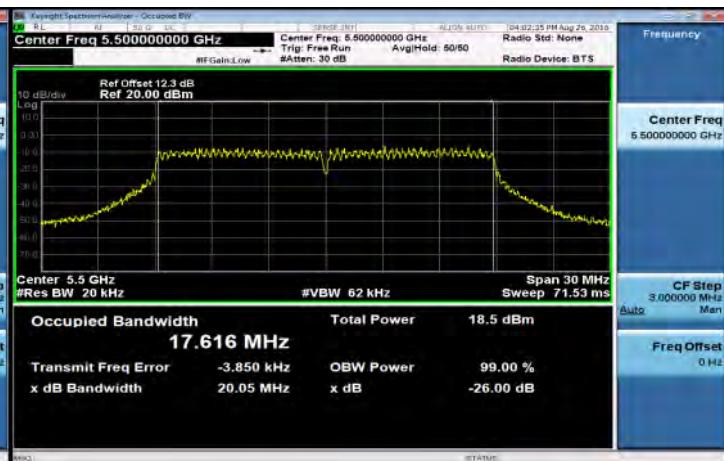
802.11n HT20, 5470~5725 MHz (Main)

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



802.11n HT20, 5470~5725 MHz (Aux)

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



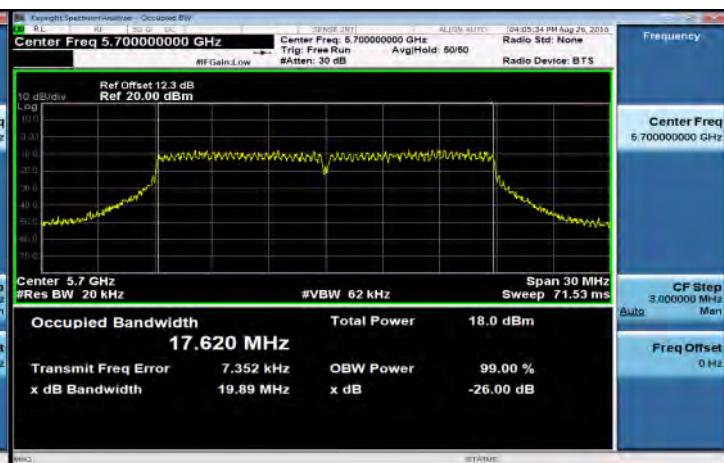
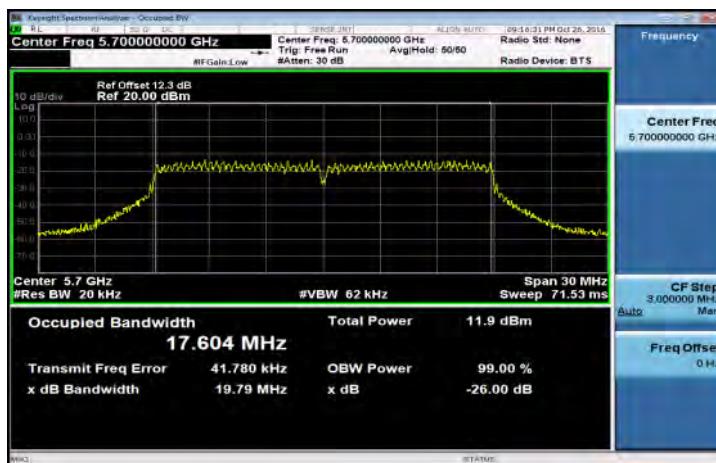
26dB Band Width Test Data CH-Mid (5580 MHz)

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



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

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



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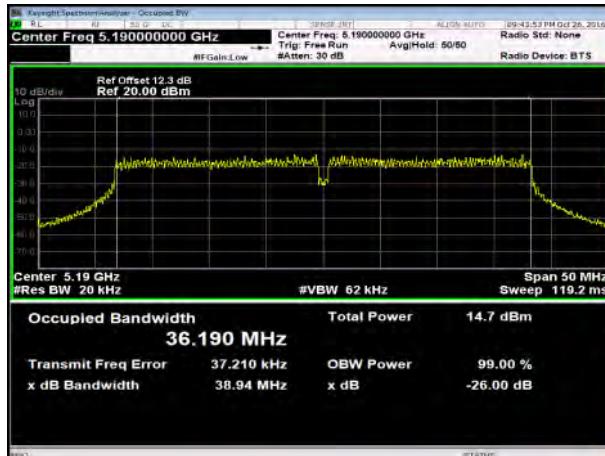
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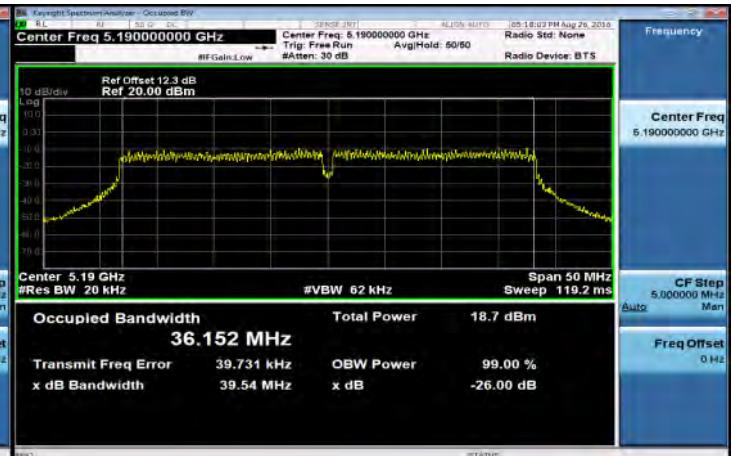
802.11n HT40, 5150~5250 MHz (Main)

26dB Band Width Test Data CH-Low (5190 MHz)



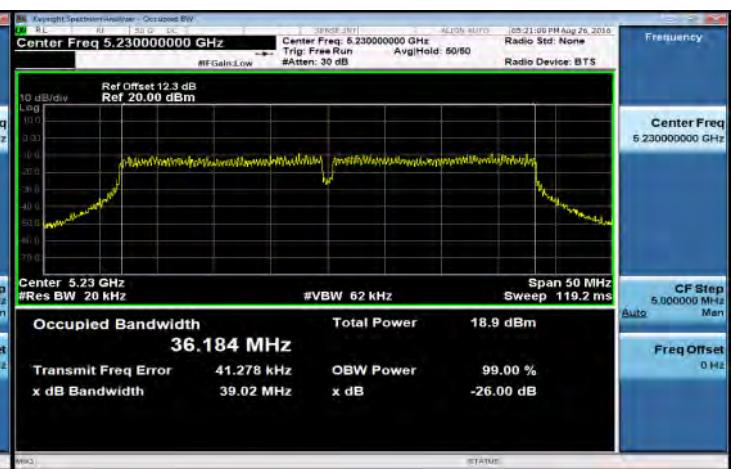
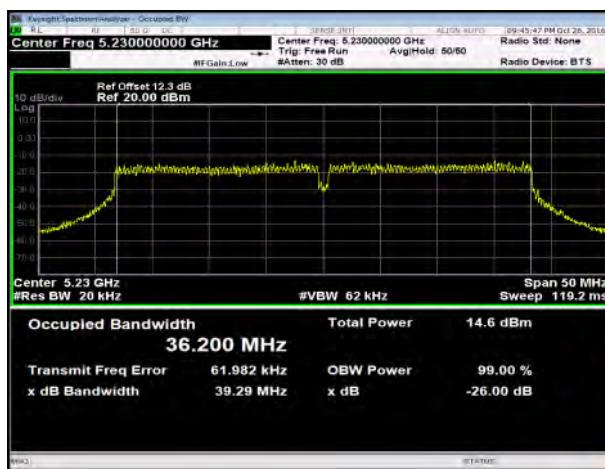
802.11n HT40, 5150~5250 MHz (Aux)

26dB Band Width Test Data CH-Low (5190 MHz)



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

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



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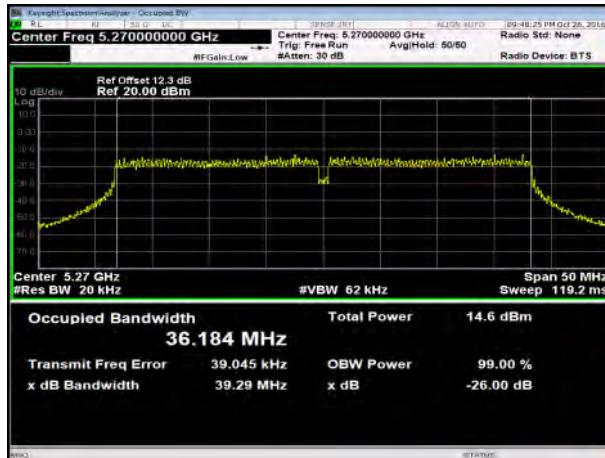
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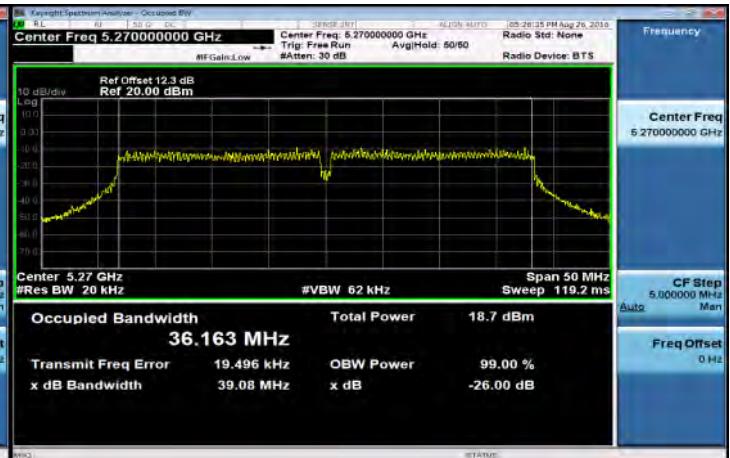
802.11n HT40, 5250~5350 MHz (Main)

26dB Band Width Test Data CH-Low (5270 MHz)



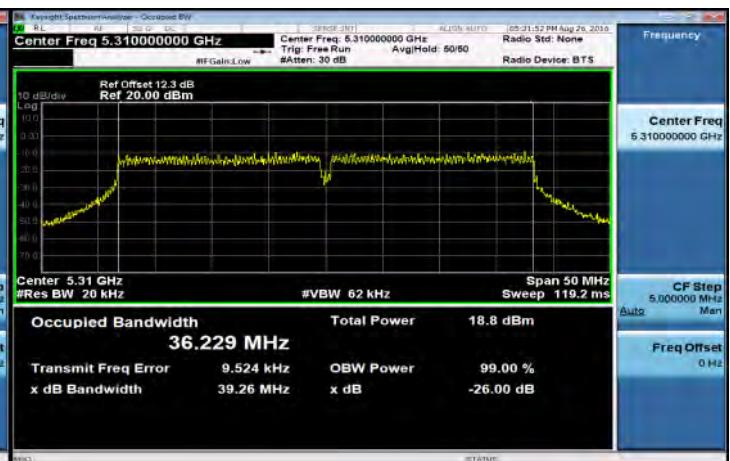
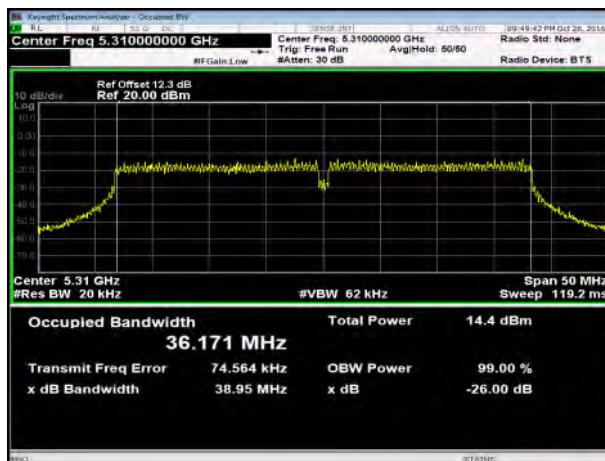
802.11n HT40, 5250~5350 MHz (Aux)

26dB Band Width Test Data CH-Low (5270 MHz)



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

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



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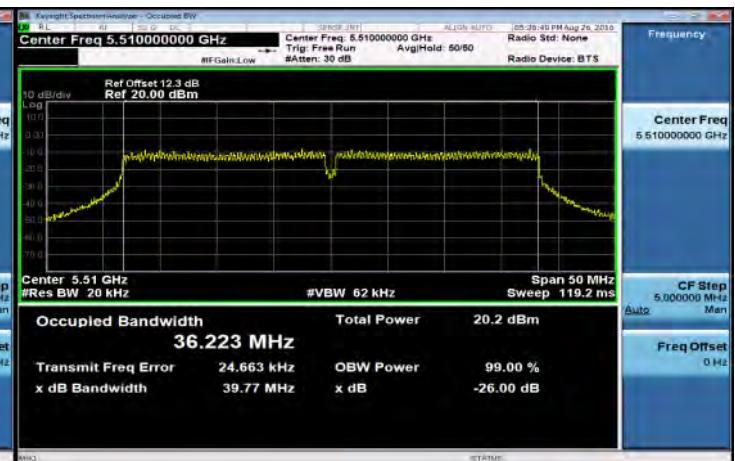
802.11n HT40, 5470~5725 MHz (Main)

26dB Band Width Test Data CH-Low (5510 MHz)



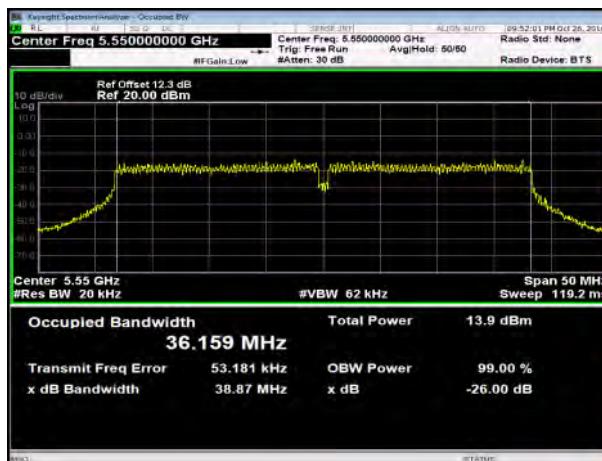
802.11n HT40, 5470~5725 MHz (Aux)

26dB Band Width Test Data CH-Low (5510 MHz)



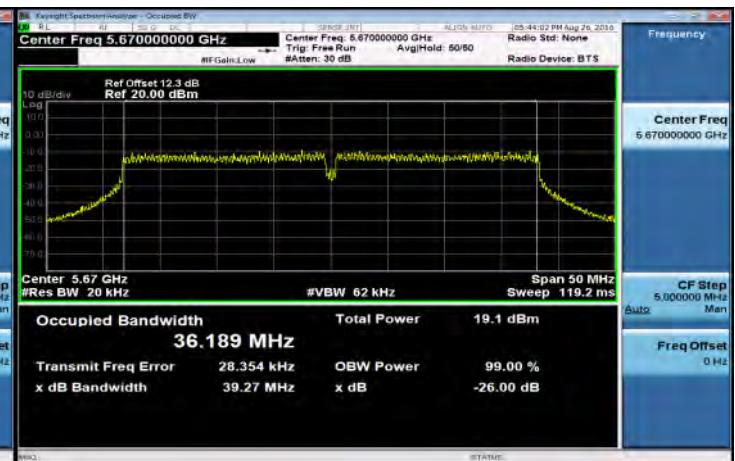
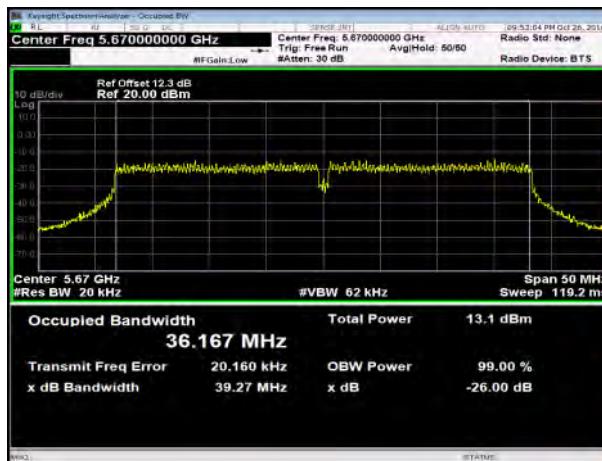
26dB Band Width Test Data CH-Mid (5550 MHz)

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



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

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



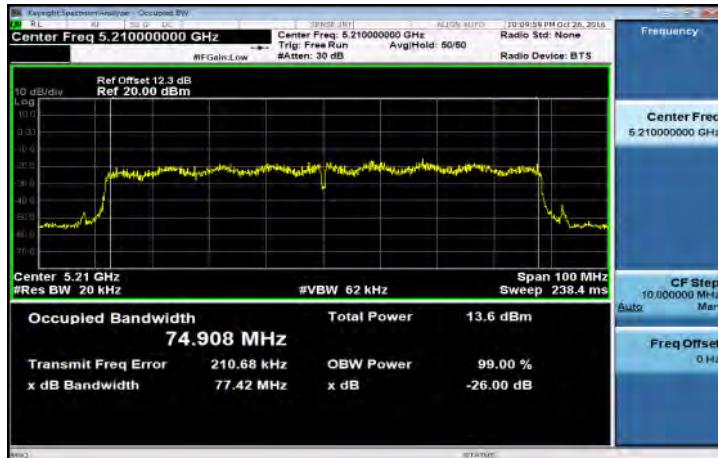
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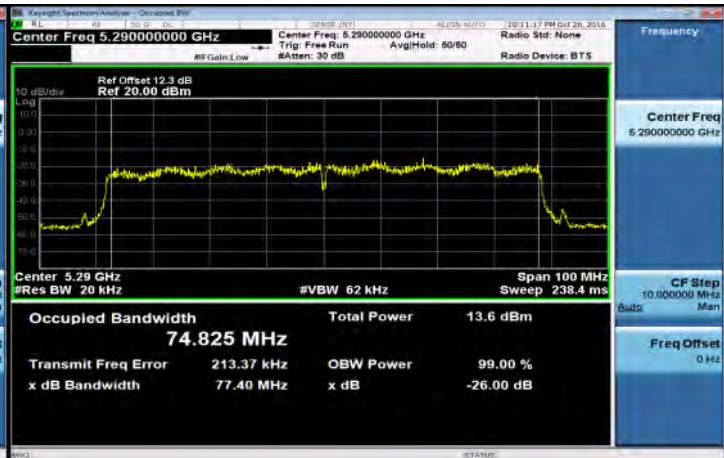
802.11ac VHT80, 5150~5250 MHz (Main)

26dB Band Width Test Data CH-Mid (5210 MHz)



802.11ac VHT80, 5250~5350 MHz (Main)

26dB Band Width Test Data CH-Mid (5290 MHz)



802.11ac VHT80, 5150~5250 MHz (Aux)

26dB Band Width Test Data CH-Mid (5210 MHz)



802.11ac VHT80, 5250~5350 MHz (Aux)

26dB Band Width Test Data CH-Mid (5290 MHz)



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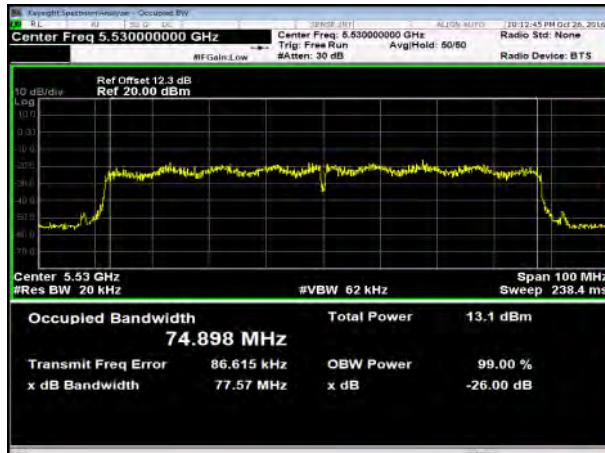
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802.11ac VHT80, 5470~5725 MHz (Main)

26dB Band Width Test Data CH-Low (5530 MHz)



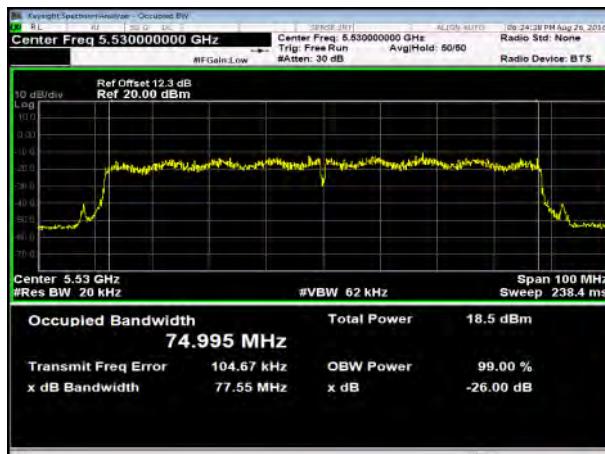
802.11ac VHT80, 5470~5725 MHz (Main)

26dB Band Width Test Data CH-High (5610 MHz)



802.11ac VHT80, 5470~5725 MHz (Aux)

26dB Band Width Test Data CH-Low (5530 MHz)



802.11ac VHT80, 5470~5725 MHz (Aux)

26dB Band Width Test Data CH-High (5610 MHz)



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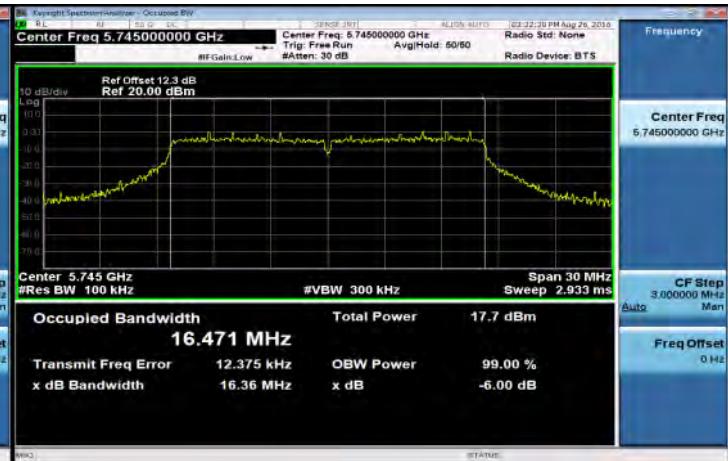
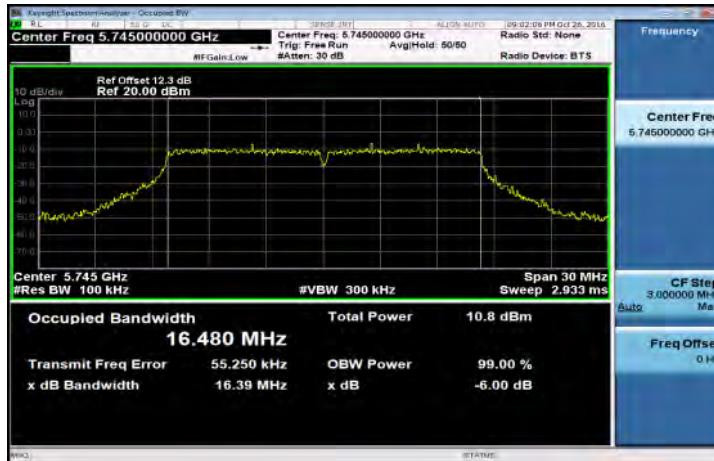
6dB Band Width

802.11a, 5725~5850 MHz (Main)

802.11a, 5725~5850 MHz (Aux)

6dB Band Width Test Data CH-Low (5745 MHz)

6dB Band Width Test Data CH-Low (5745 MHz)



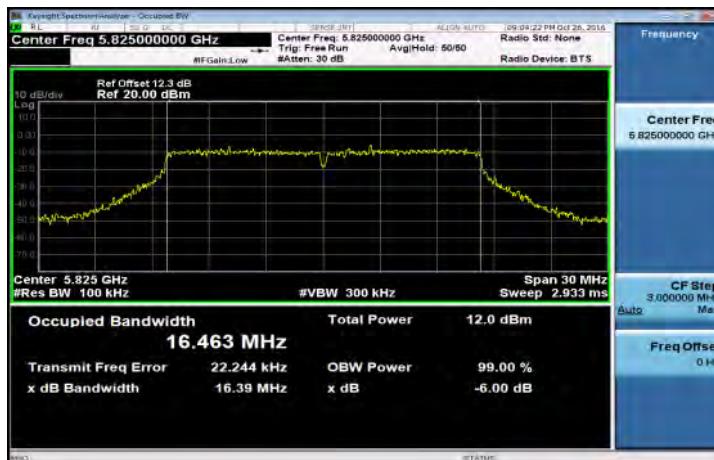
6dB Band Width Test Data CH-Mid (5785 MHz)

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



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

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



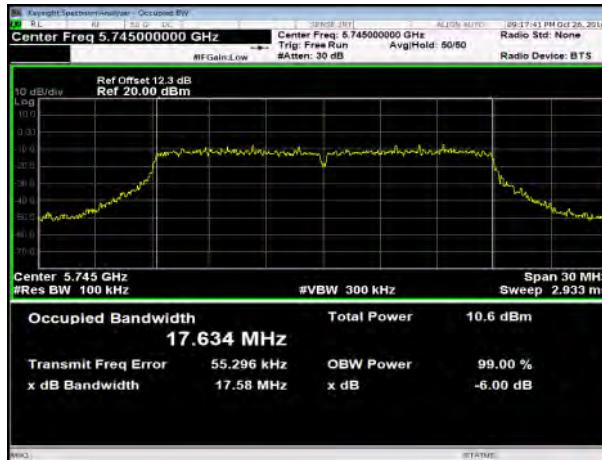
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802.11n_HT20, 5725~5850 MHz (Main)

6dB Band Width Test Data CH-Low (5745 MHz)

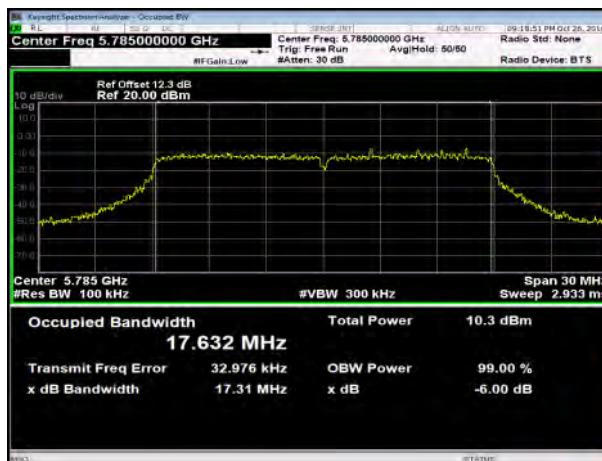


802.11n_HT20, 5725~5850 MHz (Aux)

6dB Band Width Test Data CH-Low (5745 MHz)



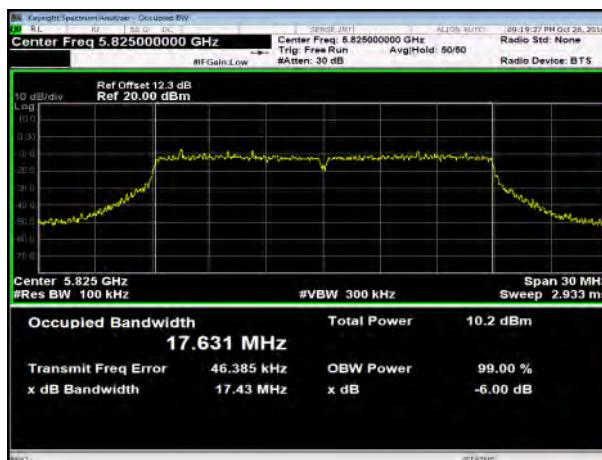
6dB Band Width Test Data CH-Mid (5785 MHz)



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



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



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



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802.11n_HT40, 5725~5850 MHz (Main)

802.11n_HT40, 5725~5850 MHz (Aux)

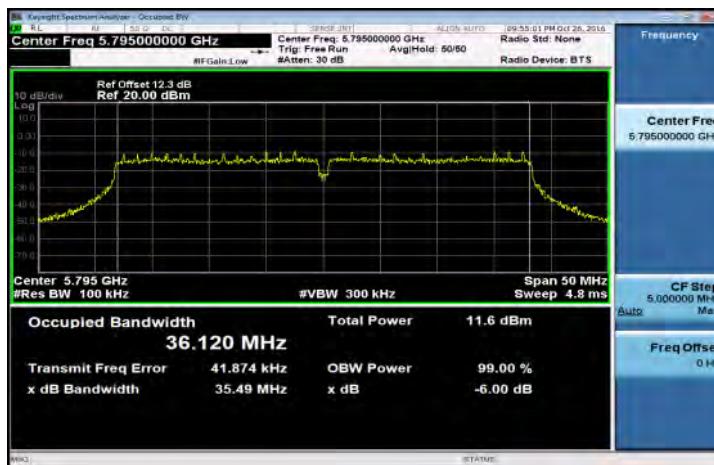
6dB Band Width Test Data CH-Low (5755 MHz)

6dB Band Width Test Data CH-Low (5755 MHz)



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

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



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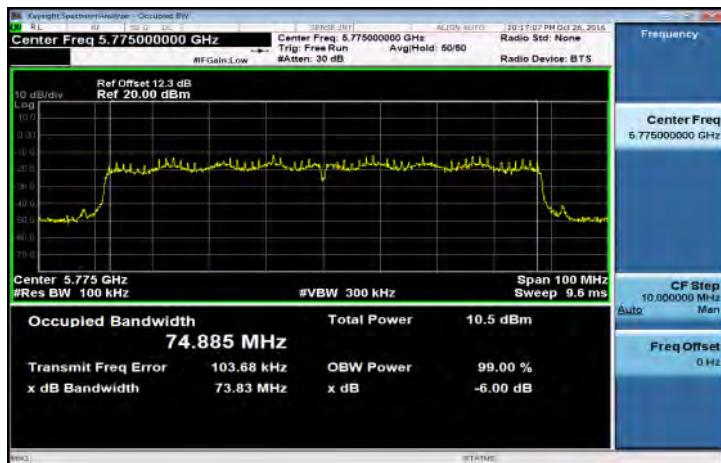
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802.11ac VHT80, 5725~5850 MHz (Main)

6dB Band Width Test Data CH-Low (5775 MHz)



802.11ac VHT80, 5725~5850 MHz (Aux)

6dB Band Width Test Data CH-Low (5775 MHz)



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9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

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

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

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 v01r01.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add 10 log(1/duty cycle).
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

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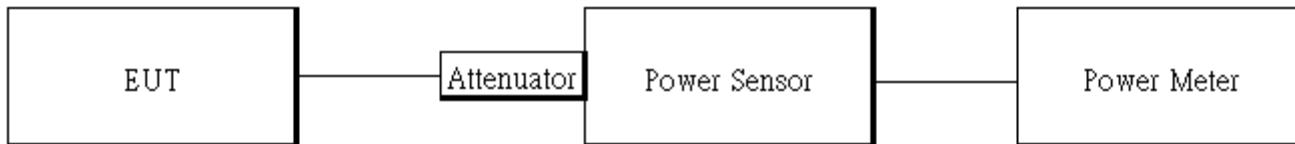
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9.3 Measurement Equipment Used

| SGS Conducted Room | | | | | |
|--------------------|--------------|----------------|---------------|------------------|-----------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due |
| Spectrum Analyzer | KEYSIGHT | N9010A | MY54510568 | 04/14/2016 | 04/13/2017 |
| Power Meter | Anritsu | ML2496A | 1326001 | 06/23/2016 | 06/22/2017 |
| Power Sensor | Anritsu | MA2411B | 1315048 | 06/23/2016 | 06/22/2017 |
| Power Sensor | Anritsu | MA2411B | 1315049 | 06/23/2016 | 06/22/2017 |
| Coaxial Cable 30cm | WOKEN | 00100A1F1A195C | RF01 | 12/12/2015 | 12/11/2016 |
| DC Block | PASTERNAK | PE8210 | RF29 | 12/12/2015 | 12/11/2016 |
| Attenuator | WOKEN | 218FS-10 | RF23 | 12/12/2015 | 12/11/2016 |
| DC Power Supply | Agilent | E3640A | MY53140006 | 05/04/2016 | 05/03/2017 |

9.4 Test Set-up



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9.5 Measurement Result

Conducted output power

802.11a_Main Antenna Port

| CH | Frequency (MHz) | Data Rate | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-------------------|------------------|---------------------------------|--------|
| 36 | 5180 | MCS0 | 12.77 | 18.923 | 23.98 | PASS |
| 44 | 5220 | MCS0 | 12.76 | 18.880 | 23.98 | PASS |
| 48 | 5240 | MCS0 | 12.63 | 18.323 | 23.98 | PASS |
| 52 | 5260 | MCS0 | 12.82 | 19.143 | 23.98 or $11+10\log(B) = 23.85$ | PASS |
| 60 | 5300 | MCS0 | 12.78 | 18.967 | 23.98 or $11+10\log(B) = 23.81$ | PASS |
| 64 | 5320 | MCS0 | 12.73 | 18.750 | 23.98 or $11+10\log(B) = 23.79$ | PASS |
| 100 | 5500 | MCS0 | 12.76 | 18.880 | 23.98 or $11+10\log(B) = 23.85$ | PASS |
| 116 | 5580 | MCS0 | 12.81 | 19.099 | 23.98 or $11+10\log(B) = 23.91$ | PASS |
| 140 | 5700 | MCS0 | 12.80 | 19.055 | 23.98 or $11+10\log(B) = 23.81$ | PASS |
| 149 | 5745 | MCS0 | 12.79 | 19.011 | 30 | PASS |
| 157 | 5785 | MCS0 | 12.79 | 19.011 | 30 | PASS |
| 165 | 5825 | MCS0 | 12.83 | 19.187 | 30 | PASS |

802.11a_Aux Antenna Port

| CH | Frequency (MHz) | Data Rate | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-------------------|------------------|---------------------------------|--------|
| 36 | 5180 | MCS0 | 12.98 | 19.861 | 23.98 | PASS |
| 44 | 5220 | MCS0 | 12.94 | 19.679 | 23.98 | PASS |
| 48 | 5240 | MCS0 | 12.84 | 19.231 | 23.98 | PASS |
| 52 | 5260 | MCS0 | 12.96 | 19.770 | 23.98 or $11+10\log(B) = 23.93$ | PASS |
| 60 | 5300 | MCS0 | 12.94 | 19.679 | 23.98 or $11+10\log(B) = 23.90$ | PASS |
| 64 | 5320 | MCS0 | 12.91 | 19.543 | 23.98 or $11+10\log(B) = 23.80$ | PASS |
| 100 | 5500 | MCS0 | 12.96 | 19.770 | 23.98 or $11+10\log(B) = 23.85$ | PASS |
| 116 | 5580 | MCS0 | 12.95 | 19.724 | 23.98 or $11+10\log(B) = 23.80$ | PASS |
| 140 | 5700 | MCS0 | 12.97 | 19.815 | 23.98 or $11+10\log(B) = 23.85$ | PASS |
| 149 | 5745 | MCS0 | 12.96 | 19.770 | 30 | PASS |
| 157 | 5785 | MCS0 | 12.94 | 19.679 | 30 | PASS |
| 165 | 5825 | MCS0 | 12.96 | 19.770 | 30 | PASS |

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802.11n_HT20_Main Antenna Port

| CH | Frequency (MHz) | Data Rate | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-------------------|------------------|---------------------------------|--------|
| 36 | 5180 | MCS0 | 11.61 | 14.488 | 23.98 | PASS |
| 44 | 5220 | MCS0 | 11.78 | 15.066 | 23.98 | PASS |
| 48 | 5240 | MCS0 | 11.80 | 15.136 | 23.98 | PASS |
| 52 | 5260 | MCS0 | 11.71 | 14.825 | 23.98 or $11+10\log(B) = 23.96$ | PASS |
| 60 | 5300 | MCS0 | 11.75 | 14.962 | 23.98 or $11+10\log(B) = 23.96$ | PASS |
| 64 | 5320 | MCS0 | 11.68 | 14.723 | 23.98 or $11+10\log(B) = 23.93$ | PASS |
| 100 | 5500 | MCS0 | 11.74 | 14.928 | 23.98 or $11+10\log(B) = 23.97$ | PASS |
| 116 | 5580 | MCS0 | 11.75 | 14.962 | 23.98 or $11+10\log(B) = 23.95$ | PASS |
| 140 | 5700 | MCS0 | 11.80 | 15.136 | 23.98 or $11+10\log(B) = 23.96$ | PASS |
| 149 | 5745 | MCS0 | 11.76 | 14.997 | 30 | PASS |
| 157 | 5785 | MCS0 | 11.71 | 14.825 | 30 | PASS |
| 165 | 5825 | MCS0 | 11.75 | 14.962 | 30 | PASS |

802.11n_HT20_Aux Antenna Port

| CH | Frequency (MHz) | Data Rate | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-------------------|------------------|---------------------------------|--------|
| 36 | 5180 | MCS0 | 11.83 | 15.241 | 23.98 | PASS |
| 44 | 5220 | MCS0 | 11.94 | 15.631 | 23.98 | PASS |
| 48 | 5240 | MCS0 | 11.95 | 15.668 | 23.98 | PASS |
| 52 | 5260 | MCS0 | 11.89 | 15.453 | 23.98 or $11+10\log(B) = 24.02$ | PASS |
| 60 | 5300 | MCS0 | 11.97 | 15.740 | 23.98 or $11+10\log(B) = 23.99$ | PASS |
| 64 | 5320 | MCS0 | 11.84 | 15.276 | 23.98 or $11+10\log(B) = 24.08$ | PASS |
| 100 | 5500 | MCS0 | 11.96 | 15.704 | 23.98 or $11+10\log(B) = 24.02$ | PASS |
| 116 | 5580 | MCS0 | 11.92 | 15.560 | 23.98 or $11+10\log(B) = 24.06$ | PASS |
| 140 | 5700 | MCS0 | 11.95 | 15.668 | 23.98 or $11+10\log(B) = 23.99$ | PASS |
| 149 | 5745 | MCS0 | 11.98 | 15.776 | 30 | PASS |
| 157 | 5785 | MCS0 | 11.86 | 15.346 | 30 | PASS |
| 165 | 5825 | MCS0 | 11.93 | 15.596 | 30 | PASS |

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802.11n_HT40_Main Antenna Port

| CH | Frequency (MHz) | Data Rate | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-------------------|------------------|---------------------------------|--------|
| 38 | 5190 | MCS0 | 11.79 | 15.101 | 23.98 | PASS |
| 46 | 5230 | MCS0 | 11.76 | 14.997 | 23.98 | PASS |
| 54 | 5270 | MCS0 | 11.79 | 15.101 | 23.98 or $11+10\log(B) = 26.94$ | PASS |
| 62 | 5310 | MCS0 | 11.58 | 14.388 | 23.98 or $11+10\log(B) = 26.91$ | PASS |
| 102 | 5510 | MCS0 | 11.75 | 14.962 | 23.98 or $11+10\log(B) = 27.00$ | PASS |
| 110 | 5550 | MCS0 | 11.65 | 14.622 | 23.98 or $11+10\log(B) = 26.90$ | PASS |
| 134 | 5670 | MCS0 | 11.79 | 15.101 | 23.98 or $11+10\log(B) = 26.94$ | PASS |
| 151 | 5755 | MCS0 | 11.78 | 15.066 | 30 | PASS |
| 159 | 5795 | MCS0 | 11.79 | 15.101 | 30 | PASS |

802.11n_HT40_Aux Antenna Port

| CH | Frequency (MHz) | Data Rate | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-------------------|------------------|---------------------------------|--------|
| 38 | 5190 | MCS0 | 11.98 | 15.776 | 23.98 | PASS |
| 46 | 5230 | MCS0 | 11.93 | 15.596 | 23.98 | PASS |
| 54 | 5270 | MCS0 | 11.97 | 15.740 | 23.98 or $11+10\log(B) = 26.92$ | PASS |
| 62 | 5310 | MCS0 | 11.75 | 14.962 | 23.98 or $11+10\log(B) = 26.94$ | PASS |
| 102 | 5510 | MCS0 | 11.96 | 15.704 | 23.98 or $11+10\log(B) = 27.00$ | PASS |
| 110 | 5550 | MCS0 | 11.81 | 15.171 | 23.98 or $11+10\log(B) = 26.94$ | PASS |
| 134 | 5670 | MCS0 | 11.98 | 15.776 | 23.98 or $11+10\log(B) = 26.94$ | PASS |
| 151 | 5755 | MCS0 | 11.94 | 15.631 | 30 | PASS |
| 159 | 5795 | MCS0 | 11.96 | 15.704 | 30 | PASS |

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802.11ac_VHT20_Main Antenna Port

| CH | Frequency (MHz) | Data Rate | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-------------------|------------------|---------------------------------|--------|
| 36 | 5180 | MCS0 | 11.39 | 13.772 | 23.98 | PASS |
| 44 | 5220 | MCS0 | 11.62 | 14.521 | 23.98 | PASS |
| 48 | 5240 | MCS0 | 11.61 | 14.488 | 23.98 | PASS |
| 52 | 5260 | MCS0 | 11.49 | 14.093 | 23.98 or $11+10\log(B) =$ 24.08 | PASS |
| 60 | 5300 | MCS0 | 11.65 | 14.622 | 23.98 or $11+10\log(B) =$ 23.94 | PASS |
| 64 | 5320 | MCS0 | 11.50 | 14.125 | 23.98 or $11+10\log(B) =$ 24.06 | PASS |
| 100 | 5500 | MCS0 | 11.62 | 14.521 | 23.98 or $11+10\log(B) =$ 23.96 | PASS |
| 116 | 5580 | MCS0 | 11.59 | 14.421 | 23.98 or $11+10\log(B) =$ 23.98 | PASS |
| 140 | 5700 | MCS0 | 11.63 | 14.555 | 23.98 or $11+10\log(B) =$ 24.00 | PASS |
| 149 | 5745 | MCS0 | 11.69 | 14.757 | 30 | PASS |
| 157 | 5785 | MCS0 | 11.55 | 14.289 | 30 | PASS |
| 165 | 5825 | MCS0 | 11.59 | 14.421 | 30 | PASS |

802.11ac_VHT20_Aux Antenna Port

| CH | Frequency (MHz) | Data Rate | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-------------------|------------------|---------------------------------|--------|
| 36 | 5180 | MCS0 | 11.69 | 14.757 | 23.98 | PASS |
| 44 | 5220 | MCS0 | 11.80 | 15.136 | 23.98 | PASS |
| 48 | 5240 | MCS0 | 11.83 | 15.241 | 23.98 | PASS |
| 52 | 5260 | MCS0 | 11.77 | 15.031 | 23.98 or $11+10\log(B) =$ 24.06 | PASS |
| 60 | 5300 | MCS0 | 11.82 | 15.205 | 23.98 or $11+10\log(B) =$ 24.00 | PASS |
| 64 | 5320 | MCS0 | 11.69 | 14.757 | 23.98 or $11+10\log(B) =$ 24.05 | PASS |
| 100 | 5500 | MCS0 | 11.82 | 15.205 | 23.98 or $11+10\log(B) =$ 24.03 | PASS |
| 116 | 5580 | MCS0 | 11.79 | 15.101 | 23.98 or $11+10\log(B) =$ 23.99 | PASS |
| 140 | 5700 | MCS0 | 11.80 | 15.136 | 23.98 or $11+10\log(B) =$ 23.96 | PASS |
| 149 | 5745 | MCS0 | 11.85 | 15.311 | 30 | PASS |
| 157 | 5785 | MCS0 | 11.75 | 14.962 | 30 | PASS |
| 165 | 5825 | MCS0 | 11.81 | 15.171 | 30 | PASS |

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802.11ac_VHT40_Main Antenna Port

| CH | Frequency (MHz) | Data Rate | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-------------------|------------------|---------------------------------|--------|
| 38 | 5190 | MCS0 | 11.53 | 14.223 | 23.98 | PASS |
| 46 | 5230 | MCS0 | 11.56 | 14.322 | 23.98 | PASS |
| 54 | 5270 | MCS0 | 11.57 | 14.355 | 23.98 or $11+10\log(B) = 26.92$ | PASS |
| 62 | 5310 | MCS0 | 11.41 | 13.836 | 23.98 or $11+10\log(B) = 26.94$ | PASS |
| 102 | 5510 | MCS0 | 11.65 | 14.622 | 23.98 or $11+10\log(B) = 26.93$ | PASS |
| 110 | 5550 | MCS0 | 11.51 | 14.158 | 23.98 or $11+10\log(B) = 26.96$ | PASS |
| 134 | 5670 | MCS0 | 11.64 | 14.588 | 23.98 or $11+10\log(B) = 26.96$ | PASS |
| 151 | 5755 | MCS0 | 11.59 | 14.421 | 30 | PASS |
| 159 | 5795 | MCS0 | 11.63 | 14.555 | 30 | PASS |

802.11ac_VHT40_Aux Antenna Port

| CH | Frequency (MHz) | Data Rate | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-------------------|------------------|---------------------------------|--------|
| 38 | 5190 | MCS0 | 11.76 | 14.997 | 23.98 | PASS |
| 46 | 5230 | MCS0 | 11.83 | 15.241 | 23.98 | PASS |
| 54 | 5270 | MCS0 | 11.81 | 15.171 | 23.98 or $11+10\log(B) = 26.96$ | PASS |
| 62 | 5310 | MCS0 | 11.68 | 14.723 | 23.98 or $11+10\log(B) = 26.96$ | PASS |
| 102 | 5510 | MCS0 | 11.80 | 15.136 | 23.98 or $11+10\log(B) = 26.94$ | PASS |
| 110 | 5550 | MCS0 | 11.67 | 14.689 | 23.98 or $11+10\log(B) = 26.97$ | PASS |
| 134 | 5670 | MCS0 | 11.83 | 15.241 | 23.98 or $11+10\log(B) = 26.97$ | PASS |
| 151 | 5755 | MCS0 | 11.78 | 15.066 | 30 | PASS |
| 159 | 5795 | MCS0 | 11.80 | 15.136 | 30 | PASS |

802.11ac_VHT80_Main Antenna Port

| CH | Frequency (MHz) | Data Rate | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-------------------|------------------|---------------------------------|--------|
| 42 | 5210 | MCS0 | 9.75 | 9.441 | 23.98 | PASS |
| 58 | 5290 | MCS0 | 9.78 | 9.506 | 23.98 or $11+10\log(B) = 29.89$ | PASS |
| 106 | 5530 | MCS0 | 9.69 | 9.311 | 23.98 or $11+10\log(B) = 29.90$ | PASS |
| 122 | 5610 | MCS0 | 9.77 | 9.484 | 23.98 or $11+10\log(B) = 29.90$ | PASS |
| 155 | 5775 | MCS0 | 9.69 | 9.311 | 30 | PASS |

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802.11ac_VHT80_Aux Antenna Port

| CH | Frequency (MHz) | Data Rate | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-------------------|------------------|---------------------------------|--------|
| 42 | 5210 | MCS0 | 9.97 | 9.931 | 23.98 | PASS |
| 58 | 5290 | MCS0 | 9.96 | 9.908 | 23.98 or $11+10\log(B) = 29.90$ | PASS |
| 106 | 5530 | MCS0 | 9.85 | 9.661 | 23.98 or $11+10\log(B) = 29.90$ | PASS |
| 122 | 5610 | MCS0 | 9.94 | 9.863 | 23.98 or $11+10\log(B) = 29.90$ | PASS |
| 155 | 5775 | MCS0 | 9.83 | 9.616 | 30 | PASS |

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10 PEAK POWER SPECTRAL DENSITY

10.1 Standard Applicable

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

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

10.2 Measurement Procedure

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

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

For U-NII-3 Band:

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

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

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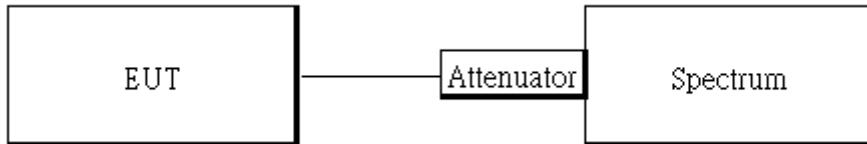
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10.3 Measurement Equipment Used

| SGS Conducted Room | | | | | |
|--------------------|--------------|----------------|---------------|------------------|-----------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due |
| Spectrum Analyzer | KEYSIGHT | N9010A | MY54510568 | 04/14/2016 | 04/13/2017 |
| Coaxial Cable 30cm | WOKEN | 00100A1F1A195C | RF01 | 12/12/2015 | 12/11/2016 |
| DC Block | PASTERNAK | PE8210 | RF29 | 12/12/2015 | 12/11/2016 |
| Attenuator | WOKEN | 218FS-10 | RF23 | 12/12/2015 | 12/11/2016 |
| DC Power Supply | Agilent | E3640A | MY53140006 | 05/04/2016 | 05/03/2017 |

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 | -0.31 | 11 | -11.31 |
| 5220 | -3.46 | 11 | -14.46 |
| 5240 | -2.34 | 11 | -13.34 |
| 5260 | -2.17 | 11 | -13.17 |
| 5300 | -3.33 | 11 | -14.33 |
| 5320 | -0.16 | 11 | -11.16 |
| 5500 | 0.05 | 11 | -10.95 |
| 5580 | -1.94 | 11 | -12.94 |
| 5700 | -0.46 | 11 | -11.46 |
| 5745 | 4.53 | 30 | -25.47 |
| 5785 | 4.24 | 30 | -25.76 |
| 5825 | 4.61 | 30 | -25.39 |

| POWER DENSITY 802.11n HT20 MODE | | | |
|---------------------------------|------------|-------------|-------------|
| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
| 5180 | -5.09 | 11 | -16.09 |
| 5220 | -3.99 | 11 | -14.99 |
| 5240 | -3.25 | 11 | -14.25 |
| 5260 | -2.05 | 11 | -13.05 |
| 5300 | -2.86 | 11 | -13.86 |
| 5320 | -2.08 | 11 | -13.08 |
| 5500 | -0.85 | 11 | -11.85 |
| 5580 | -2.71 | 11 | -13.71 |
| 5700 | -1.50 | 11 | -12.50 |
| 5745 | 3.07 | 30 | -26.93 |
| 5785 | 2.02 | 30 | -27.98 |
| 5825 | 2.52 | 30 | -27.48 |

| POWER DENSITY 802.11n HT40 MODE | | | |
|---------------------------------|------------|-------------|-------------|
| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
| 5190 | -4.99 | 11 | -15.99 |
| 5230 | -9.1 | 11 | -20.10 |
| 5270 | -4.29 | 11 | -15.29 |
| 5310 | -6.71 | 11 | -17.71 |
| 5510 | -6.83 | 11 | -17.83 |
| 5550 | -4.35 | 11 | -15.35 |
| 5670 | -6.84 | 11 | -17.84 |
| 5755 | 0.81 | 30 | -29.19 |
| 5795 | -0.20 | 30 | -30.20 |

| POWER DENSITY 802.11ac VHT80 MODE | | | |
|-----------------------------------|------------|-------------|-------------|
| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
| 5210 | -12.37 | 11 | -23.37 |
| 5290 | -11.00 | 11 | -22.00 |
| 5530 | -11.19 | 11 | -22.19 |
| 5610 | -11.46 | 11 | -22.46 |
| 5775 | -2.18 | 30 | -32.18 |

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802.11a 5150~5250 MHz

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



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



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



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802.11a 5250~5350 MHz

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



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



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

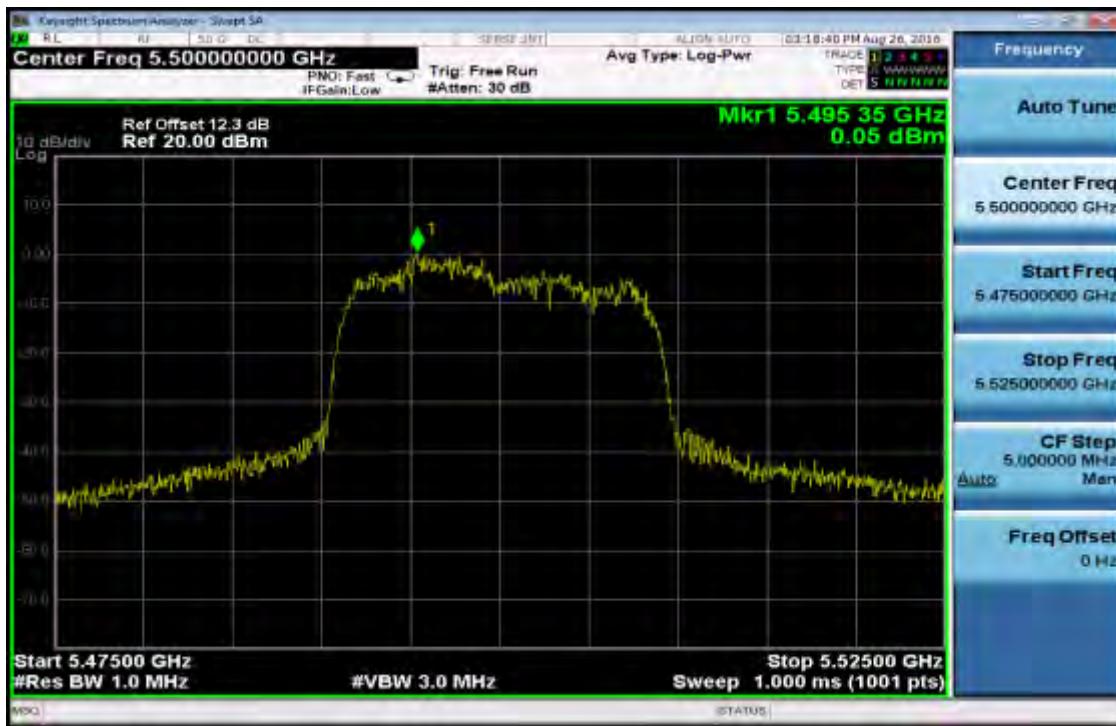


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802.11a 5470~5725 MHz**Peak Power Spectral Density Data Plot (CH Low 5500 MHz)****Peak Power Spectral Density Data Plot (CH Mid 5580 MHz)**

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



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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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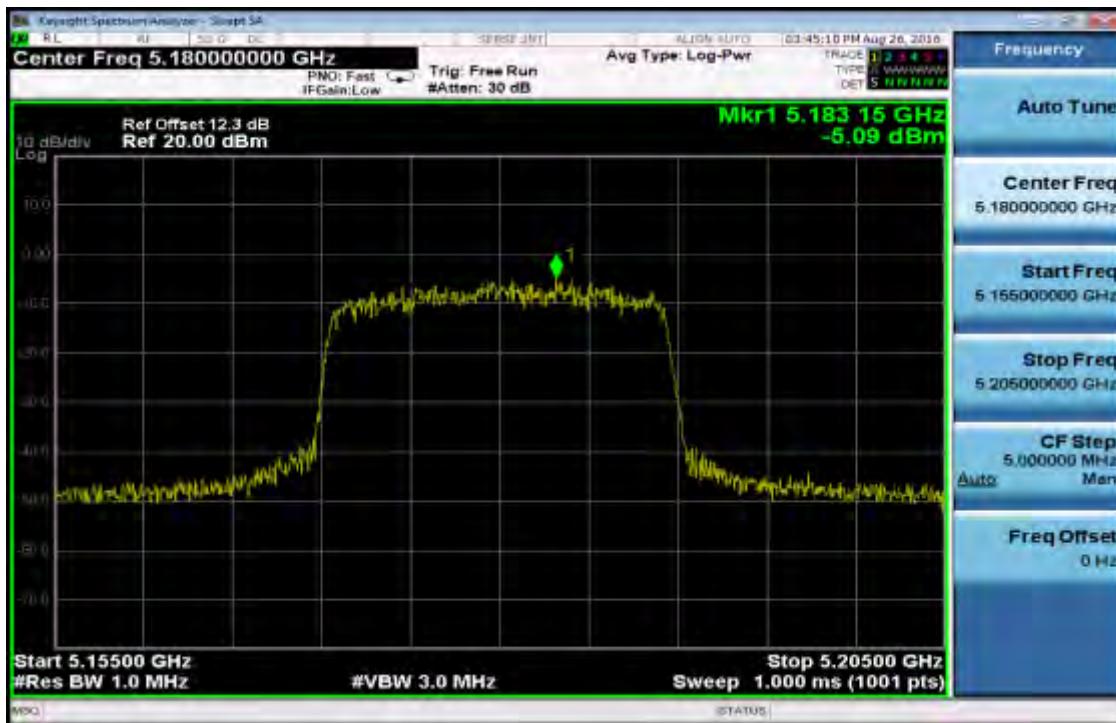
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802.11n HT20, 5150~5250 MHz**Peak Power Spectral Density Data Plot (CH Low 5180 MHz)****Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)**

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



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802.11n HT20, 5250~5350 MHz**Peak Power Spectral Density Data Plot (CH Low 5260MHz)****Peak Power Spectral Density Data Plot (CH Mid 5300 MHz)**

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



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

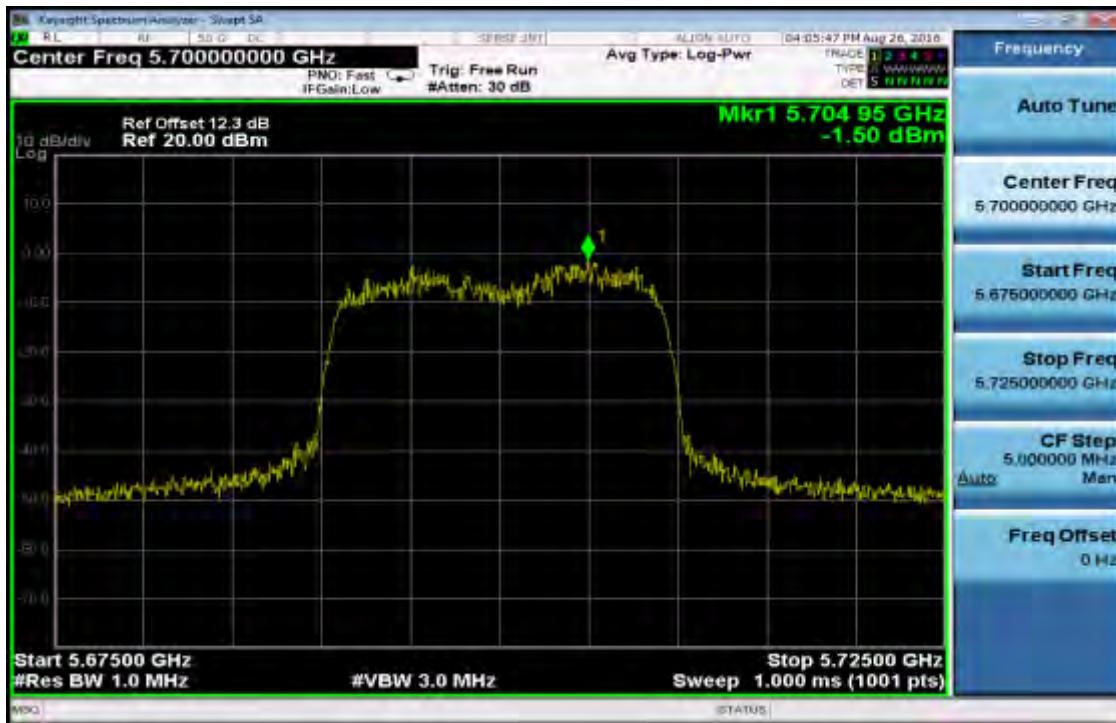
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Peak Power Spectral Density Data Plot (CH High 5700 MHz)



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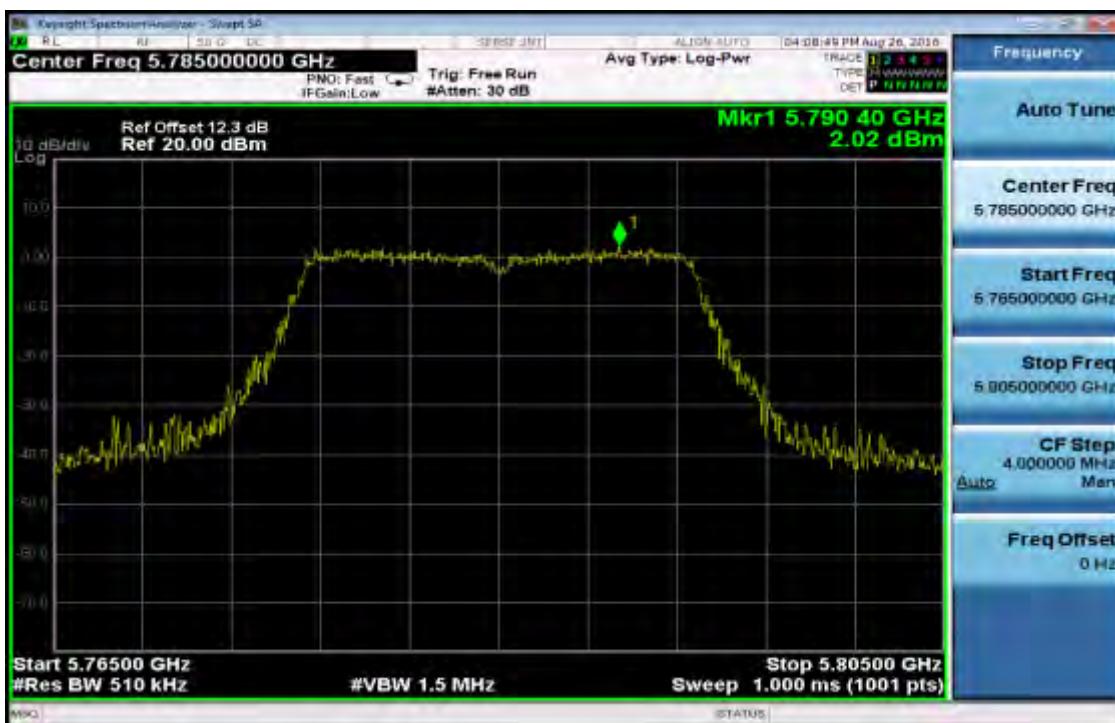
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802.11n HT20, 5725~5850 MHz

Peak Power Spectral Density Data Plot (CH Low 5745 MHz)



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



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



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802.11n HT40, 5150~5250 MHz**Peak Power Spectral Density Data Plot (CH Low 5190 MHz)****Peak Power Spectral Density Data Plot (CH High 5230 MHz)**

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802.11n HT40, 5250~5350 MHz**Peak Power Spectral Density Data Plot (CH Low 5270 MHz)****Peak Power Spectral Density Data Plot (CH High 5310 MHz)**

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

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



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802.11n HT40, 5725~5850 MHz**Peak Power Spectral Density Data Plot (CH Low 5755 MHz)****Peak Power Spectral Density Data Plot (CH High 5795 MHz)**

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



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



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**802.11ac VHT80, 5470~5725 MHz
Peak Power Spectral Density Data Plot (CH Low 5530 MHz)****802.11ac VHT80, 5470~5725 MHz
Peak Power Spectral Density Data Plot (CH High 5610 MHz)**

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

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11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

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

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

| APPLICABLE TO | LIMIT | |
|---|---|---|
| FCC KDB 789033 D02 General UNII Test Procedures New Rules | FIELD STRENGTH AT 3m | |
| | PK: 74 (dB μ V/m) | AV 54 (dB μ V/m) |
| APPLICABLE TO | EIRP LIMIT | FIELD STRENGTH AT 3m |
| 15.407(b)(1) | | |
| 15.407(b)(2) | PK: -27 (dBm/MHz) | PK: 68.3 (dB μ V/m) |
| 15.407(b)(3) | | |
| 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 ($\text{dB}\mu\text{V}/\text{m}$) = $20 \log \text{Emission level } (\text{dB}\mu\text{V}/\text{m})$

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11.2 Measurement Equipment Used

SGS SAC-III

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due |
|-------------------|-----------------|--------------------------------|------------------|------------------|-----------------|
| EMI Test Receiver | R&S | ESU 40 | 100363 | 04/12/2016 | 04/11/2017 |
| Loop Antenna | ETS-Lindgren | 6502 | 00143303 | 12/23/2015 | 12/22/2016 |
| Broadband Antenna | TESEQ | CBL 6112D | 35240 | 10/28/2015 | 10/27/2016 |
| Horn Antenna | ETS-Lindgren | 3117 | 00143272 | 12/16/2015 | 12/15/2016 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 185 | 07/18/2016 | 07/17/2017 |
| Pre Amplifier | EMC Instruments | EMC330 | 980096 | 12/12/2015 | 12/11/2016 |
| Pre Amplifier | EMC Instruments | EMC0011830 | 980199 | 12/12/2015 | 12/11/2016 |
| Pre Amplifier | R&S | SCU-18 | 10204 | 12/12/2015 | 12/11/2016 |
| Pre Amplifier | EMC Instruments | EMC184045B | 980135 | 12/12/2015 | 12/11/2016 |
| Coaxial Cable | Huber+Suhner | RG 214/U | 966Rx 9K-30M | 12/12/2015 | 12/11/2016 |
| Coaxial Cable | Huber+Suhner | RG 214/U SUCAFLEX 104 | 966Rx 30M-3G | 12/12/2015 | 12/11/2016 |
| Coaxial Cable | Huber+Suhner | SUCAFLEX 104 | 966Rx 1G-18G | 12/12/2015 | 12/11/2016 |
| Coaxial Cable | Huber+Suhner | mini 141-12 SUCAFLEX 104 | 966Rx 18G-40G | 12/12/2015 | 12/11/2016 |
| Coaxial Cable | Huber+Suhner | SUCAFLEX 104 | 966Tx 30M-18G | 12/12/2015 | 12/11/2016 |
| Coaxial Cable | Huber+Suhner | SUCAFLEX 102 | 966Tx 18G-40G | 12/12/2015 | 12/11/2016 |
| Attenuator | WOKEN | 218FS-10 | RF27 | 12/12/2015 | 12/11/2016 |
| Site NSA | SGS | 966 Chamber C | SAC-C | 03/04/2016 | 03/03/2017 |
| Site VSWR | SGS | 966 Chamber C | SAC-C | 03/04/2016 | 03/03/2017 |
| DC Power Supply | HOLA | DP-3003 | D7070035 | 05/04/2016 | 05/03/2017 |
| Controller | MF | MF-7802 | N/A | N.C.R. | N.C.R. |
| Antenna Master | MF | N/A | N/A | N.C.R. | N.C.R. |
| Turn Table | MF | N/A | N/A | N.C.R. | N.C.R. |
| Test Software | World-Pallas | Dr. E | V 3.0 Lite | N.C.R. | N.C.R. |

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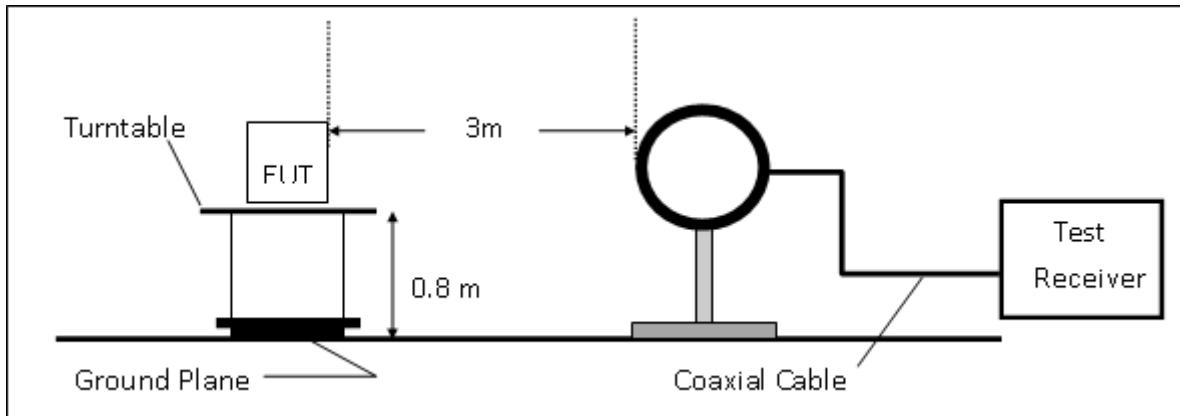
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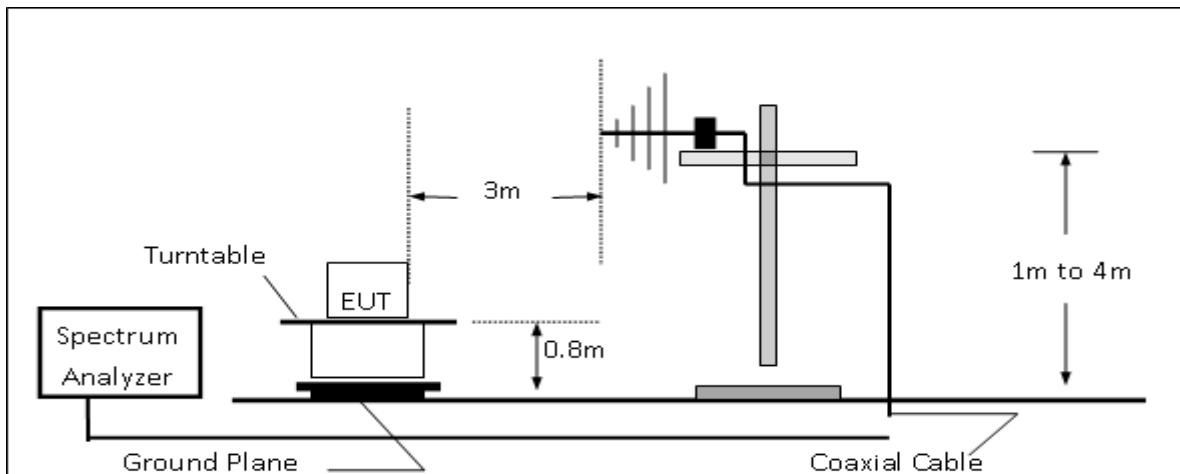
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11.3 Test SET-UP

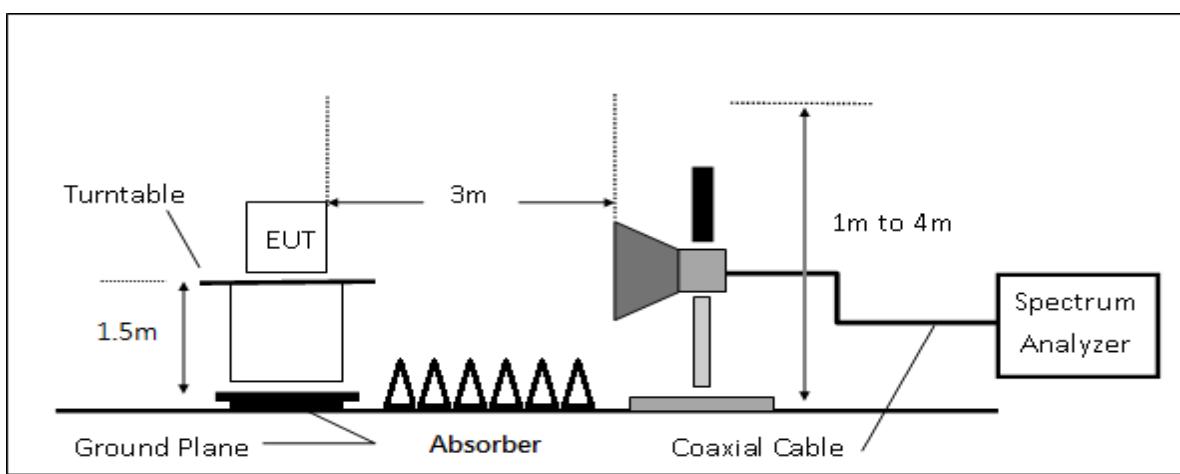
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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 v01r01.
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:

$$\text{FS} = \text{RA} + \text{AF} + \text{CL} - \text{AG}$$

| | | |
|-------|------------------------|--|
| 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

Refer to attach tabular data sheets.

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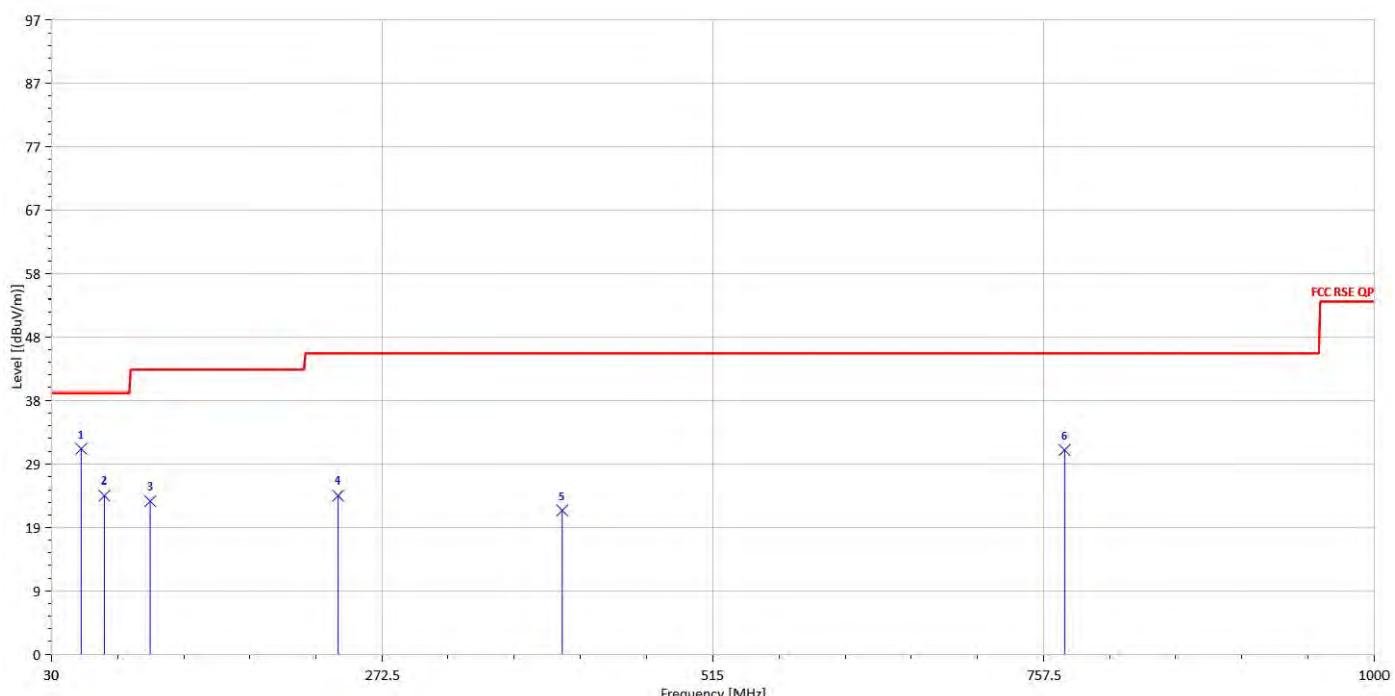
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Radiated Spurious Emission Measurement Result**Below 1GHz Worst-Case Data:****802.11a 5150~5250 MHz**

| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/8/26 |
| Fundamental Frequency : | 5220 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH Mid | Test Engineer : | Ashton |
| EUT Pol. : | E2 | Measurement Antenna Pol. : | Vertical |



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level | Factor | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|---------------------------|--------|------------------------|------------------------|--------------|
| | | | dB μ V | | | | |
| 52.31 | S | Peak | 51.59 | -20.18 | 31.41 | 40 | -8.59 |
| 68.80 | S | Peak | 46.27 | -21.95 | 24.32 | 40 | -15.68 |
| 102.75 | S | Peak | 40.86 | -17.40 | 23.46 | 43.5 | -20.04 |
| 240.49 | S | Peak | 39.53 | -15.21 | 24.32 | 46 | -21.68 |
| 404.42 | S | Peak | 31.72 | -9.67 | 22.06 | 46 | -23.94 |
| 773.02 | S | Peak | 35.83 | -4.59 | 31.24 | 46 | -14.76 |

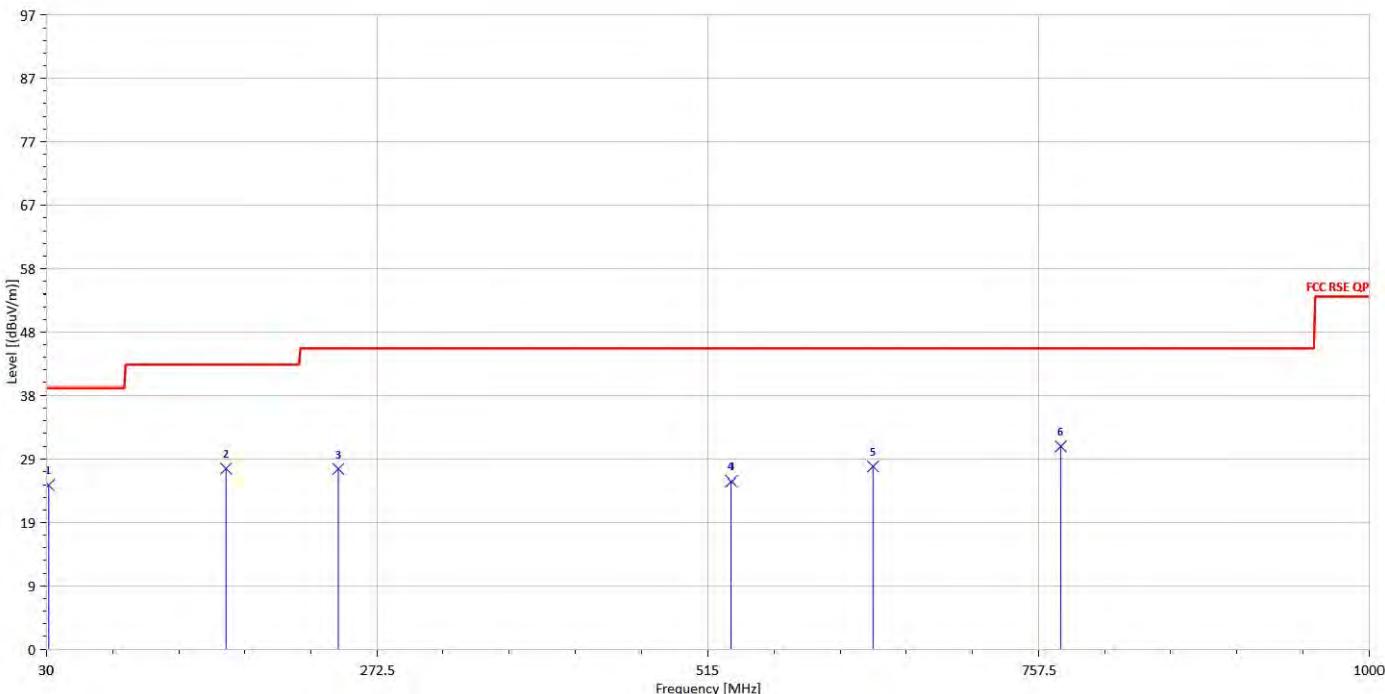
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Operation Mode : 802.11a Test Date : 2016/8/26
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 31.94 | S | Peak | 33.39 | -8.22 | 25.16 | 40 | -14.84 |
| 161.92 | S | Peak | 45.29 | -17.71 | 27.59 | 43.5 | -15.91 |
| 244.37 | S | Peak | 42.57 | -15.04 | 27.53 | 46 | -18.47 |
| 532.46 | S | Peak | 32.80 | -7.09 | 25.71 | 46 | -20.29 |
| 636.25 | S | Peak | 33.16 | -5.25 | 27.92 | 46 | -18.08 |
| 773.99 | S | Peak | 35.73 | -4.72 | 31.02 | 46 | -14.98 |

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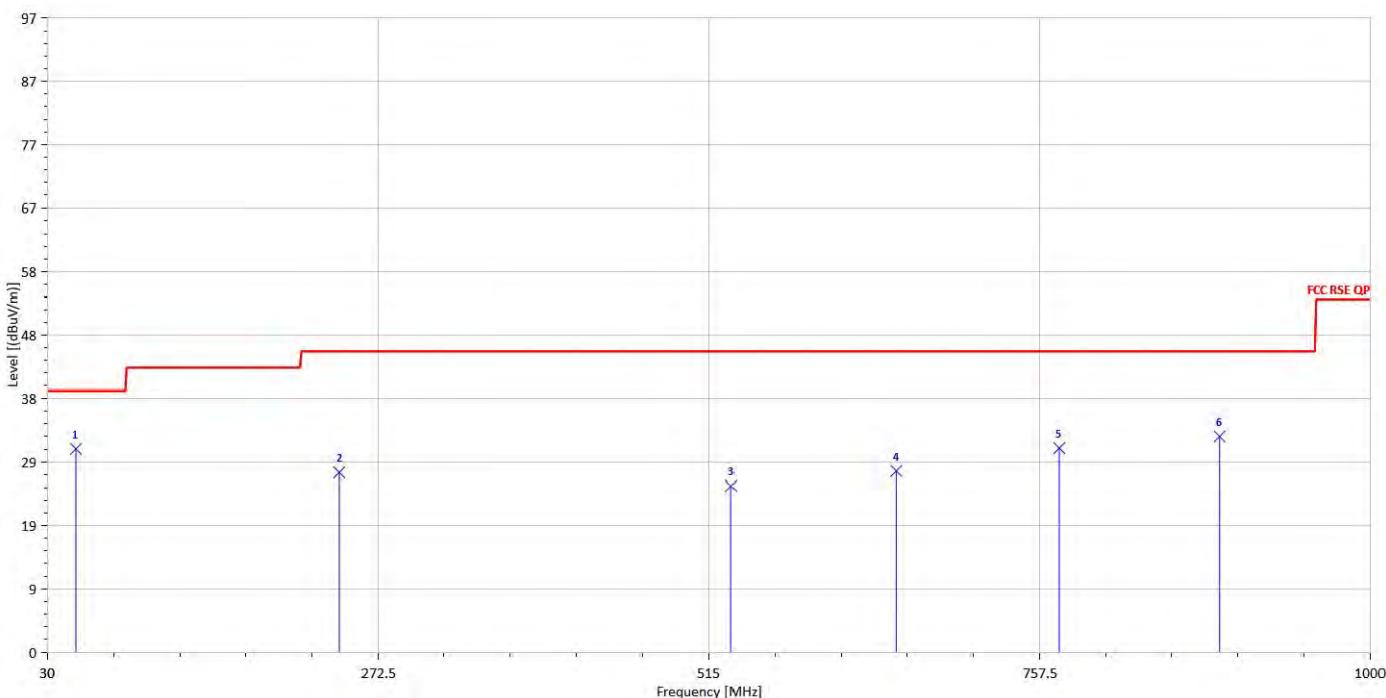
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802.11a 5250~5350 MHz

Operation Mode : 802.11a Test Date : 2016/8/26
Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 51.34 | S | Peak | 50.97 | -19.88 | 31.09 | 40 | -8.91 |
| 244.37 | S | Peak | 42.50 | -15.04 | 27.46 | 46 | -18.54 |
| 531.49 | S | Peak | 32.67 | -7.22 | 25.45 | 46 | -20.55 |
| 652.74 | S | Peak | 32.92 | -5.24 | 27.68 | 46 | -18.32 |
| 772.05 | S | Peak | 35.61 | -4.41 | 31.21 | 46 | -14.79 |
| 889.42 | S | Peak | 35.82 | -2.81 | 33.00 | 46 | -13.00 |

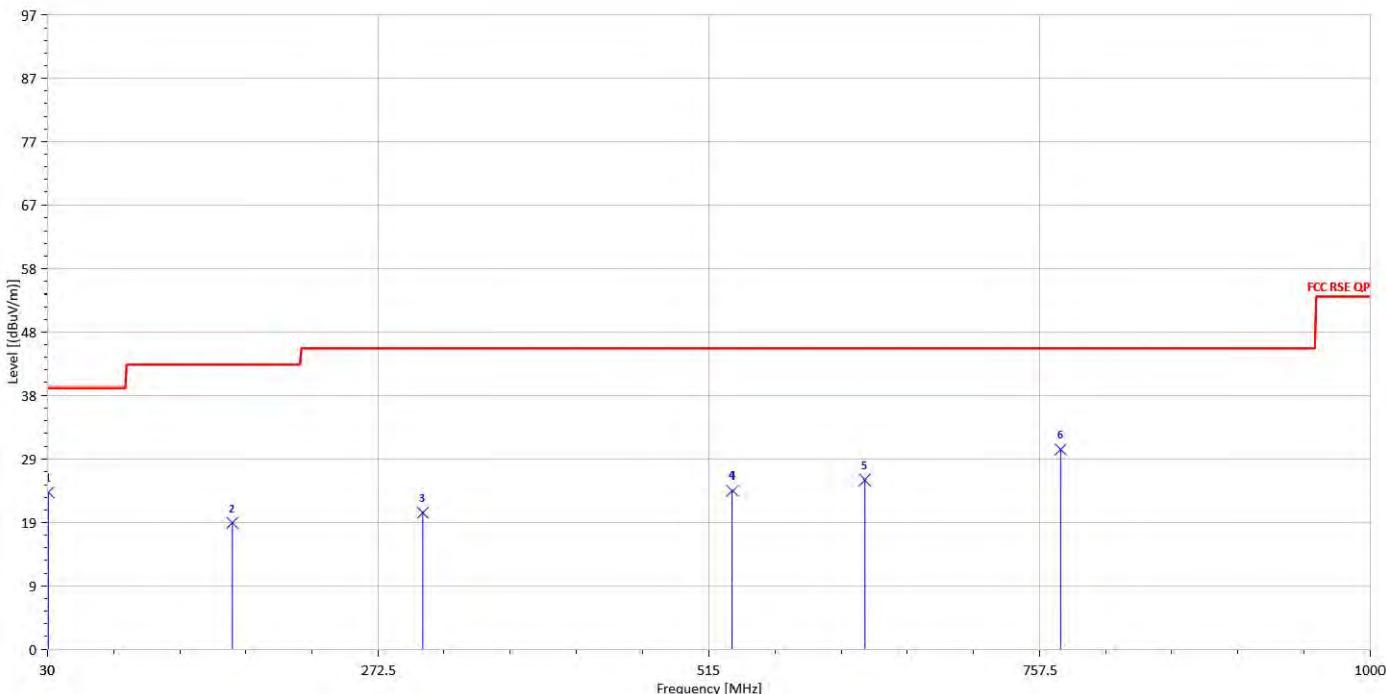
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Operation Mode : 802.11a Test Date : 2016/8/26
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 30.97 | S | Peak | 31.78 | -7.70 | 24.07 | 40 | -15.93 |
| 165.80 | S | Peak | 37.28 | -17.92 | 19.36 | 43.5 | -24.14 |
| 305.48 | S | Peak | 33.77 | -12.86 | 20.91 | 46 | -25.09 |
| 532.46 | S | Peak | 31.38 | -7.09 | 24.29 | 46 | -21.71 |
| 629.46 | S | Peak | 31.99 | -6.08 | 25.91 | 46 | -20.09 |
| 773.02 | S | Peak | 35.12 | -4.59 | 30.53 | 46 | -15.47 |

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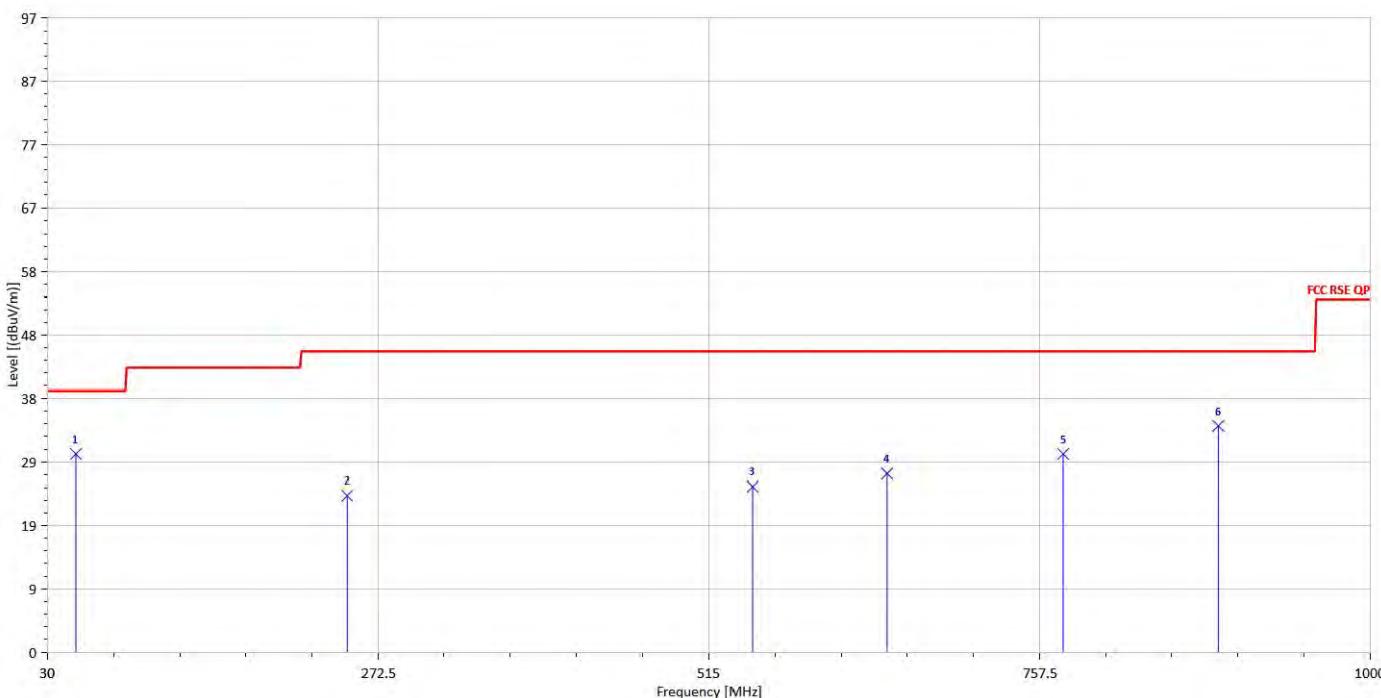
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802.11a, 5470~5725 MHz

Operation Mode : 802.11a Test Date : 2016/8/26
Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 51.34 | S | Peak | 50.18 | -19.88 | 30.30 | 40 | -9.70 |
| 250.19 | S | Peak | 38.57 | -14.58 | 23.99 | 46 | -22.01 |
| 547.01 | S | Peak | 32.64 | -7.27 | 25.37 | 46 | -20.63 |
| 645.95 | S | Peak | 32.08 | -4.79 | 27.29 | 46 | -18.71 |
| 774.96 | S | Peak | 35.05 | -4.75 | 30.30 | 46 | -15.70 |
| 888.45 | S | Peak | 37.47 | -2.84 | 34.64 | 46 | -11.36 |

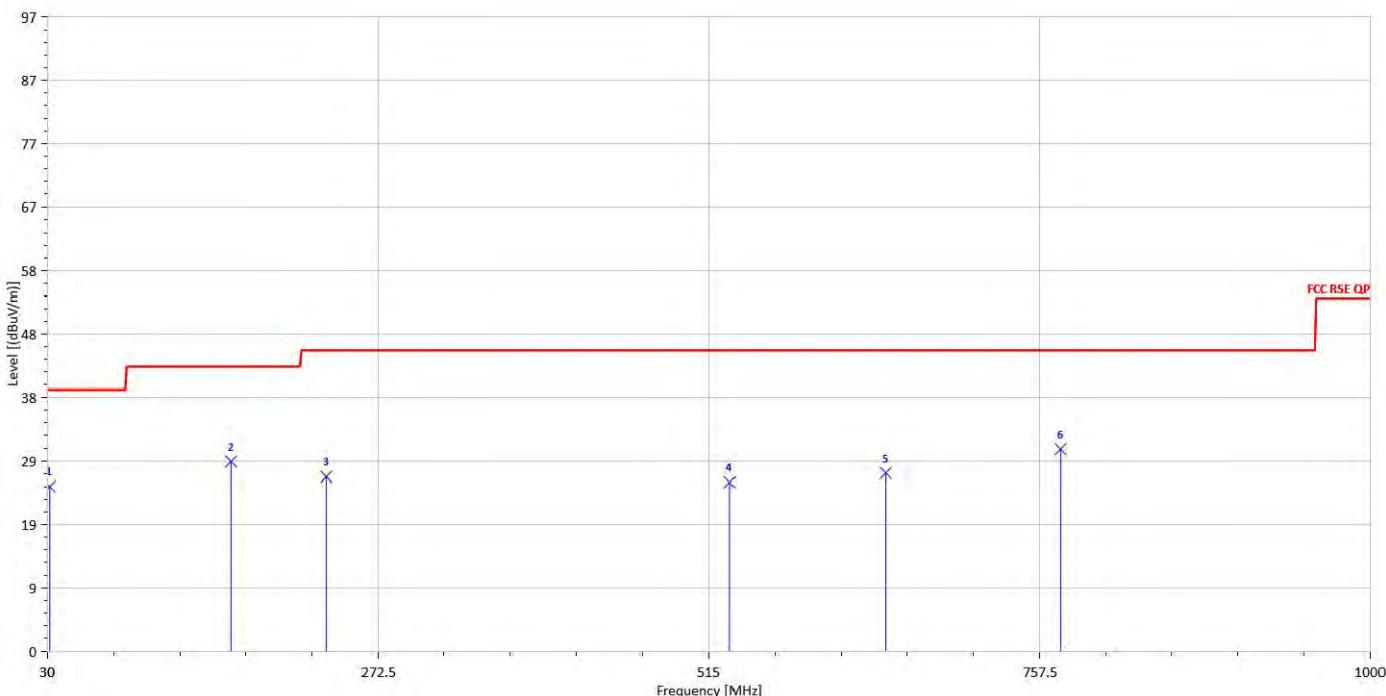
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Operation Mode : 802.11a Test Date : 2016/8/26
Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| | | | dB μ V | | | | |
| 31.94 | S | Peak | 33.43 | -8.22 | 25.21 | 40 | -14.79 |
| 164.83 | S | Peak | 46.78 | -17.78 | 29.00 | 43.5 | -14.50 |
| 234.67 | S | Peak | 42.54 | -15.87 | 26.67 | 46 | -19.33 |
| 530.52 | S | Peak | 33.05 | -7.20 | 25.85 | 46 | -20.15 |
| 644.98 | S | Peak | 32.11 | -4.88 | 27.23 | 46 | -18.77 |
| 773.02 | S | Peak | 35.48 | -4.59 | 30.89 | 46 | -15.11 |

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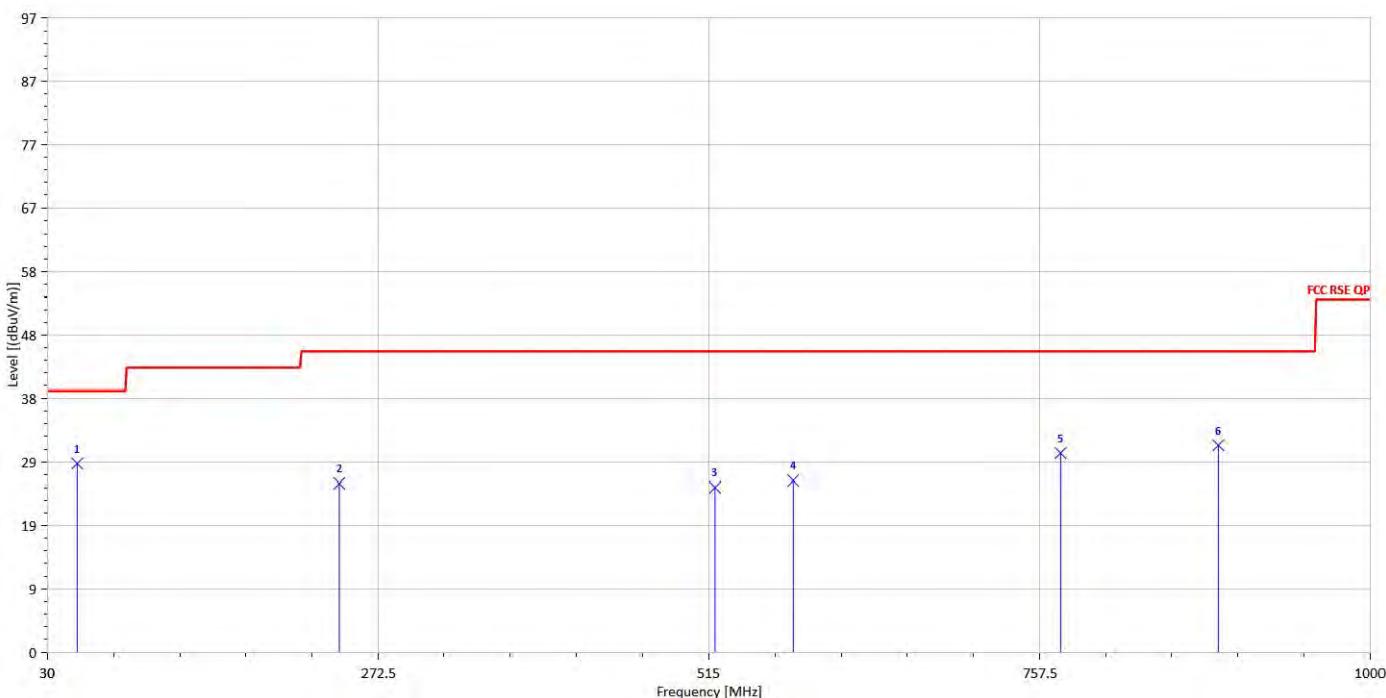
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802.11a, 5725~5850 MHz

Operation Mode : 802.11a Test Date : 2016/8/26
Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 52.31 | S | Peak | 49.00 | -20.18 | 28.83 | 40 | -11.17 |
| 244.37 | S | Peak | 40.87 | -15.04 | 25.83 | 46 | -20.17 |
| 519.85 | S | Peak | 32.57 | -7.33 | 25.23 | 46 | -20.77 |
| 577.08 | S | Peak | 32.57 | -6.30 | 26.27 | 46 | -19.73 |
| 773.02 | S | Peak | 35.03 | -4.59 | 30.44 | 46 | -15.56 |
| 888.45 | S | Peak | 34.47 | -2.84 | 31.64 | 46 | -14.36 |

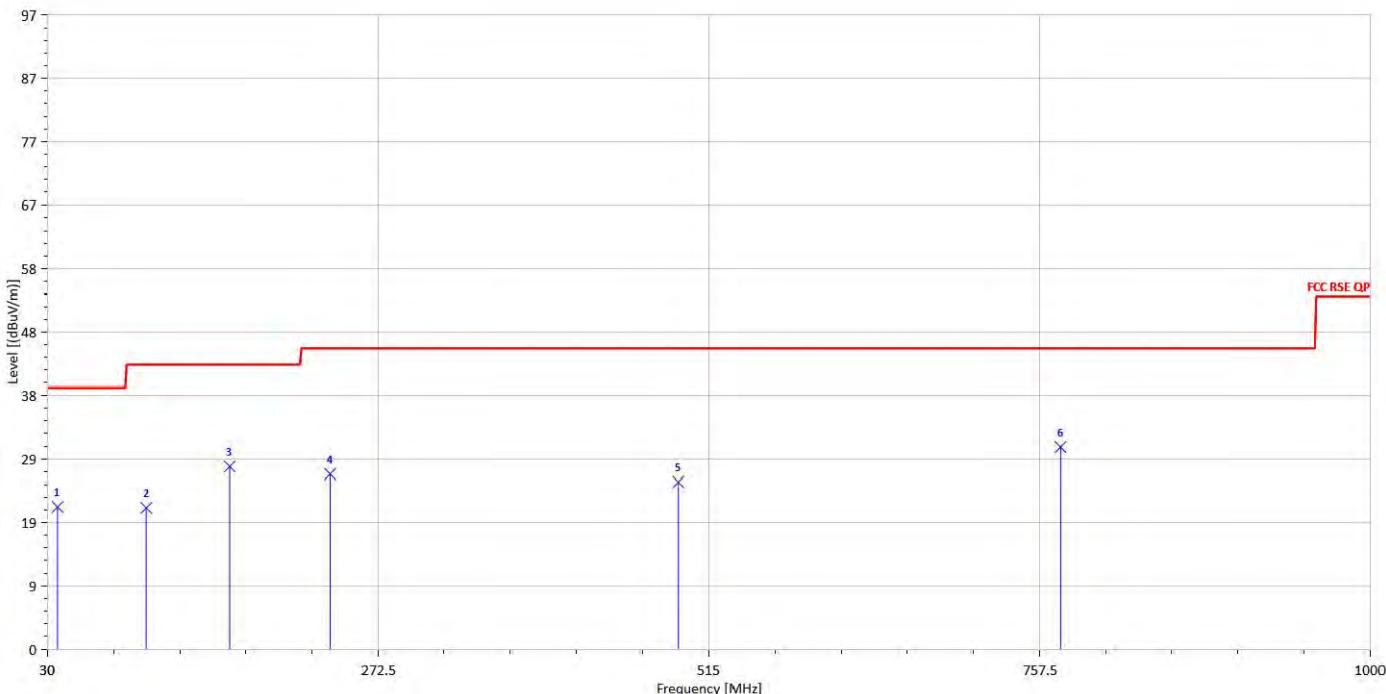
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Operation Mode : 802.11a Test Date : 2016/8/26
Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 37.76 | S | Peak | 33.30 | -11.49 | 21.81 | 40 | -18.19 |
| 102.75 | S | Peak | 39.04 | -17.40 | 21.64 | 43.5 | -21.86 |
| 163.86 | S | Peak | 45.52 | -17.61 | 27.91 | 43.5 | -15.59 |
| 237.58 | S | Peak | 42.32 | -15.53 | 26.79 | 46 | -19.21 |
| 492.69 | S | Peak | 33.30 | -7.72 | 25.58 | 46 | -20.42 |
| 773.02 | S | Peak | 35.50 | -4.59 | 30.91 | 46 | -15.09 |

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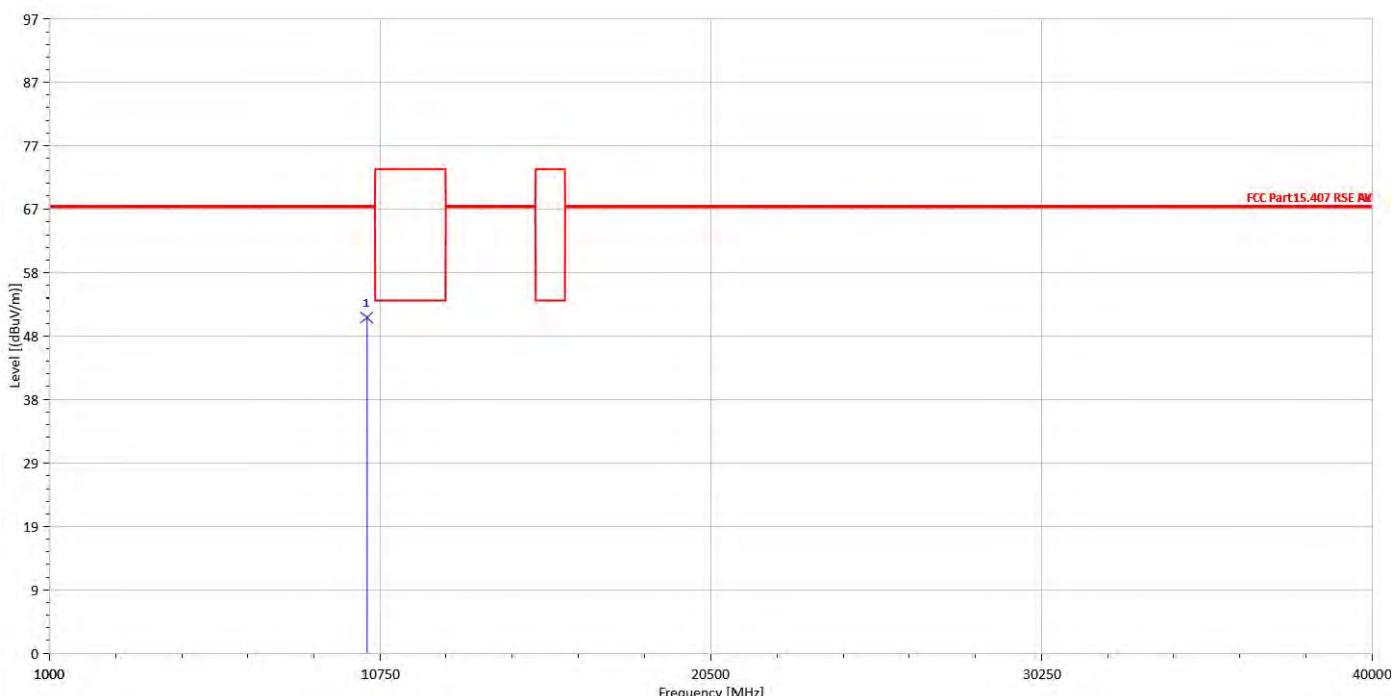
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Above 1GHz Worst-Case Data:**Radiated Spurious Emission Measurement Result 802.11a, 5150~5250 MHz**

Operation Mode : 802.11a Test Date : 2016/8/25
Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7 deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 10360.00 | H | Peak | 31.20 | 20.18 | 51.37 | 68.3 | -16.93 |

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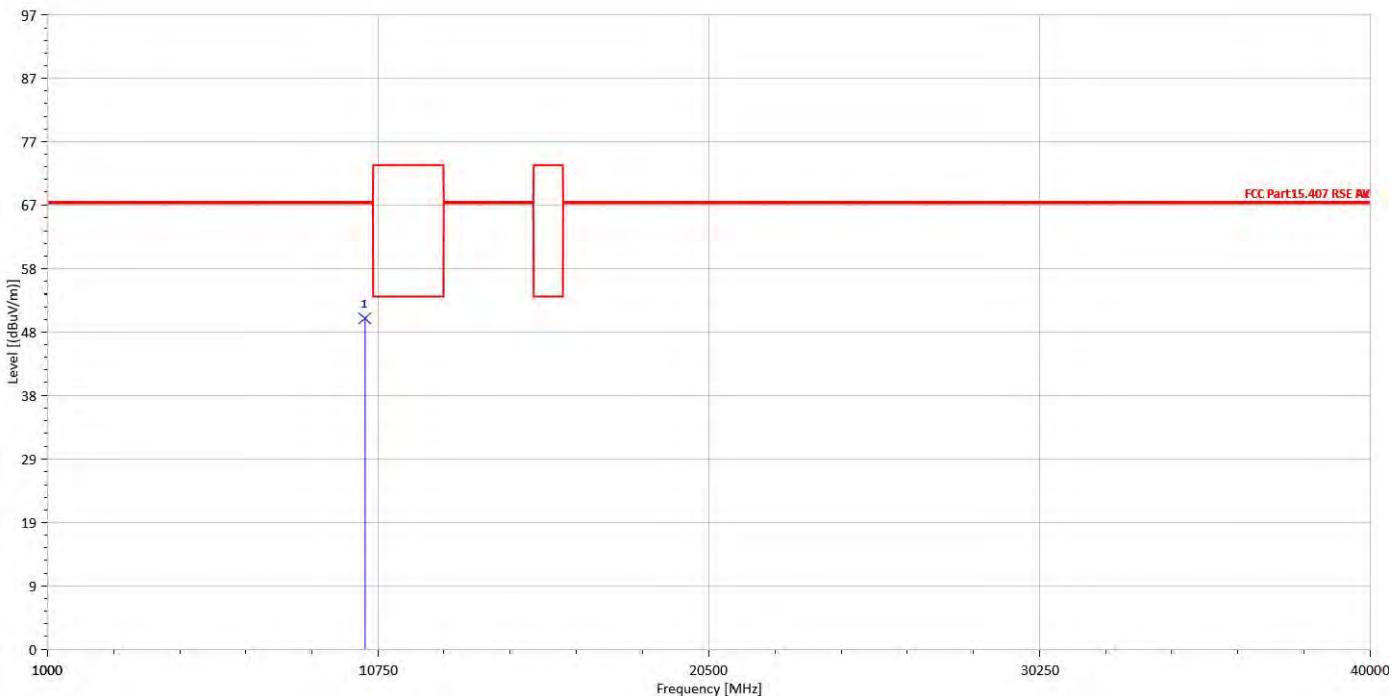
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Operation Mode : 802.11a Test Date : 2016/8/25
Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10360.00 | H | Peak | 30.45 | 20.18 | 50.63 | 68.3 | -17.67 |

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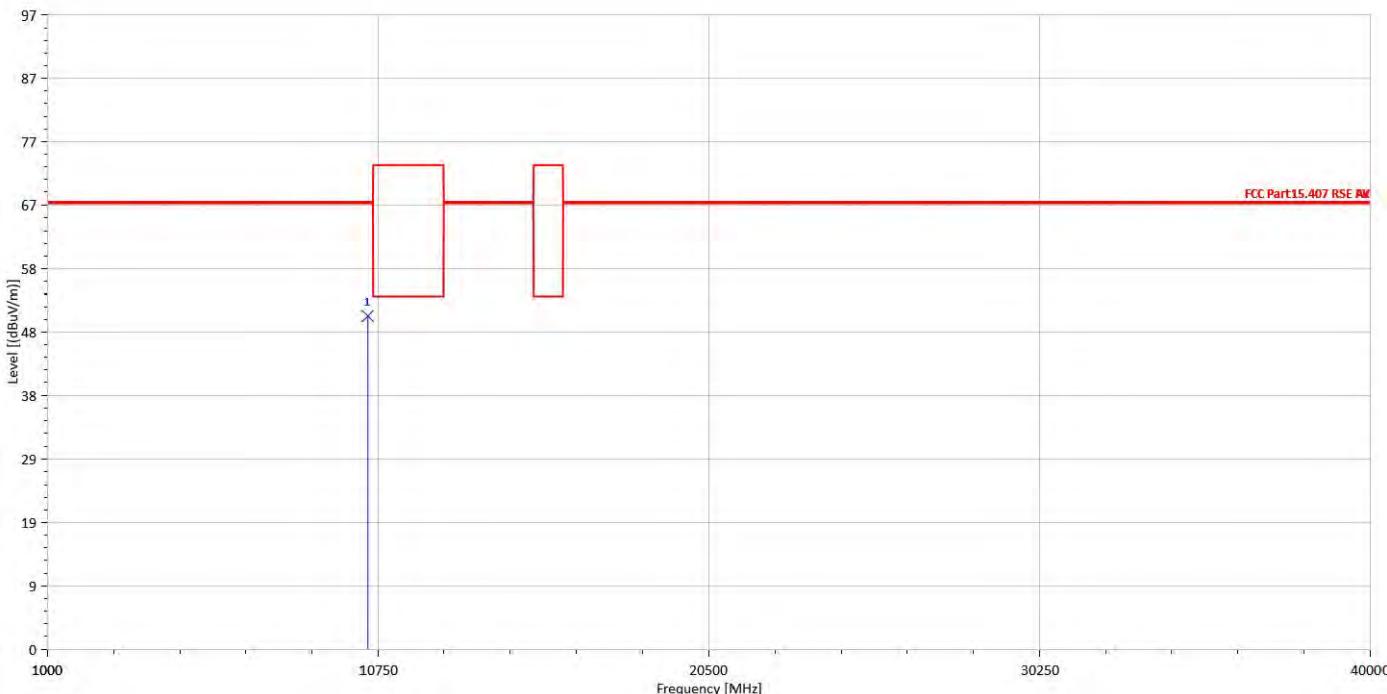
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Operation Mode : 802.11a Test Date : 2016/8/25
Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10440.00 | H | Peak | 30.70 | 20.29 | 50.99 | 68.3 | -17.31 |

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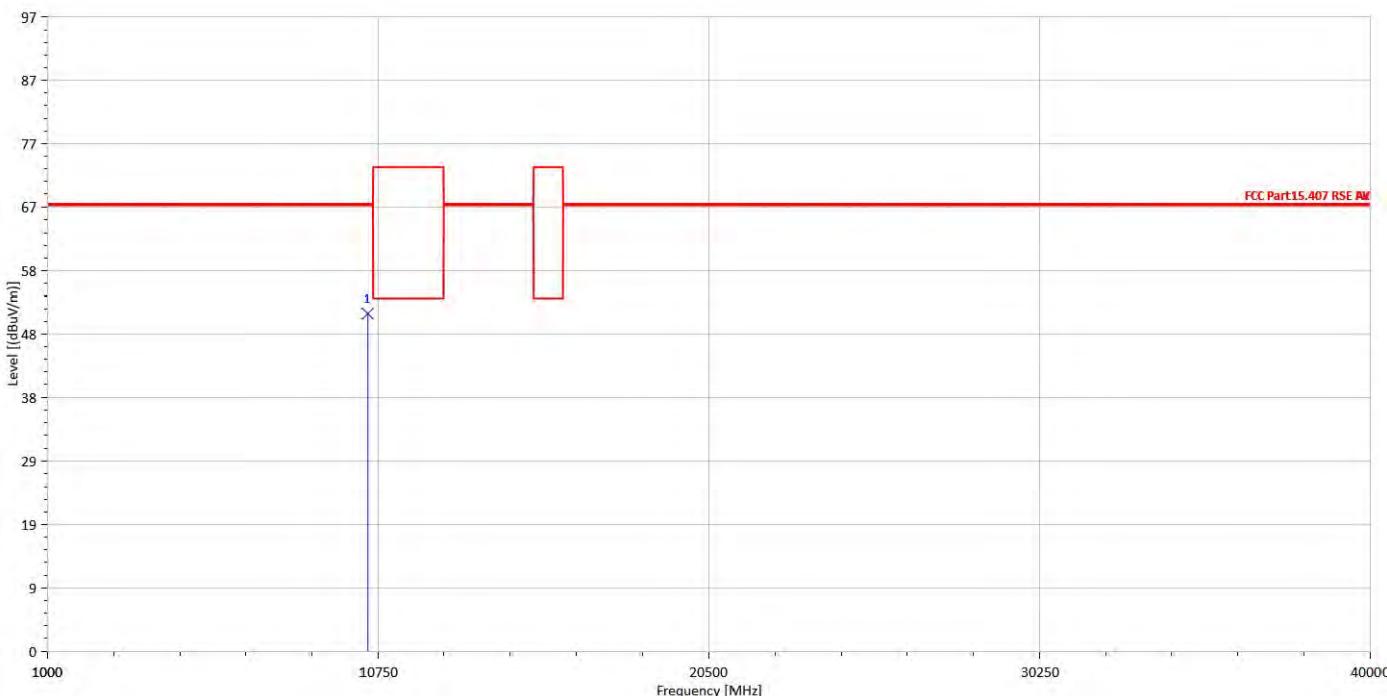
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Operation Mode : 802.11a Test Date : 2016/8/25
Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10440.00 | H | Peak | 31.38 | 20.29 | 51.67 | 68.3 | -16.63 |

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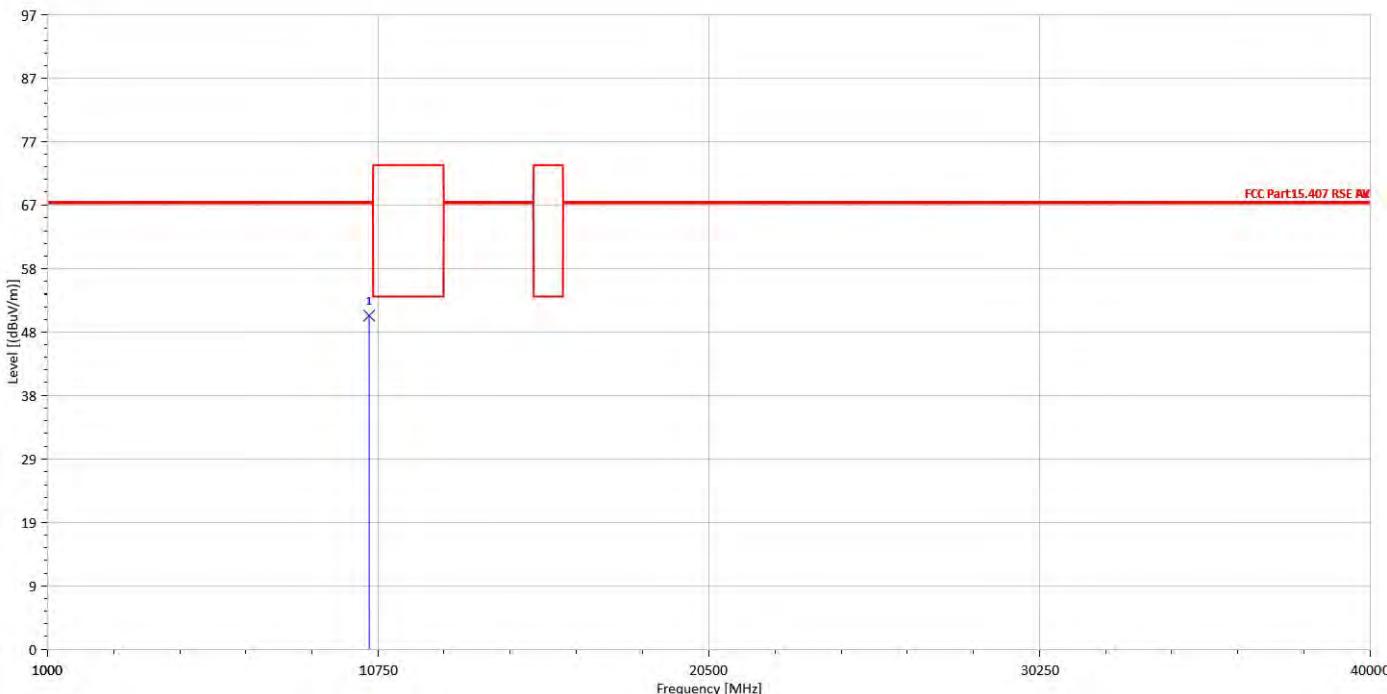
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Operation Mode : 802.11a Test Date : 2016/8/25
Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10480.00 | H | Peak | 30.37 | 20.68 | 51.05 | 68.3 | -17.25 |

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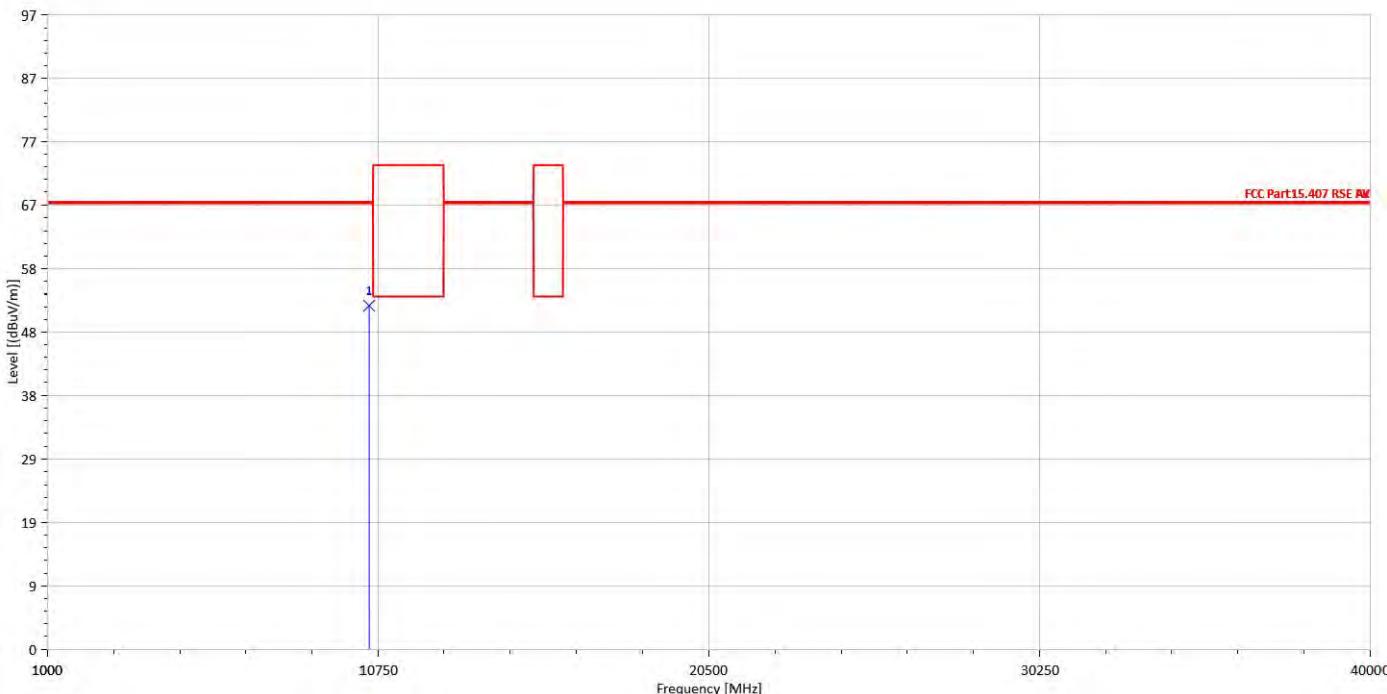
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Operation Mode : 802.11a Test Date : 2016/8/25
Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10480.00 | H | Peak | 31.92 | 20.68 | 52.60 | 68.3 | -15.70 |

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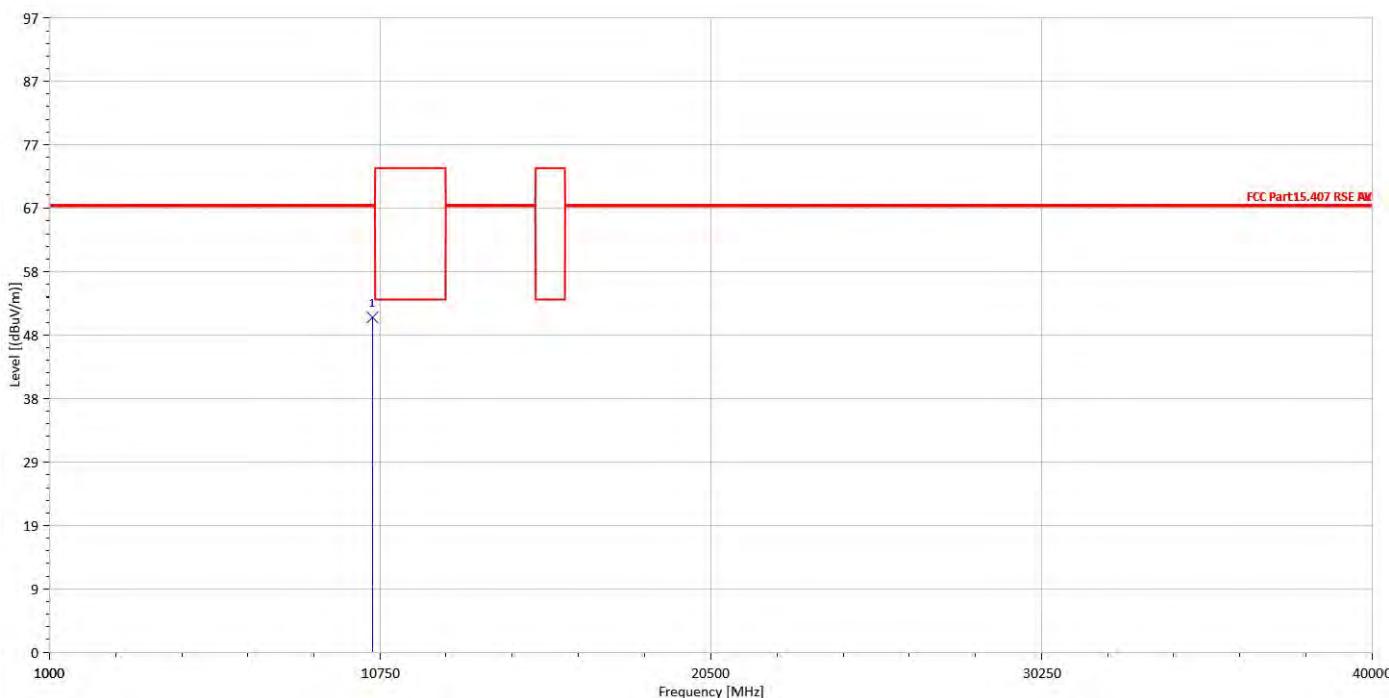
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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode : 802.11a Test Date : 2016/8/25
Fundamental Frequency : 5260 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10520.00 | H | Peak | 31.16 | 20.10 | 51.26 | 68.3 | -17.04 |

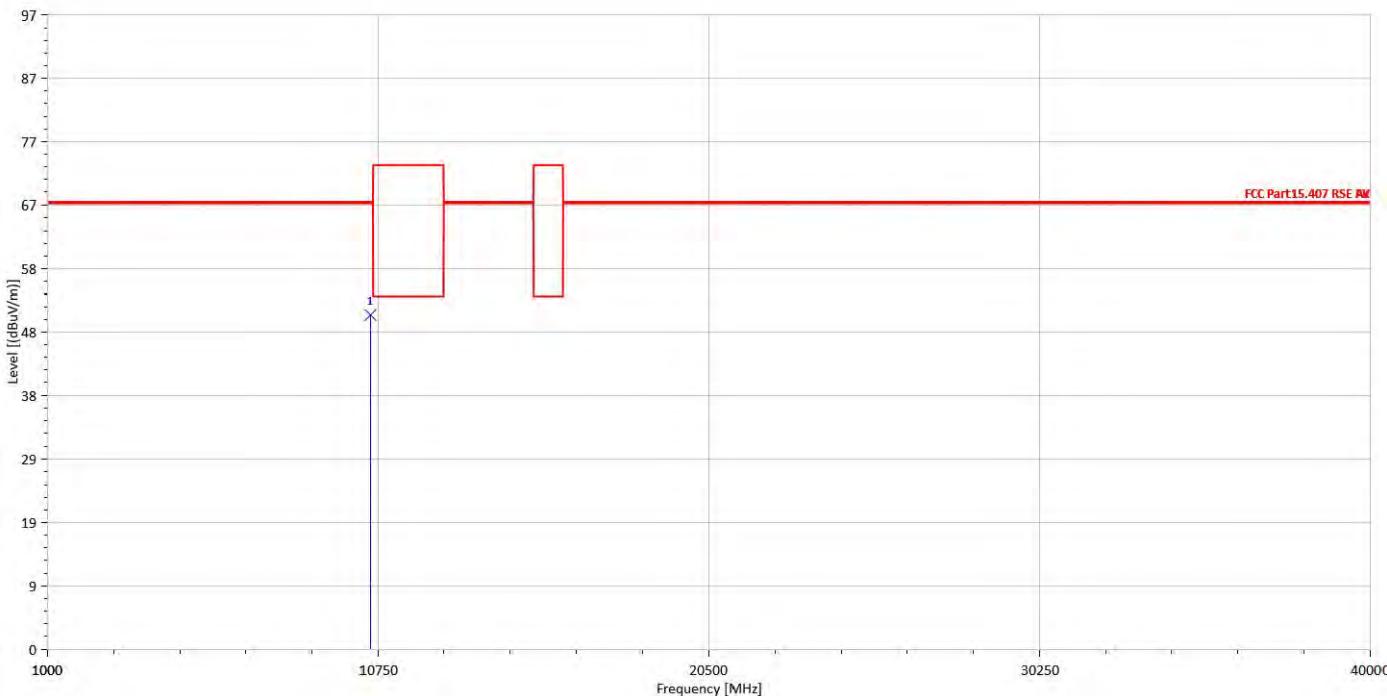
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Operation Mode : 802.11a Test Date : 2016/8/25
Fundamental Frequency : 5260 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10520.00 | H | Peak | 31.05 | 20.10 | 51.15 | 68.3 | -17.15 |

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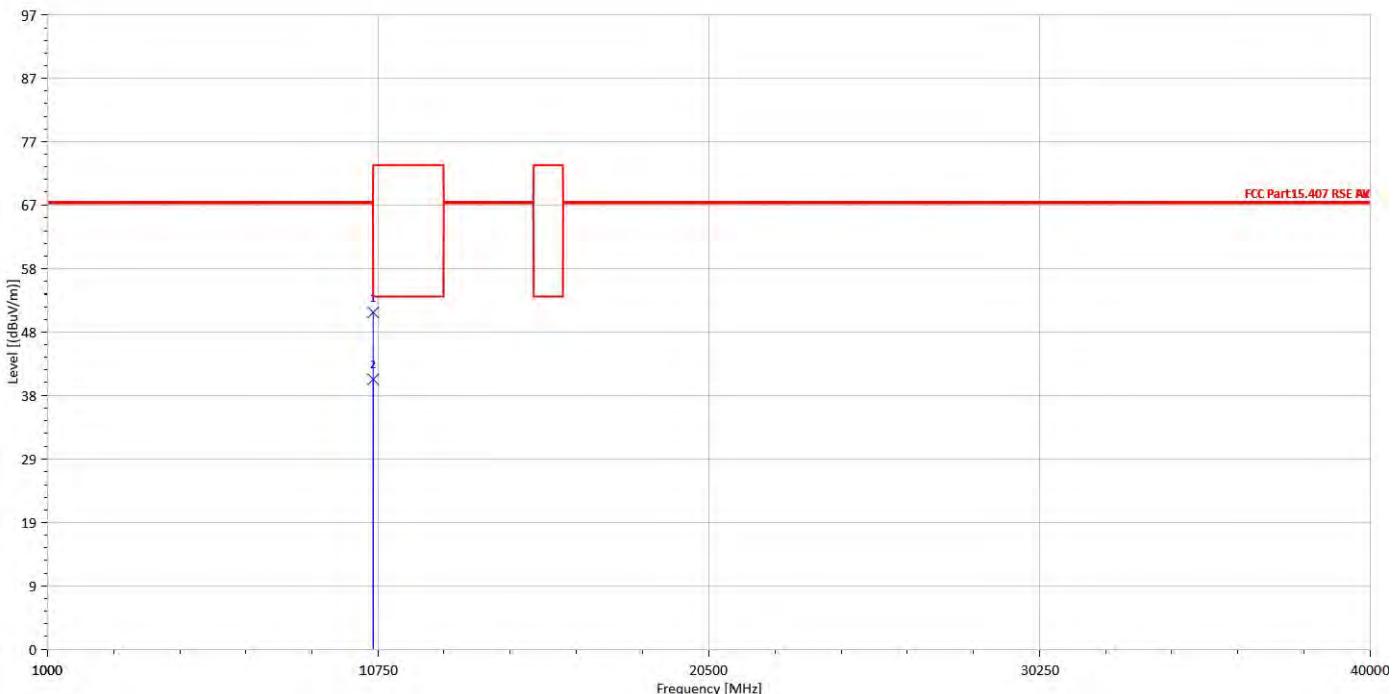
t (886-2) 2299-3279

f (886-2) 2298-0488

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Member of SGS Group

Operation Mode : 802.11a Test Date : 2016/8/25
Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10600.00 | H | Peak | 31.39 | 20.17 | 51.55 | 74 | -22.45 |
| 10600.00 | H | Average | 21.06 | 20.17 | 41.23 | 54 | -12.77 |

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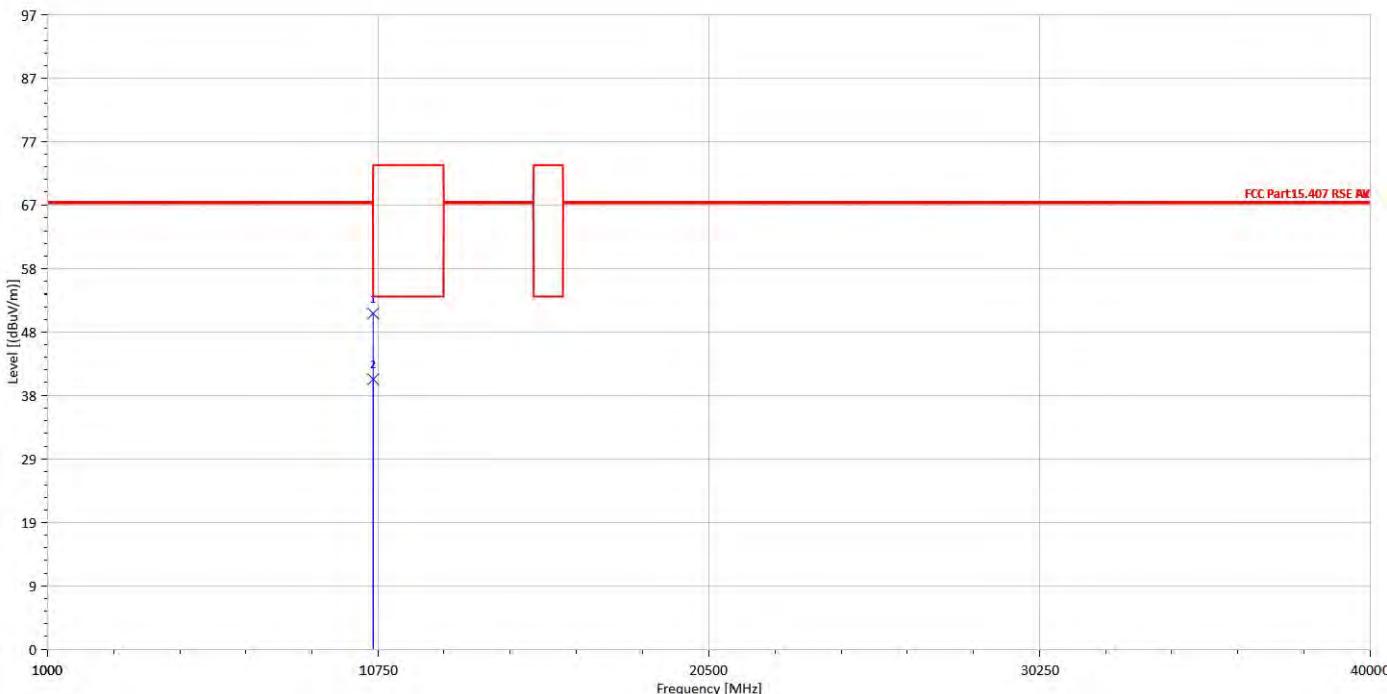
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Operation Mode : 802.11a Test Date : 2016/8/25
Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10600.00 | H | Peak | 31.23 | 20.17 | 51.40 | 74 | -22.60 |
| 10600.00 | H | Average | 21.08 | 20.17 | 41.25 | 54 | -12.75 |

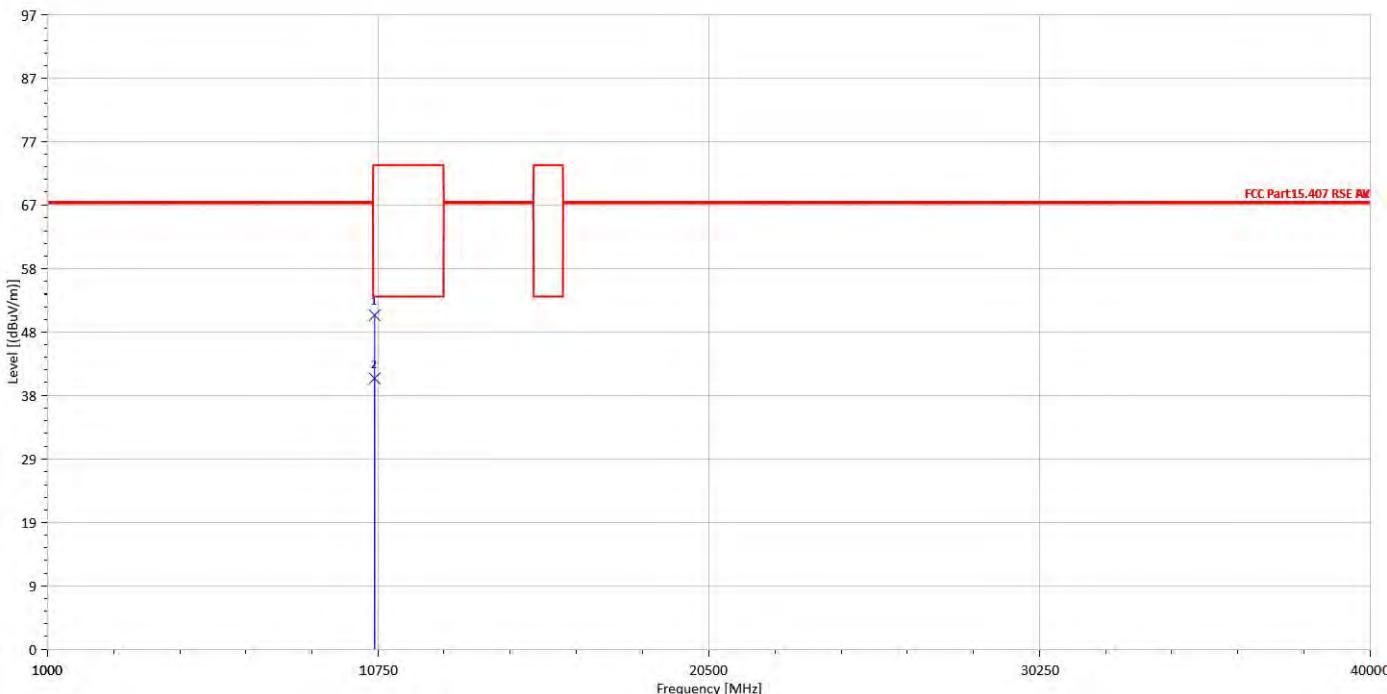
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Operation Mode : 802.11a Test Date : 2016/8/25
Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10640.00 | H | Peak | 30.78 | 20.34 | 51.12 | 74 | -22.88 |
| 10640.00 | H | Average | 21.02 | 20.34 | 41.36 | 54 | -12.64 |

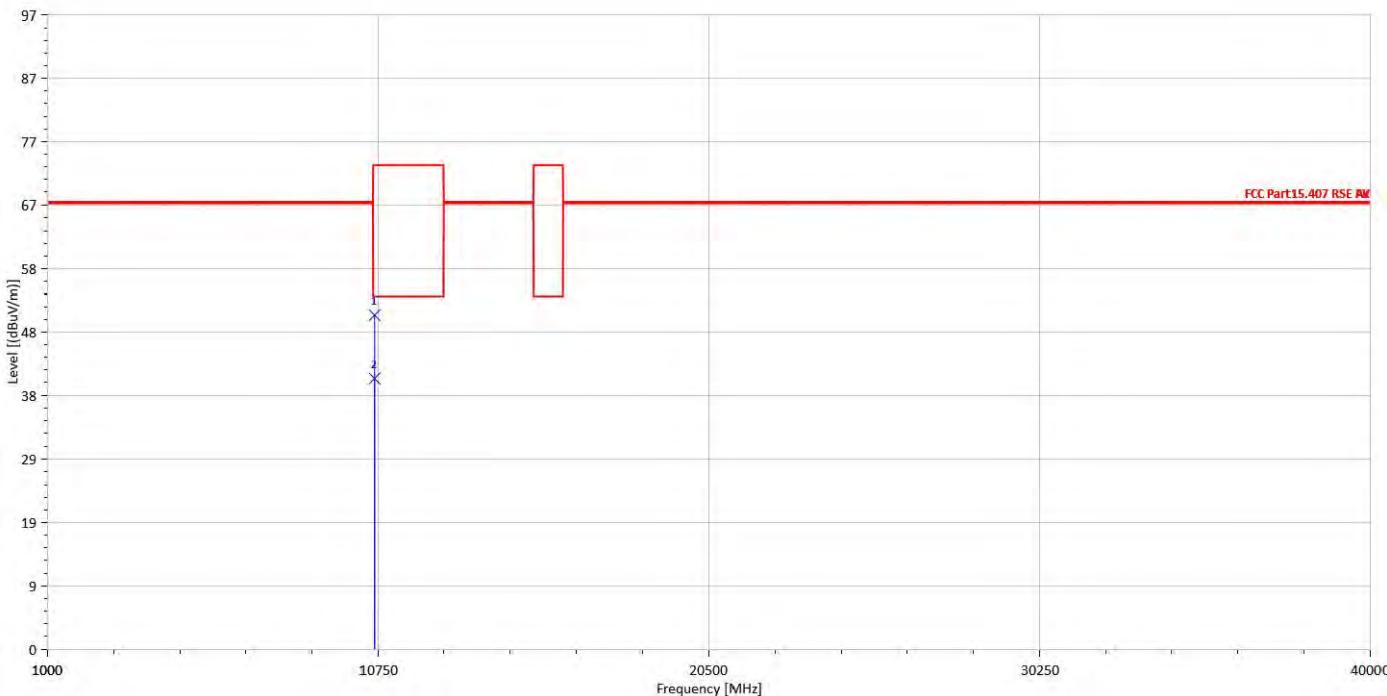
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Operation Mode : 802.11a Test Date : 2016/8/25
Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10640.00 | H | Peak | 30.79 | 20.34 | 51.13 | 74 | -22.87 |
| 10640.00 | H | Average | 21.01 | 20.34 | 41.35 | 54 | -12.65 |

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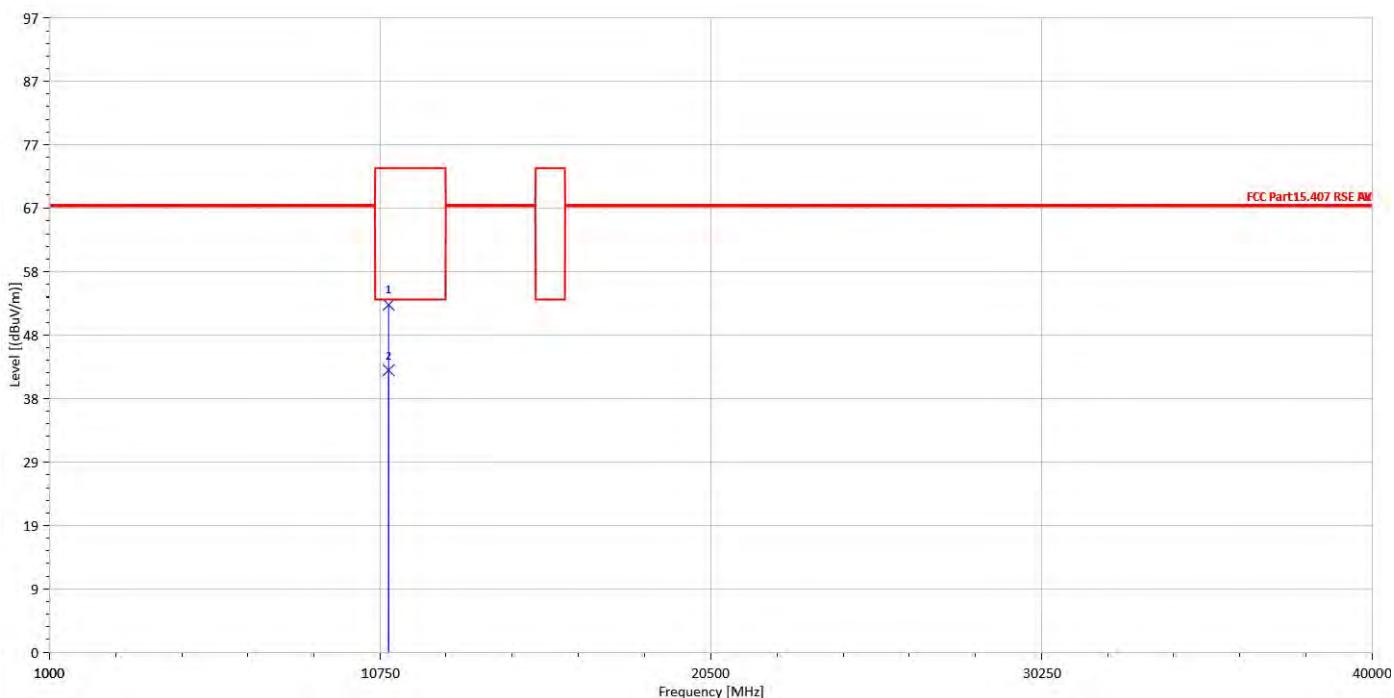
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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode : 802.11a Test Date : 2016/8/25
Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



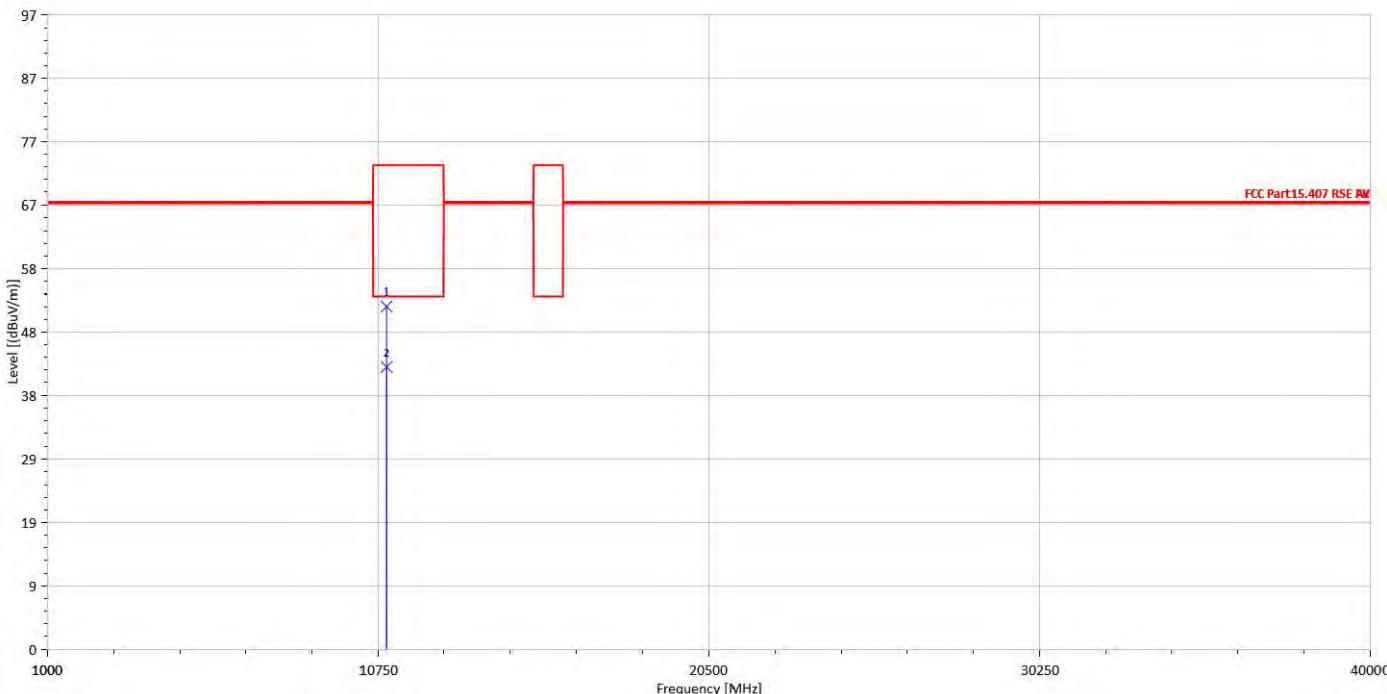
| Freq. | Note | Detector Mode | Spectrum Reading | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | Level dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 11000.00 | H | Peak | 31.09 | 22.11 | 53.20 | 74 | -20.80 |
| 11000.00 | H | Average | 20.99 | 22.11 | 43.10 | 54 | -10.90 |

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Operation Mode : 802.11a Test Date : 2016/8/25
Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @ 3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|-------------------------------|--------------|
| 11000.00 | H | Peak | 30.35 | 22.11 | 52.46 | 74 | -21.54 |
| 11000.00 | H | Average | 21.02 | 22.11 | 43.13 | 54 | -10.87 |

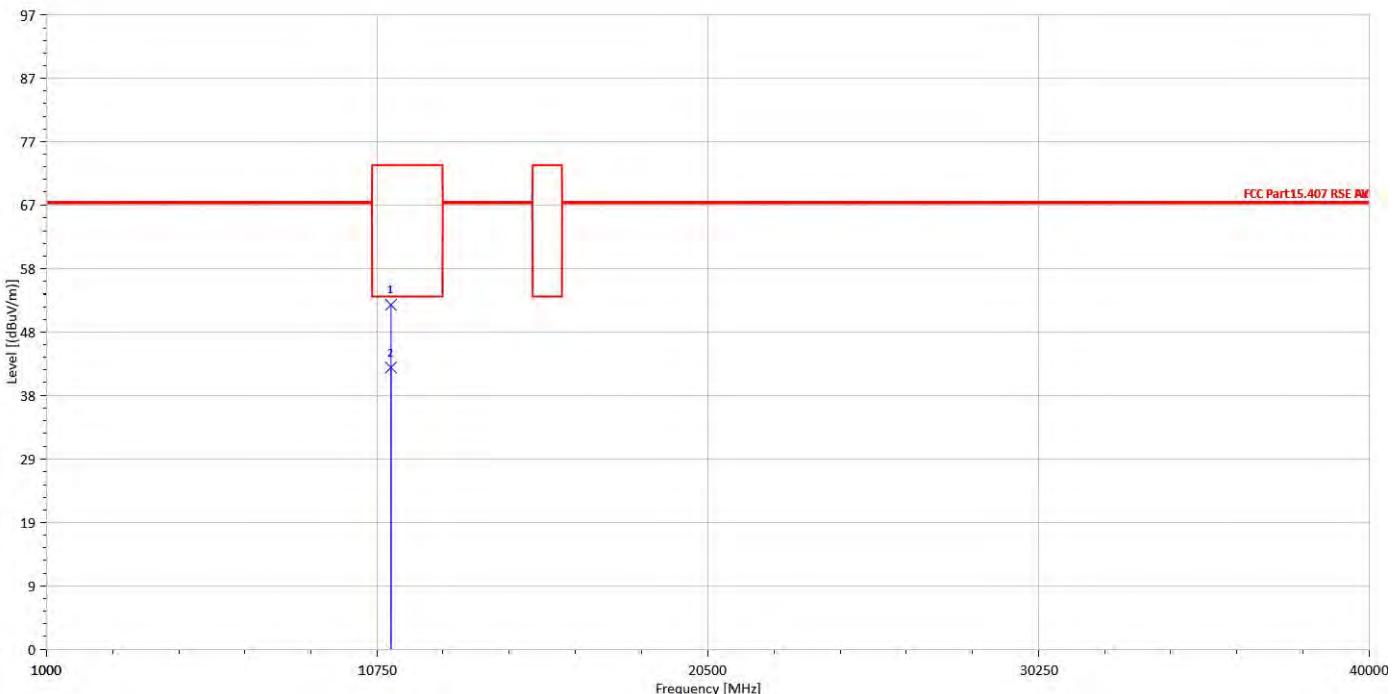
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Operation Mode : 802.11a Test Date : 2016/8/25
Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11160.00 | H | Peak | 30.67 | 22.04 | 52.71 | 74 | -21.29 |
| 11160.00 | H | Average | 21.02 | 22.04 | 43.06 | 54 | -10.94 |

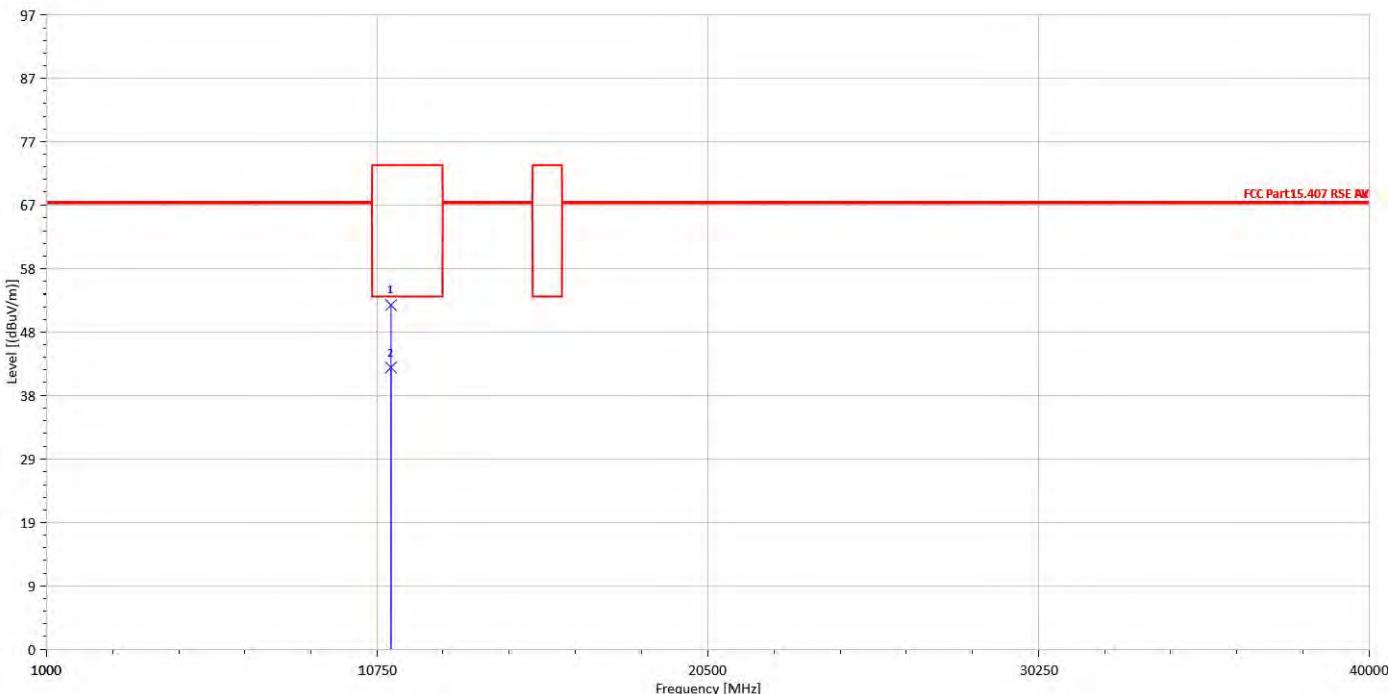
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Operation Mode : 802.11a Test Date : 2016/8/25
Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11160.00 | H | Peak | 30.64 | 22.04 | 52.68 | 74 | -21.32 |
| 11160.00 | H | Average | 21.02 | 22.04 | 43.06 | 54 | -10.94 |

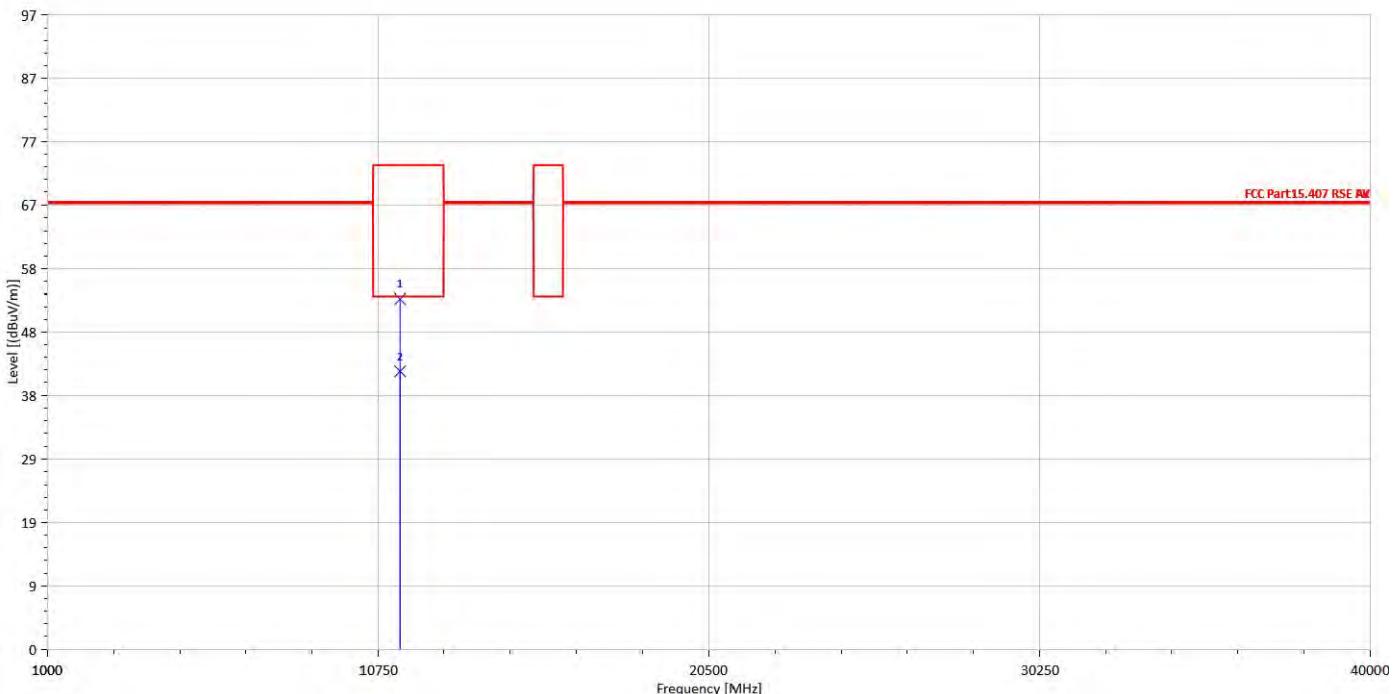
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Operation Mode : 802.11a Test Date : 2016/8/25
Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @ 3m dBµV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|-------------------------|--------------|
| 11400.00 | H | Peak | 32.38 | 21.22 | 53.60 | 74 | -20.40 |
| 11400.00 | H | Average | 21.25 | 21.22 | 42.47 | 54 | -11.53 |

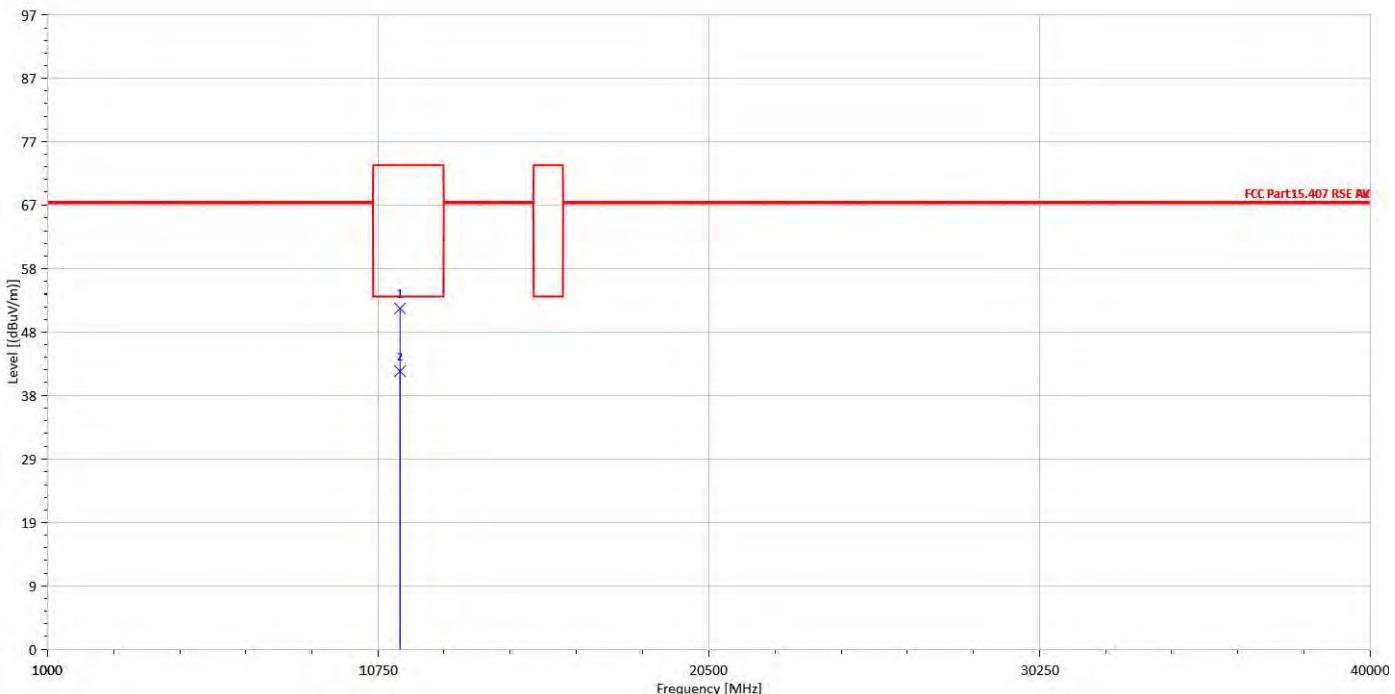
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Operation Mode : 802.11a Test Date : 2016/8/25
Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @ 3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|-------------------------------|--------------|
| 11400.00 | H | Peak | 30.95 | 21.22 | 52.16 | 74 | -21.84 |
| 11400.00 | H | Average | 21.26 | 21.22 | 42.48 | 54 | -11.52 |

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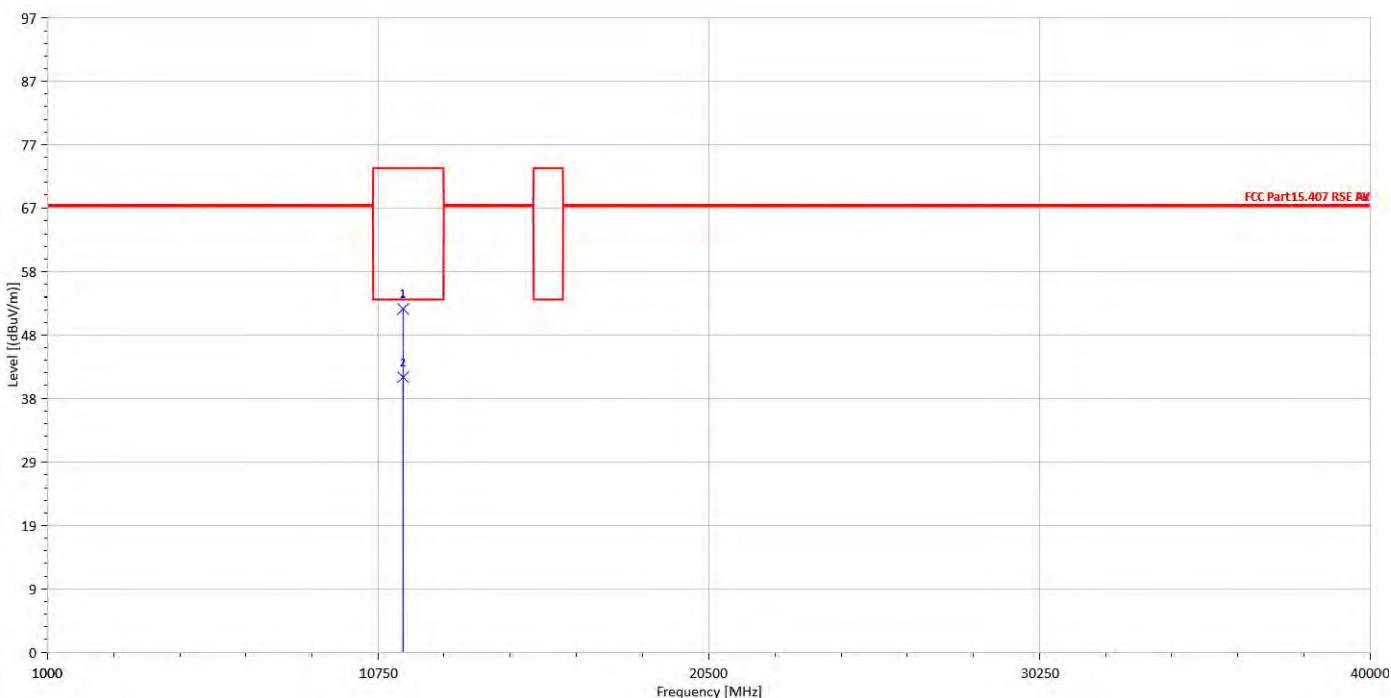
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Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode : 802.11a Test Date : 2016/8/25
Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. | Note | Detector Mode | Spectrum Reading | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | Level dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 11490.00 | H | Peak | 31.85 | 20.70 | 52.55 | 74 | -21.45 |
| 11490.00 | H | Average | 21.30 | 20.70 | 42.00 | 54 | -12.00 |

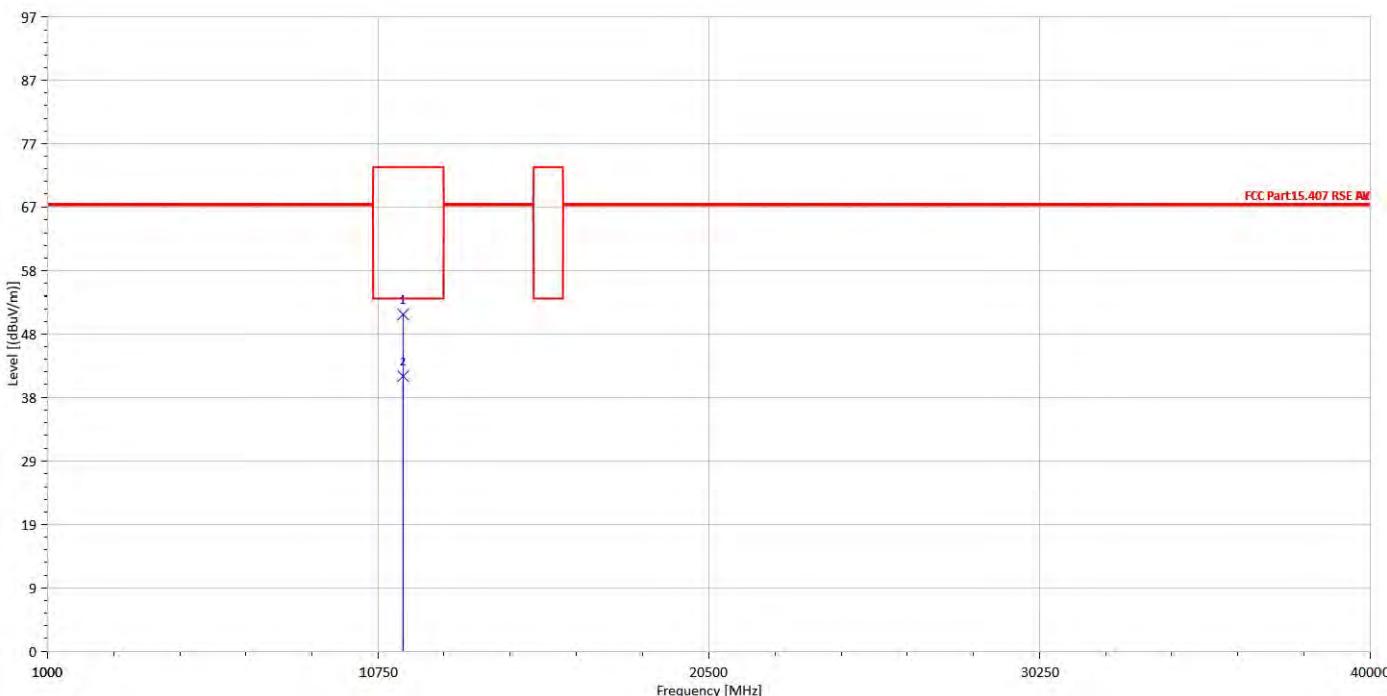
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Operation Mode : 802.11a Test Date : 2016/8/25
Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @ 3m dBµV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|-------------------------|--------------|
| 11490.00 | H | Peak | 30.85 | 20.70 | 51.55 | 74 | -22.45 |
| 11490.00 | H | Average | 21.30 | 20.70 | 42.00 | 54 | -12.00 |

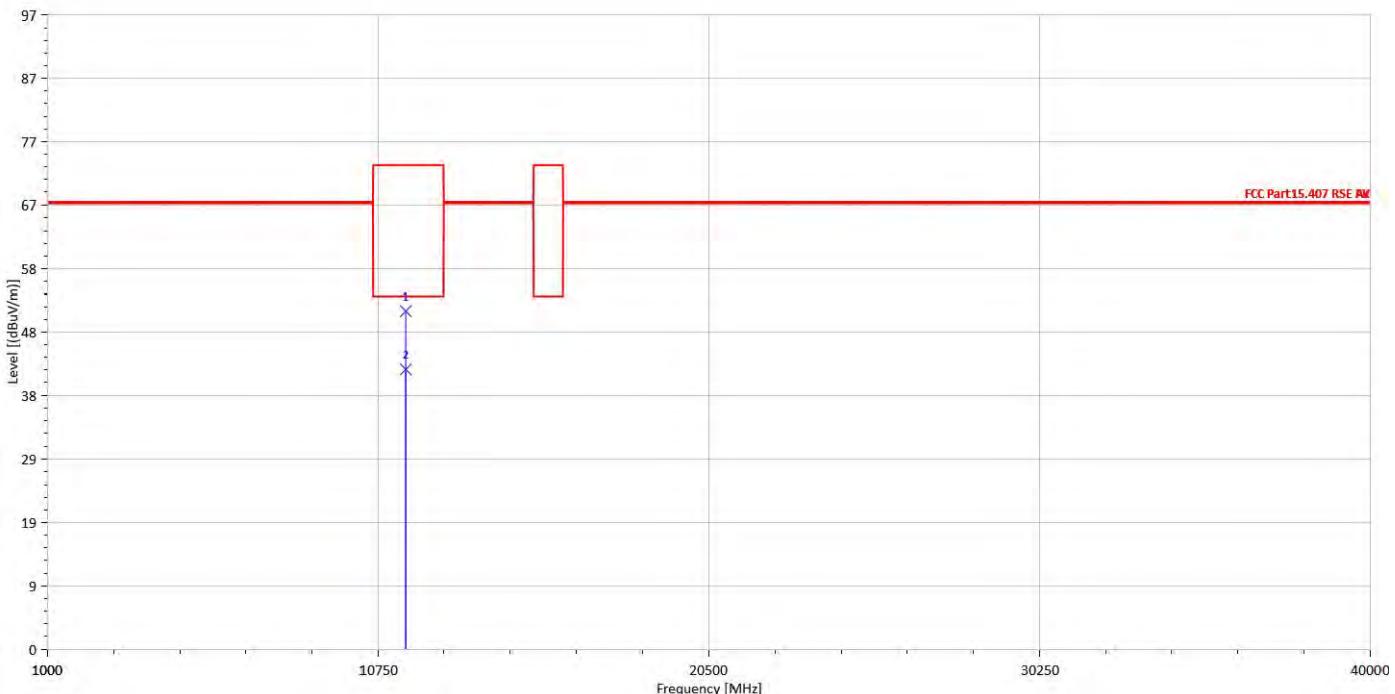
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Operation Mode : 802.11a Test Date : 2016/8/25
Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @ 3m dBµV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|-------------------------|--------------|
| 11570.00 | H | Peak | 30.31 | 21.44 | 51.75 | 74 | -22.25 |
| 11570.00 | H | Average | 21.30 | 21.44 | 42.74 | 54 | -11.26 |

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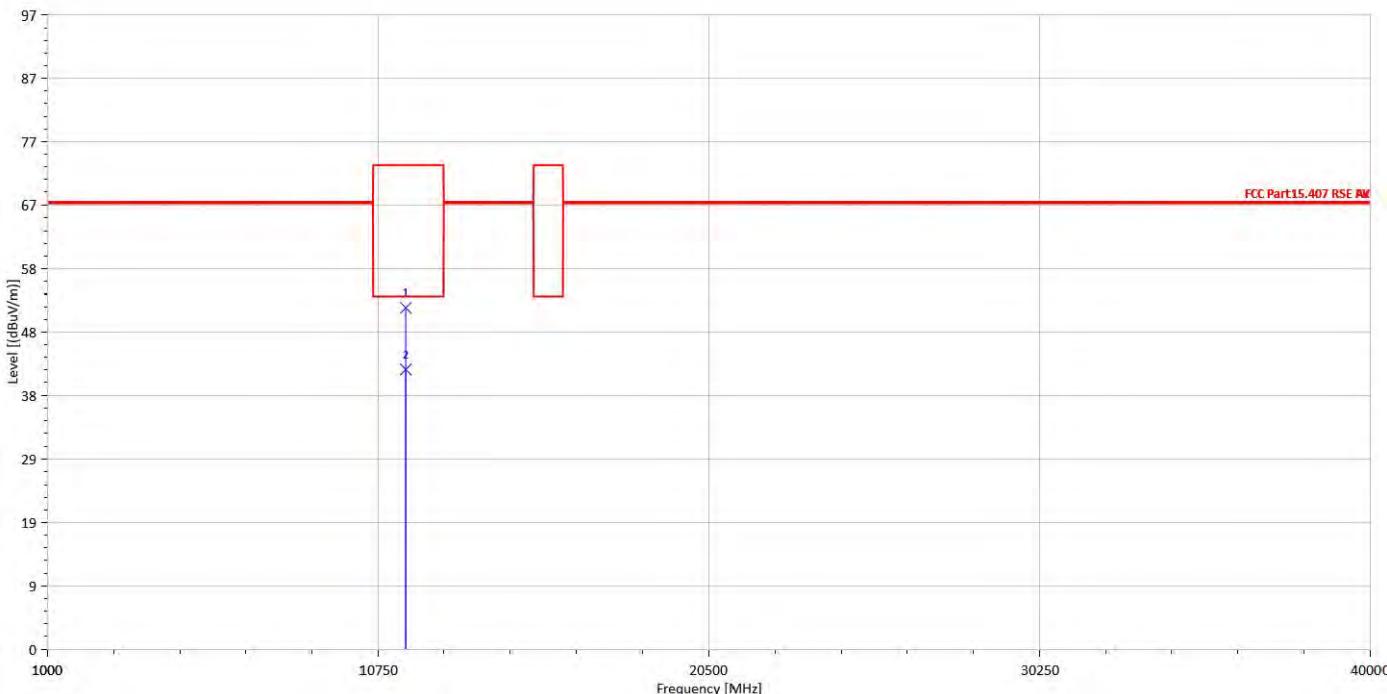
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Operation Mode : 802.11a Test Date : 2016/8/25
Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @ 3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|-------------------------------|--------------|
| 11570.00 | H | Peak | 30.80 | 21.44 | 52.24 | 74 | -21.76 |
| 11570.00 | H | Average | 21.29 | 21.44 | 42.73 | 54 | -11.27 |

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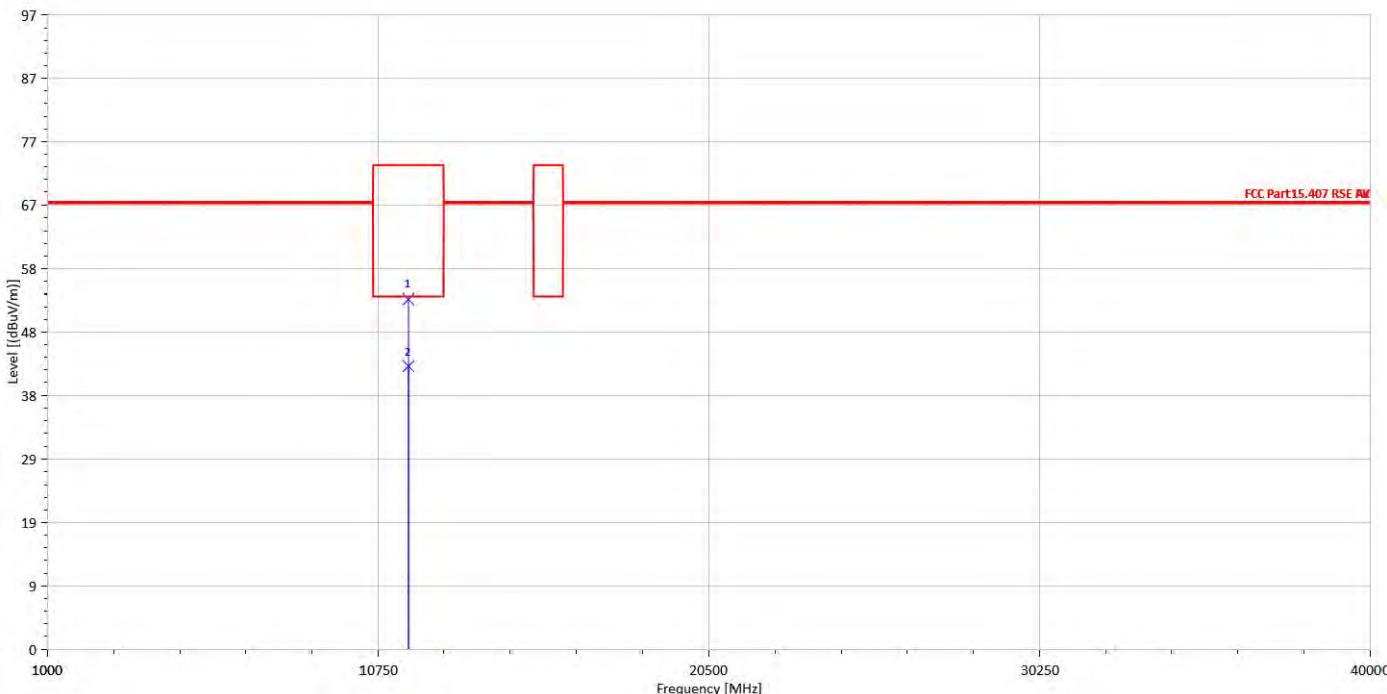
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Operation Mode : 802.11a Test Date : 2016/8/25
Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @ 3m dBµV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|-------------------------|--------------|
| 11650.00 | H | Peak | 31.54 | 22.02 | 53.56 | 74 | -20.44 |
| 11650.00 | H | Average | 21.22 | 22.02 | 43.24 | 54 | -10.76 |

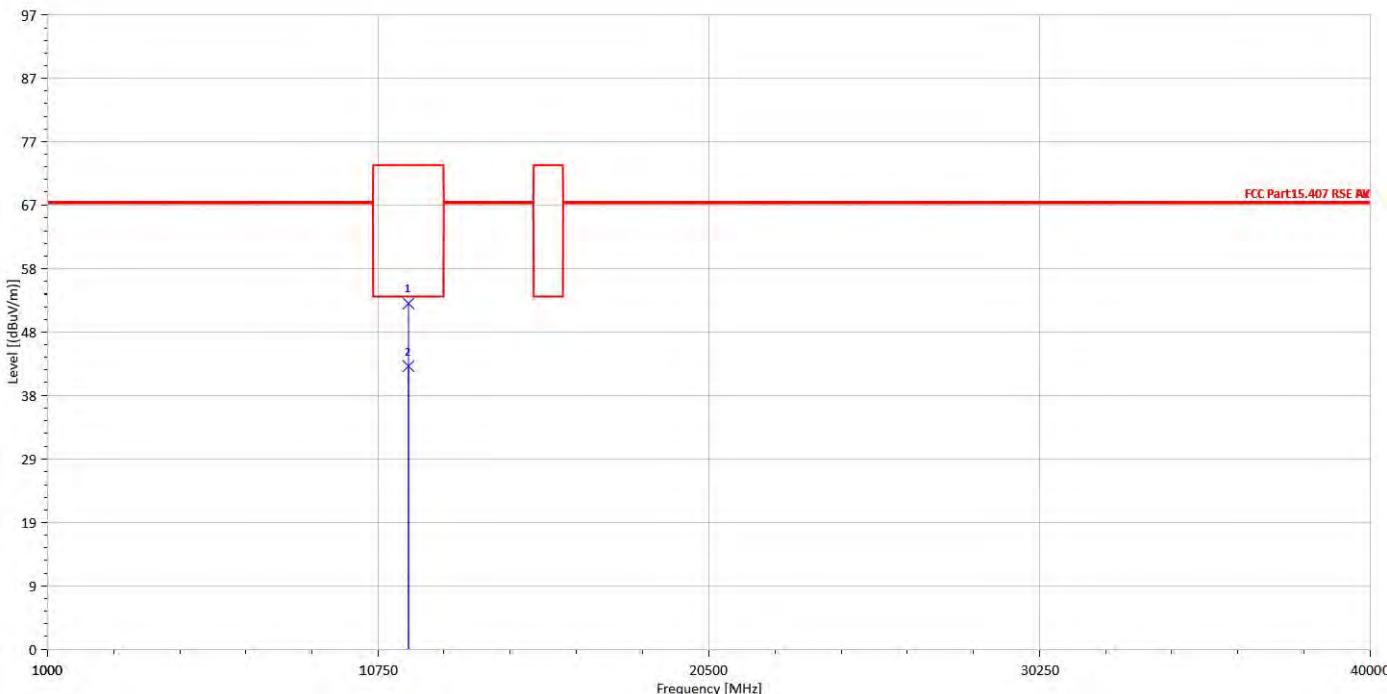
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Operation Mode : 802.11a Test Date : 2016/8/25
Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @ 3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|-------------------------------|--------------|
| 11650.00 | H | Peak | 30.92 | 22.02 | 52.94 | 74 | -21.06 |
| 11650.00 | H | Average | 21.23 | 22.02 | 43.25 | 54 | -10.75 |

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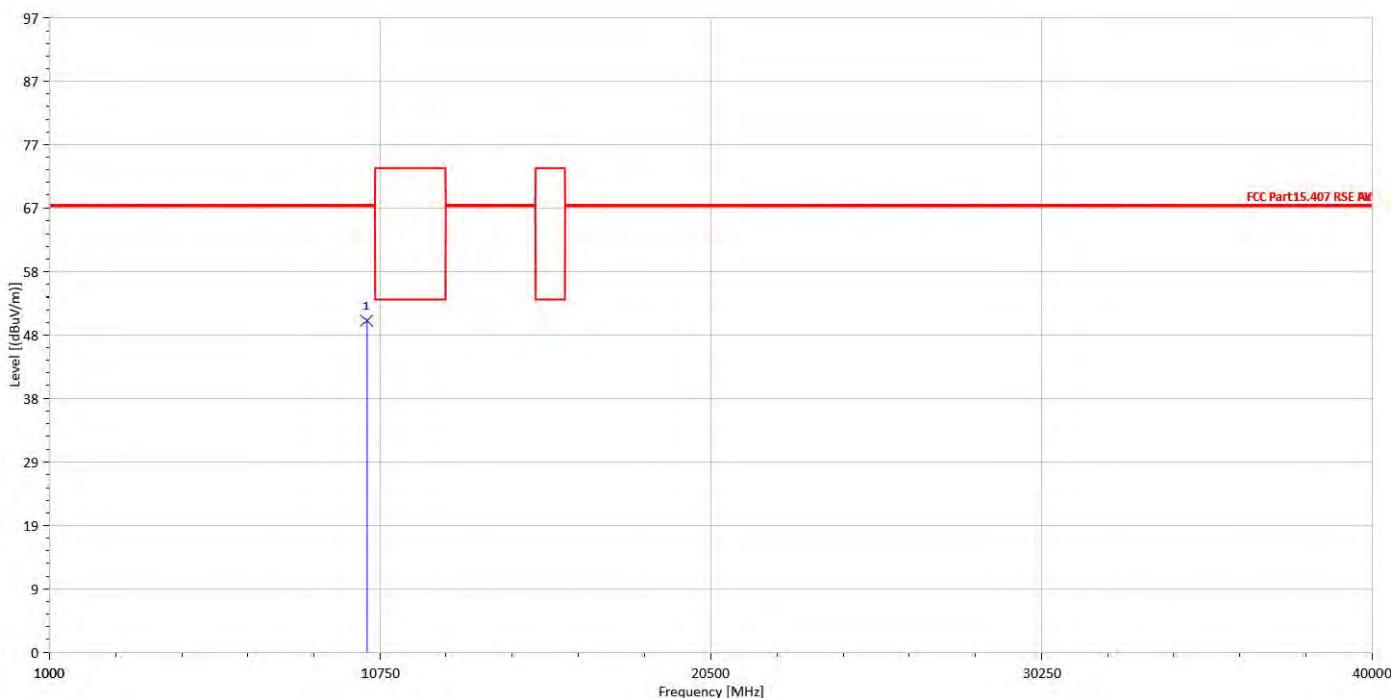
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode : 802.11n20 Test Date : 2016/8/25
Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10360.00 | H | Peak | 30.57 | 20.18 | 50.75 | 68.3 | -17.55 |

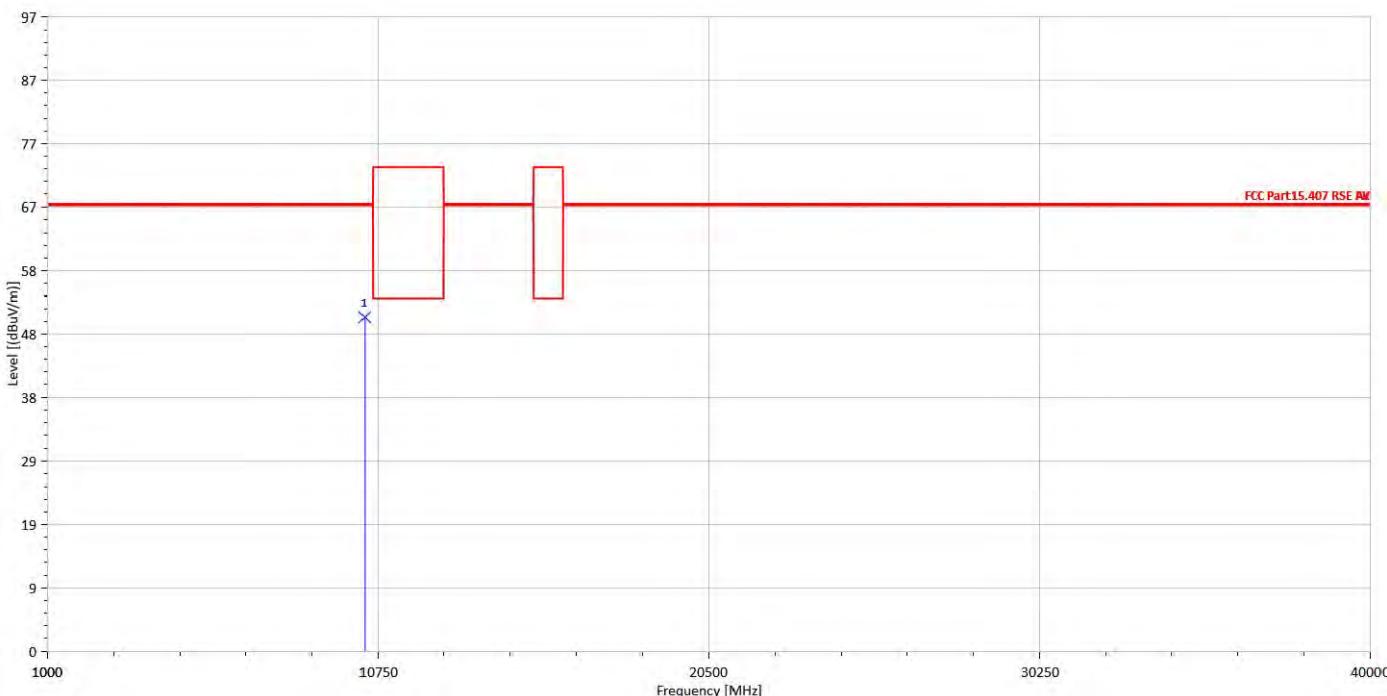
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Operation Mode : 802.11n20 Test Date : 2016/8/25
Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10360.00 | H | Peak | 30.93 | 20.18 | 51.11 | 68.3 | -17.19 |

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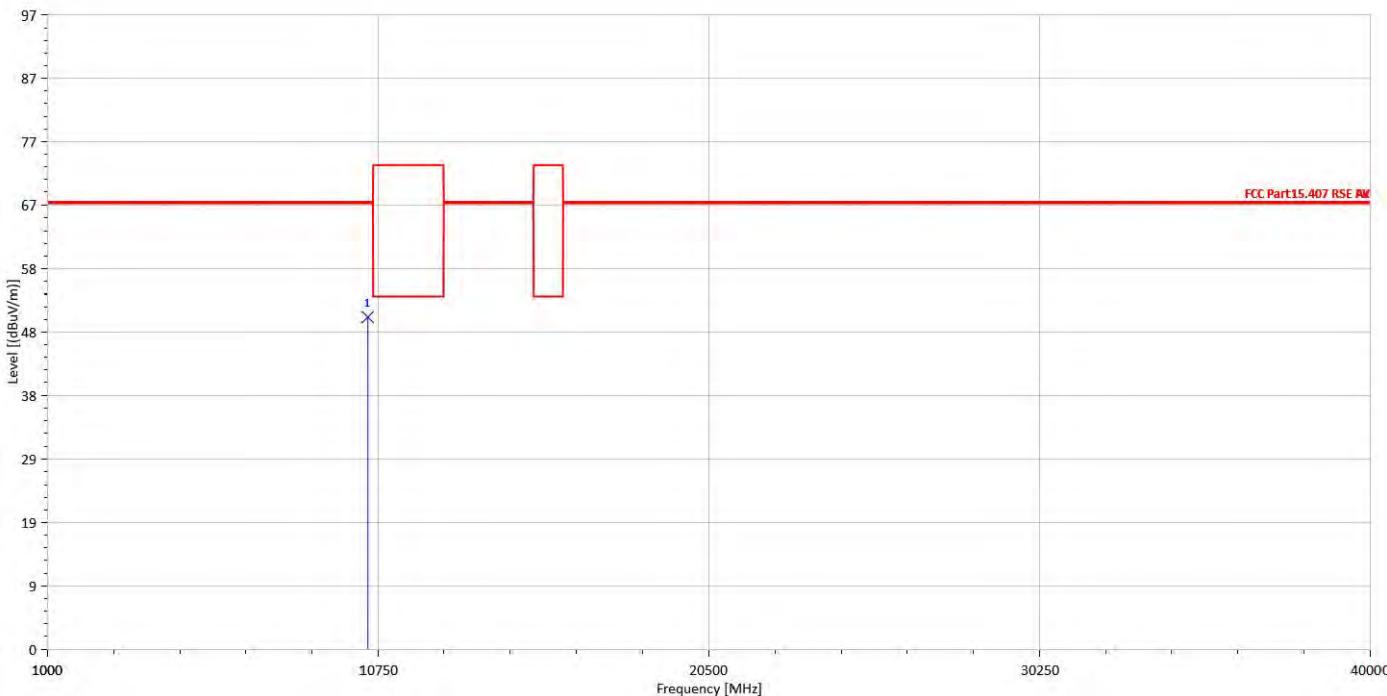
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Operation Mode : 802.11n20 Test Date : 2016/8/25
Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10440.00 | H | Peak | 30.54 | 20.29 | 50.83 | 68.3 | -17.47 |

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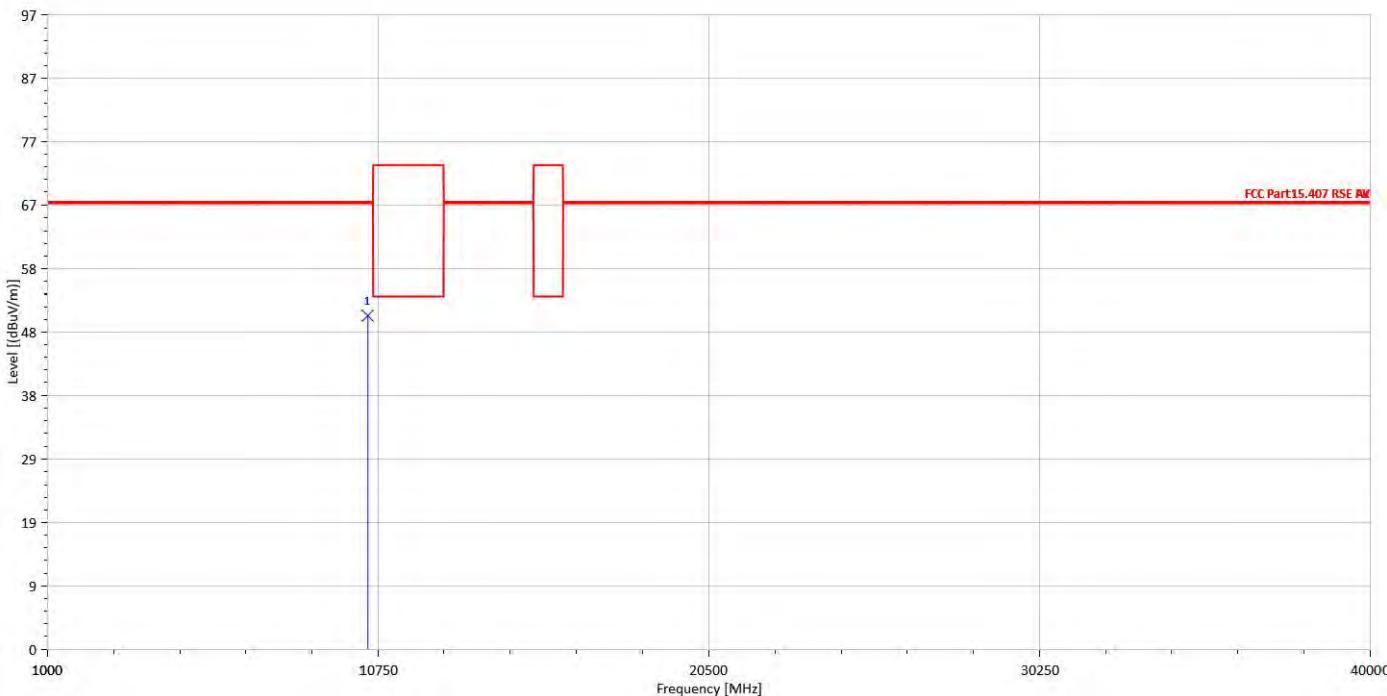
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Operation Mode : 802.11n20 Test Date : 2016/8/25
Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10440.00 | H | Peak | 30.75 | 20.29 | 51.05 | 68.3 | -17.25 |

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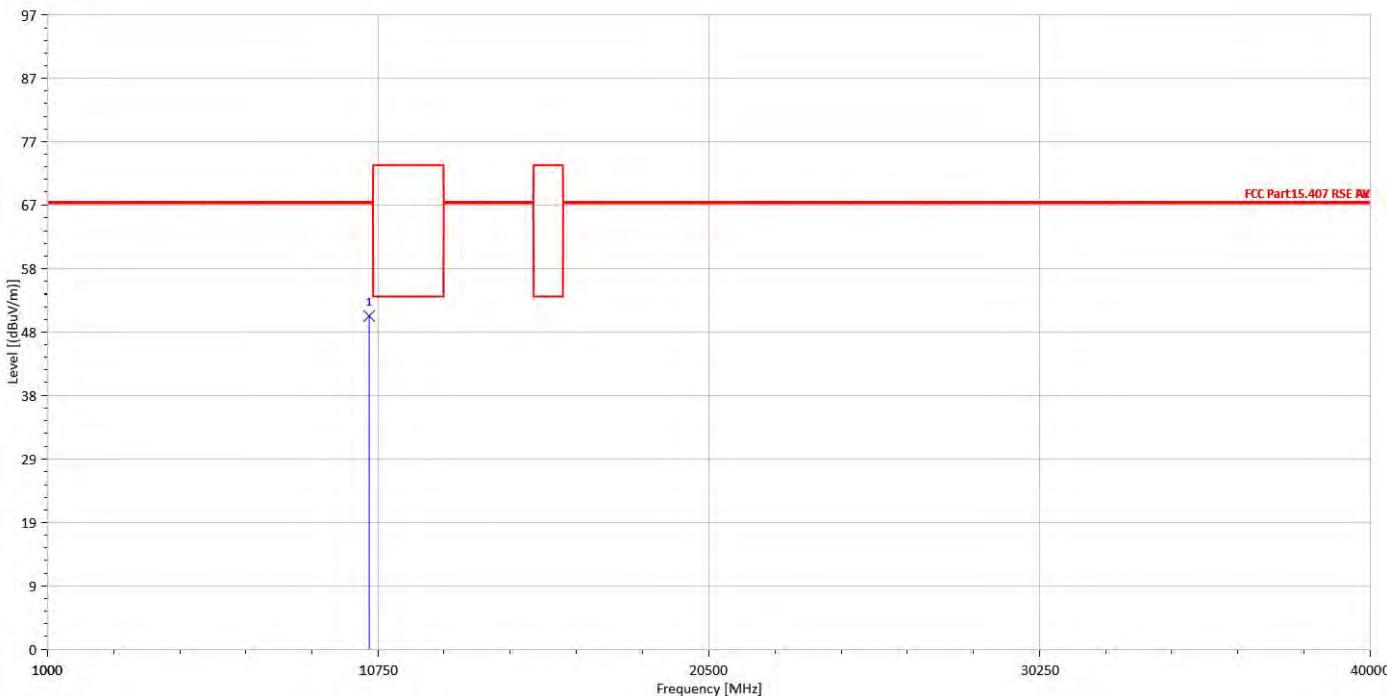
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Operation Mode : 802.11n20 Test Date : 2016/8/25
Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10480.00 | H | Peak | 30.32 | 20.68 | 51.00 | 68.3 | -17.30 |

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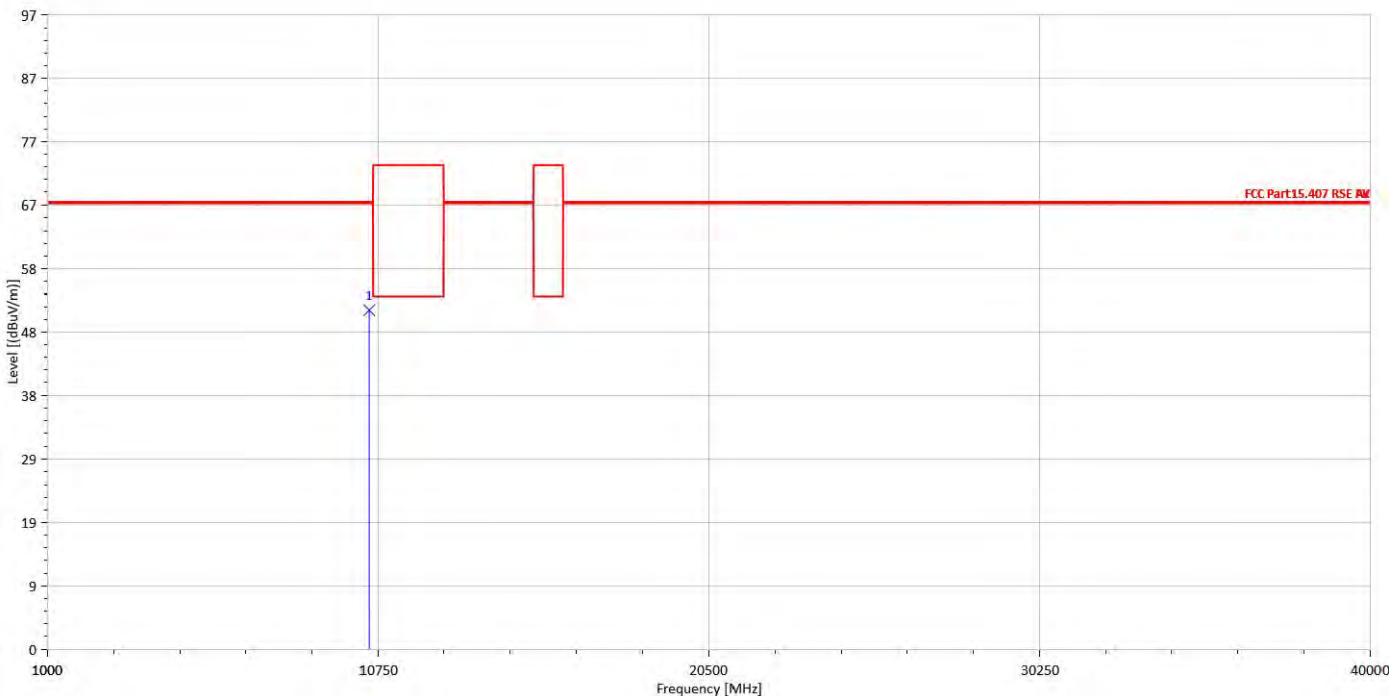
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Operation Mode : 802.11n20 Test Date : 2016/8/25
Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10480.00 | H | Peak | 31.23 | 20.68 | 51.91 | 68.3 | -16.39 |

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t (886-2) 2299-3279

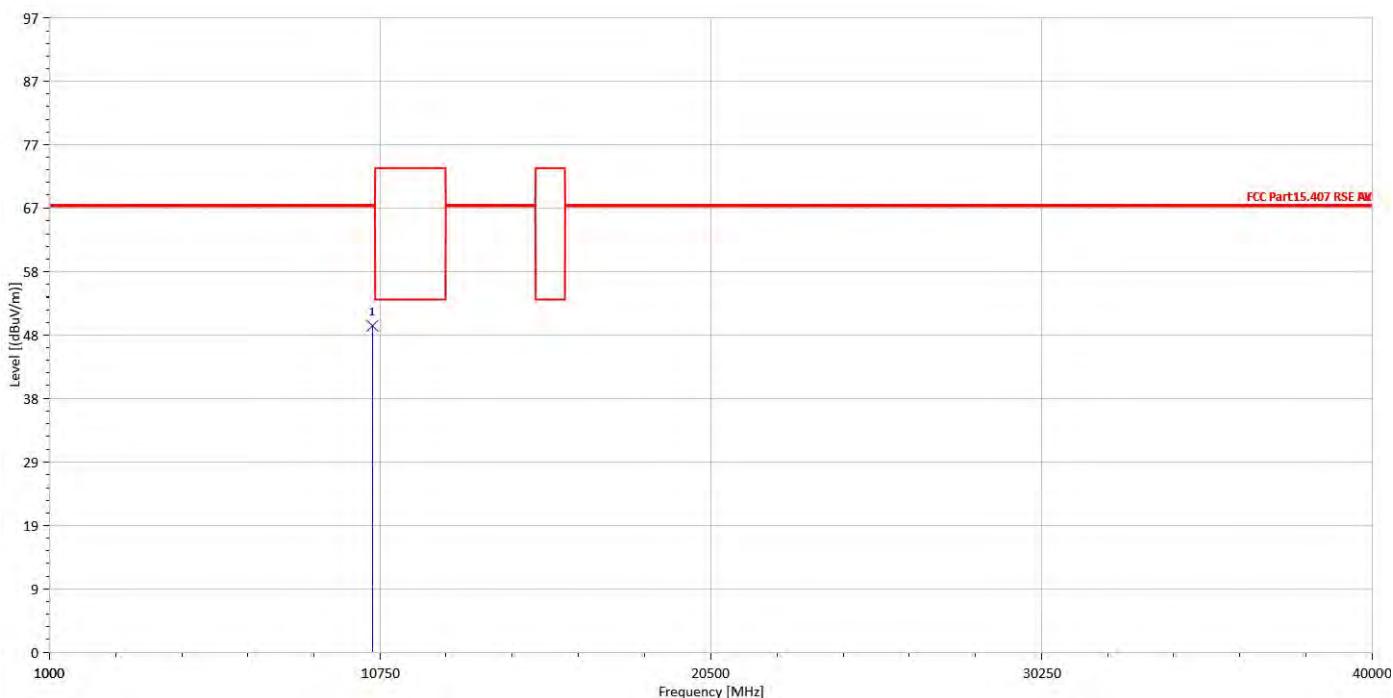
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode : 802.11n20 Test Date : 2016/8/25
Fundamental Frequency : 5260 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10520.00 | H | Peak | 29.85 | 20.10 | 49.95 | 68.3 | -18.35 |

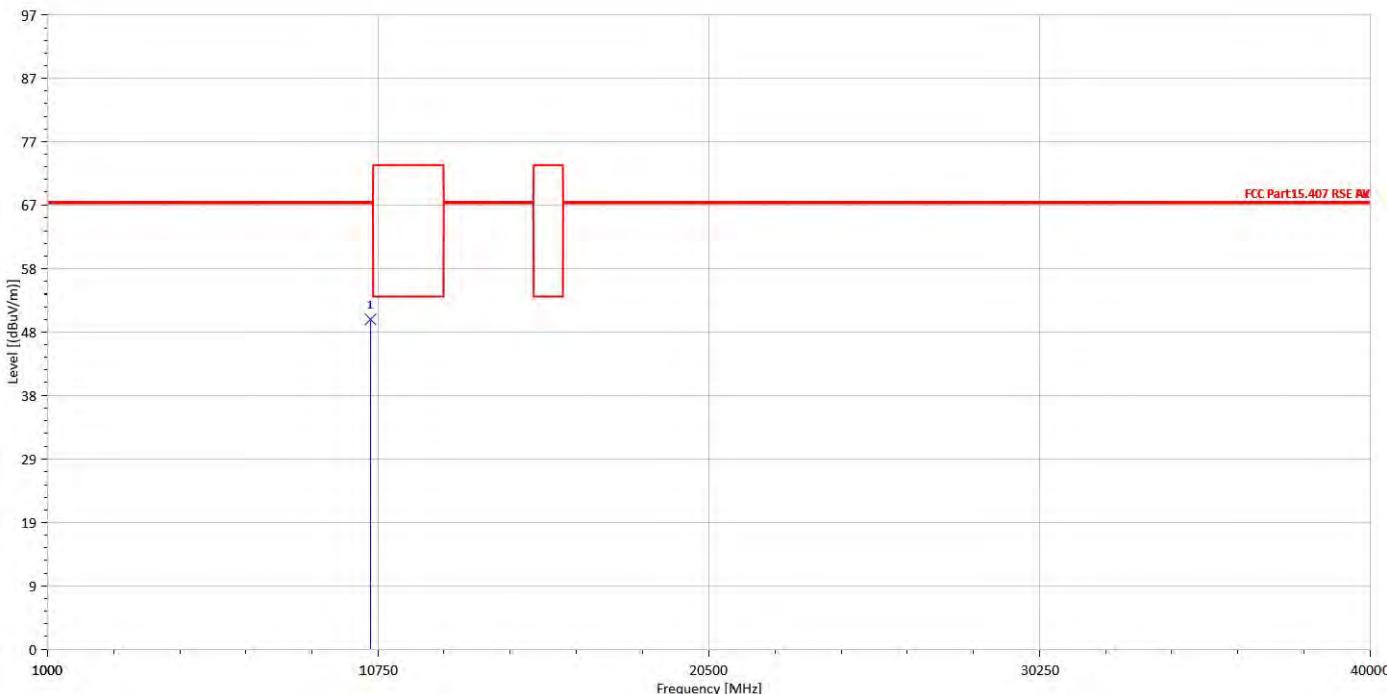
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Operation Mode : 802.11n20 Test Date : 2016/8/25
Fundamental Frequency : 5260 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10520.00 | H | Peak | 30.38 | 20.10 | 50.48 | 68.3 | -17.82 |

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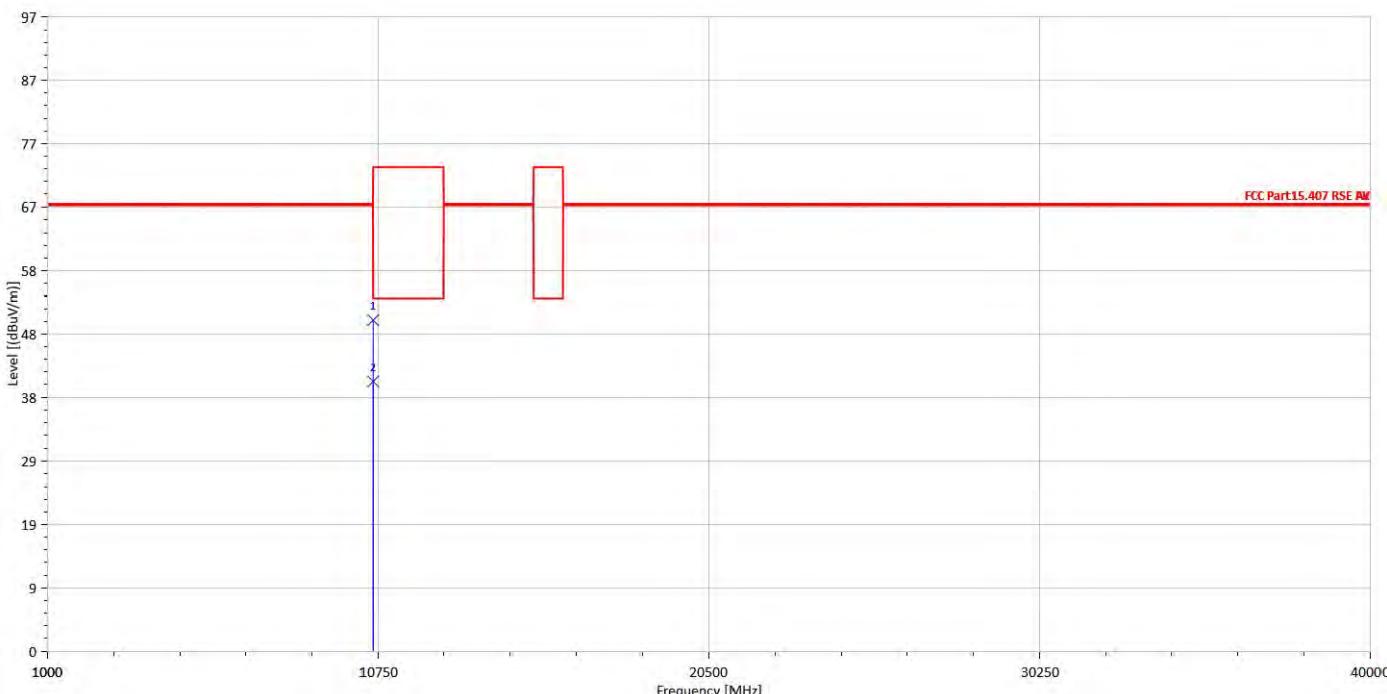
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Operation Mode : 802.11n20 Test Date : 2016/8/25
Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10600.00 | H | Peak | 30.49 | 20.17 | 50.66 | 74 | -23.34 |
| 10600.00 | H | Average | 21.03 | 20.17 | 41.20 | 54 | -12.80 |

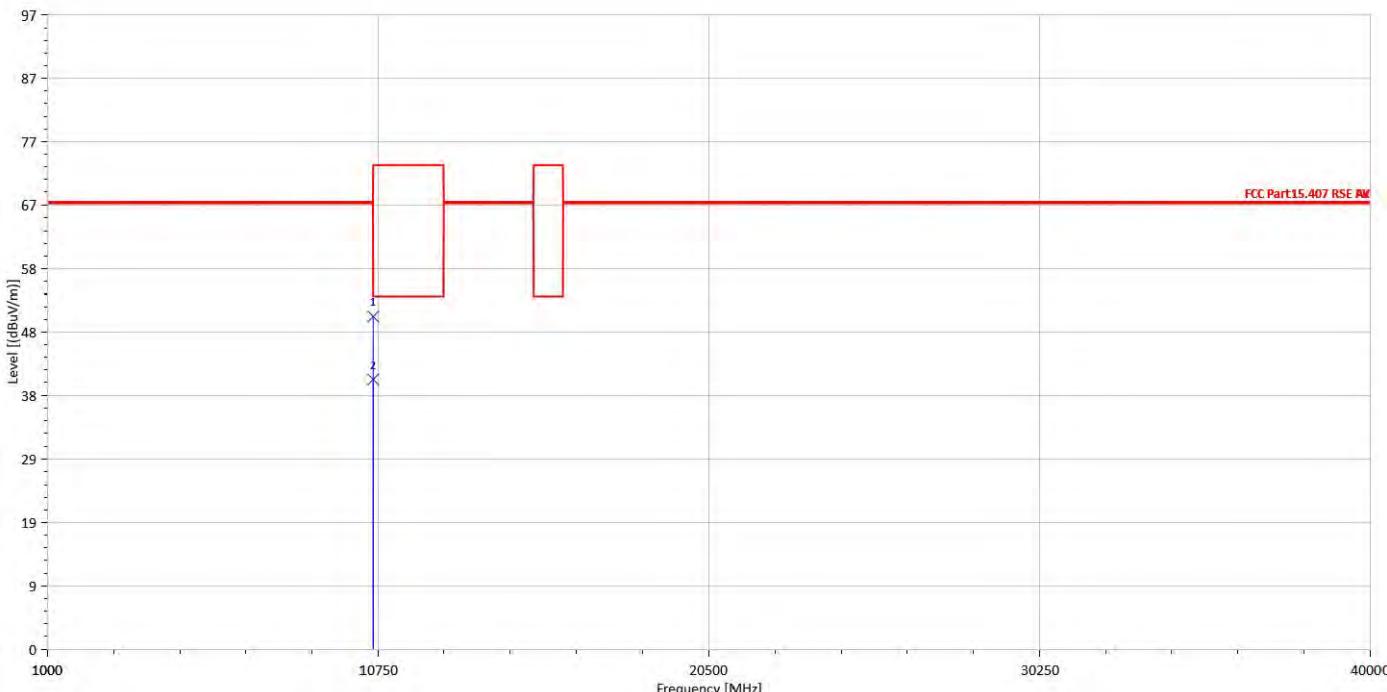
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Operation Mode : 802.11n20 Test Date : 2016/8/25
Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10600.00 | H | Peak | 30.75 | 20.17 | 50.92 | 74 | -23.08 |
| 10600.00 | H | Average | 21.03 | 20.17 | 41.20 | 54 | -12.80 |

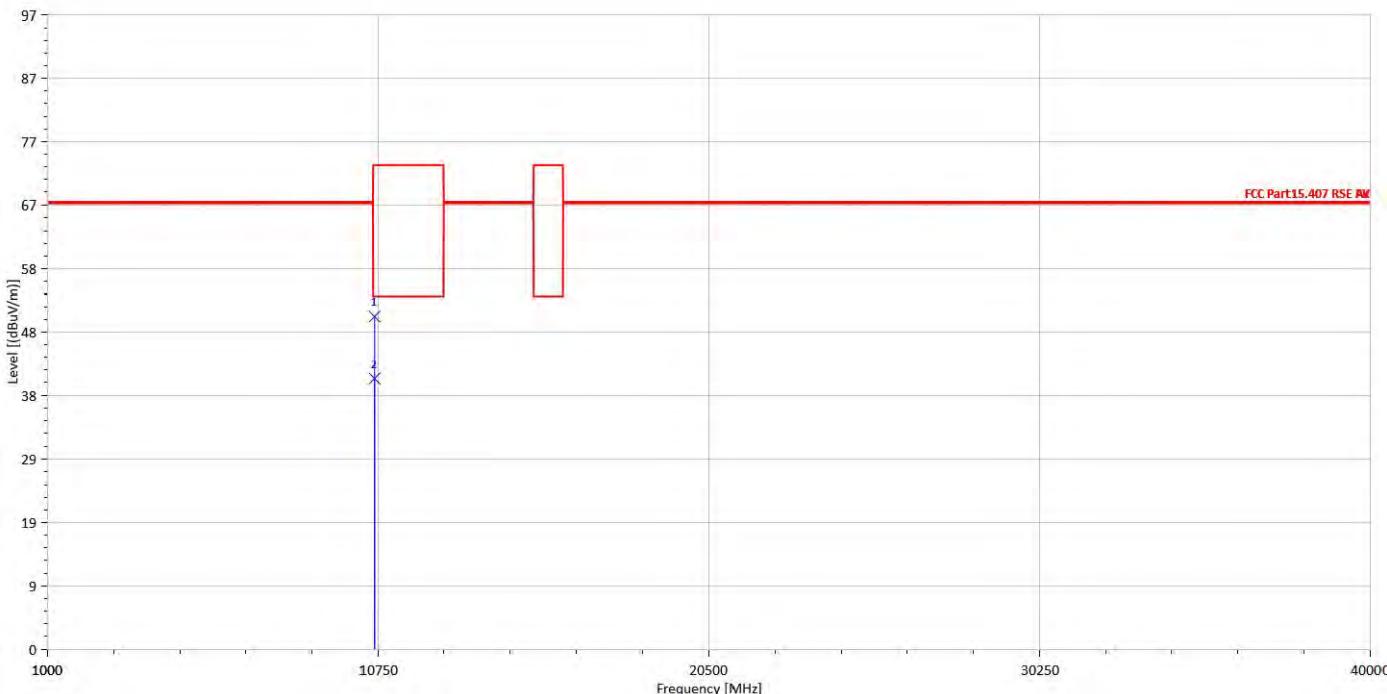
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Operation Mode : 802.11n20 Test Date : 2016/8/25
Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10640.00 | H | Peak | 30.58 | 20.34 | 50.92 | 74 | -23.08 |
| 10640.00 | H | Average | 21.01 | 20.34 | 41.35 | 54 | -12.65 |

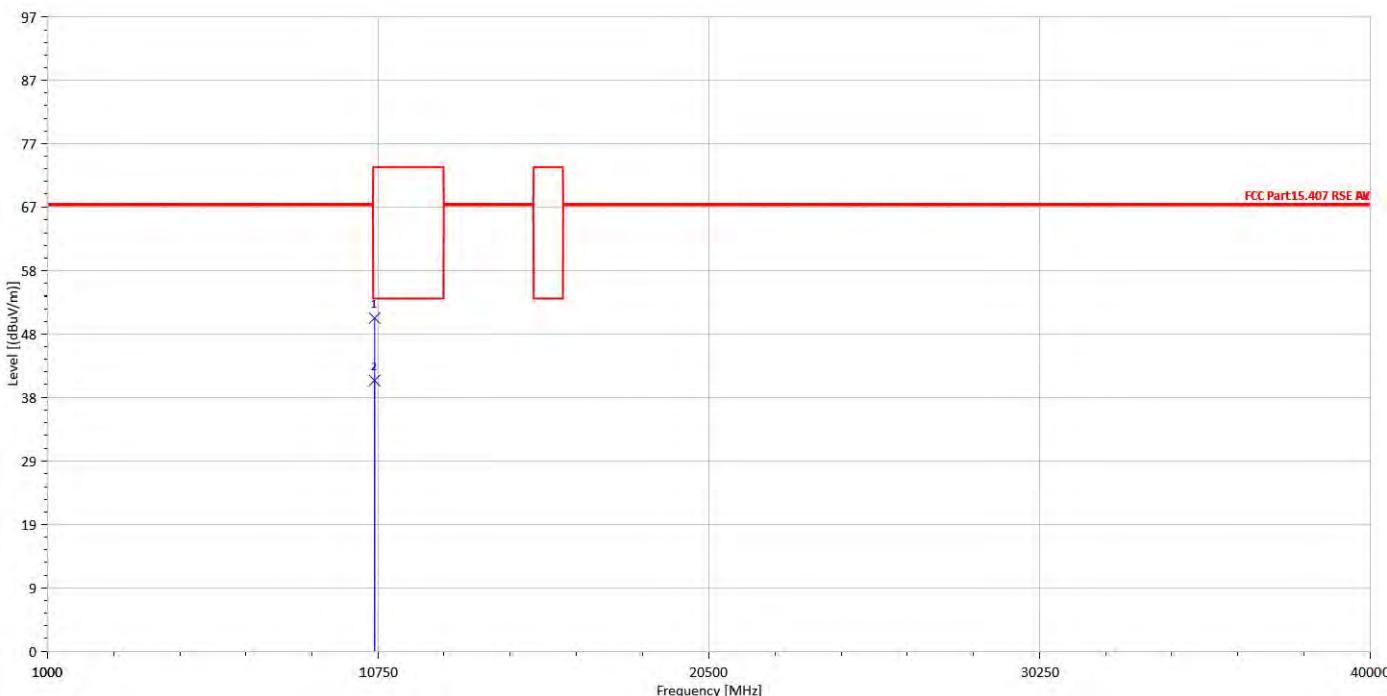
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Operation Mode : 802.11n20 Test Date : 2016/8/25
Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10640.00 | H | Peak | 30.65 | 20.34 | 50.99 | 74 | -23.01 |
| 10640.00 | H | Average | 21.00 | 20.34 | 41.34 | 54 | -12.66 |

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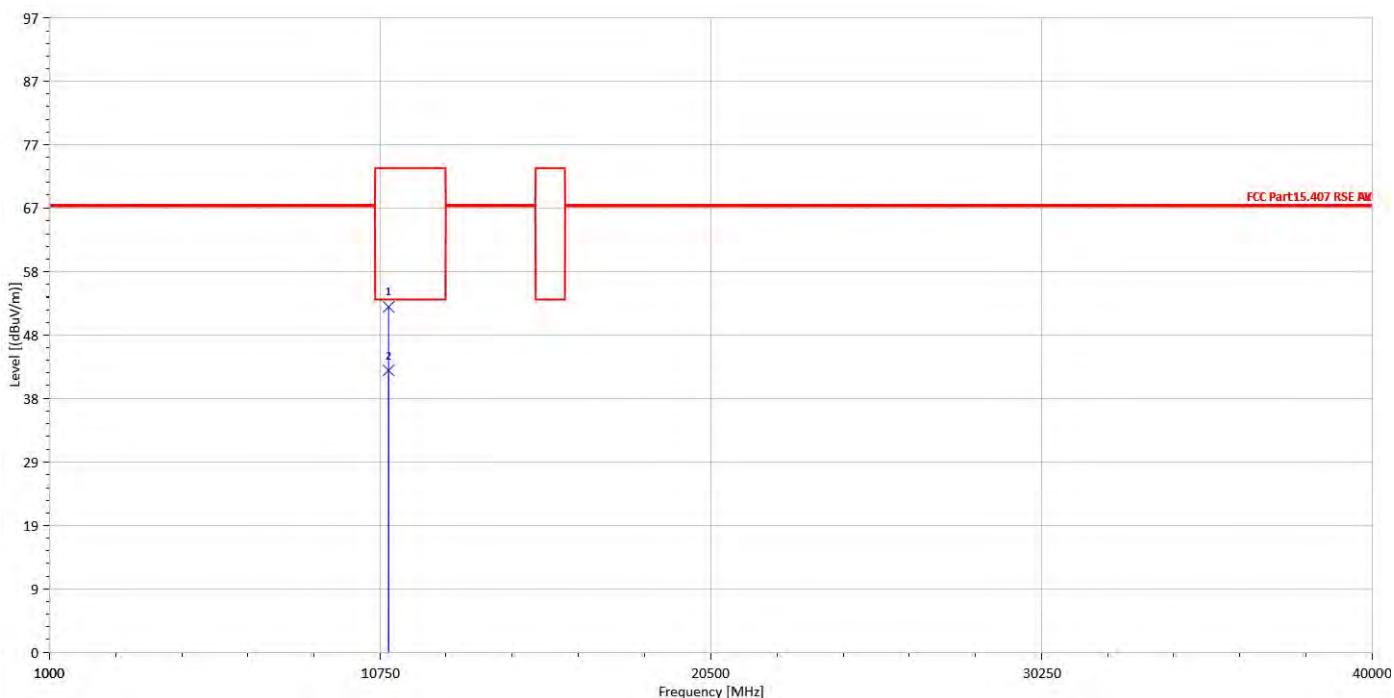
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode : 802.11n20 Test Date : 2016/8/25
Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. | Note | Detector Mode | Spectrum Reading | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | Level dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 11000.00 | H | Peak | 30.77 | 22.11 | 52.87 | 74 | -21.13 |
| 11000.00 | H | Average | 20.97 | 22.11 | 43.08 | 54 | -10.92 |

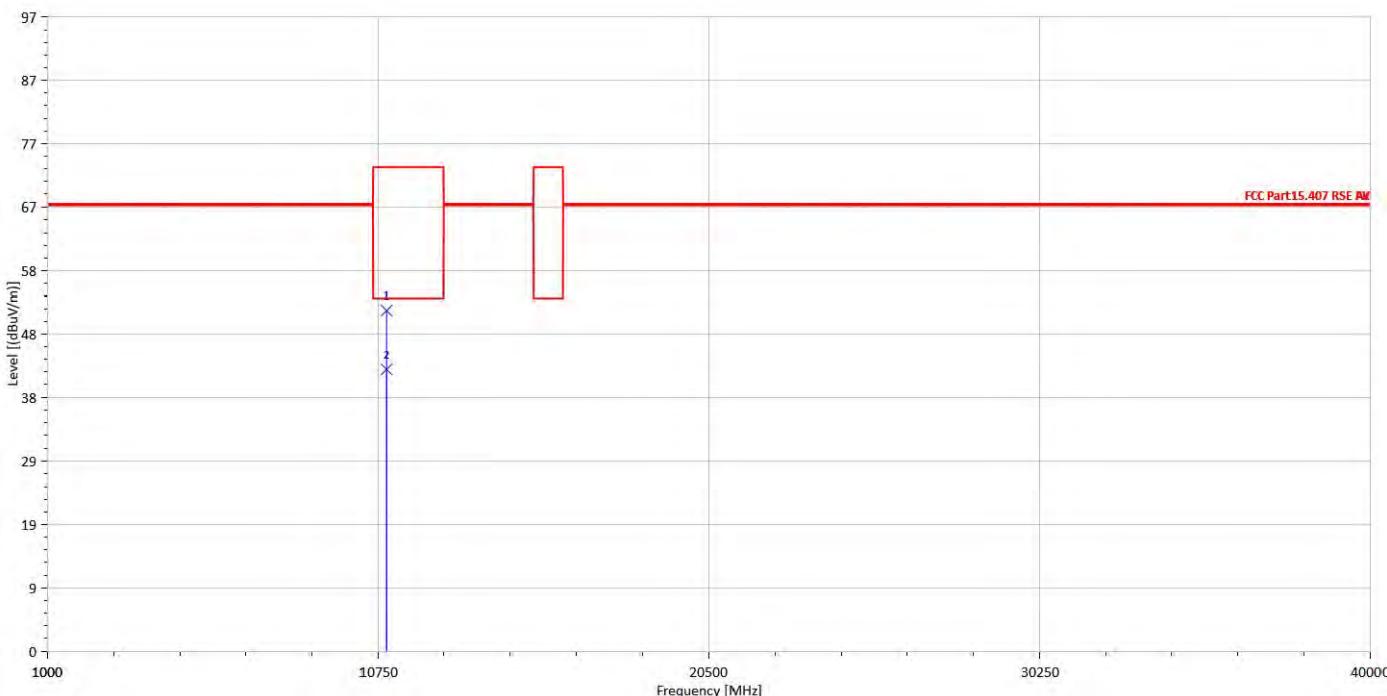
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Operation Mode : 802.11n20 Test Date : 2016/8/25
Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @ 3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|-------------------------------|--------------|
| 11000.00 | H | Peak | 30.02 | 22.11 | 52.13 | 74 | -21.87 |
| 11000.00 | H | Average | 20.97 | 22.11 | 43.08 | 54 | -10.92 |

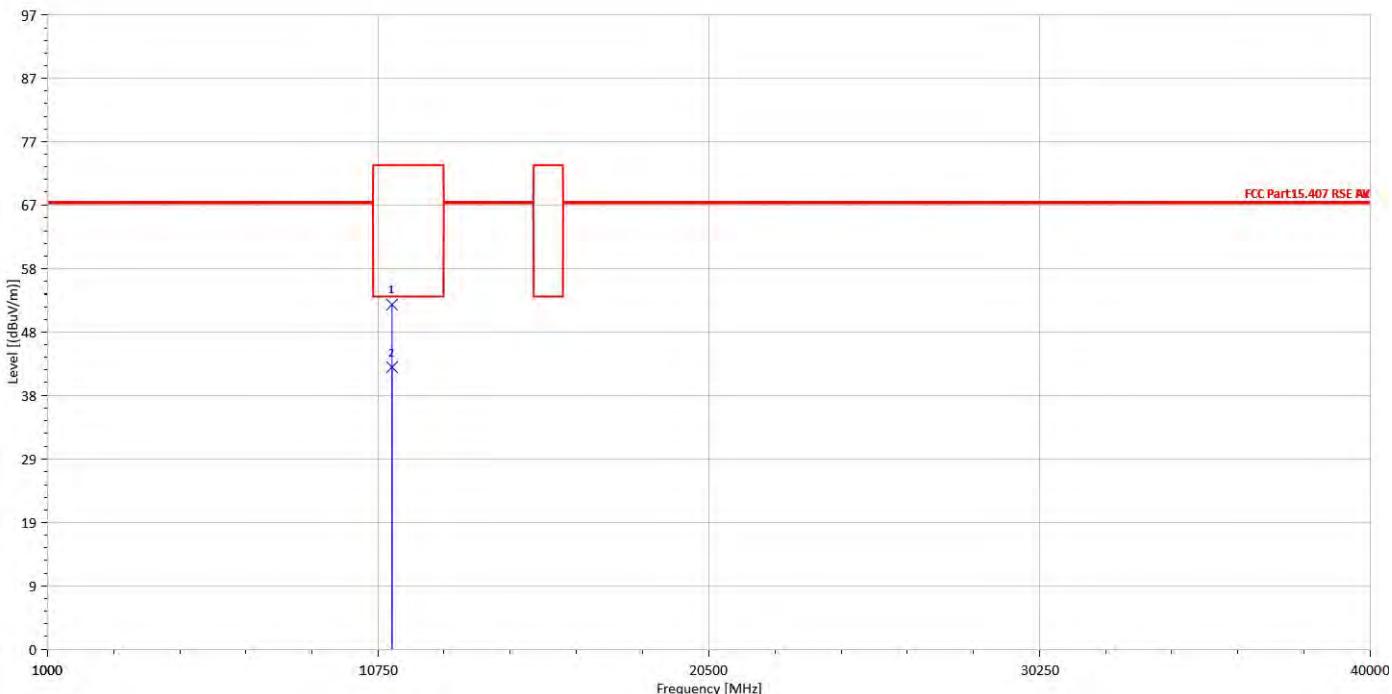
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Operation Mode : 802.11n20 Test Date : 2016/8/25
Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11160.00 | H | Peak | 30.72 | 22.04 | 52.76 | 74 | -21.24 |
| 11160.00 | H | Average | 21.06 | 22.04 | 43.10 | 54 | -10.90 |

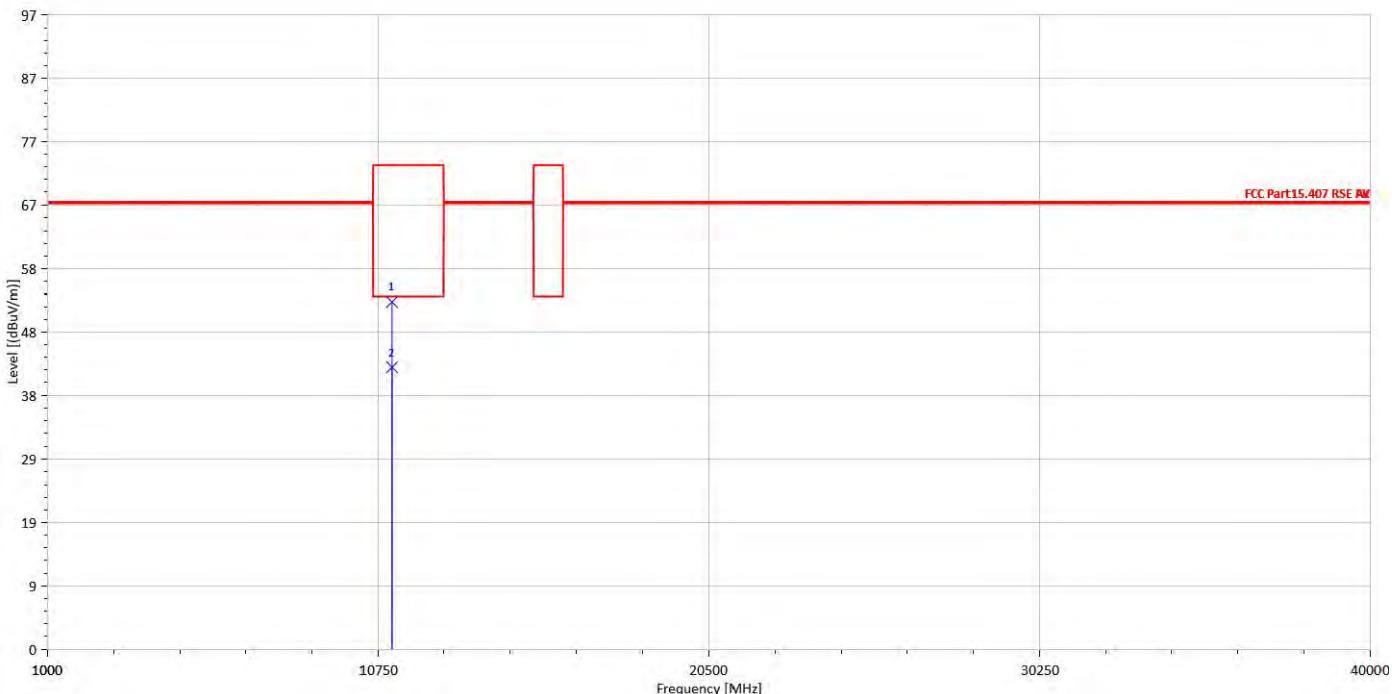
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Operation Mode : 802.11n20 Test Date : 2016/8/25
Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11160.00 | H | Peak | 31.11 | 22.04 | 53.15 | 74 | -20.85 |
| 11160.00 | H | Average | 21.04 | 22.04 | 43.08 | 54 | -10.92 |

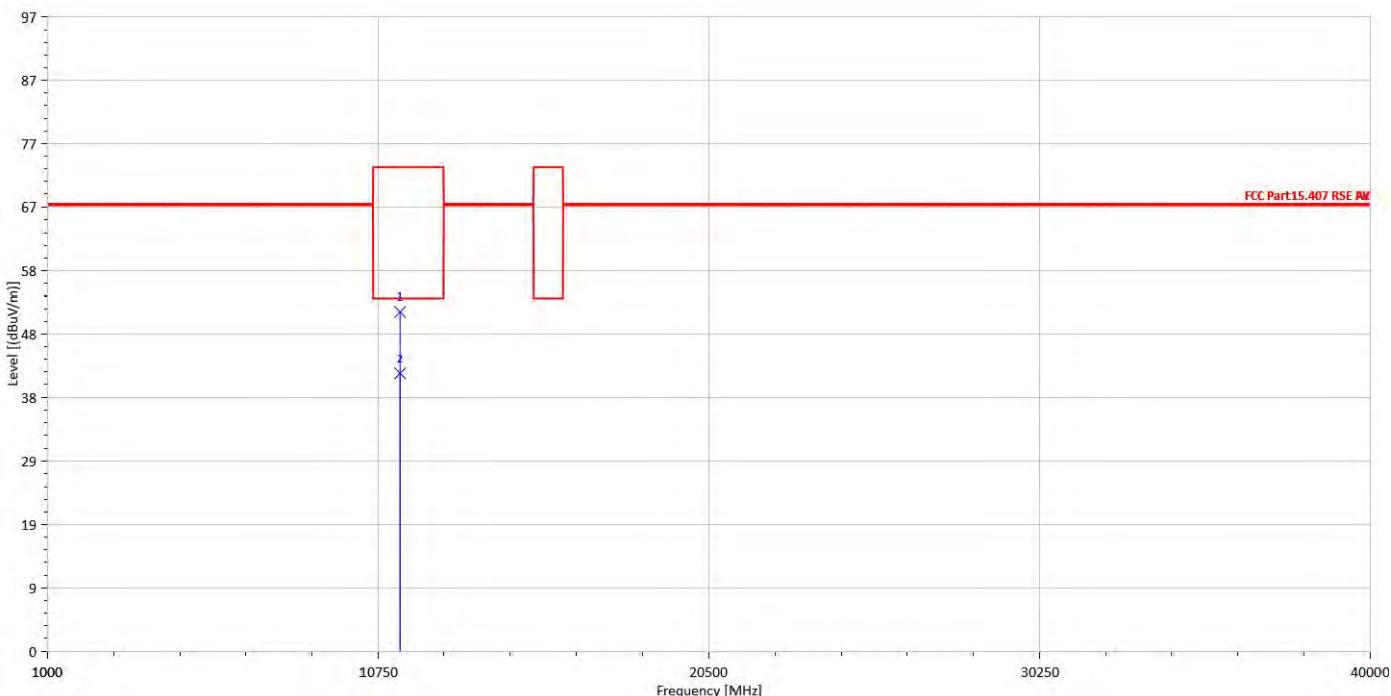
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Operation Mode : 802.11n20 Test Date : 2016/8/25
Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @ 3m | Margin |
|----------|---------|---------------|------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 11400.00 | H | Peak | 30.72 | 21.22 | 51.93 | 74 | -22.07 |
| 11400.00 | H | Average | 21.25 | 21.22 | 42.47 | 54 | -11.53 |

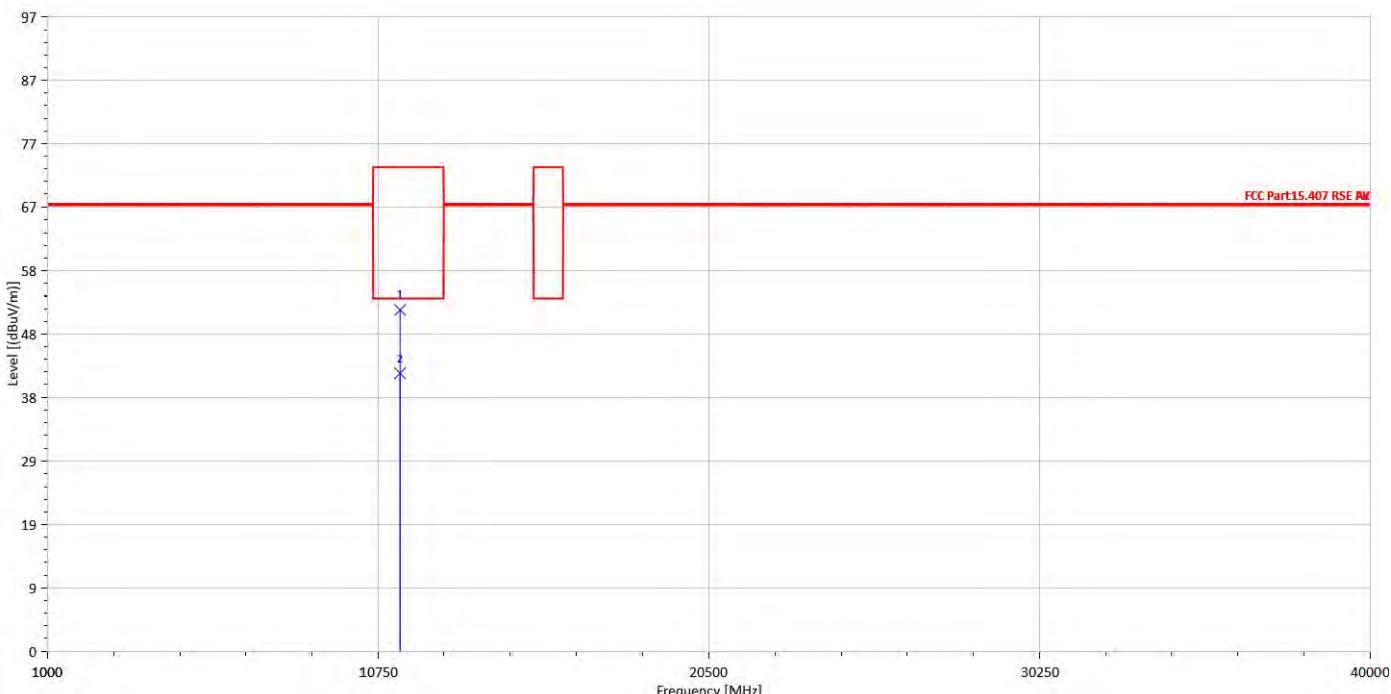
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Operation Mode : 802.11n20 Test Date : 2016/8/25
Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @ 3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|-------------------------------|--------------|
| 11400.00 | H | Peak | 31.03 | 21.22 | 52.24 | 74 | -21.76 |
| 11400.00 | H | Average | 21.26 | 21.22 | 42.48 | 54 | -11.52 |

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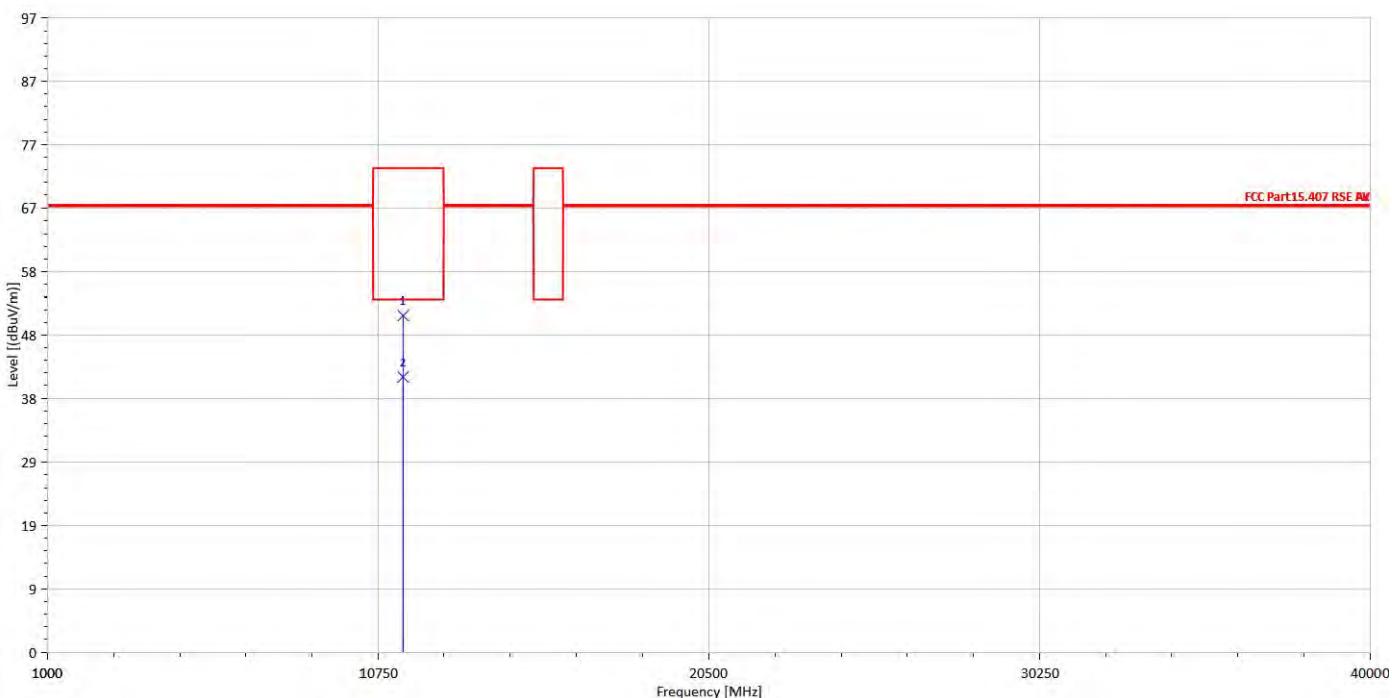
f (886-2) 2298-0488

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

Operation Mode : 802.11n20 Test Date : 2016/8/25
Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



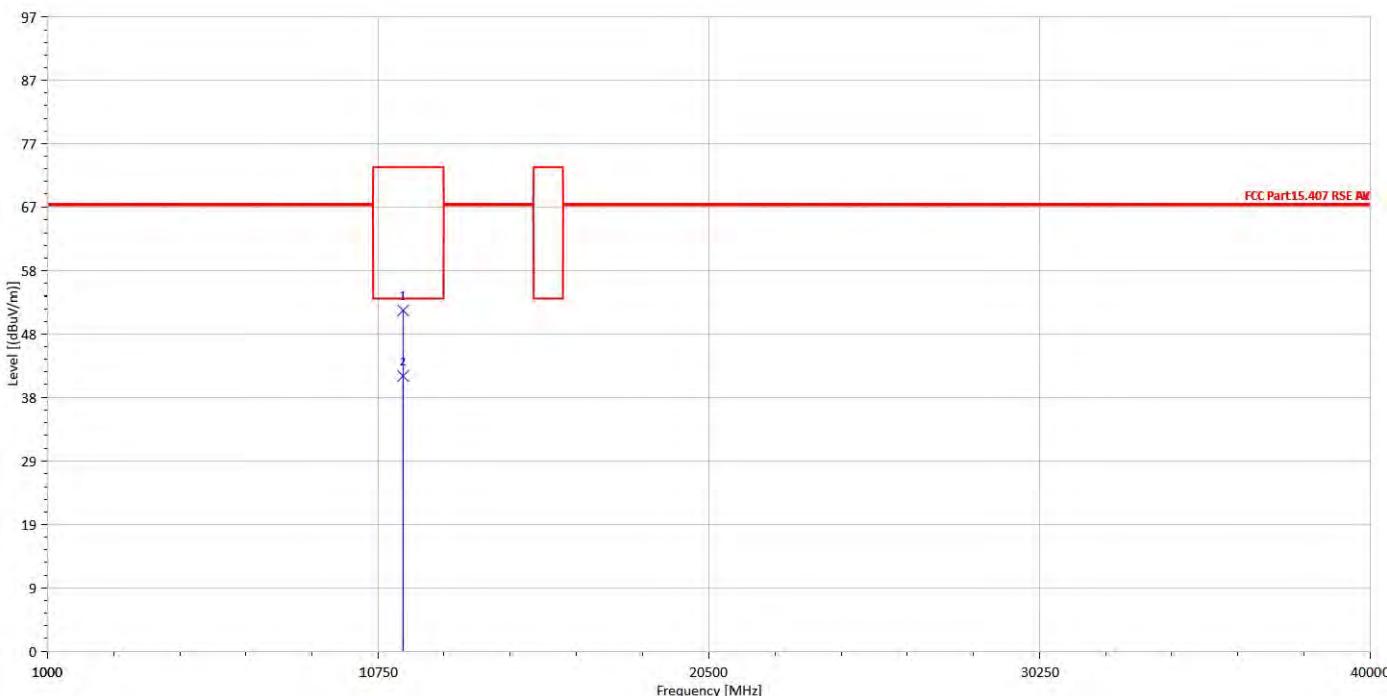
| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|--|--------------|------------------------------|------------------------------|--------------|
| 11490.00 | H | Peak | 30.82 | 20.70 | 51.52 | 74 | -22.48 |
| 11490.00 | H | Average | 21.32 | 20.70 | 42.02 | 54 | -11.98 |

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Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @ 3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|-------------------------------|--------------|
| 11490.00 | H | Peak | 31.46 | 20.70 | 52.16 | 74 | -21.84 |
| 11490.00 | H | Average | 21.33 | 20.70 | 42.03 | 54 | -11.97 |

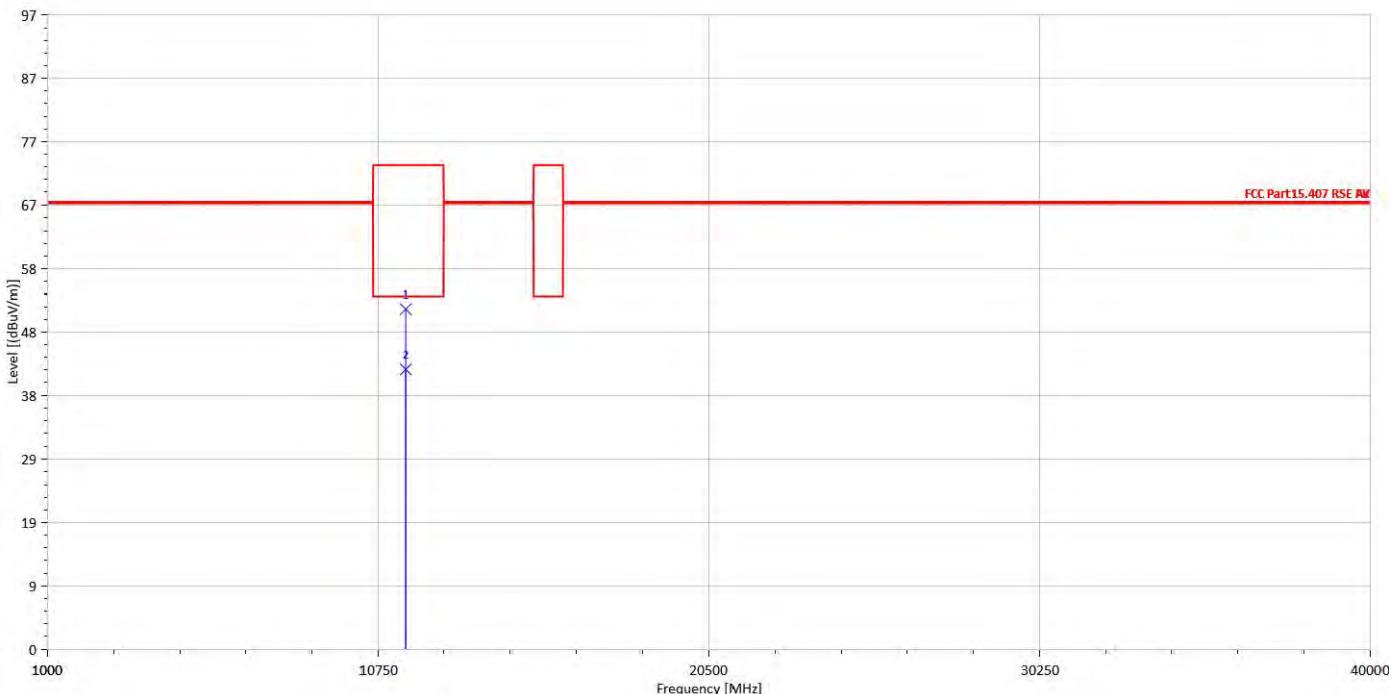
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Operation Mode : 802.11n20 Test Date : 2016/8/25
Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @ 3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|-------------------------------|--------------|
| 11570.00 | H | Peak | 30.60 | 21.44 | 52.05 | 74 | -21.95 |
| 11570.00 | H | Average | 21.31 | 21.44 | 42.75 | 54 | -11.25 |

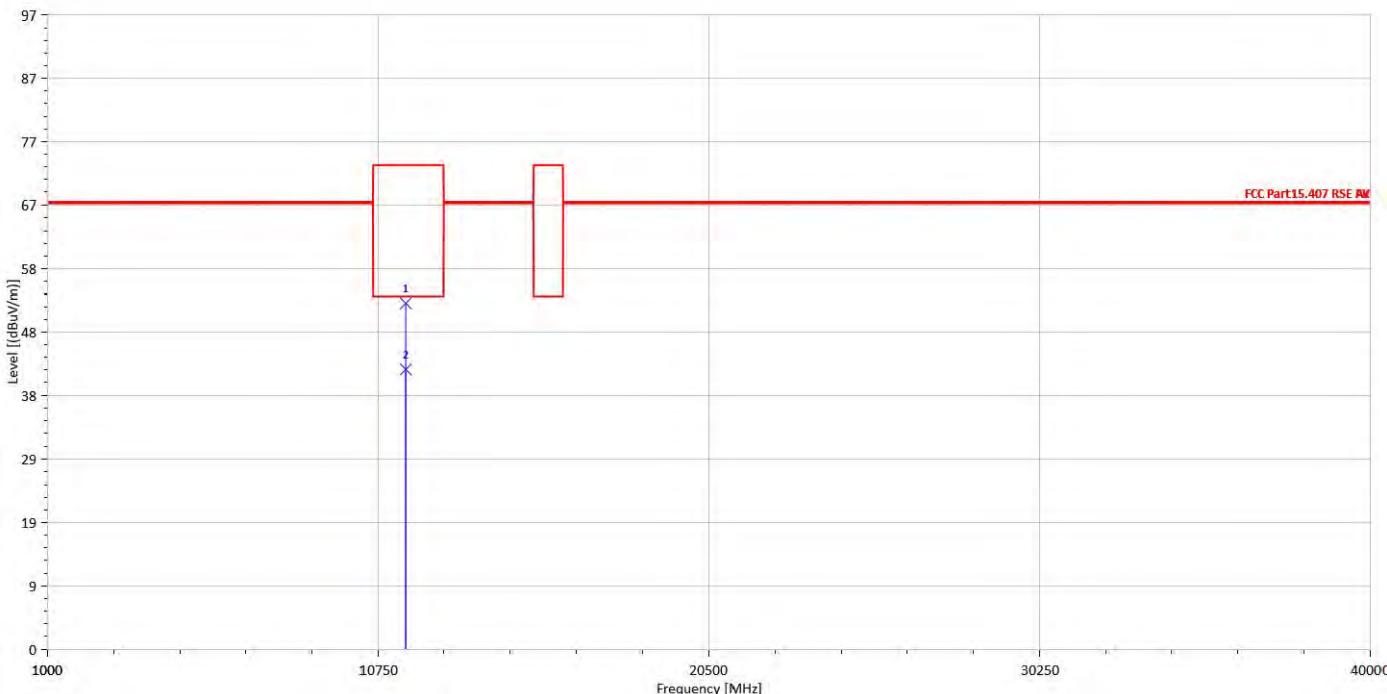
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Operation Mode : 802.11n20 Test Date : 2016/8/25
Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @ 3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|-------------------------------|--------------|
| 11570.00 | H | Peak | 31.51 | 21.44 | 52.95 | 74 | -21.05 |
| 11570.00 | H | Average | 21.30 | 21.44 | 42.74 | 54 | -11.26 |

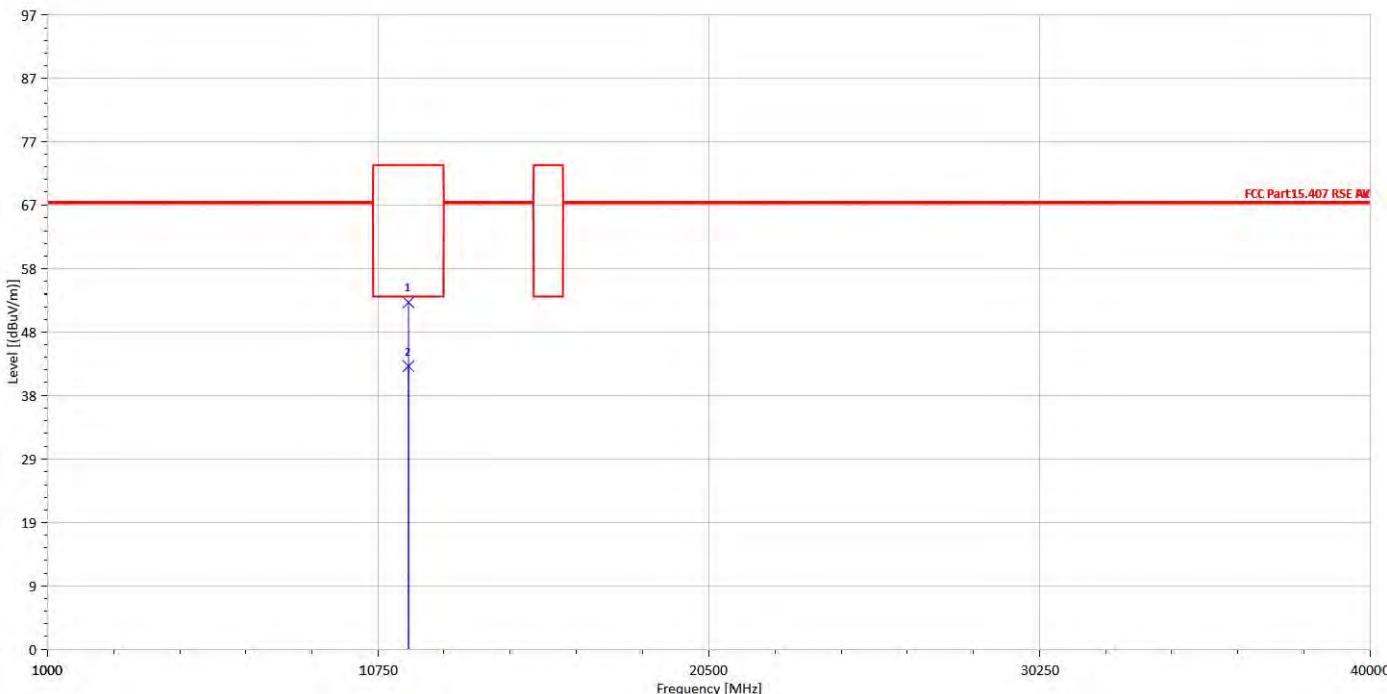
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Operation Mode : 802.11n20 Test Date : 2016/8/25
Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @ 3m dBµV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|-------------------------|--------------|
| 11650.00 | H | Peak | 31.08 | 22.02 | 53.10 | 74 | -20.90 |
| 11650.00 | H | Average | 21.22 | 22.02 | 43.24 | 54 | -10.76 |

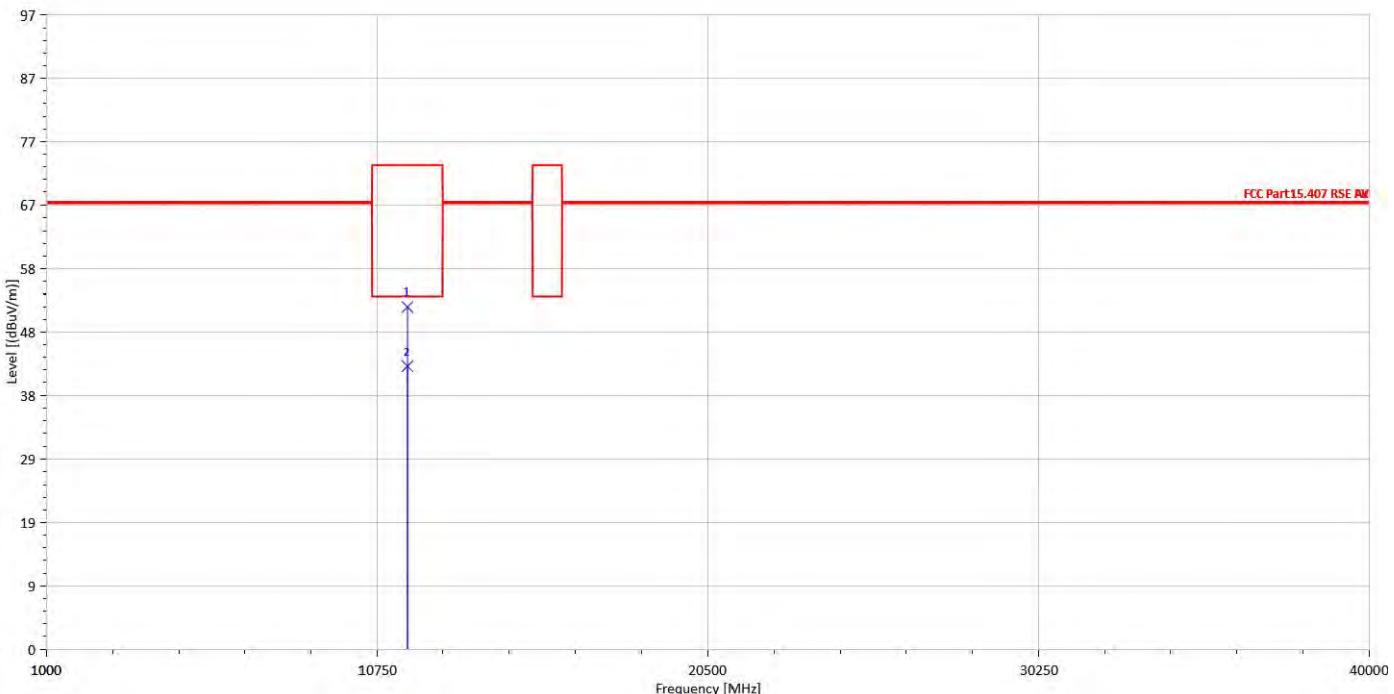
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Operation Mode : 802.11n20 Test Date : 2016/8/25
Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @ 3m dBµV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|-------------------------|--------------|
| 11650.00 | H | Peak | 30.37 | 22.02 | 52.39 | 74 | -21.61 |
| 11650.00 | H | Average | 21.22 | 22.02 | 43.24 | 54 | -10.76 |

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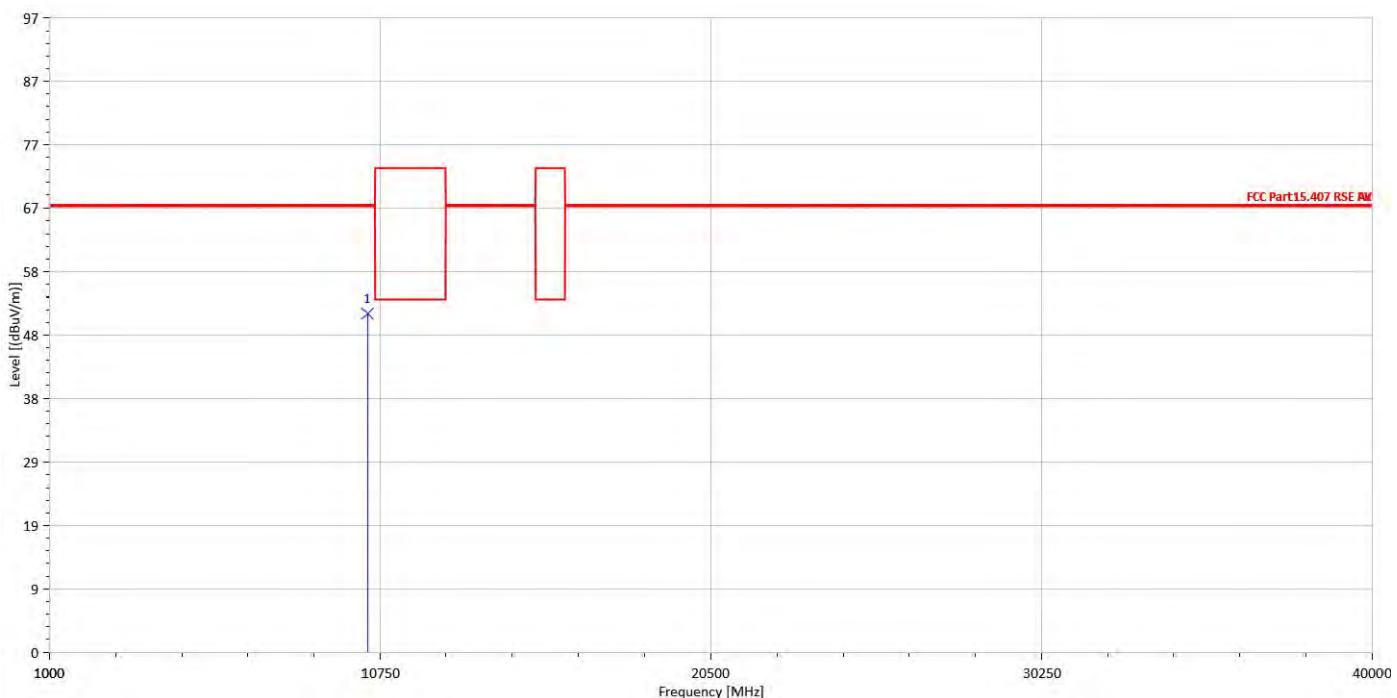
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode : 802.11n40 Test Date : 2016/8/25
Fundamental Frequency : 5190 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10380.00 | H | Peak | 30.88 | 20.95 | 51.83 | 68.3 | -16.47 |

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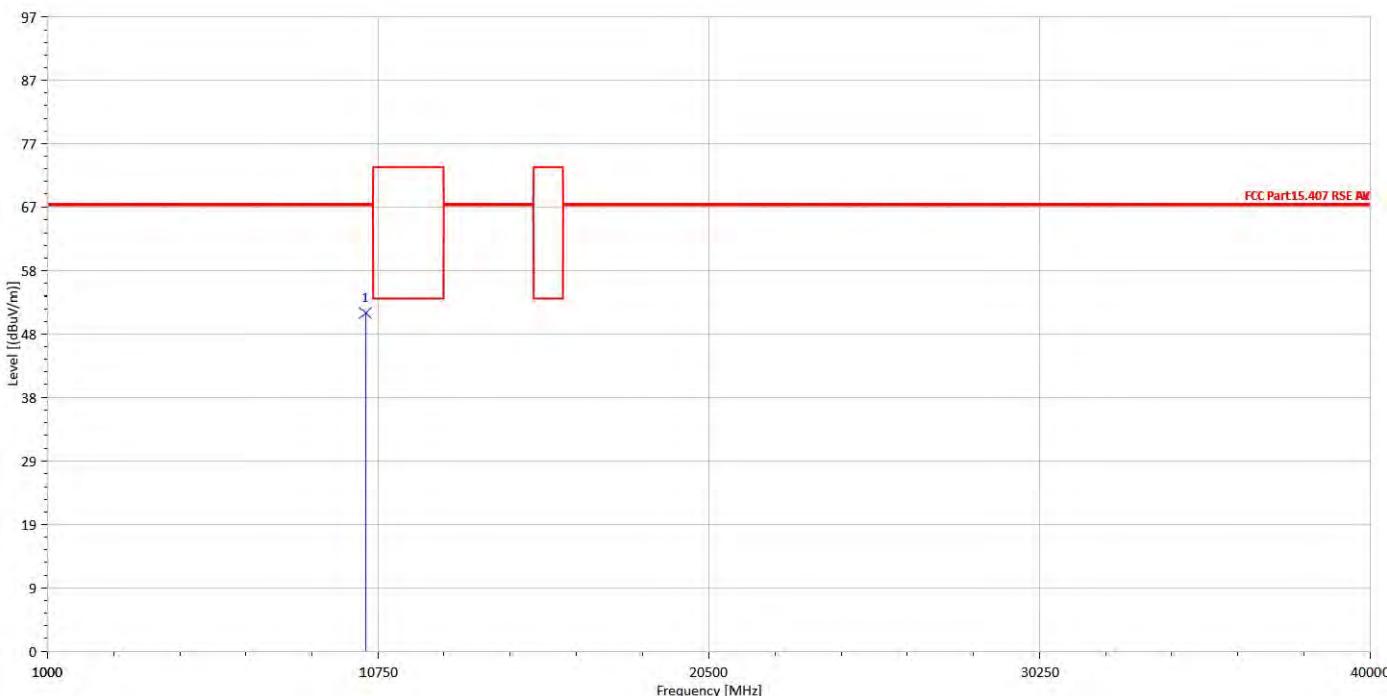
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Operation Mode : 802.11n40 Test Date : 2016/8/25
Fundamental Frequency : 5190 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10380.00 | H | Peak | 30.83 | 20.95 | 51.78 | 68.3 | -16.52 |

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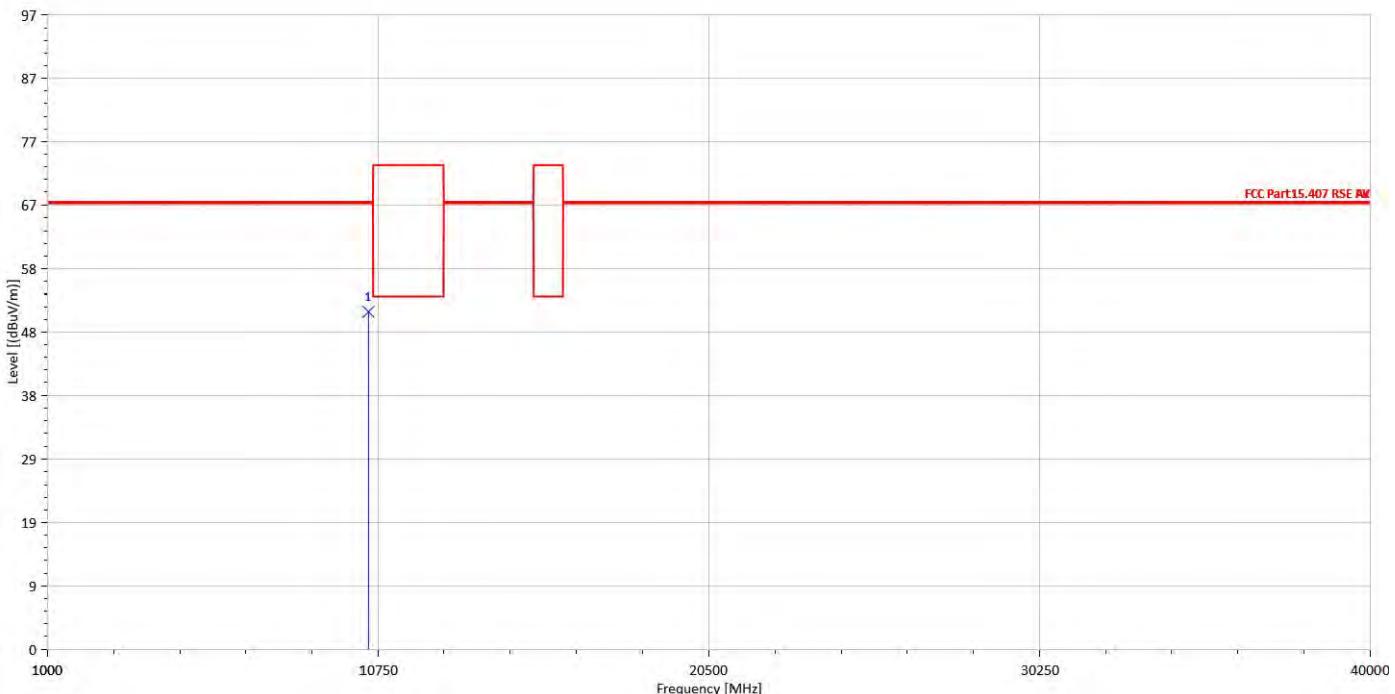
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Operation Mode : 802.11n40 Test Date : 2016/8/25
Fundamental Frequency : 5230 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10460.00 | H | Peak | 30.70 | 20.95 | 51.65 | 68.3 | -16.65 |

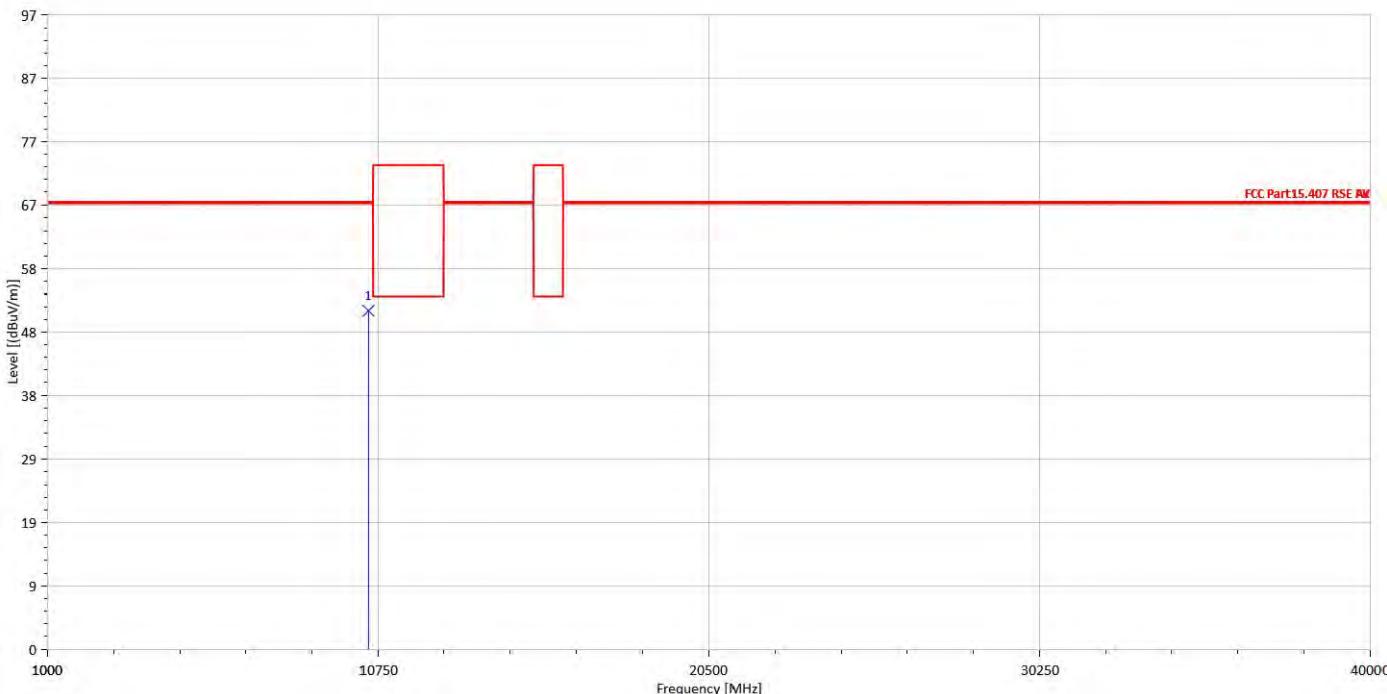
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Operation Mode : 802.11n40 Test Date : 2016/8/25
Fundamental Frequency : 5230 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10460.00 | H | Peak | 30.86 | 20.95 | 51.81 | 68.3 | -16.49 |

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

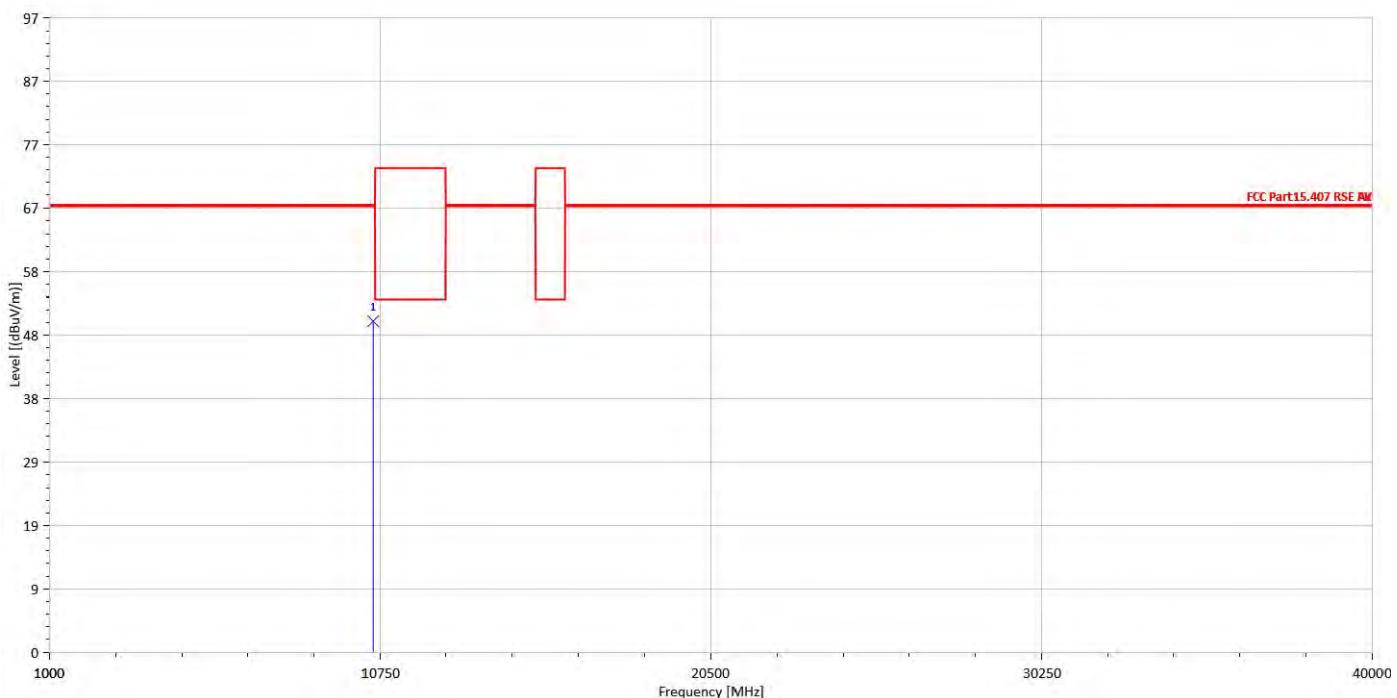
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Mode : 802.11n40 Test Date : 2016/8/25
Fundamental Frequency : 5270 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



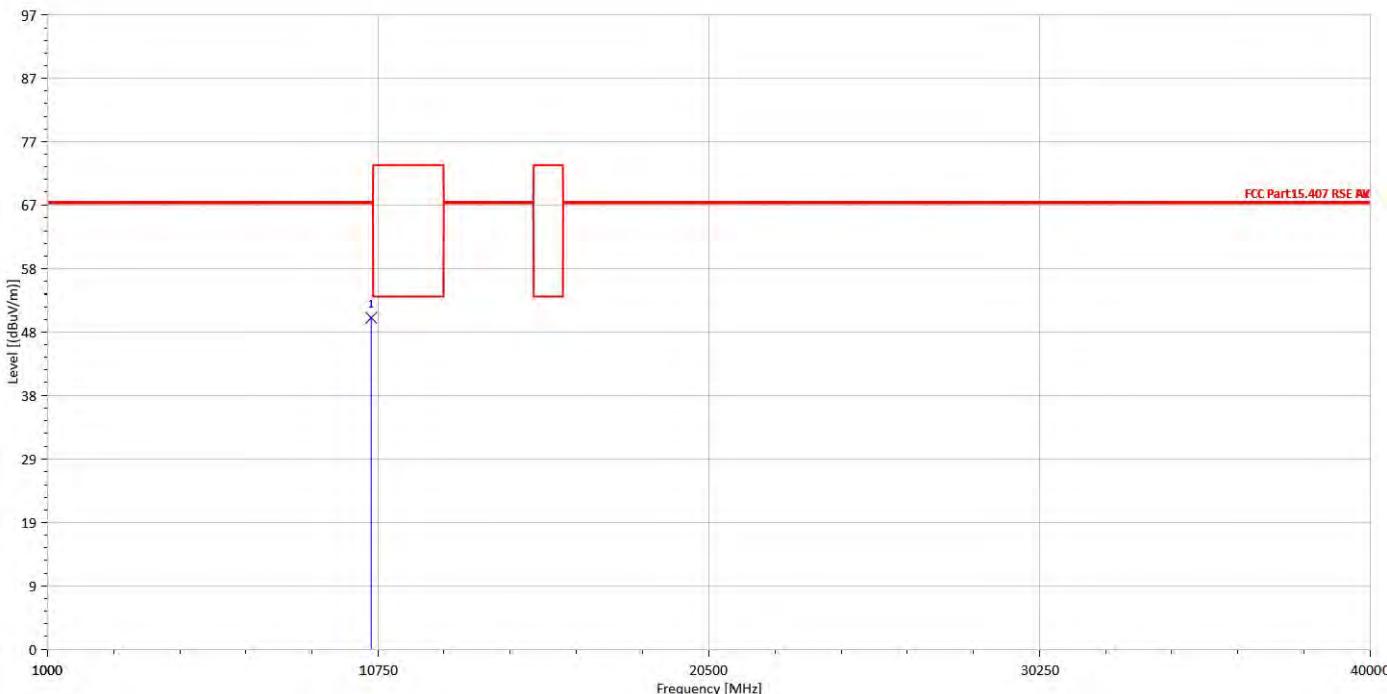
| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10540.00 | H | Peak | 30.59 | 20.06 | 50.65 | 68.3 | -17.65 |

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Operation Mode : 802.11n40 Test Date : 2016/8/25
Fundamental Frequency : 5270 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10540.00 | H | Peak | 30.66 | 20.06 | 50.72 | 68.3 | -17.58 |

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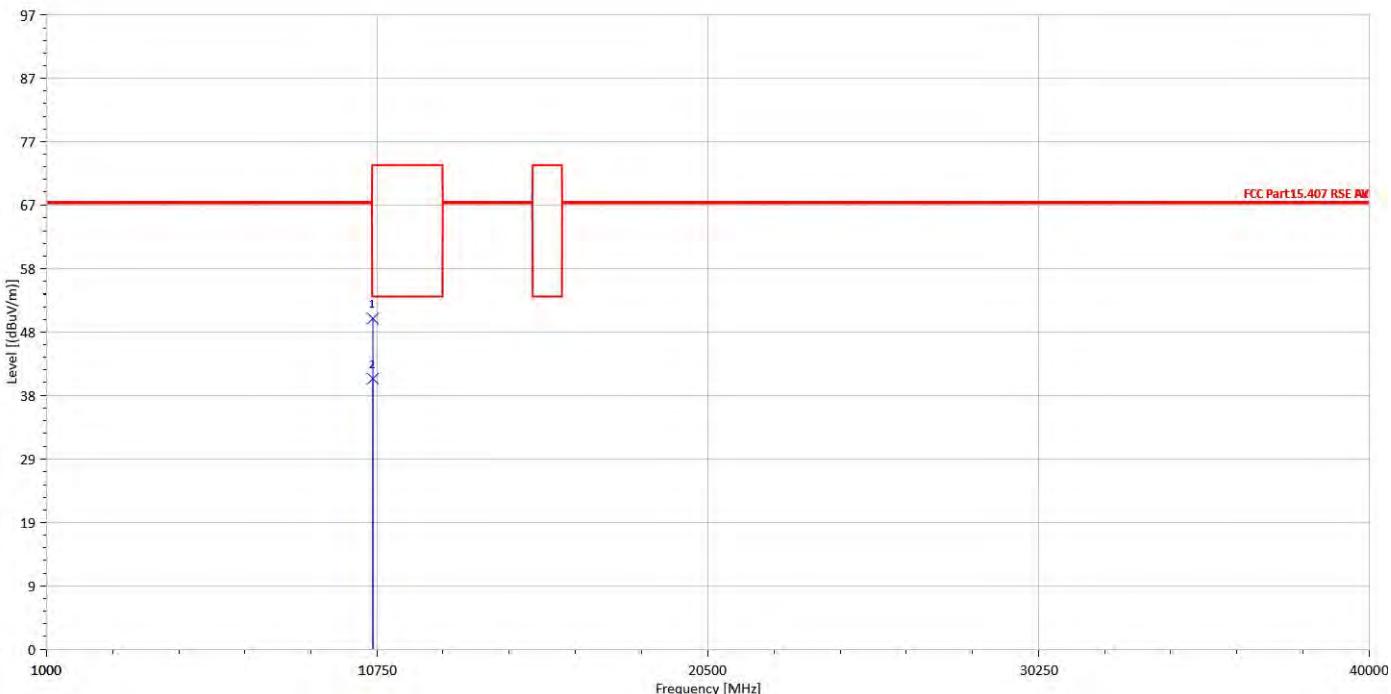
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f (886-2) 2298-0488

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Operation Mode : 802.11n40 Test Date : 2016/8/25
Fundamental Frequency : 5310 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10620.00 | H | Peak | 30.32 | 20.29 | 50.61 | 74 | -23.39 |
| 10620.00 | H | Average | 21.04 | 20.29 | 41.33 | 54 | -12.67 |

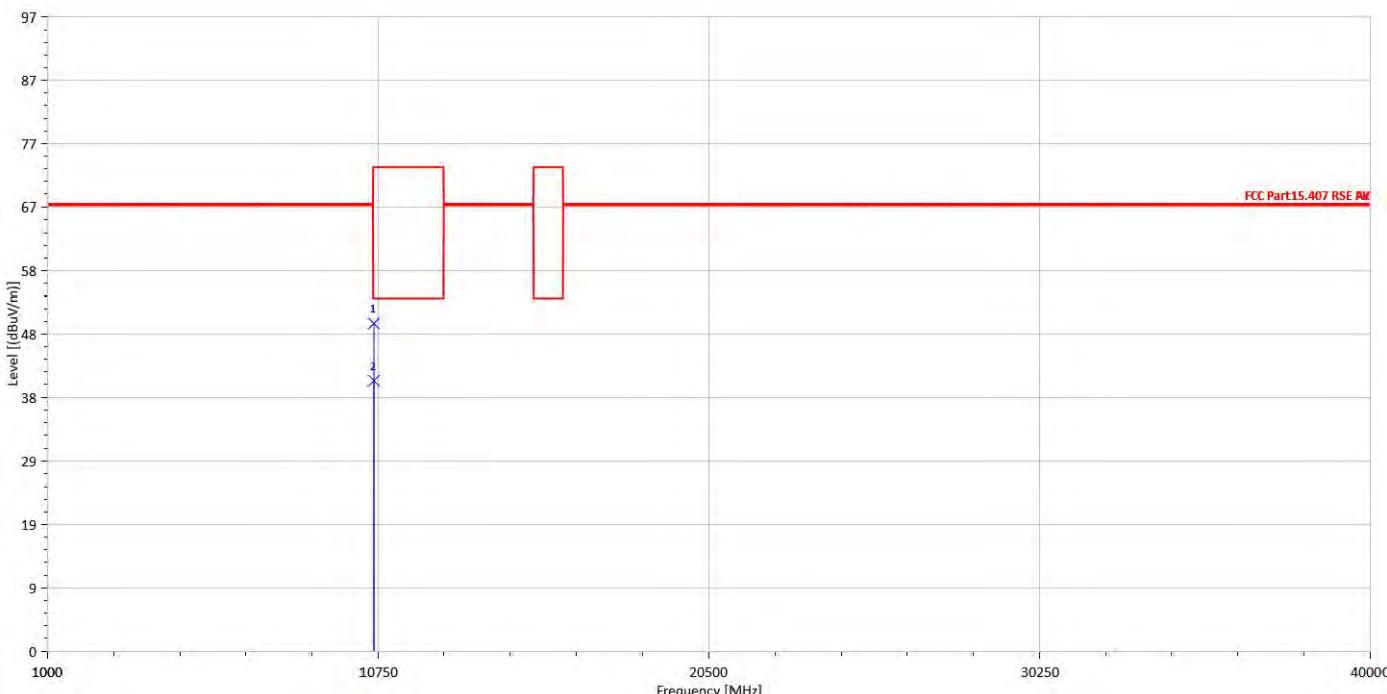
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Operation Mode : 802.11n40 Test Date : 2016/8/25
Fundamental Frequency : 5310 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10620.00 | H | Peak | 29.86 | 20.29 | 50.15 | 74 | -23.85 |
| 10620.00 | H | Average | 21.03 | 20.29 | 41.32 | 54 | -12.68 |

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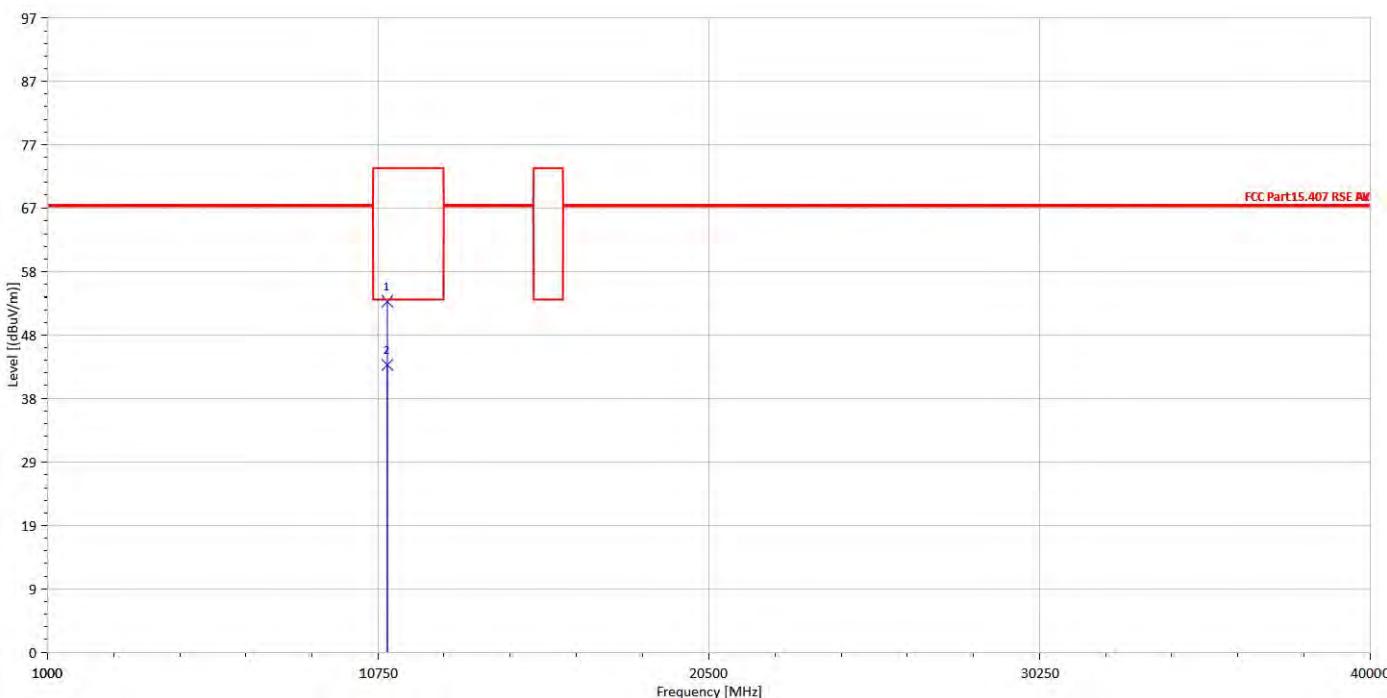
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Mode : 802.11n40 Test Date : 2016/8/25
Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. | Note | Detector Mode | Spectrum Reading | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | Level dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 11020.00 | H | Peak | 30.79 | 22.90 | 53.69 | 74 | -20.31 |
| 11020.00 | H | Average | 21.00 | 22.90 | 43.90 | 54 | -10.10 |

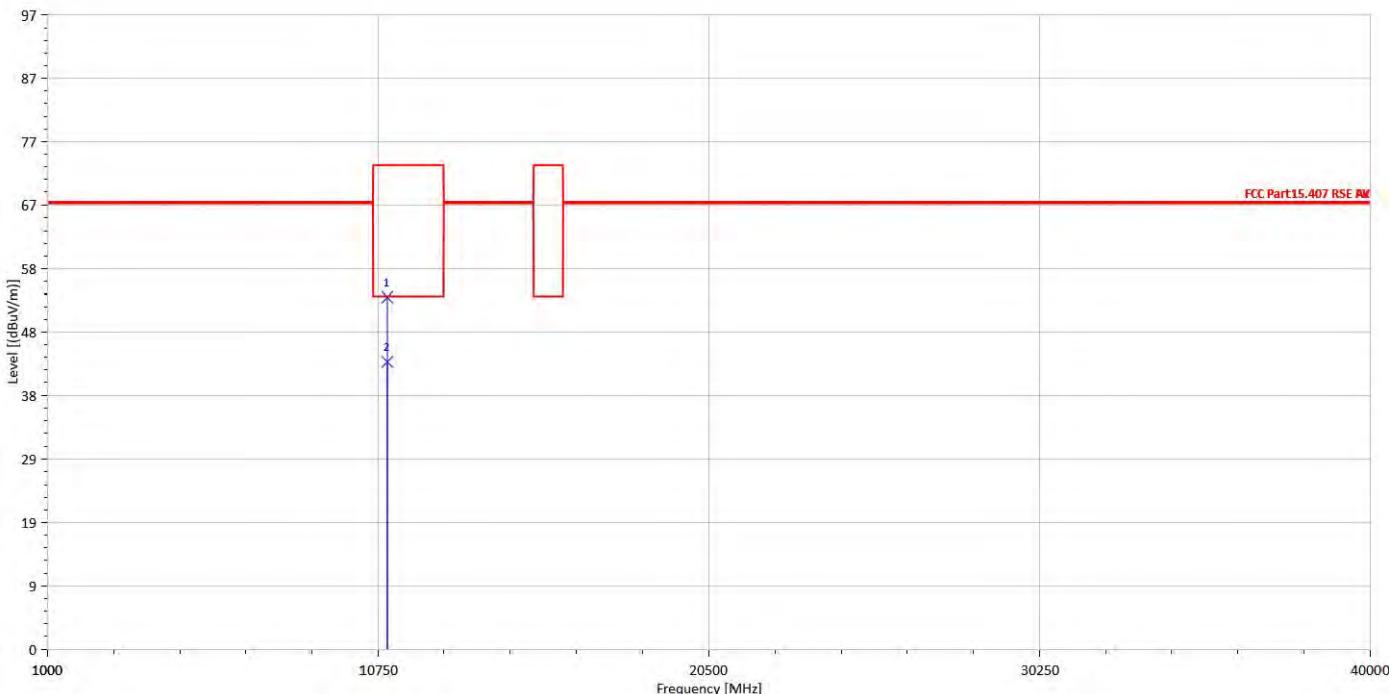
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Operation Mode : 802.11n40 Test Date : 2016/8/25
Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @ 3m dBµV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|-------------------------|--------------|
| 11020.00 | H | Peak | 30.94 | 22.90 | 53.84 | 74 | -20.16 |
| 11020.00 | H | Average | 21.01 | 22.90 | 43.91 | 54 | -10.09 |

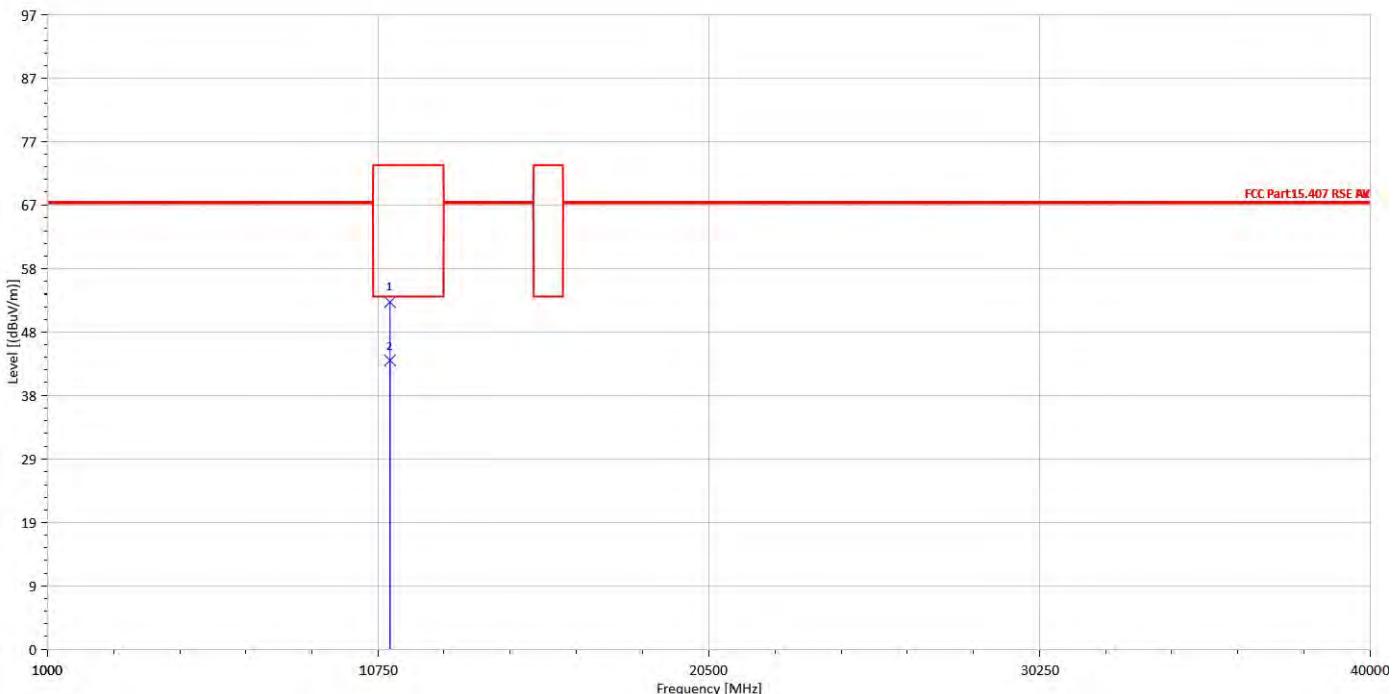
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Operation Mode : 802.11n40 Test Date : 2016/8/25
Fundamental Frequency : 5550 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11100.00 | H | Peak | 29.99 | 23.16 | 53.15 | 74 | -20.85 |
| 11100.00 | H | Average | 20.99 | 23.16 | 44.15 | 54 | -9.85 |

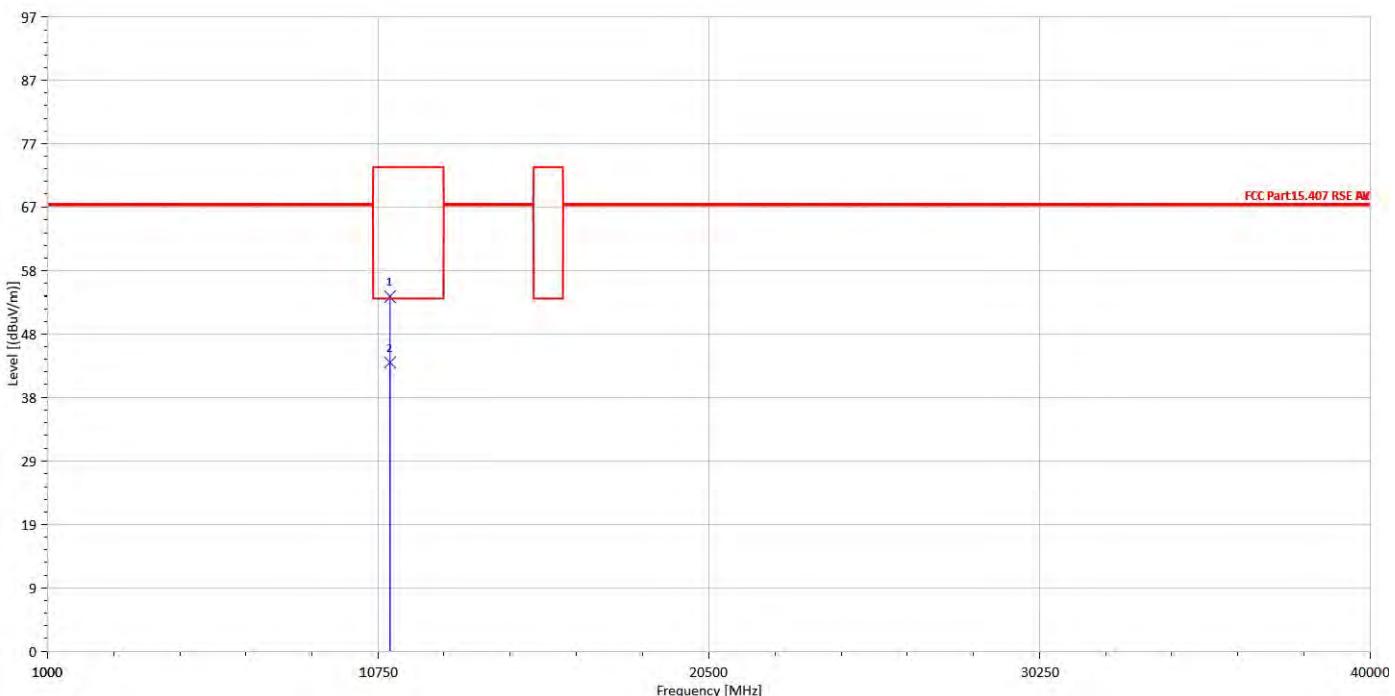
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Operation Mode : 802.11n40 Test Date : 2016/8/25
Fundamental Frequency : 5550 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11100.00 | H | Peak | 31.05 | 23.16 | 54.21 | 74 | -19.79 |
| 11100.00 | H | Average | 20.98 | 23.16 | 44.14 | 54 | -9.86 |

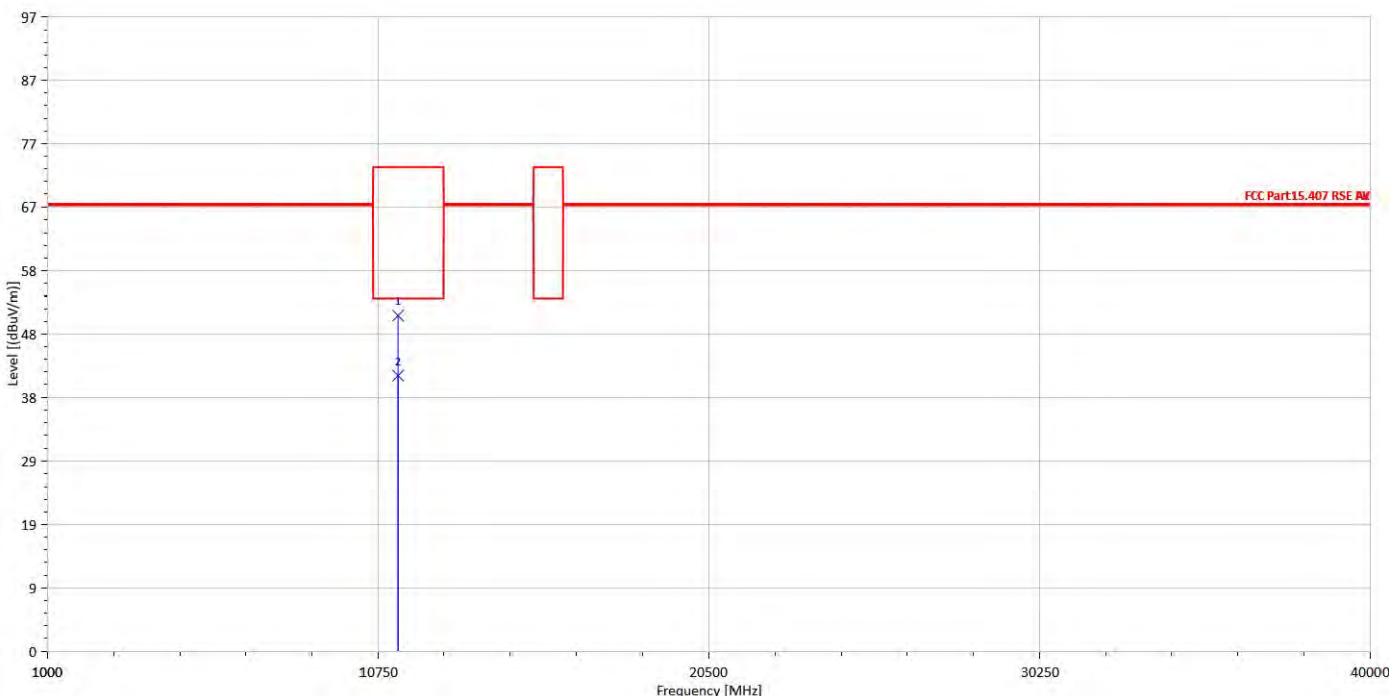
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Operation Mode : 802.11n40 Test Date : 2016/8/25
Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @ 3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|-------------------------------|--------------|
| 11340.00 | H | Peak | 30.40 | 20.97 | 51.37 | 74 | -22.63 |
| 11340.00 | H | Average | 21.14 | 20.97 | 42.11 | 54 | -11.89 |

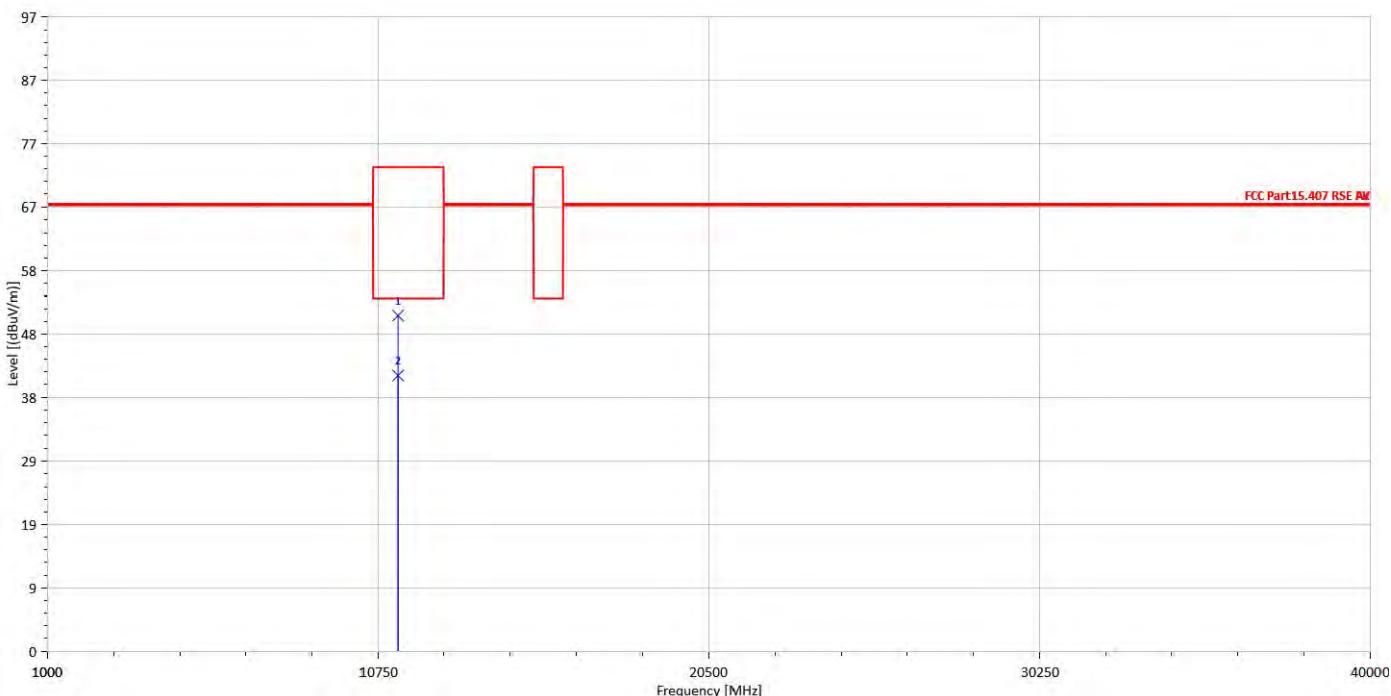
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Operation Mode : 802.11n40 Test Date : 2016/8/25
Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @ 3m | Margin |
|----------|---------|---------------|------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 11340.00 | H | Peak | 30.40 | 20.97 | 51.37 | 74 | -22.63 |
| 11340.00 | H | Average | 21.15 | 20.97 | 42.12 | 54 | -11.88 |

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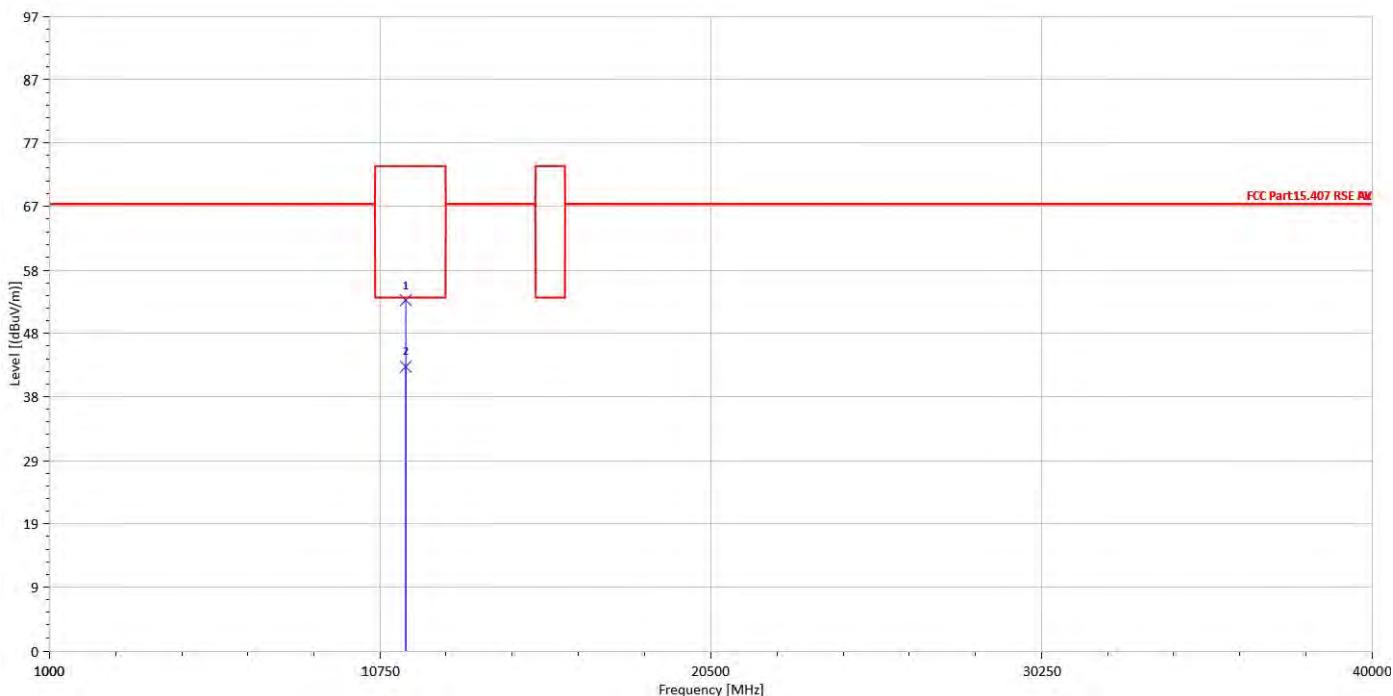
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode : 802.11n40 Test Date : 2016/8/25
Fundamental Frequency : 5755 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



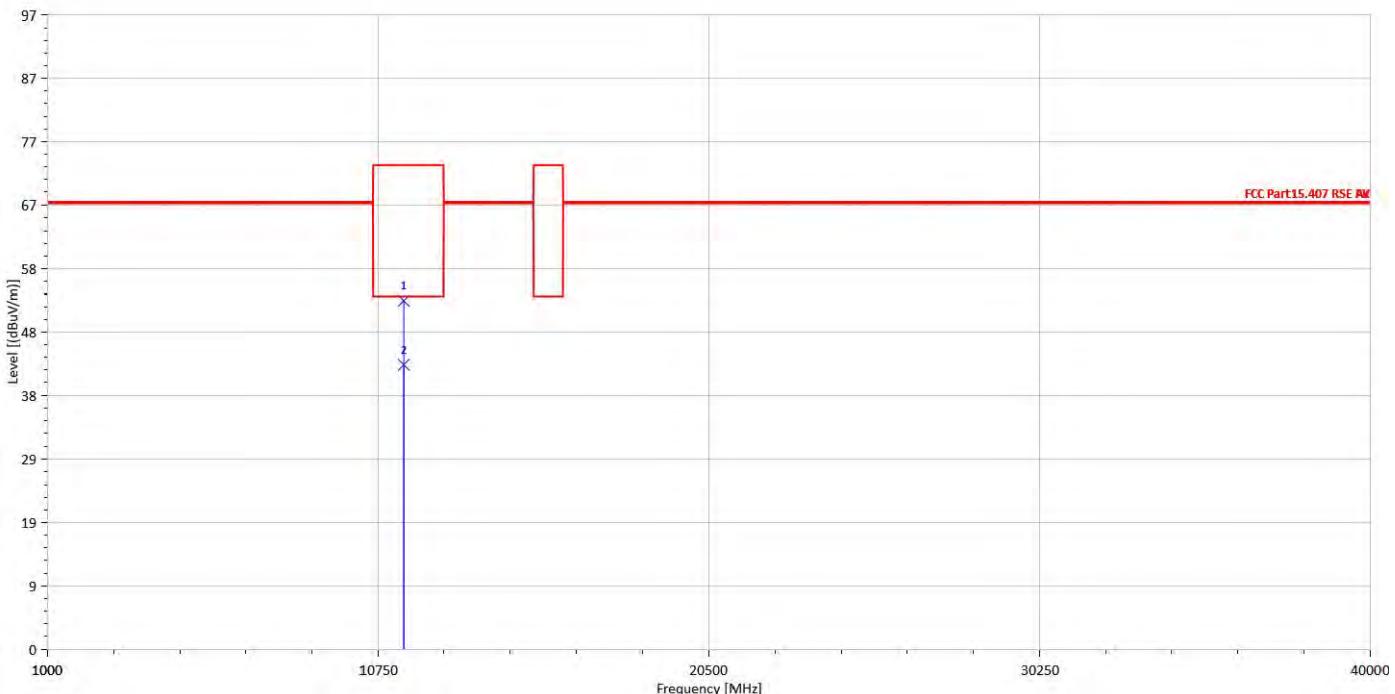
| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11510.00 | H | Peak | 31.44 | 22.17 | 53.60 | 74 | -20.40 |
| 11510.00 | H | Average | 21.30 | 22.17 | 43.47 | 54 | -10.53 |

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Operation Mode : 802.11n40 Test Date : 2016/8/25
Fundamental Frequency : 5755 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @ 3m dBµV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|-------------------------|--------------|
| 11510.00 | H | Peak | 31.17 | 22.17 | 53.34 | 74 | -20.66 |
| 11510.00 | H | Average | 21.31 | 22.17 | 43.48 | 54 | -10.52 |

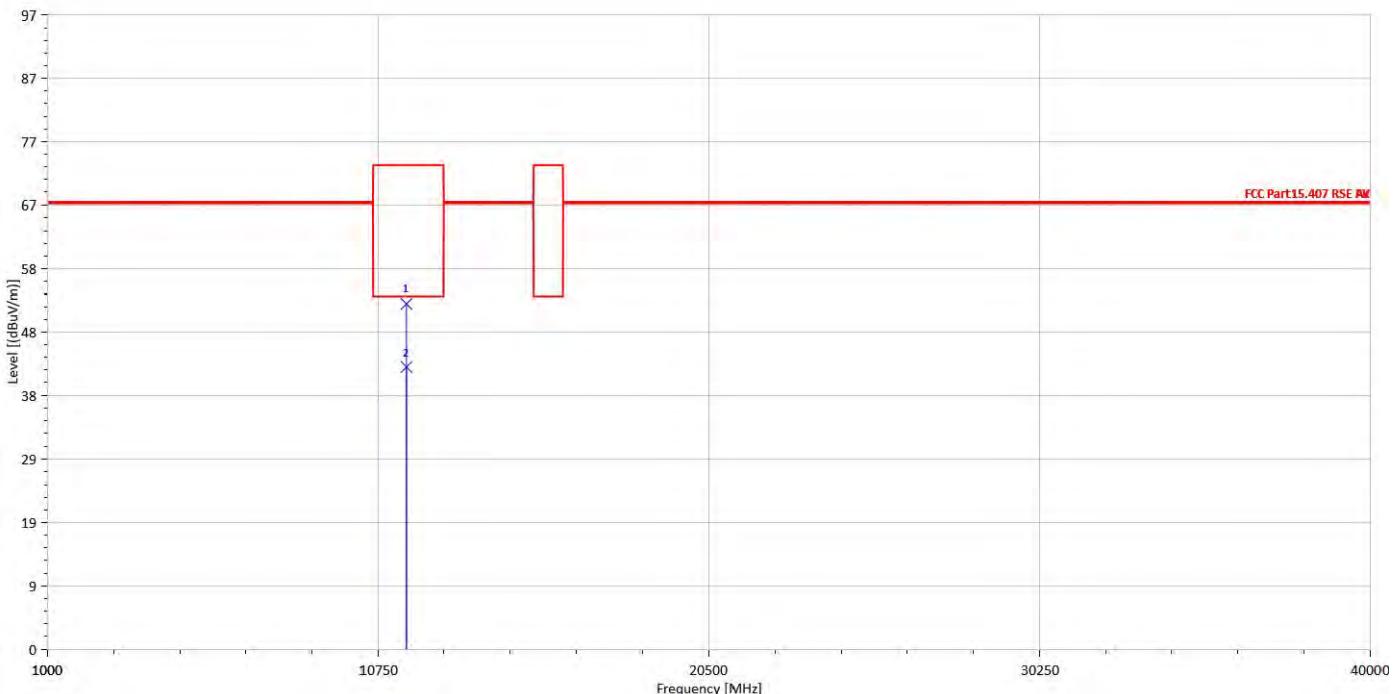
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Operation Mode : 802.11n40 Test Date : 2016/8/25
Fundamental Frequency : 5795 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @ 3m dBµV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|-------------------------|--------------|
| 11590.00 | H | Peak | 31.02 | 21.84 | 52.86 | 74 | -21.14 |
| 11590.00 | H | Average | 21.28 | 21.84 | 43.12 | 54 | -10.88 |

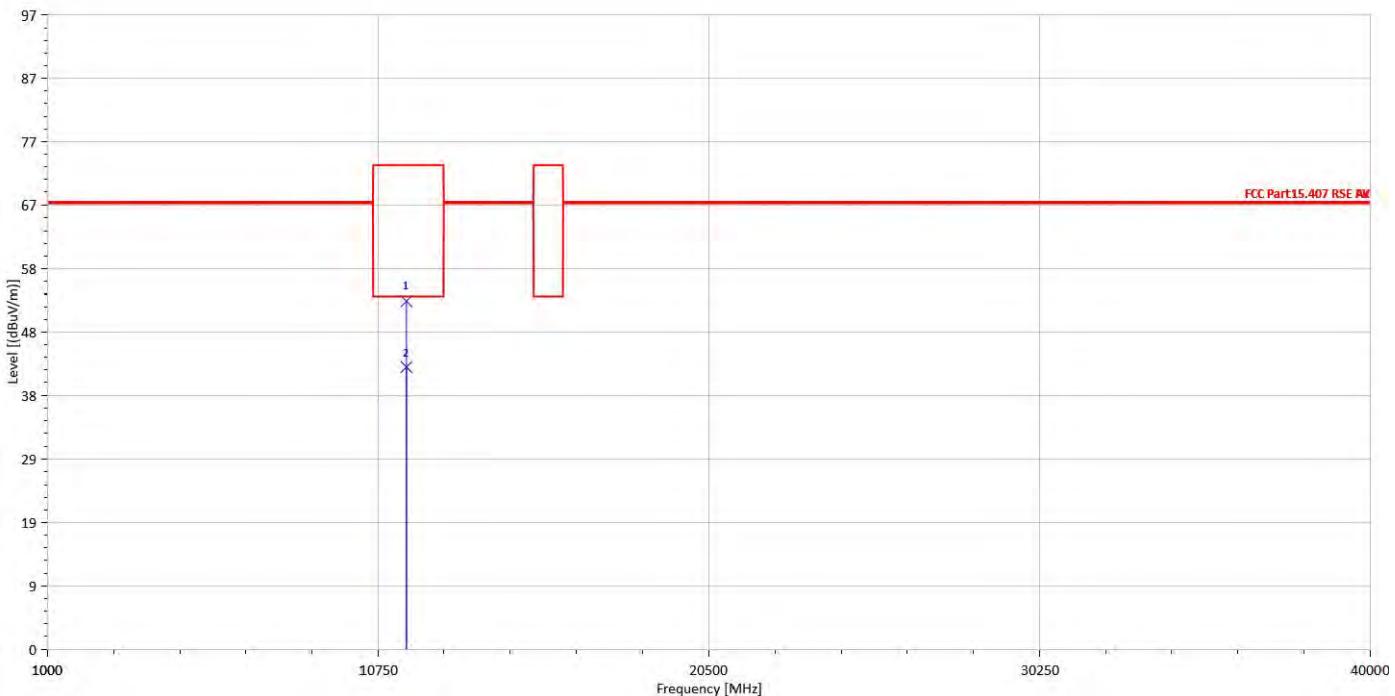
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Operation Mode : 802.11n40 Test Date : 2016/8/25
Fundamental Frequency : 5795 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @ 3m dBµV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|-------------------------|--------------|
| 11590.00 | H | Peak | 31.44 | 21.84 | 53.28 | 74 | -20.72 |
| 11590.00 | H | Average | 21.27 | 21.84 | 43.11 | 54 | -10.89 |

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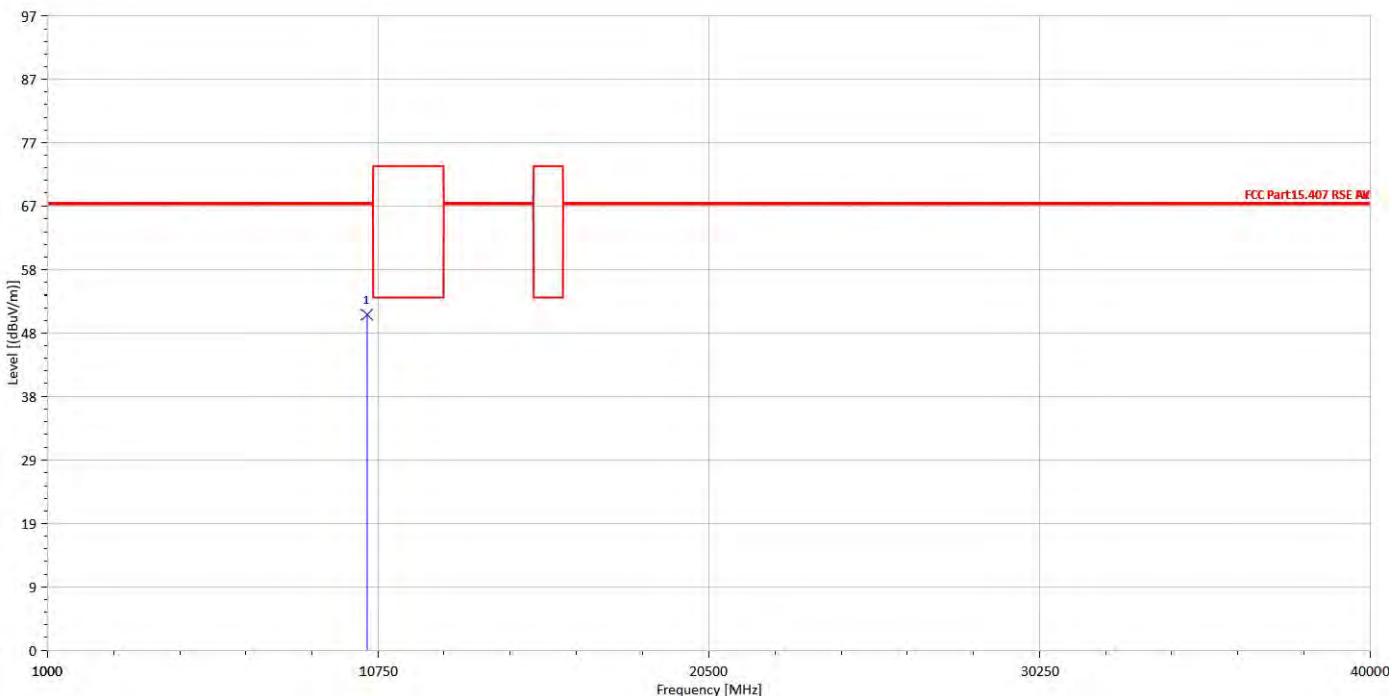
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode : 802.11ac80 Test Date : 2016/8/25
Fundamental Frequency : 5210 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10420.00 | H | Peak | 30.69 | 20.67 | 51.36 | 68.3 | -16.94 |

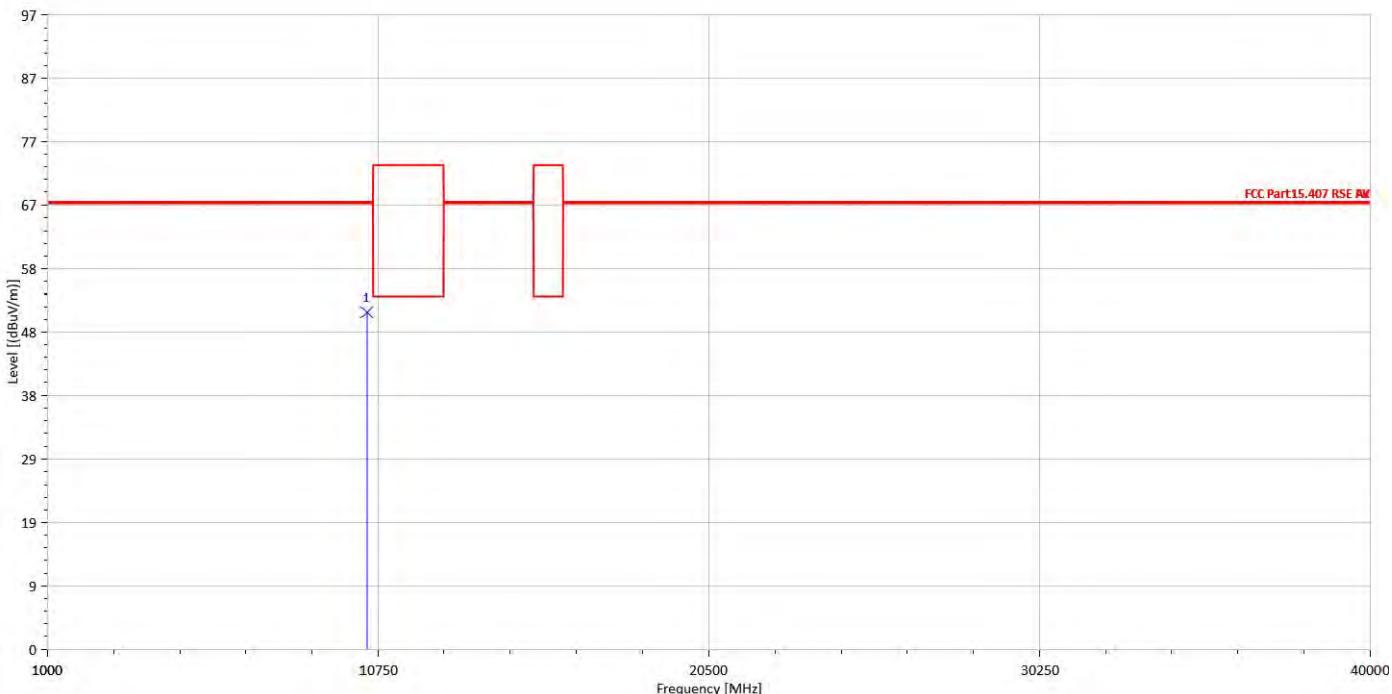
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Operation Mode : 802.11ac80 Test Date : 2016/8/25
Fundamental Frequency : 5210 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10420.00 | H | Peak | 30.90 | 20.67 | 51.57 | 68.3 | -16.73 |

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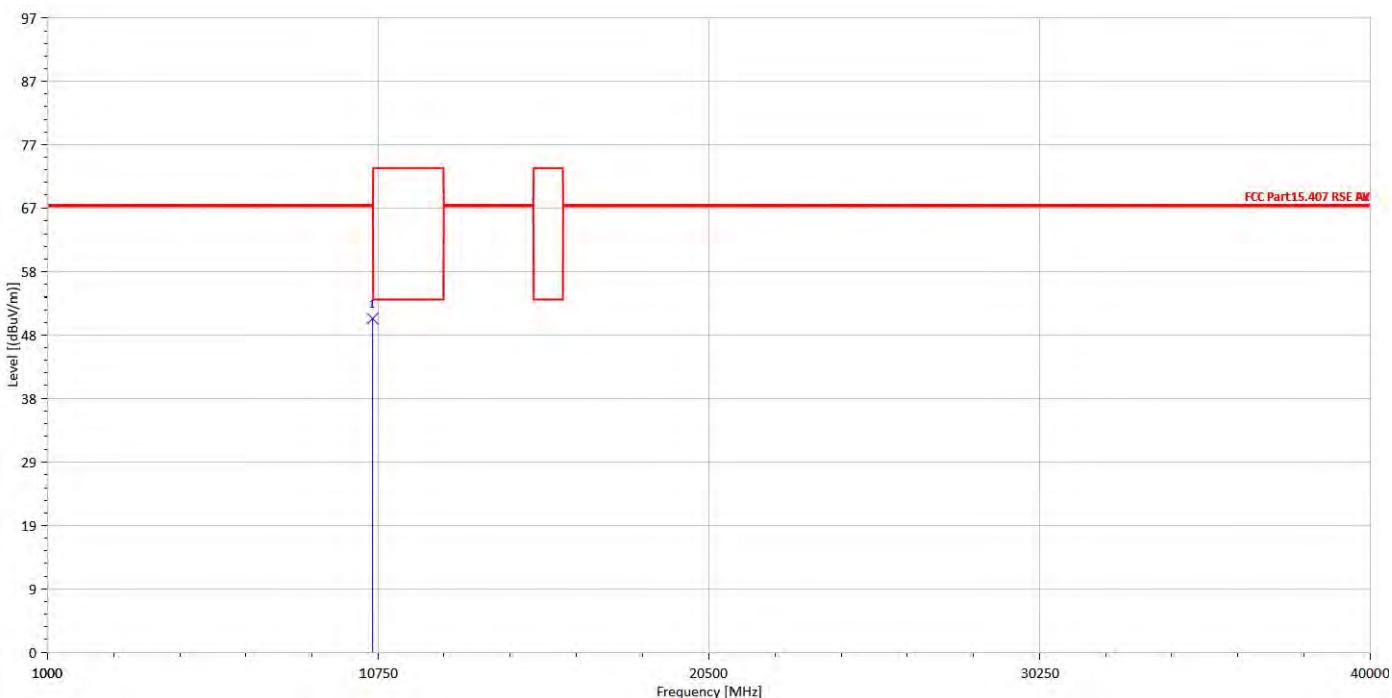
f (886-2) 2298-0488

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

Operation Mode : 802.11ac80 Test Date : 2016/8/25
Fundamental Frequency : 5290 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10580.00 | H | Peak | 30.94 | 20.12 | 51.06 | 68.3 | -17.24 |

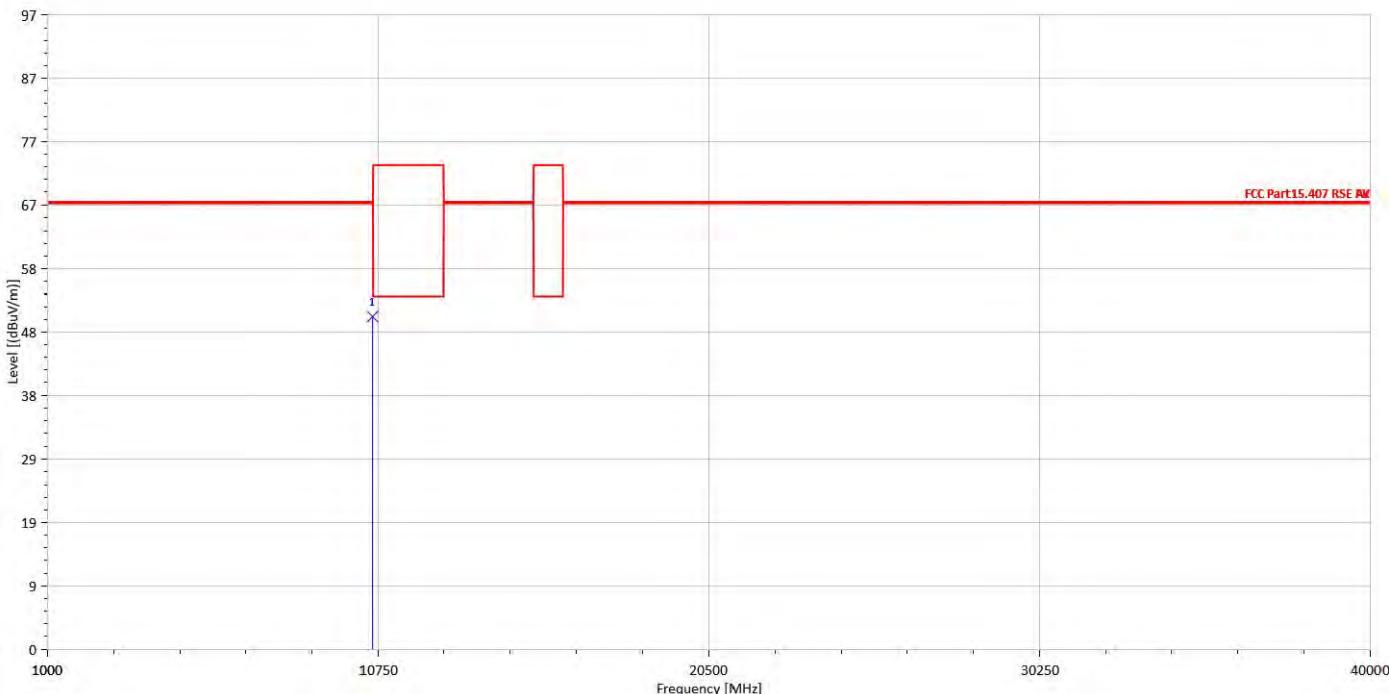
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Operation Mode : 802.11ac80 Test Date : 2016/8/25
Fundamental Frequency : 5290 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10580.00 | H | Peak | 30.79 | 20.12 | 50.91 | 68.3 | -17.39 |

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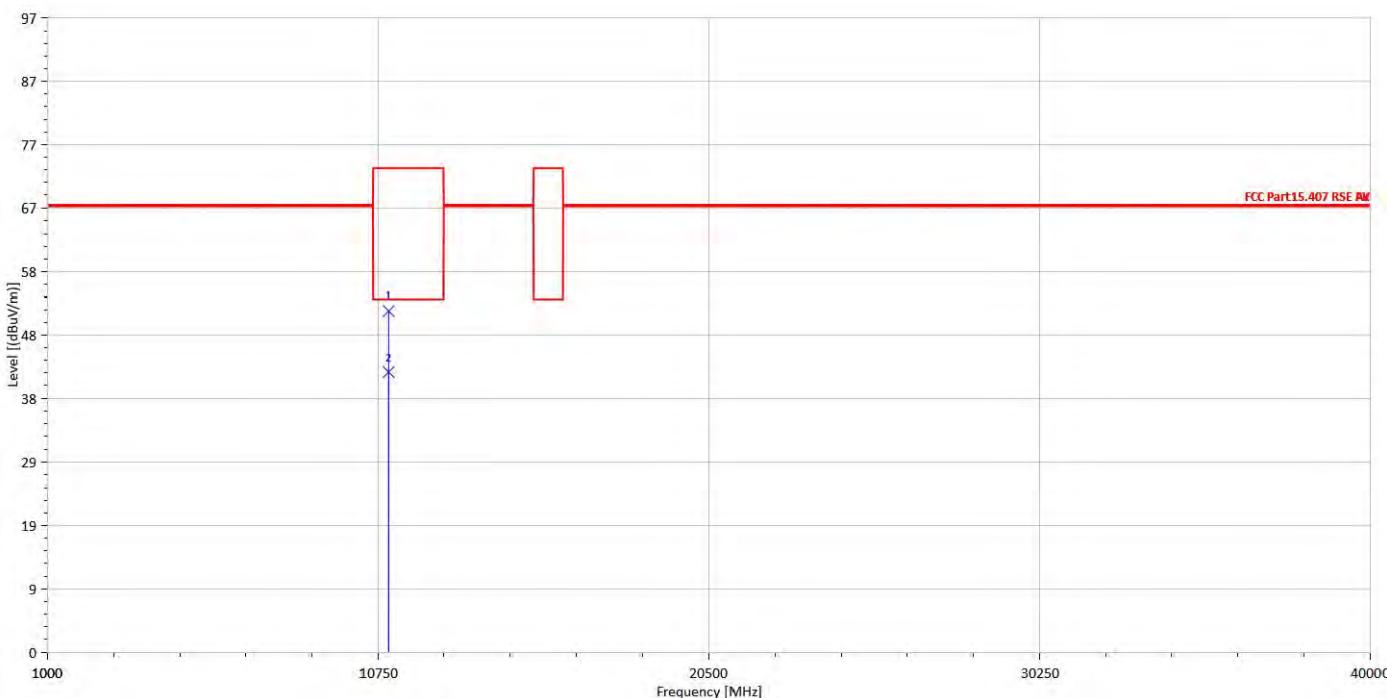
f (886-2) 2298-0488

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

Operation Mode : 802.11ac80 Test Date : 2016/8/25
 Fundamental Frequency : 5530 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. | Note | Detector Mode | Spectrum Reading | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | Level dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 11060.00 | H | Peak | 30.39 | 21.83 | 52.22 | 74 | -21.78 |
| 11060.00 | H | Average | 20.98 | 21.83 | 42.81 | 54 | -11.19 |

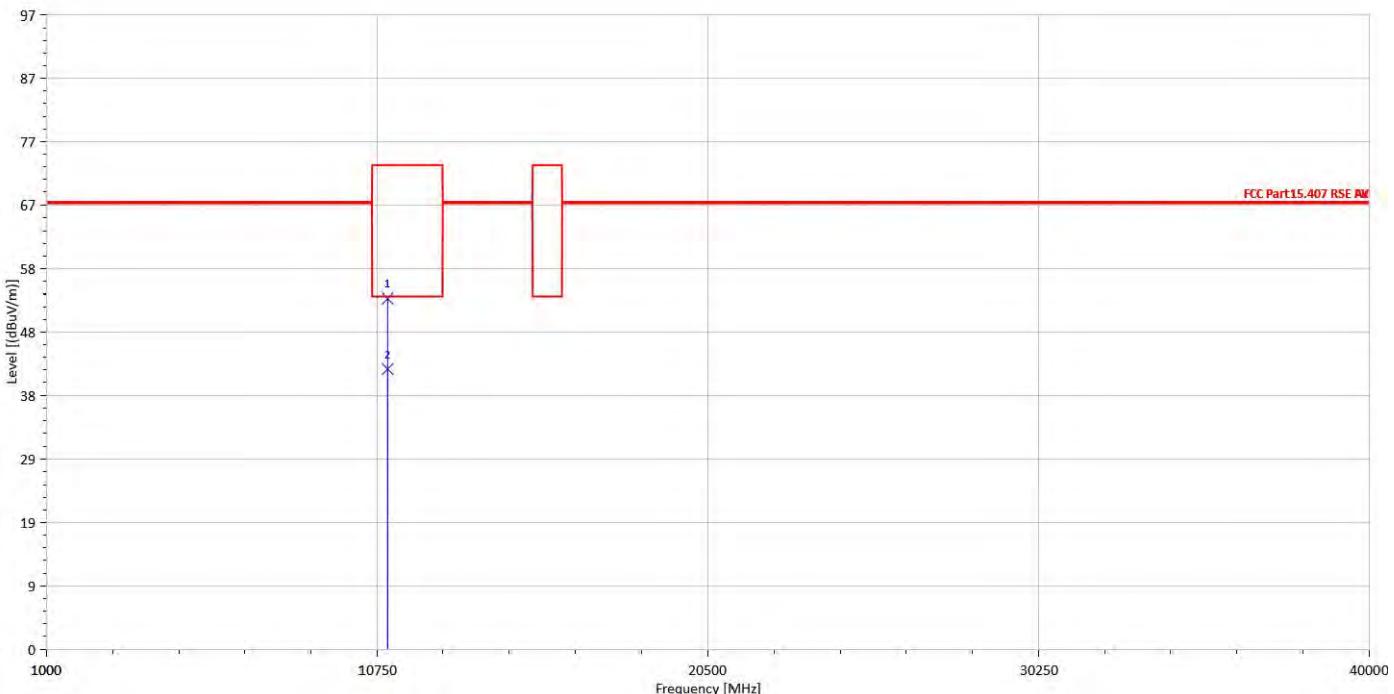
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Operation Mode : 802.11ac80 Test Date : 2016/8/25
Fundamental Frequency : 5530 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @ 3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|-------------------------------|--------------|
| 11060.00 | H | Peak | 31.83 | 21.83 | 53.66 | 74 | -20.34 |
| 11060.00 | H | Average | 20.98 | 21.83 | 42.81 | 54 | -11.19 |

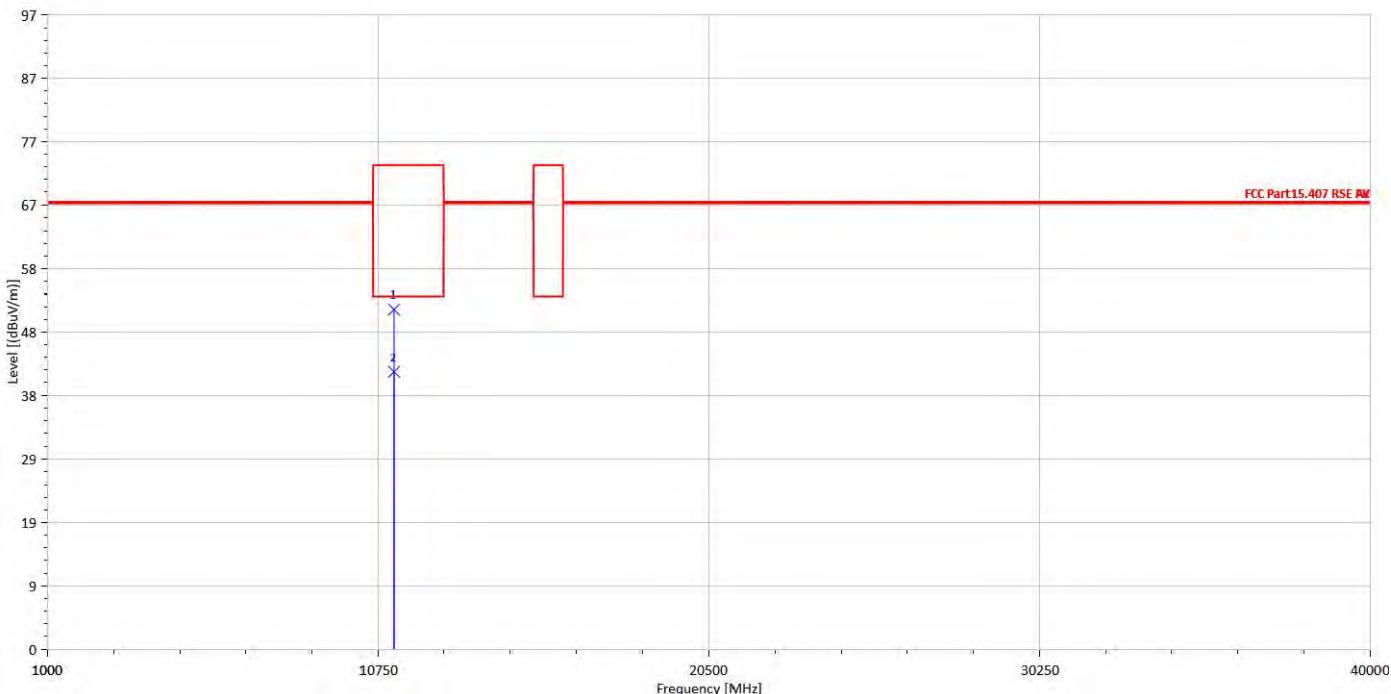
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Operation Mode : 802.11ac80 Test Date : 2016/8/25
Fundamental Frequency : 5610 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @ 3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|-------------------------------|--------------|
| 11220.00 | H | Peak | 30.67 | 21.32 | 51.99 | 74 | -22.01 |
| 11220.00 | H | Average | 21.07 | 21.32 | 42.39 | 54 | -11.61 |

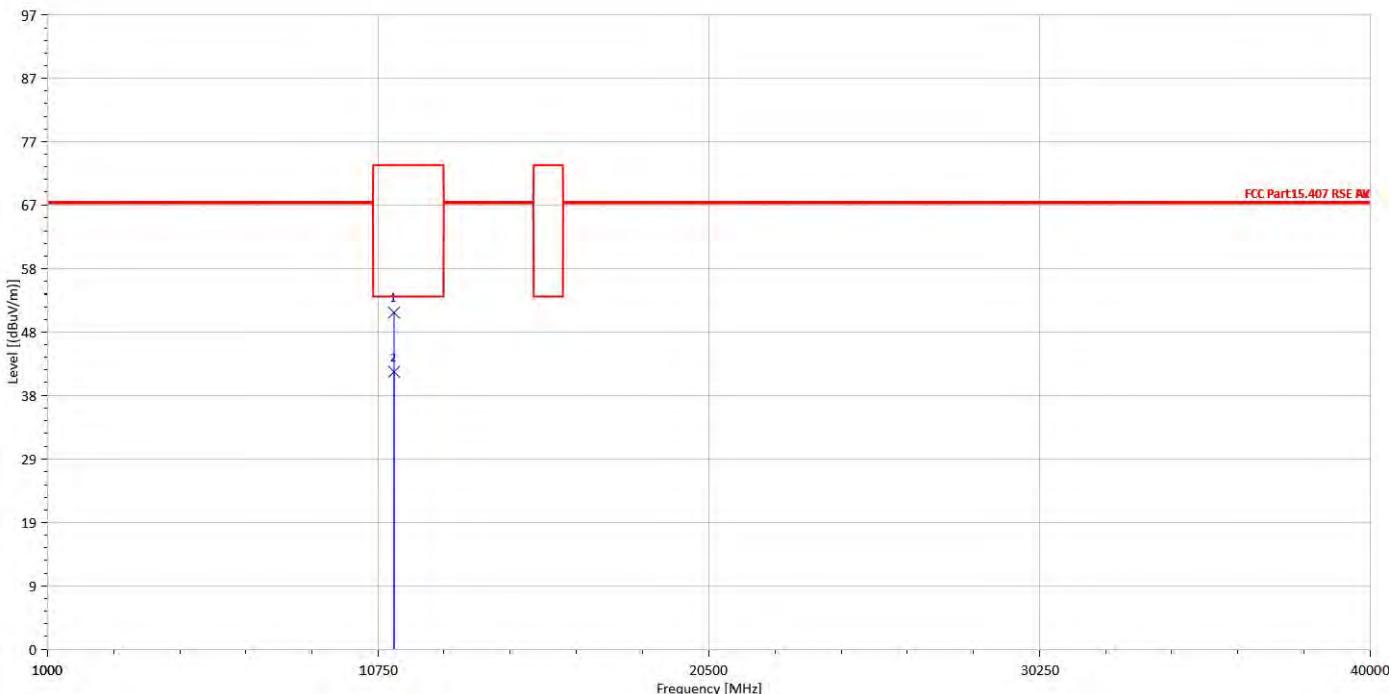
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Operation Mode : 802.11ac80 Test Date : 2016/8/25
Fundamental Frequency : 5610 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @ 3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|-------------------------------|--------------|
| 11220.00 | H | Peak | 30.20 | 21.32 | 51.52 | 74 | -22.48 |
| 11220.00 | H | Average | 21.08 | 21.32 | 42.40 | 54 | -11.60 |

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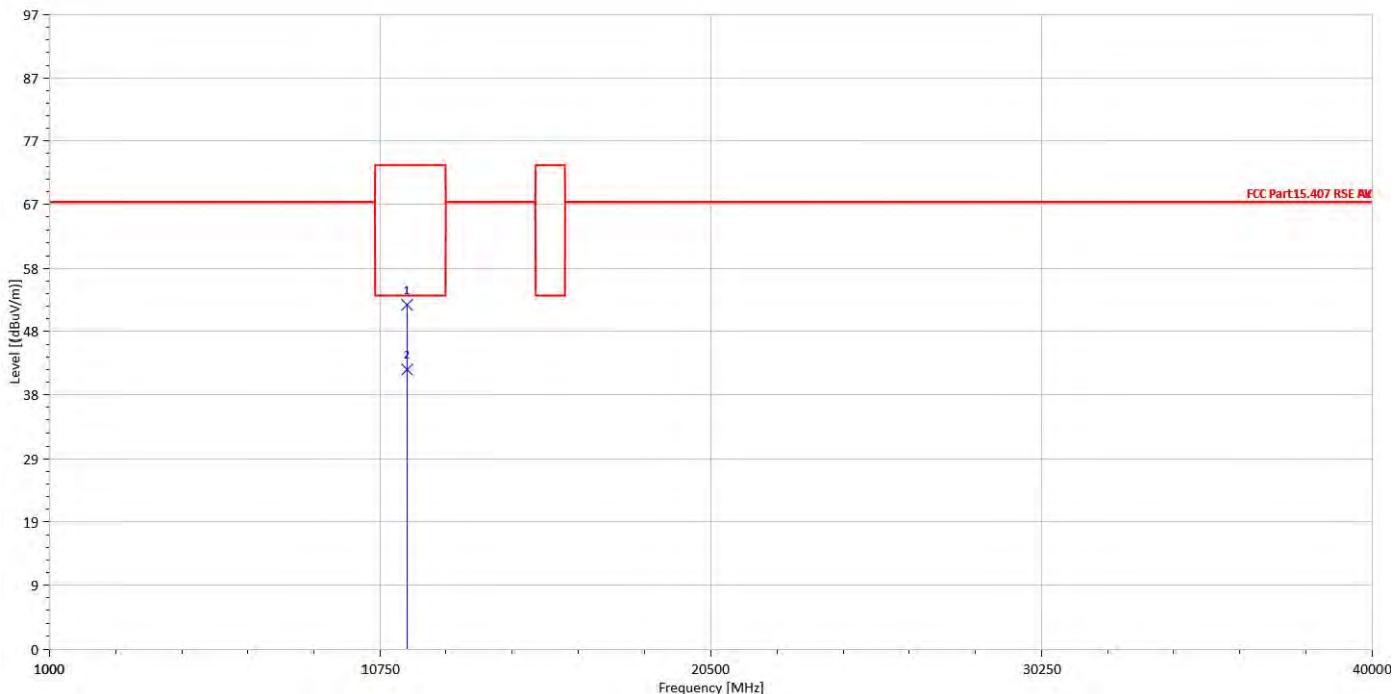
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Mode : 802.11ac80 Test Date : 2016/8/25
Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



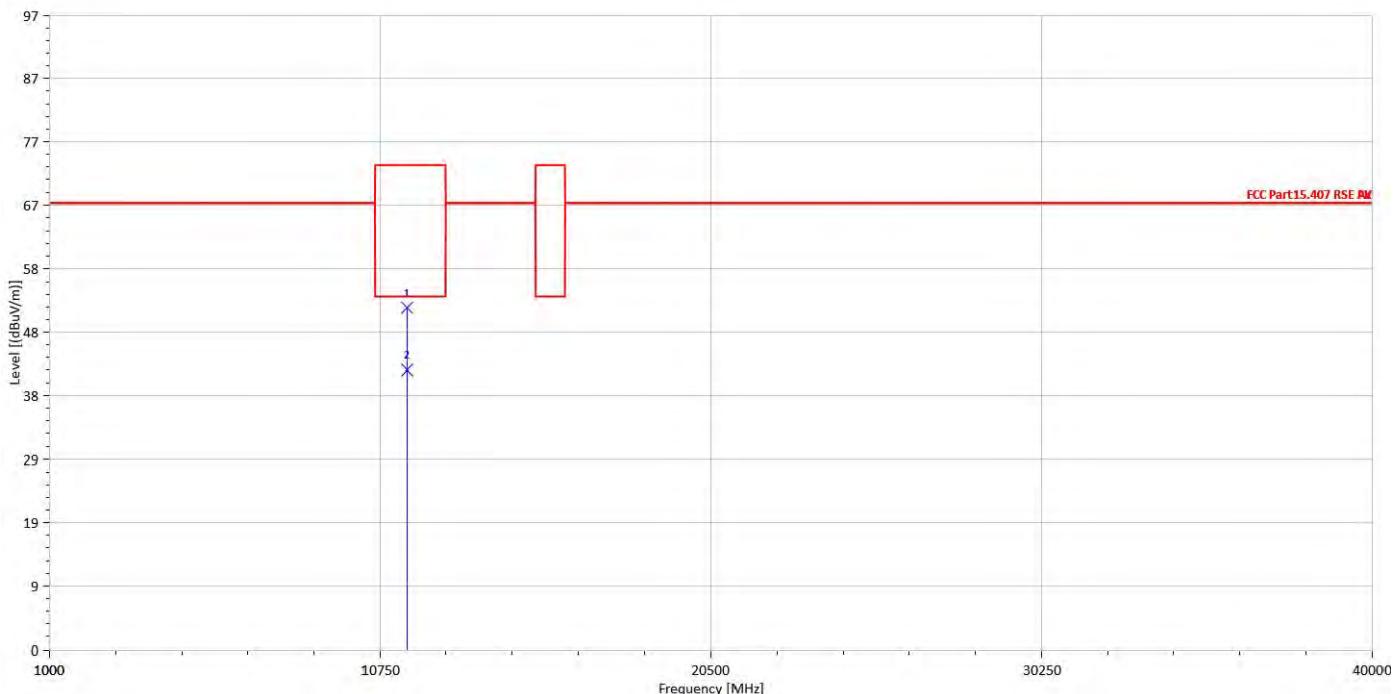
| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @ 3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|-------------------------------|--------------|
| 11550.00 | H | Peak | 31.16 | 21.41 | 52.58 | 74 | -21.42 |
| 11550.00 | H | Average | 21.31 | 21.41 | 42.72 | 54 | -11.28 |

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

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Operation Mode : 802.11ac80 Test Date : 2016/8/25
Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11550.00 | H | Peak | 30.87 | 21.41 | 52.28 | 74 | -21.72 |
| 11550.00 | H | Average | 21.31 | 21.41 | 42.72 | 54 | -11.28 |

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

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