



FCC PART 15.407
IC RSS-247, ISSUE 1, MAY 2015



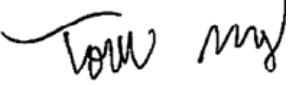
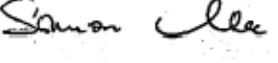
TEST AND MEASUREMENT REPORT

For

NVIDIA CORPORATION

2701 San Tomas Expressway,
Santa Clara, CA 95050, USA

**FCC ID: VOB-P2290W
IC: 7361A-P2290W**

| | |
|---|--------------------------------|
| Report Type: Original Report | Product Type: Tablet |
| Prepared By: <u>Todd Moy</u>  | |
| Report Number: <u>R1511101-407</u> | |
| Report Date: <u>2016-05-04</u> | |
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* This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk “*” (b)(2)

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DOCUMENT REVISION HISTORY

| Revision Number | Report Number | Description of Revision | Date of Revision |
|-----------------|---------------|-------------------------|------------------|
| 0 | R1511101-407 | Original Report | 2016-05-04 |

1 General Description

1.1 Product Description for Equipment under Test (EUT)

This test and measurement report was prepared on behalf of *NVIDIA CORPORATION*, and their product model: P2290W, FCC ID: VOB-P2290W; IC: 7361A-P2290W or the “EUT” as referred to in this report. It is a tablet that operates in the 2.4 GHz and 5 GHz bands.

1.2 Mechanical Description of EUT

The EUT measures approximately 218 mm (L) x 123 mm (W) x 8 mm (H) and weight 350 g.

The test data gathered are from typical production sample, serial number: 0424515000300 assigned by NVIDIA CORPORATION.

1.3 Objective

This report is prepared on behalf of *NVIDIA CORPORATION* in accordance with FCC CFR47 §15.407 and IC RSS-247 Issue 1, May 2015.

The objective is to determine compliance with FCC Part 15.407 and IC RSS-247 rules for Output Power, Antenna Requirements, AC Line Conducted Emissions, Emission Bandwidth, Power spectral density, Conducted and Radiated Spurious Emissions.

1.4 Related Submittal(s)/Grant(s)

FCC Part 15, Subpart C, Equipment DSS with FCC ID: VOB-P2290W, IC: 7361A-P2290W
FCC Part 15, Subpart C, Equipment DTS with FCC ID: VOB-P2290W, IC: 7361A-P2290W

1.5 Test Methodology

All measurements contained in this report were conducted in accordance with ANSI C63.10-2013, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz, and FCC KDB 789033 D02 General UNII Test Procedure New Rules v01r01.

1.6 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in the field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on CISPR16-4-2:2011, The Treatment of Uncertainty in EMC Measurements, the values ranging from ± 2.0 dB for Conducted Emissions tests and ± 4.0 dB for Radiated Emissions tests are the most accurate estimates pertaining to uncertainty of EMC measurements at BACL Corp.

All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratory, Corp. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

1.7 Test Facility

Bay area compliance Laboratories Corp. (BACL) is:

1- An independent Commercial Test Laboratory accredited to **ISO 17025: 2005** by **A2LA**, in the fields of: Electromagnetic Compatibility & Telecommunications covering Emissions, Immunity, Radio, RF Exposure, Safety and Telecom. This includes NEBS (Network Equipment Building System), Wireless RF, Telecommunications Terminal Equipment (TTE); Network Equipment; Information Technology Equipment (ITE); Medical Electrical Equipment; Industrial, Commercial, and Medical Test Equipment; Professional Audio and Video Equipment; Electronic (Digital) Products; Industrial and Scientific Instruments; Cabled Distribution Systems and Energy Efficiency Lighting.

2- An ENERGY STAR Recognized Laboratory, for the LM80 Testing, a wide variety of Luminaires and Computers.

3- A NIST Designated Phase-I and Phase-II CAB including: ACMA (Australian Communication and Media Authority), BSMI (Bureau of Standards, Metrology and Inspection of Taiwan), IDA (Infocomm Development Authority of Singapore), IC(Industry Canada), Korea (Ministry of Communications Radio Research Laboratory), NCC (Formerly DGT; Directorate General of Telecommunication of Chinese Taipei) OFTA (Office of the Telecommunications Authority of Hong Kong), Vietnam, VCCI - Voluntary Control Council for Interference of Japan and a designated EU CAB (Conformity Assessment Body) (Notified Body) for the EMC and R&TTE Directives.

4- A Product Certification Body accredited to **ISO Guide 65: 1996** by **A2LA** to certify:

2. Radio Standards Specifications (RSS) in the Category I Equipment Standards List and All Broadcasting Technical Standards (BETS) in Category I Equipment Standards List for Industry Canada.
3. Radio Communication Equipment for Singapore.
4. Radio Equipment Specifications, GMDSS Marine Radio Equipment Specifications, and Fixed Network Equipment Specifications for Hong Kong.
5. Japan MIC Telecommunication Business Law (A1, A2) and Radio Law (B1, B2 and B3).
6. Audio/Video, Battery Charging Systems, Computers, Displays, Enterprise Servers, Imaging Equipment, Set-Top Boxes, Telephony, Televisions, Ceiling Fans, CFLs (Including GU24s),Decorative Light Strings, Integral LED Lamps, Luminaires, Residential Ventilating Fans.

The test site used by BACL Corp. to collect radiated and conducted emissions measurement data is located at its facility in Sunnyvale, California, USA.

The test site at BACL Corp. has been fully described in reports submitted to the Federal Communication Commission (FCC) and Voluntary Control Council for Interference (VCCI). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 11 and December 10, 1997, and Article 8 of the VCCI regulations on December 25, 1997. The test site also complies with the test methods and procedures set forth in CISPR 22:2008 §10.4 for measurements below 1 GHz and §10.6 for measurements above 1 GHz as well as ANSI C63.4-2009, ANSI C63.4-2009, TIA/EIA-603 & CISPR 24:2010.

The Federal Communications Commission and Voluntary Control Council for Interference have the reports on file and they are listed under FCC registration number: 90464 and VCCI Registration No.: A-0027. The test site has been approved by the FCC and VCCI for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, BACL Corp. is an American Association for Laboratory Accreditation (A2LA) accredited laboratory (Lab Code 3297-02). The current scope of accreditations can be found at

<http://www.a2la.org/scopepdf/3297-02.pdf?CFID=1132286&CFTOKEN=e42a3240dac3f6ba-6DE17DCB-1851-9E57-477422F667031258&jsessionid=8430d44flf47cf2996124343c704b367816b>

2 EUT Test Configuration

2.1 Justification

The EUT was configured for testing according to ANSI C63.10-2013 and FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01.

The EUT was tested in a testing mode to represent worst-case results during the final qualification test.

The worst-case data rates are determined by measuring the average power, peak power and PPSD across all data rates bandwidths, and modulations.

2.2 EUT Exercise Software

The test utility used was Android Debug Bridge provided by *NVIDIA CORPORATION*, the software was verified by *Todd Moy* to comply with the standard requirements being tested against.

Please refer to the following power setting table.

| Modulation | Channel | Frequency (MHz) | Power Setting |
|--------------|---------|-----------------|---------------|
| 802.11a mode | 36 | 5180 | 48/44 |
| | 40 | 5200 | 50/44 |
| | 48 | 5240 | 50/46 |
| | 52 | 5260 | 46 |
| | 60 | 5300 | 46 |
| | 64 | 5320 | 46 |
| | 100 | 5500 | 42/38 |
| | 116 | 5580 | 42/38 |
| | 140 | 5700 | 48 |
| | 149 | 5745 | 48 |
| | 157 | 5785 | 48 |
| | 165 | 5825 | 44/48 |

| Modulation | Channel | Frequency (MHz) | Power Setting |
|-----------------|---------|-----------------|---------------|
| 802.11n20 mode | 36 | 5180 | 44 |
| | 40 | 5200 | 44 |
| | 48 | 5240 | 44 |
| | 52 | 5260 | 46 |
| | 60 | 5300 | 46 |
| | 64 | 5320 | 46 |
| | 100 | 5500 | 38 |
| | 116 | 5580 | 38 |
| | 140 | 5700 | 48 |
| | 149 | 5745 | 48 |
| | 157 | 5785 | 48 |
| | 165 | 5825 | 44 |
| 802.11n40 mode | 38 | 5190 | 44 |
| | 46 | 5230 | 44 |
| | 54 | 5270 | 44 |
| | 62 | 5310 | 46 |
| | 102 | 5510 | 38 |
| | 110 | 5550 | 38 |
| | 134 | 5670 | 38 |
| | 151 | 5755 | 48 |
| | 159 | 5795 | 44 |
| | 36 | 5180 | 44 |
| 802.11ac20 mode | 40 | 5200 | 44 |
| | 48 | 5240 | 46 |
| | 52 | 5260 | 46 |
| | 60 | 5300 | 46 |
| | 64 | 5320 | 46 |
| | 100 | 5500 | 38 |
| | 116 | 5580 | 38 |
| | 140 | 5700 | 48 |
| | 149 | 5745 | 48 |
| | 157 | 5785 | 48 |
| | 165 | 5825 | 44 |

| Modulation | Channel | Frequency (MHz) | Power Setting |
|-----------------|---------|-----------------|---------------|
| 802.11ac40 mode | 38 | 5190 | 44 |
| | 46 | 5230 | 44 |
| | 54 | 5270 | 46 |
| | 62 | 5310 | 46 |
| | 102 | 5510 | 38 |
| | 110 | 5550 | 38 |
| | 134 | 5670 | 38 |
| | 151 | 5755 | 48 |
| | 159 | 5795 | 44 |
| 802.11ac80 mode | 42 | 5210 | 46 |
| | 58 | 5290 | 46 |
| | 106 | 5530 | 38 |
| | 122 | 5610 | 38 |
| | 155 | 5775 | 48 |

2.3 Duty Cycle Correction Factor

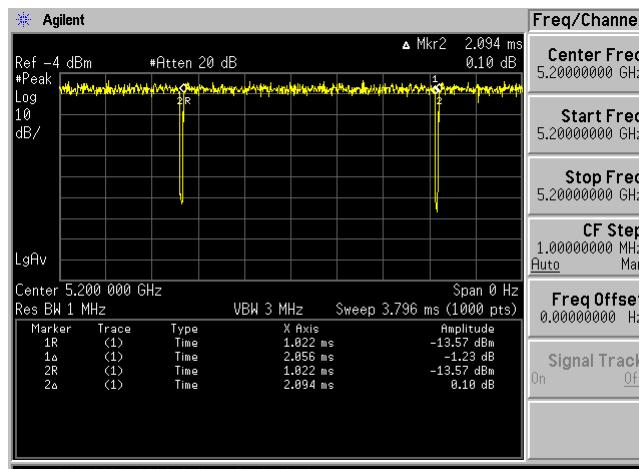
According to KDB 789033 D02 General UNII Test Procedures New Rules v01r01 section B:

All measurements are to be performed with the EUT transmitting at 100% duty cycle at its maximum power control level; however, if 100% duty cycle cannot be achieved, measurements of duty cycle, x, and maximum-power transmission duration, T, are required for each tested mode of operation.

| Radio Mode | On Time (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) |
|------------|--------------|-------------|----------------|-----------------------------------|
| 802.11a | 2.056 | 2.094 | 98.19 | 0.08 |
| 802.11n20 | 1.91 | 1.949 | 98.00 | 0.09 |
| 802.11n40 | 0.9238 | 0.984 | 93.88 | 0.27 |
| 802.11ac20 | 0.983 | 1.022 | 96.18 | 0.17 |
| 802.11ac40 | 0.4637 | 0.5294 | 87.59 | 0.58 |
| 802.11ac80 | 0.227 | 0.2856 | 79.48 | 1.00 |

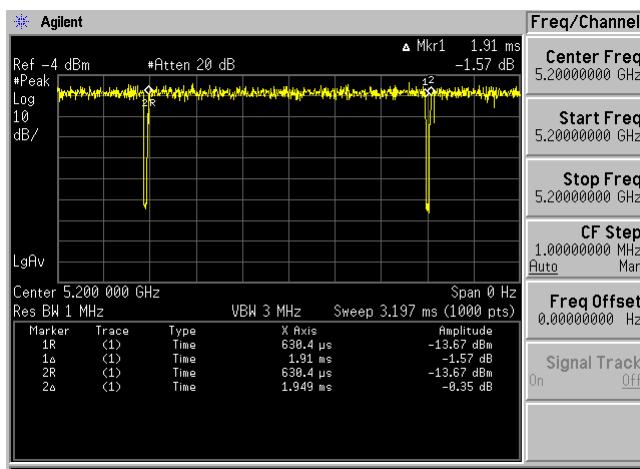
Please refer to the following plots.

802.11a mode



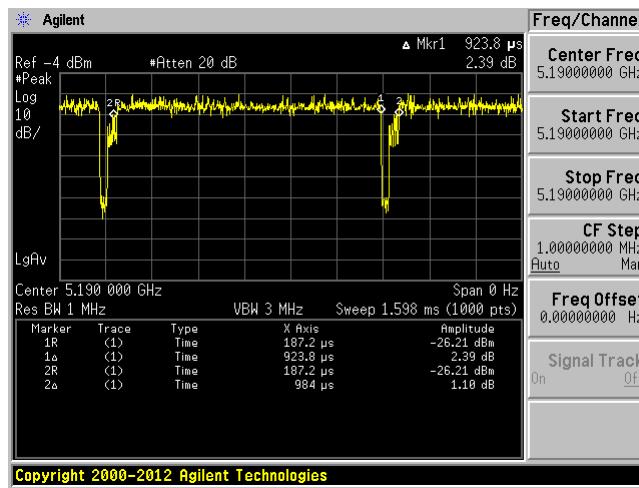
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802.11n20 mode



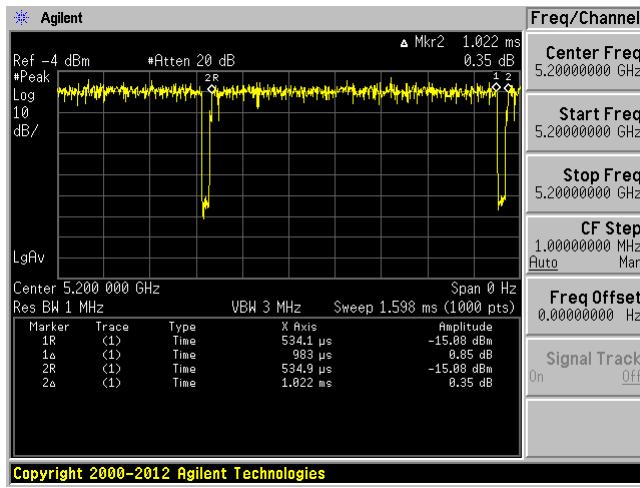
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802.11n40 mode



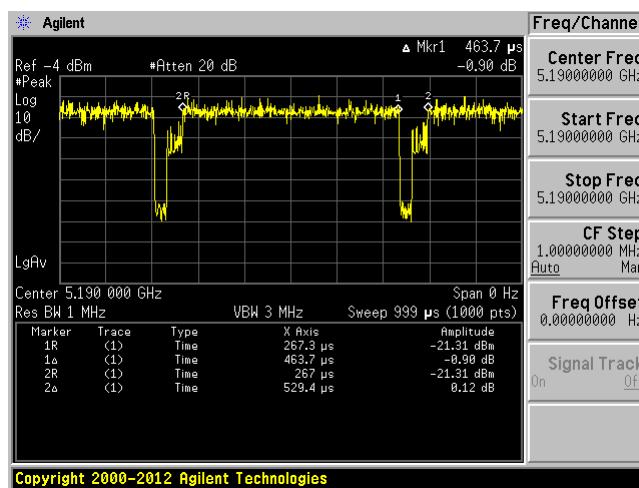
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802.11ac20 mode



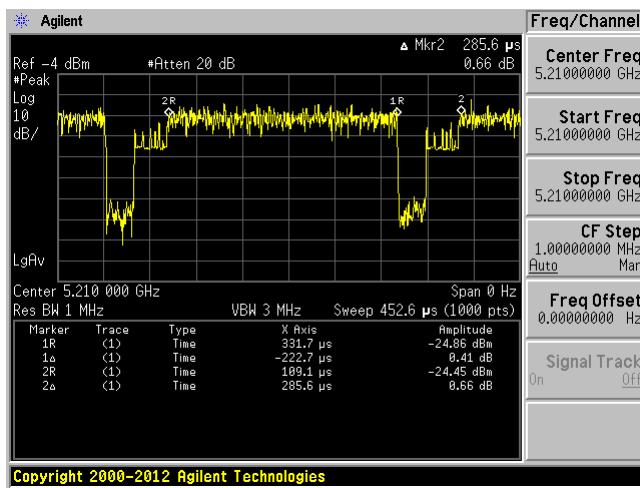
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802.11ac40 mode



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802.11ac80 mode



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2.4 Equipment Modifications

A hole was cut in the back of the EUT to access the antenna ports.

2.5 Local Support Equipment

| Manufacturer | Description | Model |
|--------------|-------------|---------------|
| Dell | Laptop | Latitude D630 |

2.6 EUT Internal Configuration Details

| Manufacturer | Description | Model |
|--------------|-------------|-------------|
| NVIDIA | Main Board | P2290 |
| BYD | battery | 11416519-00 |

2.7 Support Equipment

| Manufacturer | Description | Model |
|--------------|-------------------|-------------|
| NVIDIA | USB Power Adapter | SPA011AU5W2 |

2.8 Interface Ports and Cabling

| Cable Description | Length (m) | To | From |
|-------------------|------------|--------|------|
| USB Cable | < 1 m | Laptop | EUT |
| U.FL-RSMA pigtail | < 1 m | EUT | PSA |

3 Summary of Test Results

| FCC & IC Rules | Description of Test | Result |
|--|---|------------------------|
| FCC §2.1093, §15.407(f), IC RSS-102 | RF Exposure | Compliant ¹ |
| FCC §15.203 IC RSS-Gen §8.3 | Antenna Requirement | Compliant |
| FCC §15.207 IC RSS-Gen §8.8 | AC Power Line Conducted Emissions | Compliant |
| FCC §2.1053, §15.205, §15.209, 15.407(b) IC RSS-247 §6.2 | Spurious Radiated Emissions | Compliant |
| FCC §15.407(e) IC RSS-Gen §6.2 | Emission Bandwidth | Compliant |
| FCC §407(a) IC RSS-247 §6.2 | Output Power | Compliant |
| FCC §2.1051, §15.407(b) IC RSS-247 §6.2 | Band Edges | Compliant |
| FCC §15.407(a)(5) IC RSS-247 §6.2 | Power Spectral Density | Compliant |
| FCC §2.1051, §15.407(b) IC RSS-247 §6.2 | Spurious Emissions at Antenna Terminals | Compliant |
| FCC §15.407(h) IC RSS-247 §6.3 | Dynamic Frequency Selection (DFS) | Compliant ² |

Note¹: RF exposure analysis is covered in a separate report.

Note²: DFS measurement is recorded in a separate report.

4 FCC §2.1093, §15.407(f) & IC RSS-102 - RF Exposure

4.1 Applicable Standard

FCC §2.1093, §15.407(f) & IC RSS-102

4.2 Test Results

Please refer to the SAR Report: R1511101- SAR.

5 FCC §15.203 & IC RSS-Gen §8.3 - Antenna Requirements

5.1 Applicable Standards

According to FCC §15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

And according to FCC §15.247 (b) (4), if transmitting antennas of directional gain greater than 6 dBi are used the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

According to IC RSS-Gen §8.3: Transmitter Antenna

The applicant for equipment certification, as per RSP-100, must provide a list of all antenna types that may be used with the licence-exempt transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna.

Licence-exempt transmitters that have received equipment certification may operate with different types of antennas. However, it is not permissible to exceed the maximum equivalent isotropically radiated power (e.i.r.p.) limits specified in the applicable standard (RSS) for the licence-exempt apparatus.

Testing shall be performed using the highest gain antenna of each combination of licence-exempt transmitter and antenna type, with the transmitter output power set at the maximum level.⁹ When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna manufacturer.

User manuals for transmitters equipped with detachable antennas shall also contain the following notice in a conspicuous location:

This radio transmitter (identify the device by certification number) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types approved for use with the transmitter, indicating the maximum permissible antenna gain (in dBi).

5.2 Antenna List

The antennas used by the EUT are permanent attached antennas.

| Antenna Chain | Antenna Gain (dBi) | | |
|-------------------|--------------------|---------------|---------------|
| | 5150-5350 MHz | 5470-5725 MHz | 5725-5850 MHz |
| Wi-Fi 0/Bluetooth | 2.7 | 2.7 | 3.5 |
| Wi-Fi 1 | 0.2 | 2.3 | 1.9 |

6 FCC §15.207 & IC RSS-Gen §8.8 - AC Power Line Conducted Emissions

6.1 Applicable Standards

As per FCC §15.207 & IC RSS GEN §8.8

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequencies ranges.

| Frequency of Emission (MHz) | Conducted Limit (dBuV) | |
|--------------------------------|------------------------|-----------------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56 Note 1 | 56 to 46 Note 1 |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

Note 1 Decreases with the logarithm of the frequency.

6.2 Test Setup

The measurement was performed at shield room, using the setup per ANSI C63.10-2013 measurement procedure. The specification used was FCC §15.207 limits & & IC RSS GEN §8.8.

External I/O cables were draped along the edge of the test table and bundle when necessary. The AC/DC power adapter of the EUT was connected with LISN-1 which provided 120 V / 60 Hz AC power.

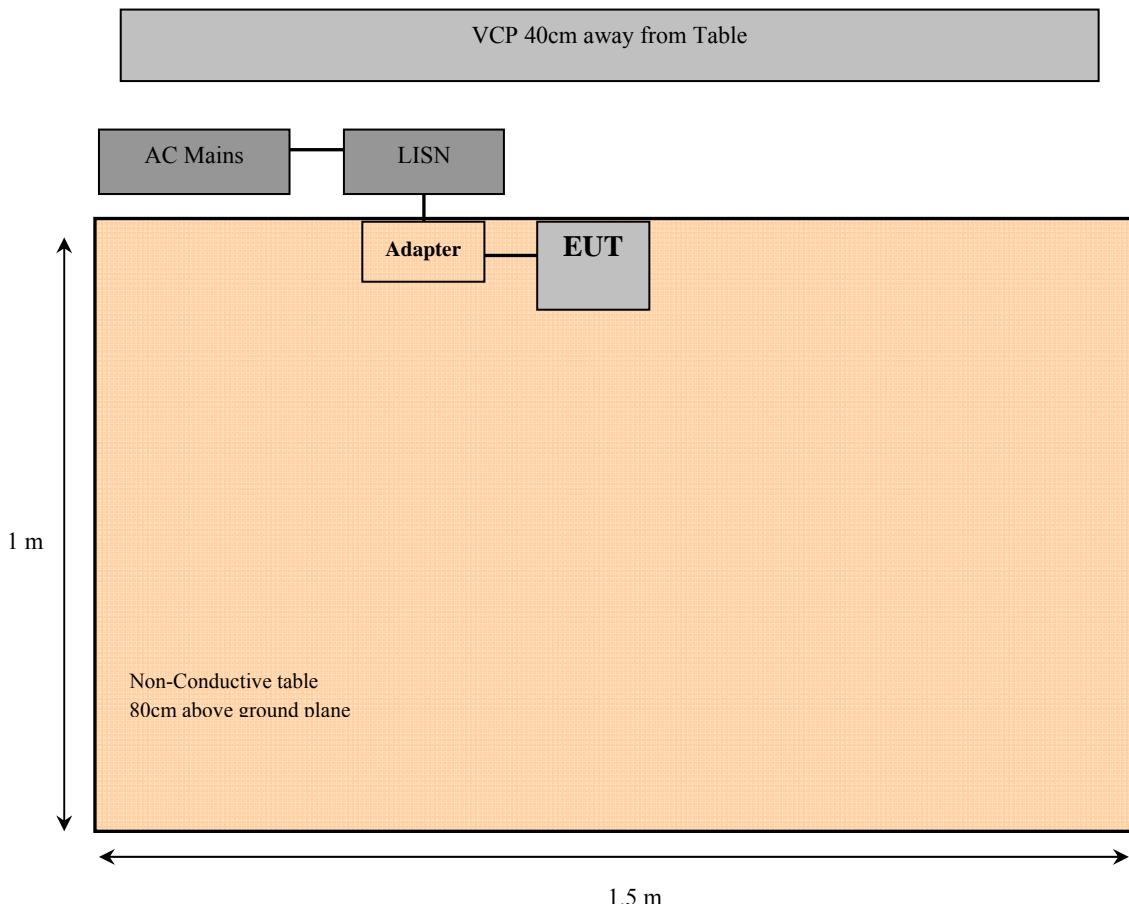
6.3 Test Procedure

During the conducted emissions test, the power cord of the EUT host system was connected to the mains outlet of the LISN-1 and the power cords of support equipment were connected to LISN-2.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the peak, quasi-peak, and average detection mode. Quasi-Peak readings are distinguished with a “QP.” Average readings are distinguished with an “Ave”.

6.4 Test Setup Block Diagram



6.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude (CA) is calculated by adding the Cable Loss (CL), the Attenuator Factor (Atten) to indicated Amplitude (Ai) reading. The basic equation is as follows:

$$CA = Ai + CL + Atten$$

For example, a corrected amplitude of 46.2 dBuV = Indicated Reading (32.5 dBuV) + Cable Loss (3.7 dB) + Attenuator (10 dB)

The “Margin” column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of -7 dB means the emission is 7 dB below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corrected Amplitude} - \text{Limit}$$

6.6 Test Equipment List and Details

| Manufacturer | Description | Model No. | Serial No. | Calibration Date | Calibration Interval |
|---------------------------|---------------------------------|-------------------|------------|------------------|----------------------|
| Rohde & Schwarz | EMI Test Receiver | ESCI 1166.5950K03 | 100044 | 2015-07-23 | 1 year |
| Rohde & Schwarz | Impulse Limiter | ESH3-Z2 | 101963 | 2015-07-15 | 1 year |
| Keysight Technologies | RF Limiter | 11867A | MY42242932 | 2015-12-15 | 1 year |
| Solar Electronics Company | High Pass Filter | Type 7930-100 | 7930150204 | 2015-03-06 | 1 Year |
| Suirong | 30 ft conductive emission cable | LMR 400 | - | 2015-03-05 | 1 year |

Statement of Traceability: **BACL Corp.** attests that all calibrations have been performed per the A2LA requirements, traceable to the NIST.

6.7 Test Environmental Conditions

| | |
|---------------------------|-----------------|
| Temperature: | 22-24° C |
| Relative Humidity: | 40-41 % |
| ATM Pressure: | 103.1-104.1 kPa |

The testing was performed by Todd Moy on 2016-01-20 at 5 meter 3.

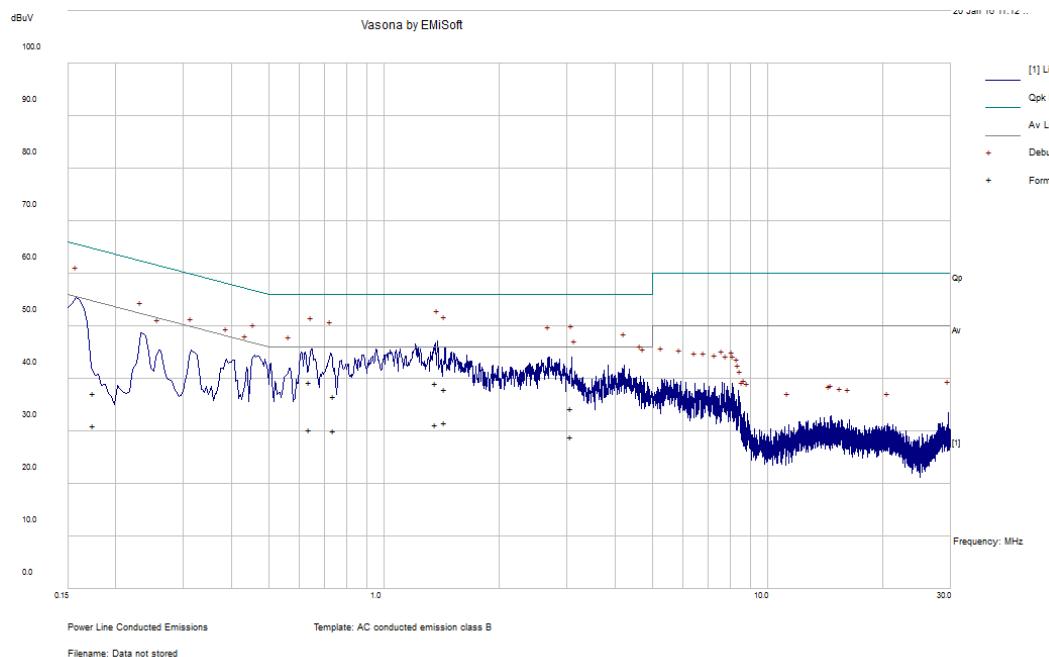
6.8 Summary of Test Results

According to the recorded data in following table, the EUT complied with the FCC Part 15 and RSS-Gen standard's conducted emissions limits, with the margin reading of:

| Connection: AC/DC adapter connected to 120 V/60 Hz, AC | | | |
|--|-----------------|-------------------------------|-------------|
| Margin (dB) | Frequency (MHz) | Conductor Mode (Live/Neutral) | Range (MHz) |
| -13.07 | 0.455911 | Neutral | 0.15-30 |

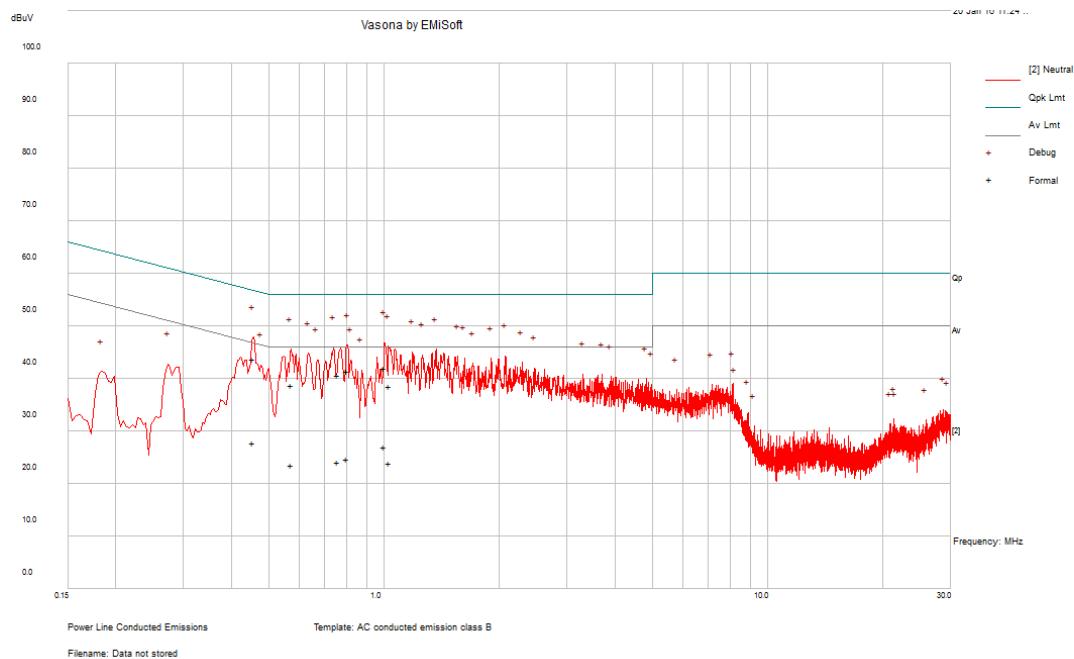
6.9 Conducted Emissions Test Plots and Data

120 V, 60 Hz – Line



| Frequency (MHz) | Corrected Amplitude (dB μ V) | Conductor (Line/Neutral) | Limit (dB μ V) | Margin (dB) | Detector (QP/Ave.) |
|-----------------|----------------------------------|--------------------------|--------------------|-------------|--------------------|
| 1.366612 | 39.15 | Line | 56 | -16.85 | QP |
| 1.438507 | 37.99 | Line | 56 | -18.01 | QP |
| 0.174779 | 37.29 | Line | 64.73 | -27.44 | QP |
| 0.641016 | 39.43 | Line | 56 | -16.57 | QP |
| 0.738151 | 36.63 | Line | 56 | -19.37 | QP |
| 3.078009 | 34.41 | Line | 56 | -21.59 | QP |

| Frequency (MHz) | Corrected Amplitude (dB μ V) | Conductor (Line/Neutral) | Limit (dB μ V) | Margin (dB) | Detector (QP/Ave.) |
|-----------------|----------------------------------|--------------------------|--------------------|-------------|--------------------|
| 1.366612 | 31.36 | Line | 46 | -14.64 | Ave. |
| 1.438507 | 31.72 | Line | 46 | -14.28 | Ave. |
| 0.174779 | 31.15 | Line | 54.73 | -23.58 | Ave. |
| 0.641016 | 30.24 | Line | 46 | -15.76 | Ave. |
| 0.738151 | 30.17 | Line | 46 | -15.83 | Ave. |
| 3.078009 | 29.04 | Line | 46 | -16.96 | Ave. |

120 V, 60 Hz – Neutral

| Frequency (MHz) | Corrected Amplitude (dB μ V) | Conductor (Line/Neutral) | Limit (dB μ V) | Margin (dB) | Detector (QP/Ave.) |
|-----------------|----------------------------------|--------------------------|--------------------|-------------|--------------------|
| 0.455911 | 43.69 | Neutral | 56.77 | -13.07 | QP |
| 1.002372 | 42.12 | Neutral | 56 | -13.88 | QP |
| 0.798477 | 41.47 | Neutral | 56 | -14.53 | QP |
| 1.032429 | 38.6 | Neutral | 56 | -17.4 | QP |
| 0.756983 | 40.67 | Neutral | 56 | -15.33 | QP |
| 0.573064 | 38.87 | Neutral | 56 | -17.13 | QP |

| Frequency (MHz) | Corrected Amplitude (dB μ V) | Conductor (Line/Neutral) | Limit (dB μ V) | Margin (dB) | Detector (QP/Ave.) |
|-----------------|----------------------------------|--------------------------|--------------------|-------------|--------------------|
| 0.455911 | 27.86 | Neutral | 46.77 | -18.9 | Ave. |
| 1.002372 | 26.98 | Neutral | 46 | -19.02 | Ave. |
| 0.798477 | 24.79 | Neutral | 46 | -21.21 | Ave. |
| 1.032429 | 24.06 | Neutral | 46 | -21.94 | Ave. |
| 0.756983 | 24.23 | Neutral | 46 | -21.77 | Ave. |
| 0.573064 | 23.68 | Neutral | 46 | -22.32 | Ave. |

7 FCC §15.209, §15.407(b) & IC RSS-247 §6.2 - Spurious Radiated Emissions

7.1 Applicable Standard

As Per FCC §15.205(a) except as show in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|---------------------|-----------------------|-----------------|---------------|
| 0.090 – 0.110 | 16.42 – 16.423 | 960 – 1240 | 4.5 – 5.15 |
| 0.495 – 0.505 | 16.69475 – 16.69525 | 1300 – 1427 | 5.35 – 5.46 |
| 2.1735 – 2.1905 | 25.5 – 25.67 | 1435 – 1626.5 | 7.25 – 7.75 |
| 4.125 – 4.128 | 37.5 – 38.25 | 1645.5 – 1646.5 | 8.025 – 8.5 |
| 4.17725 – 4.17775 | 73 – 74.6 | 1660 – 1710 | 9.0 – 9.2 |
| 4.20725 – 4.20775 | 74.8 – 75.2 | 1718.8 – 1722.2 | 9.3 – 9.5 |
| 6.215 – 6.218 | 108 – 121.94 | 2200 – 2300 | 10.6 – 12.7 |
| 6.26775 – 6.26825 | 123 – 138 | 2310 – 2390 | 13.25 – 13.4 |
| 6.31175 – 6.31225 | 149.9 – 150.05 | 2483.5 – 2500 | 14.47 – 14.5 |
| 8.291 – 8.294 | 156.52475 – 156.52525 | 2690 – 2900 | 15.35 – 16.2 |
| 8.362 – 8.366 | 156.7 – 156.9 | 3260 – 3267 | 17.7 – 21.4 |
| 8.37625 – 8.38675 | 162.0125 – 167.17 | 3.332 – 3.339 | 22.01 – 23.12 |
| 8.41425 – 8.41475 | 167.72 – 173.2 | 3.3458 – 3.358 | 23.6 – 24.0 |
| 12.29 – 12.293 | 240 – 285 | 3.600 – 4.400 | 31.2 – 31.8 |
| 12.51975 – 12.52025 | 322 – 335.4 | | 36.43 – 36.5 |
| 12.57675 – 12.57725 | 399.9 – 410 | | Above 38.6 |
| 13.36 – 13.41 | 608 – 614 | | |

As per FCC §15.209: The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table

| Frequency (MHz) | Field Strength (micro volts/meter) | Measurement Distance (meters) |
|-----------------|------------------------------------|-------------------------------|
| 0.009 - 0.490 | 2400/F(kHz) | 300 |
| 0.490 - 1.705 | 24000/F(kHz) | 30 |
| 1.705 - 30.0 | 30 | 30 |
| 30 - 88 | 100 Note 1 | 3 |
| 88 - 216 | 150 Note 1 | 3 |
| 216 - 960 | 200 Note 1 | 3 |
| Above 960 | 500 | 3 |

Note 1: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

As per FCC Part 15.407 (b)

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47 -5.725 GHz band: All emissions outside of the 5.47-5725 GHz band shall not exceed an ei.r.p. of -27 dBm/MHz.

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

(5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

(6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.

(7) The provisions of §15.205 apply to intentional radiators operating under this section.

As per IC RSS-247 §6.2

For transmitters operating in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. However, any unwanted emissions that fall into the band 5250- 5350 MHz must be 26 dBc, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth, above 5.25 GHz. Otherwise, the transmission is considered as intentional and the devices shall implement dynamic frequency selection (DFS) and transmitter power control (TPC) as per the requirements for the band 5250-5350 MHz

For devices with both operating frequencies and channel bandwidths contained within the band 5250-5350 MHz, the device shall comply with the following:

1. All emissions outside the band 5250-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. if the equipment is intended for outdoor use; or
2. All emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. and any emissions within the band 5150-5250 MHz shall meet the power spectral density limits of Section 6.2.1. The device shall be labelled “for indoor use only.”

For devices with operating frequencies in the band 5250-5350 MHz but having a channel bandwidth that overlaps the band 5150-5250 MHz, the devices’ unwanted emission shall not exceed -27 dBm/MHz e.i.r.p. outside the band 5150-5350 MHz and its power shall comply with the spectral power density for operation within the band 5150-5250 MHz. The device shall be labelled “for indoor use only.”

For transmitters operating in the band 5470-5725 MHz, emissions outside the band shall not exceed -27 dBm/MHz e.i.r.p.

For the band 5725-5850 MHz, emissions at frequencies from the band edges to 10 MHz above or below the band edges shall not exceed -17 dBm/MHz e.i.r.p. For emissions at frequencies more than 10 MHz above or below the band edges, the emissions power shall not exceed -27 dBm/MHz.

7.2 Test Setup

The radiated emissions tests were performed in the 5-meter Chamber, using the setup in accordance with ANSI C63.10-2013. The specification used was the FCC 15.407 and IC RSS-247 limits.

The spacing between the peripherals was 10 centimeters.

External I/O cables were draped along the edge of the test table and bundle when necessary.

7.3 Test Procedure

For the radiated emissions test, the EUT host, and all support equipment power cords were connected to the AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The EUT is set 3 meter away from the testing antenna, which is varied from 1-4 meter, and the EUT is placed on a turntable, which is 0.8 meter or 1.5 meter above ground plane, the table shall be rotated for 360 degrees to find out the highest emission. The receiving antenna should be changed the polarization both of horizontal and vertical.

The spectrum analyzer or receiver is set as:

Below 1000 MHz:

$$\text{RBW} = 100 \text{ kHz} / \text{VBW} = 300 \text{ kHz} / \text{Sweep} = \text{Auto}$$

Above 1000 MHz:

- (1) Peak: $\text{RBW} = 1\text{MHz} / \text{VBW} = 3\text{MHz} / \text{Sweep} = 100\text{ms}$
- (2) Average: $\text{RBW} = 1\text{MHz} / \text{VBW} = 10\text{Hz} / \text{Sweep} = \text{Auto}$

7.4 Corrected Amplitude & Margin Calculation

The Corrected Amplitude (CA) is calculated by adding the Antenna Factor (AF), the Cable Loss (CL), the Attenuator Factor (Atten) and subtracting the Amplifier Gain (Ga) to indicated Amplitude (Ai) reading. The basic equation is as follows:

$$\text{CA} = \text{Ai} + \text{AF} + \text{CL} + \text{Atten} - \text{Ga}$$

For example, a corrected amplitude of 40.3 dBuV/m = Indicated Reading (32.5 dBuV) + Antenna Factor (+23.5dB) + Cable Loss (3.7 dB) + Attenuator (10 dB) - Amplifier Gain (29.4 dB)

The “Margin” column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of -7 dB means the emission is 7 dB below the maximum limit for Class A. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corrected Amplitude} - \text{Limit}$$

7.5 Test Equipment List and Details

| Manufacturer | Description | Model No. | Serial No. | Calibration Date | Calibration Interval |
|--------------------|-------------------------------------|-------------------|-------------------|------------------------|----------------------|
| Rohde & Schwarz | Receiver, EMI Test | ESCI 1166.5950K03 | 100044 | 2015-07-23 | 1 year |
| Agilent | Analyzer, Spectrum | E4440A | MY44303352 | 2015-06-22 | 1 year |
| Sunol Science Corp | System Controller | SC99V | 011003-1 | N/R | N/R |
| Sunol Sciences | Antenna, Biconi-Log | JB3 | A020106-2 | 2015-07-11 | 2 Years |
| EMCO | Antenna, Horn | 3115 | 9511-4627 | 2016-01-28 | 2 years |
| Agilent | Amplifier, Pre | 8447D | 2944A10187 | 2015-03-20 | 1 year |
| Suirong | 30 ft conductive emission cable | LMR 400 | - | 2015-03-05 | 1 year |
| - | SMA cable | - | C0002 | Each time ¹ | N/A |
| IW Microwave | High Frequency Cable | DC-1438 | SPS-2303-3840-SPS | 2016-01-18 | 1 year |
| IW | AOBOR Hi frequency Co AX CabelCable | DC 1531 | KPS-1501A3960K PS | 2015-08-10 | 1 Year |
| Hewlett-Packard | 5 ft N-type RF cable | - | 1268 | 2015-05-15 | 1 year |
| Hewlett | Pre-Amplifier | 8449B | 3008A01978 | 2015-03-11 | 1year |
| Wisrowave | Antenna, Horn | ARH-4223-02 | 10555-02 | 2013-09-20 | 3 year |
| Wisrowave | Antenna, Horn | ARH-2823-02 | 10555-02 | 2013-09-20 | 3 year |
| Wisrowave | Amplifier, Low Noise | ALN-33144030-01 | 11424-01 | 2015-04-28 | 2 year |
| Wisrowave | Amplifier, Low Noise | ALN-22093530-01 | 12263-01 | 2015-04-28 | 1 year |

Statement of Traceability: BACL attests that all calibrations have been performed per the A2LA requirements, traceable to NIST.

7.6 Test Environmental Conditions

| | |
|---------------------------|-----------------|
| Temperature: | 22-24 °C |
| Relative Humidity: | 40-41 % |
| ATM Pressure: | 103.1-104.1 kPa |

The testing was performed by Leonard Grey and Todd Moy from 2016-01-11 to 2016-01-25 at 5 meter 3.

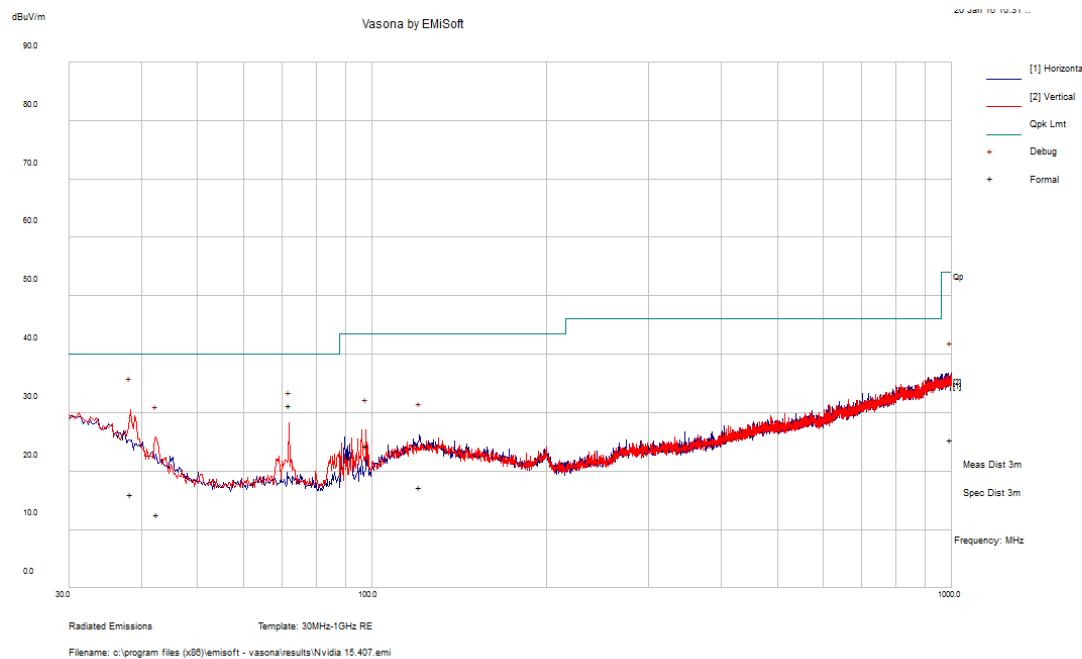
7.7 Summary of Test Results

According to the data hereinafter, the EUT complied with the FCC Part 15.407 and RSS-247 standard's radiated emissions limits, and had the worst margin of:

| Mode: Transmitting | | | |
|---------------------------|----------------------------|---|--------------------------|
| Margin (dB) | Frequency (MHz) | Polarization (Horizontal/Vertical) | Mode, Channel |
| -0.20 | 5725 | Horizontal | a mode chain 1, 5700 MHz |

7.8 Radiated Emissions Test Result Data

1) 30 MHz – 1 GHz



| Frequency (MHz) | Corrected Amplitude (dBμV/m) | Antenna Height (cm) | Antenna Polarity (H/V) | Turtable Azimuth (degrees) | Limit (dBμV/m) | Margin (dB) | Comments (PK/QP/Ave.) |
|----------------------------|--|------------------------------------|---------------------------------------|---|--|------------------------|----------------------------------|
| 38.3895 | 16.06 | 267 | V | 91 | 40 | -23.94 | QP |
| 72 | 31.3 | 279 | V | 302 | 40 | -8.7 | QP |
| 42.56725 | 12.65 | 223 | V | 174 | 40 | -27.35 | QP |
| 97.657 | 24.36 | 297 | V | 4 | 43.5 | -19.14 | QP |
| 120.6453 | 17.23 | 100 | H | 97 | 43.5 | -26.27 | QP |
| 997.3293 | 25.36 | 172 | H | 3 | 54 | -28.64 | QP |

2) 1–40 GHz**5150 - 5250 MHz**

802.11a mode chain 1

| Frequency (MHz) | S.A. Reading (dB μ V) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre- Amp. (dB) | Cord. Reading (dB μ V/m) | FCC/IC | | Comments (PK/Ave.) |
|-------------------------|---------------------------------|-----------------------------------|----------------|-------------------|------------------|-----------------------|----------------------|------------------------------------|-------------------------|----------------|-----------------------|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dB μ V/m) | Margin (dB) | |
| Low Channel 5180 MHz | | | | | | | | | | | |
| 5180 | 62.54 | 204 | 246 | V | 33.61 | 5.64 | 0.00 | 101.79 | - | - | Peak |
| 5180 | 61.84 | 234 | 160 | H | 33.61 | 5.64 | 0.00 | 101.09 | - | - | Peak |
| 5180 | 51.47 | 204 | 233 | V | 33.61 | 5.64 | 0.00 | 90.72 | - | - | Ave |
| 5180 | 50.64 | 308 | 142 | H | 33.61 | 5.64 | 0.00 | 89.89 | - | - | Ave |
| 5150 | 27.03 | 0 | 100 | V | 33.61 | 5.64 | 0.00 | 66.28 | 74 | -7.72 | Peak |
| 5150 | 27.08 | 0 | 100 | H | 33.61 | 5.64 | 0.00 | 66.33 | 74 | -7.67 | Peak |
| 5150 | 12.77 | 0 | 100 | V | 33.61 | 5.64 | 0.00 | 52.02 | 54 | -1.98 | Ave |
| 5150 | 12.76 | 0 | 100 | H | 33.61 | 5.64 | 0.00 | 52.01 | 54 | -1.99 | Ave |
| 10360 | 41.83 | 0 | 100 | V | 38.25 | 9.43 | 34.41 | 55.11 | 68.26 | -13.15 | Peak |
| 10360 | 41.70 | 0 | 100 | H | 38.25 | 9.43 | 34.41 | 54.98 | 68.26 | -13.28 | Peak |
| 15540 | 48.09 | 0 | 100 | V | 39.18 | 10.83 | 33.73 | 64.37 | 74 | -9.63 | Peak |
| 15540 | 47.98 | 0 | 100 | H | 39.18 | 10.83 | 33.73 | 64.26 | 74 | -9.74 | Peak |
| 15540 | 33.22 | 0 | 100 | V | 39.18 | 10.83 | 33.73 | 49.50 | 54 | -4.50 | Ave |
| 15540 | 33.28 | 0 | 100 | H | 39.18 | 10.83 | 33.73 | 49.56 | 54 | -4.44 | Ave |
| Middle Channel 5200 MHz | | | | | | | | | | | |
| 5200 | 63.05 | 204 | 276 | V | 33.61 | 5.64 | 0.00 | 102.30 | - | - | Peak |
| 5200 | 62.41 | 236 | 151 | H | 33.61 | 5.64 | 0.00 | 101.66 | - | - | Peak |
| 5200 | 52.02 | 205 | 192 | V | 33.61 | 5.64 | 0.00 | 91.27 | - | - | Ave |
| 5200 | 50.02 | 201 | 139 | H | 33.61 | 5.64 | 0.00 | 89.27 | - | - | Ave |
| 10400 | 39.37 | 0 | 100 | V | 38.25 | 9.43 | 34.41 | 52.65 | 68.26 | -15.61 | Peak |
| 10400 | 39.71 | 0 | 100 | H | 38.25 | 9.43 | 34.41 | 52.99 | 68.26 | -15.27 | Peak |
| 15600 | 45.07 | 0 | 100 | V | 39.18 | 10.83 | 33.73 | 61.36 | 74 | -12.64 | Peak |
| 15600 | 45.81 | 0 | 100 | H | 39.18 | 10.83 | 33.73 | 62.10 | 74 | -11.90 | Peak |
| 15600 | 31.71 | 0 | 100 | V | 39.18 | 10.83 | 33.73 | 48.00 | 54 | -6.00 | Ave |
| 15600 | 31.78 | 0 | 100 | H | 39.18 | 10.83 | 33.73 | 48.07 | 54 | -5.93 | Ave |
| High Channel 5240 MHz | | | | | | | | | | | |
| 5240 | 62.43 | 200 | 152 | V | 33.61 | 5.64 | 0.00 | 101.68 | - | - | Peak |
| 5240 | 61.54 | 231 | 234 | H | 33.61 | 5.64 | 0.00 | 100.79 | - | - | Peak |
| 5240 | 51.78 | 192 | 200 | V | 33.61 | 5.64 | 0.00 | 91.03 | - | - | Ave |
| 5240 | 48.17 | 199 | 131 | H | 33.61 | 5.64 | 0.00 | 87.42 | - | - | Ave |
| 10480 | 40.02 | 0 | 100 | V | 38.33 | 10.07 | 34.40 | 54.02 | 68.26 | -14.24 | Peak |
| 10480 | 40.70 | 0 | 100 | H | 38.33 | 10.07 | 34.40 | 54.70 | 68.26 | -13.56 | Peak |
| 15720 | 46.93 | 0 | 100 | V | 39.18 | 10.83 | 33.89 | 63.05 | 74 | -10.95 | Peak |
| 15720 | 46.68 | 0 | 100 | H | 39.18 | 10.83 | 33.89 | 62.80 | 74 | -11.20 | Peak |
| 15720 | 33.16 | 0 | 100 | V | 39.18 | 10.83 | 33.89 | 49.28 | 54 | -4.72 | Ave |
| 15720 | 33.22 | 0 | 100 | H | 39.18 | 10.83 | 33.89 | 49.34 | 54 | -4.66 | Ave |

802.11a mode chain 2

| Frequency (MHz) | S.A. Reading (dB μ V) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre- Amp. (dB) | Cord. Reading (dB μ V/m) | FCC/IC | | Comments (PK/Ave.) |
|-------------------------|---------------------------------|-----------------------------------|----------------|-------------------|------------------|-----------------------|----------------------|------------------------------------|-------------------------|----------------|-----------------------|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dB μ V/m) | Margin (dB) | |
| Low Channel 5180 MHz | | | | | | | | | | | |
| 5180 | 61.64 | 277 | 285 | V | 33.61 | 5.64 | 0.00 | 100.89 | - | - | Peak |
| 5180 | 59.09 | 178 | 203 | H | 33.61 | 5.64 | 0.00 | 98.34 | - | - | Peak |
| 5180 | 50.91 | 197 | 202 | V | 33.61 | 5.64 | 0.00 | 90.16 | - | - | Ave |
| 5180 | 49.83 | 236 | 237 | H | 33.61 | 5.64 | 0.00 | 89.08 | - | - | Ave |
| 5150 | 26.5 | 277 | 285 | V | 33.61 | 5.64 | 0.00 | 65.75 | 74 | -8.25 | Peak |
| 5150 | 26.81 | 178 | 203 | H | 33.61 | 5.64 | 0.00 | 66.06 | 74 | -7.94 | Peak |
| 5150 | 12.81 | 197 | 202 | V | 33.61 | 5.64 | 0.00 | 52.06 | 54 | -1.94 | Ave |
| 5150 | 12.81 | 236 | 237 | H | 33.61 | 5.64 | 0.00 | 52.06 | 54 | -1.94 | Ave |
| 10360 | 40.85 | 0 | 100 | V | 38.25 | 9.43 | 34.41 | 54.13 | 68.26 | -14.13 | Peak |
| 10360 | 40.16 | 0 | 100 | H | 38.25 | 9.43 | 34.41 | 53.44 | 68.26 | -14.82 | Peak |
| 15540 | 46.40 | 0 | 100 | V | 39.18 | 10.83 | 33.73 | 62.68 | 74 | -11.32 | Peak |
| 15540 | 46.41 | 0 | 100 | H | 39.18 | 10.83 | 33.73 | 62.69 | 74 | -11.31 | Peak |
| 15540 | 33.08 | 0 | 100 | V | 39.18 | 10.83 | 33.73 | 49.36 | 54 | -4.64 | Ave |
| 15540 | 33.10 | 0 | 100 | H | 39.18 | 10.83 | 33.73 | 49.38 | 54 | -4.62 | Ave |
| Middle Channel 5200 MHz | | | | | | | | | | | |
| 5200 | 63.49 | 254 | 194 | V | 33.61 | 5.64 | 0.00 | 102.74 | - | - | Peak |
| 5200 | 63.19 | 230 | 217 | H | 33.61 | 5.64 | 0.00 | 102.44 | - | - | Peak |
| 5200 | 52.68 | 254 | 240 | V | 33.61 | 5.64 | 0.00 | 91.93 | - | - | Ave |
| 5200 | 52.15 | 233 | 121 | H | 33.61 | 5.64 | 0.00 | 91.40 | - | - | Ave |
| 10400 | 39.93 | 0 | 100 | V | 38.25 | 9.43 | 34.41 | 53.21 | 68.26 | -15.05 | Peak |
| 10400 | 39.31 | 0 | 100 | H | 38.25 | 9.43 | 34.41 | 52.59 | 68.26 | -15.67 | Peak |
| 15600 | 45.84 | 0 | 100 | V | 39.18 | 10.83 | 33.73 | 62.13 | 74 | -11.87 | Peak |
| 15600 | 45.92 | 0 | 100 | H | 39.18 | 10.83 | 33.73 | 62.21 | 74 | -11.79 | Peak |
| 15600 | 31.84 | 0 | 100 | V | 39.18 | 10.83 | 33.73 | 48.13 | 54 | -5.87 | Ave |
| 15600 | 31.86 | 0 | 100 | H | 39.18 | 10.83 | 33.73 | 48.15 | 54 | -5.85 | Ave |
| High Channel 5240 MHz | | | | | | | | | | | |
| 5240 | 61.17 | 199 | 115 | V | 33.61 | 5.64 | 0.00 | 100.42 | - | - | Peak |
| 5240 | 60.4 | 234 | 254 | H | 33.61 | 5.64 | 0.00 | 99.65 | - | - | Peak |
| 5240 | 50.36 | 11 | 192 | V | 33.61 | 5.64 | 0.00 | 89.61 | - | - | Ave |
| 5240 | 49.75 | 235 | 129 | H | 33.61 | 5.64 | 0.00 | 89.00 | - | - | Ave |
| 10480 | 40.11 | 0 | 100 | V | 38.33 | 10.07 | 34.40 | 54.11 | 68.26 | -14.15 | Peak |
| 10480 | 41.12 | 0 | 100 | H | 38.33 | 10.07 | 34.40 | 55.12 | 68.26 | -13.14 | Peak |
| 15720 | 47.09 | 0 | 100 | V | 39.18 | 10.83 | 33.89 | 63.21 | 74 | -10.79 | Peak |
| 15720 | 47.53 | 0 | 100 | H | 39.18 | 10.83 | 33.89 | 63.65 | 74 | -10.35 | Peak |
| 15720 | 33.34 | 0 | 100 | V | 39.18 | 10.83 | 33.89 | 49.46 | 54 | -4.54 | Ave |
| 15720 | 33.38 | 0 | 100 | H | 39.18 | 10.83 | 33.89 | 49.50 | 54 | -4.50 | Ave |

802.11n20 mode

| Frequency (MHz) | S.A. Reading (dB μ V) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre- Amp. (dB) | Cord. Reading (dB μ V/m) | FCC/IC | | Comments (PK/Ave.) |
|-------------------------|---------------------------------|-----------------------------------|----------------|-------------------|------------------|-----------------------|----------------------|------------------------------------|-------------------------|----------------|-----------------------|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dB μ V/m) | Margin (dB) | |
| Low Channel 5180 MHz | | | | | | | | | | | |
| 5180 | 66.61 | 268 | 274 | V | 33.61 | 5.64 | 0.00 | 105.86 | - | - | Peak |
| 5180 | 66.21 | 251 | 100 | H | 33.61 | 5.64 | 0.00 | 105.46 | - | - | Peak |
| 5180 | 52.46 | 266 | 277 | V | 33.61 | 5.64 | 0.00 | 91.71 | - | - | Ave |
| 5180 | 50.26 | 170 | 196 | H | 33.61 | 5.64 | 0.00 | 89.51 | - | - | Ave |
| 5150 | 26.34 | 268 | 274 | V | 33.61 | 5.64 | 0.00 | 65.59 | 74 | -8.41 | Peak |
| 5150 | 26.98 | 251 | 100 | H | 33.61 | 5.64 | 0.00 | 66.23 | 74 | -7.77 | Peak |
| 5150 | 12.22 | 266 | 277 | V | 33.61 | 5.64 | 0.00 | 51.47 | 54 | -2.53 | Ave |
| 5150 | 13.88 | 251 | 100 | H | 33.61 | 5.64 | 0.00 | 53.13 | 54 | -0.87 | Ave |
| 10360 | 41.08 | 0 | 100 | V | 38.25 | 9.43 | 34.41 | 54.36 | 68.26 | -13.90 | Peak |
| 10360 | 41.61 | 0 | 100 | H | 38.25 | 9.43 | 34.41 | 54.89 | 68.26 | -13.37 | Peak |
| 15540 | 46.08 | 0 | 100 | V | 39.18 | 10.83 | 33.73 | 62.36 | 74 | -11.64 | Peak |
| 15540 | 47.33 | 0 | 100 | H | 39.18 | 10.83 | 33.73 | 63.61 | 74 | -10.39 | Peak |
| 15540 | 32.68 | 0 | 100 | V | 39.18 | 10.83 | 33.73 | 48.96 | 54 | -5.04 | Ave |
| 15540 | 32.66 | 0 | 100 | H | 39.18 | 10.83 | 33.73 | 48.94 | 54 | -5.06 | Ave |
| Middle Channel 5200 MHz | | | | | | | | | | | |
| 5200 | 66.48 | 251 | 195 | V | 33.61 | 5.64 | 0.00 | 105.73 | - | - | Peak |
| 5200 | 66.56 | 233 | 173 | H | 33.61 | 5.64 | 0.00 | 105.81 | - | - | Peak |
| 5200 | 54.89 | 249 | 240 | V | 33.61 | 5.64 | 0.00 | 94.14 | - | - | Ave |
| 5200 | 55.02 | 225 | 144 | H | 33.61 | 5.64 | 0.00 | 94.27 | - | - | Ave |
| 10400 | 39.59 | 0 | 100 | V | 38.25 | 9.43 | 34.41 | 52.87 | 68.26 | -15.39 | Peak |
| 10400 | 39.80 | 0 | 100 | H | 38.25 | 9.43 | 34.41 | 53.08 | 68.26 | -15.18 | Peak |
| 15600 | 46.33 | 0 | 100 | V | 39.18 | 10.83 | 33.73 | 62.62 | 74 | -11.38 | Peak |
| 15600 | 45.84 | 0 | 100 | H | 39.18 | 10.83 | 33.73 | 62.13 | 74 | -11.87 | Peak |
| 15600 | 31.49 | 0 | 100 | V | 39.18 | 10.83 | 33.73 | 47.78 | 54 | -6.22 | Ave |
| 15600 | 31.51 | 0 | 100 | H | 39.18 | 10.83 | 33.73 | 47.80 | 54 | -6.20 | Ave |
| High Channel 5240 MHz | | | | | | | | | | | |
| 5240 | 66.09 | 253 | 211 | V | 33.61 | 5.64 | 0.00 | 105.34 | - | - | Peak |
| 5240 | 66.67 | 229 | 159 | H | 33.61 | 5.64 | 0.00 | 105.92 | - | - | Peak |
| 5240 | 54.76 | 251 | 233 | V | 33.61 | 5.64 | 0.00 | 94.01 | - | - | Ave |
| 5240 | 54.74 | 229 | 122 | H | 33.61 | 5.64 | 0.00 | 93.99 | - | - | Ave |
| 10480 | 40.48 | 0 | 100 | V | 38.33 | 10.07 | 34.40 | 54.48 | 68.26 | -13.78 | Peak |
| 10480 | 40.67 | 0 | 100 | H | 38.33 | 10.07 | 34.40 | 54.67 | 68.26 | -13.59 | Peak |
| 15720 | 47.58 | 0 | 100 | V | 39.18 | 10.83 | 33.89 | 63.70 | 74 | -10.30 | Peak |
| 15720 | 47.24 | 0 | 100 | H | 39.18 | 10.83 | 33.89 | 63.36 | 74 | -10.64 | Peak |
| 15720 | 32.92 | 0 | 100 | V | 39.18 | 10.83 | 33.89 | 49.04 | 54 | -4.96 | Ave |
| 15720 | 32.89 | 0 | 100 | H | 39.18 | 10.83 | 33.89 | 49.01 | 54 | -4.99 | Ave |

802.11 n40 mode

| Frequency (MHz) | S.A. Reading (dB μ V) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre- Amp. (dB) | Cord. Reading (dB μ V/m) | FCC/IC | | Comments (PK/Ave.) |
|-----------------------|---------------------------------|-----------------------------------|----------------|-------------------|------------------|-----------------------|----------------------|------------------------------------|-------------------------|----------------|-----------------------|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dB μ V/m) | Margin (dB) | |
| Low Channel 5190 MHz | | | | | | | | | | | |
| 5190 | 63.8 | 283 | 237 | V | 33.51 | 5.26 | 0.00 | 102.57 | - | - | Peak |
| 5190 | 61.56 | 178 | 259 | H | 33.61 | 5.26 | 0.00 | 100.43 | - | - | Peak |
| 5190 | 51.42 | 278 | 300 | V | 33.51 | 5.26 | 0.00 | 90.19 | - | - | Ave |
| 5190 | 50.9 | 245 | 157 | H | 33.61 | 5.26 | 0.00 | 89.77 | - | - | Ave |
| 5150 | 29.33 | 192 | 273 | V | 33.51 | 5.26 | 0.00 | 68.10 | 74 | -5.90 | Peak |
| 5150 | 28.58 | 0 | 100 | H | 33.61 | 5.26 | 0.00 | 67.45 | 74 | -6.55 | Peak |
| 5150 | 13.9 | 260 | 155 | V | 33.51 | 5.26 | 0.00 | 52.67 | 54 | -1.33 | Ave |
| 5150 | 14.12 | 244 | 100 | H | 33.61 | 5.26 | 0.00 | 52.99 | 54 | -1.01 | Ave |
| 10380 | 46.48 | 0 | 100 | V | 38.25 | 9.43 | 34.41 | 59.76 | 68.26 | -8.50 | Peak |
| 10380 | 46.41 | 0 | 100 | H | 38.25 | 9.43 | 34.41 | 59.69 | 68.26 | -8.57 | Peak |
| 15570 | 40.87 | 0 | 100 | V | 39.18 | 10.83 | 33.73 | 57.15 | 74 | -16.85 | Peak |
| 15570 | 41.00 | 0 | 100 | H | 39.18 | 10.83 | 33.73 | 57.28 | 74 | -16.72 | Peak |
| 15570 | 26.67 | 0 | 100 | V | 39.18 | 10.83 | 33.73 | 42.95 | 54 | -11.05 | Ave |
| 15570 | 26.69 | 0 | 100 | H | 39.18 | 10.83 | 33.73 | 42.97 | 54 | -11.03 | Ave |
| High Channel 5230 MHz | | | | | | | | | | | |
| 5230 | 63.81 | 253 | 190 | V | 33.51 | 5.26 | 0.00 | 102.58 | - | - | Peak |
| 5230 | 64.03 | 229 | 178 | H | 33.61 | 5.26 | 0.00 | 102.90 | - | - | Peak |
| 5230 | 51.24 | 254 | 301 | V | 33.51 | 5.26 | 0.00 | 90.01 | - | - | Ave |
| 5230 | 51.21 | 234 | 118 | H | 33.61 | 5.26 | 0.00 | 90.08 | - | - | Ave |
| 10460 | 40.68 | 0 | 100 | V | 38.25 | 9.43 | 34.41 | 53.95 | 68.26 | -14.31 | Peak |
| 10460 | 40.94 | 0 | 100 | H | 38.25 | 9.43 | 34.41 | 54.21 | 68.26 | -14.05 | Peak |
| 15690 | 45.86 | 0 | 100 | V | 39.18 | 10.83 | 33.73 | 62.15 | 74 | -11.85 | Peak |
| 15690 | 46.83 | 0 | 100 | H | 39.18 | 10.83 | 33.73 | 63.12 | 74 | -10.88 | Peak |
| 15690 | 32.00 | 0 | 100 | V | 39.18 | 10.83 | 33.73 | 48.29 | 54 | -5.71 | Ave |
| 15690 | 31.96 | 0 | 100 | H | 39.18 | 10.83 | 33.73 | 48.25 | 54 | -5.75 | Ave |

802.11ac20 mode

| Frequency (MHz) | S.A. Reading (dB μ V) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre- Amp. (dB) | Cord. Reading (dB μ V/m) | FCC/IC | | Comments (PK/Ave.) |
|-------------------------|---------------------------------|-----------------------------------|----------------|-------------------|------------------|-----------------------|----------------------|------------------------------------|-------------------------|----------------|-----------------------|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dB μ V/m) | Margin (dB) | |
| Low Channel 5180 MHz | | | | | | | | | | | |
| 5180 | 65.66 | 287 | 189 | V | 33.61 | 5.64 | 0.00 | 104.91 | - | - | Peak |
| 5180 | 64.25 | 308 | 162 | H | 33.61 | 5.64 | 0.00 | 103.50 | - | - | Peak |
| 5180 | 53.13 | 281 | 239 | V | 33.61 | 5.64 | 0.00 | 92.38 | - | - | Ave |
| 5180 | 51.79 | 255 | 148 | H | 33.61 | 5.64 | 0.00 | 91.04 | - | - | Ave |
| 5150 | 27.9 | 0 | 100 | V | 33.61 | 5.64 | 0.00 | 67.15 | 74 | -6.85 | Peak |
| 5150 | 27.65 | 0 | 100 | H | 33.61 | 5.64 | 0.00 | 66.90 | 74 | -7.10 | Peak |
| 5150 | 12.69 | 0 | 100 | V | 33.61 | 5.64 | 0.00 | 51.94 | 54 | -2.06 | Ave |
| 5150 | 12.61 | 0 | 100 | H | 33.61 | 5.64 | 0.00 | 51.86 | 54 | -2.14 | Ave |
| 10360 | 40.68 | 0 | 100 | V | 38.25 | 9.43 | 34.41 | 53.96 | 68.26 | -14.30 | Peak |
| 10360 | 40.79 | 0 | 100 | H | 38.25 | 9.43 | 34.41 | 54.07 | 68.26 | -14.19 | Peak |
| 15540 | 45.07 | 0 | 100 | V | 39.18 | 10.83 | 33.73 | 61.35 | 74 | -12.65 | Peak |
| 15540 | 44.36 | 0 | 100 | H | 39.18 | 10.83 | 33.73 | 60.64 | 74 | -13.36 | Peak |
| 15540 | 30.57 | 0 | 100 | V | 39.18 | 10.83 | 33.73 | 46.85 | 54 | -7.15 | Ave |
| 15540 | 30.54 | 0 | 100 | H | 39.18 | 10.83 | 33.73 | 46.82 | 54 | -7.18 | Ave |
| Middle Channel 5200 MHz | | | | | | | | | | | |
| 5200 | 66.69 | 257 | 273 | V | 33.61 | 5.64 | 0.00 | 105.94 | - | - | Peak |
| 5200 | 65.95 | 235 | 113 | H | 33.61 | 5.64 | 0.00 | 105.20 | - | - | Peak |
| 5200 | 53.75 | 251 | 256 | V | 33.61 | 5.64 | 0.00 | 93.00 | - | - | Ave |
| 5200 | 53.91 | 239 | 169 | H | 33.61 | 5.64 | 0.00 | 93.16 | - | - | Ave |
| 10400 | 41.15 | 0 | 100 | V | 38.25 | 9.43 | 34.41 | 54.43 | 68.26 | -13.83 | Peak |
| 10400 | 41.42 | 0 | 100 | H | 38.25 | 9.43 | 34.41 | 54.70 | 68.26 | -13.56 | Peak |
| 15600 | 45.96 | 0 | 100 | V | 39.18 | 10.83 | 33.73 | 62.24 | 74 | -11.76 | Peak |
| 15600 | 45.80 | 0 | 100 | H | 39.18 | 10.83 | 33.73 | 62.08 | 74 | -11.92 | Peak |
| 15600 | 31.57 | 0 | 100 | V | 39.18 | 10.83 | 33.73 | 47.85 | 54 | -6.15 | Ave |
| 15600 | 31.58 | 0 | 100 | H | 39.18 | 10.83 | 33.73 | 47.86 | 54 | -6.14 | Ave |
| High Channel 5240 MHz | | | | | | | | | | | |
| 5240 | 67.74 | 274 | 203 | V | 33.61 | 5.64 | 0.00 | 106.99 | - | - | Peak |
| 5240 | 67.43 | 245 | 119 | H | 33.61 | 5.64 | 0.00 | 106.68 | - | - | Peak |
| 5240 | 54.76 | 272 | 272 | V | 33.61 | 5.64 | 0.00 | 94.01 | - | - | Ave |
| 5240 | 54.51 | 244 | 140 | H | 33.61 | 5.64 | 0.00 | 93.76 | - | - | Ave |
| 10480 | 40.51 | 0 | 100 | V | 38.33 | 10.07 | 34.40 | 54.50 | 68.26 | -13.76 | Peak |
| 10480 | 41.45 | 0 | 100 | H | 38.33 | 10.07 | 34.40 | 55.44 | 68.26 | -12.82 | Peak |
| 15720 | 46.54 | 0 | 100 | V | 39.18 | 10.83 | 33.89 | 62.66 | 74 | -11.34 | Peak |
| 15720 | 46.78 | 0 | 100 | H | 39.18 | 10.83 | 33.89 | 62.90 | 74 | -11.10 | Peak |
| 15720 | 31.87 | 0 | 100 | V | 39.18 | 10.83 | 33.89 | 47.99 | 54 | -6.01 | Ave |
| 15720 | 31.88 | 0 | 100 | H | 39.18 | 10.83 | 33.89 | 48.00 | 54 | -6.00 | Ave |

802.11ac40 mode

| Frequency (MHz) | S.A. Reading (dB μ V) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre- Amp. (dB) | Cord. Reading (dB μ V/m) | FCC/IC | | Comments (PK/Ave.) |
|-----------------------|---------------------------------|-----------------------------------|----------------|-------------------|------------------|-----------------------|----------------------|------------------------------------|-------------------------|----------------|-----------------------|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dB μ V/m) | Margin (dB) | |
| Low Channel 5190 MHz | | | | | | | | | | | |
| 5190 | 63.77 | 274 | 209 | V | 33.51 | 5.26 | 0.00 | 102.54 | - | - | Peak |
| 5190 | 62.92 | 254 | 195 | H | 33.61 | 5.26 | 0.00 | 101.79 | - | - | Peak |
| 5190 | 49.92 | 277 | 287 | V | 33.51 | 5.26 | 0.00 | 88.69 | - | - | Ave |
| 5190 | 49.6 | 252 | 160 | H | 33.61 | 5.26 | 0.00 | 88.47 | - | - | Ave |
| 5150 | 28.59 | 0 | 100 | V | 33.51 | 5.26 | 0.00 | 67.36 | 74 | -6.64 | Peak |
| 5150 | 28.15 | 0 | 100 | H | 33.61 | 5.26 | 0.00 | 67.02 | 74 | -6.98 | Peak |
| 5150 | 13.81 | 264 | 136 | V | 33.51 | 5.26 | 0.00 | 52.58 | 54 | -1.42 | Ave |
| 5150 | 13.9 | 244 | 100 | H | 33.61 | 5.26 | 0.00 | 52.77 | 54 | -1.23 | Ave |
| 10380 | 41.90 | 0 | 100 | V | 38.25 | 9.43 | 34.41 | 55.18 | 68.26 | -13.08 | Peak |
| 10380 | 42.22 | 0 | 100 | H | 38.25 | 9.43 | 34.41 | 55.50 | 68.26 | -12.76 | Peak |
| 15570 | 45.69 | 0 | 100 | V | 39.18 | 10.83 | 33.73 | 61.97 | 74 | -12.03 | Peak |
| 15570 | 45.74 | 0 | 100 | H | 39.18 | 10.83 | 33.73 | 62.02 | 74 | -11.98 | Peak |
| 15570 | 31.61 | 0 | 100 | V | 39.18 | 10.83 | 33.73 | 47.89 | 54 | -6.11 | Ave |
| 15570 | 31.59 | 0 | 100 | H | 39.18 | 10.83 | 33.73 | 47.87 | 54 | -6.13 | Ave |
| High Channel 5230 MHz | | | | | | | | | | | |
| 5230 | 64.17 | 248 | 193 | V | 33.51 | 5.26 | 0.00 | 102.94 | - | - | Peak |
| 5230 | 63.8 | 235 | 207 | H | 33.61 | 5.26 | 0.00 | 102.67 | - | - | Peak |
| 5230 | 50.04 | 252 | 245 | V | 33.51 | 5.26 | 0.00 | 88.81 | - | - | Ave |
| 5230 | 49.91 | 226 | 121 | H | 33.61 | 5.26 | 0.00 | 88.78 | - | - | Ave |
| 10460 | 40.95 | 0 | 100 | V | 38.25 | 9.43 | 34.41 | 54.22 | 68.26 | -14.04 | Peak |
| 10460 | 41.45 | 0 | 100 | H | 38.25 | 9.43 | 34.41 | 54.72 | 68.26 | -13.54 | Peak |
| 15690 | 45.93 | 0 | 100 | V | 39.18 | 10.83 | 33.73 | 62.22 | 74 | -11.78 | Peak |
| 15690 | 46.06 | 0 | 100 | H | 39.18 | 10.83 | 33.73 | 62.35 | 74 | -11.65 | Peak |
| 15690 | 31.88 | 0 | 100 | V | 39.18 | 10.83 | 33.73 | 48.17 | 54 | -5.83 | Ave |
| 15690 | 31.90 | 0 | 100 | H | 39.18 | 10.83 | 33.73 | 48.19 | 54 | -5.81 | Ave |

802.11ac80 mode

| Frequency (MHz) | S.A. Reading (dB μ V) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre- Amp. (dB) | Cord. Reading (dB μ V/m) | FCC/IC | | Comments (PK/Ave.) |
|--------------------|---------------------------------|-----------------------------------|----------------|-------------------|------------------|-----------------------|----------------------|------------------------------------|-------------------------|----------------|-----------------------|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dB μ V/m) | Margin (dB) | |
| 5210 MHz | | | | | | | | | | | |
| 5210 | 58.39 | 276 | 285 | V | 33.61 | 5.64 | 0.00 | 97.64 | - | - | Peak |
| 5210 | 57.73 | 251 | 167 | H | 33.61 | 5.64 | 0.00 | 96.98 | - | - | Peak |
| 5210 | 42.39 | 276 | 285 | V | 33.61 | 5.64 | 0.00 | 81.64 | - | - | Ave |
| 5210 | 41.86 | 251 | 167 | H | 33.61 | 5.64 | 0.00 | 81.11 | - | - | Ave |
| 5150 | 27.9 | 276 | 285 | V | 33.61 | 5.64 | 0.00 | 67.15 | 74 | -6.85 | Peak |
| 5150 | 28.15 | 251 | 167 | H | 33.61 | 5.64 | 0.00 | 67.40 | 74 | -6.60 | Peak |
| 5150 | 13.64 | 276 | 285 | V | 33.61 | 5.64 | 0.00 | 52.89 | 54 | -1.11 | Ave |
| 5150 | 13.65 | 251 | 167 | H | 33.61 | 5.64 | 0.00 | 52.90 | 54 | -1.10 | Ave |
| 10420 | 37.41 | 0 | 100 | V | 37.51 | 11.38 | 33.52 | 52.78 | 68.26 | -15.48 | Peak |
| 10420 | 37.56 | 0 | 100 | H | 38.25 | 11.38 | 33.52 | 53.67 | 68.26 | -14.59 | Peak |
| 15630 | 44.83 | 0 | 100 | V | 37.46 | 14.13 | 33.82 | 62.60 | 74 | -11.41 | Peak |
| 15630 | 45.59 | 0 | 100 | H | 39.18 | 14.13 | 33.82 | 65.08 | 74 | -8.92 | Peak |
| 15630 | 31.1 | 0 | 100 | V | 37.46 | 14.13 | 33.82 | 48.87 | 54 | -5.14 | Ave |
| 15630 | 31.06 | 0 | 100 | H | 39.18 | 14.13 | 33.82 | 50.55 | 54 | -3.45 | Ave |

5250 - 5350 MHz

802.11a mode chain 1

| Frequency (MHz) | S.A. Reading (dB μ V) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre- Amp. (dB) | Cord. Reading (dB μ V/m) | FCC/IC | | Comments (PK/Ave.) |
|-------------------------|---------------------------------|-----------------------------------|----------------|-------------------|------------------|-----------------------|----------------------|------------------------------------|-------------------------|----------------|-----------------------|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dB μ V/m) | Margin (dB) | |
| Low Channel 5260 MHz | | | | | | | | | | | |
| 5260 | 61.95 | 205 | 105 | V | 33.48 | 5.71 | 0.00 | 101.14 | - | - | Peak |
| 5260 | 61 | 237 | 235 | H | 33.48 | 5.71 | 0.00 | 100.19 | - | - | Peak |
| 5260 | 50.47 | 180 | 128 | V | 33.48 | 5.71 | 0.00 | 89.66 | - | - | Ave |
| 5260 | 50.15 | 312 | 134 | H | 33.48 | 5.71 | 0.00 | 89.34 | - | - | Ave |
| 10520 | 41.60 | 0 | 100 | V | 38.33 | 10.07 | 34.40 | 55.59 | 68.26 | -12.67 | Peak |
| 10520 | 41.39 | 0 | 100 | H | 38.33 | 10.07 | 34.40 | 55.38 | 68.26 | -12.88 | Peak |
| 15780 | 44.69 | 0 | 100 | V | 38.33 | 10.83 | 33.89 | 59.95 | 74 | -14.05 | Peak |
| 15780 | 43.97 | 0 | 100 | H | 38.33 | 10.83 | 33.89 | 59.23 | 74 | -14.77 | Peak |
| 15780 | 31.97 | 0 | 100 | V | 38.33 | 10.83 | 33.89 | 47.23 | 54 | -6.77 | Ave |
| 15780 | 32.01 | 0 | 100 | H | 39.18 | 10.83 | 33.89 | 48.12 | 54 | -5.88 | Ave |
| Middle Channel 5300 MHz | | | | | | | | | | | |
| 5300 | 62.83 | 199 | 187 | V | 33.48 | 5.71 | 0.00 | 102.02 | - | - | Peak |
| 5300 | 62 | 238 | 243 | H | 33.48 | 5.71 | 0.00 | 101.19 | - | - | Peak |
| 5300 | 51.79 | 191 | 188 | V | 33.48 | 5.71 | 0.00 | 90.98 | - | - | Ave |
| 5300 | 50.93 | 302 | 12 | H | 33.48 | 5.71 | 0.00 | 90.12 | - | - | Ave |
| 10600 | 42.10 | 0 | 100 | V | 38.26 | 10.07 | 34.40 | 56.03 | 74 | -17.97 | Peak |
| 10600 | 42.19 | 0 | 100 | H | 38.26 | 10.07 | 34.40 | 56.12 | 74 | -17.88 | Peak |
| 10600 | 27.95 | 0 | 100 | V | 38.26 | 10.07 | 34.40 | 41.88 | 54 | -12.12 | Ave |
| 10600 | 27.98 | 0 | 100 | H | 38.26 | 10.07 | 34.40 | 41.91 | 54 | -12.09 | Ave |
| 15900 | 44.14 | 0 | 100 | V | 38.50 | 10.83 | 34.07 | 59.40 | 74 | -14.60 | Peak |
| 15900 | 44.40 | 0 | 100 | H | 38.50 | 10.83 | 34.07 | 59.66 | 74 | -14.34 | Peak |
| 15900 | 31.50 | 0 | 100 | V | 38.50 | 10.83 | 34.07 | 46.76 | 54 | -7.24 | Ave |
| 15900 | 31.52 | 0 | 100 | H | 38.50 | 10.83 | 34.07 | 46.78 | 54 | -7.22 | Ave |
| High Channel 5320 MHz | | | | | | | | | | | |
| 5320 | 61.61 | 212 | 130 | V | 33.48 | 5.71 | 0.00 | 100.80 | - | - | Peak |
| 5320 | 60.97 | 313 | 240 | H | 33.48 | 5.71 | 0.00 | 100.16 | - | - | Peak |
| 5320 | 51.3 | 185 | 206 | V | 33.48 | 5.71 | 0.00 | 90.49 | - | - | Ave |
| 5320 | 50.25 | 312 | 109 | H | 33.48 | 5.71 | 0.00 | 89.44 | - | - | Ave |
| 5350 | 26.77 | 0 | 100 | V | 33.58 | 5.59 | 0.00 | 65.93 | 74 | -8.07 | Peak |
| 5350 | 26.67 | 0 | 100 | H | 33.58 | 5.59 | 0.00 | 65.83 | 74 | -8.17 | Peak |
| 5350 | 12.61 | 0 | 100 | V | 33.58 | 5.59 | 0.00 | 51.77 | 54 | -2.23 | Ave |
| 5350 | 12.61 | 0 | 100 | H | 33.58 | 5.59 | 0.00 | 51.77 | 54 | -2.23 | Ave |
| 10640 | 40.92 | 0 | 100 | V | 38.26 | 10.07 | 34.35 | 54.90 | 74 | -19.10 | Peak |
| 10640 | 41.81 | 0 | 100 | H | 38.26 | 10.07 | 34.35 | 55.79 | 74 | -18.21 | Peak |
| 10640 | 29.21 | 0 | 100 | V | 38.26 | 10.07 | 34.35 | 43.19 | 54 | -10.81 | Ave |
| 10640 | 29.20 | 0 | 100 | H | 38.26 | 10.07 | 34.35 | 43.18 | 54 | -10.82 | Ave |
| 15960 | 46.51 | 0 | 100 | V | 38.44 | 10.83 | 34.07 | 61.70 | 74 | -12.30 | Peak |
| 15960 | 46.05 | 0 | 100 | H | 38.44 | 10.83 | 34.07 | 61.24 | 74 | -12.76 | Peak |
| 15960 | 33.57 | 0 | 100 | V | 38.44 | 10.83 | 34.07 | 48.76 | 54 | -5.24 | Ave |
| 15960 | 33.58 | 0 | 100 | H | 38.44 | 10.83 | 34.07 | 48.77 | 54 | -5.23 | Ave |

802.11a mode chain 2

| Frequency (MHz) | S.A. Reading (dB μ V) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre- Amp. (dB) | Cord. Reading (dB μ V/m) | FCC/IC | | Comments (PK/Ave.) |
|-------------------------|---------------------------------|-----------------------------------|----------------|-------------------|------------------|-----------------------|----------------------|------------------------------------|-------------------------|----------------|-----------------------|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dB μ V/m) | Margin (dB) | |
| Low Channel 5260 MHz | | | | | | | | | | | |
| 5260 | 64.26 | 272 | 202 | V | 33.48 | 5.71 | 0.00 | 103.45 | - | - | Peak |
| 5260 | 63.89 | 245 | 197 | H | 33.48 | 5.71 | 0.00 | 103.08 | - | - | Peak |
| 5260 | 53.36 | 267 | 270 | V | 33.48 | 5.71 | 0.00 | 92.55 | - | - | Ave |
| 5260 | 50.62 | 174 | 269 | H | 33.48 | 5.71 | 0.00 | 89.81 | - | - | Ave |
| 10520 | 41.90 | 0 | 100 | V | 38.33 | 10.07 | 34.40 | 55.89 | 68.26 | -12.37 | Peak |
| 10520 | 42.15 | 0 | 100 | H | 38.33 | 10.07 | 34.40 | 56.14 | 68.26 | -12.12 | Peak |
| 15780 | 44.44 | 0 | 100 | V | 38.33 | 10.83 | 33.89 | 59.70 | 74 | -14.30 | Peak |
| 15780 | 45.95 | 0 | 100 | H | 38.33 | 10.83 | 33.89 | 61.21 | 74 | -12.79 | Peak |
| 15780 | 31.80 | 0 | 100 | V | 38.33 | 10.83 | 33.89 | 47.06 | 54 | -6.94 | Ave |
| 15780 | 31.77 | 0 | 100 | H | 39.18 | 10.83 | 33.89 | 47.88 | 54 | -6.12 | Ave |
| Middle Channel 5300 MHz | | | | | | | | | | | |
| 5300 | 65.1 | 273 | 289 | V | 33.48 | 5.71 | 0.00 | 104.29 | - | - | Peak |
| 5300 | 63.7 | 254 | 100 | H | 33.48 | 5.71 | 0.00 | 102.89 | - | - | Peak |
| 5300 | 53.94 | 271 | 191 | V | 33.48 | 5.71 | 0.00 | 93.13 | - | - | Ave |
| 5300 | 53.75 | 242 | 123 | H | 33.48 | 5.71 | 0.00 | 92.94 | - | - | Ave |
| 10600 | 41.70 | 0 | 100 | V | 38.26 | 10.07 | 34.40 | 55.63 | 74 | -18.37 | Peak |
| 10600 | 40.58 | 0 | 100 | H | 38.26 | 10.07 | 34.40 | 54.51 | 74 | -19.49 | Peak |
| 10600 | 26.97 | 0 | 100 | V | 38.26 | 10.07 | 34.40 | 40.90 | 54 | -13.10 | Ave |
| 10600 | 27.02 | 0 | 100 | H | 38.26 | 10.07 | 34.40 | 40.95 | 54 | -13.05 | Ave |
| 15900 | 44.76 | 0 | 100 | V | 38.50 | 10.83 | 34.07 | 60.02 | 74 | -13.98 | Peak |
| 15900 | 44.44 | 0 | 100 | H | 38.50 | 10.83 | 34.07 | 59.70 | 74 | -14.30 | Peak |
| 15900 | 30.86 | 0 | 100 | V | 38.50 | 10.83 | 34.07 | 46.12 | 54 | -7.88 | Ave |
| 15900 | 30.82 | 0 | 100 | H | 38.50 | 10.83 | 34.07 | 46.08 | 54 | -7.92 | Ave |
| High Channel 5320 MHz | | | | | | | | | | | |
| 5320 | 64.77 | 270 | 198 | V | 33.48 | 5.71 | 0.00 | 103.96 | - | - | Peak |
| 5320 | 64.44 | 241 | 211 | H | 33.48 | 5.71 | 0.00 | 103.63 | - | - | Peak |
| 5320 | 53.35 | 264 | 198 | V | 33.48 | 5.71 | 0.00 | 92.54 | - | - | Ave |
| 5320 | 53.16 | 242 | 100 | H | 33.48 | 5.71 | 0.00 | 92.35 | - | - | Ave |
| 5350 | 26.57 | 270 | 198 | V | 33.58 | 5.59 | 0.00 | 65.73 | 74 | -8.27 | Peak |
| 5350 | 26.52 | 241 | 211 | H | 33.58 | 5.59 | 0.00 | 65.68 | 74 | -8.32 | Peak |
| 5350 | 12.25 | 264 | 198 | V | 33.58 | 5.59 | 0.00 | 51.41 | 54 | -2.59 | Ave |
| 5350 | 12.27 | 241 | 100 | H | 33.58 | 5.59 | 0.00 | 51.43 | 54 | -2.57 | Ave |
| 10640 | 43.31 | 0 | 100 | V | 38.26 | 10.07 | 34.35 | 57.29 | 74 | -16.71 | Peak |
| 10640 | 42.69 | 0 | 100 | H | 38.26 | 10.07 | 34.35 | 56.67 | 74 | -17.33 | Peak |
| 10640 | 28.21 | 0 | 100 | V | 38.26 | 10.07 | 34.35 | 42.19 | 54 | -11.81 | Ave |
| 10640 | 28.26 | 0 | 100 | H | 38.26 | 10.07 | 34.35 | 42.24 | 54 | -11.76 | Ave |
| 15960 | 46.42 | 0 | 100 | V | 38.44 | 10.83 | 34.07 | 61.61 | 74 | -12.39 | Peak |
| 15960 | 46.94 | 0 | 100 | H | 38.44 | 10.83 | 34.07 | 62.13 | 74 | -11.87 | Peak |
| 15960 | 32.59 | 0 | 100 | V | 38.44 | 10.83 | 34.07 | 47.78 | 54 | -6.22 | Ave |
| 15960 | 32.57 | 0 | 100 | H | 38.44 | 10.83 | 34.07 | 47.76 | 54 | -6.24 | Ave |

802.11n20 mode

| Frequency (MHz) | S.A. Reading (dB μ V) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre- Amp. (dB) | Cord. Reading (dB μ V/m) | FCC/IC | | Comments (PK/Ave.) |
|-------------------------|---------------------------------|-----------------------------------|----------------|-------------------|------------------|-----------------------|----------------------|------------------------------------|-------------------------|----------------|-----------------------|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dB μ V/m) | Margin (dB) | |
| Low Channel 5260 MHz | | | | | | | | | | | |
| 5260 | 66.55 | 269 | 197 | V | 33.48 | 5.71 | 0.00 | 105.74 | - | - | Peak |
| 5260 | 66.57 | 242 | 191 | H | 33.48 | 5.71 | 0.00 | 105.76 | - | - | Peak |
| 5260 | 53.28 | 269 | 266 | V | 33.48 | 5.71 | 0.00 | 92.47 | - | - | Ave |
| 5260 | 53.37 | 248 | 132 | H | 33.48 | 5.71 | 0.00 | 92.56 | - | - | Ave |
| 10520 | 42.32 | 0 | 100 | V | 38.33 | 10.07 | 34.40 | 56.31 | 68.26 | -11.95 | Peak |
| 10520 | 41.83 | 0 | 100 | H | 38.33 | 10.07 | 34.40 | 55.82 | 68.26 | -12.44 | Peak |
| 15780 | 44.48 | 0 | 100 | V | 38.33 | 10.83 | 33.89 | 59.74 | 74 | -14.26 | Peak |
| 15780 | 45.06 | 0 | 100 | H | 38.33 | 10.83 | 33.89 | 60.32 | 74 | -13.68 | Peak |
| 15780 | 31.51 | 0 | 100 | V | 38.33 | 10.83 | 33.89 | 46.77 | 54 | -7.23 | Ave |
| 15780 | 31.53 | 0 | 100 | H | 39.18 | 10.83 | 33.89 | 47.64 | 54 | -6.36 | Ave |
| Middle Channel 5300 MHz | | | | | | | | | | | |
| 5300 | 66.75 | 268 | 201 | V | 33.48 | 5.71 | 0.00 | 105.94 | - | - | Peak |
| 5300 | 67.02 | 243 | 211 | H | 33.48 | 5.71 | 0.00 | 106.21 | - | - | Peak |
| 5300 | 53.48 | 270 | 232 | V | 33.48 | 5.71 | 0.00 | 92.67 | - | - | Ave |
| 5300 | 53.4 | 248 | 100 | H | 33.48 | 5.71 | 0.00 | 92.59 | - | - | Ave |
| 10600 | 43.07 | 0 | 100 | V | 38.26 | 10.07 | 34.40 | 57.00 | 74 | -17.00 | Peak |
| 10600 | 42.30 | 0 | 100 | H | 38.26 | 10.07 | 34.40 | 56.23 | 74 | -17.77 | Peak |
| 10600 | 27.03 | 0 | 100 | V | 38.26 | 10.07 | 34.40 | 40.96 | 54 | -13.04 | Ave |
| 10600 | 27.04 | 0 | 100 | H | 38.26 | 10.07 | 34.40 | 40.97 | 54 | -13.03 | Ave |
| 15900 | 44.48 | 0 | 100 | V | 38.50 | 10.83 | 34.07 | 59.74 | 74 | -14.26 | Peak |
| 15900 | 44.58 | 0 | 100 | H | 38.50 | 10.83 | 34.07 | 59.84 | 74 | -14.16 | Peak |
| 15900 | 30.85 | 0 | 100 | V | 38.50 | 10.83 | 34.07 | 46.11 | 54 | -7.89 | Ave |
| 15900 | 30.87 | 0 | 100 | H | 38.50 | 10.83 | 34.07 | 46.13 | 54 | -7.87 | Ave |
| High Channel 5320 MHz | | | | | | | | | | | |
| 5320 | 66.1 | 272 | 179 | V | 33.48 | 5.71 | 0.00 | 105.29 | - | - | Peak |
| 5320 | 66.24 | 244 | 209 | H | 33.48 | 5.71 | 0.00 | 105.43 | - | - | Peak |
| 5320 | 52.42 | 284 | 300 | V | 33.48 | 5.71 | 0.00 | 91.61 | - | - | Ave |
| 5320 | 53.04 | 246 | 133 | H | 33.48 | 5.71 | 0.00 | 92.23 | - | - | Ave |
| 5350 | 26.53 | 272 | 179 | V | 33.58 | 5.59 | 0.00 | 65.69 | 74 | -8.31 | Peak |
| 5350 | 26.3 | 243 | 209 | H | 33.58 | 5.59 | 0.00 | 65.46 | 74 | -8.54 | Peak |
| 5350 | 12.67 | 284 | 300 | V | 33.58 | 5.59 | 0.00 | 51.83 | 54 | -2.17 | Ave |
| 5350 | 12.68 | 246 | 133 | H | 33.58 | 5.59 | 0.00 | 51.84 | 54 | -2.16 | Ave |
| 10640 | 43.96 | 0 | 100 | V | 38.26 | 10.07 | 34.35 | 57.94 | 74 | -16.06 | Peak |
| 10640 | 43.59 | 0 | 100 | H | 38.26 | 10.07 | 34.35 | 57.57 | 74 | -16.43 | Peak |
| 10640 | 28.30 | 0 | 100 | V | 38.26 | 10.07 | 34.35 | 42.28 | 54 | -11.72 | Ave |
| 10640 | 28.31 | 0 | 100 | H | 38.26 | 10.07 | 34.35 | 42.29 | 54 | -11.71 | Ave |
| 15960 | 46.60 | 0 | 100 | V | 38.44 | 10.83 | 34.07 | 61.79 | 74 | -12.21 | Peak |
| 15960 | 46.65 | 0 | 100 | H | 38.44 | 10.83 | 34.07 | 61.84 | 74 | -12.16 | Peak |
| 15960 | 32.67 | 0 | 100 | V | 38.44 | 10.83 | 34.07 | 47.86 | 54 | -6.14 | Ave |
| 15960 | 32.63 | 0 | 100 | H | 38.44 | 10.83 | 34.07 | 47.82 | 54 | -6.18 | Ave |

802.11n40 mode

| Frequency (MHz) | S.A. Reading (dB μ V) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre- Amp. (dB) | Cord. Reading (dB μ V/m) | FCC/IC | | Comments (PK/Ave.) |
|-----------------------|---------------------------------|-----------------------------------|----------------|-------------------|------------------|-----------------------|----------------------|------------------------------------|-------------------------|----------------|-----------------------|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dB μ V/m) | Margin (dB) | |
| Low Channel 5270 MHz | | | | | | | | | | | |
| 5270 | 62.7 | 248 | 230 | V | 33.42 | 5.26 | 0.00 | 101.38 | - | - | Peak |
| 5270 | 62.22 | 222 | 231 | H | 33.48 | 5.26 | 0.00 | 100.96 | - | - | Peak |
| 5270 | 50.31 | 250 | 228 | V | 33.42 | 5.26 | 0.00 | 88.99 | - | - | Ave |
| 5270 | 50.06 | 223 | 114 | H | 33.48 | 5.26 | 0.00 | 88.80 | - | - | Ave |
| 10540 | 41.43 | 0 | 100 | V | 38.33 | 10.07 | 34.40 | 55.42 | 68.26 | -12.84 | Peak |
| 10540 | 42.18 | 0 | 100 | H | 38.33 | 10.07 | 34.40 | 56.17 | 68.26 | -12.09 | Peak |
| 15810 | 46.94 | 0 | 100 | V | 38.33 | 10.83 | 33.89 | 62.20 | 74 | -11.80 | Peak |
| 15810 | 46.59 | 0 | 100 | H | 38.33 | 10.83 | 33.89 | 61.85 | 74 | -12.15 | Peak |
| 15810 | 32.50 | 0 | 100 | V | 38.33 | 10.83 | 33.89 | 47.76 | 54 | -6.24 | Ave |
| 15810 | 32.51 | 0 | 100 | H | 39.18 | 10.83 | 33.89 | 48.62 | 54 | -5.38 | Ave |
| High Channel 5310 MHz | | | | | | | | | | | |
| 5310 | 64.07 | 286 | 259 | V | 33.48 | 5.71 | 0.00 | 103.26 | - | - | Peak |
| 5310 | 63.89 | 247 | 206 | H | 33.48 | 5.71 | 0.00 | 103.08 | - | - | Peak |
| 5310 | 51.3 | 277 | 234 | V | 33.48 | 5.71 | 0.00 | 90.49 | - | - | Ave |
| 5310 | 50.9 | 245 | 108 | H | 33.48 | 5.71 | 0.00 | 90.09 | - | - | Ave |
| 5350 | 27.53 | 0 | 100 | V | 33.58 | 5.59 | 0.00 | 66.69 | 74 | -7.31 | Peak |
| 5350 | 29.19 | 0 | 100 | H | 33.58 | 5.59 | 0.00 | 68.35 | 74 | -5.65 | Peak |
| 5350 | 13.77 | 277 | 234 | V | 33.58 | 5.59 | 0.00 | 52.93 | 54 | -1.07 | Ave |
| 5350 | 13.72 | 245 | 108 | H | 33.58 | 5.59 | 0.00 | 52.88 | 54 | -1.12 | Ave |
| 10620 | 43.11 | 0 | 100 | V | 38.33 | 10.07 | 34.40 | 57.11 | 74 | -16.89 | Peak |
| 10620 | 43.32 | 0 | 100 | H | 38.33 | 10.07 | 34.40 | 57.32 | 74 | -16.68 | Peak |
| 10620 | 28.39 | 0 | 100 | V | 38.33 | 10.83 | 33.89 | 43.65 | 54 | -10.35 | Ave |
| 10620 | 28.39 | 0 | 100 | H | 38.33 | 10.83 | 33.89 | 43.65 | 54 | -10.35 | Ave |
| 15930 | 46.65 | 0 | 100 | V | 38.33 | 10.83 | 33.89 | 61.91 | 74 | -12.09 | Peak |
| 15930 | 46.56 | 0 | 100 | H | 38.33 | 10.83 | 33.89 | 61.82 | 74 | -12.18 | Peak |
| 15930 | 32.56 | 0 | 100 | V | 38.33 | 10.83 | 33.89 | 47.82 | 54 | -6.18 | Ave |
| 15930 | 32.58 | 0 | 100 | H | 39.18 | 10.83 | 33.89 | 48.70 | 54 | -5.30 | Ave |

802.11ac20 mode

| Frequency (MHz) | S.A. Reading (dB μ V) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre- Amp. (dB) | Cord. Reading (dB μ V/m) | FCC/IC | | Comments (PK/Ave.) |
|-------------------------|---------------------------------|-----------------------------------|----------------|-------------------|------------------|-----------------------|----------------------|------------------------------------|-------------------------|----------------|-----------------------|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dB μ V/m) | Margin (dB) | |
| Low Channel 5260 MHz | | | | | | | | | | | |
| 5260 | 65.72 | 276 | 178 | V | 33.48 | 5.71 | 0.00 | 104.91 | - | - | Peak |
| 5260 | 65.65 | 249 | 161 | H | 33.48 | 5.71 | 0.00 | 104.84 | - | - | Peak |
| 5260 | 52.94 | 280 | 194 | V | 33.48 | 5.71 | 0.00 | 92.13 | - | - | Ave |
| 5260 | 52.84 | 254 | 160 | H | 33.48 | 5.71 | 0.00 | 92.03 | - | - | Ave |
| 10520 | 42.37 | 0 | 100 | V | 38.33 | 10.07 | 34.40 | 56.36 | 68.26 | -11.90 | Peak |
| 10520 | 42.29 | 0 | 100 | H | 38.33 | 10.07 | 34.40 | 56.28 | 68.26 | -11.98 | Peak |
| 15780 | 45.61 | 0 | 100 | V | 38.33 | 10.83 | 33.89 | 60.87 | 74 | -13.13 | Peak |
| 15780 | 45.74 | 0 | 100 | H | 38.33 | 10.83 | 33.89 | 61.00 | 74 | -13.00 | Peak |
| 15780 | 31.81 | 0 | 100 | V | 38.33 | 10.83 | 33.89 | 47.07 | 54 | -6.93 | Ave |
| 15780 | 31.83 | 0 | 100 | H | 39.18 | 10.83 | 33.89 | 47.94 | 54 | -6.06 | Ave |
| Middle Channel 5300 MHz | | | | | | | | | | | |
| 5300 | 66.72 | 272 | 213 | V | 33.48 | 5.71 | 0.00 | 105.91 | - | - | Peak |
| 5300 | 66.1 | 251 | 203 | H | 33.48 | 5.71 | 0.00 | 105.29 | - | - | Peak |
| 5300 | 54.17 | 273 | 300 | V | 33.48 | 5.71 | 0.00 | 93.36 | - | - | Ave |
| 5300 | 52.67 | 311 | 109 | H | 33.48 | 5.71 | 0.00 | 91.86 | - | - | Ave |
| 10600 | 42.78 | 0 | 100 | V | 38.26 | 10.07 | 34.40 | 56.71 | 74 | -17.29 | Peak |
| 10600 | 43.12 | 0 | 100 | H | 38.26 | 10.07 | 34.40 | 57.05 | 74 | -16.95 | Peak |
| 10600 | 27.12 | 0 | 100 | V | 38.26 | 10.07 | 34.40 | 41.05 | 54 | -12.95 | Ave |
| 10600 | 27.10 | 0 | 100 | H | 38.26 | 10.07 | 34.40 | 41.03 | 54 | -12.97 | Ave |
| 15900 | 45.11 | 0 | 100 | V | 38.50 | 10.83 | 34.07 | 60.37 | 74 | -13.63 | Peak |
| 15900 | 44.89 | 0 | 100 | H | 38.50 | 10.83 | 34.07 | 60.15 | 74 | -13.85 | Peak |
| 15900 | 30.86 | 0 | 100 | V | 38.50 | 10.83 | 34.07 | 46.12 | 54 | -7.88 | Ave |
| 15900 | 30.88 | 0 | 100 | H | 38.50 | 10.83 | 34.07 | 46.14 | 54 | -7.86 | Ave |
| High Channel 5320 MHz | | | | | | | | | | | |
| 5320 | 66.07 | 275 | 297 | V | 33.48 | 5.71 | 0.00 | 105.26 | - | - | Peak |
| 5320 | 66.65 | 242 | 214 | H | 33.48 | 5.71 | 0.00 | 105.84 | - | - | Peak |
| 5320 | 53.47 | 273 | 241 | V | 33.48 | 5.71 | 0.00 | 92.66 | - | - | Ave |
| 5320 | 53.33 | 247 | 122 | H | 33.48 | 5.71 | 0.00 | 92.52 | - | - | Ave |
| 5350 | 27.88 | 0 | 100 | V | 33.58 | 5.59 | 0.00 | 67.04 | 74 | -6.96 | Peak |
| 5350 | 28.04 | 0 | 100 | H | 33.58 | 5.59 | 0.00 | 67.20 | 74 | -6.80 | Peak |
| 5350 | 13.18 | 0 | 100 | V | 33.58 | 5.59 | 0.00 | 52.34 | 54 | -1.66 | Ave |
| 5350 | 13.15 | 0 | 100 | H | 33.58 | 5.59 | 0.00 | 52.31 | 54 | -1.69 | Ave |
| 10640 | 42.48 | 0 | 100 | V | 38.26 | 10.07 | 34.35 | 56.46 | 74 | -17.54 | Peak |
| 10640 | 43.26 | 0 | 100 | H | 38.26 | 10.07 | 34.35 | 57.24 | 74 | -16.76 | Peak |
| 10640 | 28.44 | 0 | 100 | V | 38.26 | 10.07 | 34.35 | 42.42 | 54 | -11.58 | Ave |
| 10640 | 28.45 | 0 | 100 | H | 38.26 | 10.07 | 34.35 | 42.43 | 54 | -11.57 | Ave |
| 15960 | 46.52 | 0 | 100 | V | 38.44 | 10.83 | 34.07 | 61.71 | 74 | -12.29 | Peak |
| 15960 | 46.81 | 0 | 100 | H | 38.44 | 10.83 | 34.07 | 62.00 | 74 | -12.00 | Peak |
| 15960 | 32.70 | 0 | 100 | V | 38.44 | 10.83 | 34.07 | 47.89 | 54 | -6.11 | Ave |
| 15960 | 32.69 | 0 | 100 | H | 38.44 | 10.83 | 34.07 | 47.88 | 54 | -6.12 | Ave |

802.11ac40 mode

| Frequency (MHz) | S.A. Reading (dB μ V) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre- Amp. (dB) | Cord. Reading (dB μ V/m) | FCC/IC | | Comments (PK/Ave.) |
|-----------------------|---------------------------------|-----------------------------------|----------------|-------------------|------------------|-----------------------|----------------------|------------------------------------|-------------------------|----------------|-----------------------|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dB μ V/m) | Margin (dB) | |
| Low Channel 5270 MHz | | | | | | | | | | | |
| 5270 | 58.37 | 289 | 258 | V | 33.42 | 5.26 | 0.00 | 97.05 | - | - | Peak |
| 5270 | 58.05 | 246 | 176 | H | 33.48 | 5.26 | 0.00 | 96.79 | - | - | Peak |
| 5270 | 45.09 | 289 | 258 | V | 33.42 | 5.26 | 0.00 | 83.77 | - | - | Ave |
| 5270 | 43.89 | 246 | 176 | H | 33.48 | 5.26 | 0.00 | 82.63 | - | - | Ave |
| 10540 | 42.25 | 0 | 100 | V | 38.33 | 10.07 | 34.40 | 56.24 | 68.26 | -12.02 | Peak |
| 10540 | 41.89 | 0 | 100 | H | 38.33 | 10.07 | 34.40 | 55.88 | 68.26 | -12.38 | Peak |
| 15810 | 46.59 | 0 | 100 | V | 38.33 | 10.83 | 33.89 | 61.85 | 74 | -12.15 | Peak |
| 15810 | 46.18 | 0 | 100 | H | 38.33 | 10.83 | 33.89 | 61.44 | 74 | -12.56 | Peak |
| 15810 | 32.48 | 0 | 100 | V | 38.33 | 10.83 | 33.89 | 47.74 | 54 | -6.26 | Ave |
| 15810 | 32.47 | 0 | 100 | H | 39.18 | 10.83 | 33.89 | 48.58 | 54 | -5.42 | Ave |
| High Channel 5310 MHz | | | | | | | | | | | |
| 5310 | 59.57 | 289 | 273 | V | 33.48 | 5.71 | 0.00 | 98.76 | - | - | Peak |
| 5310 | 59.1 | 252 | 205 | H | 33.48 | 5.71 | 0.00 | 98.29 | - | - | Peak |
| 5310 | 44.77 | 289 | 273 | V | 33.48 | 5.71 | 0.00 | 83.96 | - | - | Ave |
| 5310 | 45.04 | 252 | 205 | H | 33.48 | 5.71 | 0.00 | 84.23 | - | - | Ave |
| 5350 | 26.65 | 289 | 273 | V | 33.58 | 5.59 | 0.00 | 65.81 | 74 | -8.19 | Peak |
| 5350 | 27.41 | 252 | 205 | H | 33.58 | 5.59 | 0.00 | 66.57 | 74 | -7.43 | Peak |
| 5350 | 13.02 | 289 | 273 | V | 33.58 | 5.59 | 0.00 | 52.18 | 54 | -1.82 | Ave |
| 5350 | 13.42 | 252 | 205 | H | 33.58 | 5.59 | 0.00 | 52.58 | 54 | -1.42 | Ave |
| 10620 | 43.05 | 0 | 100 | V | 38.33 | 10.07 | 34.40 | 57.05 | 74 | -16.95 | Peak |
| 10620 | 43.77 | 0 | 100 | H | 38.33 | 10.07 | 34.40 | 57.77 | 74 | -16.23 | Peak |
| 10620 | 28.35 | 0 | 100 | V | 38.33 | 10.83 | 33.89 | 43.61 | 54 | -10.39 | Ave |
| 10620 | 28.35 | 0 | 100 | H | 38.33 | 10.83 | 33.89 | 43.61 | 54 | -10.39 | Ave |
| 15930 | 46.62 | 0 | 100 | V | 38.33 | 10.83 | 33.89 | 61.88 | 74 | -12.12 | Peak |
| 15930 | 46.82 | 0 | 100 | H | 38.33 | 10.83 | 33.89 | 62.08 | 74 | -11.92 | Peak |
| 15930 | 32.64 | 0 | 100 | V | 38.33 | 10.83 | 33.89 | 47.90 | 54 | -6.10 | Ave |
| 15930 | 32.66 | 0 | 100 | H | 39.18 | 10.83 | 33.89 | 48.77 | 54 | -5.23 | Ave |

802.11ac80 mode

| Frequency (MHz) | S.A. Reading (dB μ V) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre- Amp. (dB) | Cord. Reading (dB μ V/m) | FCC/IC | | Comments (PK/Ave.) |
|--------------------|---------------------------------|-----------------------------------|----------------|-------------------|------------------|-----------------------|----------------------|------------------------------------|-------------------------|----------------|-----------------------|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dB μ V/m) | Margin (dB) | |
| 5290 MHz | | | | | | | | | | | |
| 5290 | 54.41 | 195 | 229 | V | 33.48 | 5.71 | 0.00 | 93.60 | - | - | Peak |
| 5290 | 56.16 | 223 | 253 | H | 33.48 | 5.71 | 0.00 | 95.35 | - | - | Peak |
| 5290 | 38.84 | 195 | 229 | V | 33.48 | 5.71 | 0.00 | 78.03 | - | - | Ave |
| 5290 | 39.6 | 223 | 253 | H | 33.48 | 5.71 | 0.00 | 78.79 | - | - | Ave |
| 5350 | 26.66 | 195 | 229 | V | 33.58 | 5.59 | 0.00 | 65.82 | 74 | -8.18 | Peak |
| 5350 | 26.47 | 223 | 253 | H | 33.58 | 5.59 | 0.00 | 65.63 | 74 | -8.37 | Peak |
| 5350 | 12.85 | 195 | 229 | V | 33.58 | 5.59 | 0.00 | 52.01 | 54 | -1.99 | Ave |
| 5350 | 13.22 | 223 | 253 | H | 33.58 | 5.59 | 0.00 | 52.38 | 54 | -1.62 | Ave |
| 10580 | 40.42 | 0 | 100 | V | 37.74 | 11.35 | 33.91 | 55.60 | 68.26 | -12.66 | Peak |
| 10580 | 39.98 | 0 | 100 | H | 38.26 | 11.35 | 33.91 | 55.68 | 68.26 | -12.58 | Peak |
| 15870 | 45.24 | 0 | 100 | V | 37.00 | 14.52 | 34.57 | 62.19 | 74 | -11.81 | Peak |
| 15870 | 45.75 | 0 | 100 | H | 38.50 | 14.52 | 34.57 | 64.20 | 74 | -9.80 | Peak |
| 15870 | 31.03 | 0 | 100 | V | 37.00 | 14.52 | 34.57 | 47.98 | 54 | -6.02 | Ave |
| 15870 | 31.08 | 0 | 100 | H | 38.50 | 14.52 | 34.57 | 49.53 | 54 | -4.47 | Ave |

5470 - 5725 MHz

802.11a mode chain 1

| Frequency (MHz) | S.A. Reading (dB μ V) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre- Amp. (dB) | Cord. Reading (dB μ V/m) | FCC/IC | | Comments (PK/Ave.) |
|-------------------------|---------------------------------|-----------------------------------|----------------|-------------------|------------------|-----------------------|----------------------|------------------------------------|-------------------------|----------------|-----------------------|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dB μ V/m) | Margin (dB) | |
| Low Channel 5500 MHz | | | | | | | | | | | |
| 5500 | 60.18 | 174 | 213 | V | 33.85 | 5.34 | 0.00 | 99.36 | - | - | Peak |
| 5500 | 59.49 | 314 | 108 | H | 33.85 | 5.34 | 0.00 | 98.67 | - | - | Peak |
| 5500 | 49.18 | 191 | 214 | V | 33.85 | 5.34 | 0.00 | 88.36 | - | - | Ave |
| 5500 | 47.99 | 239 | 105 | H | 33.85 | 5.34 | 0.00 | 87.17 | - | - | Ave |
| 5460 | 27.66 | 0 | 100 | V | 33.85 | 5.34 | 0.00 | 66.84 | 74 | -7.16 | Peak |
| 5460 | 26.38 | 0 | 100 | H | 33.85 | 5.34 | 0.00 | 65.56 | 74 | -8.44 | Peak |
| 5460 | 12.61 | 0 | 100 | V | 33.85 | 5.34 | 0.00 | 51.79 | 54 | -2.21 | Ave |
| 5460 | 12.61 | 0 | 100 | H | 33.85 | 5.34 | 0.00 | 51.79 | 54 | -2.21 | Ave |
| 11000 | 45.31 | 0 | 100 | V | 38.28 | 10.07 | 34.34 | 59.31 | 74 | -14.69 | Peak |
| 11000 | 44.62 | 0 | 100 | H | 38.28 | 10.07 | 34.34 | 58.62 | 74 | -15.38 | Peak |
| 11000 | 31.09 | 0 | 100 | V | 38.28 | 10.07 | 34.34 | 45.09 | 54 | -8.91 | Ave |
| 11000 | 31.20 | 0 | 100 | H | 38.28 | 10.07 | 34.34 | 45.20 | 54 | -8.80 | Ave |
| 16500 | 44.43 | 0 | 100 | V | 38.51 | 10.07 | 34.04 | 58.97 | 68.26 | -9.29 | Peak |
| 16500 | 44.86 | 0 | 100 | H | 38.51 | 10.07 | 34.04 | 59.40 | 68.26 | -8.86 | Peak |
| Middle Channel 5580 MHz | | | | | | | | | | | |
| 5580 | 59.17 | 88 | 241 | V | 33.92 | 5.34 | 0.00 | 98.43 | - | - | Peak |
| 5580 | 59.94 | 311 | 234 | H | 33.92 | 5.34 | 0.00 | 99.20 | - | - | Peak |
| 5580 | 49.14 | 109 | 285 | V | 33.92 | 5.34 | 0.00 | 88.40 | - | - | Ave |
| 5580 | 45.46 | 71 | 230 | H | 33.92 | 5.34 | 0.00 | 84.72 | - | - | Ave |
| 11160 | 44.11 | 0 | 100 | V | 38.53 | 10.07 | 34.34 | 58.36 | 74 | -15.64 | Peak |
| 11160 | 44.22 | 0 | 100 | H | 38.53 | 10.07 | 34.34 | 58.47 | 74 | -15.53 | Peak |
| 11160 | 31.28 | 0 | 100 | V | 38.53 | 10.07 | 34.34 | 45.53 | 54 | -8.47 | Ave |
| 11160 | 31.28 | 0 | 100 | H | 38.53 | 10.07 | 34.34 | 45.53 | 54 | -8.47 | Ave |
| 16740 | 45.09 | 0 | 100 | V | 38.68 | 10.07 | 34.04 | 59.80 | 68.26 | -8.46 | Peak |
| 16740 | 44.96 | 0 | 100 | H | 38.68 | 10.07 | 34.04 | 59.67 | 68.26 | -8.59 | Peak |
| High Channel 5700 MHz | | | | | | | | | | | |
| 5700 | 60.32 | 118 | 210 | V | 33.87 | 5.57 | 0.00 | 99.76 | - | - | Peak |
| 5700 | 59.32 | 138 | 236 | H | 33.87 | 5.57 | 0.00 | 98.76 | - | - | Peak |
| 5700 | 48.59 | 120 | 232 | V | 33.87 | 5.57 | 0.00 | 88.03 | - | - | Ave |
| 5700 | 47.59 | 50 | 262 | H | 33.87 | 5.57 | 0.00 | 87.03 | - | - | Ave |
| 5725 | 28.49 | 0 | 100 | V | 33.87 | 5.57 | 0.00 | 67.93 | 68.26 | -0.33 | Peak |
| 5725 | 28.62 | 0 | 100 | H | 33.87 | 5.57 | 0.00 | 68.06 | 68.26 | -0.20 | Peak |
| 11400 | 45.01 | 0 | 100 | V | 38.50 | 10.07 | 35.20 | 58.38 | 74 | -15.62 | Peak |
| 11400 | 44.51 | 0 | 100 | H | 38.50 | 10.07 | 35.20 | 57.88 | 74 | -16.12 | Peak |
| 11400 | 31.83 | 0 | 100 | V | 38.50 | 10.07 | 35.20 | 45.20 | 54 | -8.80 | Ave |
| 11400 | 31.90 | 0 | 100 | H | 38.50 | 10.07 | 35.20 | 45.27 | 54 | -8.73 | Ave |
| 17100 | 45.29 | 0 | 100 | V | 41.03 | 10.07 | 33.83 | 62.55 | 68.26 | -5.71 | Peak |
| 17100 | 45.26 | 0 | 100 | H | 41.03 | 10.07 | 33.83 | 62.52 | 68.26 | -5.74 | Peak |

802.11a mode chain 2

| Frequency (MHz) | S.A. Reading (dB μ V) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre- Amp. (dB) | Cord. Reading (dB μ V/m) | FCC/IC | | Comments (PK/Ave.) |
|-------------------------|---------------------------------|-----------------------------------|----------------|-------------------|------------------|-----------------------|----------------------|------------------------------------|-------------------------|----------------|-----------------------|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dB μ V/m) | Margin (dB) | |
| Low Channel 5500 MHz | | | | | | | | | | | |
| 5500 | 61.73 | 272 | 295 | V | 33.85 | 5.34 | 0.00 | 100.91 | - | - | Peak |
| 5500 | 61.88 | 241 | 177 | H | 33.85 | 5.34 | 0.00 | 101.06 | - | - | Peak |
| 5500 | 50.08 | 265 | 250 | V | 33.85 | 5.34 | 0.00 | 89.26 | - | - | Ave |
| 5500 | 50.27 | 239 | 100 | H | 33.85 | 5.34 | 0.00 | 89.45 | - | - | Ave |
| 5460 | 26.64 | 272 | 295 | V | 33.85 | 5.34 | 0.00 | 65.82 | 74 | -8.18 | Peak |
| 5460 | 26.45 | 241 | 177 | H | 33.85 | 5.34 | 0.00 | 65.63 | 74 | -8.37 | Peak |
| 5460 | 12.12 | 265 | 250 | V | 33.85 | 5.34 | 0.00 | 51.30 | 54 | -2.70 | Ave |
| 5460 | 12.14 | 239 | 100 | H | 33.85 | 5.34 | 0.00 | 51.32 | 54 | -2.68 | Ave |
| 11000 | 43.60 | 0 | 100 | V | 38.28 | 10.07 | 34.34 | 57.60 | 74 | -16.40 | Peak |
| 11000 | 44.84 | 0 | 100 | H | 38.28 | 10.07 | 34.34 | 58.84 | 74 | -15.16 | Peak |
| 11000 | 31.08 | 0 | 100 | V | 38.28 | 10.07 | 34.34 | 45.08 | 54 | -8.92 | Ave |
| 11000 | 31.08 | 0 | 100 | H | 38.28 | 10.07 | 34.34 | 45.08 | 54 | -8.92 | Ave |
| 16500 | 45.03 | 0 | 100 | V | 38.51 | 10.07 | 34.04 | 59.57 | 68.26 | -8.69 | Peak |
| 16500 | 44.79 | 0 | 100 | H | 38.51 | 10.07 | 34.04 | 59.33 | 68.26 | -8.93 | Peak |
| Middle Channel 5580 MHz | | | | | | | | | | | |
| 5580 | 62.94 | 265 | 180 | V | 33.92 | 5.34 | 0.00 | 102.20 | - | - | Peak |
| 5580 | 63.07 | 246 | 193 | H | 33.92 | 5.34 | 0.00 | 102.33 | - | - | Peak |
| 5580 | 52.01 | 266 | 229 | V | 33.92 | 5.34 | 0.00 | 91.27 | - | - | Ave |
| 5580 | 52.06 | 242 | 138 | H | 33.92 | 5.34 | 0.00 | 91.32 | - | - | Ave |
| 11160 | 44.55 | 0 | 100 | V | 38.53 | 10.07 | 34.34 | 58.80 | 74 | -15.20 | Peak |
| 11160 | 44.67 | 0 | 100 | H | 38.53 | 10.07 | 34.34 | 58.92 | 74 | -15.08 | Peak |
| 11160 | 31.18 | 0 | 100 | V | 38.53 | 10.07 | 34.34 | 45.43 | 54 | -8.57 | Ave |
| 11160 | 31.26 | 0 | 100 | H | 38.53 | 10.07 | 34.34 | 45.51 | 54 | -8.49 | Ave |
| 16740 | 45.06 | 0 | 100 | V | 38.68 | 10.07 | 34.04 | 59.77 | 68.26 | -8.49 | Peak |
| 16740 | 44.39 | 0 | 100 | H | 38.68 | 10.07 | 34.04 | 59.10 | 68.26 | -9.16 | Peak |
| High Channel 5700 MHz | | | | | | | | | | | |
| 5700 | 56.03 | 104 | 225 | V | 33.87 | 5.57 | 0.00 | 95.47 | - | - | Peak |
| 5700 | 54.39 | 346 | 119 | H | 33.87 | 5.57 | 0.00 | 93.83 | - | - | Peak |
| 5700 | 44.422 | 104 | 225 | V | 33.87 | 5.57 | 0.00 | 83.87 | - | - | Ave |
| 5700 | 43.78 | 346 | 119 | H | 33.87 | 5.57 | 0.00 | 83.22 | - | - | Ave |
| 5725 | 28.02 | 104 | 225 | V | 33.87 | 5.57 | 0.00 | 67.46 | 68.26 | -0.80 | Peak |
| 5725 | 28.05 | 346 | 119 | H | 33.87 | 5.57 | 0.00 | 67.49 | 68.26 | -0.77 | Peak |
| 11400 | 45.48 | 0 | 100 | V | 38.50 | 10.07 | 35.20 | 58.85 | 74 | -15.15 | Peak |
| 11400 | 45.68 | 0 | 100 | H | 38.50 | 10.07 | 35.20 | 59.05 | 74 | -14.95 | Peak |
| 11400 | 31.90 | 0 | 100 | V | 38.50 | 10.07 | 35.20 | 45.27 | 54 | -8.73 | Ave |
| 11400 | 31.87 | 0 | 100 | H | 38.50 | 10.07 | 35.20 | 45.24 | 54 | -8.76 | Ave |
| 17100 | 43.88 | 0 | 100 | V | 41.03 | 10.07 | 33.83 | 61.14 | 68.26 | -7.12 | Peak |
| 17100 | 44.36 | 0 | 100 | H | 41.03 | 10.07 | 33.83 | 61.62 | 68.26 | -6.64 | Peak |

802.11n20 mode

| Frequency (MHz) | S.A. Reading (dB μ V) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre- Amp. (dB) | Cord. Reading (dB μ V/m) | FCC/IC | | Comments (PK/Ave.) |
|-------------------------|---------------------------------|-----------------------------------|----------------|-------------------|------------------|-----------------------|----------------------|------------------------------------|-------------------------|----------------|-----------------------|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dB μ V/m) | Margin (dB) | |
| Low Channel 5500 MHz | | | | | | | | | | | |
| 5500 | 63.76 | 267 | 169 | V | 33.85 | 5.34 | 0.00 | 102.94 | - | - | Peak |
| 5500 | 63.99 | 240 | 100 | H | 33.85 | 5.34 | 0.00 | 103.17 | - | - | Peak |
| 5500 | 60.68 | 270 | 225 | V | 33.85 | 5.34 | 0.00 | 99.86 | - | - | Ave |
| 5500 | 50.75 | 243 | 180 | H | 33.85 | 5.34 | 0.00 | 89.93 | - | - | Ave |
| 5460 | 26.8 | 267 | 169 | V | 33.85 | 5.34 | 0.00 | 65.98 | 74 | -8.02 | Peak |
| 5460 | 27.09 | 240 | 100 | H | 33.85 | 5.34 | 0.00 | 66.27 | 74 | -7.73 | Peak |
| 5460 | 12.6 | 270 | 225 | V | 33.85 | 5.34 | 0.00 | 51.78 | 54 | -2.22 | Ave |
| 5460 | 12.6 | 243 | 180 | H | 33.85 | 5.34 | 0.00 | 51.78 | 54 | -2.22 | Ave |
| 11000 | 44.87 | 0 | 100 | V | 38.28 | 10.07 | 34.34 | 58.87 | 74 | -15.13 | Peak |
| 11000 | 44.91 | 0 | 100 | H | 38.28 | 10.07 | 34.34 | 58.91 | 74 | -15.09 | Peak |
| 11000 | 31.11 | 0 | 100 | V | 38.28 | 10.07 | 34.34 | 45.11 | 54 | -8.89 | Ave |
| 11000 | 31.14 | 0 | 100 | H | 38.28 | 10.07 | 34.34 | 45.14 | 54 | -8.86 | Ave |
| 16500 | 44.06 | 0 | 100 | V | 38.51 | 10.07 | 34.04 | 58.60 | 68.26 | -9.66 | Peak |
| 16500 | 44.82 | 0 | 100 | H | 38.51 | 10.07 | 34.04 | 59.36 | 68.26 | -8.90 | Peak |
| Middle Channel 5580 MHz | | | | | | | | | | | |
| 5580 | 64.97 | 272 | 181 | V | 33.92 | 5.34 | 0.00 | 104.23 | - | - | Peak |
| 5580 | 65.21 | 238 | 125 | H | 33.92 | 5.34 | 0.00 | 104.47 | - | - | Peak |
| 5580 | 51.8 | 274 | 300 | V | 33.92 | 5.34 | 0.00 | 91.06 | - | - | Ave |
| 5580 | 52.03 | 241 | 155 | H | 33.92 | 5.34 | 0.00 | 91.29 | - | - | Ave |
| 11160 | 44.62 | 0 | 100 | V | 38.53 | 10.07 | 34.34 | 58.87 | 74 | -15.13 | Peak |
| 11160 | 44.84 | 0 | 100 | H | 38.53 | 10.07 | 34.34 | 59.09 | 74 | -14.91 | Peak |
| 11160 | 31.23 | 0 | 100 | V | 38.53 | 10.07 | 34.34 | 45.48 | 54 | -8.52 | Ave |
| 11160 | 31.25 | 0 | 100 | H | 38.53 | 10.07 | 34.34 | 45.50 | 54 | -8.50 | Ave |
| 16740 | 44.55 | 0 | 100 | V | 38.68 | 10.07 | 34.04 | 59.26 | 68.26 | -9.00 | Peak |
| 16740 | 44.80 | 0 | 100 | H | 38.68 | 10.07 | 34.04 | 59.51 | 68.26 | -8.75 | Peak |
| High Channel 5700 MHz | | | | | | | | | | | |
| 5700 | 57.59 | 290 | 289 | V | 33.87 | 5.57 | 0.00 | 97.03 | - | - | Peak |
| 5700 | 56.96 | 242 | 198 | H | 33.87 | 5.57 | 0.00 | 96.40 | - | - | Peak |
| 5700 | 45.68 | 290 | 289 | V | 33.87 | 5.57 | 0.00 | 85.12 | - | - | Ave |
| 5700 | 44.397 | 242 | 198 | H | 33.87 | 5.57 | 0.00 | 83.84 | - | - | Ave |
| 5725 | 27.95 | 290 | 289 | V | 33.87 | 5.57 | 0.00 | 67.39 | 68.26 | -0.87 | Peak |
| 5725 | 27.56 | 242 | 198 | H | 33.87 | 5.57 | 0.00 | 67.00 | 68.26 | -1.26 | Peak |
| 11400 | 45.55 | 0 | 100 | V | 38.50 | 10.07 | 35.20 | 58.92 | 74 | -15.08 | Peak |
| 11400 | 46.05 | 0 | 100 | H | 38.50 | 10.07 | 35.20 | 59.42 | 74 | -14.58 | Peak |
| 11400 | 31.88 | 0 | 100 | V | 38.50 | 10.07 | 35.20 | 45.25 | 54 | -8.75 | Ave |
| 11400 | 32.12 | 0 | 100 | H | 38.50 | 10.07 | 35.20 | 45.49 | 54 | -8.51 | Ave |
| 17100 | 44.48 | 0 | 100 | V | 41.03 | 10.07 | 33.83 | 61.74 | 68.26 | -6.52 | Peak |
| 17100 | 45.88 | 0 | 100 | H | 41.03 | 10.07 | 33.83 | 63.14 | 68.26 | -5.12 | Peak |

802.11n40 mode

| Frequency (MHz) | S.A. Reading (dB μ V) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre- Amp. (dB) | Cord. Reading (dB μ V/m) | FCC/IC | | Comments (PK/Ave.) |
|-------------------------|---------------------------------|-----------------------------------|----------------|-------------------|------------------|-----------------------|----------------------|------------------------------------|-------------------------|----------------|-----------------------|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dB μ V/m) | Margin (dB) | |
| Low Channel 5510 MHz | | | | | | | | | | | |
| 5510 | 60.64 | 294 | 300 | V | 33.85 | 5.34 | 0.00 | 99.82 | - | - | Peak |
| 5510 | 61.42 | 245 | 158 | H | 33.85 | 5.34 | 0.00 | 100.60 | - | - | Peak |
| 5510 | 48.94 | 271 | 300 | V | 33.85 | 5.34 | 0.00 | 88.12 | - | - | Ave |
| 5510 | 49.16 | 245 | 151 | H | 33.85 | 5.34 | 0.00 | 88.34 | - | - | Ave |
| 5460 | 27.19 | 0 | 100 | V | 33.85 | 5.34 | 0.00 | 66.37 | 74 | -7.63 | Peak |
| 5460 | 28.34 | 0 | 100 | H | 33.85 | 5.34 | 0.00 | 67.52 | 74 | -6.48 | Peak |
| 5460 | 12.93 | 271 | 300 | V | 33.85 | 5.34 | 0.00 | 52.11 | 54 | -1.89 | Ave |
| 5460 | 12.97 | 245 | 151 | H | 33.85 | 5.34 | 0.00 | 52.15 | 54 | -1.85 | Ave |
| 11020 | 44.33 | 0 | 100 | V | 38.28 | 10.07 | 34.34 | 58.33 | 74 | -15.67 | Peak |
| 11020 | 44.46 | 0 | 100 | H | 38.28 | 10.07 | 34.34 | 58.46 | 74 | -15.54 | Peak |
| 11020 | 30.96 | 0 | 100 | V | 38.28 | 10.07 | 34.34 | 44.96 | 54 | -9.04 | Ave |
| 11020 | 30.97 | 0 | 100 | H | 38.28 | 10.07 | 34.34 | 44.97 | 54 | -9.03 | Ave |
| 16530 | 44.41 | 0 | 100 | V | 38.51 | 10.07 | 34.04 | 58.95 | 68.26 | -9.31 | Peak |
| 16530 | 44.17 | 0 | 100 | H | 38.51 | 10.07 | 34.04 | 58.71 | 68.26 | -9.55 | Peak |
| Middle Channel 5550 MHz | | | | | | | | | | | |
| 5550 | 61.9 | 275 | 194 | V | 33.92 | 5.34 | 0.00 | 101.16 | - | - | Peak |
| 5550 | 62.98 | 244 | 167 | H | 33.92 | 5.34 | 0.00 | 102.24 | - | - | Peak |
| 5550 | 50.31 | 291 | 195 | V | 33.92 | 5.34 | 0.00 | 89.57 | - | - | Ave |
| 5550 | 50.29 | 246 | 100 | H | 33.92 | 5.34 | 0.00 | 89.55 | - | - | Ave |
| 11100 | 43.51 | 0 | 100 | V | 38.28 | 10.07 | 34.34 | 57.51 | 74 | -16.49 | Peak |
| 11100 | 45.54 | 0 | 100 | H | 38.28 | 10.07 | 34.34 | 59.54 | 74 | -14.46 | Peak |
| 11100 | 31.64 | 0 | 100 | V | 38.28 | 10.07 | 34.34 | 45.64 | 54 | -8.36 | Ave |
| 11100 | 31.66 | 0 | 100 | H | 38.28 | 10.07 | 34.34 | 45.66 | 54 | -8.34 | Ave |
| 16650 | 45.88 | 0 | 100 | V | 38.51 | 10.07 | 34.04 | 60.42 | 74 | -13.58 | Peak |
| 16650 | 44.43 | 0 | 100 | H | 38.51 | 10.07 | 34.04 | 58.97 | 74 | -15.03 | Peak |
| High Channel 5670 MHz | | | | | | | | | | | |
| 5670 | 60.62 | 273 | 181 | V | 33.87 | 5.57 | 0.00 | 100.06 | - | - | Peak |
| 5670 | 59.89 | 243 | 210 | H | 33.87 | 5.57 | 0.00 | 99.33 | - | - | Peak |
| 5670 | 47.63 | 274 | 205 | V | 33.87 | 5.57 | 0.00 | 87.07 | - | - | Ave |
| 5670 | 47.05 | 68 | 199 | H | 33.87 | 5.57 | 0.00 | 86.49 | - | - | Ave |
| 5725 | 27.5 | 0 | 100 | V | 33.87 | 5.57 | 0.00 | 66.94 | 68.26 | -1.32 | Peak |
| 5725 | 28.33 | 0 | 100 | H | 33.87 | 5.57 | 0.00 | 67.77 | 68.26 | -0.49 | Peak |
| 11340 | 44.55 | 0 | 100 | V | 38.28 | 10.07 | 34.34 | 58.55 | 74 | -15.45 | Peak |
| 11340 | 45.71 | 0 | 100 | H | 38.28 | 10.07 | 34.34 | 59.71 | 74 | -14.29 | Peak |
| 11340 | 31.45 | 0 | 100 | V | 38.28 | 10.07 | 34.34 | 45.45 | 54 | -8.55 | Ave |
| 11340 | 31.42 | 0 | 100 | H | 38.28 | 10.07 | 34.34 | 45.42 | 54 | -8.58 | Ave |
| 17010 | 43.78 | 0 | 100 | V | 39.99 | 10.83 | 33.83 | 60.77 | 68.26 | -7.49 | Peak |

802.11ac20 mode

| Frequency (MHz) | S.A. Reading (dB μ V) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre- Amp. (dB) | Cord. Reading (dB μ V/m) | FCC/IC | | Comments (PK/Ave.) |
|-------------------------|---------------------------------|-----------------------------------|----------------|-------------------|------------------|-----------------------|----------------------|------------------------------------|-------------------------|----------------|-----------------------|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dB μ V/m) | Margin (dB) | |
| Low Channel 5500 MHz | | | | | | | | | | | |
| 5500 | 63.84 | 279 | 269 | V | 33.85 | 5.34 | 0.00 | 103.02 | - | - | Peak |
| 5500 | 63.34 | 255 | 127 | H | 33.85 | 5.34 | 0.00 | 102.52 | - | - | Peak |
| 5500 | 50.67 | 279 | 269 | V | 33.85 | 5.34 | 0.00 | 89.85 | - | - | Ave |
| 5500 | 50.08 | 255 | 127 | H | 33.85 | 5.34 | 0.00 | 89.26 | - | - | Ave |
| 5460 | 26.07 | 279 | 269 | V | 33.85 | 5.34 | 0.00 | 65.25 | 74 | -8.75 | Peak |
| 5460 | 25.58 | 255 | 127 | H | 33.85 | 5.34 | 0.00 | 64.76 | 74 | -9.24 | Peak |
| 5460 | 13.11 | 279 | 269 | V | 33.85 | 5.34 | 0.00 | 52.29 | 54 | -1.71 | Ave |
| 5460 | 13.1 | 255 | 127 | H | 33.85 | 5.34 | 0.00 | 52.28 | 54 | -1.72 | Ave |
| 11000 | 45.27 | 0 | 100 | V | 37.98 | 10.64 | 35.08 | 58.81 | 74 | -15.19 | Peak |
| 11000 | 47.64 | 246 | 162 | H | 38.28 | 10.64 | 35.08 | 61.48 | 74 | -12.52 | Peak |
| 11000 | 30.01 | 0 | 100 | V | 37.98 | 10.64 | 35.08 | 43.55 | 54 | -10.45 | Ave |
| 11000 | 31.65 | 246 | 162 | H | 38.28 | 10.64 | 35.08 | 45.49 | 54 | -8.51 | Ave |
| 16500 | 45.91 | 0 | 100 | V | 37.94 | 12.55 | 34.38 | 62.02 | 68.26 | -6.25 | Peak |
| 16500 | 46.06 | 0 | 100 | H | 38.51 | 12.55 | 34.38 | 62.74 | 68.26 | -5.52 | Peak |
| Middle Channel 5580 MHz | | | | | | | | | | | |
| 5580 | 65.03 | 281 | 283 | V | 33.92 | 5.34 | 0.00 | 104.29 | - | - | Peak |
| 5580 | 64.79 | 254 | 112 | H | 33.92 | 5.34 | 0.00 | 104.05 | - | - | Peak |
| 5580 | 52 | 281 | 283 | V | 33.92 | 5.34 | 0.00 | 91.26 | - | - | Ave |
| 5580 | 51.73 | 254 | 112 | H | 33.92 | 5.34 | 0.00 | 90.99 | - | - | Ave |
| 11160 | 44.49 | 0 | 100 | V | 38.42 | 11.93 | 34.46 | 60.38 | 74 | -13.62 | Peak |
| 11160 | 46.71 | 249 | 190 | H | 38.53 | 11.93 | 34.46 | 62.71 | 74 | -11.30 | Peak |
| 11160 | 29.37 | 0 | 100 | V | 38.42 | 11.93 | 34.46 | 45.26 | 54 | -8.74 | Ave |
| 11160 | 30.81 | 249 | 190 | H | 38.53 | 11.93 | 34.46 | 46.81 | 54 | -7.20 | Ave |
| 16740 | 46.53 | 0 | 100 | V | 38.50 | 12.97 | 34.23 | 63.77 | 68.26 | -4.49 | Peak |
| 16740 | 46.58 | 0 | 100 | H | 38.68 | 12.97 | 34.23 | 64.00 | 68.26 | -4.26 | Peak |
| High Channel 5700 MHz | | | | | | | | | | | |
| 5700 | 62.57 | 288 | 275 | V | 33.87 | 5.57 | 0.00 | 102.01 | - | - | Peak |
| 5700 | 63.07 | 251 | 166 | H | 33.87 | 5.57 | 0.00 | 102.51 | - | - | Peak |
| 5700 | 49.1 | 288 | 275 | V | 33.87 | 5.57 | 0.00 | 88.54 | - | - | Ave |
| 5700 | 49.3 | 251 | 166 | H | 33.87 | 5.57 | 0.00 | 88.74 | - | - | Ave |
| 5725 | 28.02 | 288 | 275 | V | 33.87 | 5.57 | 0.00 | 67.46 | 68.26 | -0.80 | Peak |
| 5725 | 28.5 | 251 | 166 | H | 33.87 | 5.57 | 0.00 | 67.94 | 68.26 | -0.32 | Peak |
| 11400 | 45.56 | 0 | 100 | V | 38.89 | 11.51 | 34.16 | 61.80 | 74 | -12.20 | Peak |
| 11400 | 45.70 | 0 | 100 | H | 38.50 | 11.51 | 34.16 | 61.55 | 74 | -12.45 | Peak |
| 11400 | 30.40 | 0 | 100 | V | 38.89 | 11.51 | 34.16 | 46.64 | 54 | -7.36 | Ave |
| 11400 | 30.46 | 0 | 100 | H | 38.50 | 11.51 | 34.16 | 46.31 | 54 | -7.69 | Ave |
| 17100 | 46.47 | 0 | 100 | V | 41.03 | 12.85 | 33.83 | 66.52 | 68.26 | -1.74 | Peak |
| 17100 | 46.48 | 0 | 100 | H | 41.03 | 12.85 | 33.83 | 66.53 | 68.26 | -1.73 | Peak |

802.11ac40 mode

| Frequency (MHz) | S.A. Reading (dB μ V) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre- Amp. (dB) | Cord. Reading (dB μ V/m) | FCC/IC | | Comments (PK/Ave.) |
|-------------------------|---------------------------------|-----------------------------------|----------------|-------------------|------------------|-----------------------|----------------------|------------------------------------|-------------------------|----------------|-----------------------|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dB μ V/m) | Margin (dB) | |
| Low Channel 5510 MHz | | | | | | | | | | | |
| 5510 | 57.61 | 280 | 283 | V | 33.85 | 5.34 | 0.00 | 96.79 | - | - | Peak |
| 5510 | 57.19 | 245 | 180 | H | 33.85 | 5.34 | 0.00 | 96.37 | - | - | Peak |
| 5510 | 43.19 | 280 | 283 | V | 33.85 | 5.34 | 0.00 | 82.37 | - | - | Ave |
| 5510 | 43.2 | 245 | 180 | H | 33.85 | 5.34 | 0.00 | 82.38 | - | - | Ave |
| 5460 | 27.27 | 280 | 283 | V | 33.85 | 5.34 | 0.00 | 66.45 | 74 | -7.55 | Peak |
| 5460 | 26.76 | 245 | 180 | H | 33.85 | 5.34 | 0.00 | 65.94 | 74 | -8.06 | Peak |
| 5460 | 12.83 | 280 | 283 | V | 33.85 | 5.34 | 0.00 | 52.01 | 54 | -1.99 | Ave |
| 5460 | 13.3 | 245 | 180 | H | 33.85 | 5.34 | 0.00 | 52.48 | 54 | -1.52 | Ave |
| 11020 | 46.36 | 0 | 100 | V | 38.28 | 10.07 | 34.34 | 60.36 | 74 | -13.64 | Peak |
| 11020 | 47.19 | 0 | 100 | H | 38.28 | 10.07 | 34.34 | 61.19 | 74 | -12.81 | Peak |
| 11020 | 31.69 | 0 | 100 | V | 38.28 | 10.07 | 34.34 | 45.69 | 54 | -8.31 | Ave |
| 11020 | 31.64 | 0 | 100 | H | 38.28 | 10.07 | 34.34 | 45.64 | 54 | -8.36 | Ave |
| 16530 | 48.80 | 0 | 100 | V | 38.51 | 10.07 | 34.04 | 63.34 | 68.26 | -4.92 | Peak |
| 16530 | 48.71 | 0 | 100 | H | 38.51 | 10.07 | 34.04 | 63.25 | 68.26 | -5.01 | Peak |
| Middle Channel 5550 MHz | | | | | | | | | | | |
| 5550 | 56.71 | 286 | 270 | V | 33.92 | 5.34 | 0.00 | 95.97 | - | - | Peak |
| 5550 | 56.98 | 247 | 204 | H | 33.92 | 5.34 | 0.00 | 96.24 | - | - | Peak |
| 5550 | 43.25 | 286 | 270 | V | 33.92 | 5.34 | 0.00 | 82.51 | - | - | Ave |
| 5550 | 42.924 | 247 | 204 | H | 33.92 | 5.34 | 0.00 | 82.19 | - | - | Ave |
| 11100 | 47.93 | 0 | 100 | V | 38.28 | 10.07 | 34.34 | 61.93 | 74 | -12.07 | Peak |
| 11100 | 49.22 | 0 | 100 | H | 38.28 | 10.07 | 34.34 | 63.22 | 74 | -10.78 | Peak |
| 11100 | 32.79 | 0 | 100 | V | 38.28 | 10.07 | 34.34 | 46.79 | 54 | -7.21 | Ave |
| 11100 | 34.07 | 0 | 100 | H | 38.28 | 10.07 | 34.34 | 48.07 | 54 | -5.93 | Ave |
| 16650 | 49.21 | 0 | 100 | V | 38.51 | 10.07 | 34.04 | 63.75 | 68.26 | -4.51 | Peak |
| 16650 | 49.08 | 0 | 100 | H | 38.51 | 10.07 | 34.04 | 63.62 | 68.26 | -4.64 | Peak |
| High Channel 5670 MHz | | | | | | | | | | | |
| 5670 | 61.98 | 279 | 254 | V | 33.87 | 5.57 | 0.00 | 101.42 | - | - | Peak |
| 5670 | 61.09 | 247 | 170 | H | 33.87 | 5.57 | 0.00 | 100.53 | - | - | Peak |
| 5670 | 47.35 | 279 | 254 | V | 33.87 | 5.57 | 0.00 | 86.79 | - | - | Ave |
| 5670 | 46.83 | 247 | 170 | H | 33.87 | 5.57 | 0.00 | 86.27 | - | - | Ave |
| 5725 | 27.44 | 279 | 254 | V | 33.87 | 5.57 | 0.00 | 66.88 | 68.26 | -1.38 | Peak |
| 5725 | 26.86 | 247 | 170 | H | 33.87 | 5.57 | 0.00 | 66.30 | 68.26 | -1.96 | Peak |
| 11340 | 46.08 | 0 | 100 | V | 38.28 | 10.07 | 34.34 | 60.08 | 74 | -13.92 | Peak |
| 11340 | 46.45 | 0 | 100 | H | 38.28 | 10.07 | 34.34 | 60.45 | 74 | -13.55 | Peak |
| 11340 | 30.97 | 0 | 100 | V | 38.28 | 10.07 | 34.34 | 44.97 | 54 | -9.03 | Ave |
| 11340 | 31.13 | 0 | 100 | H | 38.28 | 10.07 | 34.34 | 45.13 | 54 | -8.87 | Ave |
| 17010 | 48.29 | 0 | 100 | V | 39.99 | 10.83 | 33.83 | 65.28 | 68.26 | -2.98 | Peak |
| 17010 | 47.48 | 0 | 100 | H | 39.99 | 10.83 | 33.83 | 64.47 | 68.26 | -3.79 | Peak |

802.11ac80 mode

| Frequency (MHz) | S.A. Reading (dB μ V) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre- Amp. (dB) | Cord. Reading (dB μ V/m) | FCC/IC | | Comments (PK/Ave.) |
|-------------------------|---------------------------------|-----------------------------------|----------------|-------------------|------------------|-----------------------|----------------------|------------------------------------|-------------------------|----------------|-----------------------|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dB μ V/m) | Margin (dB) | |
| Low Channel: 5530 MHz | | | | | | | | | | | |
| 5530 | 59.94 | 277 | 300 | V | 33.80 | 5.49 | 0.00 | 99.23 | - | - | Peak |
| 5530 | 56.46 | 20 | 140 | H | 33.85 | 5.49 | 0.00 | 95.80 | - | - | Peak |
| 5530 | 44.27 | 288 | 300 | V | 33.80 | 5.49 | 0.00 | 83.56 | - | - | Ave |
| 5530 | 43.74 | 252 | 175 | H | 33.85 | 5.49 | 0.00 | 83.08 | - | - | Ave |
| 5460 | 27.86 | 0 | 100 | V | 33.80 | 5.60 | 0.00 | 67.26 | 74 | -6.74 | Peak |
| 5460 | 28.52 | 0 | 100 | H | 33.85 | 5.60 | 0.00 | 67.97 | 74 | -6.03 | Peak |
| 5460 | 13.5 | 0 | 100 | V | 33.80 | 5.60 | 0.00 | 52.90 | 54 | -1.10 | Ave |
| 5460 | 13.41 | 0 | 100 | H | 33.85 | 5.60 | 0.00 | 52.86 | 54 | -1.14 | Ave |
| 11060 | 42.40 | 0 | 100 | V | 38.20 | 11.88 | 35.08 | 57.40 | 74 | -16.60 | Peak |
| 11060 | 42.85 | 0 | 100 | H | 38.37 | 11.88 | 35.08 | 58.02 | 74 | -15.98 | Peak |
| 11060 | 28.94 | 0 | 100 | V | 38.20 | 11.88 | 35.08 | 43.94 | 54 | -10.06 | Ave |
| 11060 | 28.98 | 0 | 100 | H | 38.37 | 11.88 | 35.08 | 44.15 | 54 | -9.85 | Ave |
| 16590 | 45.84 | 0 | 100 | V | 38.27 | 14.45 | 34.31 | 64.25 | 68.26 | -4.01 | Peak |
| 16590 | 44.2 | 0 | 100 | H | 38.55 | 14.45 | 34.31 | 62.89 | 68.26 | -5.37 | Peak |
| High Channel*: 5610 MHz | | | | | | | | | | | |
| 5610 | 56.07 | 270 | 300 | V | 33.796 | 8.46 | 0.00 | 98.326 | - | - | Peak |
| 5610 | 56.31 | 234 | 147 | H | 33.846 | 8.46 | 0.00 | 98.616 | - | - | Peak |
| 5610 | 41.34 | 268 | 212 | V | 33.796 | 8.46 | 0.00 | 83.596 | - | - | Ave |
| 5610 | 41.09 | 231 | 160 | H | 33.846 | 8.46 | 0.00 | 83.396 | - | - | Ave |
| 5725 | 43.8 | 0 | 100 | V | 33.91 | 8.62 | 34.37 | 51.95 | 68.26 | -16.31 | Peak |
| 5725 | 44.33 | 0 | 100 | H | 33.92 | 8.62 | 34.37 | 52.50 | 68.26 | -15.76 | Peak |
| 11220 | 44.39 | 0 | 100 | V | 38.20 | 12.36 | 35.08 | 59.87 | 74.00 | -14.13 | Peak |
| 11220 | 42.88 | 0 | 100 | H | 38.37 | 12.36 | 35.08 | 58.53 | 74.00 | -15.47 | Peak |
| 11220 | 28.98 | 0 | 100 | V | 38.20 | 12.36 | 35.08 | 44.46 | 54.00 | -9.54 | Ave |
| 11220 | 29.13 | 0 | 100 | H | 38.37 | 12.36 | 35.08 | 44.78 | 54.00 | -9.22 | Ave |
| 16830 | 41.92 | 0 | 100 | V | 38.27 | 15.49 | 34.31 | 61.37 | 68.26 | -6.89 | Peak |
| 16830 | 41.75 | 0 | 100 | H | 38.55 | 15.49 | 34.31 | 61.48 | 68.26 | -6.78 | Peak |

*Note: channel 122 is for FCC application only.

5725 - 5850 MHz

802.11a mode chain 1

| Frequency (MHz) | S.A. Reading (dB μ V) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre- Amp. (dB) | Cord. Reading (dB μ V/m) | FCC/IC | | Comments (PK/Ave.) |
|-------------------------|---------------------------------|-----------------------------------|----------------|-------------------|------------------|-----------------------|----------------------|------------------------------------|-------------------------|----------------|-----------------------|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dB μ V/m) | Margin (dB) | |
| Low Channel 5745 MHz | | | | | | | | | | | |
| 5745 | 62.72 | 113 | 269 | V | 33.87 | 5.57 | 0.00 | 102.16 | - | - | Peak |
| 5745 | 61.38 | 153 | 106 | H | 33.87 | 5.57 | 0.00 | 100.82 | - | - | Peak |
| 5745 | 52.06 | 113 | 296 | V | 33.87 | 5.57 | 0.00 | 91.50 | - | - | Ave |
| 5745 | 50.13 | 164 | 296 | H | 33.87 | 5.57 | 0.00 | 89.57 | - | - | Ave |
| 5725 | 30.2 | 119 | 268 | V | 33.87 | 5.57 | 0.00 | 69.64 | 78.26 | -8.62 | Peak |
| 5725 | 28.66 | 0 | 100 | H | 33.87 | 5.57 | 0.00 | 68.10 | 78.26 | -10.16 | Peak |
| 11490 | 43.63 | 0 | 100 | V | 38.42 | 10.07 | 35.20 | 56.91 | 74 | -17.09 | Peak |
| 11490 | 43.41 | 0 | 100 | H | 38.42 | 10.07 | 35.20 | 56.69 | 74 | -17.31 | Peak |
| 11490 | 30.73 | 0 | 100 | V | 38.42 | 10.07 | 35.20 | 44.01 | 54 | -9.99 | Ave |
| 11490 | 30.69 | 0 | 100 | H | 38.42 | 10.07 | 35.20 | 43.97 | 54 | -10.03 | Ave |
| 17235 | 44.89 | 0 | 100 | V | 42.02 | 10.07 | 33.63 | 63.34 | 68.26 | -4.92 | Peak |
| 17235 | 44.02 | 0 | 100 | H | 42.02 | 10.07 | 33.63 | 62.47 | 68.26 | -5.79 | Peak |
| Middle Channel 5785 MHz | | | | | | | | | | | |
| 5785 | 62.25 | 145 | 300 | V | 33.96 | 5.63 | 0.00 | 101.83 | - | - | Peak |
| 5785 | 62.56 | 56 | 131 | H | 33.96 | 5.63 | 0.00 | 102.14 | - | - | Peak |
| 5785 | 52.93 | 116 | 238 | V | 33.96 | 5.63 | 0.00 | 92.51 | - | - | Ave |
| 5785 | 51.58 | 145 | 100 | H | 33.96 | 5.63 | 0.00 | 91.16 | - | - | Ave |
| 11570 | 44.21 | 0 | 100 | V | 38.30 | 10.07 | 35.20 | 57.38 | 74 | -16.62 | Peak |
| 11570 | 44.12 | 0 | 100 | H | 38.30 | 10.07 | 35.20 | 57.29 | 74 | -16.71 | Peak |
| 11570 | 30.93 | 0 | 100 | V | 38.30 | 10.07 | 35.20 | 44.10 | 54 | -9.90 | Ave |
| 11570 | 31.02 | 0 | 100 | H | 38.30 | 10.07 | 35.20 | 44.19 | 54 | -9.81 | Ave |
| 17355 | 44.63 | 0 | 100 | V | 43.82 | 10.07 | 33.63 | 64.88 | 68.26 | -3.38 | Peak |
| 17355 | 45.22 | 0 | 100 | H | 43.82 | 10.07 | 33.63 | 65.47 | 68.26 | -2.79 | Peak |
| High Channel 5825 MHz | | | | | | | | | | | |
| 5825 | 59.68 | 51 | 300 | V | 33.96 | 5.63 | 0.00 | 99.26 | - | - | Peak |
| 5825 | 60.9 | 127 | 107 | H | 33.96 | 5.63 | 0.00 | 100.48 | - | - | Peak |
| 5825 | 50.08 | 106 | 259 | V | 33.96 | 5.63 | 0.00 | 89.66 | - | - | Ave |
| 5825 | 49.82 | 125 | 110 | H | 33.96 | 5.63 | 0.00 | 89.40 | - | - | Ave |
| 5850 | 28.59 | 0 | 100 | V | 34.22 | 5.78 | 0.00 | 68.59 | 78.26 | -9.67 | peak |
| 5850 | 28.46 | 0 | 100 | H | 34.22 | 5.78 | 0.00 | 68.46 | 78.26 | -9.80 | Peak |
| 11650 | 43.12 | 0 | 100 | V | 38.33 | 10.07 | 36.19 | 55.33 | 74 | -18.67 | Peak |
| 11650 | 43.01 | 0 | 100 | H | 38.33 | 10.07 | 36.19 | 55.22 | 74 | -18.78 | Peak |
| 11650 | 30.31 | 0 | 100 | V | 38.33 | 10.07 | 36.19 | 42.52 | 54 | -11.48 | Ave |
| 11650 | 30.26 | 0 | 100 | H | 38.33 | 10.07 | 36.19 | 42.47 | 54 | -11.53 | Ave |
| 17475 | 44.80 | 0 | 100 | V | 44.41 | 10.07 | 33.60 | 65.68 | 68.26 | -2.58 | Peak |
| 17475 | 45.02 | 0 | 100 | H | 44.41 | 10.07 | 33.60 | 65.90 | 68.26 | -2.36 | Peak |

802.11a mode chain 2

| Frequency (MHz) | S.A. Reading (dB μ V) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre- Amp. (dB) | Cord. Reading (dB μ V/m) | FCC/IC | | Comments (PK/Ave.) |
|-------------------------|---------------------------------|-----------------------------------|----------------|-------------------|------------------|-----------------------|----------------------|------------------------------------|-------------------------|----------------|-----------------------|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dB μ V/m) | Margin (dB) | |
| Low Channel 5745 MHz | | | | | | | | | | | |
| 5745 | 62.98 | 295 | 163 | V | 33.87 | 5.57 | 0.00 | 102.42 | - | - | Peak |
| 5745 | 63.27 | 240 | 181 | H | 33.87 | 5.57 | 0.00 | 102.71 | - | - | Peak |
| 5745 | 52.02 | 272 | 242 | V | 33.87 | 5.57 | 0.00 | 91.46 | - | - | Ave |
| 5745 | 50.88 | 18 | 197 | H | 33.87 | 5.57 | 0.00 | 90.32 | - | - | Ave |
| 5725 | 31.83 | 295 | 163 | V | 33.87 | 5.57 | 0.00 | 71.27 | 78.26 | -6.99 | Peak |
| 5725 | 32.79 | 19 | 180 | H | 33.87 | 5.57 | 0.00 | 72.23 | 78.26 | -6.03 | Peak |
| 11490 | 44.48 | 0 | 100 | V | 38.42 | 10.07 | 35.20 | 57.76 | 74 | -16.24 | Peak |
| 11490 | 44.98 | 0 | 100 | H | 38.42 | 10.07 | 35.20 | 58.26 | 74 | -15.74 | Peak |
| 11490 | 30.98 | 0 | 100 | V | 38.42 | 10.07 | 35.20 | 44.26 | 54 | -9.74 | Ave |
| 11490 | 31.00 | 0 | 100 | H | 38.42 | 10.07 | 35.20 | 44.28 | 54 | -9.72 | Ave |
| 17235 | 44.95 | 0 | 100 | V | 42.02 | 10.07 | 33.63 | 63.40 | 68.26 | -4.86 | Peak |
| 17235 | 44.18 | 0 | 100 | H | 42.02 | 10.07 | 33.63 | 62.63 | 68.26 | -5.63 | Peak |
| Middle Channel 5785 MHz | | | | | | | | | | | |
| 5785 | 62.93 | 286 | 288 | V | 33.96 | 5.63 | 0.00 | 102.51 | - | - | Peak |
| 5785 | 62.13 | 13 | 130 | H | 33.96 | 5.63 | 0.00 | 101.71 | - | - | Peak |
| 5785 | 50.82 | 265 | 165 | V | 33.96 | 5.63 | 0.00 | 90.40 | - | - | Ave |
| 5785 | 51 | 236 | 148 | H | 33.96 | 5.63 | 0.00 | 90.58 | - | - | Ave |
| 11570 | 44.70 | 0 | 100 | V | 38.30 | 10.07 | 35.20 | 57.87 | 74 | -16.13 | Peak |
| 11570 | 44.96 | 0 | 100 | H | 38.30 | 10.07 | 35.20 | 58.13 | 74 | -15.87 | Peak |
| 11570 | 30.92 | 0 | 100 | V | 38.30 | 10.07 | 35.20 | 44.09 | 54 | -9.91 | Ave |
| 11570 | 30.96 | 0 | 100 | H | 38.30 | 10.07 | 35.20 | 44.13 | 54 | -9.87 | Ave |
| 17355 | 44.61 | 0 | 100 | V | 43.82 | 10.07 | 33.63 | 64.86 | 68.26 | -3.40 | Peak |
| 17355 | 44.93 | 0 | 100 | H | 43.82 | 10.07 | 33.63 | 65.18 | 68.26 | -3.08 | Peak |
| High Channel 5825 MHz | | | | | | | | | | | |
| 5825 | 60.5 | 268 | 152 | V | 33.96 | 5.63 | 0.00 | 100.08 | - | - | Peak |
| 5825 | 60.6 | 235 | 235 | H | 33.96 | 5.63 | 0.00 | 100.18 | - | - | Peak |
| 5825 | 49.82 | 258 | 227 | V | 33.96 | 5.63 | 0.00 | 89.40 | - | - | Ave |
| 5825 | 50.09 | 226 | 132 | H | 33.96 | 5.63 | 0.00 | 89.67 | - | - | Ave |
| 5850 | 28.47 | 0 | 100 | V | 34.22 | 5.78 | 0.00 | 68.47 | 78.26 | -9.79 | peak |
| 5850 | 29.18 | 0 | 100 | H | 34.22 | 5.78 | 0.00 | 69.18 | 78.26 | -9.08 | Peak |
| 11650 | 45.60 | 0 | 100 | V | 38.33 | 10.07 | 36.19 | 57.81 | 74 | -16.19 | Peak |
| 11650 | 45.57 | 0 | 100 | H | 38.33 | 10.07 | 36.19 | 57.78 | 74 | -16.22 | Peak |
| 11650 | 31.47 | 0 | 100 | V | 38.33 | 10.07 | 36.19 | 43.68 | 54 | -10.32 | Ave |
| 11650 | 31.44 | 0 | 100 | H | 38.33 | 10.07 | 36.19 | 43.65 | 54 | -10.35 | Ave |
| 17475 | 44.94 | 0 | 100 | V | 44.41 | 10.07 | 33.60 | 65.82 | 68.26 | -2.44 | Peak |
| 17475 | 45.43 | 0 | 100 | H | 44.41 | 10.07 | 33.60 | 66.31 | 68.26 | -1.95 | Peak |

802.11n20 mode

| Frequency (MHz) | S.A. Reading (dB μ V) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre- Amp. (dB) | Cord. Reading (dB μ V/m) | FCC/IC | | Comments (PK/Ave.) |
|-------------------------|---------------------------------|-----------------------------------|----------------|-------------------|------------------|-----------------------|----------------------|------------------------------------|-------------------------|----------------|-----------------------|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dB μ V/m) | Margin (dB) | |
| Low Channel 5745 MHz | | | | | | | | | | | |
| 5745 | 65.49 | 102 | 287 | V | 33.87 | 5.57 | 0.00 | 104.93 | - | - | Peak |
| 5745 | 65.23 | 63 | 167 | H | 33.87 | 5.57 | 0.00 | 104.67 | - | - | Peak |
| 5745 | 50.21 | 280 | 166 | V | 33.87 | 5.57 | 0.00 | 89.65 | - | - | Ave |
| 5745 | 51.37 | 64 | 266 | H | 33.87 | 5.57 | 0.00 | 90.81 | - | - | Ave |
| 5725 | 37.64 | 277 | 245 | V | 33.87 | 5.57 | 0.00 | 77.08 | 78.26 | -1.18 | Peak |
| 5725 | 36.47 | 250 | 122 | H | 33.87 | 5.57 | 0.00 | 75.91 | 78.26 | -2.35 | Peak |
| 11490 | 44.26 | 0 | 100 | V | 38.42 | 10.07 | 35.20 | 57.54 | 74 | -16.46 | Peak |
| 11490 | 44.92 | 0 | 100 | H | 38.42 | 10.07 | 35.20 | 58.20 | 74 | -15.80 | Peak |
| 11490 | 31.05 | 0 | 100 | V | 38.42 | 10.07 | 35.20 | 44.33 | 54 | -9.67 | Ave |
| 11490 | 31.08 | 0 | 100 | H | 38.42 | 10.07 | 35.20 | 44.36 | 54 | -9.64 | Ave |
| 17235 | 44.53 | 0 | 100 | V | 42.02 | 10.07 | 33.63 | 62.98 | 68.26 | -5.28 | Peak |
| 17235 | 44.16 | 0 | 100 | H | 42.02 | 10.07 | 33.63 | 62.61 | 68.26 | -5.65 | Peak |
| Middle Channel 5785 MHz | | | | | | | | | | | |
| 5785 | 63.41 | 268 | 161 | V | 33.96 | 5.63 | 0.00 | 102.99 | - | - | Peak |
| 5785 | 66.55 | 54 | 207 | H | 33.96 | 5.63 | 0.00 | 106.13 | - | - | Peak |
| 5785 | 50.77 | 283 | 234 | V | 33.96 | 5.63 | 0.00 | 90.35 | - | - | Ave |
| 5785 | 52.41 | 56 | 258 | H | 33.96 | 5.63 | 0.00 | 91.99 | - | - | Ave |
| 11570 | 46.01 | 0 | 100 | V | 38.30 | 10.07 | 35.20 | 59.18 | 74 | -14.82 | Peak |
| 11570 | 45.08 | 0 | 100 | H | 38.30 | 10.07 | 35.20 | 58.25 | 74 | -15.75 | Peak |
| 11570 | 30.98 | 0 | 100 | V | 38.30 | 10.07 | 35.20 | 44.15 | 54 | -9.85 | Ave |
| 11570 | 31.18 | 0 | 100 | H | 38.30 | 10.07 | 35.20 | 44.35 | 54 | -9.65 | Ave |
| 17355 | 45.78 | 0 | 100 | V | 43.82 | 10.07 | 33.63 | 66.03 | 68.26 | -2.23 | Peak |
| 17355 | 45.16 | 0 | 100 | H | 43.82 | 10.07 | 33.63 | 65.41 | 68.26 | -2.85 | Peak |
| High Channel 5825 MHz | | | | | | | | | | | |
| 5825 | 62.32 | 277 | 300 | V | 33.96 | 5.63 | 0.00 | 101.90 | - | - | Peak |
| 5825 | 64.49 | 163 | 293 | H | 33.96 | 5.63 | 0.00 | 104.07 | - | - | Peak |
| 5825 | 47.45 | 350 | 249 | V | 33.96 | 5.63 | 0.00 | 87.03 | - | - | Ave |
| 5825 | 51.16 | 50 | 237 | H | 33.96 | 5.63 | 0.00 | 90.74 | - | - | Ave |
| 5850 | 30.06 | 277 | 300 | V | 34.22 | 5.78 | 0.00 | 70.06 | 78.26 | -8.20 | peak |
| 5850 | 29.19 | 163 | 293 | H | 34.22 | 5.78 | 0.00 | 69.19 | 78.26 | -9.07 | Peak |
| 11650 | 45.62 | 0 | 100 | V | 38.33 | 10.07 | 36.19 | 57.83 | 74 | -16.17 | Peak |
| 11650 | 45.66 | 0 | 100 | H | 38.33 | 10.07 | 36.19 | 57.87 | 74 | -16.13 | Peak |
| 11650 | 31.54 | 0 | 100 | V | 38.33 | 10.07 | 36.19 | 43.75 | 54 | -10.25 | Ave |
| 11650 | 31.64 | 0 | 100 | H | 38.33 | 10.07 | 36.19 | 43.85 | 54 | -10.15 | Ave |
| 17475 | 45.49 | 0 | 100 | V | 44.41 | 10.07 | 33.60 | 66.37 | 68.26 | -1.89 | Peak |
| 17475 | 45.05 | 0 | 100 | H | 44.41 | 10.07 | 33.60 | 65.93 | 68.26 | -2.33 | Peak |

802.11n40 mode

| Frequency (MHz) | S.A. Reading (dB μ V) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre- Amp. (dB) | Cord. Reading (dB μ V/m) | FCC/IC | | Comments (PK/Ave.) |
|-----------------------|---------------------------------|-----------------------------------|----------------|-------------------|------------------|-----------------------|----------------------|------------------------------------|-------------------------|----------------|-----------------------|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dB μ V/m) | Margin (dB) | |
| Low Channel 5755 MHz | | | | | | | | | | | |
| 5755 | 62.28 | 122 | 241 | V | 33.96 | 5.63 | 0.00 | 101.86 | - | - | Peak |
| 5755 | 62.31 | 139 | 284 | H | 33.96 | 5.63 | 0.00 | 101.89 | - | - | Peak |
| 5755 | 51.04 | 120 | 300 | V | 33.96 | 5.63 | 0.00 | 90.62 | - | - | Ave |
| 5755 | 49.88 | 29 | 300 | H | 33.96 | 5.63 | 0.00 | 89.46 | - | - | Ave |
| 5725 | 37.26 | 128 | 233 | V | 33.87 | 5.57 | 0.00 | 76.70 | 78.26 | -1.56 | Peak |
| 5725 | 37.54 | 63 | 263 | H | 33.87 | 5.57 | 0.00 | 76.98 | 78.26 | -1.28 | Peak |
| 11510 | 45.05 | 0 | 100 | V | 38.42 | 10.83 | 35.20 | 59.09 | 74 | -14.91 | Peak |
| 11510 | 45.04 | 0 | 100 | H | 38.42 | 10.83 | 35.20 | 59.08 | 74 | -14.92 | Peak |
| 11510 | 31.29 | 0 | 100 | V | 38.42 | 10.83 | 35.20 | 45.33 | 54 | -8.67 | Ave |
| 11510 | 31.36 | 0 | 100 | H | 38.42 | 10.83 | 35.20 | 45.40 | 54 | -8.60 | Ave |
| 17265 | 45.22 | 0 | 100 | V | 43.09 | 10.83 | 33.63 | 65.51 | 68.26 | -2.75 | Peak |
| 17265 | 44.62 | 0 | 100 | H | 43.09 | 10.83 | 33.63 | 64.91 | 68.26 | -3.35 | Peak |
| High Channel 5795 MHz | | | | | | | | | | | |
| 5795 | 59.55 | 278 | 293 | V | 33.96 | 5.63 | 0.00 | 99.13 | - | - | Peak |
| 5795 | 61.48 | 154 | 258 | H | 33.96 | 5.63 | 0.00 | 101.06 | - | - | Peak |
| 5795 | 49.6 | 113 | 300 | V | 33.96 | 5.63 | 0.00 | 89.18 | - | - | Ave |
| 5795 | 50.01 | 53 | 222 | H | 33.96 | 5.63 | 0.00 | 89.59 | - | - | Ave |
| 5850 | 29.22 | 0 | 100 | V | 34.22 | 5.78 | 0.00 | 69.22 | 78.26 | -9.04 | Peak |
| 5850 | 28.43 | 0 | 100 | H | 34.22 | 5.78 | 0.00 | 68.43 | 78.26 | -9.83 | Peak |
| 11590 | 43.96 | 0 | 100 | V | 38.30 | 10.83 | 35.20 | 57.89 | 74 | -16.11 | Peak |
| 11590 | 44.56 | 0 | 100 | H | 38.30 | 10.83 | 35.20 | 58.49 | 74 | -15.51 | Peak |
| 11590 | 30.98 | 0 | 100 | V | 38.30 | 10.83 | 35.20 | 44.91 | 54 | -9.09 | Ave |
| 11590 | 30.91 | 0 | 100 | H | 38.30 | 10.83 | 35.20 | 44.84 | 54 | -9.16 | Ave |
| 17385 | 45.27 | 0 | 100 | V | 43.82 | 10.83 | 33.63 | 66.28 | 68.26 | -1.98 | Peak |
| 17385 | 45.39 | 0 | 100 | H | 43.82 | 10.83 | 33.63 | 66.40 | 68.26 | -1.86 | Peak |

802.11ac20 mode

| Frequency (MHz) | S.A. Reading (dB μ V) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre- Amp. (dB) | Cord. Reading (dB μ V/m) | FCC/IC | | Comments (PK/Ave.) |
|-------------------------|---------------------------------|-----------------------------------|----------------|-------------------|------------------|-----------------------|----------------------|------------------------------------|-------------------------|----------------|-----------------------|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dB μ V/m) | Margin (dB) | |
| Low Channel 5745 MHz | | | | | | | | | | | |
| 5745 | 64.44 | 290 | 251 | V | 33.87 | 5.57 | 0.00 | 103.88 | - | - | Peak |
| 5745 | 64.04 | 240 | 220 | H | 33.87 | 5.57 | 0.00 | 103.48 | - | - | Peak |
| 5745 | 50.98 | 290 | 251 | V | 33.87 | 5.57 | 0.00 | 90.42 | - | - | Ave |
| 5745 | 50.91 | 240 | 220 | H | 33.87 | 5.57 | 0.00 | 90.35 | - | - | Ave |
| 5725 | 37.39 | 290 | 251 | V | 33.87 | 5.57 | 0.00 | 76.83 | 78.26 | -1.43 | Peak |
| 5725 | 33.72 | 240 | 220 | H | 33.87 | 5.57 | 0.00 | 73.16 | 78.26 | -5.10 | Peak |
| 11490 | 45.46 | 0 | 100 | V | 39.10 | 11.17 | 34.10 | 61.63 | 74 | -12.37 | Peak |
| 11490 | 48.29 | 139 | 185 | H | 38.42 | 11.17 | 34.10 | 63.78 | 74 | -10.22 | Peak |
| 11490 | 29.85 | 0 | 100 | V | 39.10 | 11.17 | 34.10 | 46.02 | 54 | -7.98 | Ave |
| 11490 | 32.36 | 139 | 185 | H | 38.42 | 11.17 | 34.10 | 47.85 | 54 | -6.15 | Ave |
| 17235 | 46.19 | 0 | 100 | V | 42.02 | 10.07 | 33.72 | 64.55 | 68.26 | -3.71 | Peak |
| 17235 | 45.89 | 0 | 100 | H | 42.02 | 10.07 | 33.72 | 64.25 | 68.26 | -4.01 | Peak |
| Middle Channel 5785 MHz | | | | | | | | | | | |
| 5785 | 64.01 | 293 | 253 | V | 33.96 | 5.63 | 0.00 | 103.59 | - | - | Peak |
| 5785 | 65.98 | 150 | 300 | H | 33.96 | 5.63 | 0.00 | 105.56 | - | - | Peak |
| 5785 | 50.61 | 293 | 253 | V | 33.96 | 5.63 | 0.00 | 90.19 | - | - | Ave |
| 5785 | 52.83 | 150 | 300 | H | 33.96 | 5.63 | 0.00 | 92.41 | - | - | Ave |
| 11570 | 44.91 | 0 | 100 | V | 39.38 | 11.04 | 34.06 | 61.27 | 74 | -12.73 | Peak |
| 11570 | 48.59 | 154 | 300 | H | 38.30 | 11.04 | 34.06 | 63.87 | 74 | -10.13 | Peak |
| 11570 | 30.23 | 0 | 100 | V | 39.38 | 11.04 | 34.06 | 46.59 | 54 | -7.41 | Ave |
| 11570 | 32.57 | 154 | 300 | H | 38.30 | 11.04 | 34.06 | 47.85 | 54 | -6.15 | Ave |
| 17355 | 45.04 | 0 | 100 | V | 43.82 | 10.07 | 33.81 | 65.11 | 68.26 | -3.15 | Peak |
| 17355 | 45.12 | 0 | 100 | H | 43.82 | 10.07 | 33.81 | 65.19 | 68.26 | -3.07 | Peak |
| High Channel 5825 MHz | | | | | | | | | | | |
| 5825 | 61.94 | 284 | 253 | V | 33.96 | 5.63 | 0.00 | 101.52 | - | - | Peak |
| 5825 | 64.61 | 150 | 295 | H | 33.96 | 5.63 | 0.00 | 104.19 | - | - | Peak |
| 5825 | 49.25 | 284 | 253 | V | 33.96 | 5.63 | 0.00 | 88.83 | - | - | Ave |
| 5825 | 51.91 | 150 | 295 | H | 33.96 | 5.63 | 0.00 | 91.49 | - | - | Ave |
| 5850 | 27.91 | 284 | 253 | V | 34.22 | 5.78 | 0.00 | 67.91 | 78.26 | -10.35 | peak |
| 5850 | 27.61 | 150 | 295 | H | 34.22 | 5.78 | 0.00 | 67.61 | 78.26 | -10.65 | Peak |
| 11650 | 46.02 | 0 | 100 | V | 39.91 | 11.02 | 34.12 | 62.83 | 74 | -11.17 | Peak |
| 11650 | 46.34 | 0 | 100 | H | 38.33 | 11.02 | 34.12 | 61.57 | 74 | -12.43 | Peak |
| 11650 | 30.84 | 0 | 100 | V | 39.91 | 11.02 | 34.12 | 47.65 | 54 | -6.35 | Ave |
| 11650 | 30.78 | 0 | 100 | H | 38.33 | 11.02 | 34.12 | 46.01 | 54 | -7.99 | Ave |
| 17475 | 44.62 | 0 | 100 | V | 44.41 | 10.07 | 33.87 | 65.23 | 68.26 | -3.03 | Peak |
| 17475 | 44.41 | 0 | 100 | H | 44.41 | 10.07 | 33.87 | 65.02 | 68.26 | -3.24 | Peak |

802.11ac40 mode

| Frequency (MHz) | S.A. Reading (dB μ V) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre- Amp. (dB) | Cord. Reading (dB μ V/m) | FCC/IC | | Comments (PK/Ave.) |
|-----------------------|---------------------------------|-----------------------------------|----------------|-------------------|------------------|-----------------------|----------------------|------------------------------------|-------------------------|----------------|-----------------------|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dB μ V/m) | Margin (dB) | |
| Low Channel 5755 MHz | | | | | | | | | | | |
| 5755 | 60.96 | 297 | 248 | V | 33.96 | 5.63 | 0.00 | 100.54 | - | - | Peak |
| 5755 | 61.22 | 241 | 159 | H | 33.96 | 5.63 | 0.00 | 100.80 | - | - | Peak |
| 5755 | 47.31 | 297 | 248 | V | 33.96 | 5.63 | 0.00 | 86.89 | - | - | Ave |
| 5755 | 47.02 | 241 | 159 | H | 33.96 | 5.63 | 0.00 | 86.60 | - | - | Ave |
| 5725 | 34.47 | 297 | 248 | V | 33.87 | 5.57 | 0.00 | 73.91 | 78.26 | -4.35 | Peak |
| 5725 | 34.41 | 241 | 159 | H | 33.87 | 5.57 | 0.00 | 73.85 | 78.26 | -4.41 | Peak |
| 11510 | 47.17 | 0 | 100 | V | 38.42 | 10.83 | 35.20 | 61.21 | 74 | -12.79 | Peak |
| 11510 | 48.03 | 0 | 100 | H | 38.42 | 10.83 | 35.20 | 62.07 | 74 | -11.93 | Peak |
| 11510 | 31.78 | 0 | 100 | V | 38.42 | 10.83 | 35.20 | 45.82 | 54 | -8.18 | Ave |
| 11510 | 31.76 | 0 | 100 | H | 38.42 | 10.83 | 35.20 | 45.80 | 54 | -8.20 | Ave |
| 17265 | 47.27 | 0 | 100 | V | 43.09 | 10.83 | 33.63 | 67.56 | 68.26 | -0.70 | Peak |
| 17265 | 46.65 | 0 | 100 | H | 43.09 | 10.83 | 33.63 | 66.94 | 68.26 | -1.32 | Peak |
| High Channel 5795 MHz | | | | | | | | | | | |
| 5795 | 60.72 | 243 | 290 | V | 33.96 | 5.63 | 0.00 | 100.30 | - | - | Peak |
| 5795 | 62.04 | 144 | 287 | H | 33.96 | 5.63 | 0.00 | 101.62 | - | - | Peak |
| 5795 | 47.1 | 243 | 290 | V | 33.96 | 5.63 | 0.00 | 86.68 | - | - | Ave |
| 5795 | 48.66 | 144 | 287 | H | 33.96 | 5.63 | 0.00 | 88.24 | - | - | Ave |
| 5850 | 27.08 | 243 | 290 | V | 34.22 | 5.78 | 0.00 | 67.08 | 78.26 | -11.18 | Peak |
| 5850 | 26.12 | 144 | 287 | H | 34.22 | 5.78 | 0.00 | 66.12 | 78.26 | -12.14 | Peak |
| 11590 | 46.73 | 0 | 100 | V | 38.30 | 10.83 | 35.20 | 60.66 | 74 | -13.34 | Peak |
| 11590 | 47.45 | 0 | 100 | H | 38.30 | 10.83 | 35.20 | 61.38 | 74 | -12.62 | Peak |
| 11590 | 31.25 | 0 | 100 | V | 38.30 | 10.83 | 35.20 | 45.18 | 54 | -8.82 | Ave |
| 11590 | 31.16 | 0 | 100 | H | 38.30 | 10.83 | 35.20 | 45.09 | 54 | -8.91 | Ave |
| 17385 | 46.60 | 0 | 100 | V | 43.82 | 10.83 | 33.63 | 67.61 | 68.26 | -0.65 | Peak |
| 17385 | 46.66 | 0 | 100 | H | 43.82 | 10.83 | 33.63 | 67.67 | 68.26 | -0.59 | Peak |

802.11ac80 mode

| Frequency (MHz) | S.A. Reading (dB μ V) | Turntable Azimuth (degrees) | Test Antenna | | | Cable Loss (dB) | Pre- Amp. (dB) | Cord. Reading (dB μ V/m) | FCC/IC | | Comments (PK/Ave.) |
|--------------------|---------------------------------|-----------------------------------|----------------|-------------------|------------------|-----------------------|----------------------|------------------------------------|-------------------------|----------------|-----------------------|
| | | | Height (cm) | Polarity (H/V) | Factor (dB/m) | | | | Limit (dB μ V/m) | Margin (dB) | |
| 5775 MHz | | | | | | | | | | | |
| 5775 | 53.64 | 286 | 209 | V | 33.96 | 5.63 | 0.00 | 93.22 | - | - | Peak |
| 5775 | 55.77 | 146 | 262 | H | 33.96 | 5.63 | 0.00 | 95.35 | - | - | Peak |
| 5775 | 39.09 | 286 | 209 | V | 33.96 | 5.63 | 0.00 | 78.67 | - | - | Ave |
| 5775 | 39.64 | 146 | 262 | H | 33.96 | 5.63 | 0.00 | 79.22 | - | - | Ave |
| 5725 | 28.41 | 286 | 209 | V | 33.87 | 5.57 | 0.00 | 67.85 | 78.26 | -10.41 | peak |
| 5725 | 28.76 | 146 | 262 | H | 33.87 | 5.57 | 0.00 | 68.20 | 78.26 | -10.06 | Peak |
| 5850 | 28.09 | 286 | 209 | V | 34.22 | 5.78 | 0.00 | 68.09 | 78.26 | -10.17 | peak |
| 5850 | 27.59 | 146 | 262 | H | 34.22 | 5.78 | 0.00 | 67.59 | 78.26 | -10.67 | Peak |
| 11550 | 44.39 | 0 | 100 | V | 39.38 | 12.04 | 34.06 | 61.75 | 74 | -12.25 | Peak |
| 11550 | 44.09 | 0 | 100 | H | 38.30 | 12.04 | 34.06 | 60.37 | 74 | -13.63 | Peak |
| 11550 | 29.48 | 0 | 100 | V | 39.38 | 12.04 | 34.06 | 46.84 | 54 | -7.16 | Ave |
| 11550 | 29.33 | 0 | 100 | H | 38.30 | 12.04 | 34.06 | 45.61 | 54 | -8.39 | Ave |
| 17325 | 44.99 | 0 | 100 | V | 43.09 | 14.80 | 33.73 | 69.15 | 74 | -4.85 | Peak |
| 17325 | 44.94 | 0 | 100 | H | 43.09 | 14.80 | 33.73 | 69.10 | 74 | -4.90 | Peak |

Note 1: Any emissions above 18 GHz are noise floor.

Note 2: Duty Cycle Correction Factor has been added to the measurements.

8 FCC §15.407(e) & IC RSS-247 §6.2 - 6 dB, 26 dB, & 99% Occupied Bandwidth

8.1 Applicable Standards

As per FCC §15.407(e) and IC RSS-247 6.2.4(1): for equipment operating in the band 5725 – 5850 MHz, the minimum 6 dB bandwidth of U-NII devices shall be 500 kHz.

8.2 Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 6 or 26 dB from the reference level. Record the frequency difference as the minimum emission or emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

8.3 Test Equipment List and Details

| Manufacturer | Description | Model No. | Serial No. | Calibration Date | Calibration Interval |
|--------------|----------------------|-----------|------------|------------------------|----------------------|
| Agilent | Analyzer, Spectrum | E4440A | MY44303352 | 2015-06-22 | 1 year |
| - | U. FL to SMA pigtail | - | - | Each time ¹ | N/A |
| - | 10dB attenuator | - | - | Each time ¹ | N/A |

Note¹: cable and attenuator included in the test set-up will be checked each time before testing.

Statement of Traceability: BACL Corp. attests that all calibrations have been performed per the A2LA requirements, traceable to the NIST.

8.4 Test Environmental Conditions

| | |
|--------------------|-----------------|
| Temperature: | 22-24 °C |
| Relative Humidity: | 40-41 % |
| ATM Pressure: | 103.1-104.1 kPa |

The testing was performed by Todd Moy on 2016-01-05 at RF site.

8.5 Test Results

Please refer to the following tables and plots.

5150 - 5250 MHz

| Channel | Frequency (MHz) | 99% OBW (kHz) | | 26 dB OBW (kHz) | |
|-----------------|--------------------|---------------|---------|-----------------|---------|
| | | Chain 1 | Chain 2 | Chain 1 | Chain 2 |
| 802.11 a mode | | | | | |
| 36 | 5180 | 16632.4 | 16673.6 | 21166 | 20921 |
| 40 | 5200 | 16646.3 | 16592.6 | 21320 | 21140 |
| 48 | 5240 | 16623.2 | 16652.7 | 20992 | 21000 |
| 802.11n20 mode | | | | | |
| 36 | 5180 | 17846.3 | 17750.2 | 21319 | 21106 |
| 40 | 5200 | 17833.5 | 17760.1 | 21418 | 21071 |
| 48 | 5240 | 17753.8 | 17778.2 | 21145 | 20867 |
| 802.11n40 mode | | | | | |
| 38 | 5190 | 35233.4 | 36150.9 | 39423 | 38950 |
| 46 | 5230 | 36233.9 | 36224.5 | 39796 | 39304 |
| 802.11ac20 mode | | | | | |
| 36 | 5180 | 17745.7 | 17735.3 | 21163 | 20796 |
| 40 | 5200 | 17757.9 | 17739.1 | 20945 | 21199 |
| 48 | 5240 | 17734.1 | 17762.8 | 21033 | 20776 |
| 802.11ac40 mode | | | | | |
| 38 | 5190 | 36222.5 | 36078.5 | 39364 | 39331 |
| 46 | 5230 | 36257 | 36127.1 | 42840 | 39313 |
| 802.11ac80 mode | | | | | |
| 42 | 5210 | 75587.1 | 75474.7 | 81145 | 80694 |

5250 - 5350 MHz

| Channel | Frequency (MHz) | 99% OBW (kHz) | | 26 dB OBW (kHz) | |
|-----------------|--------------------|---------------|---------|-----------------|---------|
| | | Chain 1 | Chain 2 | Chain 1 | Chain 2 |
| 802.11 a mode | | | | | |
| 52 | 5260 | 16654.8 | 16619.9 | 20929 | 20761 |
| 60 | 5300 | 16597.4 | 16648 | 20813 | 21475 |
| 64 | 5320 | 16630.3 | 16657.7 | 21002 | 21064 |
| 802.11n20 mode | | | | | |
| 52 | 5260 | 17805.7 | 17762.4 | 21259 | 20973 |
| 60 | 5300 | 17775.5 | 17828.2 | 21194 | 21478 |
| 64 | 5320 | 17838.7 | 17703.5 | 21102 | 21109 |
| 802.11n40 mode | | | | | |
| 54 | 5270 | 36229.6 | 36187.3 | 39344 | 39324 |
| 62 | 5310 | 36210.6 | 36163.3 | 39152 | 39541 |
| 802.11ac20 mode | | | | | |
| 52 | 5260 | 17832.6 | 17764.3 | 21112 | 20890 |
| 60 | 5300 | 17735.2 | 17749 | 21443 | 21223 |
| 64 | 5320 | 17757.4 | 17822.2 | 21368 | 21262 |
| 802.11ac40 mode | | | | | |
| 54 | 5270 | 36271.3 | 36214 | 39712 | 39534 |
| 62 | 5310 | 36149 | 36188.3 | 39497 | 40018 |
| 802.11ac80 mode | | | | | |
| 58 | 5290 | 75591 | 75562.4 | 81027 | 80630 |

5470 - 5725 MHz

| Channel | Frequency (MHz) | 99% OBW (kHz) | | 26 dB OBW (kHz) | |
|-----------------|--------------------|---------------|---------|-----------------|---------|
| | | Chain 1 | Chain 2 | Chain 1 | Chain 2 |
| 802.11 a mode | | | | | |
| 100 | 5500 | 16631.8 | 16655.5 | 21120 | 21007 |
| 116 | 5580 | 16630 | 16639.8 | 20886 | 20934 |
| 140 | 5700 | 16655.1 | 16586 | 20863 | 20559 |
| 802.11n20 mode | | | | | |
| 100 | 5500 | 17754.5 | 17774.5 | 20957 | 20882 |
| 116 | 5580 | 17822.8 | 17792.4 | 21029 | 21412 |
| 140 | 5700 | 17775.5 | 17779.7 | 21389 | 21398 |
| 802.11n40 mode | | | | | |
| 102 | 5510 | 36246.5 | 36210.2 | 39427 | 39270 |
| 110 | 5550 | 36257.9 | 36187.9 | 39356 | 39243 |
| 134 | 5670 | 36201.5 | 36235.1 | 39209 | 39317 |
| 802.11ac20 mode | | | | | |
| 100 | 5500 | 17815.5 | 17772.3 | 20885 | 21382 |
| 116 | 5580 | 17847.1 | 17761 | 21158 | 21174 |
| 140 | 5700 | 17747.3 | 17789.8 | 20854 | 21308 |
| 802.11ac40 mode | | | | | |
| 102 | 5510 | 36201.6 | 36173.4 | 39693 | 39614 |
| 110 | 5550 | 36175.9 | 36215.6 | 39321 | 39710 |
| 134 | 5670 | 36234.1 | 36212.6 | 39682 | 39319 |
| 802.11ac80 mode | | | | | |
| 106 | 5530 | 75728.4 | 75610.2 | 83310 | 82910 |
| 122* | 5610 | 75616.8 | 75644.9 | 89116 | 81096 |

*Note: This is an FCC only channel.

5725 - 5850 MHz

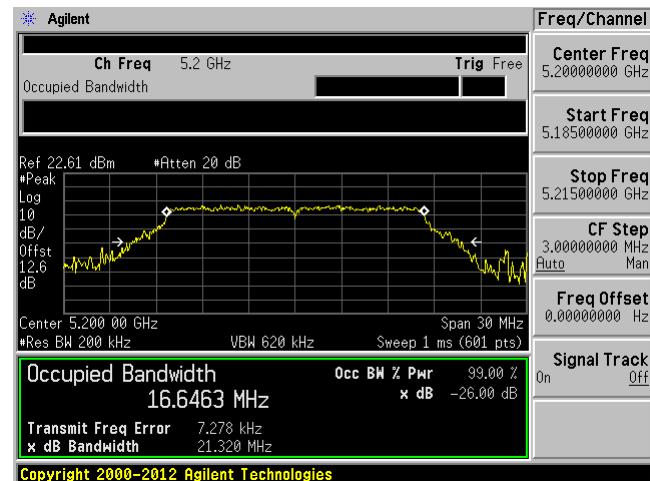
| Channel | Frequency (MHz) | 99% OBW (kHz) | | 6 dB OBW (kHz) | | 6 dB OBW Limit (kHz) |
|-----------------|--------------------|---------------|---------|----------------|---------|-------------------------|
| | | Chain 1 | Chain 2 | Chain 1 | Chain 2 | |
| 802.11 a mode | | | | | | |
| 149 | 5745 | 16495.3 | 16515.7 | 16500 | 16387 | 500 |
| 157 | 5785 | 16481.8 | 16515.1 | 16452 | 16406 | 500 |
| 165 | 5825 | 16467.2 | 16489.3 | 16391 | 16439 | 500 |
| 802.11n20 mode | | | | | | |
| 149 | 5745 | 17699.7 | 17700.8 | 17676 | 17807 | 500 |
| 157 | 5785 | 17698.1 | 17665.1 | 17619 | 17656 | 500 |
| 165 | 5825 | 17678.9 | 17679.8 | 17634 | 17625 | 500 |
| 802.11n40 mode | | | | | | |
| 151 | 5755 | 36188.7 | 36167.4 | 36329 | 36229 | 500 |
| 159 | 5795 | 36157.9 | 36163 | 36369 | 36424 | 500 |
| 802.11ac20 mode | | | | | | |
| 149 | 5745 | 17681.5 | 17668.5 | 17618 | 17647 | 500 |
| 157 | 5785 | 17657.2 | 17691.5 | 17596 | 17639 | 500 |
| 165 | 5825 | 17671.5 | 17661.9 | 17662 | 17634 | 500 |
| 802.11ac40 mode | | | | | | |
| 151 | 5755 | 36184.2 | 36171.5 | 36115 | 36426 | 500 |
| 159 | 5795 | 36168.4 | 36155.3 | 36371 | 36435 | 500 |
| 802.11ac80 mode | | | | | | |
| 155 | 5775 | 75386 | 75730.9 | 75979 | 76139 | 500 |

5150 – 5250 MHz

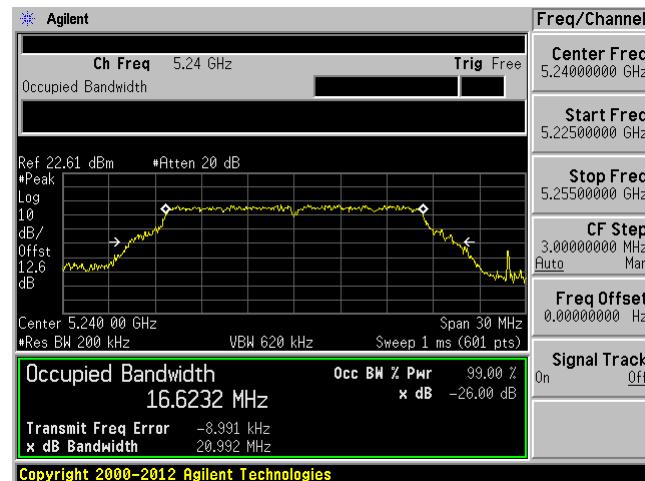
802.11a mode chain 1

5180 MHz

5200 MHz



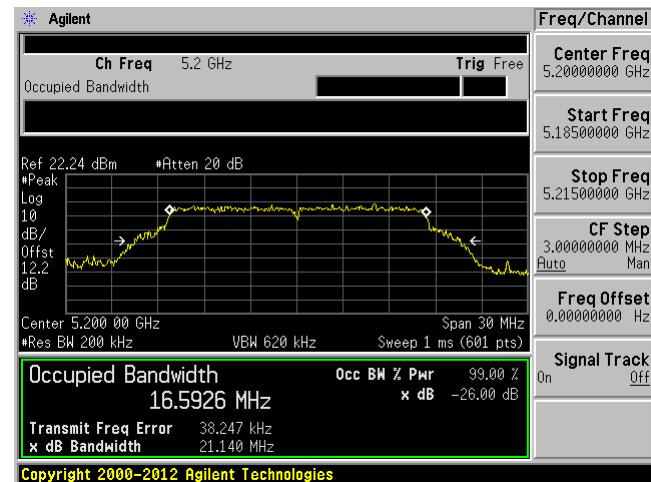
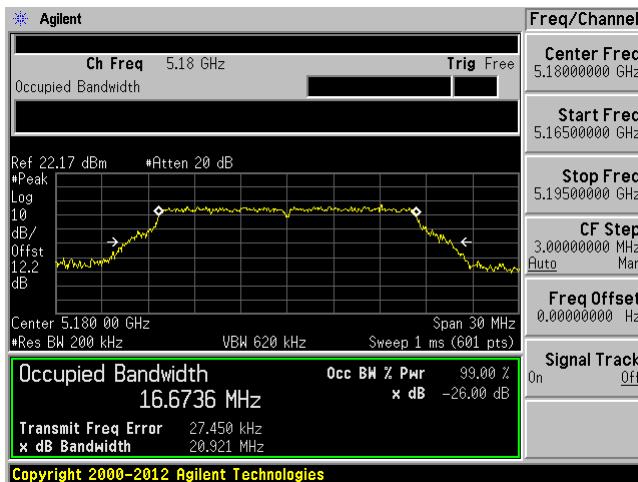
5240 MHz



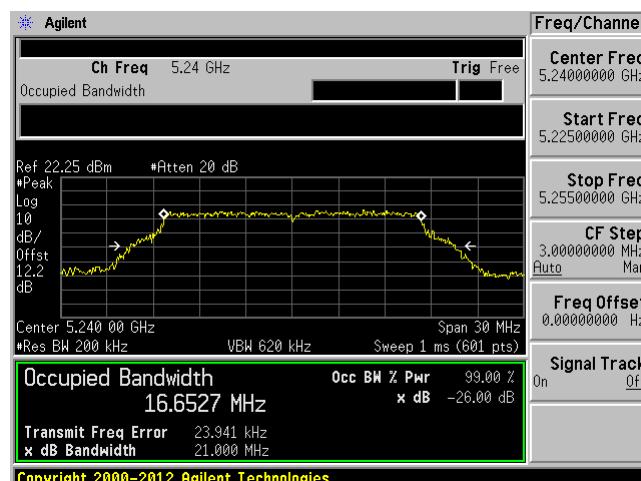
802.11a mode chain 2

5180 MHz

5200 MHz



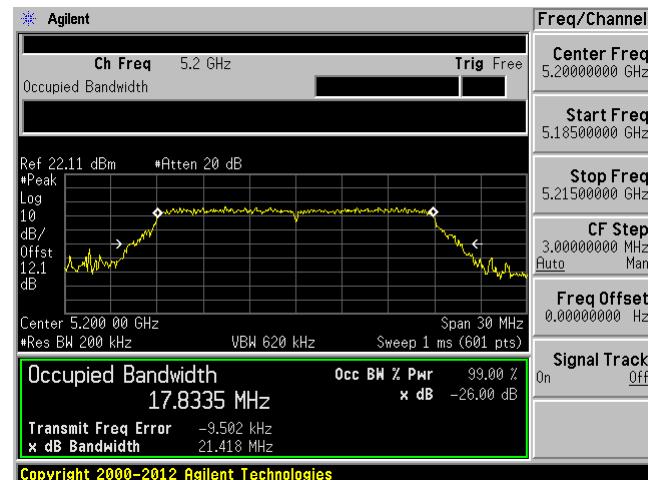
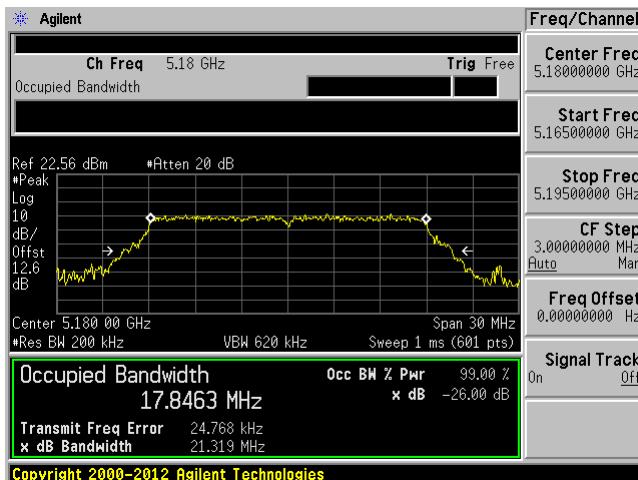
5240 MHz



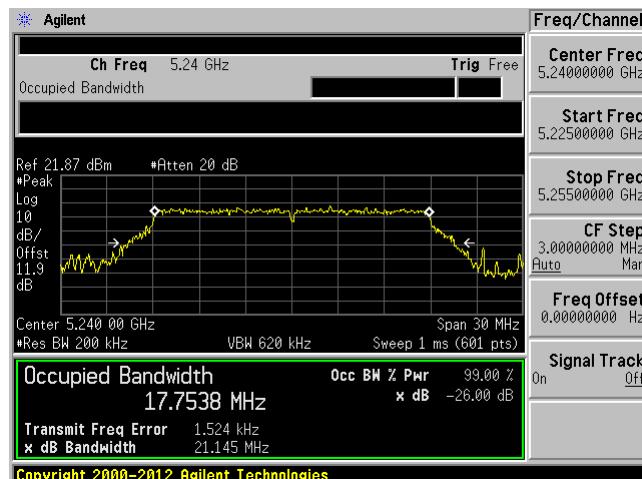
802.11n20 mode chain 1

5180 MHz

5200 MHz



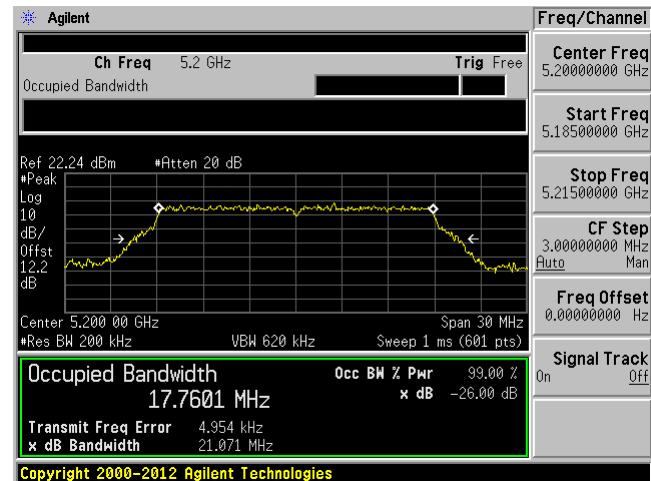
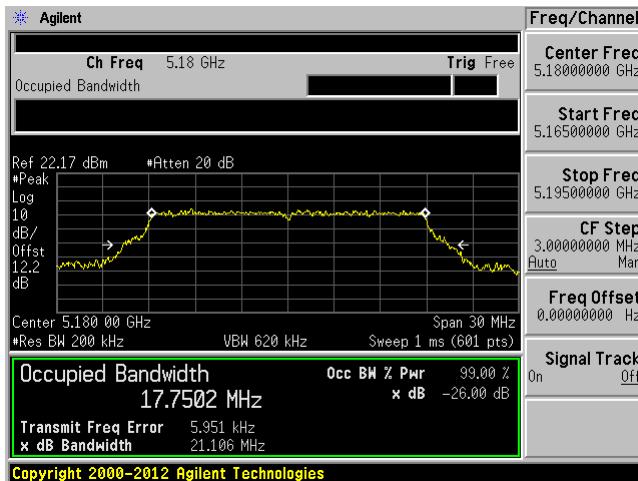
5240 MHz



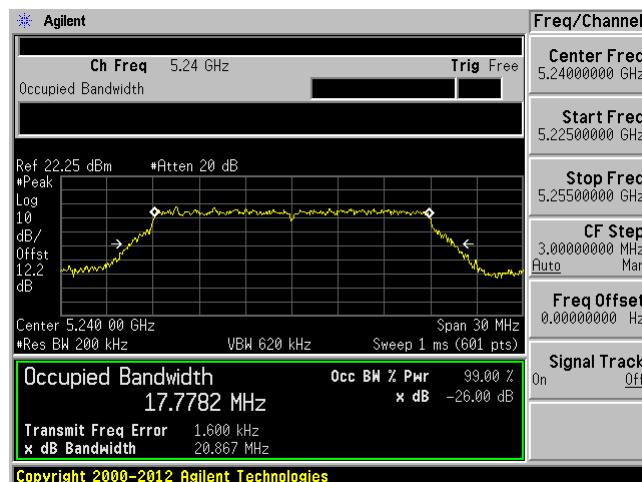
802.11n20 mode chain 2

5180 MHz

5200 MHz



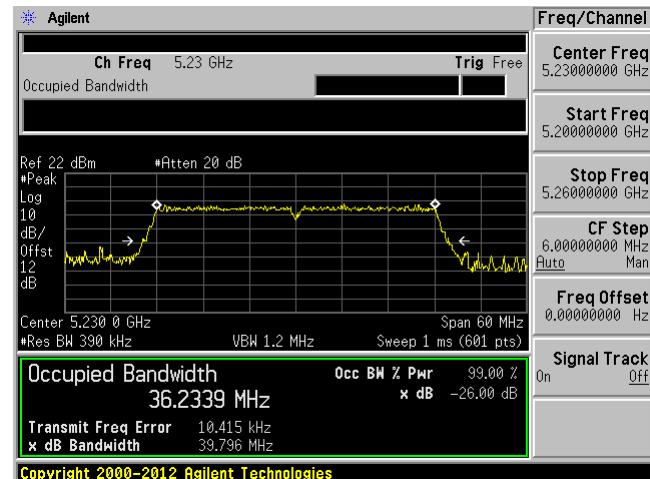
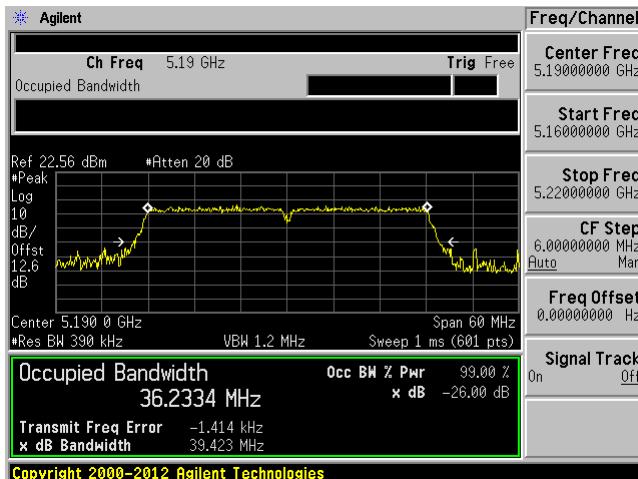
5240 MHz



802.11n40 mode chain 1

5190 MHz

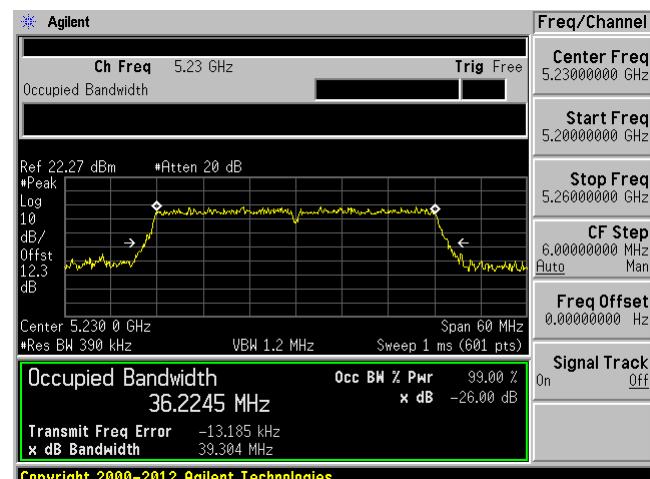
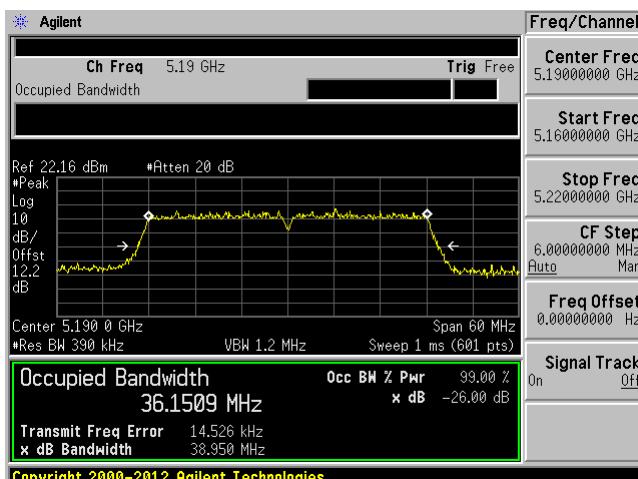
5230 MHz



802.11n40 mode chain 2

5190 MHz

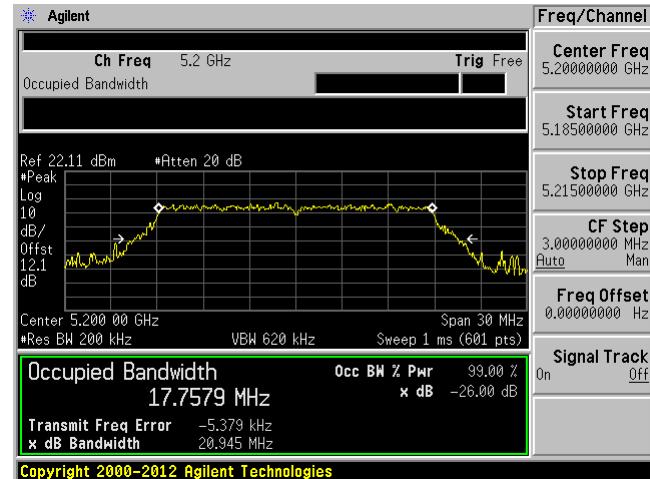
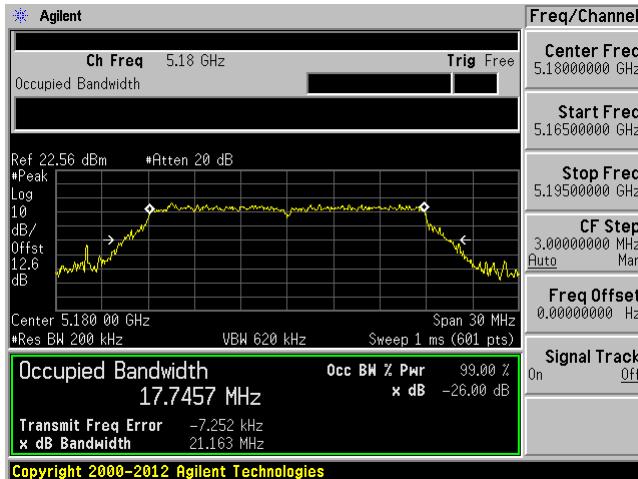
5230 MHz



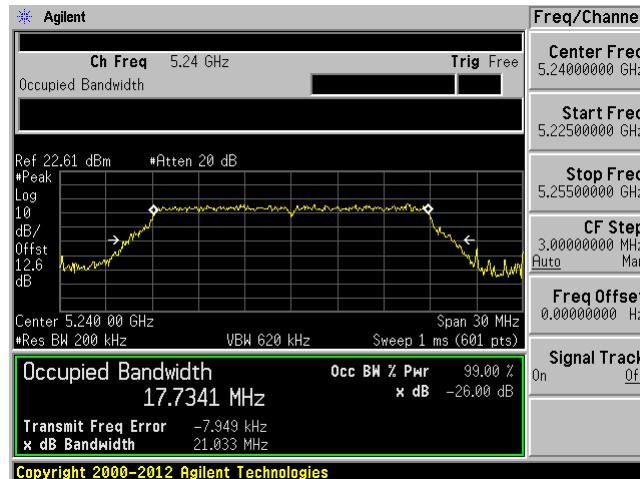
802.11ac20 mode chain 1

5180 MHz

5200 MHz



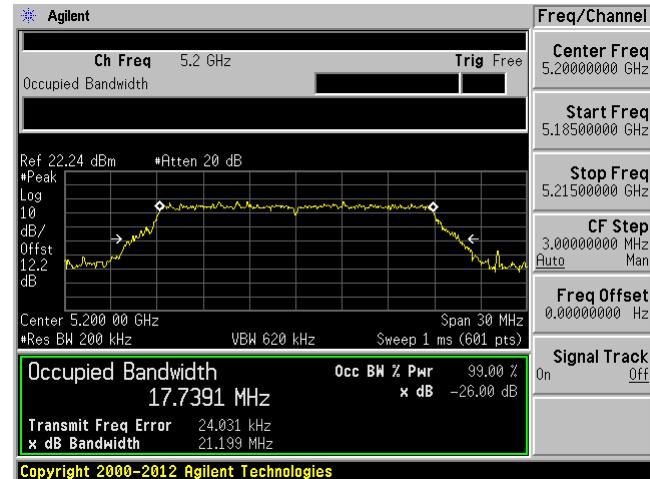
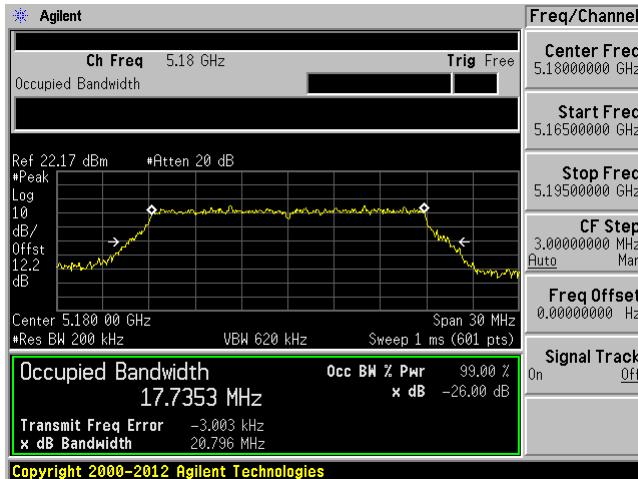
5240 MHz



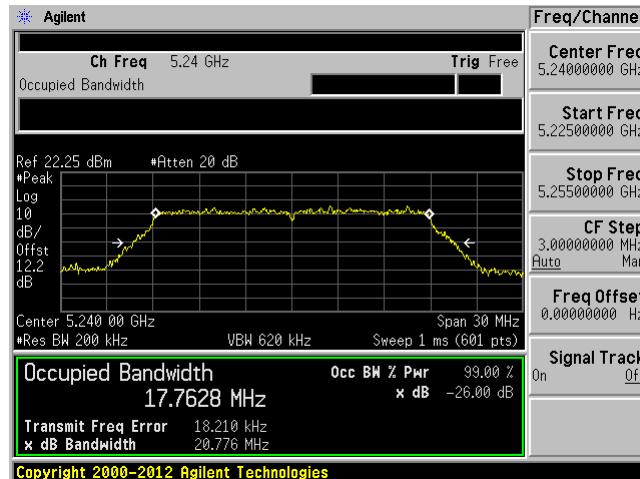
802.11ac20 mode chain 2

5180 MHz

5200 MHz



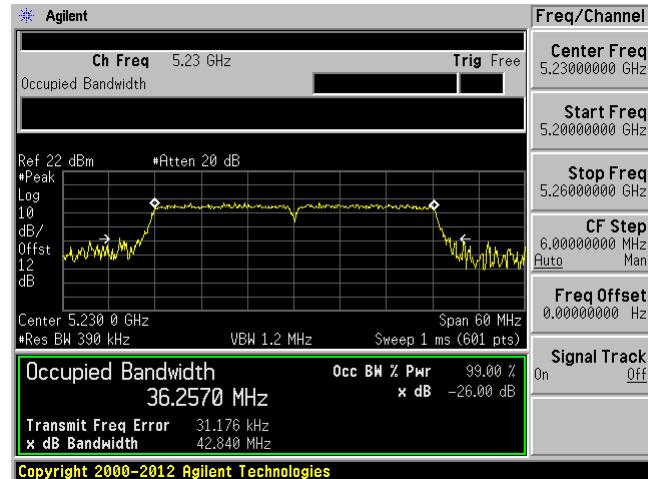
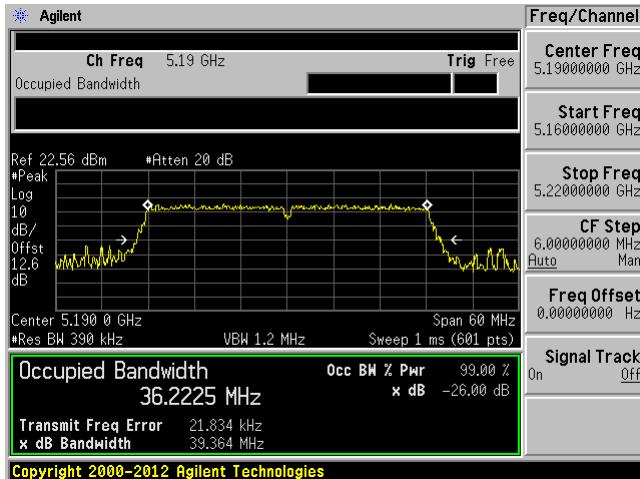
5240 MHz



802.11ac40 mode chain 1

5190 MHz

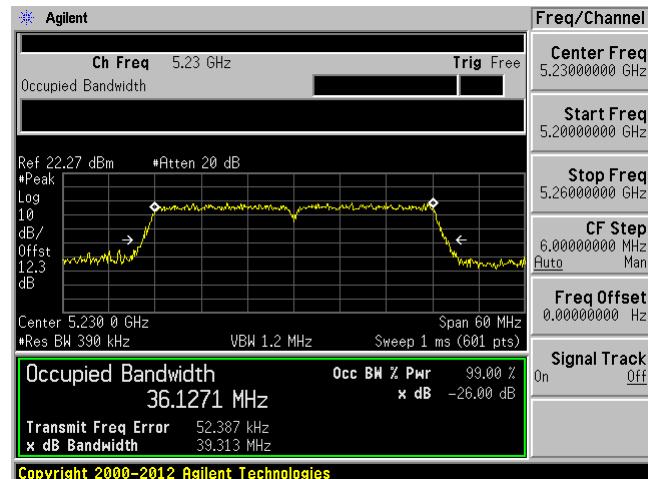
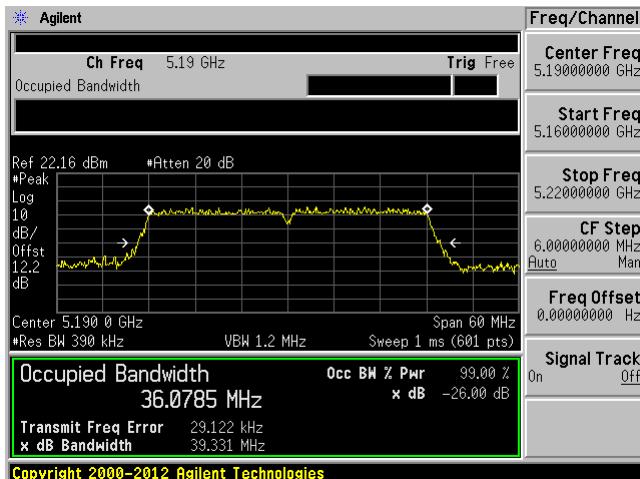
5230 MHz



802.11n40 mode chain 2

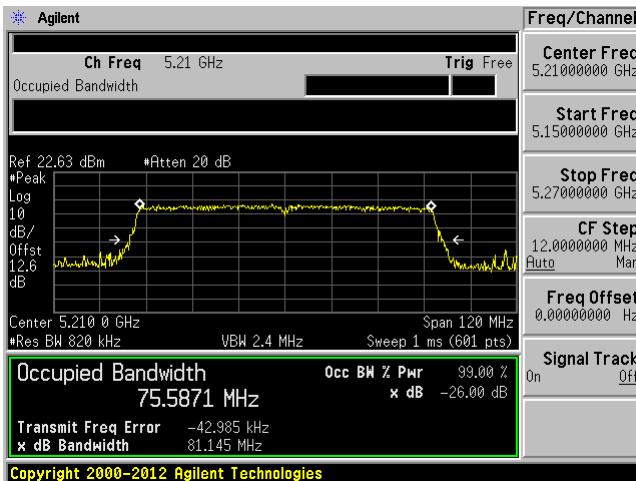
5190 MHz

5230 MHz

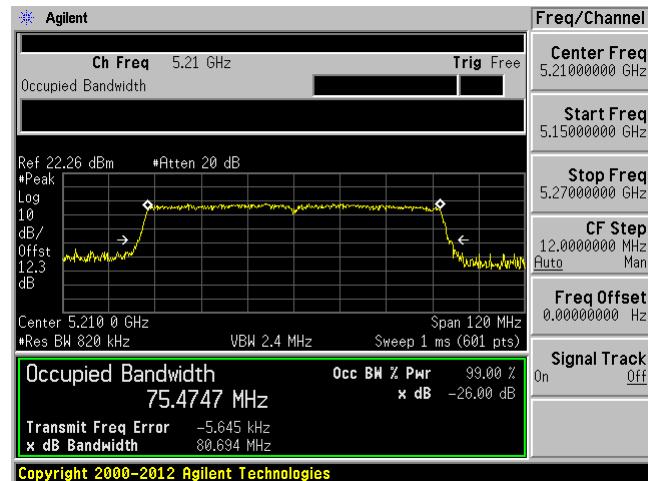


802.11ac80 mode

5210 MHz chain 1



5210 MHz chain 2

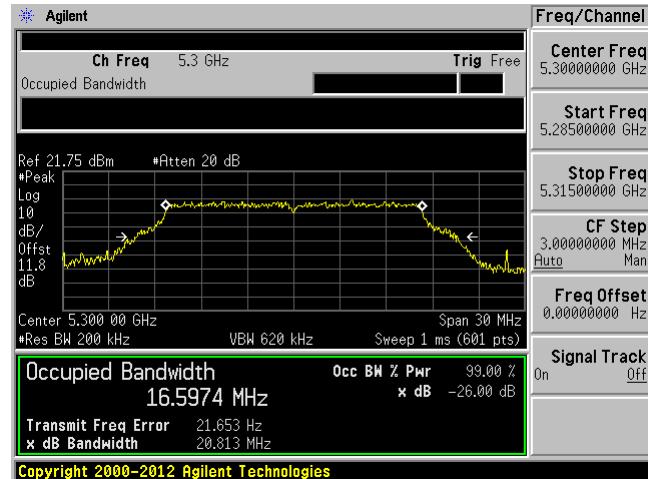
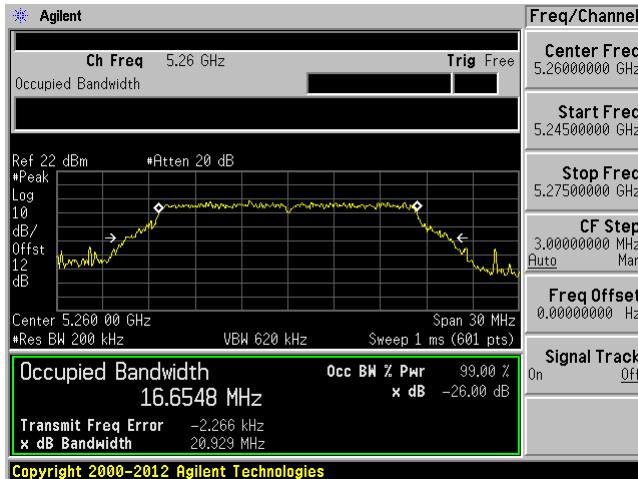


5250 – 5350 MHz

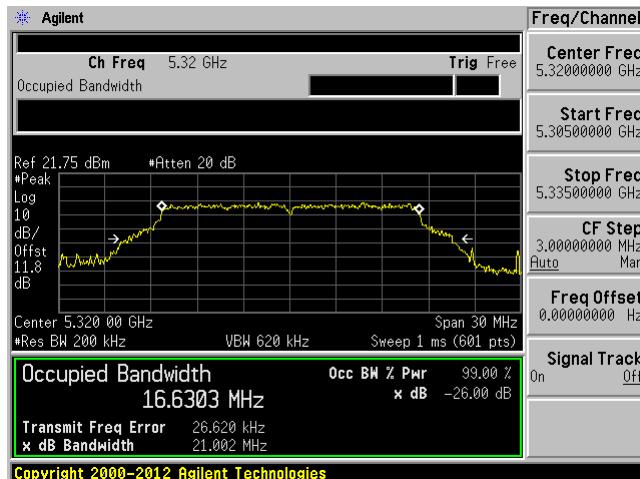
802.11a mode chain 1

5260 MHz

5300 MHz



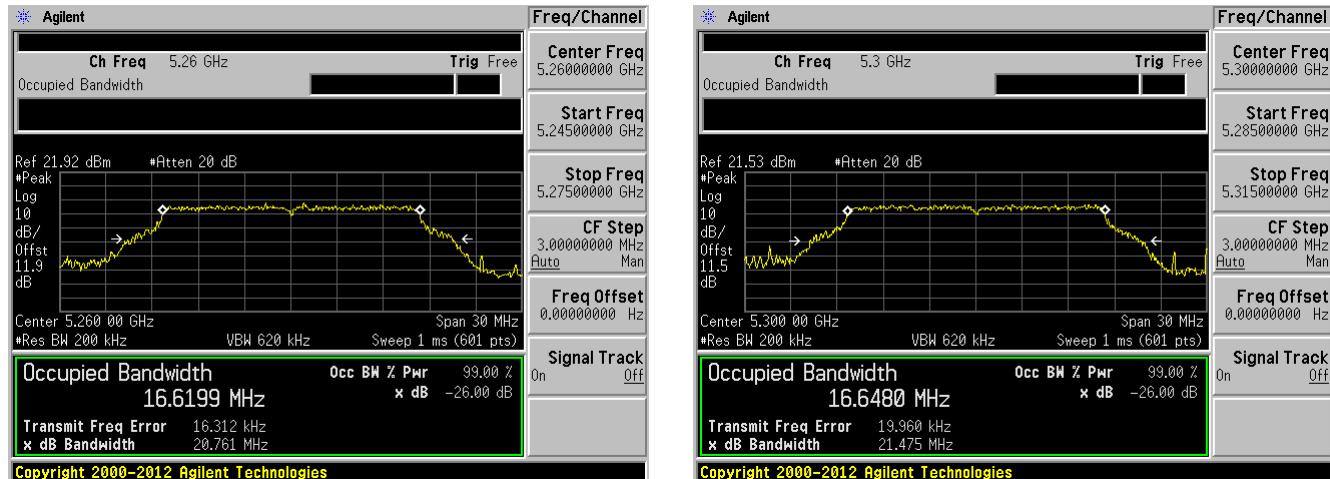
5320 MHz



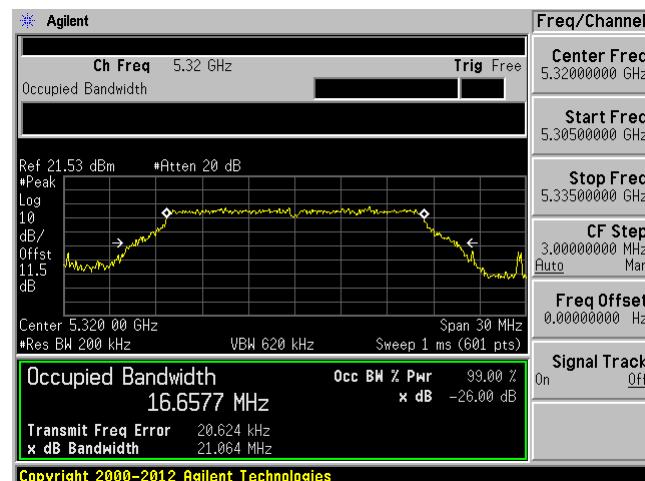
802.11a mode chain 2

5260 MHz

5300 MHz



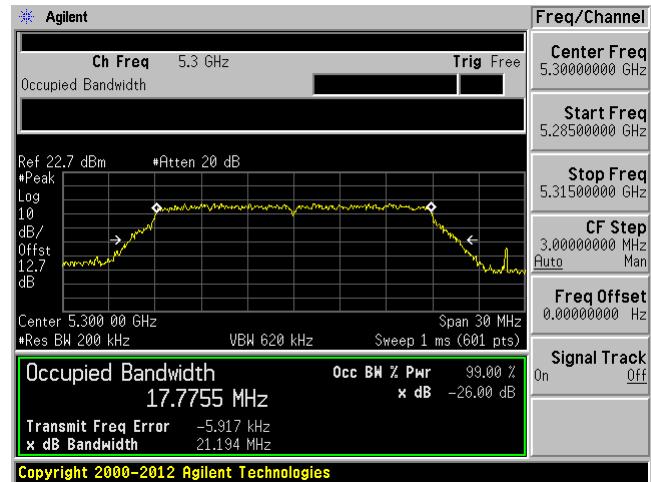
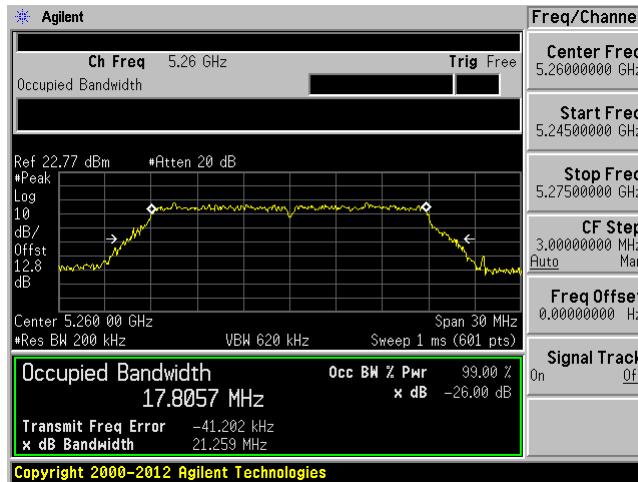
5320 MHz



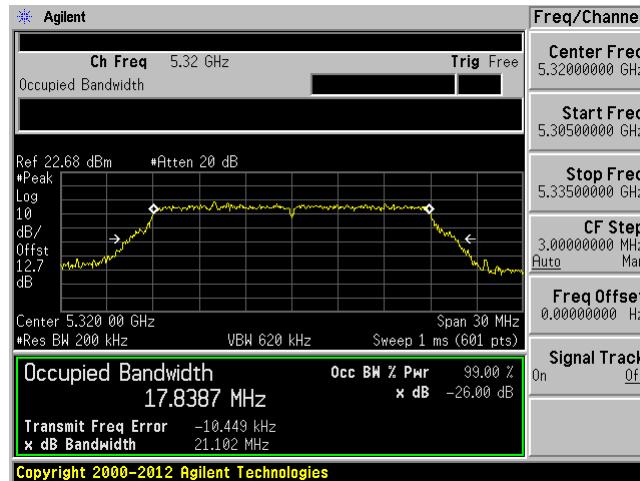
802.11n20 mode chain 1

5260 MHz

5300 MHz



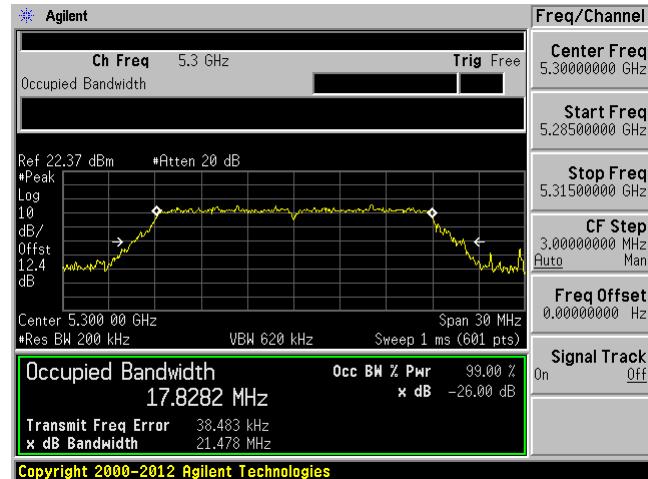
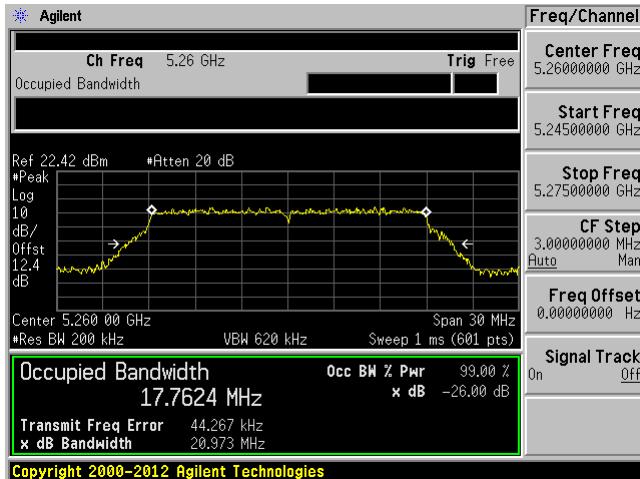
5320 MHz



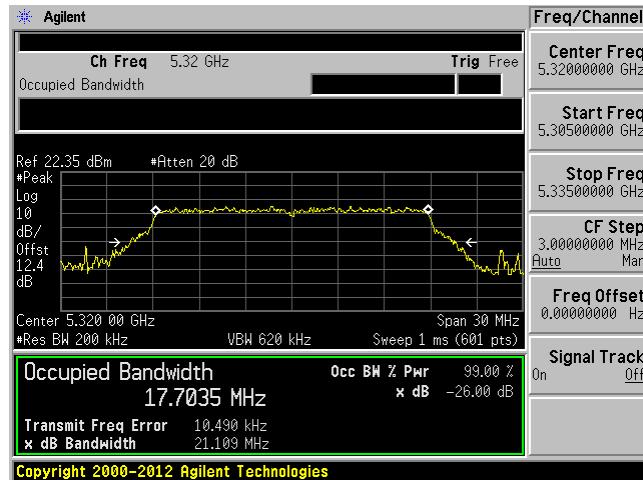
802.11n20 mode chain 2

5260 MHz

5300 MHz



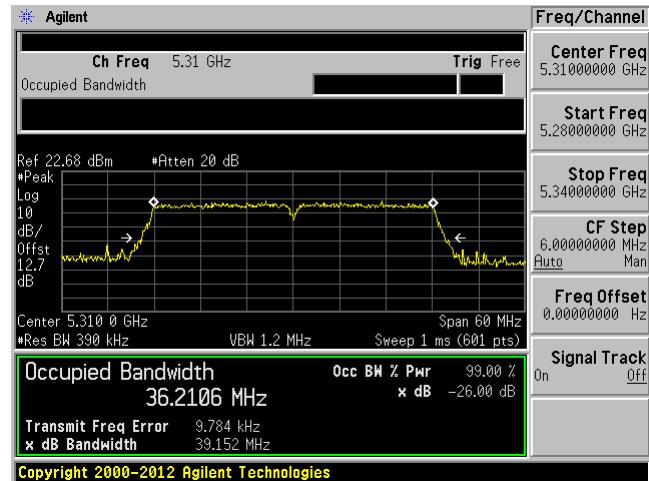
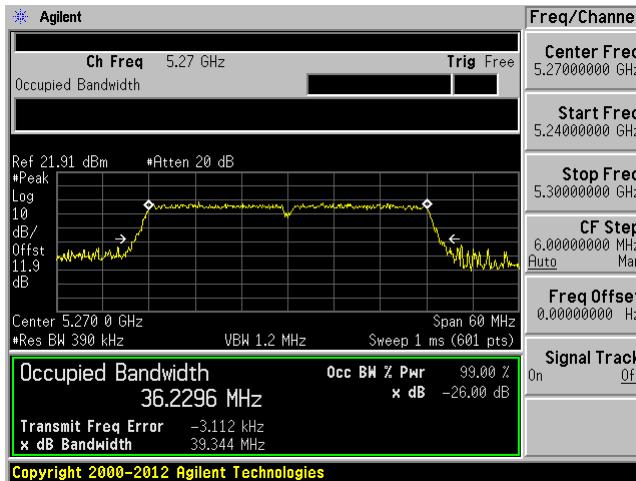
5320 MHz



802.11n40 mode chain 1

5270 MHz

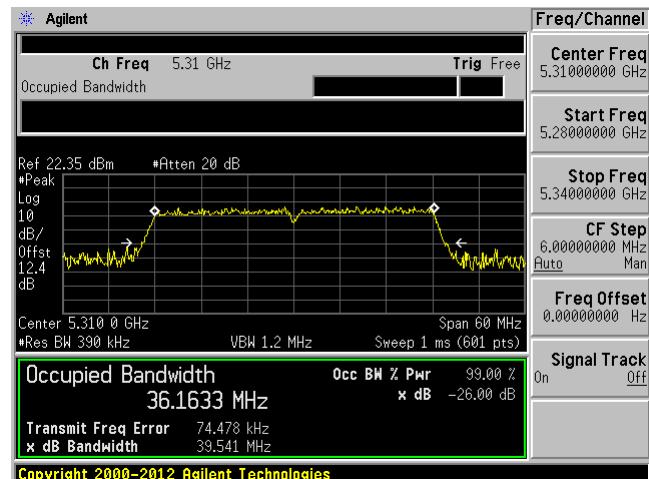
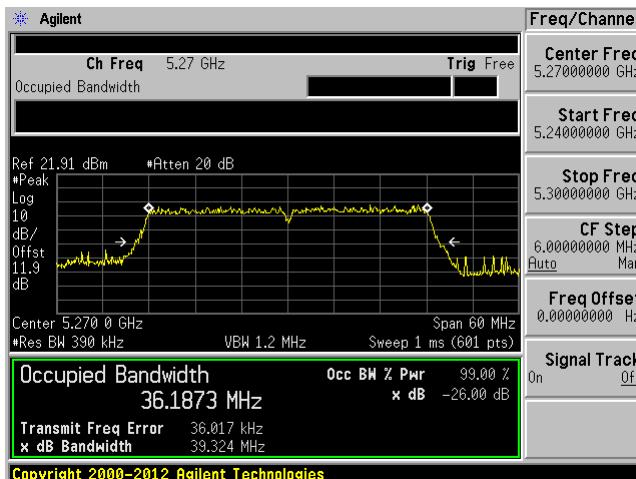
5310 MHz



802.11n40 mode chain 2

5270 MHz

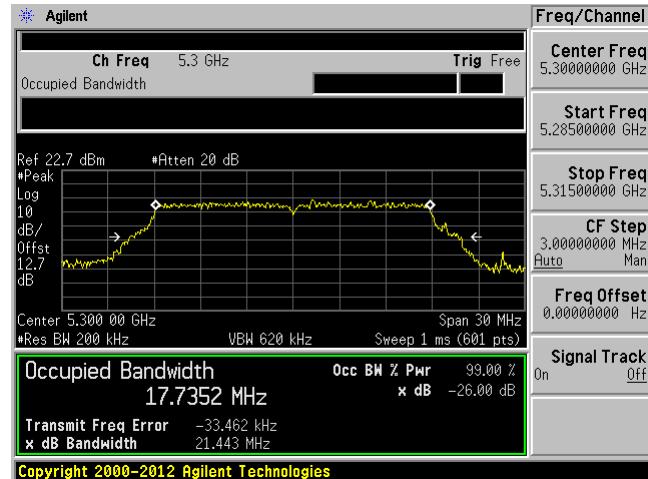
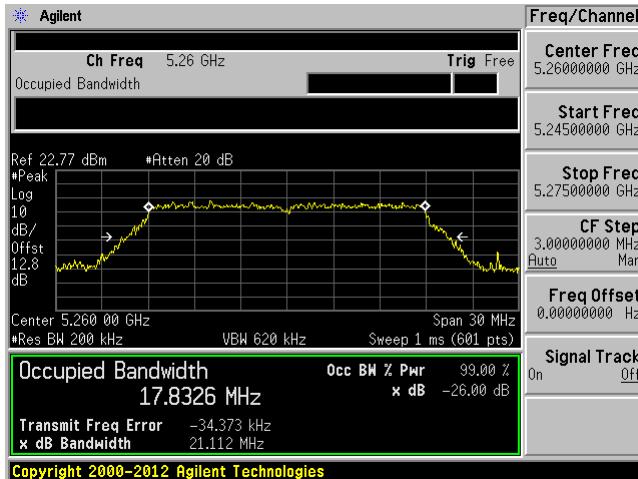
5310 MHz



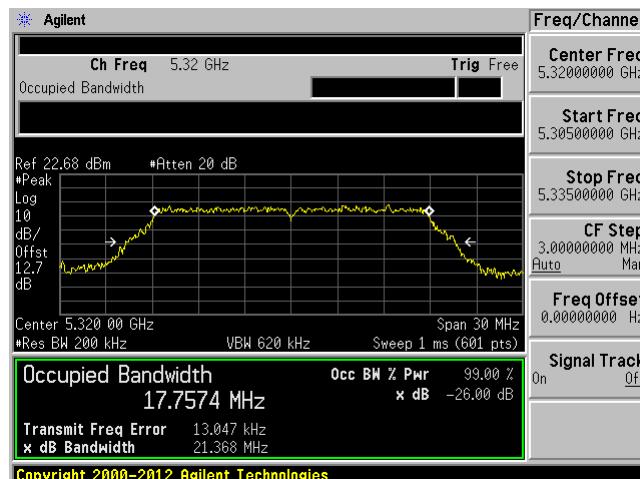
802.11ac20 mode chain 1

5260 MHz

5300 MHz



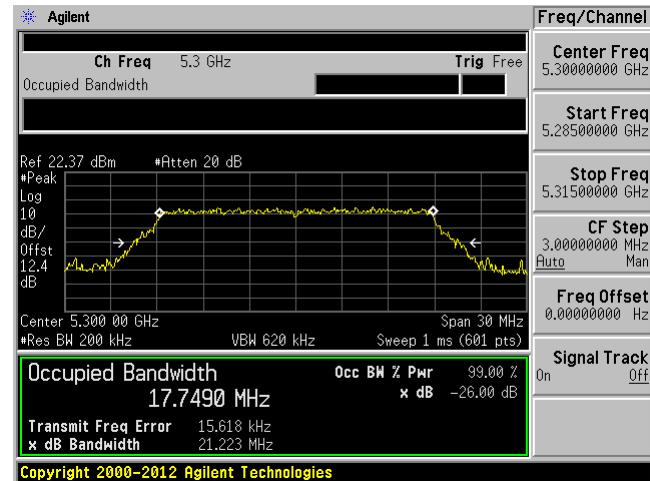
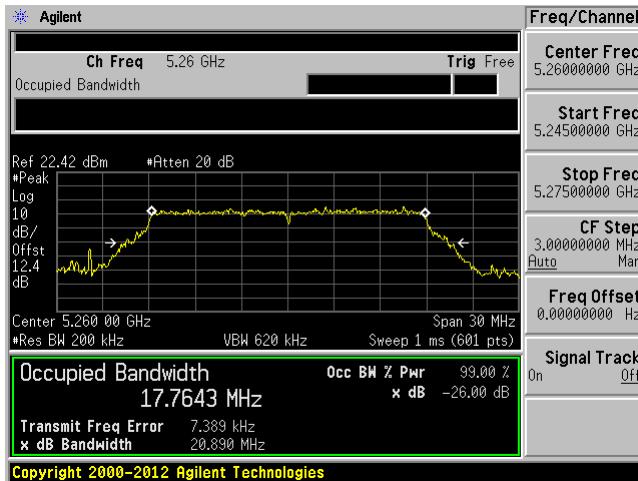
5320 MHz



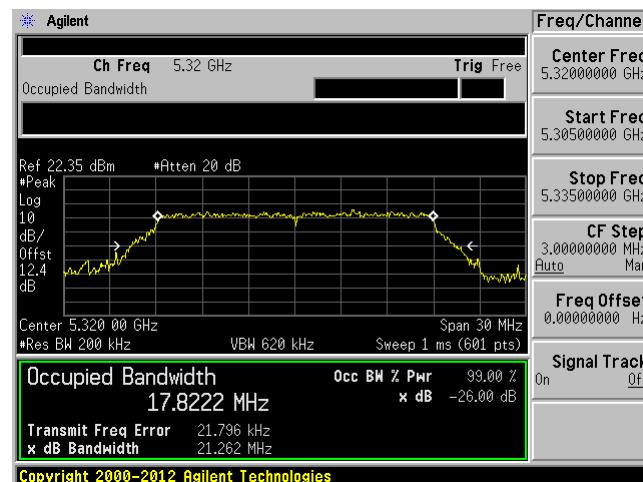
802.11ac20 mode chain 2

5260 MHz

5300 MHz



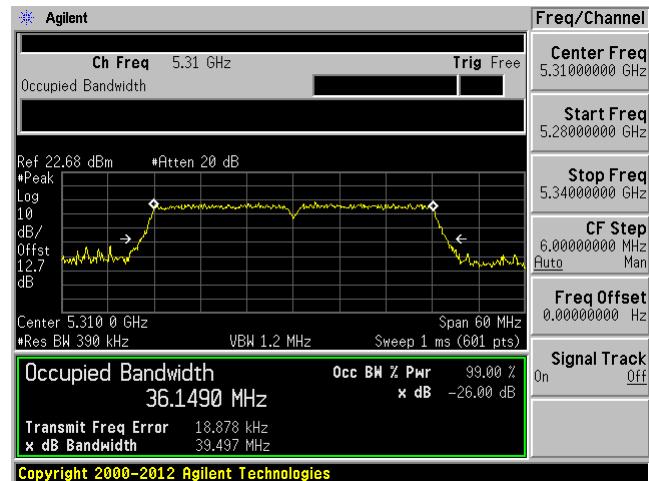
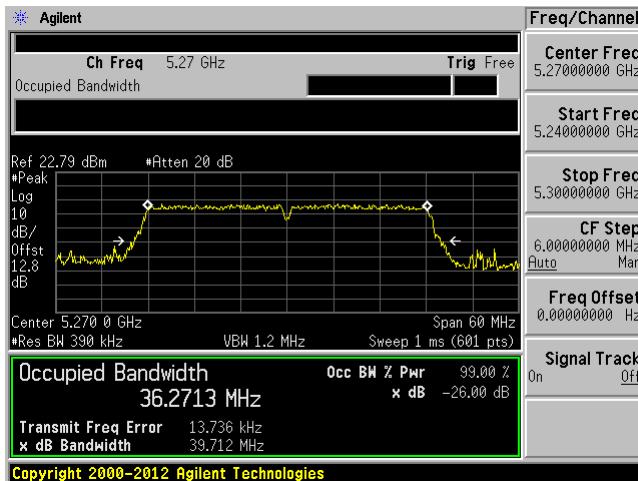
5320 MHz



802.11ac40 mode chain 1

5270 MHz

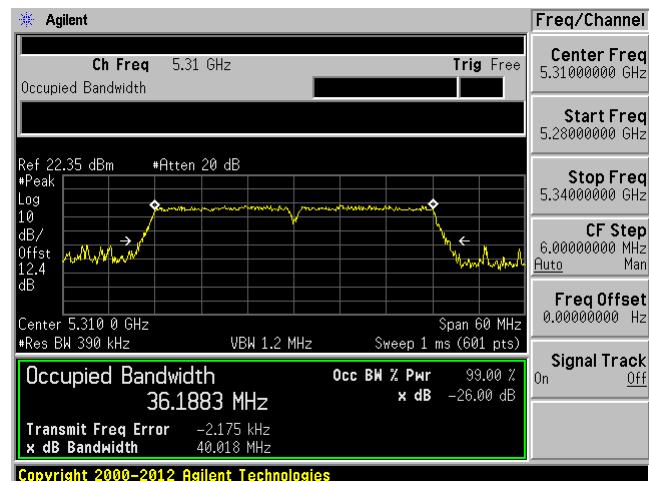
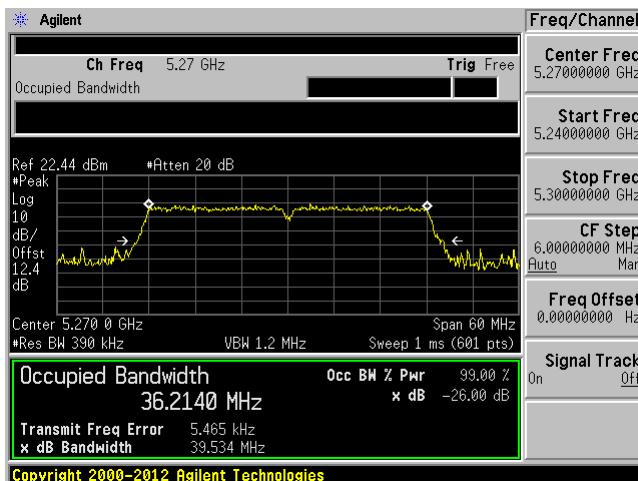
5310 MHz



802.11n40 mode chain 2

5270 MHz

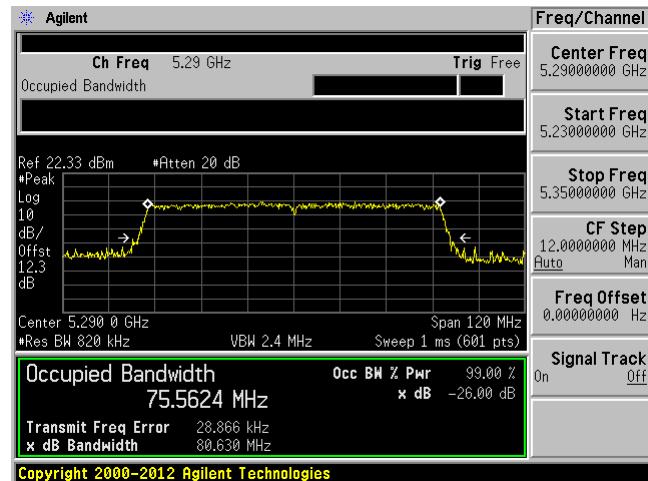
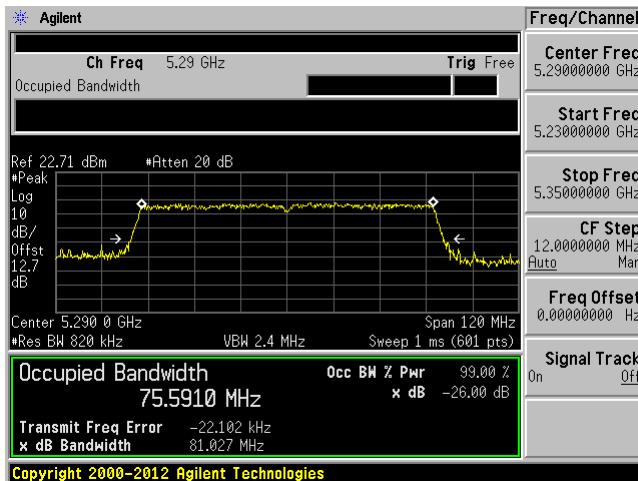
5310 MHz



802.11ac80 mode

5290 MHz chain 1

5290 MHz chain 2

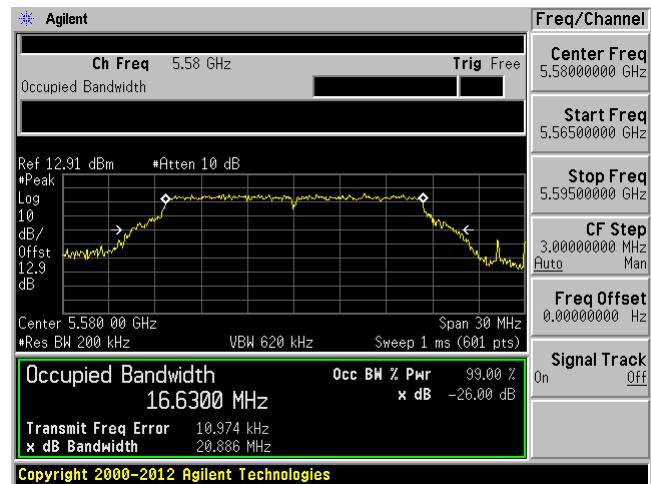
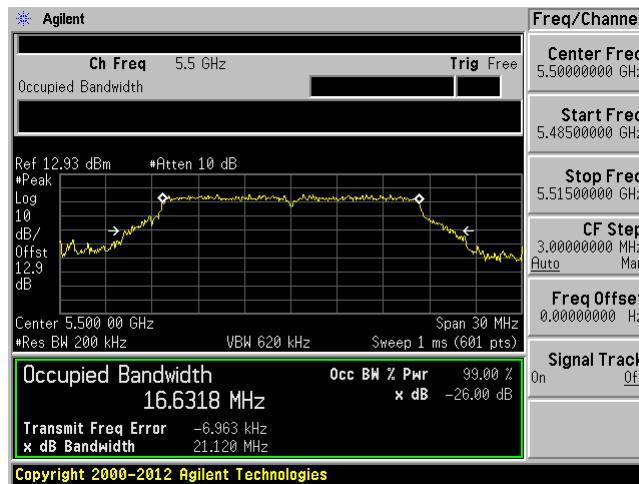


5470 – 5725 MHz

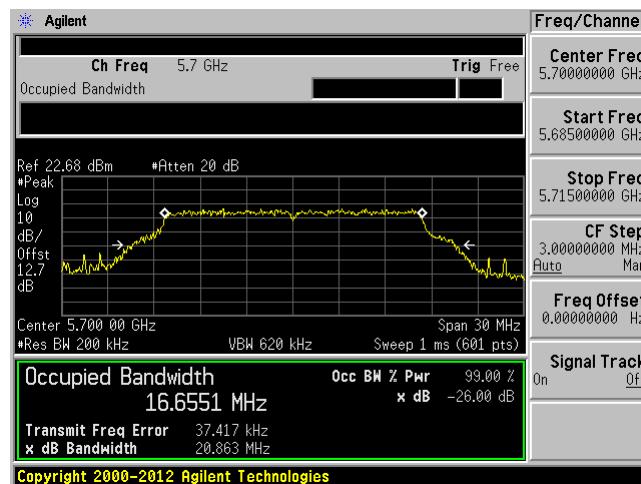
802.11a mode chain 1

5500 MHz

5580 MHz



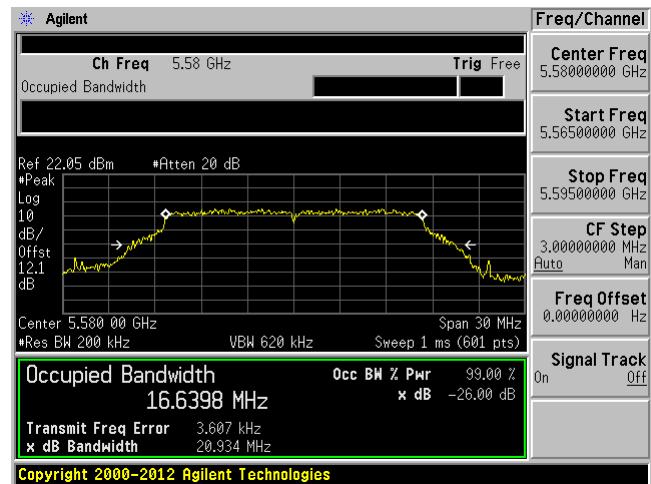
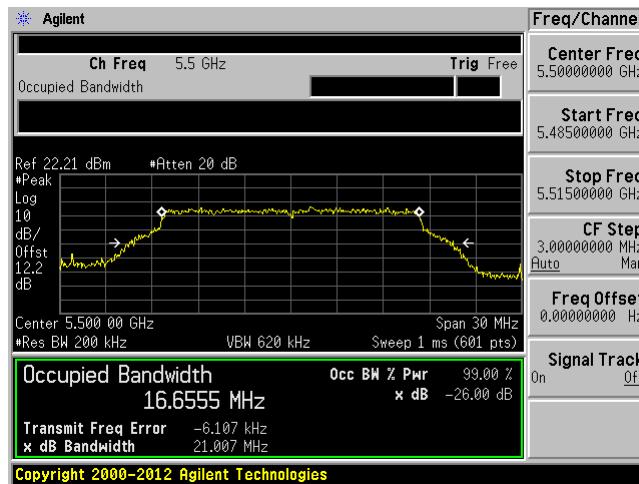
5700 MHz



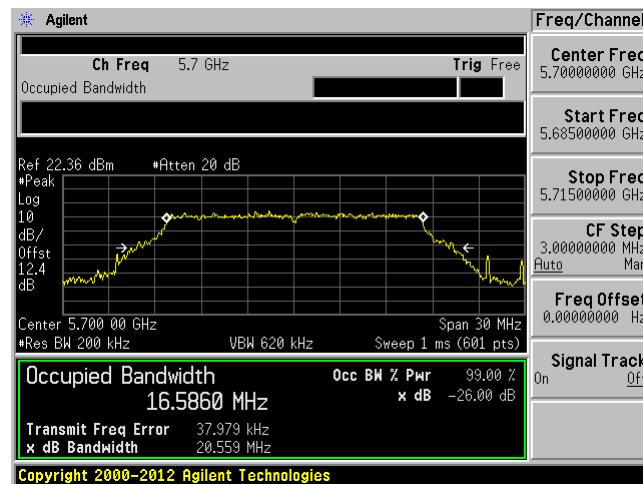
802.11a mode chain 2

5500 MHz

5580 MHz



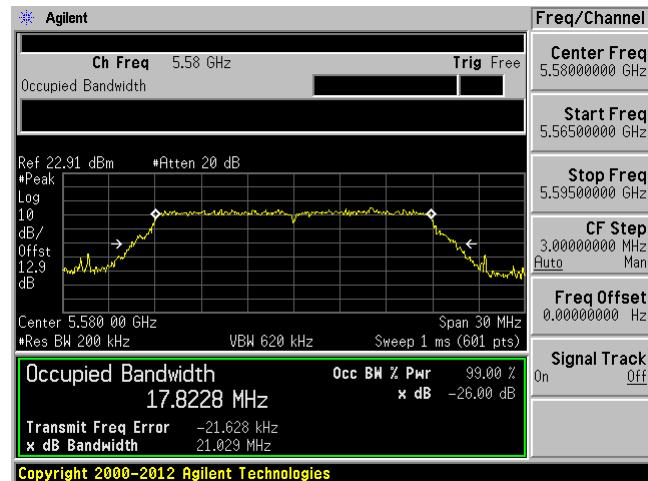
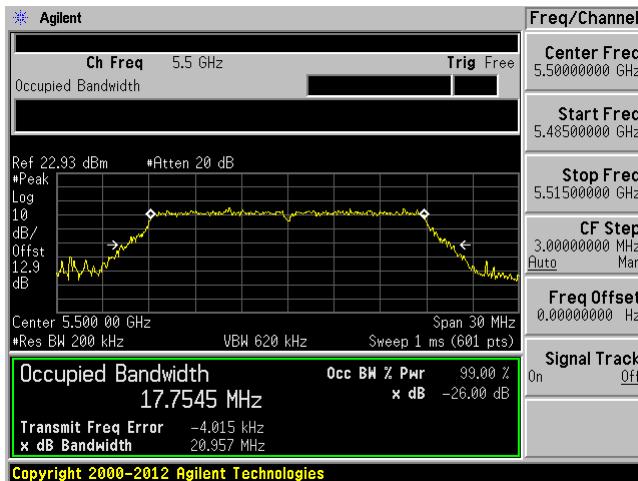
5700 MHz



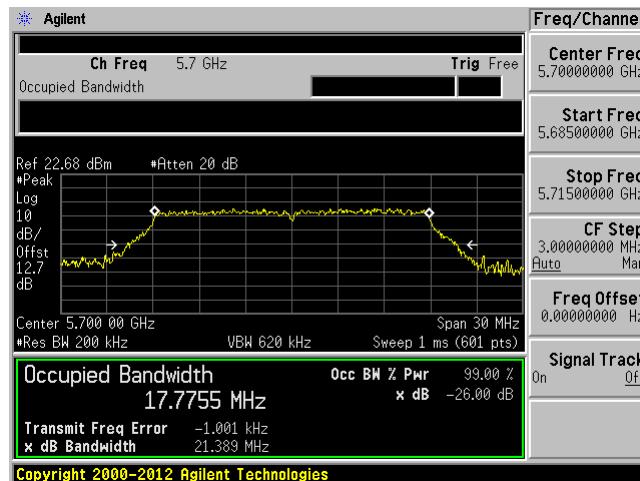
802.11n20 mode chain 1

5500 MHz

5580 MHz



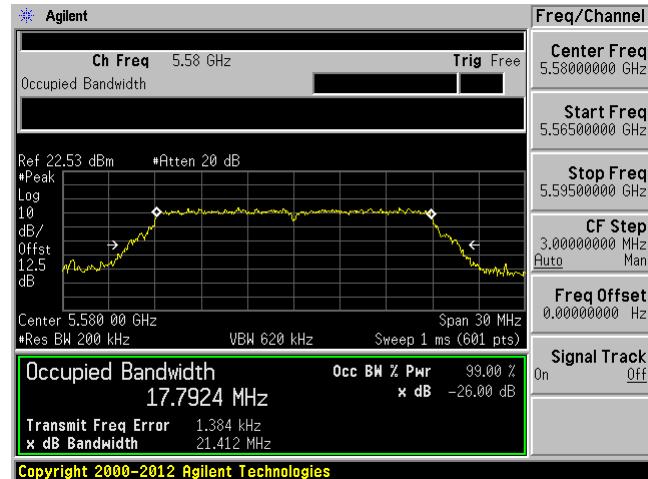
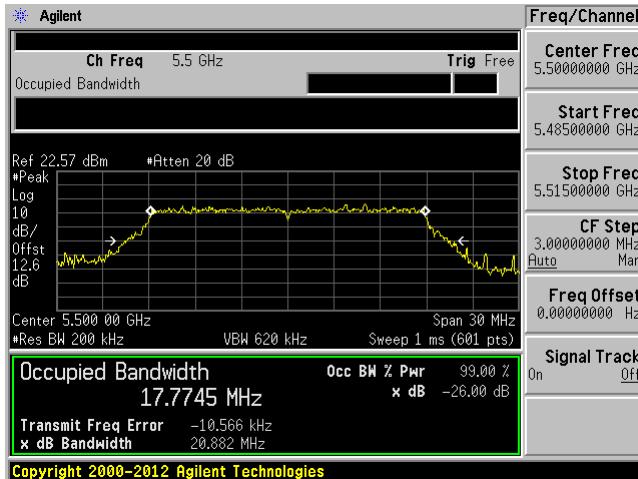
5700 MHz



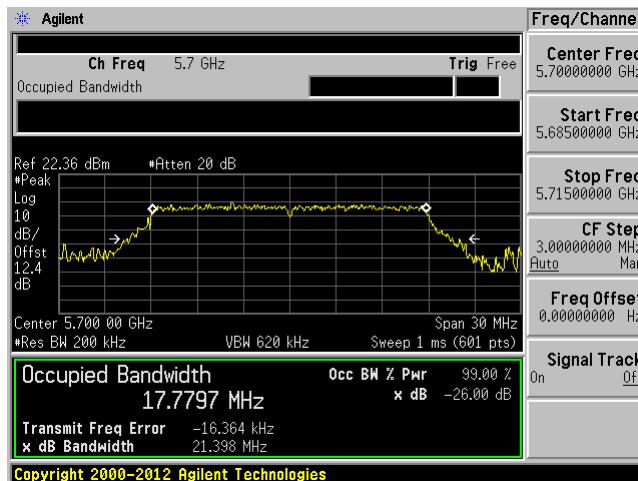
802.11n20 mode chain 2

5500 MHz

5580 MHz



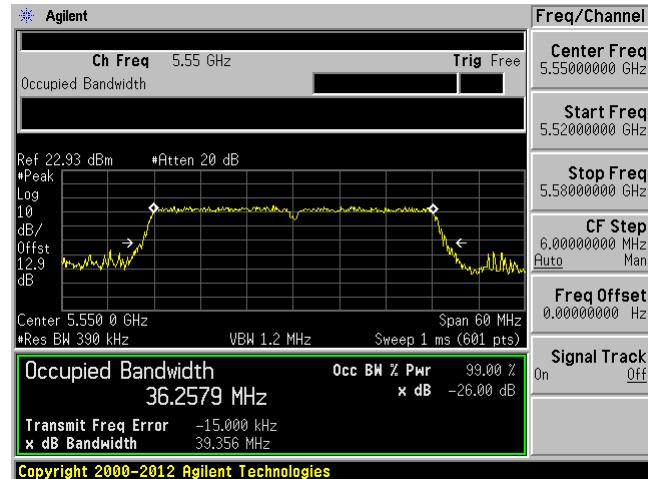
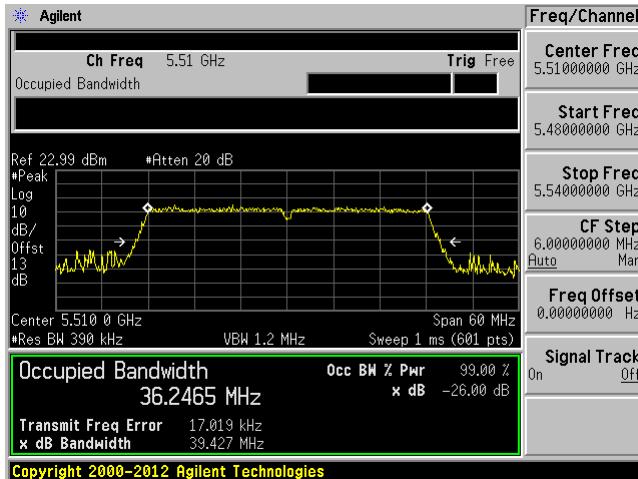
5700 MHz



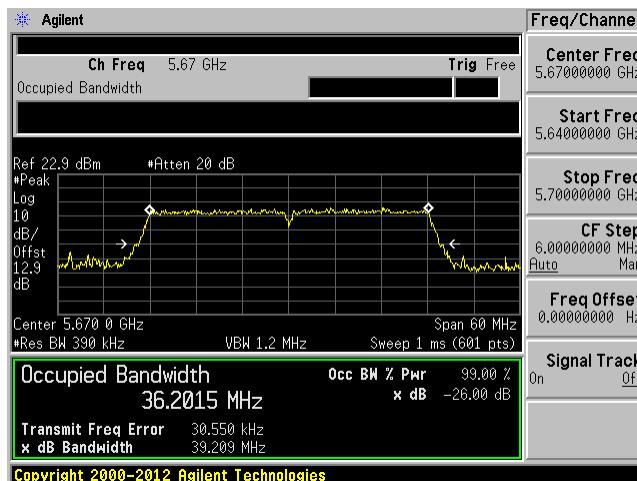
802.11n40 mode chain 1

5510 MHz

5550 MHz



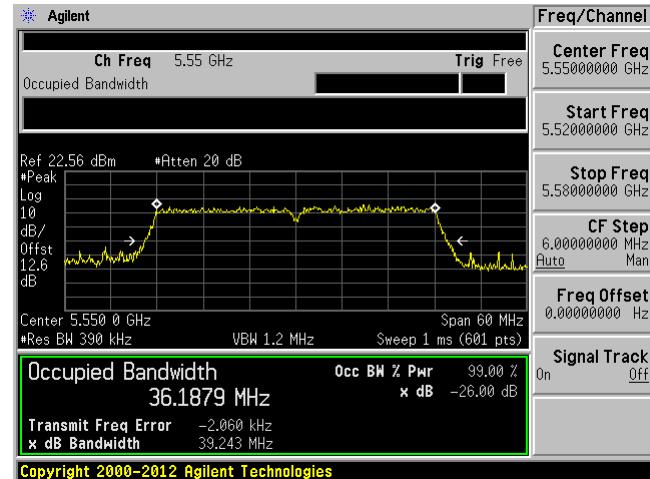
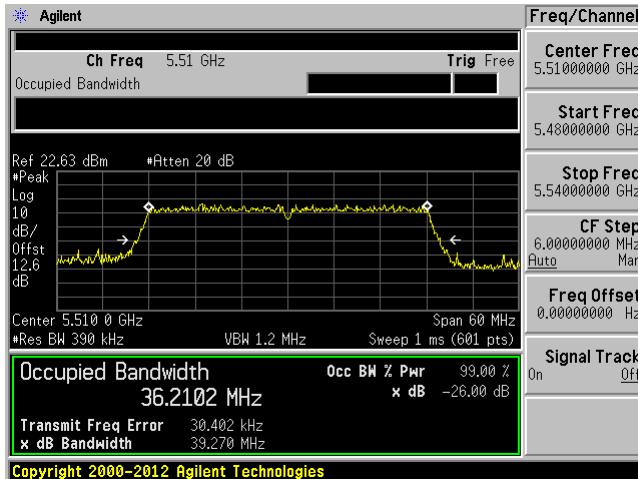
5670 MHz



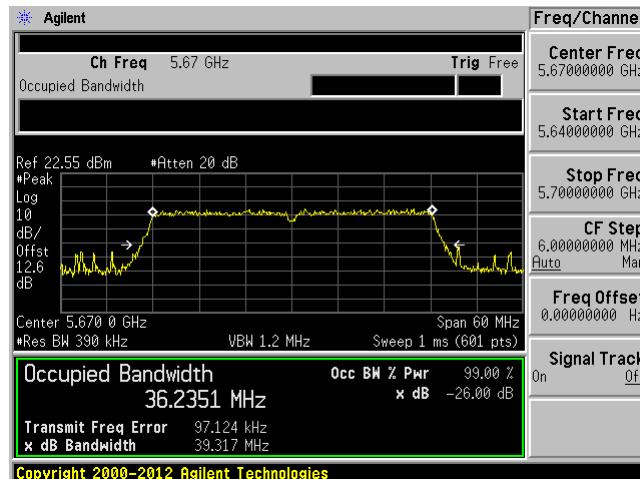
802.11n40 mode chain 2

5510 MHz

5550 MHz



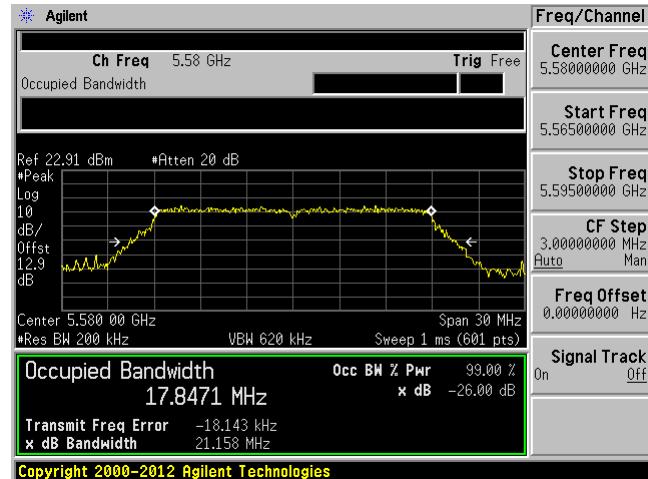
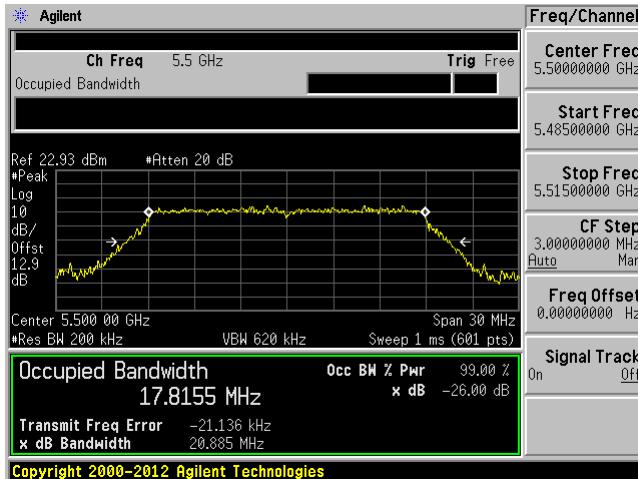
5670 MHz



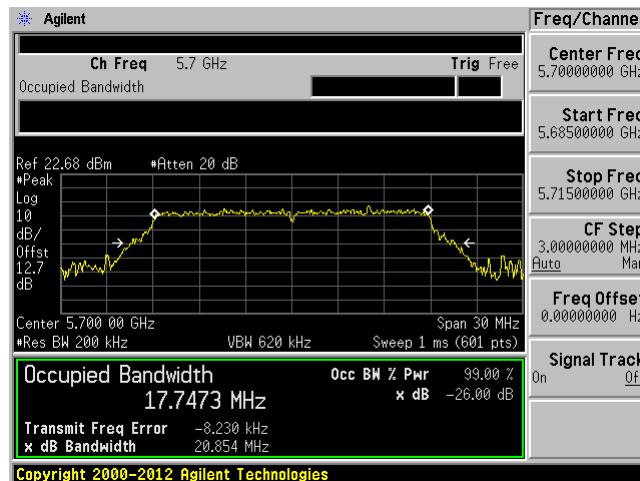
802.11ac20 mode chain 1

5500 MHz

5580 MHz



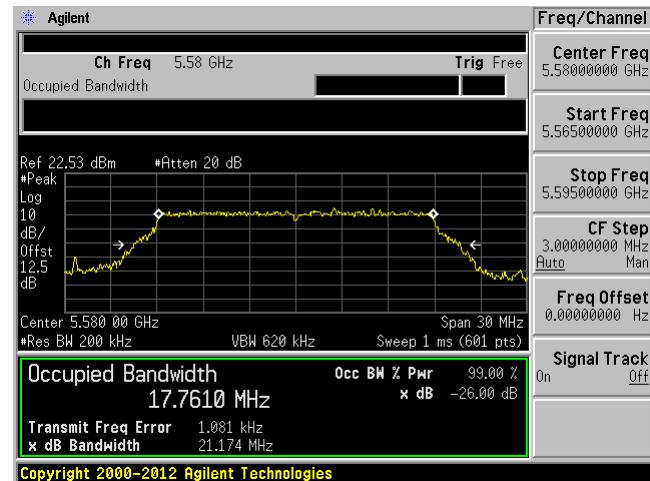
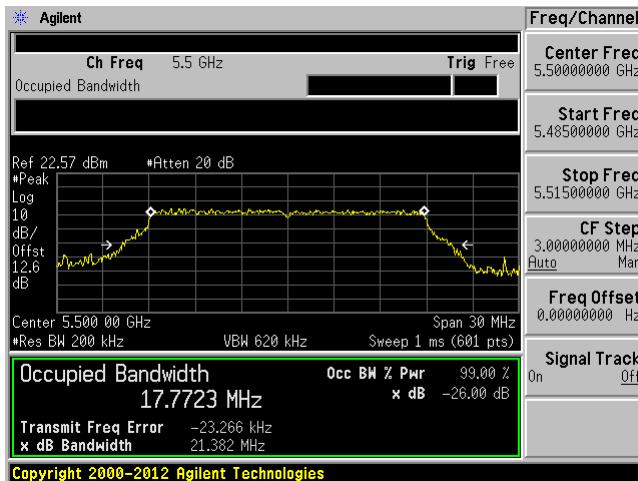
5700 MHz



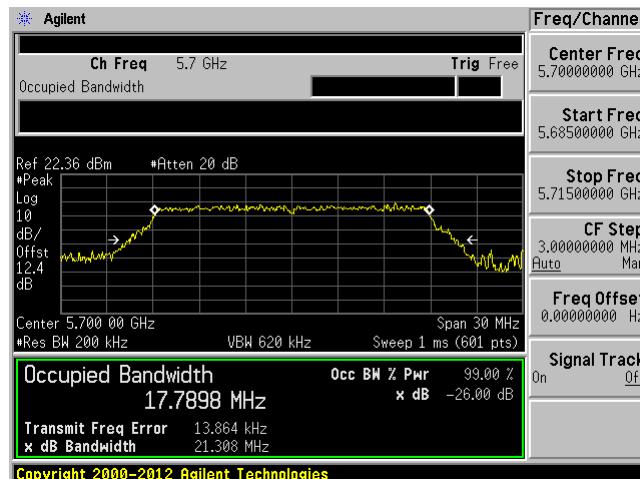
802.11ac20 mode chain 2

5500 MHz

5580 MHz



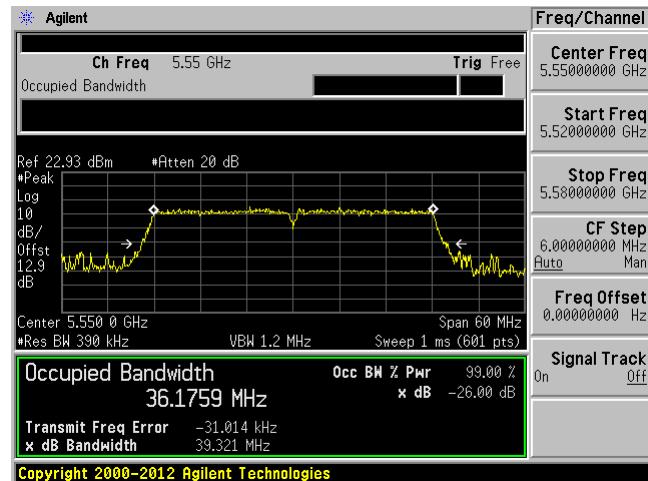
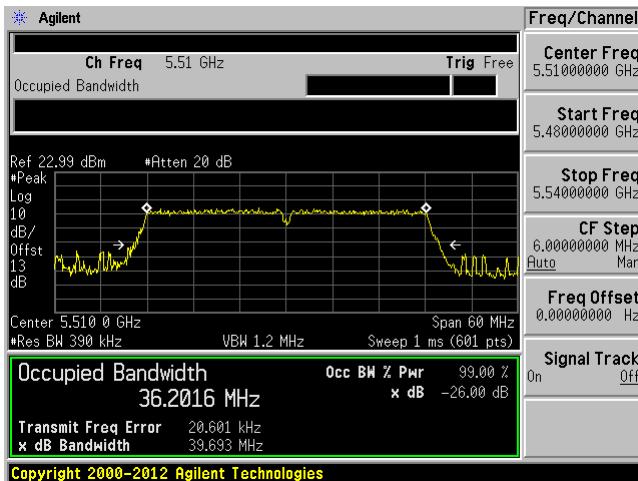
5700 MHz



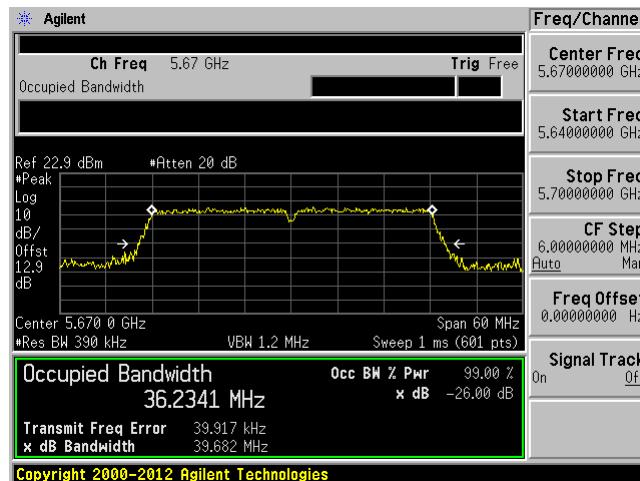
802.11ac40 mode chain 1

5510 MHz

5550 MHz



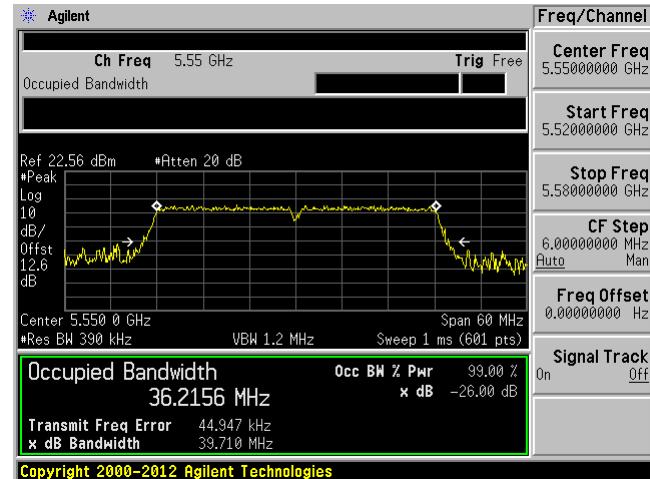
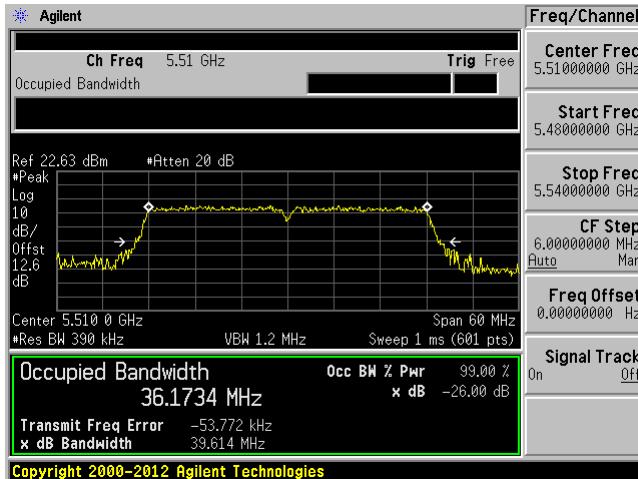
5670 MHz



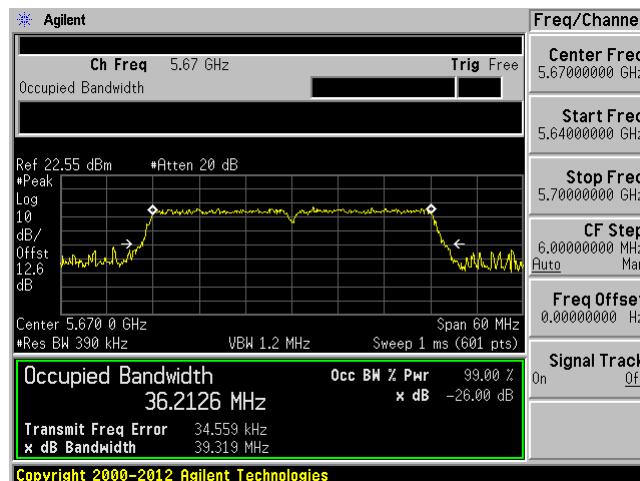
802.11ac40 mode chain 2

5510 MHz

5550 MHz



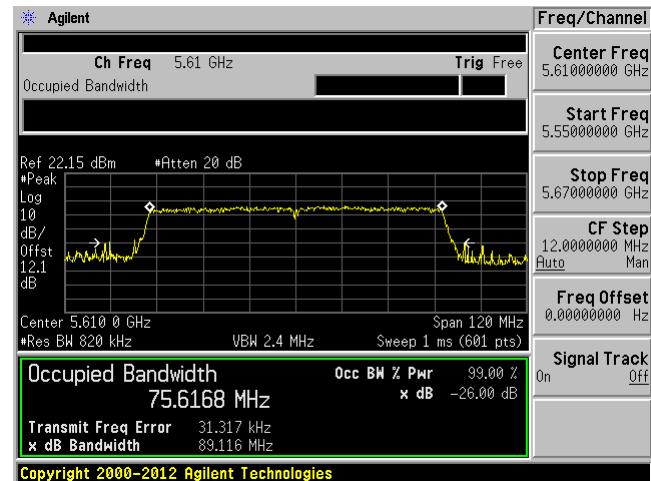
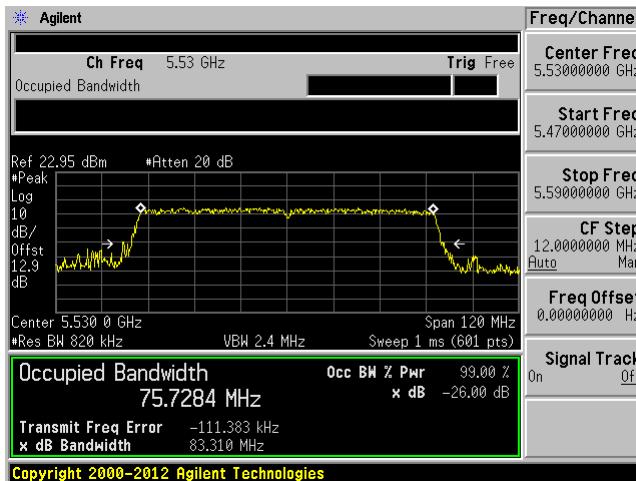
5670 MHz



802.11ac80 mode

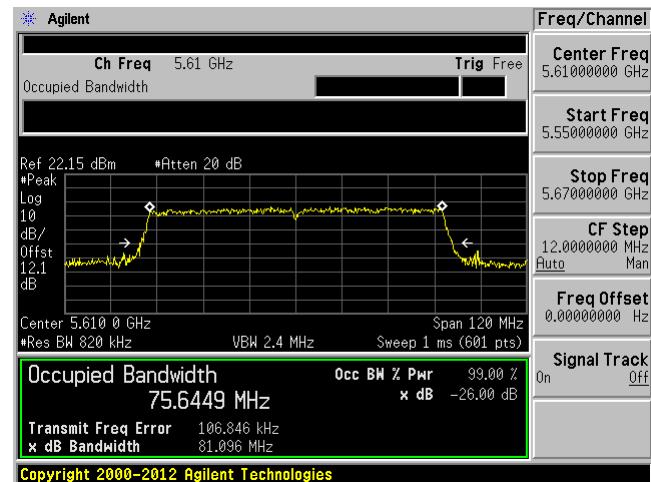
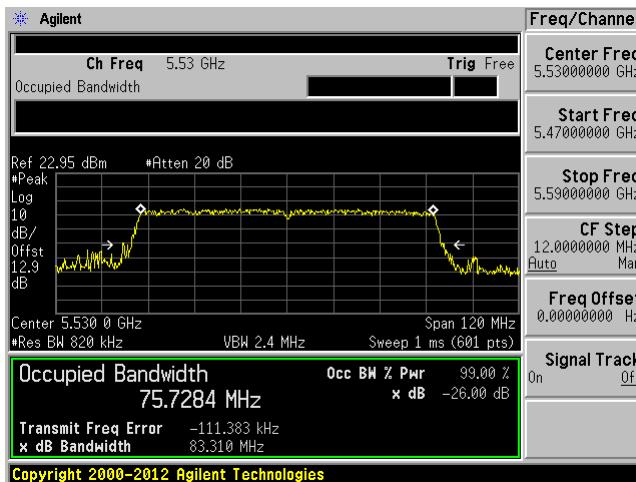
5530 MHz

5610 MHz



5530 MHz

5610 MHz

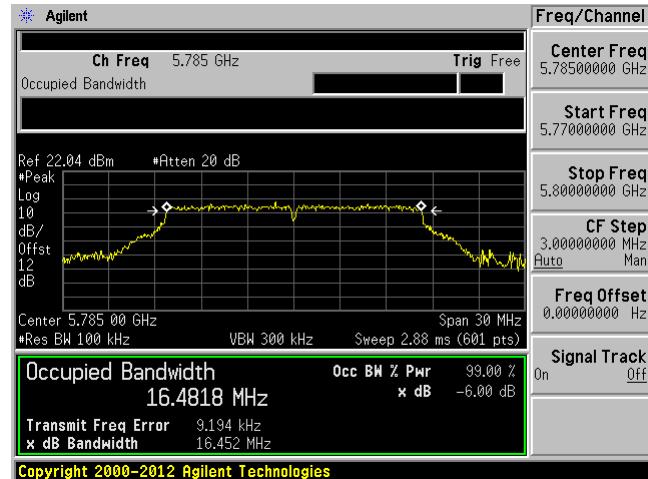
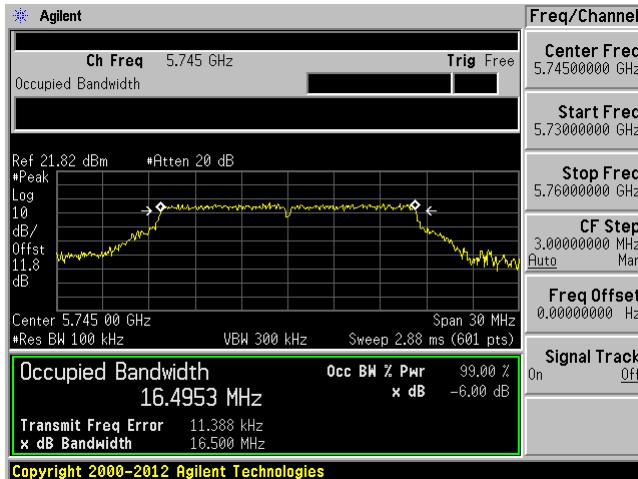


5725 – 5850 MHz

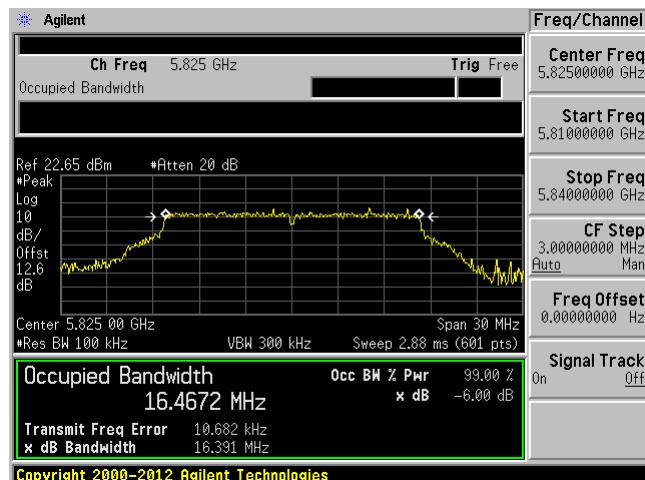
802.11a mode chain 1

5745 MHz

5785 MHz



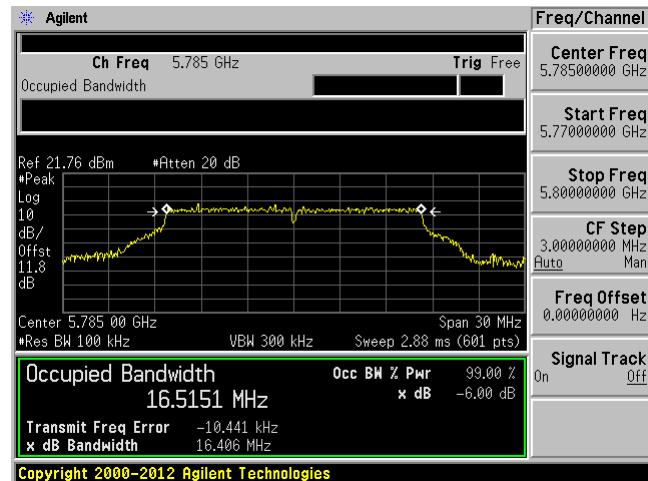
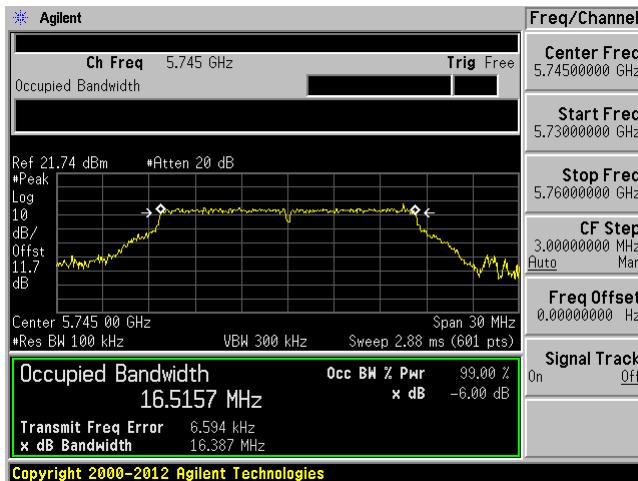
5825 MHz



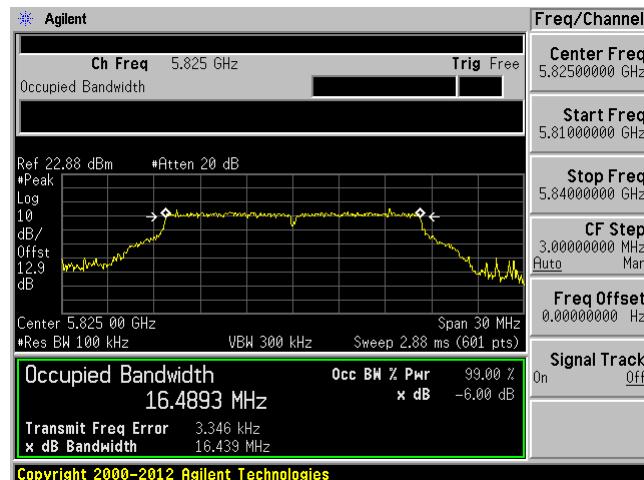
802.11a mode chain 2

57450 MHz

5785 MHz



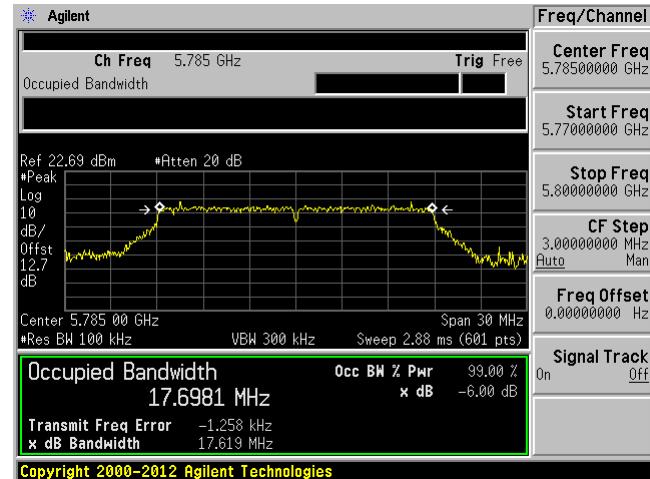
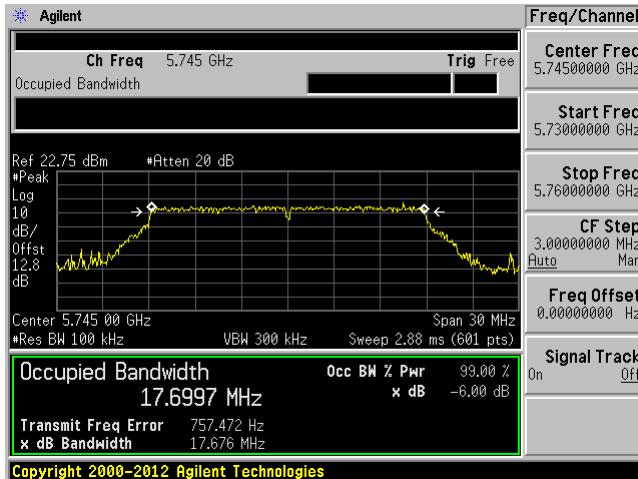
5825 MHz



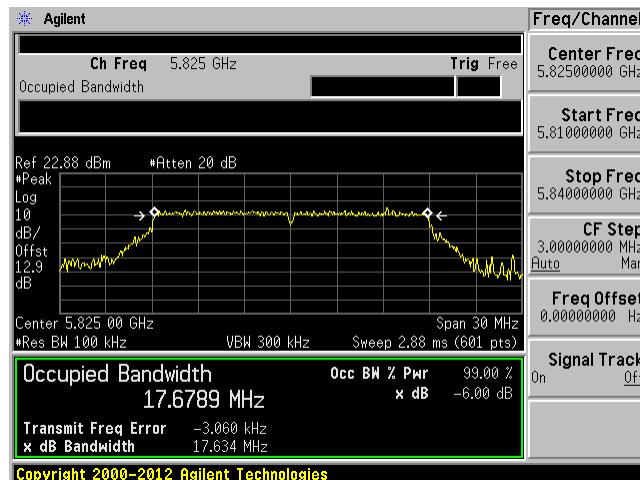
802.11n20 mode chain 1

5745 MHz

5785 MHz



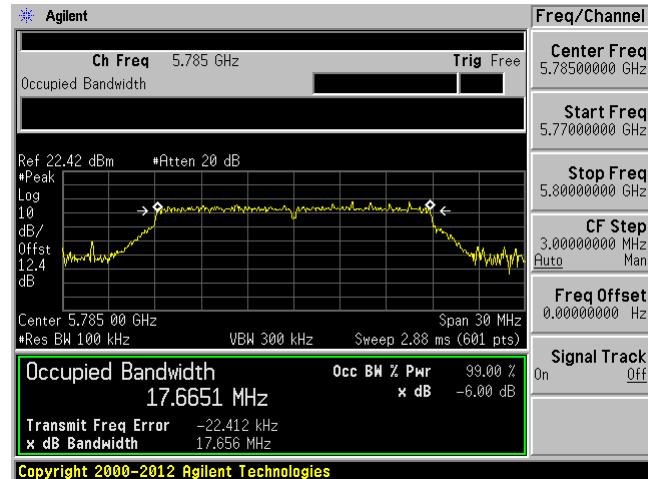
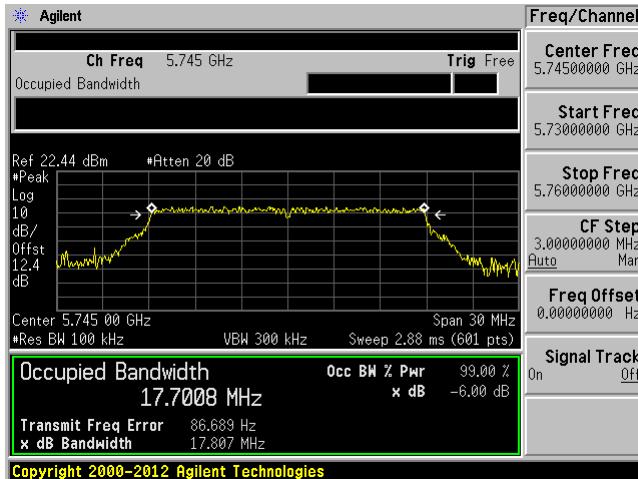
5825 MHz



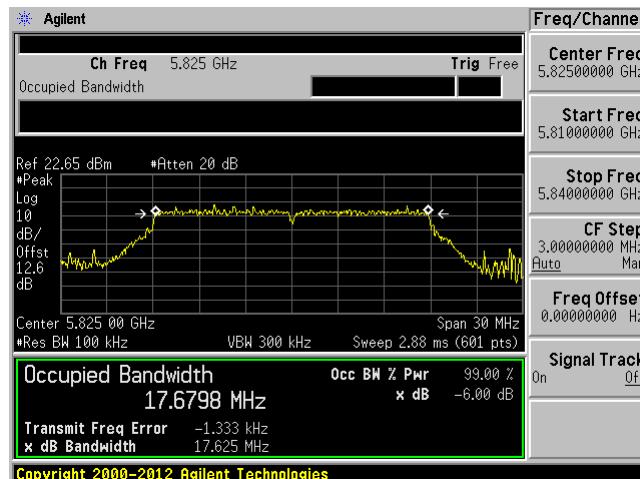
802.11n20 mode chain 2

5745 MHz

5785 MHz



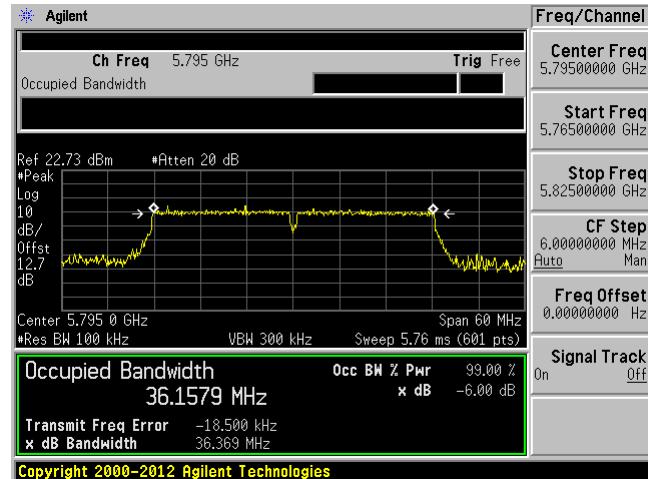
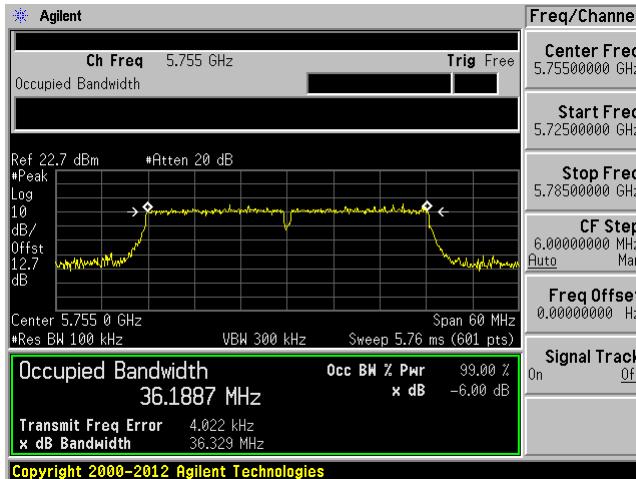
5825 MHz



802.11n40 mode chain 1

5755 MHz

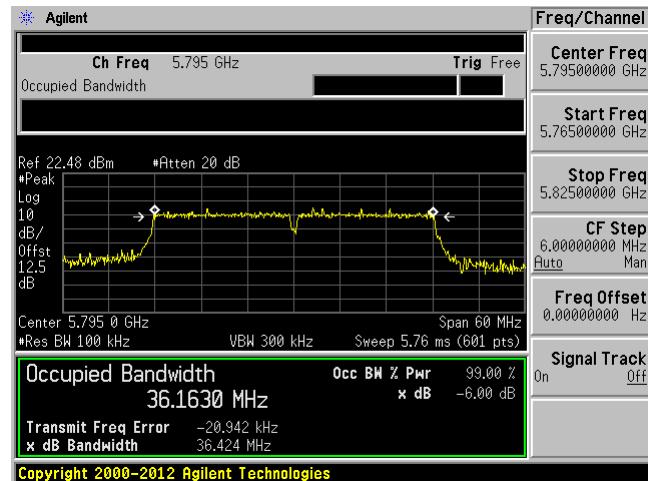
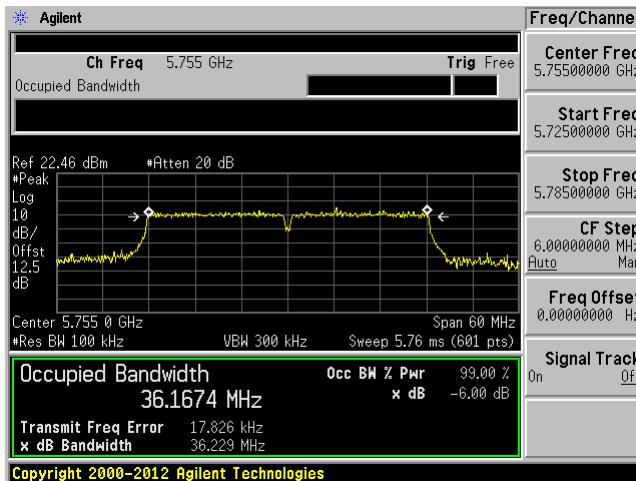
5795 MHz



802.11n40 mode chain 2

5755 MHz

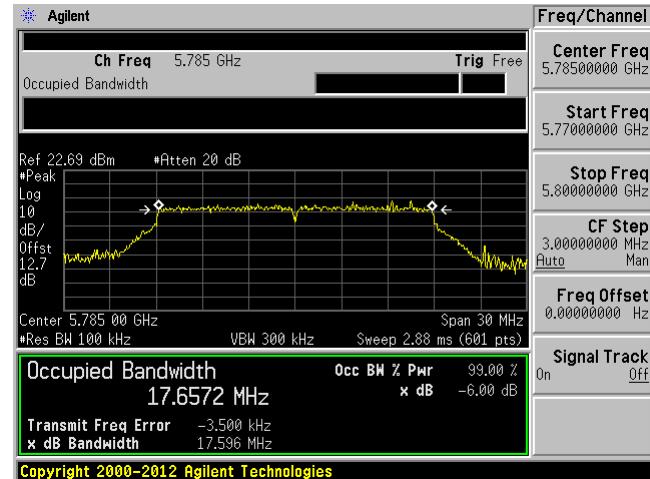
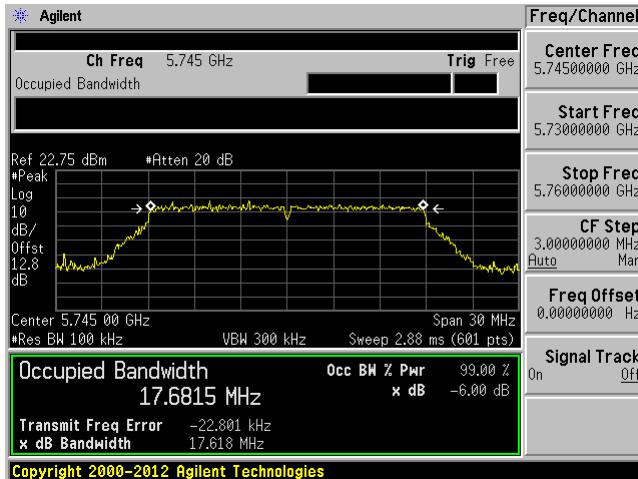
5795 MHz



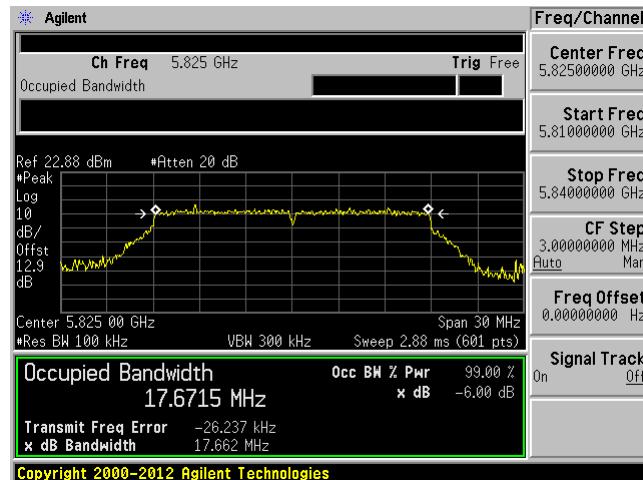
802.11ac20 mode chain 1

5745 MHz

5785 MHz



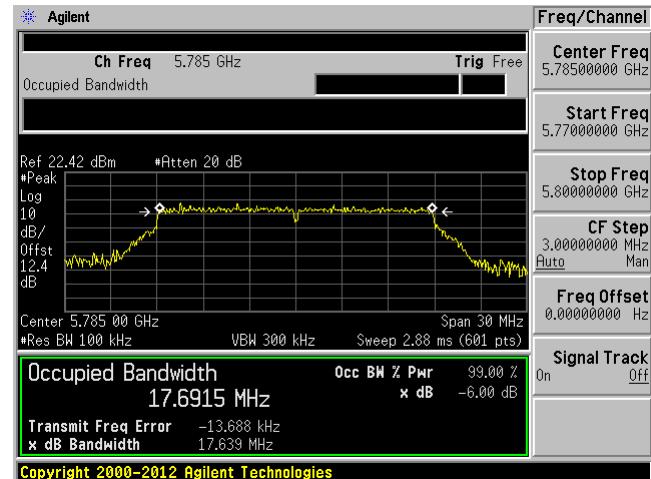
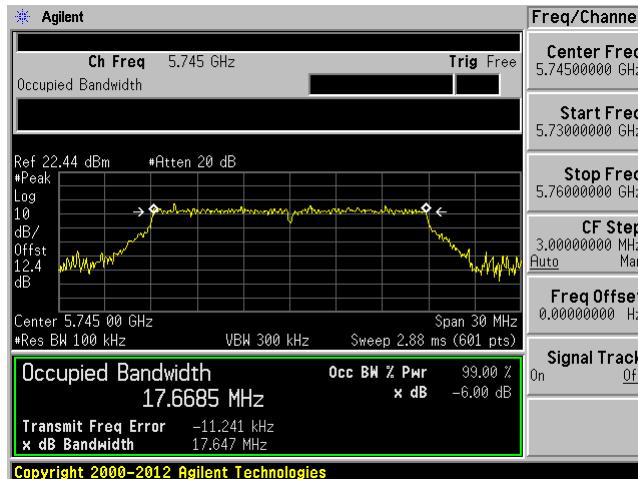
5825 MHz



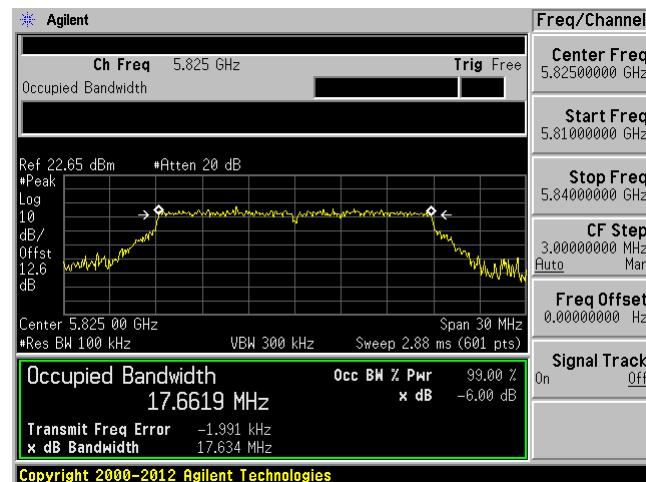
802.11ac20 mode chain 2

5745 MHz

5785 MHz



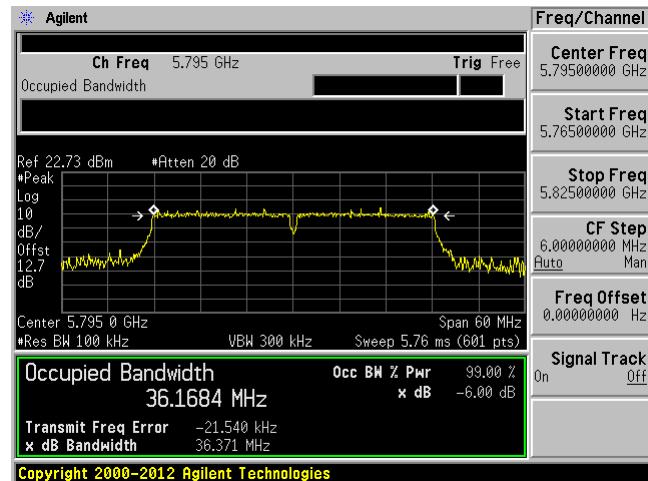
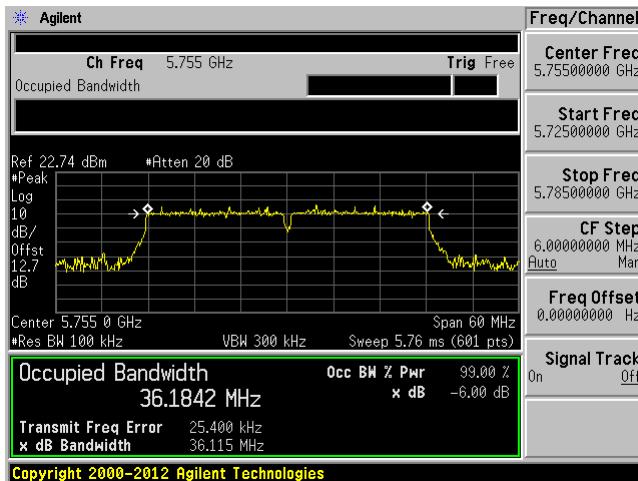
5825 MHz



802.11ac40 mode chain 1

5755 MHz

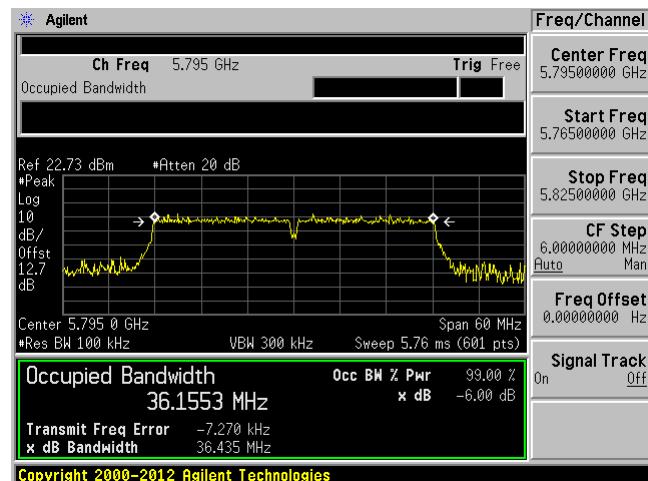
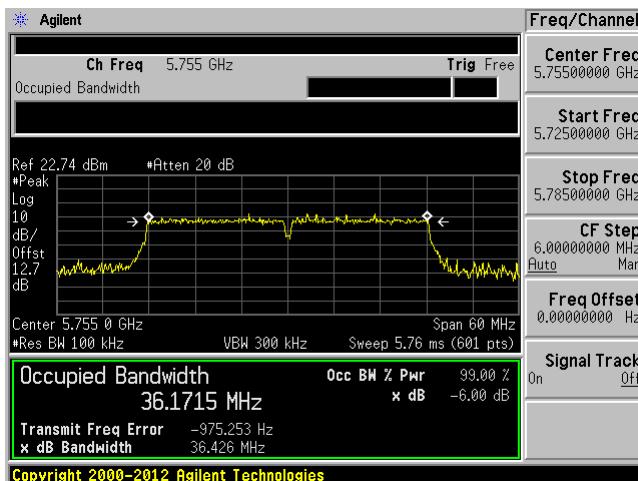
5795 MHz



802.11n40 mode chain 2

5755 MHz

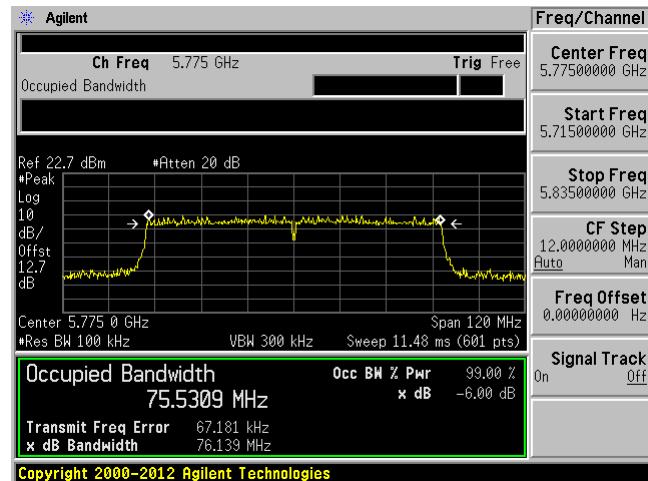
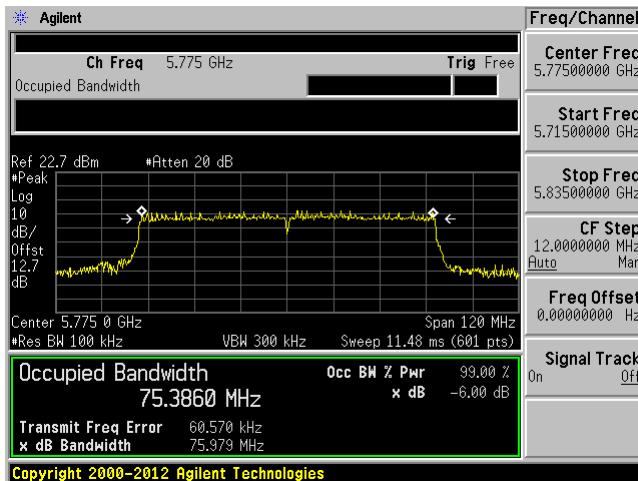
5795 MHz



802.11ac80 mode

5775 MHz chain 1

5775 MHz chain 2



9 FCC §407(a) & IC RSS-247 §6.2 - Output Power

9.1 Applicable Standards

According to FCC §15.407(a):

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, 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, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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 $11 + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, 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, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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, 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, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII 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.

According to IC RSS-247 §6.2.1 for frequency band 5150-5250 MHz:

The maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log 10B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

According to IC RSS-247 §6.2.2 for frequency band 5250-5350 MHz:

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log 10B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log 10B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

According to IC RSS-247 §6.2.3 for frequency band 5470-5600 MHz and 5650-5725 MHz:

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log 10B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log 10B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

According to IC RSS-247 §6.2.4 for frequency band 5725-5850 MHz:

The maximum conducted output power shall not exceed 1 W. The 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, both the maximum conducted output power and the 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 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.

9.2 Measurement Procedure

1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to a power meter.

9.3 Test Equipment List and Details

| Manufacturer | Description | Model No. | Serial No. | Calibration Date | Calibration Interval |
|---------------|----------------------|-----------|------------|------------------------|----------------------|
| ETS- Lingerin | Power Sensor | 7002-006 | 160097 | 2014-10-21 | 2 years |
| - | U. FL to SMA pigtail | - | - | Each time ¹ | N/A |
| - | 10dB attenuator | - | - | Each time ¹ | N/A |

Note¹: cable and attenuator included in the test set-up will be checked each time before testing.

Statement of Traceability: *BACL Corp.* attests that all calibrations have been performed per the A2LA requirements, traceable to the NIST.

9.4 Test Environmental Conditions

| | |
|---------------------------|-----------|
| Temperature: | 22° C |
| Relative Humidity: | 42 % |
| ATM Pressure: | 102.7 KPa |

The testing was performed by Jin Yang on 2016-01-21 in RF site.

9.5 Test Results

5150 - 5250 MHz

FCC Results

| Frequency (MHz) | Conducted Average Power (dBm) | | Total Average Power (dBm) | FCC Limit (dBm) |
|--------------------|-------------------------------|---------|---------------------------------|--------------------|
| | Chain 1 | Chain 2 | | |
| 802.11a mode | | | | |
| 5180 | 11.33 | 10.9 | - | 24 |
| 5200 | 12.19 | 10.89 | - | 24 |
| 5240 | 11.92 | 10.92 | - | 24 |
| 802.11n20 mode | | | | |
| 5180 | 10.24 | 10.9 | 13.59 | 24 |
| 5200 | 11.03 | 10.91 | 13.98 | 24 |
| 5240 | 10.98 | 10.85 | 13.93 | 24 |
| 802.11n40 mode | | | | |
| 5190 | 10.29 | 10.85 | 13.59 | 24 |
| 5230 | 11.04 | 10.96 | 14.01 | 24 |
| 802.11ac20 mode | | | | |
| 5180 | 10.32 | 10.92 | 13.64 | 24 |
| 5200 | 10.86 | 10.96 | 13.92 | 24 |
| 5240 | 10.86 | 10.45 | 13.67 | 24 |
| 802.11ac40 mode | | | | |
| 5190 | 10.34 | 10.96 | 13.67 | 24 |
| 5230 | 11 | 11.02 | 14.02 | 24 |
| 802.11ac80 mode | | | | |
| 5210 | 10.6 | 10.71 | 13.67 | 24 |

IC Results

| Frequency (MHz) | Conducted Average Power (dBm) | | EIRP (dBm) | | Total EIRP (dBm) | IC Limit (dBm) |
|--------------------|-------------------------------|---------|------------|---------|---------------------|-------------------|
| | Chain 1 | Chain 2 | Chain 1 | Chain 2 | | |
| 802.11a mode | | | | | | |
| 5180 | 11.33 | 10.9 | 14.03 | 11.1 | - | 23 |
| 5200 | 12.19 | 10.89 | 14.89 | 11.09 | - | 23 |
| 5240 | 11.92 | 10.92 | 14.62 | 11.12 | - | 23 |
| 802.11n20 mode | | | | | | |
| 5180 | 10.24 | 10.9 | 12.94 | 11.1 | 15.13 | 23 |
| 5200 | 11.03 | 10.91 | 13.73 | 11.11 | 15.62 | 23 |
| 5240 | 10.98 | 10.85 | 13.68 | 11.05 | 15.57 | 23 |
| 802.11n40 mode | | | | | | |
| 5190 | 10.29 | 10.85 | 12.99 | 11.05 | 15.14 | 23 |
| 5230 | 11.04 | 10.96 | 13.74 | 11.16 | 15.65 | 23 |
| 802.11ac20 mode | | | | | | |
| 5180 | 10.32 | 10.92 | 13.02 | 11.12 | 15.18 | 23 |
| 5200 | 10.86 | 10.96 | 13.56 | 11.16 | 15.53 | 23 |
| 5240 | 10.86 | 10.45 | 13.56 | 10.65 | 15.35 | 23 |
| 802.11ac40 mode | | | | | | |
| 5190 | 10.34 | 10.96 | 13.04 | 11.16 | 15.21 | 23 |
| 5230 | 11 | 11.02 | 13.7 | 11.22 | 15.64 | 23 |
| 802.11ac80 mode | | | | | | |
| 5210 | 10.6 | 10.71 | 13.3 | 10.91 | 15.28 | 23 |

5250 - 5350 MHz

| Frequency (MHz) | Conducted Average Power (dBm) | | Total Average Power (dBm) | FCC Limit (dBm) | IC Limit (dBm) |
|--------------------|-------------------------------|---------|---------------------------------|--------------------|-------------------|
| | Chain 1 | Chain 2 | | | |
| 802.11a mode | | | | | |
| 5260 | 11.8 | 10.61 | - | 24 | 24 |
| 5300 | 12.29 | 10.79 | - | 24 | 24 |
| 5320 | 12.43 | 10.8 | - | 24 | 24 |
| 802.11n20 mode | | | | | |
| 5260 | 11.53 | 10.29 | 13.96 | 24 | 24 |
| 5300 | 12.37 | 10.65 | 14.60 | 24 | 24 |
| 5320 | 12.32 | 10.96 | 14.70 | 24 | 24 |
| 802.11n40 mode | | | | | |
| 5270 | 12.01 | 11.01 | 14.55 | 24 | 24 |
| 5310 | 12.75 | 10.86 | 14.92 | 24 | 24 |
| 802.11ac20 mode | | | | | |
| 5260 | 11.51 | 10.4 | 14.00 | 24 | 24 |
| 5300 | 12.39 | 10.92 | 14.73 | 24 | 24 |
| 5320 | 12.39 | 11.02 | 14.77 | 24 | 24 |
| 802.11ac40 mode | | | | | |
| 5270 | 12.08 | 10.82 | 14.51 | 24 | 24 |
| 5310 | 12.66 | 11.2 | 15.00 | 24 | 24 |
| 802.11ac80 mode | | | | | |
| 5290 | 12.2 | 10.64 | 14.50 | 24 | 24 |

5470 - 5725 MHz

| Frequency (MHz) | Conducted Average Power (dBm) | | Total Average Power (dBm) | FCC Limit (dBm) | IC Limit (dBm) |
|--------------------|-------------------------------|---------|---------------------------------|--------------------|-------------------|
| | Chain 1 | Chain 2 | | | |
| 802.11a mode | | | | | |
| 5500 | 10.15 | 10.21 | - | 24 | 24 |
| 5580 | 10.4 | 9.55 | - | 24 | 24 |
| 5700 | 12.87 | 11.26 | - | 24 | 24 |
| 802.11n20 mode | | | | | |
| 5500 | 9.83 | 10.36 | 13.11 | 24 | 24 |
| 5580 | 9.45 | 9.4 | 12.44 | 24 | 24 |
| 5700 | 12.76 | 11.14 | 15.04 | 24 | 24 |
| 802.11n40 mode | | | | | |
| 5510 | 10.01 | 10.68 | 13.37 | 24 | 24 |
| 5550 | 9.3 | 10 | 12.67 | 24 | 24 |
| 5670 | 10.4 | 9.2 | 12.85 | 24 | 24 |
| 802.11ac20 mode | | | | | |
| 5500 | 9.79 | 10.31 | 13.07 | 24 | 24 |
| 5580 | 9.32 | 9.5 | 12.42 | 24 | 24 |
| 5700 | 12.7 | 11.22 | 15.03 | 24 | 24 |
| 802.11ac40 mode | | | | | |
| 5510 | 10.06 | 10.6 | 13.35 | 24 | 24 |
| 5550 | 9.43 | 10.22 | 12.85 | 24 | 24 |
| 5670 | 10.45 | 9.2 | 12.88 | 24 | 24 |
| 802.11ac80 mode | | | | | |
| 5530 | 9.27 | 10.01 | 12.67 | 24 | 24 |
| 5610* | 9.91 | 9.41 | 12.68 | 24 | - |

*Note: This is an FCC only channel.

5725 - 5850 MHz

| Frequency (MHz) | Conducted Average Power (dBm) | | Total Average Power (dBm) | FCC Limit (dBm) | IC Limit (dBm) |
|--------------------|-------------------------------|---------|---------------------------------|--------------------|-------------------|
| | Chain 1 | Chain 2 | | | |
| 802.11a mode | | | | | |
| 5745 | 13.5 | 11.67 | - | 30 | 30 |
| 5785 | 12.94 | 12.01 | - | 30 | 30 |
| 5825 | 11.66 | 12.83 | - | 30 | 30 |
| 802.11n20 mode | | | | | |
| 5745 | 13.5 | 11.83 | 15.76 | 30 | 30 |
| 5785 | 13.08 | 12.08 | 15.62 | 30 | 30 |
| 5825 | 11.58 | 11.43 | 14.52 | 30 | 30 |
| 802.11n40 mode | | | | | |
| 5755 | 13.5 | 12.14 | 15.88 | 30 | 30 |
| 5795 | 12.03 | 11.65 | 14.85 | 30 | 30 |
| 802.11ac20 mode | | | | | |
| 5745 | 13.46 | 11.9 | 15.76 | 30 | 30 |
| 5785 | 13.06 | 12.16 | 15.64 | 30 | 30 |
| 5825 | 11.45 | 11.4 | 14.44 | 30 | 30 |
| 802.11ac40 mode | | | | | |
| 5755 | 13.5 | 12.32 | 15.96 | 30 | 30 |
| 5795 | 12.05 | 11.34 | 14.72 | 30 | 30 |
| 802.11ac80 mode | | | | | |
| 5775 | 13.1 | 12.08 | 15.63 | 30 | 30 |

Note: Duty cycle correction factor has already been added to the measurements.

10 FCC §15.407(a) & IC RSS-247 §6.2 - Power Spectral Density

10.1 Applicable Standards

According to FCC §15.407(a):

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, 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, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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 $11 + 10 \log_{10} B$, where B is the 26 dB emission bandwidth in megahertz. In addition, 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, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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, 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, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII 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.

According to IC RSS-247 §6.2.1 for frequency band 5150-5250 MHz:

The maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

According to IC RSS-247 §6.2.2 for frequency band 5250-5350 MHz:

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

According to IC RSS-247 §6.2.3 for frequency band 5470-5600 MHz and 5650-5725 MHz:

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

According to IC RSS-247 §6.2.4 for frequency band 5725-5850 MHz:

The maximum conducted output power shall not exceed 1 W. The 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, both the maximum conducted output power and the 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 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.

10.2 Measurement Procedure

- (i) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- (ii) Set RBW = 1 MHz.
- (iii) Set VBW \geq 3 MHz.
- (iv) Number of points in sweep \geq 2 Span / RBW. (This ensures that bin-to-bin spacing is \leq RBW/2, so that narrowband signals are not lost between frequency bins.)
- (v) Sweep time = auto.
- (vi) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- (vii) If transmit duty cycle < 98 percent, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle \geq 98 percent, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run”.
- (viii) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- (ix) Compute power by integrating the spectrum across the 26 dB EBW of the signal using the spectrum analyzer’s band power measurement function with band limits set equal to the EBW band edges. If the spectrum analyzer does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the 26 dB EBW of the spectrum.

10.3 Test Equipment List and Details

| Manufacturer | Description | Model No. | Serial No. | Calibration Date | Calibration Interval |
|--------------|----------------------|-----------|------------|------------------------|----------------------|
| Agilent | Analyzer, Spectrum | E4440A | MY44303352 | 2015-06-22 | 1 year |
| - | U. FL to SMA pigtail | - | - | Each time ¹ | N/A |
| - | 10dB attenuator | - | - | Each time ¹ | N/A |

Note¹: cable and attenuator included in the test set-up will be checked each time before testing.

Statement of Traceability: BACL Corp. attests that all calibrations have been performed per the A2LA requirements, traceable to the NIST.

10.4 Test Environmental Conditions

| | |
|---------------------------|-----------------|
| Temperature: | 22-24 °C |
| Relative Humidity: | 40-41 % |
| ATM Pressure: | 103.1-104.1 kPa |

The testing was performed by Todd Moy on 2016-01-05 at RF site.

10.5 Test Results

5150 – 5250 MHz

FCC Results:

| Freq. (MHz) | Measured PSD (dBm/MHz) | | Corrected PSD (dBm/MHz) | | Total PSD (dBm/MHz) | FCC limit (dBm/MHz) |
|------------------------|-------------------------------|----------------|--------------------------------|----------------|--------------------------------|--------------------------------|
| | Chain 1 | Chain 2 | Chain 1 | Chain 2 | | |
| 802.11a mode | | | | | | |
| 5180 | -0.492 | -1.466 | -0.412 | -1.386 | - | 11 |
| 5200 | 0.065 | -0.255 | 0.145 | -0.175 | - | 11 |
| 5240 | 0.217 | -1.274 | 0.297 | -1.194 | - | 11 |
| 802.11n20 mode | | | | | | |
| 5180 | -6.972 | -3.983 | -6.882 | -3.893 | -2.12 | 11 |
| 5200 | -1.51 | -0.557 | -1.42 | -0.467 | 2.09 | 11 |
| 5240 | -1.621 | -0.823 | -1.531 | -0.733 | 1.9 | 11 |
| 802.11n40 mode | | | | | | |
| 5190 | -4.667 | -6.588 | -4.397 | -6.318 | -2.24 | 11 |
| 5230 | -4.261 | -3.375 | -3.991 | -3.105 | -0.52 | 11 |
| 802.11ac20 mode | | | | | | |
| 5180 | -1.981 | -4.174 | -1.811 | -4.004 | 0.24 | 11 |
| 5200 | -1.721 | -0.694 | -1.551 | -0.524 | 2 | 11 |
| 5240 | -1.355 | -3.42 | -1.185 | -3.25 | 0.91 | 11 |
| 802.11ac40 mode | | | | | | |
| 5190 | -4.728 | -6.379 | -4.148 | -5.799 | -1.89 | 11 |
| 5230 | -4.008 | -3.262 | -3.428 | -2.682 | -0.03 | 11 |
| 802.11ac80 mode | | | | | | |
| 5210 | -7.283 | -6.697 | -6.283 | -5.697 | -2.97 | 11 |

IC Results:

| Freq. (MHz) | Measured PSD (dBm/MHz) | | Corrected PSD (dBm/MHz) | | EIRP PSD (dBm/MHz) | | Total EIRP PSD (dBm/MHz) | IC limit (dBm/MHz) |
|-----------------|---------------------------|---------|----------------------------|---------|-----------------------|---------|-----------------------------------|-----------------------|
| | Chain 1 | Chain 2 | Chain 1 | Chain 2 | Chain 1 | Chain 2 | | |
| 802.11a mode | | | | | | | | |
| 5180 | -0.492 | -1.466 | -0.412 | -1.386 | 2.288 | -1.186 | - | 10 |
| 5200 | 0.065 | -0.255 | 0.145 | -0.175 | 2.845 | 0.025 | - | 10 |
| 5240 | 0.217 | -1.274 | 0.297 | -1.194 | 2.997 | -0.994 | - | 10 |
| 802.11n20 mode | | | | | | | | |
| 5180 | -6.972 | -3.983 | -6.882 | -3.893 | -4.182 | -3.693 | -0.92 | 10 |
| 5200 | -1.51 | -0.557 | -1.42 | -0.467 | 1.28 | -0.267 | 3.59 | 10 |
| 5240 | -1.621 | -0.823 | -1.531 | -0.733 | 1.169 | -0.533 | 3.41 | 10 |
| 802.11n40 mode | | | | | | | | |
| 5190 | -4.667 | -6.588 | -4.397 | -6.318 | -1.697 | -6.118 | -0.36 | 10 |
| 5230 | -4.261 | -3.375 | -3.991 | -3.105 | -1.291 | -2.905 | 0.99 | 10 |
| 802.11ac20 mode | | | | | | | | |
| 5180 | -1.981 | -4.174 | -1.811 | -4.004 | 0.889 | -3.804 | 2.16 | 10 |
| 5200 | -1.721 | -0.694 | -1.551 | -0.524 | 1.149 | -0.324 | 3.48 | 10 |
| 5240 | -1.355 | -3.42 | -1.185 | -3.25 | 1.515 | -3.05 | 2.82 | 10 |
| 802.11ac40 mode | | | | | | | | |
| 5190 | -4.728 | -6.379 | -4.148 | -5.799 | -1.448 | -5.599 | -0.04 | 10 |
| 5230 | -4.008 | -3.262 | -3.428 | -2.682 | -0.728 | -2.482 | 1.49 | 10 |
| 802.11ac80 mode | | | | | | | | |
| 5210 | -7.283 | -6.697 | -6.283 | -5.697 | -3.583 | -5.497 | -1.43 | 10 |

5250 – 5350 MHz

| Freq. (MHz) | PSD (dBm/MHz) | | Corrected PSD (dBm/MHz) | | Total PSD (dBm/MHz) | FCC limit (dBm/MHz) | IC limit (dBm/MHz) |
|-----------------|---------------|---------|----------------------------|---------|------------------------|------------------------|-----------------------|
| | Chain 1 | Chain 2 | Chain 1 | Chain 2 | | | |
| 802.11a mode | | | | | | | |
| 5260 | 0.048 | -1.017 | 0.128 | -0.937 | - | 11 | 11 |
| 5300 | 0.117 | -1.225 | 0.197 | -1.145 | - | 11 | 11 |
| 5320 | 0.519 | -1.073 | 0.599 | -0.993 | - | 11 | 11 |
| 802.11n20 mode | | | | | | | |
| 5260 | -0.264 | -3.548 | -0.174 | -3.458 | 1.50 | 11 | 11 |
| 5300 | 0.039 | -2.919 | 0.129 | -2.829 | 1.91 | 11 | 11 |
| 5320 | -0.078 | -2.586 | 0.012 | -2.496 | 1.95 | 11 | 11 |
| 802.11n40 mode | | | | | | | |
| 5270 | -3.604 | -5.14 | -3.334 | -4.87 | -1.02 | 11 | 11 |
| 5310 | -2.659 | -5.355 | -2.389 | -5.085 | -0.52 | 11 | 11 |
| 802.11ac20 mode | | | | | | | |
| 5260 | -0.32 | -3.475 | -0.15 | -3.305 | 1.56 | 11 | 11 |
| 5300 | -0.012 | -3.129 | 0.158 | -2.959 | 1.88 | 11 | 11 |
| 5320 | 0.047 | -2.746 | 0.217 | -2.576 | 2.05 | 11 | 11 |
| 802.11ac40 mode | | | | | | | |
| 5270 | -2.825 | -2.391 | -2.245 | -1.811 | 0.99 | 11 | 11 |
| 5310 | -2.727 | -2.315 | -2.147 | -1.735 | 1.07 | 11 | 11 |
| 802.11ac80 mode | | | | | | | |
| 5290 | -6.171 | -5.781 | -5.171 | -4.781 | -1.96 | 11 | 11 |

5470 – 5725 MHz

| Freq. (MHz) | PSD (dBm/MHz) | | Corrected PSD (dBm/MHz) | | Total PSD (dBm/MHz) | FCC limit (dBm/MHz) | IC limit (dBm/MHz) |
|-----------------|---------------|---------|----------------------------|---------|------------------------|------------------------|-----------------------|
| | Chain 1 | Chain 2 | Chain 1 | Chain 2 | | | |
| 802.11a mode | | | | | | | |
| 5500 | -1.79 | -1.594 | -1.71 | -1.514 | - | 11 | 11 |
| 5580 | -1.422 | -2.717 | -1.342 | -2.637 | - | 11 | 11 |
| 5700 | -0.799 | -4.125 | -0.719 | -4.045 | - | 11 | 11 |
| 802.11n20 mode | | | | | | | |
| 5500 | -3.074 | -2.79 | -2.984 | -2.7 | 0.17 | 11 | 11 |
| 5580 | -2.71 | -3.878 | -2.62 | -3.788 | -0.15 | 11 | 11 |
| 5700 | -1.795 | 0.861 | -1.705 | 0.951 | 2.83 | 11 | 11 |
| 802.11n40 mode | | | | | | | |
| 5510 | -5.909 | -5.384 | -5.639 | -5.114 | -2.36 | 11 | 11 |
| 5550 | -5.477 | -5.981 | -5.207 | -5.711 | -2.44 | 11 | 11 |
| 5670 | -4.404 | -6.611 | -4.134 | -6.341 | -2.09 | 11 | 11 |
| 802.11ac20 mode | | | | | | | |
| 5500 | -3.068 | -2.552 | -2.898 | -2.382 | 0.38 | 11 | 11 |
| 5580 | -2.792 | -3.77 | -2.622 | -3.6 | -0.07 | 11 | 11 |
| 5700 | -1.974 | 0.583 | -1.804 | 0.753 | 2.67 | 11 | 11 |
| 802.11ac40 mode | | | | | | | |
| 5510 | -5.876 | -5.121 | -5.296 | -4.541 | -1.89 | 11 | 11 |
| 5550 | -5.807 | -4.937 | -5.227 | -4.357 | -1.76 | 11 | 11 |
| 5670 | -4.52 | -3.935 | -3.94 | -3.355 | -0.63 | 11 | 11 |
| 802.11ac80 mode | | | | | | | |
| 5530 | -9.245 | -8.611 | -8.245 | -7.611 | -4.91 | 11 | 11 |
| 5610* | -8.426 | -9 | -7.426 | -8 | -4.69 | 11 | 11 |

*Note: This is an FCC only channel.

5725 - 5850 MHz

| Freq. (MHz) | PSD (dBm/MHz) | | Corrected PSD (dBm/MHz) | | Total PSD (dBm/MHz) | FCC/IC Limit (dBm/500 kHz) | |
|-----------------|---------------|---------|----------------------------|---------|------------------------|-------------------------------|----|
| | Chain 1 | Chain 2 | Chain 1 | Chain 2 | | | |
| 802.11a mode | | | | | | | |
| 5745 | -7.626 | -8.876 | -0.5563 | -1.8063 | - | 30 | 30 |
| 5785 | -7.631 | -8.41 | -0.5613 | -1.3403 | - | 30 | 30 |
| 5825 | -9.688 | -9.83 | -2.6183 | -2.7603 | - | 30 | 30 |
| 802.11n20 mode | | | | | | | |
| 5745 | -7.893 | -9.155 | -0.8133 | -2.0753 | 1.61 | 30 | 30 |
| 5785 | -8.096 | -8.828 | -1.0163 | -1.7483 | 1.64 | 30 | 30 |
| 5825 | -9.287 | -8.975 | -2.2073 | -1.8953 | 0.96 | 30 | 30 |
| 802.11n40 mode | | | | | | | |
| 5755 | -10.584 | -11.829 | -3.3243 | -4.5693 | -0.89 | 30 | 30 |
| 5795 | -11.659 | -12.339 | -4.3993 | -5.0793 | -1.72 | 30 | 30 |
| 802.11ac20 mode | | | | | | | |
| 5745 | -7.647 | -9.352 | -0.4873 | -2.1923 | 1.75 | 30 | 30 |
| 5785 | -8.227 | -8.34 | -1.0673 | -1.1803 | 1.89 | 30 | 30 |
| 5825 | -9.444 | -8.758 | -2.2843 | -1.5983 | 1.08 | 30 | 30 |
| 802.11ac40 mode | | | | | | | |
| 5755 | -10.711 | -14.237 | -3.1413 | -6.6673 | -1.55 | 30 | 30 |
| 5795 | -11.768 | -13.867 | -4.1983 | -6.2973 | -2.11 | 30 | 30 |
| 802.11ac80 mode | | | | | | | |
| 5775 | -14.671 | -17.712 | -6.6813 | -9.7223 | -4.93 | 30 | 30 |

Corrected PSD (dBm/MHz) = PSD (dBm/MHz) + Duty Cycle Correction (dB)

Note: For the 5725-5850 MHz band, the Corrected PSD (dBm/500 kHz) is equal to:

Correct PSD (dBm/500 kHz) = PSD (dBm/100 kHz) + Duty Cycle Correction (dB) + $10 * \log(500 \text{ kHz} / 100 \text{ kHz})$

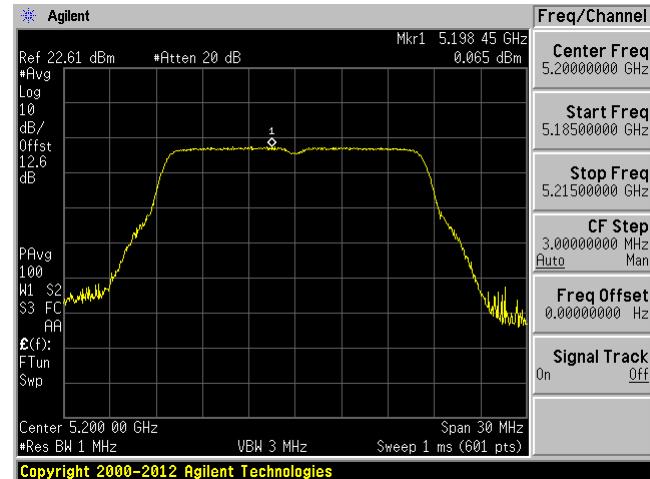
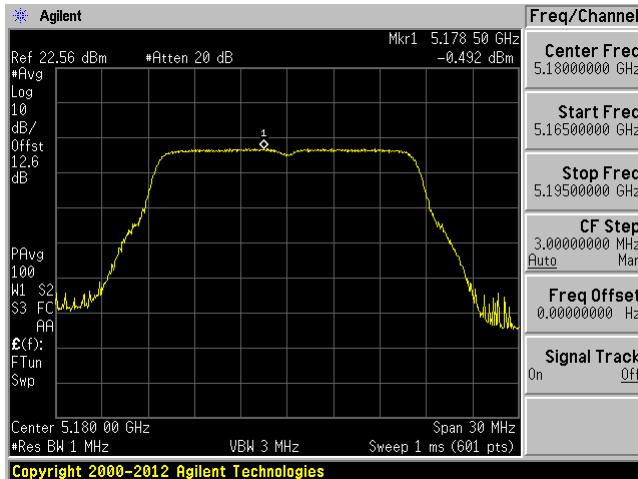
Please refer to the following plots.

5150 – 5250 MHz

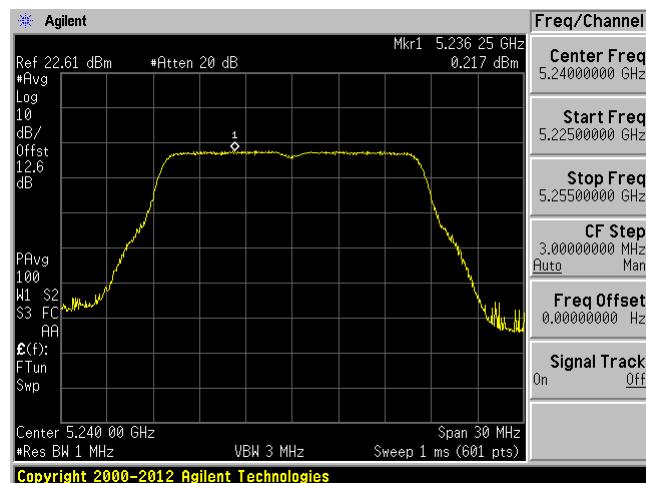
802.11a mode chain 1

5180 MHz

5200 MHz



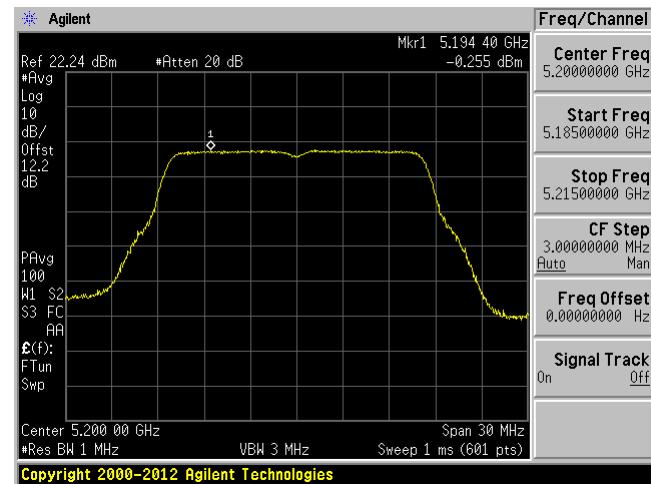
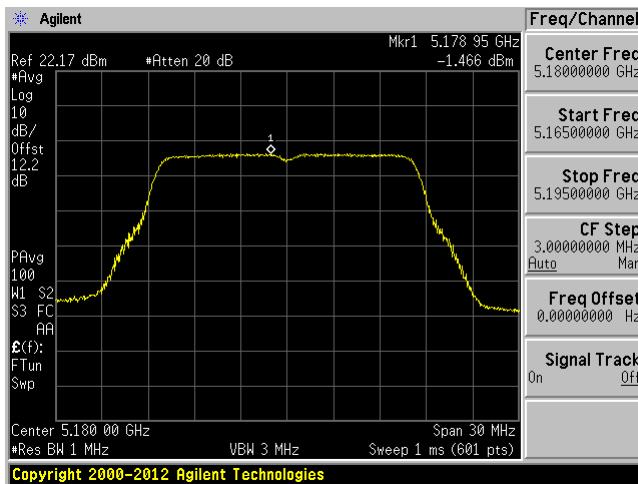
5240 MHz



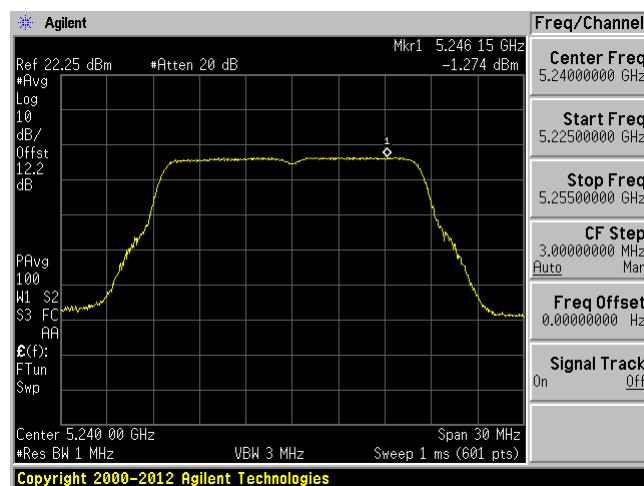
802.11a mode chain 2

5180 MHz

5200 MHz



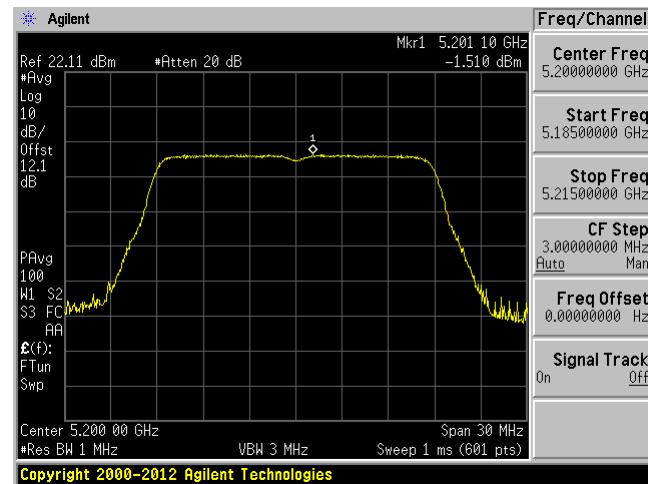
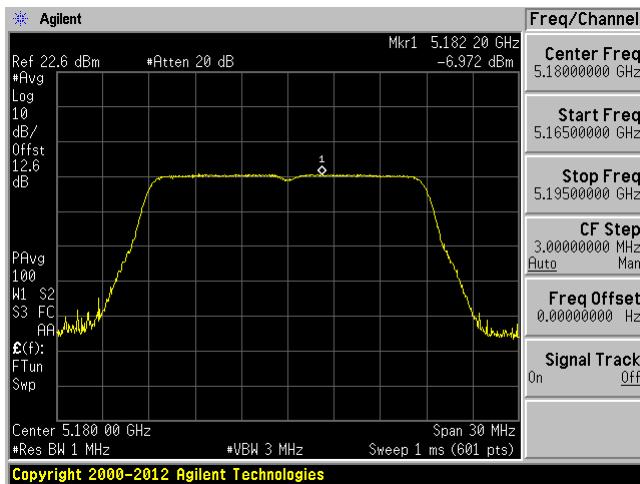
5240 MHz



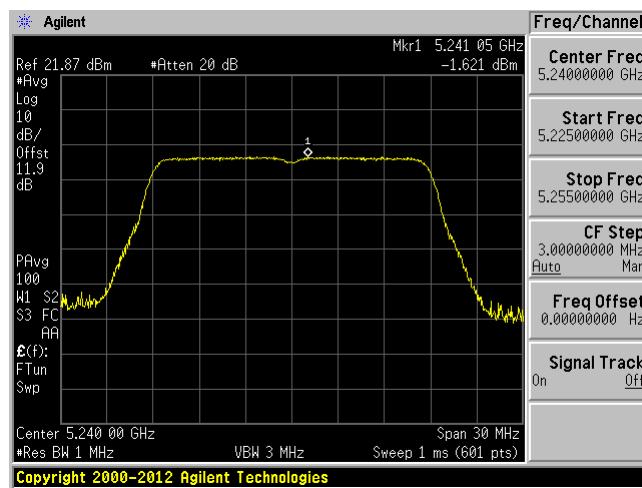
802.11n20 mode chain 1

5180 MHz

5200 MHz



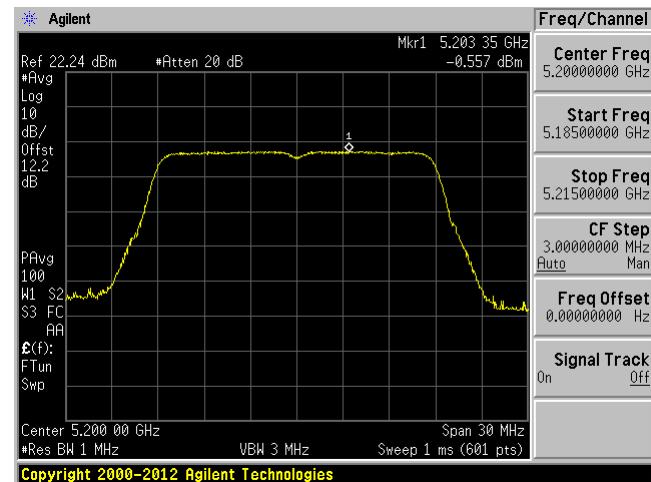
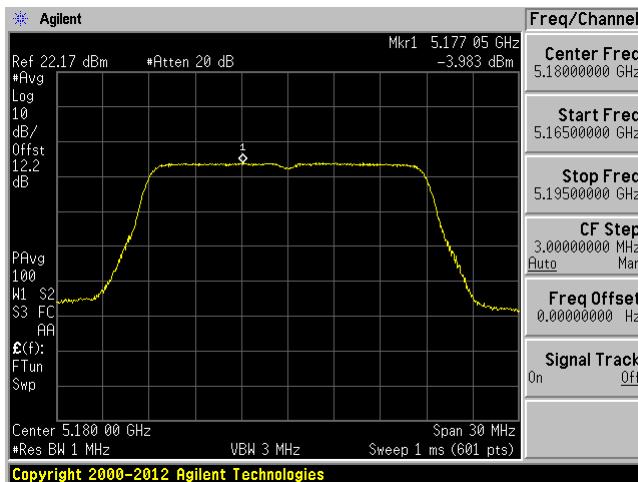
5240 MHz



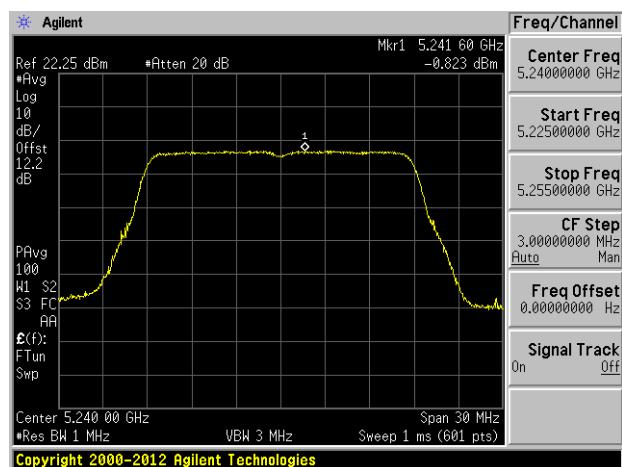
802.11n20 mode chain 2

5180 MHz

5200 MHz



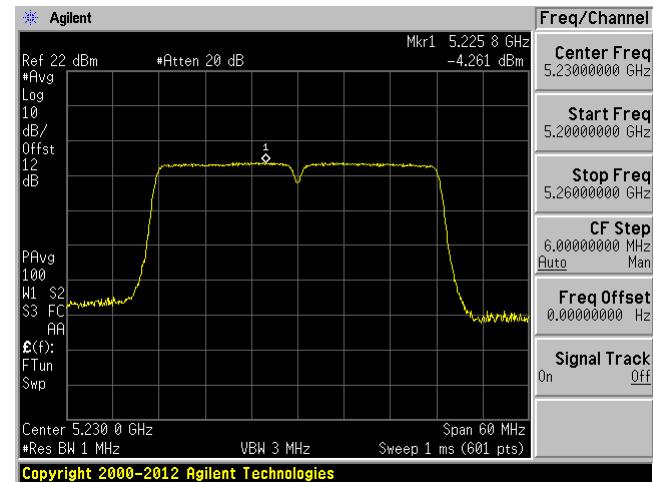
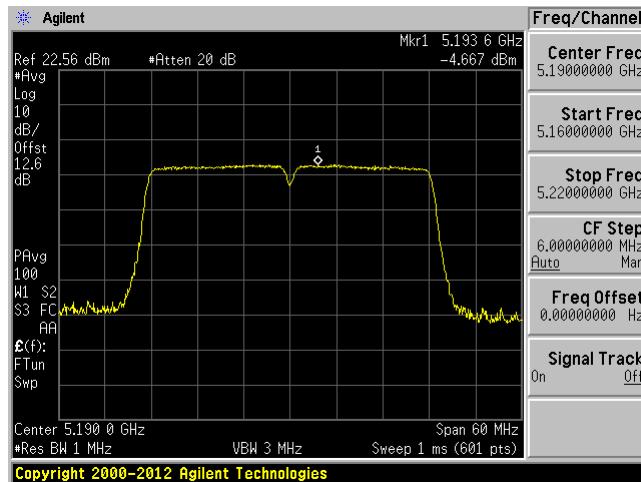
5240 MHz



802.11n40 mode chain 1

5190 MHz

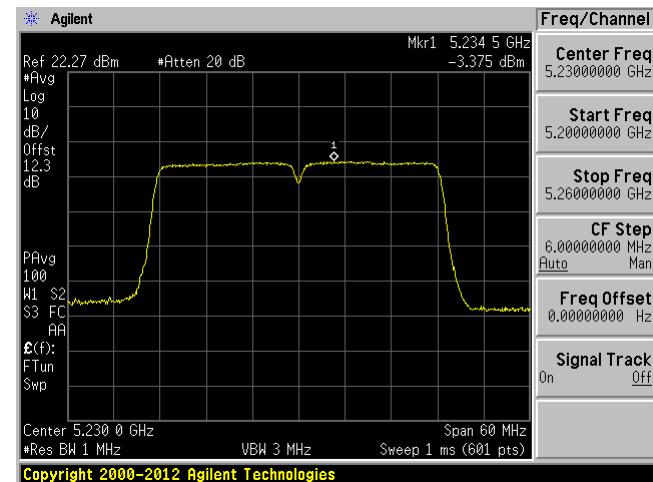
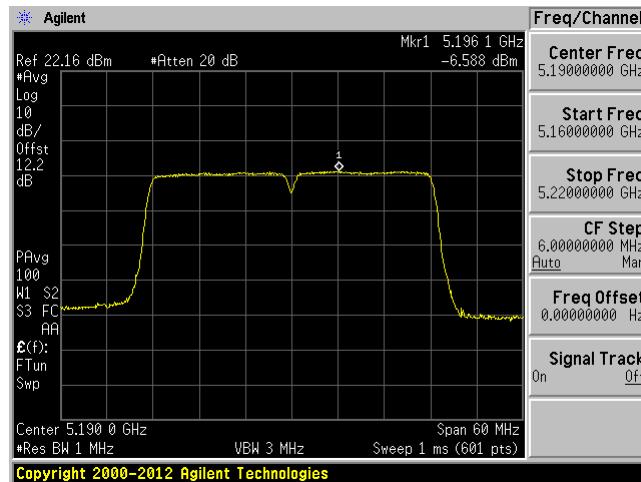
5230 MHz



802.11n40 mode chain 2

5190 MHz

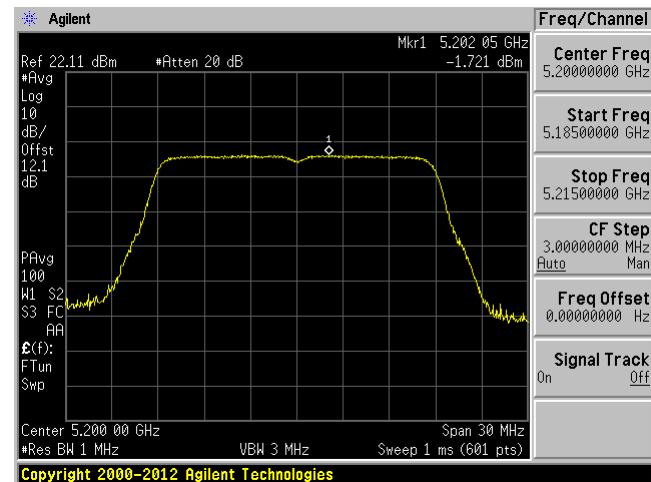
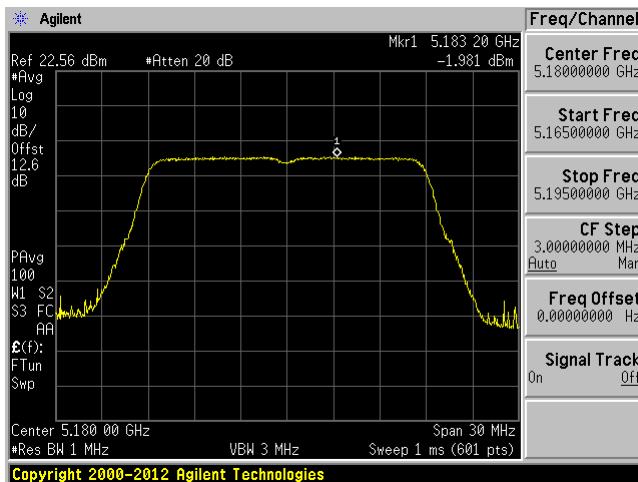
5230 MHz



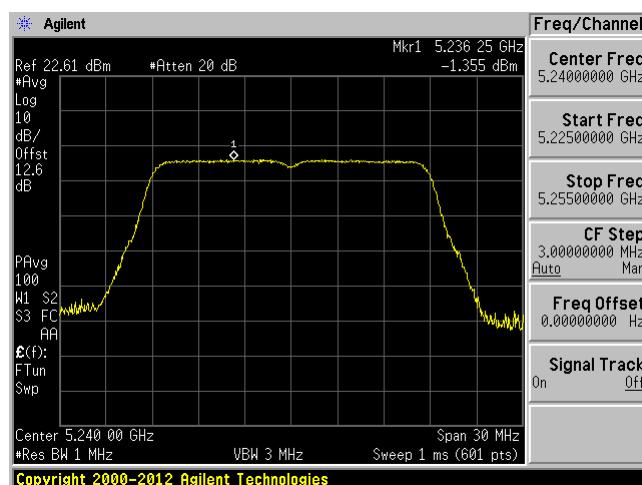
802.11ac20 mode chain 1

5180 MHz

5200 MHz



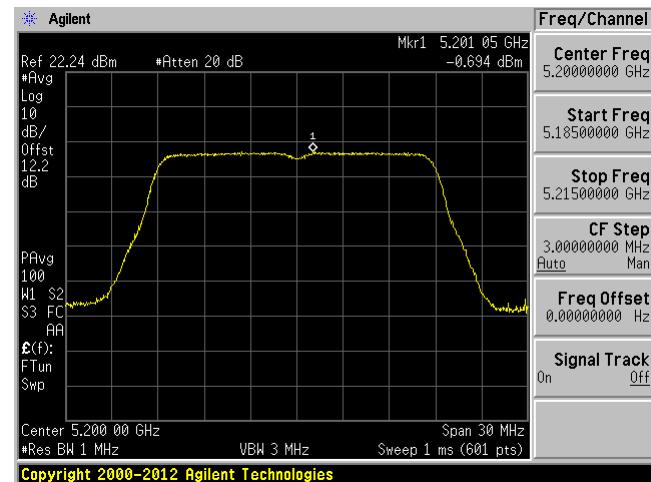
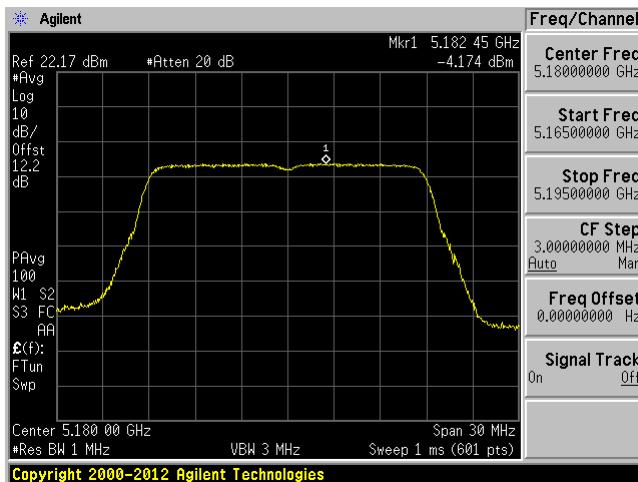
5240 MHz



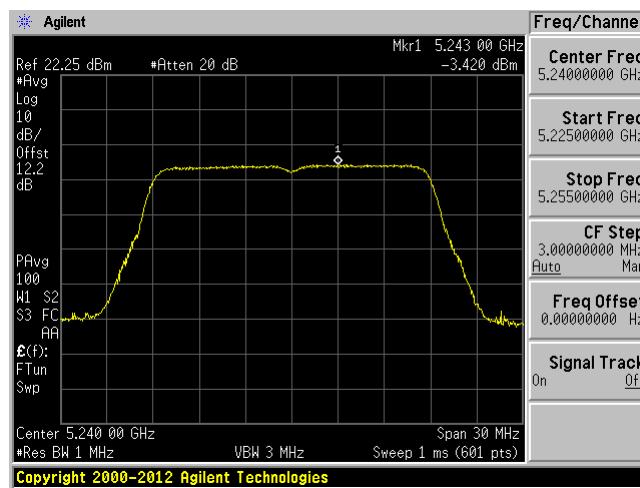
802.11ac20 mode chain 2

5180 MHz

5200 MHz



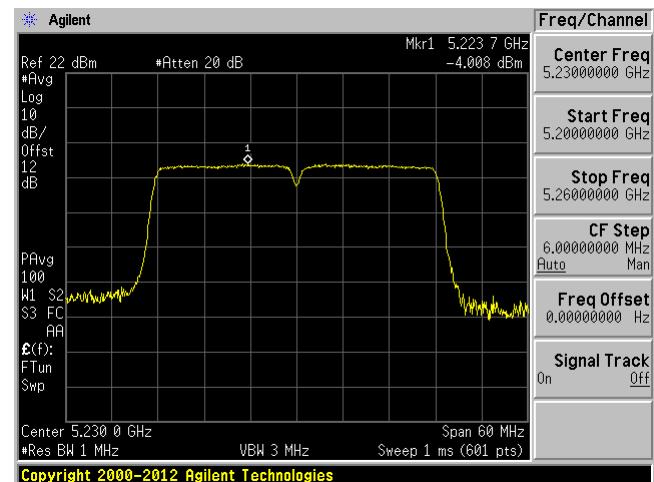
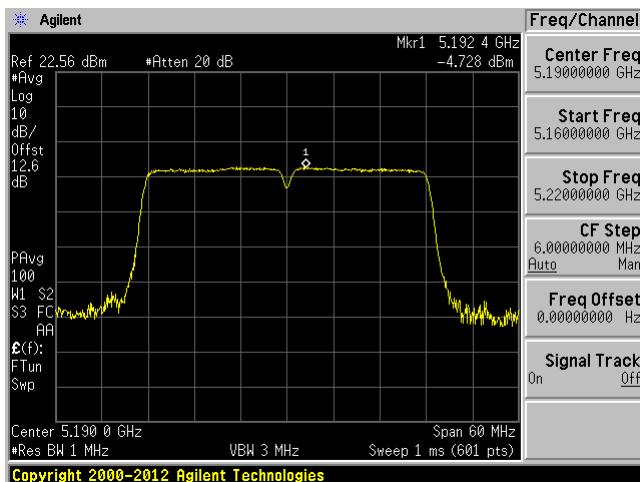
5240 MHz



802.11ac40 mode chain 1

5190 MHz

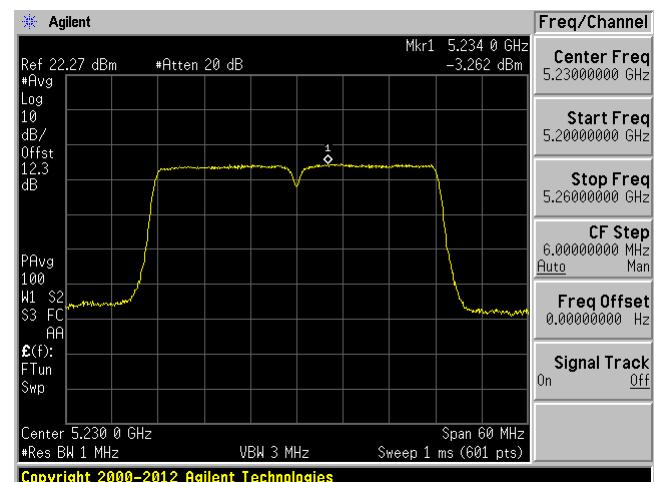
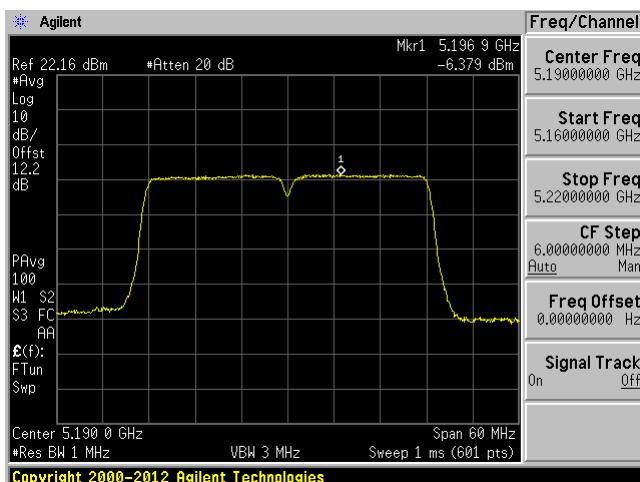
5230 MHz



802.11n40 mode chain 2

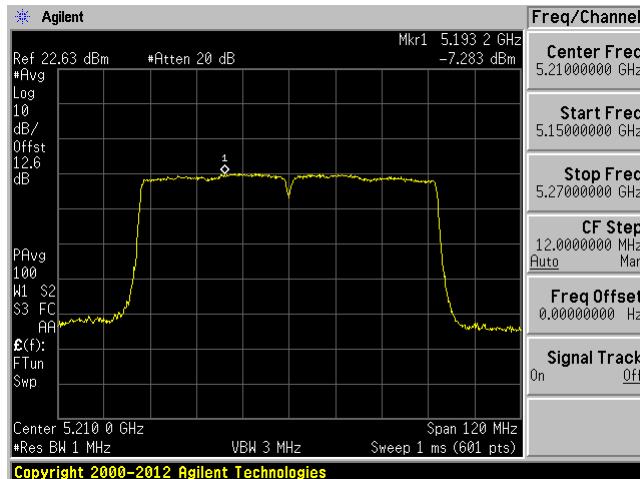
5190 MHz

5230 MHz

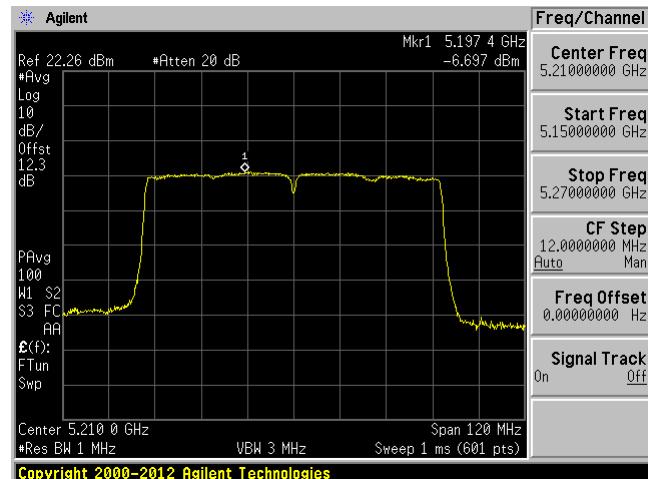


802.11ac80 mode

5210 MHz chain 1



5210 MHz chain 2

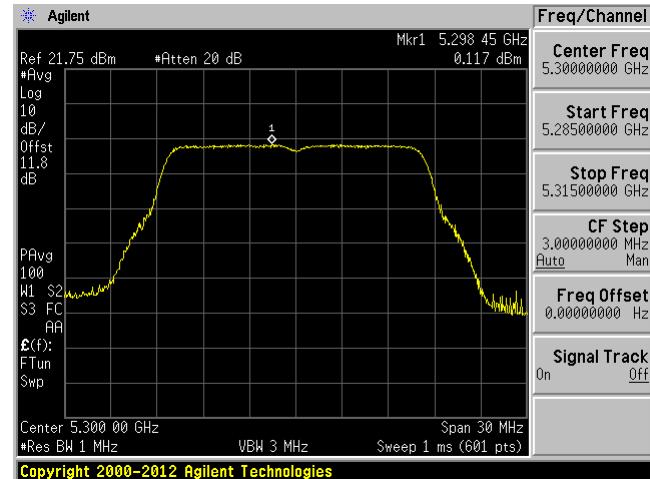
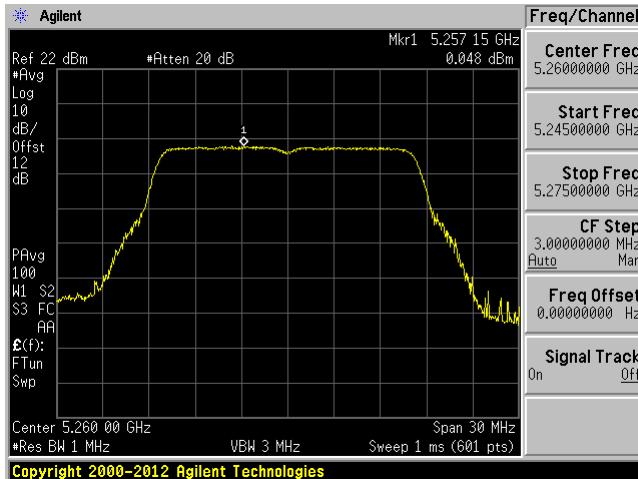


5250 – 5350 MHz

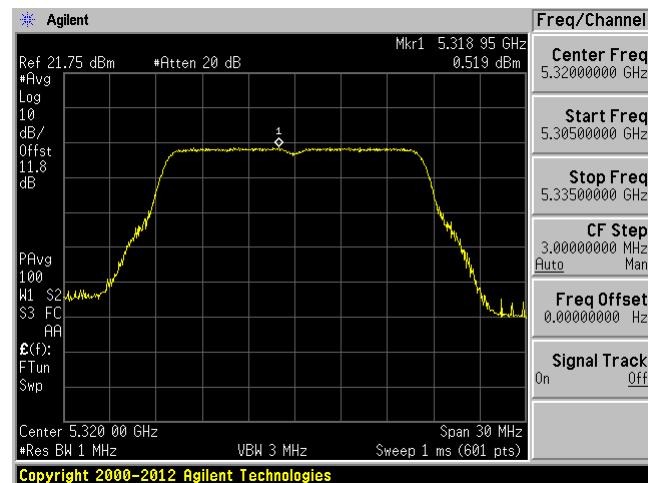
802.11a mode chain 1

5260 MHz

5300 MHz



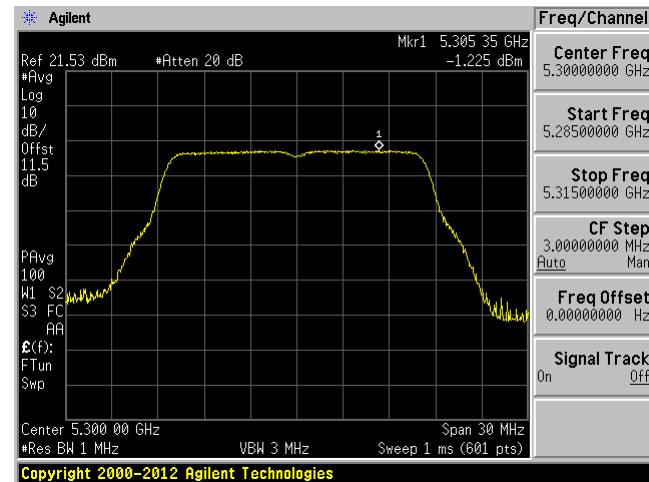
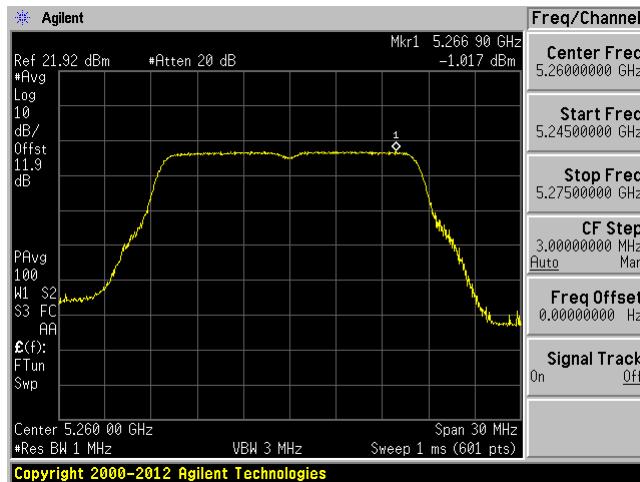
5320 MHz



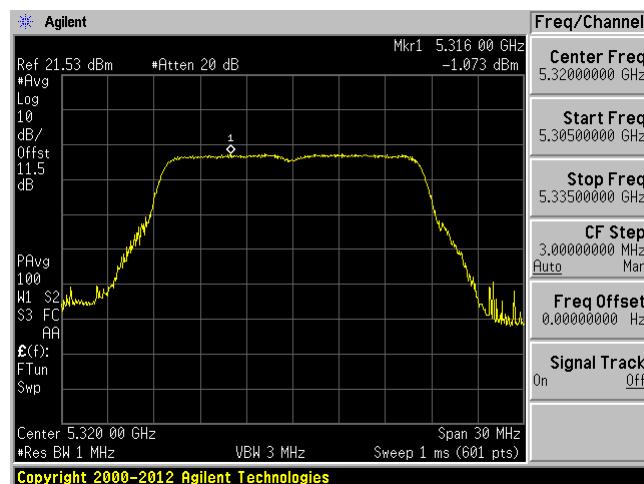
802.11a mode chain 2

5260 MHz

5300 MHz



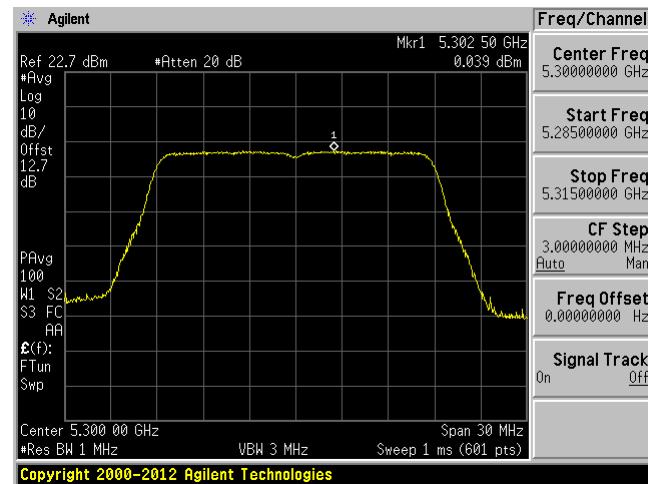
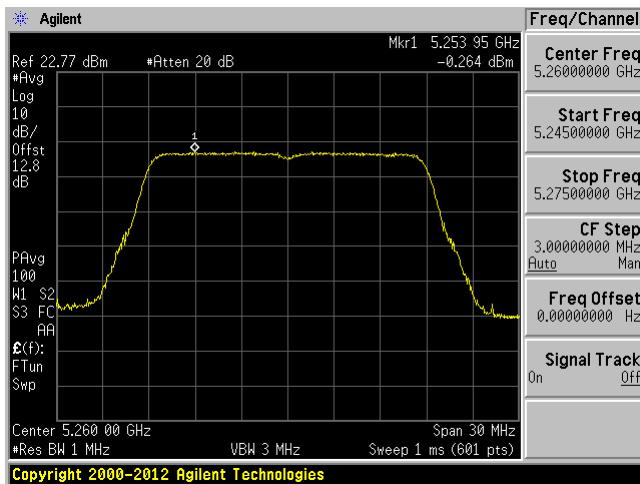
5320 MHz



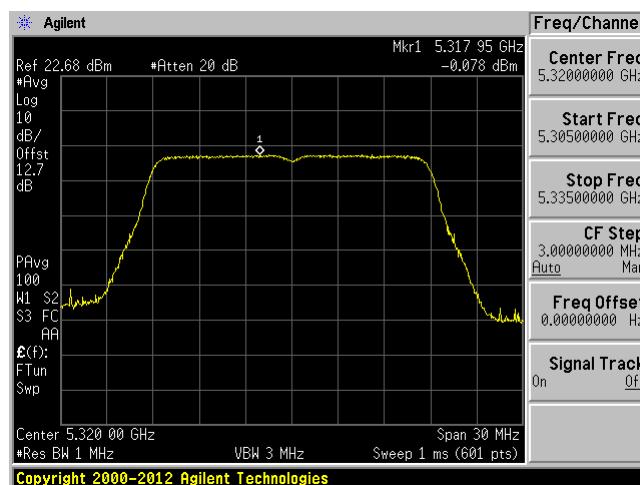
802.11n20 mode chain 1

5260 MHz

5300 MHz



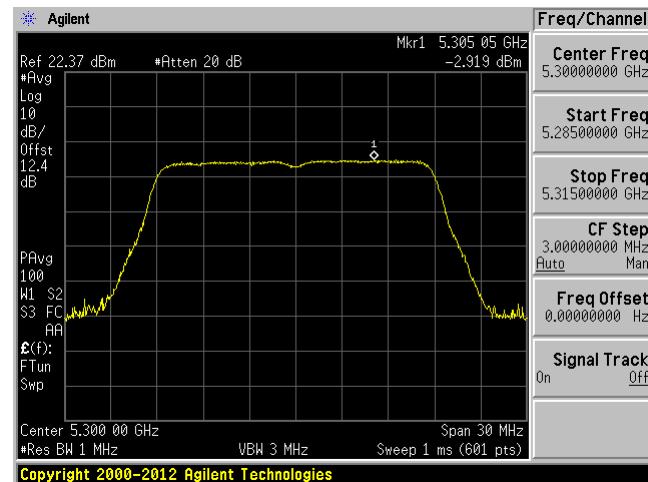
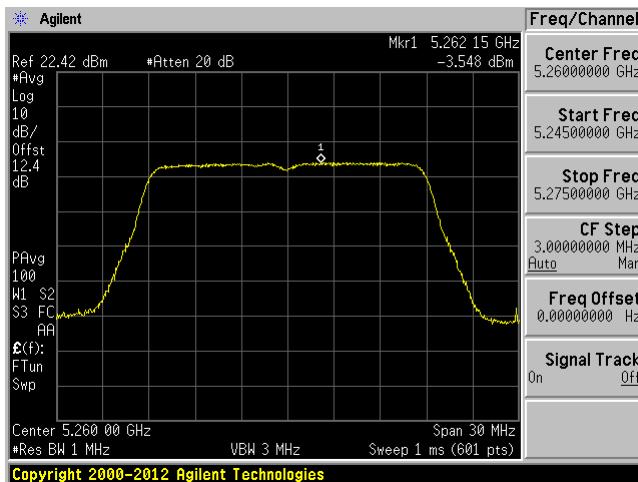
5320 MHz



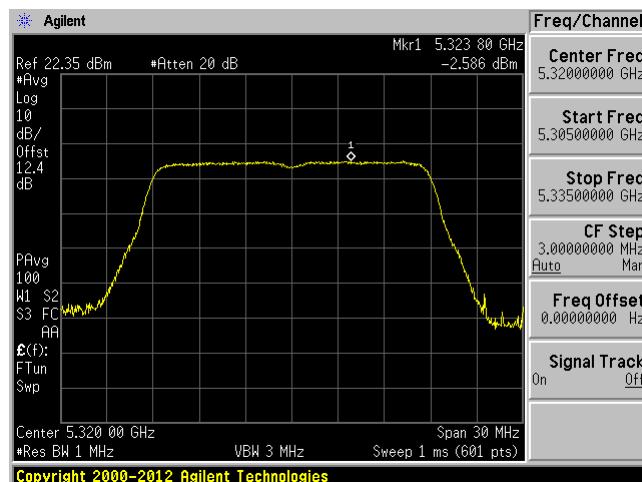
802.11n20 mode chain 2

5260 MHz

5300 MHz

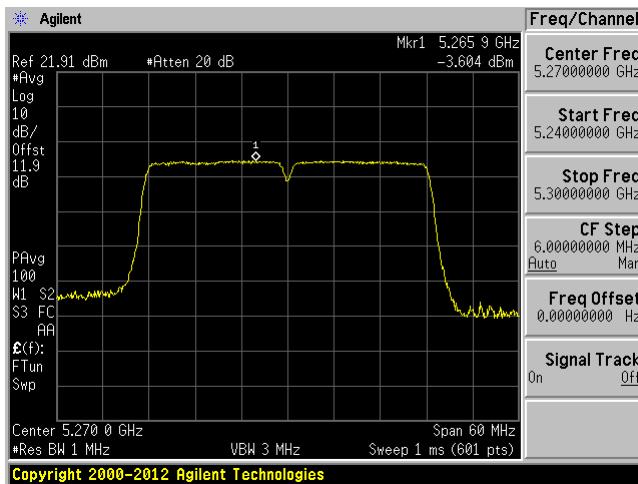


5320 MHz

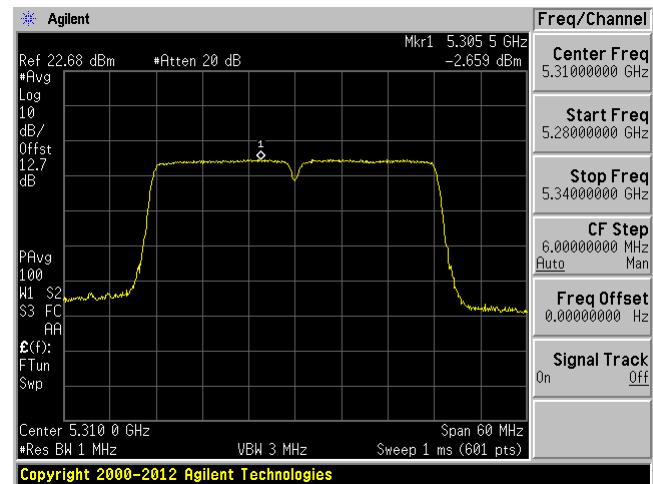


802.11n40 mode chain 1

5270 MHz

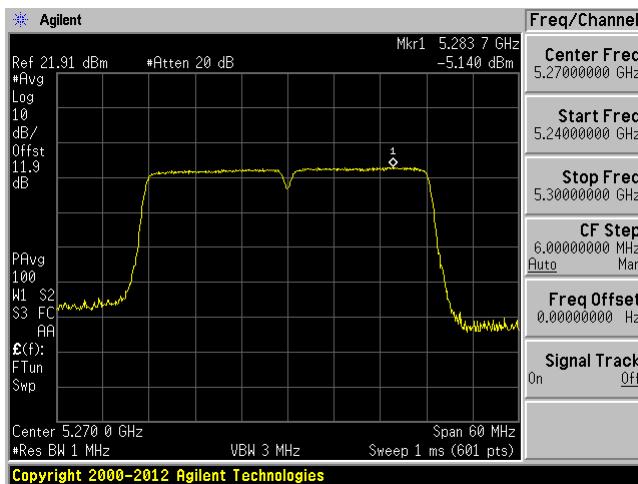


5310 MHz

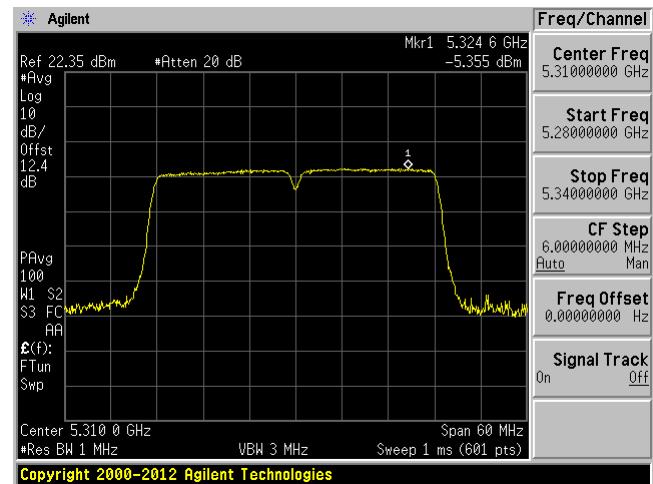


802.11n40 mode chain 2

5270 MHz

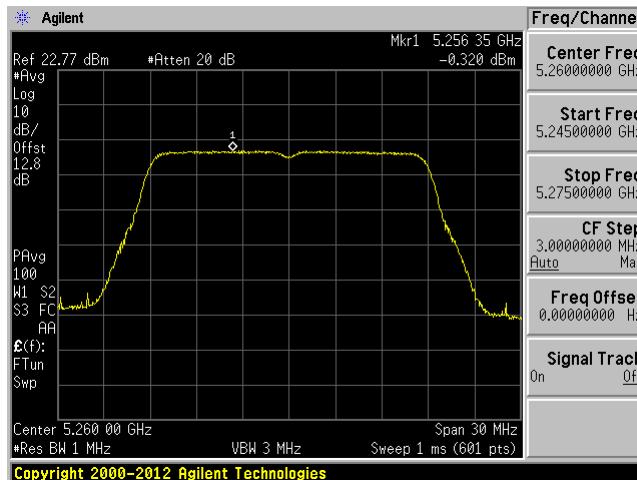


5310 MHz

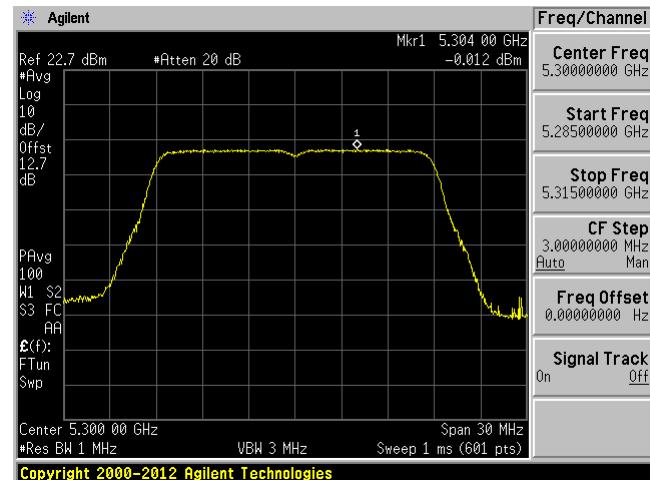


802.11ac20 mode chain 1

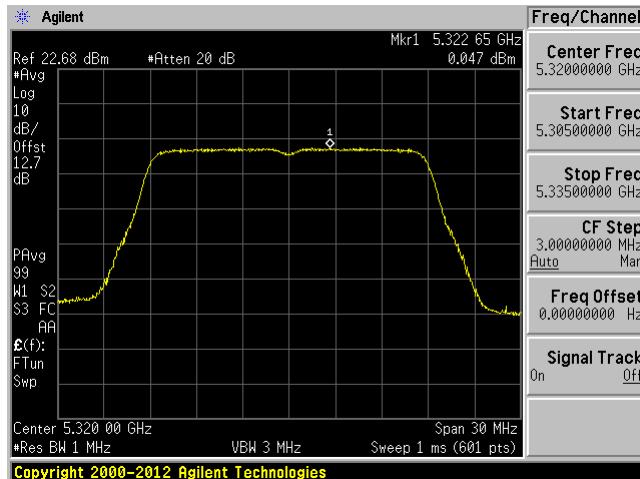
5260 MHz



5300 MHz



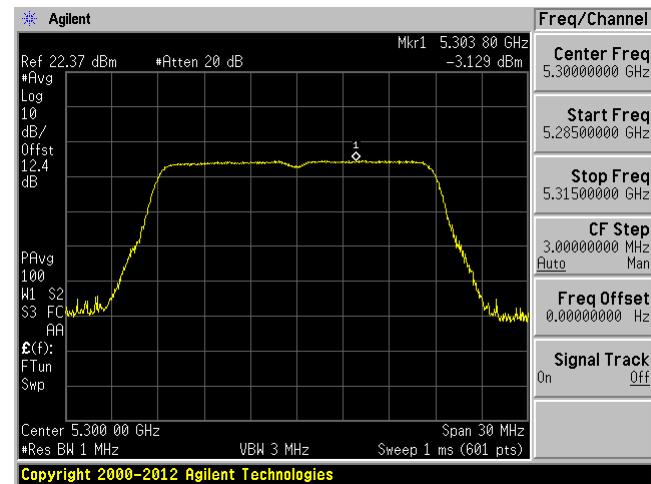
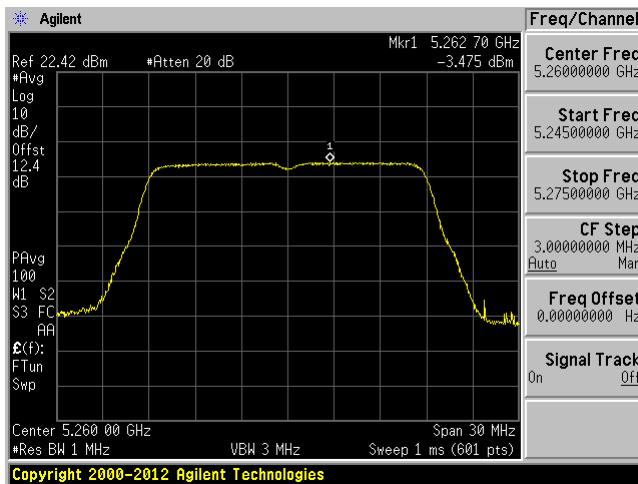
5320 MHz



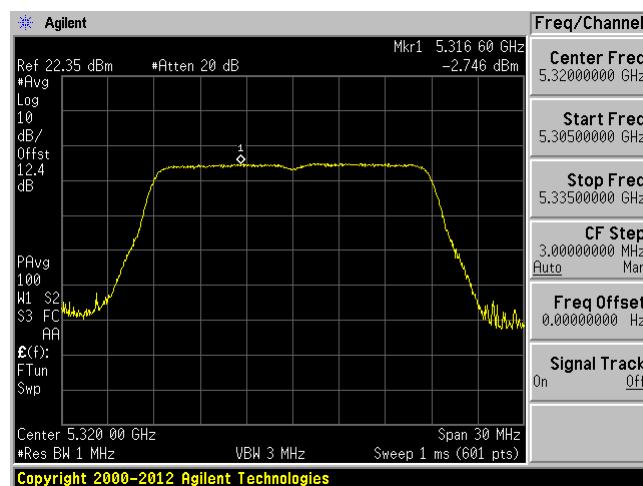
802.11ac20 mode chain 2

5260 MHz

5300 MHz



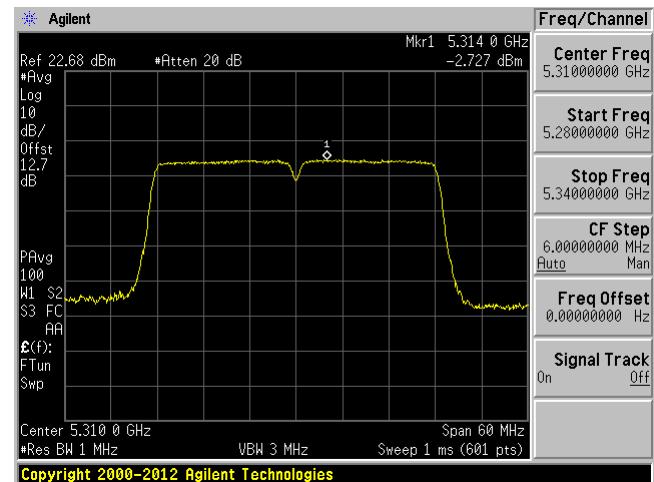
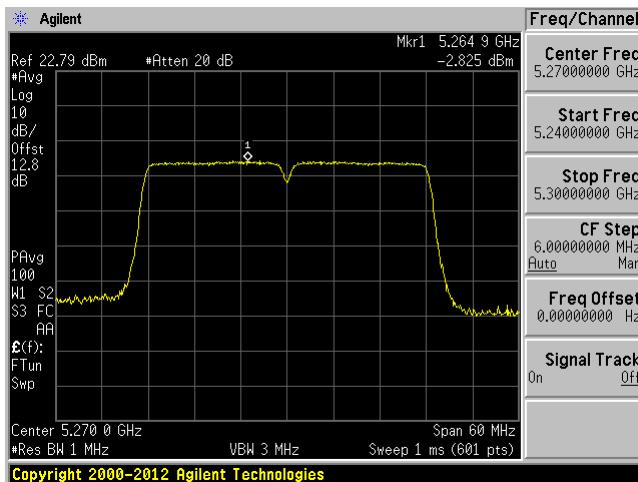
5320 MHz



802.11ac40 mode chain 1

5270 MHz

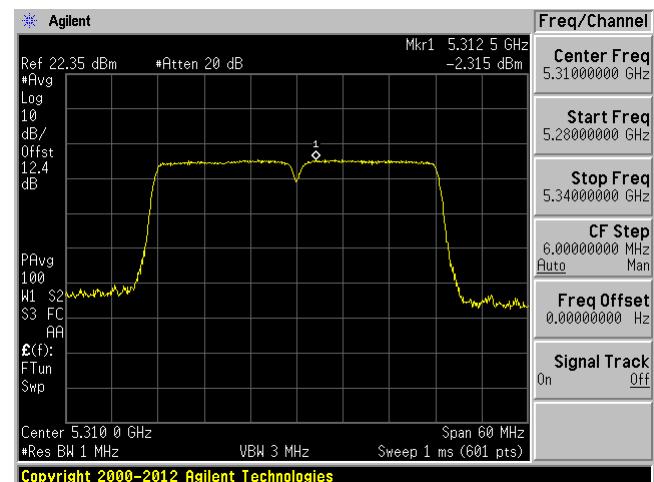
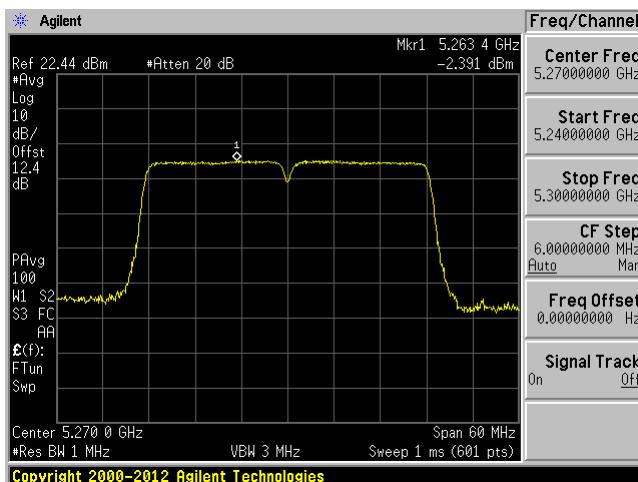
5310 MHz



802.11n40 mode chain 2

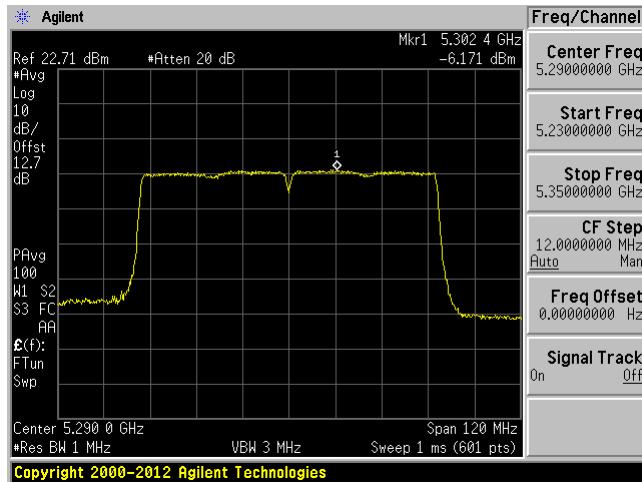
5270 MHz

5310 MHz

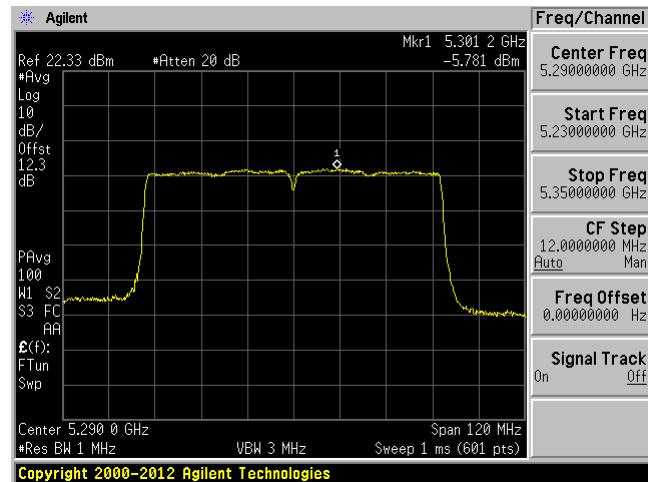


802.11ac80 mode

5290 MHz chain 1



5290 MHz chain 2

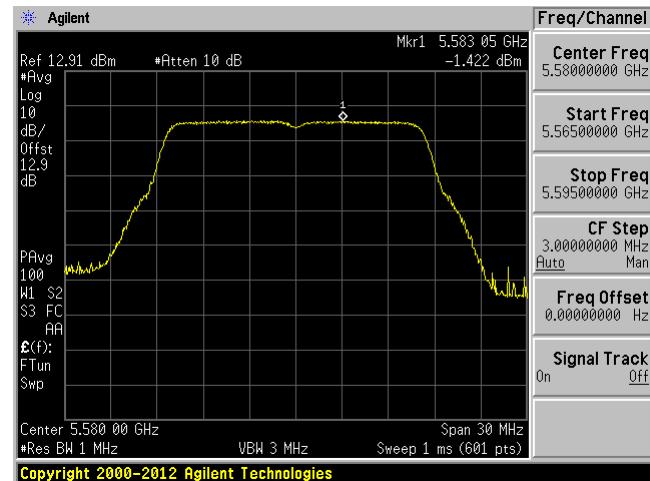
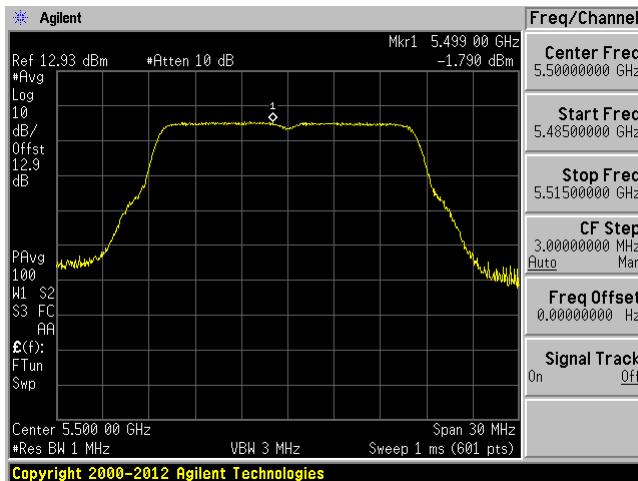


5470 – 5725 MHz

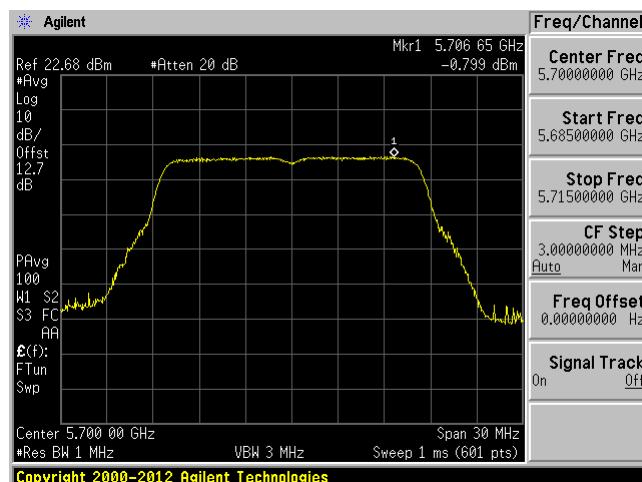
802.11a mode chain 1

5500 MHz

5580 MHz

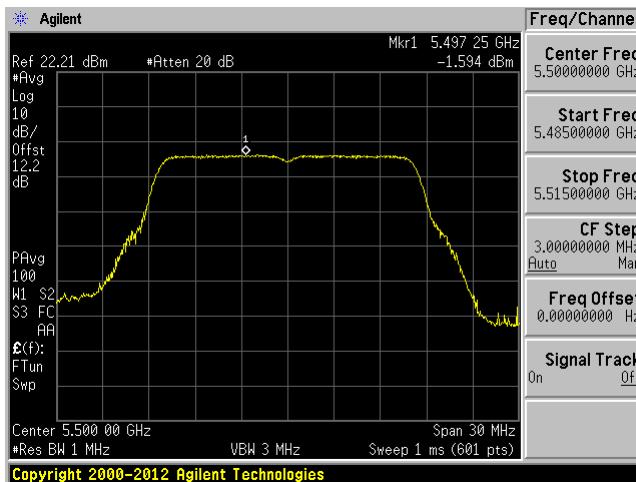


5700 MHz

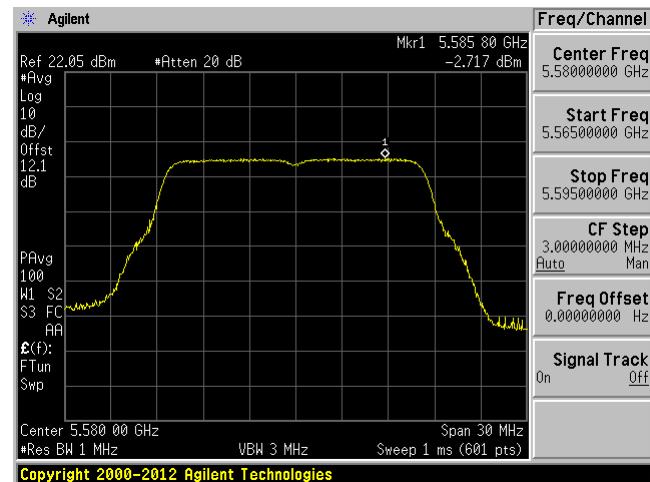


802.11a mode chain 2

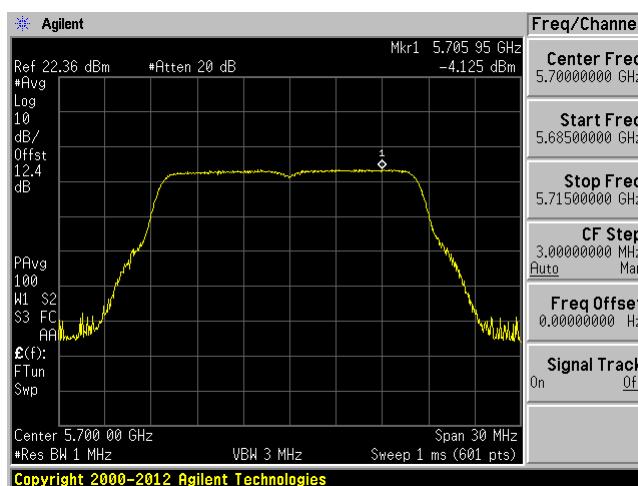
5500 MHz



5580 MHz



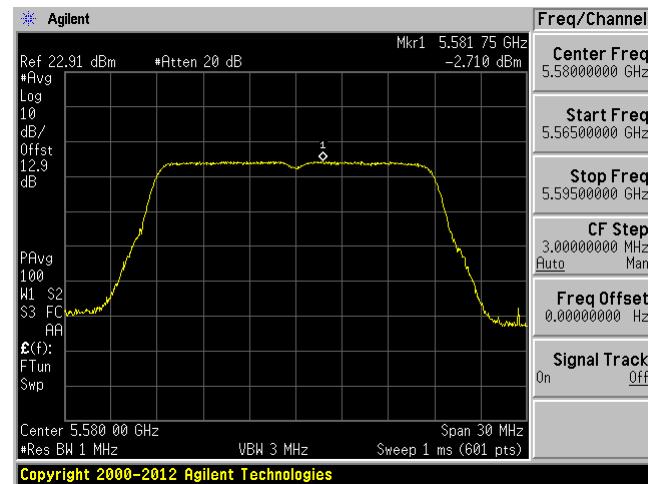
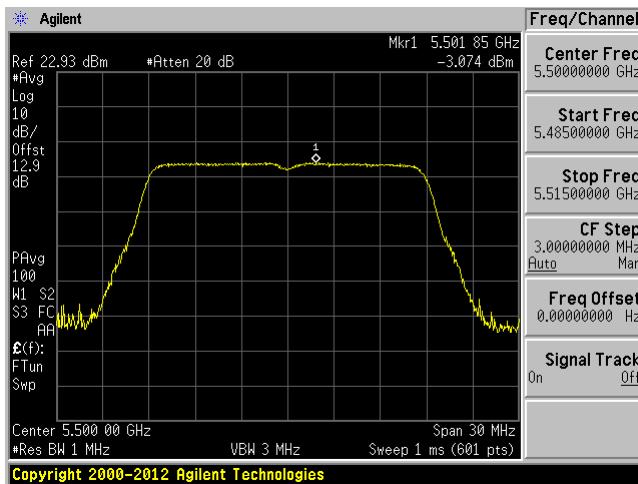
5700 MHz



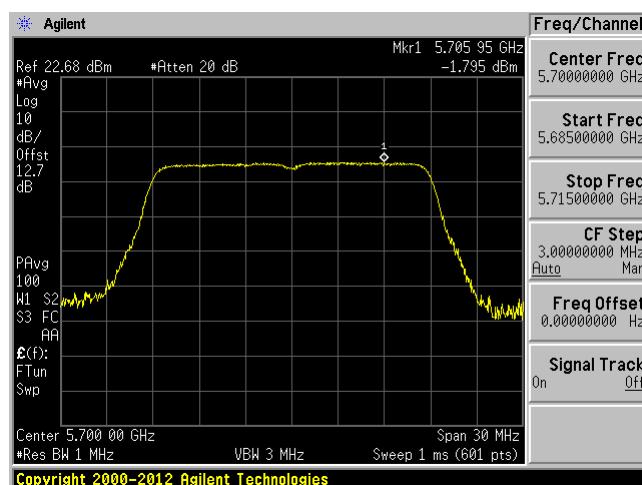
802.11n20 mode chain 1

5500 MHz

5580 MHz



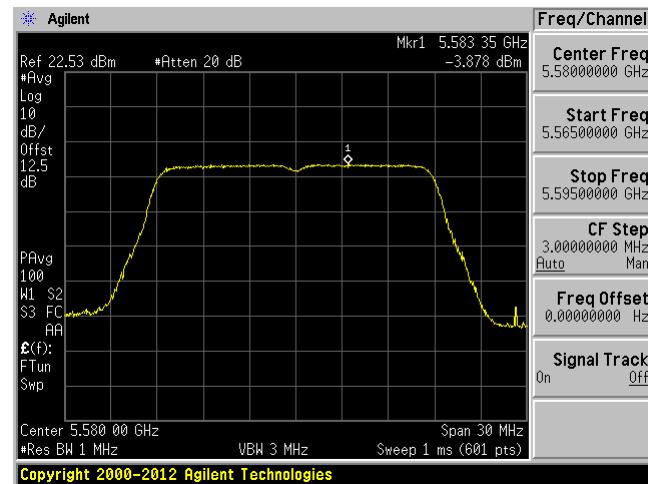
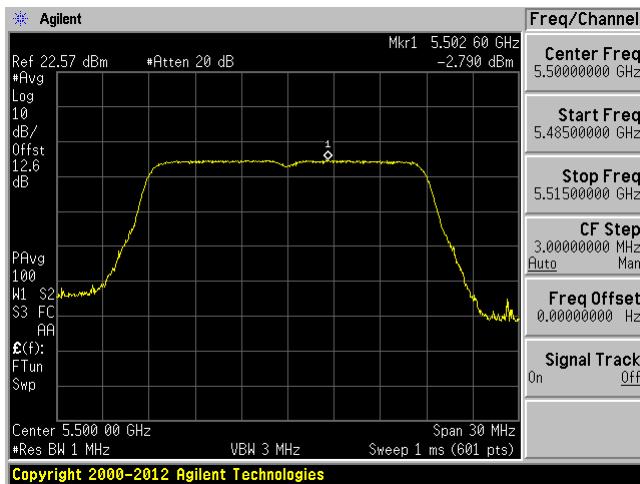
5700 MHz



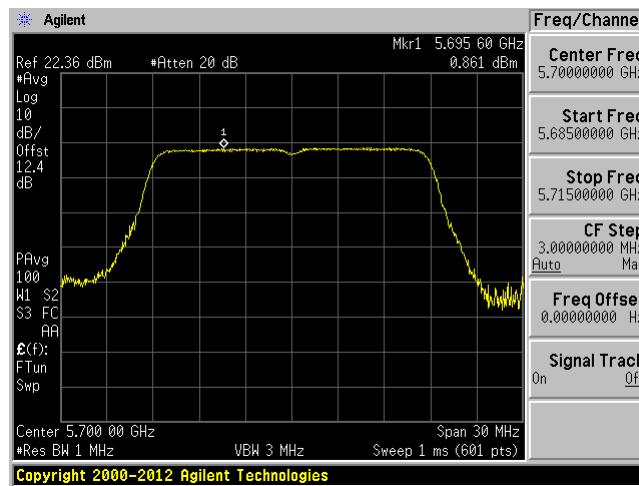
802.11n20 mode chain 2

5500 MHz

5580 MHz

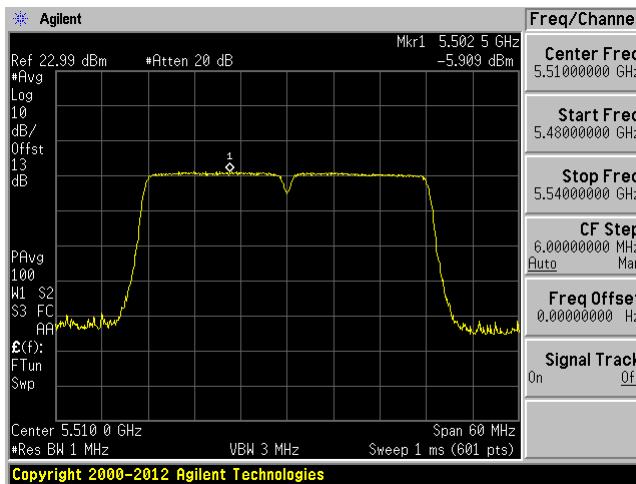


5700 MHz

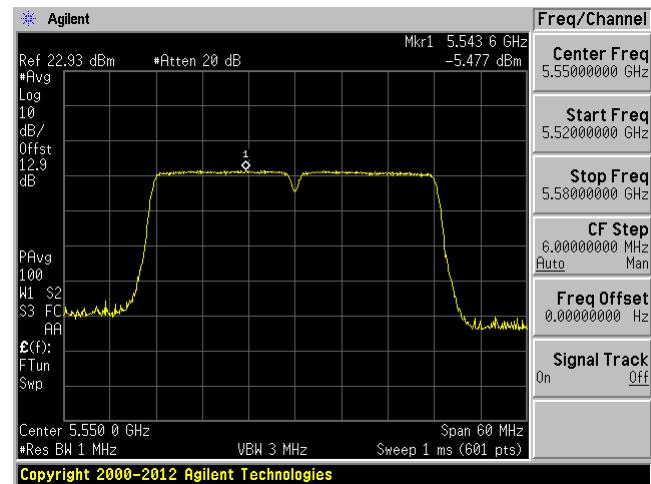


802.11n40 mode chain 1

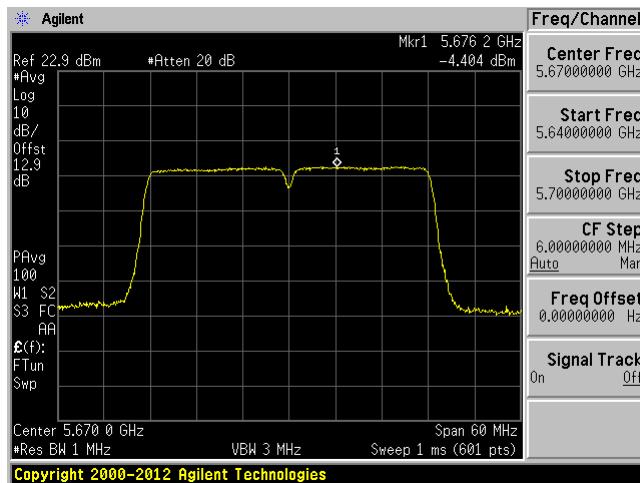
5510 MHz



5550 MHz

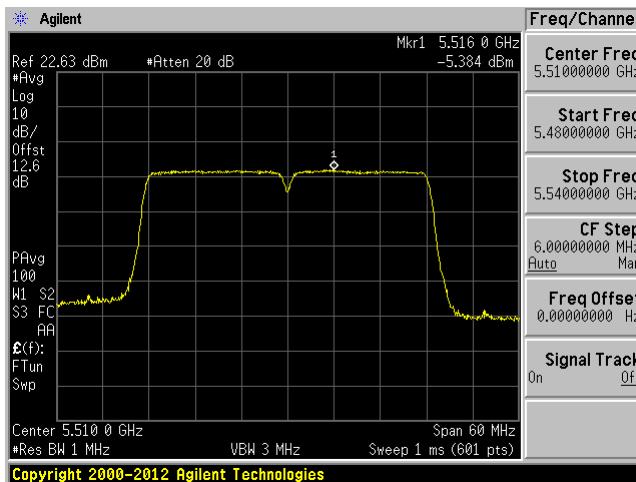


5670 MHz

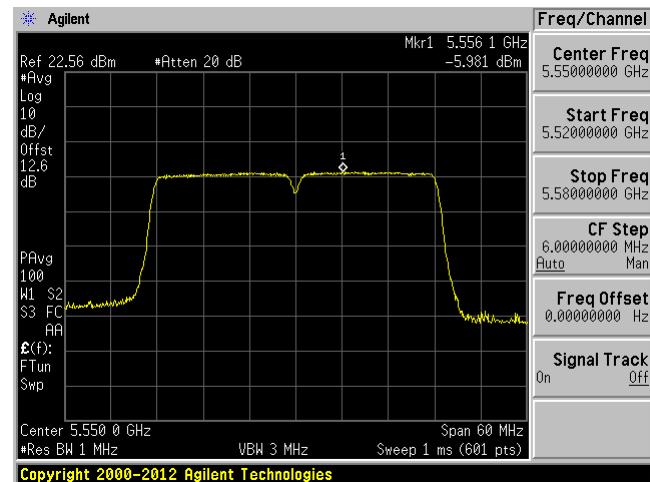


802.11n40 mode chain 2

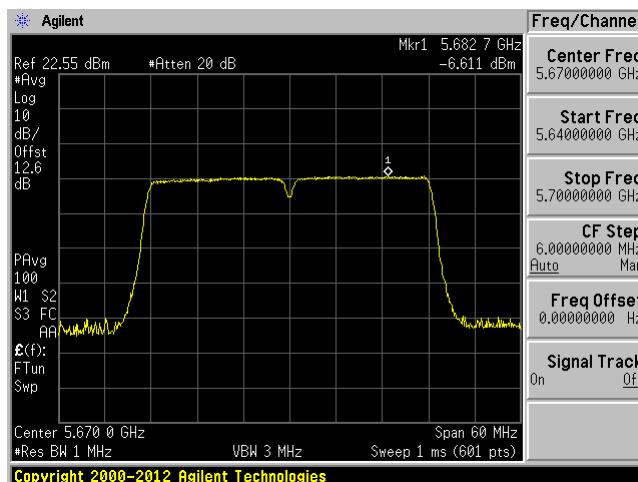
5510 MHz



5550 MHz

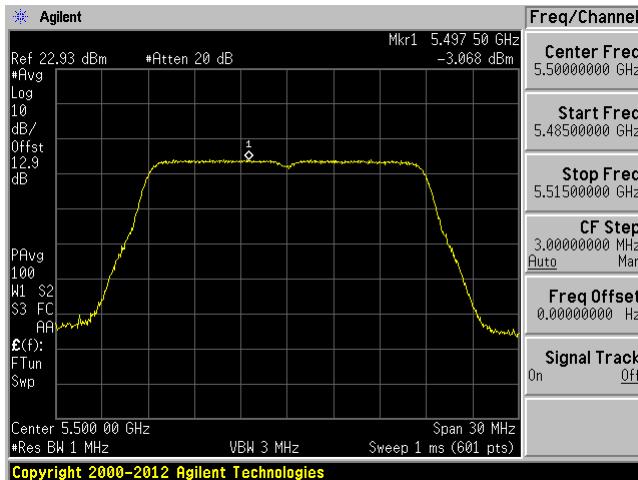


5670 MHz

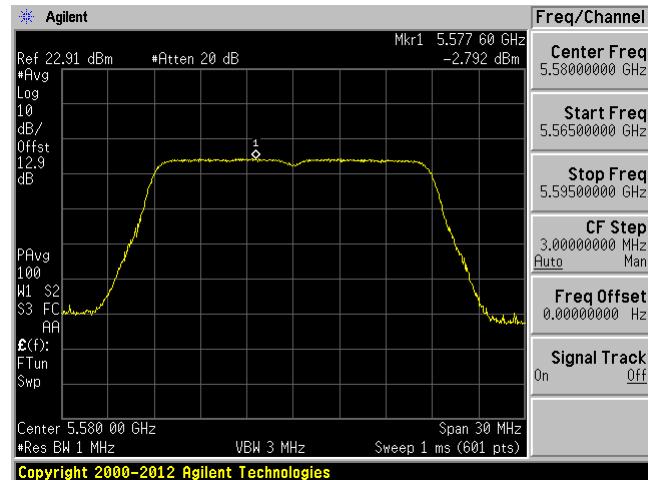


802.11ac20 mode chain 1

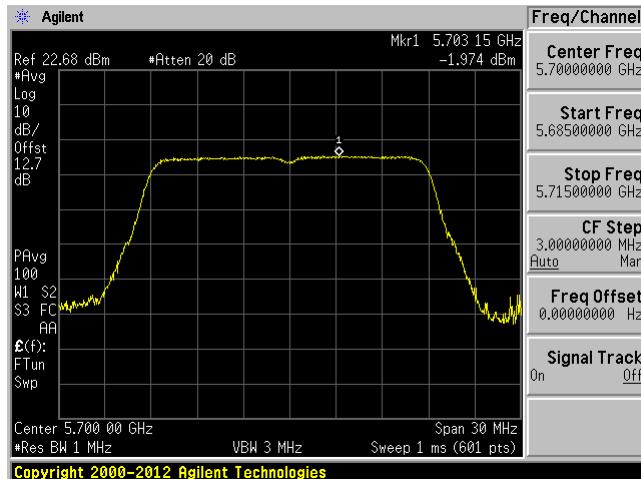
5500 MHz



5580 MHz

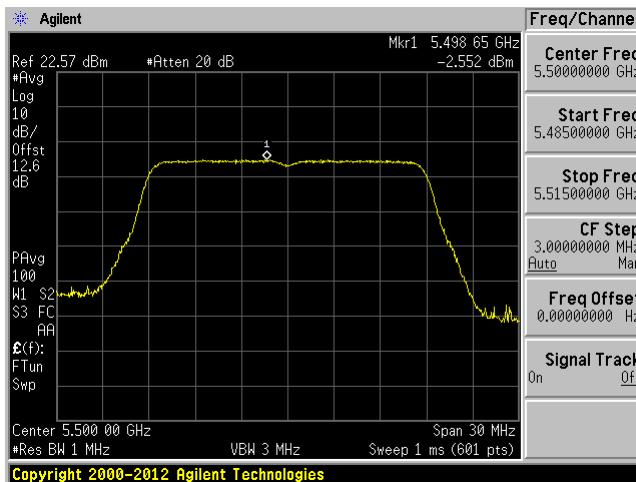


5700 MHz

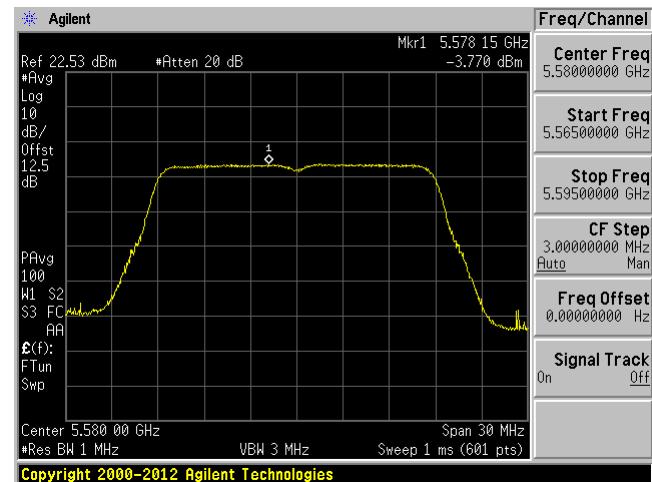


802.11ac20 mode chain 2

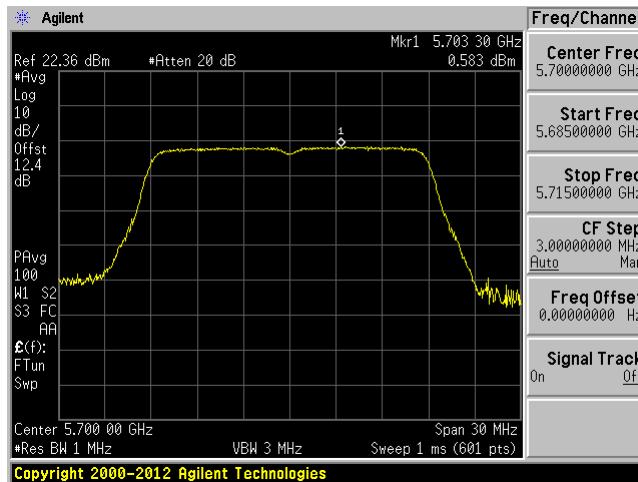
5500 MHz



5580 MHz

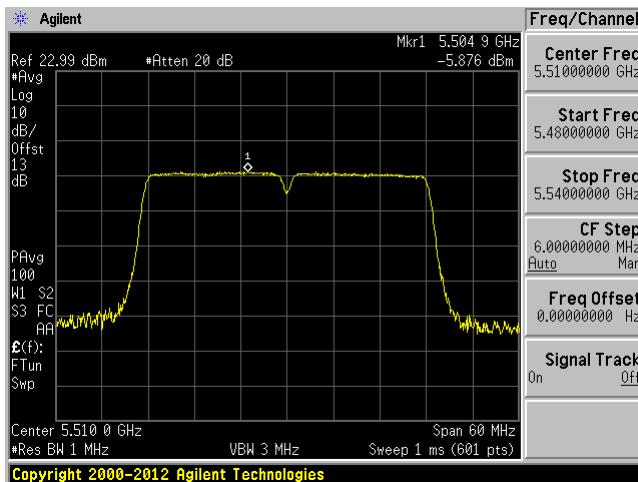


5700 MHz

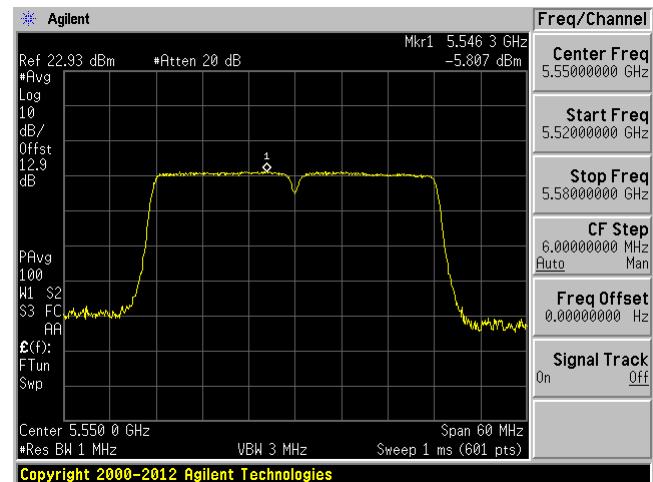


802.11ac40 mode chain 1

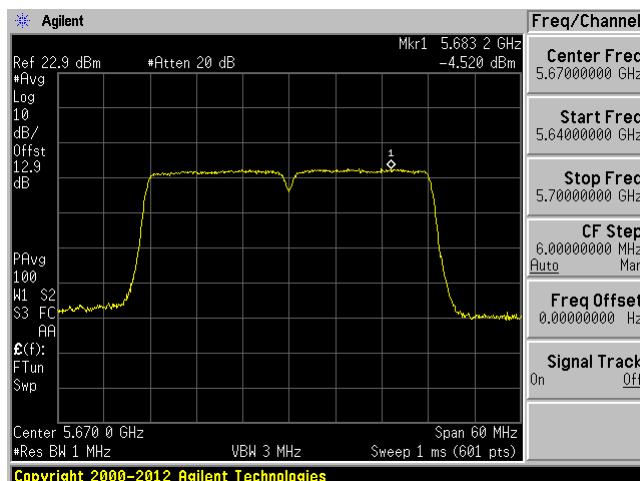
5510 MHz



5550 MHz

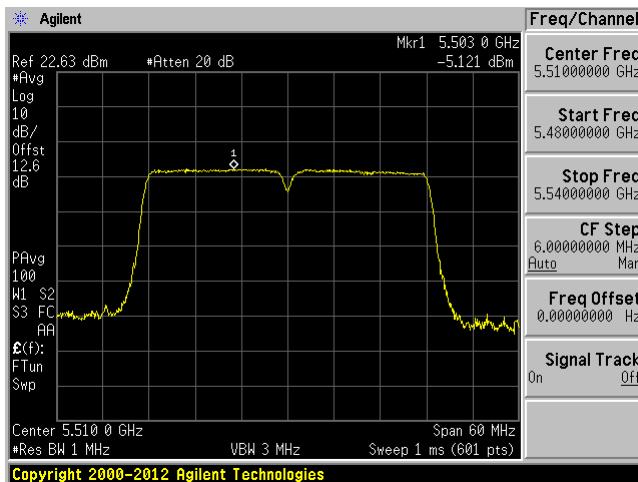


5670 MHz

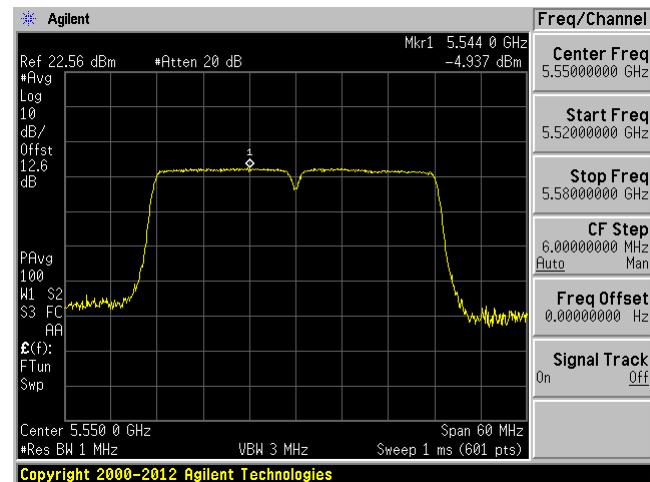


802.11ac40 mode chain 2

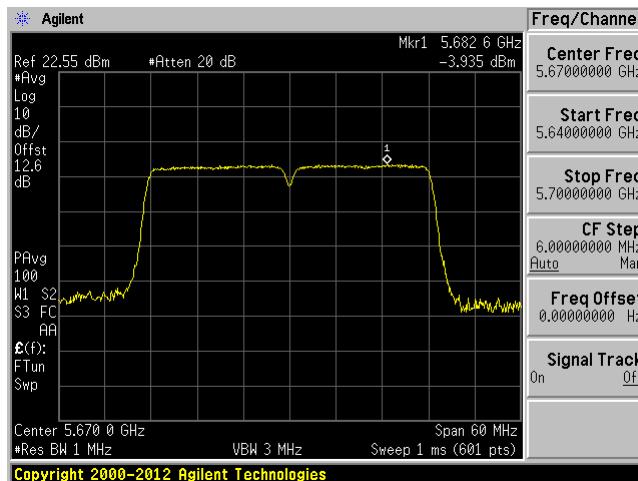
5510 MHz



5550 MHz



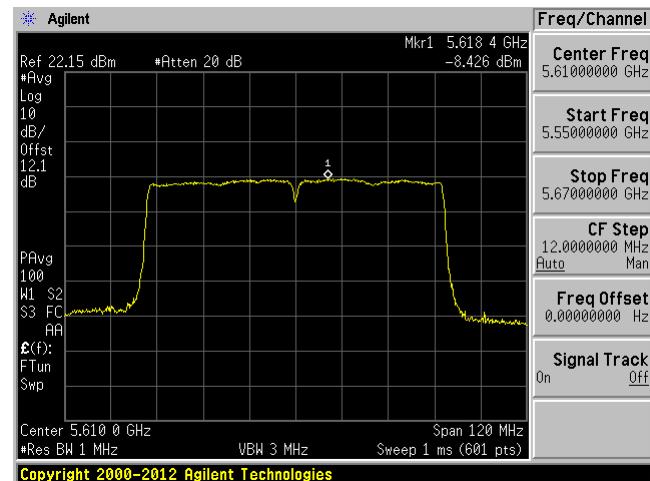
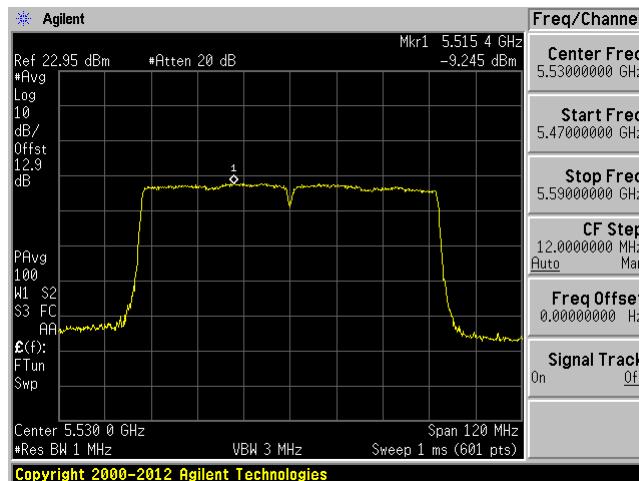
5670 MHz



802.11ac80 mode chain 1

5530 MHz

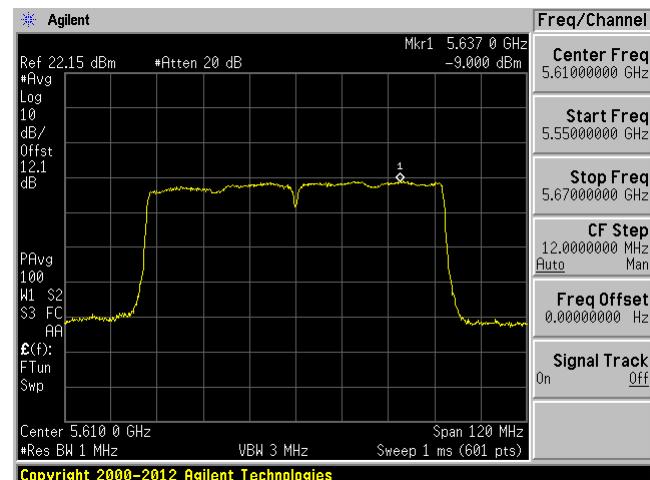
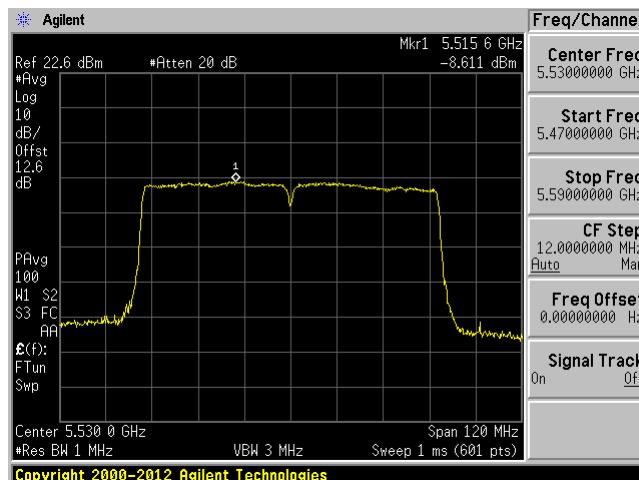
5610 MHz



802.11ac80 mode chain 2

5530 MHz

5610 MHz

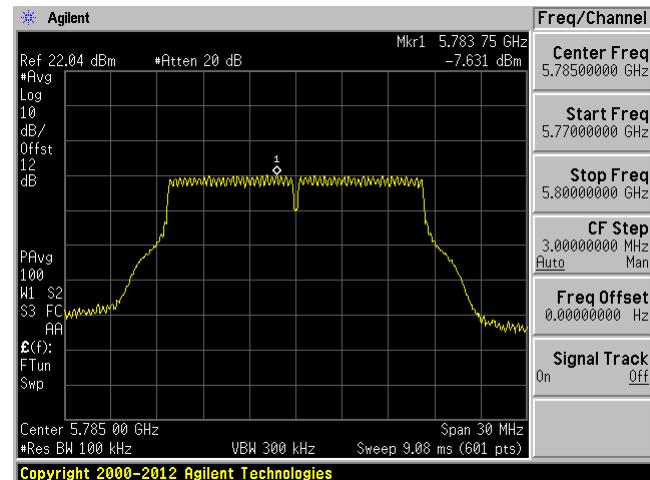
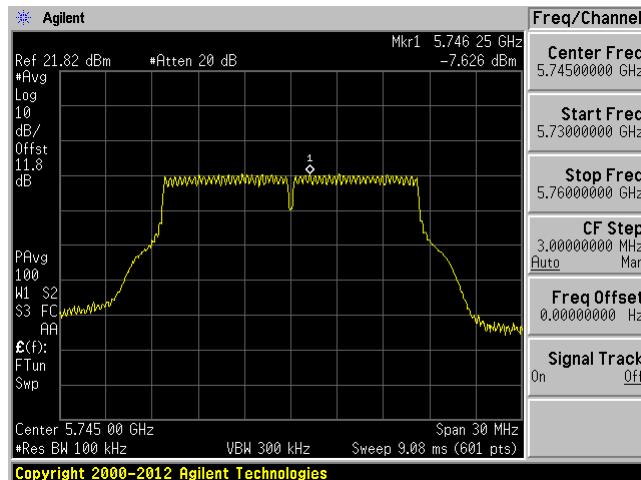


5725 – 5850 MHz

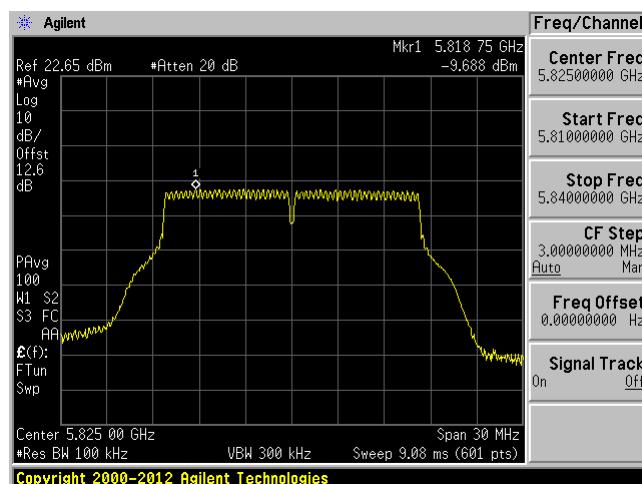
802.11a mode chain 1

5745 MHz

5785 MHz



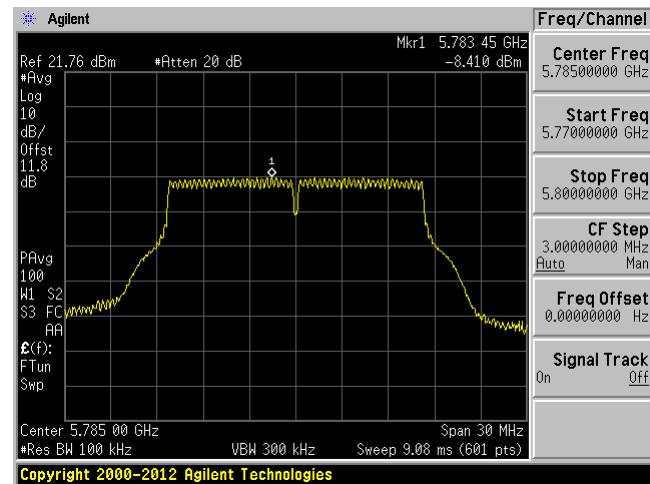
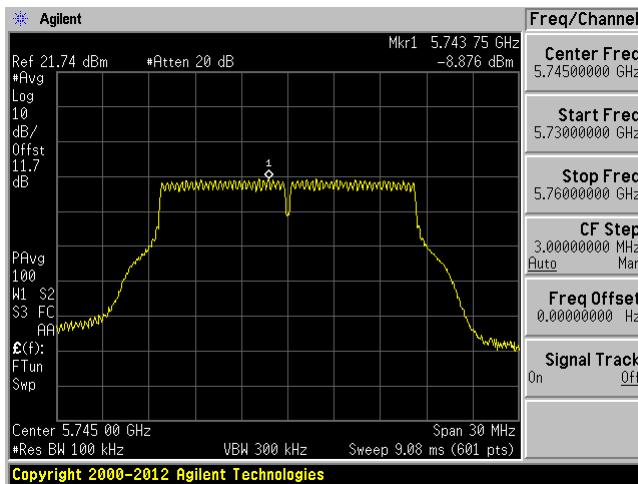
5825 MHz



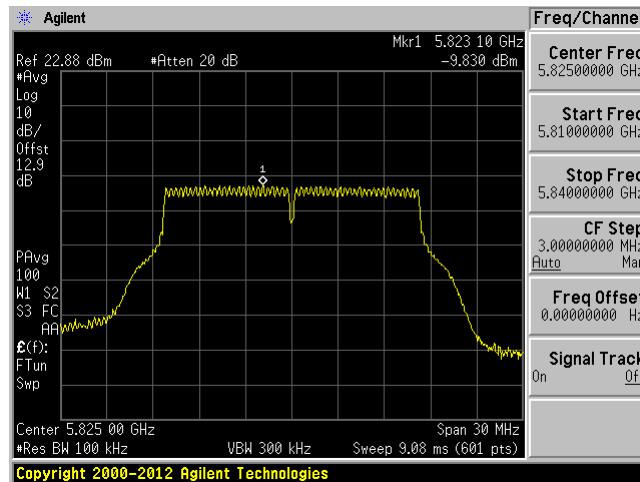
802.11a mode chain 2

57450 MHz

5785 MHz

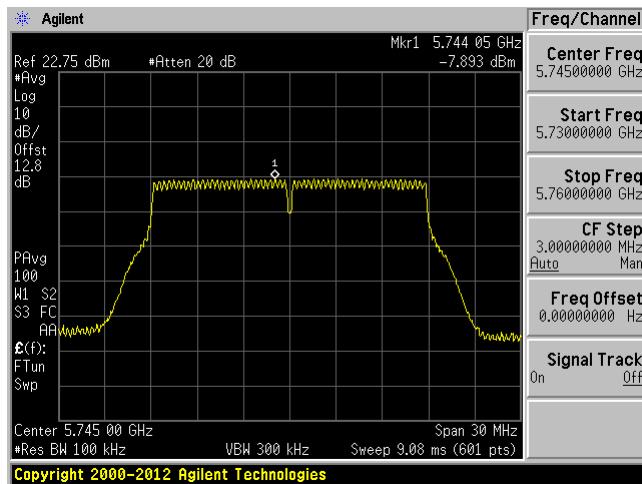


5825 MHz

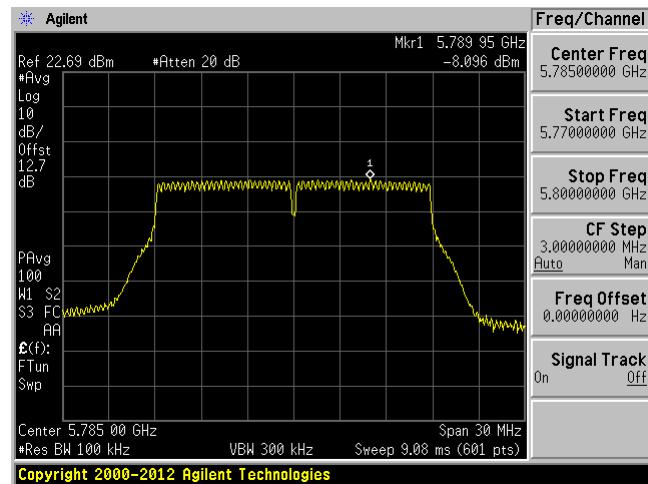


802.11n20 mode chain 1

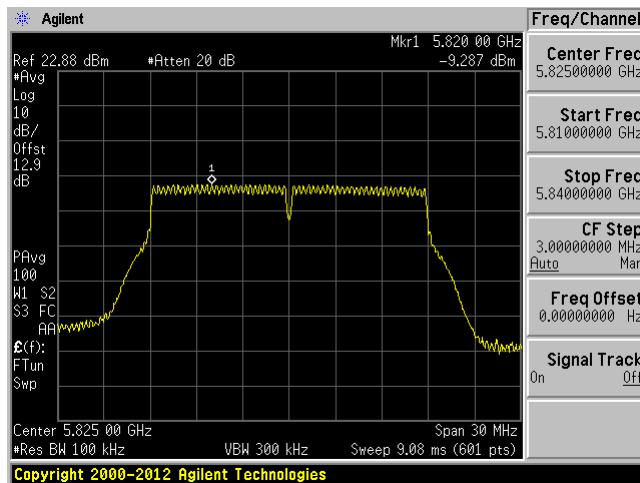
5745 MHz



5785 MHz

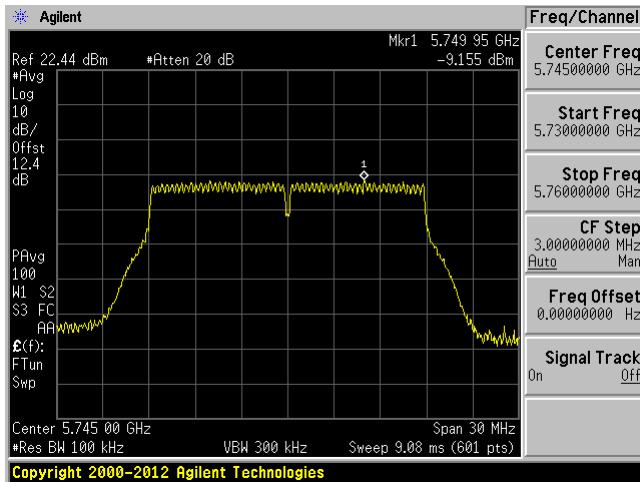


5825 MHz

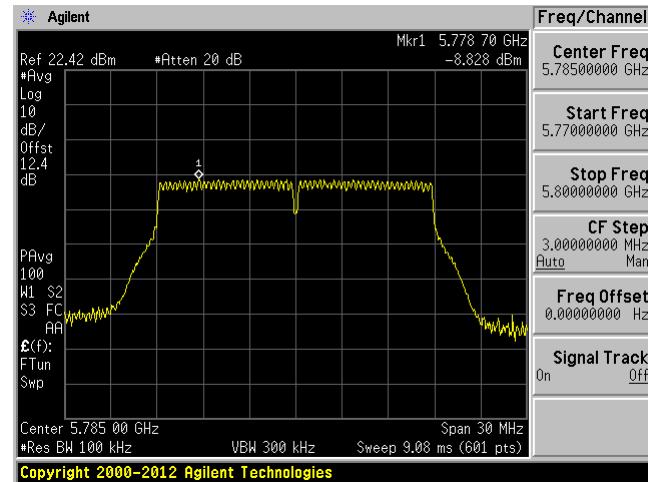


802.11n20 mode chain 2

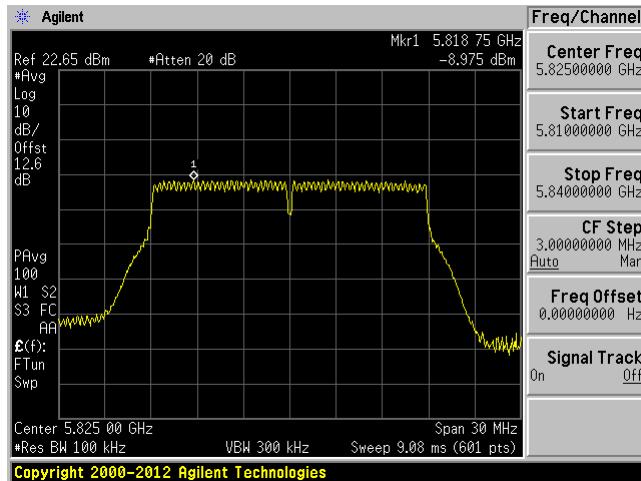
5745 MHz



5785 MHz



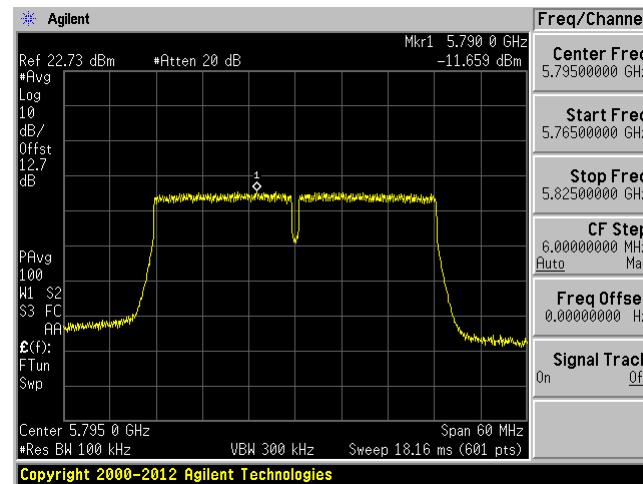
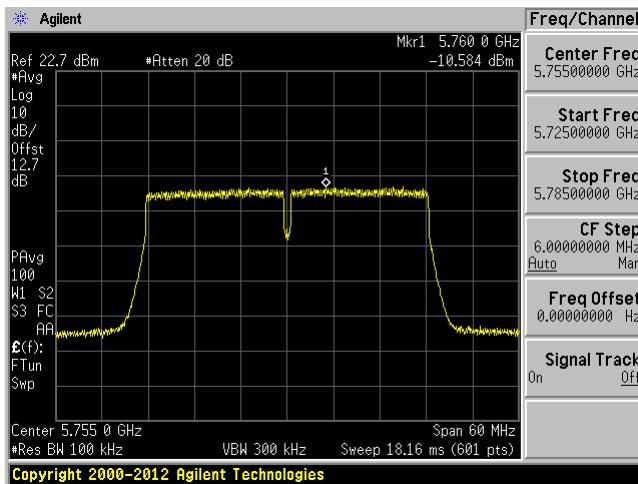
5825 MHz



802.11n40 mode chain 1

5755 MHz

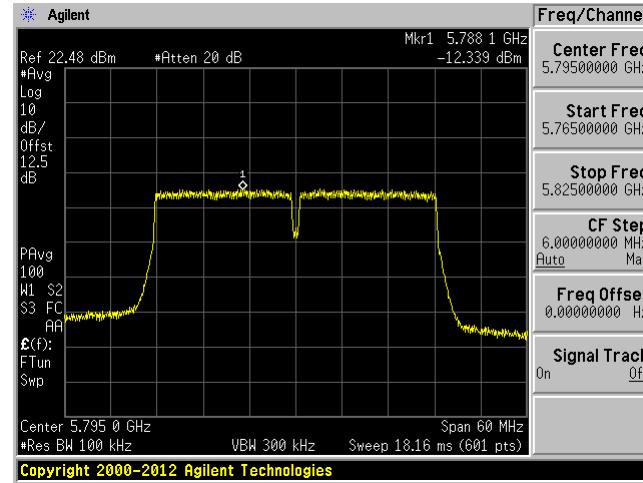
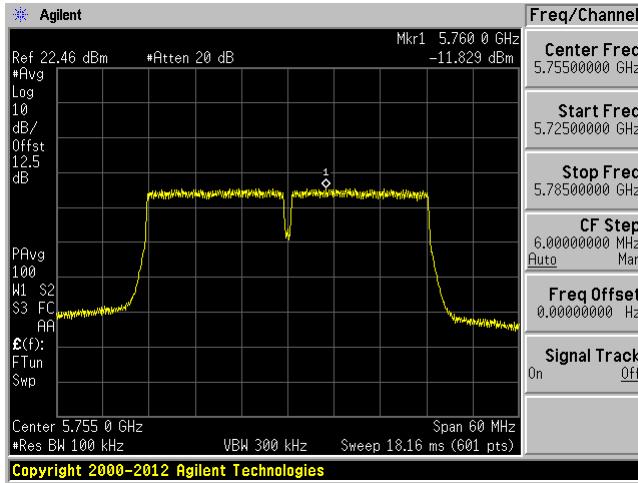
5795 MHz



802.11n40 mode chain 2

5755 MHz

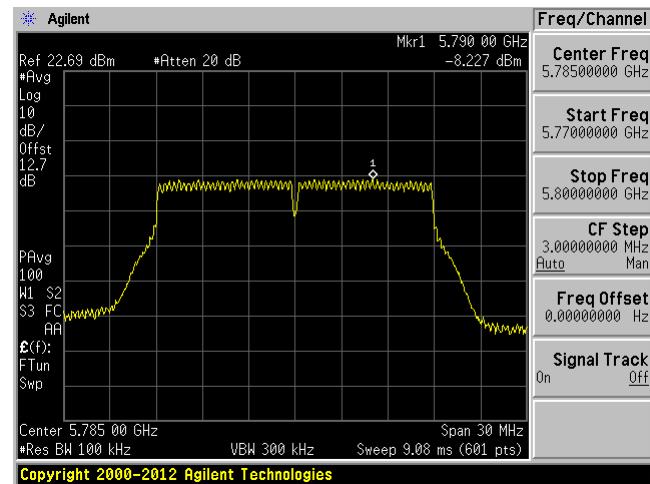
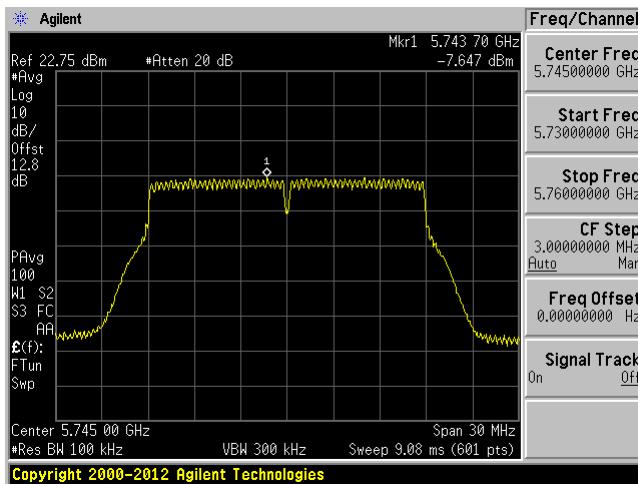
5795 MHz



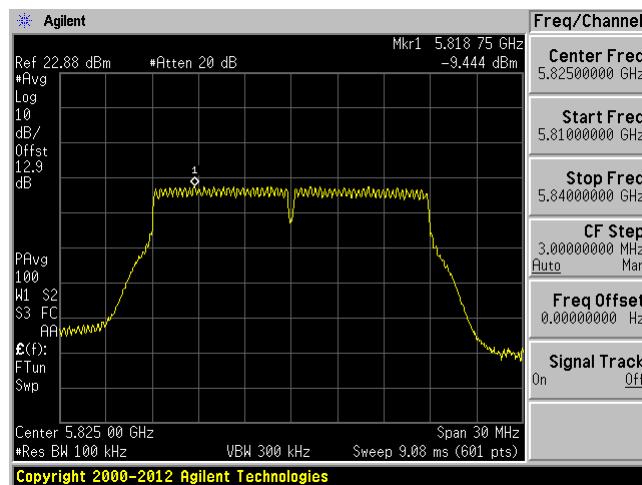
802.11ac20 mode chain 1

5745 MHz

5785 MHz



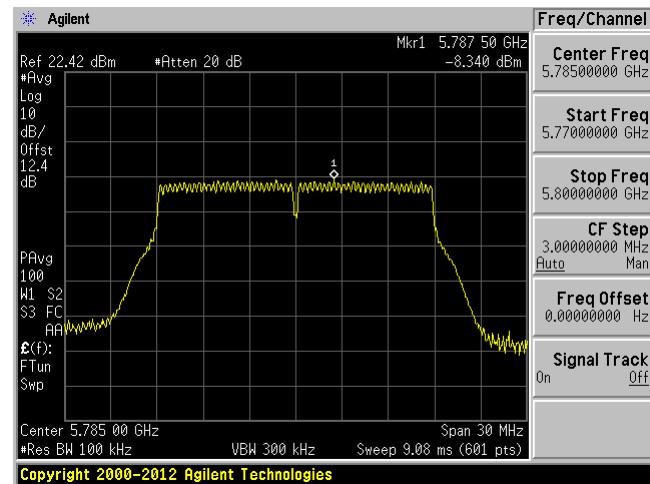
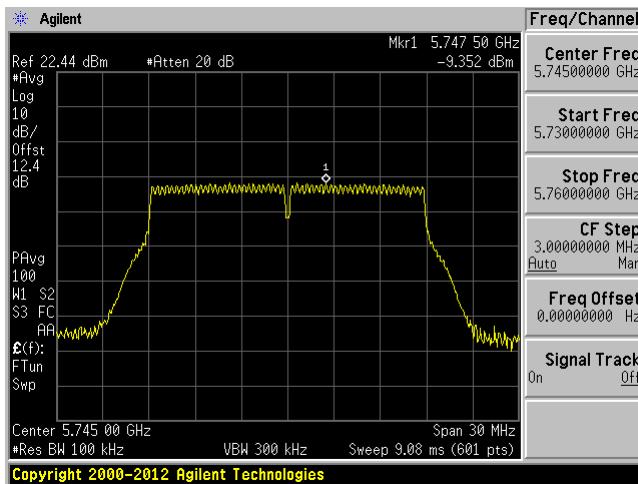
5825 MHz



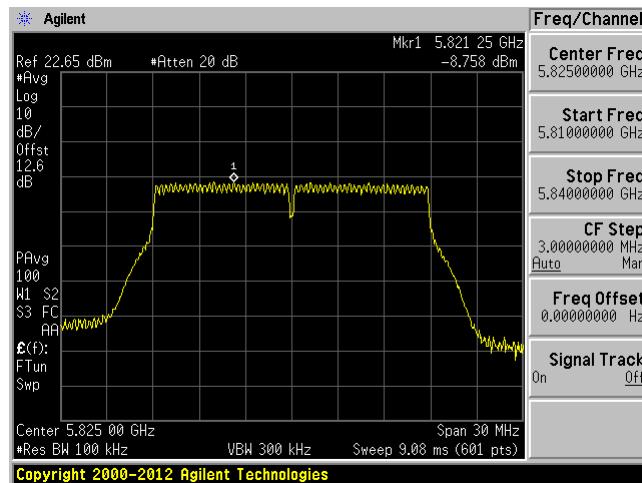
802.11ac20 mode chain 2

5745 MHz

5785 MHz



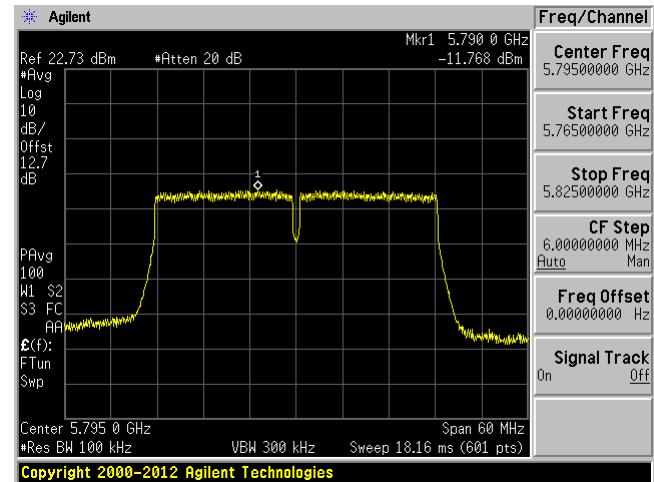
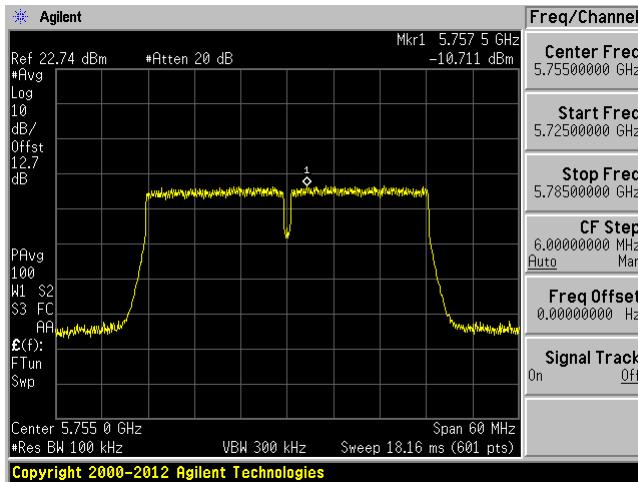
5825 MHz



802.11ac40 mode chain 1

5755 MHz

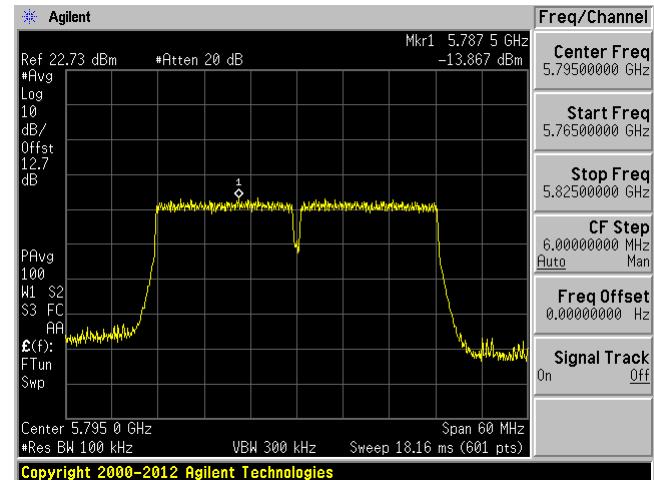
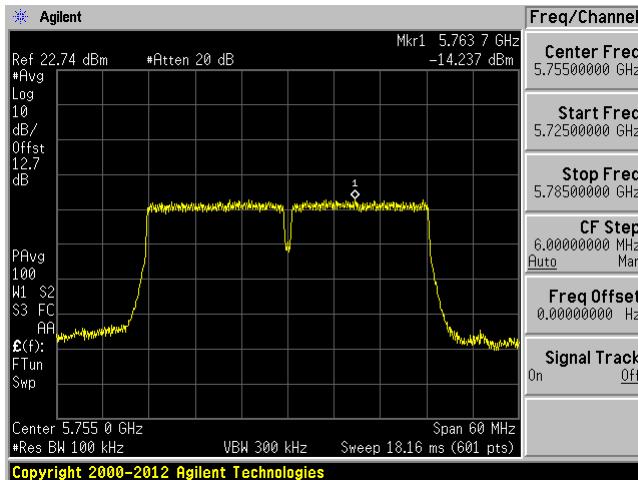
5795 MHz



802.11ac40 mode chain 2

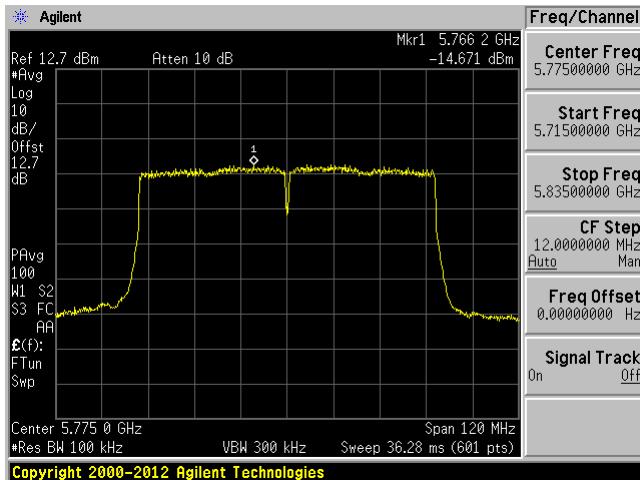
5755 MHz

5795 MHz

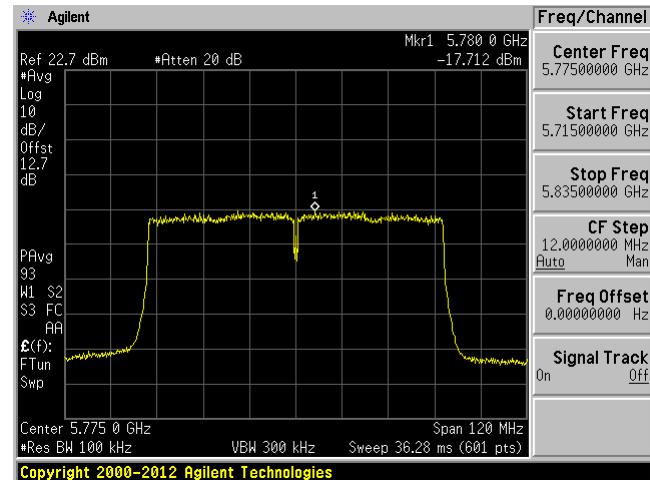


802.11ac80 mode

5775 MHz chain 1



5775 MHz chain 2



11 §15.407(b) & IC RSS-247 §6.2 - Out of Band Emissions

11.1 Applicable Standards

According to FCC §15.407(b):

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.

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

According to IC RSS-247 §6.2.1 for devices operating in the frequency band 5150-5250 MHz:

For transmitters operating in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. However, any unwanted emissions that fall into the band 5250-5350 MHz must be 26 dBc, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth, above 5.25 GHz. Otherwise, the transmission is considered as intentional and the devices shall implement dynamic frequency selection (DFS) and transmitter power control (TPC) as per the requirements for the band 5250-5350 MHz.

According to IC RSS-247 §6.2.2 for devices operating in the frequency band 5250-5350 MHz:

For devices with both operating frequencies and channel bandwidths contained within the band 5250-5350 MHz, the device shall comply with the following:

1. All emissions outside the band 5250-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. if the equipment is intended for outdoor use; or
2. All emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. and any emissions within the band 5150-5250 MHz shall meet the power spectral density limits of Section 6.2.1. The device shall be labelled “for indoor use only.”

For devices with operating frequencies in the band 5250-5350 MHz but having a channel bandwidth that overlaps the band 5150-5250 MHz, the devices’ unwanted emission shall not exceed -27 dBm/MHz e.i.r.p. outside the band 5150-5350 MHz and its power shall comply with the spectral power density for operation within the band 5150-5250 MHz. The device shall be labelled “for indoor use only.”

According to IC RSS-247 §6.2.3 for devices operating in the frequency band 5470-5600 MHz and 5650-5725 MHz. Emissions outside the band 5470-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p.

According to IC RSS-247 §6.2.4 for devices operating in the frequency band 5725-5850 MHz:
 For the band 5725-5850 MHz, emissions at frequencies from the band edges to 10 MHz above or below the band edges shall not exceed -17 dBm/MHz e.i.r.p.
 For emissions at frequencies more than 10 MHz above or below the band edges, the emissions power shall not exceed -27 dBm/MHz.

11.2 Measurement Procedure

Add a correction factor (antenna gain+ Attenuator loss+cable loss) to the offset of the spectrum analyzer.
 Integration Method

1. For peak emissions measurements, follow the procedures described in section H)5), “Procedures for Peak Unwanted Emissions Measurements above 1000 MHz”, except for the following changes:
 - Set RBW = 100 kHz
 - Set VBW = 3RBW
 - Perform a band-power integration across the 1 MHz bandwidth in which the band-edge emission level is to be measured. CAUTION: You must ensure that the spectrum analyzer or EMI receiver is set for peak-detection and max-hold for this measurement.
2. For average emissions measurements, follow the procedures described in section H)6), “Procedures for Average Unwanted Emissions Measurements above 1000 MHz”, except for the following changes:
 - Set RBW = 100 kHz
 - Set VBW = 3RBW
 - Perform a band-power integration across the 1 MHz bandwidth in which the band-edge emission level is to be measured.

11.3 Test Equipment List and Details

| Manufacturer | Description | Model No. | Serial No. | Calibration Date | Calibration Interval |
|--------------|----------------------|-----------|------------|------------------------|----------------------|
| Agilent | Analyzer, Spectrum | E4440A | MY44303352 | 2015-06-22 | 1 year |
| - | U. FL to SMA pigtail | - | - | Each time ¹ | N/A |
| - | 10dB attenuator | - | - | Each time ¹ | N/A |

Note¹: cable and attenuator included in the test set-up will be checked each time before testing.

Statement of Traceability: BACL Corp. attests that all calibrations have been performed per the A2LA requirements, traceable to the NIST.

11.4 Test Environmental Conditions

| | |
|--------------------|-----------------|
| Temperature: | 22-24° C |
| Relative Humidity: | 40-41 % |
| ATM Pressure: | 103.1-104.1 kPa |

The testing was performed by Todd Moy on 2016-01-05 and 2016-05-03 at RF site.

11.5 Test Results

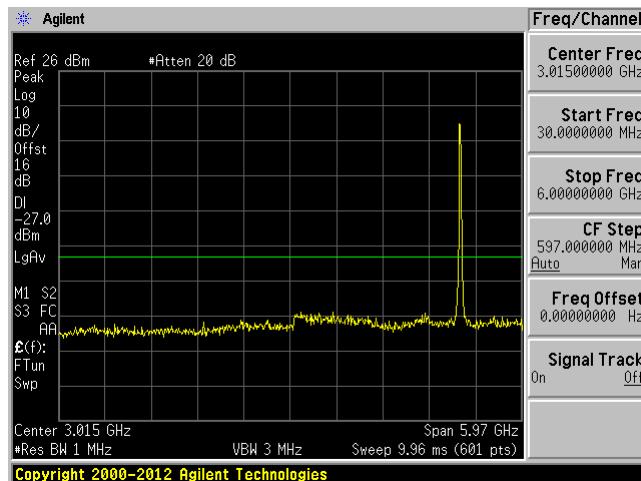
Please refer to the following plots

(1) Out-of-band spurious emission

5150 - 5250 MHz

802.11a mode chain 1

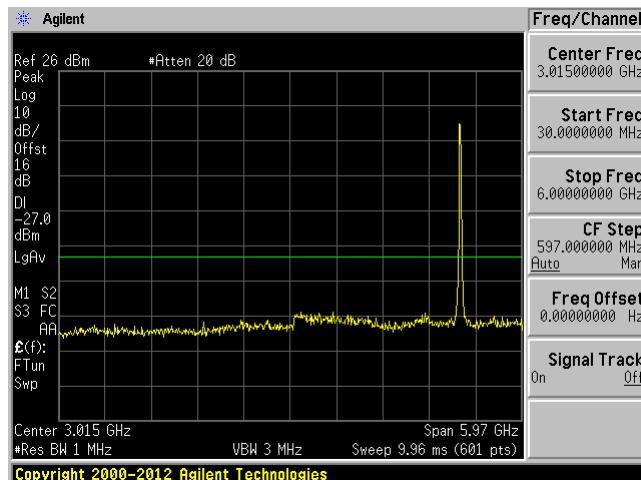
Low Channel 5180MHz (30MHz-6GHz)



Low Channel 5180 MHz (6-40GHz)



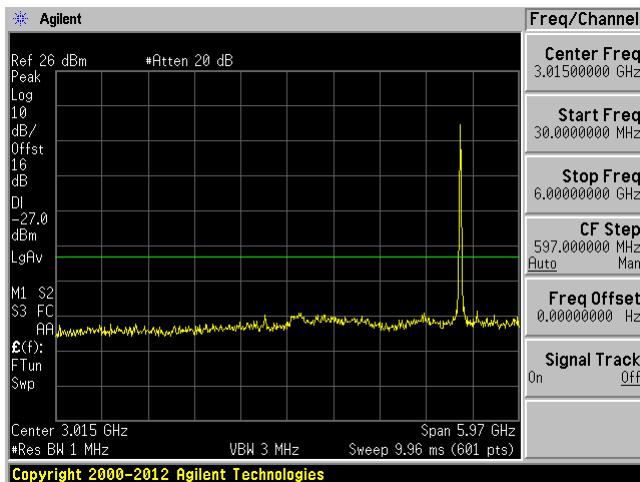
Middle Channel 5200MHz (30MHz-6GHz)



Middle Channel 5200 MHz (6-40GHz)



High Channel 5240MHz (30MHz-6GHz)

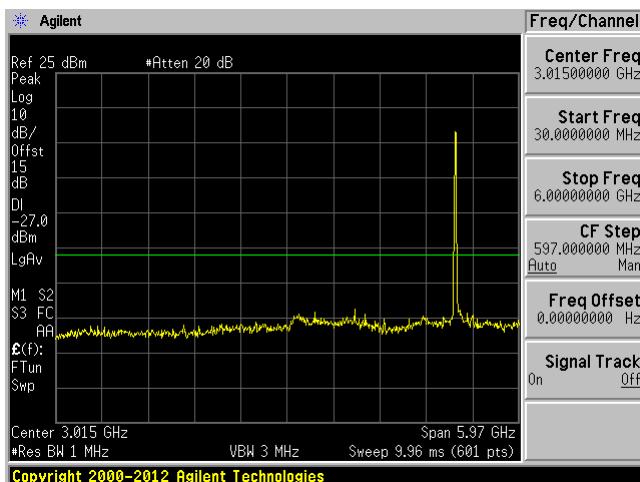


High Channel 5240 MHz (6-40GHz)

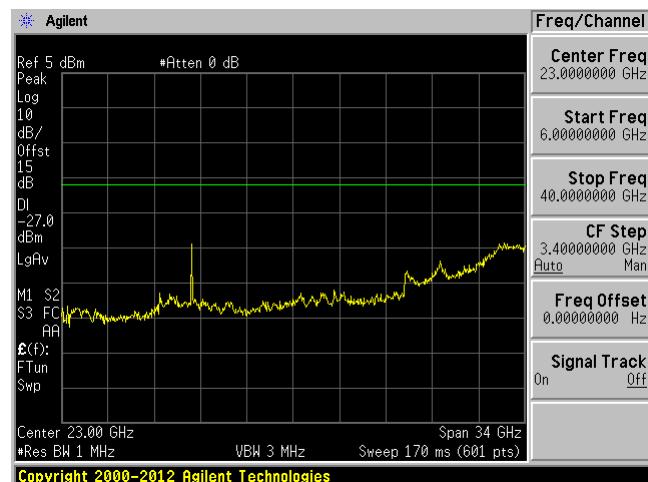


802.11a mode chain 2

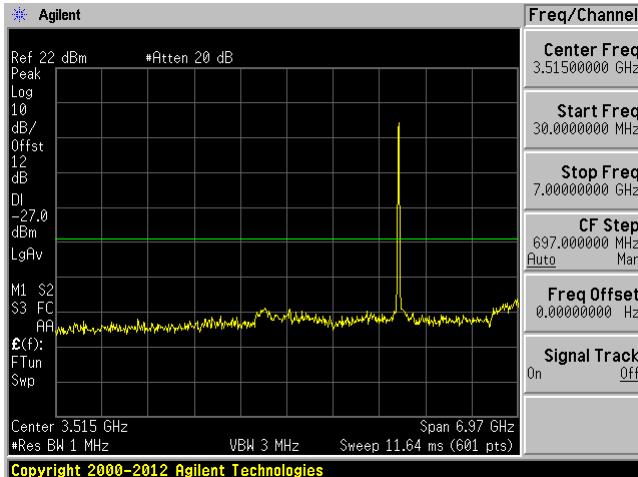
Low Channel 5180MHz (30MHz-6GHz)



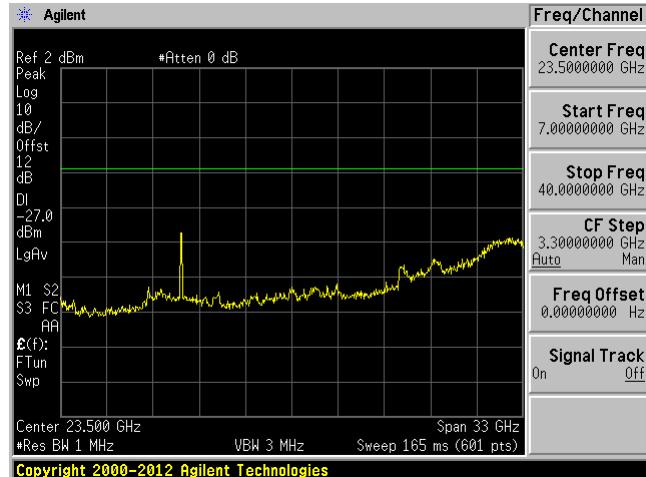
Low Channel 5180 MHz (6-40GHz)



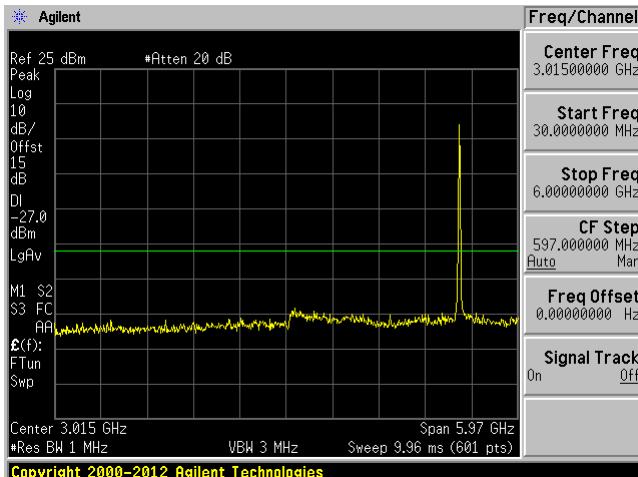
Middle Channel 5200MHz (30MHz-7GHz)



Middle Channel 5200 MHz (7-40GHz)



High Channel 5240MHz (30MHz-6GHz)

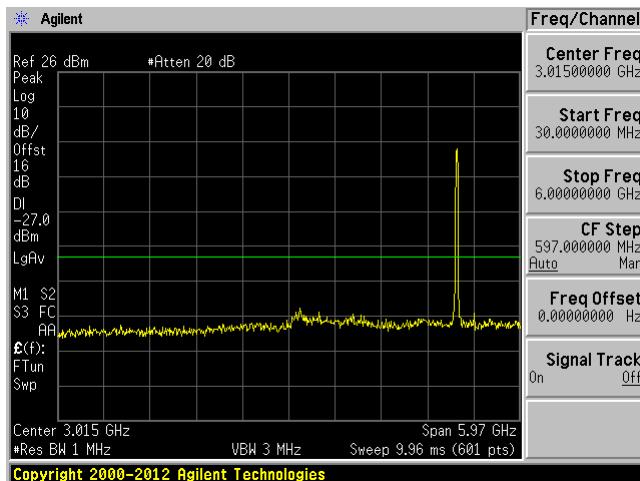


High Channel 5240 MHz (6-40GHz)



802.11n20 mode chain 1

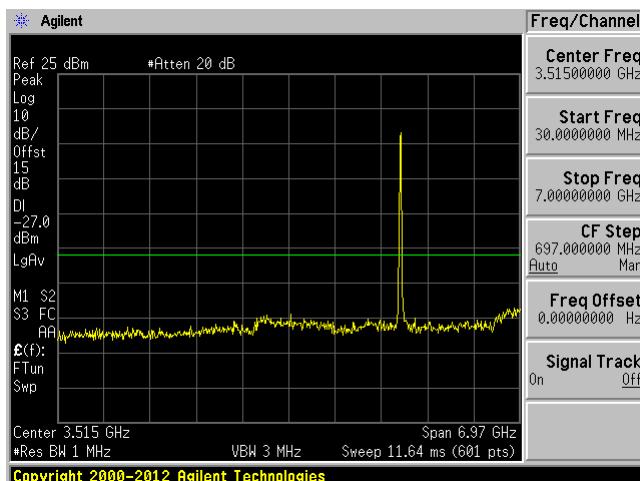
Low Channel 5180MHz (30MHz-6GHz)



Low Channel 5180 MHz (6-40GHz)



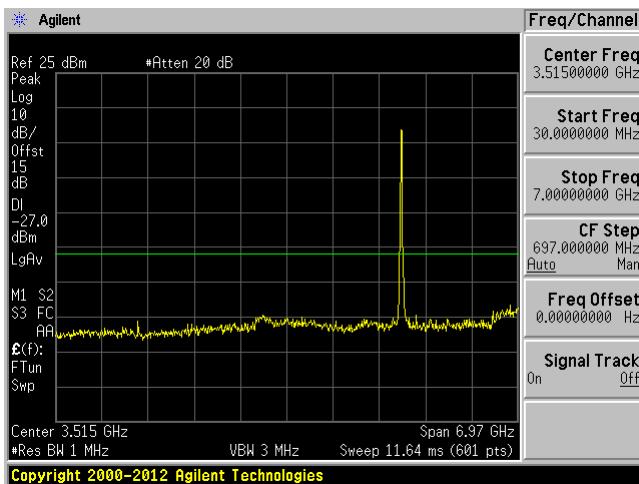
Middle Channel 5200MHz (30MHz-7GHz)



Middle Channel 5200 MHz (7-40GHz)



High Channel 5240MHz (30MHz-7GHz)

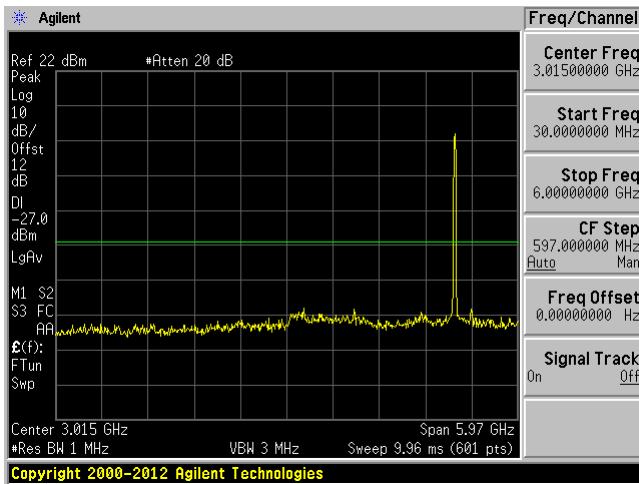


High Channel 5240 MHz (7-40GHz)



802.11n20 mode chain 2

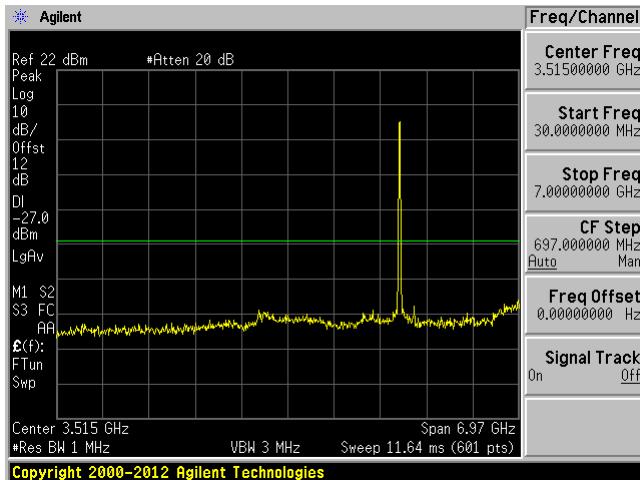
Low Channel 5180MHz (30MHz-6GHz)



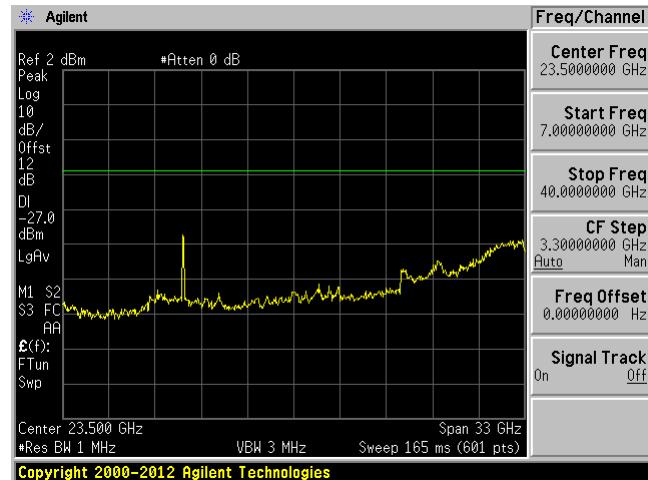
Low Channel 5180 MHz (6-40GHz)



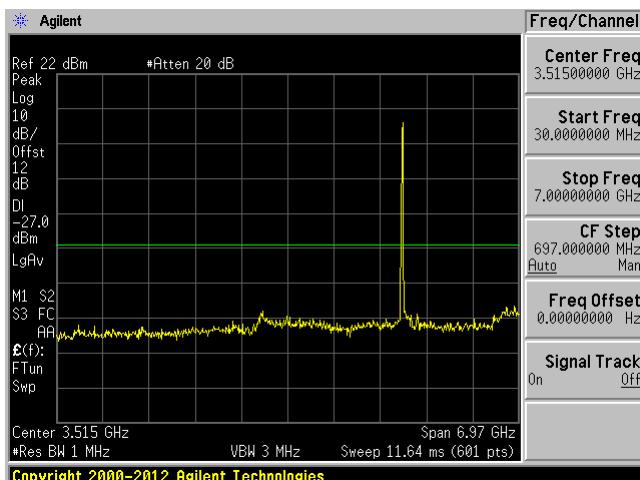
Middle Channel 5200MHz (30MHz-7GHz)



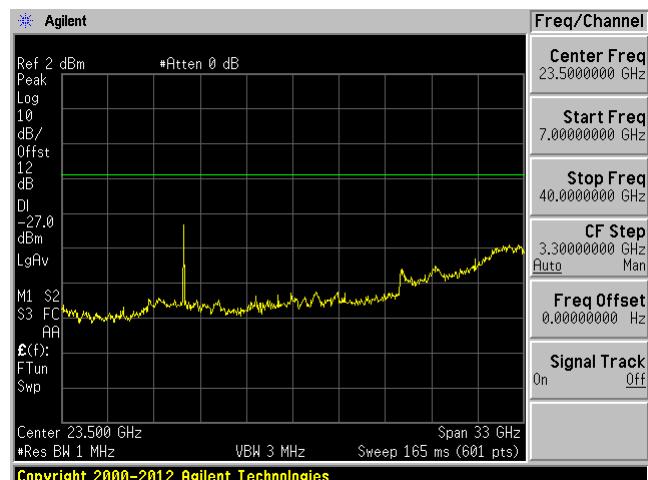
Middle Channel 5200 MHz (7-40GHz)



High Channel 5240MHz (30MHz-7GHz)

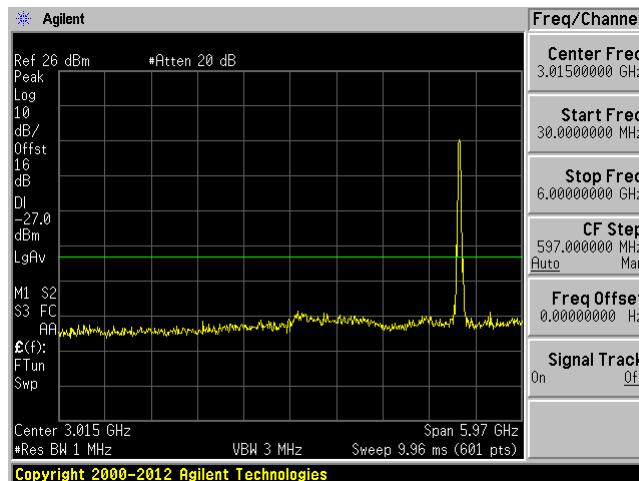


High Channel 5240 MHz (7-40GHz)



802.11n40 mode chain 1

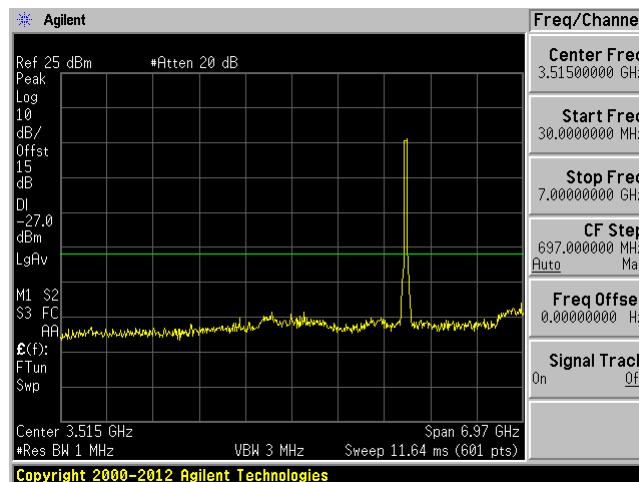
Low Channel 5190MHz (30MHz-6GHz)



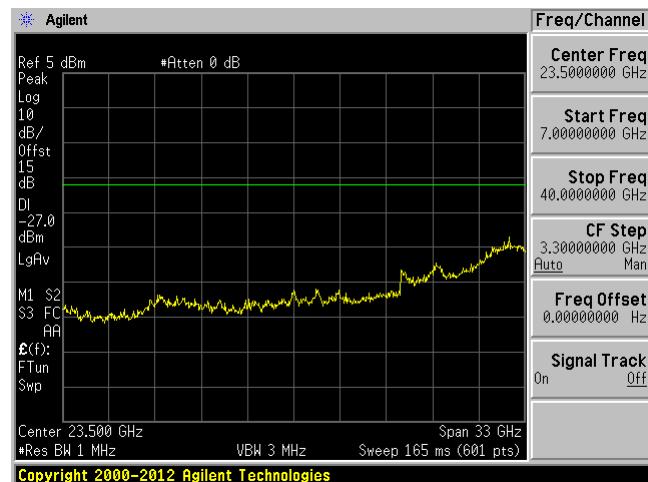
Low Channel 5190 MHz (6-40GHz)



High Channel 5230MHz (30MHz-7GHz)

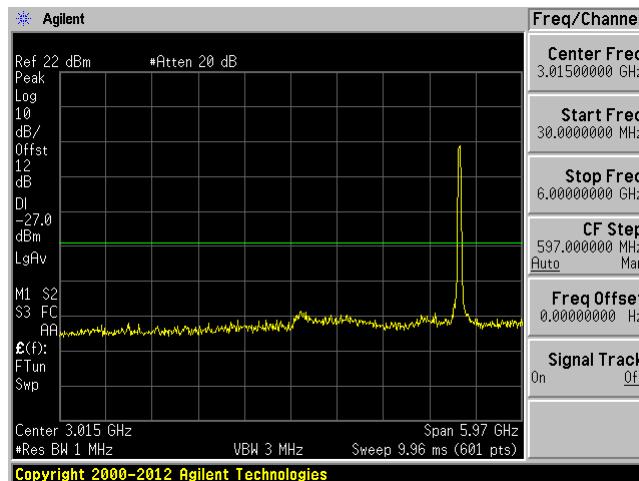


High Channel 5230 MHz (7-40GHz)

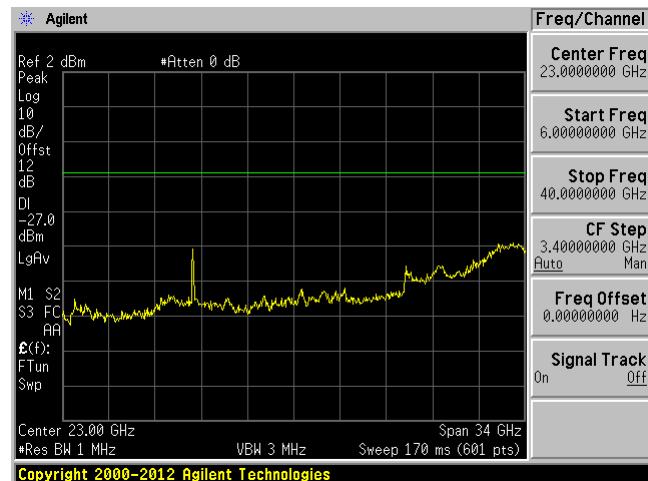


802.11n40 mode chain 2

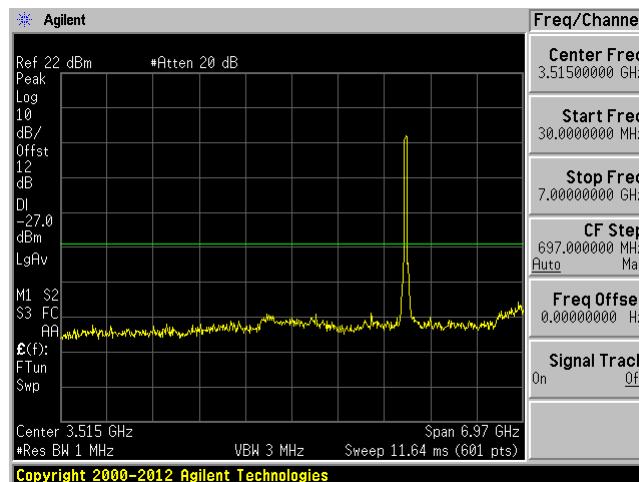
Low Channel 5190MHz (30MHz-6GHz)



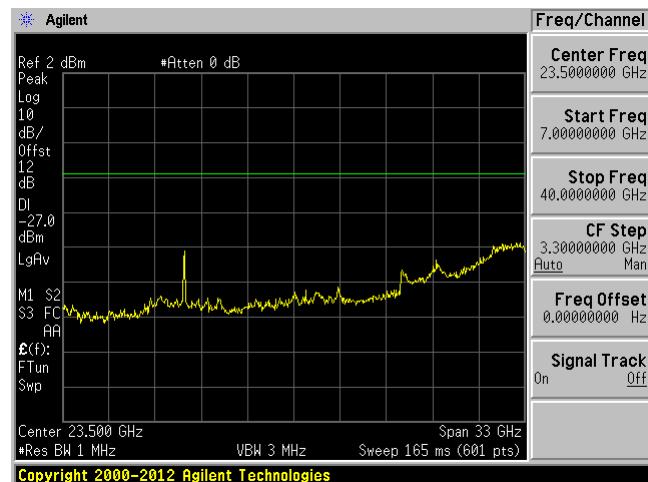
Low Channel 5190 MHz (6-40GHz)



High Channel 5230MHz (30MHz-7GHz)

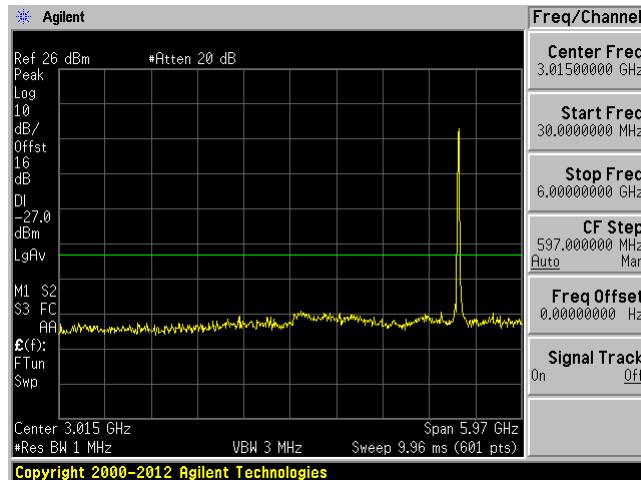


High Channel 5230 MHz (7-40GHz)

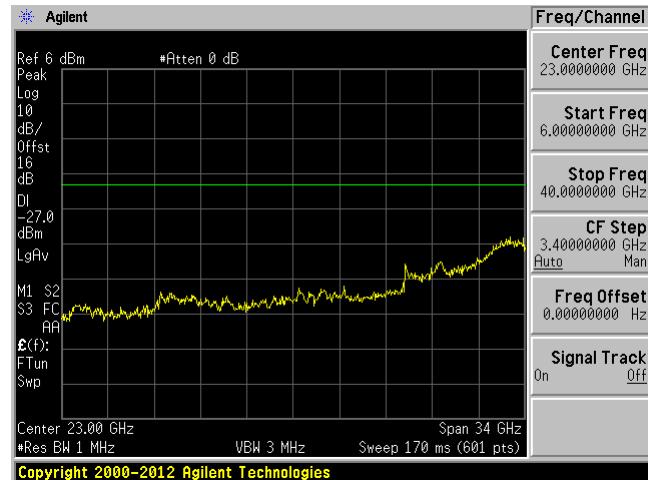


802.11ac20 mode chain 1

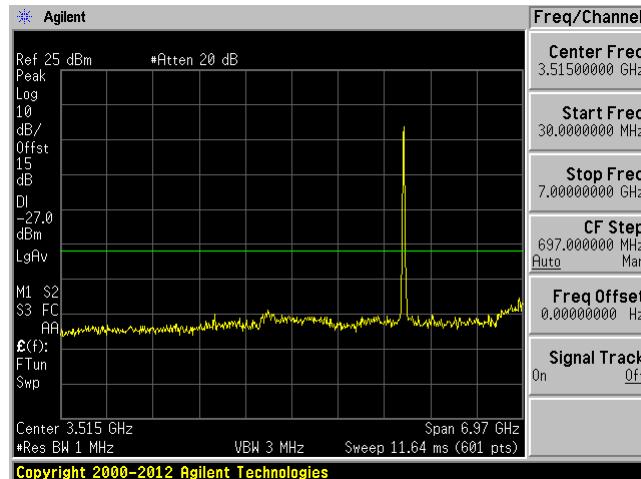
Low Channel 5180MHz (30MHz-6GHz)



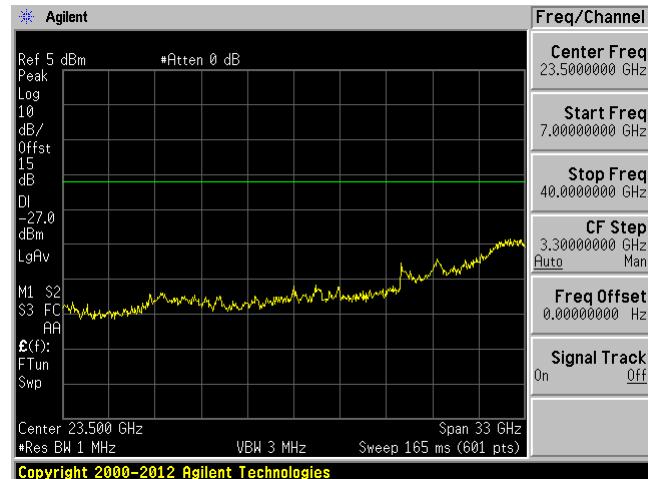
Low Channel 5180 MHz (6-40GHz)



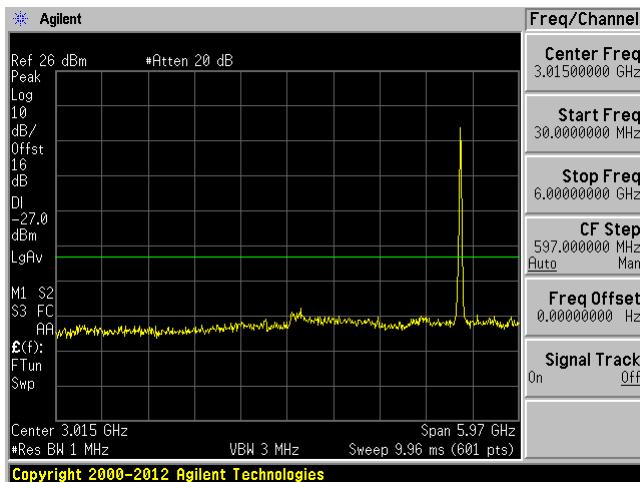
Middle Channel 5200MHz (30MHz-7GHz)



Middle Channel 5200 MHz (7GHz – 40GHz)



High Channel 5240MHz (30MHz-6GHz)

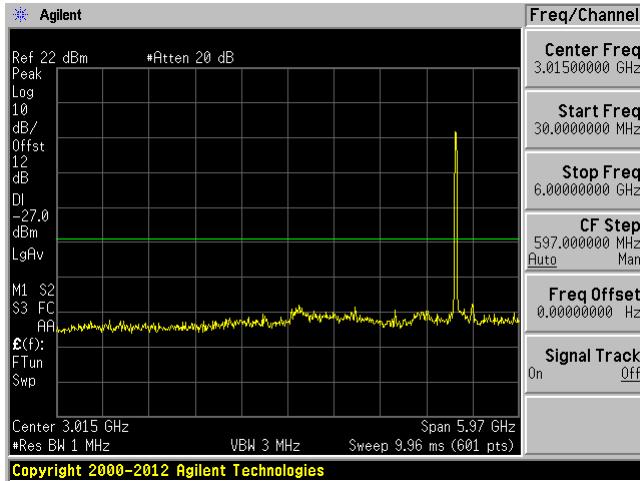


High Channel 5240 MHz (6GHz – 40GHz)

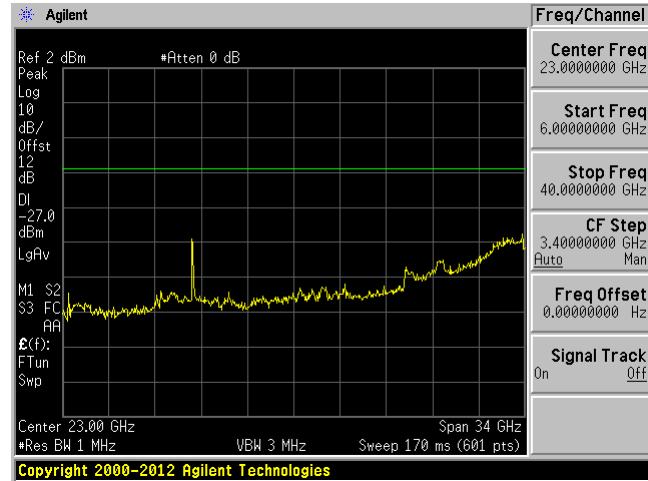


802.11ac20 mode chain 2

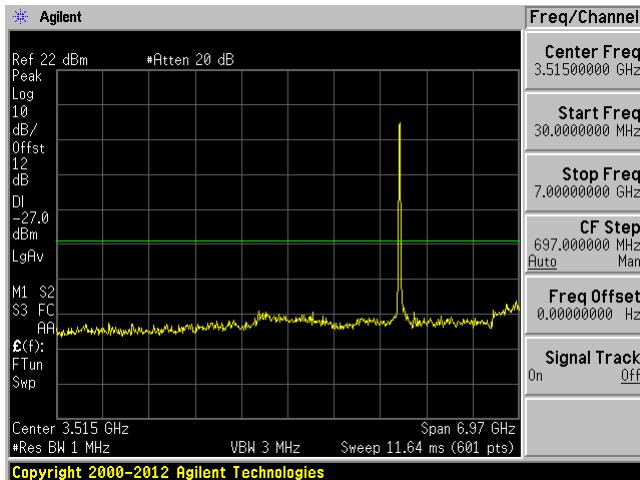
Low Channel 5180MHz (30MHz-6GHz)



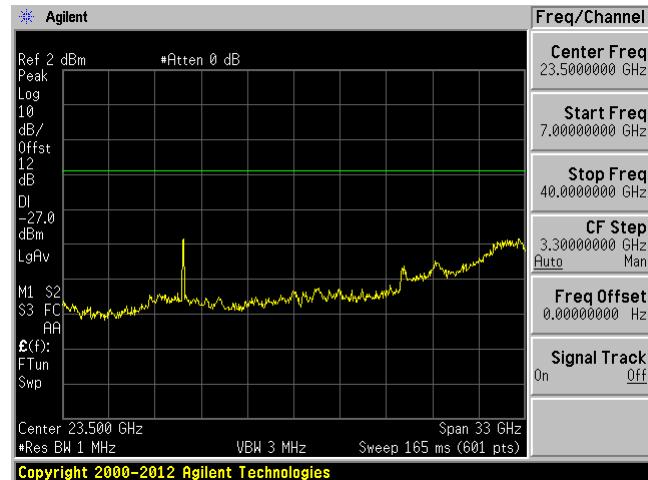
Low Channel 5180 MHz (6-40GHz)



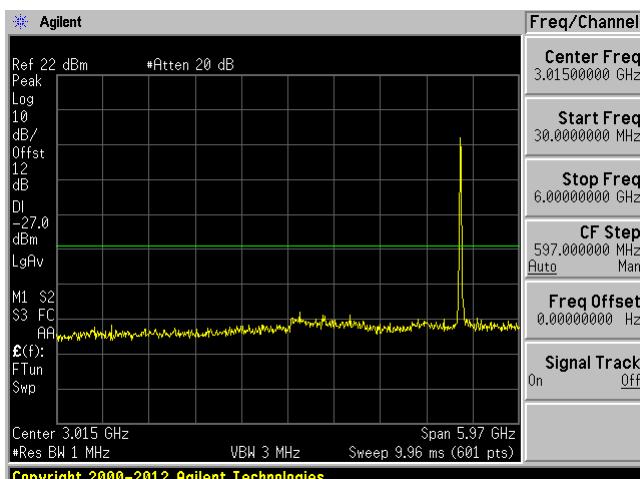
Middle Channel 5200MHz (30MHz-7GHz)



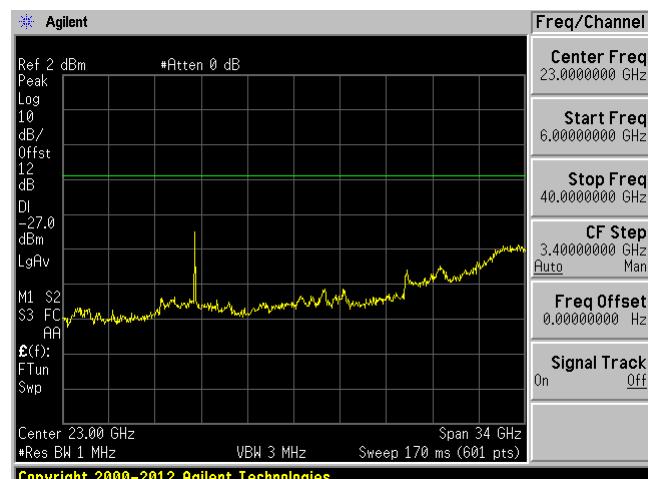
Middle Channel 5200 MHz (7GHz – 40GHz)



High Channel 5240MHz (30MHz-6GHz)

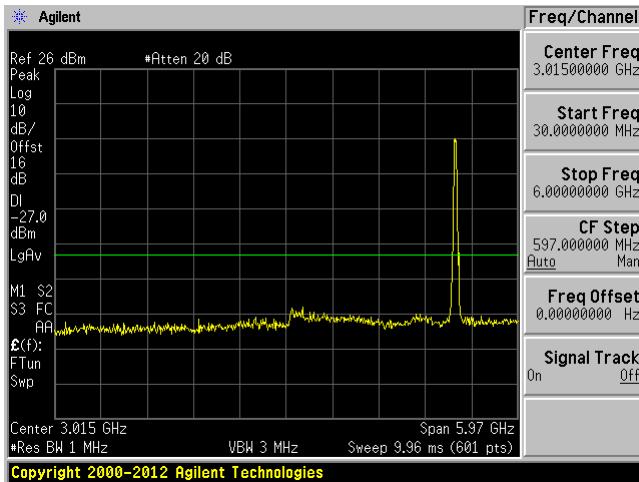


High Channel 5240 MHz (6GHz – 40GHz)

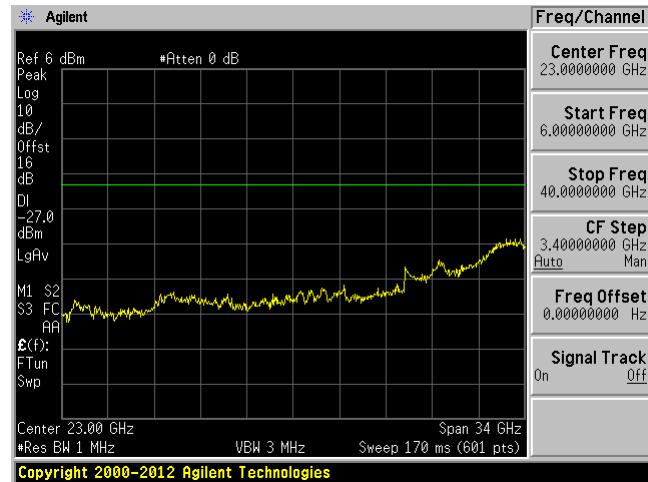


802.11ac40 mode chain 1

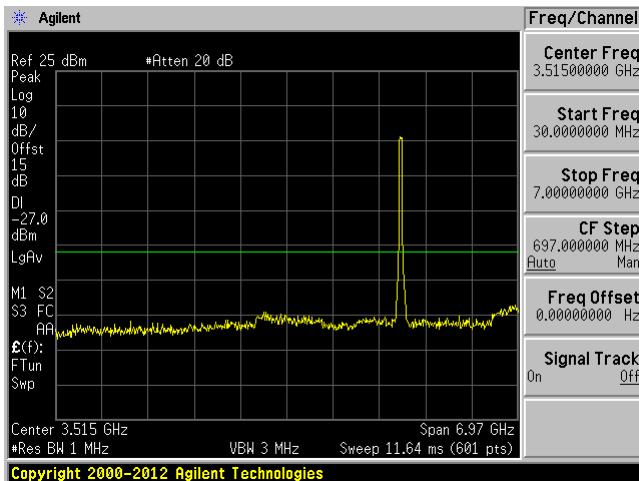
Low Channel 5190MHz (30MHz-6GHz)



Low Channel 5190 MHz (6-40GHz)



High Channel 5230MHz (30MHz-7GHz)

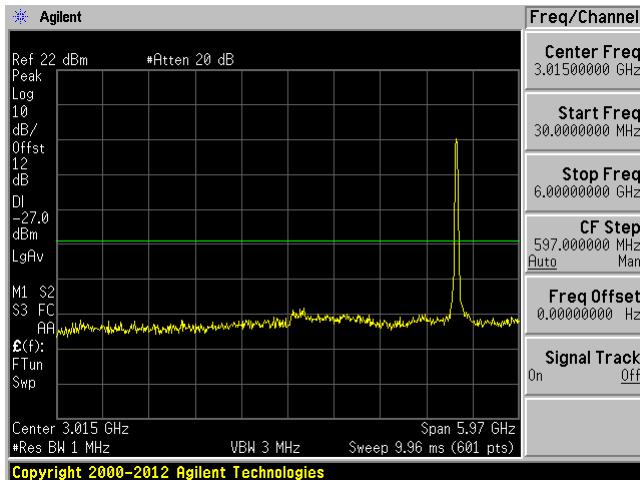


High Channel 5230 MHz (7GHz – 40GHz)

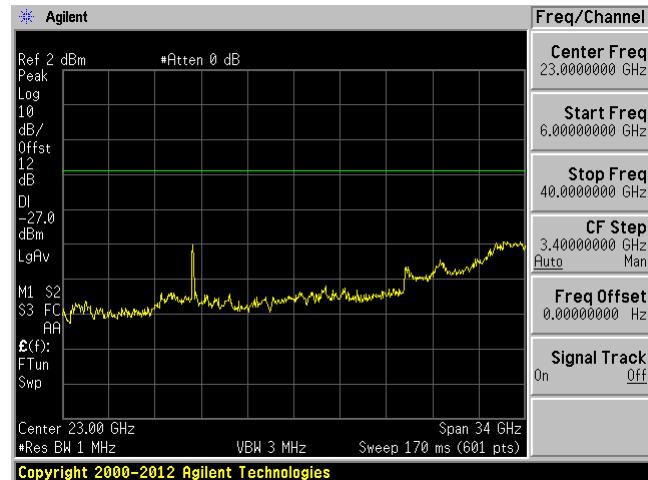


802.11ac40 mode chain 2

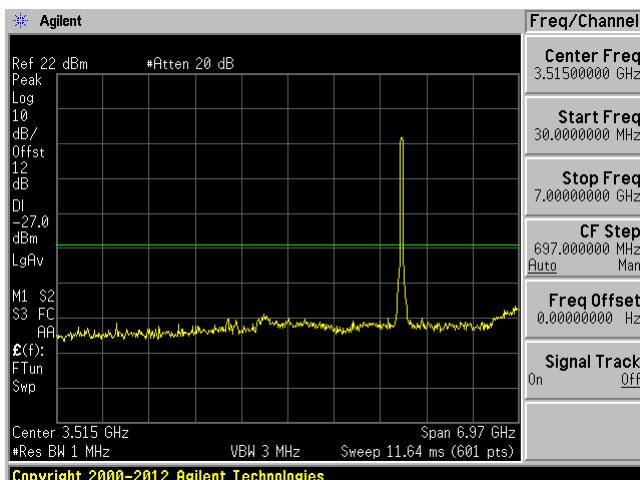
Low Channel 5190MHz (30MHz-6GHz)



Low Channel 5190 MHz (6-40GHz)



High Channel 5230MHz (30MHz-7GHz)

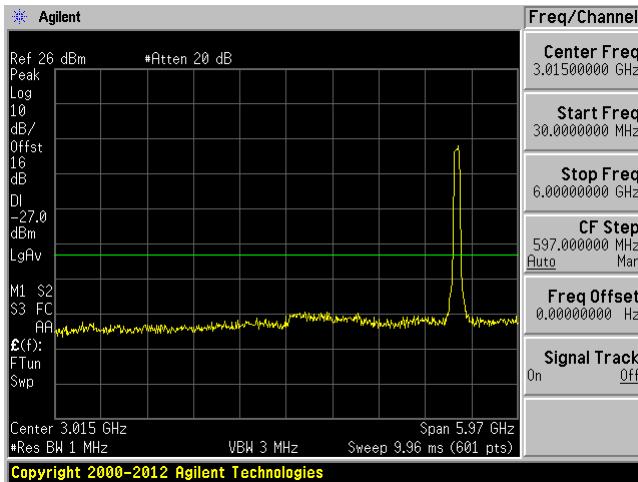


High Channel 5230 MHz (7GHz – 40GHz)

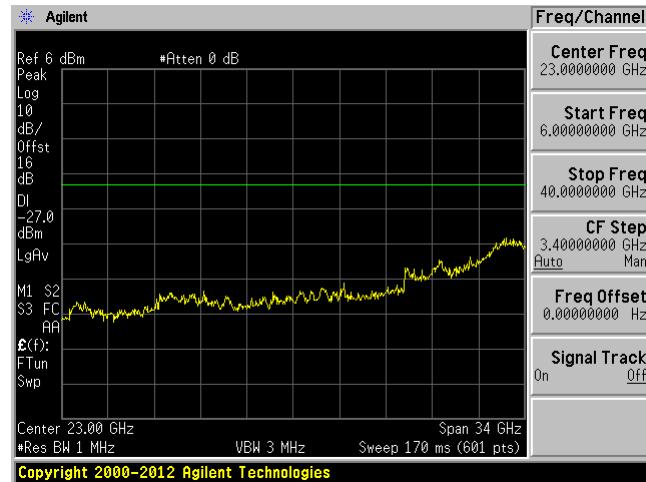


802.11ac80 mode chain 1

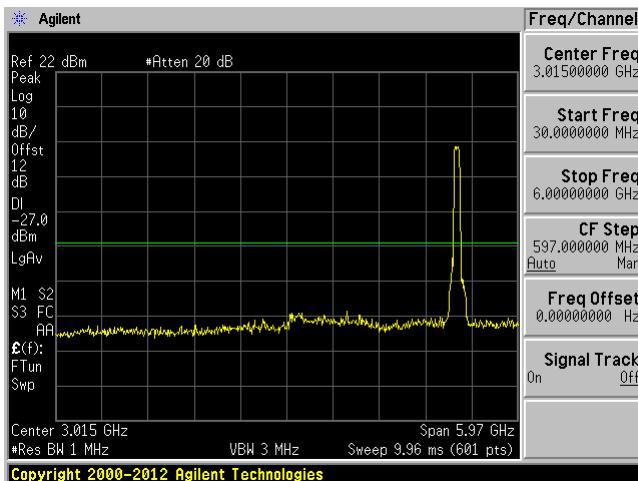
5210 MHz (30MHz-6GHz)



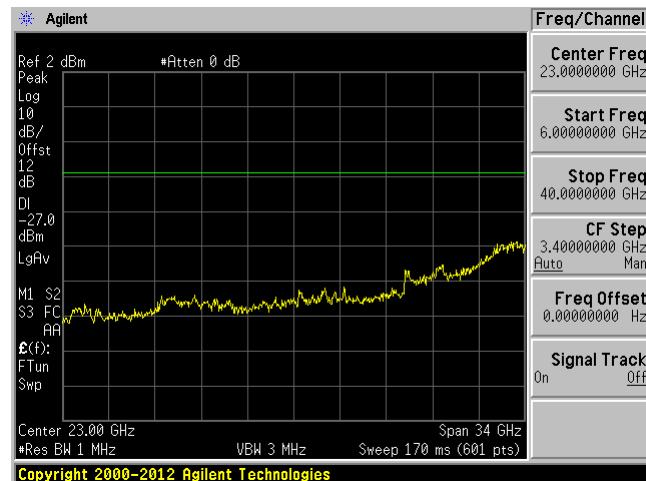
5210 MHz (6GHz – 40GHz)

**802.11ac80 mode chain 2**

5210 MHz (30MHz-6GHz)



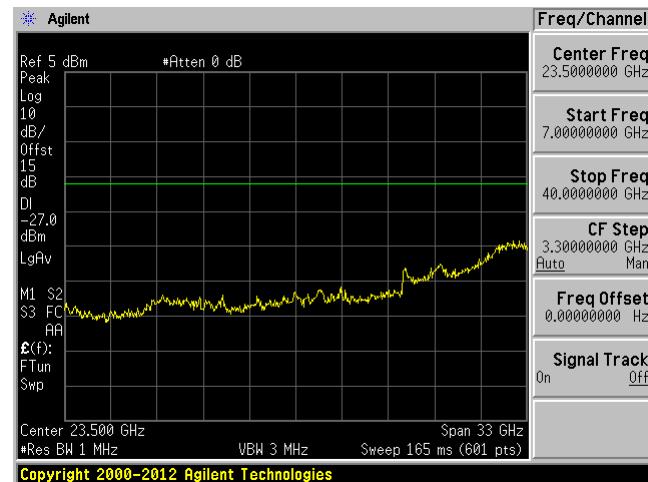
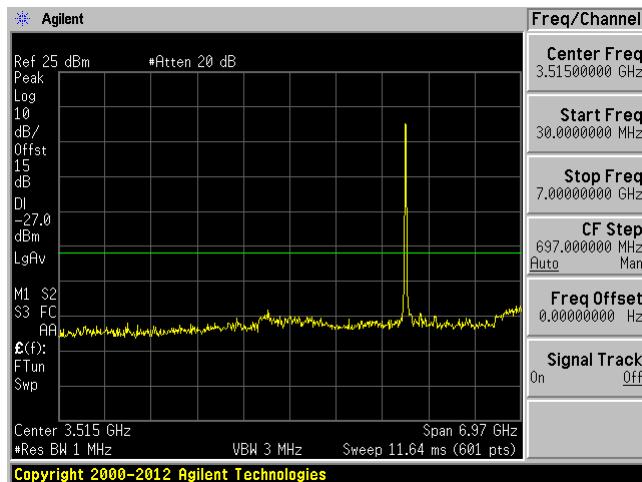
5210 MHz (6GHz – 40GHz)



5250 – 5350 MHz**802.11a mode chain 1**

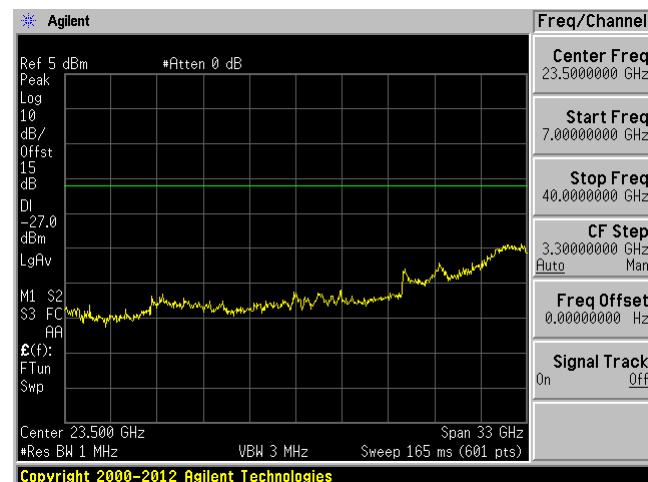
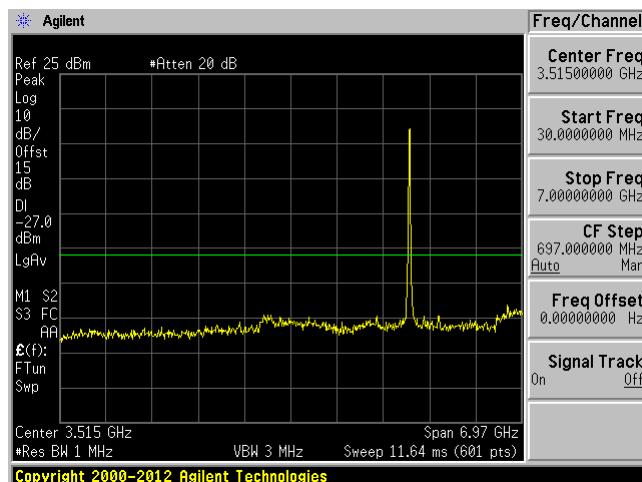
Low Channel 5260 MHz (30MHz-7GHz)

Low Channel 5260 MHz (7-40GHz)

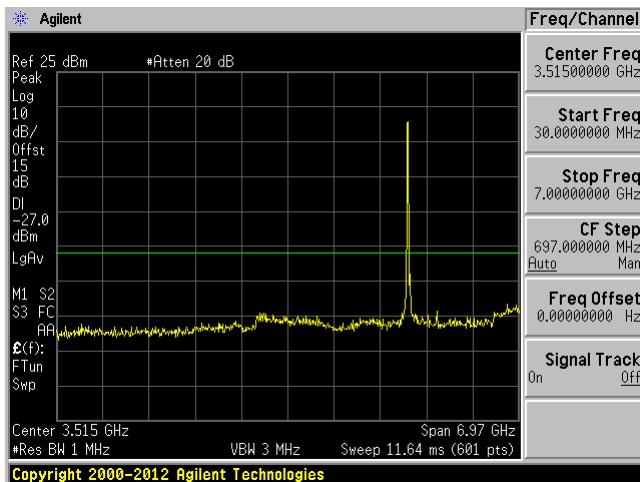


Middle Channel 5300 MHz (30MHz-7GHz)

Middle Channel 5300 MHz (7-40GHz)



High Channel 5320 MHz (30MHz-7GHz)

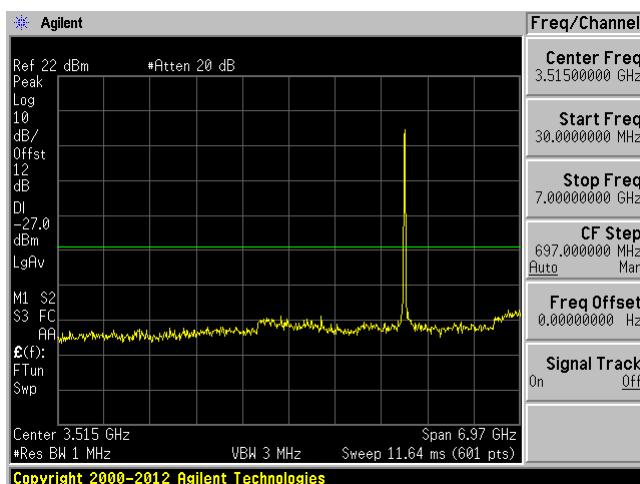


High Channel 5320 MHz (7-40GHz)

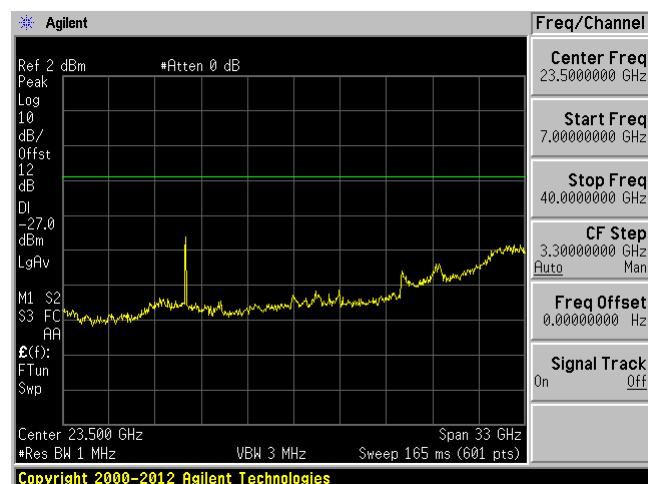


802.11a mode chain 2

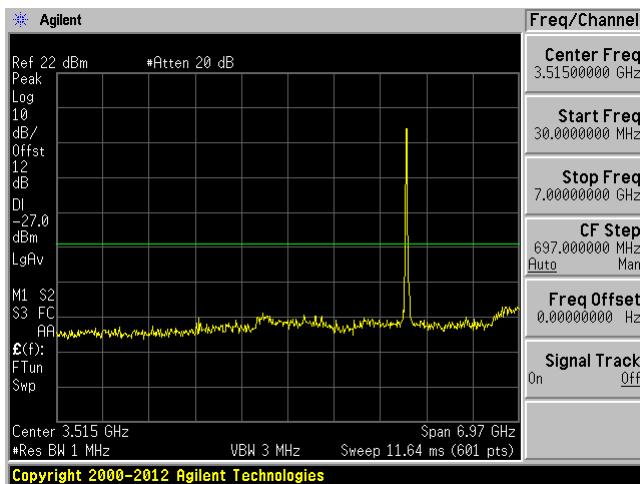
Low Channel 5260 MHz (30MHz-7GHz)



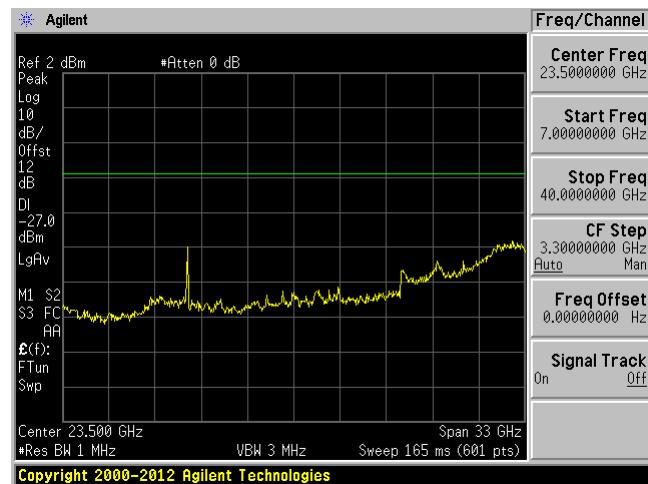
Low Channel 5260 MHz (7-40GHz)



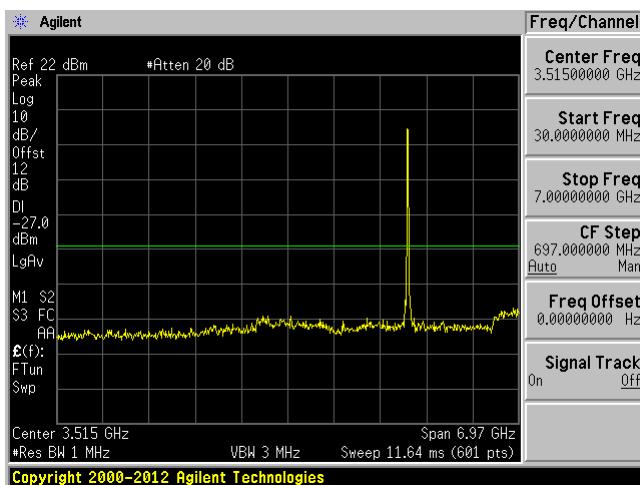
Middle Channel 5300 MHz (30MHz-7GHz)



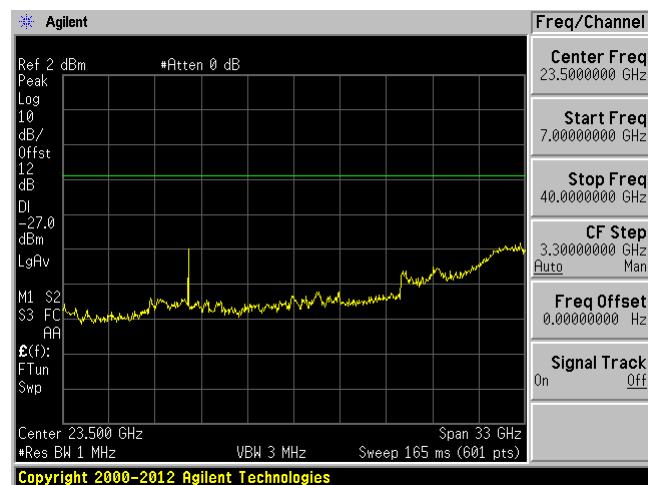
Middle Channel 5300 MHz (7-40GHz)



High Channel 5320 MHz (30MHz-7GHz)



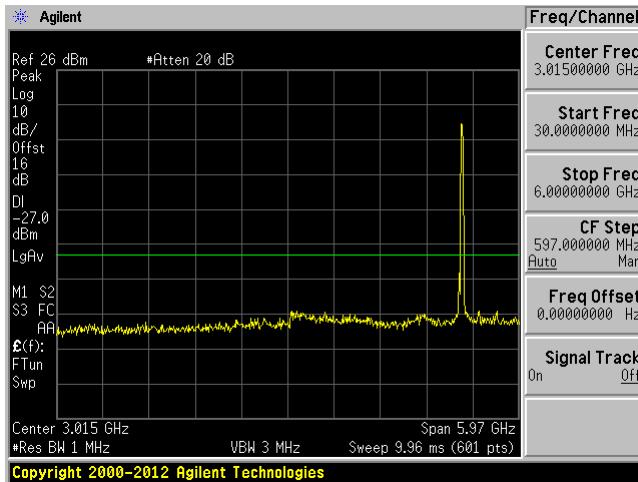
High Channel 5320 MHz (7-40GHz)



802.11n20 mode chain 1

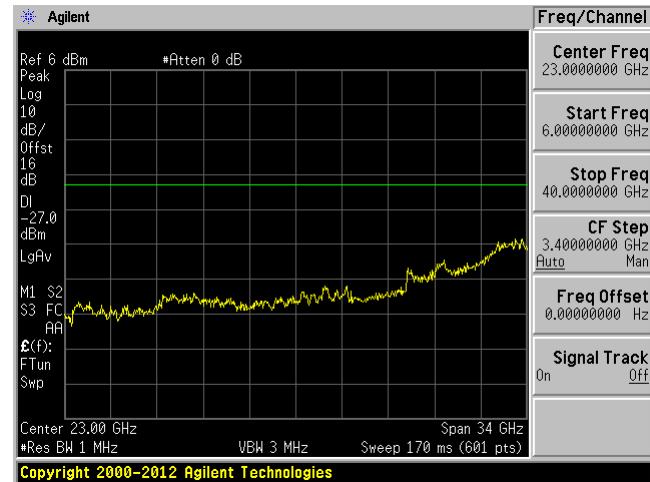
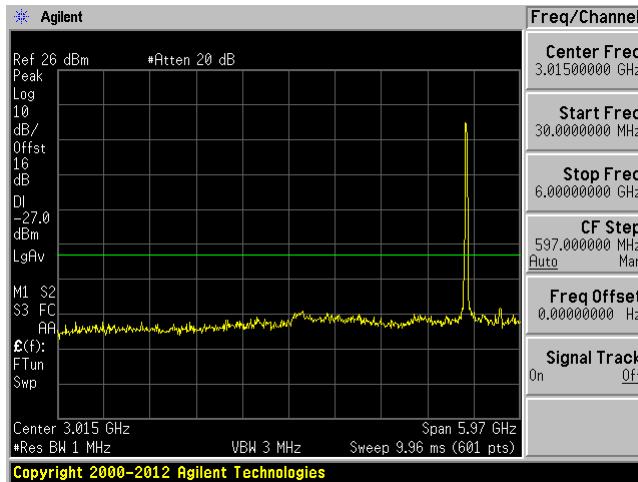
Low Channel 5260 MHz (30MHz-6GHz)

Low Channel 5260 MHz (6-40GHz)

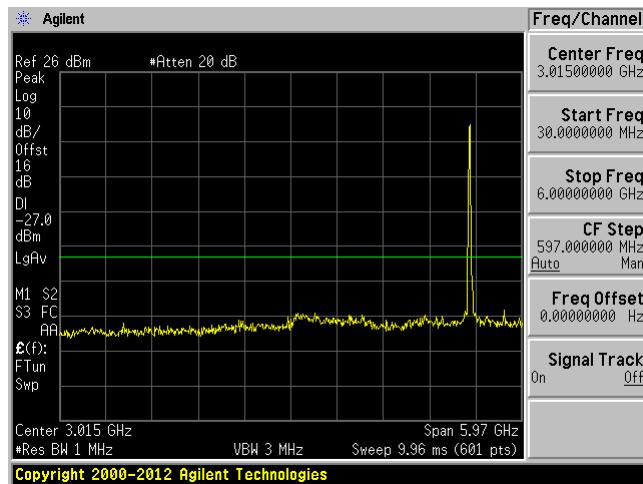


Middle Channel 5300 MHz (30MHz-6GHz)

Middle Channel 5300 MHz (6-40GHz)



High Channel 5320 MHz (30MHz-6GHz)

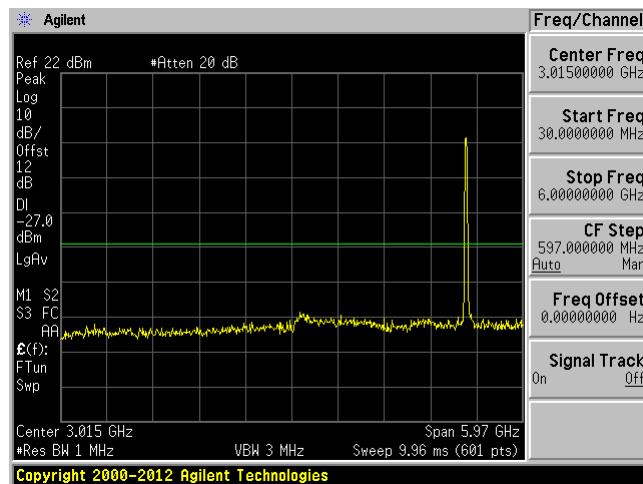


High Channel 5320 MHz (6-40GHz)

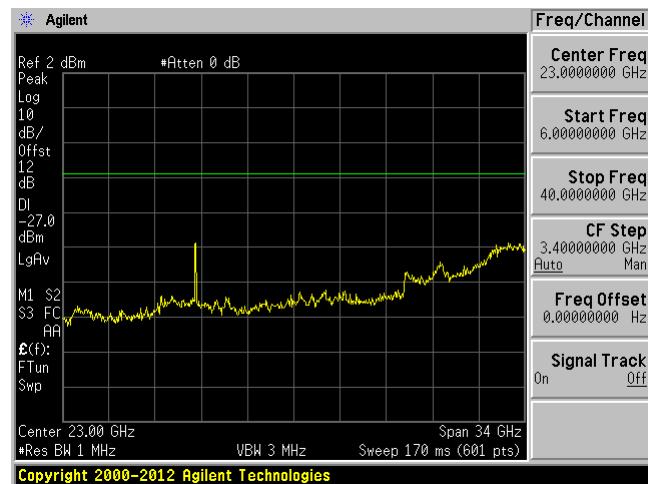


802.11n20 mode chain 2

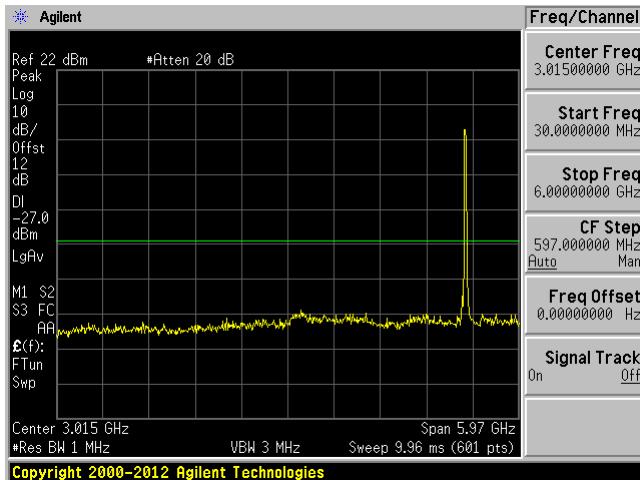
Low Channel 5260 MHz (30MHz-6GHz)



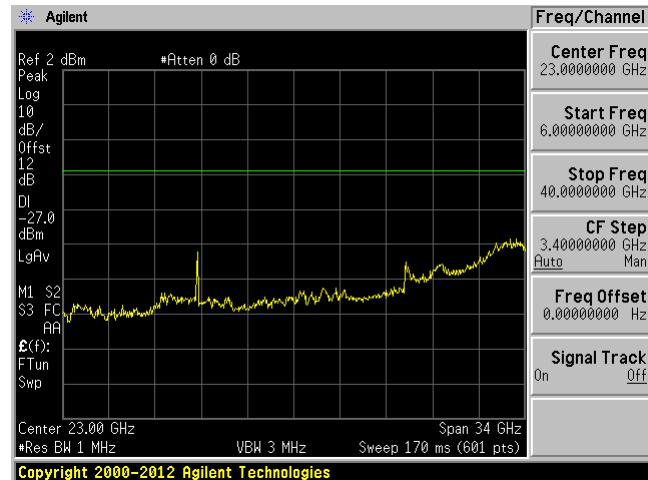
Low Channel 5260 MHz (6-40GHz)



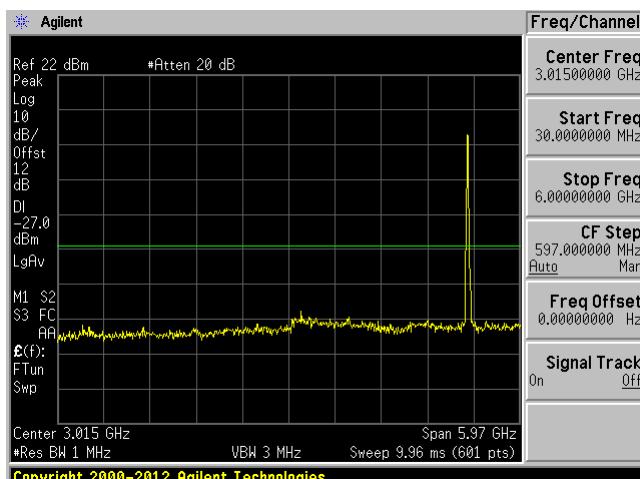
Middle Channel 5300 MHz (30MHz-6GHz)



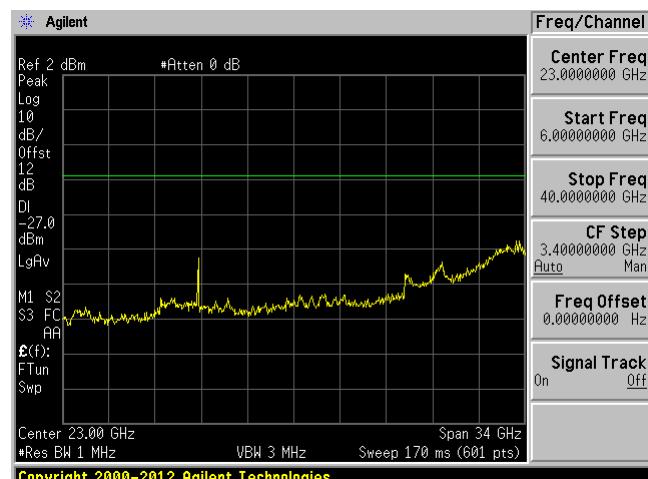
Middle Channel 5300 MHz (6-40GHz)



High Channel 5320 MHz (30MHz-6GHz)



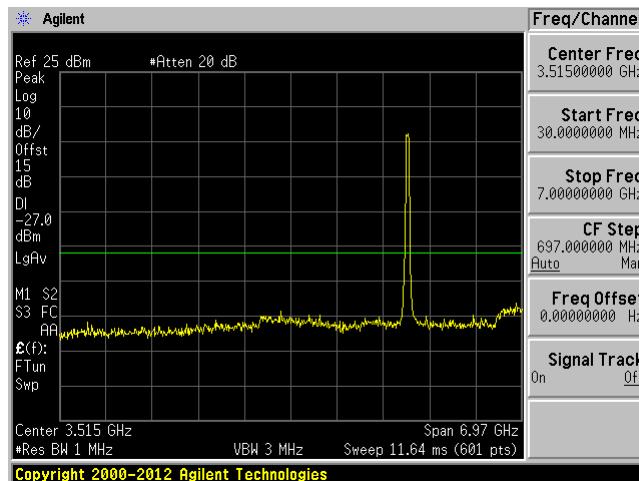
High Channel 5320 MHz (6-40GHz)



802.11n40 mode chain 1

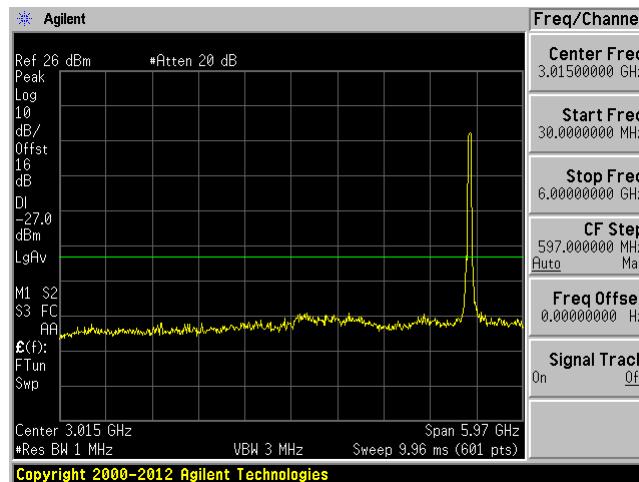
Low Channel 5270 MHz (30MHz-7GHz)

Low Channel 5270 MHz (7-40GHz)



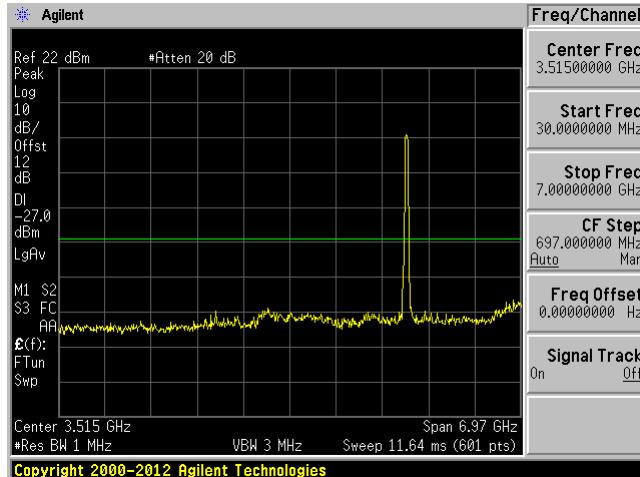
High Channel 5310 MHz (30MHz-6GHz)

High Channel 5310 MHz (6-40GHz)

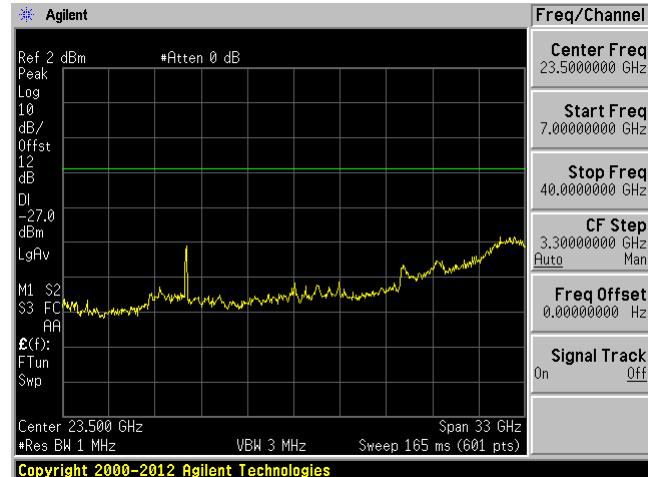


802.11n40 mode chain 2

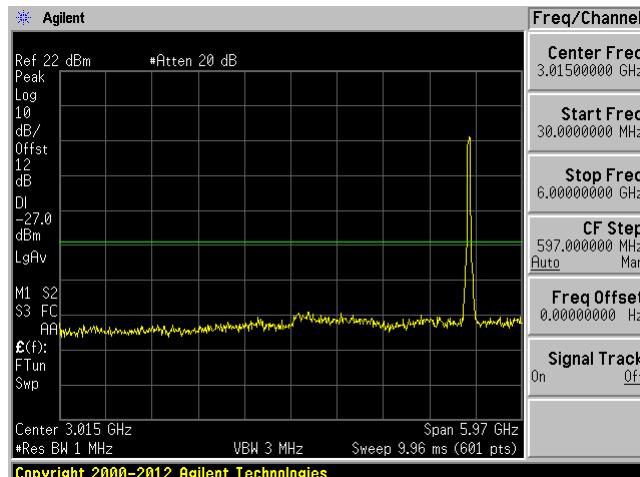
Low Channel 5270 MHz (30MHz-7GHz)



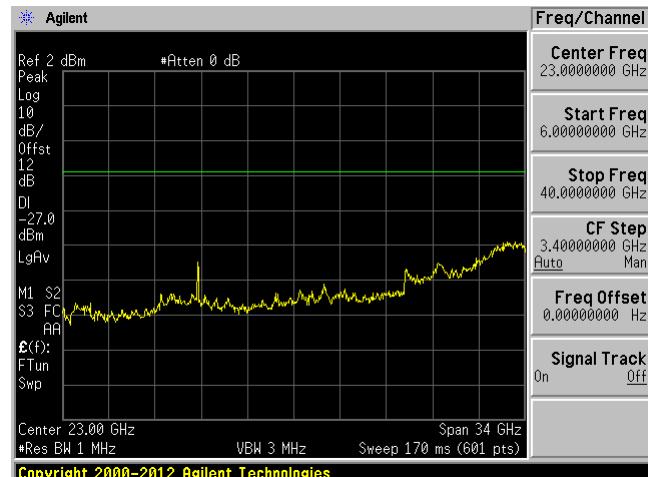
Low Channel 5270 MHz (7-40GHz)



High Channel 5310 MHz (30MHz-6GHz)

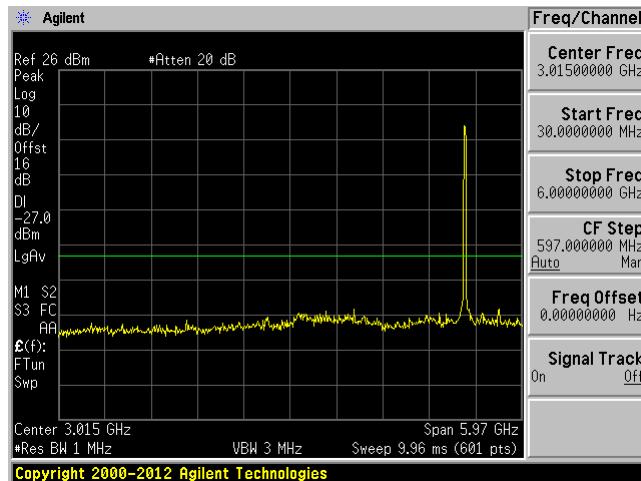


High Channel 5310 MHz (6-40GHz)

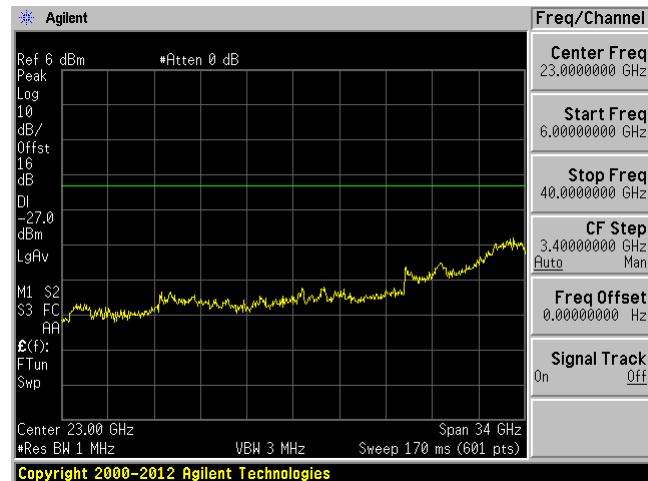


802.11ac20 mode chain 1

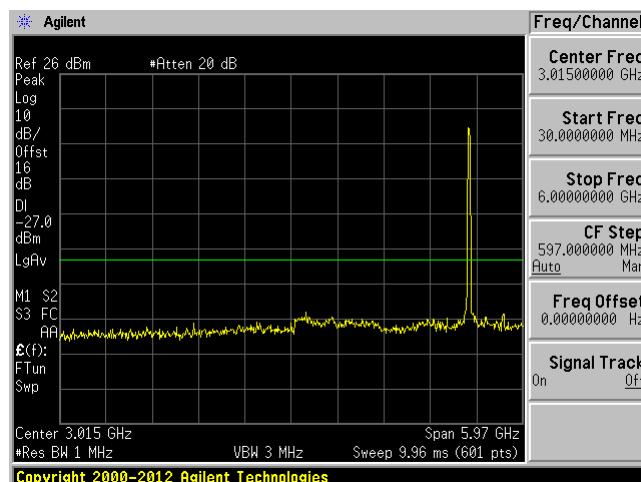
Low Channel 5260MHz (30MHz-6GHz)



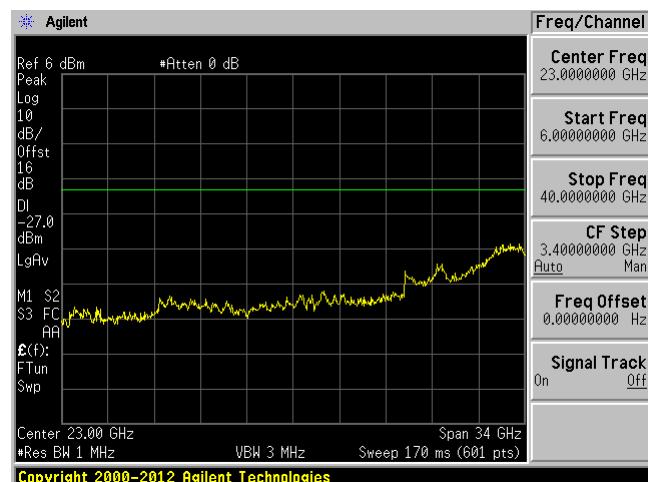
Low Channel 5260 MHz (6-40GHz)



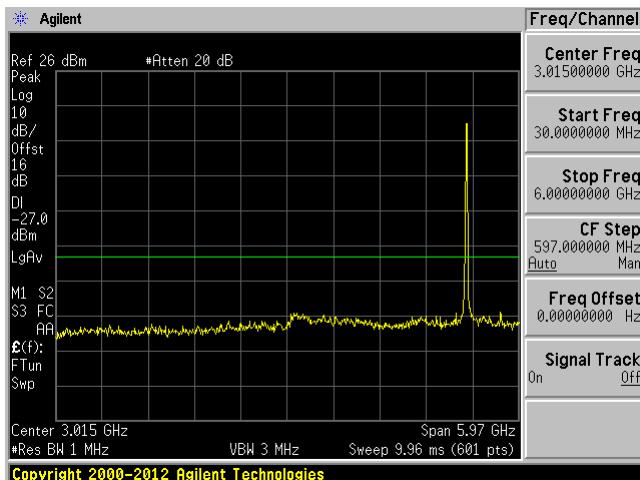
Middle Channel 5300MHz (30MHz-6GHz)



Middle Channel 5300 MHz (6GHz – 40GHz)



High Channel 5320 MHz (30MHz-6GHz)

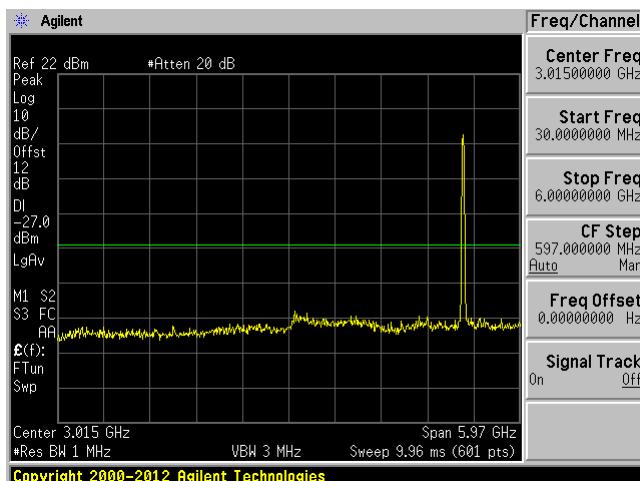


High Channel 5320 MHz (6GHz – 40GHz)

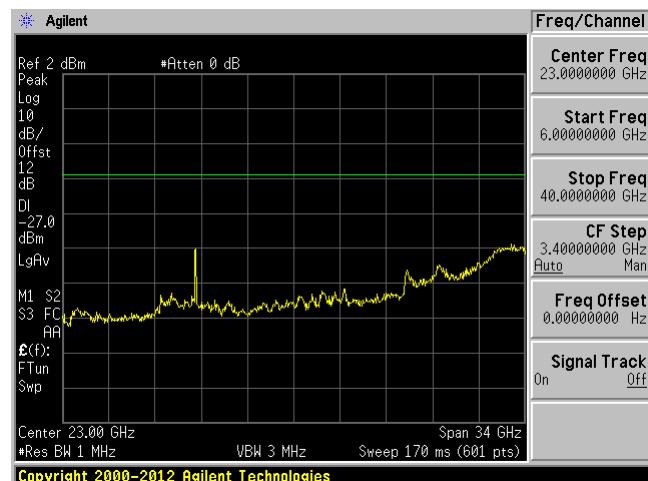


802.11ac20 mode chain 2

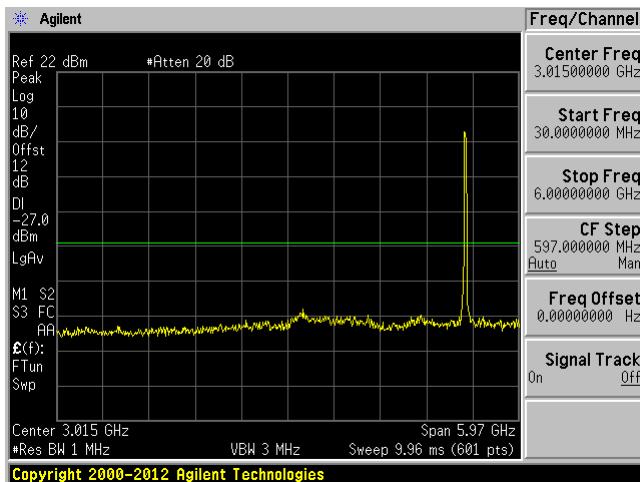
Low Channel 5260MHz (30MHz-6GHz)



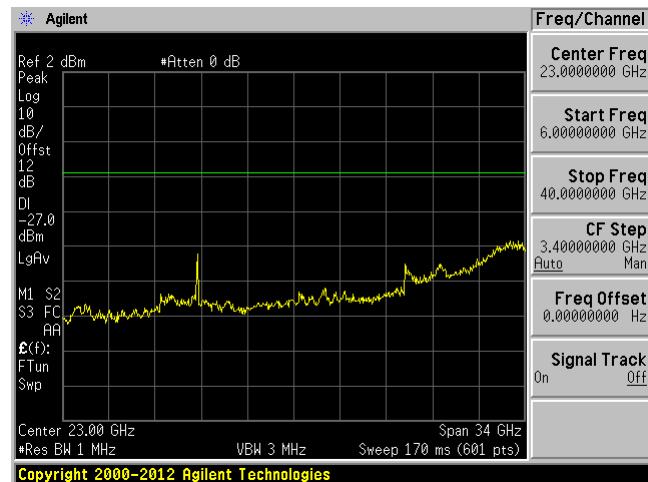
Low Channel 5260 MHz (6-40GHz)



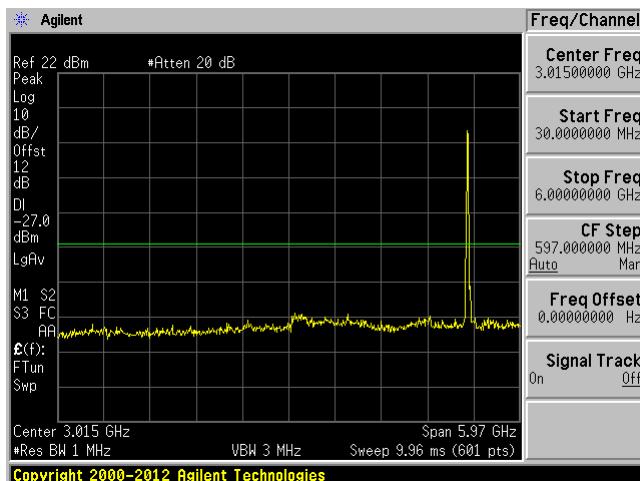
Middle Channel 5300MHz (30MHz-6GHz)



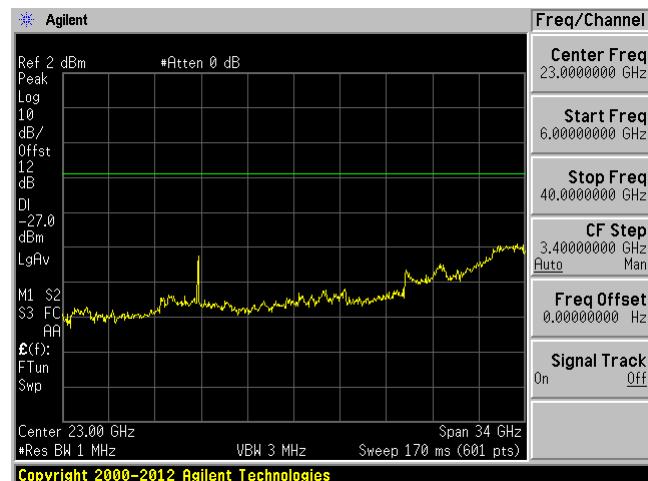
Middle Channel 5300 MHz (6GHz – 40GHz)



High Channel 5320 MHz (30MHz-6GHz)

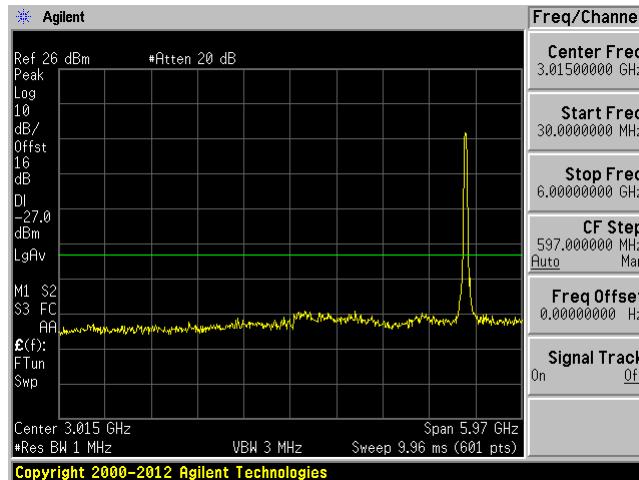


High Channel 5320 MHz (6GHz – 40GHz)

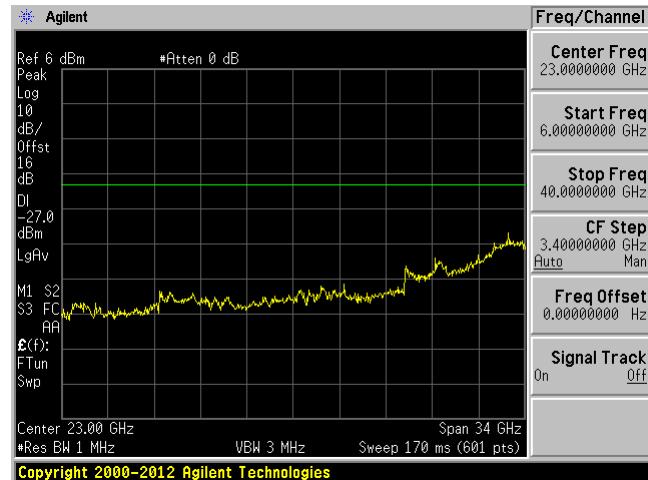


802.11ac40 mode chain 1

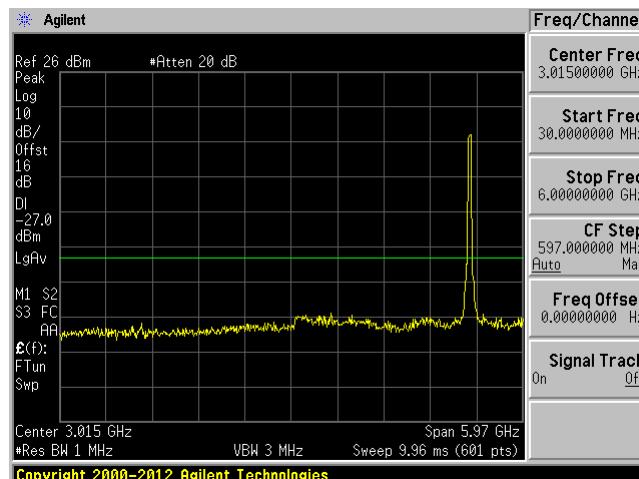
Low Channel 5270 MHz (30MHz-6GHz)



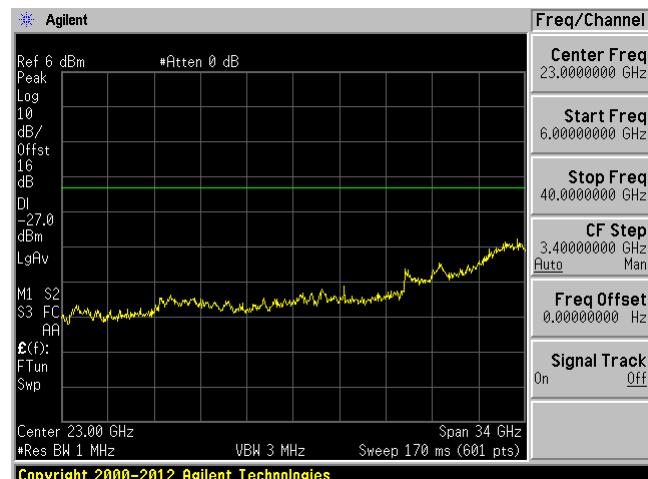
Low Channel 5270 MHz (6-40GHz)



High Channel 5310 MHz (30MHz-6GHz)

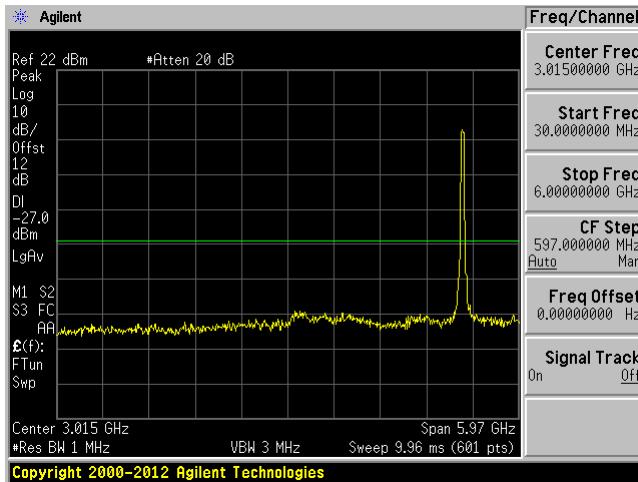


High Channel 5310 MHz (6GHz – 40GHz)

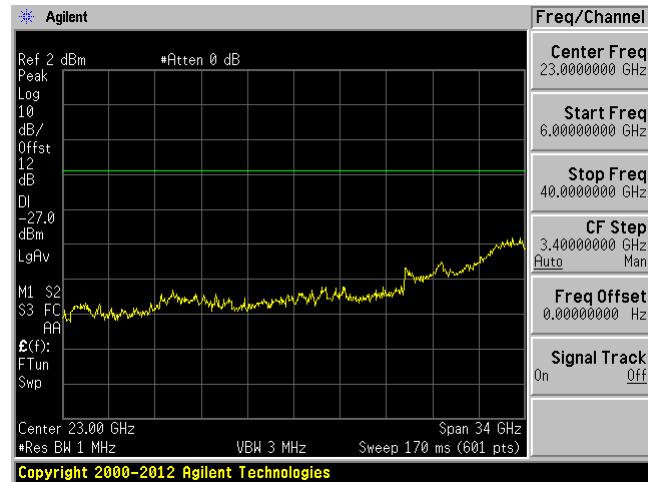


802.11ac40 mode chain 2

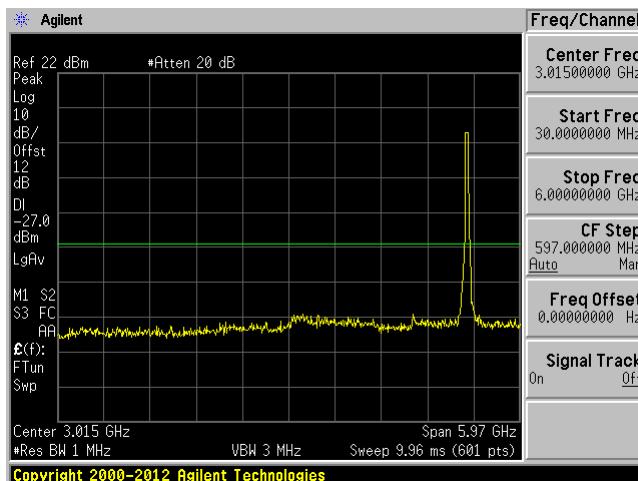
Low Channel 5270 MHz (30MHz-6GHz)



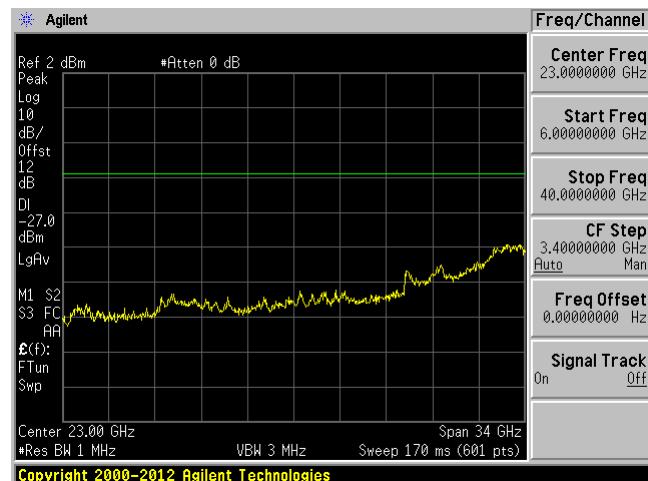
Low Channel 5270 MHz (6-40GHz)



High Channel 5310 MHz (30MHz-6GHz)



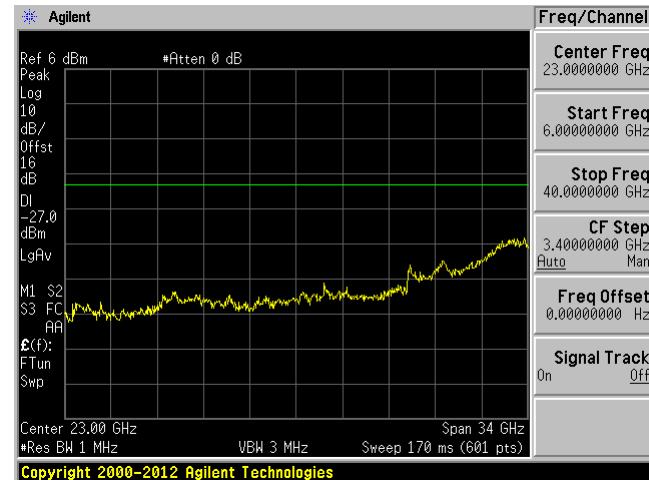
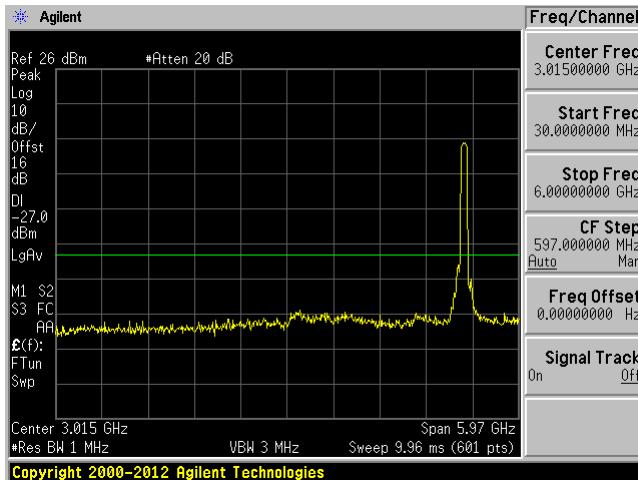
High Channel 5310 MHz (6GHz – 40GHz)



802.11ac80 mode chain 1

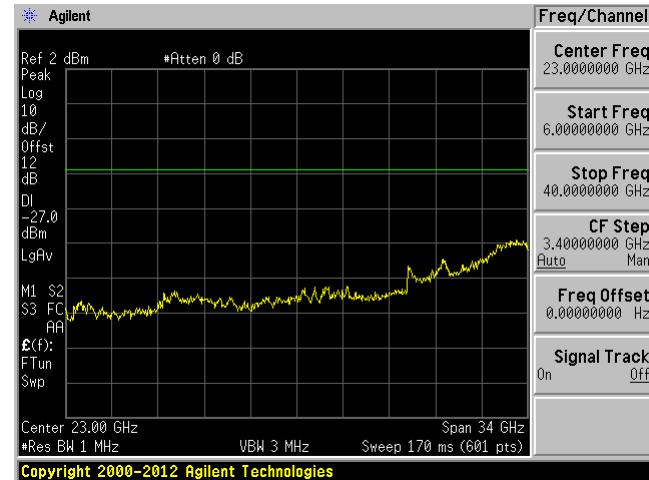
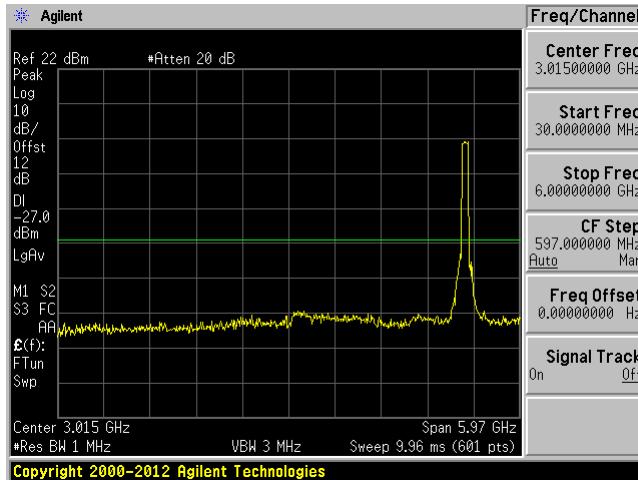
5290 MHz (30MHz-6GHz)

5290 MHz (6GHz – 40GHz)

**802.11ac80 mode chain 2**

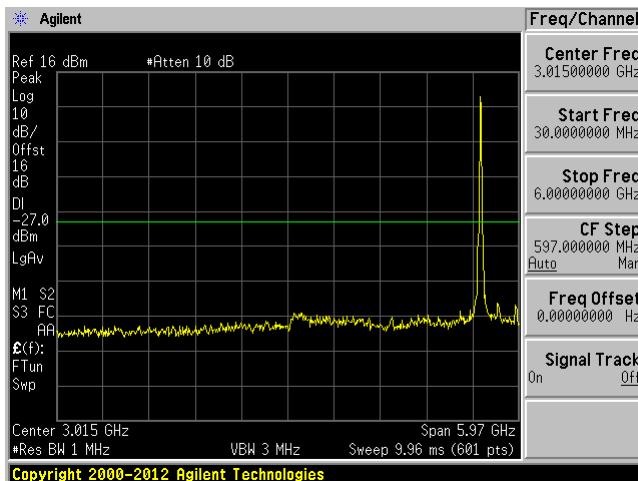
5290 MHz (30MHz-6GHz)

5290 MHz (6GHz – 40GHz)



5470 – 5725 MHz**802.11a mode chain 1**

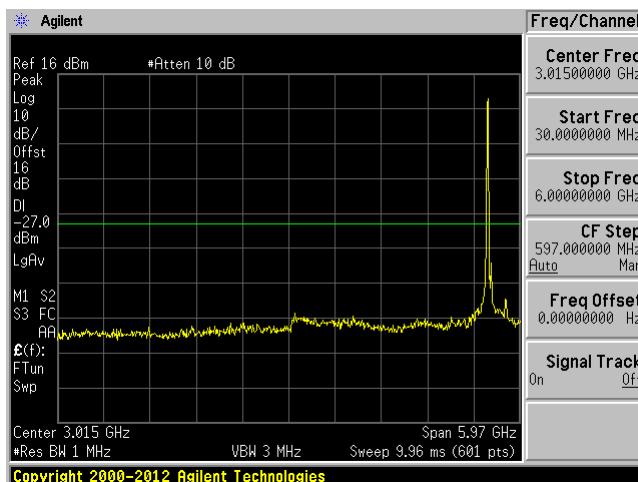
Low Channel 5500 MHz (30MHz-6GHz)



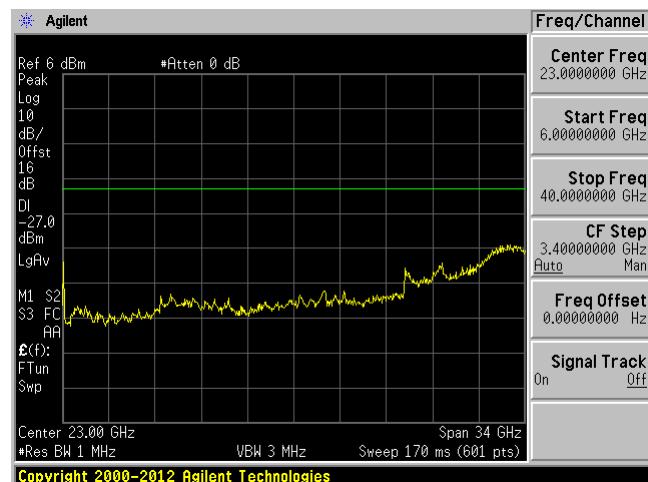
Low Channel 5500 MHz (6-40GHz)



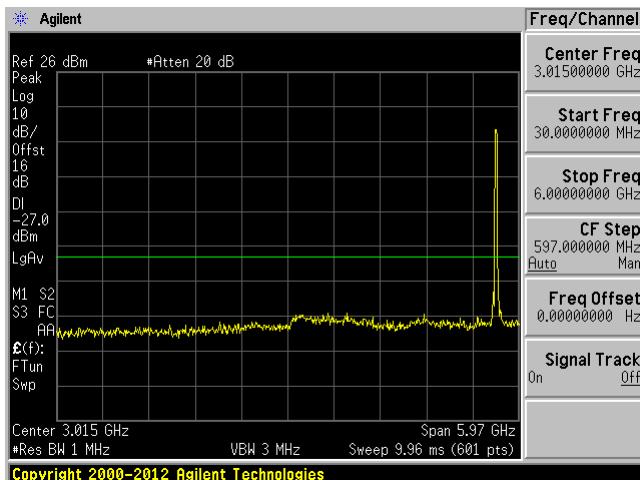
Middle Channel 5580 MHz (30MHz-6GHz)



Middle Channel 5580 MHz (6-40GHz)



High Channel 5700 MHz (30MHz-6GHz)

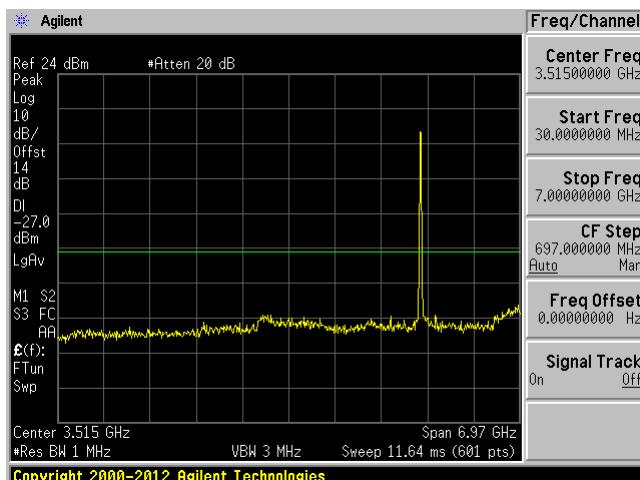


High Channel 5700 MHz (6-40GHz)

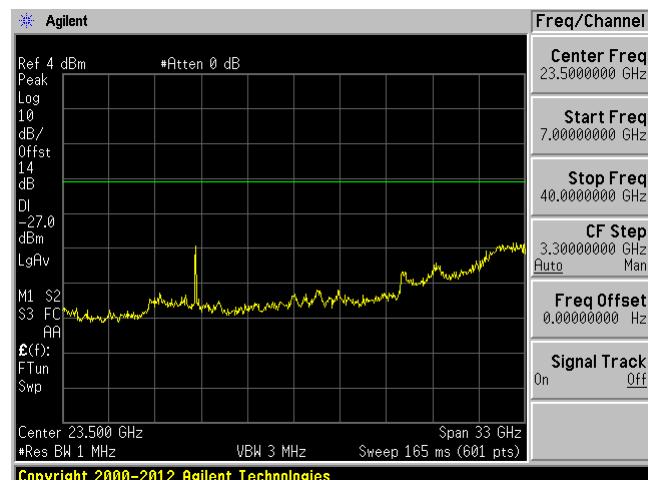


802.11a mode chain 2

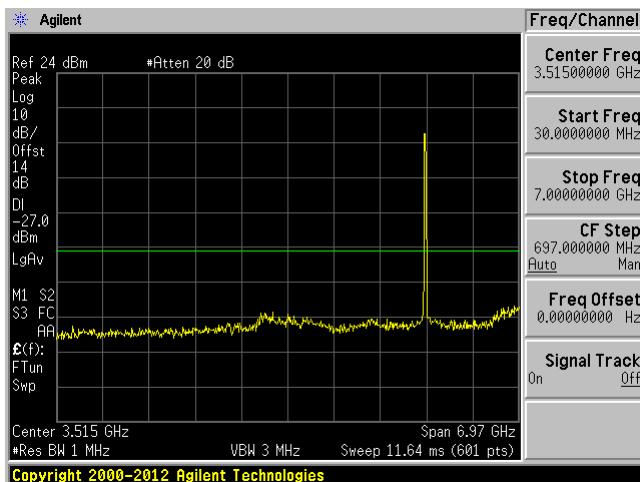
Low Channel 5500 MHz (30MHz-7GHz)



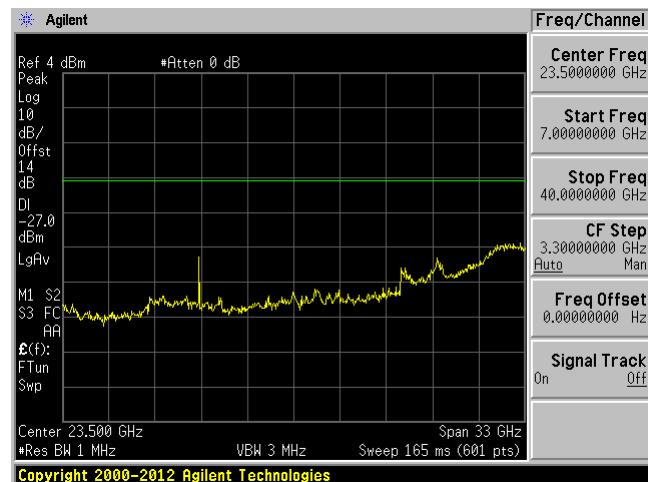
Low Channel 5500 MHz (7-40GHz)



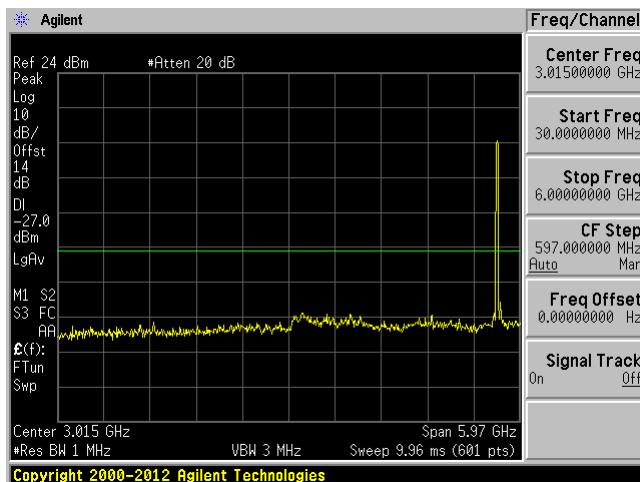
Middle Channel 5580 MHz (30MHz-7GHz)



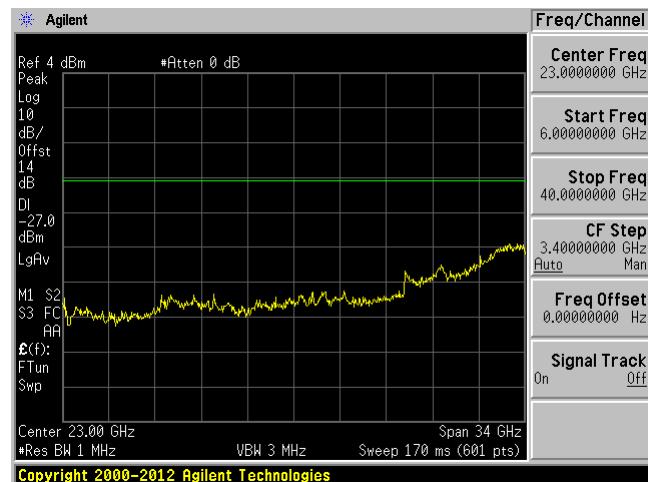
Middle Channel 5580 MHz (7-40GHz)



High Channel 5700 MHz (30MHz-6GHz)

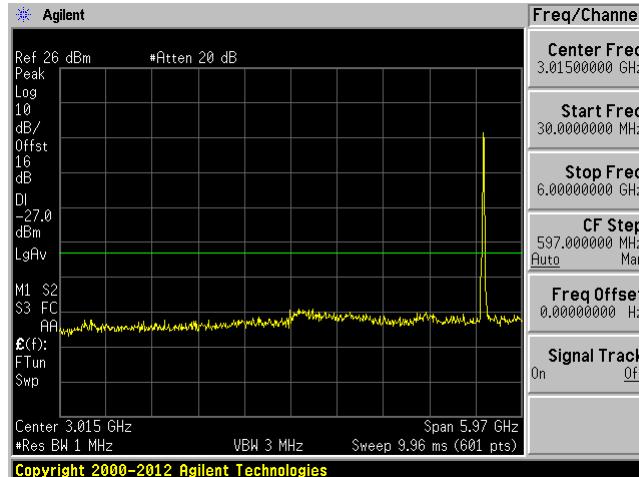


High Channel 5700 MHz (6-40GHz)

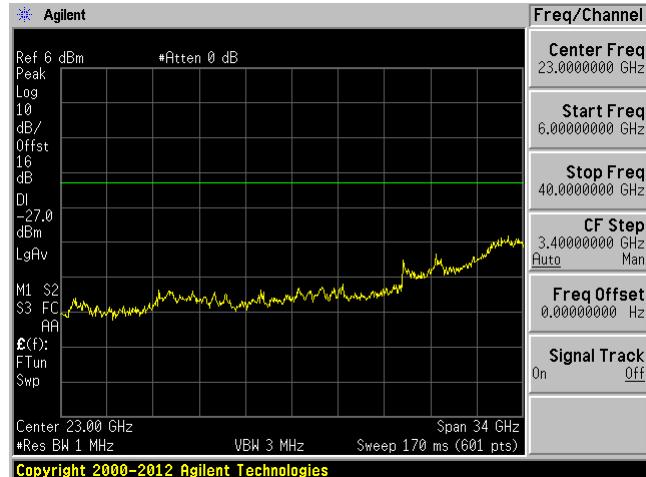


802.11n20 mode chain 1

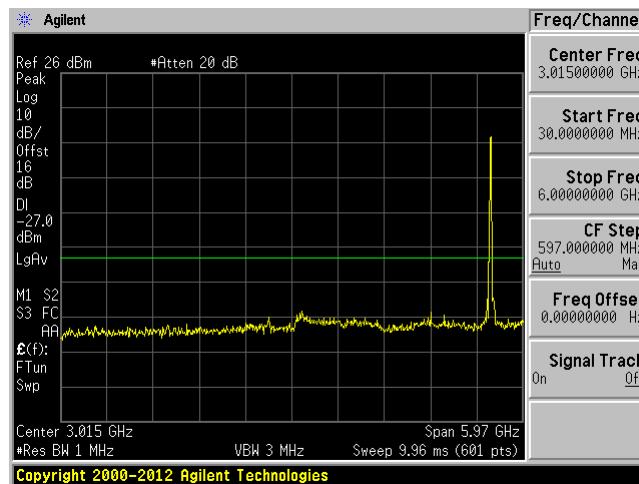
Low Channel 5500 MHz (30MHz-6GHz)



Low Channel 5500 MHz (6-40GHz)



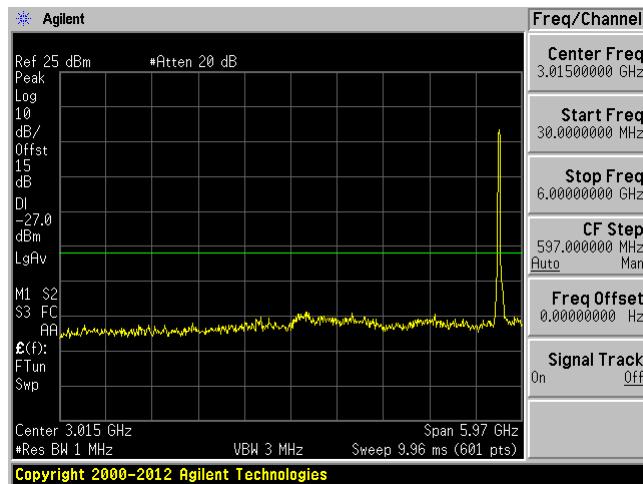
Middle Channel 5580 MHz (30MHz-6GHz)



Middle Channel 5580 MHz (6-40GHz)



High Channel 5700 MHz (30MHz-6GHz)

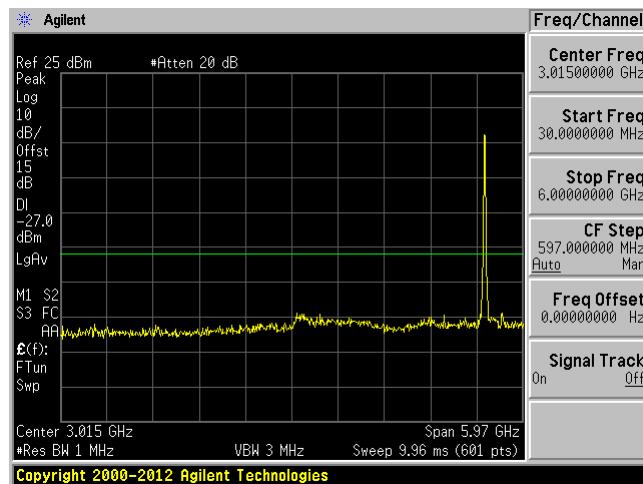


High Channel 5700 MHz (6-40GHz)



802.11n20 mode chain 2

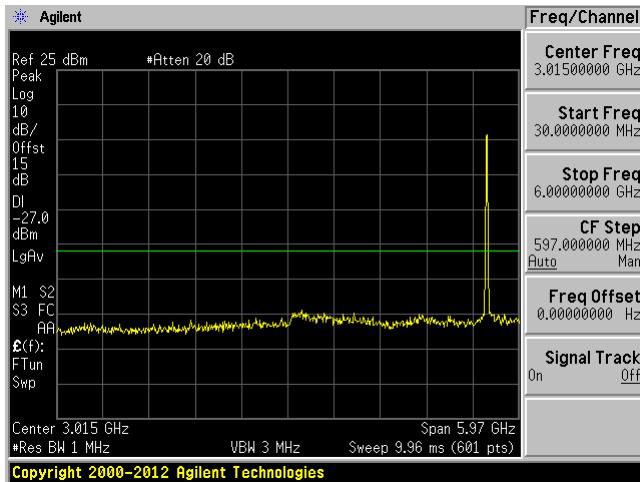
Low Channel 5500 MHz (30MHz-6GHz)



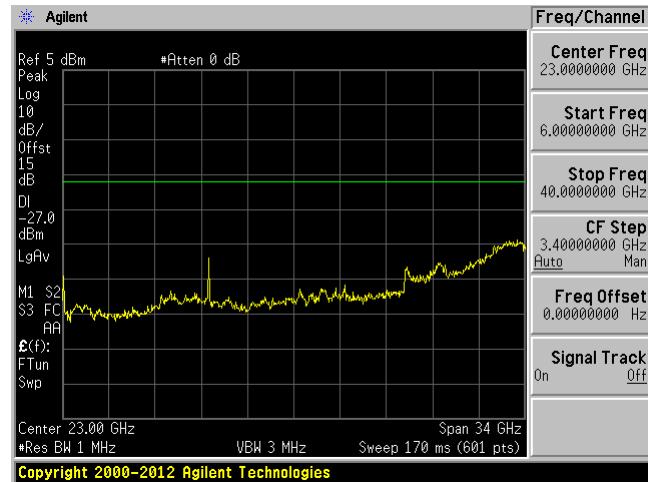
Low Channel 5500 MHz (6-40GHz)



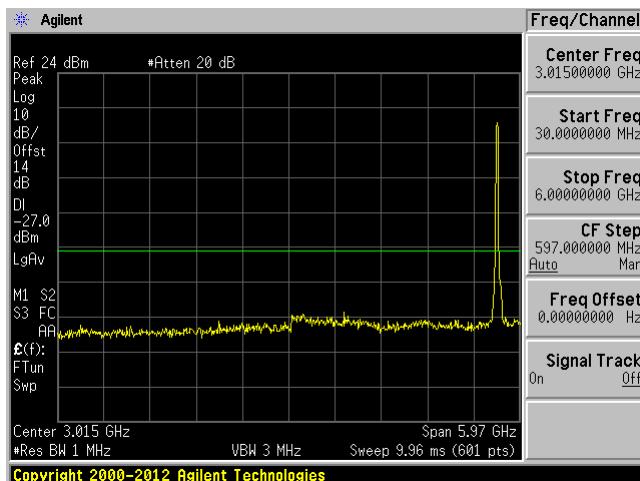
Middle Channel 5580 MHz (30MHz-6GHz)



Middle Channel 5580 MHz (6-40GHz)



High Channel 5700 MHz (30MHz-6GHz)

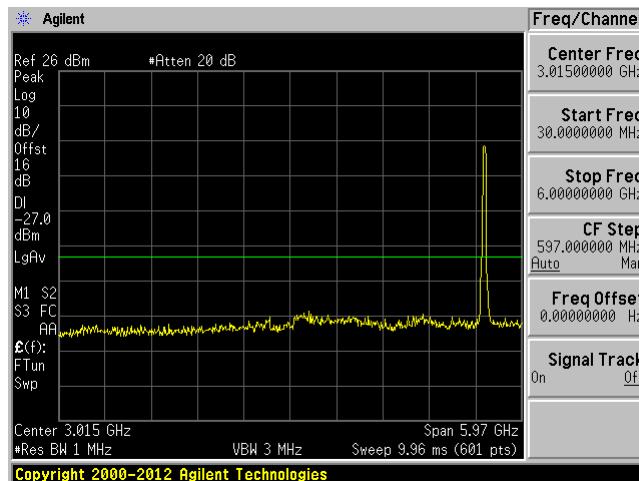


High Channel 5700 MHz (6-40GHz)



802.11n40 mode chain 1

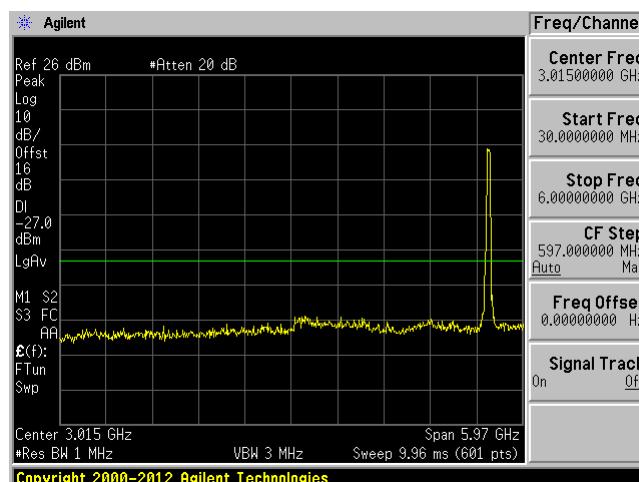
Low Channel 5510 MHz (30MHz-6GHz)



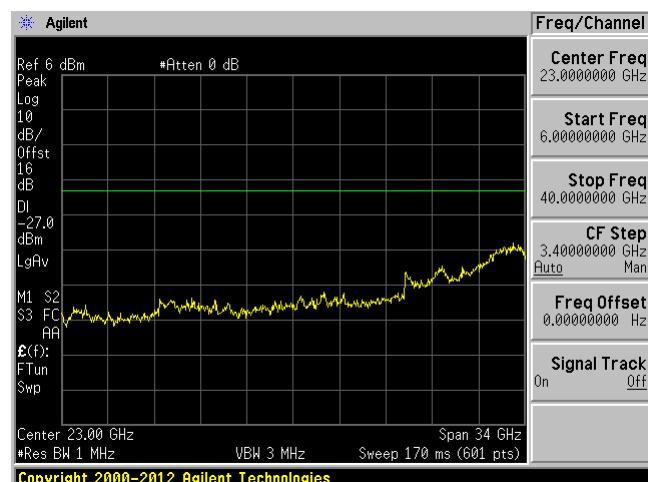
Low Channel 5510 MHz (6-40GHz)



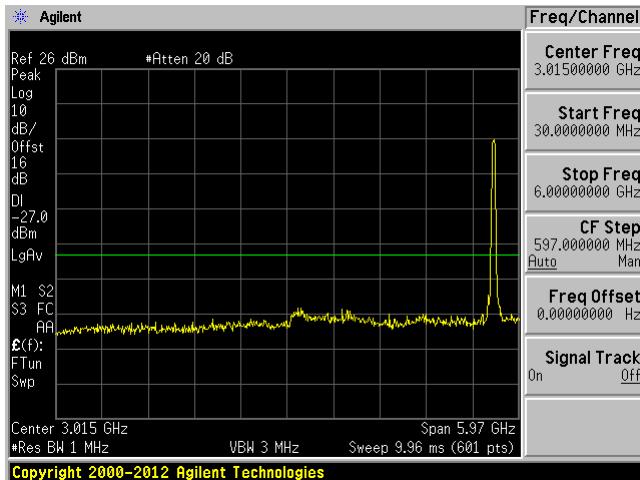
Middle Channel 5500 MHz (30MHz-6GHz)



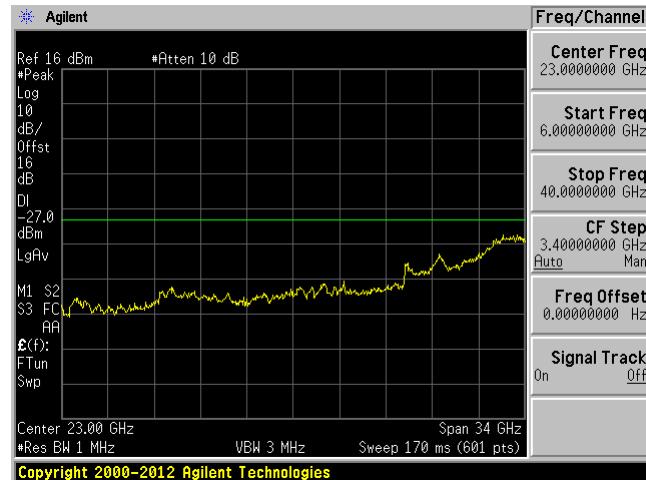
Middle Channel 5500 MHz (6-40GHz)



High Channel 5670 MHz (30MHz-6GHz)

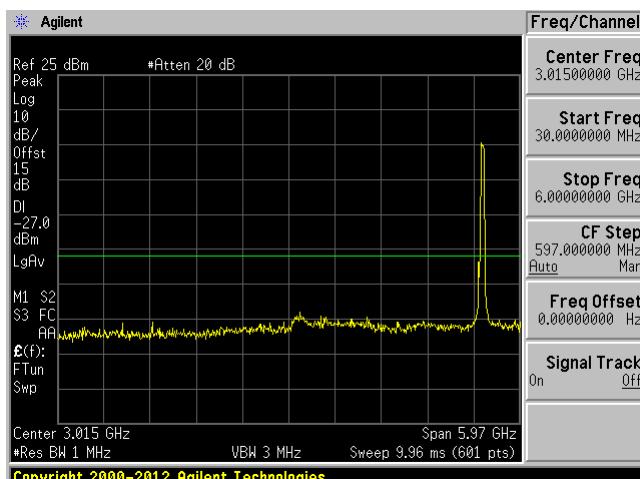


High Channel 5670 MHz (6-40GHz)

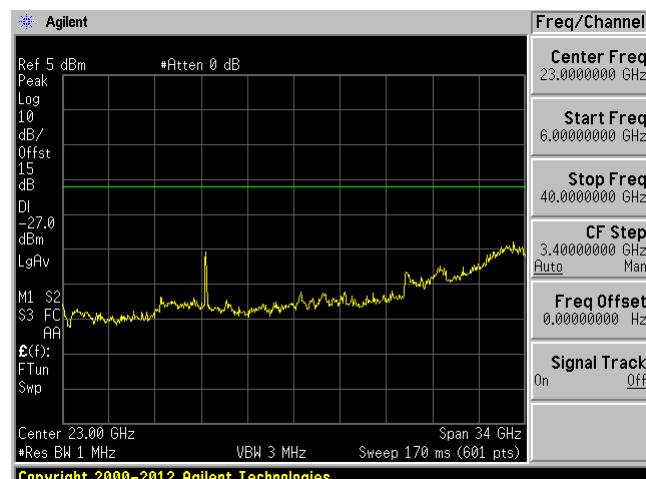


802.11n40 mode chain 2

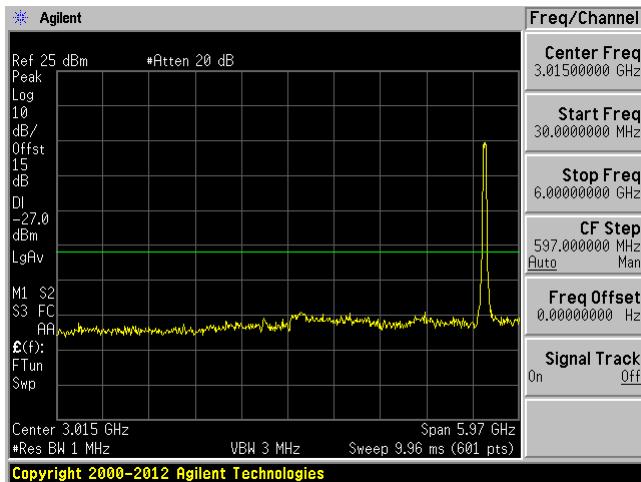
Low Channel 5510 MHz (30MHz-6GHz)



Low Channel 5510 MHz (6-40GHz)



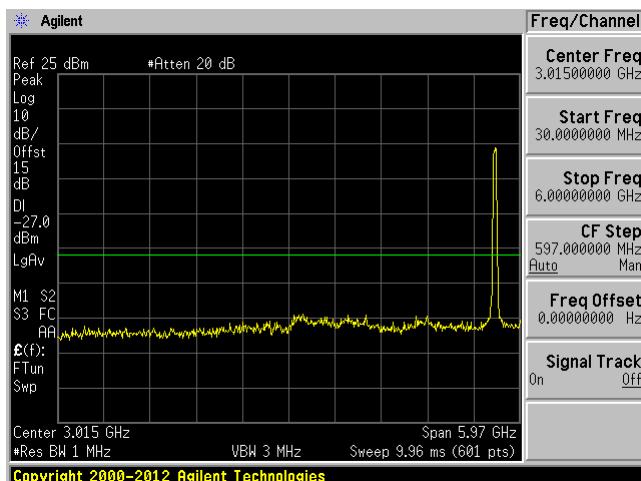
Middle Channel 5550 MHz (30MHz-6GHz)



Middle Channel 5550 MHz (6-40GHz)



High Channel 5670 MHz (30MHz-6GHz)

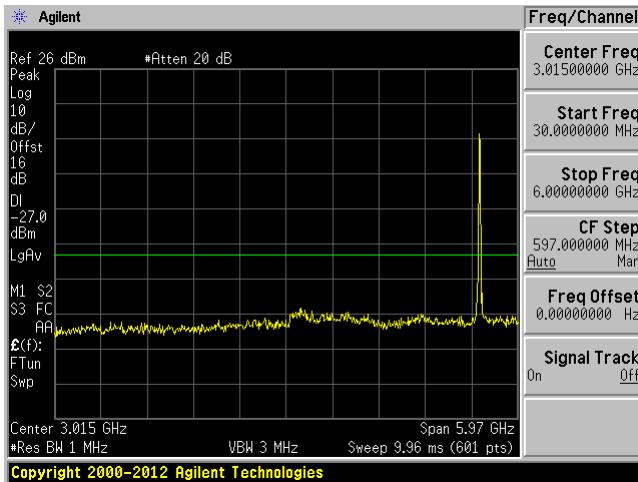


High Channel 5670 MHz (6-40GHz)

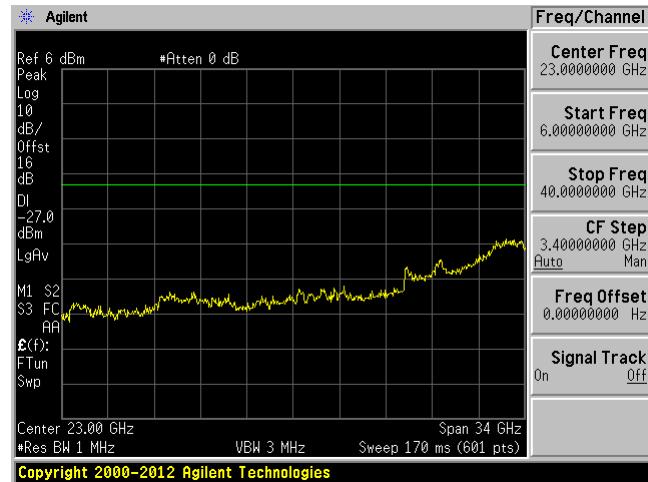


802.11ac20 mode chain 1

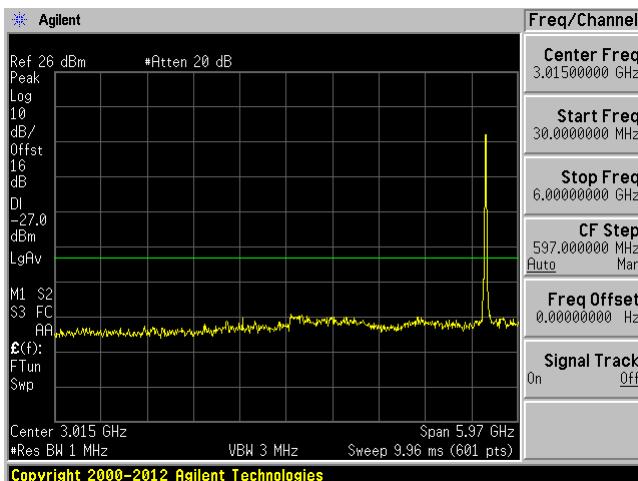
Low Channel 5500MHz (30MHz-6GHz)



Low Channel 5500 MHz (6-40GHz)



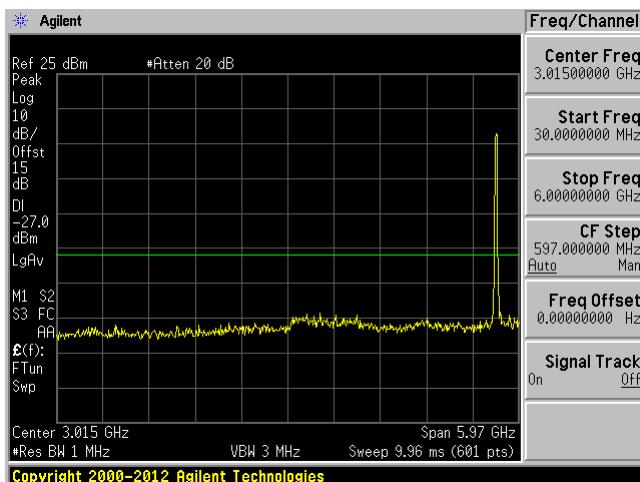
Middle Channel 5580 MHz (30MHz-6GHz)



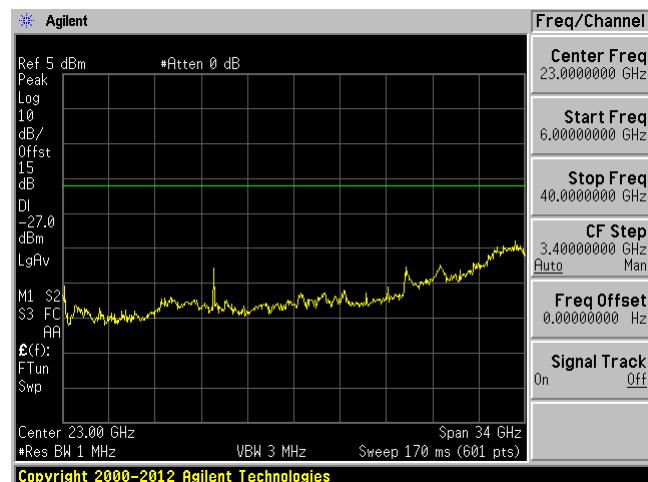
Middle Channel 5580 MHz (6GHz – 40GHz)



High Channel 5700 MHz (30MHz-6GHz)

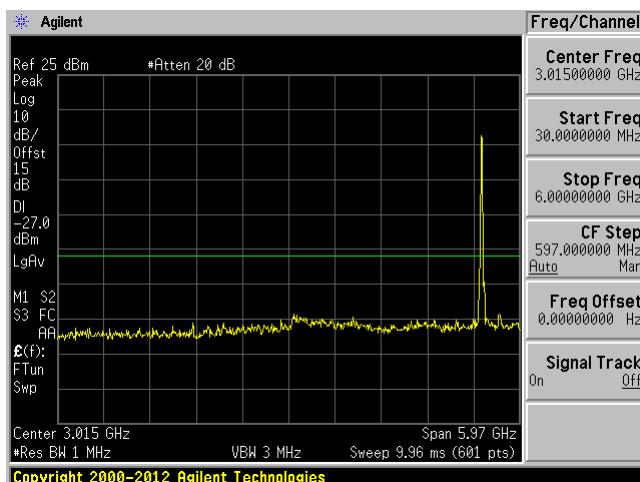


High Channel 5700 MHz (6GHz – 40GHz)

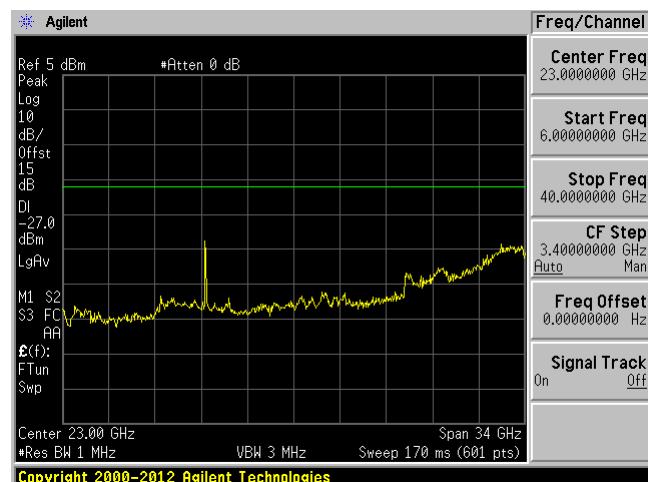


802.11ac20 mode chain 2

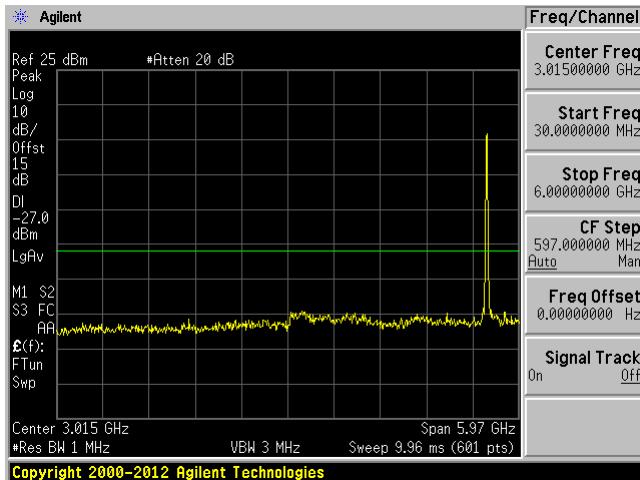
Low Channel 5500MHz (30MHz-6GHz)



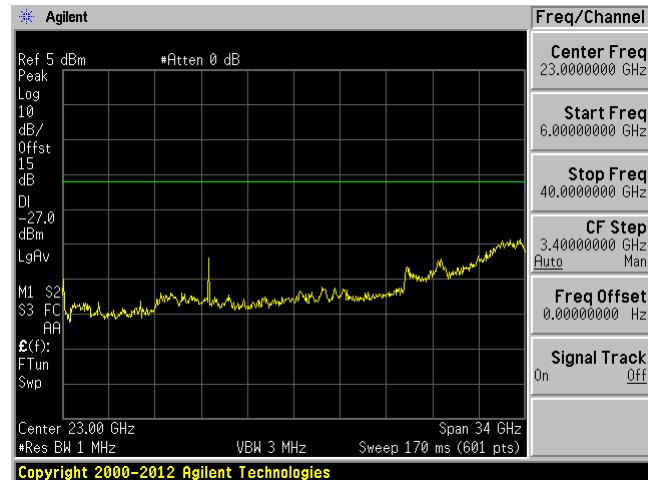
Low Channel 5500 MHz (6-40GHz)



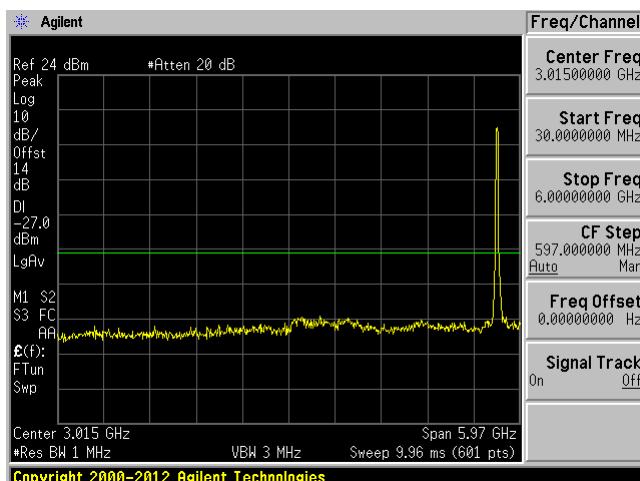
Middle Channel 5580MHz (30MHz-6GHz)



Middle Channel 5580 MHz (6GHz – 40GHz)



High Channel 5700 MHz (30MHz-6GHz)

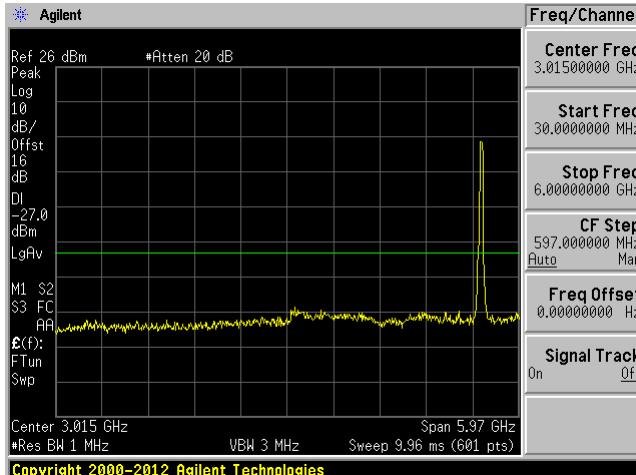


High Channel 5700 MHz (6GHz – 40GHz)



802.11ac40 mode chain 1

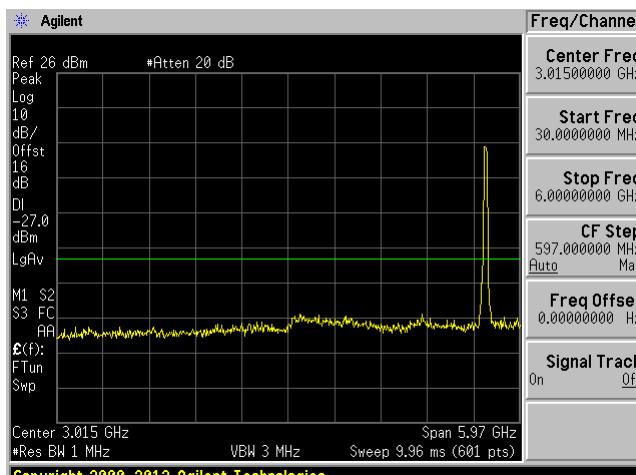
Low Channel 5510 MHz (30MHz-6GHz)



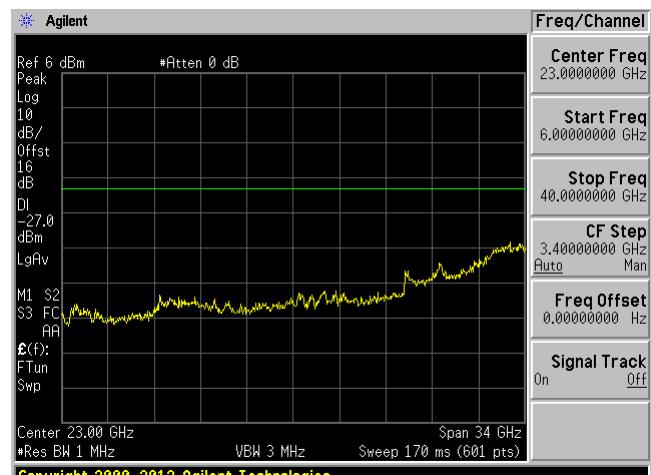
Low Channel 5510 MHz (6-40GHz)



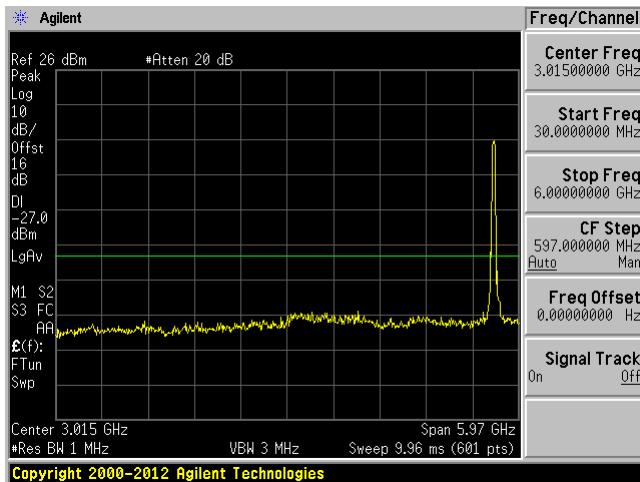
Middle Channel 5550 MHz (30MHz-6GHz)



Middle Channel 5550 MHz (6-40GHz)



High Channel 5670 MHz (30MHz-6GHz)

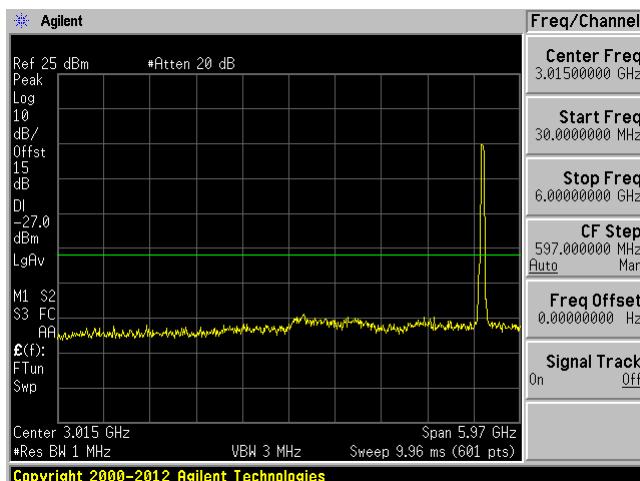


High Channel 5670 MHz (6-40GHz)

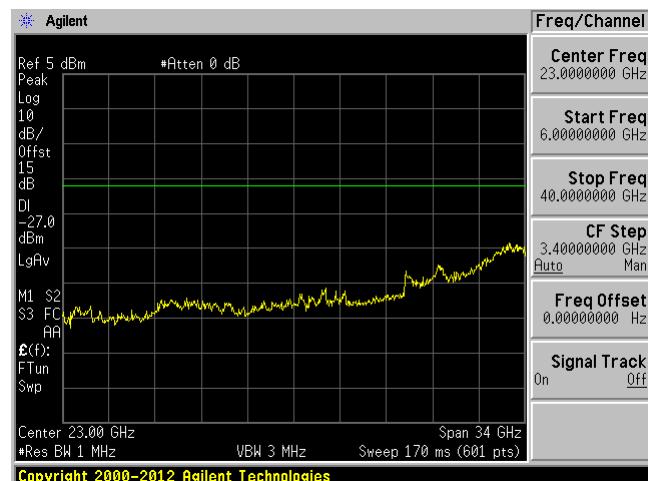


802.11ac40 mode chain 2

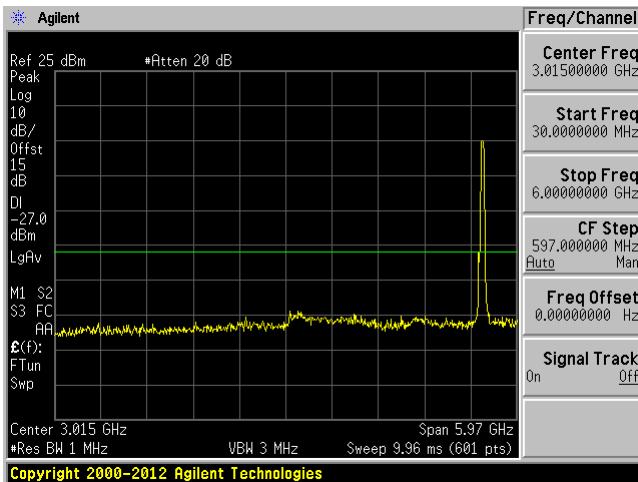
Low Channel 5510 MHz (30MHz-6GHz)



Low Channel 5510 MHz (6-40GHz)



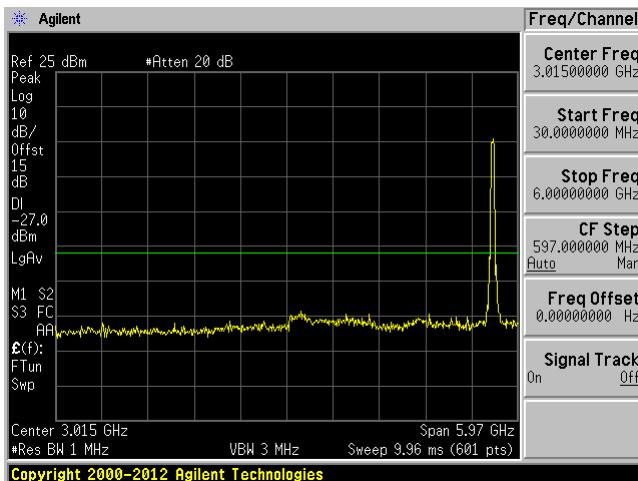
Middle Channel 5550 MHz (30MHz-6GHz)



Middle Channel 5550 MHz (6-40GHz)



High Channel 5670 MHz (30MHz-6GHz)

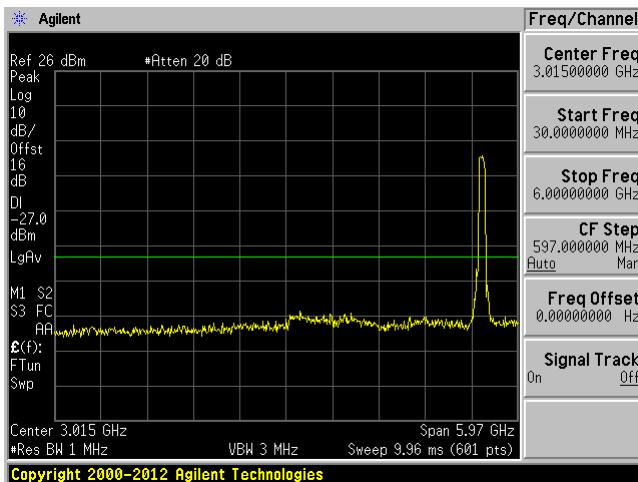


High Channel 5670 MHz (6-40GHz)



802.11ac80 mode chain 1

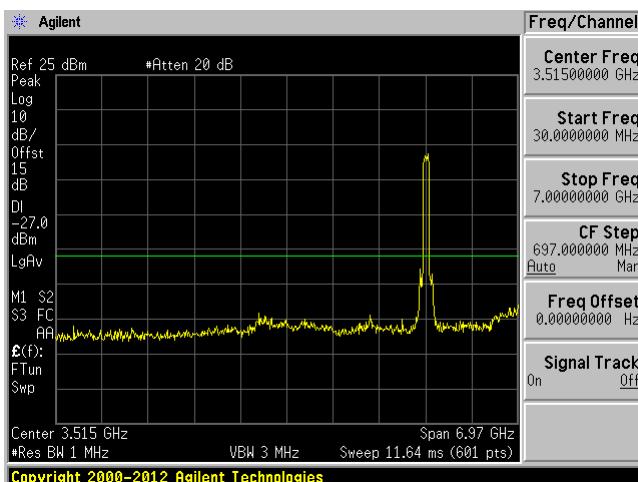
5530 MHz (30MHz-6GHz)



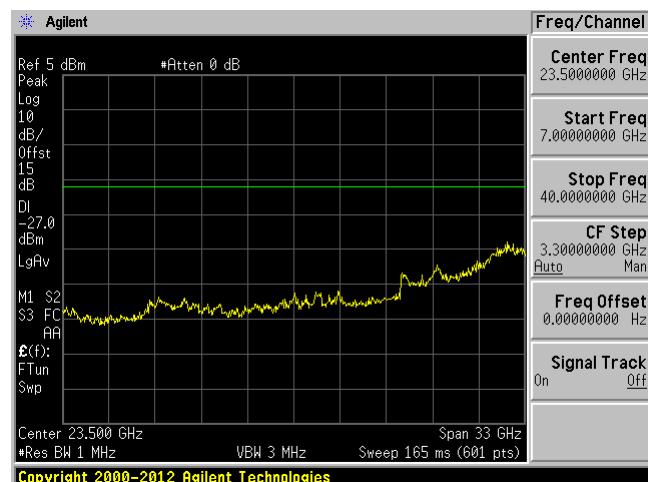
5530 MHz (6GHz – 40GHz)



5610 MHz (30MHz-7GHz)

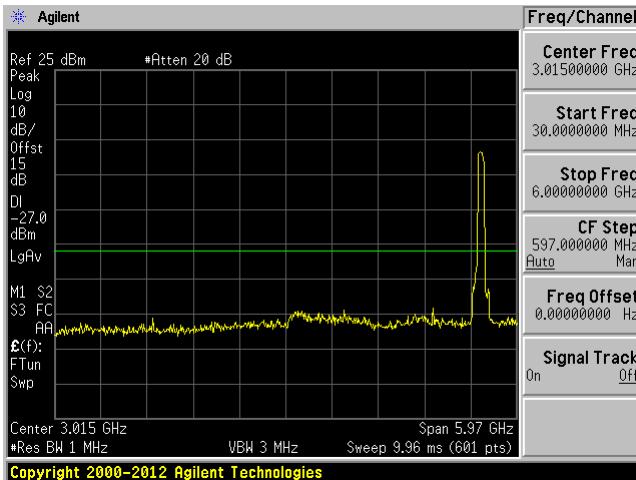


5610 MHz (7GHz – 40GHz)



802.11ac80 mode chain 2

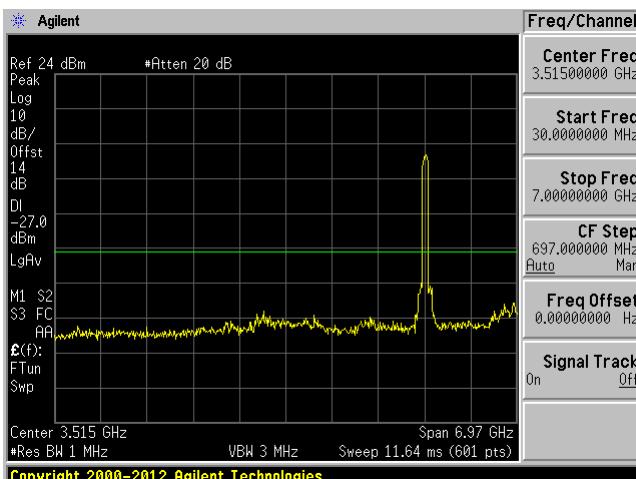
5530 MHz (30MHz-6GHz)



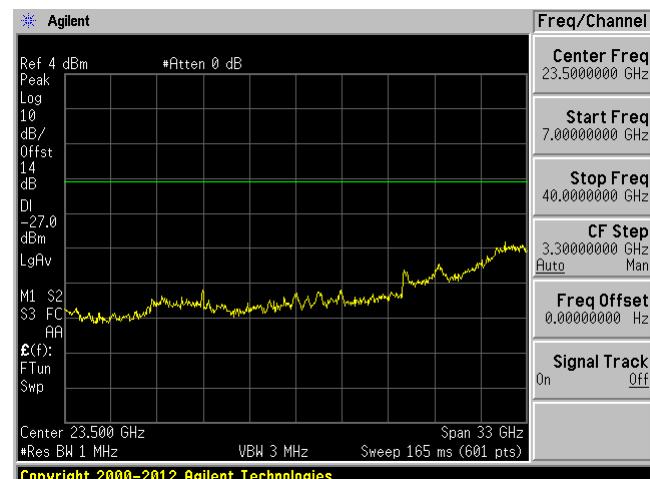
5530 MHz (6GHz – 40GHz)



5610 MHz (30MHz-7GHz)

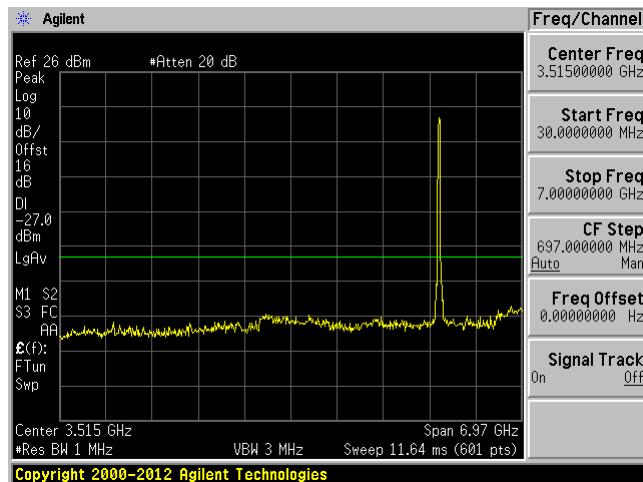


5610 MHz (7GHz – 40GHz)



5725 – 5850 MHz**802.11a mode chain 1**

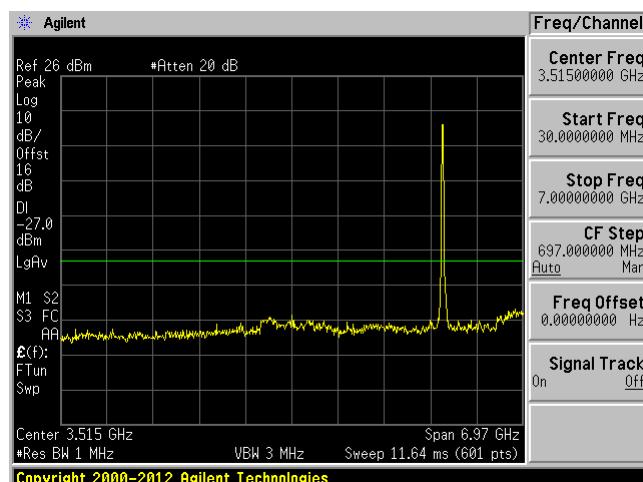
Low Channel 5745 MHz (30MHz-7GHz)



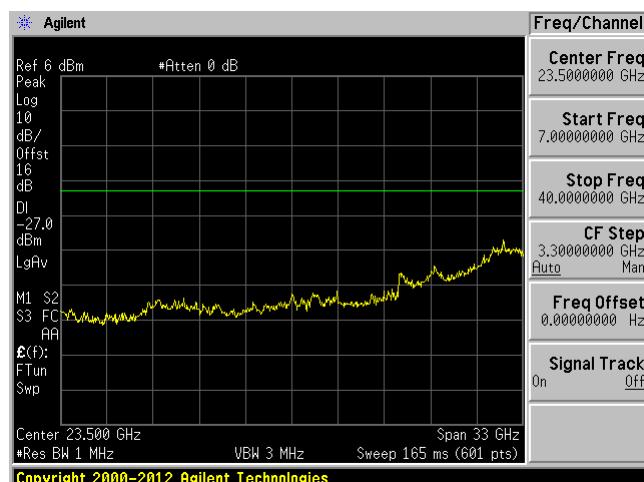
Low Channel 5745 MHz (7-40GHz)



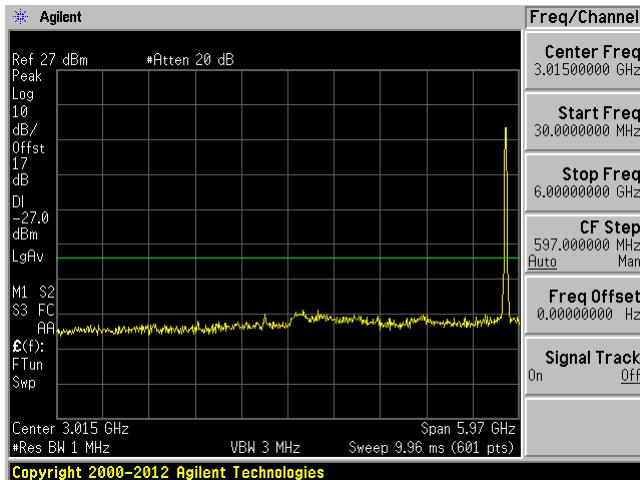
Middle Channel 5785 MHz (30MHz-7GHz)



Middle Channel 5785 MHz (7-40GHz)



High Channel 5825 MHz (30MHz-6GHz)

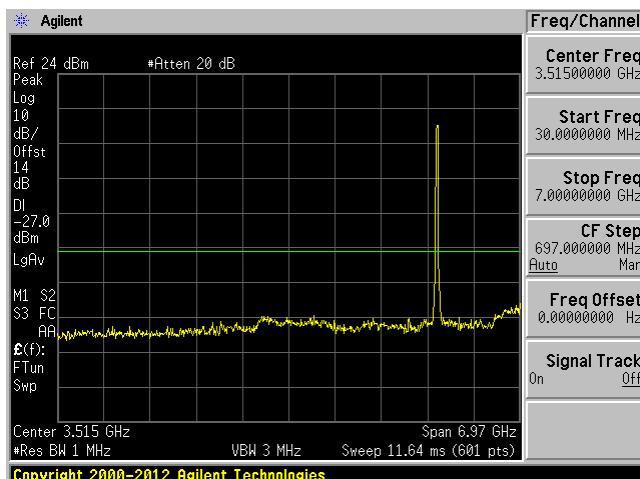


High Channel 5825 MHz (6-40GHz)

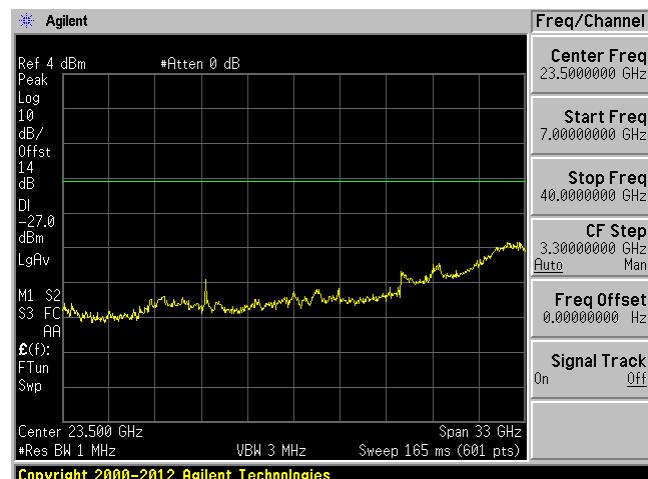


802.11a mode chain 2

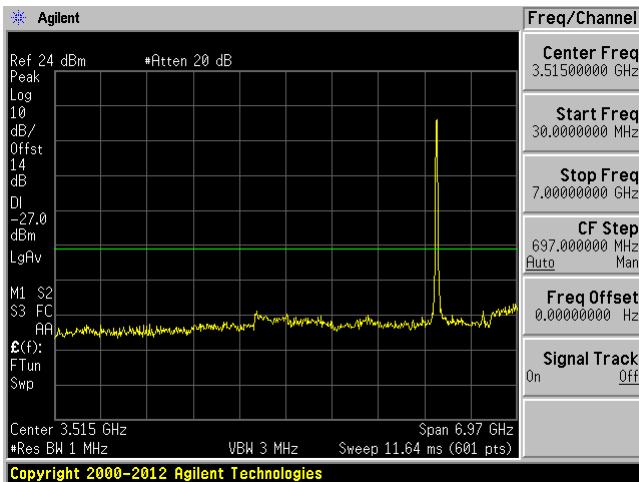
Low Channel 5745 MHz (30MHz-7GHz)



Low Channel 5745 MHz (7-40GHz)



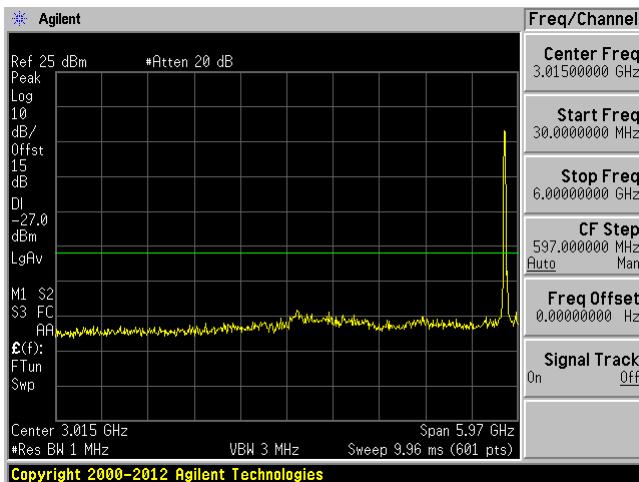
Middle Channel 5785 MHz (30MHz-7GHz)



Middle Channel 5785 MHz (7-40GHz)



High Channel 5825 MHz (30MHz-6GHz)

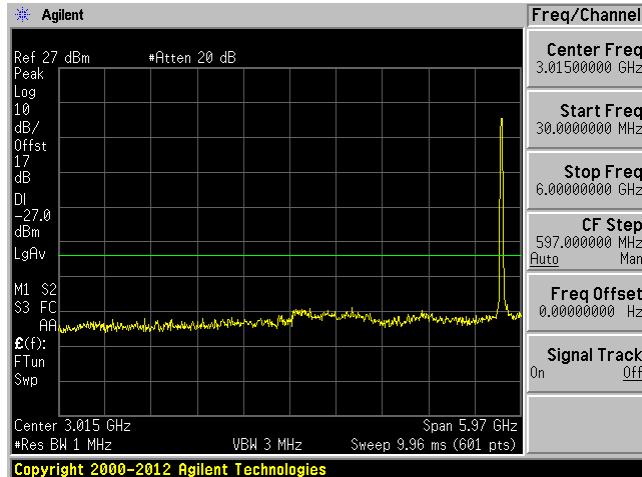


High Channel 5825 MHz (6-40GHz)



802.11n20 mode chain 1

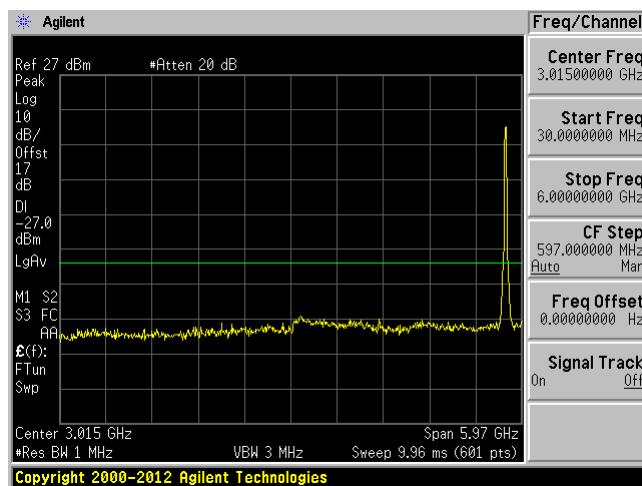
Low Channel 5745 MHz (30MHz-6GHz)



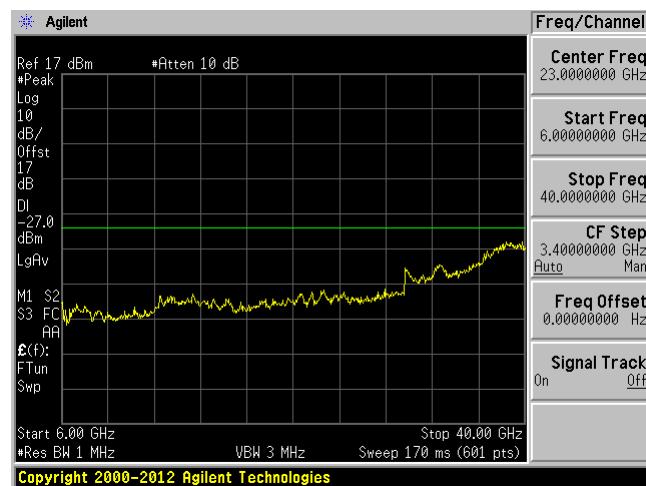
Low Channel 5745 MHz (6-40GHz)



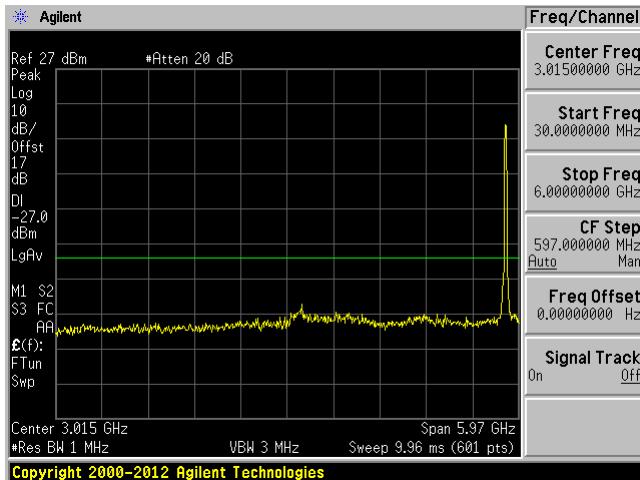
Middle Channel 5785 MHz (30MHz-6GHz)



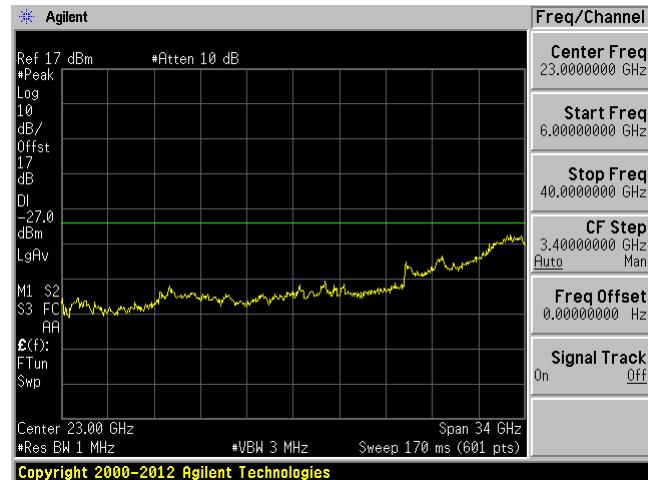
Middle Channel 5785 MHz (6-40GHz)



High Channel 5825 MHz (30MHz-6GHz)

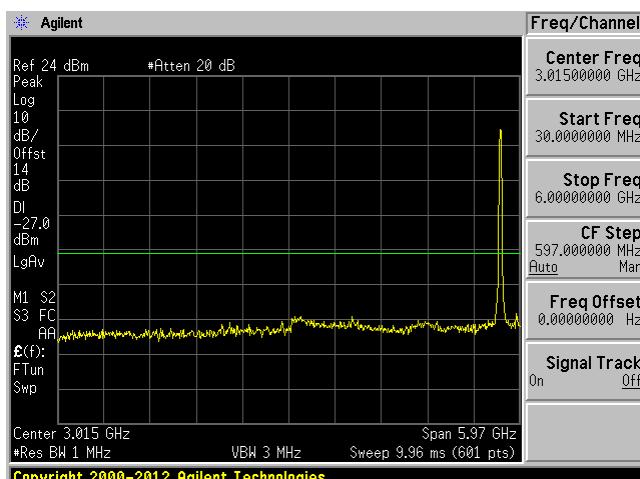


High Channel 5825 MHz (6-40GHz)

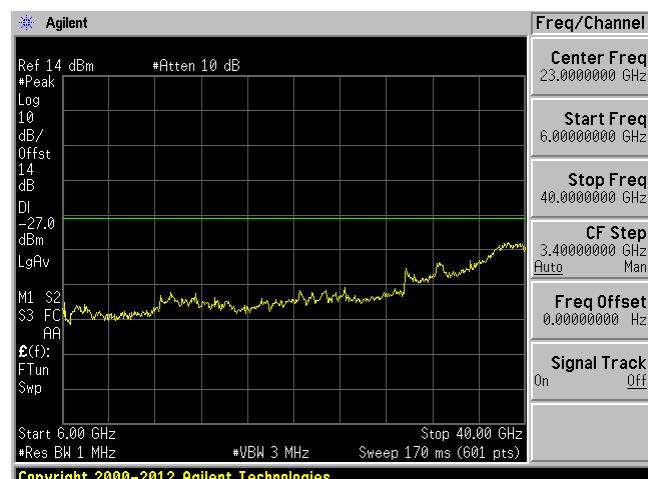


802.11n20 mode chain 2

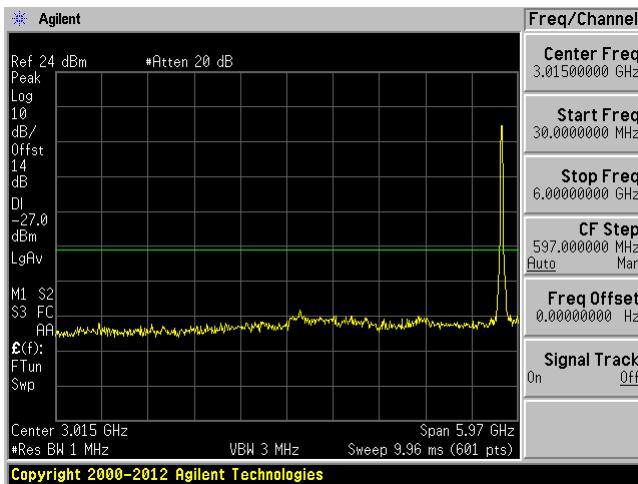
Low Channel 5745 MHz (30MHz-6GHz)



Low Channel 5745 MHz (6-40GHz)



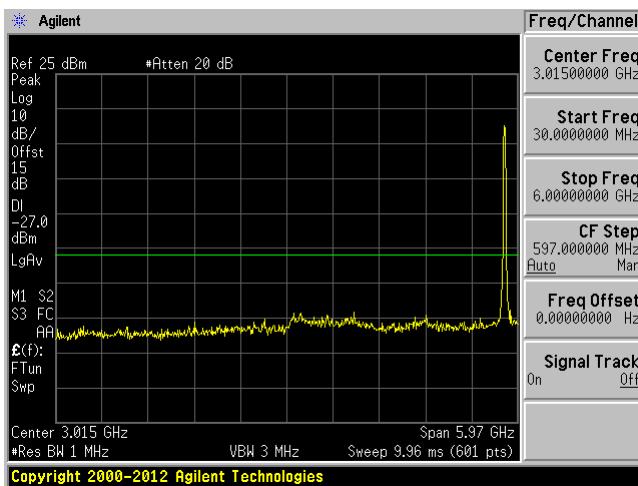
Middle Channel 5785 MHz (30MHz-6GHz)



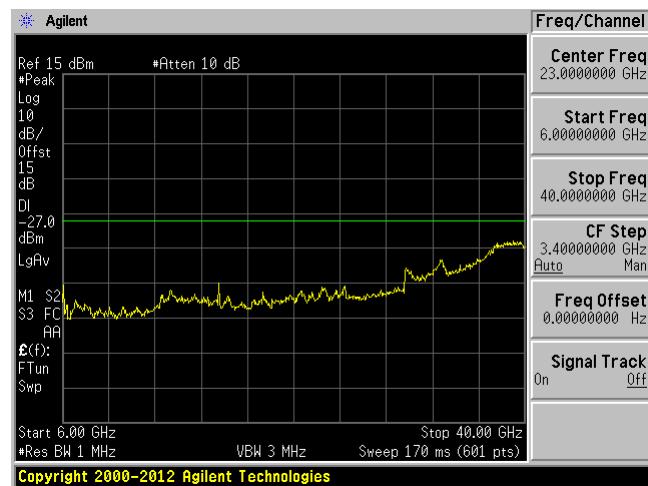
Middle Channel 5785 MHz (6-40GHz)



High Channel 5825 MHz (30MHz-6GHz)

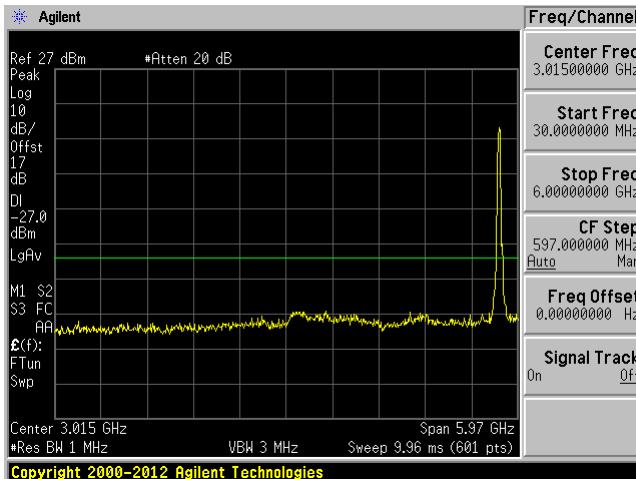


High Channel 5825 MHz (6-40GHz)

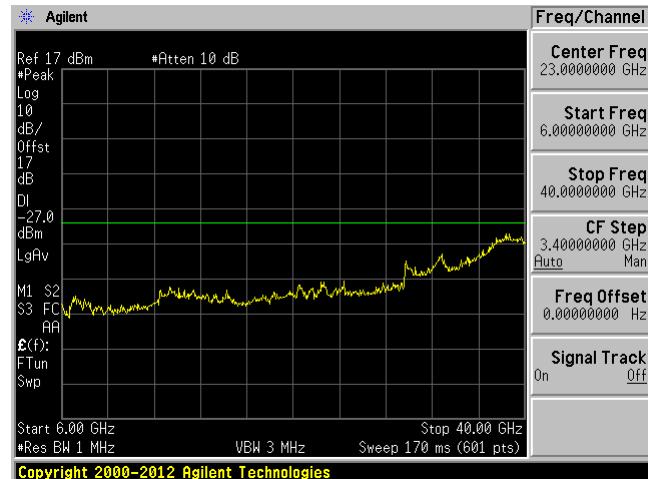


802.11n40 mode chain 1

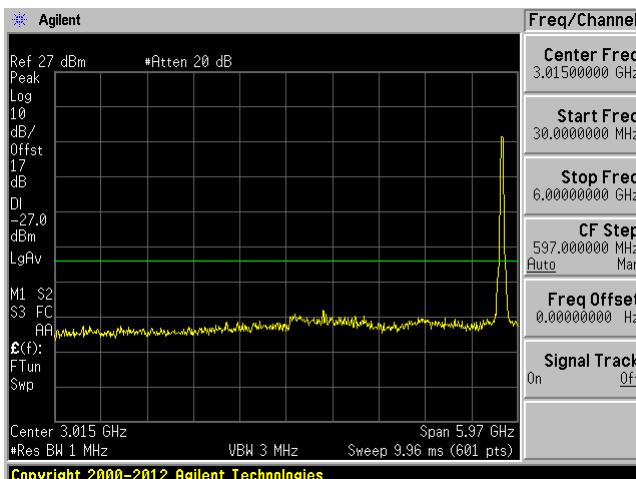
Low Channel 5755 MHz (30MHz-6GHz)



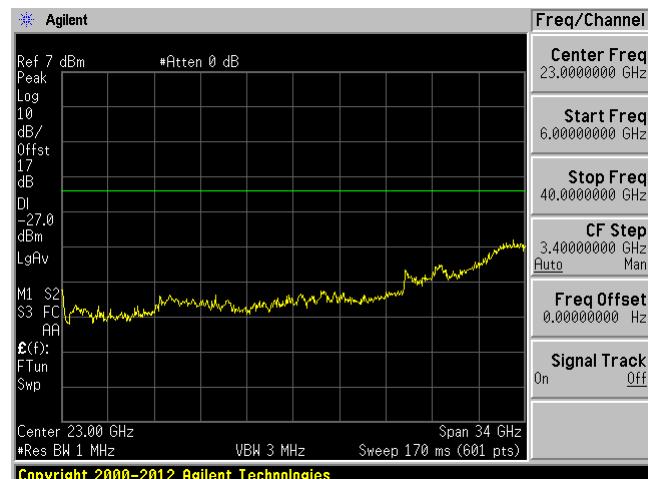
Low Channel 5755 MHz (6-40GHz)



High Channel 5795 MHz (30MHz-6GHz)

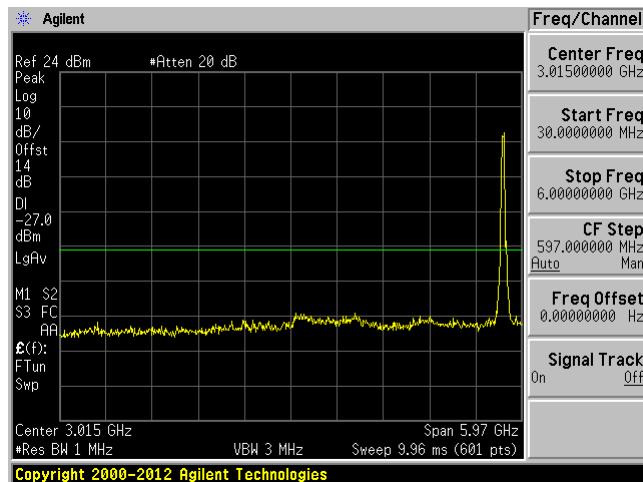


High Channel 5795 MHz (6-40GHz)



802.11n40 mode chain 2

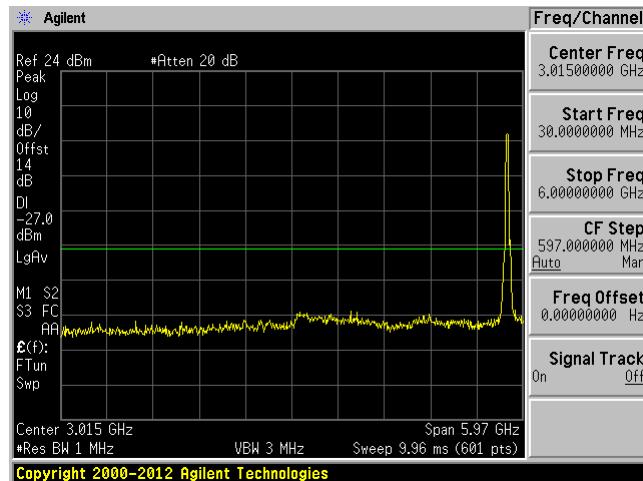
Low Channel 5755 MHz (30MHz-6GHz)



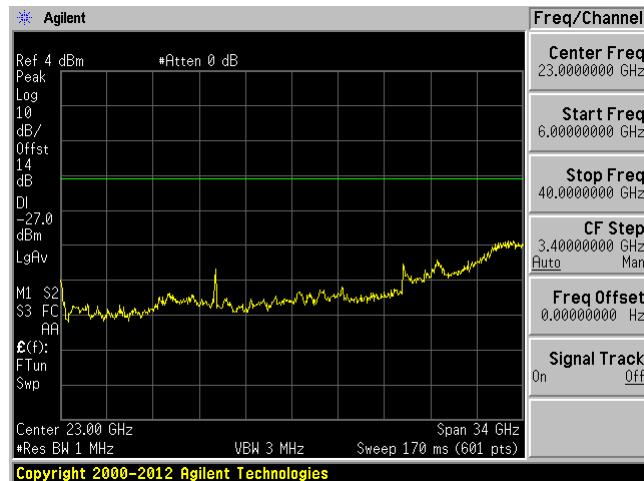
Low Channel 5755 MHz (6-40GHz)



High Channel 5795 MHz (30MHz-6GHz)

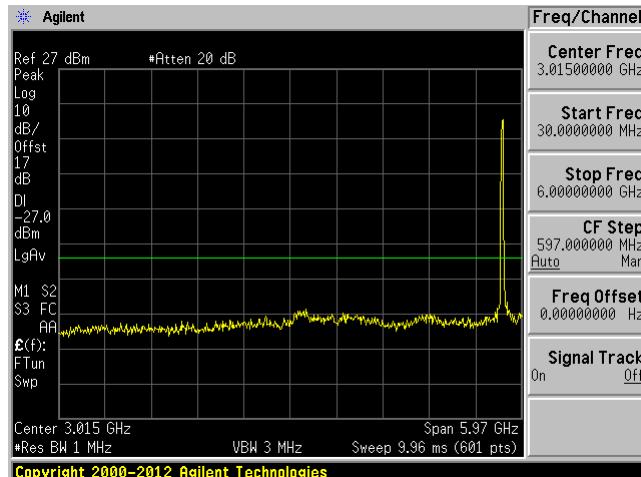


High Channel 5795 MHz (6-40GHz)



802.11ac20 mode chain 1

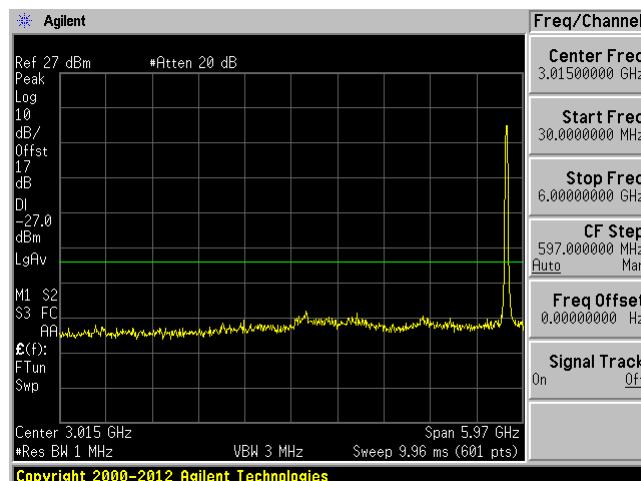
Low Channel 5745 MHz (30MHz-6GHz)



Low Channel 5745 MHz (6-40GHz)



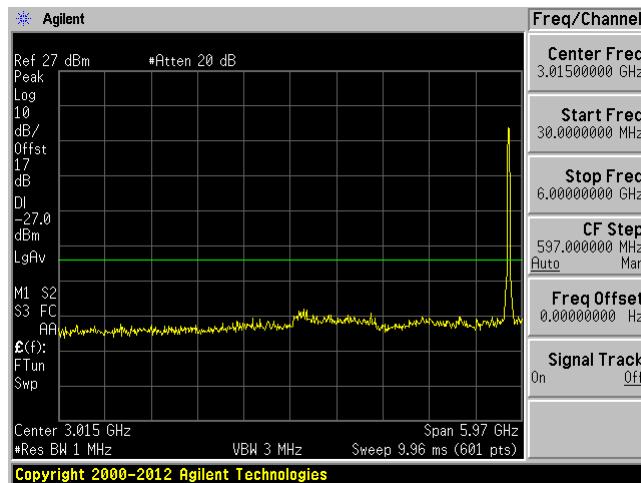
Middle Channel 5785 MHz (30MHz-6GHz)



Middle Channel 5785 MHz (6-40GHz)



High Channel 5825 MHz (30MHz-6GHz)

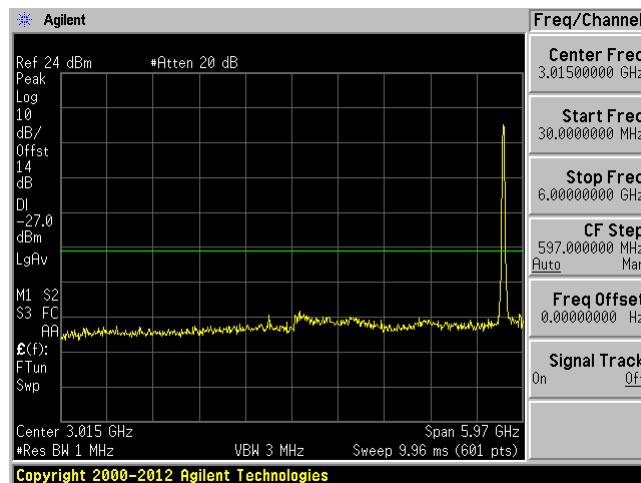


High Channel 5825 MHz (6-40GHz)



802.11ac20 mode chain 2

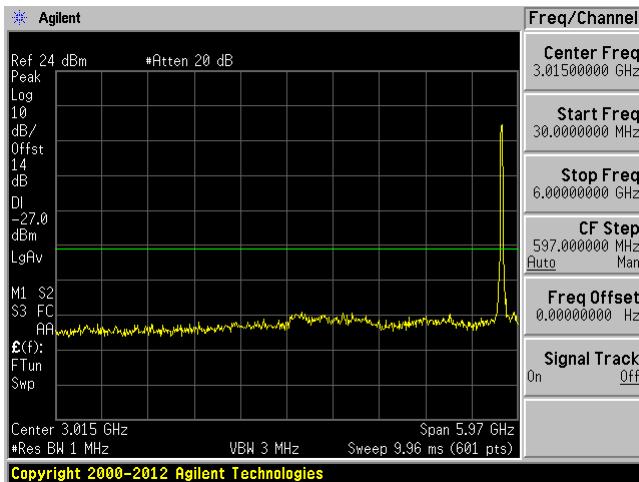
Low Channel 5745 MHz (30MHz-6GHz)



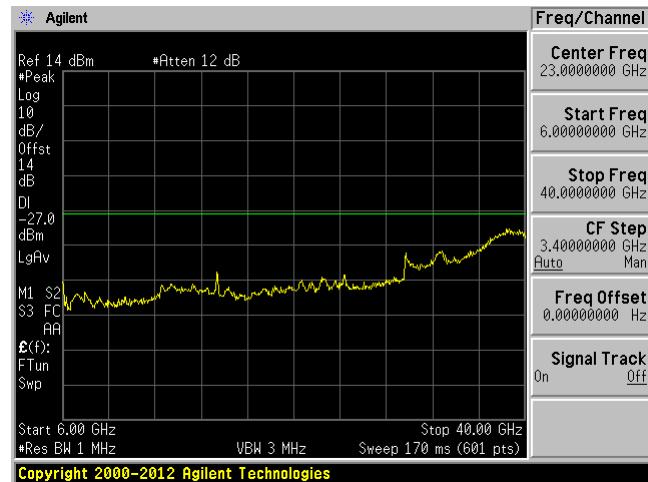
Low Channel 5745 MHz (6-40GHz)



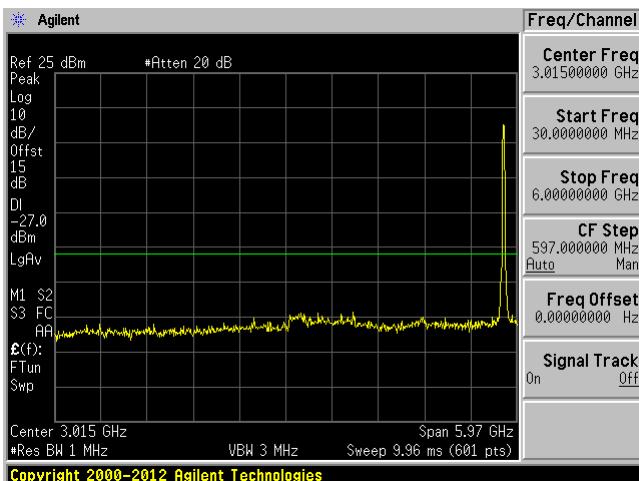
Middle Channel 5785 MHz (30MHz-6GHz)



Middle Channel 5785 MHz (6-40GHz)



High Channel 5825 MHz (30MHz-6GHz)

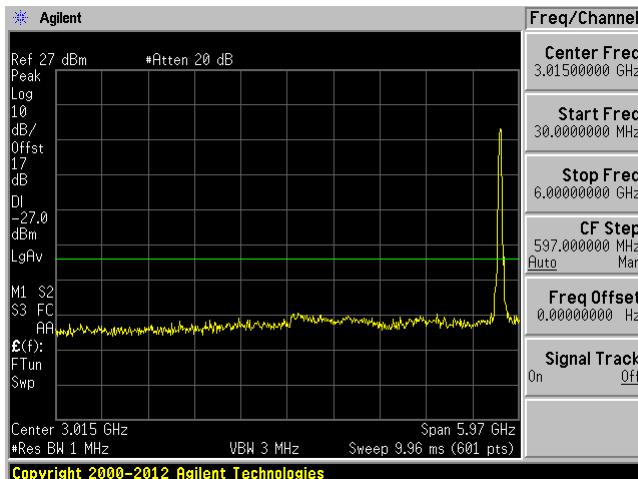


High Channel 5825 MHz (6-40GHz)



802.11ac40 mode chain 1

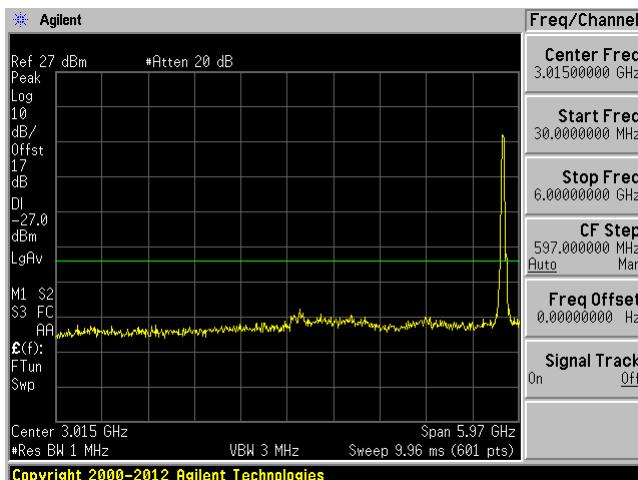
Low Channel 5755 MHz (30MHz-6GHz)



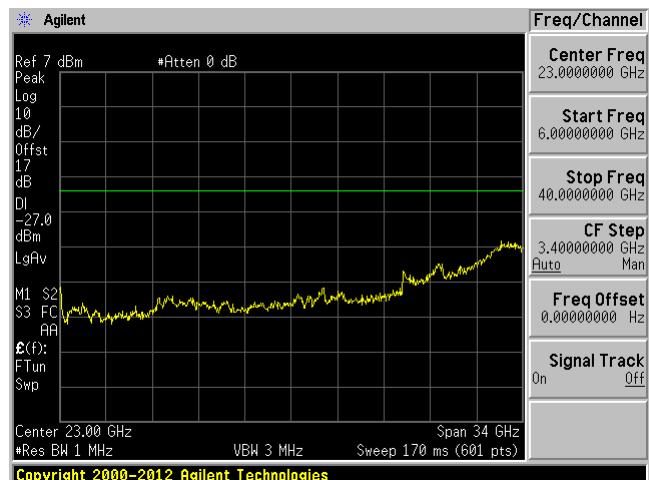
Low Channel 5755 MHz (6-40GHz)



High Channel 5795 MHz (30MHz-6GHz)

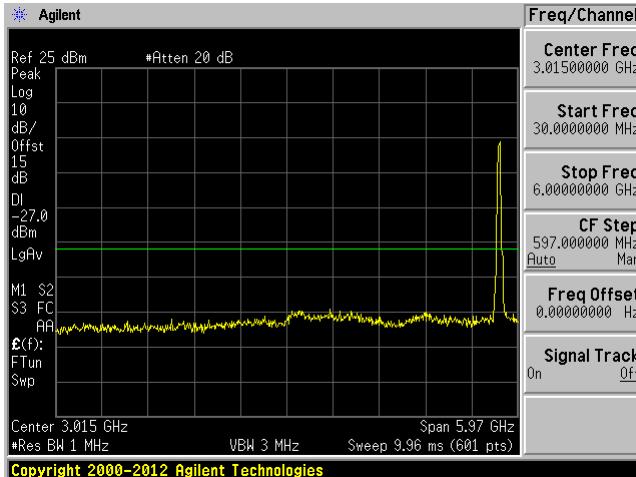


High Channel 5795 MHz (6-40GHz)

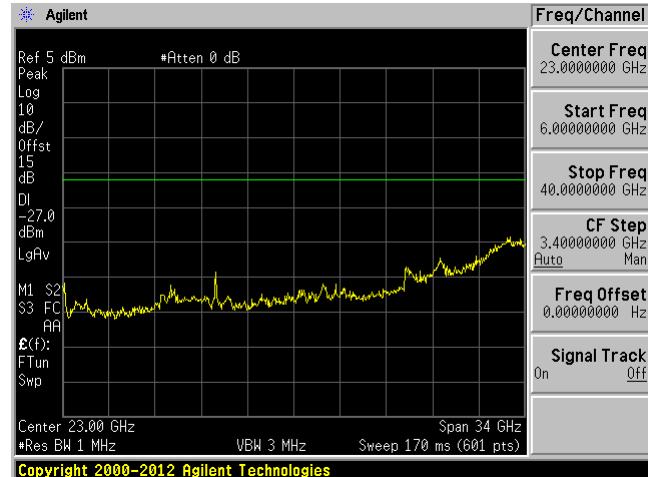


802.11ac40 mode chain 2

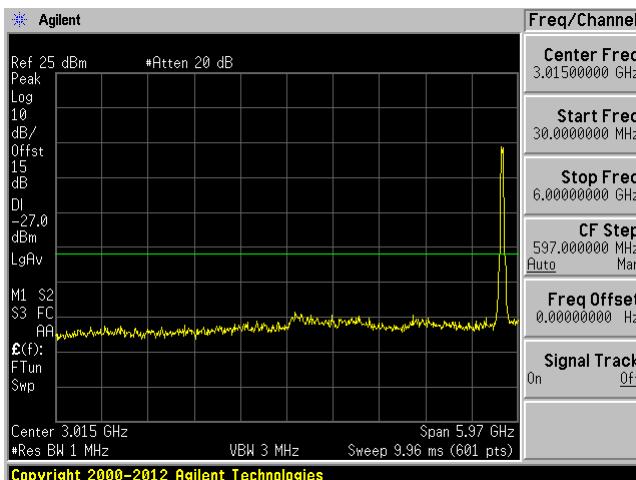
Low Channel 5755 MHz (30MHz-6GHz)



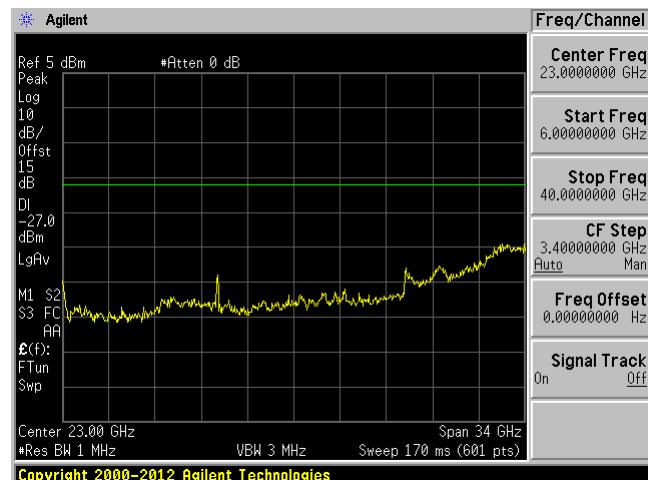
Low Channel 5755 MHz (6-40GHz)



High Channel 5795 MHz (30MHz-6GHz)

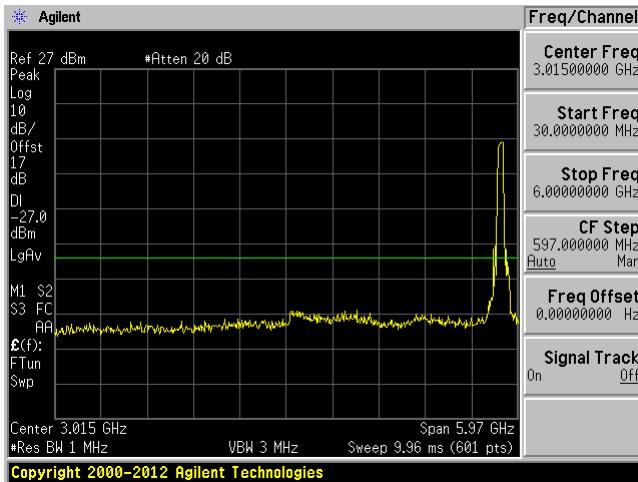


High Channel 5795 MHz (6-40GHz)



802.11ac80 mode chain 1

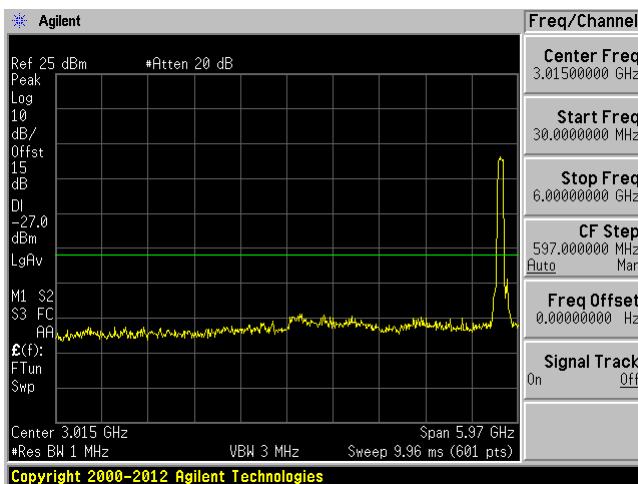
5755 MHz (30MHz-6GHz)



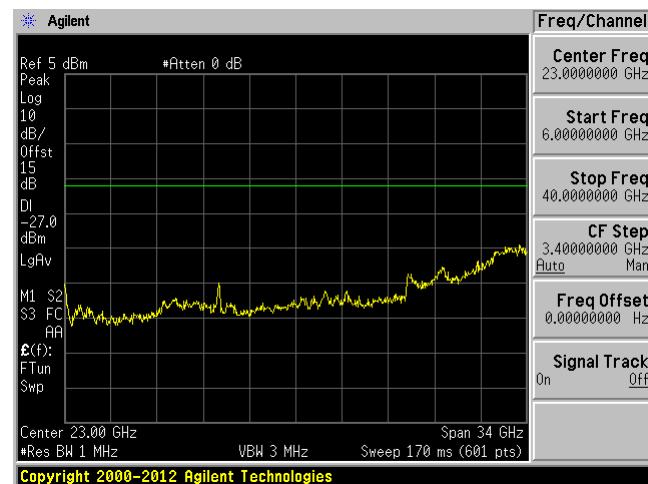
5755 MHz (6GHz – 40GHz)

**802.11ac80 mode chain 2**

5755 MHz (30MHz-6GHz)



5755 MHz (6GHz – 40GHz)



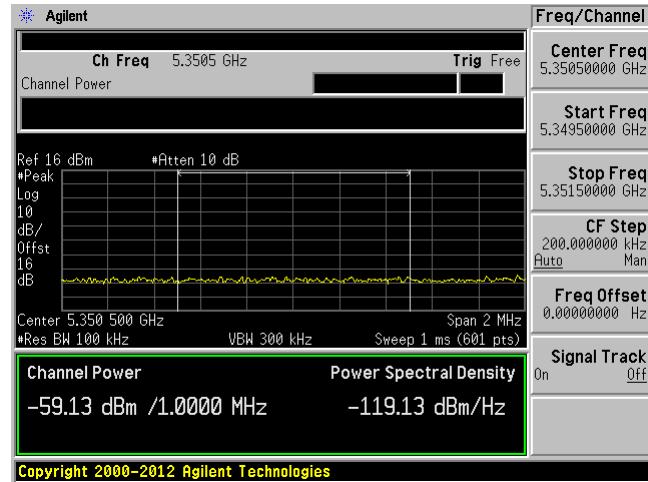
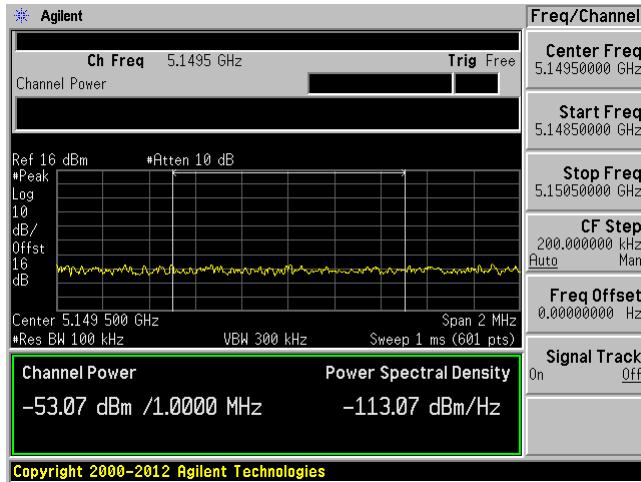
2) Band Edge Emissions

5150 - 5250 MHz

802.11a mode chain 1

Low Channel: 5180 MHz

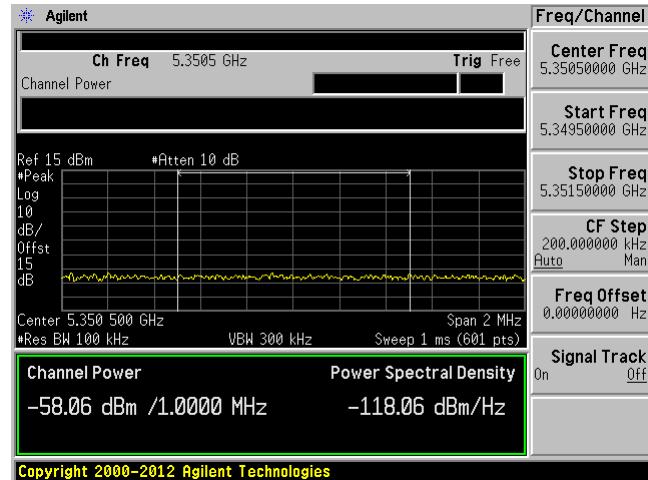
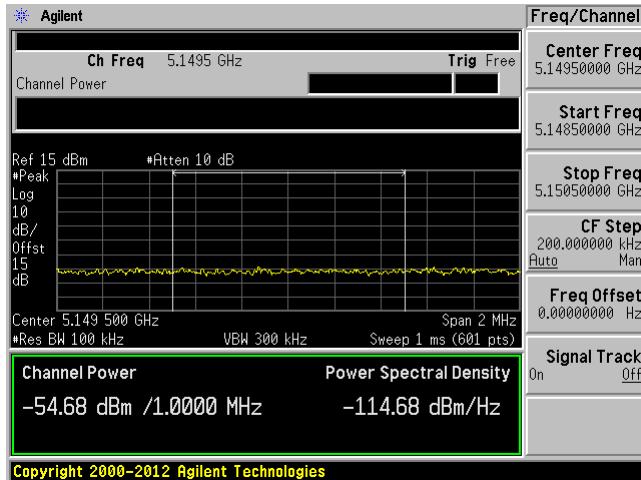
High channel: 5240 MHz



802.11a mode chain 2

Low Channel: 5180 MHz

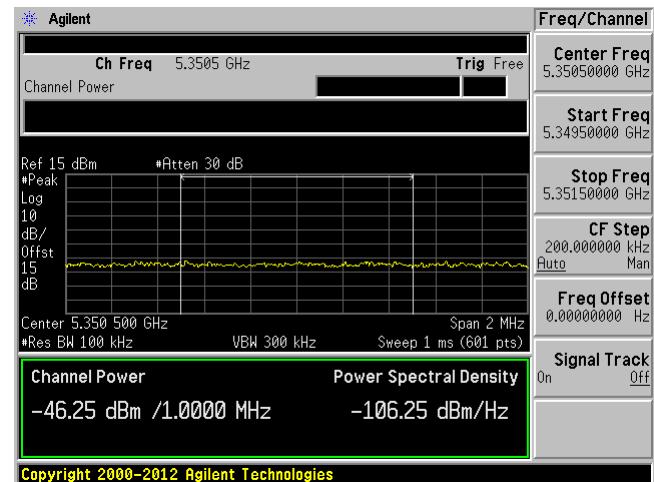
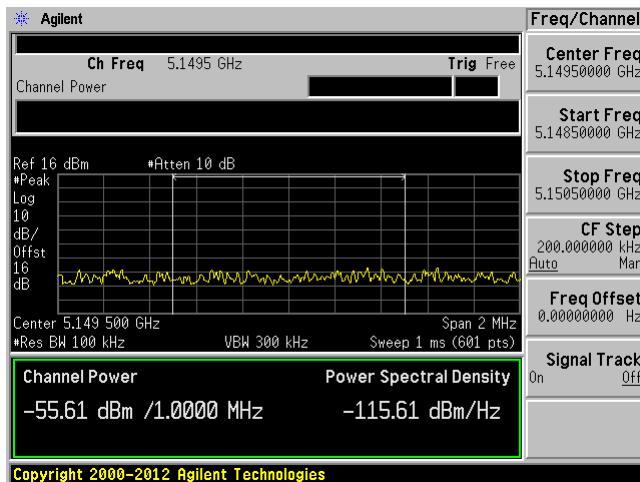
High channel: 5240 MHz



802.11n20 mode chain 1

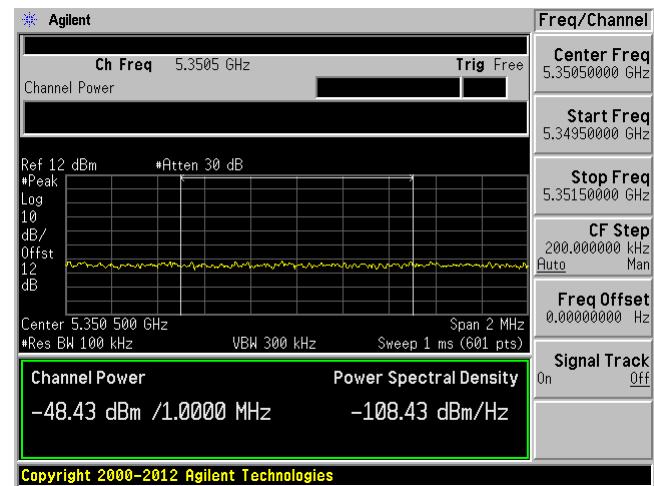
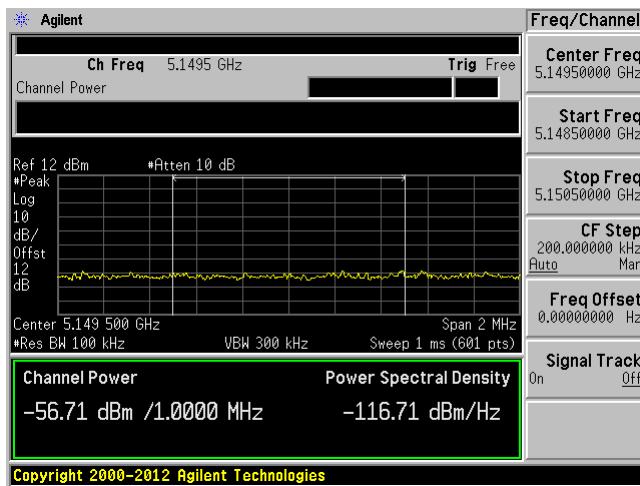
Low Channel: 5180 MHz

High channel: 5240 MHz

**802.11n20 mode chain 2**

Low Channel: 5180 MHz

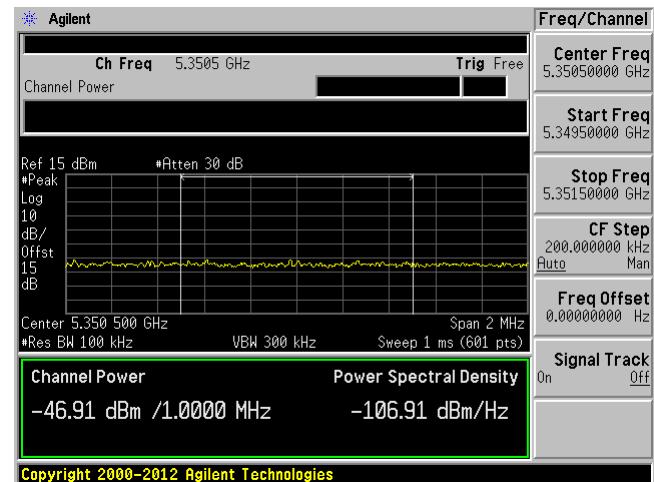
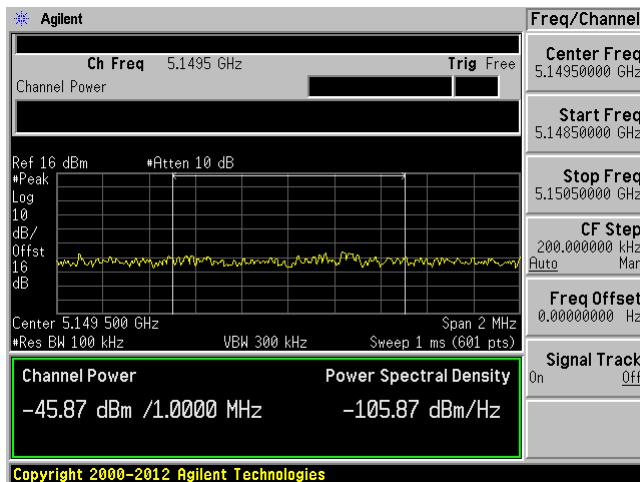
High channel: 5240 MHz



802.11n40 mode chain 1

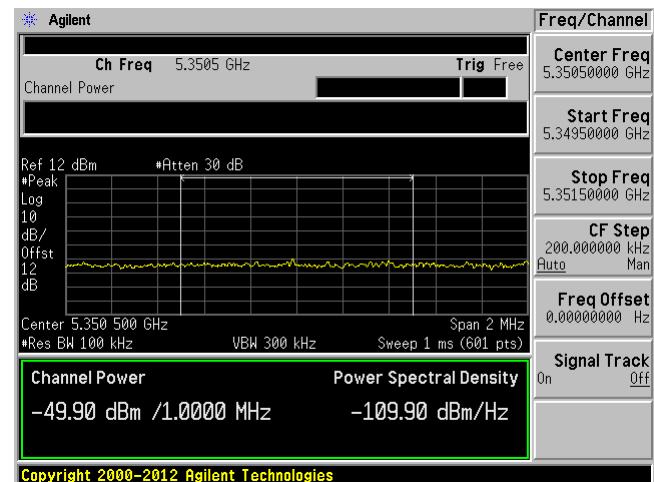
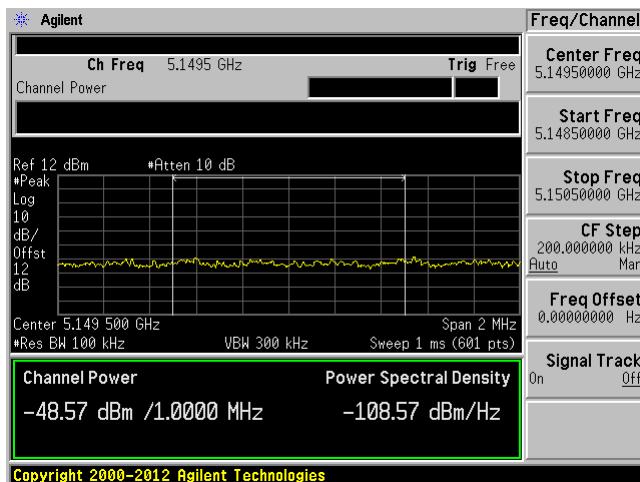
Low Channel: 5190 MHz

High channel: 5230 MHz

**802.11n40 mode chain 2**

Low Channel: 5190 MHz

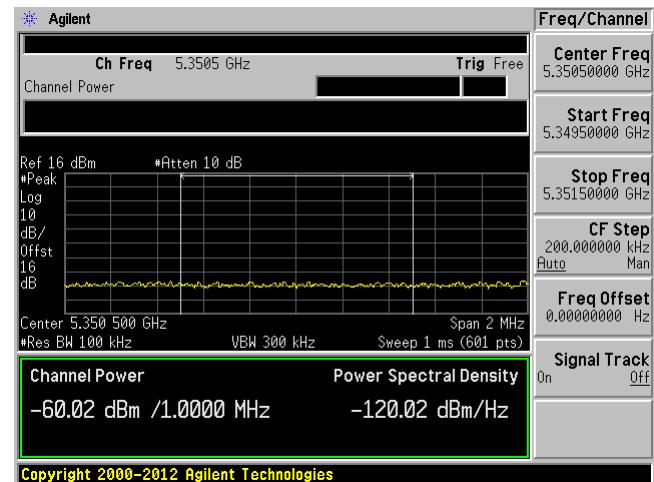
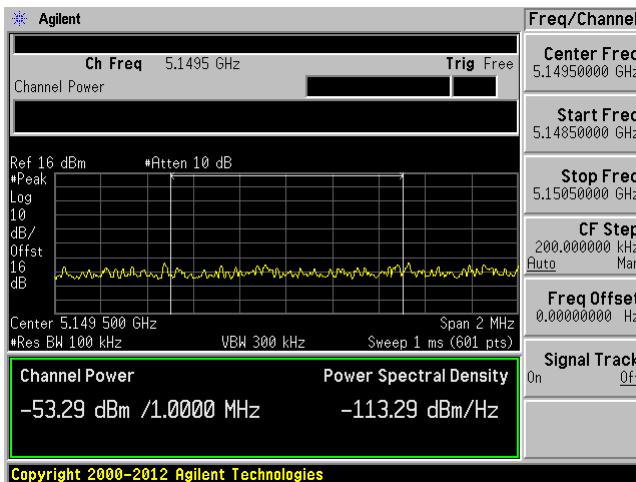
High channel: 5230 MHz



802.11ac20 mode chain 1

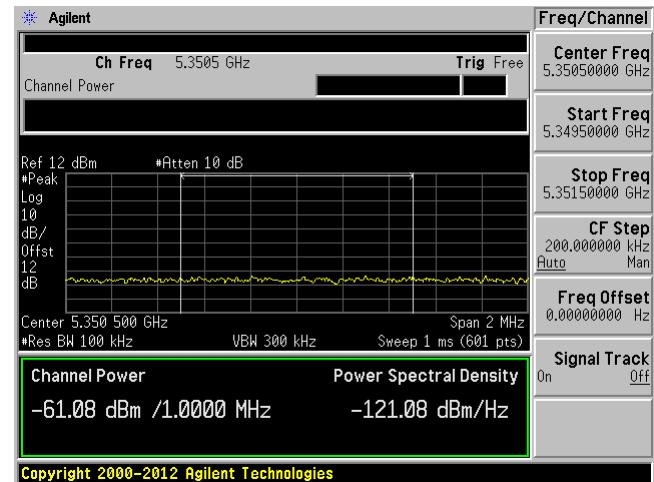
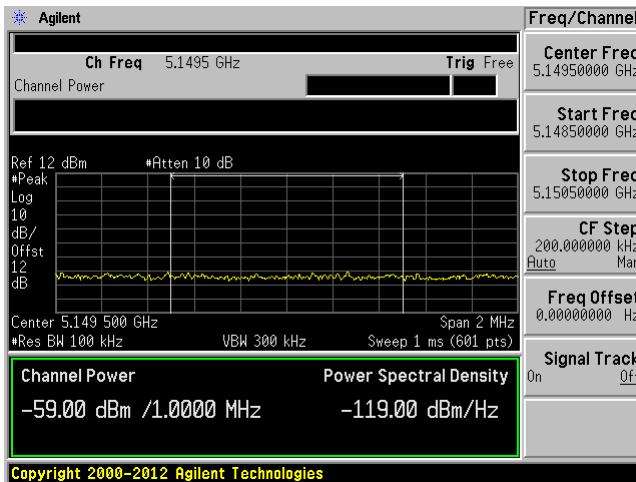
Low Channel: 5180 MHz

High channel: 5240 MHz

**802.11ac20 mode chain 2**

Low Channel: 5180 MHz

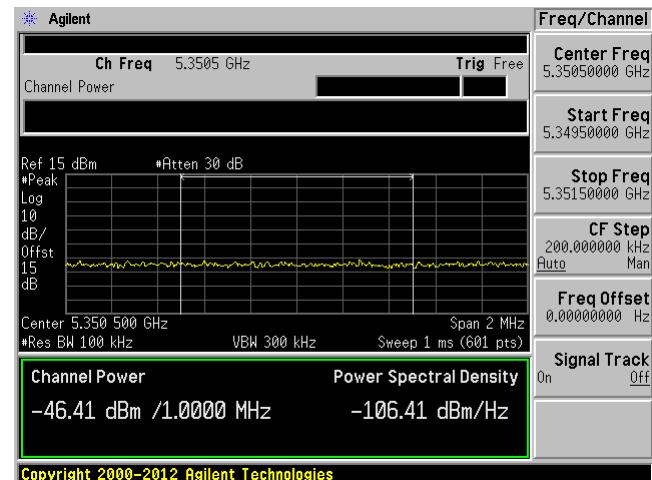
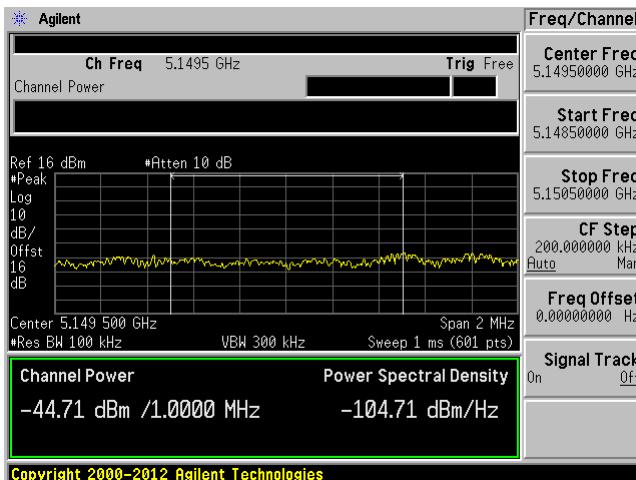
High channel: 5240 MHz



802.11ac40 mode chain 1

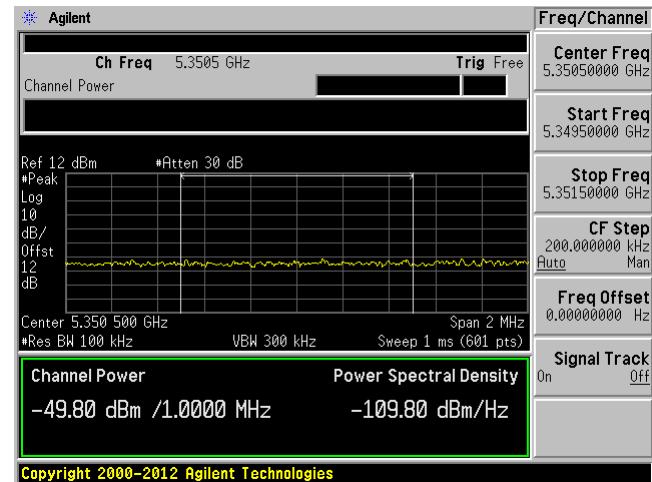
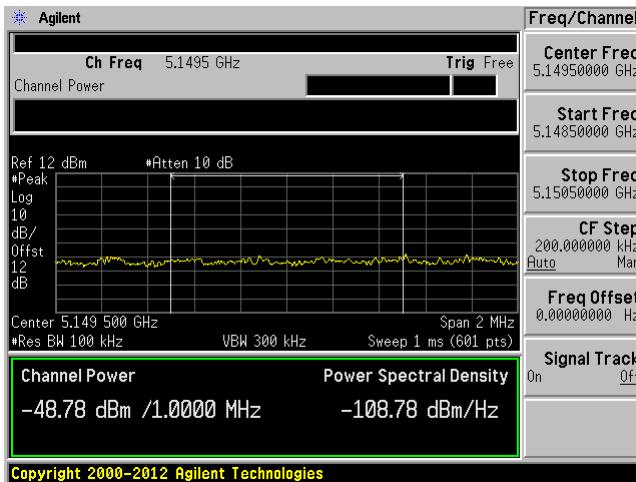
Low Channel: 5190 MHz

High channel: 5230 MHz

**802.11ac40 mode chain 2**

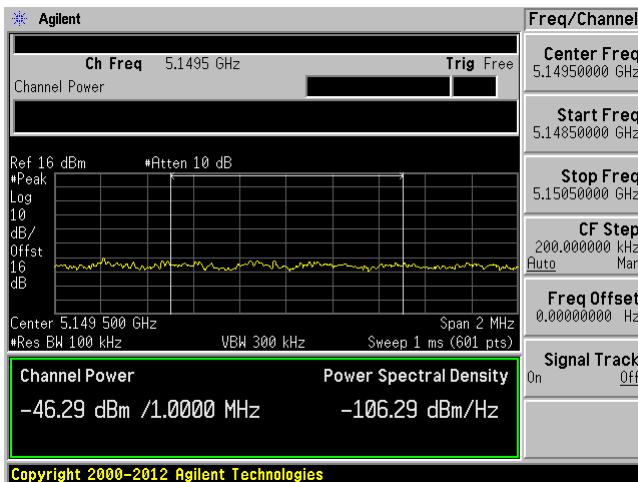
Low Channel: 5190 MHz

High channel: 5230 MHz

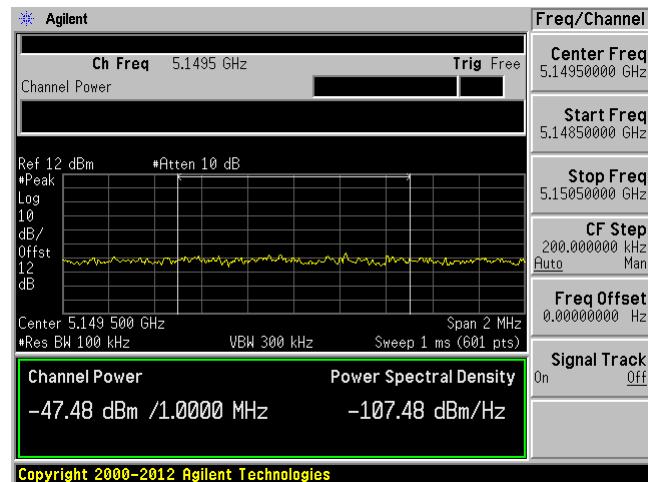


802.11ac80 mode

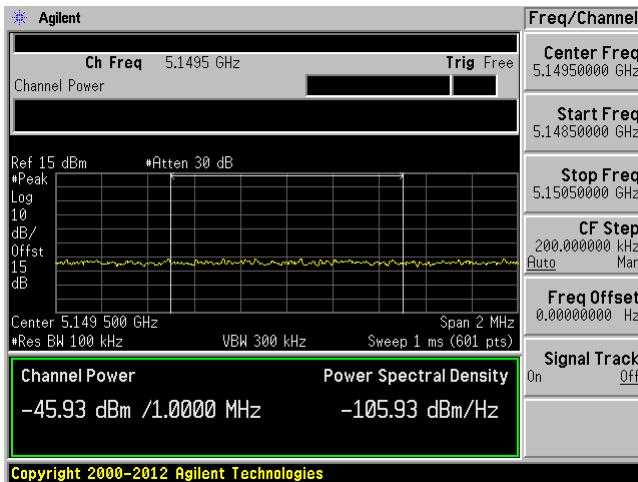
5210 MHz chain 1



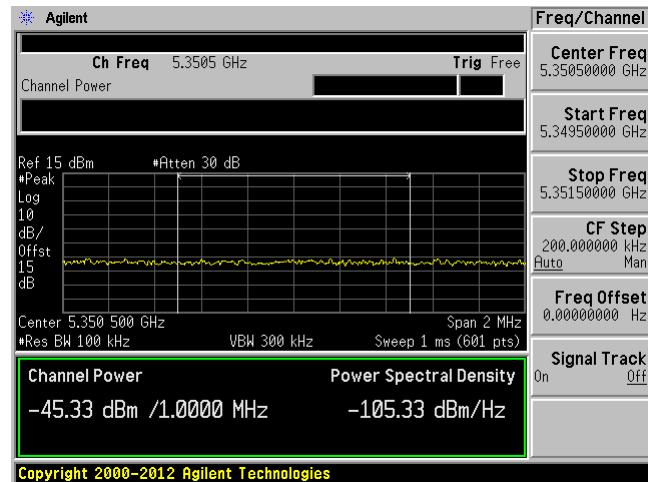
5210 MHz chain 2

**5250 – 5350 MHz****802.11a mode chain 1**

Low Channel: 5260 MHz



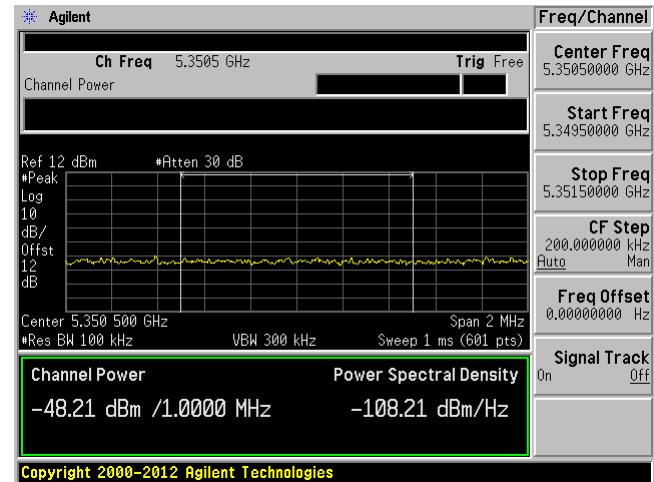
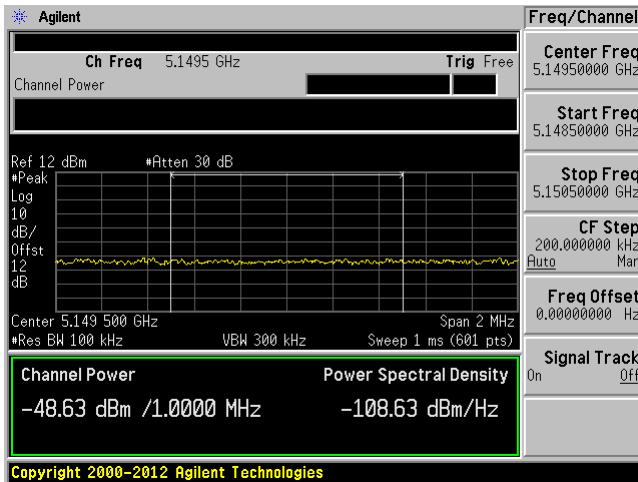
High channel: 5320 MHz



802.11a mode chain 2

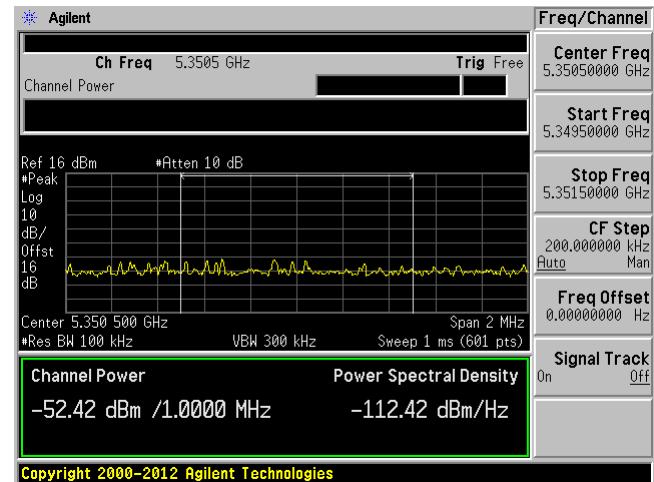
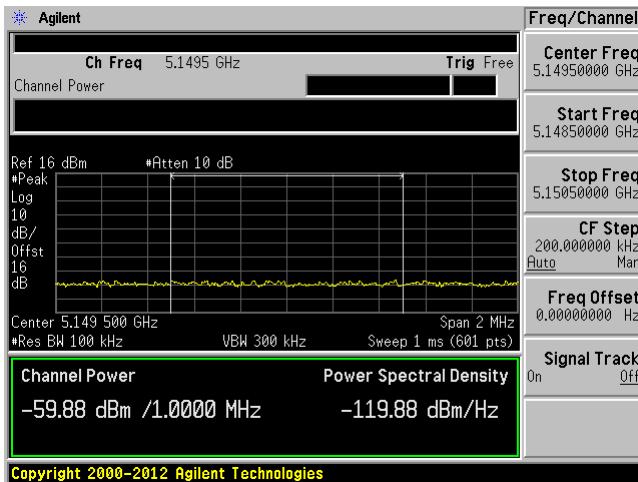
Low Channel: 5260 MHz

High channel: 5320 MHz

**802.11n20 mode chain 1**

Low Channel: 5260 MHz

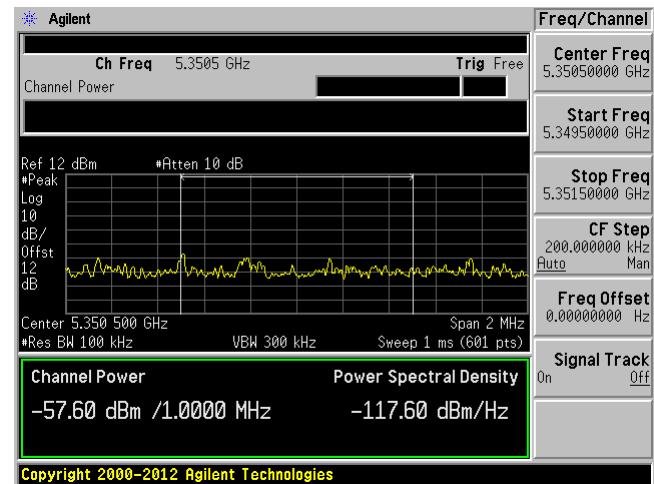
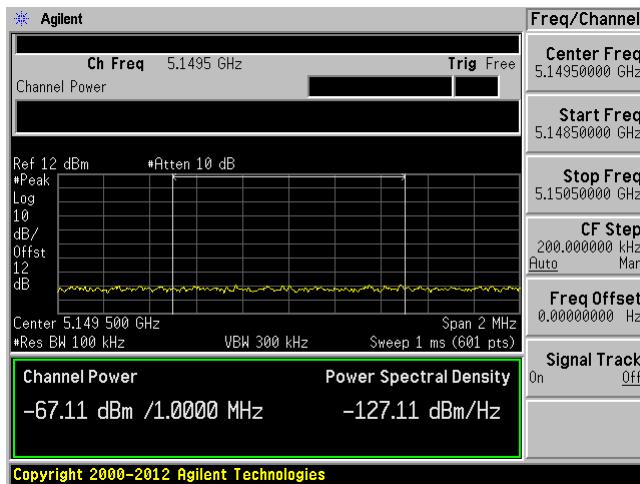
High channel: 5320 MHz



802.11n20 mode chain 2

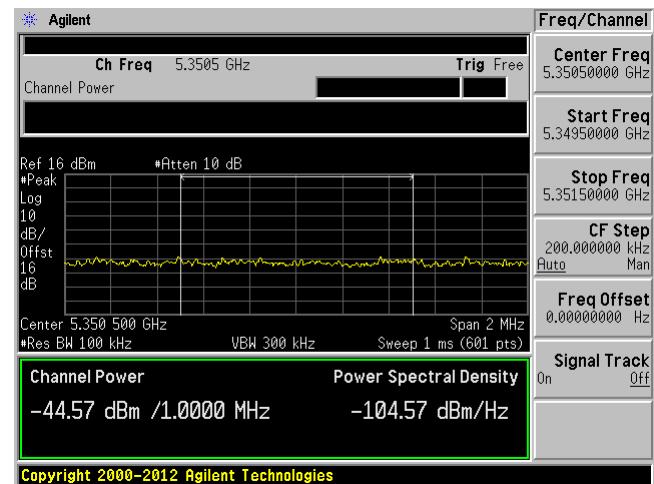
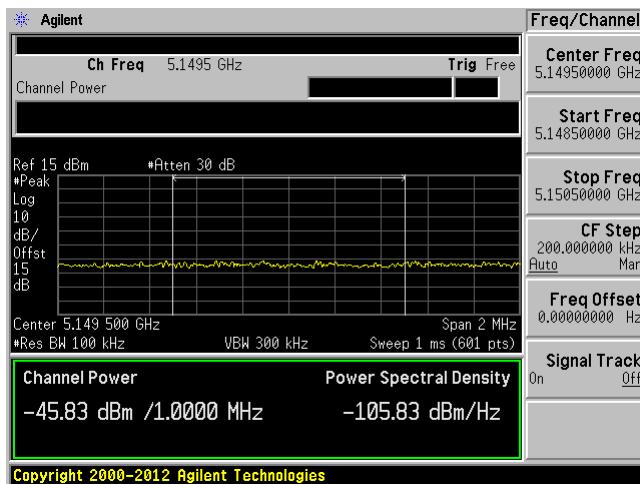
Low Channel: 5260 MHz

High channel: 5320 MHz

**802.11n40 mode chain 1**

Low Channel: 5270 MHz

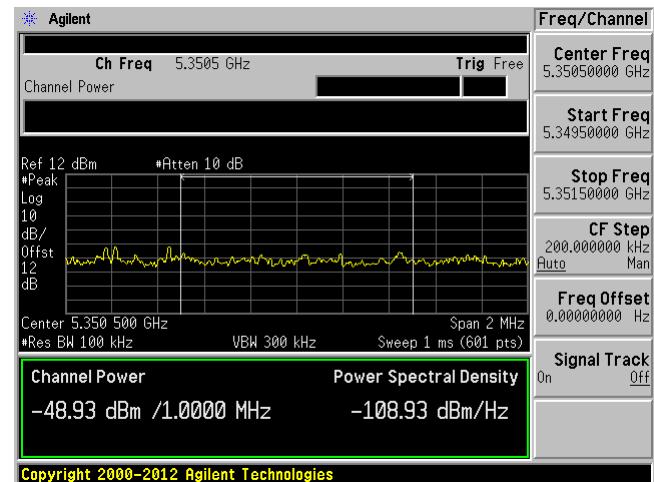
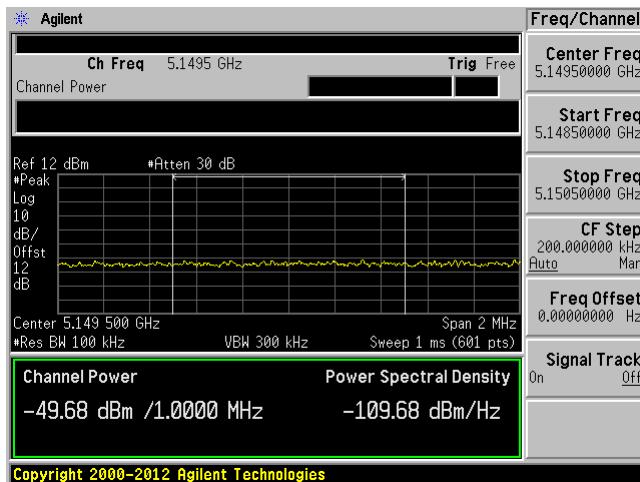
High channel: 5310 MHz



802.11n40 mode chain 2

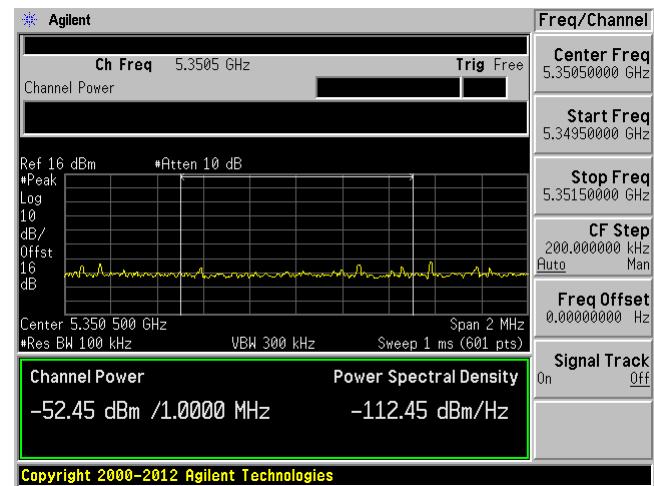
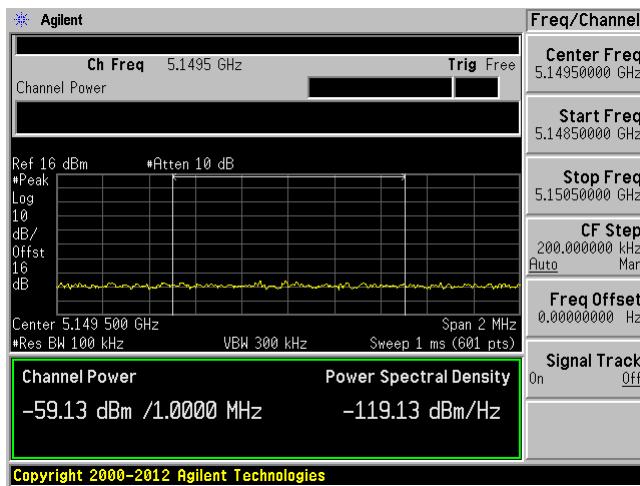
Low Channel: 5270 MHz

High channel: 5310 MHz

**802.11ac20 mode chain 1**

Low Channel: 5260 MHz

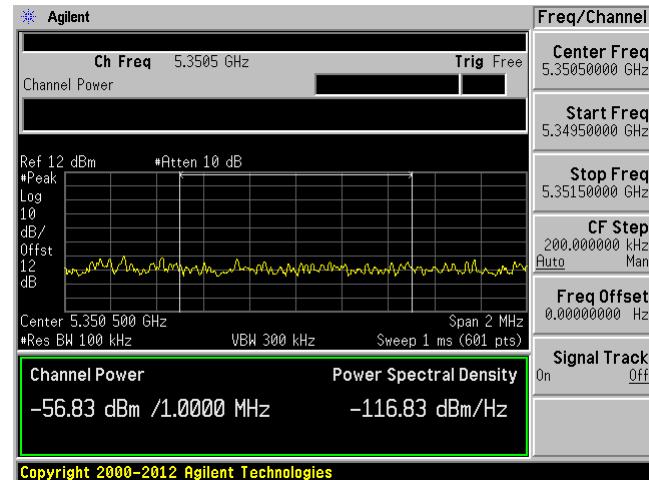
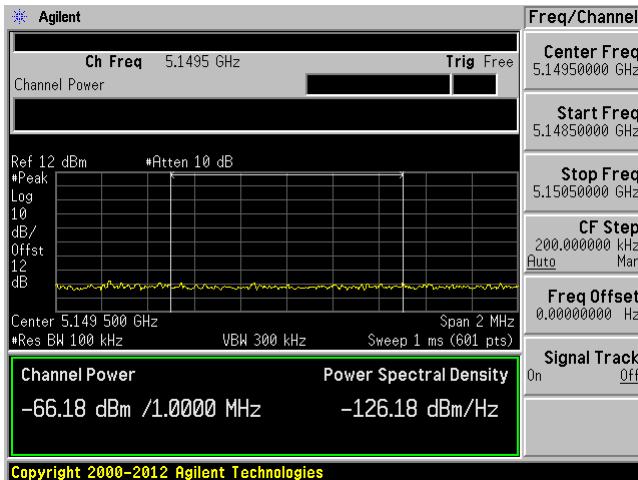
High channel: 5320 MHz



802.11ac20 mode chain 2

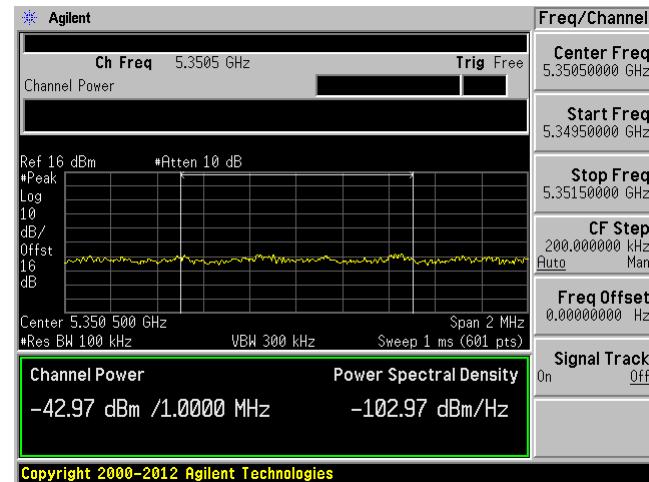
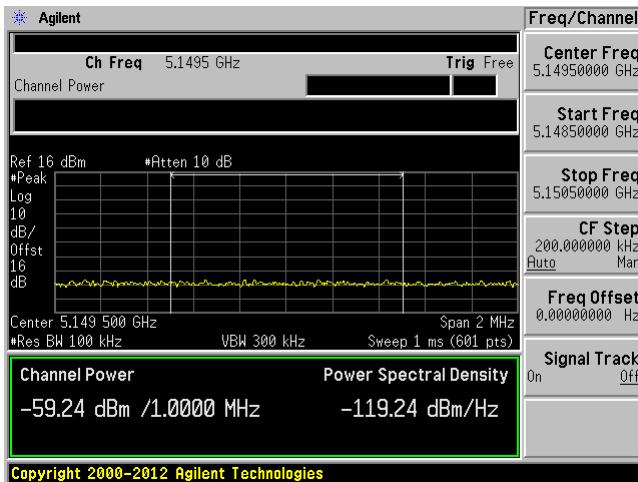
Low Channel: 5260 MHz

High channel: 5320 MHz

**802.11ac40 mode chain 1**

Low Channel: 5270 MHz

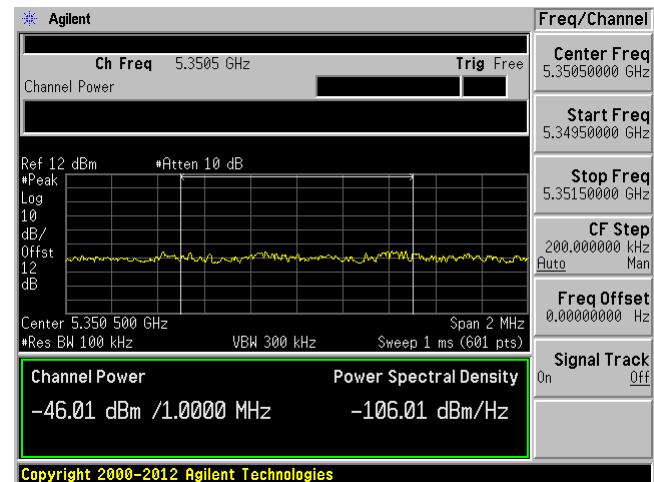
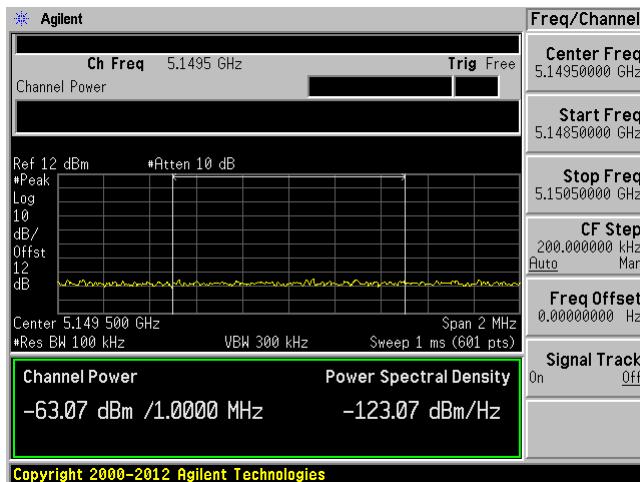
High channel: 5310 MHz



802.11ac40 mode chain 2

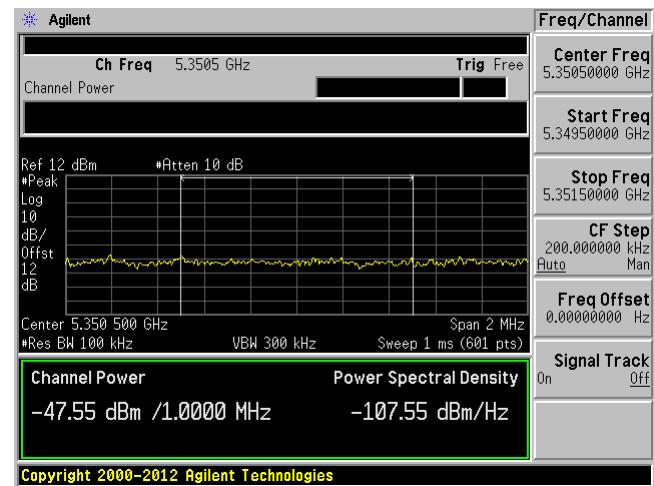
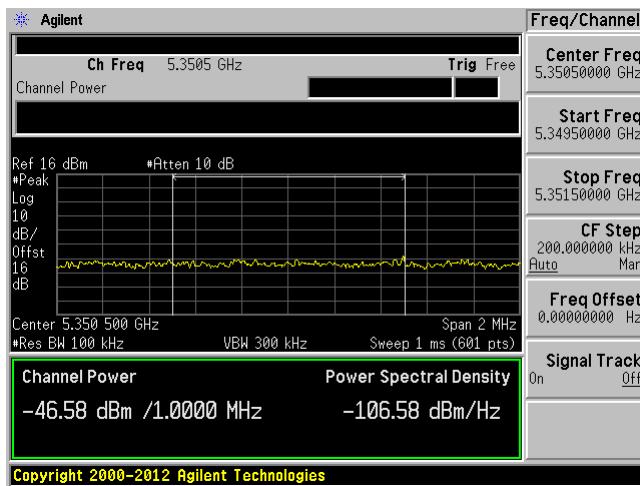
Low Channel: 5270 MHz

High channel: 5310 MHz

**802.11ac80 mode**

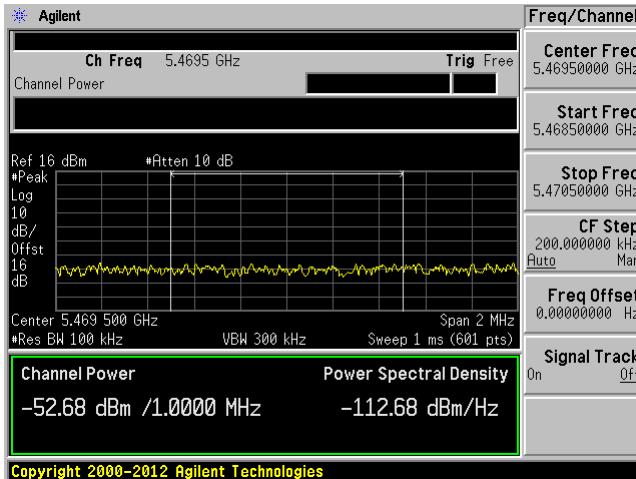
5290 MHz chain 1

5290 MHz chain 2

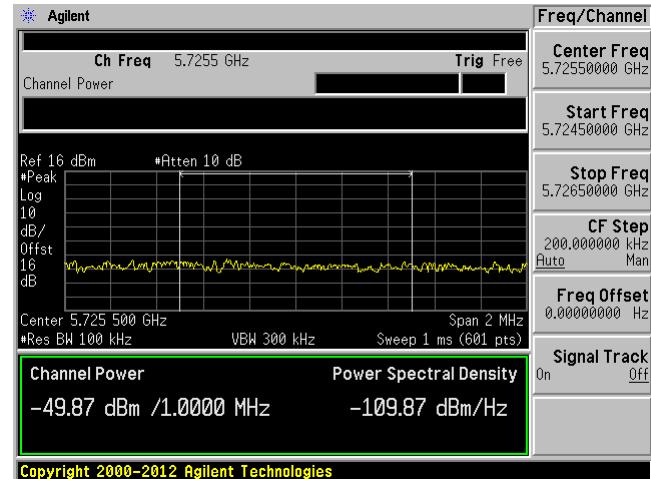


5470 - 5725 MHz**802.11a mode chain 1**

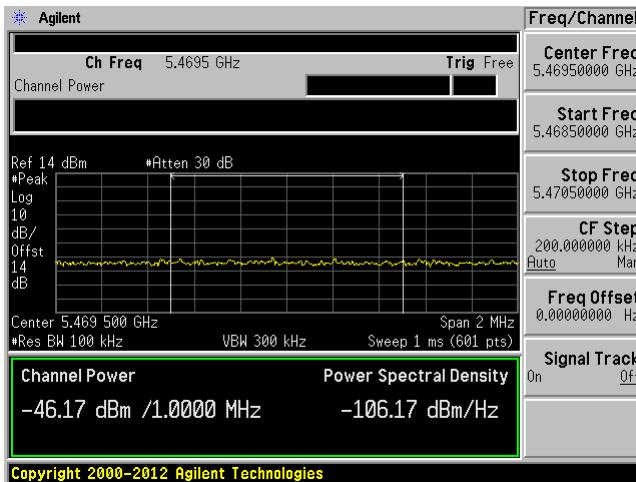
Low Channel: 5500 MHz



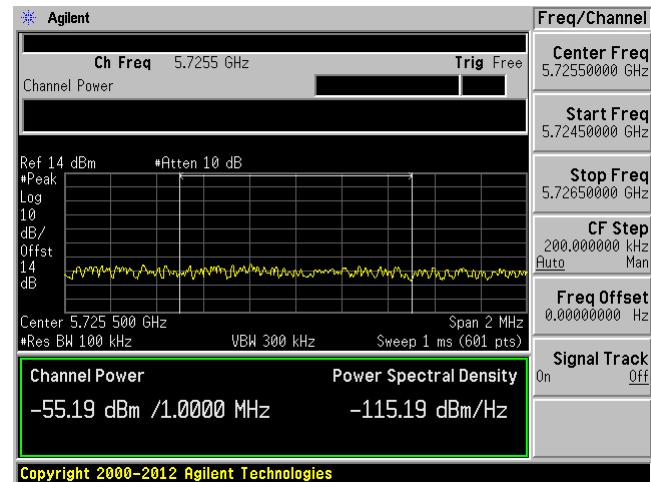
High channel: 5700 MHz

**802.11a mode chain 2**

Low Channel: 5500 MHz



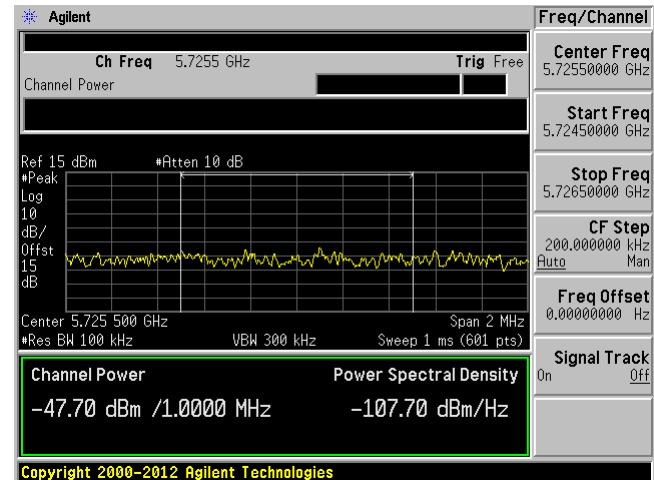
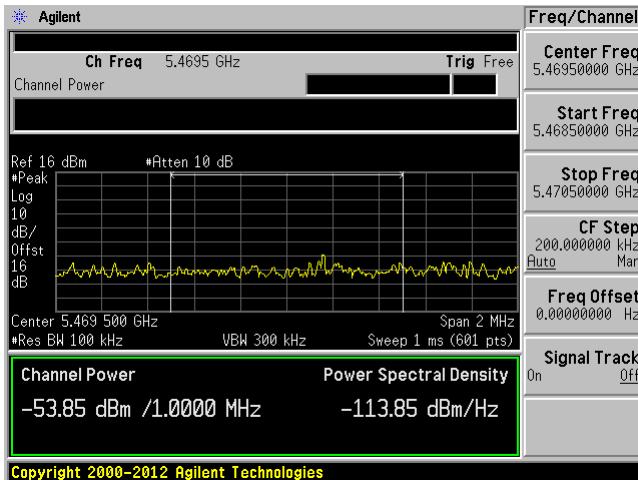
High channel: 5700 MHz



802.11n20 mode chain 1

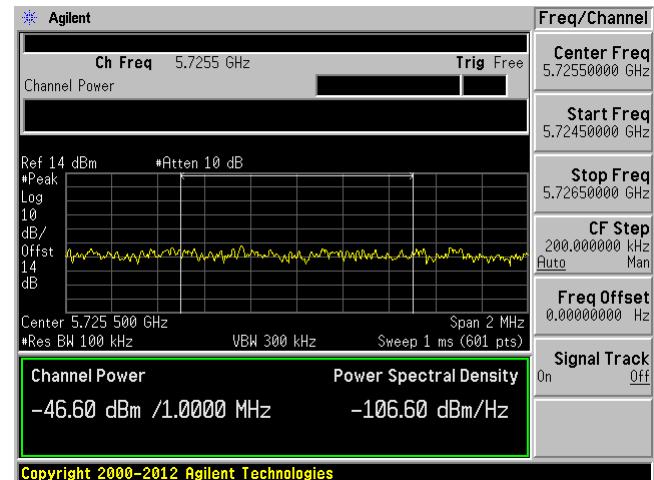
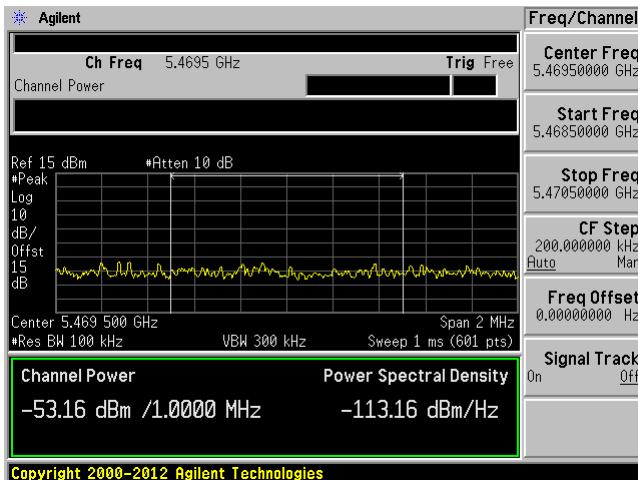
Low Channel: 5500 MHz

High channel: 5700 MHz

**802.11n20 mode chain 2**

Low Channel: 5500 MHz

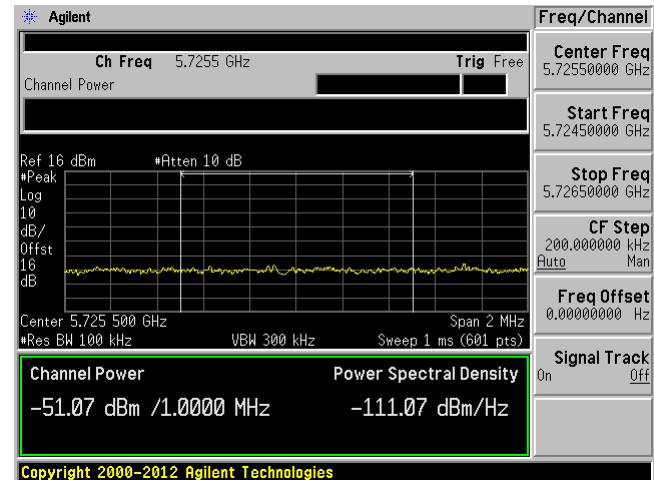
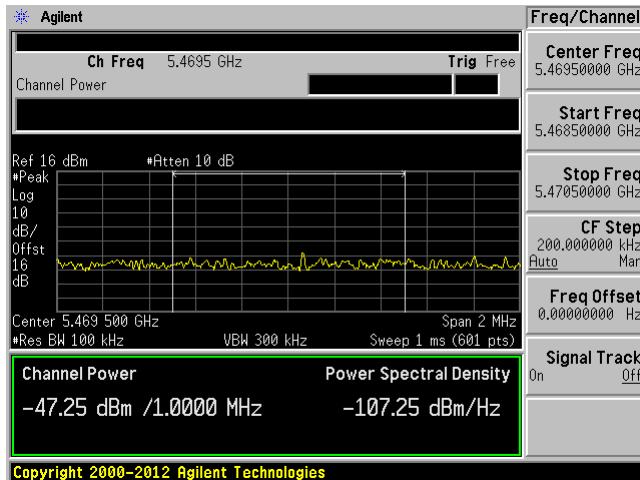
High channel: 5700 MHz



802.11n40 mode chain 1

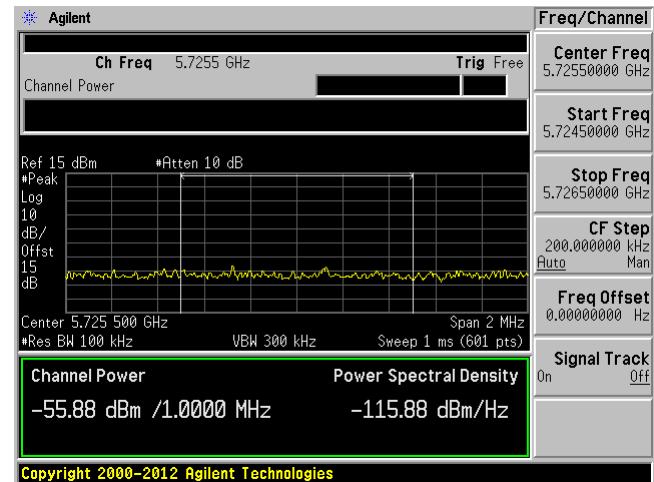
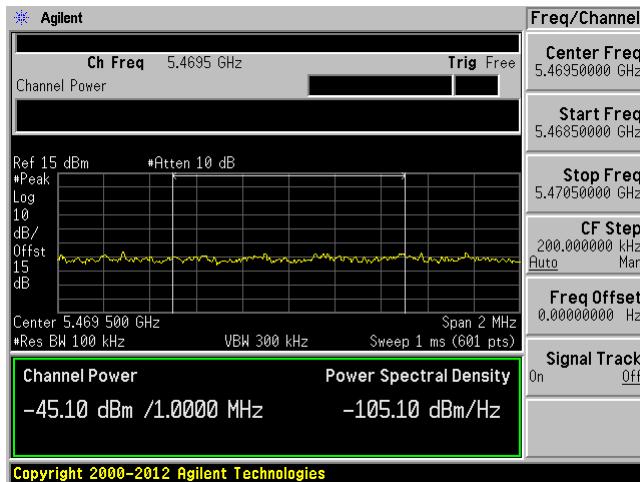
Low Channel: 5510 MHz

High channel: 5670 MHz

**802.11n40 mode chain 2**

Low Channel: 5510 MHz

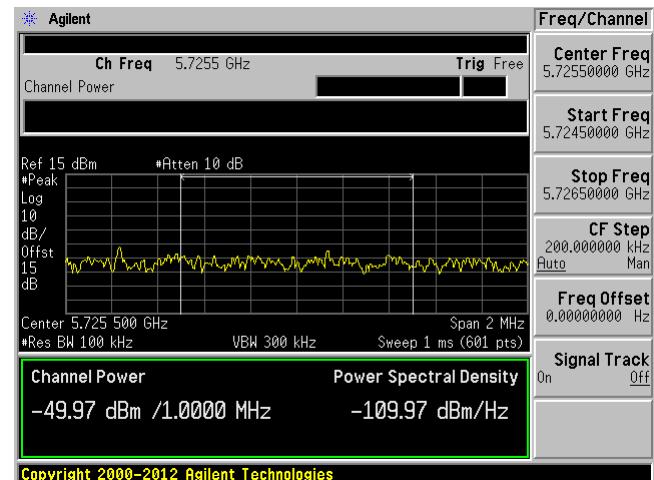
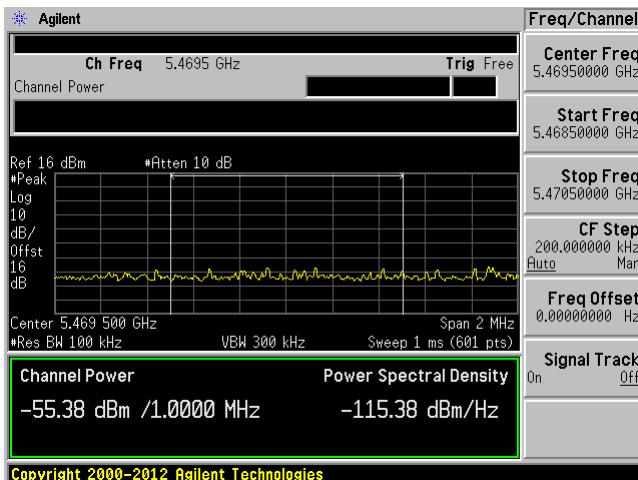
High channel: 5670 MHz



802.11ac20 mode chain 1

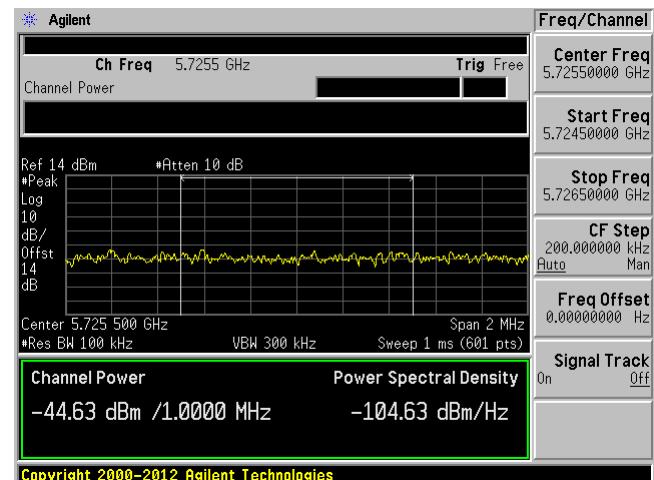
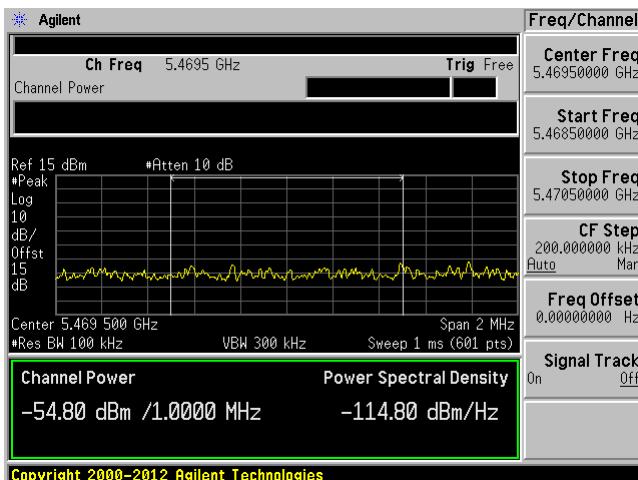
Low Channel: 5500 MHz

High channel: 5700 MHz

**802.11ac20 mode chain 2**

Low Channel: 5500 MHz

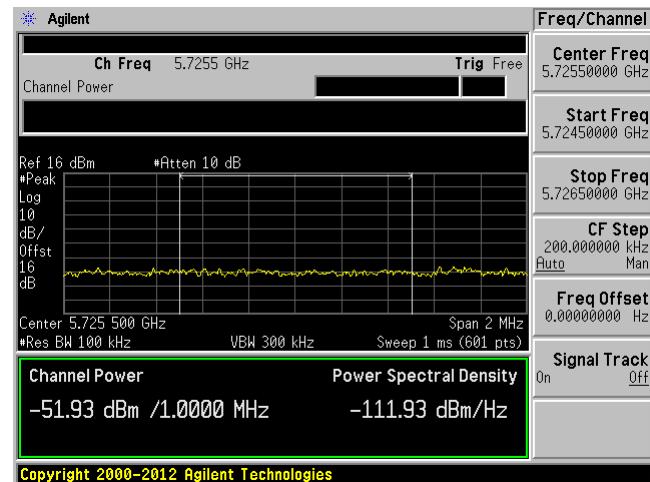
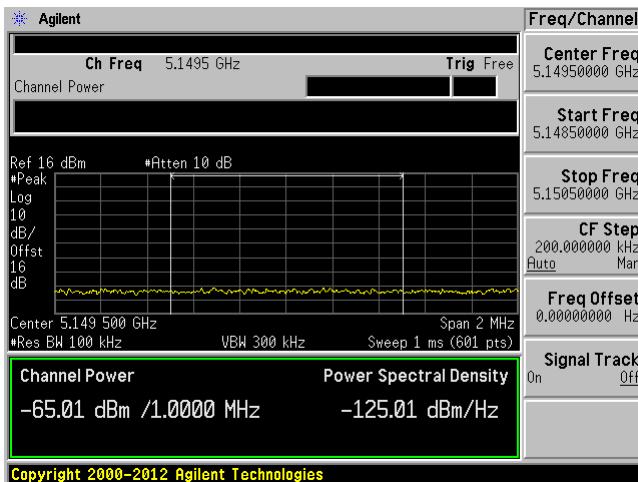
High channel: 5700 MHz



802.11ac40 mode chain 1

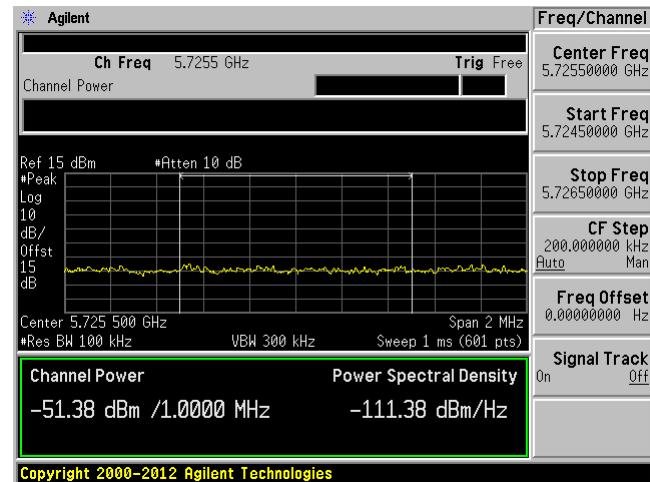
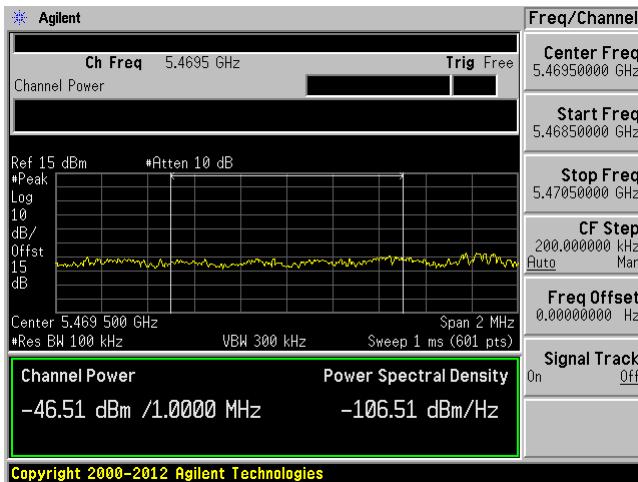
Low Channel: 5510 MHz

High channel: 5670 MHz

**802.11ac40 mode chain 2**

Low Channel: 5510 MHz

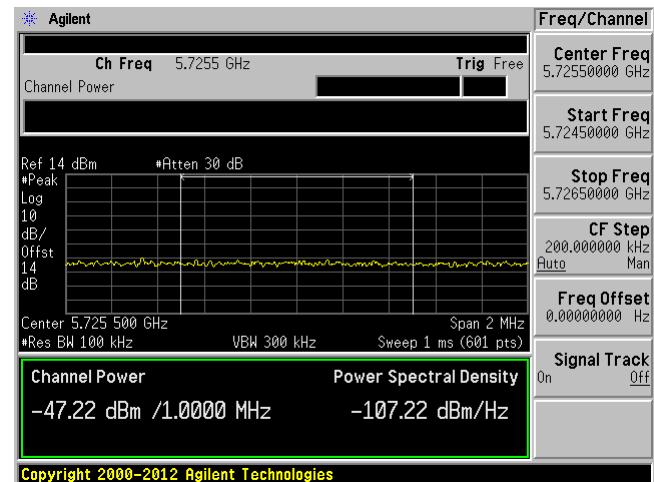
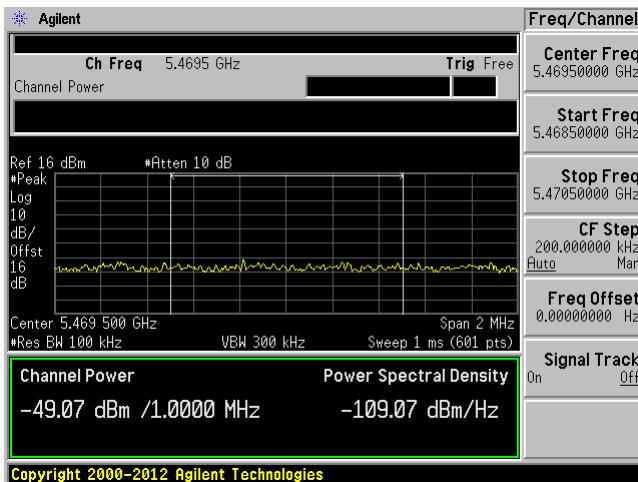
High channel: 5670 MHz



802.11ac80 mode chain 1

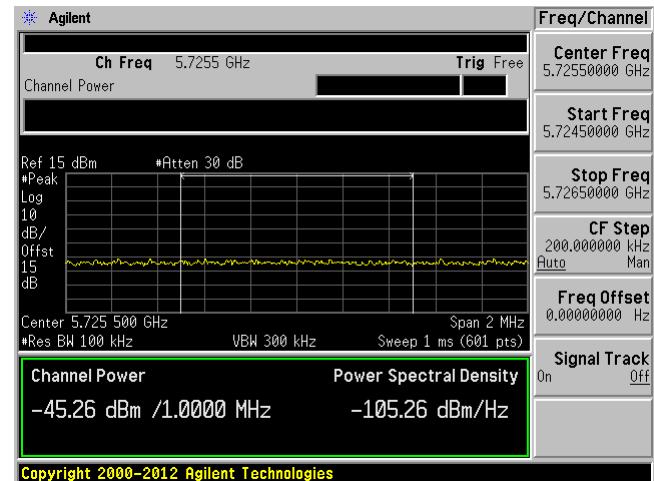
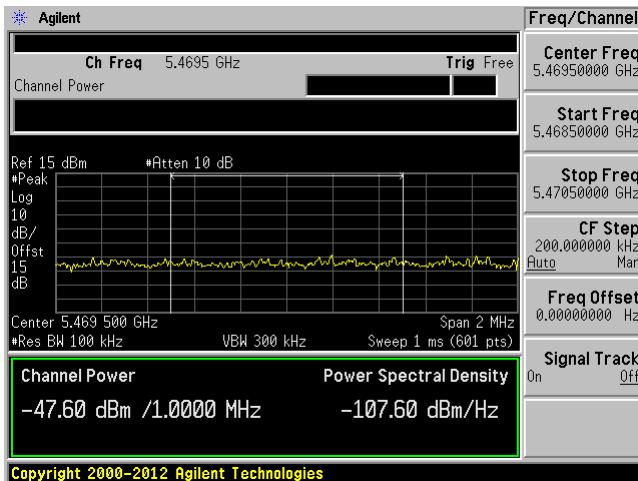
Low Channel: 5530 MHz

High Channel: 5610 MHz

**802.11ac80 mode chain 2**

Low Channel: 5530 MHz

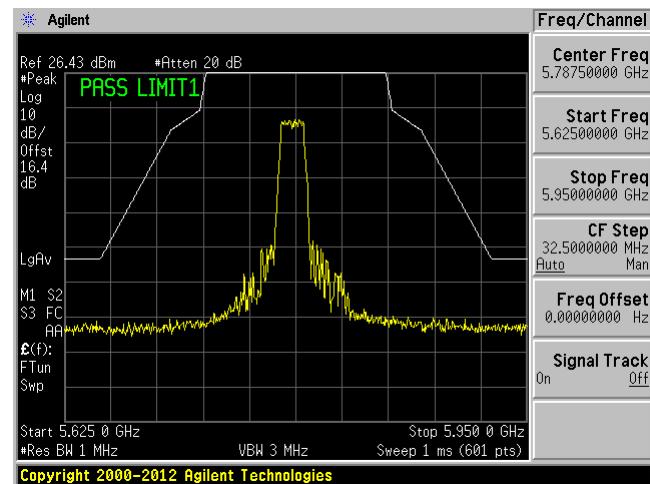
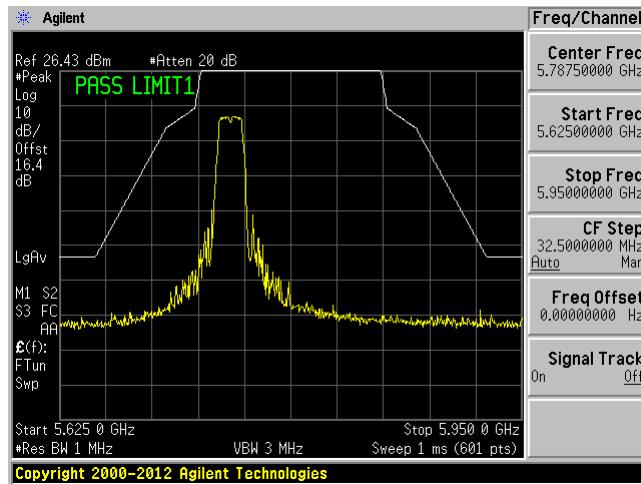
High Channel: 5610 MHz



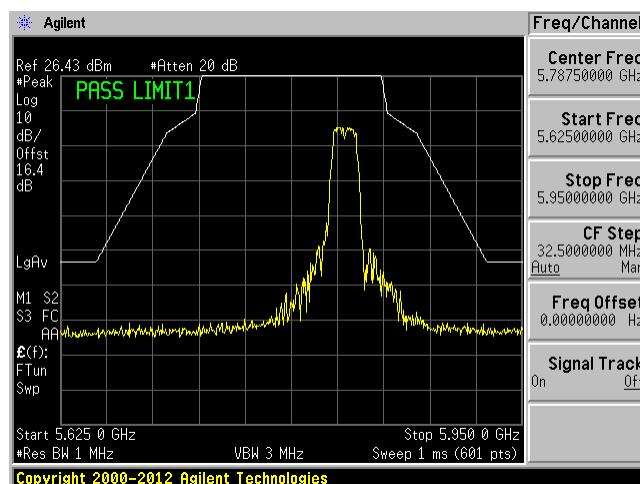
5725 - 5850 MHz**FCC Band-Edge (Mask)****802.11a mode chain 1**

Low Channel: 5745 MHz

Middle Channel: 5785 MHz



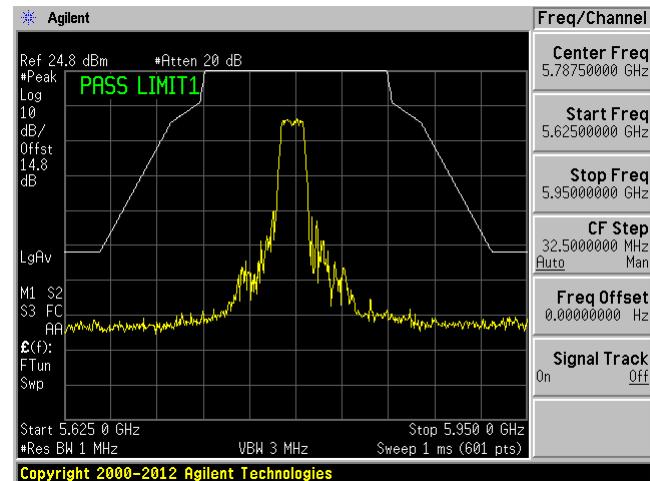
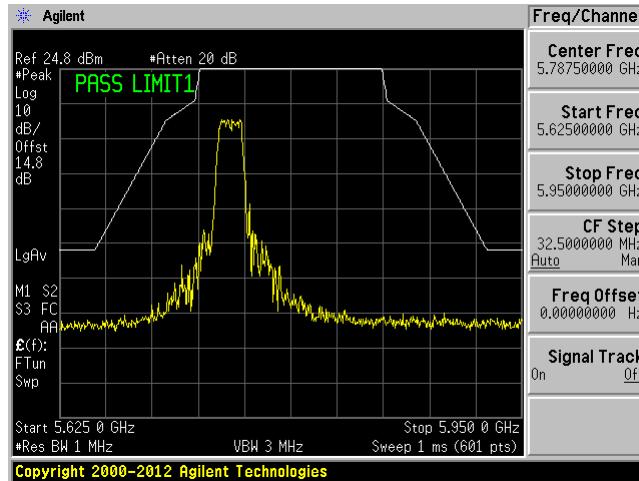
High Channel: 5825 MHz



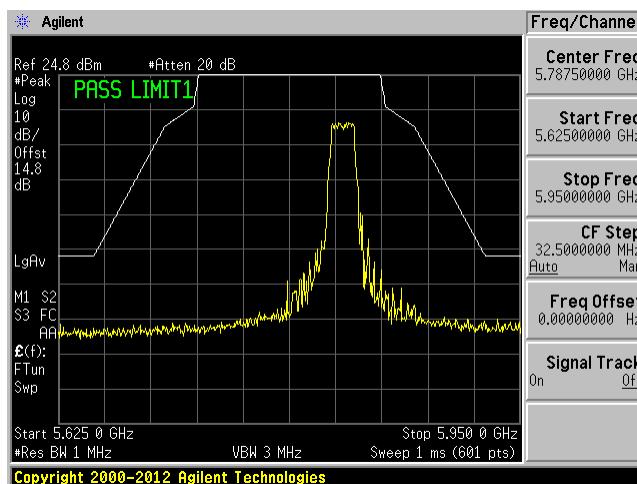
802.11a mode chain 2

Low Channel: 5745 MHz

Middle Channel: 5785 MHz



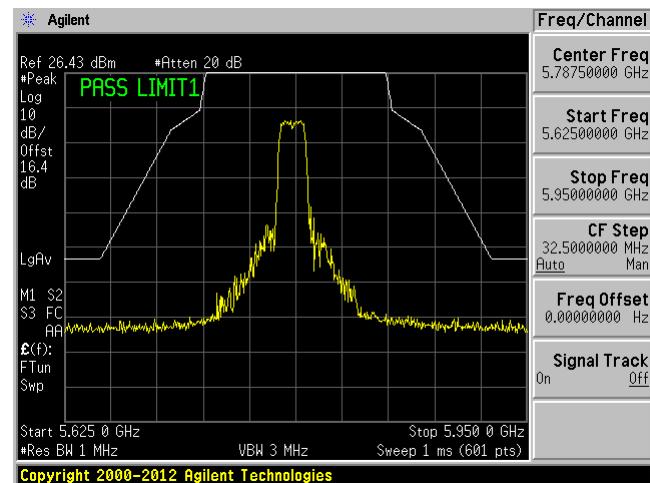
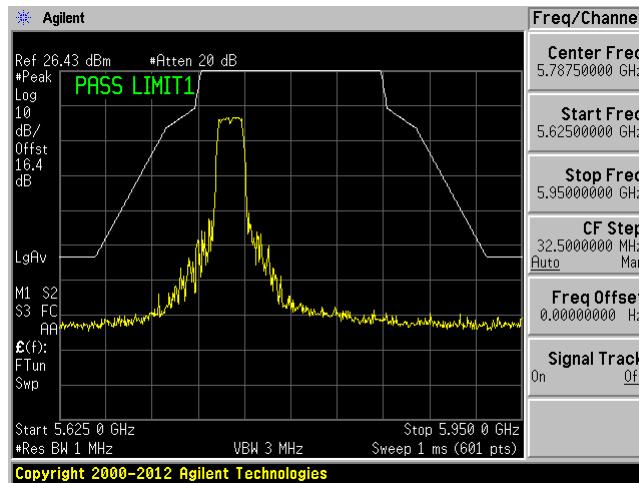
High Channel: 5825 MHz



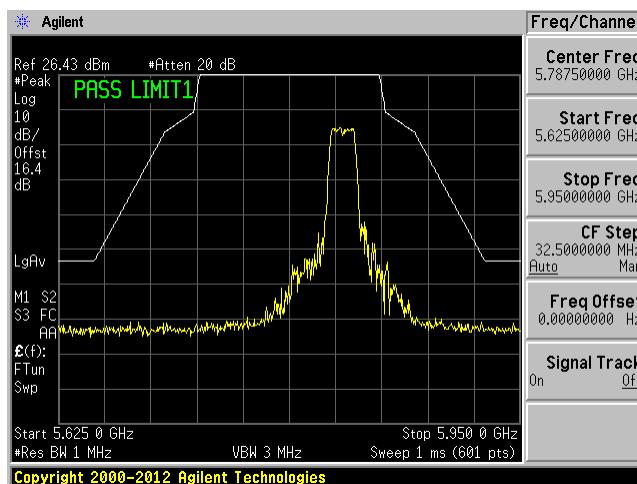
802.11n20 mode chain 1

Low Channel: 5745 MHz

Middle Channel: 5785 MHz



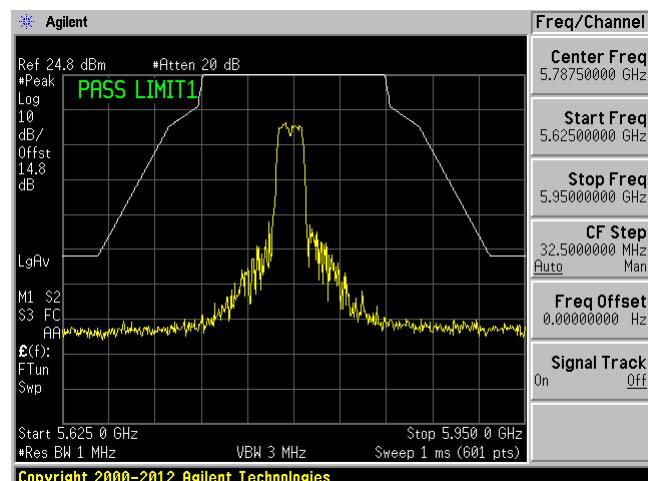
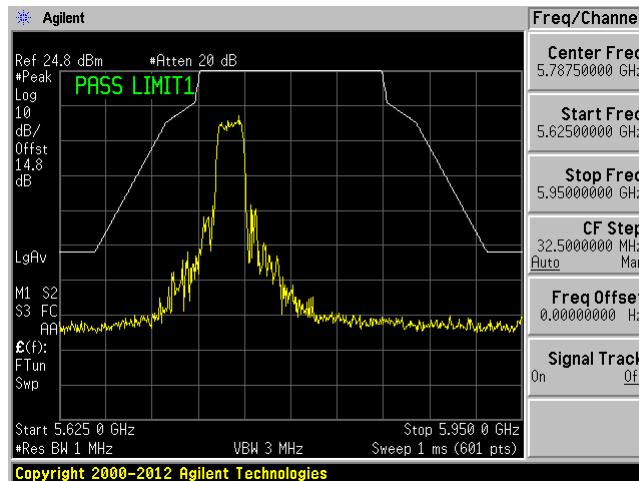
High Channel: 5825 MHz



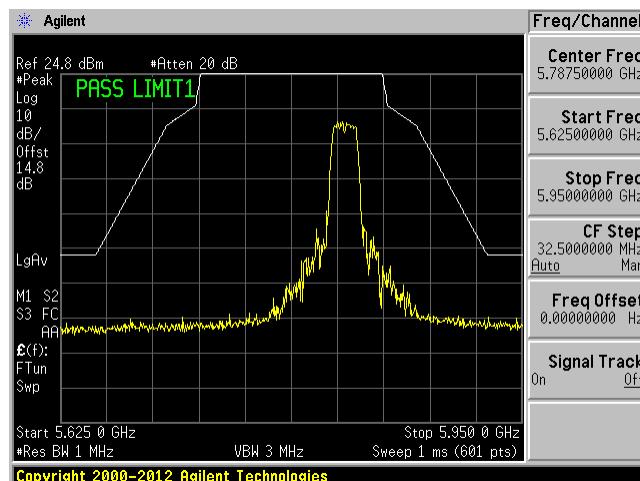
802.11n20 mode chain 2

Low Channel: 5745 MHz

Middle Channel: 5785 MHz



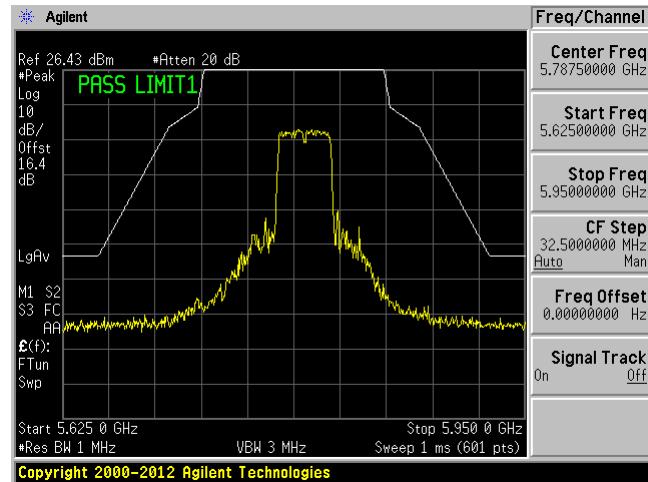
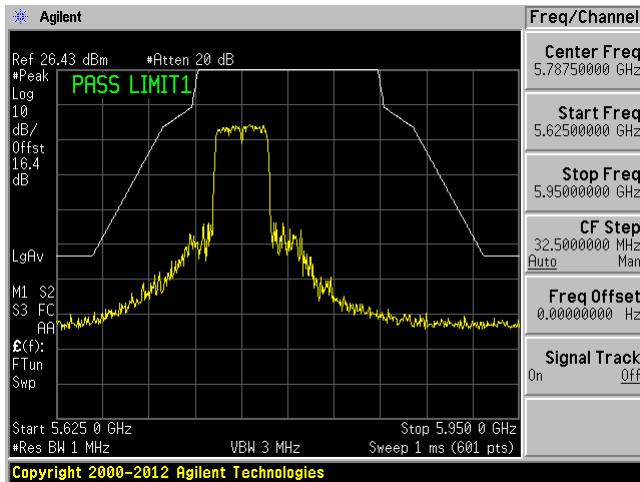
High Channel: 5825 MHz



802.11n40 mode chain 1

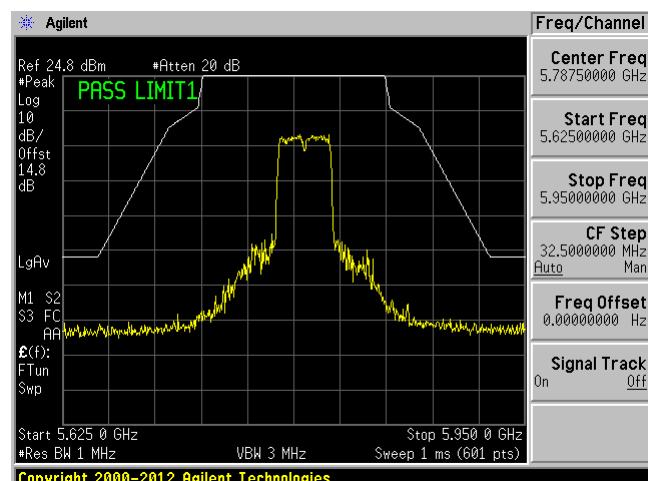
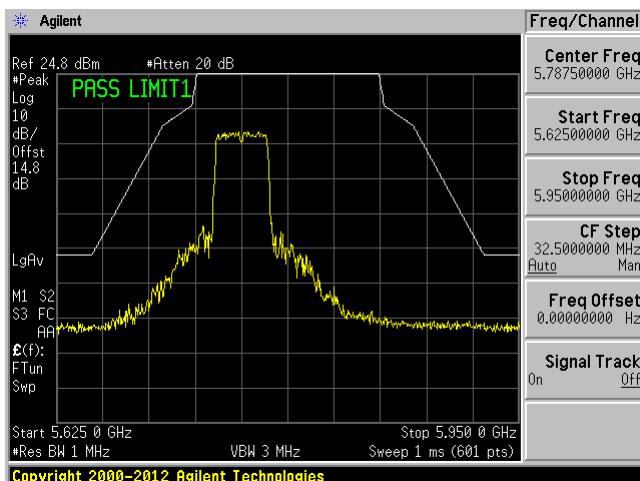
Low Channel: 5755 MHz

High Channel: 5855 MHz

**802.11n40 mode chain 2**

Low Channel: 5745 MHz

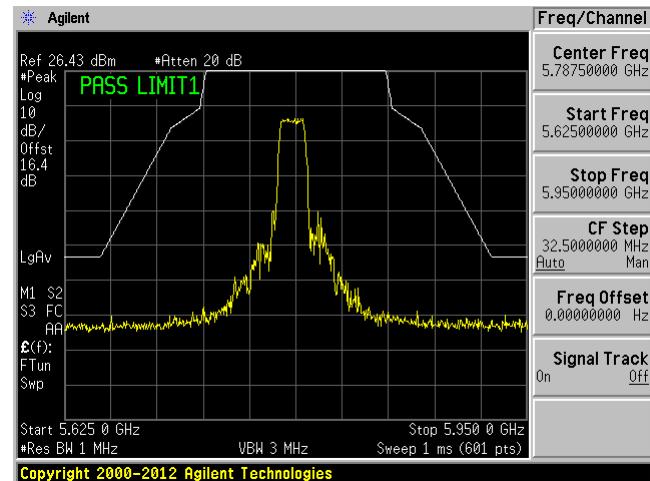
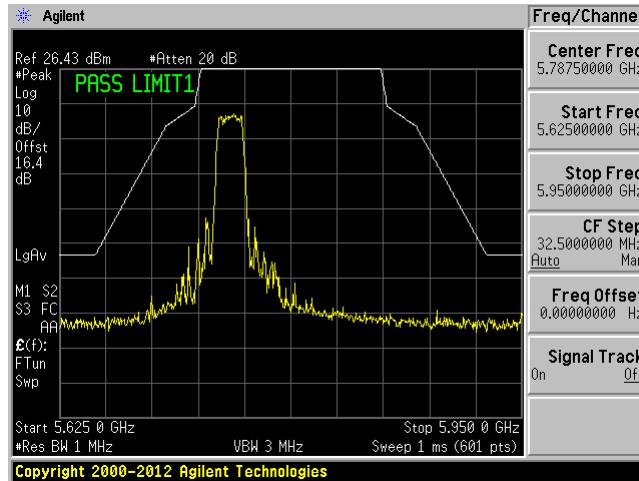
High Channel: 5825 MHz



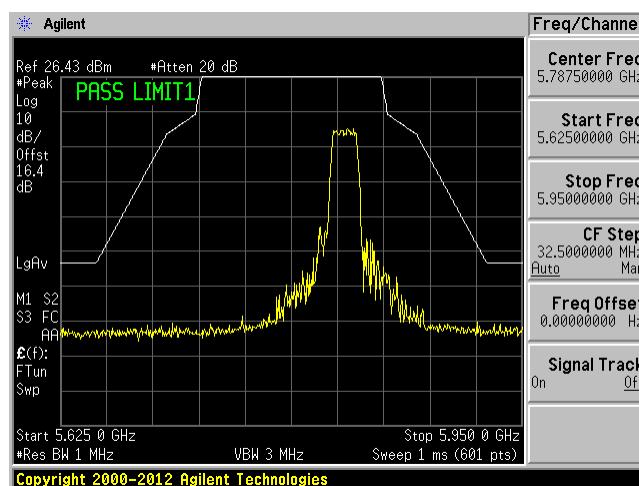
802.11ac20 mode chain 1

Low Channel: 5745 MHz

Middle Channel: 5785 MHz



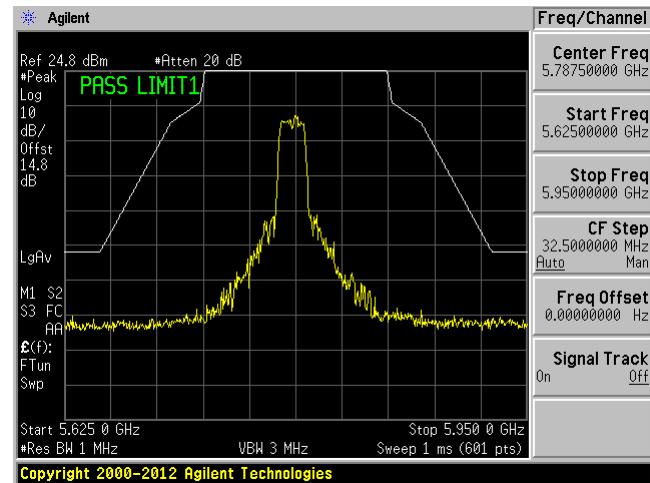
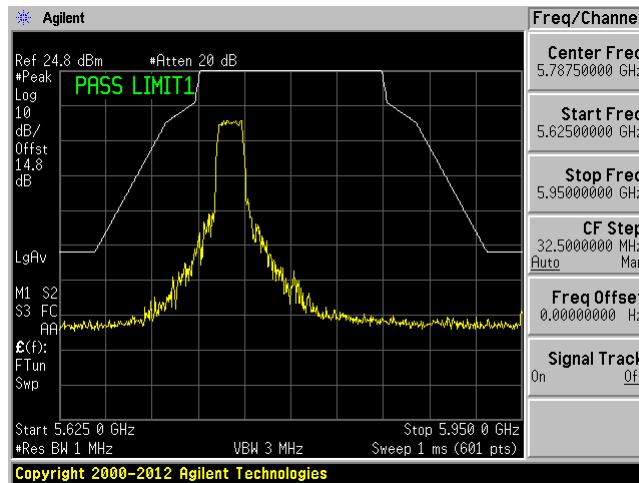
High Channel: 5825 MHz



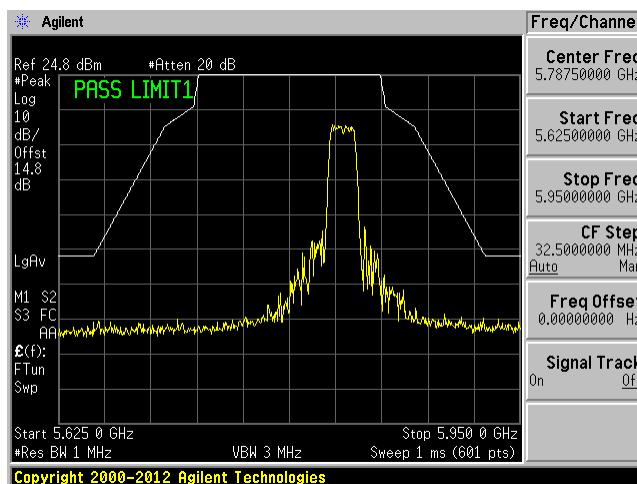
802.11ac20 mode chain 2

Low Channel: 5745 MHz

Middle Channel: 5785 MHz



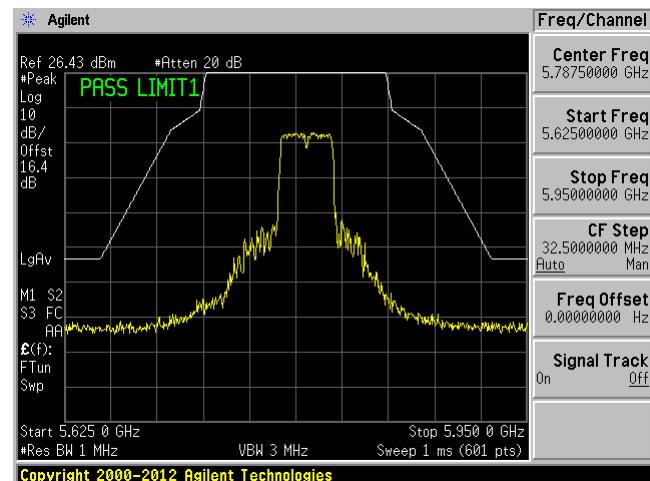
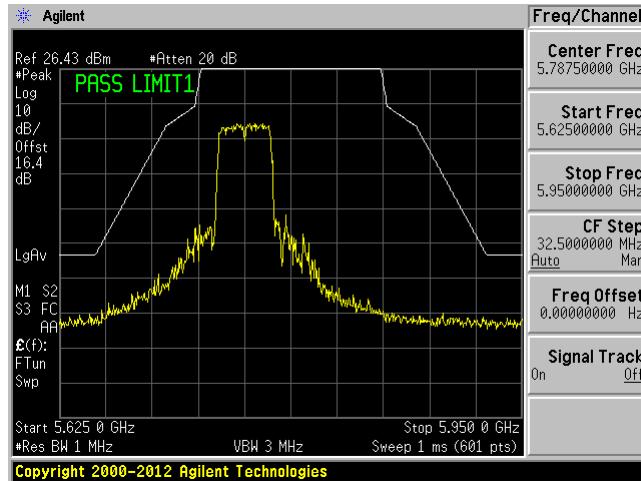
High Channel: 5825 MHz



802.11ac40 mode chain 1

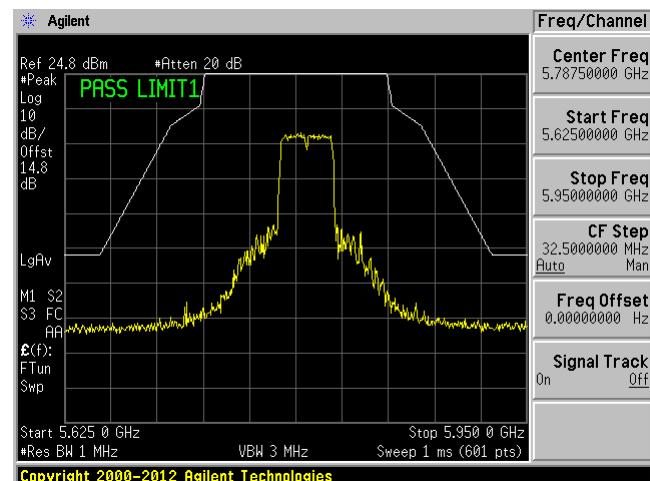
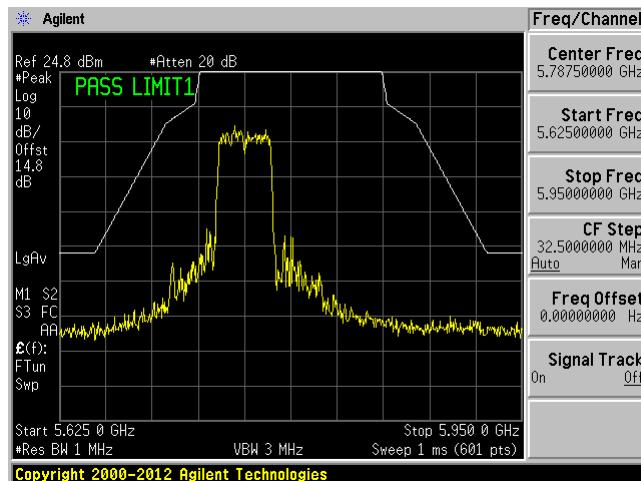
Low Channel: 5755 MHz

High Channel: 5855 MHz

**802.11ac40 mode chain 2**

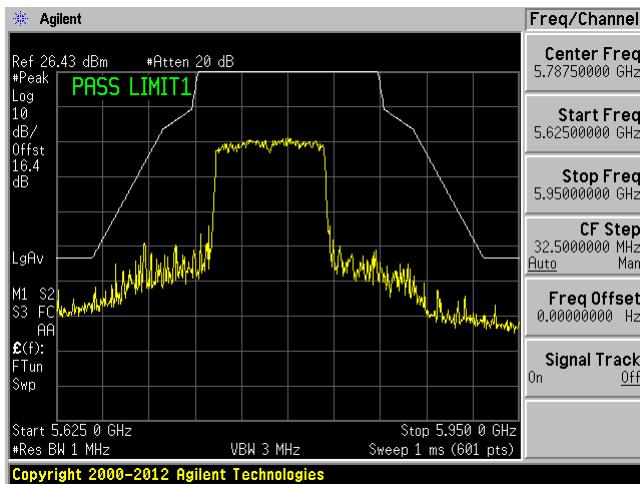
Low Channel: 5745 MHz

High Channel: 5825 MHz

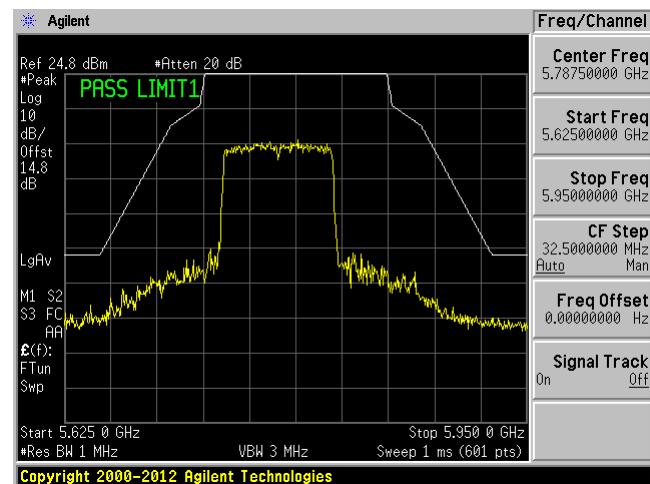


802.11ac80 mode, 5775 MHz

Chain 1

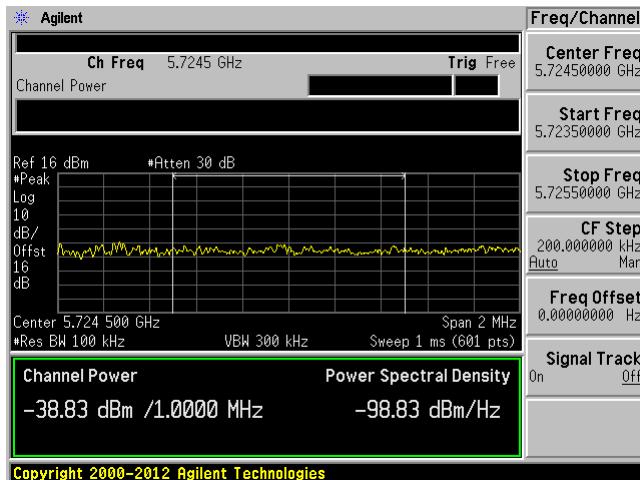


Chain 2

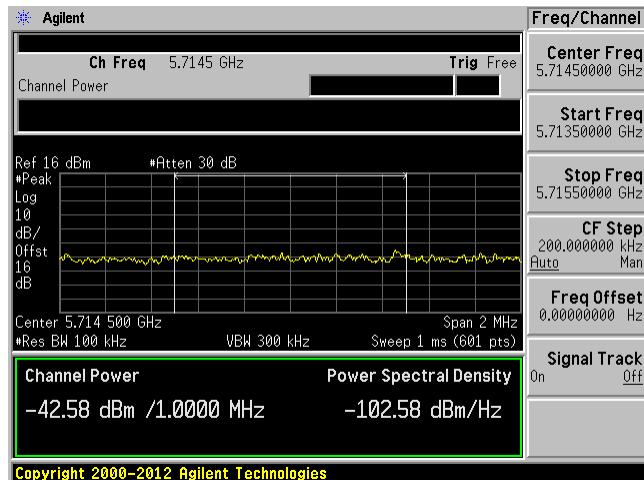


(3) IC Band-Edge**802.11a mode chain 1**

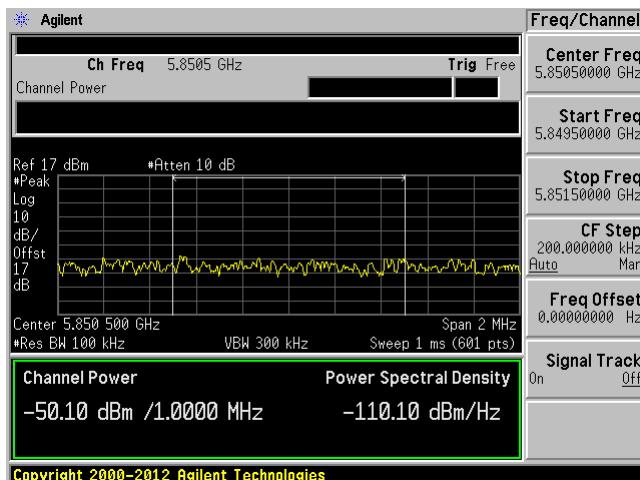
Low Channel: 5745 MHz (-17 dBm/MHz limit)



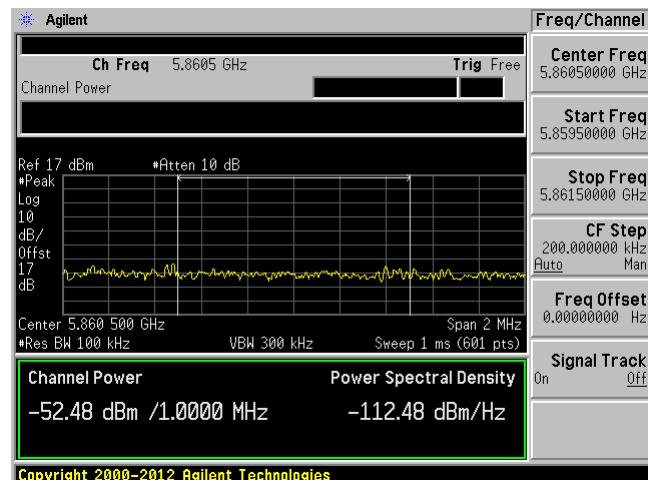
Low Channel: 5745 MHz (-27 dBm/MHz limit)



High Channel: 5825 MHz (-17 dBm/MHz limit)

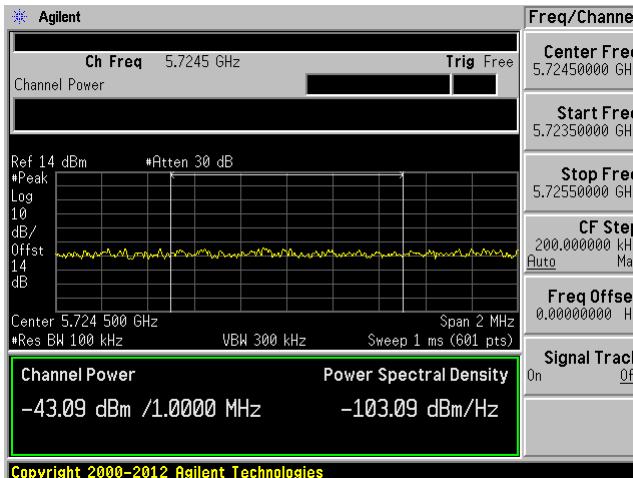


High Channel: 5825 MHz (-27 dBm/MHz limit)

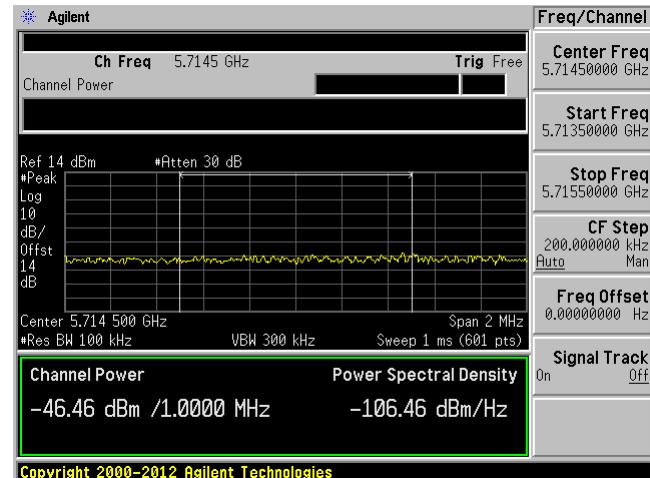


802.11a mode chain 2

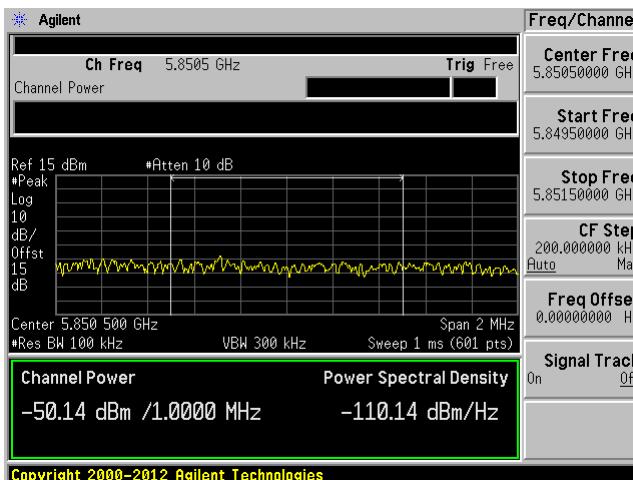
Low Channel: 5745 MHz (-17 dBm/MHz limit)



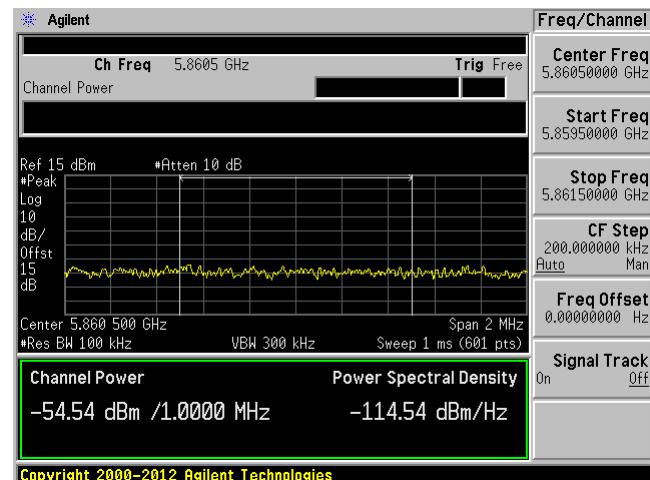
Low Channel: 5745 MHz (-27 dBm/MHz limit)



High Channel: 5825 MHz (-17 dBm/MHz limit)

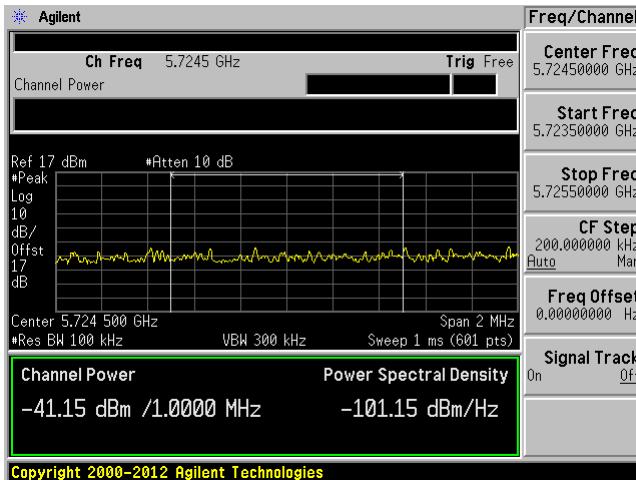


High Channel: 5825 MHz (-27 dBm/MHz limit)

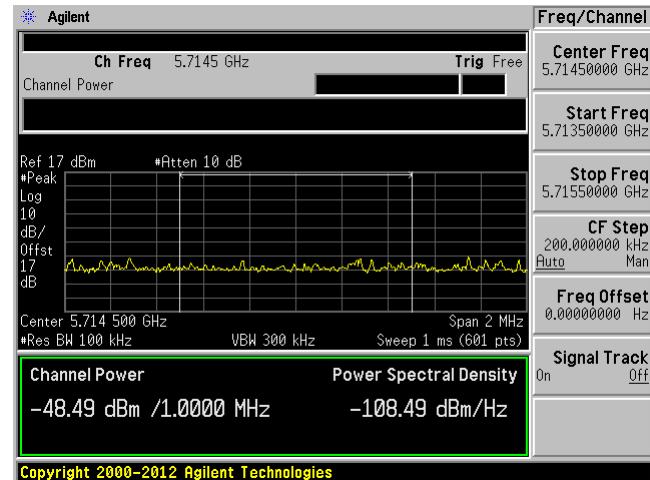


802.11n20 mode chain 1

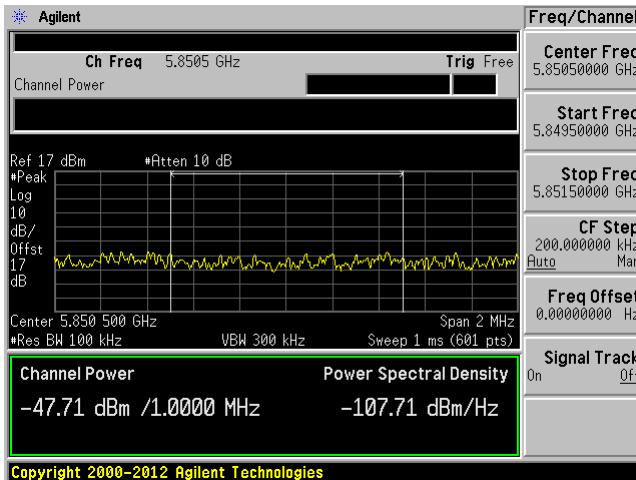
Low Channel: 5745 MHz (-17 dBm/MHz limit)



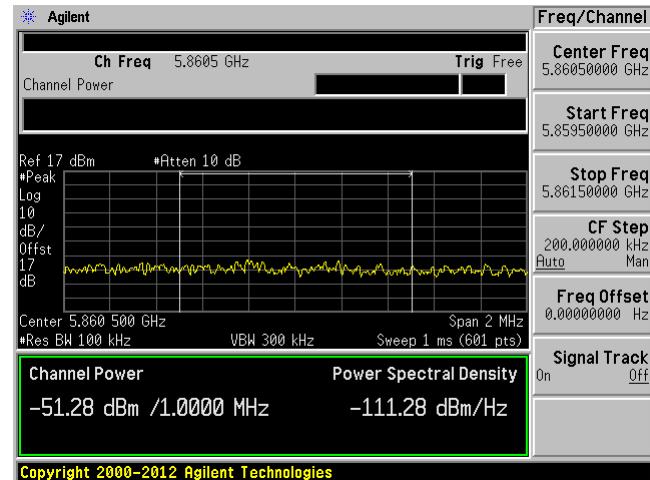
Low Channel: 5745 MHz (-27 dBm/MHz limit)



High Channel: 5825 MHz (-17 dBm/MHz limit)

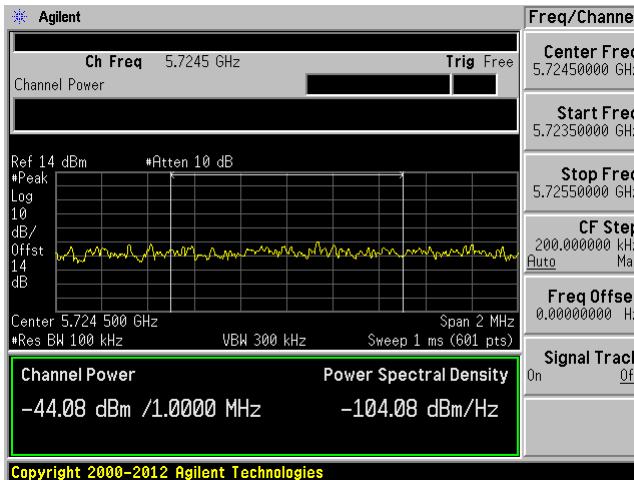


High Channel: 5825 MHz (-27 dBm/MHz limit)

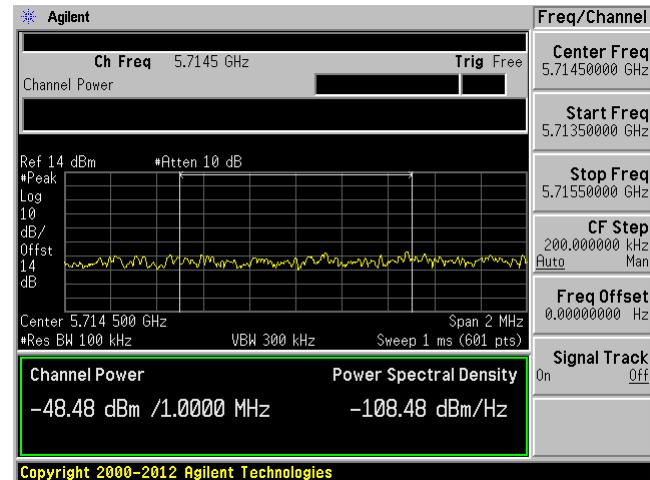


802.11n20 mode chain 2

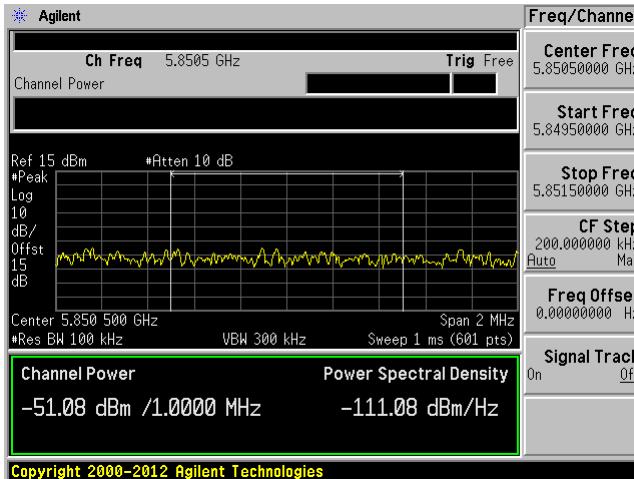
Low Channel: 5745 MHz (-17 dBm/MHz limit)



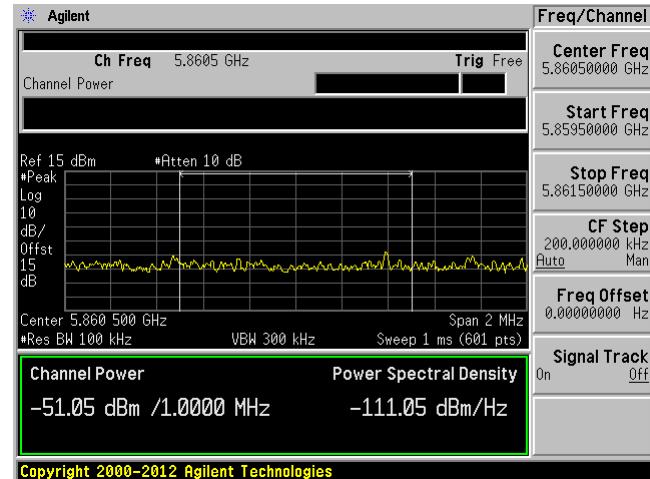
Low Channel: 5745 MHz (-27 dBm/MHz limit)



High Channel: 5825 MHz (-17 dBm/MHz limit)

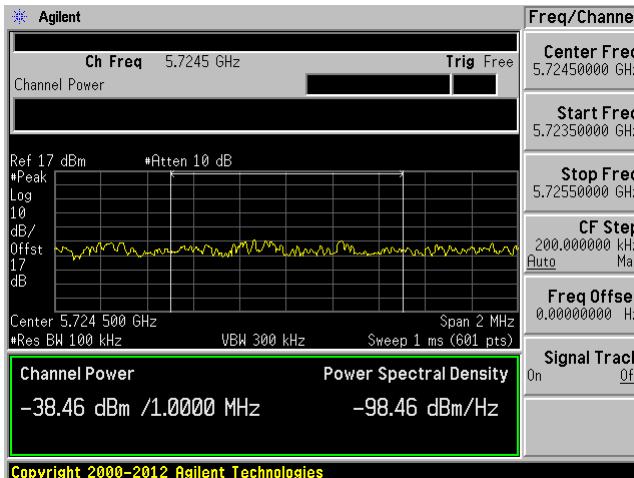


High Channel: 5825 MHz (-27 dBm/MHz limit)

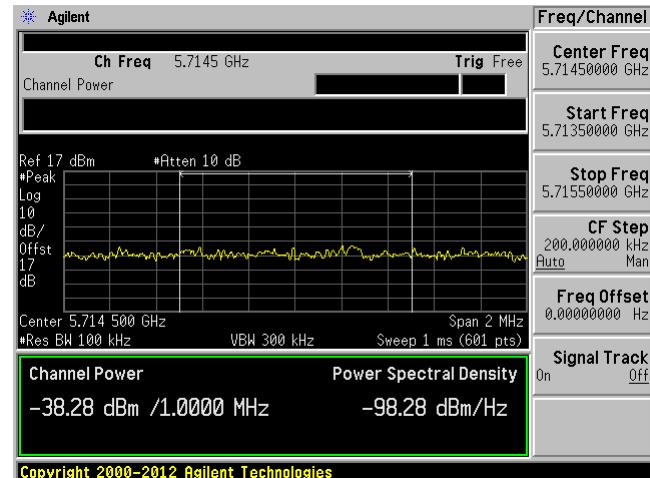


802.11n40 mode chain 1

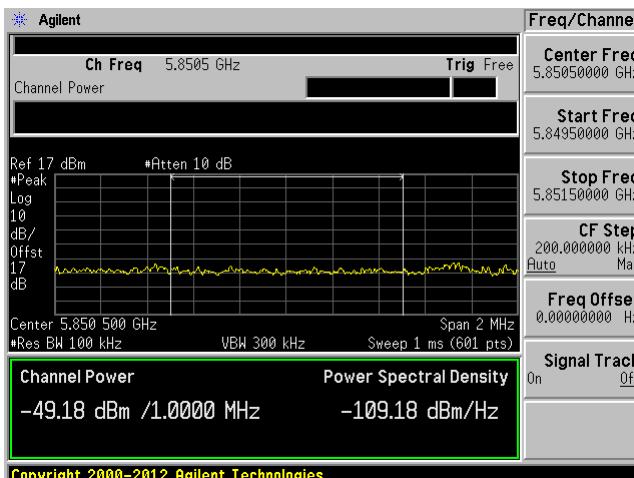
Low Channel: 5755 MHz (-17 dBm/MHz limit)



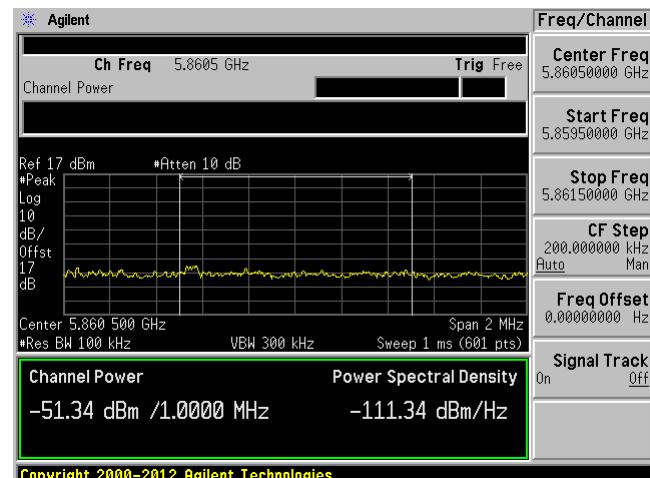
Low Channel: 5755 MHz (-27 dBm/MHz limit)



High Channel: 5795 MHz (-17 dBm/MHz limit)

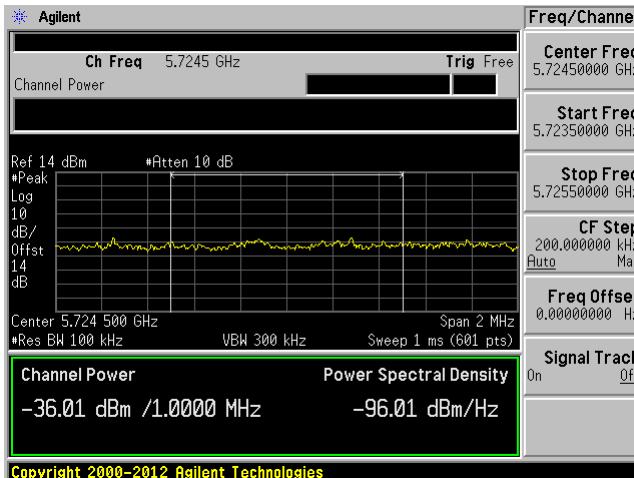


High Channel: 5795 MHz (-27 dBm/MHz limit)

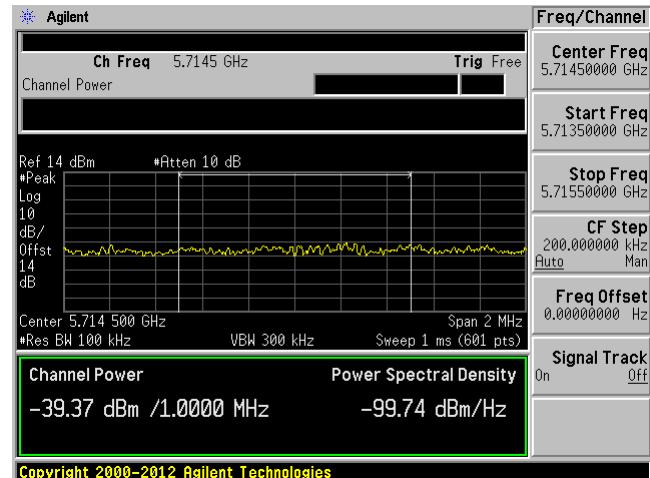


802.11n40 mode chain 2

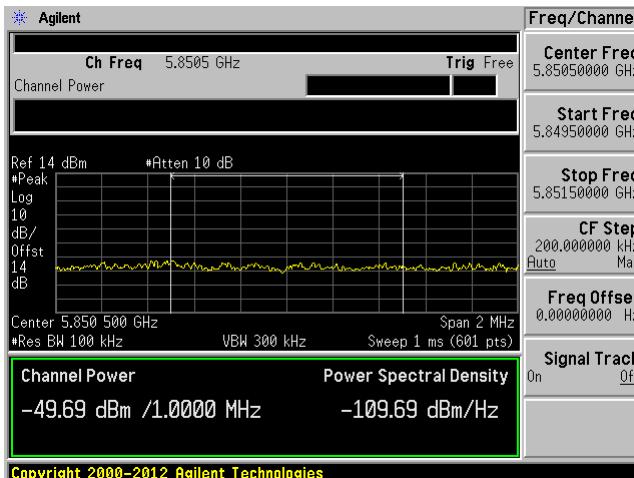
Low Channel: 5755 MHz (-17 dBm/MHz limit)



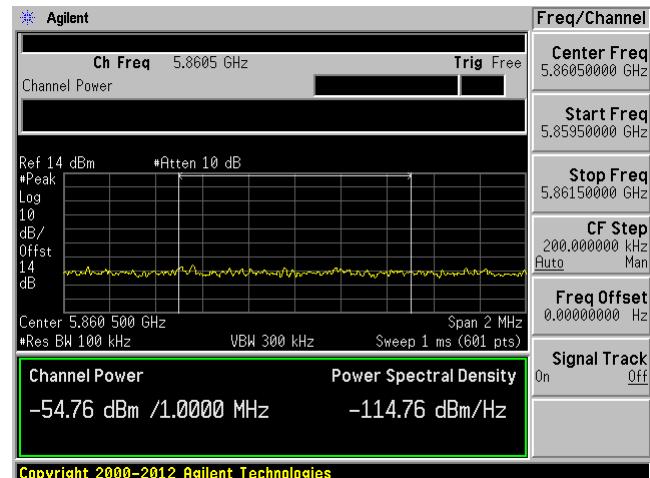
Low Channel: 5755 MHz (-27 dBm/MHz limit)



High Channel: 5795 MHz (-17 dBm/MHz limit)

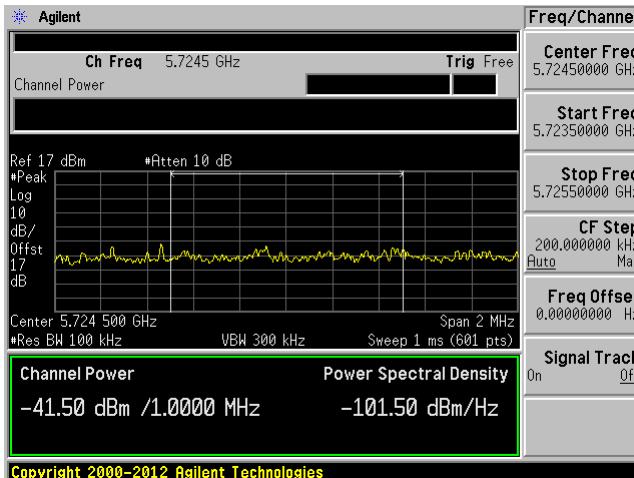


High Channel: 5795 MHz (-27 dBm/MHz limit)

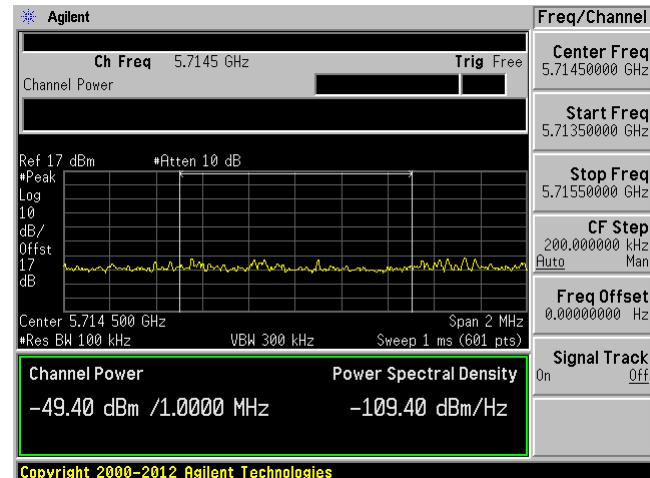


802.11ac20 mode chain 1

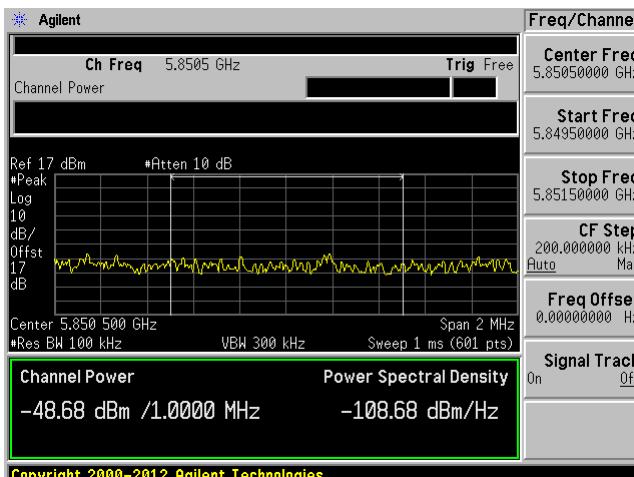
Low Channel: 5745 MHz (-17 dBm/MHz limit)



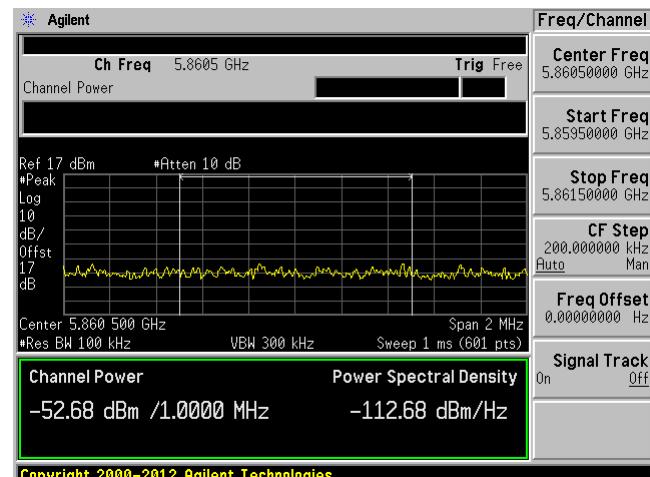
Low Channel: 5745 MHz (-27 dBm/MHz limit)



High Channel: 5825 MHz (-17 dBm/MHz limit)

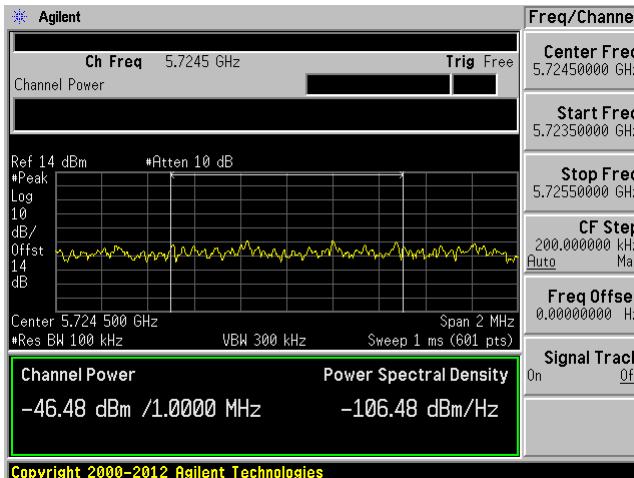


High Channel: 5825 MHz (-27 dBm/MHz limit)

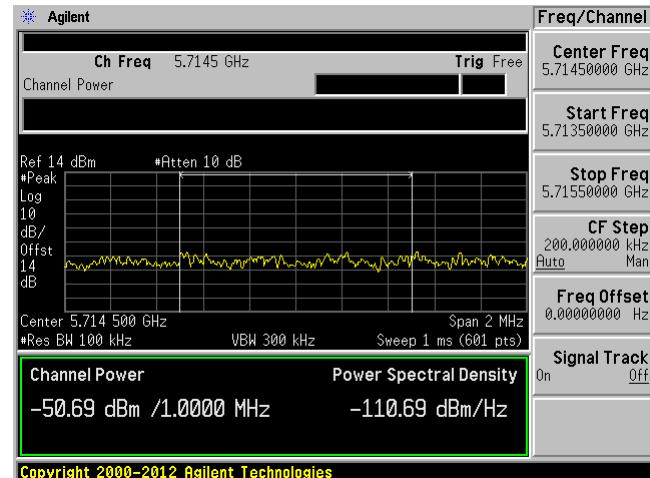


802.11ac20 mode chain 2

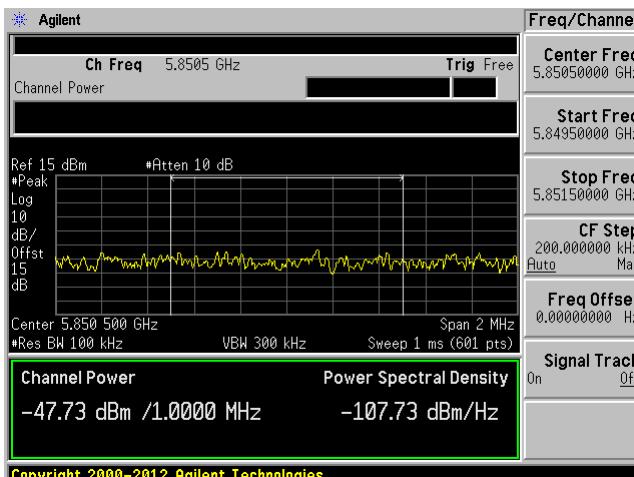
Low Channel: 5745 MHz (-17 dBm/MHz limit)



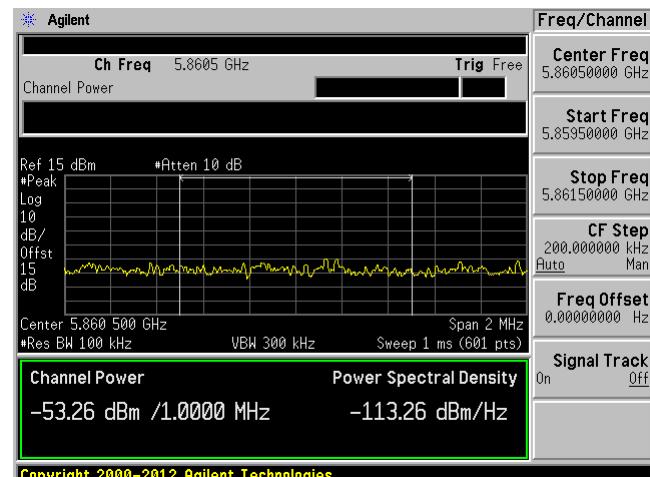
Low Channel: 5745 MHz (-27 dBm/MHz limit)



High Channel: 5825 MHz (-17 dBm/MHz limit)

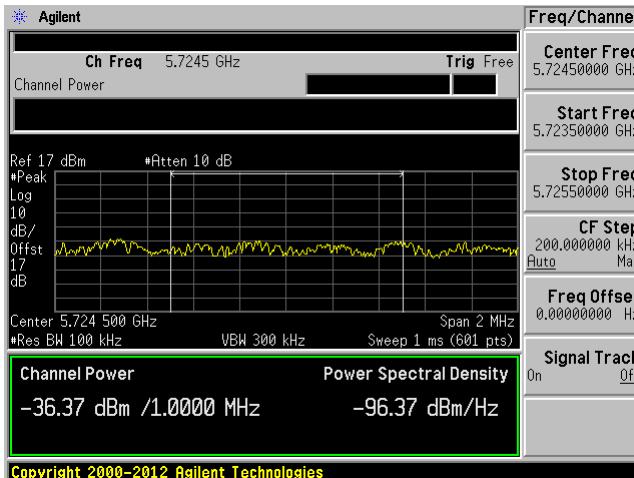


High Channel: 5825 MHz (-27 dBm/MHz limit)

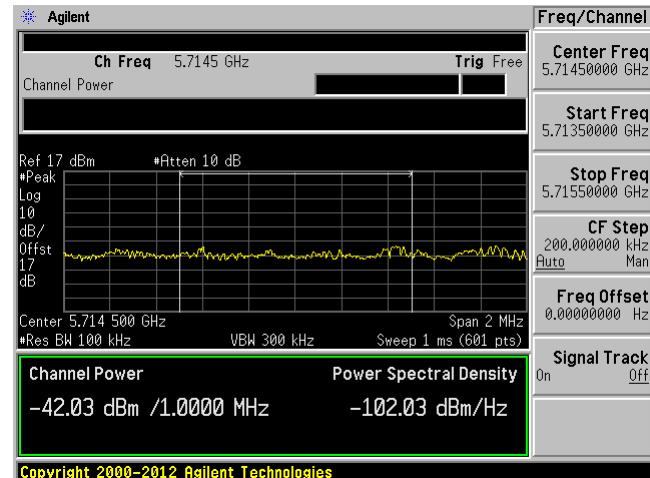


802.11ac40 mode chain 1

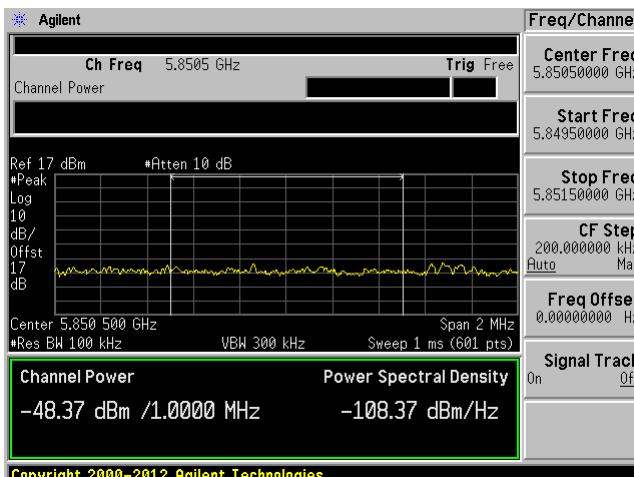
Low Channel: 5755 MHz (-17 dBm/MHz limit)



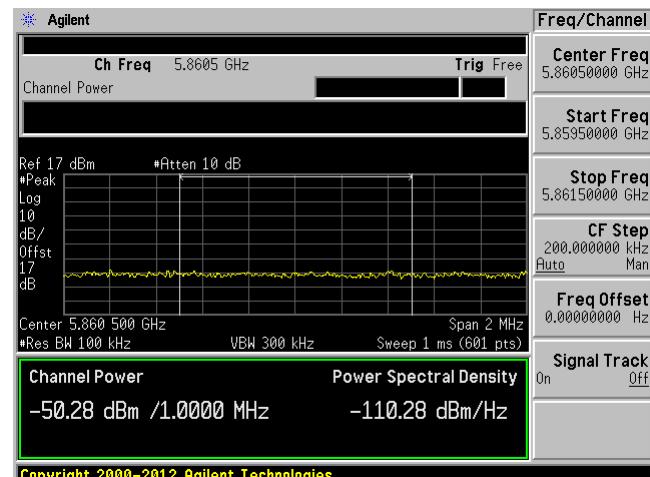
Low Channel: 5755 MHz (-27 dBm/MHz limit)



High Channel: 5795 MHz (-17 dBm/MHz limit)

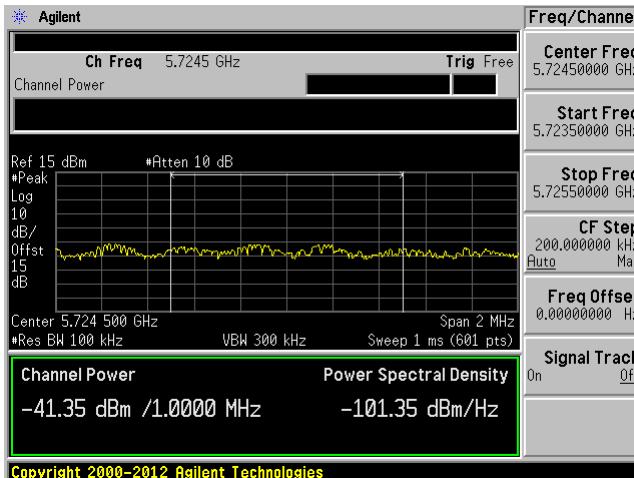


High Channel: 5795 MHz (-27 dBm/MHz limit)

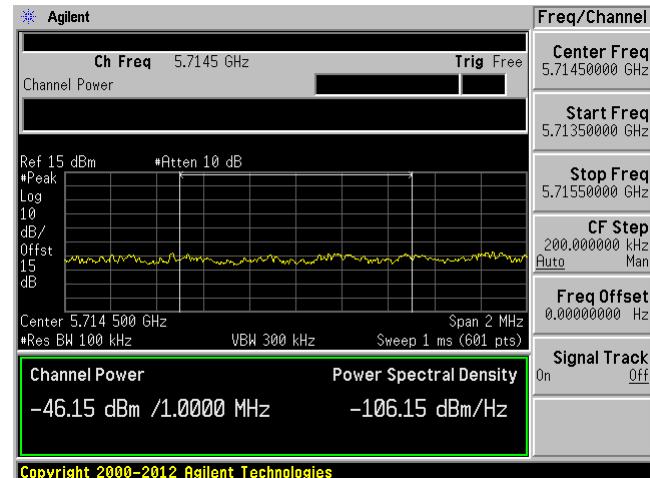


802.11ac40 mode chain 2

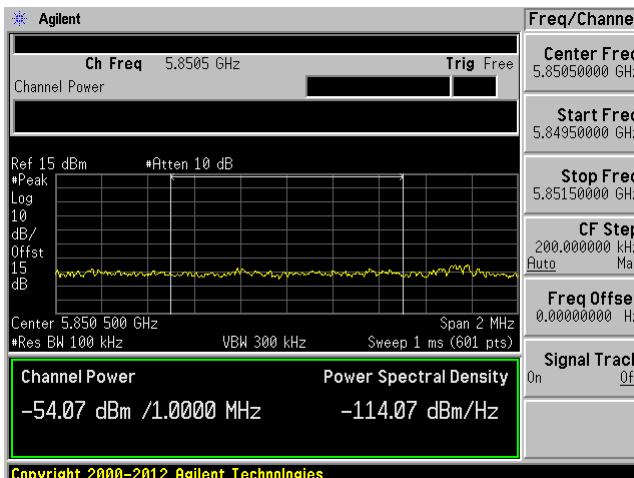
Low Channel: 5755 MHz (-17 dBm/MHz limit)



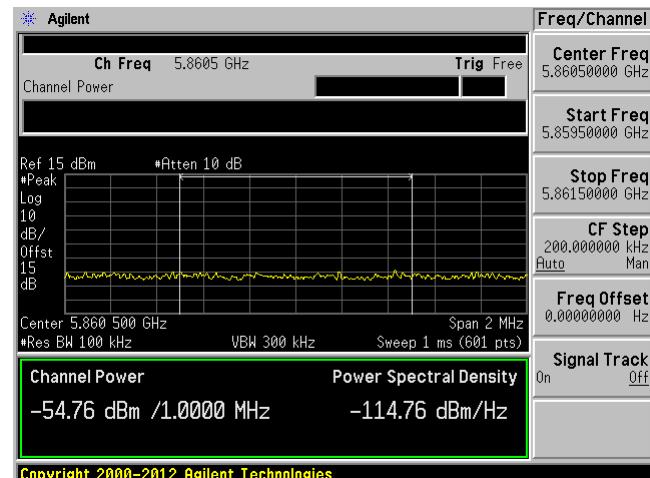
Low Channel: 5755 MHz (-27 dBm/MHz limit)



High Channel: 5795 MHz (-17 dBm/MHz limit)



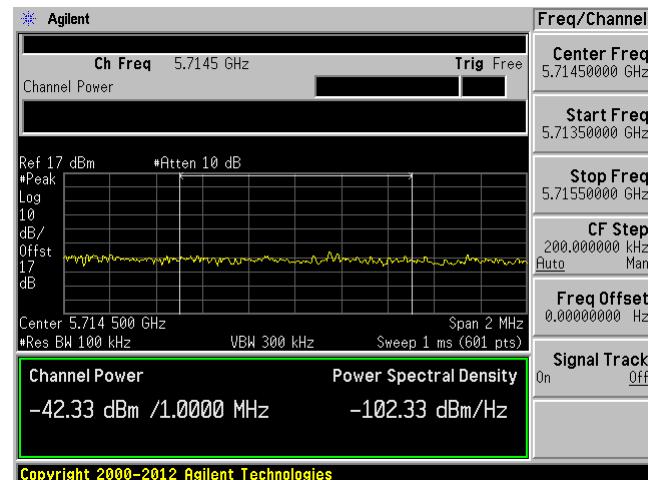
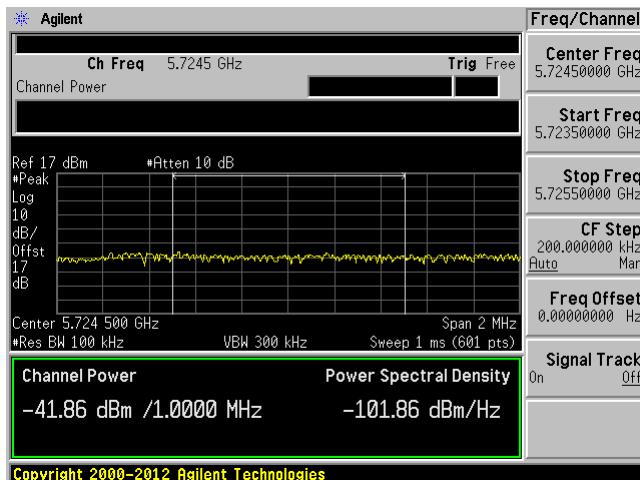
High Channel: 5795 MHz (-27 dBm/MHz limit)



802.11ac80 mode chain 1

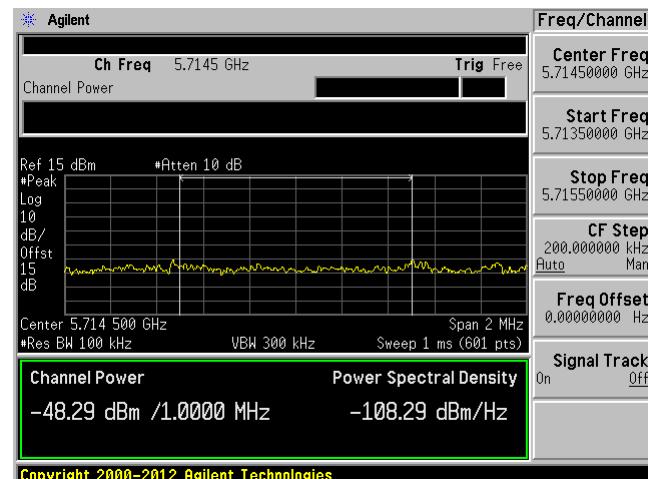
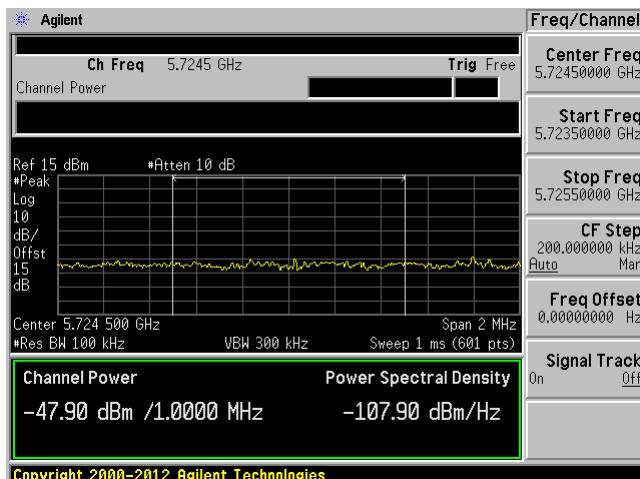
5775 MHz (-17 dBm/MHz limit)

5775 MHz (-27 dBm/MHz limit)

**802.11ac80 mode chain 2**

5775 MHz (-17 dBm/MHz limit)

5775 MHz (-27 dBm/MHz limit)



Note 1: Antenna gain has been considered for the out-of-band and band edge measurements.

Note 2: the -17 dBm/MHz and the -27 dBm/MHz measurements in 5725-5850 MHz band are for IC certification; emission mask measurements in 5725-5850 MHz band are for FCC certification.