

FCC Test Report (Class II Permissive Change)

| | |
|--------------|---------------------------------|
| Product Name | 802.11ac Dual Band Access Point |
| Model No | WK-1,WK-1-B,WK-1-C,WK-1-CB |
| FCC ID | SLY-WK1X22 |

| | |
|-----------|---|
| Applicant | Pakedge Device and Software Inc. |
| Address | 3847 Breakwater Avenue, Hayward, CA 94545 |

| | |
|-----------------|---------------------|
| Date of Receipt | June. 24, 2015 |
| Issued Date | Aug. 17, 2015 |
| Report No. | 1560591R-RFUSP05V00 |
| Report Version | V1.0 |



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

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Test Report

Issued Date: Aug. 17, 2015

Report No.: 1560591R-RFUSP05V00



| | |
|---------------------|--|
| Product Name | 802.11ac Dual Band Access Point |
| Applicant | Pakedge Device and Software Inc. |
| Address | 3847 Breakwater Avenue, Hayward, CA 94545 |
| Manufacturer | Pakedge Device and Software Inc. |
| Factory | Lite-On Network Communication (Dongguan) Limited |
| Model No. | WK-1, WK-1-B, WK-1-C, WK-1-CB |
| FCC ID. | SLY-WK1X22 |
| EUT Rated Voltage | AC 100-240V, 50-60Hz |
| EUT Test Voltage | AC 120V/60Hz |
| Trade Name | Pakedge |
| Applicable Standard | FCC CFR Title 47 Part 15 Subpart E: 2014 ANSI C63.4: 2014, ANSI C63.10: 2013 789033 D02 General UNII Test Procedures New Rules v01 |
| Test Result | Complied |

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(Senior Adm. Specialist / Leven Huang)

Tested By : Jerry Tsai
(Engineer / Jerry Tsai)

Approved By : Vincent Lin
(Director / Vincent Lin)

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1. GENERAL INFORMATION

1.1. EUT Description

| | |
|--------------------|--|
| Product Name | 802.11ac Dual Band Access Point |
| Trade Name | Pakedge |
| FCC ID. | SLY-WK1X22 |
| Model No. | WK-1,WK-1-B,WK-1-C,WK-1-CB |
| Frequency Range | 802.11a/n-20MHz: 5260-5320MHz, 5500-5700MHz 802.11n-40MHz: 5270-5310MHz, 5510-5670MHz 802.11ac-80MHz: 5290MHz, 5530-5610MHz |
| Number of Channels | 802.11a/n-20MHz: 15, n-40MHz: 7 802.11ac-80MHz: 3 |
| Data Rate | 802.11a: 6-54Mbps, 802.11n: up to 300Mbps 802.11ac-80MHz: up to 866.7MHz |
| Type of Modulation | 802.11a/n:OFDM, BPSK, QPSK, 16QAM, 64QAM, 256QAM |
| Antenna type | PIFA Antenna |
| Antenna Gain | Refer to the table “Antenna List” |
| Channel Control | Auto |
| LAN Cable | Non-Shielded, 1.8m |
| Power Adapter | MFR: Asian Power Devices, M/N: WB-18D12FU Input: AC 100-240V, 50-60Hz ,0.5A Output: DC 12V=1.5A Cable out: Non-Shielded, 1.8m |

Antenna List

| No. | Manufacturer | Part No. | Antenna Type | Peak Gain |
|-----|--------------|--------------|--------------|----------------------------|
| 1 | Lite-On | 30100006566D | PIFA Antenna | 5.0dBi for 5.250-5.350 GHz |
| | | 30100006716D | | 5.6dBi for 5.470-5.725 GHz |

Note: The antenna of EUT is conform to FCC 15.203

802.11a/n-20MHz Center Working Frequency of Each Channel:

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|--------------|-----------|--------------|-----------|--------------|-----------|--------------|-----------|
| Channel 52: | 5260 MHz | Channel 56: | 5280 MHz | Channel 60: | 5300 MHz | Channel 64: | 5320 MHz |
| Channel 100: | 5500 MHz | Channel 104: | 5520 MHz | Channel 108: | 5540 MHz | Channel 112: | 5560 MHz |
| Channel 116: | 5580 MHz | Channel 120: | 5600 MHz | Channel 124: | 5620 MHz | Channel 128: | 5640 MHz |
| Channel 132: | 5660 MHz | Channel 136: | 5680 MHz | Channel 140: | 5700 MHz | | |

802.11n-40MHz Center Working Frequency of Each Channel:

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|--------------|-----------|--------------|-----------|--------------|-----------|--------------|-----------|
| Channel 54: | 5270 MHz | Channel 62: | 5310 MHz | Channel 102: | 5510 MHz | Channel 110: | 5550 MHz |
| Channel 118: | 5590 MHz | Channel 126: | 5630 MHz | Channel 134: | 5670 MHz | | |

802.11ac-80MHz Center Working Frequency of Each Channel:

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|-------------|-----------|--------------|-----------|--------------|-----------|
| Channel 58: | 5290 MHz | Channel 106: | 5530 MHz | Channel 122: | 5610 MHz |

Note:

1. This device is a 802.11ac Dual Band Access Point with a built-in 5GHz WLAN transceiver.
2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
3. At result of pretests, module supports dual-channel transmission, only the worst case is shown in the report. (802.11a is chain A 、802.11n and 802.11ac is chain A+chain B)
4. The different of the each model is shown as below:

| Model Number | Description |
|--------------|----------------------|
| WK-1 | White |
| WK-1-B | Black |
| WK-1-C | Circular case ,White |
| WK-1-CB | Circular case ,Black |

5. This is to request a Class II permissive change for FCC ID: SLY-WK1X22, originally granted on 04/14/2015.

The differences are listed as below:

Change # 1: Original grant compliance band 1 and bans 3, this C2PC is add the frequency band of band 2a and band 2C by software.

Change # 2: All other hardware is identical with original granted.

6. Lowest and highest data rates are tested in each mode. Only worst case is shown in the report. (802.11a is 6Mbps 、802.11n(20M-BW) is 14.4Mbps 、802.11n(40M-BW) is 30Mbps 、802.11ac(20M-BW) is 14.4Mbps 、802.11ac(40M-BW) is 30Mbps and 802.11ac(80M-BW) is 65Mbps)
7. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart E for Unlicensed National Information Infrastructure devices.
8. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

| | |
|-----------|--|
| Test Mode | Mode 1: Transmit (802.11a-6Mbps) Mode 2: Transmit (802.11n-20BW 14.4Mbps) Mode 3: Transmit (802.11n-40BW 30Mbps) Mode 6 Transmit (802.11ac-80BW-65Mbps) |
|-----------|--|

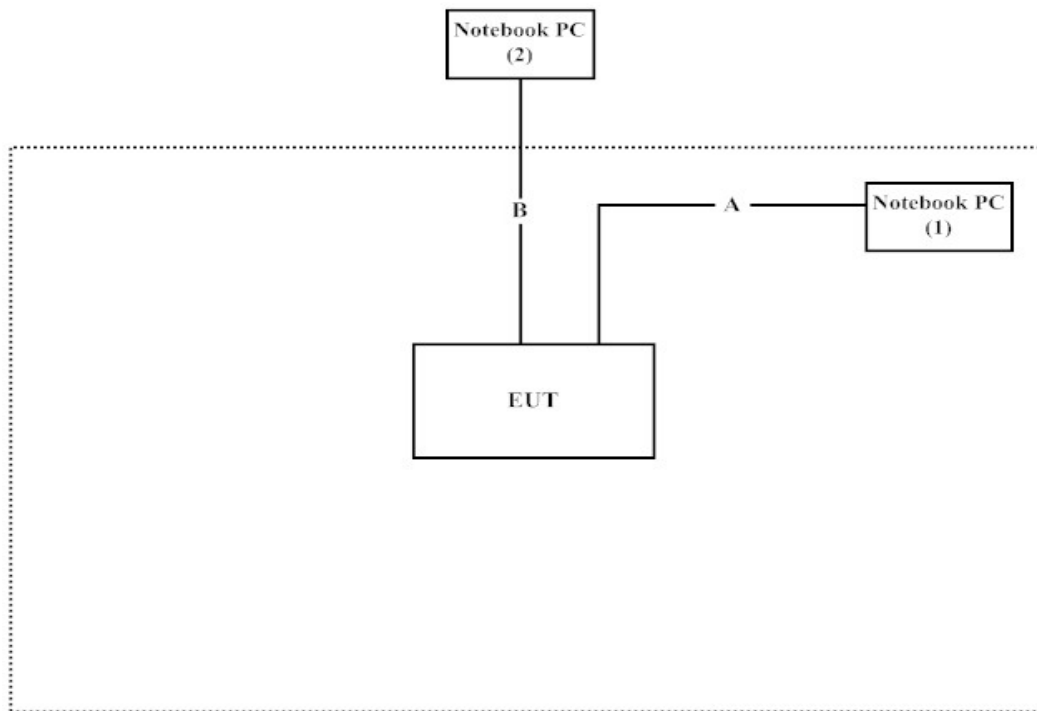
1.3. Tested System Details

List of support equipment and cables used during testing:

| Product | Manufacturer | Model No. | Serial No. | Power Cord | |
|---------|--------------|-----------|------------|------------|--------------------|
| 1 | Notebook PC | DELL | PPT | N/A | Non-Shielded, 1.8m |
| 2 | Notebook PC | DELL | PPT | N/A | Non-Shielded, 1.8m |

| Signal Cable Type | Signal cable Description |
|-------------------|--------------------------|
| A LAN Cable | Non-Shielded, 1.8m |
| B LAN Cable | Non-Shielded, 1.8m |

1.4. Configuration of tested System



1.5. EUT Exercise Software

- (1) Setup the EUT as shown on 1.4
- (2) Execute “ART2 GUI-V2.3” program on the Notebook PC.
- (3) Configure the test mode, the test channel, and the data rate.
- (4) Start the continuous transmission.
- (5) Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

| Items | Required (IEC 68-1) | Actual |
|----------------------------|---------------------|----------|
| Temperature (°C) | 15-35 | 20-35 |
| Humidity (%RH) | 25-75 | 50-65 |
| Barometric pressure (mbar) | 860-1060 | 950-1000 |

The related certificate for our laboratories test site and management system can be downloaded from Quietek Corporation's Web Site : <http://www.quietek.com/chinese/about/certificates.aspx?bval=5>

The address and introduction of Quietek Corporation's laboratories can be founded in our Web site : <http://www.quietek.com/>

Site Description: File on
 Federal Communications Commission
 FCC Engineering Laboratory
 7435 Oakland Mills Road
 Columbia, MD 21046
 Registration Number: 92195

Site Name: Quietek Corporation
 Site Address: No.5-22, Ruishukeng,
 Linkou Dist. New Taipei City 24451,
 Taiwan, R.O.C.
 TEL: 886-2-8601-3788 / FAX : 886-2-8601-3789
 E-Mail : service@quietek.com

FCC Accreditation Number: TW1014

2. Conducted Emission

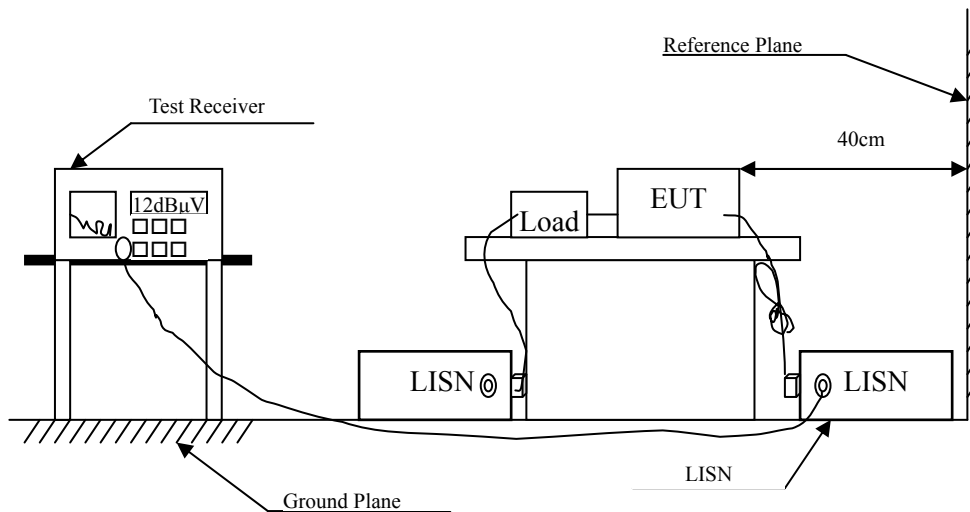
2.1. Test Equipment

| | Equipment | Manufacturer | Model No. / Serial No. | Last Cal. | Remark |
|---|--------------------------|--------------|------------------------|------------|-------------|
| X | Test Receiver | R & S | ESCS 30 / 825442/018 | Sep., 2014 | |
| X | Artificial Mains Network | R & S | ENV4200 / 848411/10 | Feb., 2015 | Peripherals |
| X | LISN | R & S | ESH3-Z5 / 825562/002 | Feb., 2015 | EUT |
| | DC LISN | Schwarzbeck | 8226 / 176 | Mar., 2015 | EUT |
| X | Pulse Limiter | R & S | ESH3-Z2 / 357.8810.52 | Feb., 2015 | |
| | No.1 Shielded Room | | | | |

Note:

1. All equipment is calibrated once a year or as required by manufacturer.
2. All equipment is calibrated to traceable calibration procedures.
3. The test instruments marked by "X" are used to measure the final test results.

2.2. Test Setup



2.3. Limits

| FCC Part 15 Subpart C Paragraph 15.207 (dBµV) Limit | | |
|--|--------|-------|
| Frequency MHz | Limits | |
| | QP | AV |
| 0.15 - 0.50 | 66-56 | 56-46 |
| 0.50-5.0 | 56 | 46 |
| 5.0 - 30 | 60 | 50 |

Remarks : In the above table, the tighter limit applies at the band edges.

2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

The EUT was setup to ANSI C63.4, 2014; tested to UNII test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

2.5. Uncertainty

± 2.26 dB

2.6. Test Result of Conducted Emission

Product : 802.11ac Dual Band Access Point
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 6 Transmit (802.11ac-80BW-65Mbps) (5290MHz)

| Frequency MHz | Correction Factor dB | Reading Level dBµV | Measurement Level dBµV | Margin dB | Limit dBµV |
|-------------------|----------------------------|--------------------------|------------------------------|--------------|---------------|
| LINE 1 | | | | | |
| Quasi-Peak | | | | | |
| 0.154 | 9.670 | 36.550 | 46.220 | -19.666 | 65.886 |
| 0.185 | 9.661 | 32.590 | 42.251 | -22.749 | 65.000 |
| 0.548 | 9.679 | 32.510 | 42.189 | -13.811 | 56.000 |
| 1.584 | 9.746 | 21.150 | 30.896 | -25.104 | 56.000 |
| 2.377 | 9.784 | 22.100 | 31.884 | -24.116 | 56.000 |
| 19.298 | 10.055 | 11.120 | 21.175 | -38.825 | 60.000 |
| Average | | | | | |
| 0.154 | 9.670 | 24.810 | 34.480 | -21.406 | 55.886 |
| 0.185 | 9.661 | 22.480 | 32.141 | -22.859 | 55.000 |
| 0.548 | 9.679 | 30.460 | 40.139 | -5.861 | 46.000 |
| 1.584 | 9.746 | 15.740 | 25.486 | -20.514 | 46.000 |
| 2.377 | 9.784 | 14.650 | 24.434 | -21.566 | 46.000 |
| 19.298 | 10.055 | 1.060 | 11.115 | -38.885 | 50.000 |

Note:

1. All Reading Levels are Quasi-Peak or average value.
2. “” means the worst emission level.
3. Measurement Level = Reading Level + Correction Factor

Product : 802.11ac Dual Band Access Point
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 6 Transmit (802.11ac-80BW-65Mbps) (5290MHz)

| Frequency MHz | Correction Factor dB | Reading Level dBµV | Measurement Level dBµV | Margin dB | Limit dBµV |
|-------------------|----------------------------|--------------------------|------------------------------|--------------|---------------|
| LINE 2 | | | | | |
| Quasi-Peak | | | | | |
| 0.154 | 9.670 | 35.610 | 45.280 | -20.606 | 65.886 |
| 0.185 | 9.661 | 30.820 | 40.481 | -24.519 | 65.000 |
| 0.548 | 9.679 | 31.500 | 41.179 | -14.821 | 56.000 |
| 1.982 | 9.768 | 22.220 | 31.988 | -24.012 | 56.000 |
| 2.345 | 9.783 | 22.950 | 32.733 | -23.267 | 56.000 |
| 18.357 | 10.167 | 13.250 | 23.417 | -36.583 | 60.000 |
| Average | | | | | |
| 0.154 | 9.670 | 22.010 | 31.680 | -24.206 | 55.886 |
| 0.185 | 9.661 | 18.880 | 28.541 | -26.459 | 55.000 |
| 0.548 | 9.679 | 29.360 | 39.039 | -6.961 | 46.000 |
| 1.982 | 9.768 | 15.110 | 24.878 | -21.122 | 46.000 |
| 2.345 | 9.783 | 14.920 | 24.703 | -21.297 | 46.000 |
| 18.357 | 10.167 | 3.900 | 14.067 | -35.933 | 50.000 |

Note:

1. All Reading Levels are Quasi-Peak or average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correction Factor

Product : 802.11ac Dual Band Access Point
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 6 Transmit (802.11ac-80BW-65Mbps) (5530MHz)

| Frequency MHz | Correction Factor dB | Reading Level dBμV | Measurement Level dBμV | Margin dB | Limit dBμV |
|-------------------|----------------------------|--------------------------|------------------------------|--------------|---------------|
| LINE 1 | | | | | |
| Quasi-Peak | | | | | |
| 0.154 | 9.670 | 36.450 | 46.120 | -19.766 | 65.886 |
| 0.181 | 9.662 | 33.540 | 43.202 | -21.912 | 65.114 |
| 0.548 | 9.679 | 32.530 | 42.209 | -13.791 | 56.000 |
| 1.560 | 9.745 | 21.730 | 31.475 | -24.525 | 56.000 |
| 1.990 | 9.768 | 22.140 | 31.908 | -24.092 | 56.000 |
| 18.412 | 10.047 | 11.560 | 21.607 | -38.393 | 60.000 |
| Average | | | | | |
| 0.154 | 9.670 | 24.610 | 34.280 | -21.606 | 55.886 |
| 0.181 | 9.662 | 23.530 | 33.192 | -21.922 | 55.114 |
| 0.548 | 9.679 | 30.520 | 40.199 | -5.801 | 46.000 |
| 1.560 | 9.745 | 15.170 | 24.915 | -21.085 | 46.000 |
| 1.990 | 9.768 | 14.660 | 24.428 | -21.572 | 46.000 |
| 18.412 | 10.047 | 1.560 | 11.607 | -38.393 | 50.000 |

Note:

1. All Reading Levels are Quasi-Peak or average value.
2. "█" means the worst emission level.
3. Measurement Level = Reading Level + Correction Factor

Product : 802.11ac Dual Band Access Point
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 6 Transmit (802.11ac-80BW-65Mbps) (5530MHz)

| Frequency MHz | Correction Factor dB | Reading Level dBµV | Measurement Level dBµV | Margin dB | Limit dBµV |
|-------------------|----------------------------|--------------------------|------------------------------|--------------|---------------|
| LINE 2 | | | | | |
| Quasi-Peak | | | | | |
| 0.154 | 9.670 | 35.570 | 45.240 | -20.646 | 65.886 |
| 0.181 | 9.662 | 31.730 | 41.392 | -23.722 | 65.114 |
| 0.548 | 9.679 | 31.520 | 41.199 | -14.801 | 56.000 |
| 1.529 | 9.743 | 19.990 | 29.733 | -26.267 | 56.000 |
| 2.033 | 9.770 | 21.510 | 31.280 | -24.720 | 56.000 |
| 18.623 | 10.169 | 11.470 | 21.639 | -38.361 | 60.000 |
| Average | | | | | |
| 0.154 | 9.670 | 22.190 | 31.860 | -24.026 | 55.886 |
| 0.181 | 9.662 | 19.830 | 29.492 | -25.622 | 55.114 |
| 0.548 | 9.679 | 29.400 | 39.079 | -6.921 | 46.000 |
| 1.529 | 9.743 | 12.950 | 22.693 | -23.307 | 46.000 |
| 2.033 | 9.770 | 14.020 | 23.790 | -22.210 | 46.000 |
| 18.623 | 10.169 | 4.180 | 14.349 | -35.651 | 50.000 |

Note:

1. All Reading Levels are Quasi-Peak or average value.
2. "■" means the worst emission level.
3. Measurement Level = Reading Level + Correction Factor

3. Maximun conducted output power

3.1. Test Equipment

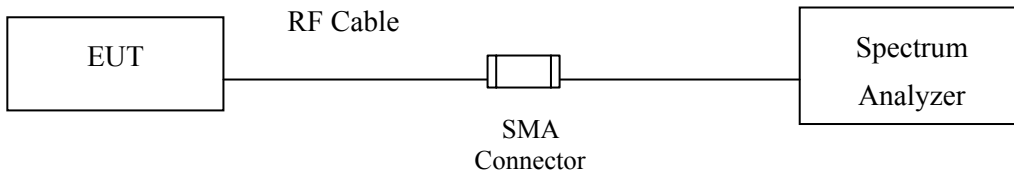
| | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|---|-------------------|--------------|----------------------|------------|
| X | Power Meter | Anritsu | ML2495A/6K00003357 | May, 2015 |
| X | Power Sensor | Anritsu | MA2411B/0738448 | Jun., 2015 |
| X | Spectrum Analyzer | Agilent | N9010A / MY48030495 | Apr., 2015 |

Note:

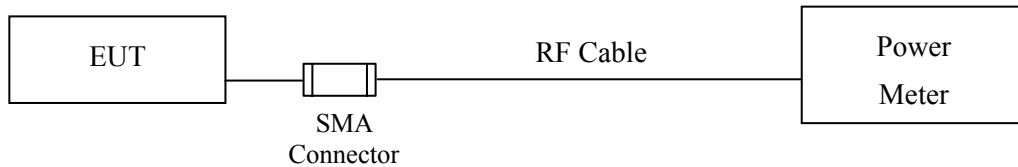
1. All equipment is calibrated once a year or as required by manufacturer.
2. All equipment is calibrated to traceable calibration procedures.
3. The test instruments marked with “X” are used to measure the final test results.

3.2. Test Setup

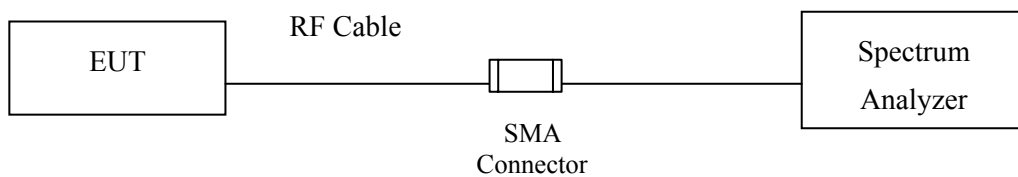
26dBc Occupied Bandwidth



Conduction Power Measurement (for 802.11a)



Conduction Power Measurement (for 802.11ac)



3.3. Limits

3.3.1. For the band 5.15-5.25 GHz,

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W, provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, if transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, if transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.2. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.3. For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, if transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point UNII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any

corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

3.4. Test Procedure

As an alternative to FCC KDB-789033, the EUT maximum conducted output power was measured with an average power meter employing a video bandwidth greater than the 6dB BW of the emission under test. Maximum conducted output power was read directly from the meter across all data rates, and across three channels within each sub-band. Special care was used to make sure that the EUT was transmitting in continuous mode. This method exceeds the limitations of FCC KDB-789033, and provides more accurate measurements.

802.11an (BW \leq 40MHz) Maximum conducted output power using KDB 789033 section E)3)b) Method PM-G (Measurement using a gated RF average power meter)

Note: the power meter have a video bandwidth that is greater than or equal to the measurement bandwidth, (Anritsu/ MA2411B video bandwidth: 65MHz)

802.11ac (BW=80MHz) Maximum conducted output power using KDB 789033 section E)2)b) Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep).

When transmitted signals consist of two or more non-contiguous spectrum segments (e.g., 80+80 MHz mode) or when a single spectrum segment of a transmission crosses the boundary between two adjacent U-NII bands, KDB 644545 D01 section F) procedure is used for measurements.

3.5. Uncertainty

± 1.27 dB

3.6. Test Result of Maximum conducted output power

Product : 802.11ac Dual Band Access Point
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps)

Chain A

| Cable loss=1dB | | Maximum conducted output power | | | | | | | |
|----------------|-----------------|--------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Channel No. | Frequency (MHz) | Data Rate (Mbps) | | | | | | | |
| | | 6 | 9 | 12 | 18 | 24 | 36 | 48 | 54 |
| | | Measurement Level (dBm) | | | | | | | |
| 52 | 5260 | 18.31 | -- | -- | -- | -- | -- | -- | -- |
| 60 | 5300 | 18.23 | 18.11 | 17.99 | 17.87 | 17.75 | 17.63 | 17.51 | 17.39 |
| 64 | 5320 | 18.95 | -- | -- | -- | -- | -- | -- | -- |
| 100 | 5500 | 17.93 | -- | -- | -- | -- | -- | -- | -- |
| 116 | 5580 | 18.14 | 18.02 | 17.9 | 17.78 | 17.66 | 17.54 | 17.42 | 17.31 |
| 140 | 5700 | 16.66 | -- | -- | -- | -- | -- | -- | -- |

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Chain B

| Cable loss=1dB | | Maximum conducted output power | | | | | | | |
|----------------|-----------------|--------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Channel No. | Frequency (MHz) | Data Rate (Mbps) | | | | | | | |
| | | 6 | 9 | 12 | 18 | 24 | 36 | 48 | 54 |
| | | Measurement Level (dBm) | | | | | | | |
| 52 | 5260 | 18.64 | -- | -- | -- | -- | -- | -- | -- |
| 60 | 5300 | 18.46 | 18.32 | 18.18 | 18.04 | 17.9 | 17.76 | 17.62 | 17.48 |
| 64 | 5320 | 19.26 | -- | -- | -- | -- | -- | -- | -- |
| 100 | 5500 | 18.2 | -- | -- | -- | -- | -- | -- | -- |
| 116 | 5580 | 18.57 | 18.42 | 18.27 | 18.12 | 17.97 | 17.82 | 17.67 | 17.52 |
| 140 | 5700 | 16.35 | -- | -- | -- | -- | -- | -- | -- |

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

(Chain A+ B) (High power):

| Channel Number | Frequency | 99% Bandwidth | Chain A Power | Chain B Power | Output Power | Output Power Limit | |
|----------------|-----------|---------------|---------------|---------------|--------------|--------------------|---------------|
| | | | | | | (dBm) | dBm+10log(BW) |
| | (MHz) | (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | |
| 52 | 5260 | 17.473 | 18.31 | 18.64 | 21.49 | 24 | 23.42 |
| 60 | 5300 | 17.458 | 18.23 | 18.46 | 21.36 | 24 | 23.42 |
| 64 | 5320 | 17.398 | 18.95 | 19.26 | 22.12 | 24 | 23.40 |
| 100 | 5500 | 17.408 | 17.93 | 18.20 | 21.08 | 24 | 23.41 |
| 116 | 5580 | 17.438 | 18.14 | 18.57 | 21.37 | 24 | 23.41 |
| 140 | 5700 | 17.457 | 16.66 | 16.35 | 19.52 | 24 | 23.42 |

Note:

1. Power Output Value =Reading value on average power meter + cable loss.
2. Output Power (dBm) = 10LOG (Chain A Power (mW) + Chain B Power (mW)).
3. 99% Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

Maximum conducted output power Measurement:

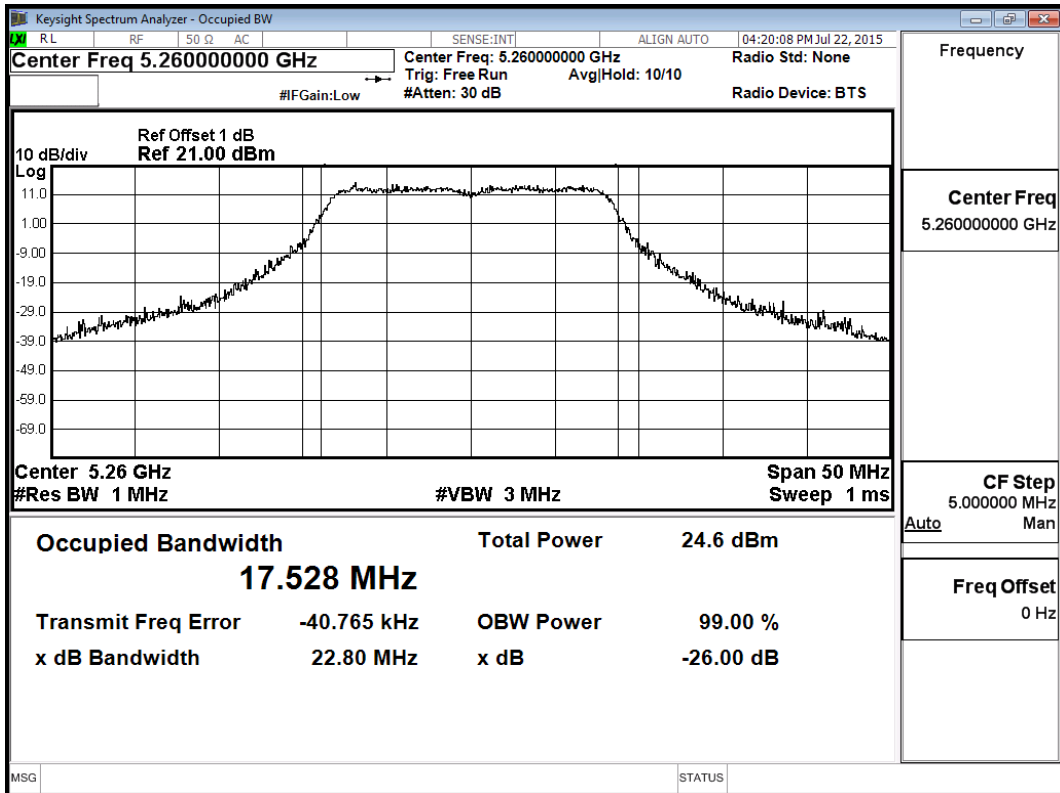
(Chain A+ B) (Low power):

| Channel Number | Frequency | Chain A Power | Chain B Power | Output Power | Antenna Gain | EIRP | EIRP Limit |
|----------------|-----------|---------------|---------------|--------------|--------------|-------|------------|
| | | | | | | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dBi) | (dBm) | (dBm) |
| 52 | 5260 | 11.29 | 11.58 | 14.45 | 5.0 | 19.45 | 24 |
| 60 | 5300 | 11.29 | 11.38 | 14.35 | 5.0 | 19.35 | 24 |
| 64 | 5320 | 11.84 | 12.10 | 14.98 | 5.0 | 19.98 | 24 |
| 100 | 5500 | 10.87 | 11.10 | 14.00 | 5.6 | 19.60 | 24 |
| 116 | 5580 | 11.03 | 11.59 | 14.33 | 5.6 | 19.93 | 24 |
| 140 | 5700 | 9.62 | 9.47 | 12.56 | 5.6 | 18.16 | 24 |

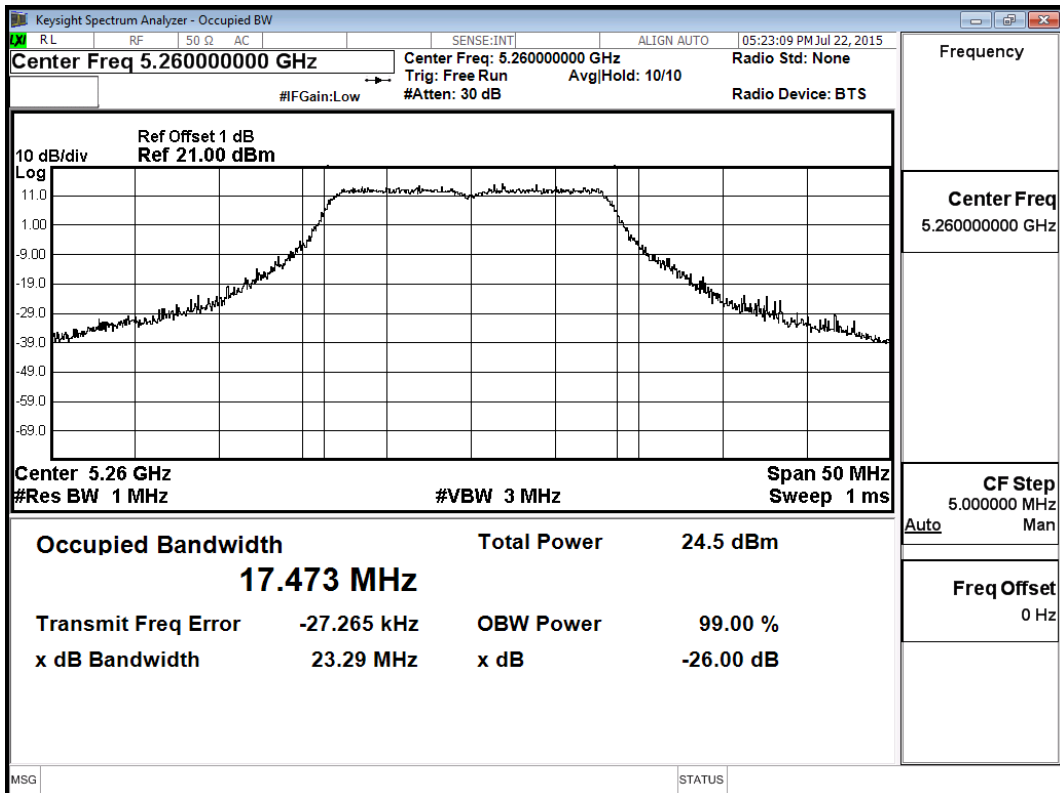
Note:

1. Power Output Value =Reading value on average power meter + cable loss.
2. Output Power (dBm) = 10LOG (Chain A Power (mW) + Chain B Power (mW)).
3. The EUT employ a TPC mechanism and the device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm.

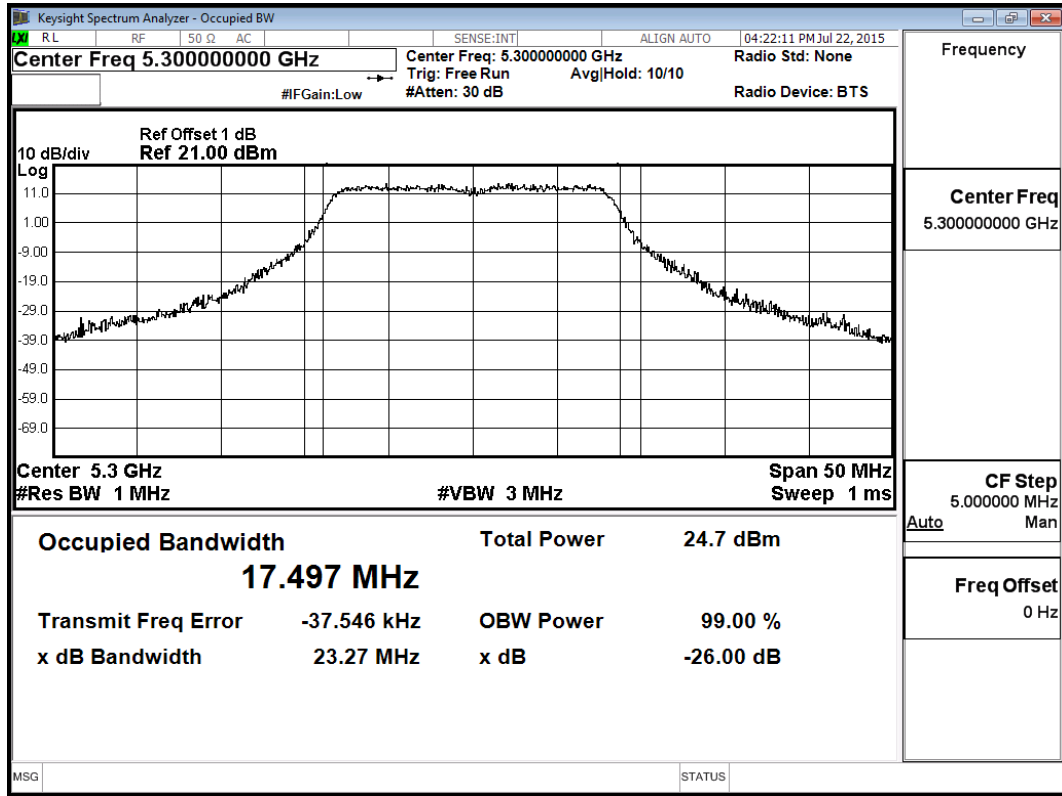
99% Occupied Bandwidth:
Channel 52: Chain A



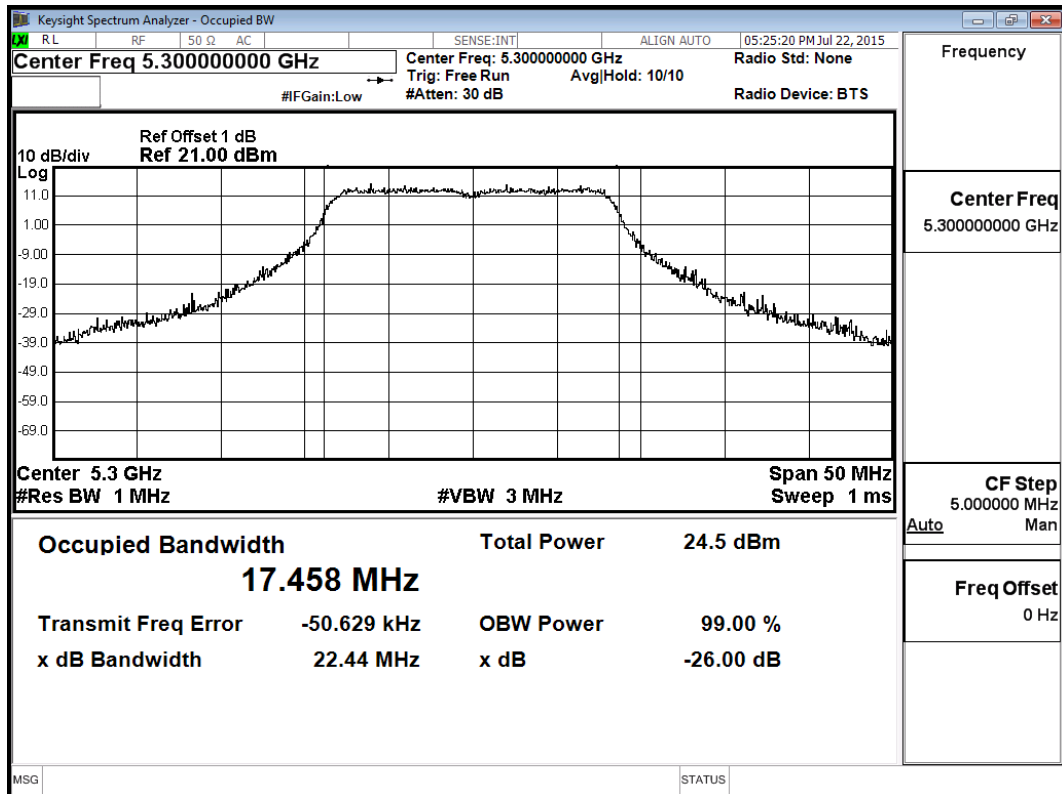
Channel 52: Chain B



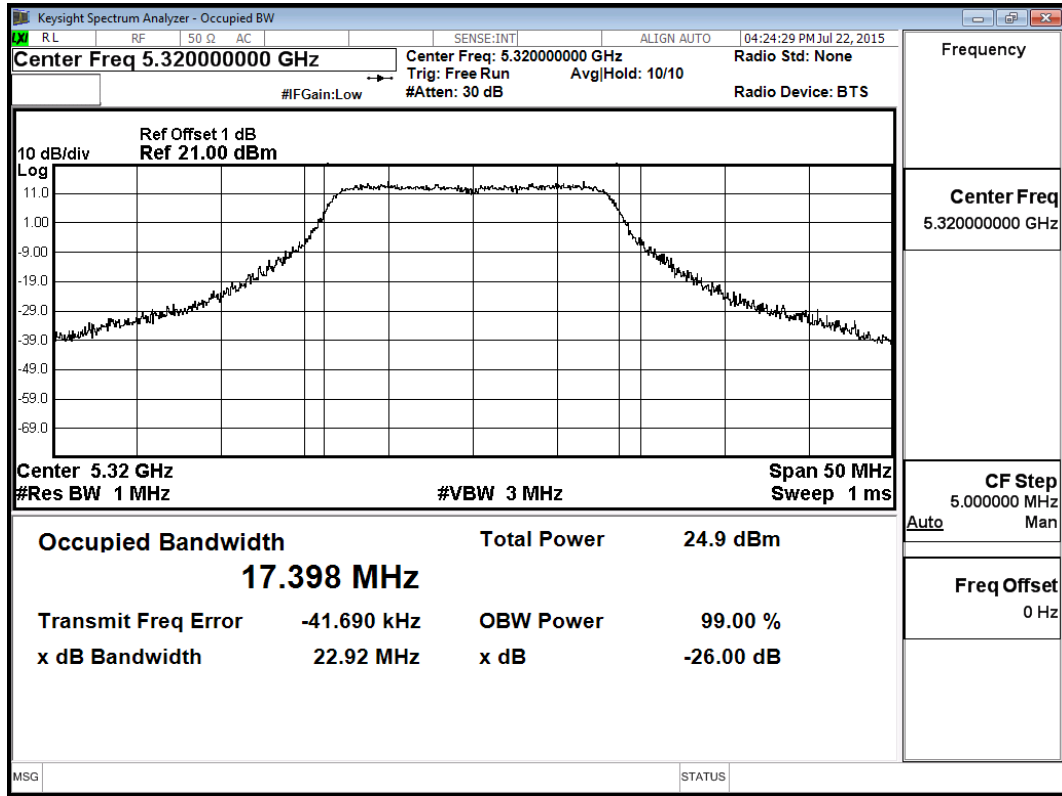
Channel 60: Chain A



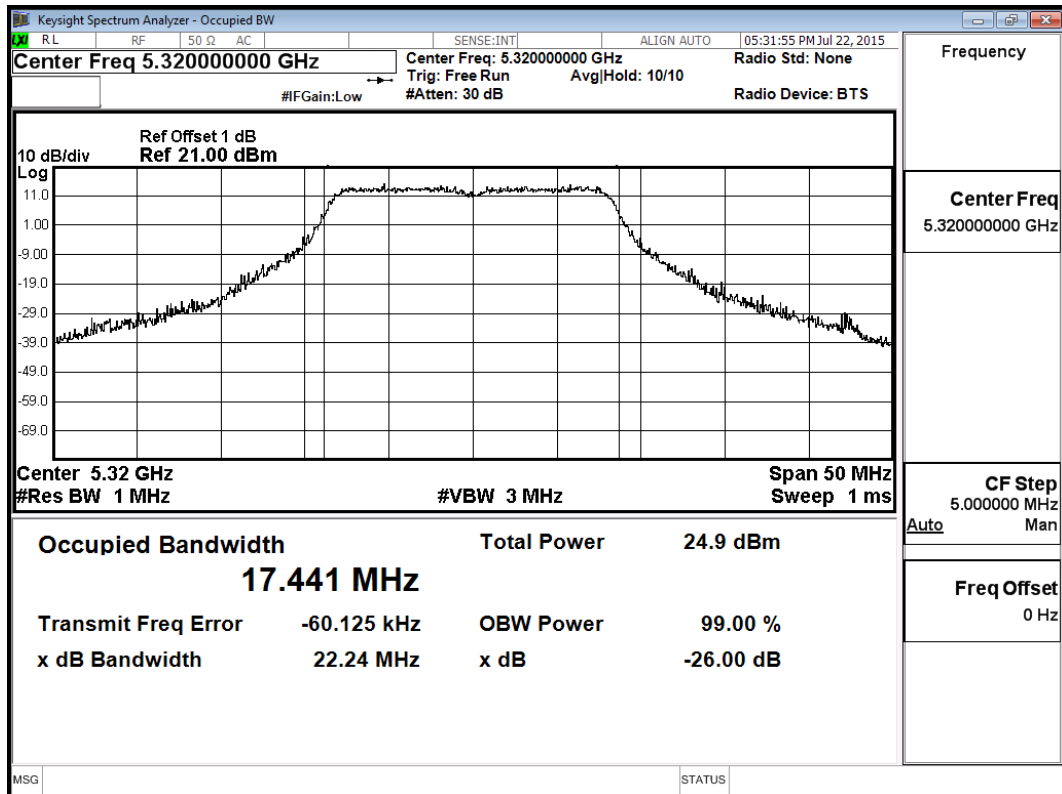
Channel 60: Chain B



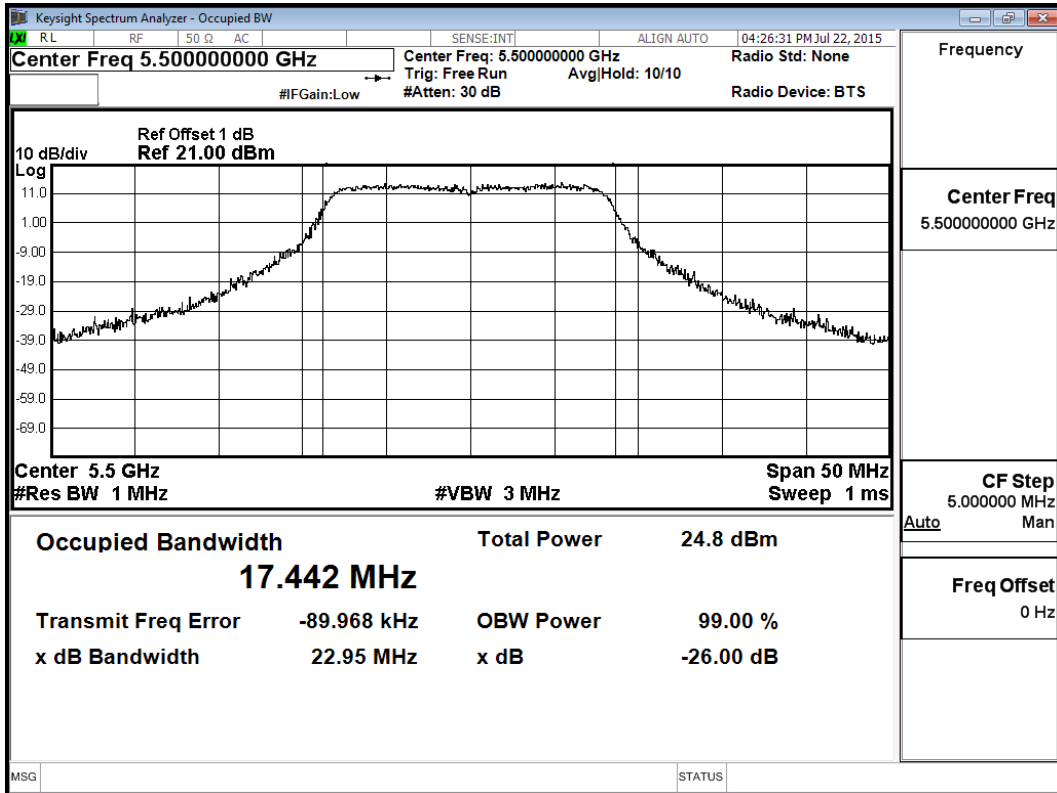
Channel 64: Chain A



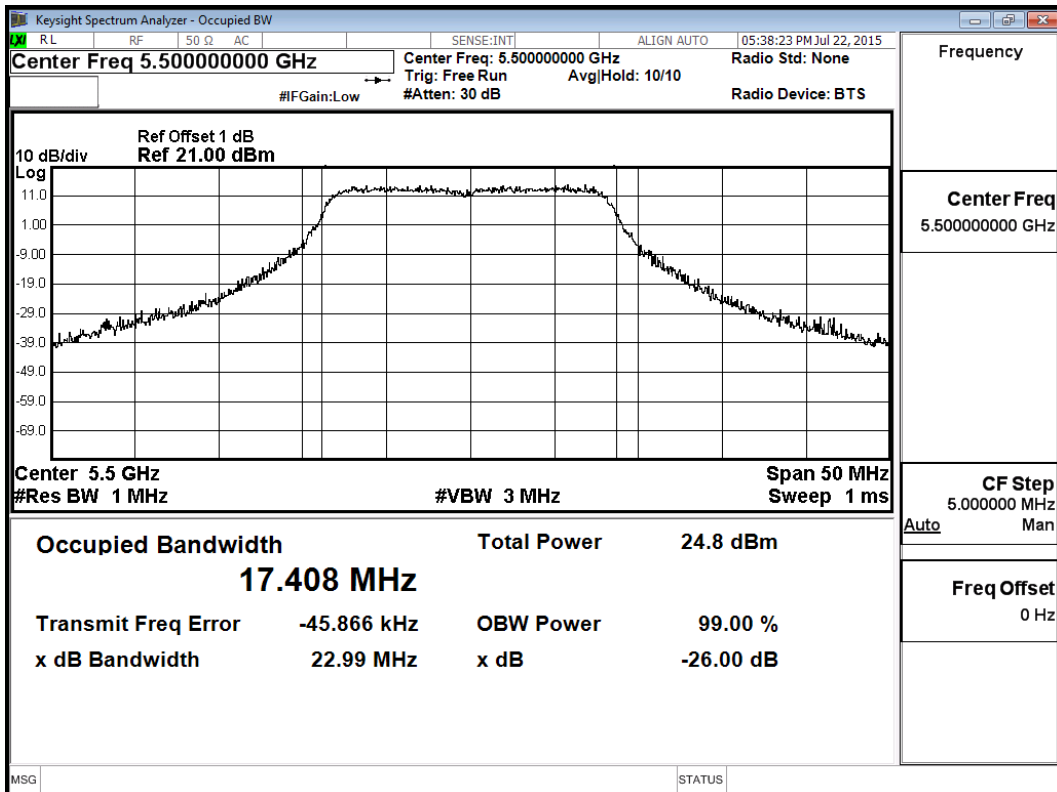
Channel 64: Chain B



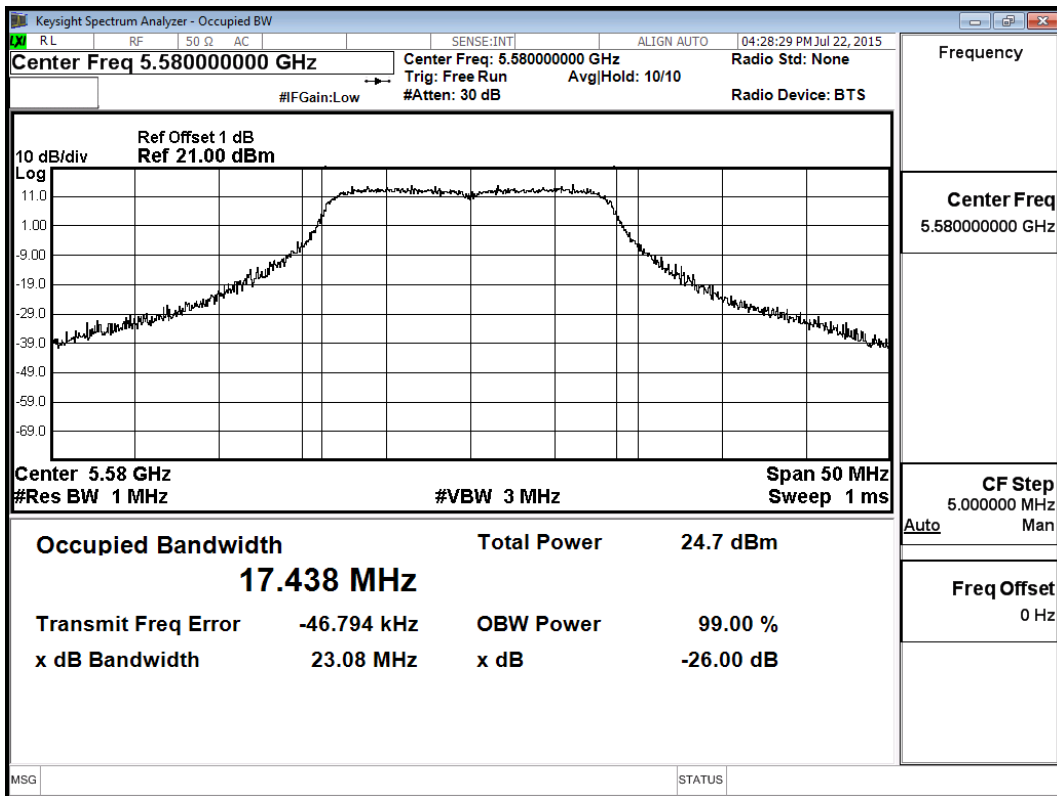
Channel 100: Chain A



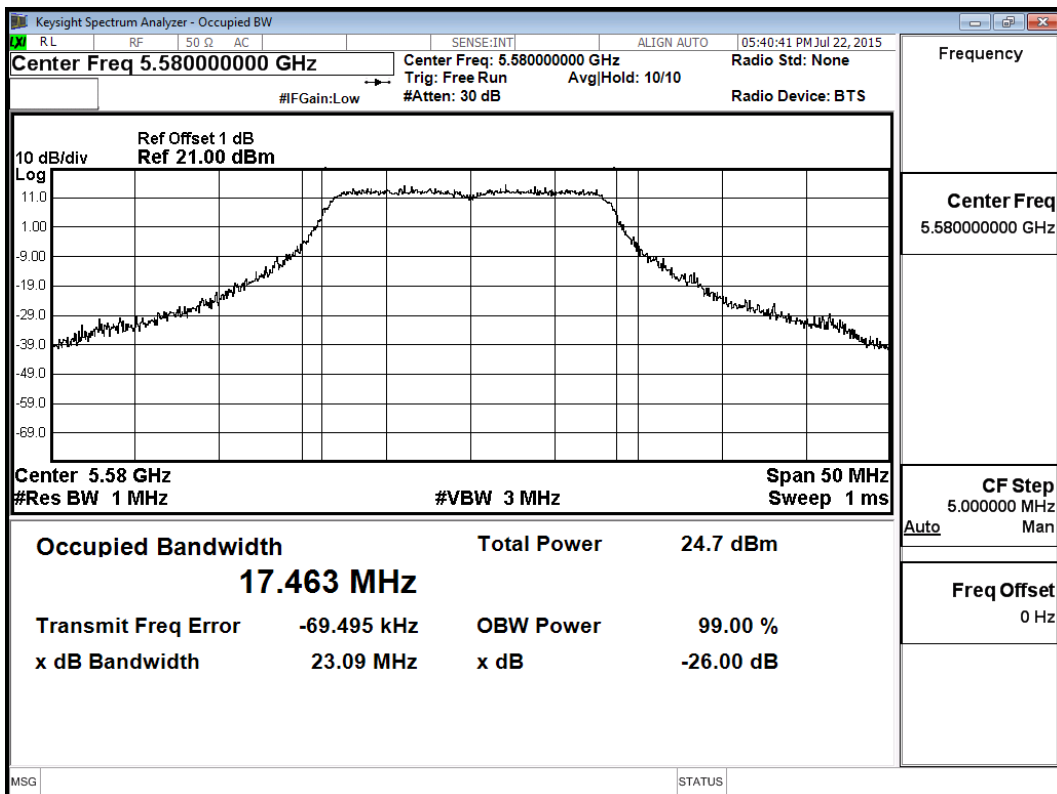
Channel 100: Chain B



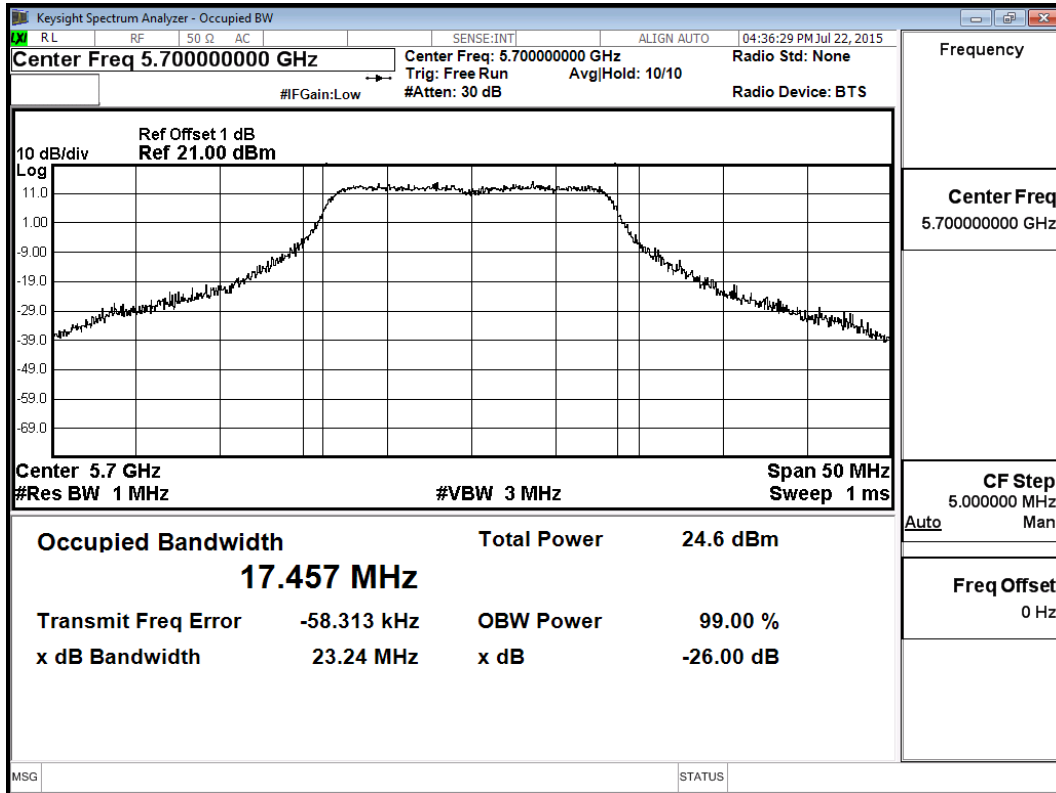
Channel 116: Chain A



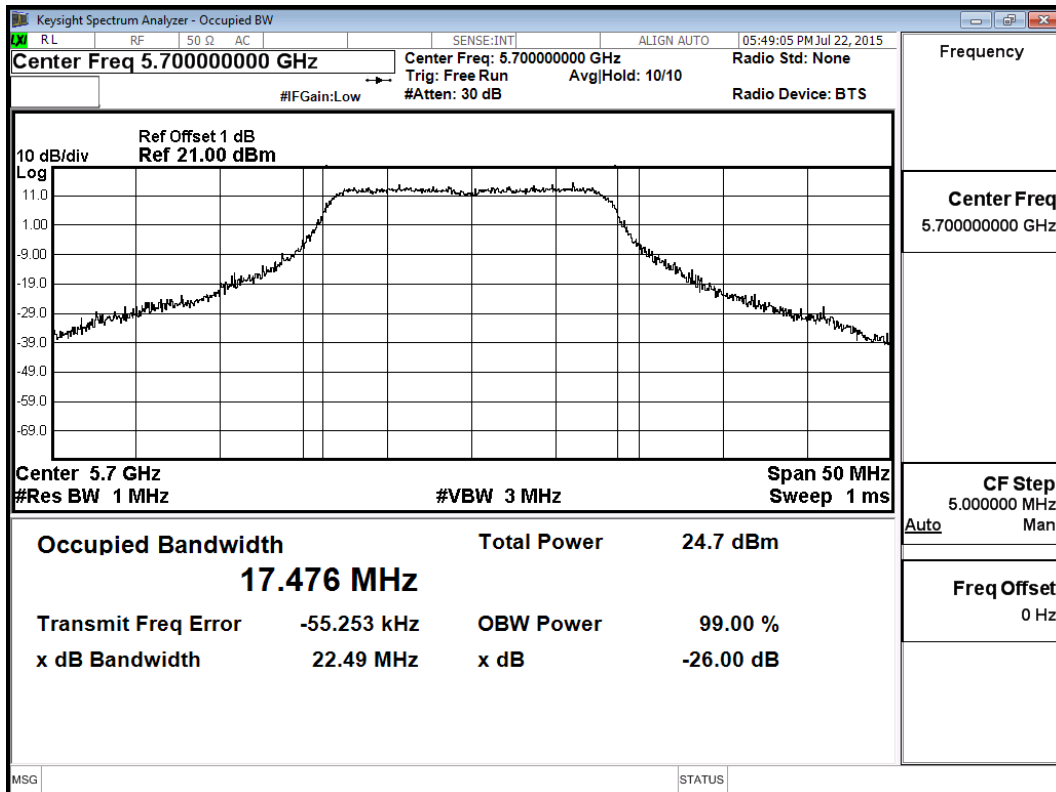
Channel 116: Chain B



Channel 140: Chain A



Channel 140: Chain B



Product : 802.11ac Dual Band Access Point
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW 14.4Mbps)

Chain A

| Cable loss=1dB | | Maximum conducted output power | | | | | | | |
|----------------|-----------------|--------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Channel No. | Frequency (MHz) | Data Rate (Mbps) | | | | | | | |
| | | 14.4 | 28.9 | 43.3 | 57.8 | 86.7 | 115.6 | 130 | 144.4 |
| | | Measurement Level (dBm) | | | | | | | |
| 52 | 5260 | 18.38 | -- | -- | -- | -- | -- | -- | -- |
| 60 | 5300 | 18.17 | 18.04 | 17.91 | 17.78 | 17.65 | 17.52 | 17.39 | 17.26 |
| 64 | 5320 | 18.88 | -- | -- | -- | -- | -- | -- | -- |
| 100 | 5500 | 17.95 | -- | -- | -- | -- | -- | -- | -- |
| 116 | 5580 | 18.24 | 18.12 | 18 | 17.88 | 17.76 | 17.64 | 17.52 | 17.4 |
| 140 | 5700 | 16.69 | -- | -- | -- | -- | -- | -- | -- |

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Chain B

| Cable loss=1dB | | Maximum conducted output power | | | | | | | |
|----------------|-----------------|--------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Channel No. | Frequency (MHz) | Data Rate (Mbps) | | | | | | | |
| | | 14.4 | 28.9 | 43.3 | 57.8 | 86.7 | 115.6 | 130 | 144.4 |
| | | Measurement Level (dBm) | | | | | | | |
| 52 | 5260 | 18.69 | -- | -- | -- | -- | -- | -- | -- |
| 60 | 5300 | 18.51 | 18.42 | 18.33 | 18.24 | 18.15 | 18.06 | 17.97 | 17.68 |
| 64 | 5320 | 19.12 | -- | -- | -- | -- | -- | -- | -- |
| 100 | 5500 | 18.11 | -- | -- | -- | -- | -- | -- | -- |
| 116 | 5580 | 18.56 | 18.42 | 18.28 | 18.14 | 18 | 17.86 | 17.72 | 17.58 |
| 140 | 5700 | 16.78 | -- | -- | -- | -- | -- | -- | -- |

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

(Chain A+ B) (High power):

| Channel Number | Frequency | 99% Bandwidth | Chain A Power | Chain B Power | Output Power | Output Power Limit | |
|----------------|-----------|---------------|---------------|---------------|--------------|--------------------|---------------|
| | | | | | | (dBm) | (dBm) |
| | (MHz) | (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | dBm+10log(BW) |
| 52 | 5260 | 18.572 | 18.38 | 18.69 | 21.55 | 24 | 23.69 |
| 60 | 5300 | 18.573 | 18.17 | 18.51 | 21.35 | 24 | 23.69 |
| 64 | 5320 | 18.706 | 18.88 | 19.12 | 22.01 | 24 | 23.72 |
| 100 | 5500 | 18.610 | 17.95 | 18.11 | 21.04 | 24 | 23.70 |
| 116 | 5580 | 18.588 | 18.24 | 18.56 | 21.41 | 24 | 23.69 |
| 140 | 5700 | 18.626 | 16.69 | 16.78 | 19.75 | 24 | 23.70 |

Note:

1. Power Output Value =Reading value on average power meter + cable loss
2. Output Power (dBm) = 10LOG (Chain A Power (mW) + Chain B Power (mW))
3. 99% Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

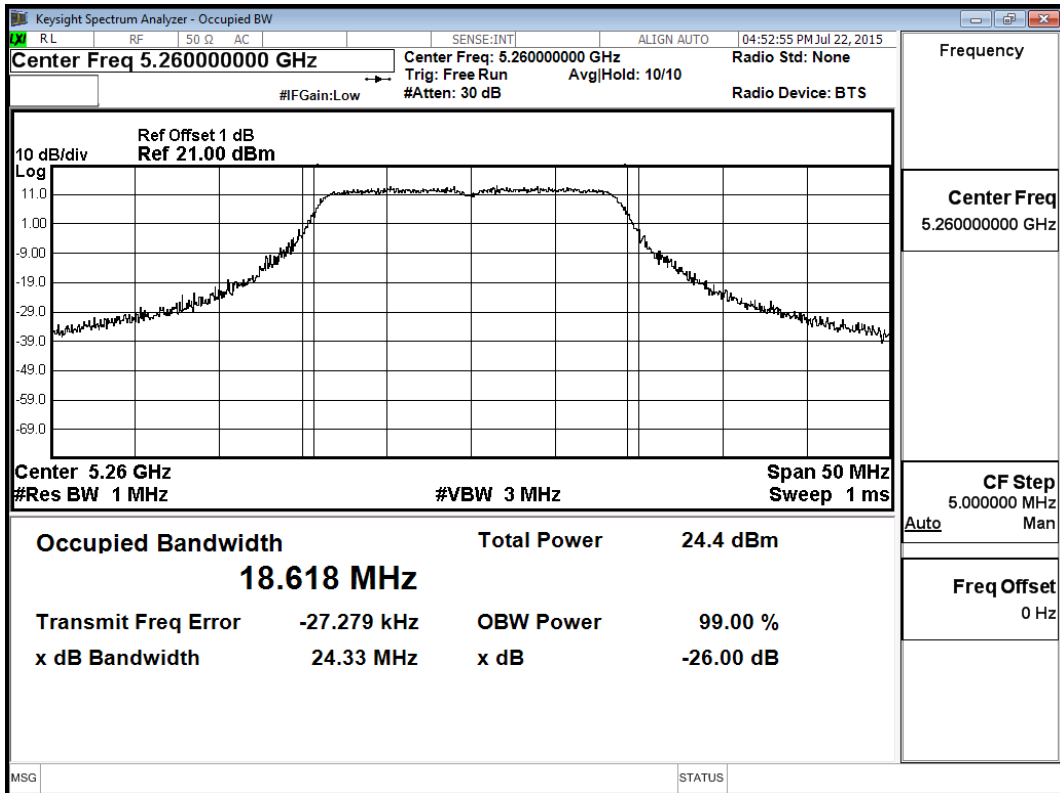
(Chain A+ B) (Low power):

| Channel Number | Frequency | Chain A Power | Chain B Power | Output Power | Antenna Gain | EIRP | EIRP Limit |
|----------------|-----------|---------------|---------------|--------------|--------------|-------|------------|
| | | | | | | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dBi) | (dBm) | (dBm) |
| 52 | 5260 | 11.44 | 11.75 | 14.61 | 5.0 | 19.61 | 24 |
| 60 | 5300 | 11.04 | 11.38 | 14.22 | 5.0 | 19.22 | 24 |
| 64 | 5320 | 11.79 | 12.03 | 14.92 | 5.0 | 19.92 | 24 |
| 100 | 5500 | 11.06 | 11.22 | 14.15 | 5.6 | 19.75 | 24 |
| 116 | 5580 | 11.16 | 11.48 | 14.33 | 5.6 | 19.93 | 24 |
| 140 | 5700 | 9.63 | 9.72 | 12.69 | 5.6 | 18.29 | 24 |

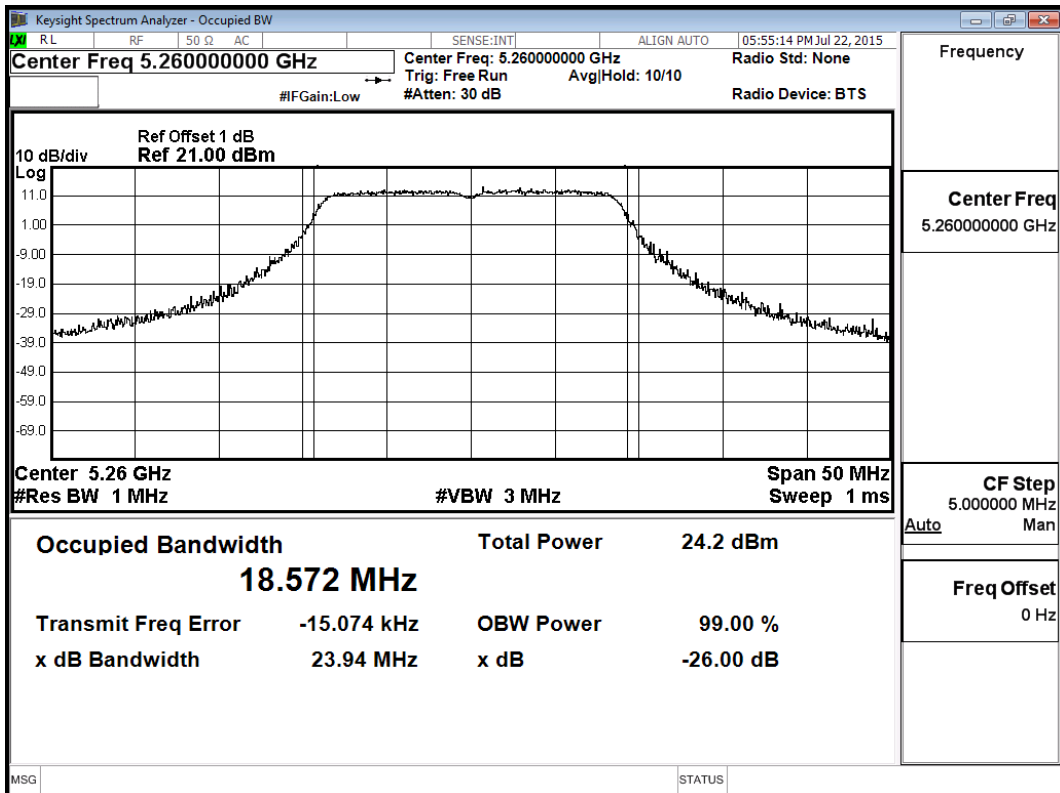
Note:

1. Power Output Value =Reading value on average power meter + cable loss
2. Output Power (dBm) = 10LOG (Chain A Power (mW) + Chain B Power (mW))
3. The EUT employ a TPC mechanism, the device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm.

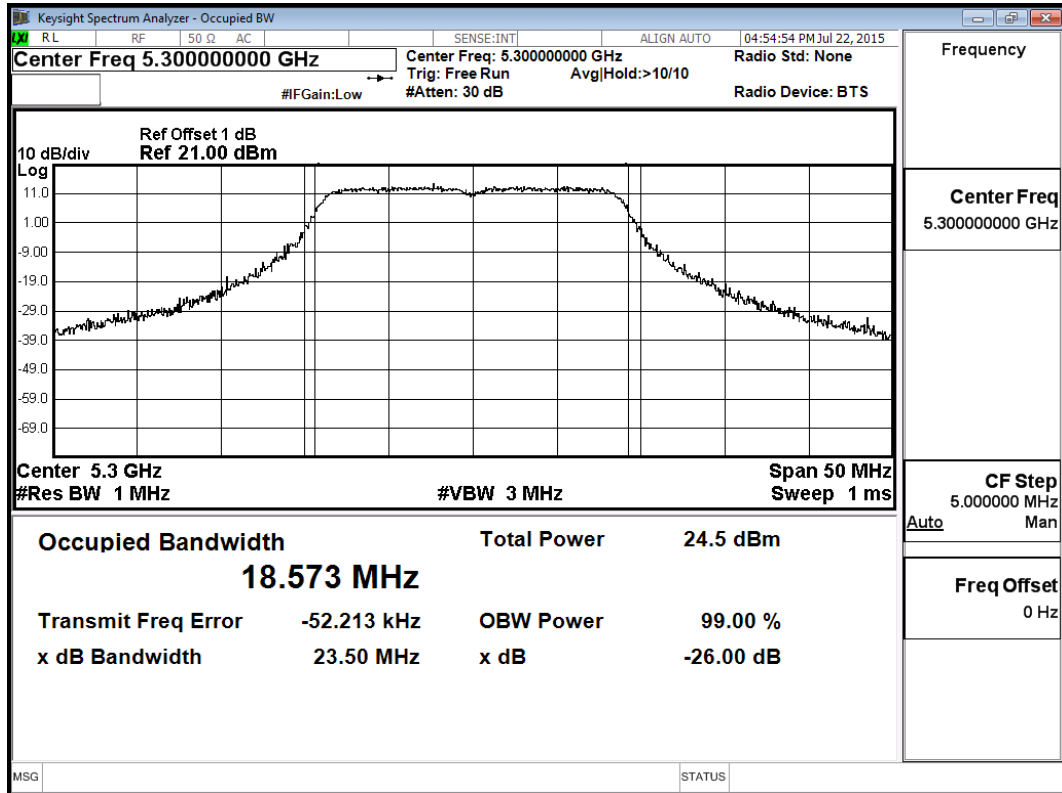
99% Occupied Bandwidth:
Channel 52: Chain A



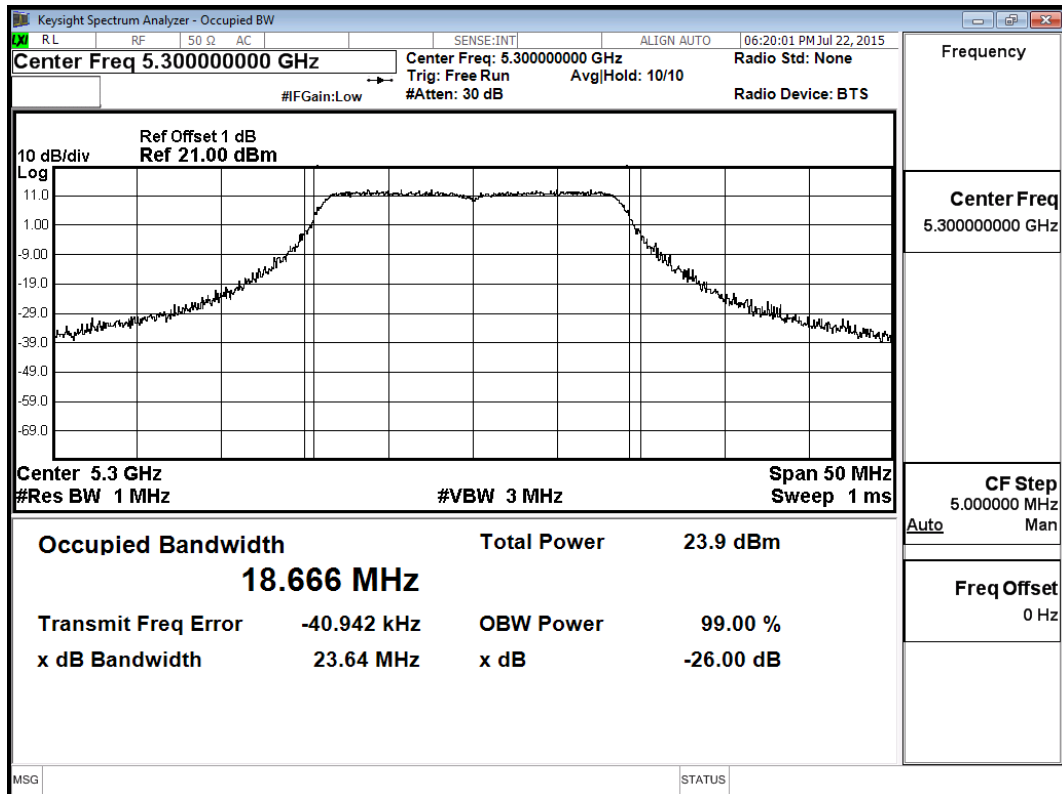
Channel 52: Chain B



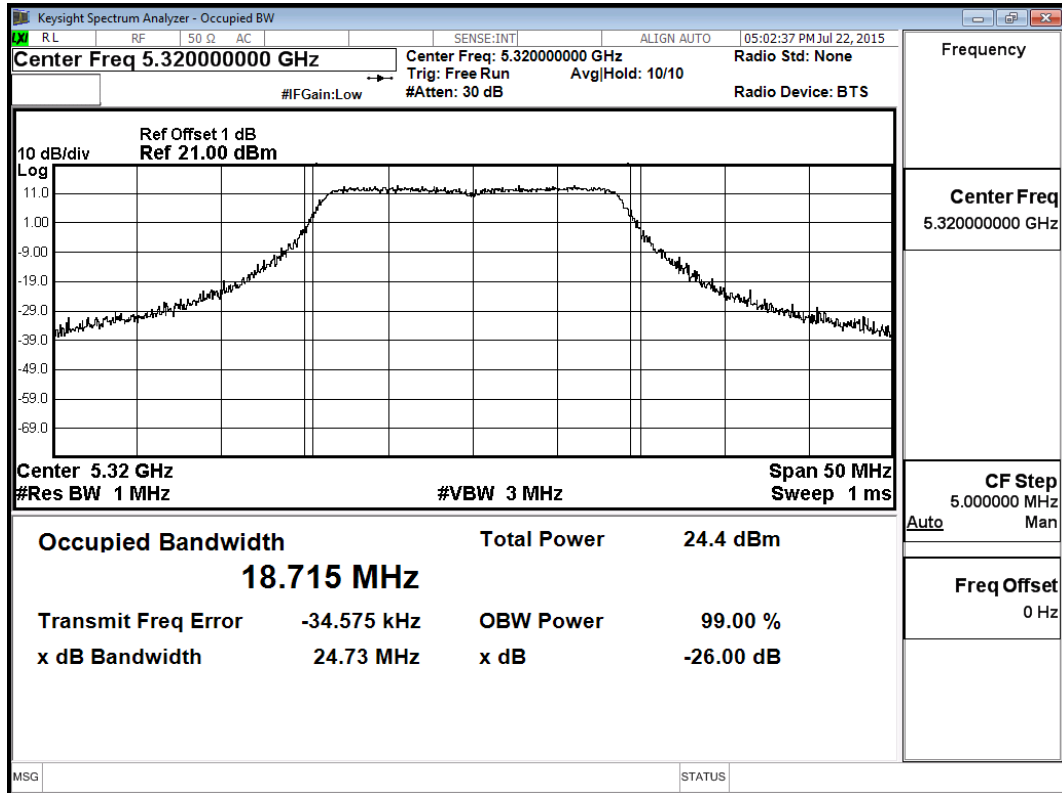
Channel 60: Chain A



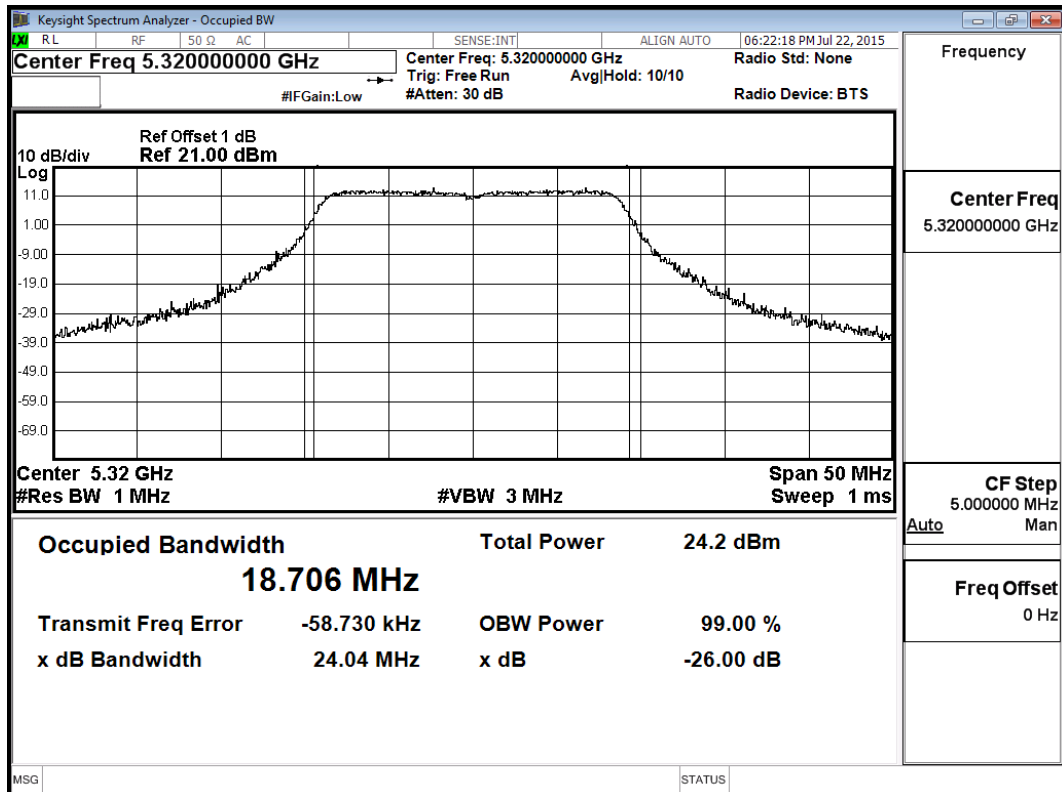
Channel 60: Chain B



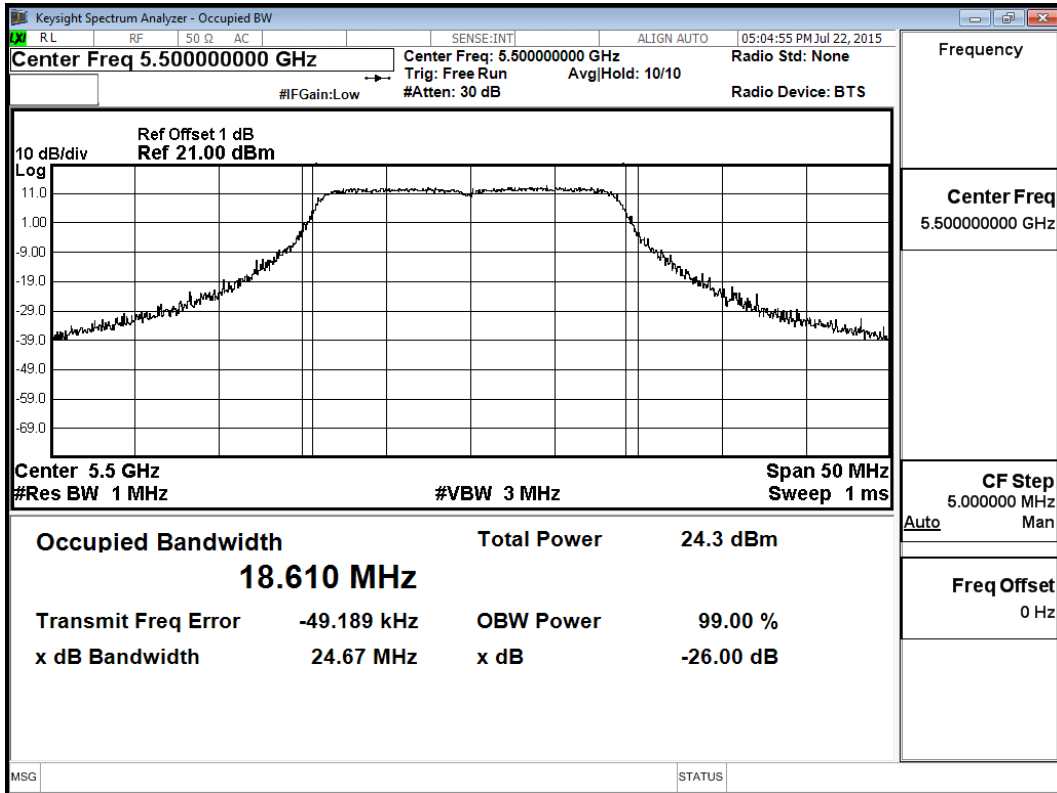
Channel 64: Chain A



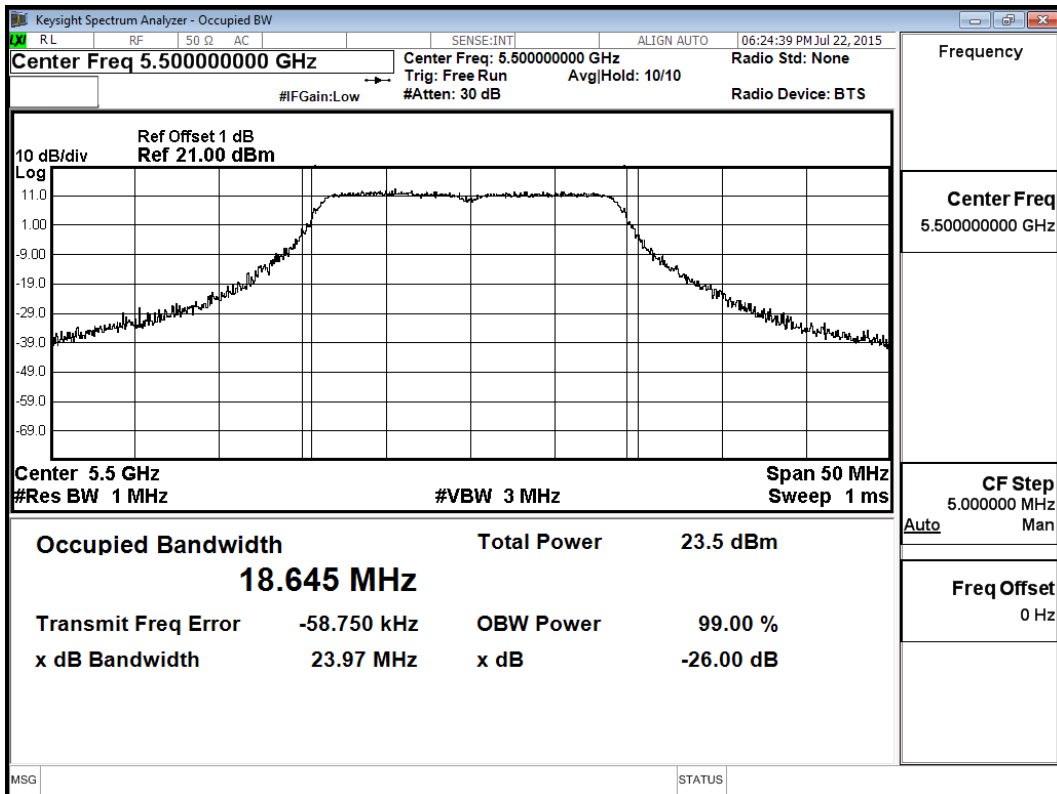
Channel 64: Chain B



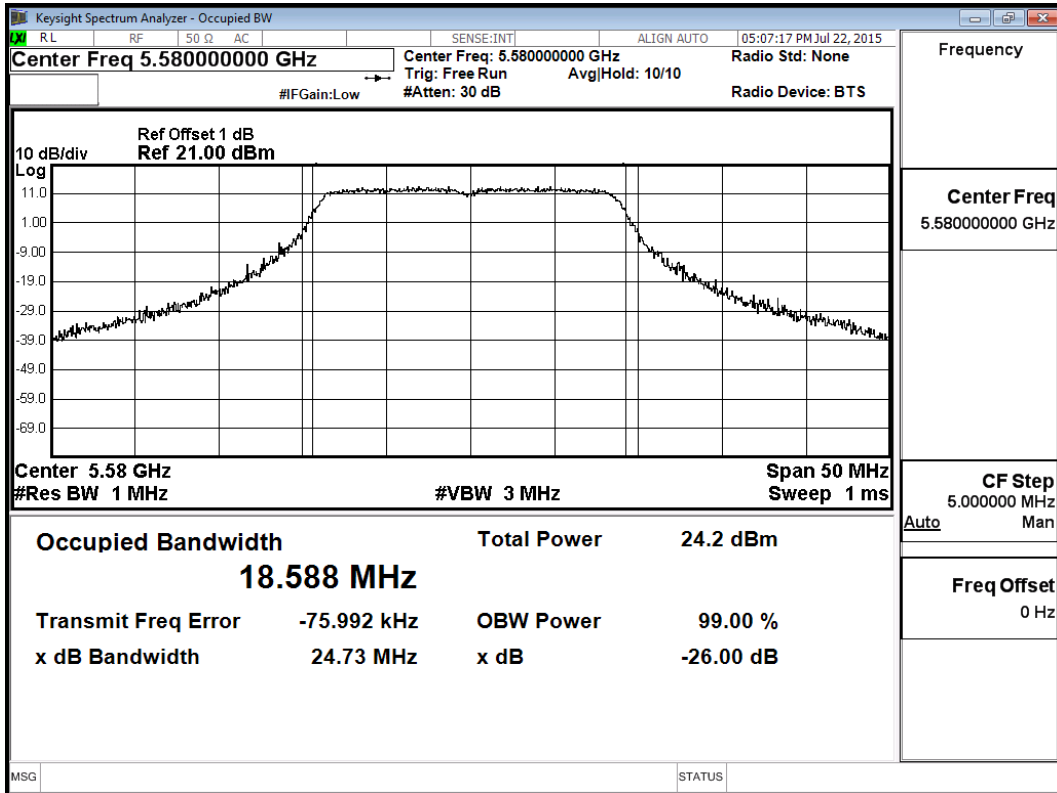
Channel 100: Chain A



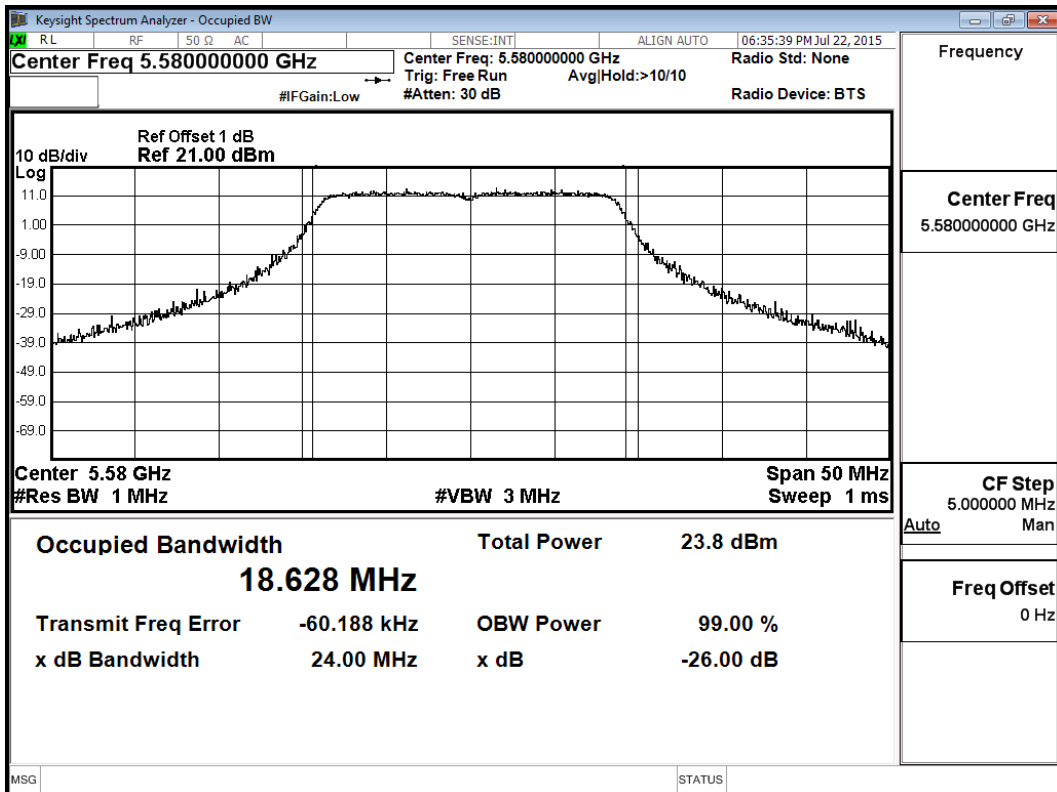
Channel 100: Chain B



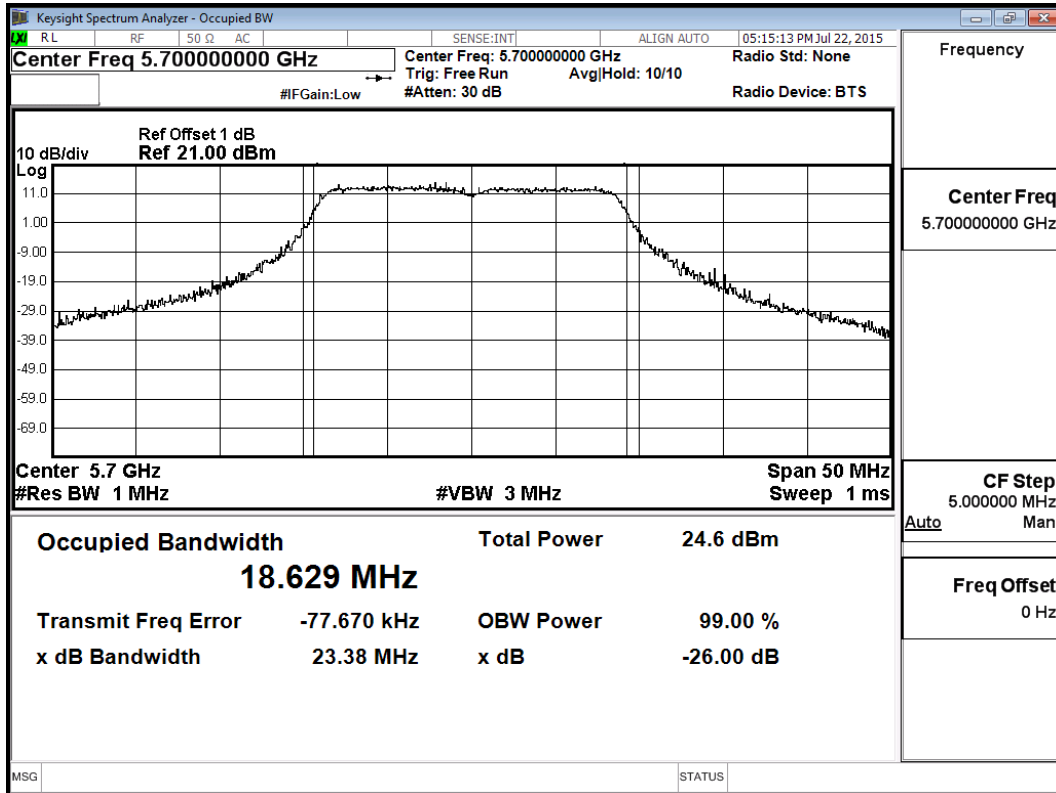
Channel 116: Chain A



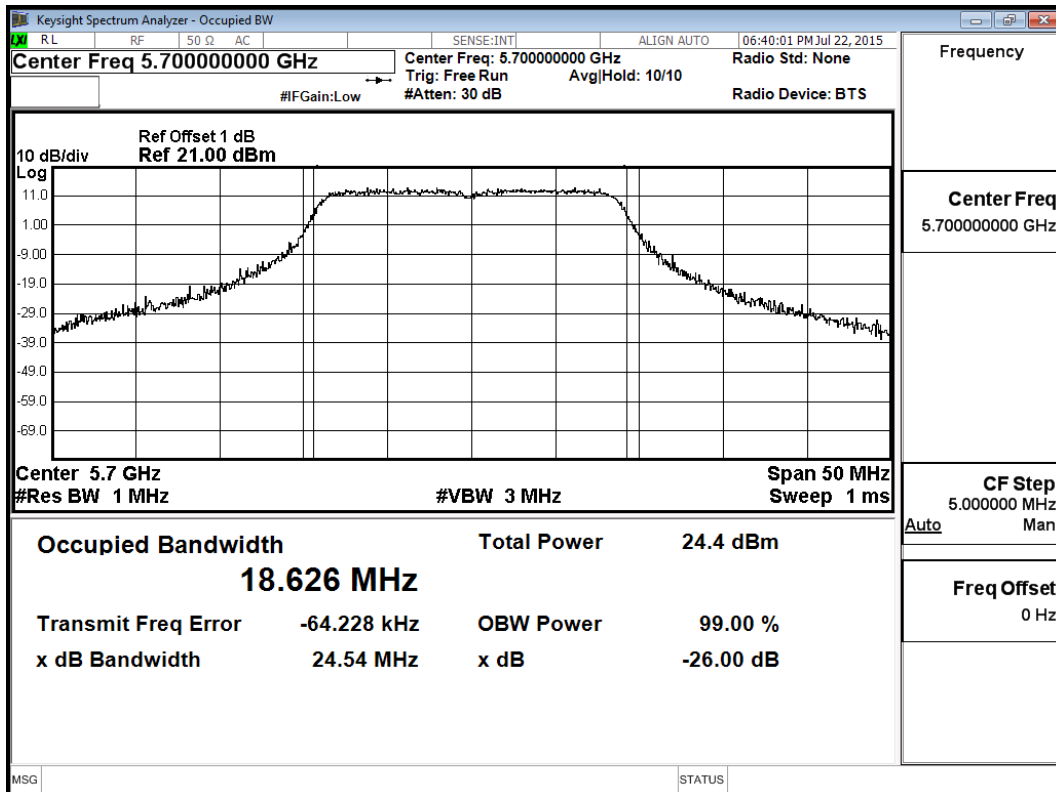
Channel 116: Chain B



Channel 140: Chain A



Channel 140: Chain B



Product : 802.11ac Dual Band Access Point
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps)

Chain A

| Cable loss=1dB | | Maximum conducted output power | | | | | | | |
|----------------|-----------------|--------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Channel No. | Frequency (MHz) | Data Rate (Mbps) | | | | | | | |
| | | 30 | 60 | 90 | 120 | 180 | 240 | 270 | 300 |
| | | Measurement Level (dBm) | | | | | | | |
| 54 | 5270 | 19.79 | -- | -- | -- | -- | -- | -- | -- |
| 62 | 5310 | 13.83 | 13.71 | 13.59 | 13.47 | 13.35 | 13.23 | 13.11 | 13.09 |
| 102 | 5510 | 15.36 | -- | -- | -- | -- | -- | -- | -- |
| 110 | 5550 | 20.31 | 20.18 | 20.05 | 19.92 | 19.79 | 19.66 | 19.53 | 19.48 |
| 134 | 5670 | 20.02 | -- | -- | -- | -- | -- | -- | -- |

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Chain B

| Cable loss=1dB | | Maximum conducted output power | | | | | | | |
|----------------|-----------------|--------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Channel No. | Frequency (MHz) | Data Rate (Mbps) | | | | | | | |
| | | 30 | 60 | 90 | 120 | 180 | 240 | 270 | 300 |
| | | Measurement Level (dBm) | | | | | | | |
| 54 | 5270 | 21.28 | -- | -- | -- | -- | -- | -- | -- |
| 62 | 5310 | 14.65 | 14.52 | 14.39 | 14.26 | 14.13 | 14 | 13.87 | 13.74 |
| 102 | 5510 | 15.64 | -- | -- | -- | -- | -- | -- | -- |
| 110 | 5550 | 21.08 | 20.92 | 20.76 | 20.6 | 20.44 | 20.28 | 20.12 | 19.92 |
| 134 | 5670 | 21.04 | -- | -- | -- | -- | -- | -- | -- |

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

(Chain A+ B) (High power):

| Channel Number | Frequency | 99% Bandwidth | Chain A Power | Chain B Power | Output Power | Output Power Limit | |
|----------------|-----------|---------------|---------------|---------------|--------------|--------------------|---------------|
| | | | | | | (dBm) | dBm+10log(BW) |
| | (MHz) | (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | |
| 54 | 5270 | 36.722 | 19.79 | 21.28 | 23.61 | 24 | 26.65 |
| 62 | 5310 | 36.637 | 13.83 | 14.65 | 17.27 | 24 | 26.64 |
| 102 | 5510 | 36.655 | 15.36 | 15.64 | 18.51 | 24 | 26.64 |
| 110 | 5550 | 36.756 | 20.31 | 21.08 | 23.72 | 24 | 26.65 |
| 134 | 5670 | 36.749 | 20.02 | 21.04 | 23.57 | 24 | 26.65 |

Note:

1. Power Output Value =Reading value on average power meter + cable loss
2. Output Power (dBm) = 10LOG (Chain A Power (mW) + Chain B Power (mW))
3. 99% Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

(Chain A+ B) (Low power):

| Channel Number | Frequency | Chain A Power | Chain B Power | Output Power | Antenna Gain | EIRP | EIRP Limit |
|----------------|-----------|---------------|---------------|--------------|--------------|-------|------------|
| | | | | | | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dBi) | (dBm) | (dBm) |
| 54 | 5270 | 12.88 | 14.33 | 16.68 | 5.0 | 21.68 | 24 |
| 62 | 5310 | 6.81 | 7.59 | 10.23 | 5.0 | 15.23 | 24 |
| 102 | 5510 | 8.23 | 8.56 | 11.41 | 5.0 | 16.41 | 24 |
| 110 | 5550 | 13.24 | 14.07 | 16.69 | 5.6 | 22.29 | 24 |
| 134 | 5670 | 12.87 | 13.94 | 16.45 | 5.6 | 22.05 | 24 |

Note:

1. Power Output Value =Reading value on average power meter + cable loss
2. Output Power (dBm) = 10LOG (Chain A Power (mW) + Chain B Power (mW))
3. The EUT employ a TPC mechanism, the device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm.

99% Occupied Bandwidth:

Figure Channel 54: (Chain A)

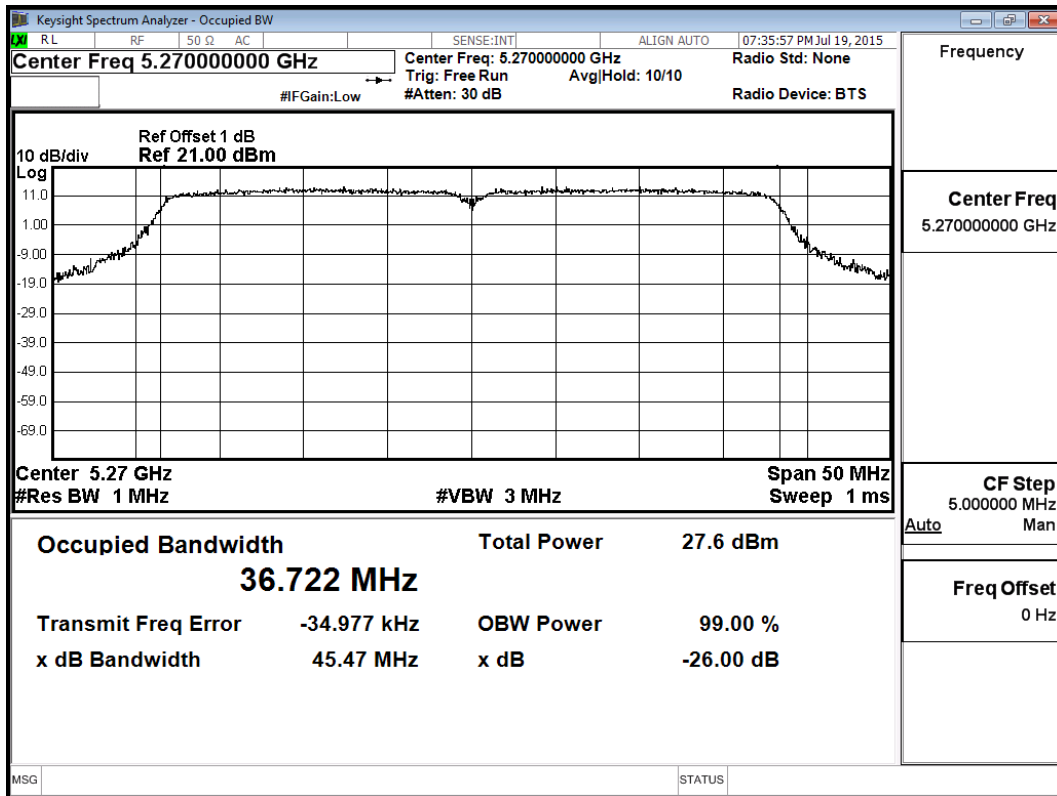


Figure Channel 54: (Chain B)

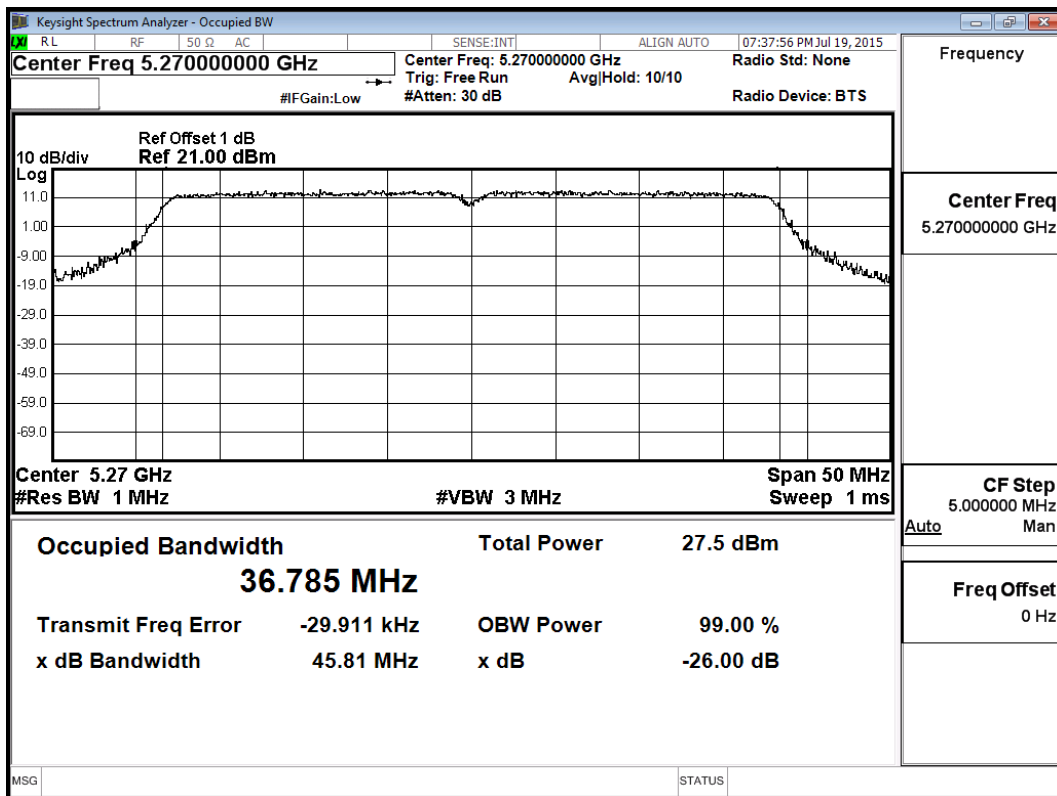


Figure Channel 62: (Chain A)

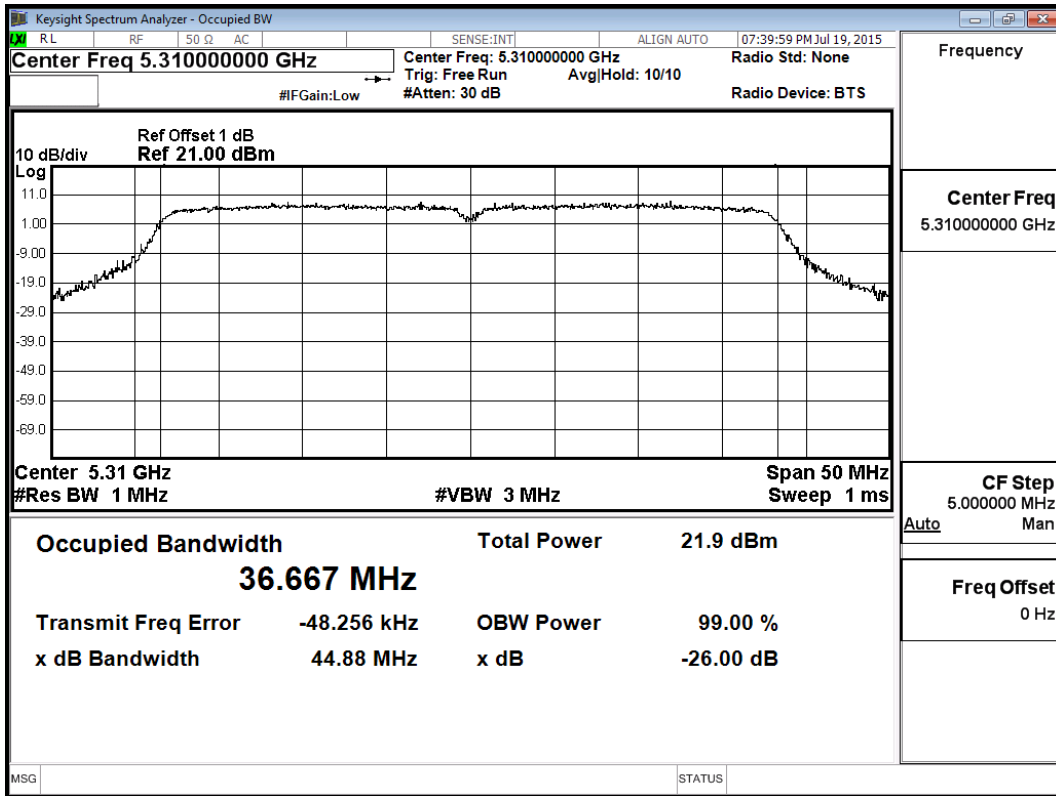


Figure Channel 62: (Chain B)

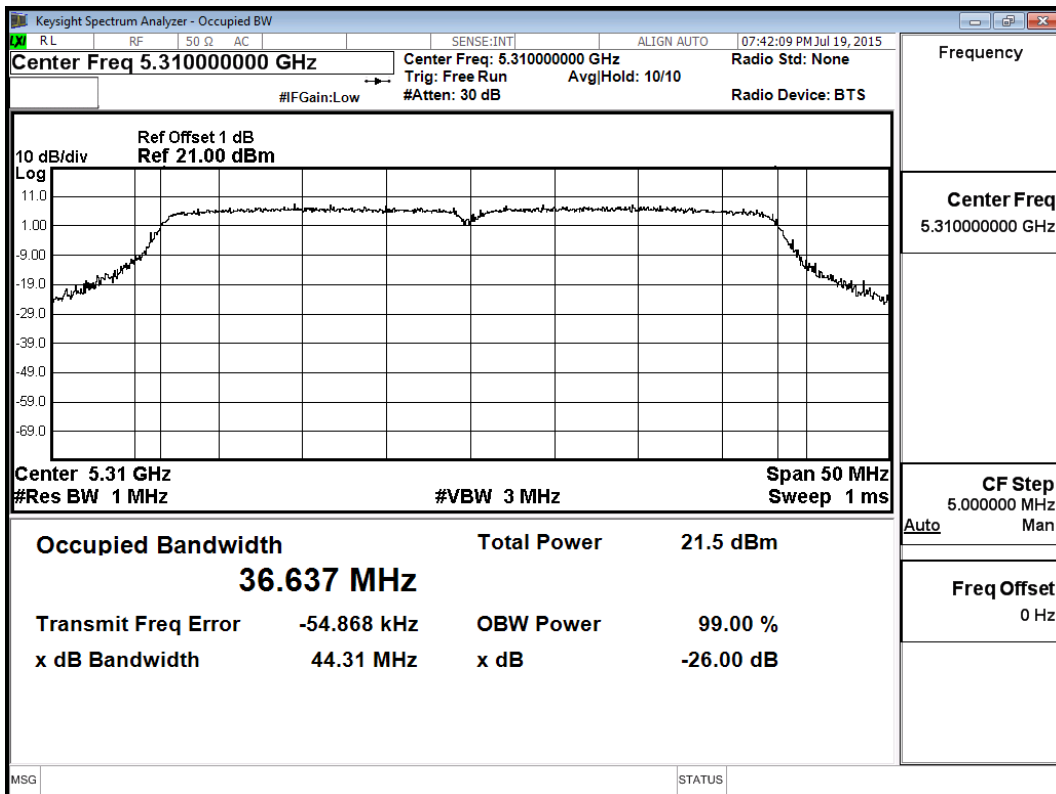


Figure Channel 102: (Chain A)

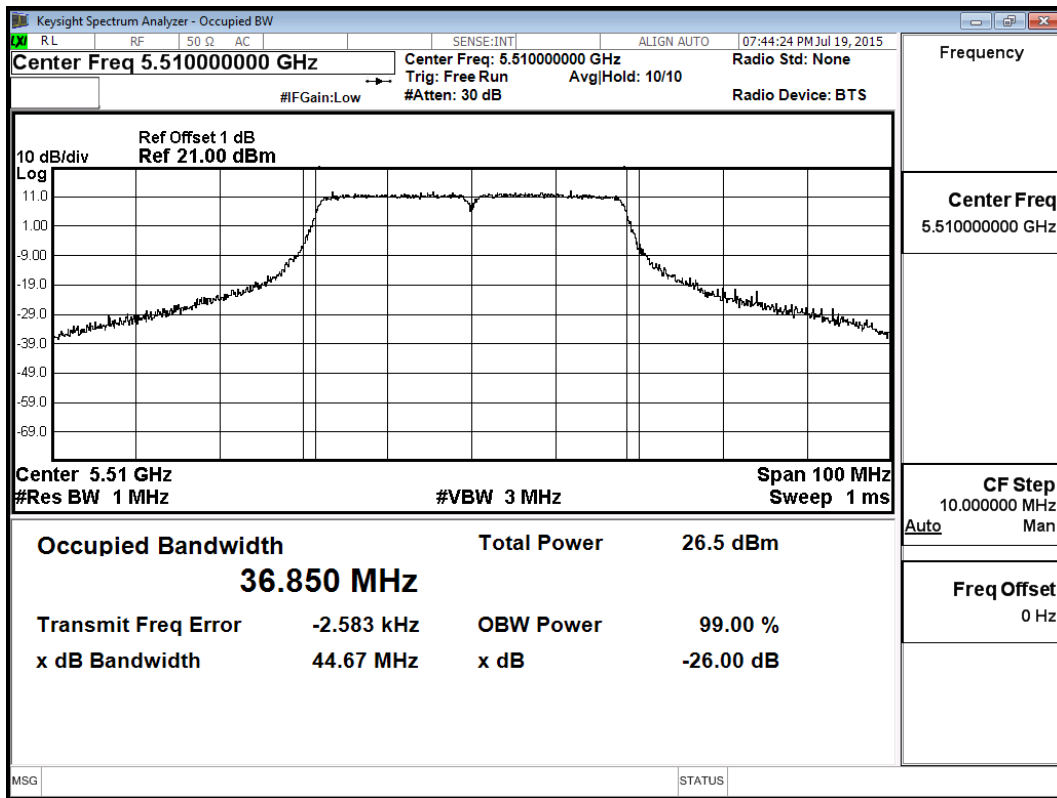


Figure Channel 102: (Chain B)

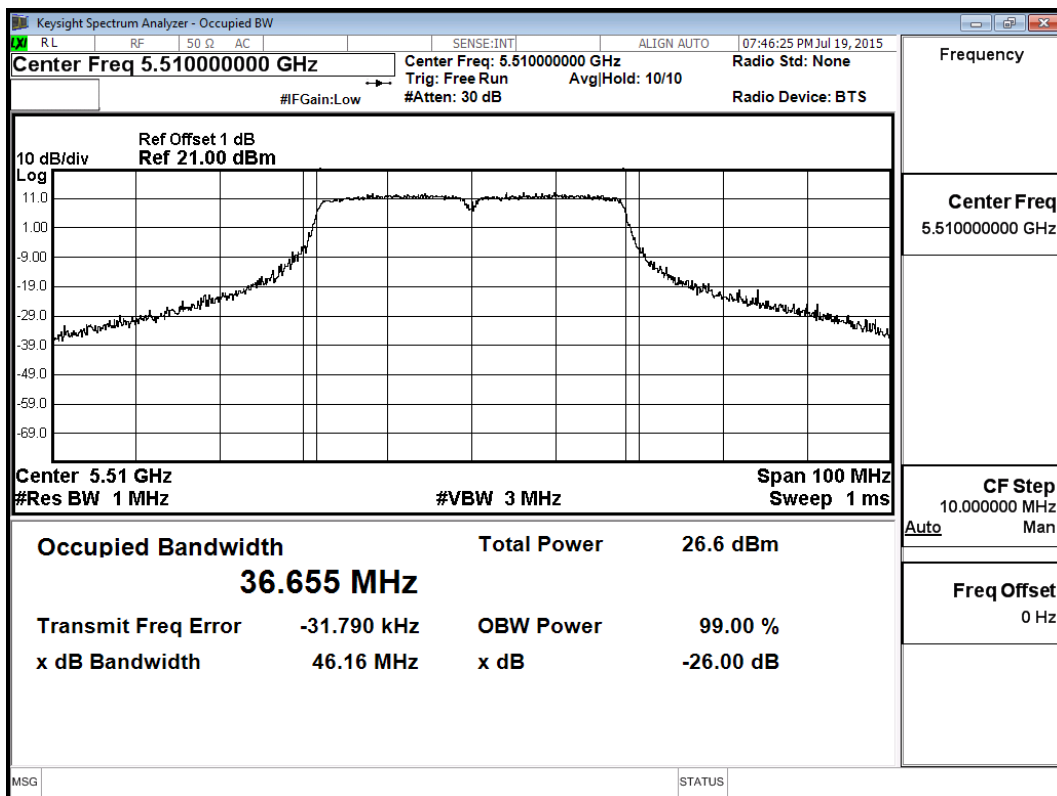


Figure Channel 110: (Chain A)

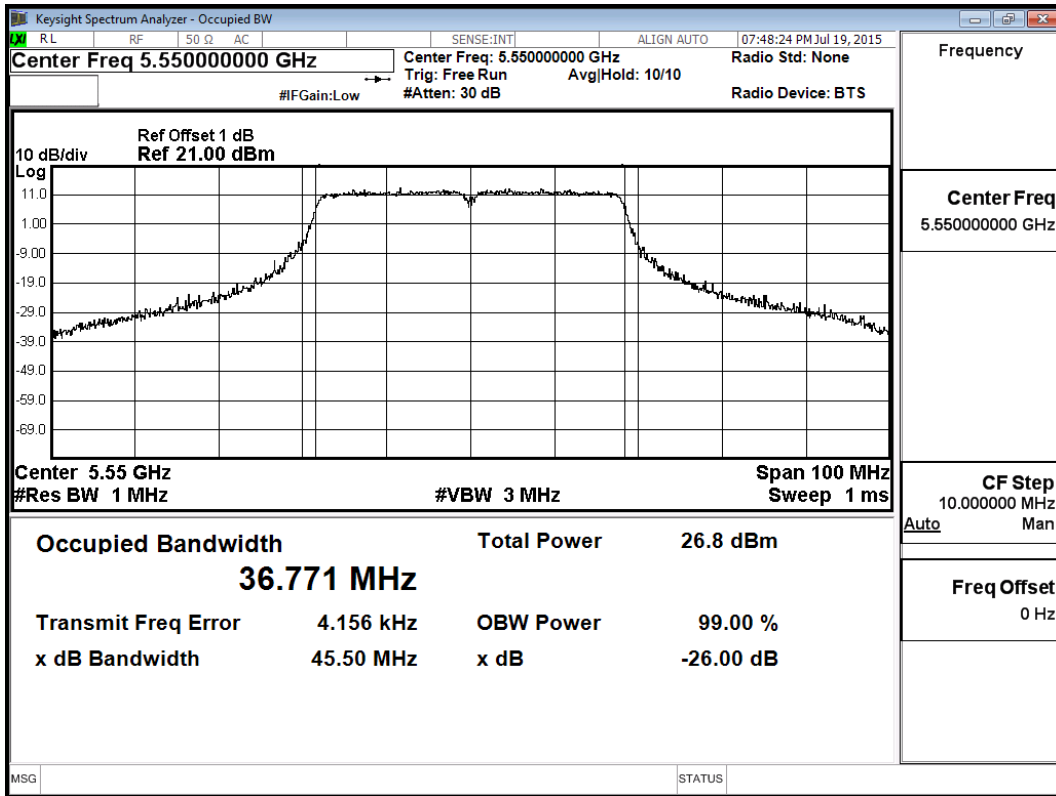


Figure Channel 110: (Chain B)

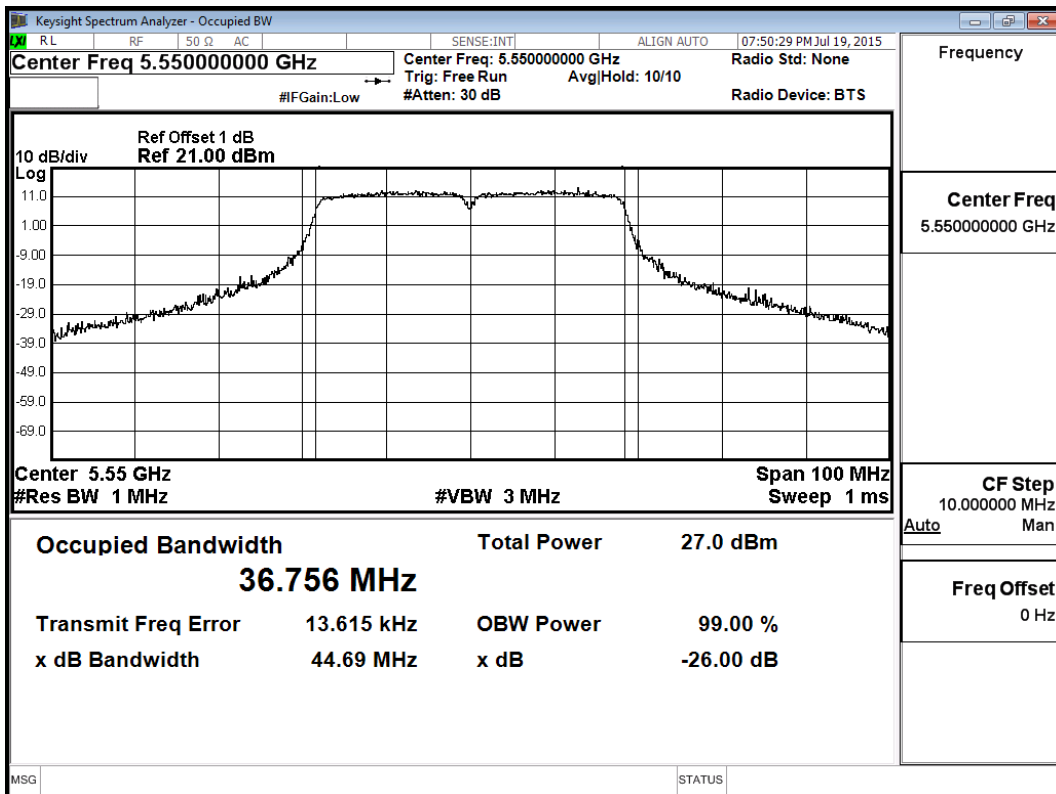


Figure Channel 134: (Chain A)

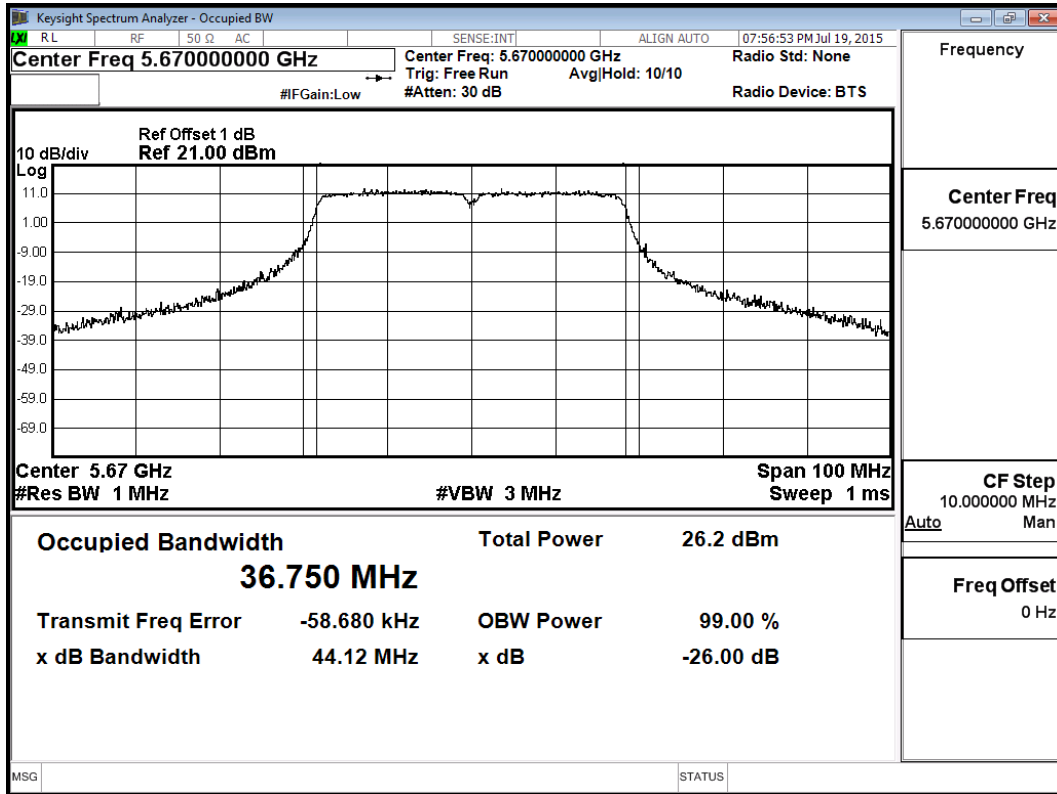
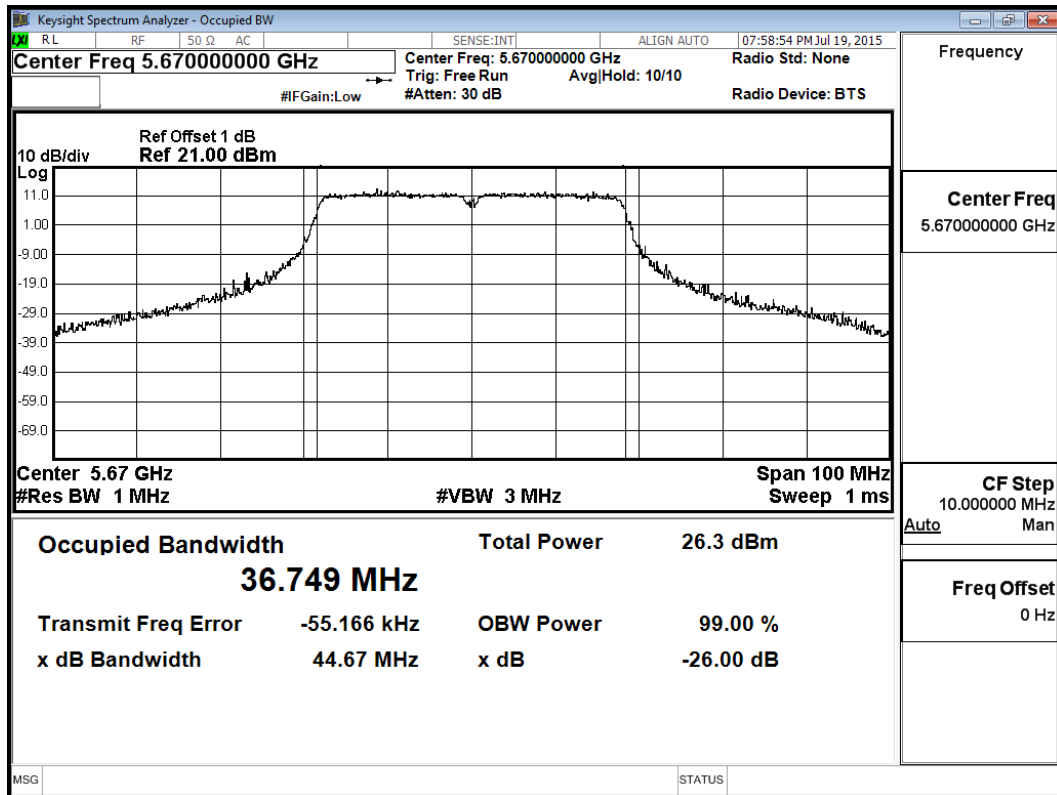


Figure Channel 134: (Chain B)



Product : 802.11ac Dual Band Access Point
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Mode : Mode 6 Transmit (802.11ac-80BW-65Mbps)

Chain A

| Cable loss=1dB | | Maximum conducted output power | | | | | | | | | |
|----------------|-----------------|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Channel No | Frequency (MHz) | Data Rate (Mbps) | | | | | | | | | |
| | | VTH0 | VTH1 | VTH2 | VTH3 | VTH4 | VTH5 | VTH6 | VTH7 | VTH8 | VTH9 |
| 58 | 5290 | 15.16 | 15.07 | 14.98 | 14.89 | 14.8 | 14.71 | 14.62 | 14.53 | 14.44 | 14.35 |
| 106 | 5530 | 14.02 | 13.94 | 13.86 | 13.78 | 13.7 | 13.62 | 13.54 | 13.46 | 13.38 | 13.21 |
| 122 | 5610 | 19.57 | 19.46 | 19.35 | 19.27 | 19.13 | 19.04 | 18.91 | 18.8 | 18.69 | 18.52 |

Note: 1.Maximum conducted output power Value =Reading value on average power meter + cable loss

Chain B

| Cable loss=1dB | | Maximum conducted output power | | | | | | | | | |
|----------------|-----------------|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Channel No | Frequency (MHz) | Data Rate (Mbps) | | | | | | | | | |
| | | VTH0 | VTH1 | VTH2 | VTH3 | VTH4 | VTH5 | VTH6 | VTH7 | VTH8 | VTH9 |
| 58 | 5290 | 14.38 | 14.27 | 14.16 | 14.05 | 13.94 | 13.83 | 13.72 | 13.61 | 13.5 | 13.39 |
| 106 | 5530 | 14.54 | 14.42 | 14.3 | 14.18 | 14.06 | 13.94 | 13.82 | 13.7 | 13.58 | 13.46 |
| 122 | 5610 | 19.47 | 19.41 | 19.35 | 19.29 | 19.23 | 19.17 | 19.11 | 19.05 | 18.97 | 18.91 |

Note: 1.Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

(Chain A+ B) (High power):

| Channel Number | Frequency | 99% Bandwidth | Chain A Power | Chain B Power | Output Power | Output Power Limit | |
|----------------|-----------|---------------|---------------|---------------|--------------|--------------------|---------------|
| | | | | | | (dBm) | dBm+10log(BW) |
| | (MHz) | (MHz) | (dBm) | (dBm) | (dBm) | (dBm) | |
| 58 | 5290 | 75.632 | 15.16 | 14.38 | 17.80 | 24 | 29.79 |
| 106 | 5530 | 75.912 | 14.02 | 14.54 | 17.30 | 24 | 29.80 |
| 122 | 5610 | 75.778 | 19.57 | 19.47 | 22.53 | 24 | 29.80 |

Note:

1. Power Output Value =Reading value on average power meter + cable loss
2. Output Power (dBm) = 10LOG (Chain A Power (mW) + Chain B Power (mW))
3. 99% Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

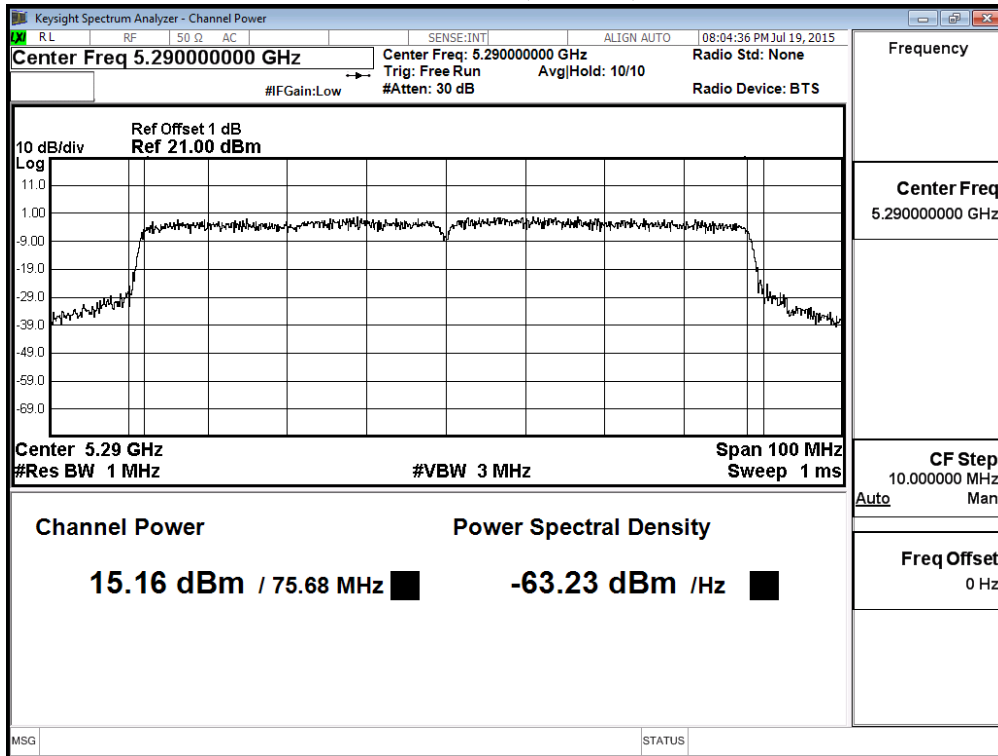
(Chain A+ B) (Low power):

| Channel Number | Frequency | Chain A Power | Chain B Power | Output Power | Antenna Gain | EIRP | EIRP Limit |
|----------------|-----------|---------------|---------------|--------------|--------------|-------|------------|
| | | | | | | | |
| | (MHz) | (dBm) | (dBm) | (dBm) | (dBi) | (dBm) | (dBm) |
| 58 | 5290 | 8.08 | 8.11 | 11.11 | 5.0 | 16.11 | 24 |
| 106 | 5530 | 6.95 | 7.30 | 10.14 | 5.0 | 15.14 | 24 |
| 122 | 5610 | 12.36 | 12.35 | 15.37 | 5.0 | 20.37 | 24 |

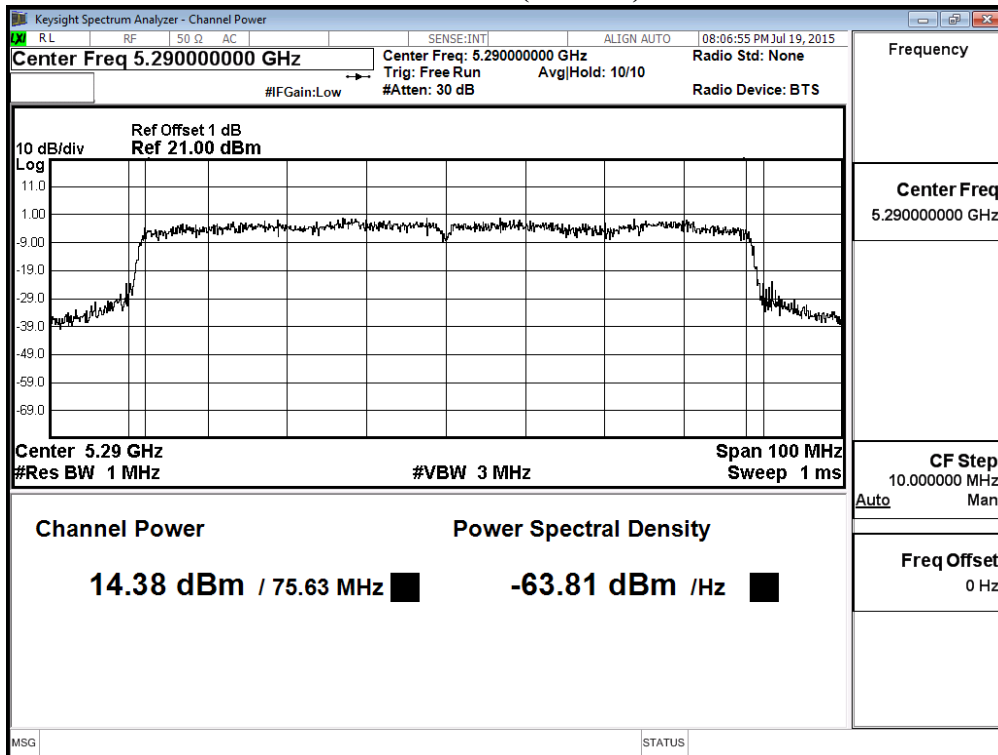
Note:

1. Power Output Value =Reading value on average power meter + cable loss
2. Output Power (dBm) = 10LOG (Chain A Power (mW) + Chain B Power (mW))
3. The EUT employ a TPC mechanism, the device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm.

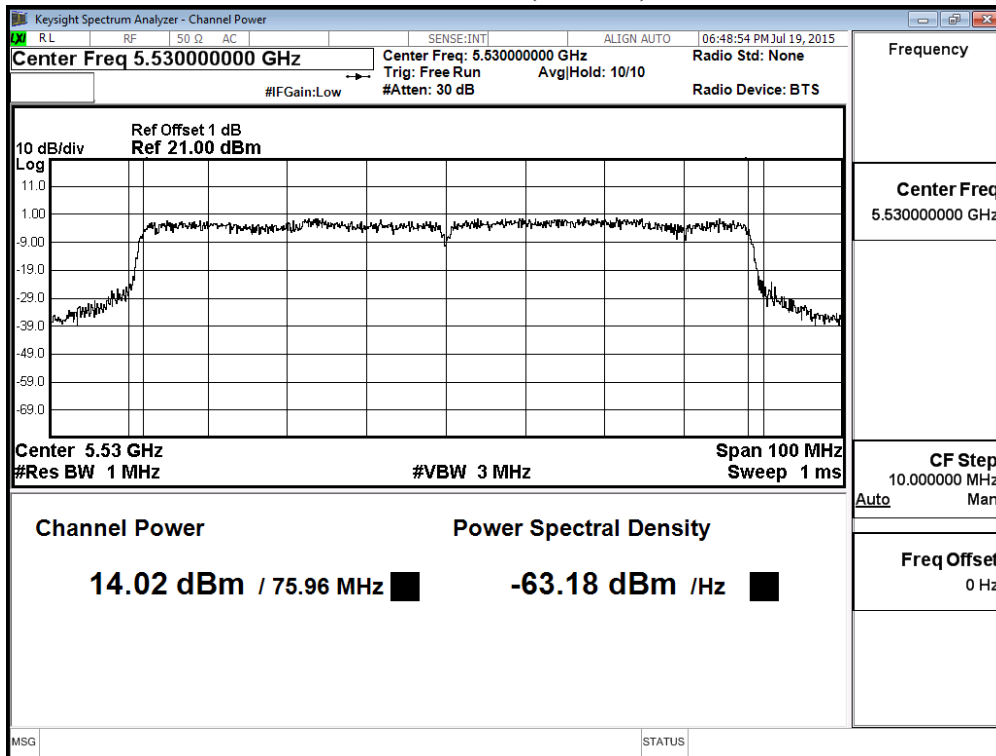
**Maximum conducted output power:
Channel 58 (Chain A)**



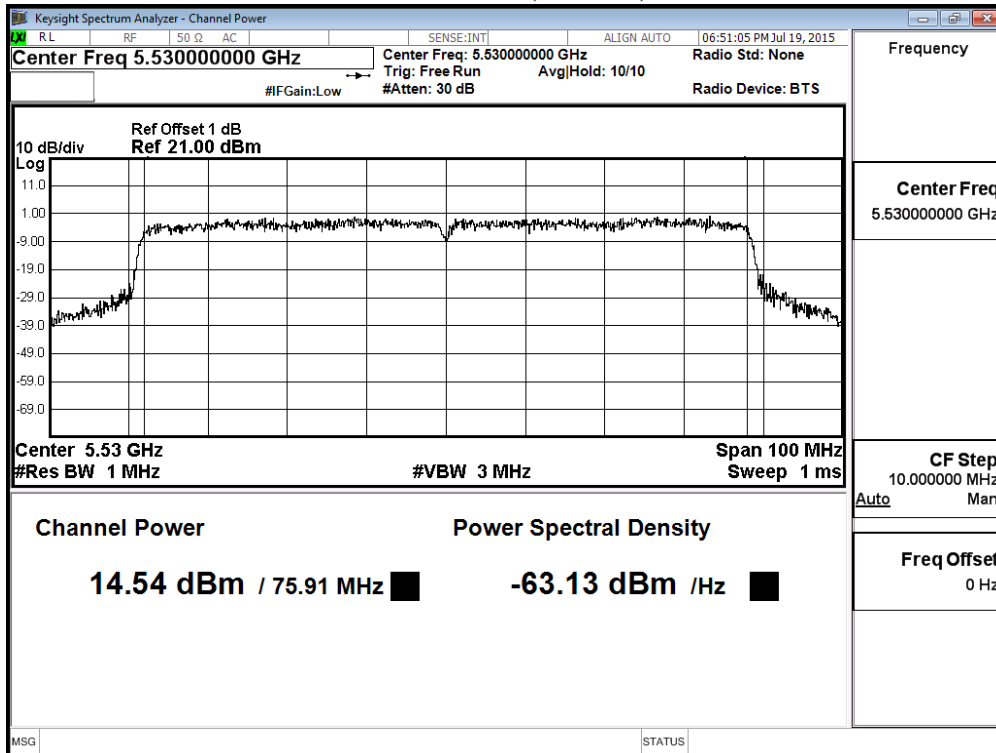
Channel 58 (Chain B)



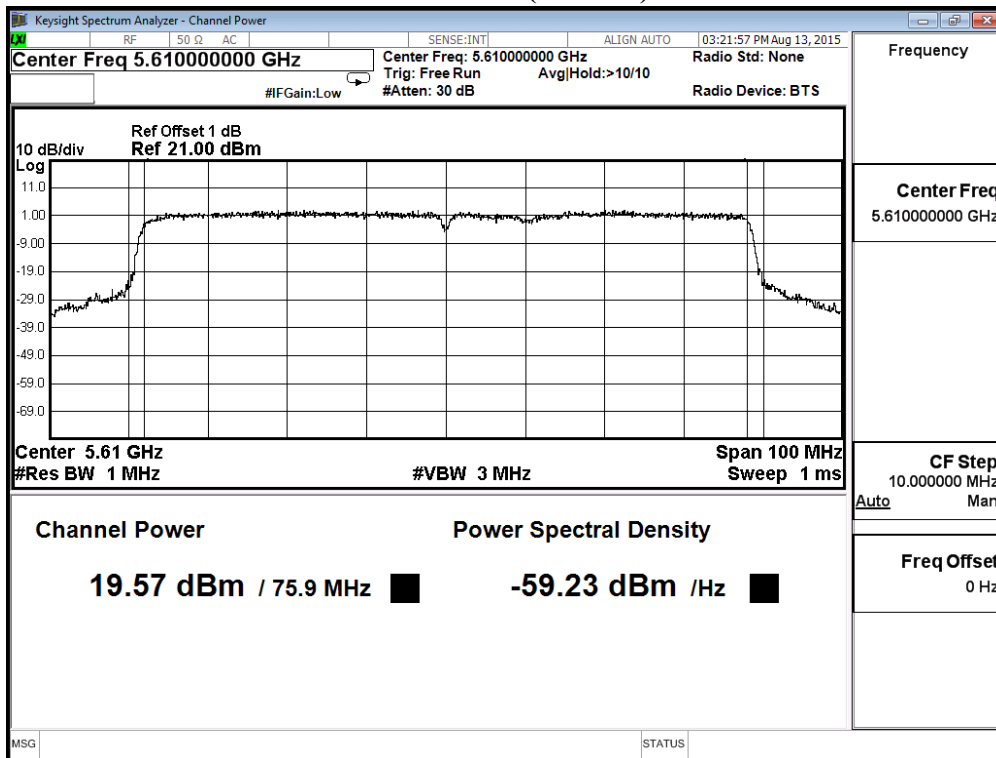
Channel 106 (Chain A)



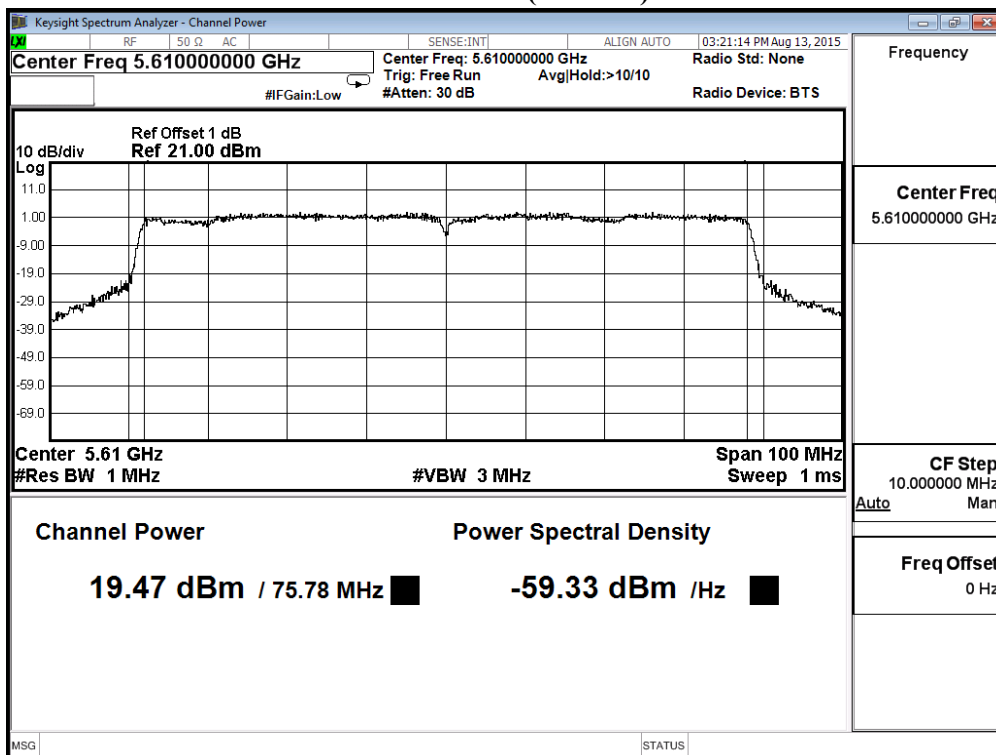
Channel 106 (Chain B)



Channel 122 (Chain A)



Channel 122 (Chain B)



4. Peak Power Spectral Density

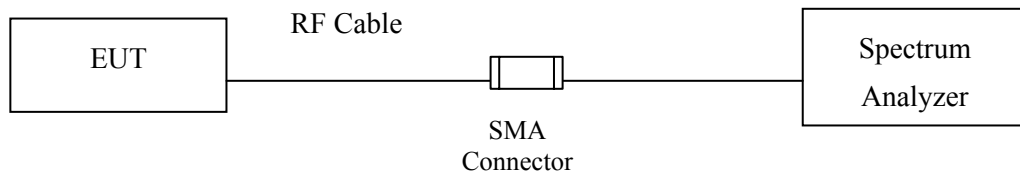
4.1. Test Equipment

| | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|---|-------------------|--------------|----------------------|------------|
| | Spectrum Analyzer | R&S | FSP40 / 100170 | Jun., 2015 |
| | Spectrum Analyzer | Agilent | E4407B / US39440758 | Jun., 2015 |
| X | Spectrum Analyzer | Agilent | N9010A / MY48030495 | Apr., 2015 |

Note:

1. All equipment is calibrated once a year or as required by manufacturer.
2. All equipment is calibrated to traceable calibration procedures.
3. The test instruments marked with "X" are used to measure the final test results.

4.2. Test Setup



4.3. Limits

- (1) For the band 5.15-5.25 GHz,
 - (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
 - (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
 - (iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated

transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations. (iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.+

- (2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (3) For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point UNII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

4.4. Test Procedure

The EUT was setup to ANSI C63.10, 2013; tested to UNII test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

The Peak Power Spectral Density using KDB 789033 section F) procedure, Create an average power spectrum for the EUT operating mode being tested by following the instructions in section E)2) for measuring maximum conducted output power using a spectrum analyzer.

SA-1 method is selected to run the test.

For the band 5.725-5.85 GHz, Scale the observed power level to an equivalent value in 500 kHz by adjusting (increase) the measured power by a bandwidth Correctionion factor (BWCF) where $BWCF = 10\log(500\text{ kHz}/100\text{ kHz}) = 6.98\text{ dB}$.

4.5. Uncertainty

± 1.27 dB

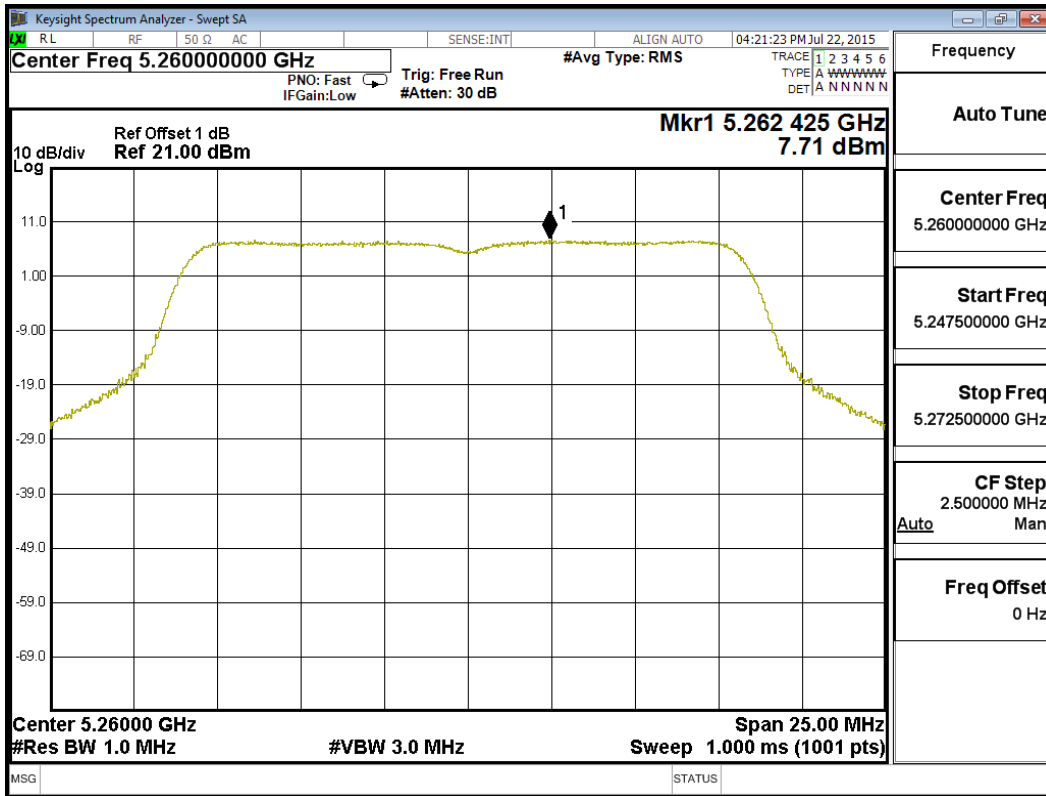
4.6. Test Result of Peak Power Spectral Density

Product : 802.11ac Dual Band Access Point
 Test Item : Peak Power Spectral Density
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps)

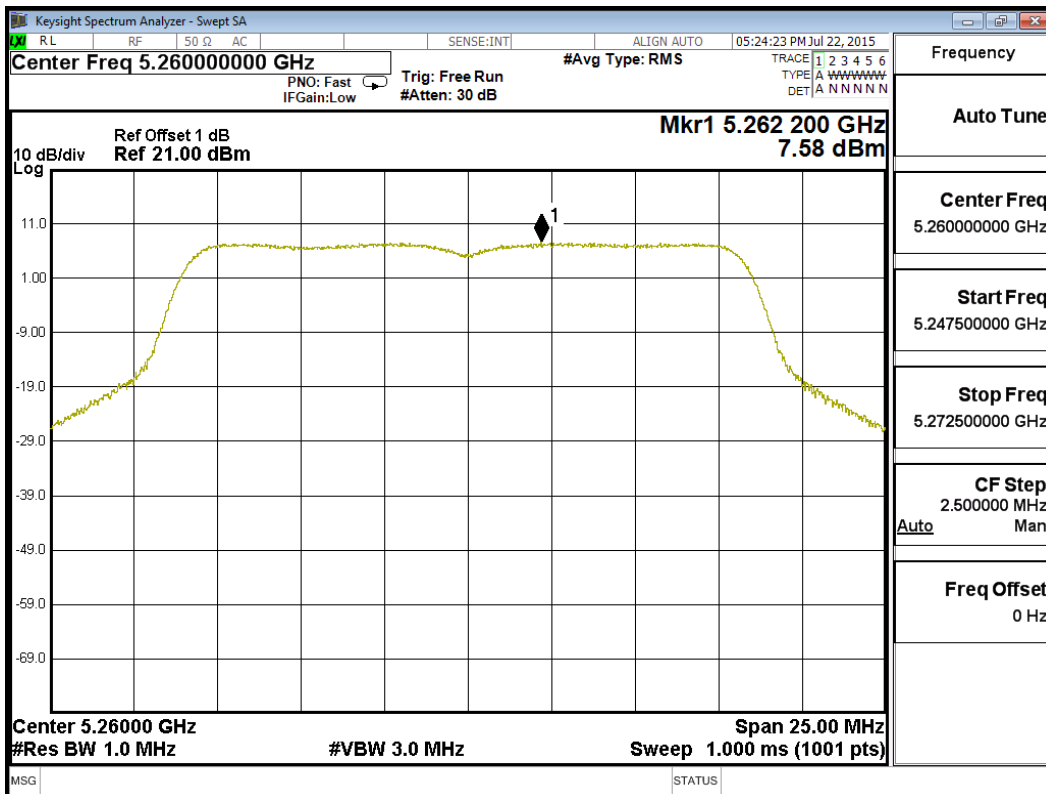
| Channel Number | Frequency (MHz) | Chain | PPSD/MHz (dBm) | Total PPSD/MHz (dBm) ₁ | Required Limit (dBm) | Result |
|----------------|-----------------|-------|----------------|-----------------------------------|----------------------|--------|
| 52 | 5260 | A | 7.710 | 10.720 | <11 | Pass |
| | | B | 7.580 | 10.590 | <11 | Pass |
| 60 | 5300 | A | 7.790 | 10.800 | <11 | Pass |
| | | B | 7.520 | 10.530 | <11 | Pass |
| 64 | 5320 | A | 7.960 | 10.970 | <11 | Pass |
| | | B | 7.890 | 10.900 | <11 | Pass |
| 100 | 5500 | A | 7.810 | 10.820 | <11 | Pass |
| | | B | 7.640 | 10.650 | <11 | Pass |
| 116 | 5580 | A | 7.710 | 10.720 | <11 | Pass |
| | | B | 7.700 | 10.710 | <11 | Pass |
| 140 | 5700 | A | 7.850 | 10.860 | <11 | Pass |
| | | B | 7.890 | 10.900 | <11 | Pass |

Note 1: The quantity $10 \cdot \log 2$ (two antennas) is added to the spectrum peak value according to document 662911 D01.

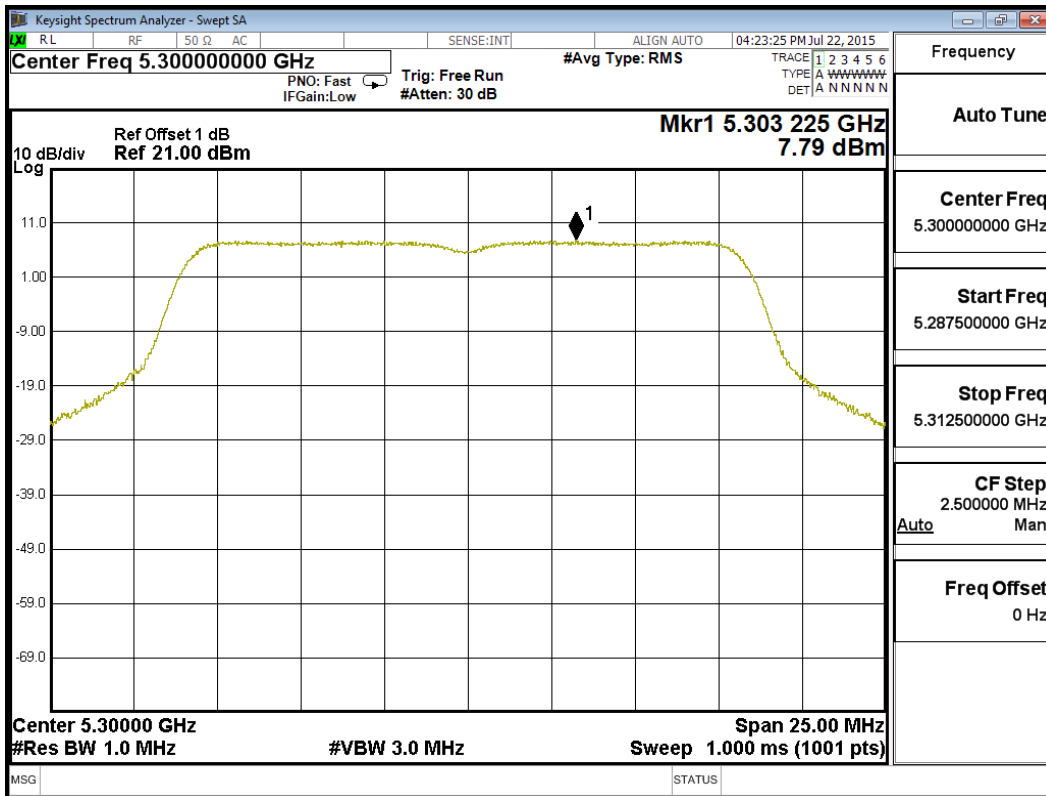
Channel 52: Chain A



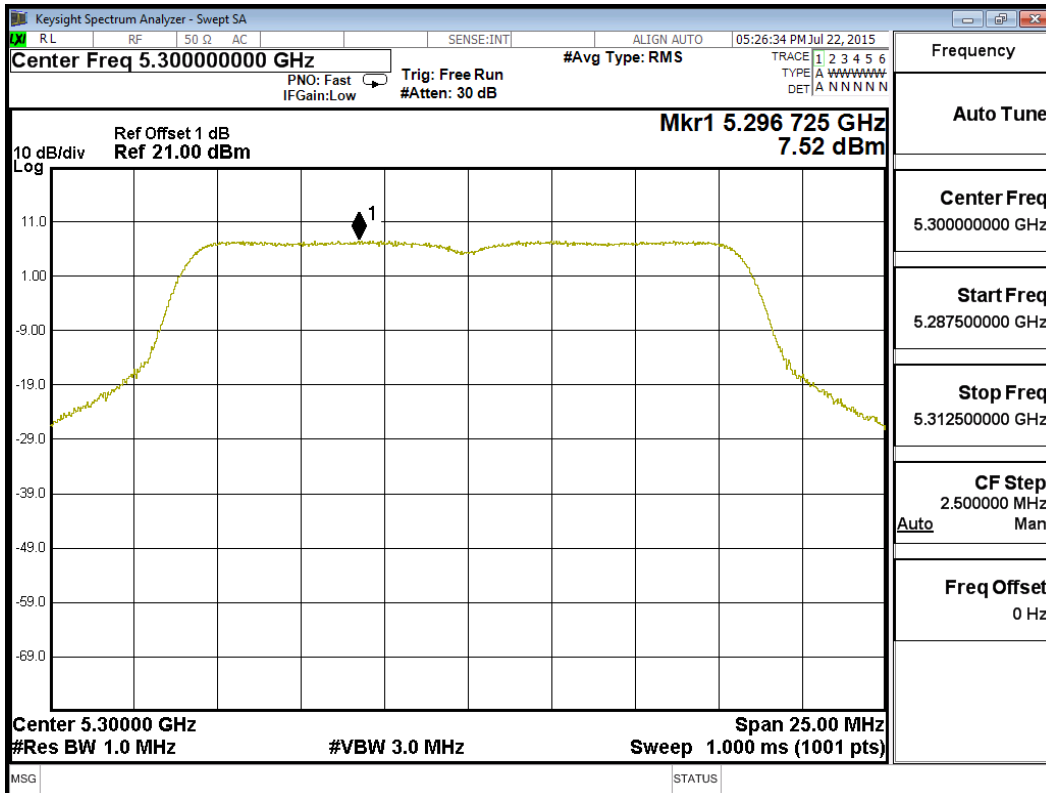
Channel 52: Chain B



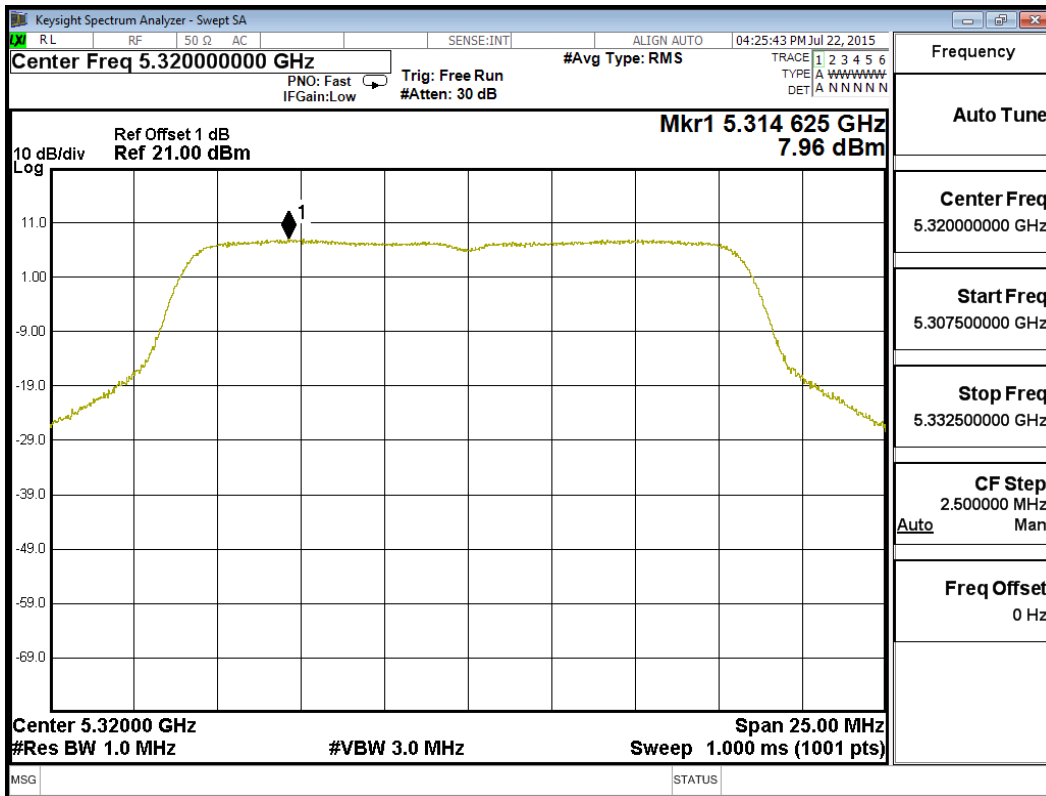
Channel 60: Chain A



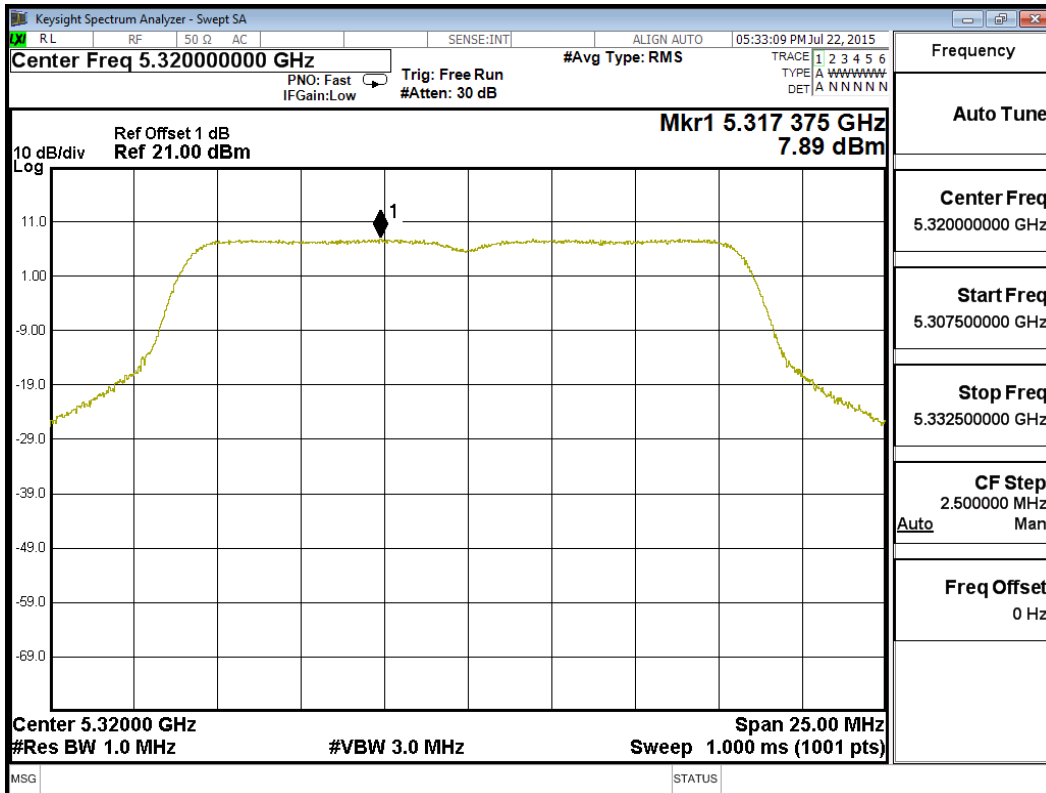
Channel 60: Chain B



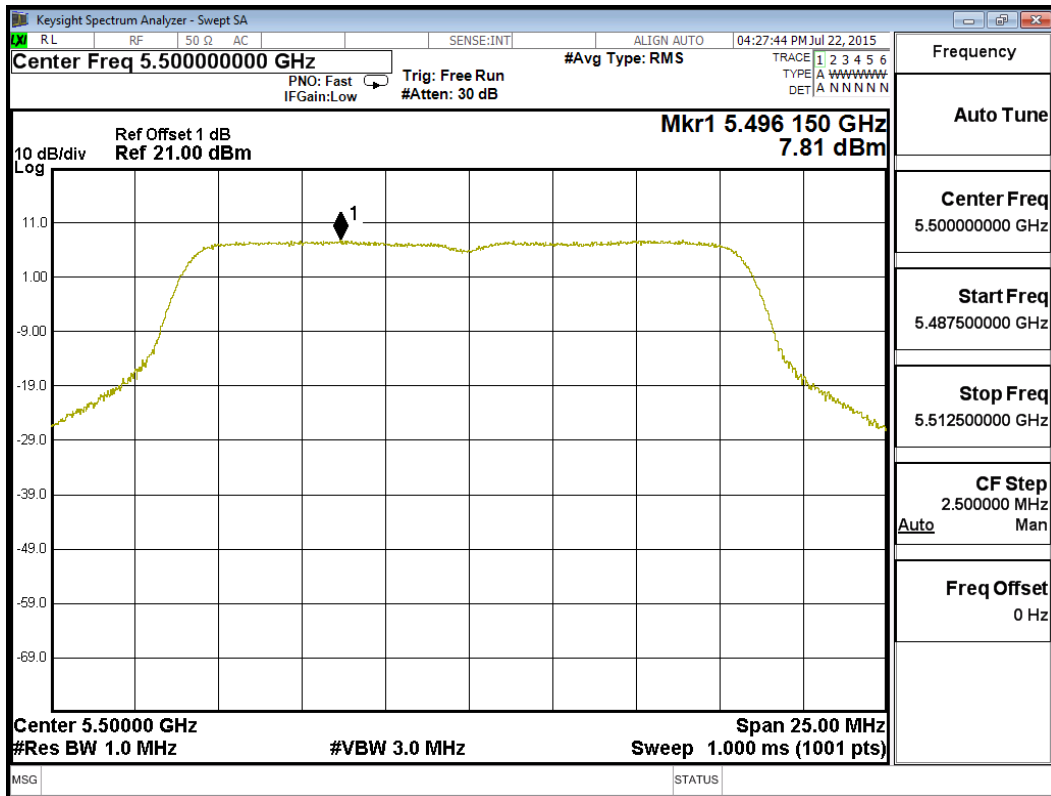
Channel 64: Chain A



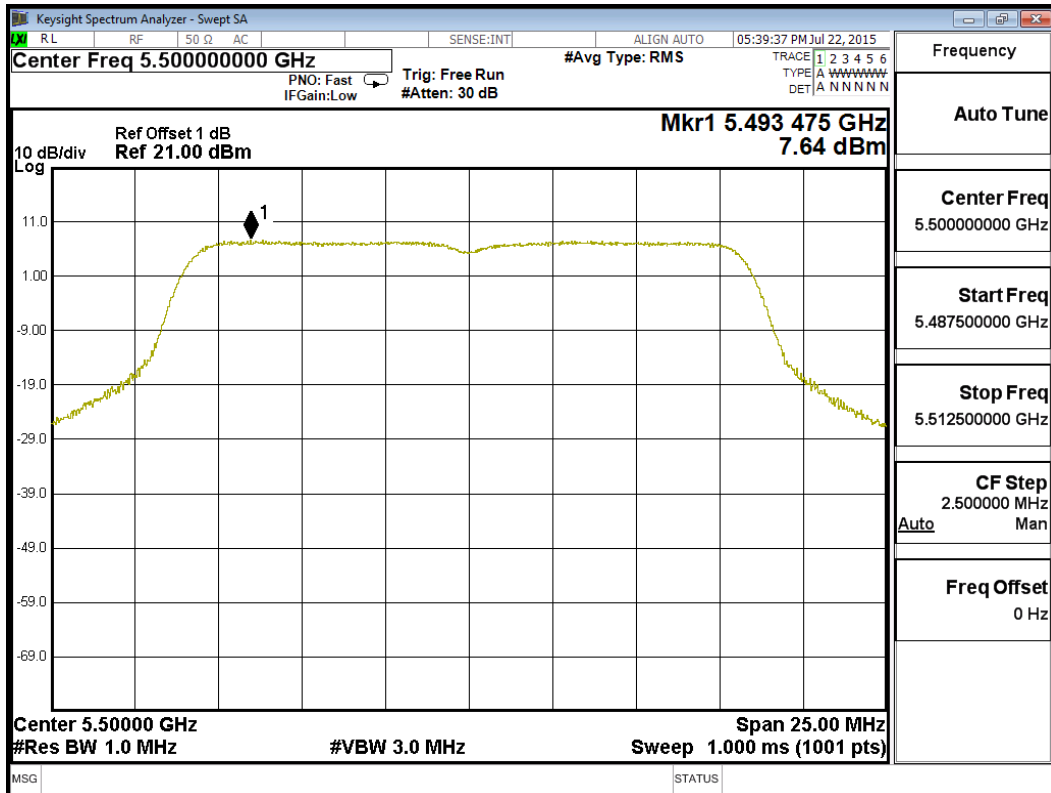
Channel 64: Chain B



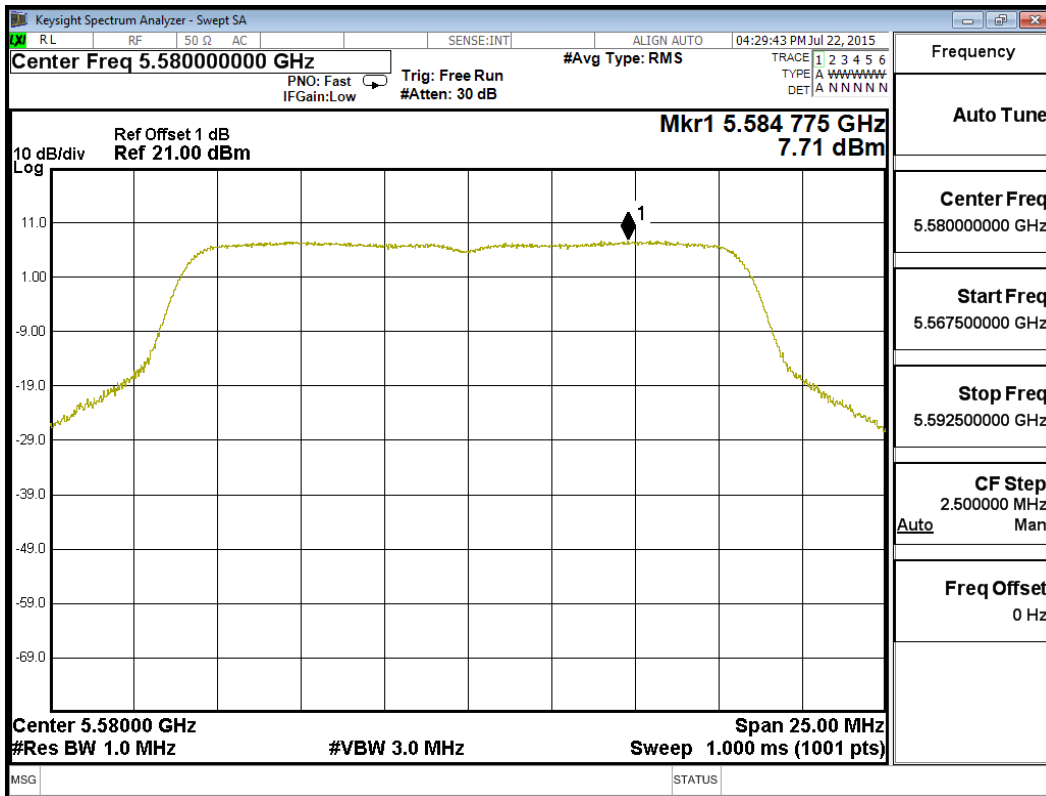
Channel 100: Chain A



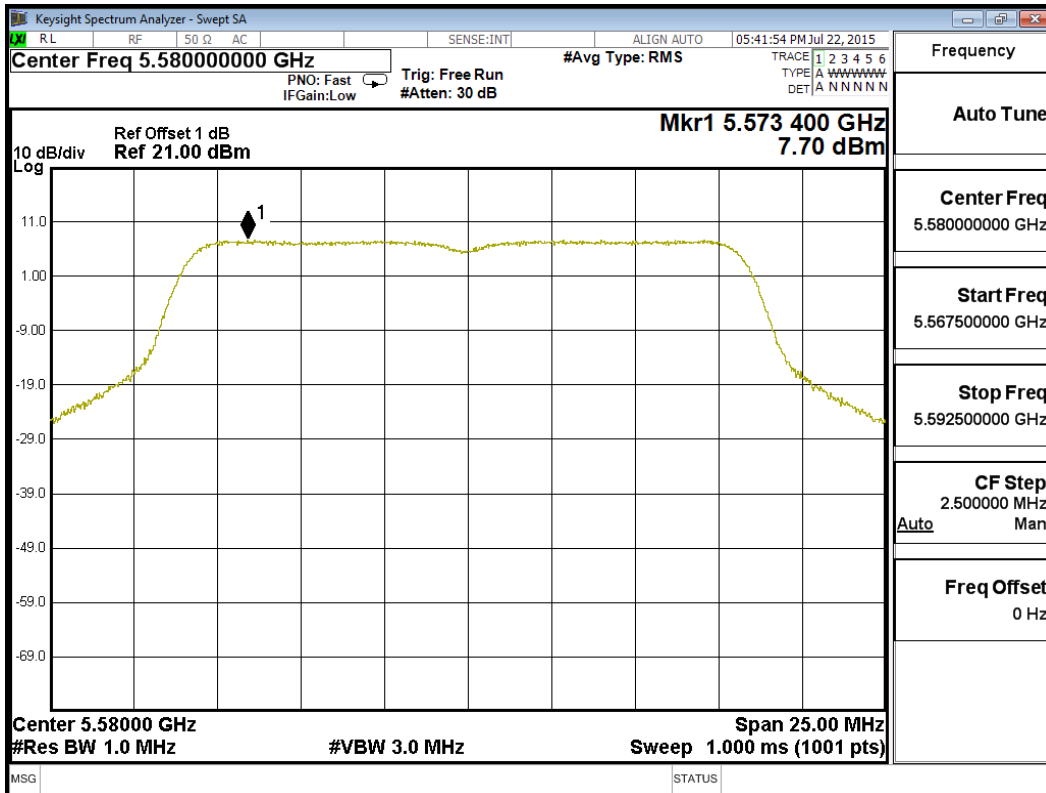
Channel 100: Chain B



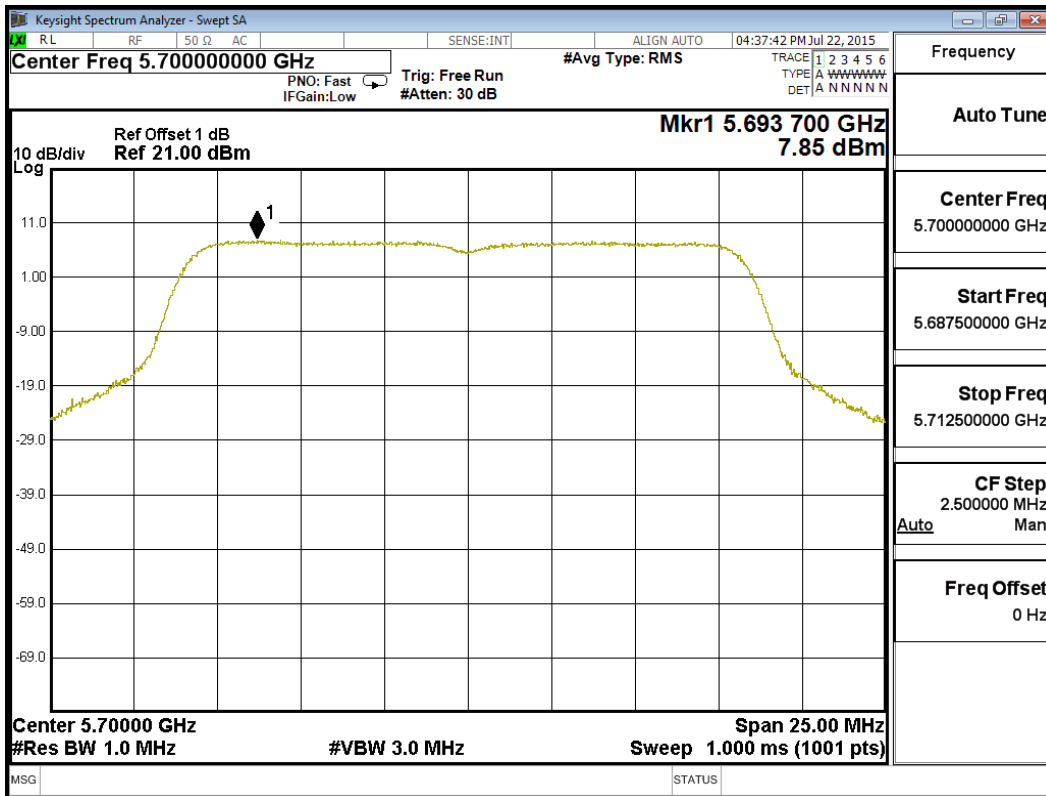
Channel 116: Chain A



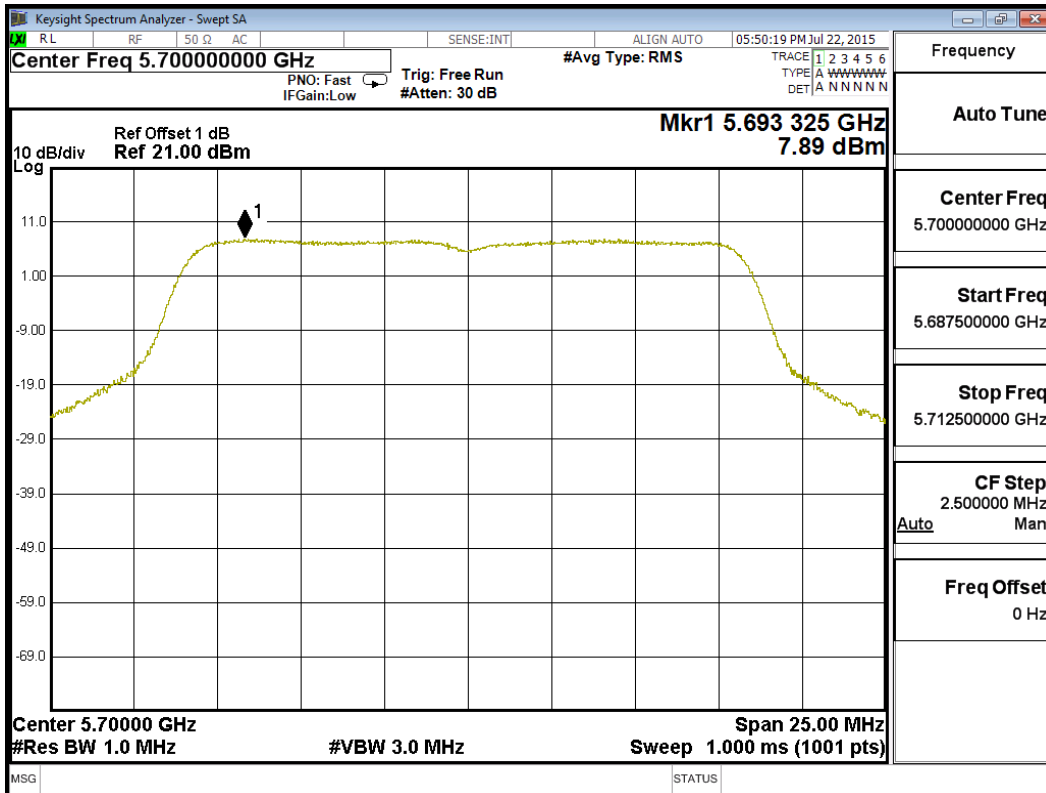
Channel 116:: Chain B



Channel 140: Chain A



Channel 140: Chain B

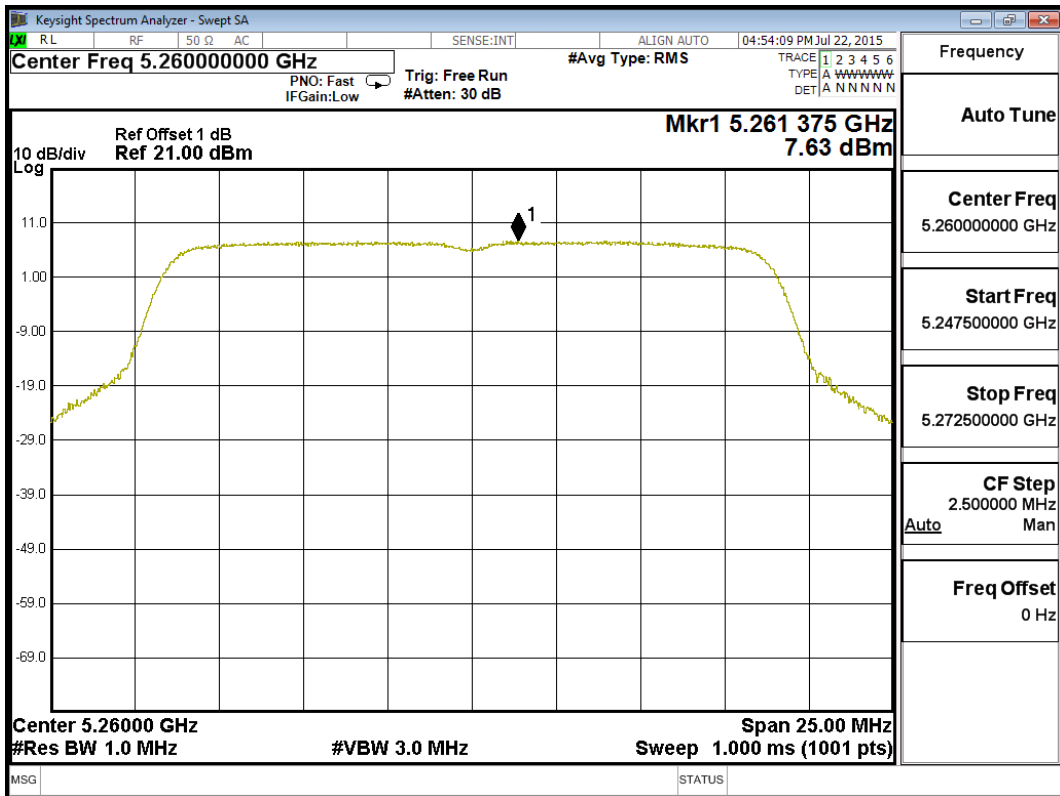


Product : 802.11ac Dual Band Access Point
 Test Item : Peak Power Spectral Density
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW 14.4Mbps)

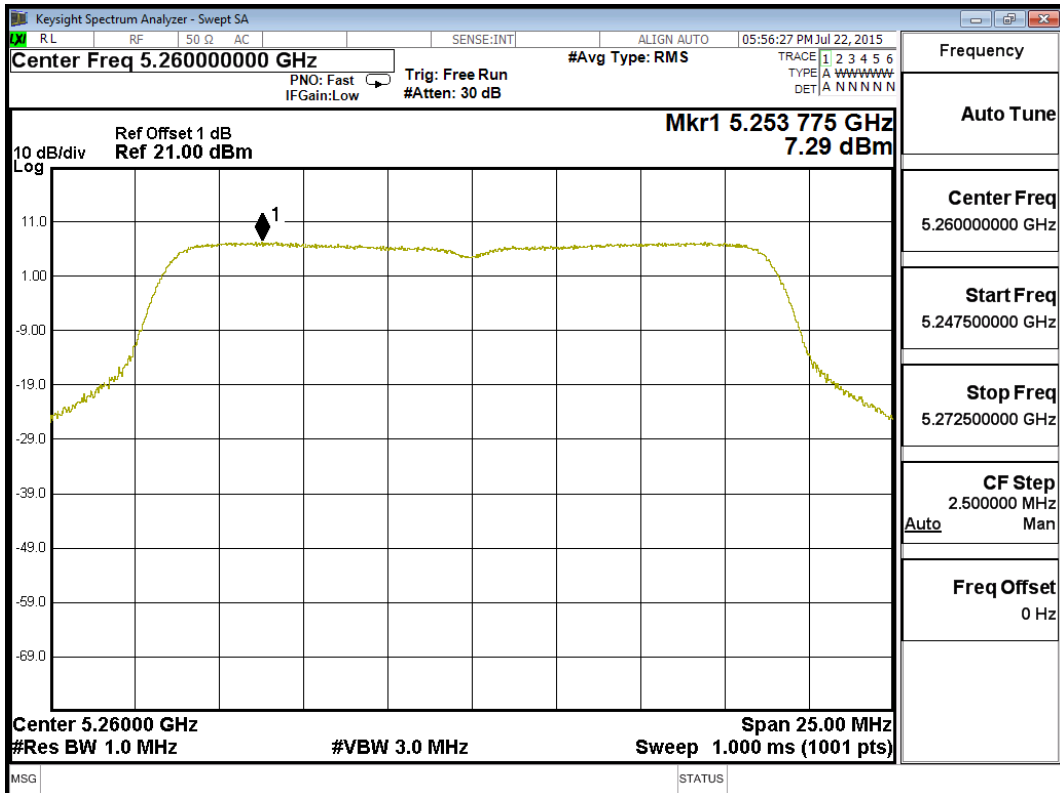
| Channel Number | Frequency (MHz) | Chain | PPSD/MHz (dBm) | Total PPSD/MHz (dBm) ₁ | Required Limit (dBm) | Result |
|----------------|-----------------|-------|----------------|-----------------------------------|----------------------|--------|
| 52 | 5260 | A | 7.630 | 10.640 | <11 | Pass |
| | | B | 7.290 | 10.300 | <11 | Pass |
| 60 | 5300 | A | 7.550 | 10.560 | <11 | Pass |
| | | B | 7.090 | 10.100 | <11 | Pass |
| 64 | 5320 | A | 7.750 | 10.760 | <11 | Pass |
| | | B | 7.560 | 10.570 | <11 | Pass |
| 100 | 5500 | A | 7.330 | 10.340 | <11 | Pass |
| | | B | 7.080 | 10.090 | <11 | Pass |
| 116 | 5580 | A | 7.260 | 10.270 | <11 | Pass |
| | | B | 7.020 | 10.030 | <11 | Pass |
| 140 | 5700 | A | 7.650 | 10.660 | <11 | Pass |
| | | B | 7.700 | 10.710 | <11 | Pass |

Note 1: The quantity $10 \cdot \log 2$ (two antennas) is added to the spectrum peak value according to document 662911 D01.

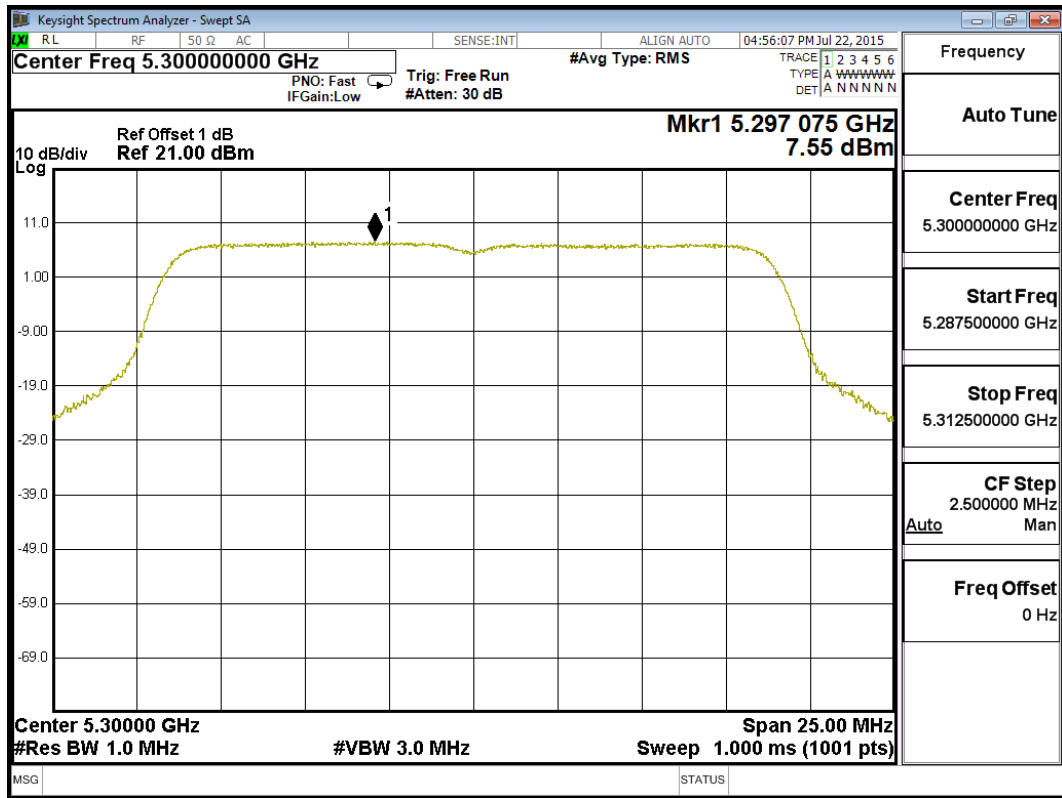
Channel 52: Chain A



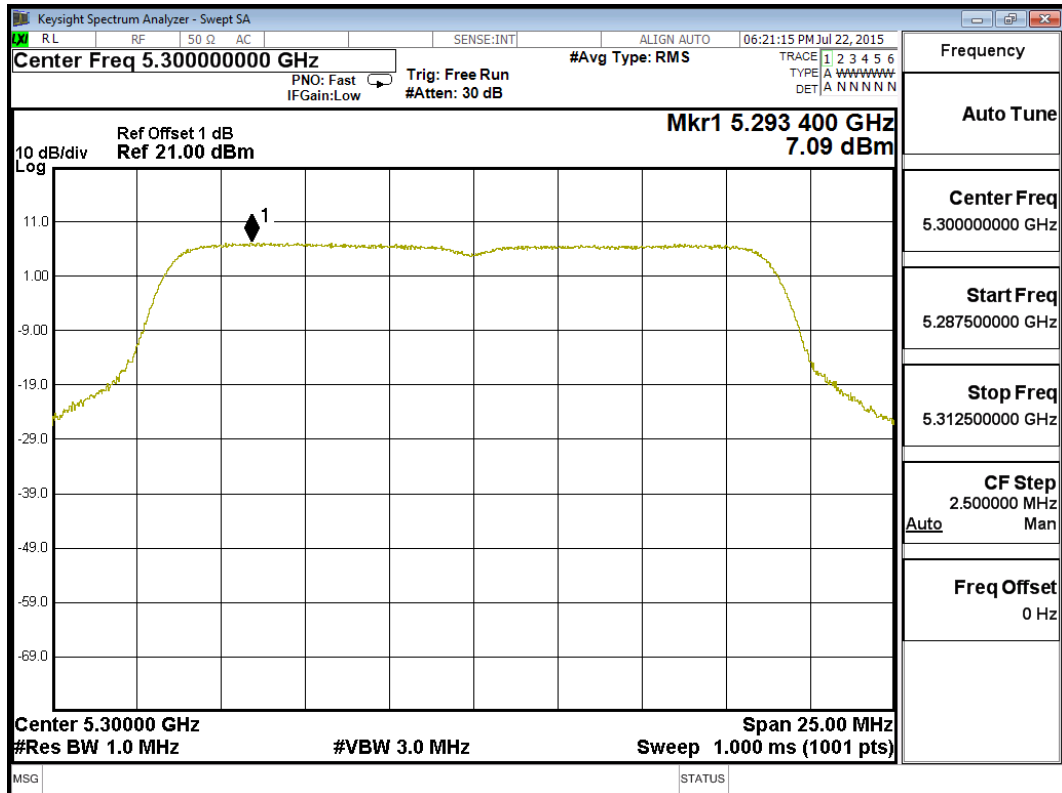
Channel 52: Chain B



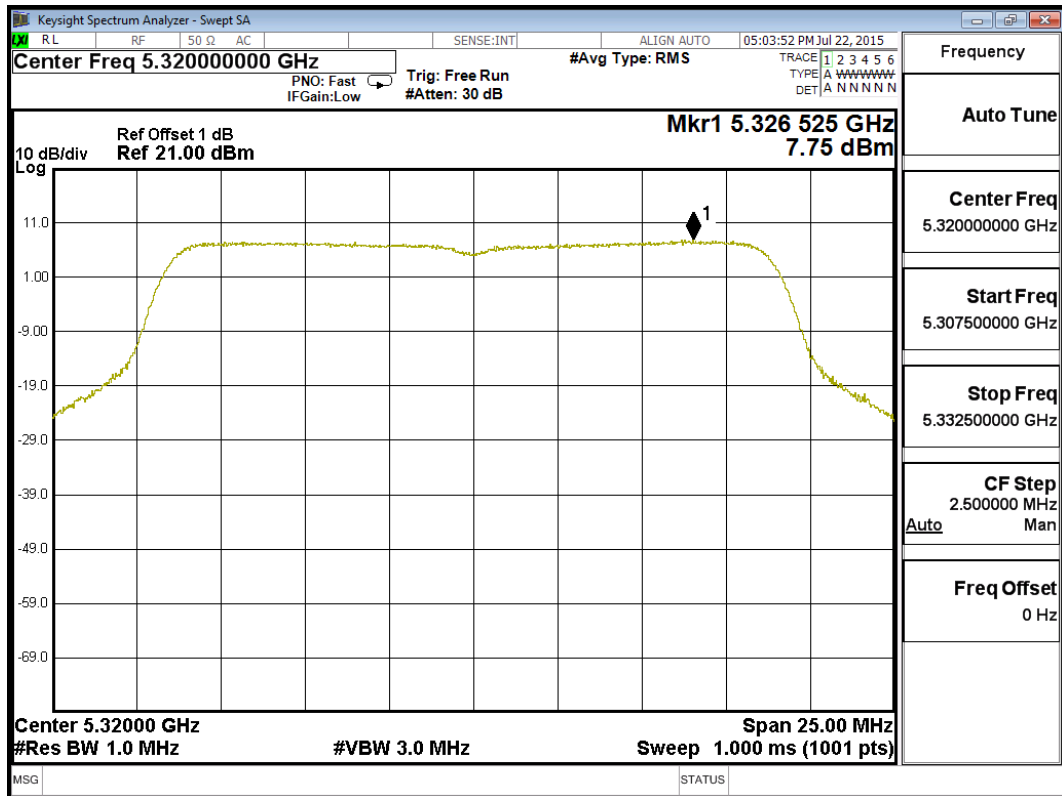
Channel 60: Chain A



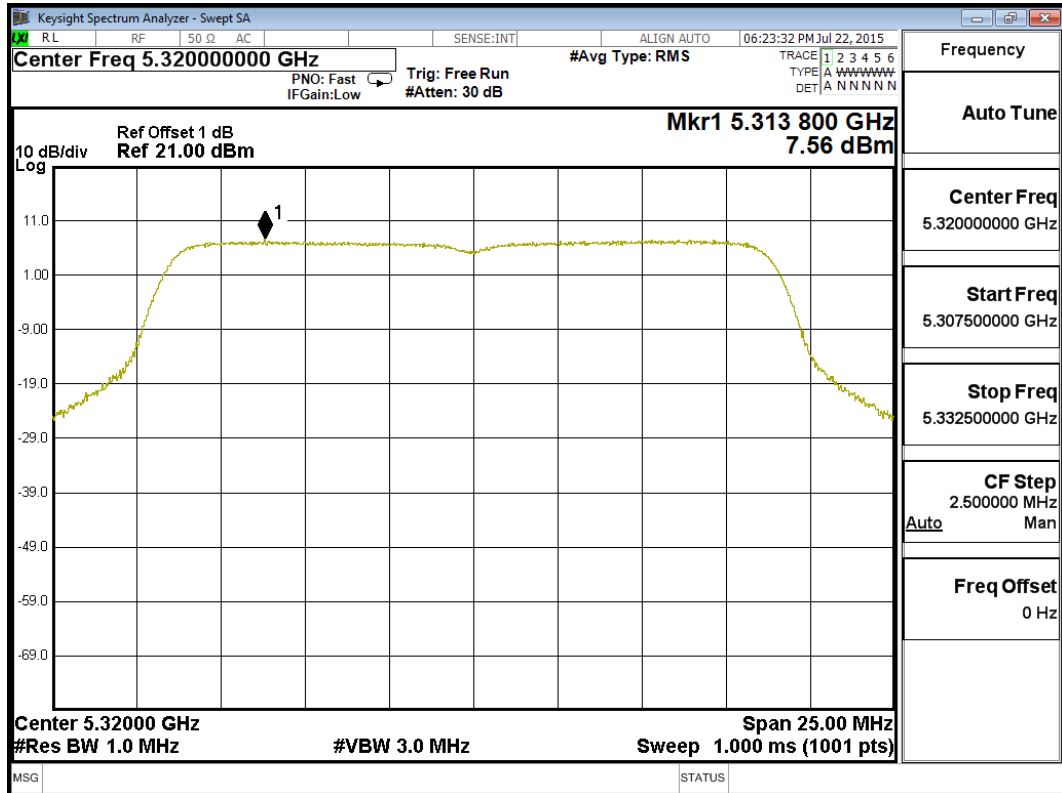
Channel 60: Chain B



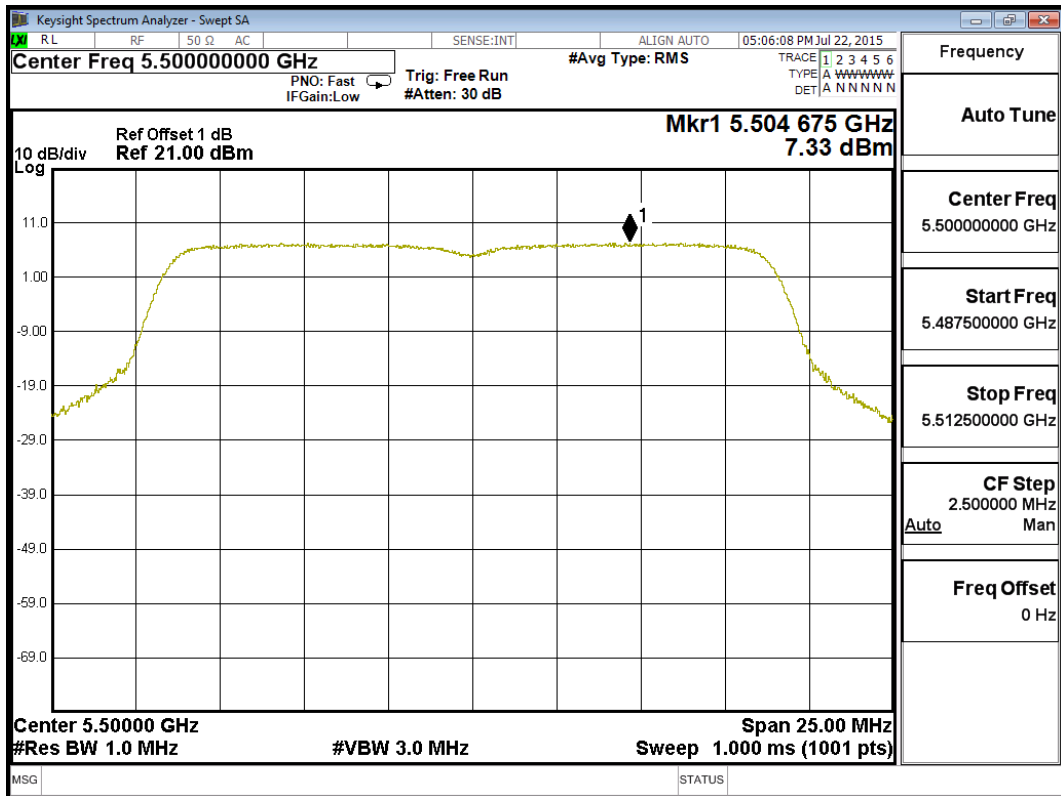
Channel 64: Chain A



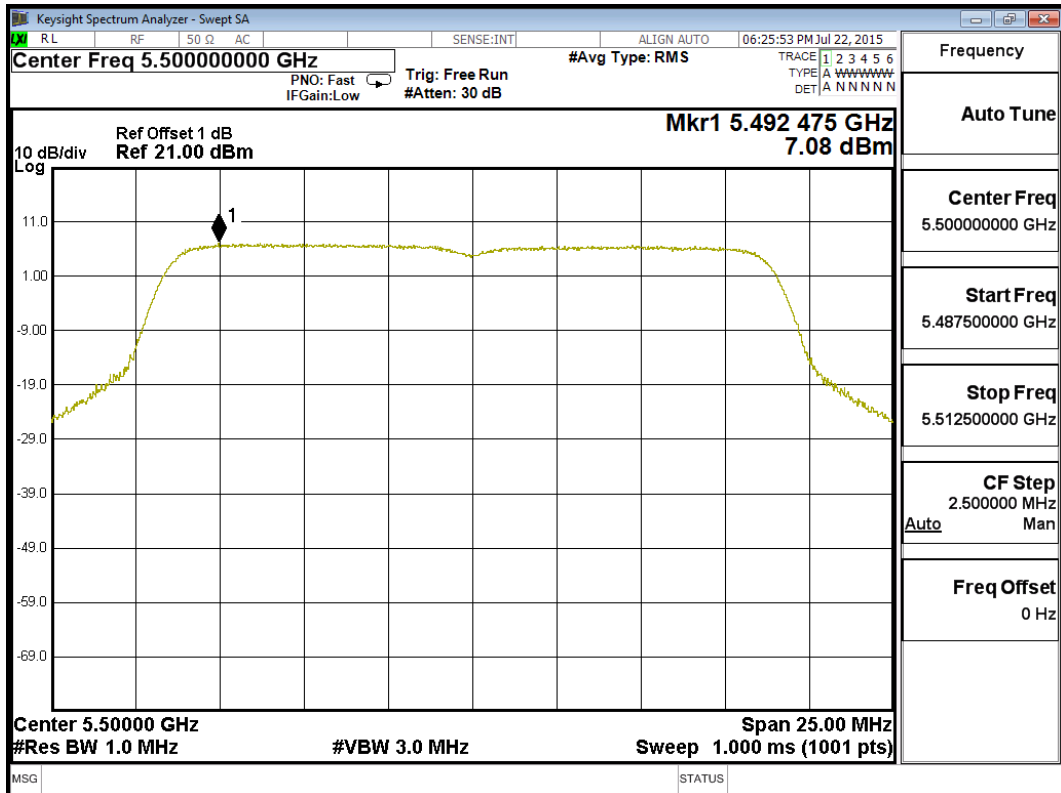
Channel 64: Chain B



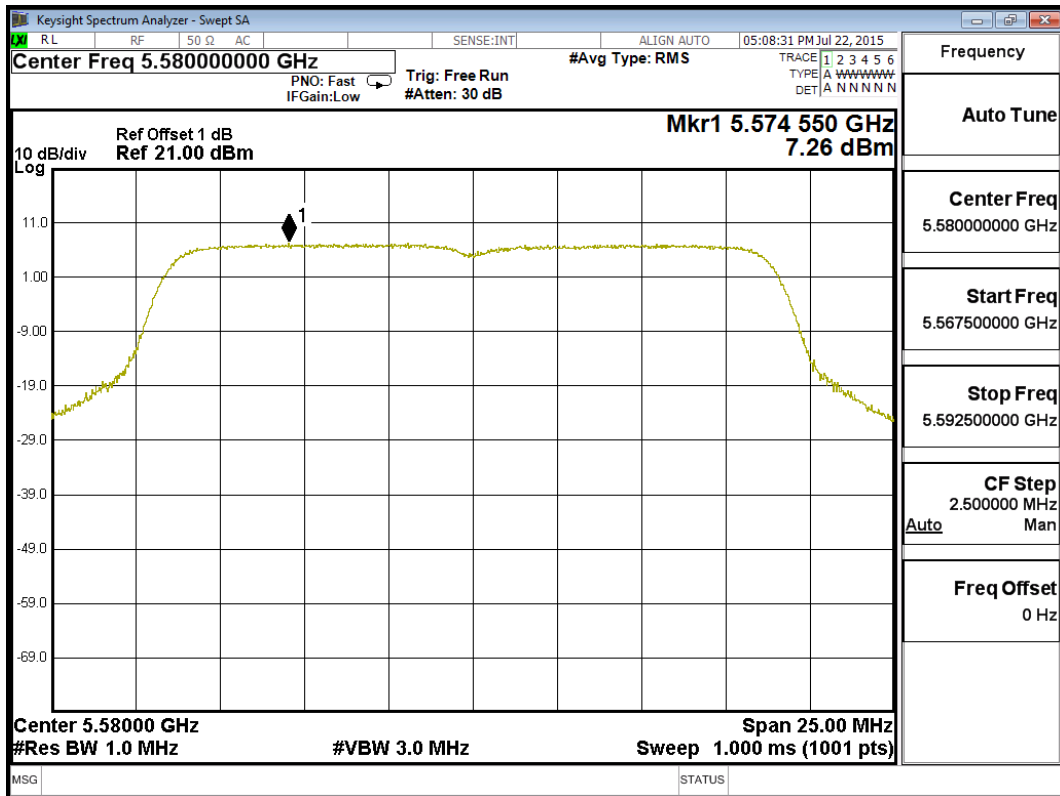
Channel 100: Chain A



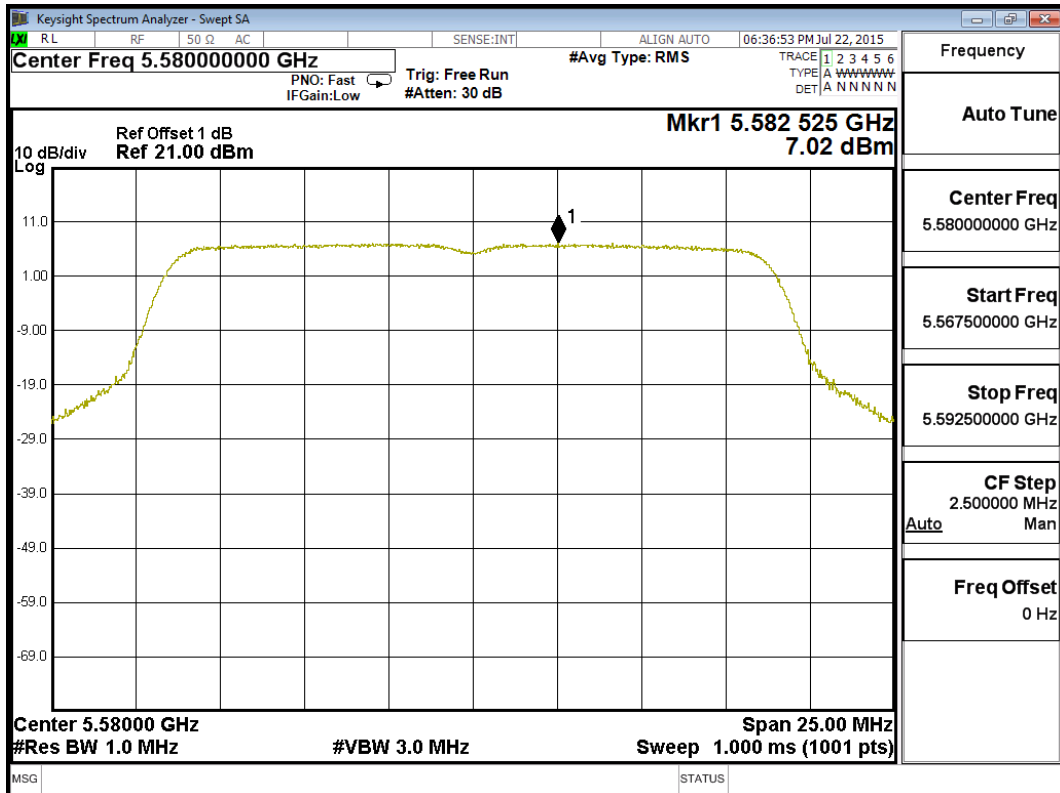
Channel 100: Chain B



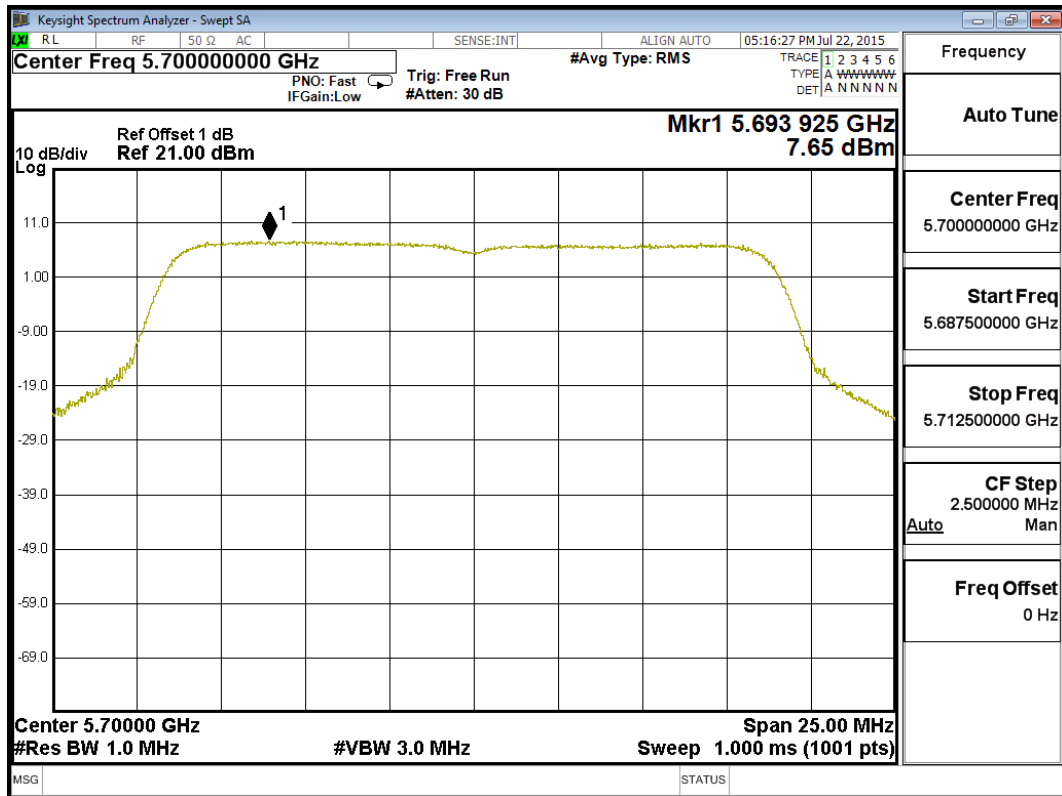
Channel 116: Chain A



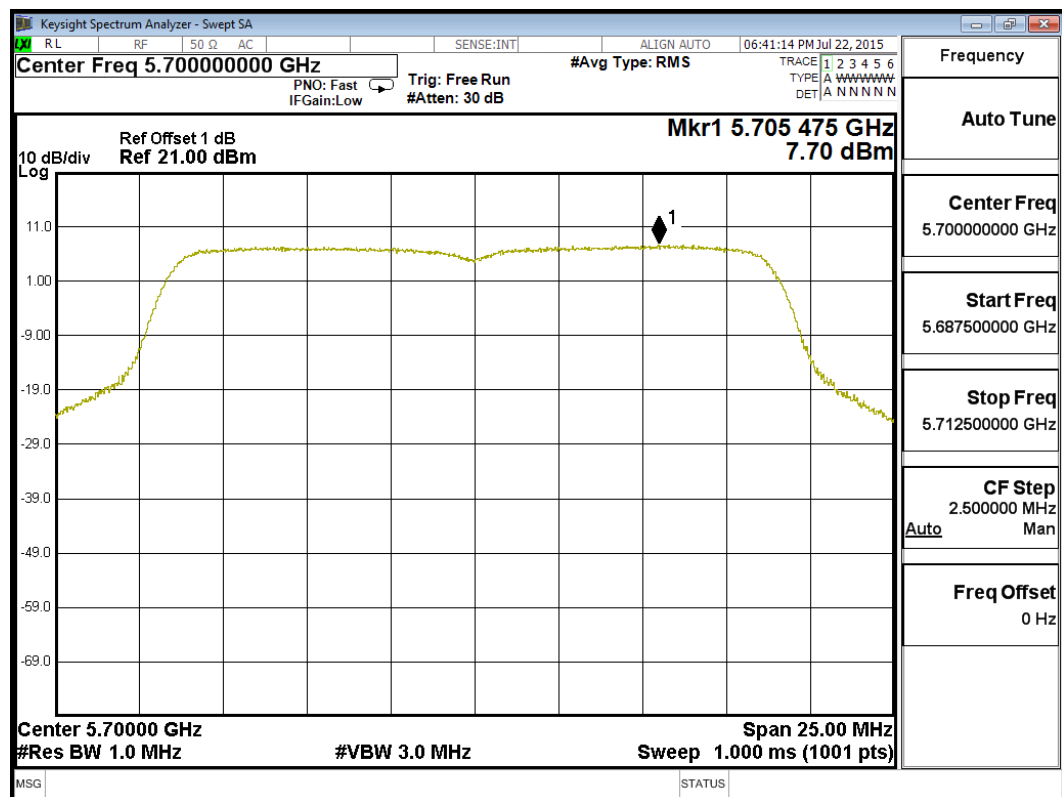
Channel 116: Chain B



Channel 140: Chain A



Channel 140: Chain B

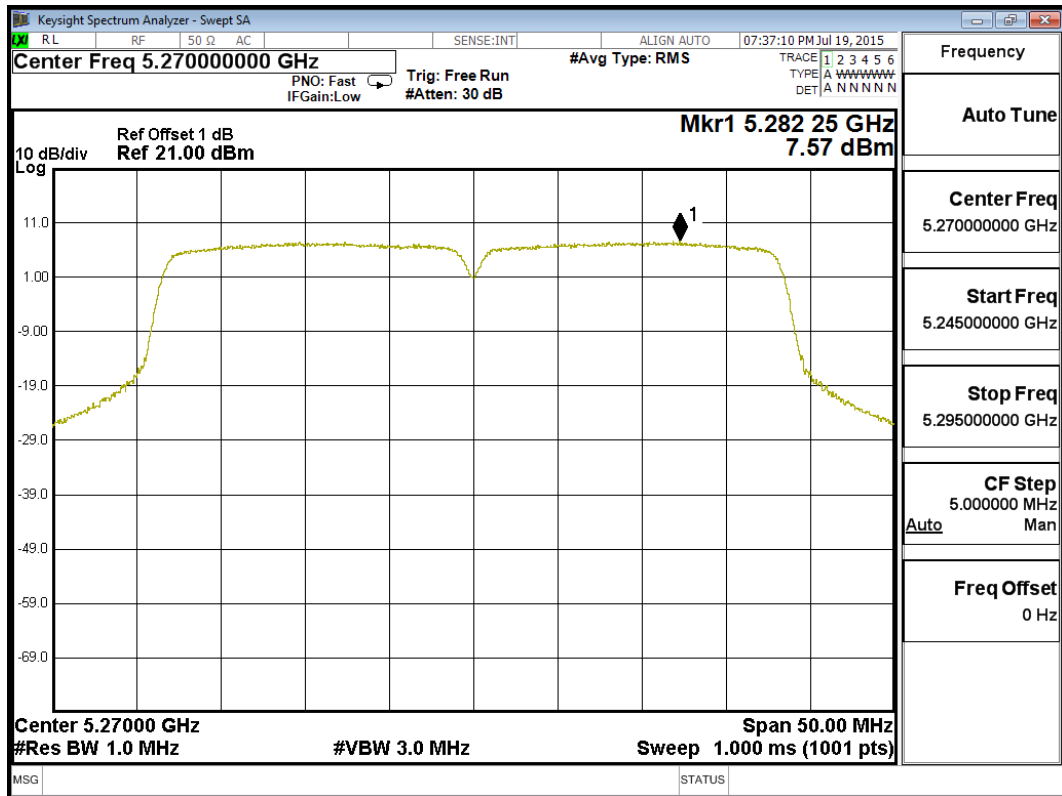


Product : 802.11ac Dual Band Access Point
 Test Item : Peak Power Spectral Density
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps)

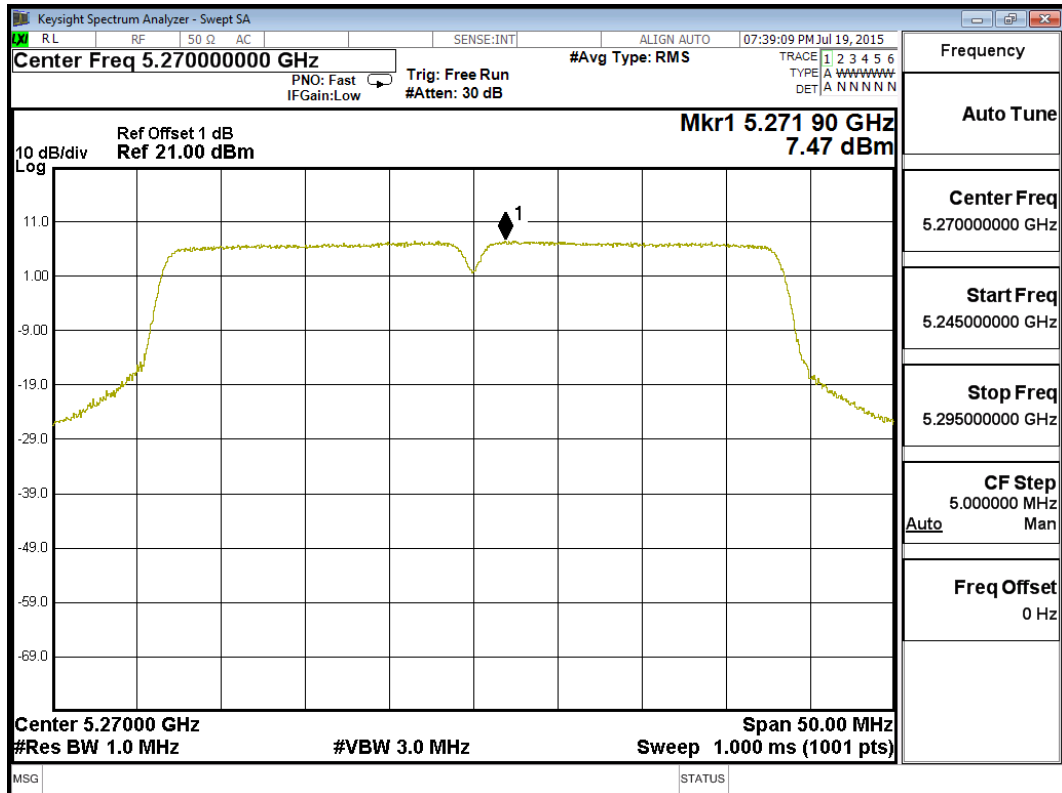
| Channel Number | Frequency (MHz) | Chain | PPSD/MHz (dBm) | Total PPSD/MHz (dBm) ₁ | Required Limit (dBm) | Result |
|----------------|-----------------|-------|----------------|-----------------------------------|----------------------|--------|
| 54 | 5270 | A | 7.570 | 10.580 | <11 | Pass |
| | | B | 7.470 | 10.480 | <11 | Pass |
| 62 | 5310 | A | 1.590 | 4.600 | <11 | Pass |
| | | B | 1.610 | 4.620 | <11 | Pass |
| 102 | 5510 | A | 6.560 | 9.570 | <11 | Pass |
| | | B | 6.640 | 9.650 | <11 | Pass |
| 110 | 5550 | A | 6.780 | 9.790 | <11 | Pass |
| | | B | 7.060 | 10.070 | <11 | Pass |
| 134 | 5670 | A | 6.230 | 9.240 | <11 | Pass |
| | | B | 6.280 | 9.290 | <11 | Pass |

Note 1: The quantity $10 \cdot \log 2$ (two antennas) is added to the spectrum peak value according to document 662911 D01

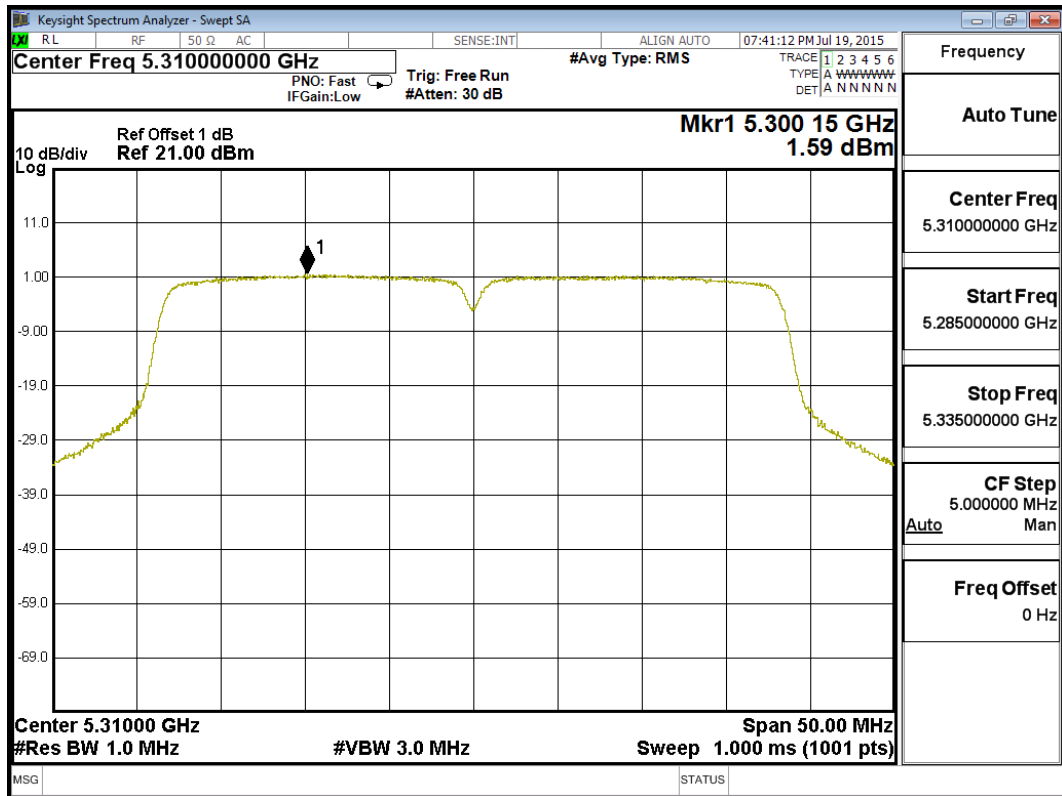
Channel 54: Chain A



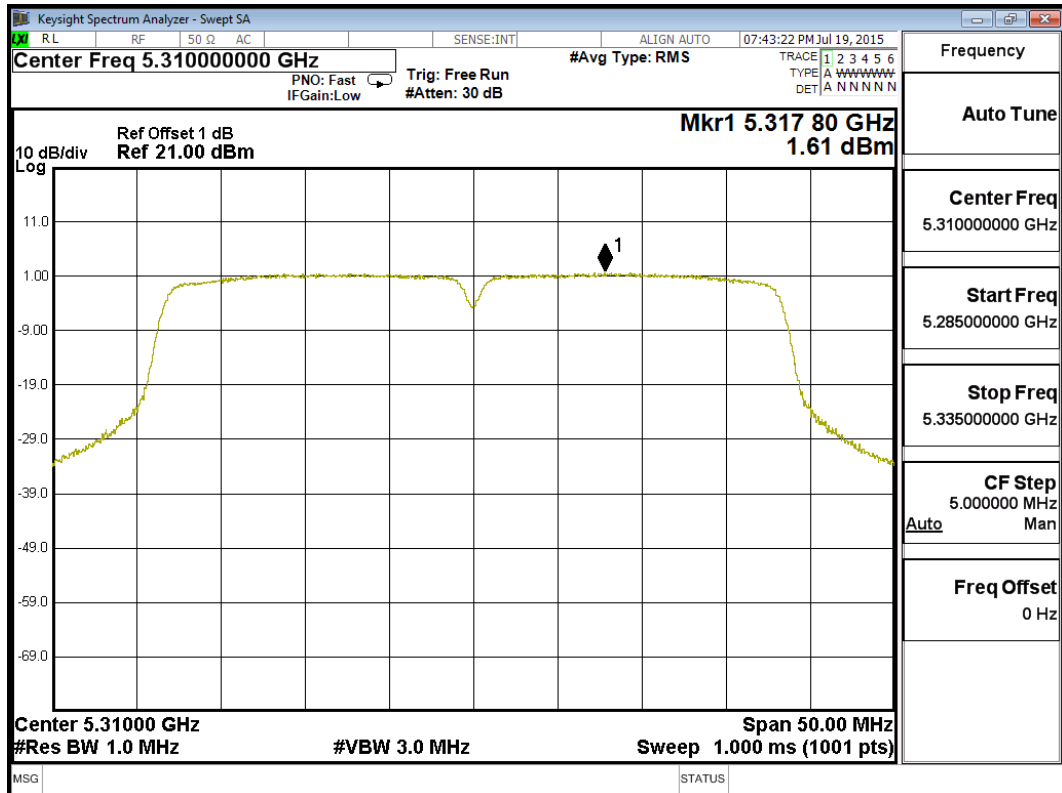
Channel 54: Chain B



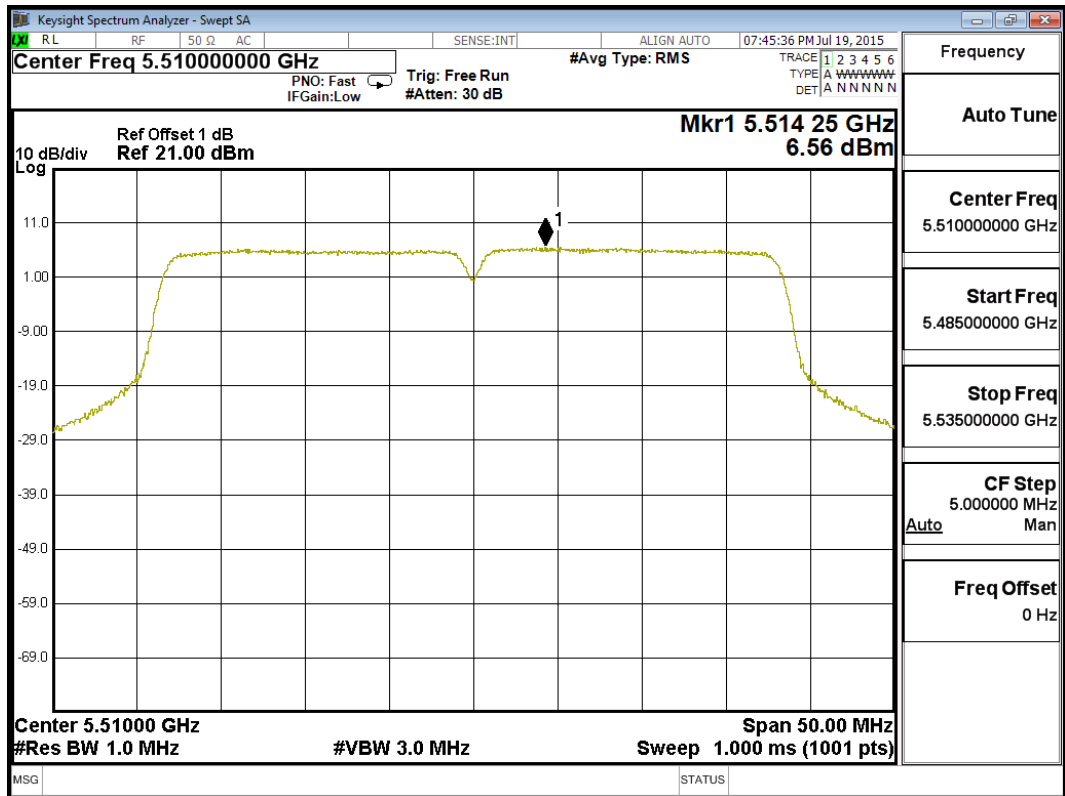
Channel 62: Chain A



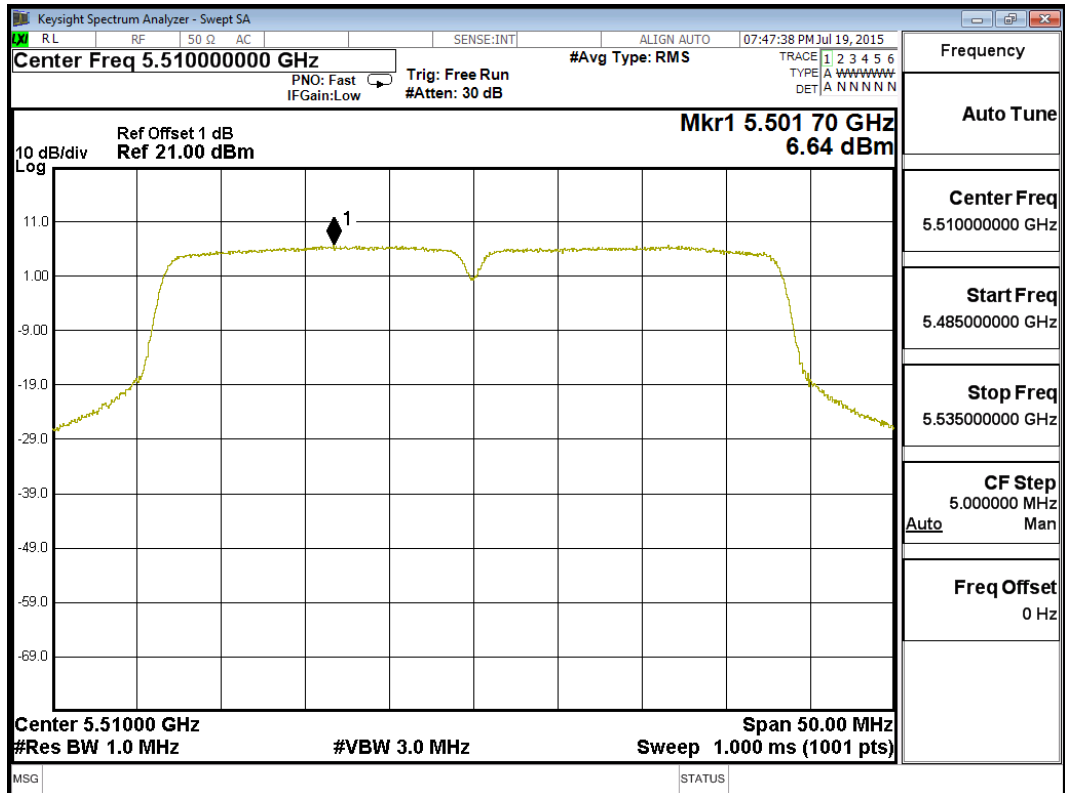
Channel 62: Chain B



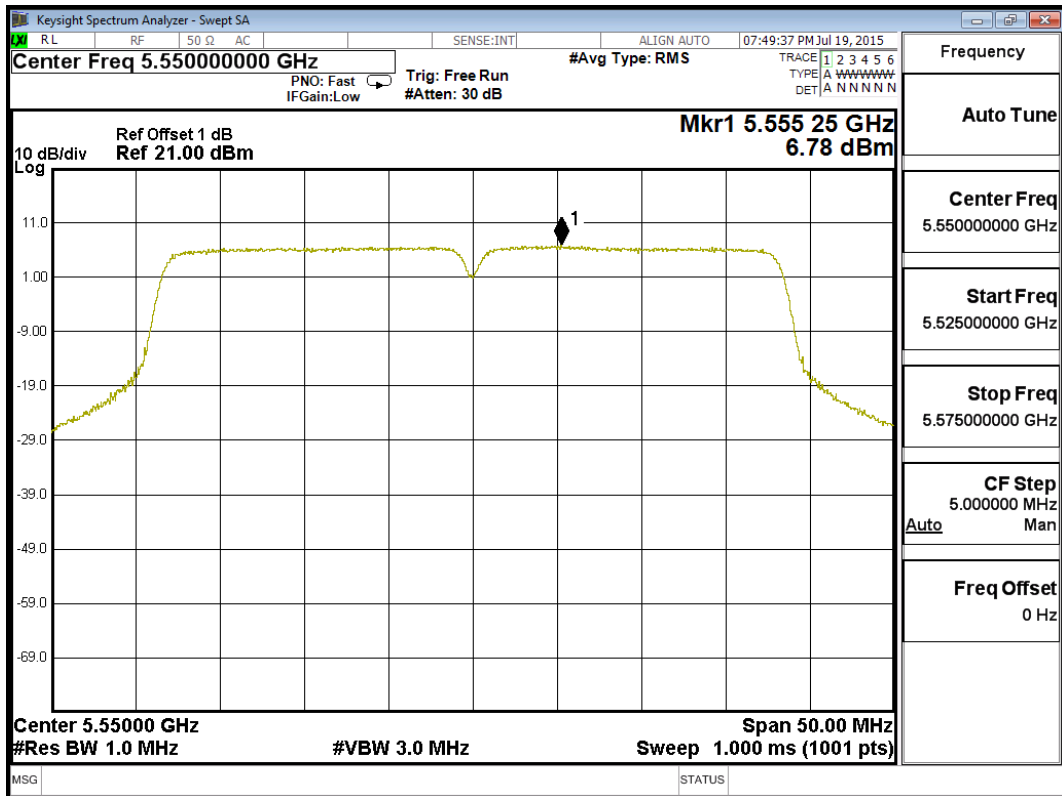
Channel 102: Chain A



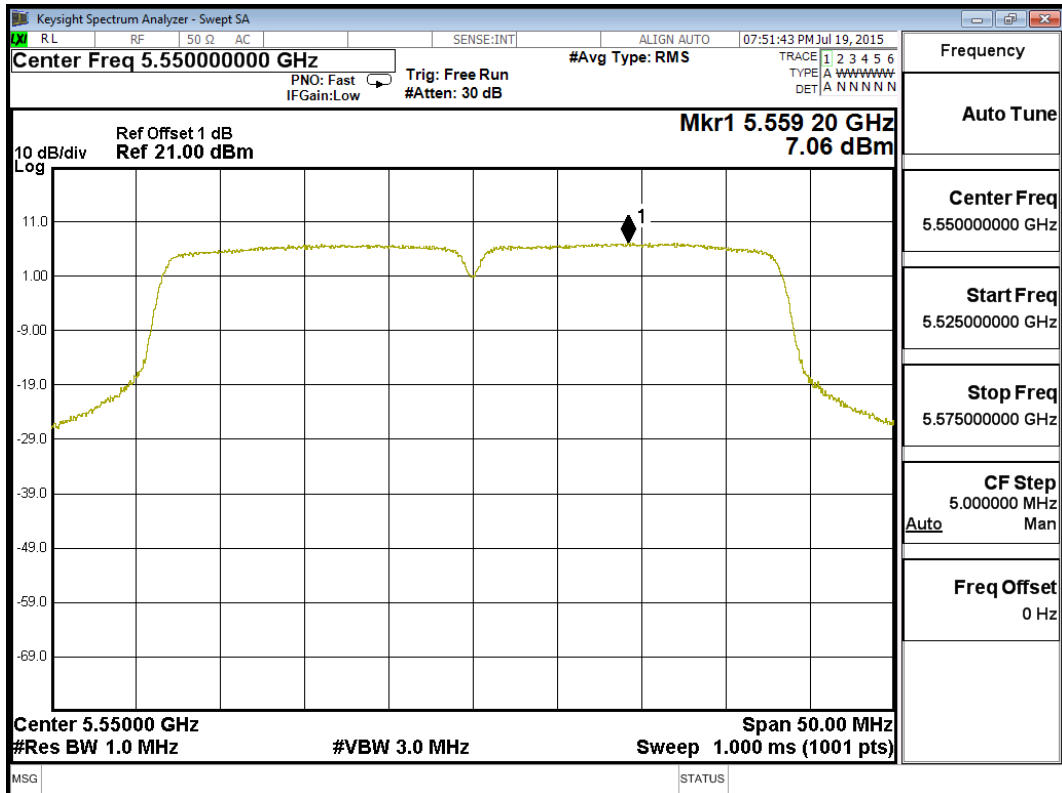
Channel 102: Chain B



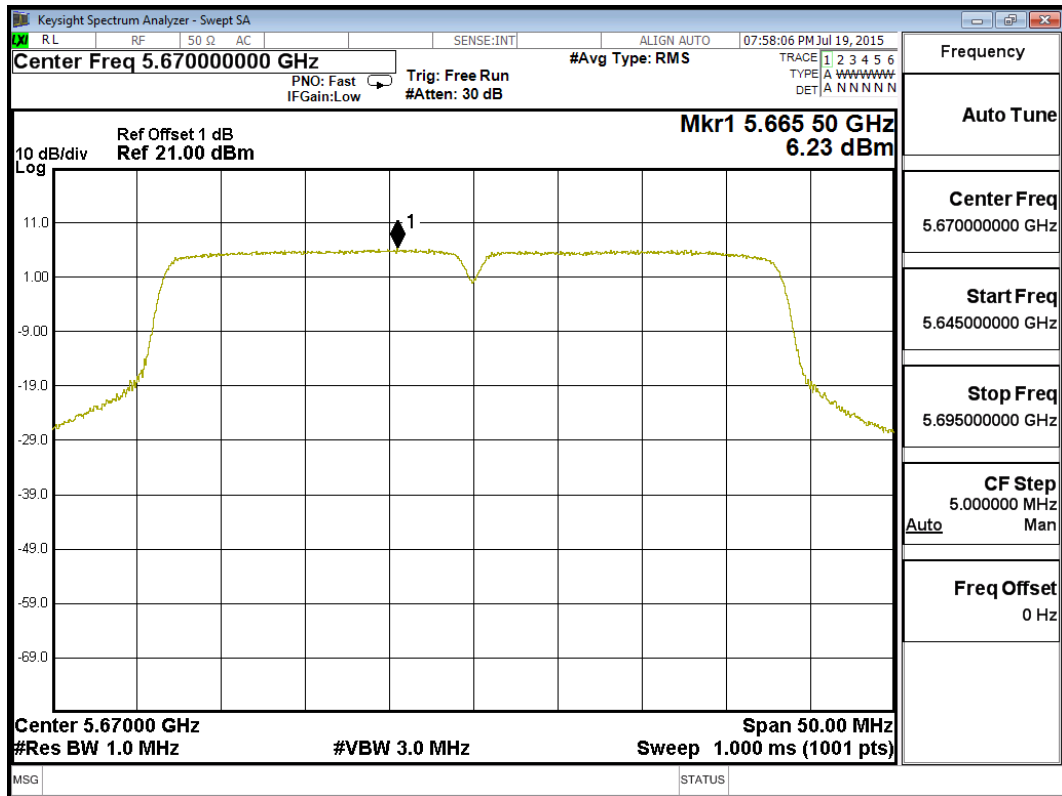
Channel 110: Chain A



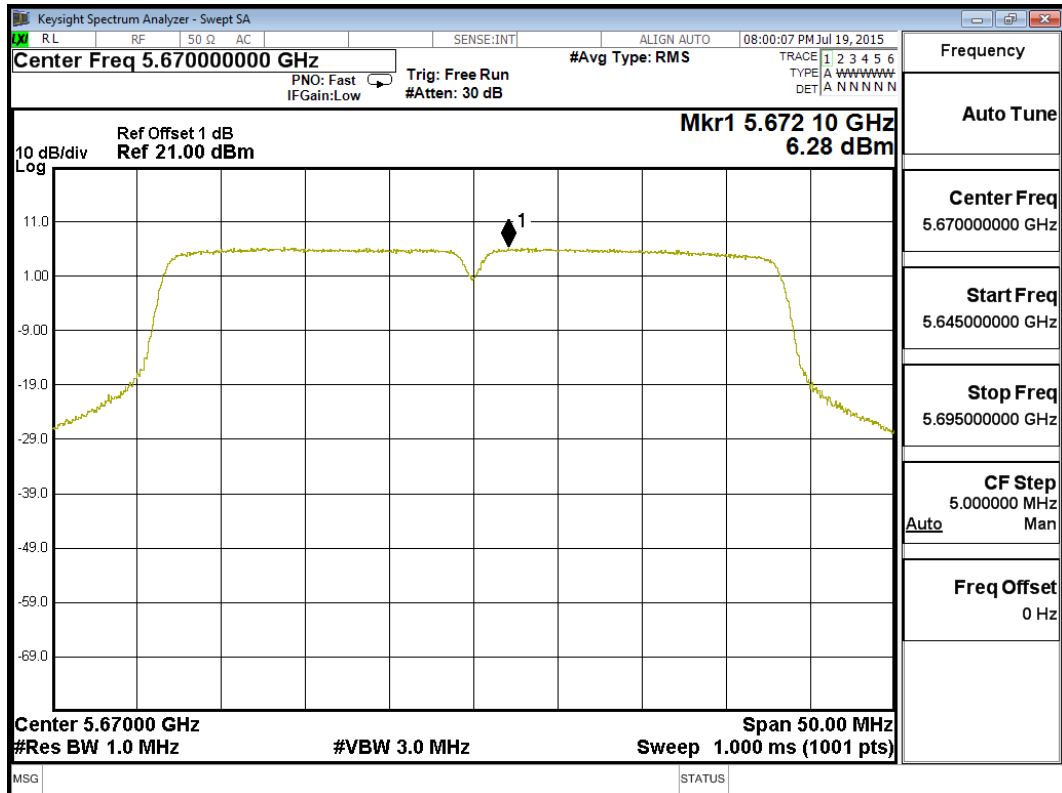
Channel 110: Chain B



Channel 134: Chain A



Channel 134: Chain B

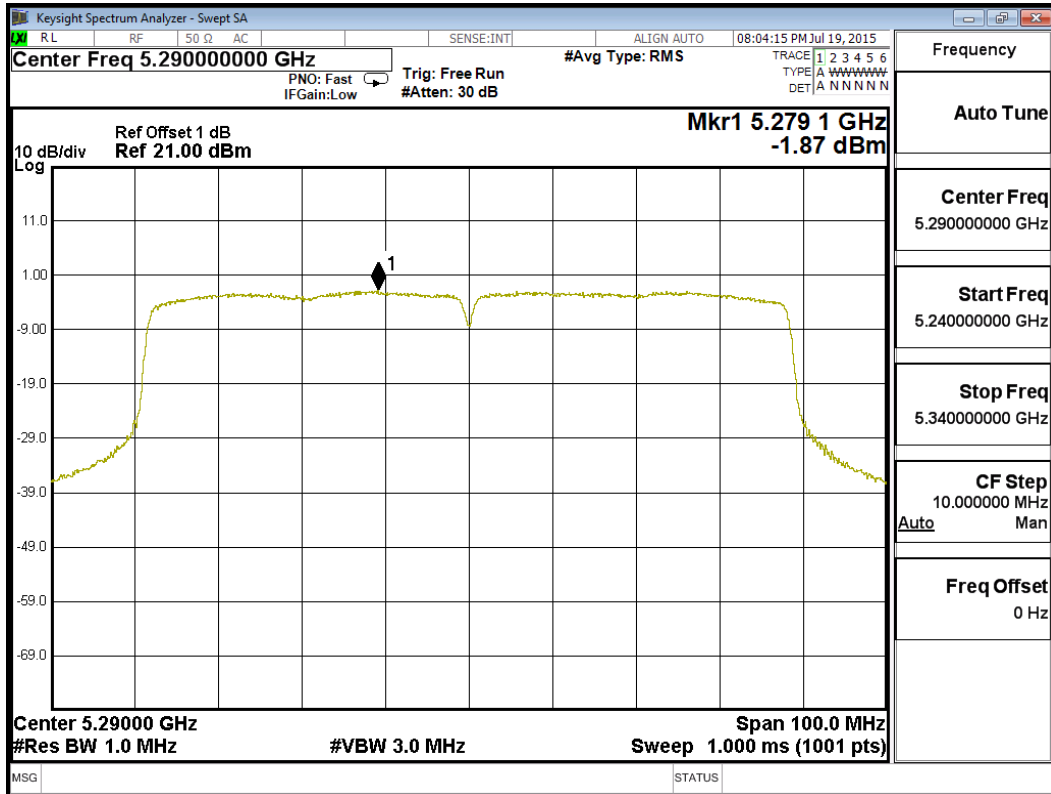


Product : 802.11ac Dual Band Access Point
 Test Item : Peak Power Spectral Density
 Test Site : No.3 OATS
 Test Mode : Mode 6 Transmit (802.11ac-80BW-65Mbps)

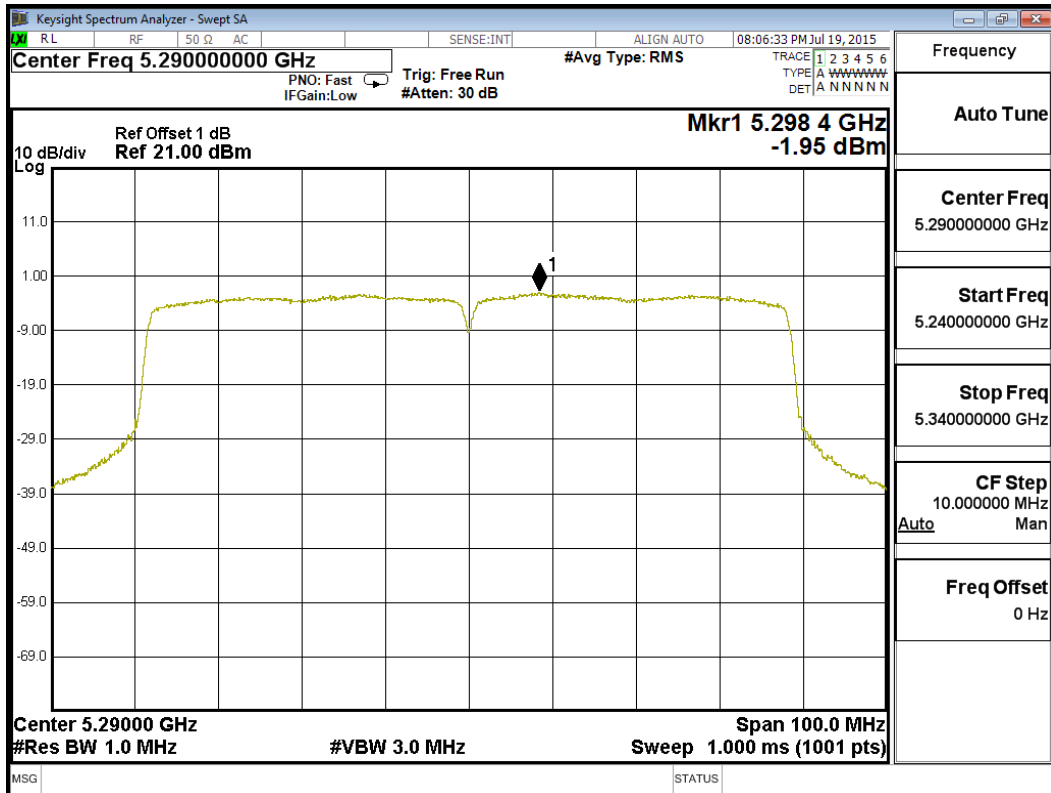
| Channel Number | Frequency (MHz) | Chain | PPSD/MHz (dBm) | BWCF (dB) | Total PPSD/MHz (dBm) ₁ | Required Limit (dBm) | Result |
|----------------|-----------------|-------|----------------|-----------|-----------------------------------|----------------------|--------|
| 58 | 5290 | A | -1.870 | -- | 1.140 | <11 | Pass |
| | | B | -1.950 | -- | 1.060 | <11 | Pass |
| 106 | 5530 | A | -1.770 | -- | 1.240 | <11 | Pass |
| | | B | -1.620 | -- | 1.390 | <11 | Pass |
| 122 | 5610 | A | 1.978 | -- | 4.988 | <11 | Pass |
| | | B | 1.860 | -- | 4.870 | <11 | Pass |

Note : The quantity $10 \cdot \log 2$ (two antennas) is added to the spectrum peak value according to document 662911 D01.

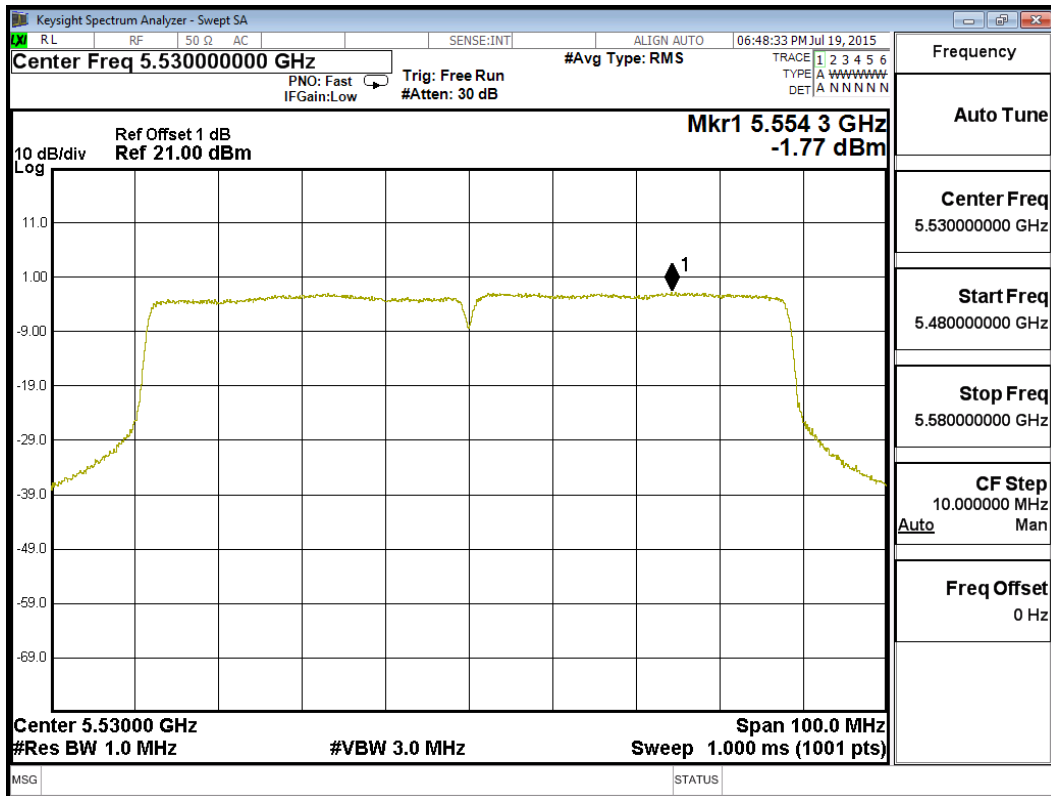
Channel 58: Chain A



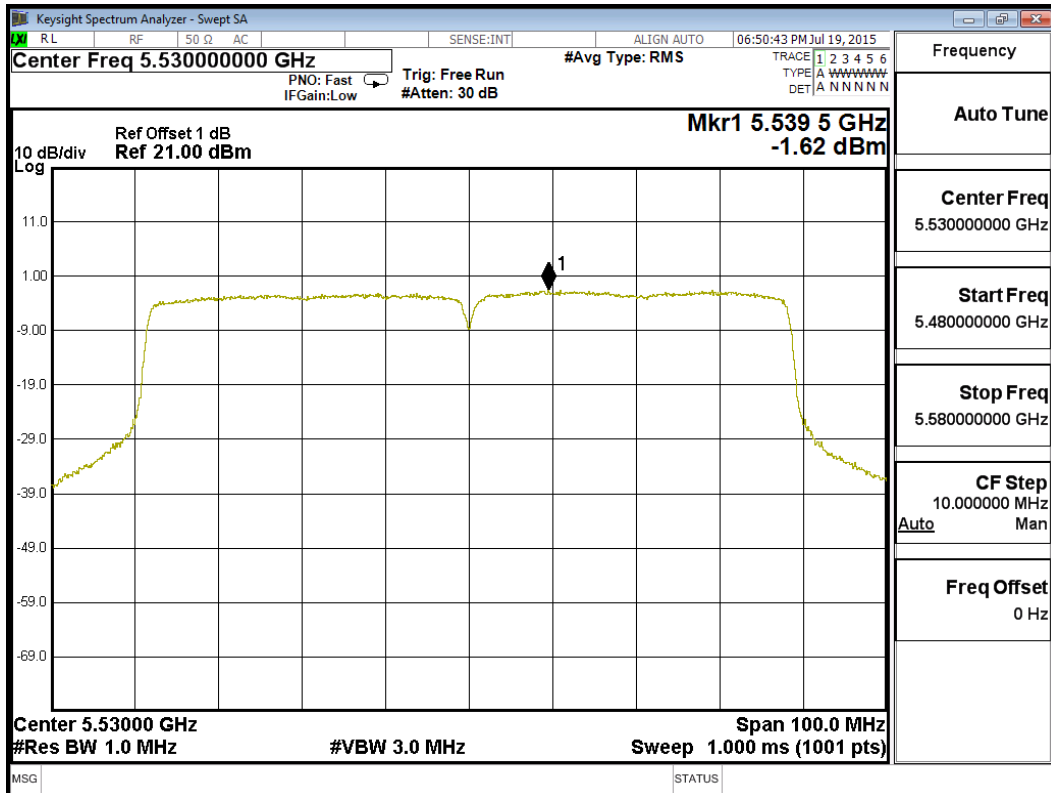
Channel 58: Chain B



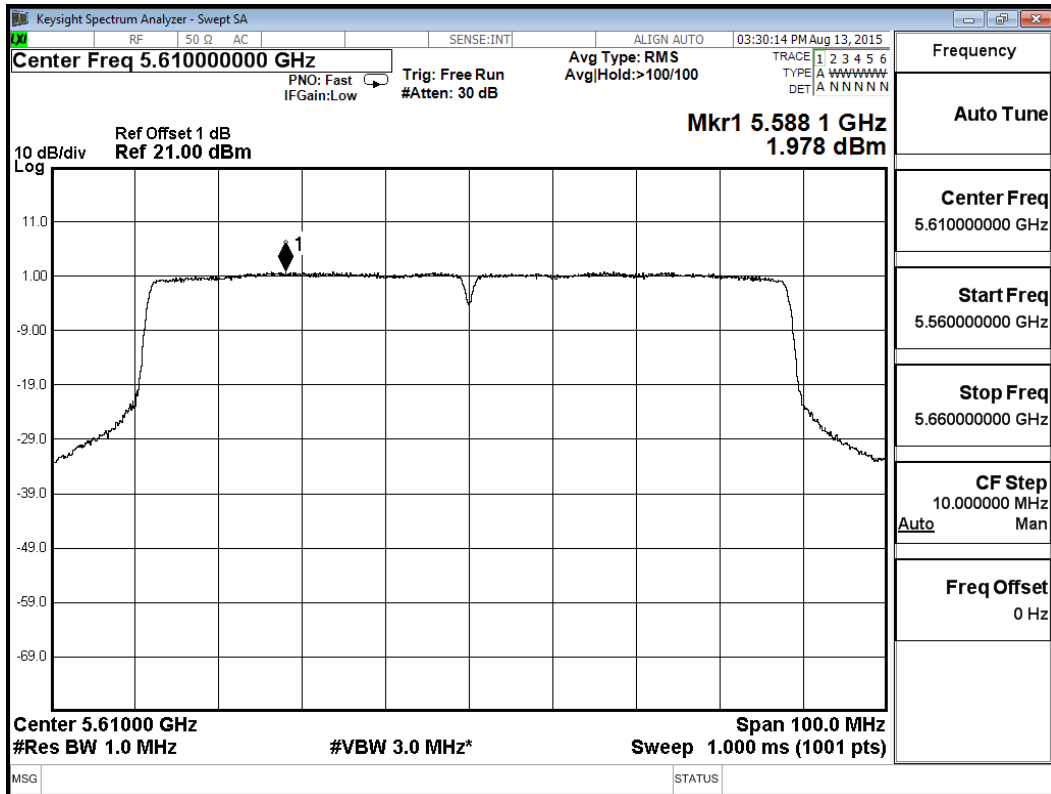
Channel 106: Chain A



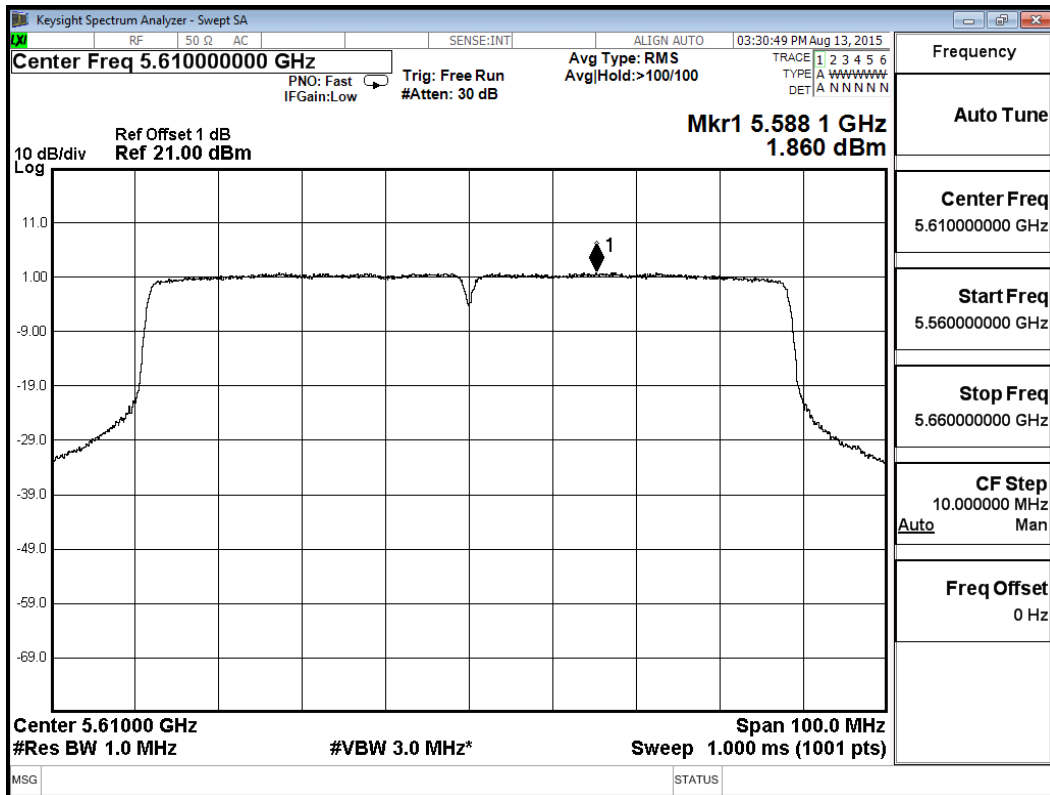
Channel 106: Chain B



Channel 122: Chain A



Channel 122: Chain B



5. Radiated Emission

5.1. Test Equipment

The following test equipments are used during the radiated emission test:

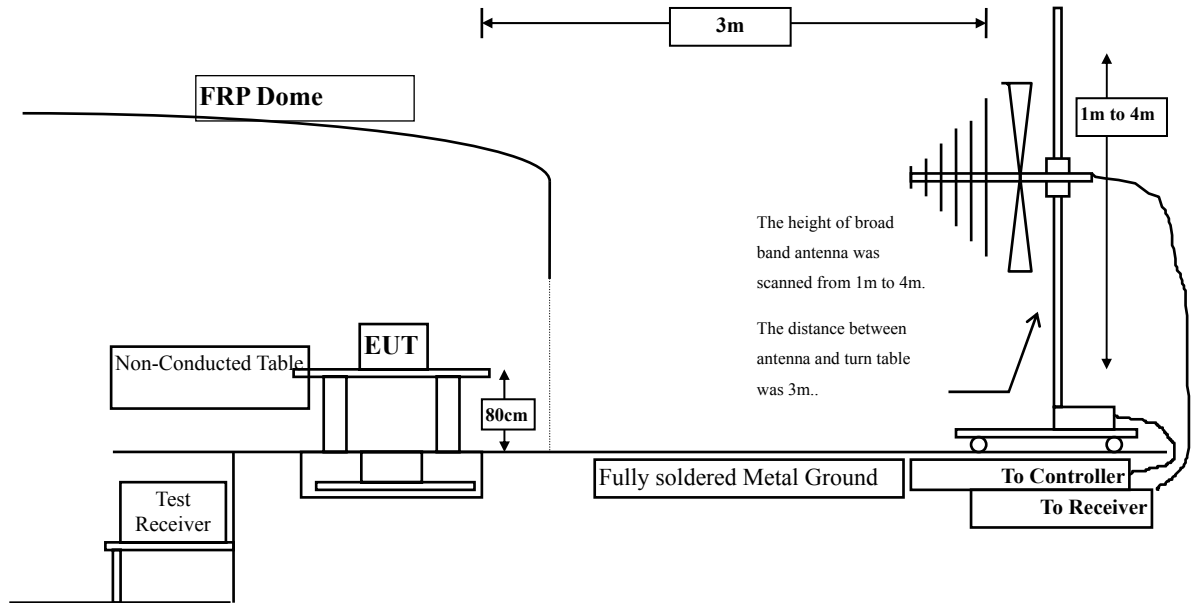
| Test Site | Equipment | | Manufacturer | Model No./Serial No. | Last Cal. |
|------------|-----------|-----------------------|-----------------|----------------------|-----------|
| ☒ Site # 3 | X | Magnetic Loop Antenna | Teseq | HLA6121/ 37133 | Sep, 2014 |
| | X | Bilog Antenna | Schaffner Chase | CBL6112B/ 2707 | Jun, 2015 |
| | X | EMI Test Receiver | R&S | ESCS 30/838251/ 001 | Jun, 2015 |
| | X | Coaxial Cable | QTK(Arnist) | RG 214/ LC003-RG | Jun, 2015 |
| | X | Coaxial signal switch | Arnist | MP59B/ 6200798682 | Jun, 2015 |

| Test Site | Equipment | | Manufacturer | Model No./Serial No. | Last Cal. |
|-----------|-----------|-------------------|--------------|-----------------------------|-----------|
| ☒ CB # 8 | X | Spectrum Analyzer | R&S | FSP40/ 100339 | Oct, 2014 |
| | X | Horn Antenna | ETS-Lindgren | 3117/ 35205 | Mar, 2015 |
| | X | Horn Antenna | Schwarzbeck | BBHA9170/209 | Jan, 2015 |
| | X | Horn Antenna | TRC | AH-0801/95051 | Aug, 2015 |
| | X | Pre-Amplifier | EMCI | EMC012630SE/980210 | Jan, 2015 |
| | X | Pre-Amplifier | MITEQ | JS41-001040000-58-5P/153945 | Jul, 2015 |
| | X | Pre-Amplifier | NARDA | DBL-1840N506/013 | Jul, 2015 |

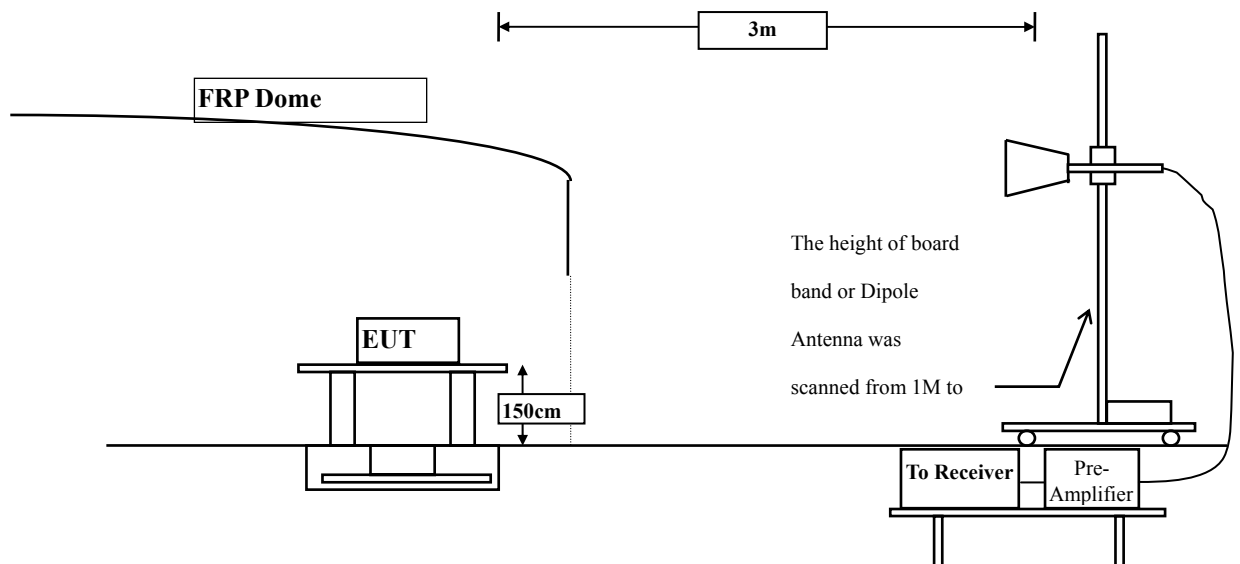
- Note:
1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
 2. The test instruments marked with “X” are used to measure the final test results.

5.2. Test Setup

Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



5.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated

by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

| FCC Part 15 Subpart C Paragraph 15.209(a) Limits | | |
|---|--------------------------------------|---------------------------------|
| Frequency MHz | Field strength (microvolts/meter) | Measurement distance (meter) |
| 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 |

Remarks: E field strength (dB μ V/m) = 20 log E field strength (uV/m)

5.4. Test Procedure

The EUT was setup according to ANSI C63.10, 2013 and tested according to FCC KDB-789033 test procedure for compliance to FCC 47CFR 15. 407 requirements.

Measuring the frequency range below 1GHz, the EUT is placed on a turn table which is 0.8 meter above ground, when measuring the frequency range above 1GHz, the EUT is placed on a turn table which is 1.5 meter above ground.

The turn table is rotated 360 degrees to determine the position of the maximum emission level.

The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned between 1 meter and 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10: 2013 on radiated measurement.

The resolution bandwidth below 30MHz setting on the field strength meter is 9kHz and 30MHz~1GHz is 120kHz and above 1GHz is 1MHz.

Radiated emission measurements below 30MHz are made using Loop Antenna and 30MHz~1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna.

The worst radiated emission is measured in the Open Area Test Site on the Final Measurement.

The measurement frequency range from 9kHz - 10th Harmonic of fundamental was investigated.

5.5. Uncertainty

± 3.8 dB below 1GHz

± 3.9 dB above 1GHz

5.6. Test Result of Radiated Emission

Product : 802.11ac Dual Band Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5260MHz)

| Frequency MHz | Correction Factor dB | Reading Level dBµV | Measurement Level dBµV/m | Margin dB | Limit dBµV/m |
|------------------|----------------------------|--------------------------|--------------------------------|--------------|-----------------|
|------------------|----------------------------|--------------------------|--------------------------------|--------------|-----------------|

Horizontal

Peak Detector:

| | | | | | |
|-----------|--------|--------|--------|---------|--------|
| 10520.000 | 14.015 | 34.450 | 48.465 | -25.535 | 74.000 |
| 15780.000 | * | * | * | * | 74.000 |
| 21040.000 | * | * | * | * | 74.000 |
| 26300.000 | * | * | * | * | 74.000 |
| 31560.000 | * | * | * | * | 74.000 |
| 36820.000 | * | * | * | * | 74.000 |

Average

Detector:

--

Vertical

Peak Detector:

| | | | | | |
|-----------|--------|--------|--------|---------|--------|
| 10520.000 | 14.818 | 33.940 | 48.758 | -25.242 | 74.000 |
| 15780.000 | * | * | * | * | 74.000 |
| 21040.000 | * | * | * | * | 74.000 |
| 26300.000 | * | * | * | * | 74.000 |
| 31560.000 | * | * | * | * | 74.000 |
| 36820.000 | * | * | * | * | 74.000 |

Average

Detector:

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correction Factor.
5. Correction Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.
7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.

Product : 802.11ac Dual Band Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5300MHz)

| Frequency MHz | Correction Factor dB | Reading Level dB μ V | Measurement Level dB μ V/m | Margin dB | Limit dB μ V/m |
|------------------------------|----------------------------|--------------------------------|--------------------------------------|--------------|-----------------------|
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 10600.000 | 14.550 | 35.040 | 49.589 | -24.411 | 74.000 |
| 15900.000 | * | * | * | * | 74.000 |
| 21200.000 | * | * | * | * | 74.000 |
| 26500.000 | * | * | * | * | 74.000 |
| 31800.000 | * | * | * | * | 74.000 |
| 37100.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 10600.000 | 14.881 | 34.770 | 49.651 | -24.349 | 74.000 |
| 15900.000 | * | * | * | * | 74.000 |
| 21200.000 | * | * | * | * | 74.000 |
| 26500.000 | * | * | * | * | 74.000 |
| 31800.000 | * | * | * | * | 74.000 |
| 37100.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correction Factor.
5. Correction Factor = Antenna factor + Cable loss - Amplifier gain.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.
7. The emission levels of other frequencies are greater than 10db under the limit and not shown in test report.

Product : 802.11ac Dual Band Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5320MHz)

| Frequency MHz | Correction Factor dB | Reading Level dBµV | Measurement Level dBµV/m | Margin dB | Limit dBµV/m |
|------------------------------|----------------------------|--------------------------|--------------------------------|--------------|-----------------|
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 10640.000 | 14.690 | 35.570 | 50.260 | -23.740 | 74.000 |
| 15960.000 | * | * | * | * | 74.000 |
| 21280.000 | * | * | * | * | 74.000 |
| 26600.000 | * | * | * | * | 74.000 |
| 31920.000 | * | * | * | * | 74.000 |
| 37240.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 10640.000 | 15.083 | 35.600 | 50.683 | -23.317 | 74.000 |
| 15960.000 | * | * | * | * | 74.000 |
| 21280.000 | * | * | * | * | 74.000 |
| 26600.000 | * | * | * | * | 74.000 |
| 31920.000 | * | * | * | * | 74.000 |
| 37240.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correction Factor.
5. Correction Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.
7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.

Product : 802.11ac Dual Band Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5500MHz)

| Frequency MHz | Correction Factor dB | Reading Level dB μ V | Measurement Level dB μ V/m | Margin dB | Limit dB μ V/m |
|------------------------------|----------------------------|--------------------------------|--------------------------------------|--------------|-----------------------|
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 11000.000 | 16.399 | 34.050 | 50.449 | -23.551 | 74.000 |
| 16500.000 | * | * | * | * | 74.000 |
| 22000.000 | * | * | * | * | 74.000 |
| 27500.000 | * | * | * | * | 74.000 |
| 33000.000 | * | * | * | * | 74.000 |
| 38500.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 11000.000 | 17.132 | 33.630 | 50.762 | -23.238 | 74.000 |
| 16500.000 | * | * | * | * | 74.000 |
| 22000.000 | * | * | * | * | 74.000 |
| 27500.000 | * | * | * | * | 74.000 |
| 33000.000 | * | * | * | * | 74.000 |
| 38500.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correction Factor.
5. Correction Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.
7. The emission levels of other frequencies are greater than 10db under the limit and not shown in test report.

Product : 802.11ac Dual Band Access Point
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5580MHz)

| Frequency | Correction | Reading | Measurement | Margin | Limit |
|-----------|------------|------------|--------------|--------|--------------|
| MHz | Factor | Level | Level | dB | dB μ V/m |
| | dB | dB μ V | dB μ V/m | | |

Horizontal

Peak Detector:

| | | | | | |
|-----------|--------|--------|--------|---------|--------|
| 11160.000 | 16.664 | 34.580 | 51.245 | -22.755 | 74.000 |
| 16740.000 | * | * | * | * | 74.000 |
| 22320.000 | * | * | * | * | 74.000 |
| 27900.000 | * | * | * | * | 74.000 |
| 33480.000 | * | * | * | * | 74.000 |
| 39060.000 | * | * | * | * | 74.000 |

Average

Detector:

--

Vertical

Peak Detector:

| | | | | | |
|-----------|--------|--------|--------|---------|--------|
| 11160.000 | 17.643 | 33.940 | 51.583 | -22.417 | 74.000 |
| 16740.000 | * | * | * | * | 74.000 |
| 22320.000 | * | * | * | * | 74.000 |
| 27900.000 | * | * | * | * | 74.000 |
| 33480.000 | * | * | * | * | 74.000 |
| 39060.000 | * | * | * | * | 74.000 |

Average

Detector:

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correction Factor.
5. Correction Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.
7. The emission levels of other frequencies are greater than 10db under the limit and not shown in test report.

Product : 802.11ac Dual Band Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5700MHz)

| Frequency MHz | Correction Factor dB | Reading Level dB μ V | Measurement Level dB μ V/m | Margin dB | Limit dB μ V/m |
|------------------------------|----------------------------|--------------------------------|--------------------------------------|--------------|-----------------------|
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 11400.000 | 16.530 | 34.560 | 51.091 | -22.909 | 74.000 |
| 17100.000 | * | * | * | * | 74.000 |
| 22800.000 | * | * | * | * | 74.000 |
| 28500.000 | * | * | * | * | 74.000 |
| 34200.000 | * | * | * | * | 74.000 |
| 39900.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 11400.000 | 17.138 | 34.970 | 52.108 | -21.892 | 74.000 |
| 17100.000 | * | * | * | * | 74.000 |
| 22800.000 | * | * | * | * | 74.000 |
| 28500.000 | * | * | * | * | 74.000 |
| 34200.000 | * | * | * | * | 74.000 |
| 39900.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correction Factor.
5. Correction Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.
7. The emission levels of other frequencies are greater than 10db under the limit and not shown in test report.

Product : 802.11ac Dual Band Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW 14.4Mbps) (5260MHz)

| Frequency MHz | Correction Factor dB | Reading Level dBμV | Measurement Level dBμV/m | Margin dB | Limit dBμV/m |
|------------------------------|----------------------------|--------------------------|--------------------------------|--------------|-----------------|
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 10520.000 | 14.015 | 34.980 | 48.995 | -25.005 | 74.000 |
| 15780.000 | * | * | * | * | 74.000 |
| 21040.000 | * | * | * | * | 74.000 |
| 26300.000 | * | * | * | * | 74.000 |
| 31560.000 | * | * | * | * | 74.000 |
| 36820.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 10520.000 | 14.818 | 34.870 | 49.688 | -24.312 | 74.000 |
| 15780.000 | * | * | * | * | 74.000 |
| 21040.000 | * | * | * | * | 74.000 |
| 26300.000 | * | * | * | * | 74.000 |
| 31560.000 | * | * | * | * | 74.000 |
| 36820.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correction Factor.
5. Correction Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.
7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.

Product : 802.11ac Dual Band Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW 14.4Mbps) (5300MHz)

| Frequency MHz | Correction Factor dB | Reading Level dBµV | Measurement Level dBµV/m | Margin dB | Limit dBµV/m |
|------------------------------|----------------------------|--------------------------|--------------------------------|--------------|-----------------|
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 10600.000 | 14.550 | 35.050 | 49.599 | -24.401 | 74.000 |
| 15900.000 | * | * | * | * | 74.000 |
| 21200.000 | * | * | * | * | 74.000 |
| 26500000 | * | * | * | * | 74.000 |
| 31800.000 | * | * | * | * | 74.000 |
| 37100.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 10600.000 | 14.881 | 34.920 | 49.801 | -24.199 | 74.000 |
| 15900.000 | * | * | * | * | 74.000 |
| 21200.000 | * | * | * | * | 74.000 |
| 26500000 | * | * | * | * | 74.000 |
| 31800.000 | * | * | * | * | 74.000 |
| 37100.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correction Factor.
5. Correction Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.
7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.

Product : 802.11ac Dual Band Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW 14.4Mbps) (5320MHz)

| Frequency MHz | Correction Factor dB | Reading Level dBµV | Measurement Level dBµV/m | Margin dB | Limit dBµV/m |
|------------------------------|----------------------------|--------------------------|--------------------------------|--------------|-----------------|
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 10640.000 | 14.690 | 35.190 | 49.880 | -24.120 | 74.000 |
| 15960.000 | * | * | * | * | 74.000 |
| 21280.000 | * | * | * | * | 74.000 |
| 26600.000 | * | * | * | * | 74.000 |
| 31920.000 | * | * | * | * | 74.000 |
| 37240.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 10640.000 | 15.083 | 35.020 | 50.103 | -23.897 | 74.000 |
| 15960.000 | * | * | * | * | 74.000 |
| 21280.000 | * | * | * | * | 74.000 |
| 26600.000 | * | * | * | * | 74.000 |
| 31920.000 | * | * | * | * | 74.000 |
| 37240.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correction Factor.
5. Correction Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.
7. The emission levels of other frequencies are greater than 10db under the limit and not shown in test report.

Product : 802.11ac Dual Band Access Point
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11n-20BW 14.4Mbps) (5500MHz)

| Frequency MHz | Correction Factor dB | Reading Level dB μ V | Measurement Level dB μ V/m | Margin dB | Limit dB μ V/m |
|------------------------------|----------------------------|--------------------------------|--------------------------------------|--------------|-----------------------|
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 11000.000 | 16.399 | 35.240 | 51.639 | -22.361 | 74.000 |
| 16500.000 | * | * | * | * | 74.000 |
| 22000.000 | * | * | * | * | 74.000 |
| 27500.000 | * | * | * | * | 74.000 |
| 33000.000 | * | * | * | * | 74.000 |
| 38500.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 11000.000 | 17.132 | 34.040 | 51.172 | -22.828 | 74.000 |
| 16500.000 | * | * | * | * | 74.000 |
| 22000.000 | * | * | * | * | 74.000 |
| 27500.000 | * | * | * | * | 74.000 |
| 33000.000 | * | * | * | * | 74.000 |
| 38500.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correction Factor.
5. Correction Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.
7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.

Product : 802.11ac Dual Band Access Point
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11n-20BW 14.4Mbps) (5580MHz)

| Frequency MHz | Correction Factor dB | Reading Level dB μ V | Measurement Level dB μ V/m | Margin dB | Limit dB μ V/m |
|------------------------------|----------------------------|--------------------------------|--------------------------------------|--------------|-----------------------|
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 11160.000 | 16.664 | 35.260 | 51.925 | -22.075 | 74.000 |
| 16740.000 | * | * | * | * | 74.000 |
| 22320.000 | * | * | * | * | 74.000 |
| 27900.000 | * | * | * | * | 74.000 |
| 33480.000 | * | * | * | * | 74.000 |
| 39060.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 11160.000 | 17.643 | 34.860 | 52.503 | -21.497 | 74.000 |
| 16740.000 | * | * | * | * | 74.000 |
| 22320.000 | * | * | * | * | 74.000 |
| 27900.000 | * | * | * | * | 74.000 |
| 33480.000 | * | * | * | * | 74.000 |
| 39060.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correction Factor.
5. Correction Factor = Antenna factor + Cable loss - Amplifier gain.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.
7. The emission levels of other frequencies are greater than 10db under the limit and not shown in test report.

Product : 802.11ac Dual Band Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW 14.4Mbps) (5700MHz)

| Frequency MHz | Correction Factor dB | Reading Level dB μ V | Measurement Level dB μ V/m | Margin dB | Limit dB μ V/m |
|------------------------------|----------------------------|--------------------------------|--------------------------------------|--------------|-----------------------|
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 11400.000 | 16.530 | 35.330 | 51.861 | -22.139 | 74.000 |
| 17100.000 | * | * | * | * | 74.000 |
| 22800.000 | * | * | * | * | 74.000 |
| 28500.000 | * | * | * | * | 74.000 |
| 34200.000 | * | * | * | * | 74.000 |
| 39900.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 11400.000 | 17.138 | 35.080 | 52.218 | -21.782 | 74.000 |
| 17100.000 | * | * | * | * | 74.000 |
| 22800.000 | * | * | * | * | 74.000 |
| 28500.000 | * | * | * | * | 74.000 |
| 34200.000 | * | * | * | * | 74.000 |
| 39900.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correction Factor.
5. Correction Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.
7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.

Product : 802.11ac Dual Band Access Point
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps) (5270MHz)

| Frequency MHz | Correction Factor dB | Reading Level dBμV | Measurement Level dBμV/m | Margin dB | Limit dBμV/m |
|------------------------------|----------------------------|--------------------------|--------------------------------|--------------|-----------------|
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 10540.000 | 14.151 | 34.590 | 48.740 | -25.260 | 74.000 |
| 15810.000 | * | * | * | * | 74.000 |
| 21080.000 | * | * | * | * | 74.000 |
| 26350.000 | * | * | * | * | 74.000 |
| 31620.000 | * | * | * | * | 74.000 |
| 36890.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 10540.000 | 14.829 | 34.350 | 49.178 | -24.822 | 74.000 |
| 15810.000 | * | * | * | * | 74.000 |
| 21080.000 | * | * | * | * | 74.000 |
| 26350.000 | * | * | * | * | 74.000 |
| 31620.000 | * | * | * | * | 74.000 |
| 36890.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correction Factor.
5. Correction Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.
7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.

Product : 802.11ac Dual Band Access Point
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps) (5310MHz)

| Frequency MHz | Correction Factor dB | Reading Level dBµV | Measurement Level dBµV/m | Margin dB | Limit dBµV/m |
|------------------------------|----------------------------|--------------------------|--------------------------------|--------------|-----------------|
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 10620.000 | 14.623 | 34.790 | 49.413 | -24.587 | 74.000 |
| 15930.000 | * | * | * | * | 74.000 |
| 21240.000 | * | * | * | * | 74.000 |
| 26550.000 | * | * | * | * | 74.000 |
| 31860.000 | * | * | * | * | 74.000 |
| 37170.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 10620.000 | 14.970 | 34.580 | 49.550 | -24.450 | 74.000 |
| 15930.000 | * | * | * | * | 74.000 |
| 21240.000 | * | * | * | * | 74.000 |
| 26550.000 | * | * | * | * | 74.000 |
| 31860.000 | * | * | * | * | 74.000 |
| 37170.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correction Factor.
5. Correction Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.
7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.

Product : 802.11ac Dual Band Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps) (5510MHz)

| Frequency MHz | Correction Factor dB | Reading Level dBμV | Measurement Level dBμV/m | Margin dB | Limit dBμV/m |
|------------------------------|----------------------------|--------------------------|--------------------------------|--------------|-----------------|
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 11020.000 | 16.474 | 34.690 | 51.163 | -22.837 | 74.000 |
| 15930.000 | * | * | * | * | 74.000 |
| 21240.000 | * | * | * | * | 74.000 |
| 26550.000 | * | * | * | * | 74.000 |
| 31860.000 | * | * | * | * | 74.000 |
| 37170.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 11020.000 | 17.224 | 34.540 | 51.764 | -22.236 | 74.000 |
| 15930.000 | * | * | * | * | 74.000 |
| 21240.000 | * | * | * | * | 74.000 |
| 26550.000 | * | * | * | * | 74.000 |
| 31860.000 | * | * | * | * | 74.000 |
| 37170.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correction Factor.
5. Correction Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.
7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.

Product : 802.11ac Dual Band Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps) (5550MHz)

| Frequency MHz | Correction Factor dB | Reading Level dB μ V | Measurement Level dB μ V/m | Margin dB | Limit dB μ V/m |
|------------------------------|----------------------------|--------------------------------|--------------------------------------|--------------|-----------------------|
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 11100.000 | 16.681 | 35.090 | 51.771 | -22.229 | 74.000 |
| 15930.000 | * | * | * | * | 74.000 |
| 21240.000 | * | * | * | * | 74.000 |
| 26550.000 | * | * | * | * | 74.000 |
| 31860.000 | * | * | * | * | 74.000 |
| 37170.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 11100.000 | 17.523 | 35.020 | 52.543 | -21.457 | 74.000 |
| 15930.000 | * | * | * | * | 74.000 |
| 21240.000 | * | * | * | * | 74.000 |
| 26550.000 | * | * | * | * | 74.000 |
| 31860.000 | * | * | * | * | 74.000 |
| 37170.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correction Factor.
5. Correction Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.
7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.

Product : 802.11ac Dual Band Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps) (5670MHz)

| Frequency MHz | Correction Factor dB | Reading Level dBμV | Measurement Level dBμV/m | Margin dB | Limit dBμV/m |
|------------------------------|----------------------------|--------------------------|--------------------------------|--------------|-----------------|
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 11340.000 | 16.408 | 35.260 | 51.667 | -22.333 | 74.000 |
| 15930.000 | * | * | * | * | 74.000 |
| 21240.000 | * | * | * | * | 74.000 |
| 26550.000 | * | * | * | * | 74.000 |
| 31860.000 | * | * | * | * | 74.000 |
| 37170.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 11340.000 | 17.167 | 35.110 | 52.277 | -21.723 | 74.000 |
| 15930.000 | * | * | * | * | 74.000 |
| 21240.000 | * | * | * | * | 74.000 |
| 26550.000 | * | * | * | * | 74.000 |
| 31860.000 | * | * | * | * | 74.000 |
| 37170.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correction Factor.
5. Correction Factor = Antenna factor + Cable loss - Amplifier gain.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.
7. The emission levels of other frequencies are greater than 10db under the limit and not shown in test report.

Product : 802.11ac Dual Band Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 6 Transmit (802.11ac-80BW-65Mbps) (5290MHz)

| Frequency MHz | Correction Factor dB | Reading Level dBµV | Measurement Level dBµV/m | Margin dB | Limit dBµV/m |
|------------------------------|----------------------------|--------------------------|--------------------------------|--------------|-----------------|
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 10580.000 | 14.423 | 34.480 | 48.903 | -25.097 | 74.000 |
| 15870.000 | * | * | * | * | 74.000 |
| 21160.000 | * | * | * | * | 74.000 |
| 26450.000 | * | * | * | * | 74.000 |
| 31740.000 | * | * | * | * | 74.000 |
| 37030.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 10580.000 | 14.849 | 34.590 | 49.439 | -24.561 | 74.000 |
| 15870.000 | * | * | * | * | 74.000 |
| 21160.000 | * | * | * | * | 74.000 |
| 26450.000 | * | * | * | * | 74.000 |
| 31740.000 | * | * | * | * | 74.000 |
| 37030.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correction Factor.
5. Correction Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.
7. The emission levels of other frequencies are greater than 10db under the limit and not shown in test report.

Product : 802.11ac Dual Band Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 6 Transmit (802.11ac-80BW-65Mbps) (5530MHz)

| Frequency | Correction | Reading | Measurement | Margin | Limit |
|-----------|------------|------------|--------------|--------|--------------|
| MHz | Factor | Level | Level | dB | dB μ V/m |
| | dB | dB μ V | dB μ V/m | | |

Horizontal

Peak Detector:

| | | | | | |
|-----------|--------|--------|--------|---------|--------|
| 11060.000 | 16.580 | 35.470 | 52.050 | -21.950 | 74.000 |
| 16590.000 | * | * | * | * | 74.000 |
| 22120.000 | * | * | * | * | 74.000 |
| 27650.000 | * | * | * | * | 74.000 |
| 33180.000 | * | * | * | * | 74.000 |
| 38710.000 | * | * | * | * | 74.000 |

Average

Detector:

--

Vertical

Peak Detector:

| | | | | | |
|-----------|--------|--------|--------|---------|--------|
| 11060.000 | 17.375 | 35.360 | 52.735 | -21.265 | 74.000 |
| 16590.000 | * | * | * | * | 74.000 |
| 22120.000 | * | * | * | * | 74.000 |
| 27650.000 | * | * | * | * | 74.000 |
| 33180.000 | | | | | |
| 38710.000 | * | * | * | * | 74.000 |

Average

Detector:

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correction Factor.
5. Correction Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.
7. The emission levels of other frequencies are greater than 10db under the limit and not shown in test report.

Product : 802.11ac Dual Band Access Point
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 6 Transmit (802.11ac-80BW-65Mbps) (5610MHz)

| Frequency MHz | Correction Factor dB | Reading Level dB μ V | Measurement Level dB μ V/m | Margin dB | Limit dB μ V/m |
|------------------------------|----------------------------|--------------------------------|--------------------------------------|--------------|-----------------------|
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 11220.000 | 16.589 | 35.580 | 52.170 | -21.830 | 74.000 |
| 16830.000 | * | * | * | * | 74.000 |
| 22440.000 | * | * | * | * | 74.000 |
| 28050.000 | * | * | * | * | 74.000 |
| 33660.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 11220.000 | 17.620 | 35.490 | 53.110 | -20.890 | 74.000 |
| 11220.000 | * | * | * | * | 74.000 |
| 16830.000 | * | * | * | * | 74.000 |
| 22440.000 | * | * | * | * | 74.000 |
| 28050.000 | * | * | * | * | 74.000 |
| 33660.000 | * | * | * | * | 74.000 |
| Average Detector: | | | | | |
| -- | | | | | |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correction Factor.
5. Correction Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.
7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.

Product : 802.11ac Dual Band Access Point
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5300MHz)

| Frequency MHz | Correction Factor dB | Reading Level dBμV | Measurement Level dBμV/m | Margin dB | Limit dBμV/m |
|----------------------|----------------------------|--------------------------|--------------------------------|--------------|-----------------|
| Horizontal | | | | | |
| Peak Detector | | | | | |
| 287.261 | -4.621 | 32.543 | 27.922 | -18.078 | 46.000 |
| 458.768 | 0.846 | 33.724 | 34.569 | -11.431 | 46.000 |
| 604.971 | 4.781 | 32.703 | 37.483 | -8.517 | 46.000 |
| 728.681 | 3.450 | 32.401 | 35.851 | -10.149 | 46.000 |
| 858.014 | 6.047 | 32.709 | 38.756 | -7.244 | 46.000 |
| 984.536 | 7.688 | 33.805 | 41.493 | -12.507 | 54.000 |
| Vertical | | | | | |
| Peak Detector | | | | | |
| 104.507 | -0.201 | 33.044 | 32.843 | -10.657 | 43.500 |
| 381.449 | -1.656 | 32.080 | 30.424 | -15.576 | 46.000 |
| 543.116 | -0.476 | 34.212 | 33.736 | -12.264 | 46.000 |
| 651.362 | -4.670 | 32.205 | 27.535 | -18.465 | 46.000 |
| 821.464 | 3.378 | 33.864 | 37.243 | -8.757 | 46.000 |
| 967.667 | 8.104 | 32.560 | 40.664 | -13.336 | 54.000 |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correction Factor.
5. Correction Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.
7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : 802.11ac Dual Band Access Point
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) (5580MHz)

| Frequency MHz | Correction Factor dB | Reading Level dBμV | Measurement Level dBμV/m | Margin dB | Limit dBμV/m |
|----------------------|----------------------------|--------------------------|--------------------------------|--------------|-----------------|
| Horizontal | | | | | |
| Peak Detector | | | | | |
| 110.130 | -7.619 | 33.339 | 25.720 | -17.780 | 43.500 |
| 374.420 | -1.202 | 33.011 | 31.809 | -14.191 | 46.000 |
| 512.188 | 1.531 | 33.549 | 35.081 | -10.919 | 46.000 |
| 593.725 | 3.860 | 33.312 | 37.172 | -8.828 | 46.000 |
| 723.058 | 3.493 | 32.420 | 35.913 | -10.087 | 46.000 |
| 880.507 | 6.254 | 32.666 | 38.920 | -7.080 | 46.000 |
| Vertical | | | | | |
| Peak Detector | | | | | |
| 105.913 | -0.261 | 33.212 | 32.951 | -10.549 | 43.500 |
| 389.884 | -3.070 | 32.883 | 29.812 | -16.188 | 46.000 |
| 544.522 | -0.790 | 31.161 | 30.371 | -15.629 | 46.000 |
| 689.319 | 2.525 | 33.055 | 35.580 | -10.420 | 46.000 |
| 813.029 | 3.143 | 32.358 | 35.500 | -10.500 | 46.000 |
| 963.449 | 7.661 | 32.907 | 40.568 | -13.432 | 54.000 |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correction Factor.
5. Correction Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.
7. The emission levels of other frequencies are greater than 10db under the limit and not shown in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : 802.11ac Dual Band Access Point
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW 14.4Mbps) (5300MHz)

| Frequency MHz | Correction Factor dB | Reading Level dB μ V | Measurement Level dB μ V/m | Margin dB | Limit dB μ V/m |
|----------------------|----------------------------|--------------------------------|--------------------------------------|--------------|-----------------------|
| Horizontal | | | | | |
| Peak Detector | | | | | |
| 110.130 | -7.619 | 32.731 | 25.112 | -18.388 | 43.500 |
| 292.884 | -4.019 | 34.071 | 30.052 | -15.948 | 46.000 |
| 465.797 | 0.638 | 33.733 | 34.371 | -11.629 | 46.000 |
| 676.667 | 2.905 | 32.493 | 35.399 | -10.601 | 46.000 |
| 858.014 | 6.047 | 32.261 | 38.308 | -7.692 | 46.000 |
| 984.536 | 7.688 | 32.995 | 40.683 | -13.317 | 54.000 |
| Vertical | | | | | |
| Peak Detector | | | | | |
| 105.913 | -0.261 | 32.935 | 32.674 | -10.826 | 43.500 |
| 380.043 | -1.440 | 32.380 | 30.940 | -15.060 | 46.000 |
| 522.029 | -0.312 | 32.875 | 32.562 | -13.438 | 46.000 |
| 690.725 | 2.504 | 33.112 | 35.616 | -10.384 | 46.000 |
| 842.551 | 3.059 | 32.646 | 35.705 | -10.295 | 46.000 |
| 963.449 | 7.661 | 32.437 | 40.098 | -13.902 | 54.000 |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correction Factor.
5. Correction Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.
7. The emission levels of other frequencies are greater than 10db under the limit and not shown in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : 802.11ac Dual Band Access Point
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW 14.4Mbps) (5580MHz)

| Frequency MHz | Correction Factor dB | Reading Level dB μ V | Measurement Level dB μ V/m | Margin dB | Limit dB μ V/m |
|----------------------|----------------------------|--------------------------------|--------------------------------------|--------------|-----------------------|
| Horizontal | | | | | |
| Peak Detector | | | | | |
| 141.058 | -10.460 | 34.357 | 23.897 | -19.603 | 43.500 |
| 382.855 | -1.143 | 32.818 | 31.675 | -14.325 | 46.000 |
| 495.319 | -0.541 | 33.952 | 33.411 | -12.589 | 46.000 |
| 621.841 | 2.155 | 34.019 | 36.174 | -9.826 | 46.000 |
| 793.348 | 5.193 | 32.324 | 37.516 | -8.484 | 46.000 |
| 932.522 | 6.858 | 32.980 | 39.837 | -6.163 | 46.000 |
| Vertical | | | | | |
| Peak Detector | | | | | |
| 107.319 | -0.308 | 32.469 | 32.161 | -11.339 | 43.500 |
| 381.449 | -1.656 | 33.218 | 31.562 | -14.438 | 46.000 |
| 499.536 | -0.848 | 33.917 | 33.069 | -12.931 | 46.000 |
| 690.725 | 2.504 | 32.680 | 35.184 | -10.816 | 46.000 |
| 814.435 | 3.185 | 33.109 | 36.294 | -9.706 | 46.000 |
| 964.855 | 7.897 | 32.615 | 40.513 | -13.487 | 54.000 |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correction Factor.
5. Correction Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.
7. The emission levels of other frequencies are greater than 10db under the limit and not shown in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : 802.11ac Dual Band Access Point
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps) (5310MHz)

| Frequency MHz | Correction Factor dB | Reading Level dBμV | Measurement Level dBμV/m | Margin dB | Limit dBμV/m |
|----------------------|----------------------------|--------------------------|--------------------------------|--------------|-----------------|
| Horizontal | | | | | |
| Peak Detector | | | | | |
| 105.913 | -6.721 | 32.648 | 25.928 | -17.572 | 43.500 |
| 305.536 | -2.939 | 32.299 | 29.361 | -16.639 | 46.000 |
| 460.174 | 1.425 | 32.169 | 33.595 | -12.405 | 46.000 |
| 604.971 | 4.781 | 31.985 | 36.765 | -9.235 | 46.000 |
| 791.942 | 5.212 | 32.401 | 37.613 | -8.387 | 46.000 |
| 950.797 | 6.682 | 32.242 | 38.924 | -7.076 | 46.000 |
| Vertical | | | | | |
| Peak Detector | | | | | |
| 101.696 | -0.016 | 31.826 | 31.810 | -11.690 | 43.500 |
| 344.899 | -3.084 | 33.573 | 30.489 | -15.511 | 46.000 |
| 460.174 | -3.359 | 32.620 | 29.262 | -16.738 | 46.000 |
| 616.217 | -1.978 | 33.411 | 31.433 | -14.567 | 46.000 |
| 824.275 | 3.474 | 33.390 | 36.864 | -9.136 | 46.000 |
| 969.072 | 8.191 | 32.868 | 41.059 | -12.941 | 54.000 |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correction Factor.
5. Correction Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.
7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : 802.11ac Dual Band Access Point
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps) (5550MHz)

| Frequency MHz | Correction Factor dB | Reading Level dB μ V | Measurement Level dB μ V/m | Margin dB | Limit dB μ V/m |
|----------------------|----------------------------|--------------------------------|--------------------------------------|--------------|-----------------------|
| Horizontal | | | | | |
| Peak Detector | | | | | |
| 104.507 | -6.647 | 32.255 | 25.608 | -17.892 | 43.500 |
| 335.058 | -3.873 | 32.647 | 28.774 | -17.226 | 46.000 |
| 461.580 | 1.526 | 32.058 | 33.584 | -12.416 | 46.000 |
| 606.377 | 4.638 | 32.500 | 37.137 | -8.863 | 46.000 |
| 782.101 | 4.297 | 33.552 | 37.849 | -8.151 | 46.000 |
| 918.464 | 6.388 | 33.730 | 40.118 | -5.882 | 46.000 |

| | | | | | |
|----------------------|--------|--------|--------|---------|--------|
| Vertical | | | | | |
| Peak Detector | | | | | |
| 107.319 | -0.308 | 32.570 | 32.262 | -11.238 | 43.500 |
| 343.493 | -3.321 | 32.937 | 29.616 | -16.384 | 46.000 |
| 499.536 | -0.848 | 32.501 | 31.653 | -14.347 | 46.000 |
| 683.696 | 1.948 | 32.075 | 34.023 | -11.977 | 46.000 |
| 815.841 | 3.224 | 32.465 | 35.689 | -10.311 | 46.000 |
| 969.072 | 8.191 | 31.954 | 40.145 | -13.855 | 54.000 |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correction Factor.
5. Correction Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.
7. The emission levels of other frequencies are greater than 10db under the limit and not shown in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : 802.11ac Dual Band Access Point
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 6 Transmit (802.11ac-80BW-65Mbps) (5290MHz)

| Frequency MHz | Correction Factor dB | Reading Level dBμV | Measurement Level dBμV/m | Margin dB | Limit dBμV/m |
|----------------------|----------------------------|--------------------------|--------------------------------|--------------|-----------------|
| Horizontal | | | | | |
| Peak Detector | | | | | |
| 238.058 | -7.475 | 34.041 | 26.565 | -19.435 | 46.000 |
| 380.043 | -0.966 | 32.983 | 32.017 | -13.983 | 46.000 |
| 548.739 | 3.135 | 32.715 | 35.850 | -10.150 | 46.000 |
| 687.913 | 3.342 | 33.092 | 36.434 | -9.566 | 46.000 |
| 825.681 | 6.260 | 32.519 | 38.779 | -7.221 | 46.000 |
| 926.899 | 6.620 | 34.083 | 40.702 | -5.298 | 46.000 |
| Vertical | | | | | |
| Peak Detector | | | | | |
| 101.696 | -0.016 | 31.891 | 31.875 | -11.625 | 43.500 |
| 374.420 | -2.179 | 32.933 | 30.754 | -15.246 | 46.000 |
| 517.812 | -0.719 | 33.418 | 32.699 | -13.301 | 46.000 |
| 686.507 | 2.371 | 32.313 | 34.684 | -11.316 | 46.000 |
| 818.652 | 3.297 | 32.678 | 35.975 | -10.025 | 46.000 |
| 966.261 | 8.016 | 33.144 | 41.160 | -12.840 | 54.000 |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correction Factor.
5. Correction Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.
7. The emission levels of other frequencies are greater than 10db under the limit and not shown in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : 802.11ac Dual Band Access Point
 Test Item : General Radiated Emission
 Test Site : No.3 OATS
 Test Mode : Mode 6 Transmit (802.11ac-80BW-65Mbps) (5530MHz)

| Frequency MHz | Correction Factor dB | Reading Level dB μ V | Measurement Level dB μ V/m | Margin dB | Limit dB μ V/m |
|----------------------|----------------------------|--------------------------------|--------------------------------------|--------------|-----------------------|
| Horizontal | | | | | |
| Peak Detector | | | | | |
| 111.480 | 2.710 | -80.889 | -78.179 | -24.179 | -54.000 |
| 340.400 | 4.360 | -80.535 | -76.175 | -40.175 | -36.000 |
| 528.580 | 9.890 | -85.060 | -75.170 | -21.170 | -54.000 |
| 660.500 | 9.220 | -84.344 | -75.124 | -21.124 | -54.000 |
| 823.460 | 11.080 | -82.244 | -71.164 | -17.164 | -54.000 |
| 972.840 | 12.320 | -81.937 | -69.617 | -33.617 | -36.000 |
| Vertical | | | | | |
| Peak Detector | | | | | |
| 70.740 | 0.930 | -76.030 | -75.100 | -21.100 | -54.000 |
| 245.340 | 2.220 | -80.909 | -78.689 | -42.689 | -36.000 |
| 443.220 | 7.260 | -80.387 | -73.127 | -37.127 | -36.000 |
| 592.600 | 9.020 | -82.755 | -73.735 | -19.735 | -54.000 |
| 767.200 | 11.100 | -83.622 | -72.522 | -18.522 | -54.000 |
| 972.840 | 13.020 | -81.937 | -68.917 | -32.917 | -36.000 |

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correction Factor.
5. Correction Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.
7. The emission levels of other frequencies are greater then 10db under the limit and not shown in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

6. Band Edge

6.1. Test Equipment

RF Conducted Measurement

The following test equipments are used during the band edge tests:

| | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|---|-------------------|--------------|----------------------|------------|
| | Spectrum Analyzer | R&S | FSP40 / 100170 | Jun., 2015 |
| | Spectrum Analyzer | Agilent | E4407B / US39440758 | Jun., 2015 |
| X | Spectrum Analyzer | Agilent | N9010A / MY48030495 | Apr., 2015 |

Note:

1. All equipment is calibrated once a year or as required by manufacturer.
2. All equipment is calibrated to traceable calibration procedures.
3. The test instruments marked by "X" are used to measure the final test results.

RF Radiated Measurement:

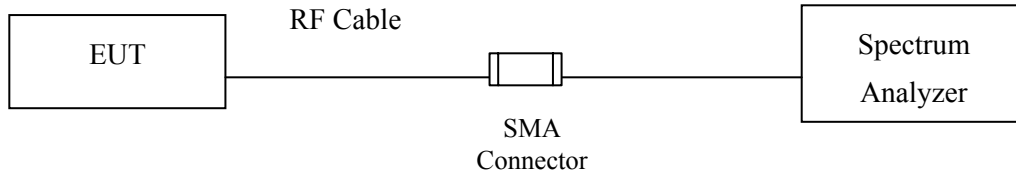
The following test equipments are used during the band edge tests:

| Test Site | | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|-----------|---|-------------------|--------------|-----------------------------|-----------|
| ☒ CB # 8 | X | Spectrum Analyzer | R&S | FSP40/ 100339 | Oct, 2014 |
| | X | Horn Antenna | ETS-Lindgren | 3117/ 35205 | Mar, 2015 |
| | X | Horn Antenna | Schwarzbeck | BBHA9170/209 | Jan, 2015 |
| | X | Horn Antenna | TRC | AH-0801/95051 | Aug, 2015 |
| | X | Pre-Amplifier | EMCI | EMC012630SE/980210 | Jan, 2015 |
| | X | Pre-Amplifier | MITEQ | JS41-001040000-58-5P/153945 | Jul, 2015 |
| | X | Pre-Amplifier | NARDA | DBL-1840N506/013 | Jul, 2015 |

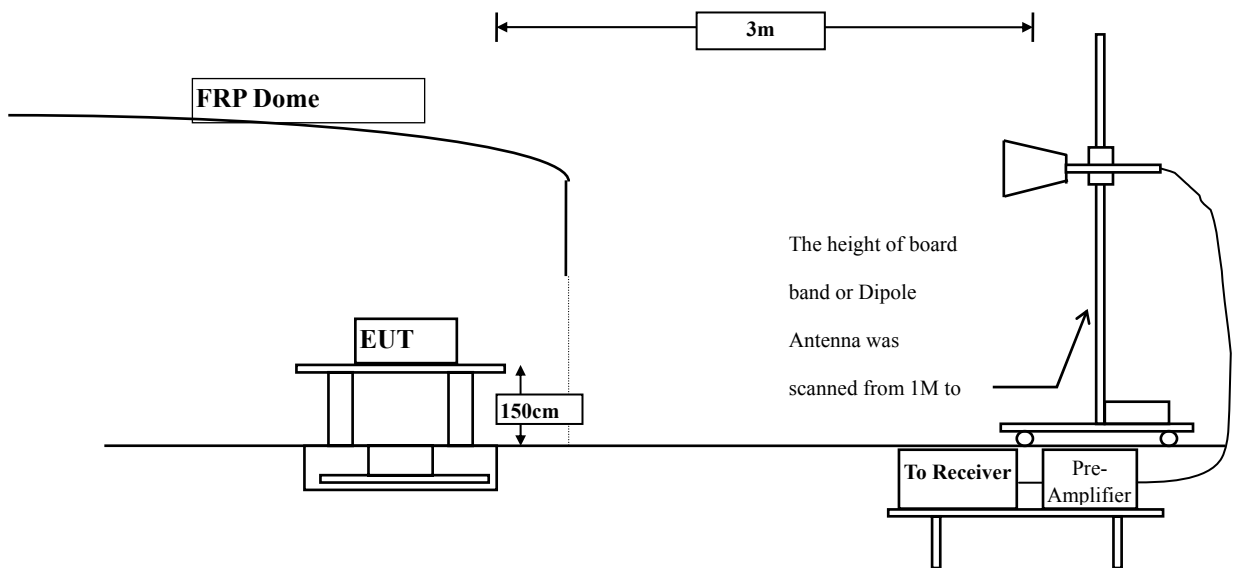
- Note:
1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
 2. The test instruments marked with "X" are used to measure the final test results.

6.2. Test Setup

RF Conducted Measurement:



RF Radiated Measurement:



6.3. Limits

The provisions of Section 15.205 of this part apply to intentional radiators operating under this section.

Radiated emissions which fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209:

| FCC Part 15 Subpart C Paragraph 15.209 Limits | | |
|--|----------|-----------|
| Frequency MHz | uV/m @3m | dBµV/m@3m |
| 30-88 | 100 | 40 |
| 88-216 | 150 | 43.5 |
| 216-960 | 200 | 46 |
| Above 960 | 500 | 54 |

- Remarks :
1. RF Voltage (dBµV) = 20 log RF Voltage (uV)
 2. In the Above Table, the tighter limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

6.4. Test Procedure

The EUT is placed on a turn table which is 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10:2013 on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter is 120 kHz, above 1GHz are 1 MHz.

The EUT was setup to ANSI C63.10, 2013; tested to UNII test procedure of FCC

KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

6.5. Uncertainty

± 3.8 dB below 1GHz

± 3.9 dB above 1GHz

6.6. Test Result of Band Edge

Product : 802.11ac Dual Band Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) -Channel 64 (5320MHz)

RF Radiated Measurement (Horizontal):

| Channel No. | Frequency (MHz) | Correction Factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Peak Limit (dBμV/m) | Average Limit (dBμV/m) | Result |
|--------------|-----------------|------------------------|----------------------|-------------------------|---------------------|------------------------|--------|
| 64 (Peak) | 5324.800 | 3.797 | 109.913 | 113.710 | -- | -- | Pass |
| 64 (Peak) | 5350.000 | 3.716 | 59.998 | 63.715 | 74.00 | 54.00 | Pass |
| 64 (Average) | 5316.000 | 3.824 | 97.330 | 101.155 | -- | -- | Pass |
| 64 (Average) | 5350.000 | 3.716 | 44.631 | 48.348 | 74.00 | 54.00 | Pass |

Figure Channel 64: Horizontal (Peak)

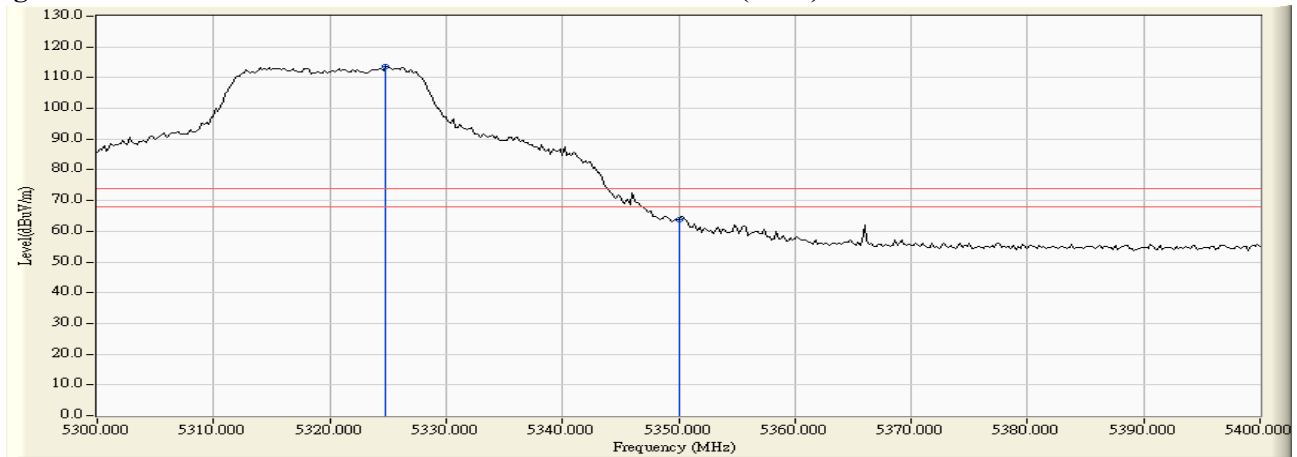
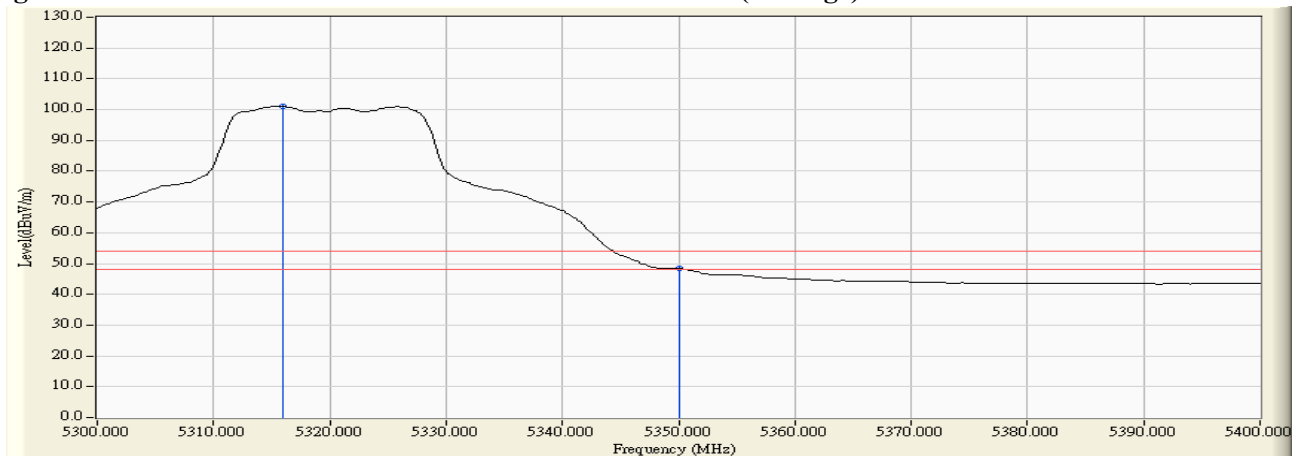


Figure Channel 64: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “*”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correction Factor.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.

Product : 802.11ac Dual Band Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) -Channel 64 (5320MHz)

RF Radiated Measurement (Vertical):

| Channel No. | Frequency (MHz) | Correction Factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Peak Limit (dBμV/m) | Average Limit (dBμV/m) | Result |
|--------------|-----------------|------------------------|----------------------|-------------------------|---------------------|------------------------|--------|
| 64 (Peak) | 5317.600 | 5.732 | 108.653 | 114.385 | -- | -- | Pass |
| 64 (Peak) | 5350.000 | 5.691 | 62.685 | 68.377 | 74.00 | 54.00 | Pass |
| 64 (Peak) | 5356.400 | 5.682 | 63.186 | 68.869 | 74.00 | 54.00 | Pass |
| 64 (Average) | 5317.400 | 5.732 | 97.273 | 103.005 | -- | -- | Pass |
| 64 (Average) | 5350.000 | 5.691 | 45.116 | 50.808 | 74.00 | 54.00 | Pass |

Figure Channel 64: Vertical (Peak)

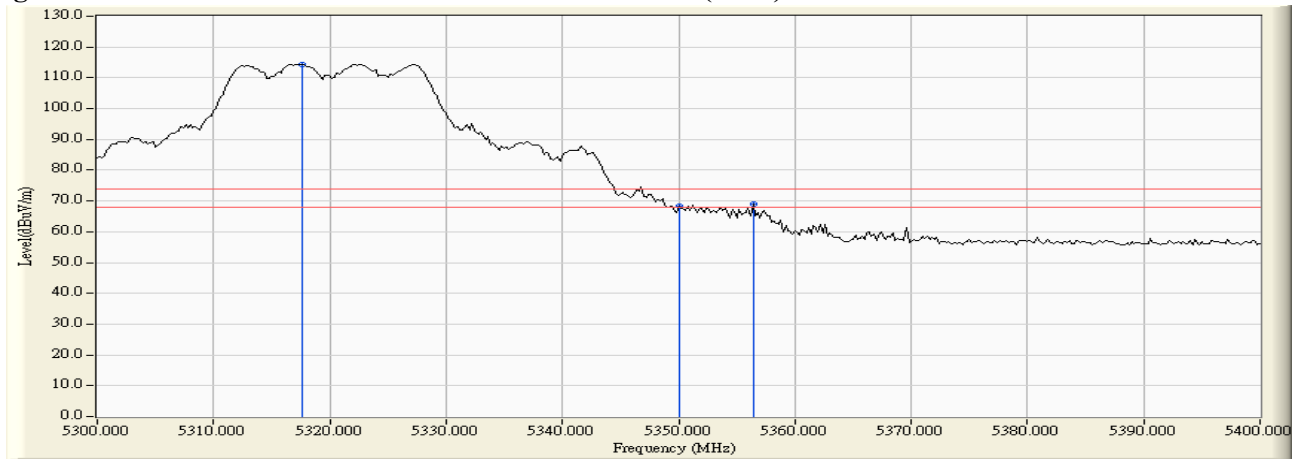
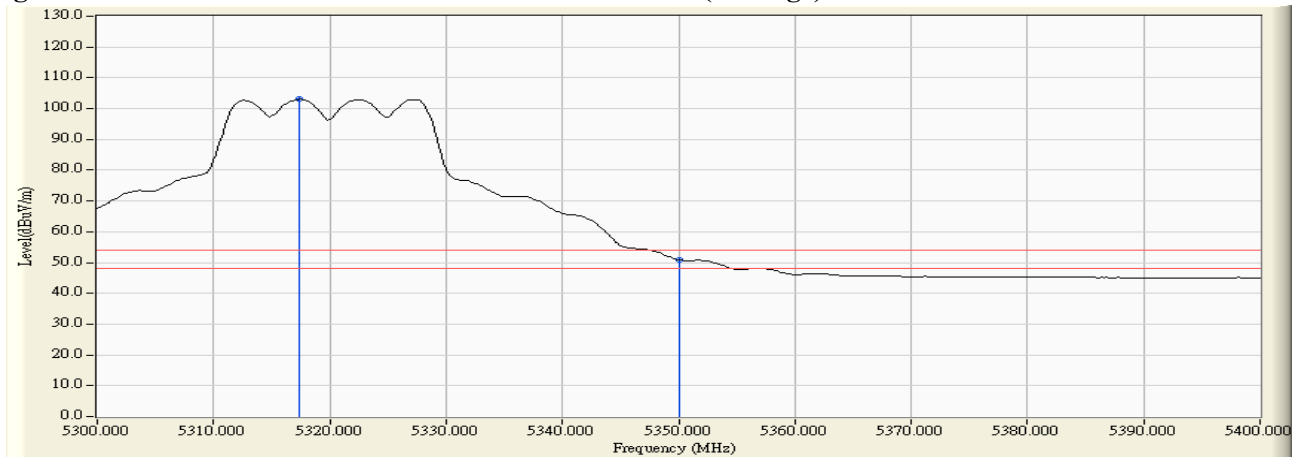


Figure Channel 64: Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correction Factor.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.

Product : 802.11ac Dual Band Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) -Channel 100 (5500MHz)

RF Radiated Measurement (Horizontal):

| Channel No. | Frequency (MHz) | Correction Factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Peak Limit (dBμV/m) | Average Limit (dBμV/m) | Result |
|---------------|-----------------|------------------------|----------------------|-------------------------|---------------------|------------------------|--------|
| 100 (Peak) | 5459.200 | 4.343 | 55.805 | 60.148 | 74.00 | 54.00 | Pass |
| 100 (Peak) | 5460.000 | 4.354 | 53.953 | 58.307 | 74.00 | 54.00 | Pass |
| 100 (Peak) | 5495.800 | 4.786 | 108.865 | 113.650 | -- | -- | Pass |
| 100 (Average) | 5460.000 | 4.354 | 41.254 | 45.608 | 74.00 | 54.00 | Pass |
| 100 (Average) | 5505.200 | 4.847 | 96.314 | 101.161 | -- | -- | Pass |

Figure Channel 100: Horizontal (Peak)

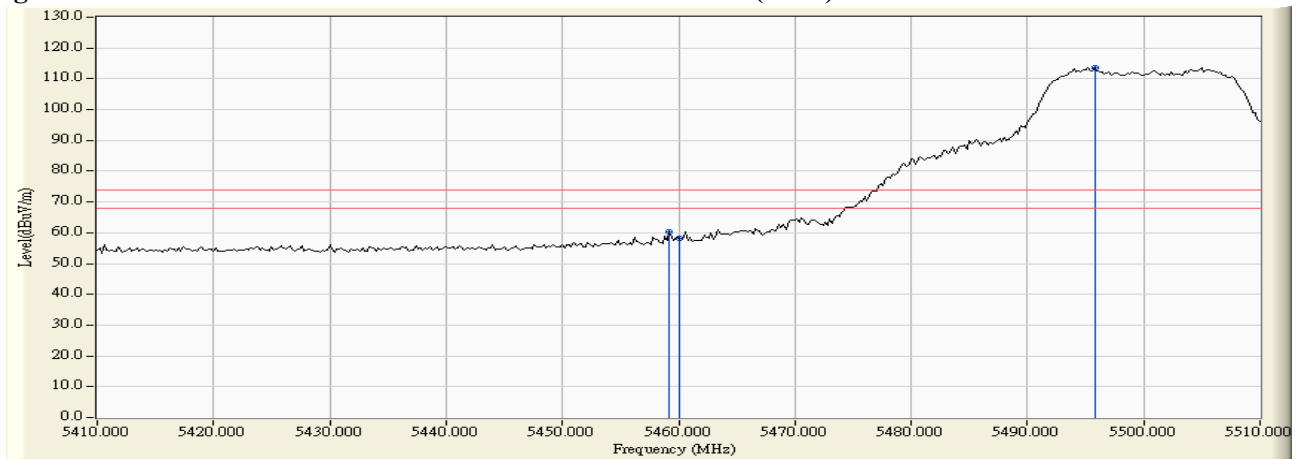
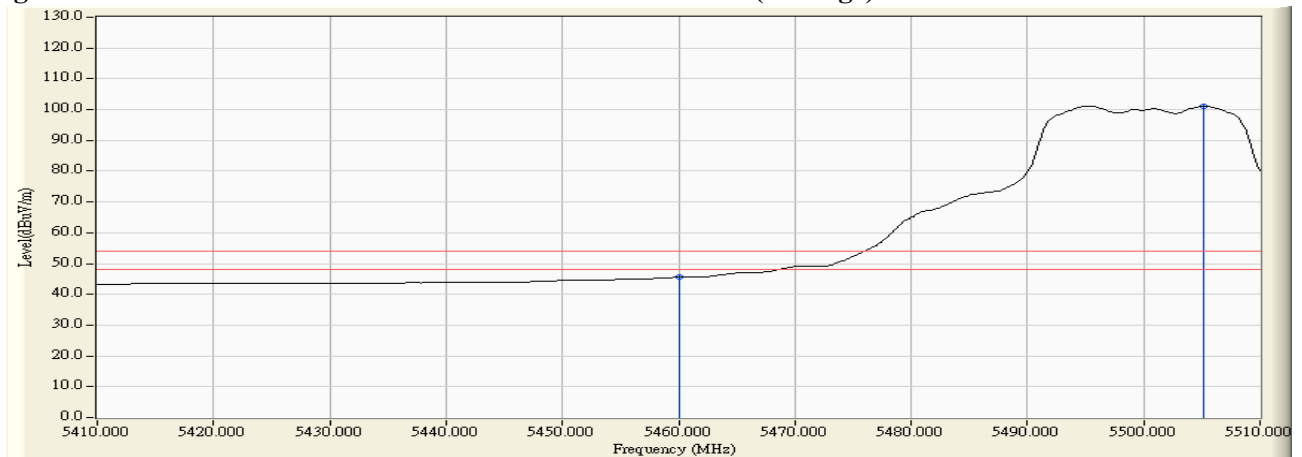


Figure Channel 100: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correction Factor.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.

Product : 802.11ac Dual Band Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) -Channel 100 (5500MHz)

RF Radiated Measurement (Vertical):

| Channel No. | Frequency (MHz) | Correction Factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Peak Limit (dBμV/m) | Average Limit (dBμV/m) | Result |
|---------------|-----------------|------------------------|----------------------|-------------------------|---------------------|------------------------|--------|
| 100 (Peak) | 5458.000 | 6.027 | 54.574 | 60.601 | 74.00 | 54.00 | Pass |
| 100 (Peak) | 5460.000 | 6.041 | 52.193 | 58.234 | 74.00 | 54.00 | Pass |
| 100 (Peak) | 5503.800 | 6.287 | 106.369 | 112.655 | -- | -- | Pass |
| 100 (Average) | 5460.000 | 6.041 | 40.288 | 46.329 | 74.00 | 54.00 | Pass |
| 100 (Average) | 5493.400 | 6.255 | 94.828 | 101.083 | -- | -- | Pass |

Figure Channel 100: Vertical (Peak)

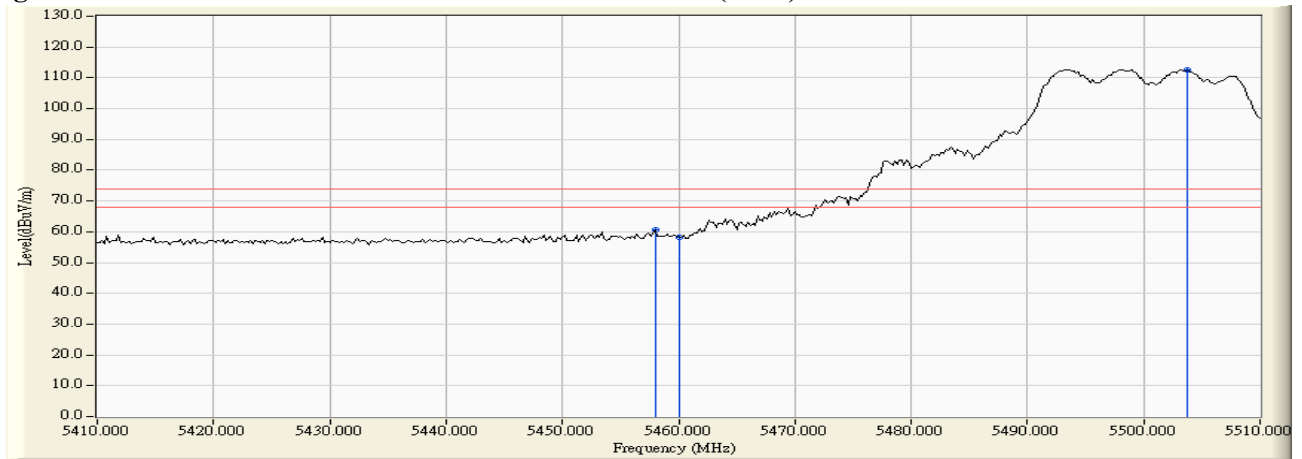
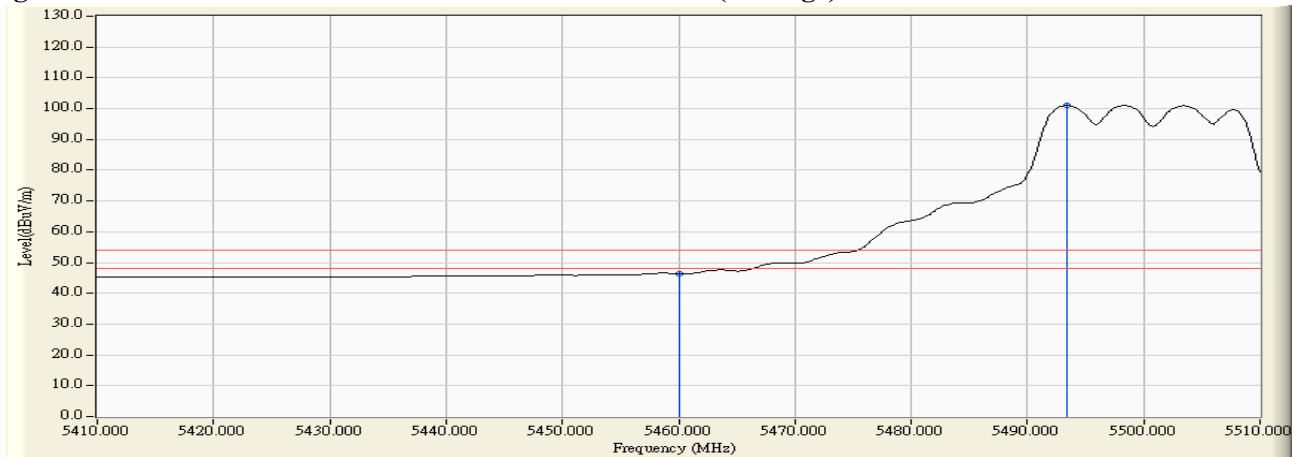


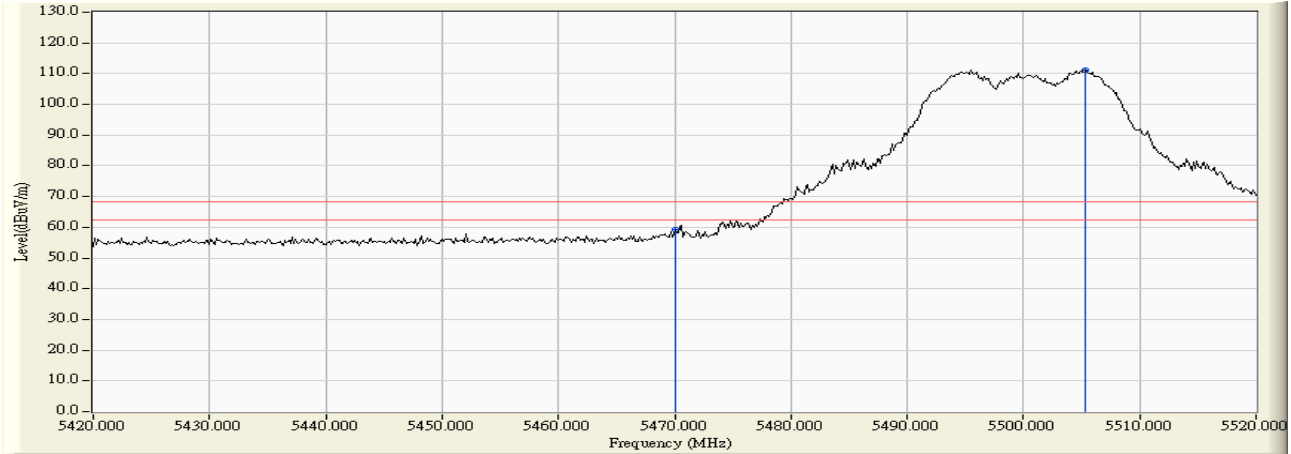
Figure Channel 100: Vertical (Average)



Note:

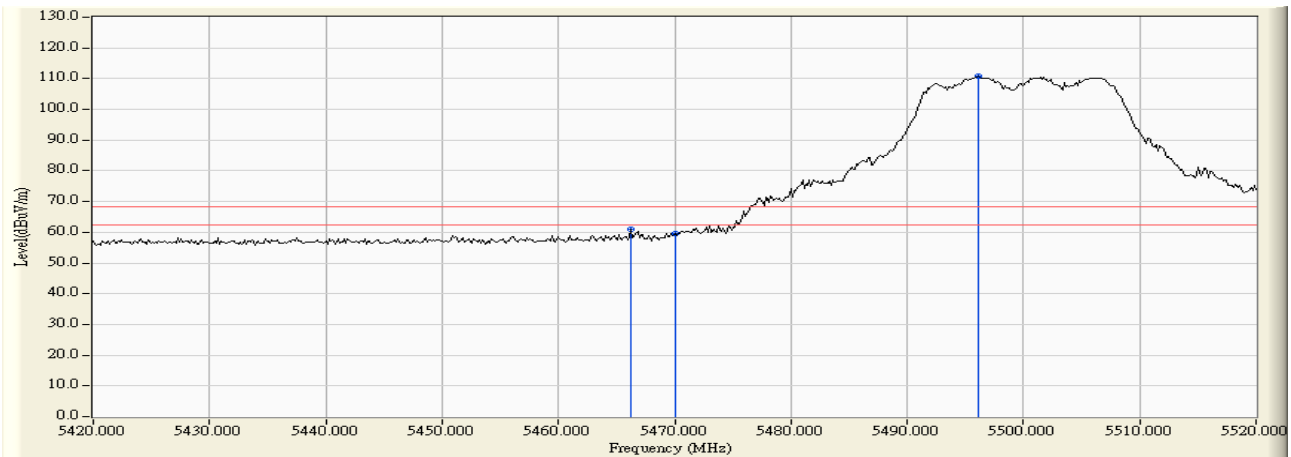
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correction Factor.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.

Product : 802.11ac Dual Band Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) -Channel 100 (5500MHz)



RF Radiated Measurement:

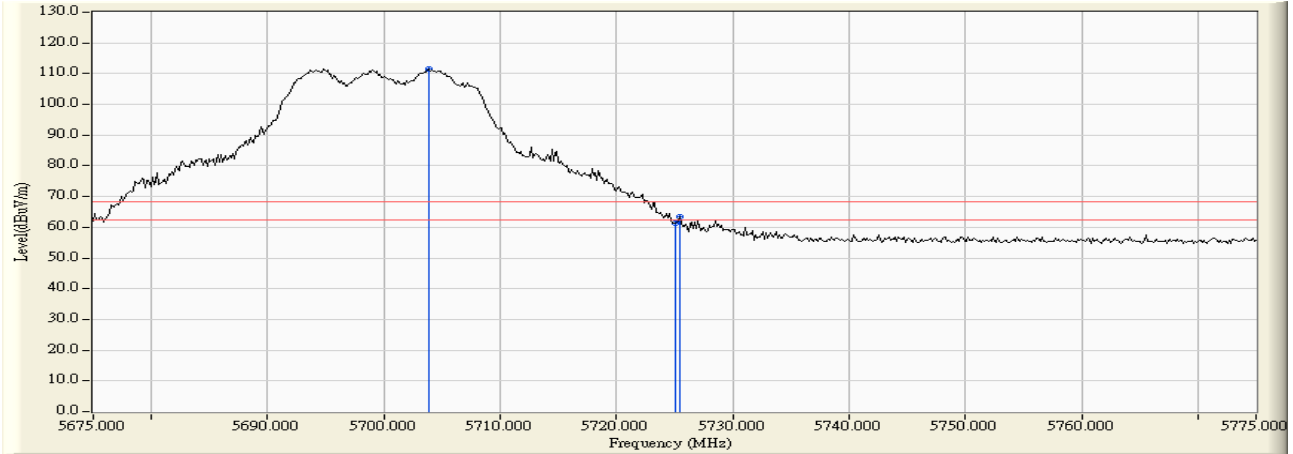
| | Frequency (MHz) | Correction Factor (dB) | Reading Level (dBm) | Measure Level (dBm/m) | Margin (dB) | Limit (dBm/m) | Result |
|------------|-----------------|------------------------|---------------------|-----------------------|-------------|---------------|--------|
| Horizontal | 5470.000 | 4.488 | 54.769 | 59.257 | -8.963 | 68.220 | Pass |
| Horizontal | 5505.362 | 4.846 | 106.463 | 111.309 | 43.089 | 68.220 | Pass |



RF Radiated Measurement:

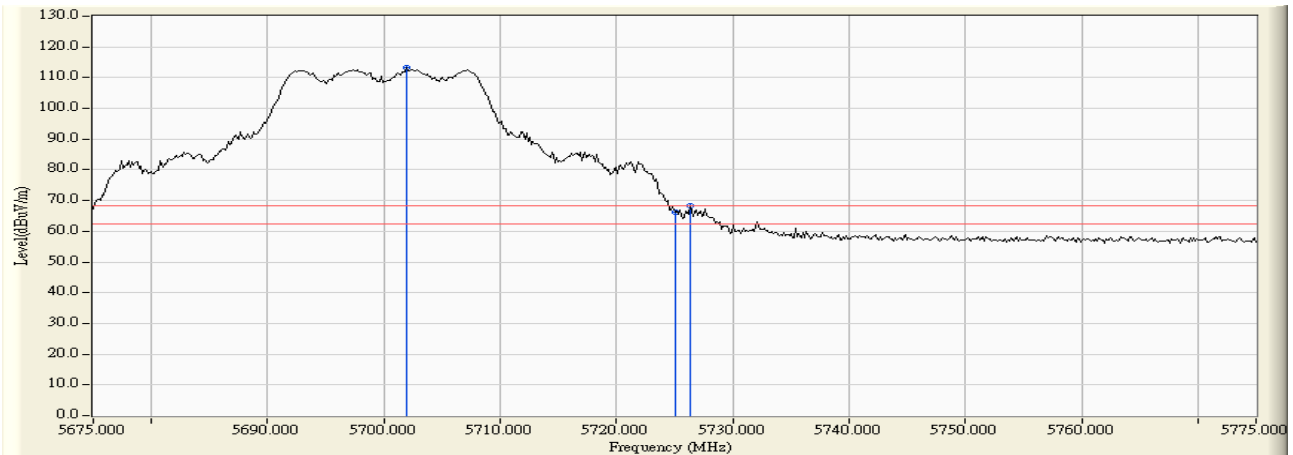
| | Frequency (MHz) | Correction Factor (dB) | Reading Level (dBm) | Measure Level (dBm/m) | Margin (dB) | Limit (dBm/m) | Result |
|----------|-----------------|------------------------|---------------------|-----------------------|-------------|---------------|--------|
| Vertical | 5466.232 | 6.085 | 54.933 | 61.018 | -7.202 | 68.220 | Pass |
| Vertical | 5470.000 | 6.112 | 53.358 | 59.469 | -8.751 | 68.220 | Pass |
| Vertical | 5496.087 | 6.263 | 104.702 | 110.965 | 42.745 | 68.220 | Pass |

Product : 802.11ac Dual Band Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps) -Channel 140 (5700MHz)



RF Radiated Measurement:

| | Frequency (MHz) | Correction Factor (dB) | Reading Level (dBm) | Measure Level (dBm/m) | Margin (dB) | Limit (dBm/m) | Result |
|------------|-----------------|------------------------|---------------------|-----------------------|-------------|---------------|--------|
| Horizontal | 5703.841 | 4.637 | 106.973 | 111.610 | 43.390 | 68.220 | Pass |
| Horizontal | 5725.000 | 4.654 | 56.725 | 61.379 | -6.841 | 68.220 | Pass |
| Horizontal | 5725.435 | 4.654 | 58.936 | 63.590 | -4.630 | 68.220 | Pass |



RF Radiated Measurement:

| | Frequency (MHz) | Correction Factor (dB) | Reading Level (dBm) | Measure Level (dBm/m) | Margin (dB) | Limit (dBm/m) | Result |
|----------|-----------------|------------------------|---------------------|-----------------------|-------------|---------------|--------|
| Vertical | 5701.957 | 5.985 | 107.113 | 113.098 | 44.878 | 68.220 | Pass |
| Vertical | 5725.000 | 5.992 | 60.067 | 66.060 | -2.160 | 68.220 | Pass |
| Vertical | 5726.304 | 5.992 | 62.165 | 68.157 | -0.063 | 68.220 | Pass |

Product : 802.11ac Dual Band Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW 14.4Mbps) -Channel 64 (5320MHz)

RF Radiated Measurement (Horizontal):

| Channel No. | Frequency (MHz) | Correction Factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Peak Limit (dBμV/m) | Average Limit (dBμV/m) | Result |
|--------------|-----------------|------------------------|----------------------|-------------------------|---------------------|------------------------|--------|
| 64 (Peak) | 5314.000 | 3.832 | 109.199 | 113.031 | -- | -- | Pass |
| 64 (Peak) | 5350.000 | 3.716 | 60.176 | 63.893 | 74.00 | 54.00 | Pass |
| 64 (Peak) | 5351.400 | 3.712 | 61.405 | 65.117 | 74.00 | 54.00 | Pass |
| 64 (Average) | 5312.000 | 3.838 | 96.621 | 100.459 | -- | -- | Pass |
| 64 (Average) | 5350.000 | 3.716 | 45.101 | 48.818 | 74.00 | 54.00 | Pass |

Figure Channel 64: Horizontal (Peak)

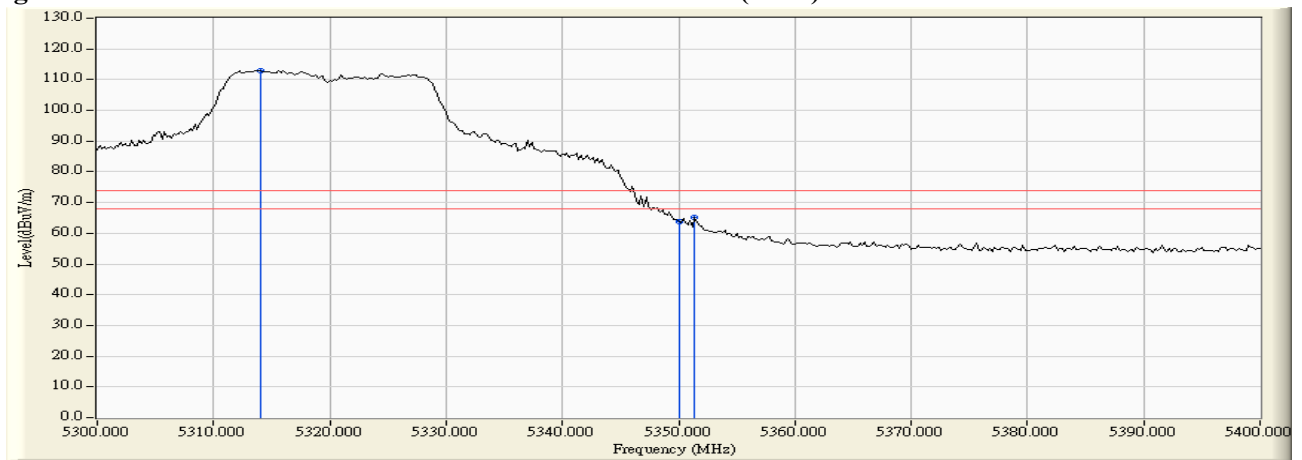
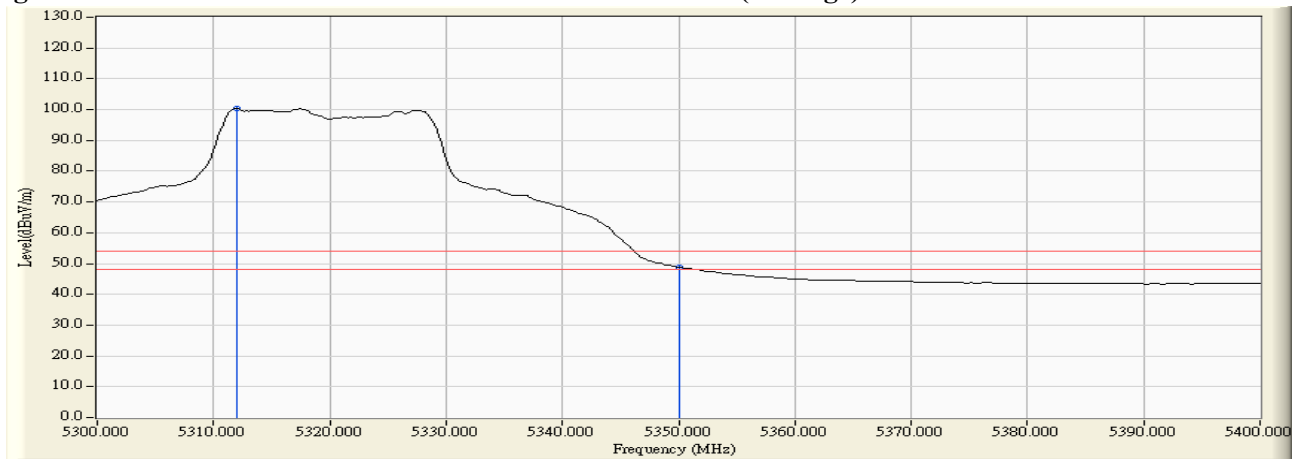


Figure Channel 64: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correction Factor.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.

Product : 802.11ac Dual Band Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW 14.4Mbps) -Channel 64 (5320MHz)

RF Radiated Measurement (Vertical):

| Channel No. | Frequency (MHz) | Correction Factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Peak Limit (dBμV/m) | Average Limit (dBμV/m) | Result |
|--------------|-----------------|------------------------|----------------------|-------------------------|---------------------|------------------------|--------|
| 64 (Peak) | 5327.400 | 5.720 | 108.492 | 114.212 | -- | -- | Pass |
| 64 (Peak) | 5350.000 | 5.691 | 63.661 | 69.353 | 74.00 | 54.00 | Pass |
| 64 (Average) | 5327.200 | 5.720 | 97.233 | 102.953 | -- | -- | Pass |
| 64 (Average) | 5350.000 | 5.691 | 47.624 | 53.316 | 74.00 | 54.00 | Pass |

Figure Channel 64: Vertical (Peak)

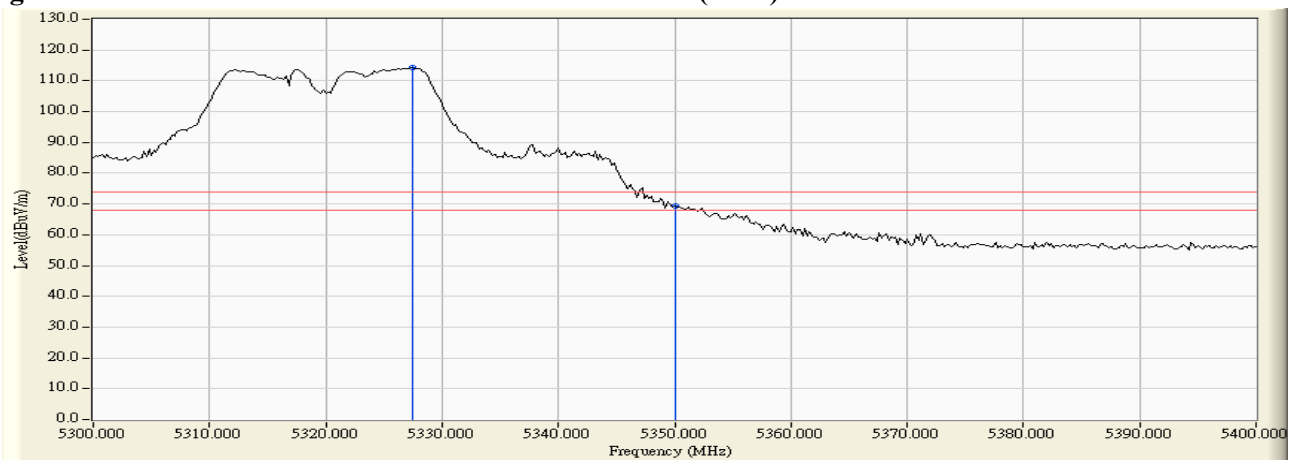
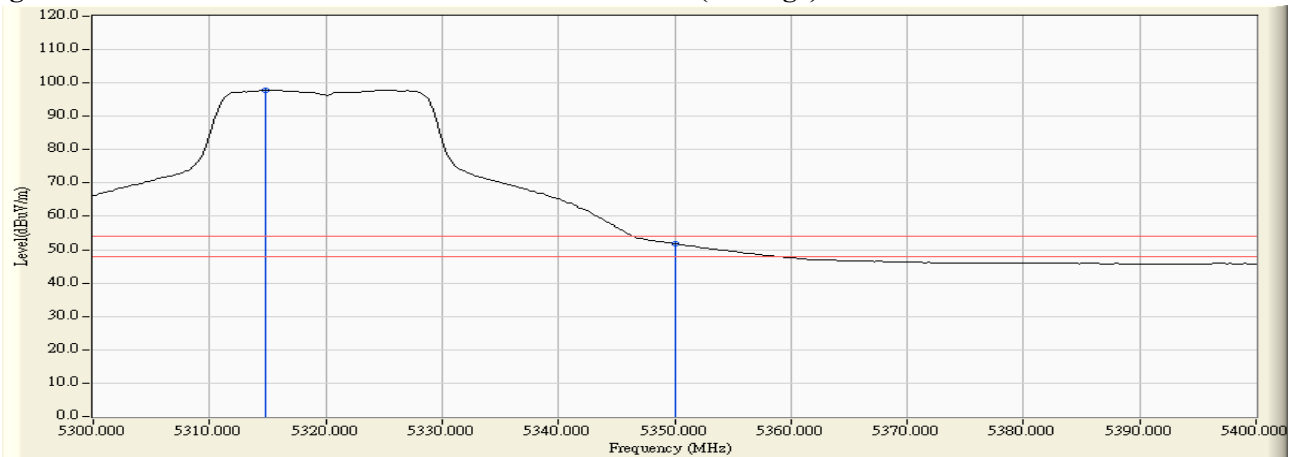


Figure Channel 64: Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correction Factor.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.

Product : 802.11ac Dual Band Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW 14.4Mbps) -Channel 100 (5500MHz)

RF Radiated Measurement (Horizontal):

| Channel No. | Frequency (MHz) | Correction Factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Peak Limit (dBμV/m) | Average Limit (dBμV/m) | Result |
|---------------|-----------------|------------------------|----------------------|-------------------------|---------------------|------------------------|--------|
| 100 (Peak) | 5456.400 | 4.305 | 57.918 | 62.224 | 74.00 | 54.00 | Pass |
| 100 (Peak) | 5460.000 | 4.354 | 54.675 | 59.029 | 74.00 | 54.00 | Pass |
| 100 (Peak) | 5497.000 | 4.794 | 107.826 | 112.620 | -- | -- | Pass |
| 100 (Average) | 5460.000 | 4.354 | 41.993 | 46.347 | 74.00 | 54.00 | Pass |
| 100 (Average) | 5498.800 | 4.806 | 95.846 | 100.652 | -- | -- | Pass |

Figure Channel 100: Horizontal (Peak)

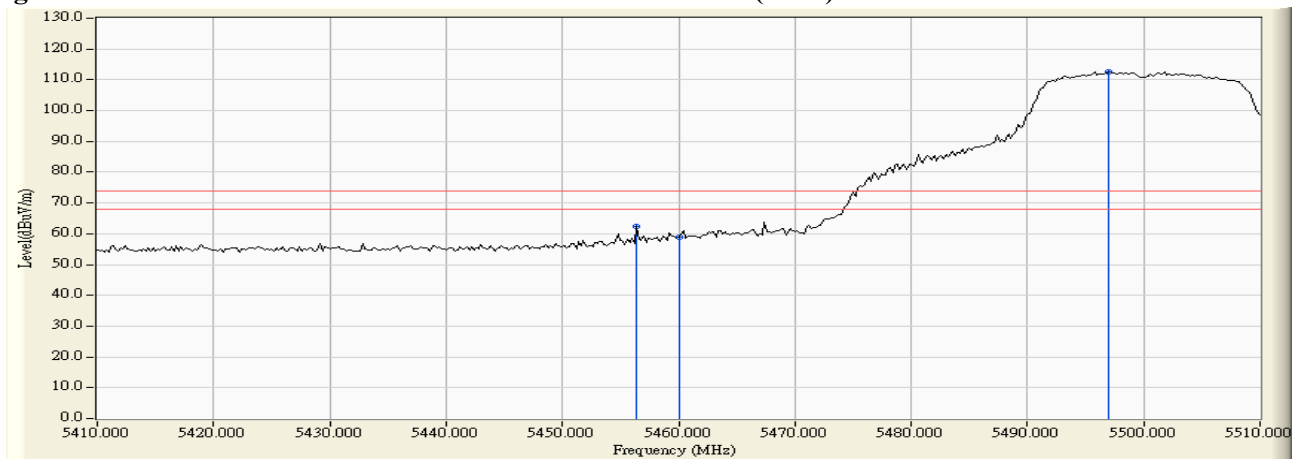
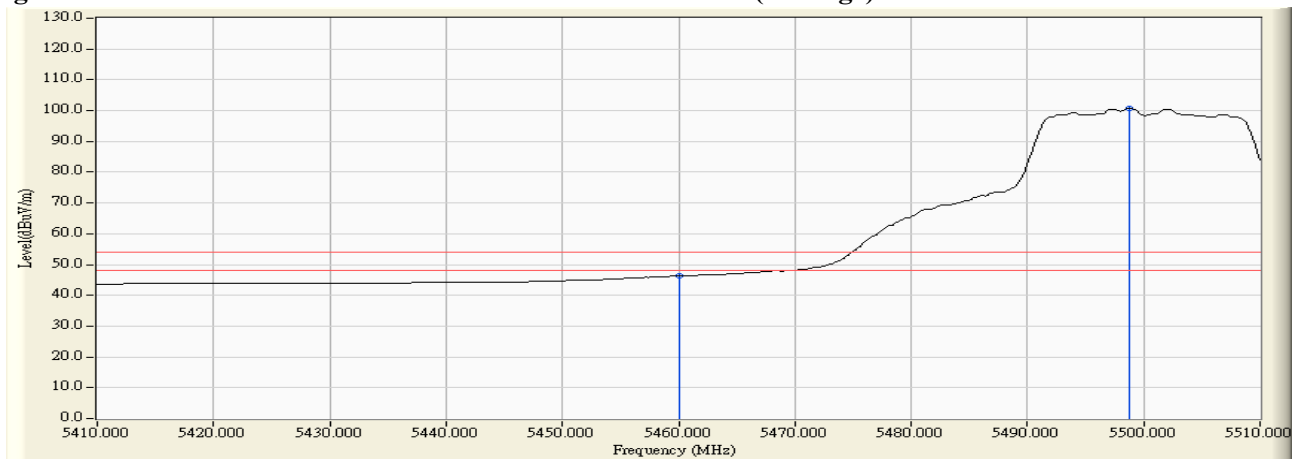


Figure Channel 100: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correction Factor.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.

Product : 802.11ac Dual Band Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW 14.4Mbps) -Channel 100 (5500MHz)

RF Radiated Measurement (Vertical):

| Channel No. | Frequency (MHz) | Correction Factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Peak Limit (dBμV/m) | Average Limit (dBμV/m) | Result |
|---------------|-----------------|------------------------|----------------------|-------------------------|---------------------|------------------------|--------|
| 100 (Peak) | 5456.800 | 6.018 | 54.347 | 60.365 | 74.00 | 54.00 | Pass |
| 100 (Peak) | 5460.000 | 6.041 | 52.856 | 58.897 | 74.00 | 54.00 | Pass |
| 100 (Peak) | 5494.600 | 6.259 | 106.952 | 113.211 | -- | -- | Pass |
| 100 (Average) | 5460.000 | 6.041 | 40.264 | 46.305 | 74.00 | 54.00 | Pass |
| 100 (Average) | 5492.400 | 6.252 | 94.761 | 101.013 | -- | -- | Pass |

Figure Channel 100: Vertical (Peak)

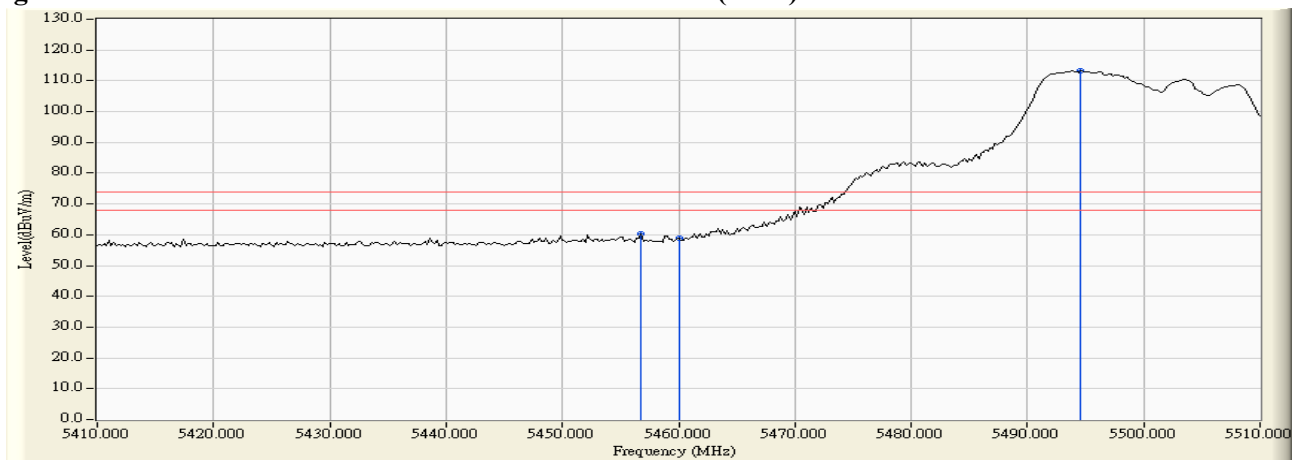
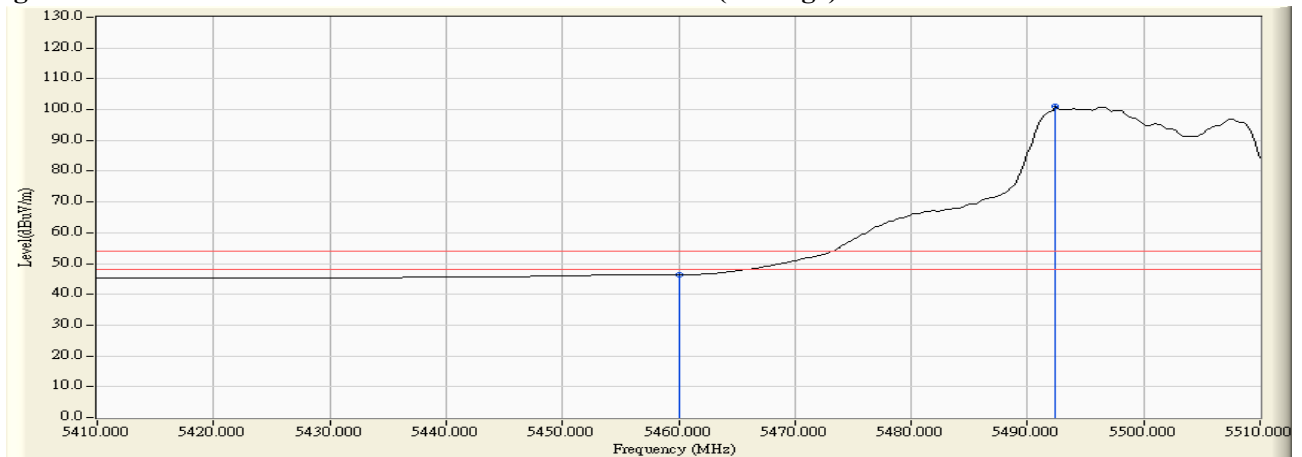


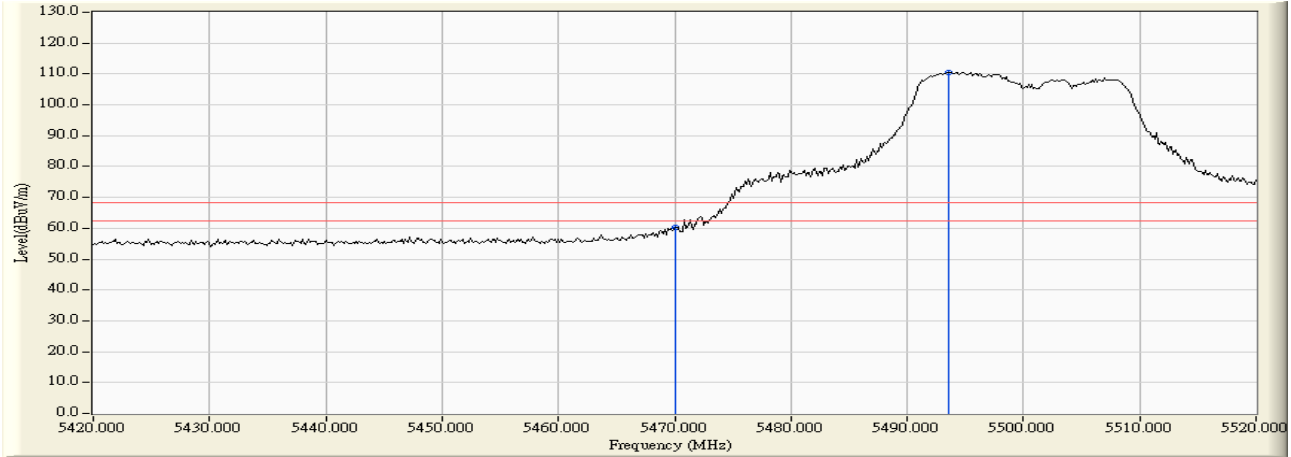
Figure Channel 100: Vertical (Average)



Note:

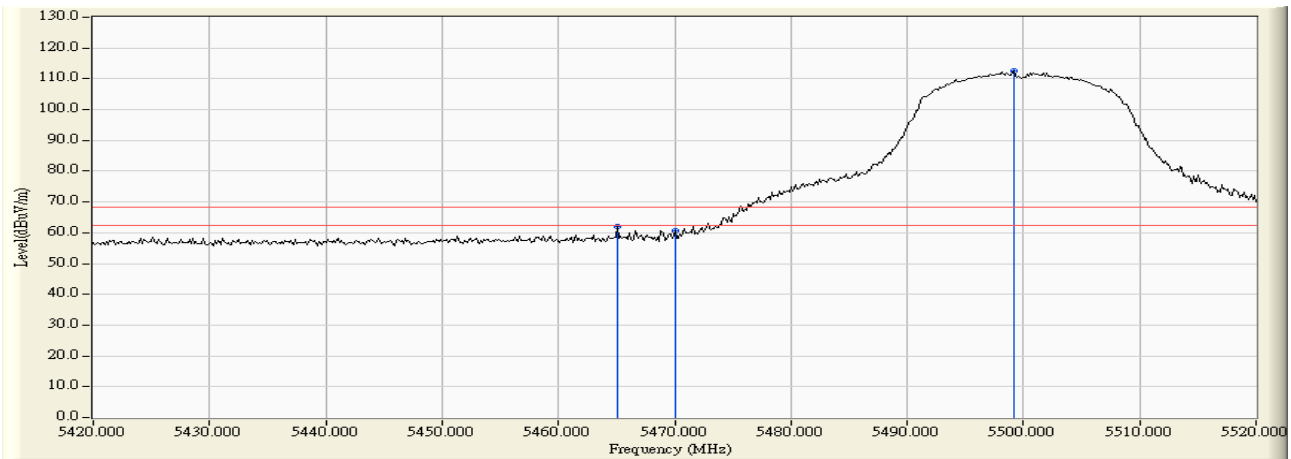
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correction Factor.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.

Product : 802.11ac Dual Band Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW 14.4Mbps) -Channel 100 (5500MHz)



RF Radiated Measurement:

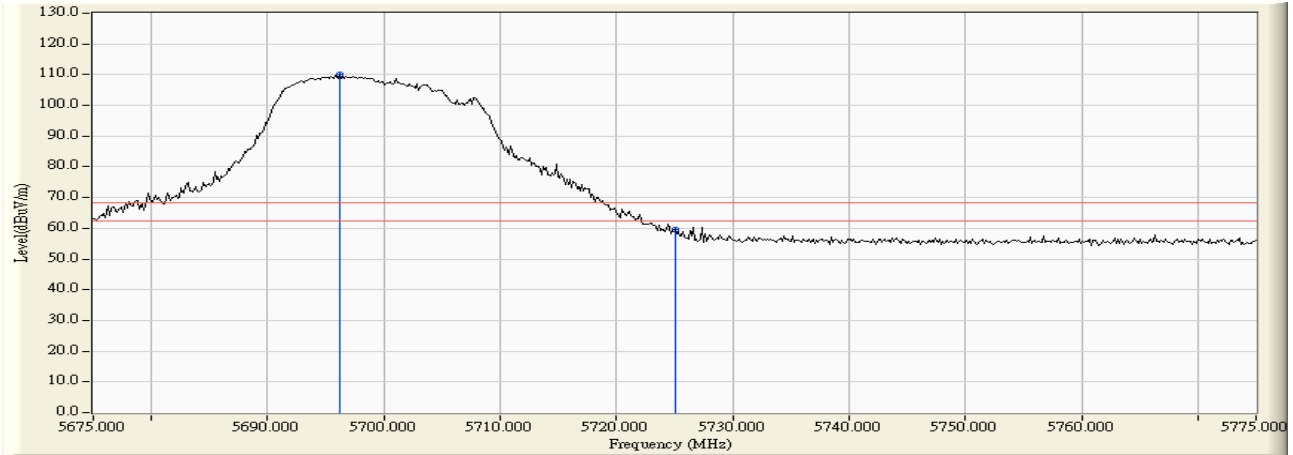
| | Frequency (MHz) | Correction Factor (dB) | Reading Level (dBm) | Measure Level (dBm/m) | Margin (dB) | Limit (dBm/m) | Result |
|------------|-----------------|------------------------|---------------------|-----------------------|-------------|---------------|--------|
| Horizontal | 5470.000 | 4.488 | 55.805 | 60.293 | -7.927 | 68.220 | Pass |
| Horizontal | 5493.623 | 4.771 | 105.878 | 110.648 | 42.428 | 68.220 | Pass |



RF Radiated Measurement:

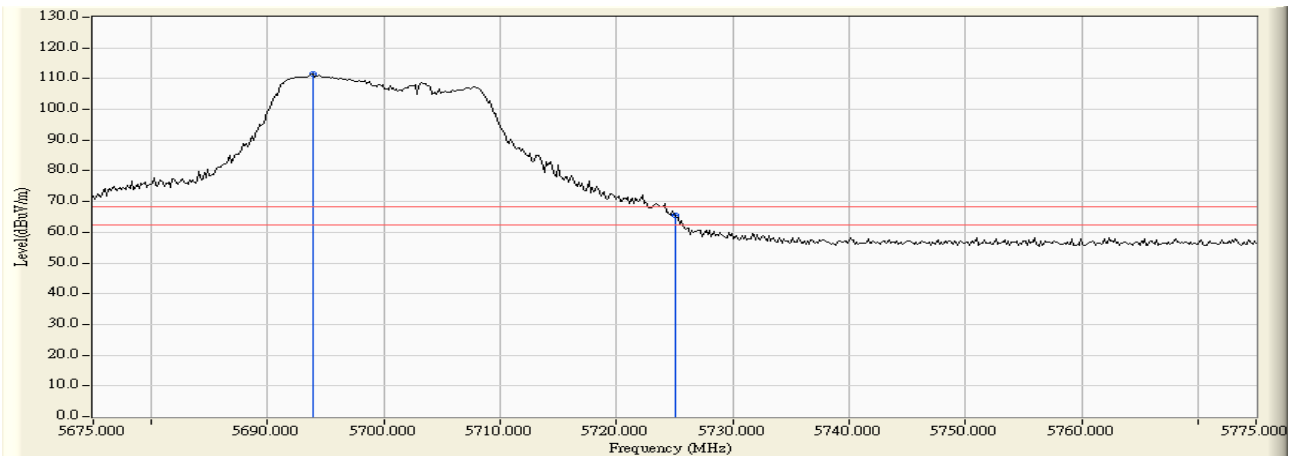
| | Frequency (MHz) | Correction Factor (dB) | Reading Level (dBm) | Measure Level (dBm/m) | Margin (dB) | Limit (dBm/m) | Result |
|----------|-----------------|------------------------|---------------------|-----------------------|-------------|---------------|--------|
| Vertical | 5465.072 | 6.076 | 55.822 | 61.898 | -6.322 | 68.220 | Pass |
| Vertical | 5470.000 | 6.112 | 54.385 | 60.496 | -7.724 | 68.220 | Pass |
| Vertical | 5499.130 | 6.273 | 106.286 | 112.558 | 44.338 | 68.220 | Pass |

Product : 802.11ac Dual Band Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW 14.4Mbps) -Channel 140 (5700MHz)



RF Radiated Measurement:

| | Frequency (MHz) | Correction Factor (dB) | Reading Level (dBm) | Measure Level (dBm/m) | Margin (dB) | Limit (dBm/m) | Result |
|------------|-----------------|------------------------|---------------------|-----------------------|-------------|---------------|--------|
| Horizontal | 5696.159 | 4.617 | 105.468 | 110.085 | 41.865 | 68.220 | Pass |
| Horizontal | 5725.000 | 4.654 | 55.004 | 59.658 | -8.562 | 68.220 | Pass |



RF Radiated Measurement:

| | Frequency (MHz) | Correction Factor (dB) | Reading Level (dBm) | Measure Level (dBm/m) | Margin (dB) | Limit (dBm/m) | Result |
|----------|-----------------|------------------------|---------------------|-----------------------|-------------|---------------|--------|
| Vertical | 5693.841 | 5.974 | 105.395 | 111.369 | 43.149 | 68.220 | Pass |
| Vertical | 5725.000 | 5.992 | 59.591 | 65.584 | -2.636 | 68.220 | Pass |

Product : 802.11ac Dual Band Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps) -Channel 62 (5310MHz)

RF Radiated Measurement (Horizontal):

| Channel No. | Frequency (MHz) | Correction Factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Peak Limit (dBμV/m) | Average Limit (dBμV/m) | Result |
|--------------|-----------------|------------------------|----------------------|-------------------------|---------------------|------------------------|--------|
| 62 (Peak) | 5321.400 | 3.809 | 102.052 | 105.860 | -- | -- | Pass |
| 62 (Peak) | 5350.000 | 3.716 | 65.459 | 69.176 | 74.00 | 54.00 | Pass |
| 62 (Peak) | 5351.800 | 3.710 | 66.568 | 70.279 | 74.00 | 54.00 | Pass |
| 62 (Average) | 5303.000 | 3.868 | 87.862 | 91.729 | -- | -- | Pass |
| 62 (Average) | 5350.000 | 3.716 | 49.829 | 53.546 | 74.00 | 54.00 | Pass |

Figure Channel 62: Horizontal (Peak)

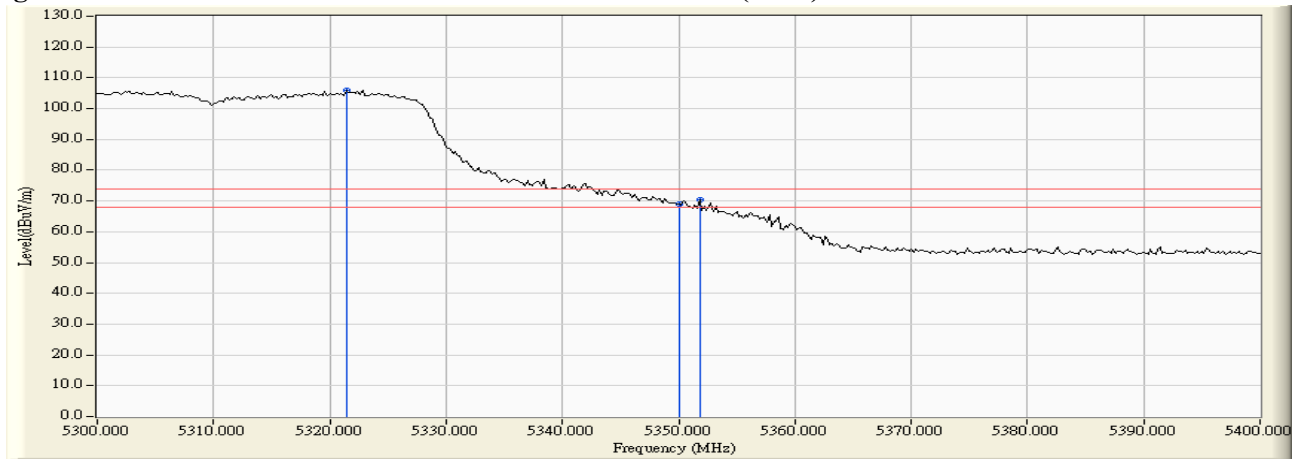
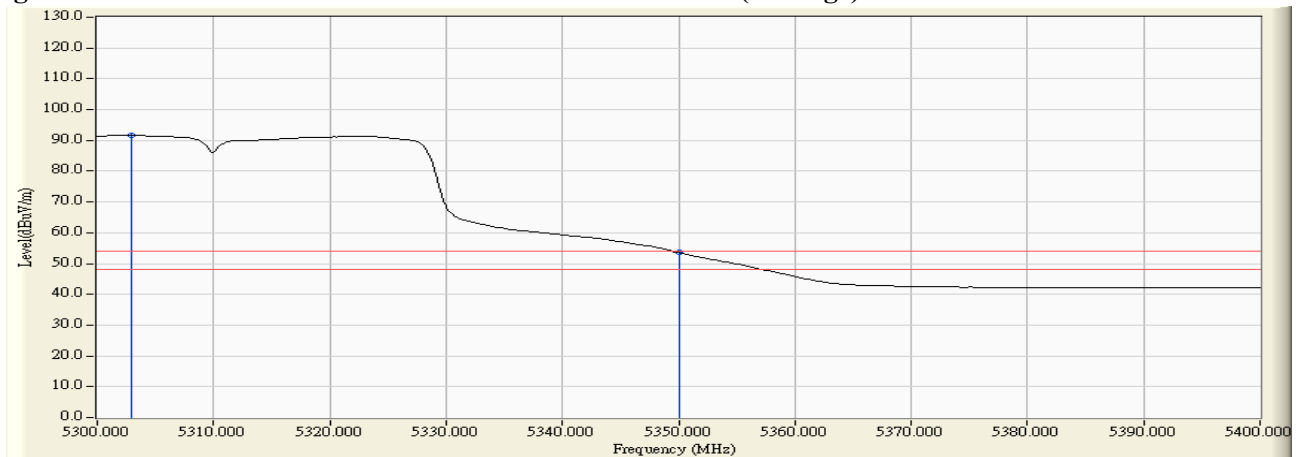


Figure Channel 62: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correction Factor.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.

Product : 802.11ac Dual Band Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps) -Channel 62 (5310MHz)

RF Radiated Measurement (Vertical):

| Channel No. | Frequency (MHz) | Correction Factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Peak Limit (dBμV/m) | Average Limit (dBμV/m) | Result |
|--------------|-----------------|------------------------|----------------------|-------------------------|---------------------|------------------------|--------|
| 62 (Peak) | 5321.200 | 5.728 | 101.792 | 107.520 | -- | -- | Pass |
| 62 (Peak) | 5350.000 | 5.691 | 63.284 | 68.976 | 74.00 | 54.00 | Pass |
| 62 (Peak) | 5351.200 | 5.690 | 64.030 | 69.720 | 74.00 | 54.00 | Pass |
| 62 (Average) | 5321.400 | 5.728 | 86.609 | 92.336 | -- | -- | Pass |
| 62 (Average) | 5350.000 | 5.691 | 46.311 | 52.003 | 74.00 | 54.00 | Pass |

Figure Channel 62: Vertical (Peak)

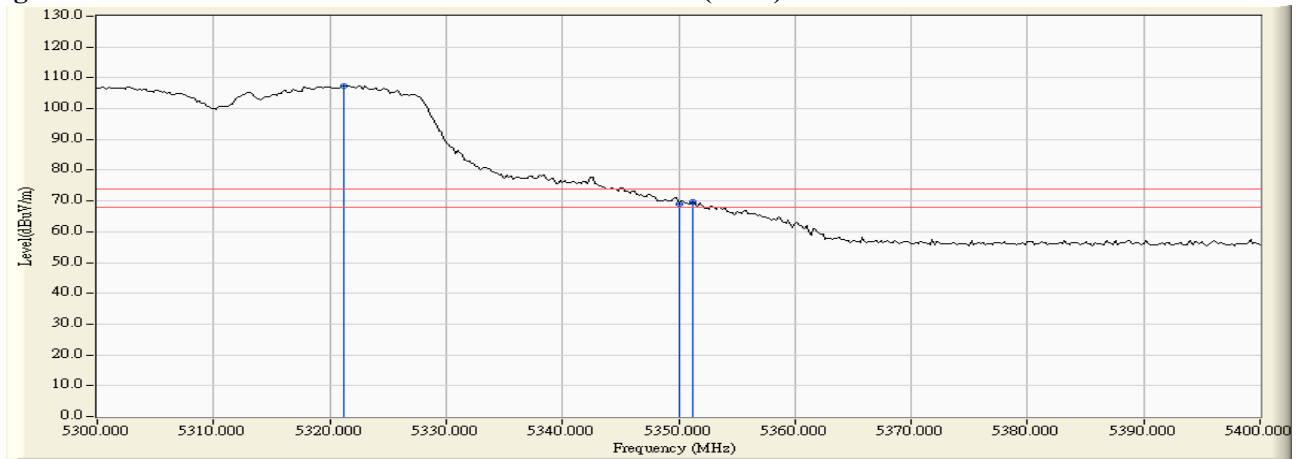
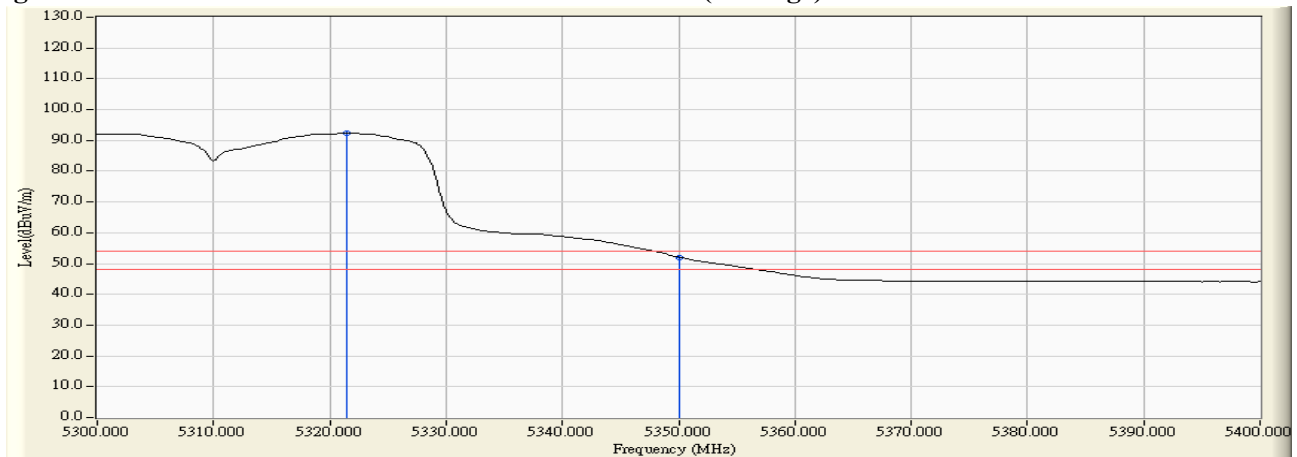


Figure Channel 62: Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correction Factor.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.

Product : 802.11ac Dual Band Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps) -Channel 102 (5510MHz)

RF Radiated Measurement (Horizontal):

| Channel No. | Frequency (MHz) | Correction Factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Peak Limit (dBμV/m) | Average Limit (dBμV/m) | Result |
|---------------|-----------------|------------------------|----------------------|-------------------------|---------------------|------------------------|--------|
| 102 (Peak) | 5459.800 | 4.352 | 69.325 | 73.676 | 74.00 | 54.00 | Pass |
| 102 (Peak) | 5460.000 | 4.354 | 67.970 | 72.324 | 74.00 | 54.00 | Pass |
| 102 (Peak) | 5502.000 | 4.829 | 104.365 | 109.193 | -- | -- | Pass |
| 102 (Average) | 5460.000 | 4.354 | 49.414 | 53.768 | 74.00 | 54.00 | Pass |
| 102 (Average) | 5498.800 | 4.806 | 90.420 | 95.226 | -- | -- | Pass |

Figure Channel 102: Horizontal (Peak)

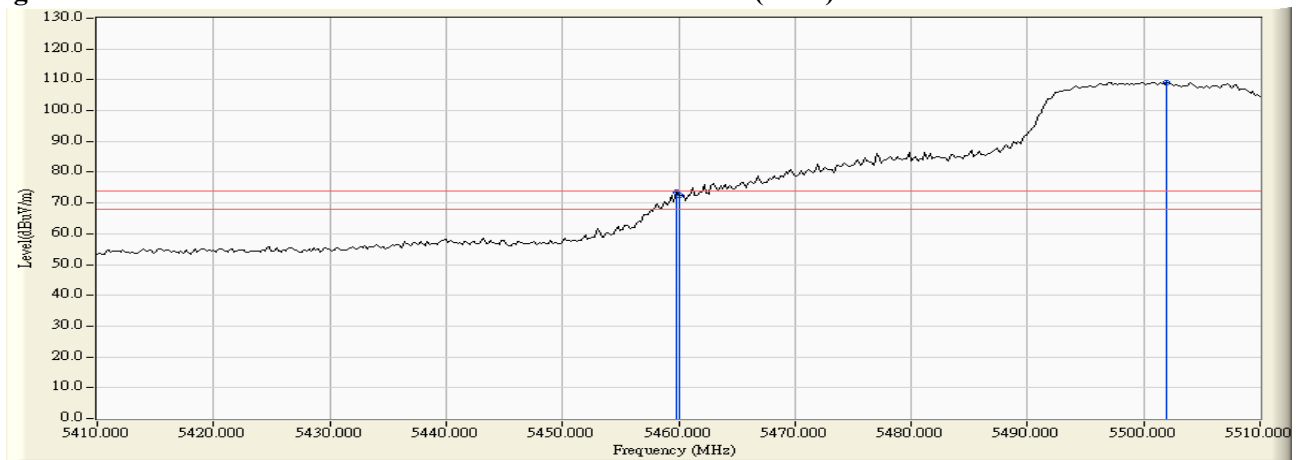
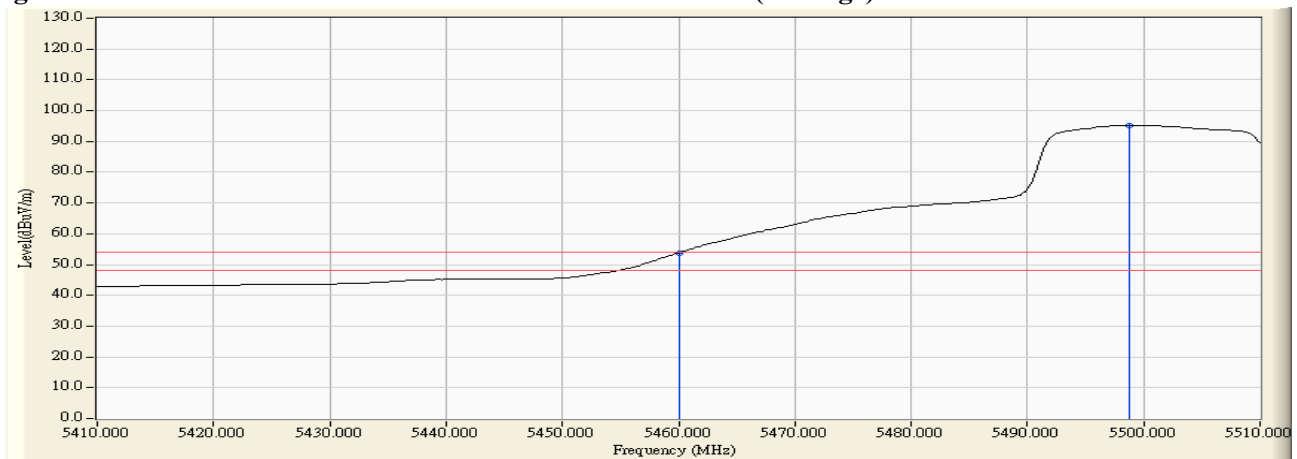


Figure Channel 102: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correction Factor.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.

Product : 802.11ac Dual Band Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps) -Channel 102 (5510MHz)

RF Radiated Measurement (Vertical):

| Channel No. | Frequency (MHz) | Correction Factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Peak Limit (dBμV/m) | Average Limit (dBμV/m) | Result |
|---------------|-----------------|------------------------|----------------------|-------------------------|---------------------|------------------------|--------|
| 102 (Peak) | 5460.000 | 6.041 | 66.886 | 72.927 | 74.00 | 54.00 | Pass |
| 102 (Peak) | 5503.000 | 6.284 | 104.517 | 110.801 | -- | -- | Pass |
| 102 (Average) | 5460.000 | 6.041 | 47.678 | 53.719 | 74.00 | 54.00 | Pass |
| 102 (Average) | 5503.600 | 6.285 | 90.237 | 96.523 | -- | -- | Pass |

Figure Channel 102: Vertical (Peak)

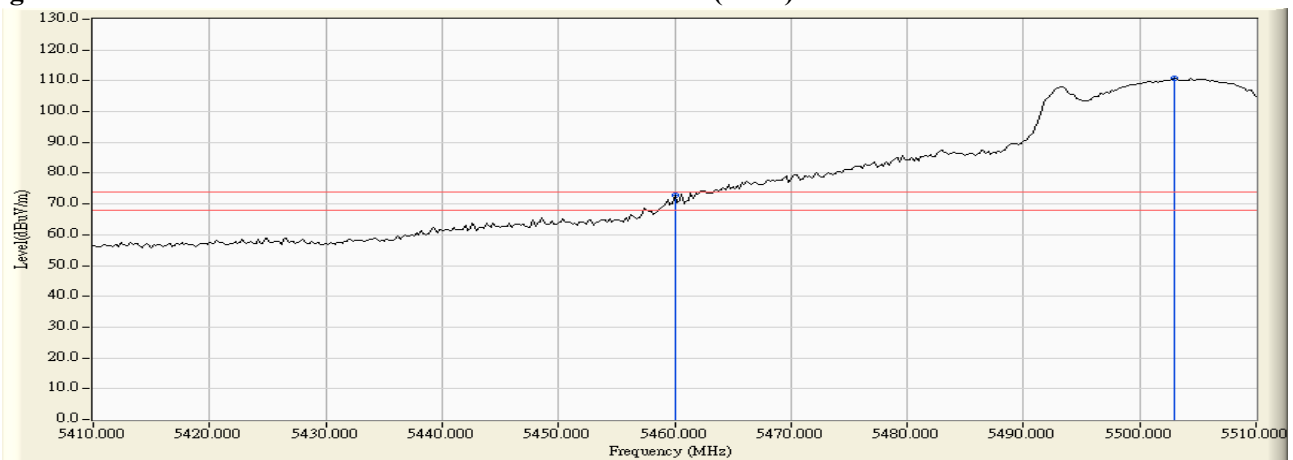
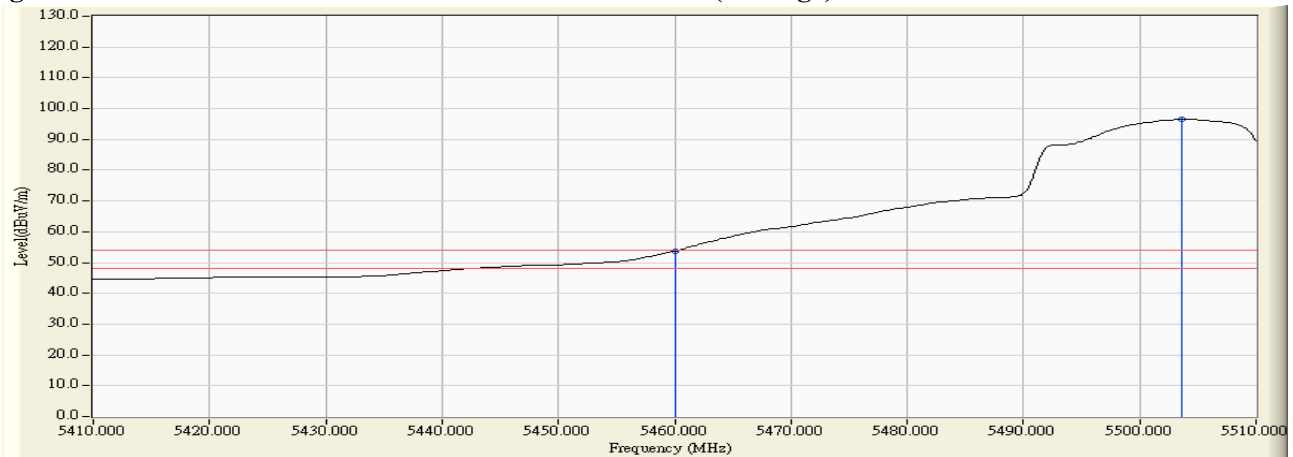


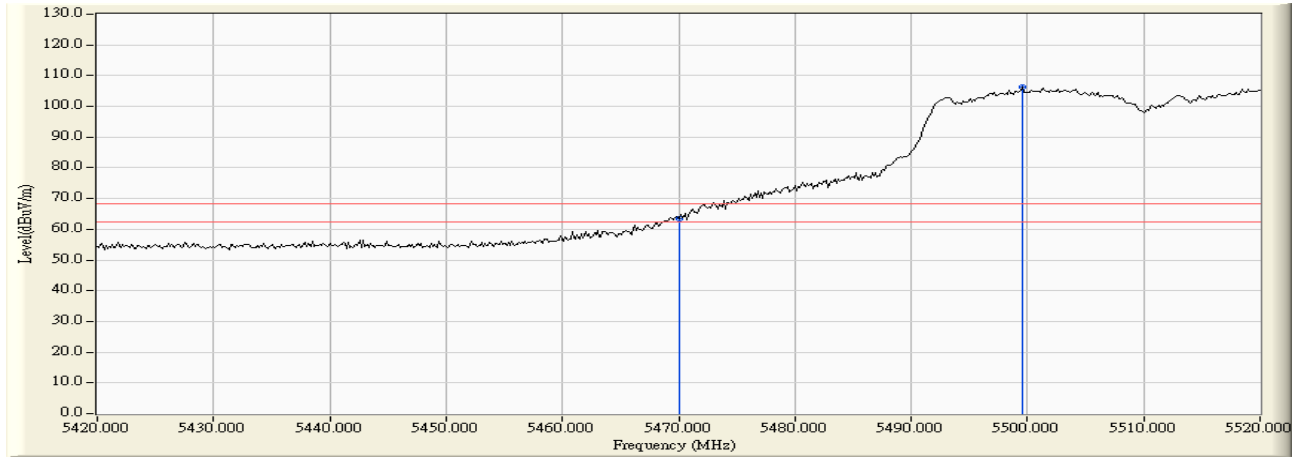
Figure Channel 102: Vertical (Average)



Note:

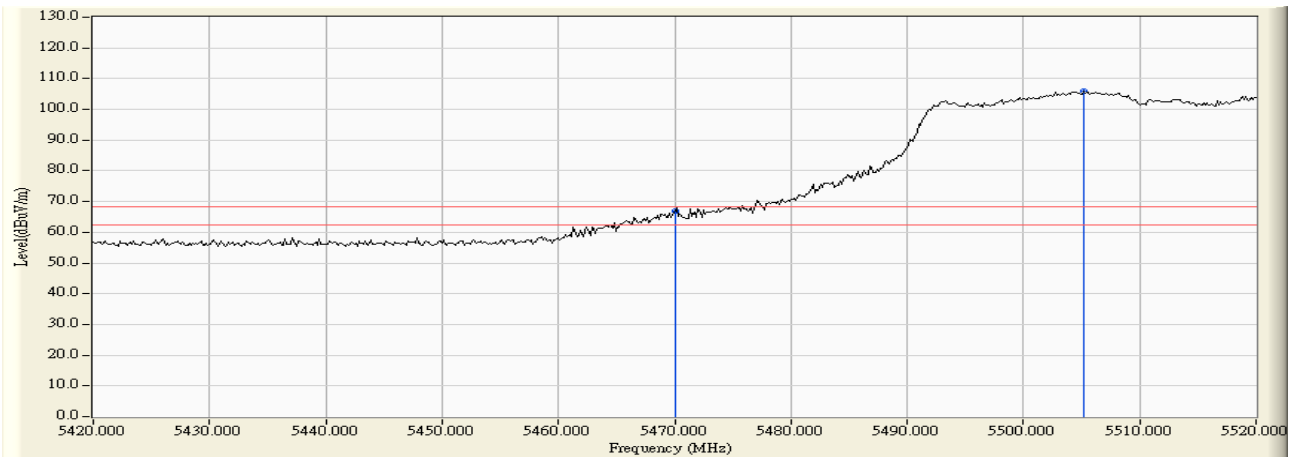
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correction Factor.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.

Product : 802.11ac Dual Band Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps) -Channel 102 (5510MHz)



RF Radiated Measurement:

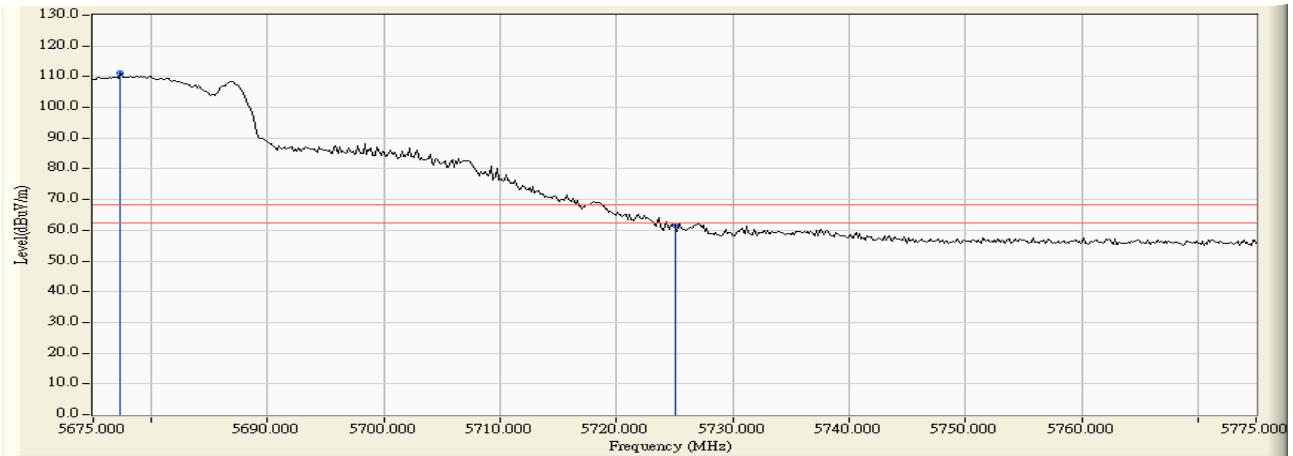
| | Frequency (MHz) | Correction Factor (dB) | Reading Level (dBm) | Measure Level (dBm/m) | Margin (dB) | Limit (dBm/m) | Result |
|------------|-----------------|------------------------|---------------------|-----------------------|-------------|---------------|--------|
| Horizontal | 5470.000 | 4.488 | 58.881 | 63.369 | -4.851 | 68.220 | Pass |
| Horizontal | 5499.565 | 4.812 | 101.402 | 106.213 | 37.993 | 68.220 | Pass |



RF Radiated Measurement:

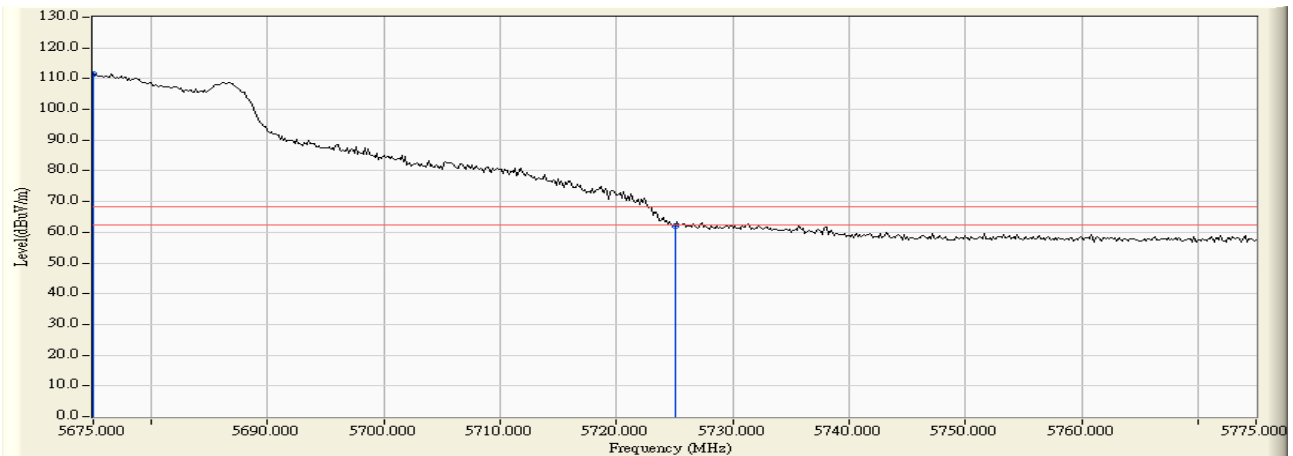
| | Frequency (MHz) | Correction Factor (dB) | Reading Level (dBm) | Measure Level (dBm/m) | Margin (dB) | Limit (dBm/m) | Result |
|----------|-----------------|------------------------|---------------------|-----------------------|-------------|---------------|--------|
| Vertical | 5470.000 | 6.112 | 60.879 | 66.990 | -1.230 | 68.220 | Pass |
| | 5505.217 | 6.289 | 99.606 | 105.895 | 37.675 | 68.220 | Pass |

Product : 802.11ac Dual Band Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps) -Channel 134 (5670MHz)



RF Radiated Measurement:

| | Frequency (MHz) | Correction Factor (dB) | Reading Level (dBm) | Measure Level (dBm/m) | Margin (dB) | Limit (dBm/m) | Result |
|------------|-----------------|------------------------|---------------------|-----------------------|-------------|---------------|--------|
| Horizontal | 5677.319 | 4.525 | 106.763 | 111.288 | 43.068 | 68.220 | Pass |
| Horizontal | 5725.000 | 4.654 | 57.031 | 61.685 | -6.535 | 68.220 | Pass |



RF Radiated Measurement:

| | Frequency (MHz) | Correction Factor (dB) | Reading Level (dBm) | Measure Level (dBm/m) | Margin (dB) | Limit (dBm/m) | Result |
|----------|-----------------|------------------------|---------------------|-----------------------|-------------|---------------|--------|
| Vertical | 5675.000 | 5.922 | 105.770 | 111.692 | 43.472 | 68.220 | Pass |
| Vertical | 5725.000 | 5.992 | 56.055 | 62.048 | -6.172 | 68.220 | Pass |

Product : 802.11ac Dual Band Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 6 Transmit (802.11ac-80BW-65Mbps) -Channel 58 (5290MHz)

RF Radiated Measurement (Horizontal):

| Channel No. | Frequency (MHz) | Correction Factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Peak Limit (dBμV/m) | Average Limit (dBμV/m) | Result |
|--------------|-----------------|------------------------|----------------------|-------------------------|---------------------|------------------------|--------|
| 58 (Peak) | 5307.800 | 3.852 | 98.196 | 102.048 | -- | -- | Pass |
| 58 (Peak) | 5350.000 | 3.716 | 64.067 | 67.784 | 74.00 | 54.00 | Pass |
| 58 (Peak) | 5351.000 | 3.713 | 66.106 | 69.819 | 74.00 | 54.00 | Pass |
| 58 (Average) | 5307.200 | 3.854 | 81.500 | 85.354 | -- | -- | Pass |
| 58 (Average) | 5350.000 | 3.716 | 48.747 | 52.464 | 74.00 | 54.00 | Pass |

Figure Channel 58: Horizontal (Peak)

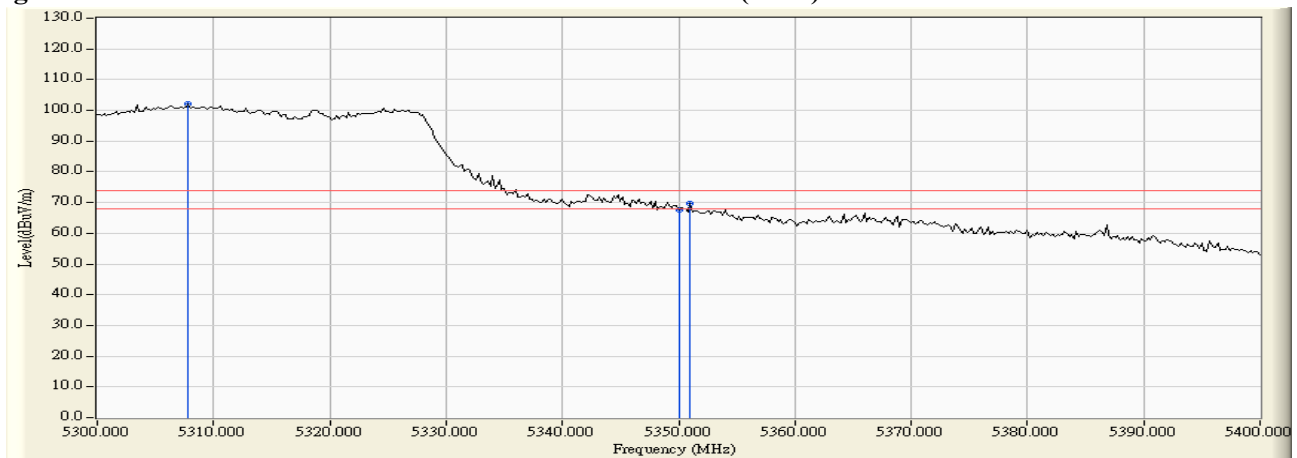
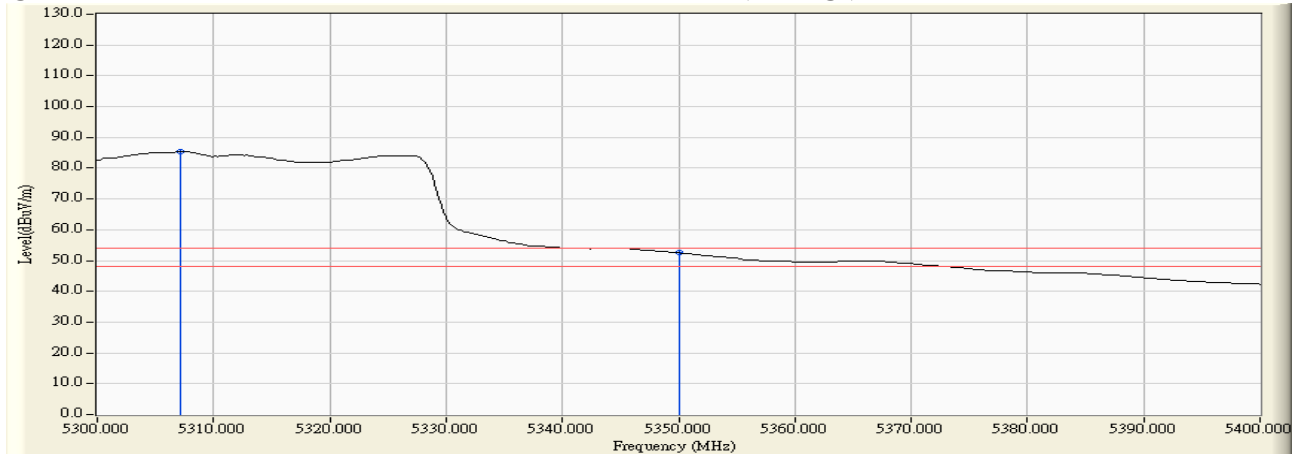


Figure Channel 58: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correction Factor.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.

Product : 802.11ac Dual Band Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 6 Transmit (802.11ac-80BW-65Mbps) -Channel 58 (5290MHz)

RF Radiated Measurement (Vertical):

| Channel No. | Frequency (MHz) | Correction Factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Peak Limit (dBμV/m) | Average Limit (dBμV/m) | Result |
|--------------|-----------------|------------------------|----------------------|-------------------------|---------------------|------------------------|--------|
| 58 (Peak) | 5308.000 | 5.745 | 95.447 | 101.192 | -- | -- | Pass |
| 58 (Peak) | 5350.000 | 5.691 | 61.674 | 67.366 | 74.00 | 54.00 | Pass |
| 58 (Average) | 5307.800 | 5.745 | 79.707 | 85.452 | -- | -- | Pass |
| 58 (Average) | 5350.000 | 5.691 | 46.202 | 51.894 | 74.00 | 54.00 | Pass |

Figure Channel 58: Vertical (Peak)

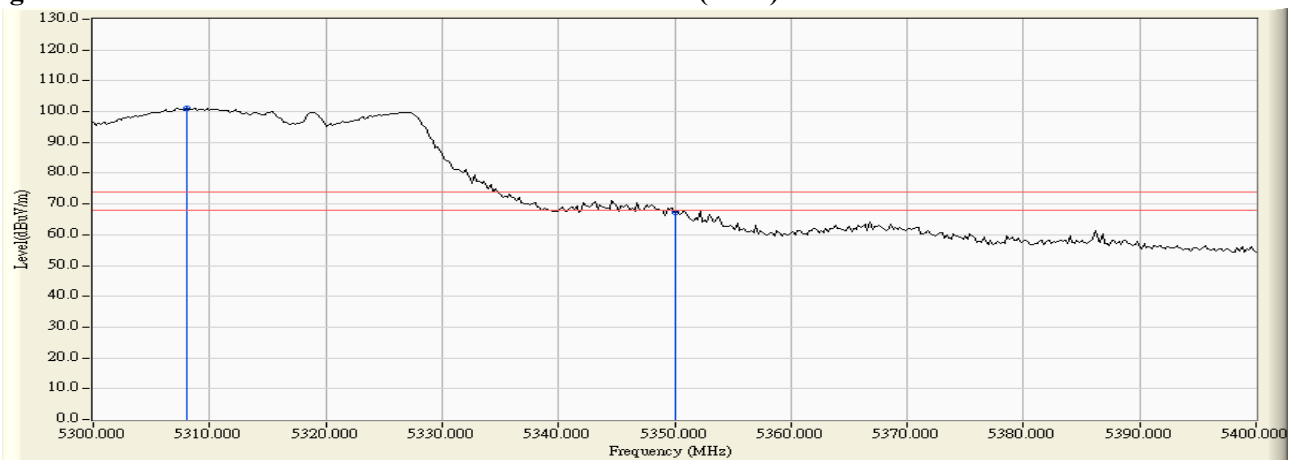
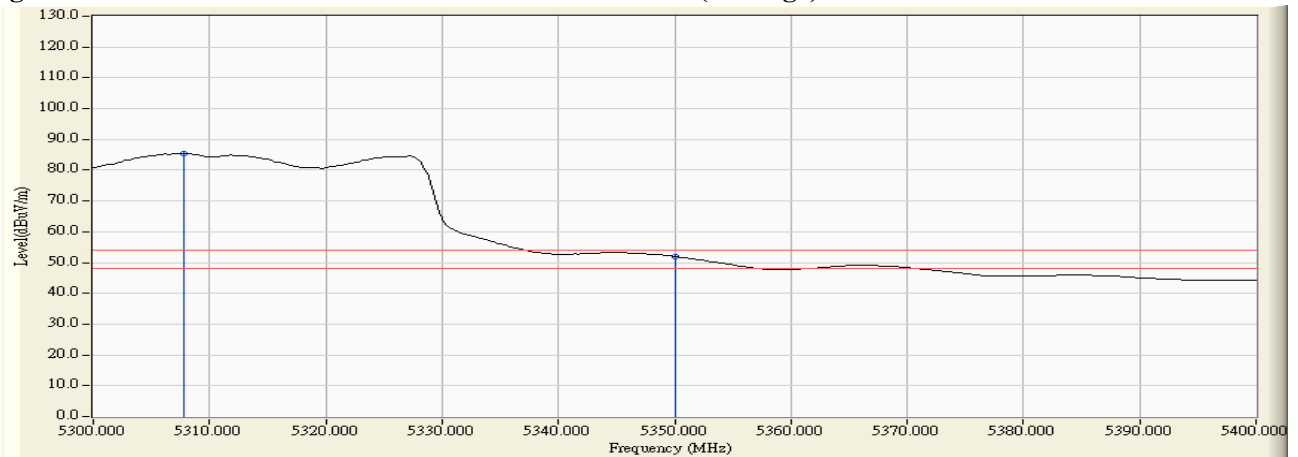


Figure Channel 58: Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correction Factor.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.

Product : 802.11ac Dual Band Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 6 Transmit (802.11ac-80BW-65Mbps) -Channel 106 (5530MHz)

RF Radiated Measurement (Horizontal):

| Channel No. | Frequency (MHz) | Correction Factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Peak Limit (dBμV/m) | Average Limit (dBμV/m) | Result |
|---------------|-----------------|------------------------|----------------------|-------------------------|---------------------|------------------------|--------|
| 106 (Peak) | 5458.600 | 4.335 | 60.898 | 65.233 | 74.00 | 54.00 | Pass |
| 106 (Peak) | 5460.000 | 4.354 | 58.424 | 62.778 | 74.00 | 54.00 | Pass |
| 106 (Peak) | 5498.800 | 4.806 | 96.320 | 101.126 | -- | -- | Pass |
| 106 (Average) | 5460.000 | 4.354 | 45.140 | 49.494 | 74.00 | 54.00 | Pass |
| 106 (Average) | 5507.600 | 4.828 | 80.128 | 84.956 | -- | -- | Pass |

Figure Channel 106: Horizontal (Peak)

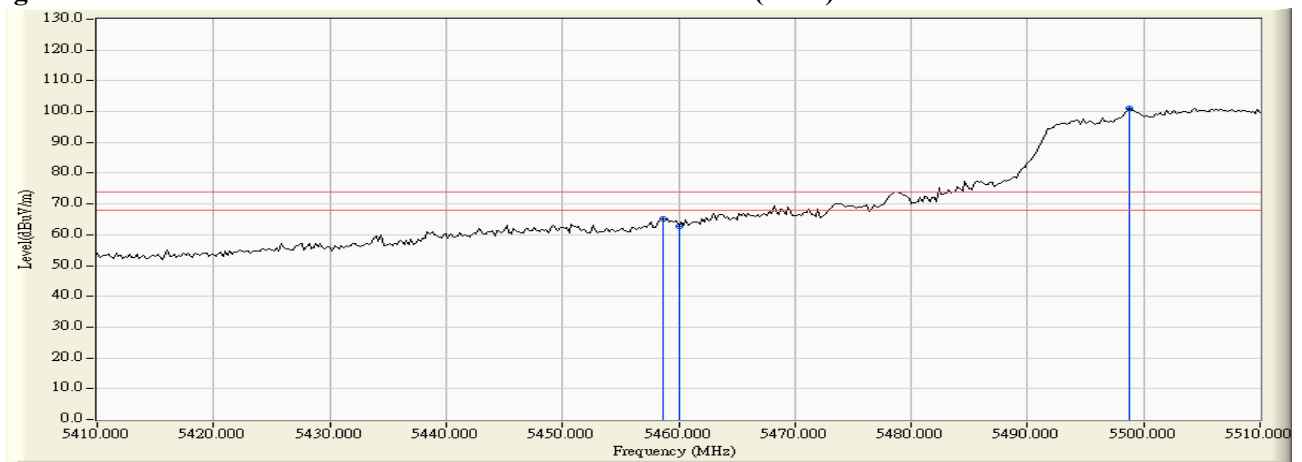
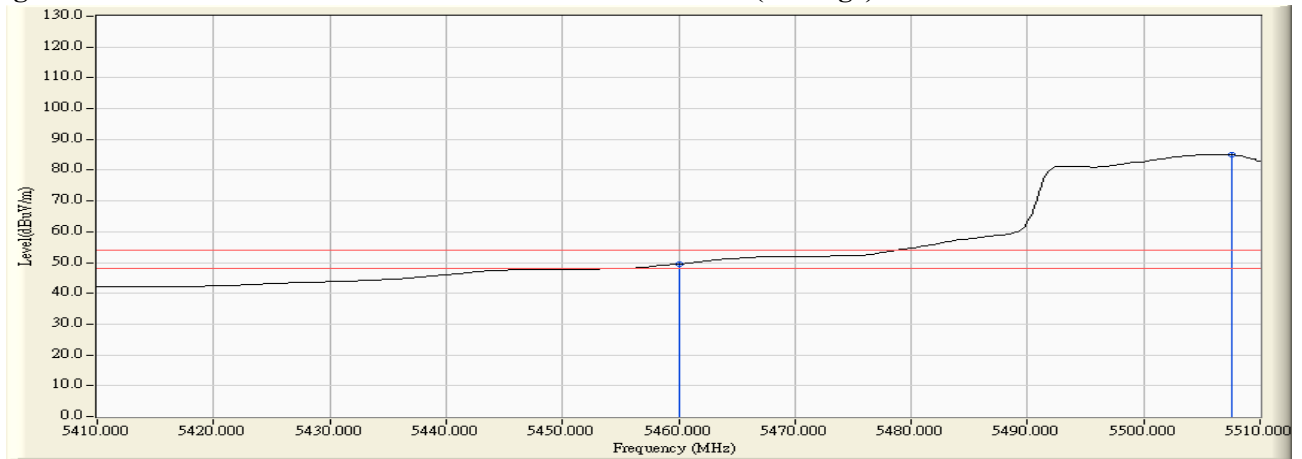


Figure Channel 106: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correction Factor.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.

Product : 802.11ac Dual Band Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 6 Transmit (802.11ac-80BW-65Mbps) -Channel 106 (5530MHz)

RF Radiated Measurement (Vertical):

| Channel No. | Frequency (MHz) | Correction Factor (dB) | Reading Level (dBμV) | Emission Level (dBμV/m) | Peak Limit (dBμV/m) | Average Limit (dBμV/m) | Result |
|---------------|-----------------|------------------------|----------------------|-------------------------|---------------------|------------------------|--------|
| 106 (Peak) | 5459.000 | 6.033 | 61.186 | 67.220 | 74.00 | 54.00 | Pass |
| 106 (Peak) | 5460.000 | 6.041 | 58.002 | 64.043 | 74.00 | 54.00 | Pass |
| 106 (Peak) | 5495.400 | 6.261 | 94.591 | 100.852 | -- | -- | Pass |
| 106 (Average) | 5456.200 | 6.014 | 44.796 | 50.810 | 74.00 | 54.00 | Pass |
| 106 (Average) | 5460.000 | 6.041 | 44.080 | 50.121 | 74.00 | 54.00 | Pass |
| 106 (Average) | 5495.000 | 6.260 | 78.605 | 84.865 | -- | -- | Pass |

Figure Channel 106: Vertical (Peak)

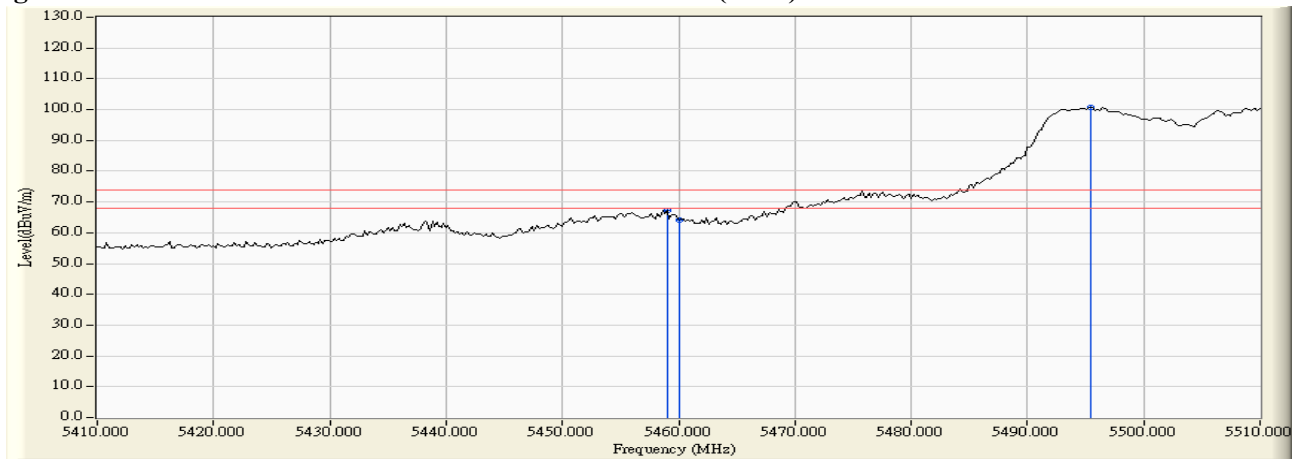
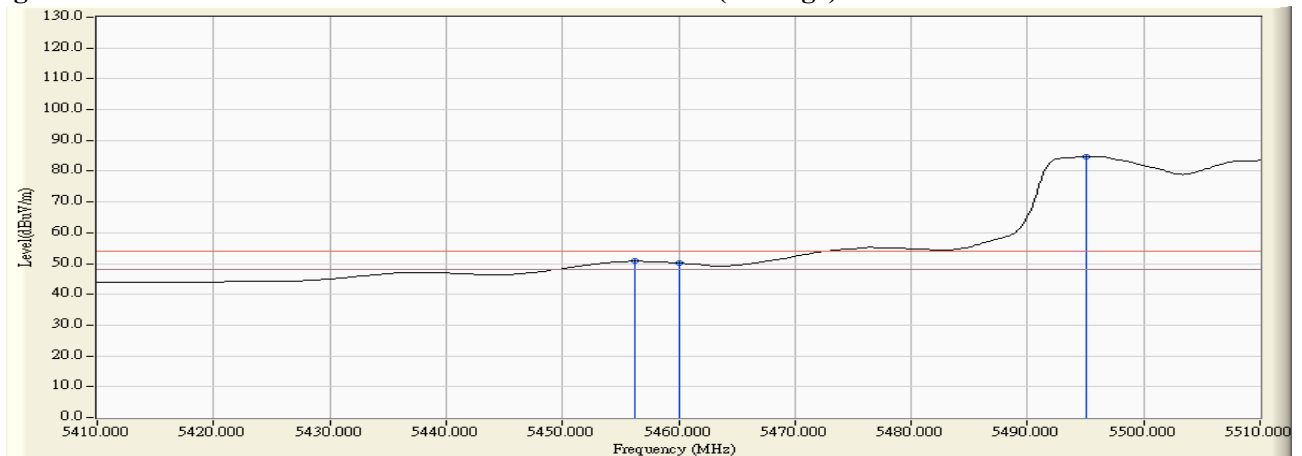


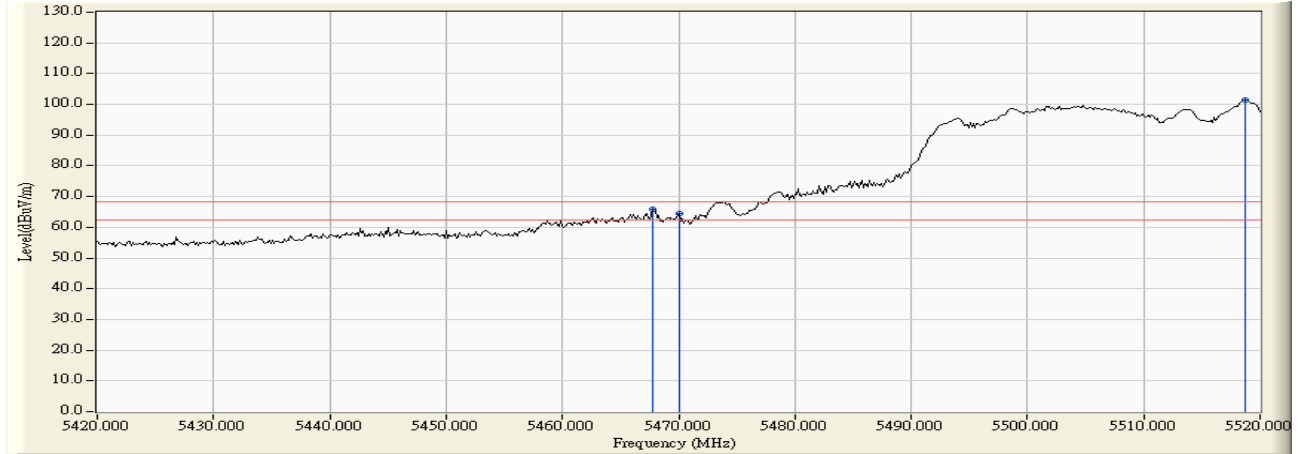
Figure Channel 106: Vertical (Average)



Note:

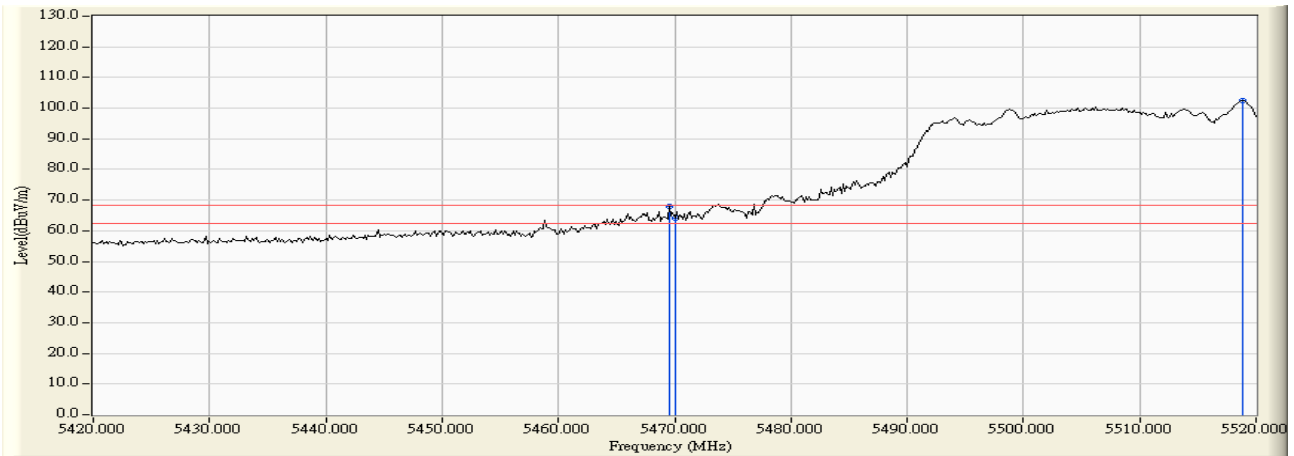
1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correction Factor.
6. The average measurement was not performed when the peak measured data is under the limit of average detection.

Product : 802.11ac Dual Band Access Point
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 6 Transmit (802.11ac-80BW-65Mbps) -Channel 106 (5530MHz)



RF Radiated Measurement:

| | Frequency (MHz) | Correction Factor (dB) | Reading Level (dBm) | Measure Level (dBm/m) | Margin (dB) | Limit (dBm/m) | Result |
|------------|-----------------|------------------------|---------------------|-----------------------|-------------|---------------|--------|
| Horizontal | 5467.826 | 4.459 | 61.256 | 65.715 | -2.505 | 68.220 | Pass |
| Horizontal | 5470.000 | 4.488 | 60.162 | 64.650 | -3.570 | 68.220 | Pass |
| Horizontal | 5518.696 | 4.739 | 96.679 | 101.418 | 33.198 | 68.220 | Pass |



RF Radiated Measurement:

| | Frequency (MHz) | Correction Factor (dB) | Reading Level (dBm) | Measure Level (dBm/m) | Margin (dB) | Limit (dBm/m) | Result |
|----------|-----------------|------------------------|---------------------|-----------------------|-------------|---------------|--------|
| Vertical | 5469.565 | 6.108 | 61.819 | 67.927 | -0.293 | 68.220 | Pass |
| Vertical | 5470.000 | 6.112 | 58.167 | 64.278 | -3.942 | 68.220 | Pass |
| Vertical | 5518.841 | 6.202 | 96.372 | 102.574 | 34.354 | 68.220 | Pass |

7. Frequency Stability

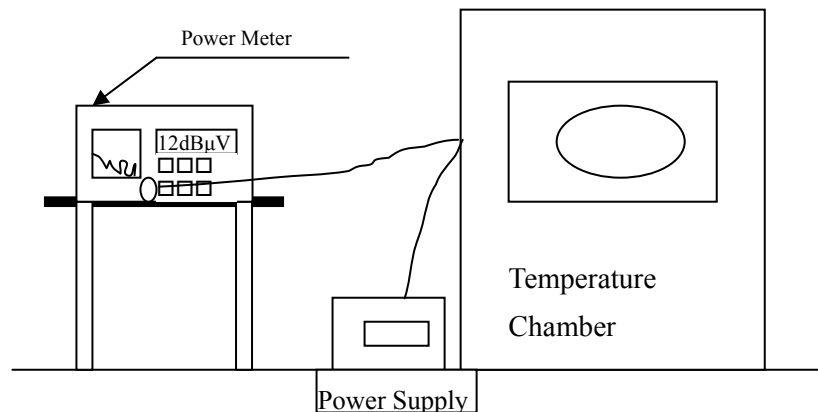
7.1. Test Equipment

| | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|---|-------------------|--------------|----------------------|------------|
| | Spectrum Analyzer | R&S | FSP40 / 100170 | Jun., 2015 |
| | Spectrum Analyzer | Agilent | E4407B / US39440758 | Jun., 2015 |
| X | Spectrum Analyzer | Agilent | N9010A / MY48030495 | Apr., 2015 |

Note:

1. All equipment is calibrated once a year or as required by manufacturer.
2. All equipment is calibrated to traceable calibration procedures.
3. The test instruments marked by "X" are used to measure the final test results.

7.2. Test Setup



7.3. Limits

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

7.4. Test Procedure

The EUT was setup to ANSI C63.10, 2013; tested to UNII test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

7.5. Uncertainty

± 150 Hz

7.6. Test Result of Frequency Stability

Product : 802.11ac Dual Band Access Point
 Test Item : Frequency Stability
 Test Site : Temperature Chamber
 Test Mode : Carrier Wave

Chain A

| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | ΔF (MHz) |
|-----------------|-------------|---------|-----------------|-----------------|------------------|
| Tnom (20) °C | Vnom (120)V | 52 | 5260.0000 | 5260.0068 | -0.0068 |
| | | 54 | 5270.0000 | 5270.0055 | -0.0055 |
| | | 60 | 5300.0000 | 5300.0043 | -0.0043 |
| | | 62 | 5310.0000 | 5310.0052 | -0.0052 |
| | | 64 | 5320.0000 | 5320.0066 | -0.0066 |
| | | 100 | 5500.0000 | 5500.0071 | -0.0071 |
| | | 102 | 5510.0000 | 5510.0072 | -0.0072 |
| | | 110 | 5550.0000 | 5550.0067 | -0.0067 |
| | | 116 | 5580.0000 | 5580.0048 | -0.0048 |
| | | 134 | 5670.0000 | 5670.0062 | -0.0062 |
| Tmax (50) °C | Vmax (138)V | 52 | 5260.0000 | 5260.0067 | -0.0067 |
| | | 54 | 5270.0000 | 5270.0048 | -0.0048 |
| | | 60 | 5300.0000 | 5300.0062 | -0.0062 |
| | | 62 | 5310.0000 | 5310.0072 | -0.0072 |
| | | 64 | 5320.0000 | 5320.0068 | -0.0068 |
| | | 100 | 5500.0000 | 5500.0055 | -0.0055 |
| | | 102 | 5510.0000 | 5510.0043 | -0.0043 |
| | | 110 | 5550.0000 | 5550.0052 | -0.0052 |
| | | 116 | 5580.0000 | 5580.0071 | -0.0071 |
| | | 134 | 5670.0000 | 5670.0072 | -0.0072 |
| Tmax (50) °C | Vmin (102)V | 52 | 5260.0000 | 5260.0068 | -0.0068 |
| | | 54 | 5270.0000 | 5270.0055 | -0.0055 |
| | | 60 | 5300.0000 | 5300.0043 | -0.0043 |
| | | 62 | 5310.0000 | 5310.0052 | -0.0052 |
| | | 64 | 5320.0000 | 5320.0071 | -0.0071 |
| | | 100 | 5500.0000 | 5500.0072 | -0.0072 |
| | | 102 | 5510.0000 | 5510.0067 | -0.0067 |
| | | 110 | 5550.0000 | 5550.0067 | -0.0067 |
| | | 116 | 5580.0000 | 5580.0048 | -0.0048 |
| | | 134 | 5670.0000 | 5670.0062 | -0.0062 |
| | | 140 | 5700.0000 | 5700.0072 | -0.0072 |

| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | ΔF (MHz) |
|-----------------|-------------|---------|-----------------|-----------------|------------------|
| Tmin (0) °C | Vmax (138)V | 52 | 5260.0000 | 5260.0088 | -0.0088 |
| | | 54 | 5270.0000 | 5270.0084 | -0.0084 |
| | | 60 | 5300.0000 | 5300.0071 | -0.0071 |
| | | 62 | 5310.0000 | 5310.0068 | -0.0068 |
| | | 64 | 5320.0000 | 5320.0082 | -0.0082 |
| | | 100 | 5500.0000 | 5500.0094 | -0.0094 |
| | | 102 | 5510.0000 | 5510.0068 | -0.0068 |
| | | 110 | 5550.0000 | 5550.0072 | -0.0072 |
| | | 116 | 5580.0000 | 5580.0084 | -0.0084 |
| | | 134 | 5670.0000 | 5670.0088 | -0.0088 |
| | | 140 | 5700.0000 | 5700.0092 | -0.0092 |
| Tmin (0) °C | Vmin (102)V | 52 | 5260.0000 | 5260.0088 | -0.0088 |
| | | 54 | 5270.0000 | 5270.0084 | -0.0084 |
| | | 60 | 5300.0000 | 5300.0071 | -0.0071 |
| | | 62 | 5310.0000 | 5310.0068 | -0.0068 |
| | | 64 | 5320.0000 | 5320.0082 | -0.0082 |
| | | 100 | 5500.0000 | 5500.0094 | -0.0094 |
| | | 102 | 5510.0000 | 5510.0068 | -0.0068 |
| | | 110 | 5550.0000 | 5550.0072 | -0.0072 |
| | | 116 | 5580.0000 | 5580.0084 | -0.0084 |
| | | 134 | 5670.0000 | 5670.0088 | -0.0088 |
| | | 140 | 5700.0000 | 5700.0092 | -0.0092 |

Chain B

| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | ΔF (MHz) |
|-----------------|-------------|---------|-----------------|-----------------|------------------|
| Tnom (20) °C | Vnom (120)V | 52 | 5260.0000 | 5260.0058 | -0.0058 |
| | | 54 | 5270.0000 | 5270.0051 | -0.0051 |
| | | 60 | 5300.0000 | 5300.0048 | -0.0048 |
| | | 62 | 5310.0000 | 5310.0052 | -0.0052 |
| | | 64 | 5320.0000 | 5320.0066 | -0.0066 |
| | | 100 | 5500.0000 | 5500.0071 | -0.0071 |
| | | 102 | 5510.0000 | 5510.0081 | -0.0081 |
| | | 110 | 5550.0000 | 5550.0062 | -0.0062 |
| | | 116 | 5580.0000 | 5580.0057 | -0.0057 |
| | | 134 | 5670.0000 | 5670.0048 | -0.0048 |
| | | 140 | 5700.0000 | 5700.0062 | -0.0062 |
| Tmax (50) °C | Vmax (138)V | 52 | 5260.0000 | 5260.0062 | -0.0062 |
| | | 54 | 5270.0000 | 5270.0057 | -0.0057 |
| | | 60 | 5300.0000 | 5300.0048 | -0.0048 |
| | | 62 | 5310.0000 | 5310.0062 | -0.0062 |
| | | 64 | 5320.0000 | 5320.0058 | -0.0058 |
| | | 100 | 5500.0000 | 5500.0051 | -0.0051 |
| | | 102 | 5510.0000 | 5510.0048 | -0.0048 |
| | | 110 | 5550.0000 | 5550.0052 | -0.0052 |
| | | 116 | 5580.0000 | 5580.0071 | -0.0071 |
| | | 134 | 5670.0000 | 5670.0081 | -0.0081 |
| | | 140 | 5700.0000 | 5700.0062 | -0.0062 |
| Tmax (50) °C | Vmin (102)V | 52 | 5260.0000 | 5260.0058 | -0.0058 |
| | | 54 | 5270.0000 | 5270.0051 | -0.0051 |
| | | 60 | 5300.0000 | 5300.0048 | -0.0048 |
| | | 62 | 5310.0000 | 5310.0052 | -0.0052 |
| | | 64 | 5320.0000 | 5320.0071 | -0.0071 |
| | | 100 | 5500.0000 | 5500.0081 | -0.0081 |
| | | 102 | 5510.0000 | 5510.0062 | -0.0062 |
| | | 110 | 5550.0000 | 5550.0062 | -0.0062 |
| | | 116 | 5580.0000 | 5580.0057 | -0.0057 |
| | | 134 | 5670.0000 | 5670.0048 | -0.0048 |
| | | 140 | 5700.0000 | 5700.0062 | -0.0062 |

| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | ΔF (MHz) |
|-----------------|-------------|---------|-----------------|-----------------|------------------|
| Tmin (0) °C | Vmax (138)V | 52 | 5260.0000 | 5260.0094 | -0.0094 |
| | | 54 | 5270.0000 | 5270.0068 | -0.0068 |
| | | 60 | 5300.0000 | 5300.0072 | -0.0072 |
| | | 62 | 5310.0000 | 5310.0084 | -0.0084 |
| | | 64 | 5320.0000 | 5320.0088 | -0.0088 |
| | | 100 | 5500.0000 | 5500.0092 | -0.0092 |
| | | 102 | 5510.0000 | 5510.0088 | -0.0088 |
| | | 110 | 5550.0000 | 5550.0084 | -0.0084 |
| | | 116 | 5580.0000 | 5580.0071 | -0.0071 |
| | | 134 | 5670.0000 | 5670.0068 | -0.0068 |
| | | 140 | 5700.0000 | 5700.0082 | -0.0082 |
| Tmin (0) °C | Vmin (102)V | 52 | 5260.0000 | 5260.0094 | -0.0094 |
| | | 54 | 5270.0000 | 5270.0068 | -0.0068 |
| | | 60 | 5300.0000 | 5300.0072 | -0.0072 |
| | | 62 | 5310.0000 | 5310.0084 | -0.0084 |
| | | 64 | 5320.0000 | 5320.0088 | -0.0088 |
| | | 100 | 5500.0000 | 5500.0092 | -0.0092 |
| | | 102 | 5510.0000 | 5510.0088 | -0.0088 |
| | | 110 | 5550.0000 | 5550.0084 | -0.0084 |
| | | 116 | 5580.0000 | 5580.0071 | -0.0071 |
| | | 134 | 5670.0000 | 5670.0068 | -0.0068 |
| | | 140 | 5700.0000 | 5700.0082 | -0.0082 |

Product : 802.11ac Dual Band Access Point
 Test Item : Frequency Stability
 Test Site : Temperature Chamber
 Test Mode : Carrier Wave (AC)

Chain A

| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | ΔF (MHz) |
|-----------------|-------------|---------|-----------------|-----------------|------------------|
| Tnom (20) oC | Vnom (120)V | 58 | 5290.0000 | 5290.0046 | -0.0046 |
| | | 106 | 5530.0000 | 5530.0068 | -0.0068 |
| | | 122 | 5610.0000 | 5610.0028 | -0.0028 |
| Tnom (50) oC | Vnom (138)V | 58 | 5290.0000 | 5290.0072 | -0.0072 |
| | | 106 | 5530.0000 | 5530.0068 | -0.0068 |
| | | 122 | 5610.0000 | 5610.0042 | -0.0042 |
| Tnom (50) oC | Vnom (102)V | 58 | 5290.0000 | 5290.0072 | -0.0072 |
| | | 106 | 5530.0000 | 5530.0068 | -0.0068 |
| | | 122 | 5610.0000 | 5610.0042 | -0.0042 |
| Tnom (0) oC | Vnom (138)V | 58 | 5290.0000 | 5290.0072 | -0.0072 |
| | | 106 | 5530.0000 | 5530.0068 | -0.0068 |
| | | 122 | 5610.0000 | 5610.0064 | -0.0064 |
| Tnom (0) oC | Vnom (102)V | 58 | 5290.0000 | 5290.0072 | -0.0072 |
| | | 106 | 5530.0000 | 5530.0068 | -0.0068 |
| | | 122 | 5610.0000 | 5610.0064 | -0.0064 |

Chain B

| Test Conditions | | Channel | Frequency (MHz) | Frequency (MHz) | ΔF (MHz) |
|-----------------|-------------|---------|-----------------|-----------------|------------------|
| Tnom (20) oC | Vnom (120)V | 58 | 5290.0000 | 5290.0038 | -0.0038 |
| | | 106 | 5530.0000 | 5530.0072 | -0.0072 |
| | | 122 | 5610.0000 | 5610.0032 | -0.0032 |
| Tnom (50) oC | Vnom (138)V | 58 | 5290.0000 | 5290.0066 | -0.0066 |
| | | 106 | 5530.0000 | 5530.0052 | -0.0052 |
| | | 122 | 5610.0000 | 5610.0038 | -0.0038 |
| Tnom (50) oC | Vnom (102)V | 58 | 5290.0000 | 5290.0066 | -0.0066 |
| | | 106 | 5530.0000 | 5530.0058 | -0.0058 |
| | | 122 | 5610.0000 | 5610.0038 | -0.0038 |
| Tnom (0) oC | Vnom (138)V | 58 | 5290.0000 | 5290.0066 | -0.0066 |
| | | 106 | 5530.0000 | 5530.0058 | -0.0058 |
| | | 122 | 5610.0000 | 5610.0052 | -0.0052 |
| Tnom (0) oC | Vnom (102)V | 58 | 5290.0000 | 5290.0068 | -0.0068 |
| | | 106 | 5530.0000 | 5530.0058 | -0.0058 |
| | | 122 | 5610.0000 | 5610.0052 | -0.0052 |

8. EMI Reduction Method During Compliance Testing

No modification was made during testing.