

TEST REPORT

Reference No..... : WTX21X05051655W-1
FCC ID : 2AABK-SKYV3
Applicant : Shenzhen Chuangwei Electronic Appliance Tech Co., Ltd.
Address : 4F & 6F, Overseas plant south, Skyworth Industrial Park, Shiyan Street,
Bao'an District, Shenzhen, China
Product Name : 10 inch WIFI Digital Photo Frame
Test Model. : SKYV3
Standards : FCC Part 15.407
Date of Receipt sample : May. 28, 2021
Date of Test..... : May. 28, 2021 to Jun. 11, 2021
Date of Issue : Jun. 11, 2021
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

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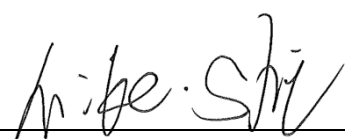
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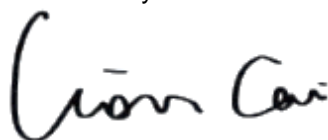
Tested by:

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Mike Shi / Project Engineer



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Report version

| Version No. | Date of issue | Description |
|-------------|---------------|-------------|
| Rev.00 | Jun. 11, 2021 | Original |
| / | / | / |

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Shenzhen Chuangwei Electronic Appliance Tech Co., Ltd.
 Address of applicant: 4F & 6F, Overseas plant south, Skyworth Industrial Park,
 Shiyuan Street, Bao'an District, Shenzhen, China

Manufacturer: Shenzhen Chuangwei Electronic Appliance Tech Co., Ltd.
 Address of manufacturer: 4F & 6F, Overseas plant south, Skyworth Industrial Park,
 Shiyuan Street, Bao'an District, Shenzhen, China

| General Description of EUT | |
|--|---|
| Product Name: | 10 inch WIFI Digital Photo Frame |
| Trade Name: | Skylight |
| Model No.: | SKYV3 |
| Adding Model(s): | / |
| Rated Voltage: | DC 5V |
| Battery Capacity: | / |
| Power Adapter: | MODEL: S85A02 INPUT: AC100-240V, 50/60Hz, 0.5A OUTPUT: DC5V, 2.0A |
| Software Version: | / |
| Hardware Version: | / |
| <i>Note: The test data is gathered from a production sample, provided by the manufacturer.</i> | |

| Technical Characteristics of EUT | |
|----------------------------------|---|
| Support Standards: | 802.11a, 802.11n(HT20), 802.11n-HT40, |
| Frequency Range: | 5150-5250MHz, 5250-5350MHz, 5470-5725MHz, 5725-5850MHz |
| RF Output Power: | 9.63dBm (Conducted) |
| Type of Modulation: | BPSK, QPSK,16QAM,64QAM |
| Quantity of Channels: | 15 |
| Type of Antenna: | Integral Antenna |
| Antenna Gain: | 3.58dBi |

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.407: General technical requirements.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

KDB789033 D02 v02r01: GUIDELINES FOR COMPLIANCE TESTING OF UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE (U-NII) DEVICES PART 15, SUBPARTE.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, KDB789033 D02 v02r01. The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

1.4 Table for parameters of Test Software setting

Run adb commands and follow the instructions given by the manufacturer, you can start to test. During testing, Channel and Power Controlling commands provided by the customer was used to control the operating channel as well as the output power level. Test use the customer default power level, and to measure its highest possible emissions level, more detailed description as follows:

| Mode | Test Frequency (MHz) | | | | | | | | | | | | |
|----------------------|----------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| | NCB: 20MHz | | | | | | | | | | | | |
| | 5180 | 5200 | 5240 | 5260 | 5300 | 5320 | 5500 | 5580 | 5700 | 5720 | 5745 | 5785 | 5825 |
| 802.11a 6Mbps | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | / | 48 | 48 | 48 |
| 802.11n-HT20 MCS0 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | / | 48 | 48 | 48 |
| Mode | NCB: 40MHz | | | | | | | | | | | | |
| | 5190 | 5230 | 5270 | 5310 | 5510 | 5550 | 5670 | 5710 | 5755 | 5795 | | | |
| 802.11n-HT40 MCS0 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | / | 48 | | | | |

1.5 EUT Operating during test

EUT was programmed to be in continuously transmitting mode. During the test, EUT operation to normal function and programs under Android were executed.

1.6 Test Facility

Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

1.7 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, with a duty cycle equal to 100%, and to measure its highest possible emissions level, more detailed description as follows:

| Test Mode List | | |
|----------------|--------------|--|
| Test Mode | Description | Remark |
| TM1 | 802.11a | 5180MHz,5200MHz,5240MHz,5260MHz,5280MHz,5320MHz,5500MHz,5600MHz,5700MHz,5745MHz, 5785MHz,5825MHz |
| TM2 | 802.11n-HT20 | 5180MHz,5200MHz,5240MHz,5260MHz,5280MHz,5320MHz,5500MHz,5600MHz,5700MHz,5745MHz, 5785MHz,5825MHz |
| TM3 | 802.11n-HT40 | 5190MHz,5230MHz,5270MHz,5310MHz,5510MHz,5590MHz,5670MHz,5755MHz,5795MHz |

Note: All test modes (different data rate and different modulation) are performed, but only the worst case is recorded in this report.

| Test Conditions | |
|--------------------|-----------|
| Temperature: | 22~25 °C |
| Relative Humidity: | 45~55 %. |
| ATM Pressure: | 1019 mbar |

| EUT Cable List and Details | | | |
|----------------------------|------------|---------------------|------------------------|
| Cable Description | Length (m) | Shielded/Unshielded | With / Without Ferrite |
| DC Cable | 1.8 | Unshielded | Without Ferrite |

| Special Cable List and Details | | | |
|--------------------------------|------------|---------------------|------------------------|
| Cable Description | Length (m) | Shielded/Unshielded | With / Without Ferrite |
| USB Cable | 0.8 | Shielded | Without Ferrite |

| Auxiliary Equipment List and Details | | | |
|--------------------------------------|--------------|-----------------|---------------|
| Description | Manufacturer | Model | Serial Number |
| Computer | Lenovo | TianYi310-14ISK | / |

1.8 Measurement Uncertainty

| Measurement uncertainty | | |
|--------------------------------|------------|--------------------------------|
| Parameter | Conditions | Uncertainty |
| RF Output Power | Conducted | $\pm 0.42\text{dB}$ |
| Occupied Bandwidth | Conducted | $\pm 1.5\%$ |
| Power Spectral Density | Conducted | $\pm 1.8\text{dB}$ |
| Conducted Spurious Emission | Conducted | $\pm 2.17\text{dB}$ |
| Conducted Emissions | Conducted | 9-150kHz $\pm 3.74\text{dB}$ |
| | | 0.15-30MHz $\pm 3.34\text{dB}$ |
| Transmitter Spurious Emissions | Radiated | 30-200MHz $\pm 4.52\text{dB}$ |
| | | 0.2-1GHz $\pm 5.56\text{dB}$ |
| | | 1-6GHz $\pm 3.84\text{dB}$ |
| | | 6-18GHz $\pm 3.92\text{dB}$ |

1.9 Test Equipment List and Details

| No. | Description | Manufacturer | Model | Serial No. | Cal Date | Due. Date |
|-----------|-------------------------|------------------------|-----------------------|-------------|------------|------------|
| SEMT-1075 | Communication Tester | Rohde & Schwarz | CMW500 | 148650 | 2021-03-27 | 2022-03-26 |
| SEMT-1063 | GSM Tester | Rohde & Schwarz | CMU200 | 114403 | 2021-03-27 | 2022-03-26 |
| SEMT-1072 | Spectrum Analyzer | Agilent | E4407B | MY41440400 | 2021-03-27 | 2022-03-26 |
| SEMT-1079 | Spectrum Analyzer | Agilent | N9020A | US47140102 | 2021-03-27 | 2022-03-26 |
| SEMT-1080 | Signal Generator | Agilent | 83752A | 3610A01453 | 2021-03-27 | 2022-03-26 |
| SEMT-1081 | Vector Signal Generator | Agilent | N5182A | MY47070202 | 2021-03-27 | 2022-03-26 |
| SEMT-1028 | Power Divider | Weinschel | 1506A | PM204 | 2021-03-27 | 2022-03-26 |
| SEMT-1082 | Power Divider | RF-Lambda | RFLT4W5M18G | 14110400027 | 2021-03-27 | 2022-03-26 |
| SEMT-1031 | Spectrum Analyzer | Rohde & Schwarz | FSP30 | 836079/035 | 2021-03-27 | 2022-03-26 |
| SEMT-1007 | EMI Test Receiver | Rohde & Schwarz | ESVB | 825471/005 | 2021-03-27 | 2022-03-26 |
| SEMT-1008 | Amplifier | Agilent | 8447F | 3113A06717 | 2021-04-12 | 2022-04-11 |
| SEMT-1043 | Amplifier | C&D | PAP-1G18 | 2002 | 2021-04-12 | 2022-04-11 |
| SEMT-1069 | Loop Antenna | Schwarz beck | FMZB 1516 | 9773 | 2021-03-19 | 2023-03-18 |
| SEMT-1068 | Broadband Antenna | Schwarz beck | VULB9163 | 9163-333 | 2021-03-19 | 2023-03-18 |
| SEMT-1042 | Horn Antenna | ETS | 3117 | 00086197 | 2021-03-19 | 2023-03-18 |
| SEMT-1121 | Horn Antenna | Schwarzbeck | BBHA 9170 | BBHA9170582 | 2021-04-27 | 2023-04-26 |
| SEMT-1169 | Pre-amplifier | Direction Systems Inc. | PAP-2640 | 14145-14153 | 2021-04-27 | 2022-04-26 |
| SEMT-1163 | Spectrum Analyzer | Rohde & Schwarz | FSP40 | 100612 | 2021-03-27 | 2022-03-26 |
| SEMT-1166 | Power Limiter | Agilent | N9356B | MY45450376 | 2021-03-27 | 2022-03-26 |
| SEMT-1076 | RF Switcher | Top Precision | RCS03-A2 | / | 2021-03-19 | 2023-03-18 |
| SEMT-C001 | Cable | Zheng DI | LL142-07-07-10M(A) | / | / | / |
| SEMT-C002 | Cable | Zheng DI | ZT40-2.92J-2.92J-6M | / | / | / |
| SEMT-C003 | Cable | Zheng DI | ZT40-2.92J-2.92J-2.5M | / | / | / |
| SEMT-C004 | Cable | Zheng DI | 2M0RFC | / | / | / |
| SEMT-C005 | Cable | Zheng DI | 1M0RFC | / | / | / |
| SEMT-C006 | Cable | Zheng DI | 1M0RFC | / | / | / |

| Software List | | | |
|--|---------------------|--------------|----------------|
| Description | Manufacturer | Model | Version |
| EMI Test Software (Radiated Emission)* | Farad | EZ-EMC | RA-03A1 |
| EMI Test Software (Conducted Emission)* | Farad | EZ-EMC | RA-03A1 |

*Remark: indicates software version used in the compliance certification testing

2. SUMMARY OF TEST RESULTS

| FCC Rules | Description of Test Item | Result |
|--------------------------------|---|-----------|
| §15.203; §15.405 | Antenna Requirement | Compliant |
| 15.407 (c) | Automatically Discontinue Transmission | Compliant |
| §15.207; §15.407(b)(6) | Conducted Emission | Compliant |
| §15.407(a)(1),(2) | Power Spectral Density | Compliant |
| §15.407(e) | Emission Bandwidth and Occupied Bandwidth | Compliant |
| §15.407(a)(1),(2) | Maximum Conducted Output Power | Compliant |
| §15.407(b)(1),(2),(3),(4) | Undesirable emission | Compliant |
| §15.205; §15.407(b)(1),(2),(3) | Radiated Emission | Compliant |
| §15.407(g) | Frequency Stability | Compliant |
| §15.407(h) | Dynamic Frequency Selection (DFS) | Compliant |

N/A: Not applicable

3. Antenna Requirement

3.1 Standard Applicable

According to FCC Part 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.

3.2 Evaluation Information

This product has an integral antenna, fulfill the requirement of this section.

4. Automatically Discontinue Transmission

4.1 Standard Applicable

According to FCC Part 15.407(c), the device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

4.2 Summary of Test Results

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

5. Power Spectral Density

5.1 Standard Applicable

Section 15.407(a) Power limits:

(1) For the band 5.15-5.25 GHz.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, 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.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. 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.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, 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.

5.2 Test Procedure

According to 789033 D02 v02r01 General UNII Test Procedures New Rules v02, the following is the measurement procedure.

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500

kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500kHz bandwidth, the following adjustments to the procedures apply:

- a) Set RBW $\geq 1/T$, where T is defined in section II.B.1.a).
- b) Set VBW ≥ 3 RBW.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/\text{RBW})$ to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/\text{RBW})$ to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the sections 5.c) and 5.d) above, since RBW=100 kHz is available on nearly all spectrum analyzers.

5.3 Summary of Test Results/Plots

Please refer to Appendix A

6. Emission Bandwidth and Occupied Bandwidth

6.1 Standard Applicable

According to 15.407(a) and (e):

(1) For the band 5.15-5.25 GHz.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, 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.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. 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.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, 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.

(e) Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

6.2 Test Procedure

According to 789033 D02 v02r0r section C&D, the following is the measurement procedure.

1. Emission Bandwidth (EBW)

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.

- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

2. Minimum Emission Bandwidth for the band 5.725-5.85 GHz

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

D. 99 Percent Occupied Bandwidth

The 99-percent occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5 % of the total mean power of the given emission. Measurement of the 99-percent occupied bandwidth is required only as a condition for using the optional band-edge measurement techniques described in section II.G.3.d). Measurements of 99-percent occupied bandwidth may also optionally be used in lieu of the EBW to 789033 D02 v02r01 General UNII Test Procedures New Rules v01 define the minimum frequency range over which the spectrum is integrated when measuring maximum conducted output power as described in section II.E. However, the EBW must be measured to determine bandwidth dependent limits on maximum conducted output power in accordance with 15.407(a).

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW $\geq 3 * RBW$
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

6.3 Summary of Test Results/Plots

Please refer to Appendix B

7. Maximum Conducted Output Power

7.1 Standard Applicable

Section 15.407(a) Power limits:

(1) For the band 5.15-5.25 GHz.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, 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.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. 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.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, 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.

7.2 Test Procedure

According to KDB789033 D02 v02r01 section E, the following is the measurement procedure.

- (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) 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.)

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[Http://www.waltek.com.cn](http://www.waltek.com.cn)

- (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 EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument’s band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

7.3 Summary of Test Results/Plots

Please refer to Appendix C

8. Radiated Spurious Emissions

8.1 Standard Applicable

According to §15.407(b), undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
 - (i) 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.

According to §15.407(b)(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.

According to §15.407(b)(7), The provisions of §15.205 apply to intentional radiators operating under this section.
789033 D02 v02r01 General UNII Test Procedures New Rules v01

If radiated measurements are performed, field strength is then converted to EIRP as follows:

$$\text{EIRP} = ((E*d)^2) / 30$$

where:

- E is the field strength in V/m;
- d is the measurement distance in meters;
- EIRP is the equivalent isotropically radiated power in watts.

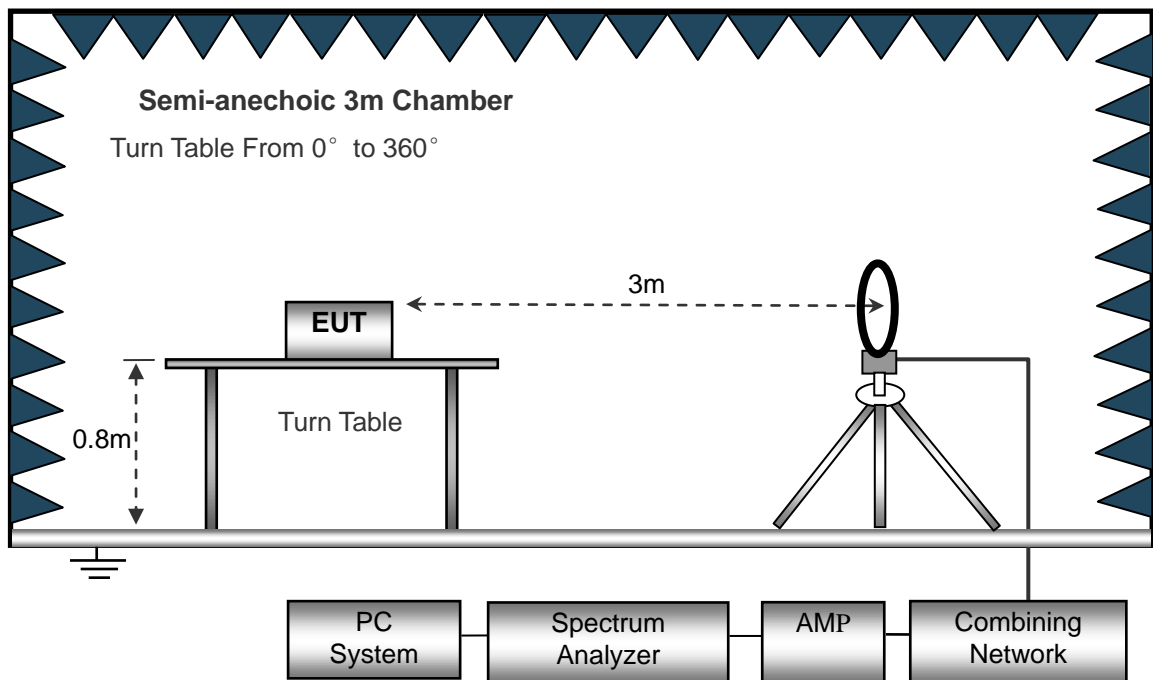
8.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.407(b)(6) and FCC Part 15.209 Limit..

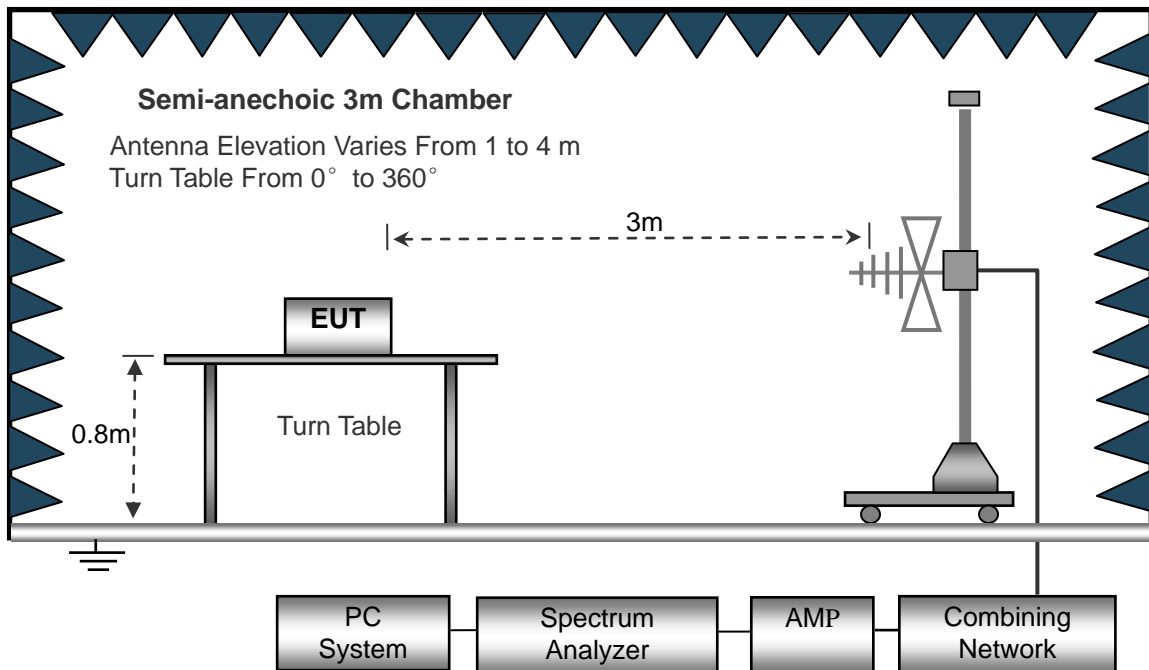
The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

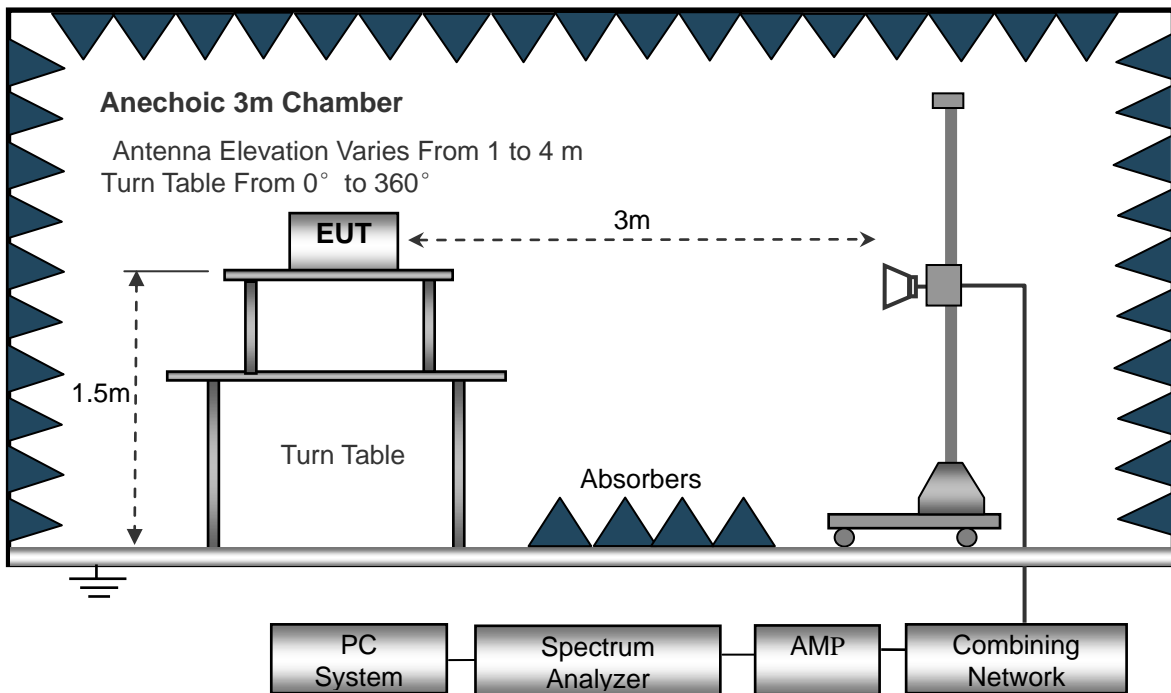
The test setup for emission measurement below 30MHz..



The test setup for emission measurement from 30 MHz to 1 GHz..



The test setup for emission measurement above 1 GHz..



8.3 Test Receiver Setup

During the radiated emission test for above 1GHz, the test receiver was set with the following configurations:

For peak detector:

RBW = 1000kHz, VBW = 3000kHz, Sweep Time = Auto

For average detector:

RBW = 1000kHz, VBW = 10Hz, Sweep Time = Auto

8.4 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB μ V means the emission is 6dB μ V below the maximum limit for Class B. The equation for margin calculation is as follows:

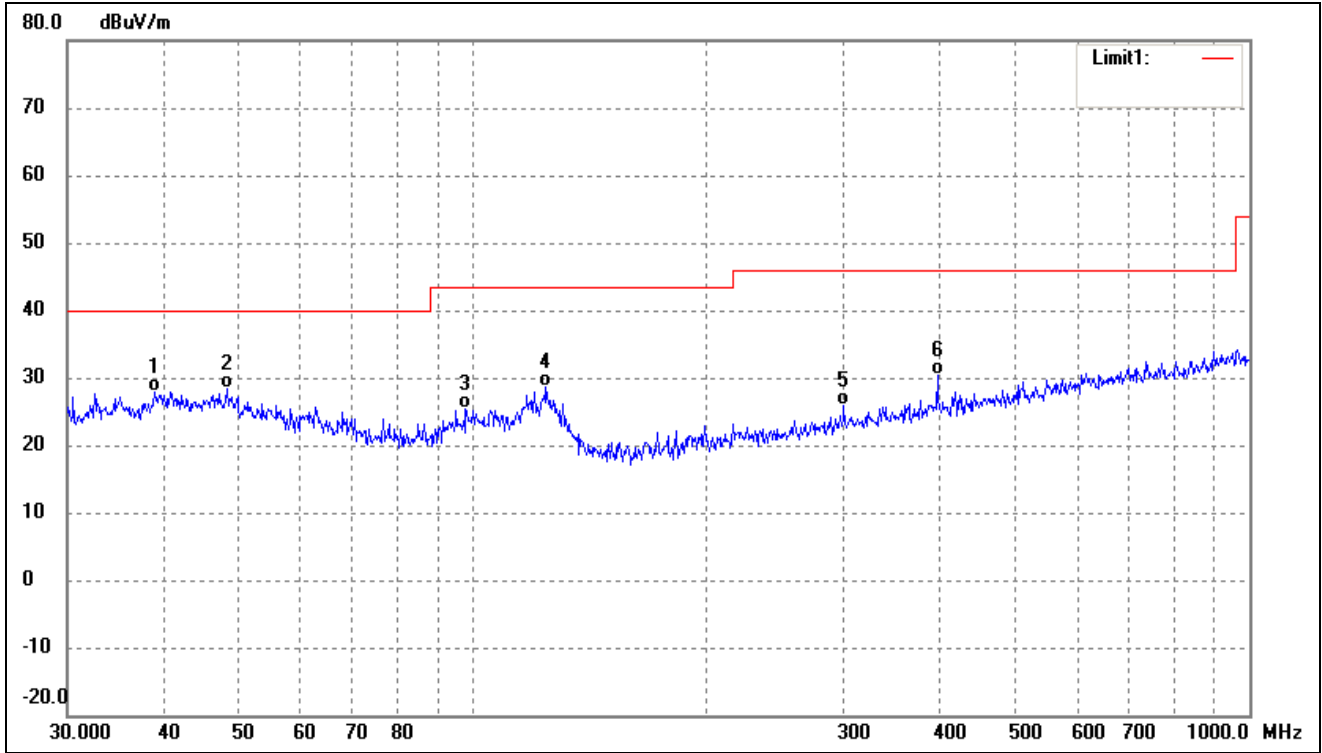
$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

8.5 Summary of Test Results/Plots

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

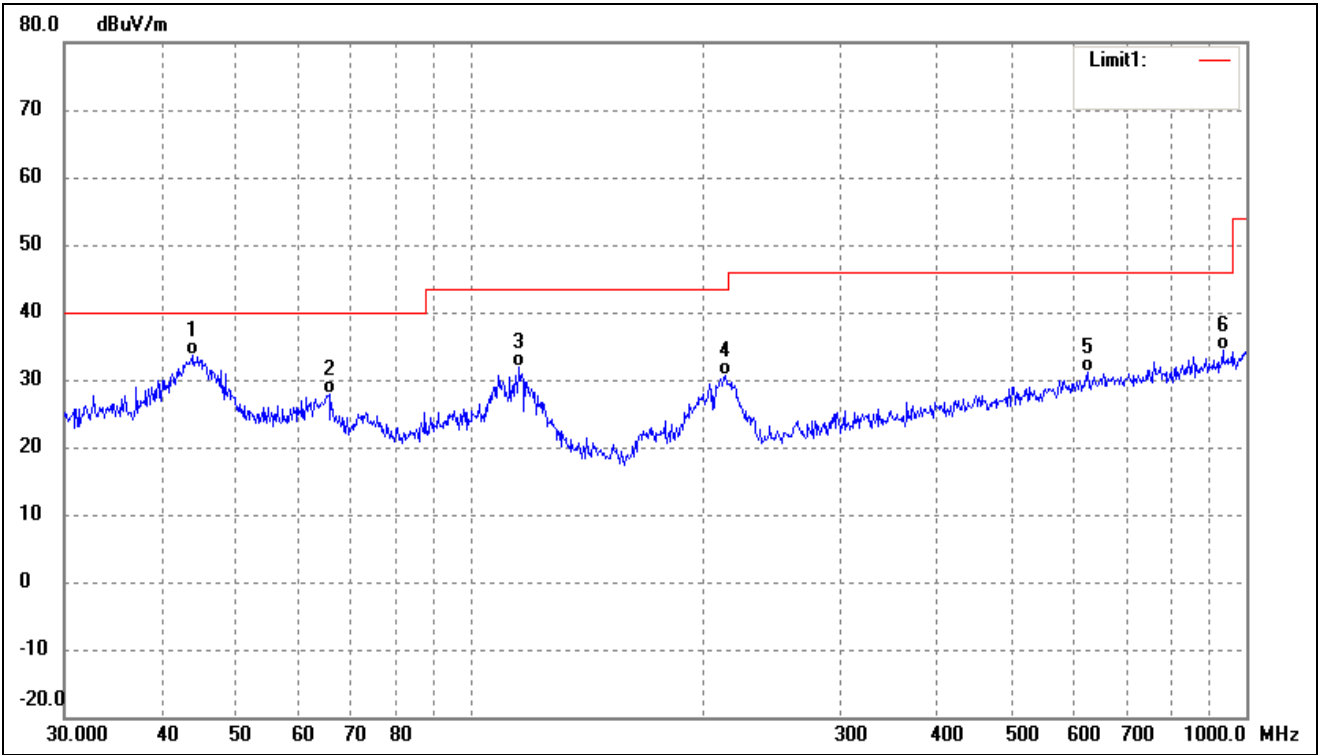
- Spurious Emission From 30 MHz to 1 GHz
- 5150-5250MHz

| | | | |
|---------------------|---------------------|-----------|------------|
| 802.11a(Worst case) | | | |
| Test Channel | 5180MHz(Worst case) | Polarity: | Horizontal |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree () | Height (cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1 | 38.8879 | 34.91 | -7.06 | 27.85 | 40.00 | -12.15 | - | - | QP |
| 2 | 48.1626 | 35.44 | -7.06 | 28.38 | 40.00 | -11.62 | - | - | QP |
| 3 | 97.7983 | 33.90 | -8.42 | 25.48 | 43.50 | -18.02 | - | - | QP |
| 4 | 124.1330 | 38.01 | -9.49 | 28.52 | 43.50 | -14.98 | - | - | QP |
| 5 | 300.3673 | 31.86 | -6.01 | 25.85 | 46.00 | -20.15 | - | - | QP |
| 6 | 396.2415 | 34.06 | -3.65 | 30.41 | 46.00 | -15.59 | - | - | QP |

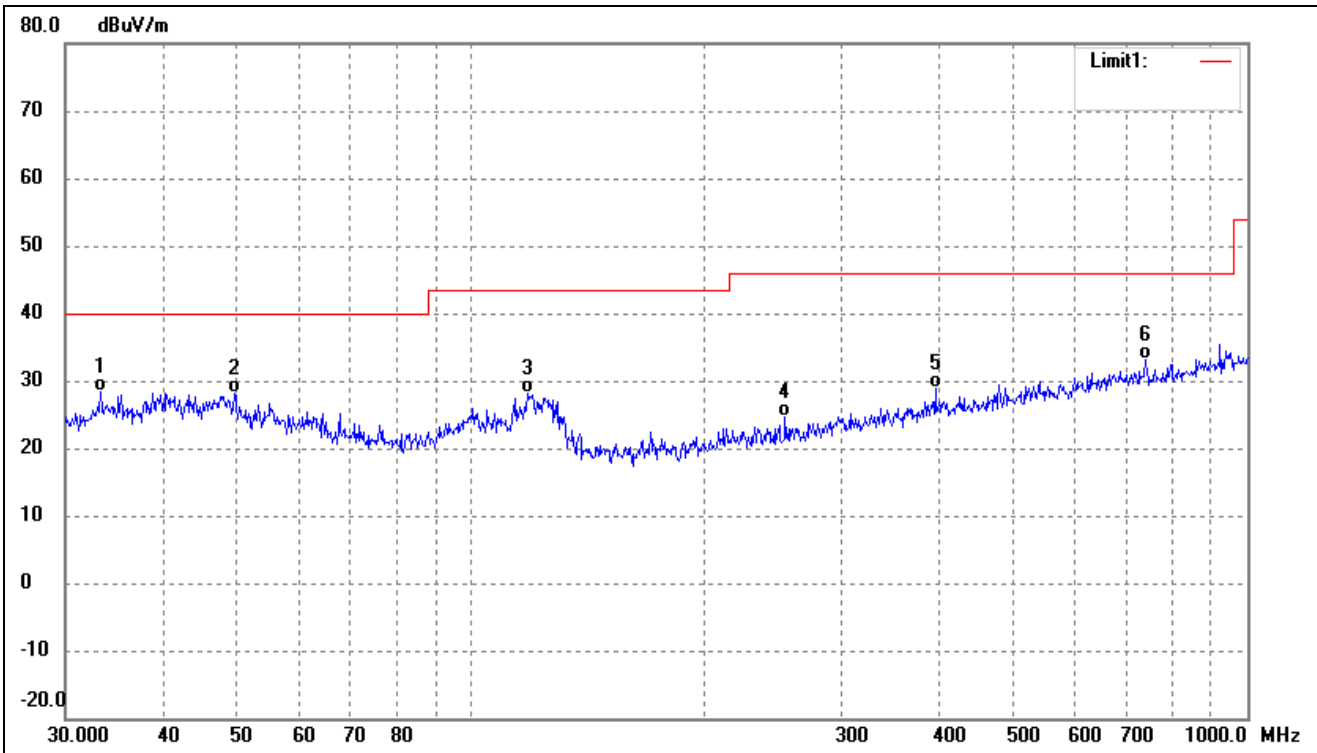
| | | | |
|---------------------|---------------------|-----------|----------|
| 802.11a(Worst case) | | | |
| Test Channel | 5180MHz(Worst case) | Polarity: | Vertical |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree () | Height (cm) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|------------|-------------|--------|
| 1 | 43.9658 | 40.49 | -6.93 | 33.56 | 40.00 | -6.44 | - | - | QP |
| 2 | 65.8031 | 37.67 | -9.90 | 27.77 | 40.00 | -12.23 | - | - | QP |
| 3 | 115.7256 | 40.28 | -8.41 | 31.87 | 43.50 | -11.63 | - | - | QP |
| 4 | 213.0151 | 39.10 | -8.49 | 30.61 | 43.50 | -12.89 | - | - | QP |
| 5 | 625.0780 | 30.42 | 0.61 | 31.03 | 46.00 | -14.97 | - | - | QP |
| 6 | 932.2715 | 29.94 | 4.51 | 34.45 | 46.00 | -11.55 | - | - | QP |

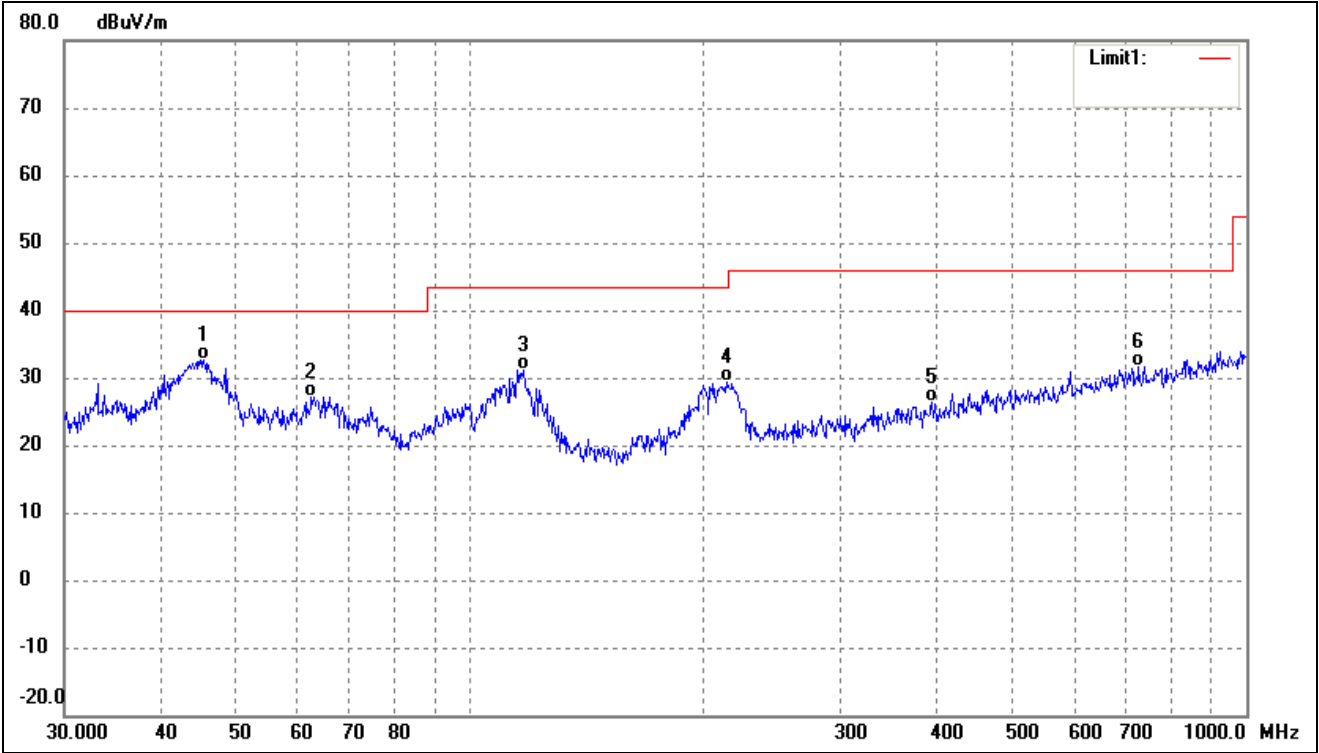
➤ 5250-5350MHz

| | | | |
|---------------------|---------------------|-----------|------------|
| 802.11a(Worst case) | | | |
| Test Channel | 5320MHz(Worst case) | Polarity: | Horizontal |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree () | Height (cm) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|------------|-------------|--------|
| 1 | 33.3279 | 36.67 | -8.34 | 28.33 | 40.00 | -11.67 | - | - | QP |
| 2 | 49.5328 | 35.35 | -7.12 | 28.23 | 40.00 | -11.77 | - | - | QP |
| 3 | 118.1862 | 36.65 | -8.59 | 28.06 | 43.50 | -15.44 | - | - | QP |
| 4 | 253.8367 | 31.88 | -7.29 | 24.59 | 46.00 | -21.41 | - | - | QP |
| 5 | 396.2415 | 32.50 | -3.65 | 28.85 | 46.00 | -17.15 | - | - | QP |
| 6 | 739.6605 | 30.98 | 2.07 | 33.05 | 46.00 | -12.95 | - | - | QP |

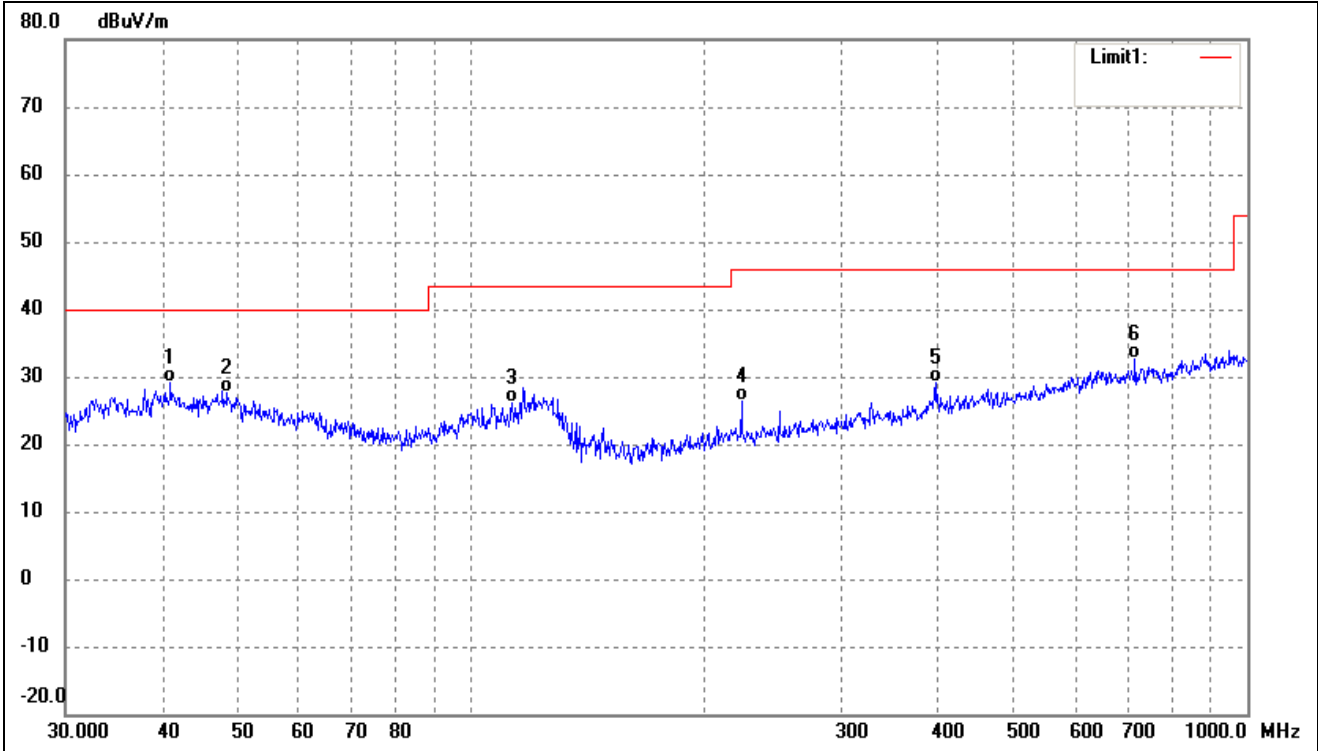
| | | | |
|---------------------|---------------------|-----------|----------|
| 802.11a(Worst case) | | | |
| Test Channel | 5260MHz(worst case) | Polarity: | Vertical |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree () | Height (cm) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|------------|-------------|--------|
| 1 | 45.3755 | 39.65 | -6.97 | 32.68 | 40.00 | -7.32 | - | - | QP |
| 2 | 62.4314 | 36.48 | -9.29 | 27.19 | 40.00 | -12.81 | - | - | QP |
| 3 | 117.3603 | 39.70 | -8.53 | 31.17 | 43.50 | -12.33 | - | - | QP |
| 4 | 213.7634 | 37.91 | -8.47 | 29.44 | 43.50 | -14.06 | - | - | QP |
| 5 | 393.4724 | 30.10 | -3.72 | 26.38 | 46.00 | -19.62 | - | - | QP |
| 6 | 726.8052 | 29.75 | 1.94 | 31.69 | 46.00 | -14.31 | - | - | QP |

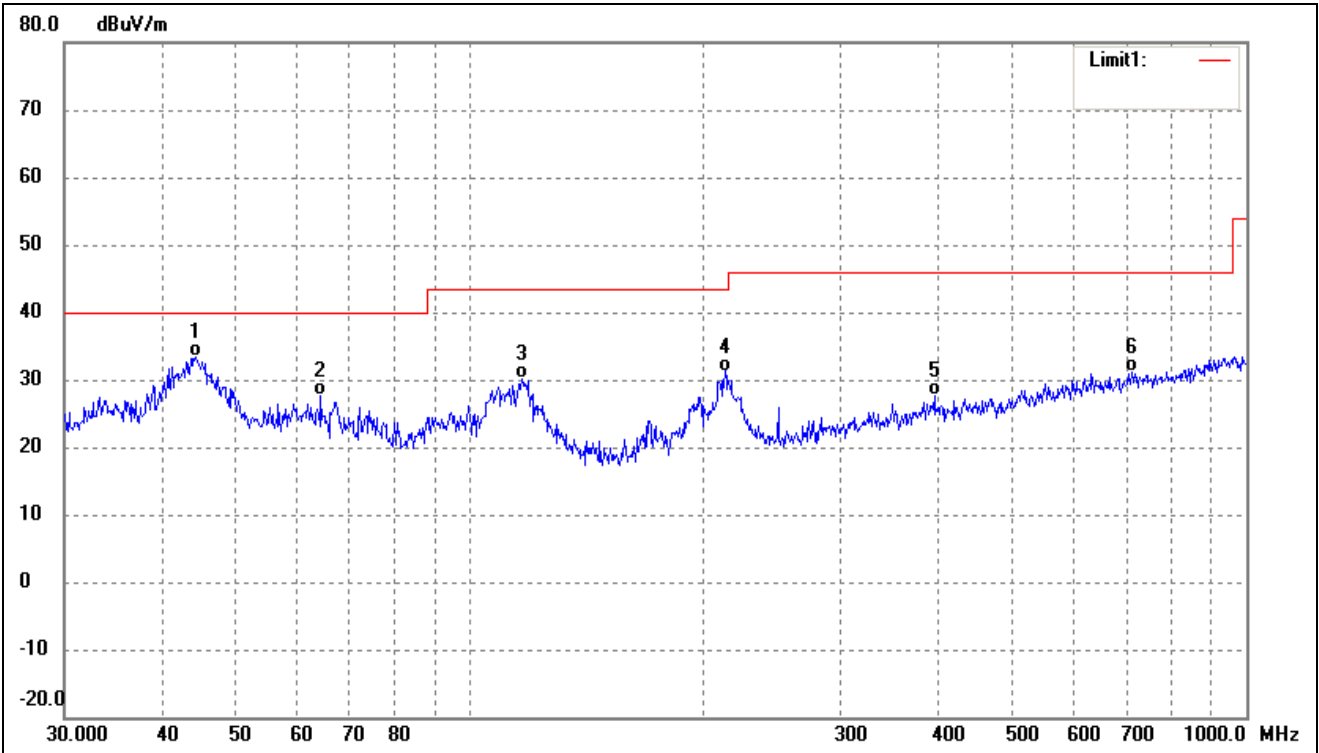
➤ 5470-5725MHz

| | | | |
|---------------------|---------------------|-----------|------------|
| 802.11a(worst case) | | | |
| Test Channel | 5500MHz(worst case) | Polarity: | Horizontal |



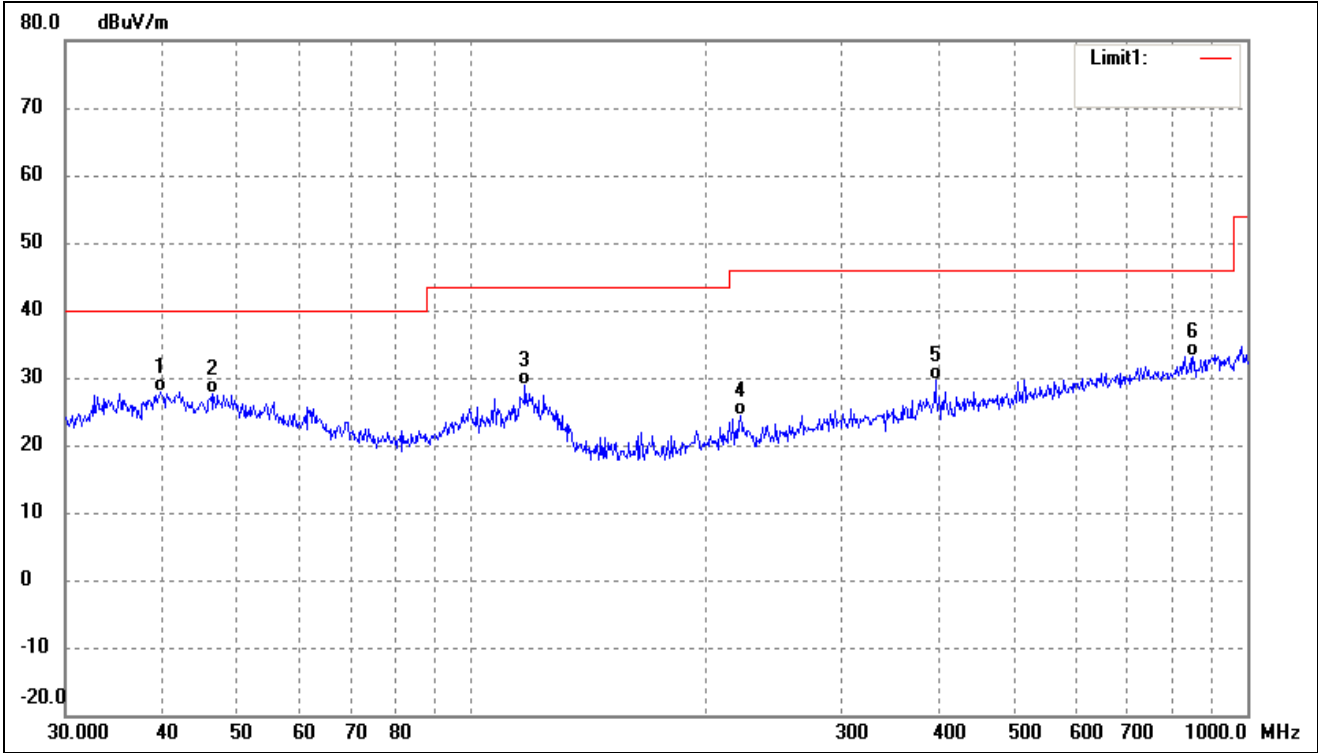
| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree () | Height (cm) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|------------|-------------|--------|
| 1 | 40.9881 | 36.08 | -6.84 | 29.24 | 40.00 | -10.76 | - | - | QP |
| 2 | 48.5016 | 34.82 | -7.08 | 27.74 | 40.00 | -12.26 | - | - | QP |
| 3 | 112.9196 | 34.33 | -8.19 | 26.14 | 43.50 | -17.36 | - | - | QP |
| 4 | 222.9502 | 34.48 | -8.21 | 26.27 | 46.00 | -19.73 | - | - | QP |
| 5 | 396.2415 | 32.68 | -3.65 | 29.03 | 46.00 | -16.97 | - | - | QP |
| 6 | 716.6820 | 30.79 | 1.84 | 32.63 | 46.00 | -13.37 | - | - | QP |

| | | | |
|---------------------|---------------------|-----------|----------|
| 802.11a(worst case) | | | |
| Test Channel | 5500MHz(worst case) | Polarity: | Vertical |



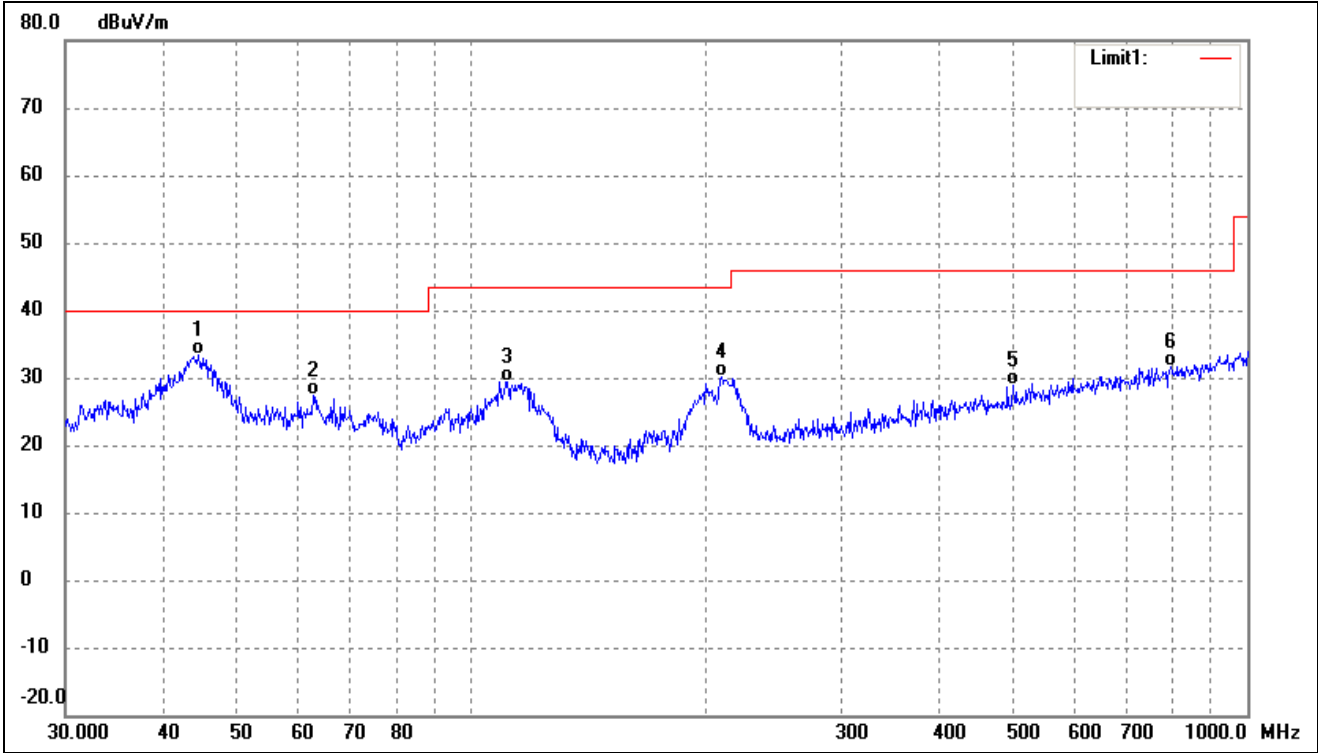
| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree () | Height (cm) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|------------|-------------|--------|
| 1 | 44.2752 | 40.38 | -6.94 | 33.44 | 40.00 | -6.56 | - | - | QP |
| 2 | 64.2075 | 37.22 | -9.62 | 27.60 | 40.00 | -12.40 | - | - | QP |
| 3 | 116.5401 | 38.53 | -8.47 | 30.06 | 43.50 | -13.44 | - | - | QP |
| 4 | 213.0151 | 39.74 | -8.49 | 31.25 | 43.50 | -12.25 | - | - | QP |
| 5 | 396.2415 | 31.29 | -3.65 | 27.64 | 46.00 | -18.36 | - | - | QP |
| 6 | 711.6734 | 29.41 | 1.78 | 31.19 | 46.00 | -14.81 | - | - | QP |

| | | | |
|---------------------|---------------------|-----------|------------|
| 802.11a(worst case) | | | |
| Test Channel | 5700MHz(worst case) | Polarity: | Horizontal |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree () | Height (cm) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|------------|-------------|--------|
| 1 | 39.8542 | 34.70 | -6.84 | 27.86 | 40.00 | -12.14 | - | - | QP |
| 2 | 46.3402 | 34.74 | -7.01 | 27.73 | 40.00 | -12.27 | - | - | QP |
| 3 | 117.3603 | 37.46 | -8.53 | 28.93 | 43.50 | -14.57 | - | - | QP |
| 4 | 222.1698 | 32.57 | -8.23 | 24.34 | 46.00 | -21.66 | - | - | QP |
| 5 | 396.2415 | 33.17 | -3.65 | 29.52 | 46.00 | -16.48 | - | - | QP |
| 6 | 851.0353 | 29.64 | 3.48 | 33.12 | 46.00 | -12.88 | - | - | QP |

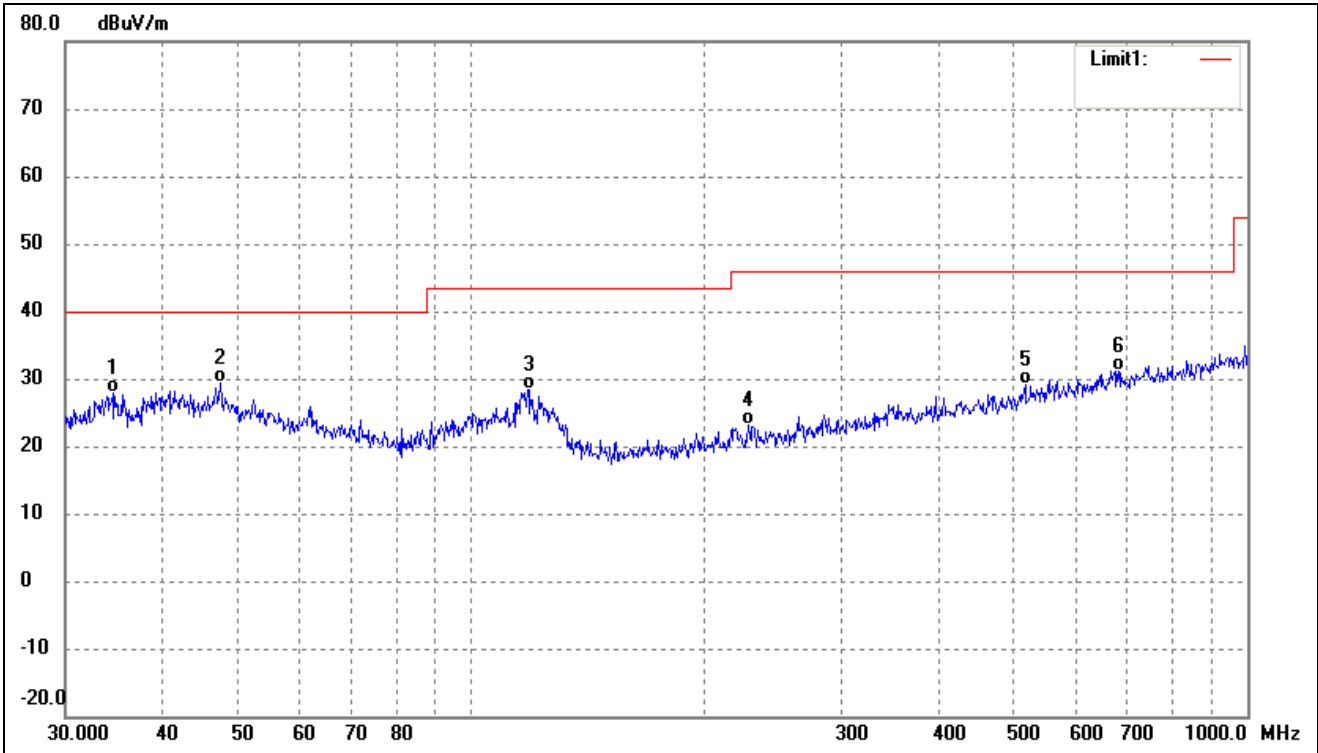
| | | | |
|---------------------|---------------------|-----------|----------|
| 802.11a(worst case) | | | |
| Test Channel | 5700MHz(worst case) | Polarity: | Vertical |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree () | Height (cm) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|------------|-------------|--------|
| 1 | 44.4308 | 40.24 | -6.94 | 33.30 | 40.00 | -6.70 | - | - | QP |
| 2 | 62.6507 | 36.70 | -9.33 | 27.37 | 40.00 | -12.63 | - | - | QP |
| 3 | 111.3468 | 37.55 | -8.08 | 29.47 | 43.50 | -14.03 | - | - | QP |
| 4 | 210.0482 | 38.62 | -8.58 | 30.04 | 43.50 | -13.46 | - | - | QP |
| 5 | 499.4247 | 30.57 | -1.66 | 28.91 | 46.00 | -17.09 | - | - | QP |
| 6 | 796.1830 | 28.99 | 2.68 | 31.67 | 46.00 | -14.33 | - | - | QP |

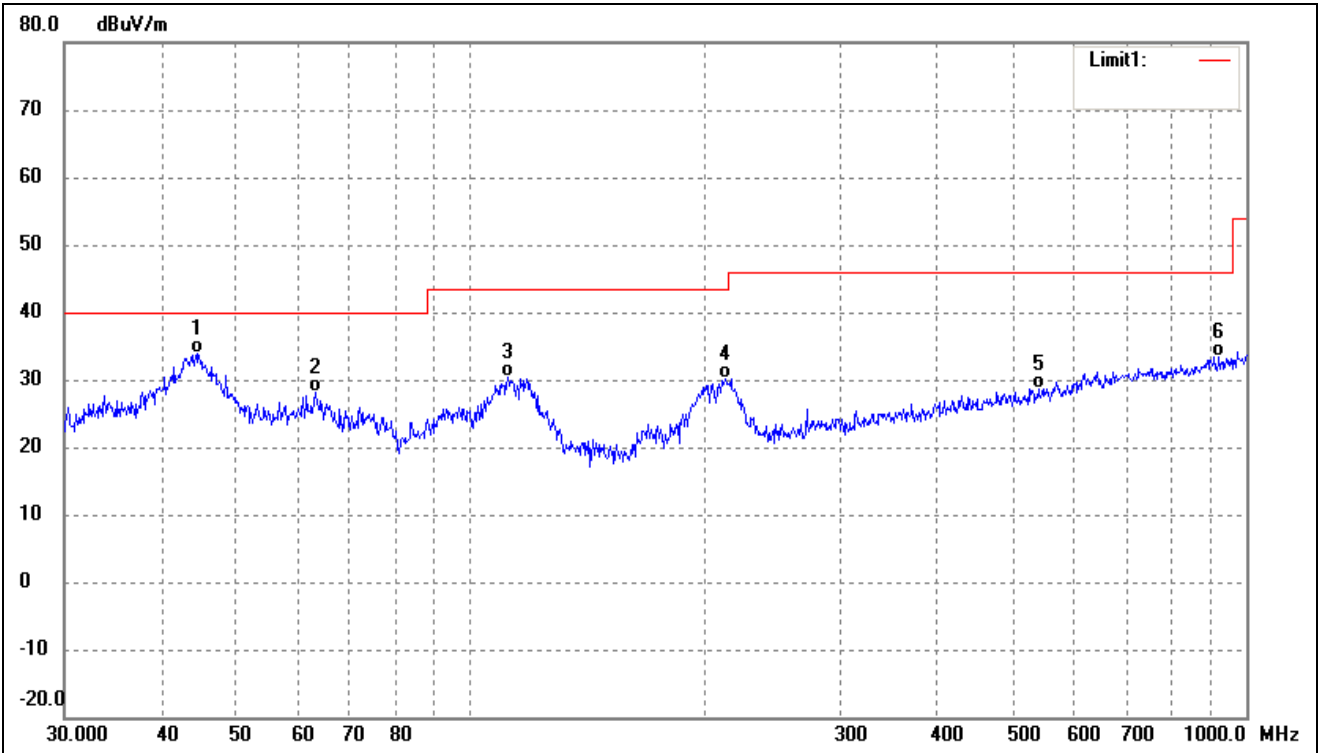
➤ 5725-5850MHz

| | | | |
|---------------------|---------------------|-----------|------------|
| 802.11a(worst case) | | | |
| Test Channel | 5745MHz(worst case) | Polarity: | Horizontal |



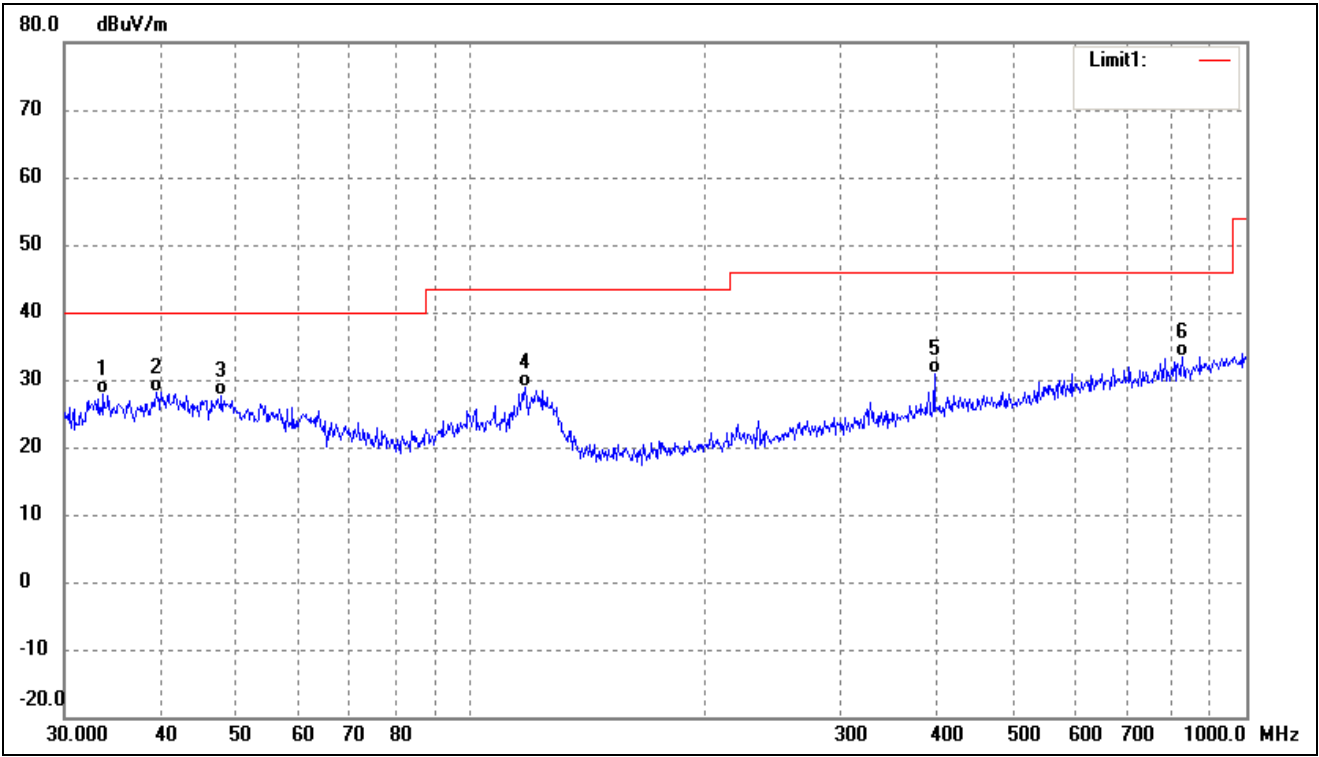
| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree () | Height (cm) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|------------|-------------|--------|
| 1 | 34.5173 | 36.04 | -8.07 | 27.97 | 40.00 | -12.03 | - | - | QP |
| 2 | 47.4918 | 36.54 | -7.04 | 29.50 | 40.00 | -10.50 | - | - | QP |
| 3 | 118.6014 | 36.98 | -8.63 | 28.35 | 43.50 | -15.15 | - | - | QP |
| 4 | 227.6906 | 31.14 | -8.07 | 23.07 | 46.00 | -22.93 | - | - | QP |
| 5 | 517.2480 | 30.40 | -1.35 | 29.05 | 46.00 | -16.95 | - | - | QP |
| 6 | 682.3485 | 29.78 | 1.43 | 31.21 | 46.00 | -14.79 | - | - | QP |

| | | | |
|---------------------|---------------------|-----------|----------|
| 802.11a(worst case) | | | |
| Test Channel | 5745MHz(worst case) | Polarity: | Vertical |



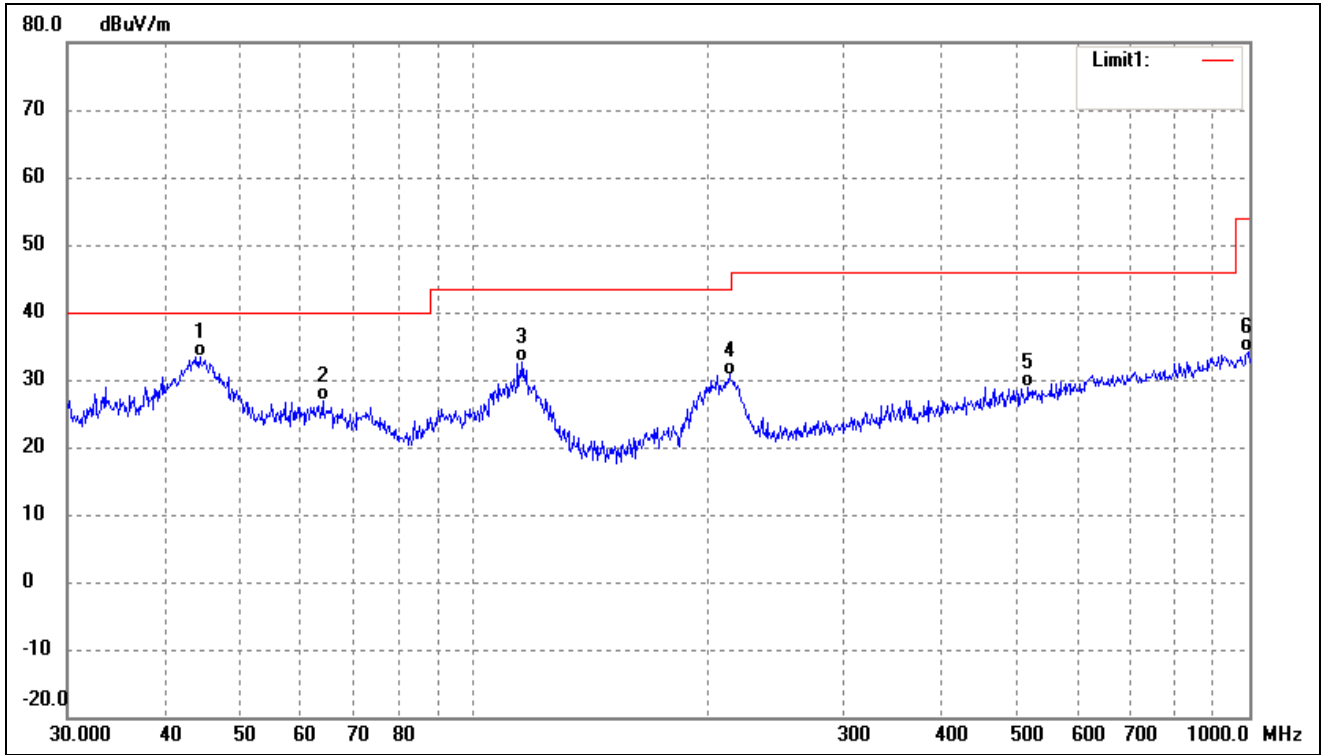
| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree () | Height (cm) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|------------|-------------|--------|
| 1 | 44.5868 | 40.81 | -6.95 | 33.86 | 40.00 | -6.14 | - | - | QP |
| 2 | 63.0916 | 37.44 | -9.41 | 28.03 | 40.00 | -11.97 | - | - | QP |
| 3 | 111.7380 | 38.53 | -8.11 | 30.42 | 43.50 | -13.08 | - | - | QP |
| 4 | 213.0151 | 38.57 | -8.49 | 30.08 | 43.50 | -13.42 | - | - | QP |
| 5 | 539.4775 | 29.58 | -0.95 | 28.63 | 46.00 | -17.37 | - | - | QP |
| 6 | 922.5157 | 28.93 | 4.44 | 33.37 | 46.00 | -12.63 | - | - | QP |

| | | | |
|---------------------|---------------------|-----------|------------|
| 802.11a(worst case) | | | |
| Test Channel | 5825MHz(worst case) | Polarity: | Horizontal |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree () | Height (cm) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|------------|-------------|--------|
| 1 | 33.6803 | 36.13 | -8.26 | 27.87 | 40.00 | -12.13 | - | - | QP |
| 2 | 39.4372 | 35.08 | -6.94 | 28.14 | 40.00 | -11.86 | - | - | QP |
| 3 | 47.8260 | 34.60 | -7.05 | 27.55 | 40.00 | -12.45 | - | - | QP |
| 4 | 117.7725 | 37.38 | -8.56 | 28.82 | 43.50 | -14.68 | - | - | QP |
| 5 | 396.2415 | 34.55 | -3.65 | 30.90 | 46.00 | -15.10 | - | - | QP |
| 6 | 827.4934 | 30.14 | 3.13 | 33.27 | 46.00 | -12.73 | - | - | QP |

| | | | |
|---------------------|---------------------|-----------|----------|
| 802.11a(worst case) | | | |
| Test Channel | 5825MHz(worst case) | Polarity: | Vertical |

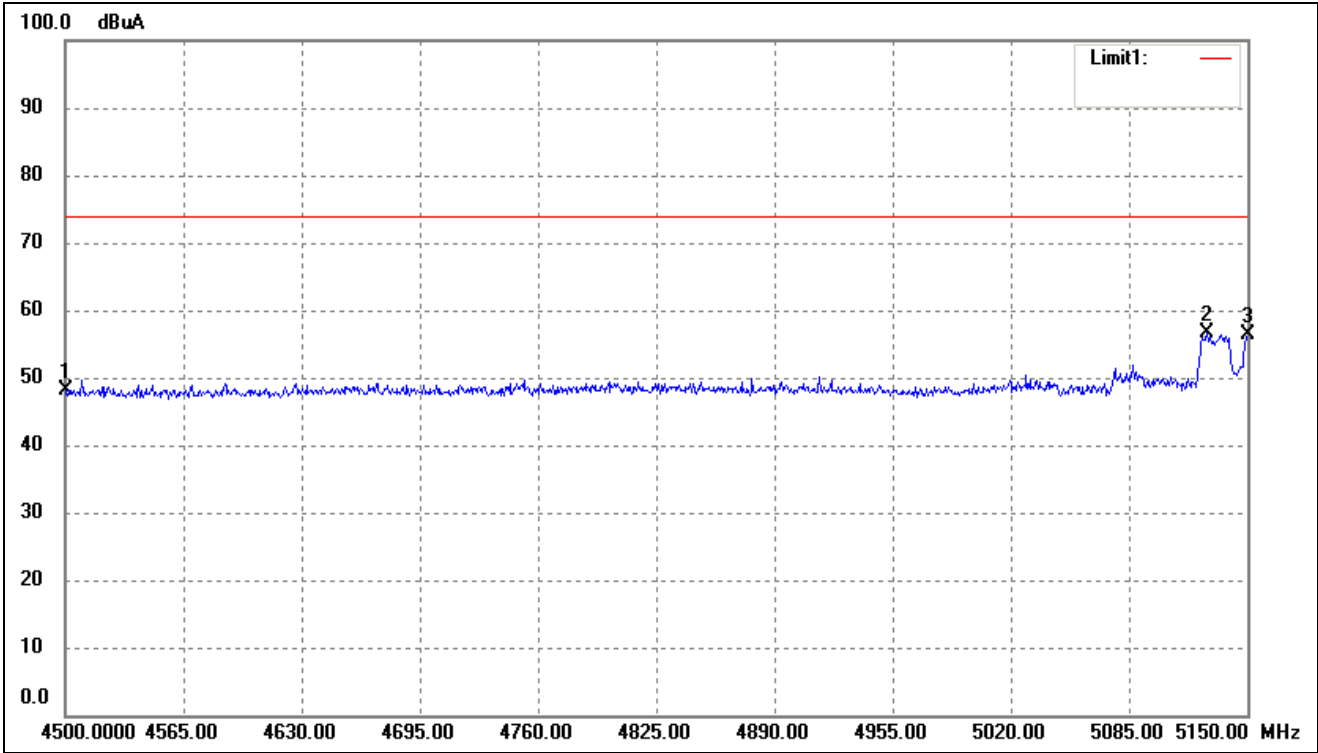


| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree () | Height (cm) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|------------|-------------|--------|
| 1 | 44.4308 | 40.31 | -6.94 | 33.37 | 40.00 | -6.63 | - | - | QP |
| 2 | 63.9828 | 36.50 | -9.59 | 26.91 | 40.00 | -13.09 | - | - | QP |
| 3 | 115.7256 | 40.98 | -8.41 | 32.57 | 43.50 | -10.93 | - | - | QP |
| 4 | 213.7634 | 39.22 | -8.47 | 30.75 | 43.50 | -12.75 | - | - | QP |
| 5 | 519.0649 | 30.11 | -1.32 | 28.79 | 46.00 | -17.21 | - | - | QP |
| 6 | 996.4996 | 29.07 | 5.06 | 34.13 | 54.00 | -19.87 | - | - | QP |

Remark: '-' Means the test Degree and Height are not recorded by the test software and only show the worst case in the test report.

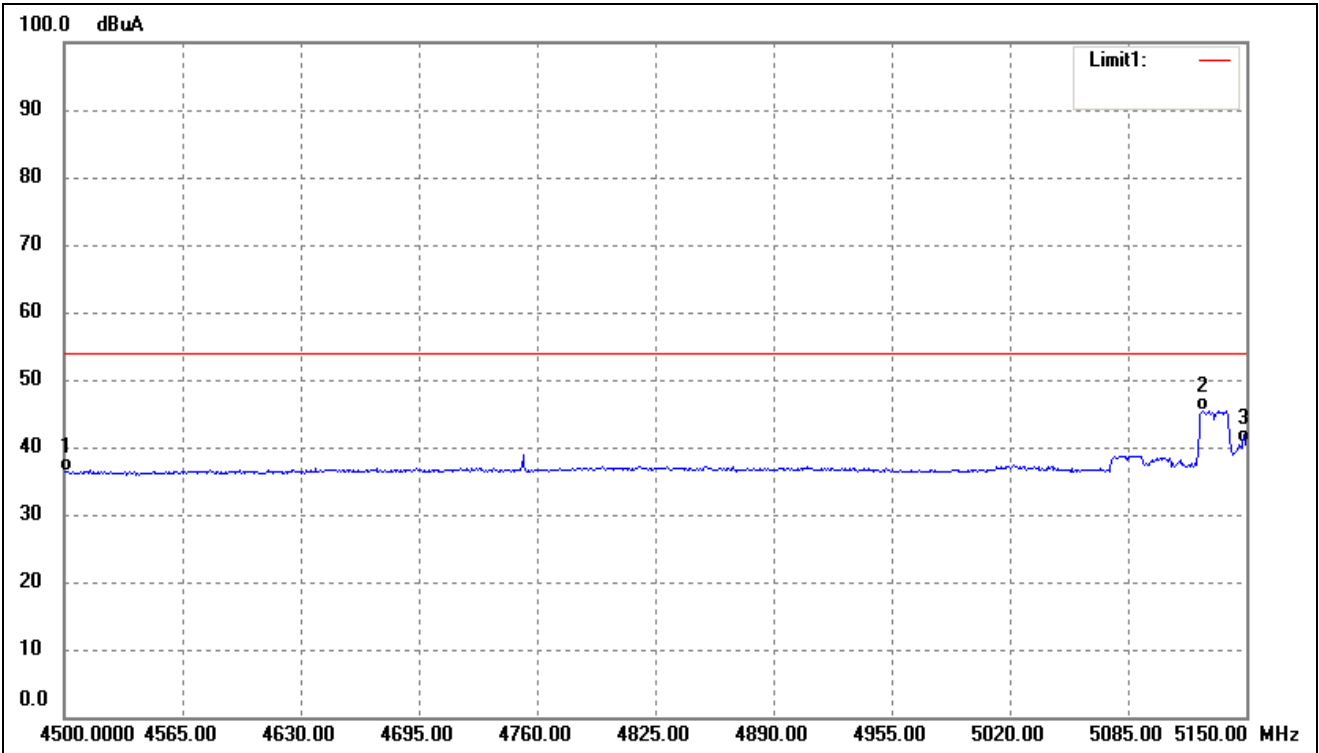
➤ Spurious Emission above 1GHz

| | | | |
|---|------------------|-----------|----------------------|
| 802.11a- Restricted Bandedge (worst case) | | | |
| Test Channel | band 4.5-5.15GHz | Polarity: | Vertical(worst case) |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree () | Height (cm) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|------------|-------------|--------|
| 1 | 4500.000 | 52.89 | -4.71 | 48.18 | 74.00 | -25.82 | - | - | peak |
| 2 | 5127.900 | 60.85 | -4.32 | 56.53 | 74.00 | -17.47 | - | - | peak |
| 3 | 5150.000 | 60.79 | -4.32 | 56.47 | 74.00 | -17.53 | - | - | peak |

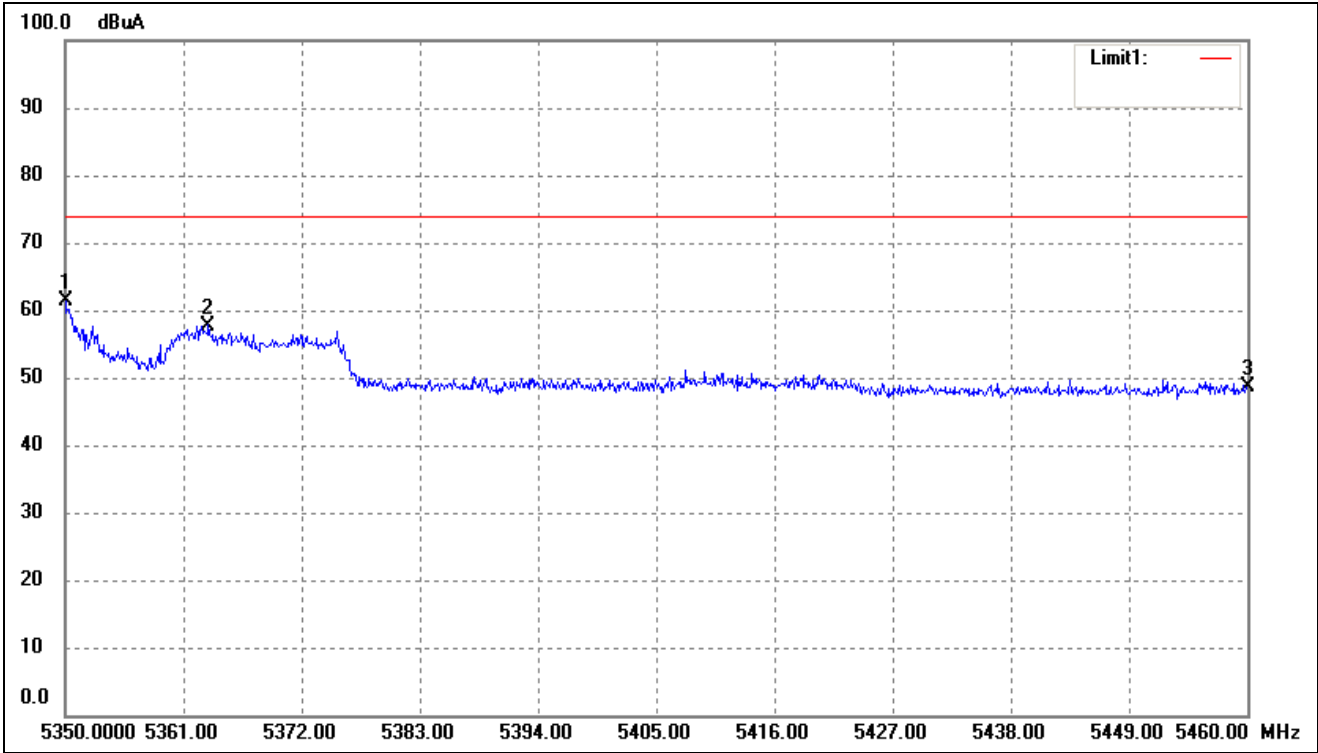
| | | | |
|---|------------------|-----------|----------------------|
| 802.11a- Restricted Bandedge (worst case) | | | |
| Test Channel | band 4.5-5.15GHz | Polarity: | Vertical(worst case) |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree () | Height (cm) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|------------|-------------|--------|
| 1 | 4500.000 | 41.16 | -4.71 | 36.45 | 54.00 | -17.55 | - | - | AVG |
| 2 | 5125.950 | 49.70 | -4.33 | 45.37 | 54.00 | -8.63 | - | - | AVG |
| 3 | 5150.000 | 44.98 | -4.32 | 40.66 | 54.00 | -13.34 | - | - | AVG |

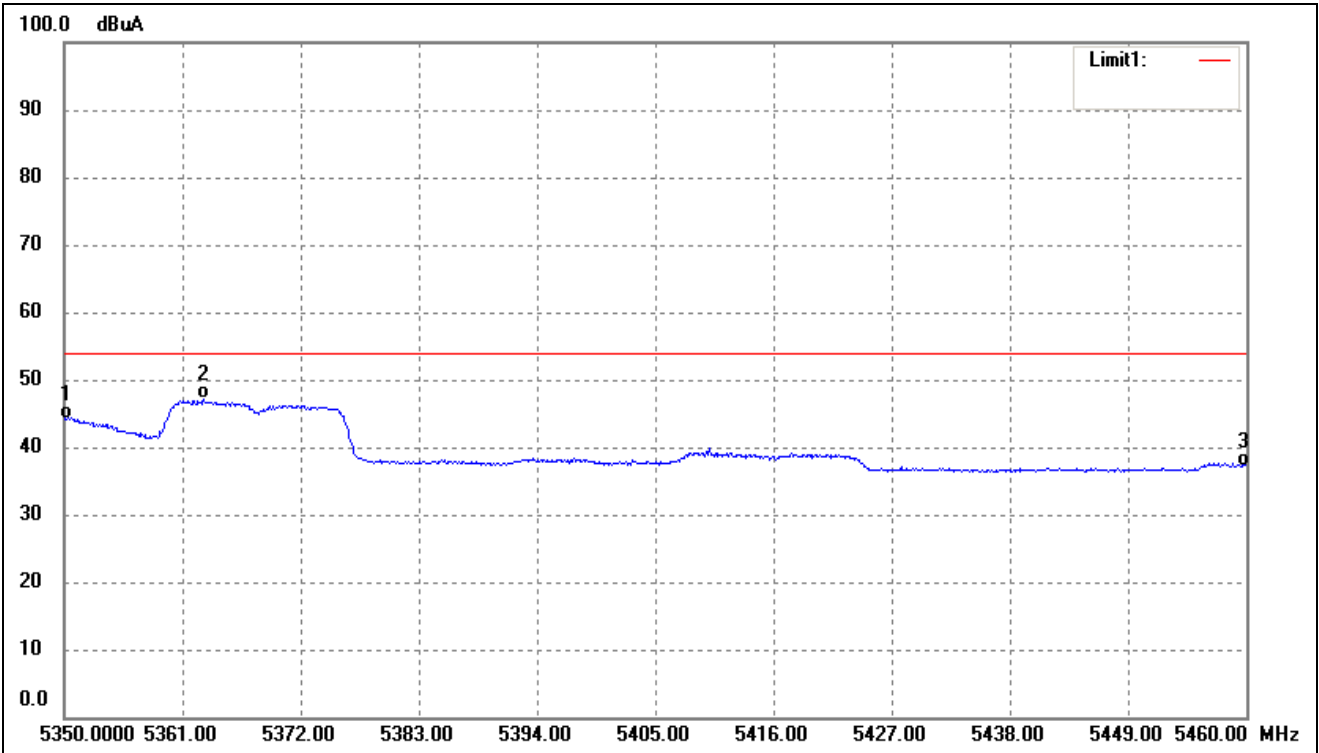
➤ 5250-5350MHz

| | | | |
|---|-------------------|-----------|----------------------|
| 802.11a- Restricted Bandedge (worst case) | | | |
| Test Channel | band 5.35-5.46GHz | Polarity: | Vertical(worst case) |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree () | Height (cm) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|------------|-------------|--------|
| 1 | 5350.000 | 65.52 | -4.21 | 61.31 | 74.00 | -12.69 | - | - | peak |
| 2 | 5363.310 | 61.96 | -4.21 | 57.75 | 74.00 | -16.25 | - | - | peak |
| 3 | 5460.000 | 52.68 | -4.16 | 48.52 | 74.00 | -25.48 | - | - | peak |

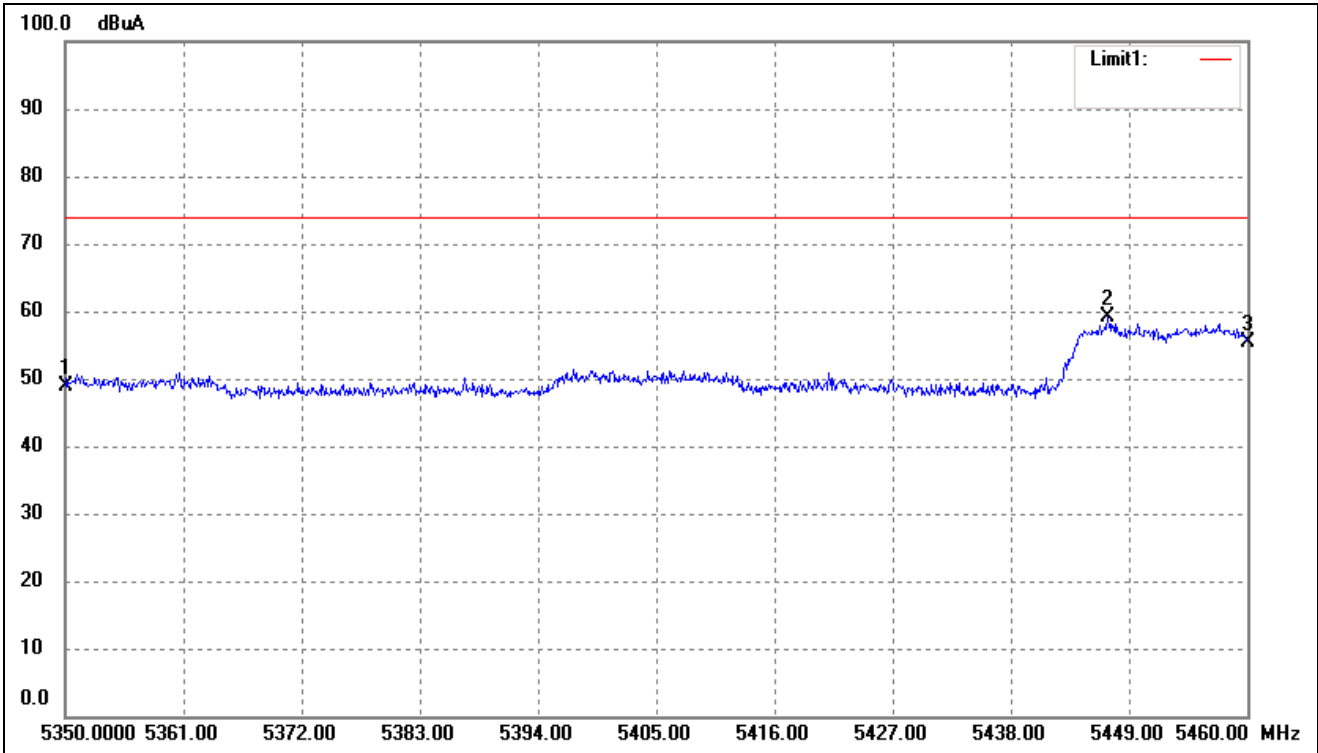
| | | | |
|---|-------------------|-----------|----------------------|
| 802.11a- Restricted Bandedge (worst case) | | | |
| Test Channel | band 5.35-5.46GHz | Polarity: | Vertical(worst case) |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree () | Height (cm) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|------------|-------------|--------|
| 1 | 5350.000 | 48.36 | -4.21 | 44.15 | 54.00 | -9.85 | - | - | AVG |
| 2 | 5362.980 | 51.23 | -4.21 | 47.02 | 54.00 | -6.98 | - | - | AVG |
| 3 | 5460.000 | 41.38 | -4.16 | 37.22 | 54.00 | -16.78 | - | - | AVG |

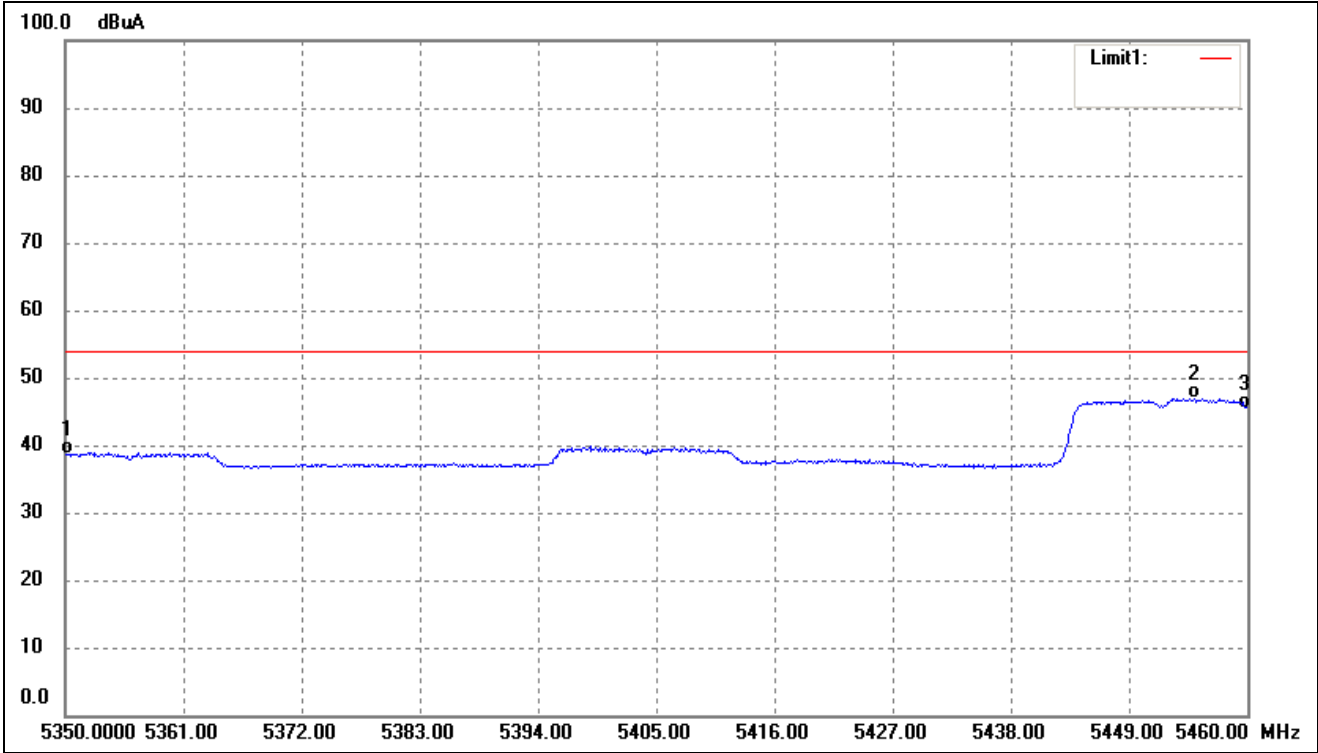
➤ 5470-5725MHz

| | | | |
|---|-------------------|-----------|----------------------|
| 802.11a- Restricted Bandedge (worst case) | | | |
| Test Channel | band 5.35-5.46GHz | Polarity: | Vertical(worst case) |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree () | Height (cm) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|------------|-------------|--------|
| 1 | 5350.000 | 53.10 | -4.21 | 48.89 | 74.00 | -25.11 | - | - | peak |
| 2 | 5447.020 | 63.19 | -4.17 | 59.02 | 74.00 | -14.98 | - | - | peak |
| 3 | 5460.000 | 59.62 | -4.16 | 55.46 | 74.00 | -18.54 | - | - | peak |

| | | | |
|---|-------------------|-----------|----------------------|
| 802.11a- Restricted Bandedge (worst case) | | | |
| Test Channel | band 5.35-5.46GHz | Polarity: | Vertical(worst case) |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree () | Height (cm) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|------------|-------------|--------|
| 1 | 5350.000 | 42.81 | -4.21 | 38.60 | 54.00 | -15.40 | - | - | AVG |
| 2 | 5455.050 | 51.07 | -4.16 | 46.91 | 54.00 | -7.09 | - | - | AVG |
| 3 | 5460.000 | 49.59 | -4.16 | 45.43 | 54.00 | -8.57 | - | - | AVG |

Note: The Restricted Bandedge was tested in Horizontal /Vertical and the worst case position data was reported.

Remark: ‘-’Means’ the test Degree and Height is not recorded by the test software and only show the worst case in the test report.

- For the frequency band 5.15-5.25GHz, 5.250-5.350GHz, 5.470-5.725GHz, 5.725-5.850GHz (802.11a)
- Harmonics And Spurious Emissions

| Frequency | Reading | Correct | Result | Limit | Margin | Polar | Detector |
|--------------------------|----------|---------|----------|----------|--------|-------|----------|
| (MHz) | (dBuV/m) | dB | (dBuV/m) | (dBuV/m) | (dB) | H/V | |
| Low Channel (5180MHz) | | | | | | | |
| 10360 | 60.02 | 7.11 | 67.13 | 74.00 | -6.87 | H | PK |
| 15540 | 38.33 | 8.22 | 46.55 | 54.00 | -7.45 | H | AV |
| 10360 | 59.83 | 7.11 | 66.94 | 74.00 | -7.06 | V | PK |
| 15540 | 39.62 | 8.22 | 47.84 | 54.00 | -6.16 | V | AV |
| Middle Channel (5200MHz) | | | | | | | |
| 10400 | 57.38 | 7.22 | 64.60 | 74 | -9.40 | H | PK |
| 15600 | 33.32 | 8.67 | 41.99 | 54 | -12.01 | H | AV |
| 10400 | 58.92 | 7.22 | 66.14 | 74 | -7.86 | V | PK |
| 15600 | 37.51 | 8.67 | 46.18 | 54 | -7.82 | V | AV |
| High Channel (5240MHz) | | | | | | | |
| 10480 | 56.42 | 7.69 | 64.11 | 74.00 | -9.89 | H | PK |
| 15720 | 36.59 | 8.93 | 45.52 | 54.00 | -8.48 | H | AV |
| 10480 | 59.70 | 7.69 | 67.39 | 74.00 | -6.61 | V | PK |
| 15720 | 39.40 | 8.93 | 48.33 | 54.00 | -5.67 | V | AV |

| Frequency | Reading | Correct | Result | Limit | Margin | Polar | Detector |
|--------------------------|----------|---------|----------|----------|--------|-------|----------|
| (MHz) | (dBuV/m) | dB | (dBuV/m) | (dBuV/m) | (dB) | H/V | |
| Low Channel (5260MHz) | | | | | | | |
| 10520 | 56.88 | 7.96 | 64.84 | 74.00 | -9.16 | H | PK |
| 15780 | 37.99 | 9.02 | 47.01 | 54.00 | -6.99 | H | AV |
| 10520 | 61.45 | 7.96 | 69.41 | 74.00 | -4.59 | V | PK |
| 15780 | 38.85 | 9.02 | 47.87 | 54.00 | -6.13 | V | AV |
| Middle Channel (5280MHz) | | | | | | | |
| 10560 | 57.85 | 8.02 | 65.87 | 74.00 | -8.13 | H | PK |
| 15840 | 37.51 | 9.42 | 46.93 | 54.00 | -7.07 | H | AV |
| 10560 | 60.00 | 8.02 | 68.02 | 74.00 | -5.98 | V | PK |
| 15840 | 36.17 | 9.42 | 45.59 | 54.00 | -8.41 | V | AV |
| High Channel (5320MHz) | | | | | | | |
| 10640 | 58.66 | 8.35 | 67.01 | 74.00 | -6.99 | H | PK |
| 15960 | 33.79 | 9.63 | 43.42 | 54.00 | -10.58 | H | AV |
| 10640 | 57.72 | 8.35 | 66.07 | 74.00 | -7.93 | V | PK |
| 15960 | 35.00 | 9.63 | 44.63 | 54.00 | -9.37 | V | AV |

| Frequency | Reading | Correct | Result | Limit | Margin | Polar | Detector |
|--------------------------|----------|---------|----------|----------|--------|-------|----------|
| (MHz) | (dBuV/m) | dB | (dBuV/m) | (dBuV/m) | (dB) | H/V | |
| Low Channel (5500MHz) | | | | | | | |
| 11000 | 55.81 | 8.82 | 64.63 | 74.00 | -9.37 | H | PK |
| 16500 | 37.59 | 9.88 | 47.47 | 54.00 | -6.53 | H | AV |
| 11000 | 56.44 | 8.82 | 65.26 | 74.00 | -8.74 | V | PK |
| 16500 | 32.94 | 9.88 | 42.82 | 54.00 | -11.18 | V | AV |
| Middle Channel (5600MHz) | | | | | | | |
| 11200 | 58.97 | 8.92 | 67.89 | 74.00 | -6.11 | H | PK |
| 16800 | 35.44 | 10.03 | 45.47 | 54.00 | -8.53 | H | AV |
| 11200 | 57.22 | 8.92 | 66.14 | 74.00 | -7.86 | V | PK |
| 16800 | 38.51 | 10.03 | 48.54 | 54.00 | -5.46 | V | AV |
| High Channel (5700MHz) | | | | | | | |
| 11400 | 53.58 | 9.36 | 62.94 | 74.00 | -11.06 | H | PK |
| 17100 | 35.97 | 10.25 | 46.22 | 54.00 | -7.78 | H | AV |
| 11400 | 58.42 | 9.36 | 67.78 | 74.00 | -6.22 | V | PK |
| 17100 | 35.22 | 10.25 | 45.47 | 54.00 | -8.53 | V | AV |

| Frequency | Reading | Correct | Result | Limit | Margin | Polar | Detector |
|--------------------------|----------|---------|----------|----------|--------|-------|----------|
| (MHz) | (dBuV/m) | dB | (dBuV/m) | (dBuV/m) | (dB) | H/V | |
| Low Channel (5745MHz) | | | | | | | |
| 11490 | 56.88 | 9.45 | 66.33 | 74.00 | -7.67 | H | PK |
| 17235 | 37.28 | 10.36 | 47.64 | 54.00 | -6.36 | H | AV |
| 11490 | 55.37 | 9.45 | 64.82 | 74.00 | -9.18 | V | PK |
| 17235 | 35.66 | 10.36 | 46.02 | 54.00 | -7.98 | V | AV |
| Middle Channel (5785MHz) | | | | | | | |
| 11570 | 58.95 | 9.62 | 68.57 | 74.00 | -5.43 | H | PK |
| 17355 | 36.66 | 10.67 | 47.33 | 54.00 | -6.67 | H | AV |
| 11570 | 55.83 | 9.62 | 65.45 | 74.00 | -8.55 | V | PK |
| 17355 | 35.64 | 10.67 | 46.31 | 54.00 | -7.69 | V | AV |
| High Channel (5825MHz) | | | | | | | |
| 11650 | 57.08 | 9.84 | 66.92 | 74.00 | -7.08 | H | PK |
| 17475 | 33.00 | 10.95 | 43.95 | 54.00 | -10.05 | H | AV |
| 11650 | 56.27 | 9.84 | 66.11 | 74.00 | -7.89 | V | PK |
| 17475 | 38.03 | 10.95 | 48.98 | 54.00 | -5.02 | V | AV |

➤ Out of Band edge for 5150-5250MHz

| Test CH. | Test Segment | Result | Limit |
|----------|--------------|---------|---------|
| | MHz | dBm/MHz | dBm/MHz |
| Lowest | Below 5150 | -34.50 | -27 |
| Highest | Above 5350 | -42.29 | -27 |

Note: the data just list the worst cases

➤ Out of Band edge for 5250-5350MHz

| Test CH. | Test Segment | Result | Limit |
|----------|--------------|---------|---------|
| | MHz | dBm/MHz | dBm/MHz |
| Lowest | Below 5150 | -33.81 | -27 |
| Highest | Above 5350 | -36.20 | -27 |

Note: the data just list the worst cases

➤ Out of Band edge for 5470-5725MHz

| Test CH. | Test Segment | Result | Limit |
|----------|--------------|---------|---------|
| | MHz | dBm/MHz | dBm/MHz |
| Lowest | Below 5470 | -37.56 | -27 |
| Highest | Above 5725 | -35.33 | -27 |

Note: the data just list the worst cases

➤ Out of Band edge for 5725-5850MHz

| Test CH. | Test Segment | Result | Limit |
|----------|--------------|---------|---------|
| | MHz | dBm/MHz | dBm/MHz |
| Lowest | Below 5715 | -36.62 | -27 |
| | 5715 to 5725 | -39.85 | -17 |
| Highest | 5850 to 5860 | -40.03 | -17 |
| | Above 5860 | -42.92 | -27 |

Note: the data just list the worst cases

- For the frequency band 5.15-5.25GHz, 5.250-5.350GHz, 5.470-5.725GHz, 5.725-5.850GHz (802.11n HT20)
- Harmonics And Spurious Emissions

| Frequency | Reading | Correct | Result | Limit | Margin | Polar | Detector |
|--------------------------|----------|---------|----------|----------|--------|-------|----------|
| (MHz) | (dBuV/m) | dB | (dBuV/m) | (dBuV/m) | (dB) | H/V | |
| Low Channel (5180MHz) | | | | | | | |
| 10360 | 58.44 | 7.11 | 65.55 | 74.00 | -8.45 | H | PK |
| 15540 | 39.47 | 8.22 | 47.69 | 54.00 | -6.31 | H | AV |
| 10360 | 61.62 | 7.11 | 68.73 | 74.00 | -5.27 | V | PK |
| 15540 | 40.31 | 8.22 | 48.53 | 54.00 | -5.47 | V | AV |
| Middle Channel (5200MHz) | | | | | | | |
| 10400 | 58.56 | 7.22 | 65.78 | 74.00 | -8.22 | H | PK |
| 15600 | 35.88 | 8.67 | 44.55 | 54.00 | -9.45 | H | AV |
| 10400 | 57.51 | 7.22 | 64.73 | 74.00 | -9.27 | V | PK |
| 15600 | 36.88 | 8.67 | 45.55 | 54.00 | -8.45 | V | AV |
| High Channel (5240MHz) | | | | | | | |
| 10480 | 55.82 | 7.69 | 63.51 | 74.00 | -10.49 | H | PK |
| 15720 | 39.34 | 8.93 | 48.27 | 54.00 | -5.73 | H | AV |
| 10480 | 59.84 | 7.69 | 67.53 | 74.00 | -6.47 | V | PK |
| 15720 | 37.16 | 8.93 | 46.09 | 54.00 | -7.91 | V | AV |

| Frequency | Reading | Correct | Result | Limit | Margin | Polar | Detector |
|--------------------------|----------|---------|----------|----------|--------|-------|----------|
| (MHz) | (dBuV/m) | dB | (dBuV/m) | (dBuV/m) | (dB) | H/V | |
| Low Channel (5260MHz) | | | | | | | |
| 10520 | 59.16 | 7.96 | 67.12 | 74.00 | -6.88 | H | PK |
| 15780 | 34.97 | 9.02 | 43.99 | 54.00 | -10.01 | H | AV |
| 10520 | 59.65 | 7.96 | 67.61 | 74.00 | -6.39 | V | PK |
| 15780 | 37.77 | 9.02 | 46.79 | 54.00 | -7.21 | V | AV |
| Middle Channel (5280MHz) | | | | | | | |
| 10560 | 54.72 | 8.02 | 62.74 | 74.00 | -11.26 | H | PK |
| 15840 | 39.96 | 9.42 | 49.38 | 54.00 | -4.62 | H | AV |
| 10560 | 57.73 | 8.02 | 65.75 | 74.00 | -8.25 | V | PK |
| 15840 | 36.67 | 9.42 | 46.09 | 54.00 | -7.91 | V | AV |
| High Channel (5320MHz) | | | | | | | |
| 10640 | 60.67 | 8.35 | 69.02 | 74.00 | -4.98 | H | PK |
| 15960 | 36.96 | 9.63 | 46.59 | 54.00 | -7.41 | H | AV |
| 10640 | 56.03 | 8.35 | 64.38 | 74.00 | -9.62 | V | PK |
| 15960 | 35.18 | 9.63 | 44.81 | 54.00 | -9.19 | V | AV |

| Frequency | Reading | Correct | Result | Limit | Margin | Polar | Detector |
|--------------------------|----------|---------|----------|----------|--------|-------|----------|
| (MHz) | (dBuV/m) | dB | (dBuV/m) | (dBuV/m) | (dB) | H/V | |
| Low Channel (5500MHz) | | | | | | | |
| 11000 | 54.52 | 8.82 | 63.34 | 74.00 | -10.66 | H | PK |
| 16500 | 37.64 | 9.88 | 47.52 | 54.00 | -6.48 | H | AV |
| 11000 | 56.71 | 8.82 | 65.53 | 74.00 | -8.47 | V | PK |
| 16500 | 33.67 | 9.88 | 43.55 | 54.00 | -10.45 | V | AV |
| Middle Channel (5600MHz) | | | | | | | |
| 11200 | 58.33 | 8.92 | 67.25 | 74.00 | -6.75 | H | PK |
| 16800 | 37.45 | 10.03 | 47.48 | 54.00 | -6.52 | H | AV |
| 11200 | 56.20 | 8.92 | 65.12 | 74.00 | -8.88 | V | PK |
| 16800 | 38.20 | 10.03 | 48.23 | 54.00 | -5.77 | V | AV |
| High Channel (5700MHz) | | | | | | | |
| 11400 | 55.71 | 9.36 | 65.07 | 74.00 | -8.93 | H | PK |
| 17100 | 36.79 | 10.25 | 47.04 | 54.00 | -6.96 | H | AV |
| 11400 | 57.80 | 9.36 | 67.16 | 74.00 | -6.84 | V | PK |
| 17100 | 33.68 | 10.25 | 43.93 | 54.00 | -10.07 | V | AV |

| Frequency | Reading | Correct | Result | Limit | Margin | Polar | Detector |
|--------------------------|----------|---------|----------|----------|--------|-------|----------|
| (MHz) | (dBuV/m) | dB | (dBuV/m) | (dBuV/m) | (dB) | H/V | |
| Low Channel (5745MHz) | | | | | | | |
| 11490 | 58.04 | 9.45 | 67.49 | 74.00 | -6.51 | H | PK |
| 17235 | 36.67 | 10.36 | 47.03 | 54.00 | -6.97 | H | AV |
| 11490 | 58.51 | 9.45 | 67.96 | 74.00 | -6.04 | V | PK |
| 17235 | 38.73 | 10.36 | 49.09 | 54.00 | -4.91 | V | AV |
| Middle Channel (5785MHz) | | | | | | | |
| 11570 | 59.43 | 9.62 | 69.05 | 74.00 | -4.95 | H | PK |
| 17355 | 35.80 | 10.67 | 46.47 | 54.00 | -7.53 | H | AV |
| 11570 | 55.90 | 9.62 | 65.52 | 74.00 | -8.48 | V | PK |
| 17355 | 36.32 | 10.67 | 46.99 | 54.00 | -7.01 | V | AV |
| High Channel (5825MHz) | | | | | | | |
| 11650 | 57.57 | 9.84 | 67.41 | 74.00 | -6.59 | H | PK |
| 17475 | 33.90 | 10.95 | 44.85 | 54.00 | -9.15 | H | AV |
| 11650 | 55.62 | 9.84 | 65.46 | 74.00 | -8.54 | V | PK |
| 17475 | 37.88 | 10.95 | 48.83 | 54.00 | -5.17 | V | AV |

➤ Out of Band edge 5150-5250MHz

| Test CH. | Test Segment | Result | Limit |
|----------|--------------|---------|---------|
| | MHz | dBm/MHz | dBm/MHz |
| Lowest | Below 5150 | -30.39 | -27 |
| Highest | Above 5350 | -38.34 | -27 |

Note: the data just list the worst cases

➤ Out of Band edge for 5250-5350MHz

| Test CH. | Test Segment | Result | Limit |
|----------|--------------|---------|---------|
| | MHz | dBm/MHz | dBm/MHz |
| Lowest | Below 5150 | -39.06 | -27 |
| Highest | Above 5350 | -35.27 | -27 |

Note: the data just list the worst cases

➤ Out of Band edge for 5470-5725MHz

| Test CH. | Test Segment | Result | Limit |
|----------|--------------|---------|---------|
| | MHz | dBm/MHz | dBm/MHz |
| Lowest | Below 5470 | -38.36 | -27 |
| Highest | Above 5725 | -37.19 | -27 |

Note: the data just list the worst cases

➤ Out of Band edge for 5725-5850MHz

| Test CH. | Test Segment | Result | Limit |
|----------|--------------|---------|---------|
| | MHz | dBm/MHz | dBm/MHz |
| Lowest | Below 5715 | -46.83 | -27 |
| | 5715 to 5725 | -33.89 | -17 |
| Highest | 5850 to 5860 | -33.98 | -17 |
| | Above 5860 | -41.56 | -27 |

Note: the data just list the worst cases

Note: this EUT was tested in the low, high channel and the worst case position data was reported.

- For the frequency band 5.15-5.25GHz, 5.250-5.350GHz, 5.470-5.725GHz, 5.725-5.850GHz (802.11n HT40)
- Harmonics And Spurious Emissions

| Frequency | Reading | Correct | Result | Limit | Margin | Polar | Detector |
|------------------------|----------|---------|----------|----------|--------|-------|----------|
| (MHz) | (dBuV/m) | dB | (dBuV/m) | (dBuV/m) | (dB) | H/V | |
| Low Channel (5190MHz) | | | | | | | |
| 10380 | 56.39 | 7.25 | 63.64 | 74.00 | -10.36 | H | PK |
| 15570 | 37.35 | 8.33 | 45.68 | 54.00 | -8.32 | H | AV |
| 10380 | 61.58 | 7.25 | 68.83 | 74.00 | -5.17 | V | PK |
| 15570 | 38.05 | 8.33 | 46.38 | 54.00 | -7.62 | V | AV |
| High Channel (5230MHz) | | | | | | | |
| 10460 | 57.20 | 7.54 | 64.74 | 74.00 | -9.26 | H | PK |
| 15690 | 40.89 | 8.86 | 49.75 | 54.00 | -4.25 | H | AV |
| 10460 | 58.81 | 7.54 | 66.35 | 74.00 | -7.65 | V | PK |
| 15690 | 38.79 | 8.86 | 47.65 | 54.00 | -6.35 | V | AV |

| Frequency | Reading | Correct | Result | Limit | Margin | Polar | Detector |
|------------------------|----------|---------|----------|----------|--------|-------|----------|
| (MHz) | (dBuV/m) | dB | (dBuV/m) | (dBuV/m) | (dB) | H/V | |
| Low Channel (5270MHz) | | | | | | | |
| 10540 | 55.12 | 8.12 | 63.24 | 74.00 | -10.76 | H | PK |
| 15810 | 37.94 | 9.24 | 47.18 | 54.00 | -6.82 | H | AV |
| 10540 | 58.86 | 8.12 | 66.98 | 74.00 | -7.02 | V | PK |
| 15810 | 38.19 | 9.24 | 47.43 | 54.00 | -6.57 | V | AV |
| High Channel (5310MHz) | | | | | | | |
| 10620 | 60.32 | 8.30 | 68.62 | 74.00 | -5.38 | H | PK |
| 15930 | 35.32 | 9.45 | 44.77 | 54.00 | -9.23 | H | AV |
| 10620 | 55.83 | 8.30 | 64.13 | 74.00 | -9.87 | V | PK |
| 15930 | 34.41 | 9.45 | 43.86 | 54.00 | -10.14 | V | AV |

| Frequency | Reading | Correct | Result | Limit | Margin | Polar | Detector |
|--------------------------|----------|---------|----------|----------|--------|-------|----------|
| (MHz) | (dBuV/m) | dB | (dBuV/m) | (dBuV/m) | (dB) | H/V | |
| Low Channel (5510MHz) | | | | | | | |
| 11020 | 56.03 | 8.95 | 64.98 | 74.00 | -9.02 | H | PK |
| 16530 | 35.08 | 9.99 | 45.07 | 54.00 | -8.93 | H | AV |
| 11020 | 58.44 | 8.95 | 67.39 | 74.00 | -6.61 | V | PK |
| 16530 | 37.14 | 9.99 | 47.13 | 54.00 | -6.87 | V | AV |
| Middle Channel (5590MHz) | | | | | | | |
| 11180 | 57.48 | 9.12 | 66.60 | 74.00 | -7.40 | H | PK |
| 16770 | 36.41 | 10.12 | 46.53 | 54.00 | -7.47 | H | AV |
| 11180 | 57.37 | 9.12 | 66.49 | 74.00 | -7.51 | V | PK |
| 16770 | 37.13 | 10.12 | 47.25 | 54.00 | -6.75 | V | AV |
| High Channel (5670MHz) | | | | | | | |
| 11340 | 54.79 | 9.39 | 64.18 | 74.00 | -9.82 | H | PK |
| 17010 | 36.52 | 10.22 | 46.74 | 54.00 | -7.26 | H | AV |
| 11340 | 54.07 | 9.39 | 63.46 | 74.00 | -10.54 | V | PK |
| 17010 | 37.95 | 10.22 | 48.17 | 54.00 | -5.83 | V | AV |

| Frequency | Reading | Correct | Result | Limit | Margin | Polar | Detector |
|------------------------|----------|---------|----------|----------|--------|-------|----------|
| (MHz) | (dBuV/m) | dB | (dBuV/m) | (dBuV/m) | (dB) | H/V | |
| Low Channel (5755MHz) | | | | | | | |
| 11510 | 57.08 | 9.65 | 66.73 | 74.00 | -7.27 | H | PK |
| 17265 | 37.10 | 10.87 | 47.97 | 54.00 | -6.03 | H | AV |
| 11510 | 58.72 | 9.65 | 68.37 | 74.00 | -5.63 | V | PK |
| 17265 | 36.67 | 10.87 | 47.54 | 54.00 | -6.46 | V | AV |
| High Channel (5795MHz) | | | | | | | |
| 11590 | 55.25 | 9.81 | 65.06 | 74.00 | -8.94 | H | PK |
| 17385 | 33.60 | 10.89 | 44.49 | 54.00 | -9.51 | H | AV |
| 11590 | 58.12 | 9.81 | 67.93 | 74.00 | -6.07 | V | PK |
| 17385 | 38.14 | 10.89 | 49.03 | 54.00 | -4.97 | V | AV |

➤ Out of Band edge for 5150-5250MHz

| Test CH. | Test Segment | Result | Limit |
|----------|--------------|---------|---------|
| | MHz | dBm/MHz | dBm/MHz |
| Lowest | Below 5150 | -38.81 | -27 |
| Highest | Above 5350 | -42.87 | -27 |

Note: the data just list the worst cases

➤ Out of Band edge for 5250-5350MHz

| Test CH. | Test Segment | Result | Limit |
|----------|--------------|---------|---------|
| | MHz | dBm/MHz | dBm/MHz |
| Lowest | Below 5150 | -38.50 | -27 |
| Highest | Above 5350 | -39.53 | -27 |

Note: the data just list the worst cases

➤ Out of Band edge for 5470-5725MHz

| Test CH. | Test Segment | Result | Limit |
|----------|--------------|---------|---------|
| | MHz | dBm/MHz | dBm/MHz |
| Lowest | Below 5470 | -37.55 | -27 |
| Highest | Above 5725 | -41.70 | -27 |

Note: the data just list the worst cases

➤ Out of Band edge for 5725-5850MHz

| Test CH. | Test Segment | Result | Limit |
|----------|--------------|---------|---------|
| | MHz | dBm/MHz | dBm/MHz |
| Lowest | Below 5715 | -40.18 | -27 |
| | 5715 to 5725 | -39.98 | -17 |
| Highest | 5850 to 5860 | -44.42 | -17 |
| | Above 5860 | -40.78 | -27 |

Note: the data just list the worst cases

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

9. Frequency Stability

9.1 Standard Applicable

According to §15.407(g), manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

9.2 Test Procedure

According to §2.1055, the following test procedure was performed.

The Frequency Stability is measured directly with a Frequency Domain Analyzer. Frequency Deviation in ppm is calculated from the measured peak to peak value.

The Carrier Frequency Stability over Power Supply Voltage and over Temperature is measured with a Frequency Domain Analyzer in histogram mode.

9.3 Summary of Test Results/Plots

Please refer to Appendix D

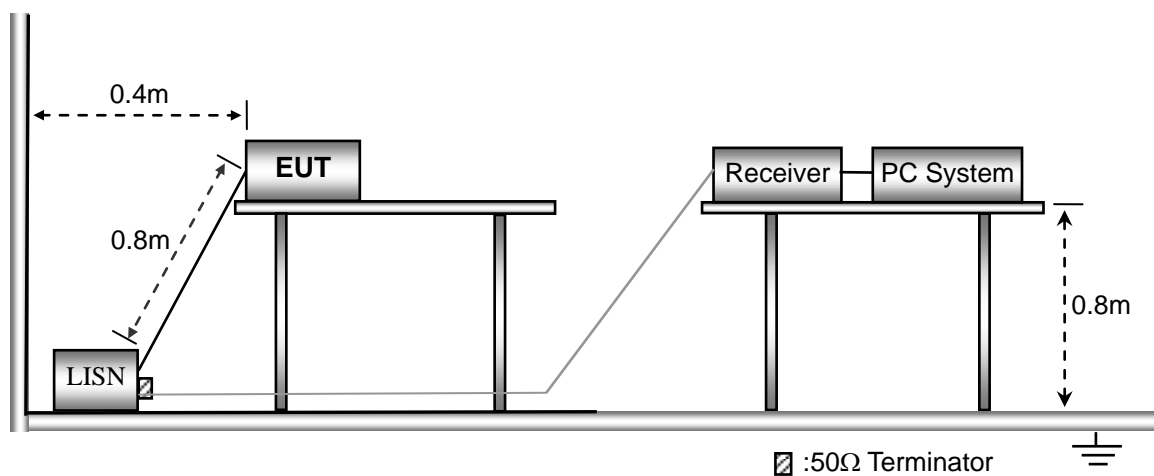
10. Conducted Emissions

10.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.

10.2 Basic Test Setup Block Diagram



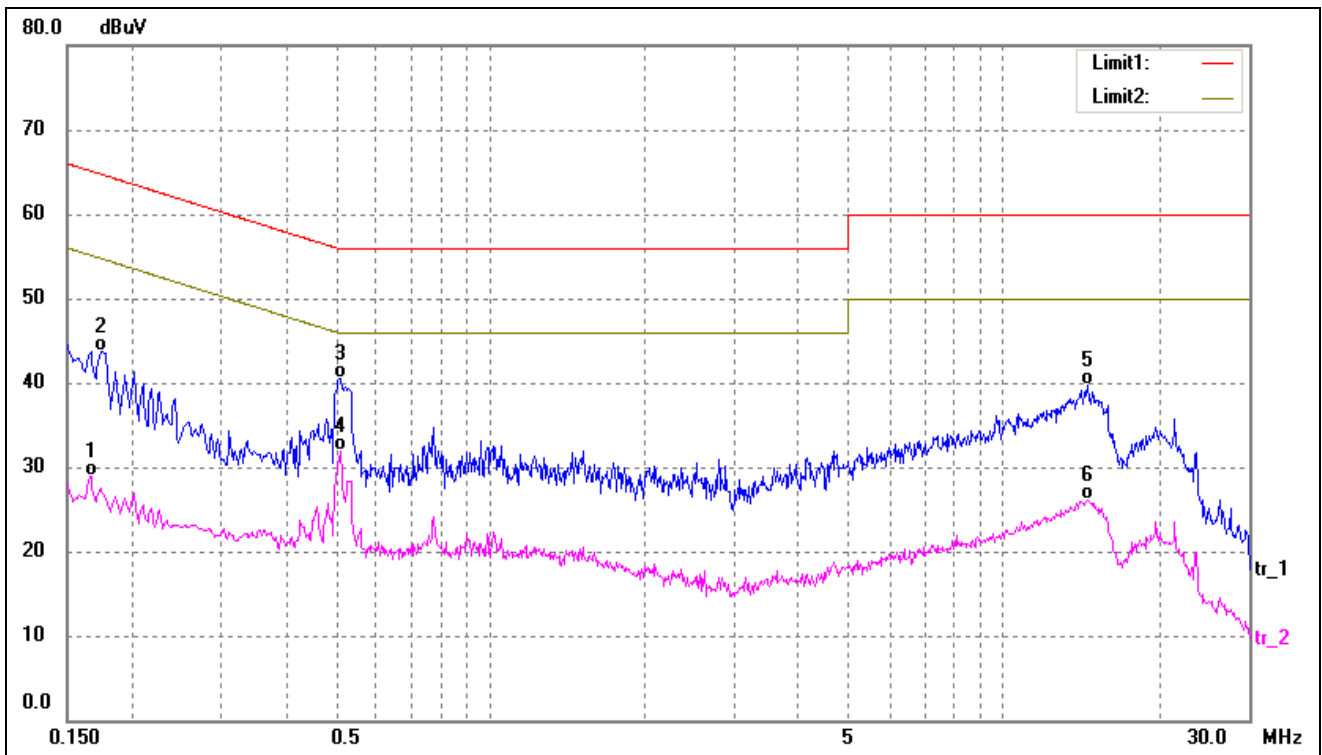
10.3 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

| | |
|------------------------------------|---------|
| Start Frequency | 150 kHz |
| Stop Frequency | 30 MHz |
| Sweep Speed | Auto |
| IF Bandwidth..... | 10 kHz |
| Quasi-Peak Adapter Bandwidth | 9 kHz |
| Quasi-Peak Adapter Mode | Normal |

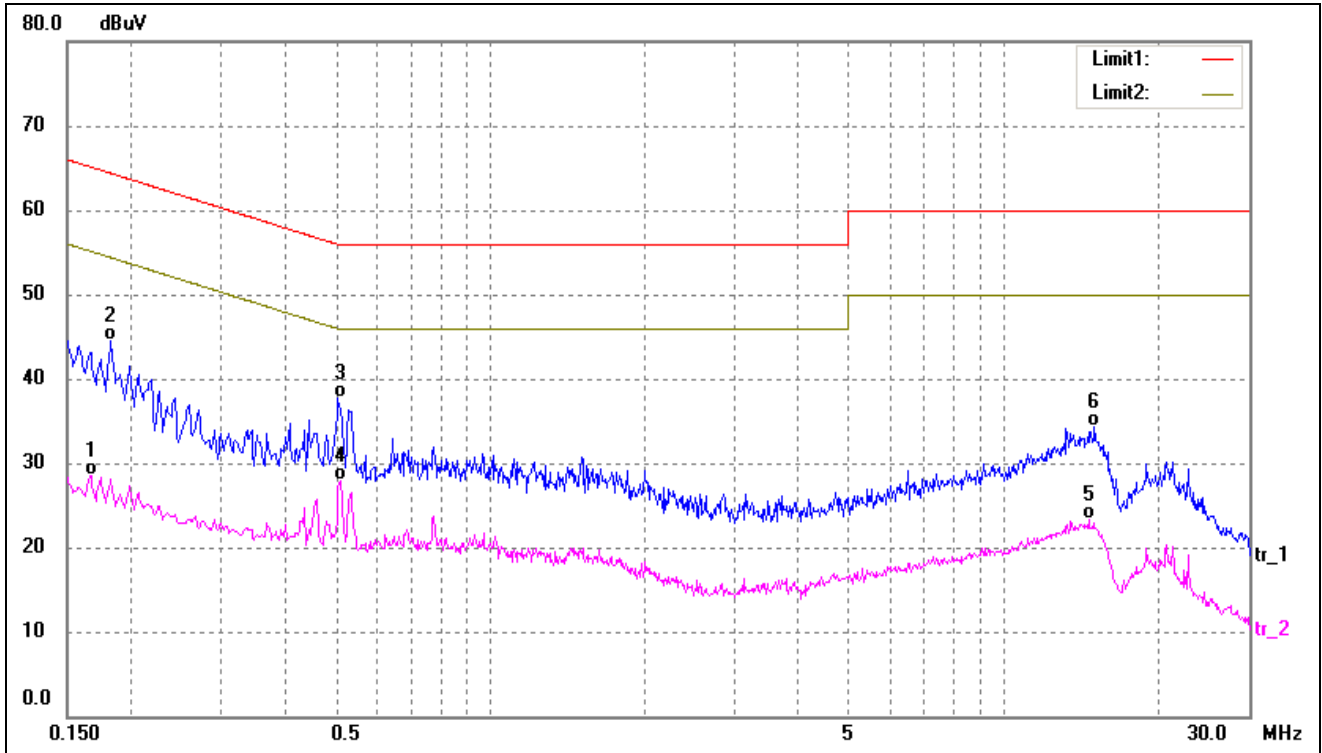
10.4 Summary of Test Results/Plots

| | | | | |
|-----------|---------------|-------------|-----------|---------|
| Test Mode | Communication | AC120V 60Hz | Polarity: | Neutral |
|-----------|---------------|-------------|-----------|---------|



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Detector |
|-----|-----------------|----------------|--------------|---------------|--------------|-------------|----------|
| 1 | 0.1660 | 18.64 | 10.26 | 28.90 | 55.16 | -26.26 | AVG |
| 2 | 0.1740 | 33.48 | 10.25 | 43.73 | 64.77 | -21.04 | QP |
| 3 | 0.5100 | 30.30 | 10.22 | 40.52 | 56.00 | -15.48 | QP |
| 4* | 0.5100 | 21.71 | 10.22 | 31.93 | 46.00 | -14.07 | AVG |
| 5 | 14.5940 | 29.17 | 10.56 | 39.73 | 60.00 | -20.27 | QP |
| 6 | 14.5940 | 15.49 | 10.56 | 26.05 | 50.00 | -23.95 | AVG |

| | | | | |
|-----------|---------------|-------------|-----------|------|
| Test Mode | Communication | AC120V 60Hz | Polarity: | Line |
|-----------|---------------|-------------|-----------|------|



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Detector |
|-----|-----------------|----------------|--------------|---------------|--------------|-------------|----------|
| 1 | 0.1660 | 18.26 | 10.26 | 28.52 | 55.16 | -26.64 | AVG |
| 2 | 0.1820 | 34.33 | 10.26 | 44.59 | 64.39 | -19.80 | QP |
| 3 | 0.5060 | 27.55 | 10.22 | 37.77 | 56.00 | -18.23 | QP |
| 4* | 0.5100 | 17.64 | 10.22 | 27.86 | 46.00 | -18.14 | AVG |
| 5 | 14.6460 | 12.70 | 10.56 | 23.26 | 50.00 | -26.74 | AVG |
| 6 | 14.9860 | 23.65 | 10.58 | 34.23 | 60.00 | -25.77 | QP |

APPENDIX SUMMARY

| | | | |
|-------------------|-----------------|---------------|----------|
| Project No. | WTX21X05051655W | Test Engineer | Moon |
| Start date | 2021/6/1 | Finish date | 2021/6/2 |
| Temperature | 25°C | Humidity | 49% |
| RF specifications | U-NII | | |

| APPENDIX | Description of Test Item | Result |
|-----------------|---|---------------|
| A | Power Spectral Density | Compliant |
| B | Emission Bandwidth and Occupied Bandwidth | Compliant |
| C | Maximum Conducted Output Power | Compliant |
| D | Frequency Stability | Compliant |

APPENDIX A

| Power Spectral Density | | | |
|-------------------------------|--------------|-----------------------------------|--------------------|
| U-NII-1:5150-5250MHz | | | |
| Operating mode | Test Channel | Power Spectral Density dBm/MHz | Limit (dBm/MHz) |
| 802.11a | 5180 | -0.772 | 11 |
| | 5200 | -1.164 | 11 |
| | 5240 | -1.251 | 11 |
| 802.11n-HT20 | 5180 | -0.264 | 11 |
| | 5200 | -0.405 | 11 |
| | 5240 | -0.389 | 11 |
| 802.11n-HT40 | 5190 | -3.909 | 11 |
| | 5230 | -4.181 | 11 |

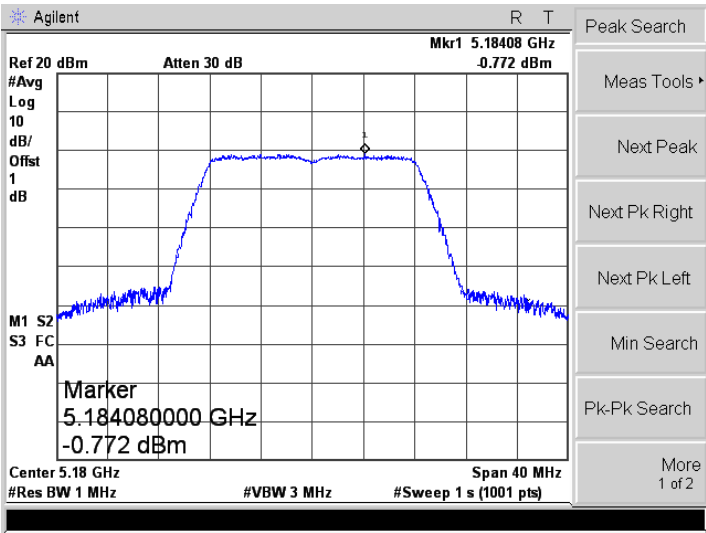
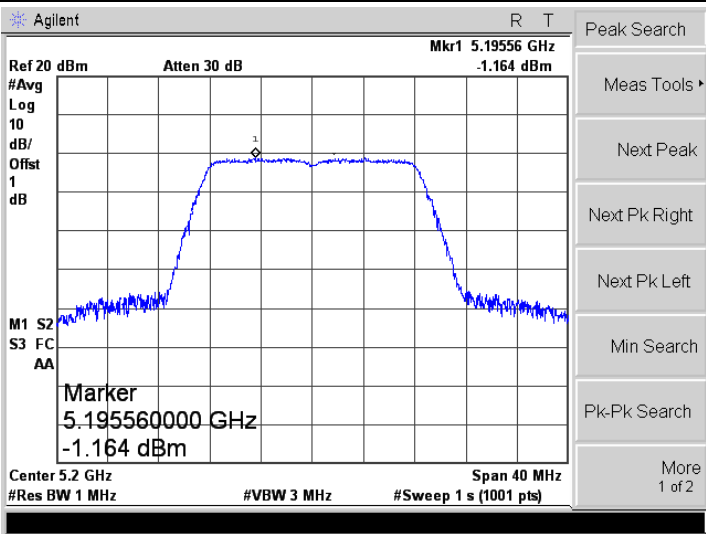
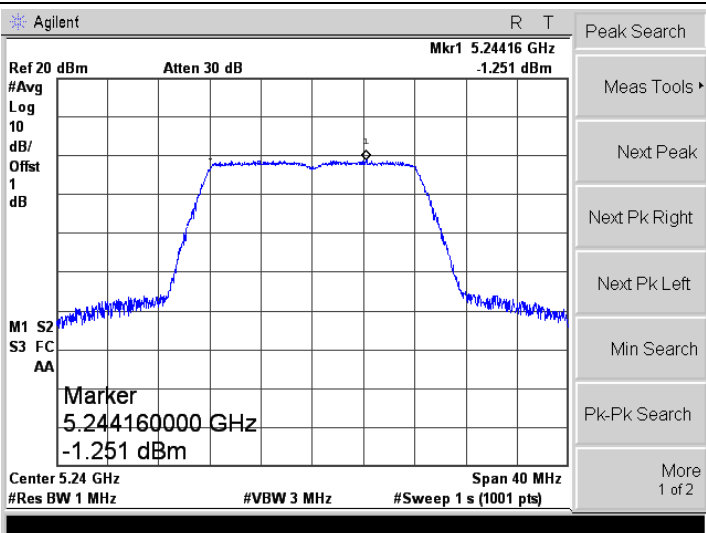
| U-NII-2A: 5250-5350MHz | | | |
|-------------------------------|--------------|-----------------------------------|--------------------|
| Operating mode | Test Channel | Power Spectral Density dBm/MHz | Limit (dBm/MHz) |
| 802.11a | 5260 | -0.951 | 11 |
| | 5280 | -1.009 | 11 |
| | 5320 | -0.440 | 11 |
| 802.11n-HT20 | 5260 | -0.215 | 11 |
| | 5280 | -0.266 | 11 |
| | 5320 | 0.264 | 11 |
| 802.11n-HT40 | 5270 | -3.487 | 11 |
| | 5310 | -3.228 | 11 |

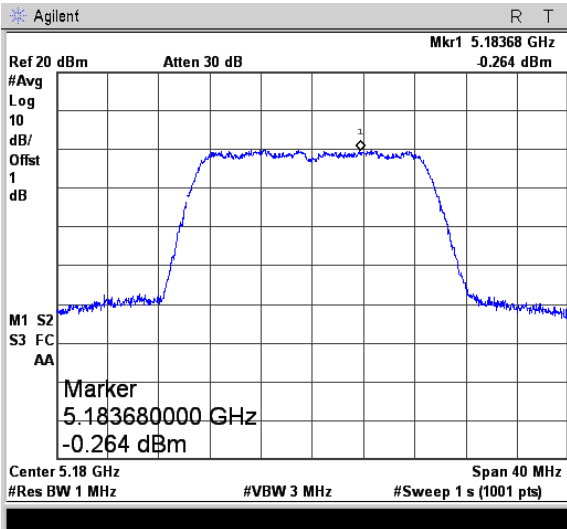
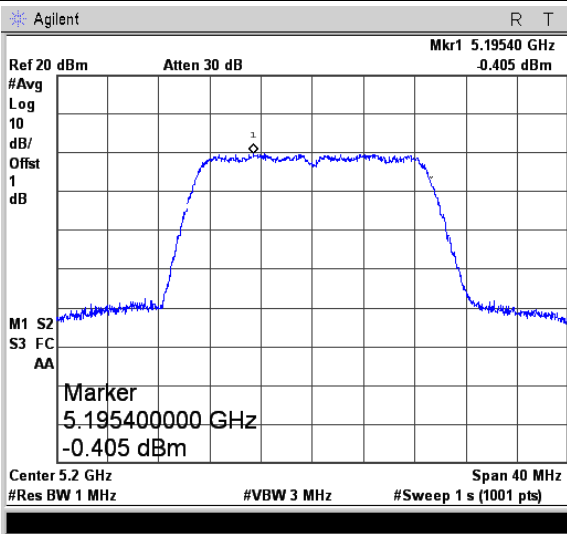
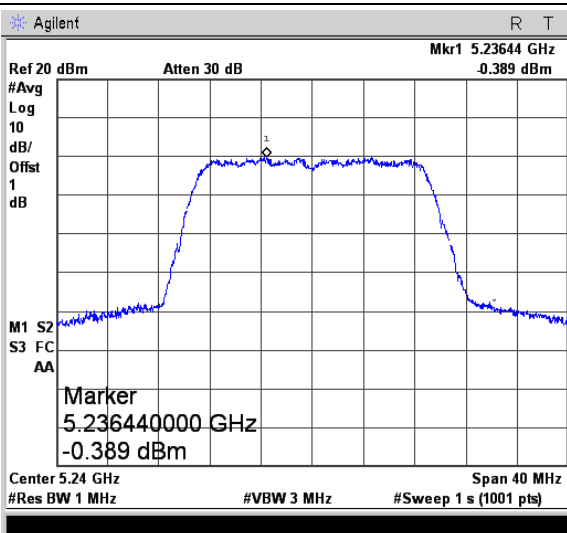
| U-NII-2C: 5470-5725MHz | | | |
|-------------------------------|--------------|-----------------------------------|--------------------|
| Operating mode | Test Channel | Power Spectral Density dBm/MHz | Limit (dBm/MHz) |
| 802.11a | 5500 | -2.213 | 11 |
| | 5580 | -4.694 | 11 |
| | 5700 | -2.532 | 11 |
| 802.11n-HT20 | 5500 | -1.349 | 11 |
| | 5580 | -3.632 | 11 |
| | 5700 | -1.916 | 11 |
| 802.11n-HT40 | 5510 | -4.951 | 11 |
| | 5550 | -7.363 | 11 |
| | 5670 | -6.574 | 11 |

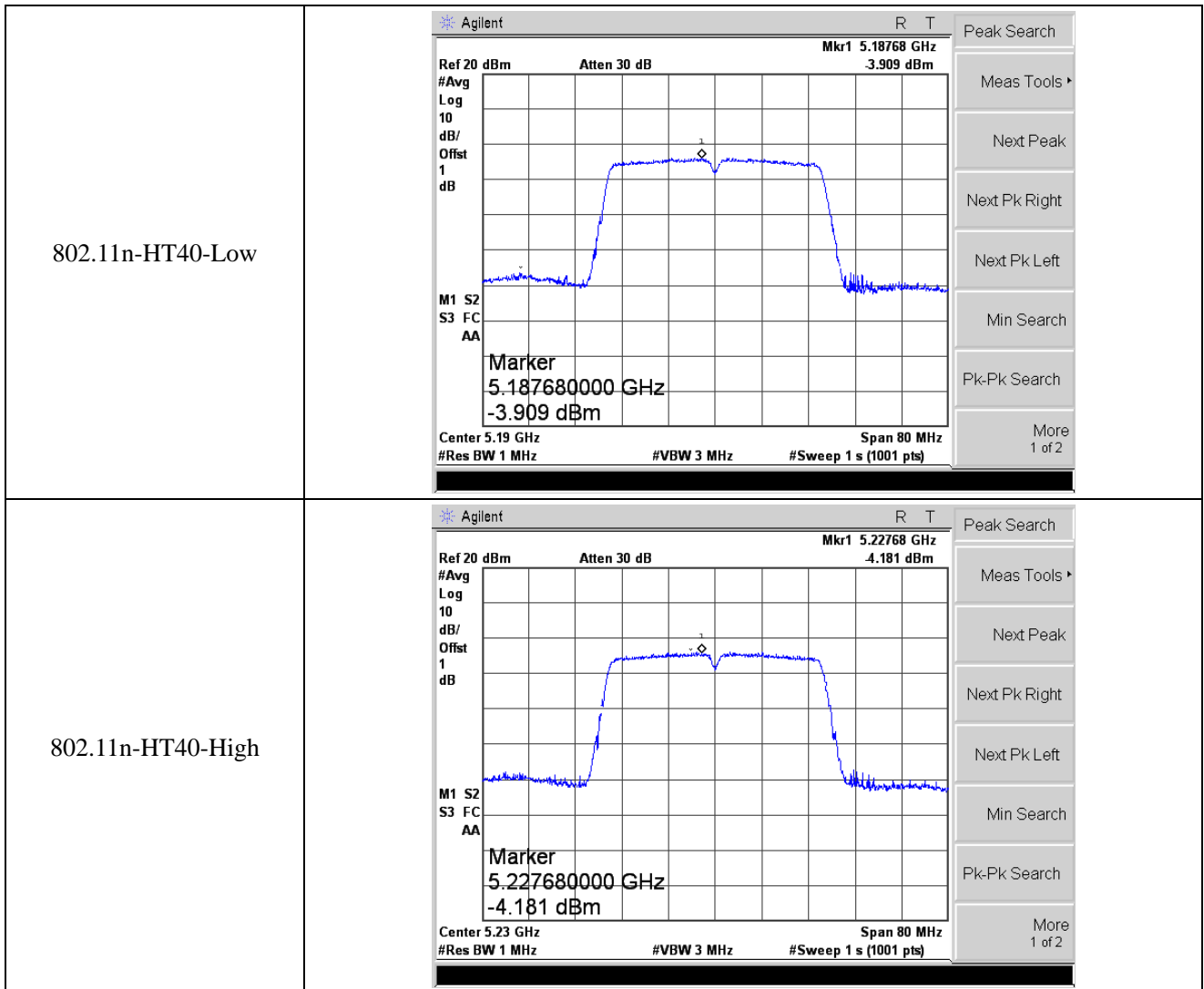
| U-NII-3: 5725-5850MHz | | | | | |
|------------------------------|--------------|--------------------------------------|--------|---------------------------------------|---------------------|
| Operating mode | Test Channel | Power Spectral Density dBm/300kHz | Factor | Power Spectral Density* dBm/500kHz | Limit dBm/500kHz |
| 802.11a | 5745 | -6.919 | 2.22 | -4.699 | 30 |
| | 5785 | -6.792 | 2.22 | -4.572 | 30 |
| | 5825 | -6.516 | 2.22 | -4.296 | 30 |
| 802.11n-HT20 | 5745 | -6.912 | 2.22 | -4.692 | 30 |
| | 5785 | -6.431 | 2.22 | -4.211 | 30 |
| | 5825 | -6.085 | 2.22 | -3.865 | 30 |
| 802.11n HT40 | 5755 | -9.535 | 2.22 | -7.315 | 30 |
| | 5795 | -9.433 | 2.22 | -7.213 | 30 |

*Note: Maximum PSD=PSD(dBm/300kHz)+10log(500kHz/300kHz)=2.22

5150-5250MHz

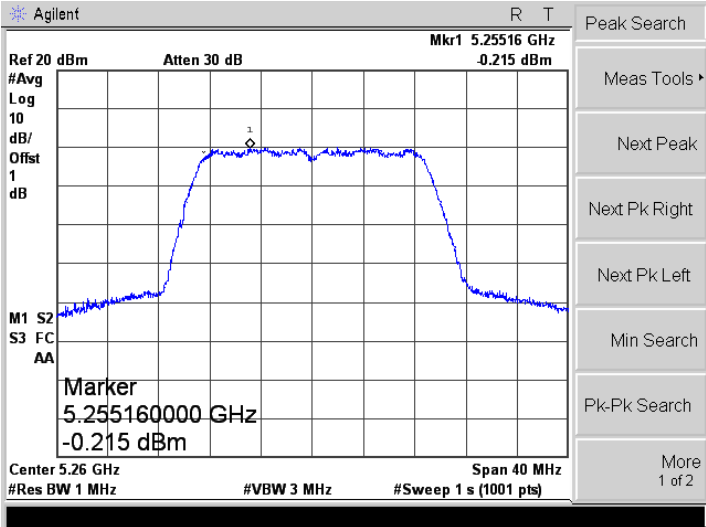
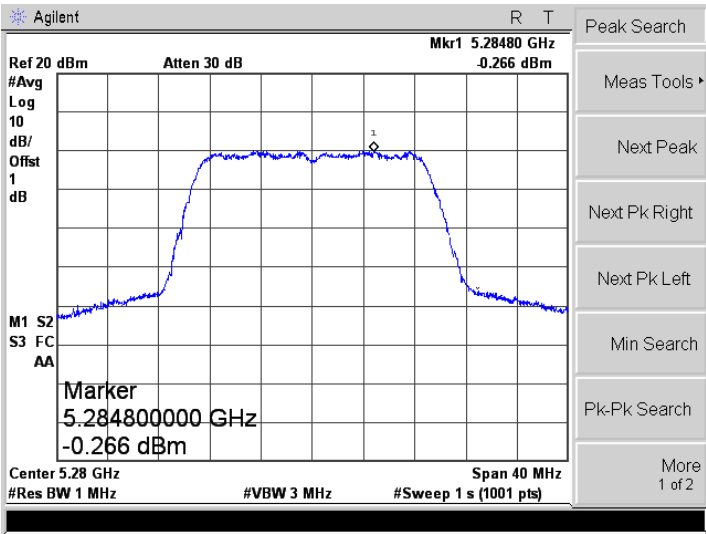
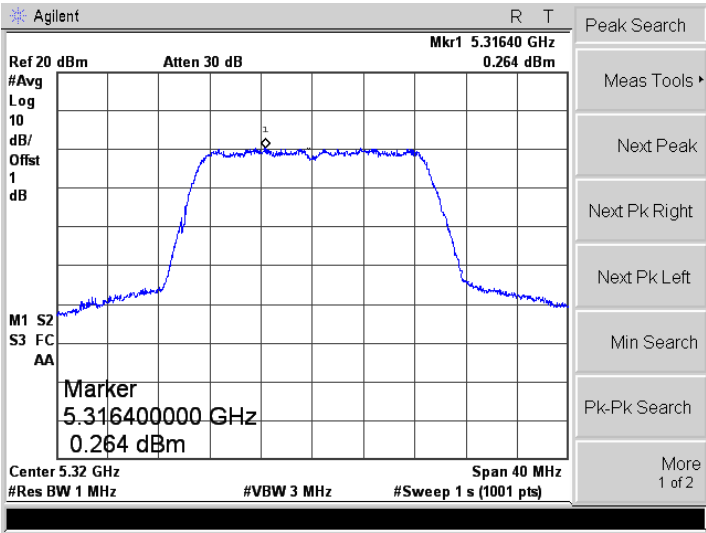
| | |
|-----------------------|--|
| <p>802.11a-Low</p> |  |
| <p>802.11a-Middle</p> |  |
| <p>802.11a-High</p> |  |

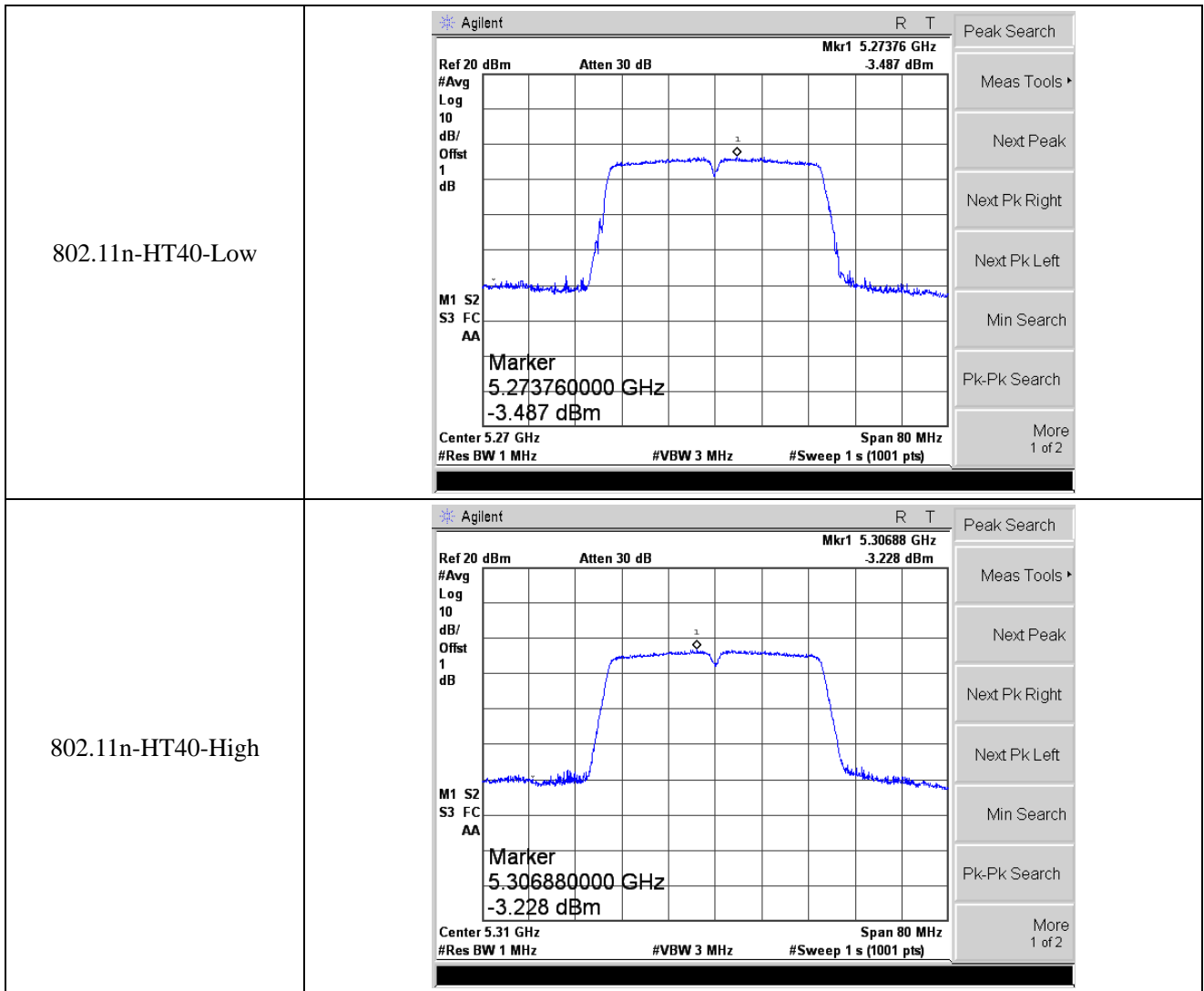
| | |
|----------------------------|---|
| <p>802.11n-HT20-Low</p> |  <p>Agilent R T Ref 20 dBm Atten 30 dB Mkr1 5.18368 GHz -0.264 dBm #Avg 10 Log dB/ Offst 1 dB M1 S2 S3 FC AA Marker 5.183680000 GHz -0.264 dBm Center 5.18 GHz Span 40 MHz #Res BW 1 MHz #VBW 3 MHz #Sweep 1 s (1001 pts)</p> |
| <p>802.11n-HT20-Middle</p> |  <p>Agilent R T Ref 20 dBm Atten 30 dB Mkr1 5.19540 GHz -0.405 dBm #Avg 10 Log dB/ Offst 1 dB M1 S2 S3 FC AA Marker 5.195400000 GHz -0.405 dBm Center 5.2 GHz Span 40 MHz #Res BW 1 MHz #VBW 3 MHz #Sweep 1 s (1001 pts)</p> |
| <p>802.11n-HT20-High</p> |  <p>Agilent R T Ref 20 dBm Atten 30 dB Mkr1 5.23644 GHz -0.389 dBm #Avg 10 Log dB/ Offst 1 dB M1 S2 S3 FC AA Marker 5.236440000 GHz -0.389 dBm Center 5.24 GHz Span 40 MHz #Res BW 1 MHz #VBW 3 MHz #Sweep 1 s (1001 pts)</p> |



5250-5350MHz

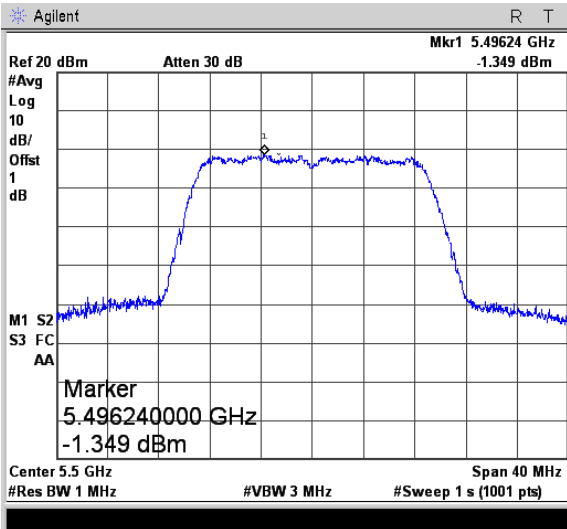
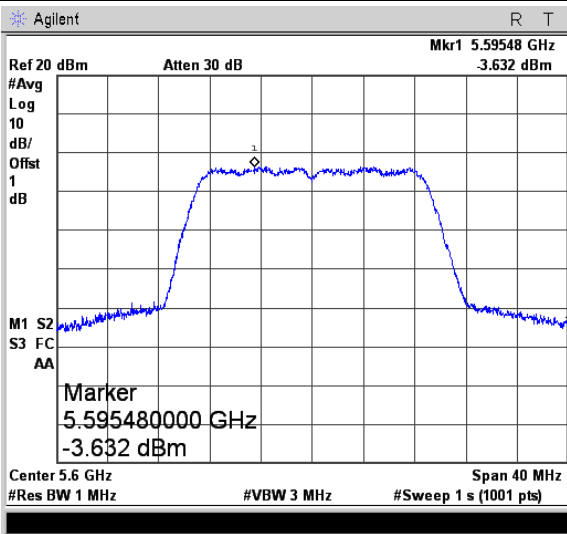
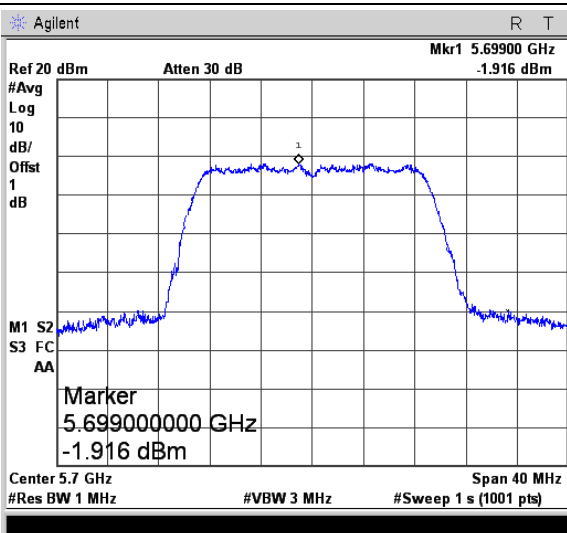
| | |
|-----------------------|--|
| <p>802.11a-Low</p> | |
| <p>802.11a-Middle</p> | |
| <p>802.11a-High</p> | |

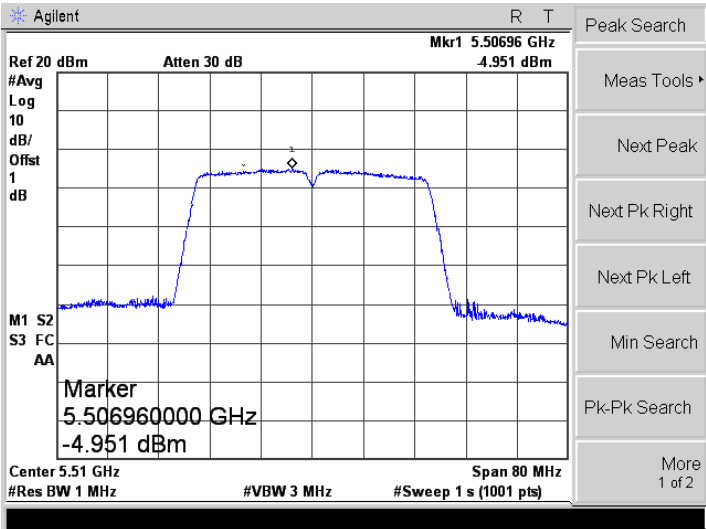
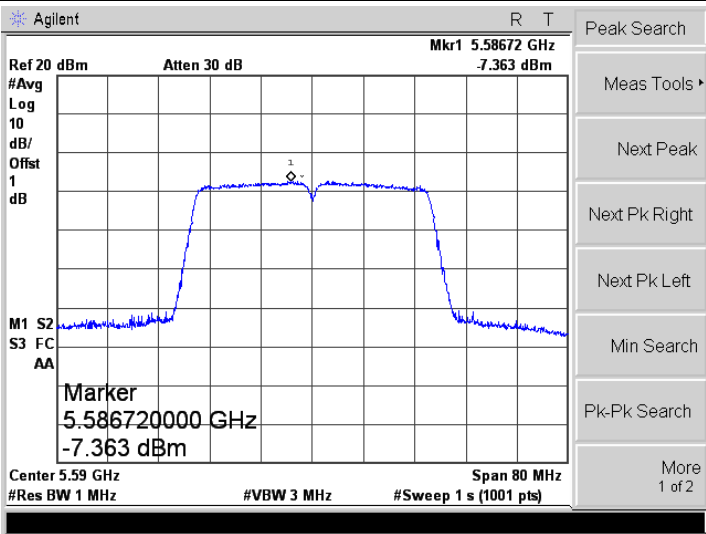
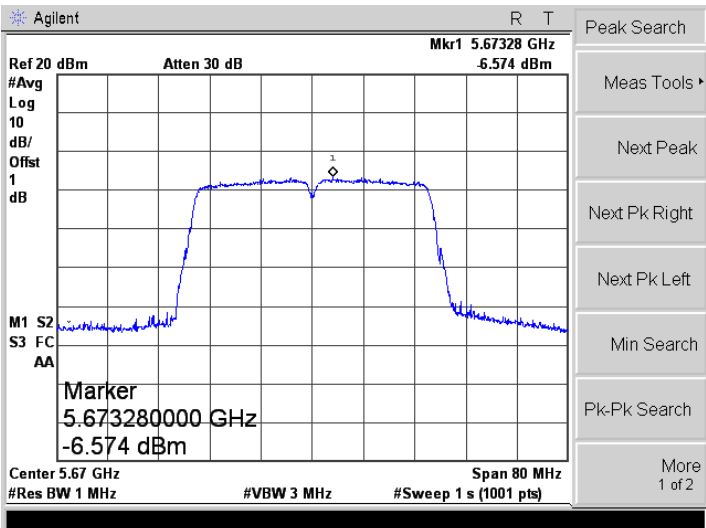
| | |
|----------------------------|--|
| <p>802.11n-HT20-Low</p> |  |
| <p>802.11n-HT20-Middle</p> |  |
| <p>802.11n-HT20-High</p> |  |



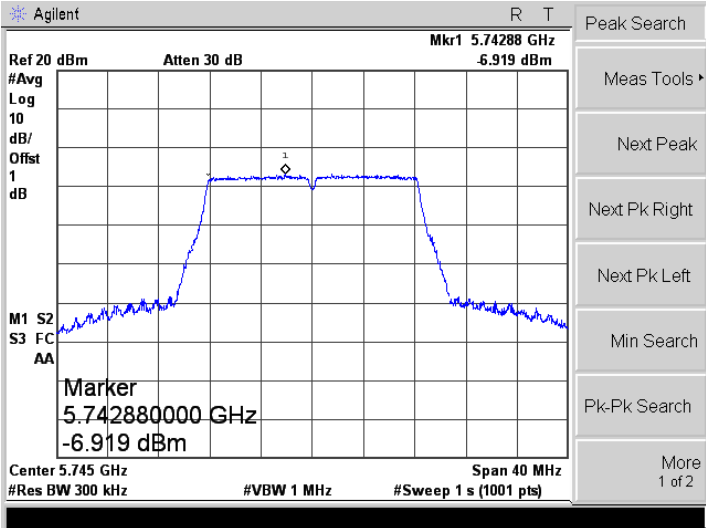
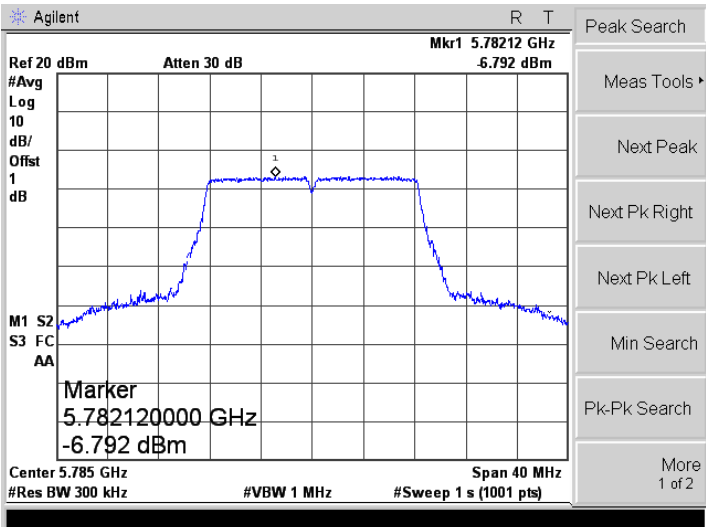
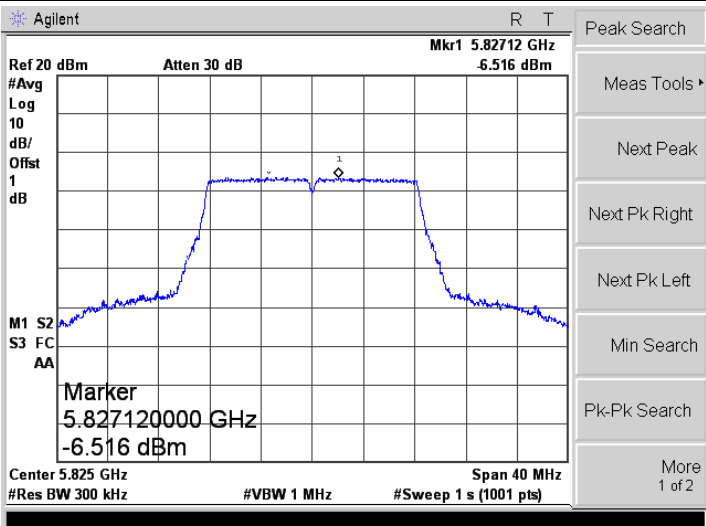
5470-5725MHz

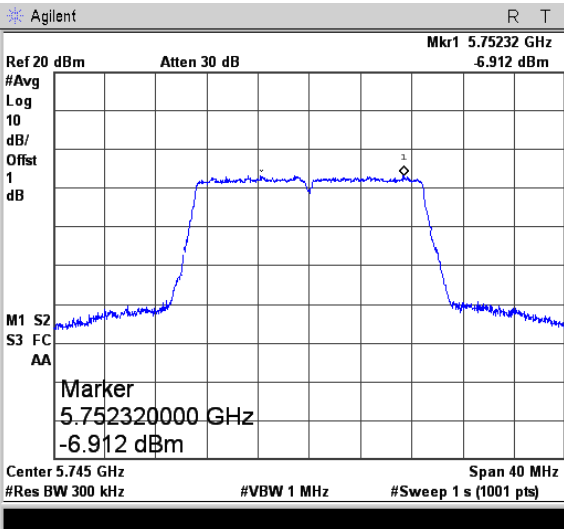
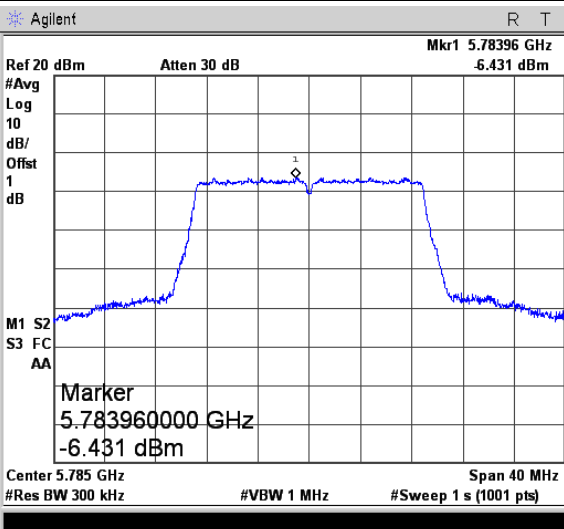
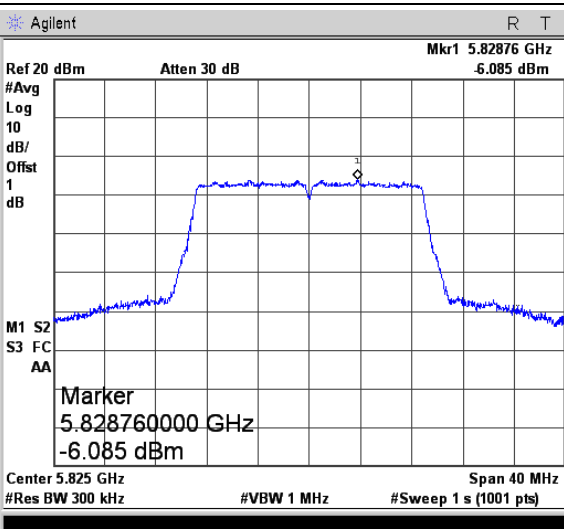
| | |
|-----------------------|---|
| <p>802.11a-Low</p> | <p>Agilent R T</p> <p>Ref 20 dBm Atten 30 dB Mkr1 5.49596 GHz -2.213 dBm</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>M1 S2 S3 FC AA</p> <p>Marker 5.495960000 GHz -2.213 dBm</p> <p>Center 5.5 GHz Span 40 MHz #Res BW 1 MHz #VBW 3 MHz #Sweep 1 s (1001 pts)</p> <p>Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2</p> |
| <p>802.11a-Middle</p> | <p>Agilent R T</p> <p>Ref 20 dBm Atten 30 dB Mkr1 5.59756 GHz -4.694 dBm</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>M1 S2 S3 FC AA</p> <p>Marker 5.597560000 GHz -4.694 dBm</p> <p>Center 5.6 GHz Span 40 MHz #Res BW 1 MHz #VBW 3 MHz #Sweep 1 s (1001 pts)</p> <p>Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2</p> |
| <p>802.11a-High</p> | <p>Agilent R T</p> <p>Ref 20 dBm Atten 30 dB Mkr1 5.69792 GHz -2.532 dBm</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>M1 S2 S3 FC AA</p> <p>Marker 5.697920000 GHz -2.532 dBm</p> <p>Center 5.7 GHz Span 40 MHz #Res BW 1 MHz #VBW 3 MHz #Sweep 1 s (1001 pts)</p> <p>Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2</p> |

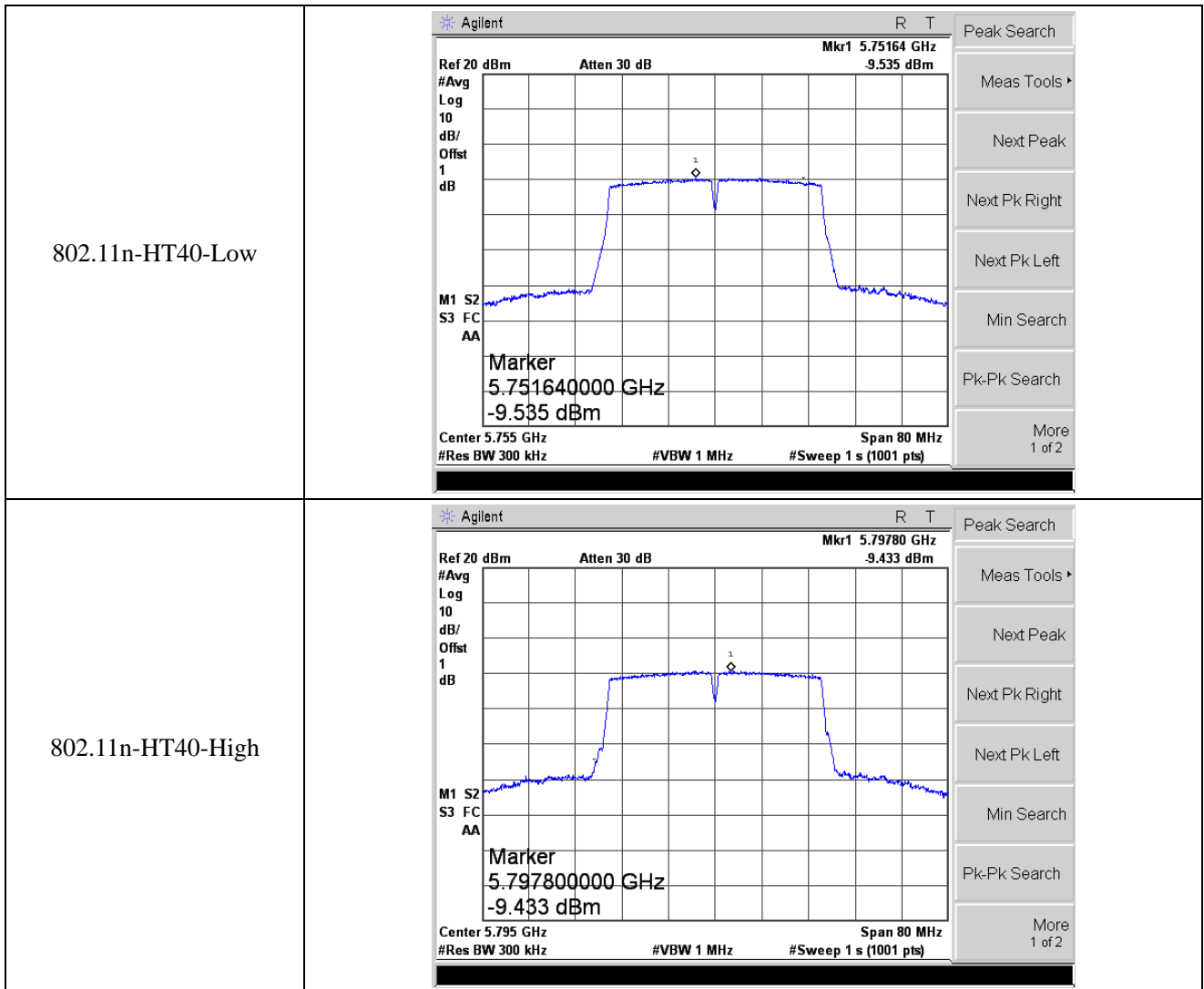
| | |
|----------------------------|--|
| <p>802.11n-HT20-Low</p> |  <p>Agilent R T Ref 20 dBm Atten 30 dB Mkr1 5.49624 GHz -1.349 dBm #Avg 10 Log dB/ Offst 1 dB M1 S2 S3 FC AA Marker 5.496240000 GHz -1.349 dBm Center 5.5 GHz Span 40 MHz #Res BW 1 MHz #VBW 3 MHz #Sweep 1 s (1001 pts)</p> |
| <p>802.11n-HT20-Middle</p> |  <p>Agilent R T Ref 20 dBm Atten 30 dB Mkr1 5.59548 GHz -3.632 dBm #Avg 10 Log dB/ Offst 1 dB M1 S2 S3 FC AA Marker 5.595480000 GHz -3.632 dBm Center 5.6 GHz Span 40 MHz #Res BW 1 MHz #VBW 3 MHz #Sweep 1 s (1001 pts)</p> |
| <p>802.11n-HT20-High</p> |  <p>Agilent R T Ref 20 dBm Atten 30 dB Mkr1 5.69900 GHz -1.916 dBm #Avg 10 Log dB/ Offst 1 dB M1 S2 S3 FC AA Marker 5.699000000 GHz -1.916 dBm Center 5.7 GHz Span 40 MHz #Res BW 1 MHz #VBW 3 MHz #Sweep 1 s (1001 pts)</p> |

| | |
|-----------------------------|--|
| <p>802.11n-HT40-Low</p> |  |
| <p>802.11n-HT40- Middle</p> |  |
| <p>802.11n-HT40-High</p> |  |

5725-5850MHz

| | |
|-----------------------|---|
| <p>802.11a-Low</p> |  <p>Agilent R T</p> <p>Ref 20 dBm Atten 30 dB Mkr1 5.74288 GHz -6.919 dBm</p> <p>#Avg Log 10 dB/Offst 1 dB</p> <p>M1 S2 S3 FC AA</p> <p>Marker 5.742880000 GHz -6.919 dBm</p> <p>Center 5.745 GHz Span 40 MHz #Res BW 300 kHz #VBW 1 MHz #Sweep 1 s (1001 pts)</p> <p>Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2</p> |
| <p>802.11a-Middle</p> |  <p>Agilent R T</p> <p>Ref 20 dBm Atten 30 dB Mkr1 5.78212 GHz -6.792 dBm</p> <p>#Avg Log 10 dB/Offst 1 dB</p> <p>M1 S2 S3 FC AA</p> <p>Marker 5.782120000 GHz -6.792 dBm</p> <p>Center 5.785 GHz Span 40 MHz #Res BW 300 kHz #VBW 1 MHz #Sweep 1 s (1001 pts)</p> <p>Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2</p> |
| <p>802.11a-High</p> |  <p>Agilent R T</p> <p>Ref 20 dBm Atten 30 dB Mkr1 5.82712 GHz -6.516 dBm</p> <p>#Avg Log 10 dB/Offst 1 dB</p> <p>M1 S2 S3 FC AA</p> <p>Marker 5.827120000 GHz -6.516 dBm</p> <p>Center 5.825 GHz Span 40 MHz #Res BW 300 kHz #VBW 1 MHz #Sweep 1 s (1001 pts)</p> <p>Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2</p> |

| | |
|----------------------------|--|
| <p>802.11n-HT20-Low</p> |  <p>Agilent R T Ref 20 dBm Atten 30 dB Mkr1 5.75232 GHz -6.912 dBm #Avg 10 Log dB/ Offst 1 dB M1 S2 S3 FC AA Marker 5.752320000 GHz -6.912 dBm Center 5.745 GHz Span 40 MHz #Res BW 300 kHz #VBW 1 MHz #Sweep 1 s (1001 pts)</p> |
| <p>802.11n-HT20-Middle</p> |  <p>Agilent R T Ref 20 dBm Atten 30 dB Mkr1 5.78396 GHz -6.431 dBm #Avg 10 Log dB/ Offst 1 dB M1 S2 S3 FC AA Marker 5.783960000 GHz -6.431 dBm Center 5.785 GHz Span 40 MHz #Res BW 300 kHz #VBW 1 MHz #Sweep 1 s (1001 pts)</p> |
| <p>802.11n-HT20-High</p> |  <p>Agilent R T Ref 20 dBm Atten 30 dB Mkr1 5.82876 GHz -6.085 dBm #Avg 10 Log dB/ Offst 1 dB M1 S2 S3 FC AA Marker 5.828760000 GHz -6.085 dBm Center 5.825 GHz Span 40 MHz #Res BW 300 kHz #VBW 1 MHz #Sweep 1 s (1001 pts)</p> |



APPENDIX B

Emission Bandwidth and Occupied Bandwidth

| U-NII-1:5150-5250MHz | | | | |
|-----------------------------|-------------------------|----------------------------|--------------------------|------------------|
| Test Mode | Test Channel MHz | 26 dB Bandwidth MHz | 99% Bandwidth MHz | Limit MHz |
| 802.11a | 5180 | 30.8930 | 17.3219 | Pass |
| | 5200 | 30.8860 | 17.2505 | Pass |
| | 5240 | 28.8600 | 17.1591 | Pass |
| 802.11n-HT20 | 5180 | 20.9840 | 18.0181 | Pass |
| | 5200 | 20.8520 | 17.9903 | Pass |
| | 5240 | 20.9240 | 18.0013 | Pass |
| 802.11n-HT40 | 5190 | 46.0530 | 36.1987 | Pass |
| | 5230 | 44.8450 | 36.2510 | Pass |

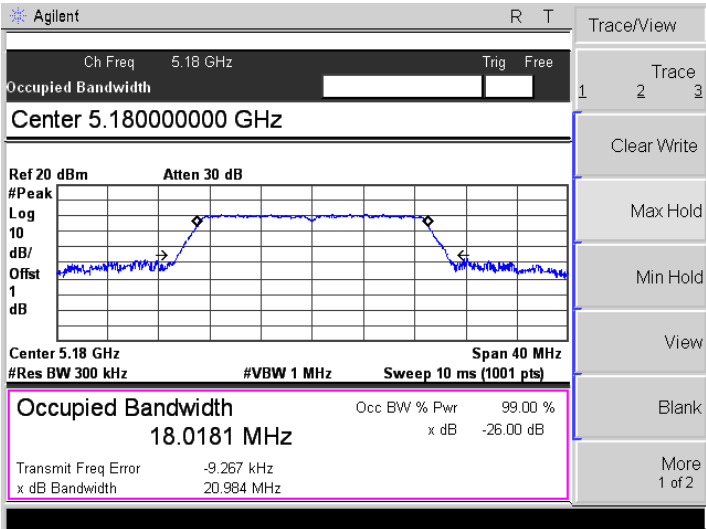
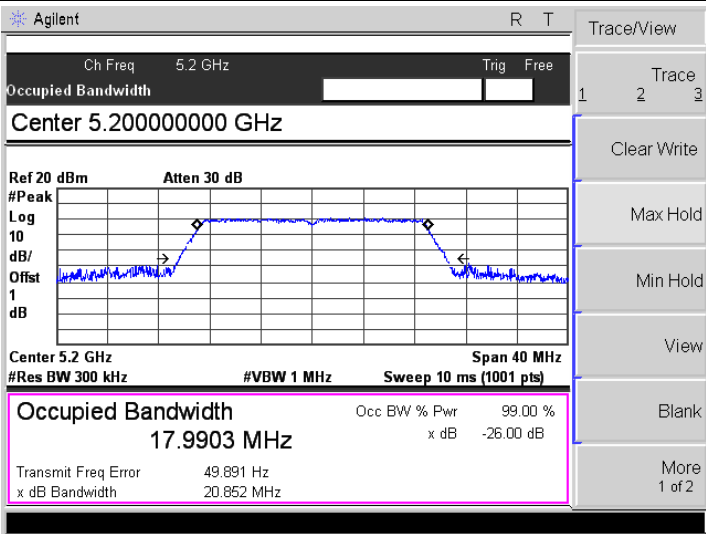
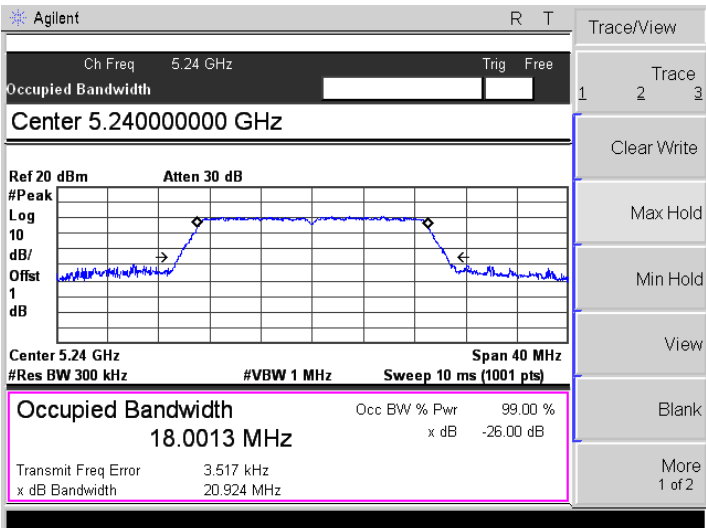
| U-NII-2A: 5250-5350MHz | | | | |
|-------------------------------|-------------------------|----------------------------|--------------------------|------------------|
| Test Mode | Test Channel MHz | 26 dB Bandwidth MHz | 99% Bandwidth MHz | Limit MHz |
| 802.11a | 5260 | 28.7360 | 17.2282 | Pass |
| | 5280 | 26.5210 | 17.1596 | Pass |
| | 5320 | 28.8140 | 17.2531 | Pass |
| 802.11n-HT20 | 5260 | 21.0070 | 18.0294 | Pass |
| | 5280 | 20.9170 | 18.0008 | Pass |
| | 5320 | 20.9410 | 17.9856 | Pass |
| 802.11n-HT40 | 5270 | 44.0530 | 36.2554 | Pass |
| | 5310 | 44.1830 | 36.2589 | Pass |

| U-NII-2C: 5470-5725MHz | | | | |
|-------------------------------|-------------------------|----------------------------|--------------------------|------------------|
| Test Mode | Test Channel MHz | 26 dB Bandwidth MHz | 99% Bandwidth MHz | Limit MHz |
| 802.11a | 5500 | 30.9630 | 17.3761 | Pass |
| | 5580 | 30.6010 | 17.2288 | Pass |
| | 5700 | 28.8140 | 17.2762 | Pass |
| 802.11n-HT20 | 5500 | 20.8300 | 18.0118 | Pass |
| | 5580 | 20.8980 | 18.0011 | Pass |
| | 5700 | 20.8970 | 18.0305 | Pass |
| 802.11n-HT40 | 5510 | 62.8030 | 37.1439 | Pass |
| | 5550 | 54.0270 | 36.8631 | Pass |
| | 5670 | 54.6500 | 36.8031 | Pass |

| U-NII-3: 5725-5850MHz | | | | |
|------------------------------|-------------------------|---------------------------|--------------------------|------------------|
| Test Mode | Test Channel MHz | 6 dB Bandwidth MHz | 99% Bandwidth MHz | Limit MHz |
| 802.11a | 5745 | 16.3630 | 17.4193 | ≥500 |
| | 5785 | 16.3440 | 17.3149 | ≥500 |
| | 5825 | 16.3600 | 17.3576 | ≥500 |
| 802.11n-HT20 | 5745 | 17.6010 | 18.0954 | ≥500 |
| | 5785 | 17.6190 | 18.1796 | ≥500 |
| | 5825 | 17.5720 | 18.1685 | ≥500 |
| 802.11n-HT40 | 5755 | 35.5840 | 36.3807 | ≥500 |
| | 5795 | 35.6700 | 36.4061 | ≥500 |

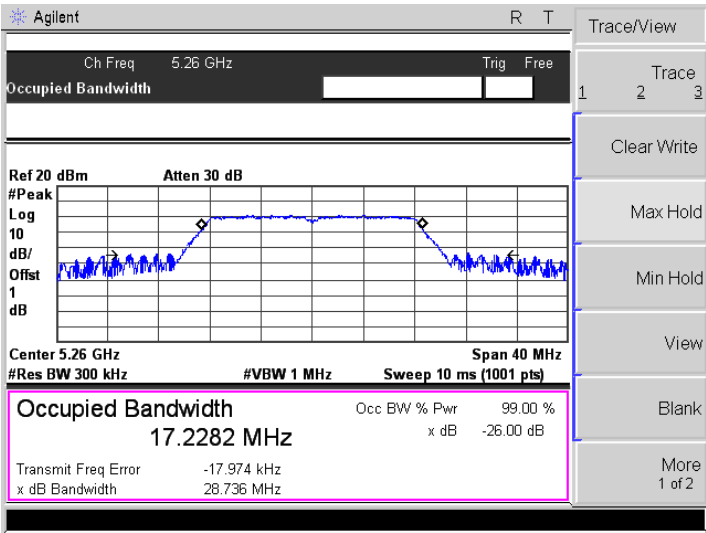
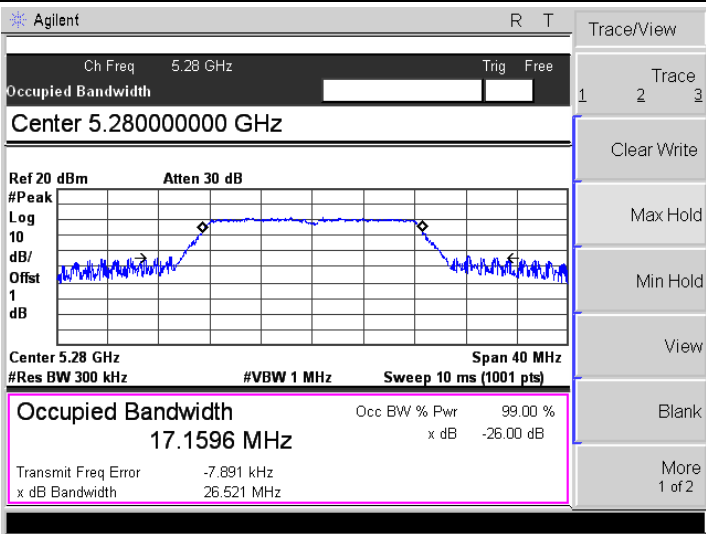
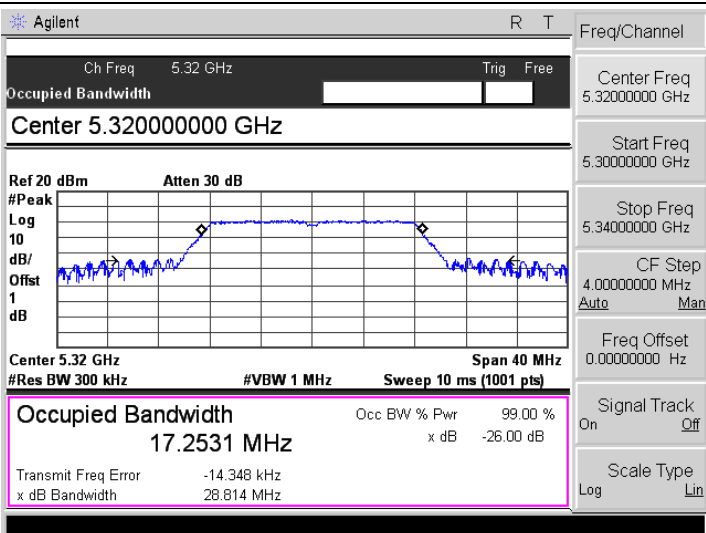
5150-5250MHz

| | |
|-----------------------|---|
| <p>802.11a-Low</p> | <p>Agilent R T</p> <p>Ch Freq 5.18 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 1 dB</p> <p>Center 5.18 GHz Span 40 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 17.3219 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -42.007 kHz x dB Bandwidth 30.893 MHz</p> <p>Trace/View</p> <p>Trace 1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p> |
| <p>802.11a-Middle</p> | <p>Agilent R T</p> <p>Ch Freq 5.2 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 5.20000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 1 dB</p> <p>Center 5.2 GHz Span 40 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 17.2505 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -32.039 kHz x dB Bandwidth 30.886 MHz</p> <p>Trace/View</p> <p>Trace 1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p> |
| <p>802.11a-High</p> | <p>Agilent R T</p> <p>Ch Freq 5.24 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 5.24000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 1 dB</p> <p>Center 5.24 GHz Span 40 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 17.1591 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -15.714 kHz x dB Bandwidth 28.860 MHz</p> <p>Trace/View</p> <p>Trace 1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p> |

| | |
|----------------------------|---|
| <p>802.11n-HT20-Low</p> |  <p>Agilent R T</p> <p>Ch Freq 5.18 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 5.18000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log</p> <p>10 dB/</p> <p>Offst</p> <p>1 dB</p> <p>Center 5.18 GHz Span 40 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 18.0181 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -9.267 kHz</p> <p>x dB Bandwidth 20.984 MHz</p> |
| <p>802.11n-HT20-Middle</p> |  <p>Agilent R T</p> <p>Ch Freq 5.2 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 5.20000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log</p> <p>10 dB/</p> <p>Offst</p> <p>1 dB</p> <p>Center 5.2 GHz Span 40 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 17.9903 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error 49.891 Hz</p> <p>x dB Bandwidth 20.852 MHz</p> |
| <p>802.11n-HT20-High</p> |  <p>Agilent R T</p> <p>Ch Freq 5.24 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 5.24000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log</p> <p>10 dB/</p> <p>Offst</p> <p>1 dB</p> <p>Center 5.24 GHz Span 40 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 18.0013 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error 3.517 kHz</p> <p>x dB Bandwidth 20.924 MHz</p> |

| | | | | | | | | | | | | | | | | | |
|---------------------------|---|---------------------------|-----------|--------------|---------|-------------|--|------|-----------|---------------------|------------|--|--|----------------|------------|--|--|
| <p>802.11n-HT40-Low</p> | <p>Agilent R T</p> <p>Ch Freq 5.19 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log 10 dB/</p> <p>Offst 1 dB</p> <p>Center 5.19 GHz Span 80 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <table border="1"> <tr> <td colspan="2">Occupied Bandwidth</td> <td>Occ BW % Pwr</td> <td>99.00 %</td> </tr> <tr> <td colspan="2">36.1987 MHz</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>Transmit Freq Error</td> <td>13.510 kHz</td> <td></td> <td></td> </tr> <tr> <td>x dB Bandwidth</td> <td>46.053 MHz</td> <td></td> <td></td> </tr> </table> <p>Trace/View</p> <p>1 2 3</p> <p>Trace</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p> | Occupied Bandwidth | | Occ BW % Pwr | 99.00 % | 36.1987 MHz | | x dB | -26.00 dB | Transmit Freq Error | 13.510 kHz | | | x dB Bandwidth | 46.053 MHz | | |
| Occupied Bandwidth | | Occ BW % Pwr | 99.00 % | | | | | | | | | | | | | | |
| 36.1987 MHz | | x dB | -26.00 dB | | | | | | | | | | | | | | |
| Transmit Freq Error | 13.510 kHz | | | | | | | | | | | | | | | | |
| x dB Bandwidth | 46.053 MHz | | | | | | | | | | | | | | | | |
| <p>802.11n-HT40-High</p> | <p>Agilent R T</p> <p>Ch Freq 5.23 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 5.23000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log 10 dB/</p> <p>Offst 1 dB</p> <p>Center 5.23 GHz Span 80 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <table border="1"> <tr> <td colspan="2">Occupied Bandwidth</td> <td>Occ BW % Pwr</td> <td>99.00 %</td> </tr> <tr> <td colspan="2">36.2510 MHz</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>Transmit Freq Error</td> <td>9.395 kHz</td> <td></td> <td></td> </tr> <tr> <td>x dB Bandwidth</td> <td>44.845 MHz</td> <td></td> <td></td> </tr> </table> <p>Freq/Channel</p> <p>Center Freq 5.23000000 GHz</p> <p>Start Freq 5.19000000 GHz</p> <p>Stop Freq 5.27000000 GHz</p> <p>CF Step 8.00000000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> | Occupied Bandwidth | | Occ BW % Pwr | 99.00 % | 36.2510 MHz | | x dB | -26.00 dB | Transmit Freq Error | 9.395 kHz | | | x dB Bandwidth | 44.845 MHz | | |
| Occupied Bandwidth | | Occ BW % Pwr | 99.00 % | | | | | | | | | | | | | | |
| 36.2510 MHz | | x dB | -26.00 dB | | | | | | | | | | | | | | |
| Transmit Freq Error | 9.395 kHz | | | | | | | | | | | | | | | | |
| x dB Bandwidth | 44.845 MHz | | | | | | | | | | | | | | | | |

5250-5350MHz

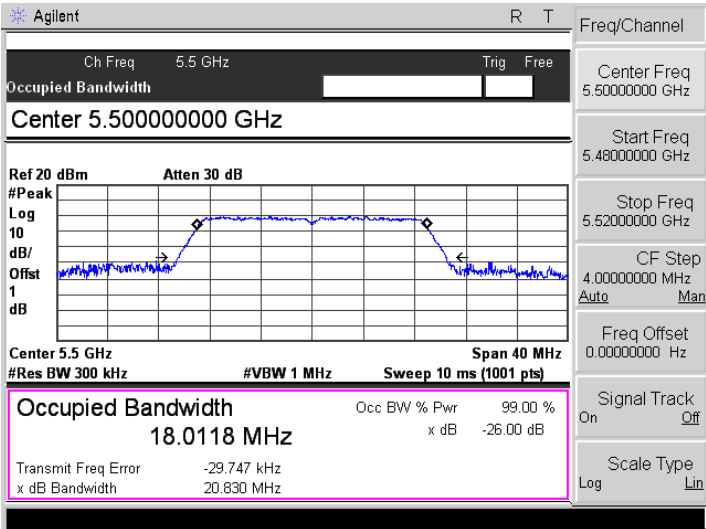
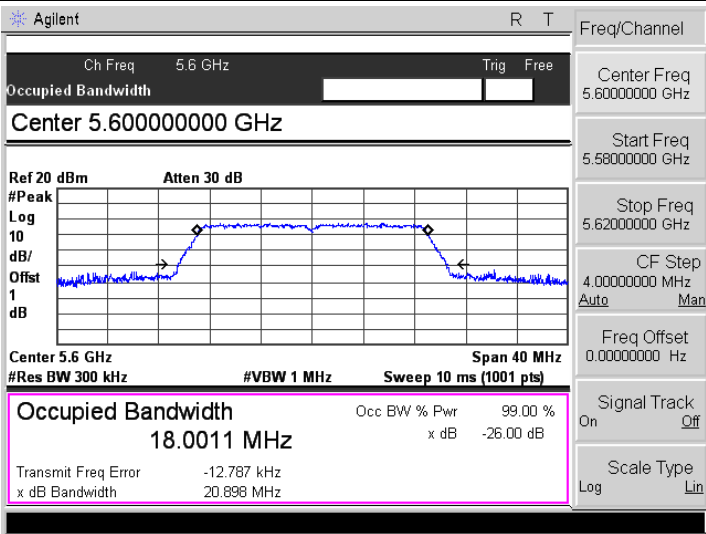
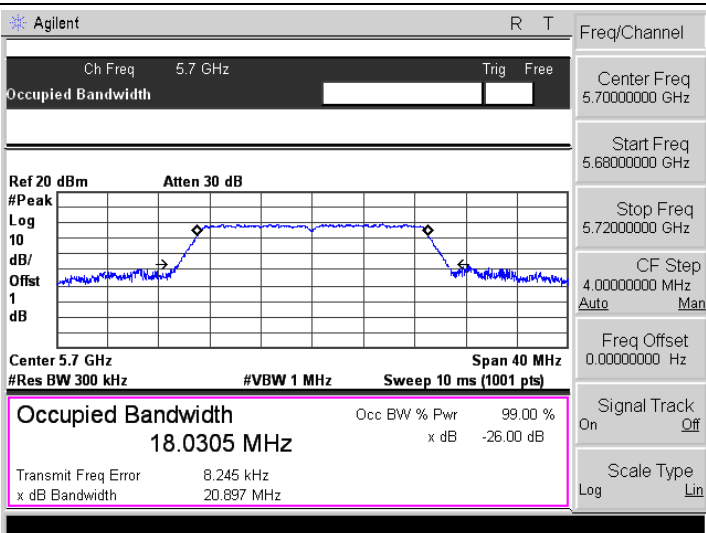
| | | | | | | | | | | | | | | | | | |
|---------------------------|---|---------------------------|-----------|--------------|---------|-------------|--|------|-----------|---------------------|-------------|--|--|----------------|------------|--|--|
| <p>802.11a-Low</p> |  <p>Agilent R T</p> <p>Ch Freq 5.26 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 1 dB</p> <p>Center 5.26 GHz Span 40 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <table border="1"> <tr> <td colspan="2">Occupied Bandwidth</td> <td>Occ BW % Pwr</td> <td>99.00 %</td> </tr> <tr> <td colspan="2">17.2282 MHz</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>Transmit Freq Error</td> <td colspan="3">-17.974 kHz</td> </tr> <tr> <td>x dB Bandwidth</td> <td colspan="3">28.736 MHz</td> </tr> </table> <p>Trace/View</p> <p>Trace 1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p> | Occupied Bandwidth | | Occ BW % Pwr | 99.00 % | 17.2282 MHz | | x dB | -26.00 dB | Transmit Freq Error | -17.974 kHz | | | x dB Bandwidth | 28.736 MHz | | |
| Occupied Bandwidth | | Occ BW % Pwr | 99.00 % | | | | | | | | | | | | | | |
| 17.2282 MHz | | x dB | -26.00 dB | | | | | | | | | | | | | | |
| Transmit Freq Error | -17.974 kHz | | | | | | | | | | | | | | | | |
| x dB Bandwidth | 28.736 MHz | | | | | | | | | | | | | | | | |
| <p>802.11a-Middle</p> |  <p>Agilent R T</p> <p>Ch Freq 5.28 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 5.28000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 1 dB</p> <p>Center 5.28 GHz Span 40 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <table border="1"> <tr> <td colspan="2">Occupied Bandwidth</td> <td>Occ BW % Pwr</td> <td>99.00 %</td> </tr> <tr> <td colspan="2">17.1596 MHz</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>Transmit Freq Error</td> <td colspan="3">-7.891 kHz</td> </tr> <tr> <td>x dB Bandwidth</td> <td colspan="3">26.521 MHz</td> </tr> </table> <p>Trace/View</p> <p>Trace 1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p> | Occupied Bandwidth | | Occ BW % Pwr | 99.00 % | 17.1596 MHz | | x dB | -26.00 dB | Transmit Freq Error | -7.891 kHz | | | x dB Bandwidth | 26.521 MHz | | |
| Occupied Bandwidth | | Occ BW % Pwr | 99.00 % | | | | | | | | | | | | | | |
| 17.1596 MHz | | x dB | -26.00 dB | | | | | | | | | | | | | | |
| Transmit Freq Error | -7.891 kHz | | | | | | | | | | | | | | | | |
| x dB Bandwidth | 26.521 MHz | | | | | | | | | | | | | | | | |
| <p>802.11a-High</p> |  <p>Agilent R T</p> <p>Ch Freq 5.32 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 5.32000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 1 dB</p> <p>Center 5.32 GHz Span 40 MHz #Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <table border="1"> <tr> <td colspan="2">Occupied Bandwidth</td> <td>Occ BW % Pwr</td> <td>99.00 %</td> </tr> <tr> <td colspan="2">17.2531 MHz</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>Transmit Freq Error</td> <td colspan="3">-14.348 kHz</td> </tr> <tr> <td>x dB Bandwidth</td> <td colspan="3">28.814 MHz</td> </tr> </table> <p>Freq/Channel</p> <p>Center Freq 5.32000000 GHz</p> <p>Start Freq 5.30000000 GHz</p> <p>Stop Freq 5.34000000 GHz</p> <p>CF Step 4.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> | Occupied Bandwidth | | Occ BW % Pwr | 99.00 % | 17.2531 MHz | | x dB | -26.00 dB | Transmit Freq Error | -14.348 kHz | | | x dB Bandwidth | 28.814 MHz | | |
| Occupied Bandwidth | | Occ BW % Pwr | 99.00 % | | | | | | | | | | | | | | |
| 17.2531 MHz | | x dB | -26.00 dB | | | | | | | | | | | | | | |
| Transmit Freq Error | -14.348 kHz | | | | | | | | | | | | | | | | |
| x dB Bandwidth | 28.814 MHz | | | | | | | | | | | | | | | | |

| | |
|----------------------------|---|
| <p>802.11n-HT20-Low</p> | <p>Agilent R T</p> <p>Ch Freq 5.26 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 5.26000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log</p> <p>10</p> <p>dB/</p> <p>Offst</p> <p>1</p> <p>dB</p> <p>Center 5.26 GHz Span 40 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 18.0294 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -4.354 kHz</p> <p>x dB Bandwidth 21.007 MHz</p> <p>Freq/Channel</p> <p>Center Freq 5.26000000 GHz</p> <p>Start Freq 5.24000000 GHz</p> <p>Stop Freq 5.28000000 GHz</p> <p>CF Step 4.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> |
| <p>802.11n-HT20-Middle</p> | <p>Agilent R T</p> <p>Ch Freq 5.28 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 5.28000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log</p> <p>10</p> <p>dB/</p> <p>Offst</p> <p>1</p> <p>dB</p> <p>Center 5.28 GHz Span 40 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 18.0008 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error 2.634 kHz</p> <p>x dB Bandwidth 20.917 MHz</p> <p>Freq/Channel</p> <p>Center Freq 5.28000000 GHz</p> <p>Start Freq 5.26000000 GHz</p> <p>Stop Freq 5.30000000 GHz</p> <p>CF Step 4.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> |
| <p>802.11n-HT20-High</p> | <p>Agilent R T</p> <p>Ch Freq 5.32 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 5.32000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log</p> <p>10</p> <p>dB/</p> <p>Offst</p> <p>1</p> <p>dB</p> <p>Center 5.32 GHz Span 40 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 17.9856 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error 4.364 kHz</p> <p>x dB Bandwidth 20.941 MHz</p> <p>Freq/Channel</p> <p>Center Freq 5.32000000 GHz</p> <p>Start Freq 5.30000000 GHz</p> <p>Stop Freq 5.34000000 GHz</p> <p>CF Step 4.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> |

| | | | | | | | | | | | | | |
|--------------------------|--|--------------------|--------------|---------|-------------|------|-----------|---------------------|------------|--|----------------|------------|--|
| <p>802.11n-HT40-Low</p> | <p>Agilent R T</p> <p>Ch Freq 5.27 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Span 80.00000000 MHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log</p> <p>10 dB/</p> <p>Offset</p> <p>1 dB</p> <p>Center 5.27 GHz Span 80 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Occ BW % Pwr</td> <td>99.00 %</td> </tr> <tr> <td>36.2554 MHz</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>Transmit Freq Error</td> <td>3.511 kHz</td> <td></td> </tr> <tr> <td>x dB Bandwidth</td> <td>44.053 MHz</td> <td></td> </tr> </table> <p>Span</p> <p>Span 80.00000000 MHz</p> <p>Span Zoom</p> <p>Full Span</p> <p>Zero Span</p> <p>Last Span</p> <p>Zone ▶</p> | Occupied Bandwidth | Occ BW % Pwr | 99.00 % | 36.2554 MHz | x dB | -26.00 dB | Transmit Freq Error | 3.511 kHz | | x dB Bandwidth | 44.053 MHz | |
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % | | | | | | | | | | | |
| 36.2554 MHz | x dB | -26.00 dB | | | | | | | | | | | |
| Transmit Freq Error | 3.511 kHz | | | | | | | | | | | | |
| x dB Bandwidth | 44.053 MHz | | | | | | | | | | | | |
| <p>802.11n-HT40-High</p> | <p>Agilent R T</p> <p>Ch Freq 5.31 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 5.31000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log</p> <p>10 dB/</p> <p>Offset</p> <p>1 dB</p> <p>Center 5.31 GHz Span 80 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Occ BW % Pwr</td> <td>99.00 %</td> </tr> <tr> <td>36.2589 MHz</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>Transmit Freq Error</td> <td>10.357 kHz</td> <td></td> </tr> <tr> <td>x dB Bandwidth</td> <td>44.183 MHz</td> <td></td> </tr> </table> <p>Freq/Channel</p> <p>Center Freq 5.31000000 GHz</p> <p>Start Freq 5.27000000 GHz</p> <p>Stop Freq 5.35000000 GHz</p> <p>CF Step 8.00000000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> | Occupied Bandwidth | Occ BW % Pwr | 99.00 % | 36.2589 MHz | x dB | -26.00 dB | Transmit Freq Error | 10.357 kHz | | x dB Bandwidth | 44.183 MHz | |
| Occupied Bandwidth | Occ BW % Pwr | 99.00 % | | | | | | | | | | | |
| 36.2589 MHz | x dB | -26.00 dB | | | | | | | | | | | |
| Transmit Freq Error | 10.357 kHz | | | | | | | | | | | | |
| x dB Bandwidth | 44.183 MHz | | | | | | | | | | | | |

5470-5725MHz

| | |
|-----------------------|---|
| <p>802.11a-Low</p> | <p>Agilent R T Trace/View</p> <p>Ch Freq 5.5 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>x dB -26.00 dB</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offset 1 dB</p> <p>Center 5.5 GHz Span 40 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 17.3761 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -87.584 kHz</p> <p>x dB Bandwidth 30.963 MHz</p> <p>Trace 1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p> |
| <p>802.11a-Middle</p> | <p>Agilent R T Trace/View</p> <p>Ch Freq 5.6 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 5.60000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offset 1 dB</p> <p>Center 5.6 GHz Span 40 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 17.2288 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -31.910 kHz</p> <p>x dB Bandwidth 30.601 MHz</p> <p>Trace 1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p> |
| <p>802.11a-High</p> | <p>Agilent R T Trace/View</p> <p>Ch Freq 5.7 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 5.70000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offset 1 dB</p> <p>Center 5.7 GHz Span 40 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 17.2762 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -8.044 kHz</p> <p>x dB Bandwidth 28.814 MHz</p> <p>Trace 1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p> |

| | |
|----------------------------|---|
| <p>802.11n-HT20-Low</p> |  <p>Agilent R T</p> <p>Ch Freq 5.5 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 5.50000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log</p> <p>10 dB/</p> <p>Offst</p> <p>1 dB</p> <p>Center 5.5 GHz Span 40 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 18.0118 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -29.747 kHz x dB Bandwidth 20.830 MHz</p> <p>Freq/Channel</p> <p>Center Freq 5.50000000 GHz</p> <p>Start Freq 5.48000000 GHz</p> <p>Stop Freq 5.52000000 GHz</p> <p>CF Step 4.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> |
| <p>802.11n-HT20-Middle</p> |  <p>Agilent R T</p> <p>Ch Freq 5.6 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 5.60000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log</p> <p>10 dB/</p> <p>Offst</p> <p>1 dB</p> <p>Center 5.6 GHz Span 40 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 18.0011 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -12.787 kHz x dB Bandwidth 20.898 MHz</p> <p>Freq/Channel</p> <p>Center Freq 5.60000000 GHz</p> <p>Start Freq 5.58000000 GHz</p> <p>Stop Freq 5.62000000 GHz</p> <p>CF Step 4.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> |
| <p>802.11n-HT20-High</p> |  <p>Agilent R T</p> <p>Ch Freq 5.7 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 5.7 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log</p> <p>10 dB/</p> <p>Offst</p> <p>1 dB</p> <p>Center 5.7 GHz Span 40 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 18.0305 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error 8.245 kHz x dB Bandwidth 20.897 MHz</p> <p>Freq/Channel</p> <p>Center Freq 5.70000000 GHz</p> <p>Start Freq 5.68000000 GHz</p> <p>Stop Freq 5.72000000 GHz</p> <p>CF Step 4.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> |

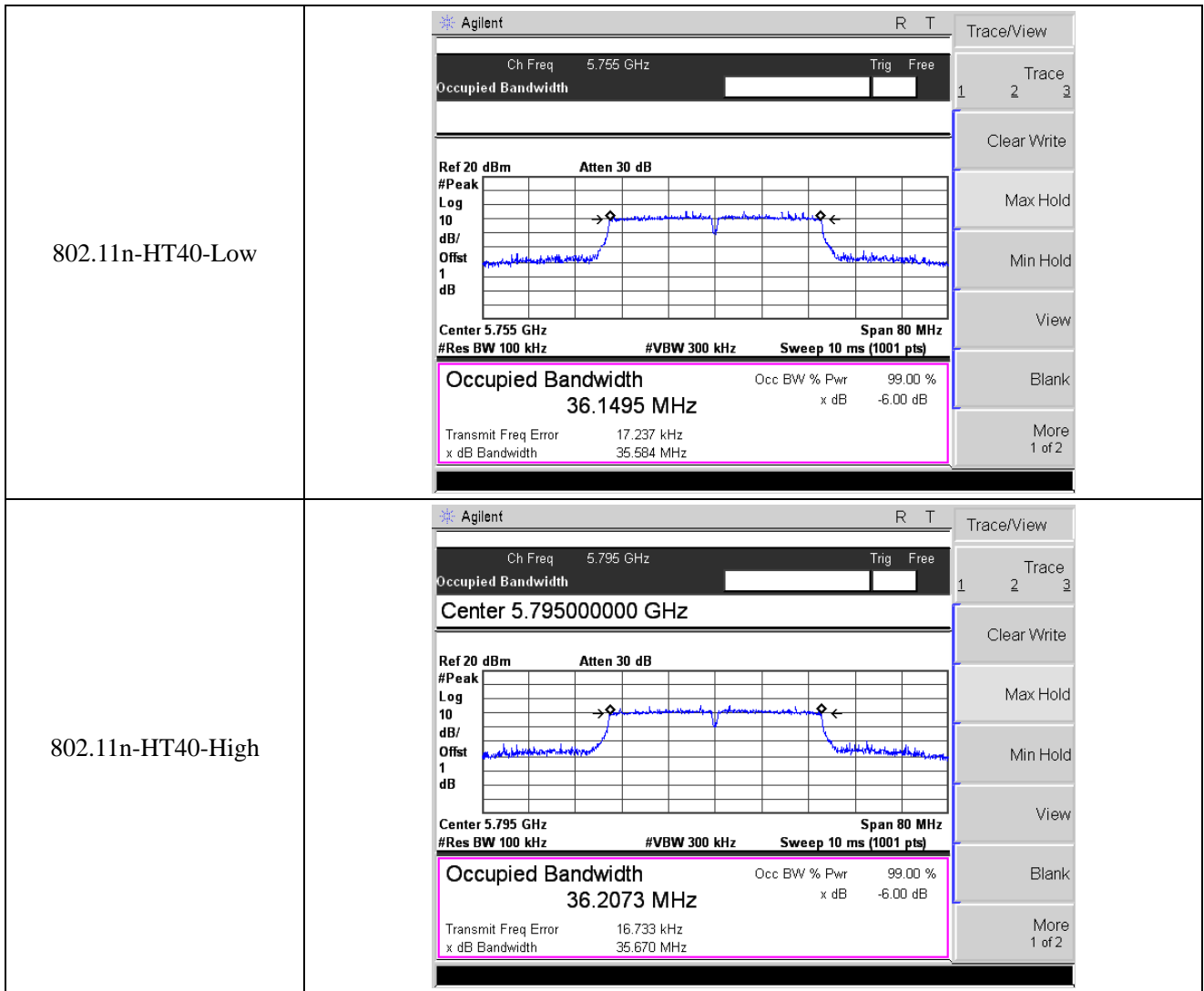
| | |
|-----------------------------|--|
| <p>802.11n-HT40-Low</p> | <p>Agilent R T</p> <p>Ch Freq 5.51 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 5.51000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log</p> <p>dB/</p> <p>Offst</p> <p>1</p> <p>dB</p> <p>Center 5.51 GHz Span 80 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 37.1439 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -94.270 kHz</p> <p>x dB Bandwidth 62.803 MHz</p> <p>Freq/Channel</p> <p>Center Freq 5.51000000 GHz</p> <p>Start Freq 5.47000000 GHz</p> <p>Stop Freq 5.55000000 GHz</p> <p>CF Step 8.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> |
| <p>802.11n-HT40- Middle</p> | <p>Agilent R T</p> <p>Ch Freq 5.59 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 5.59000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log</p> <p>dB/</p> <p>Offst</p> <p>1</p> <p>dB</p> <p>Center 5.59 GHz Span 80 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 36.8631 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error 24.404 kHz</p> <p>x dB Bandwidth 54.027 MHz</p> <p>Freq/Channel</p> <p>Center Freq 5.59000000 GHz</p> <p>Start Freq 5.55000000 GHz</p> <p>Stop Freq 5.63000000 GHz</p> <p>CF Step 8.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> |
| <p>802.11n-HT40-High</p> | <p>Agilent R T</p> <p>Ch Freq 5.67 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 5.67000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log</p> <p>dB/</p> <p>Offst</p> <p>1</p> <p>dB</p> <p>Center 5.67 GHz Span 80 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 36.8031 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error 115.632 kHz</p> <p>x dB Bandwidth 54.650 MHz</p> <p>Freq/Channel</p> <p>Center Freq 5.67000000 GHz</p> <p>Start Freq 5.63000000 GHz</p> <p>Stop Freq 5.71000000 GHz</p> <p>CF Step 8.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> |

5725-5850MHz

6 dB Bandwidth

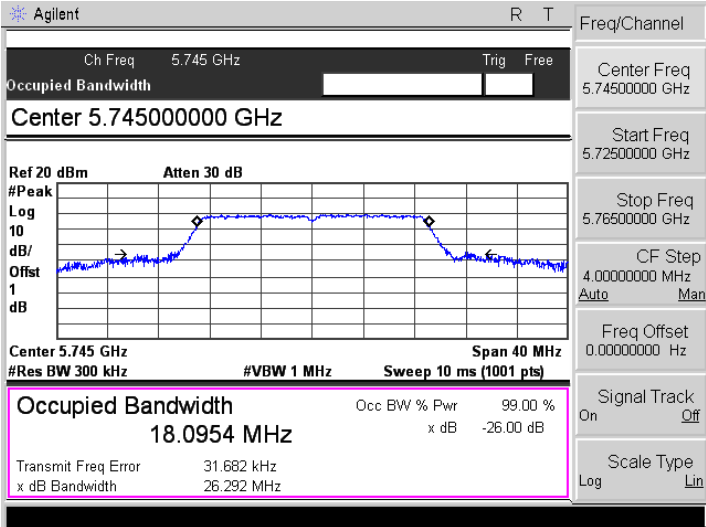
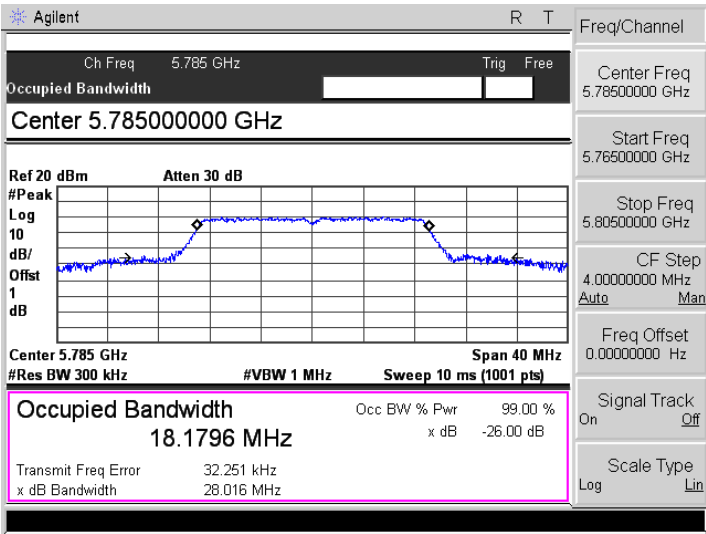
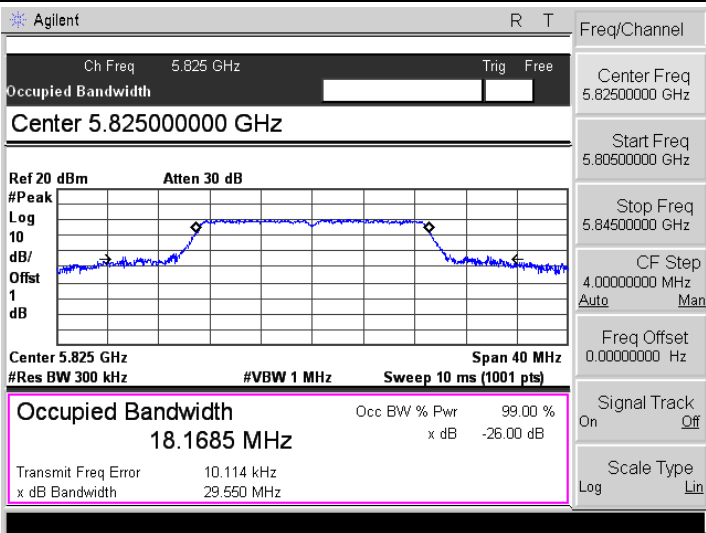
| | |
|-----------------------|---|
| <p>802.11a-Low</p> | <p>Agilent R T</p> <p>Ch Freq 5.745 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offset 1 dB</p> <p>Center 5.745 GHz Span 40 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 16.5623 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -2.049 kHz x dB Bandwidth 16.363 MHz</p> |
| <p>802.11a-Middle</p> | <p>Agilent R T</p> <p>Ch Freq 5.785 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 5.78500000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offset 1 dB</p> <p>Center 5.785 GHz Span 40 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 16.5609 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -851.095 Hz x dB Bandwidth 16.344 MHz</p> <p>Freq/Channel</p> <p>Center Freq 5.78500000 GHz</p> <p>Start Freq 5.76500000 GHz</p> <p>Stop Freq 5.80500000 GHz</p> <p>CF Step 4.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> |
| <p>802.11a-High</p> | <p>Agilent R T</p> <p>Ch Freq 5.825 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 5.82500000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offset 1 dB</p> <p>Center 5.825 GHz Span 40 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 16.5752 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -11.643 kHz x dB Bandwidth 16.360 MHz</p> <p>Freq/Channel</p> <p>Center Freq 5.82500000 GHz</p> <p>Start Freq 5.80500000 GHz</p> <p>Stop Freq 5.84500000 GHz</p> <p>CF Step 4.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> |

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|----------------------------|--|
| <p>802.11n-HT20-Low</p> | <p>Agilent R T</p> <p>Ch Freq 5.745 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 5.74500000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 1 dB</p> <p>Center 5.745 GHz Span 40 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 17.7044 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error 7.236 kHz x dB Bandwidth 17.601 MHz</p> <p>Freq/Channel</p> <p>Center Freq 5.74500000 GHz</p> <p>Start Freq 5.72500000 GHz</p> <p>Stop Freq 5.76500000 GHz</p> <p>CF Step 4.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> |
| <p>802.11n-HT20-Middle</p> | <p>Agilent R T</p> <p>Ch Freq 5.785 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 5.78500000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 1 dB</p> <p>Center 5.785 GHz Span 40 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 17.7386 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error 3.372 kHz x dB Bandwidth 17.619 MHz</p> <p>Freq/Channel</p> <p>Center Freq 5.78500000 GHz</p> <p>Start Freq 5.76500000 GHz</p> <p>Stop Freq 5.80500000 GHz</p> <p>CF Step 4.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> |
| <p>802.11n-HT20-High</p> | <p>Agilent R T</p> <p>Ch Freq 5.825 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 5.82500000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 1 dB</p> <p>Center 5.825 GHz Span 40 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 17.7212 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -1.573 kHz x dB Bandwidth 17.572 MHz</p> <p>Freq/Channel</p> <p>Center Freq 5.82500000 GHz</p> <p>Start Freq 5.80500000 GHz</p> <p>Stop Freq 5.84500000 GHz</p> <p>CF Step 4.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> |



99% Bandwidth

| | |
|-----------------------|--|
| <p>802.11a-Low</p> | |
| <p>802.11a-Middle</p> | |
| <p>802.11a-High</p> | |

| | |
|----------------------------|---|
| <p>802.11n-HT20-Low</p> |  <p>Agilent R T</p> <p>Ch Freq 5.745 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 5.74500000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log</p> <p>10</p> <p>dB/</p> <p>Offst</p> <p>1</p> <p>dB</p> <p>Center 5.745 GHz Span 40 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 18.0954 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 31.682 kHz</p> <p>x dB Bandwidth 26.292 MHz</p> <p>Freq/Channel</p> <p>Center Freq 5.74500000 GHz</p> <p>Start Freq 5.72500000 GHz</p> <p>Stop Freq 5.76500000 GHz</p> <p>CF Step 4.00000000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> |
| <p>802.11n-HT20-Middle</p> |  <p>Agilent R T</p> <p>Ch Freq 5.785 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 5.78500000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log</p> <p>10</p> <p>dB/</p> <p>Offst</p> <p>1</p> <p>dB</p> <p>Center 5.785 GHz Span 40 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 18.1796 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 32.251 kHz</p> <p>x dB Bandwidth 28.016 MHz</p> <p>Freq/Channel</p> <p>Center Freq 5.78500000 GHz</p> <p>Start Freq 5.76500000 GHz</p> <p>Stop Freq 5.80500000 GHz</p> <p>CF Step 4.00000000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> |
| <p>802.11n-HT20-High</p> |  <p>Agilent R T</p> <p>Ch Freq 5.825 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Center 5.82500000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log</p> <p>10</p> <p>dB/</p> <p>Offst</p> <p>1</p> <p>dB</p> <p>Center 5.825 GHz Span 40 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 18.1685 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB -26.00 dB</p> <p>Transmit Freq Error 10.114 kHz</p> <p>x dB Bandwidth 29.550 MHz</p> <p>Freq/Channel</p> <p>Center Freq 5.82500000 GHz</p> <p>Start Freq 5.80500000 GHz</p> <p>Stop Freq 5.84500000 GHz</p> <p>CF Step 4.00000000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> |

| | |
|--------------------------|--|
| <p>802.11n-HT40-Low</p> | <p>Agilent R T</p> <p>Ch Freq 5.755 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log 10 dB/Offset 1 dB</p> <p>Center 5.755 GHz Span 80 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 36.3807 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error 52.199 kHz</p> <p>x dB Bandwidth 47.178 MHz</p> <p>Trace/View</p> <p>1 2 3</p> <p>Trace</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p> |
| <p>802.11n-HT40-High</p> | <p>Agilent R T</p> <p>Ch Freq 5.795 GHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Peak</p> <p>Log 10 dB/Offset 1 dB</p> <p>Center 5.795 GHz Span 80 MHz</p> <p>#Res BW 300 kHz #VBW 1 MHz Sweep 10 ms (1001 pts)</p> <p>Occupied Bandwidth 36.4061 MHz</p> <p>Occ BW % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error 37.872 kHz</p> <p>x dB Bandwidth 55.475 MHz</p> <p>Freq/Channel</p> <p>Center Freq 5.79500000 GHz</p> <p>Start Freq 5.75500000 GHz</p> <p>Stop Freq 5.83500000 GHz</p> <p>CF Step 8.00000000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> |

APPENDIX C

Maximum Conducted Output Power

| U-NII-1:5150-5250MHz | | | |
|-----------------------------|------------------|---------------------|--------------|
| Test mode | Frequency MHz | Output Power dBm | Limit dBm |
| 802.11a | 5180 | 8.89 | 23.98 |
| | 5200 | 8.87 | 23.98 |
| | 5240 | 8.62 | 23.98 |
| 802.11n-HT20 | 5180 | 8.51 | 23.98 |
| | 5200 | 8.23 | 23.98 |
| | 5240 | 8.52 | 23.98 |
| 802.11n-HT40 | 5190 | 8.93 | 23.98 |
| | 5230 | 9.04 | 23.98 |

| U-NII-2A: 5250-5350MHz | | | |
|-------------------------------|------------------|---------------------|--------------|
| Test mode | Frequency MHz | Output Power dBm | Limit dBm |
| 802.11a | 5260 | 8.84 | 23.98 |
| | 5280 | 8.72 | 23.98 |
| | 5320 | 9.14 | 23.98 |
| 802.11n-HT20 | 5260 | 9.63 | 23.98 |
| | 5280 | 8.45 | 23.98 |
| | 5320 | 9.07 | 23.98 |
| 802.11n-HT40 | 5270 | 9.08 | 23.98 |
| | 5310 | 9.32 | 23.98 |

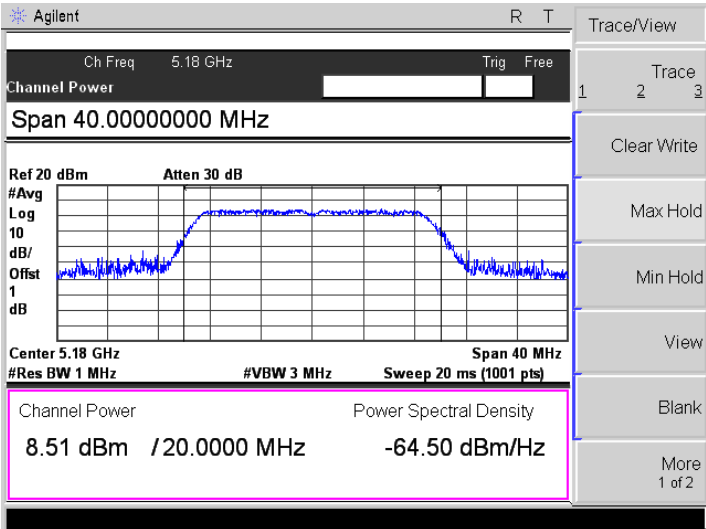
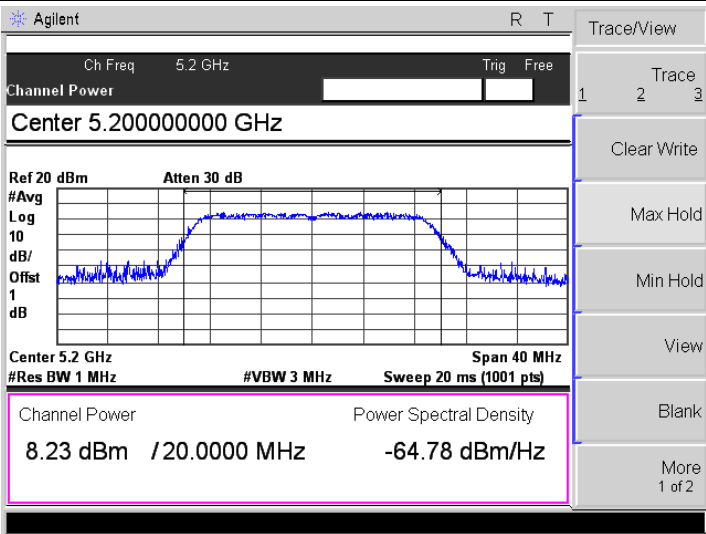
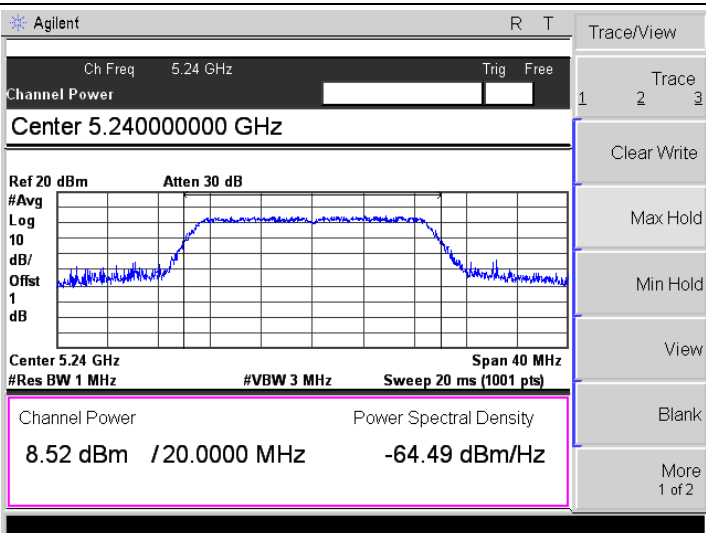
| U-NII-2C: 5470-5725MHz | | | |
|-------------------------------|------------------|---------------------|--------------|
| Test mode | Frequency MHz | Output Power dBm | Limit dBm |
| 802.11a | 5500 | 7.49 | 23.98 |
| | 5580 | 5.38 | 23.98 |
| | 5700 | 6.72 | 23.98 |
| 802.11n-HT20 | 5500 | 7.98 | 23.98 |
| | 5580 | 4.76 | 23.98 |
| | 5700 | 7.19 | 23.98 |
| 802.11n-HT40 | 5510 | 7.63 | 23.98 |
| | 5550 | 5.74 | 23.98 |
| | 5670 | 6.15 | 23.98 |

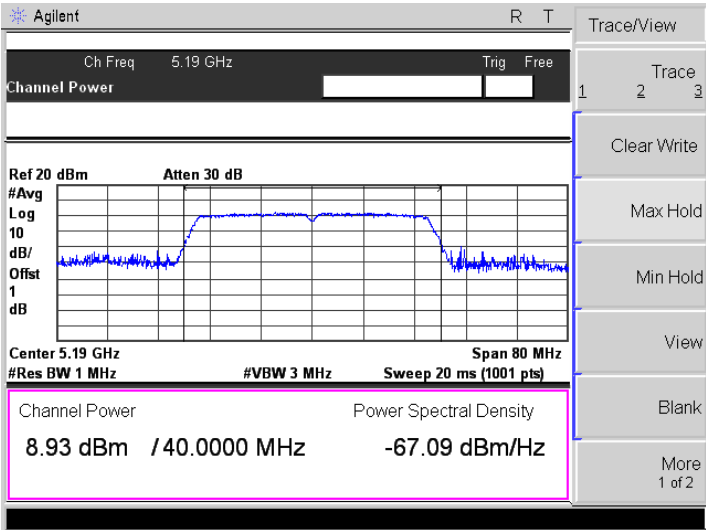
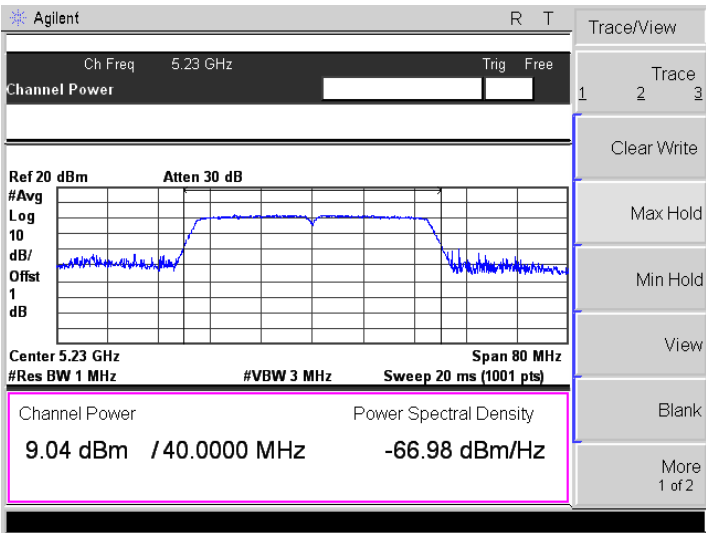
| U-NII-3: 5725-5850MHz | | | |
|------------------------------|------------------|---------------------|--------------|
| Test mode | Frequency MHz | Output Power dBm | Limit dBm |
| 802.11a | 5745 | 7.81 | 30.00 |
| | 5785 | 8.02 | 30.00 |
| | 5825 | 8.50 | 30.00 |
| 802.11n-HT20 | 5745 | 8.17 | 30.00 |
| | 5785 | 7.54 | 30.00 |
| | 5825 | 8.98 | 30.00 |
| 802.11n-HT40 | 5755 | 8.14 | 30.00 |
| | 5795 | 8.54 | 30.00 |

Note: the EUT does not support transmit power control (TPC) required.

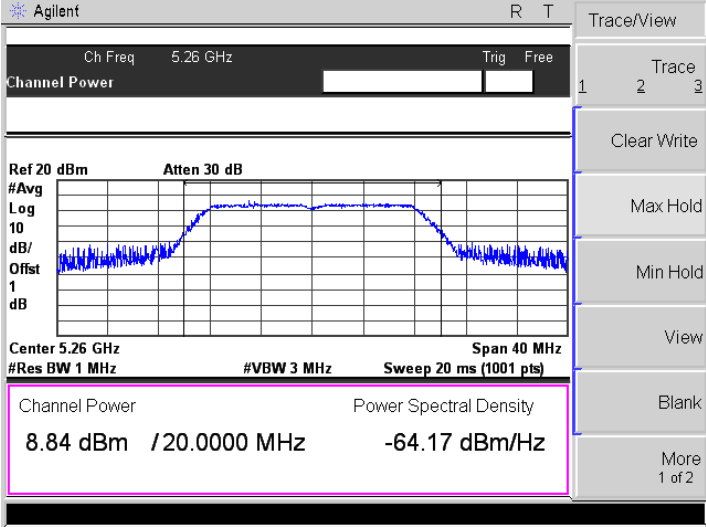
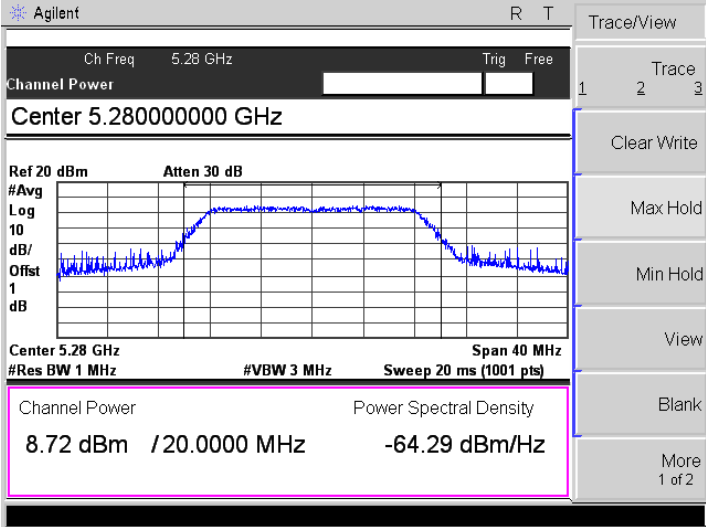
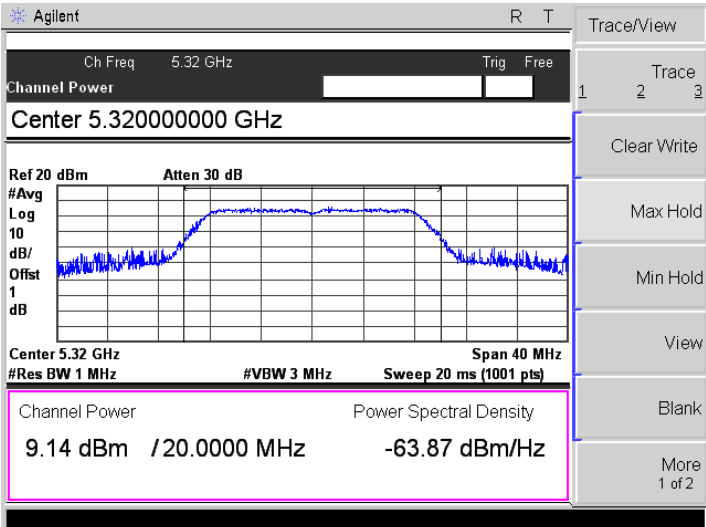
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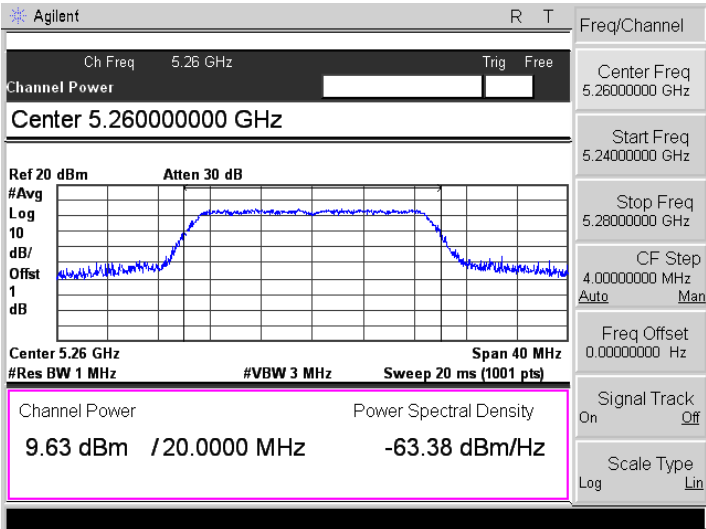
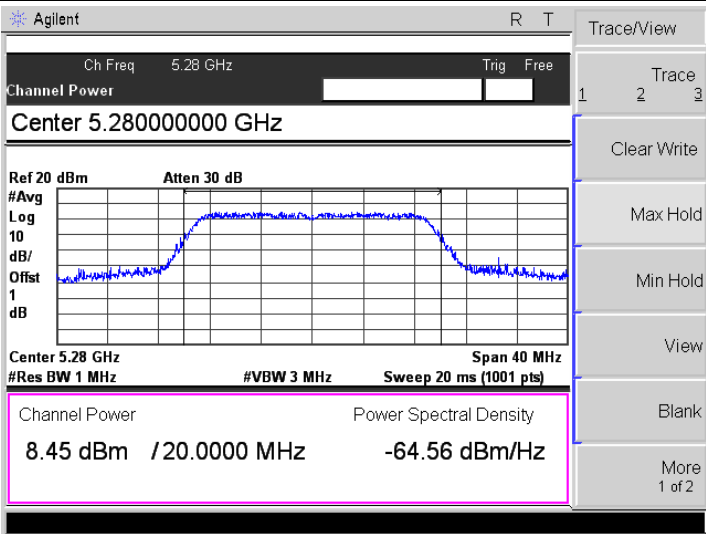
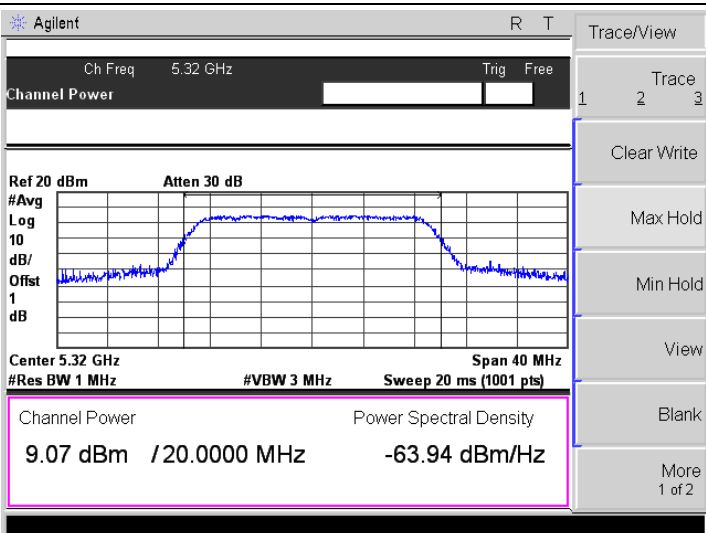
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| <p>802.11a-Low</p> | |
| <p>802.11a-Middle</p> | |
| <p>802.11a-High</p> | |

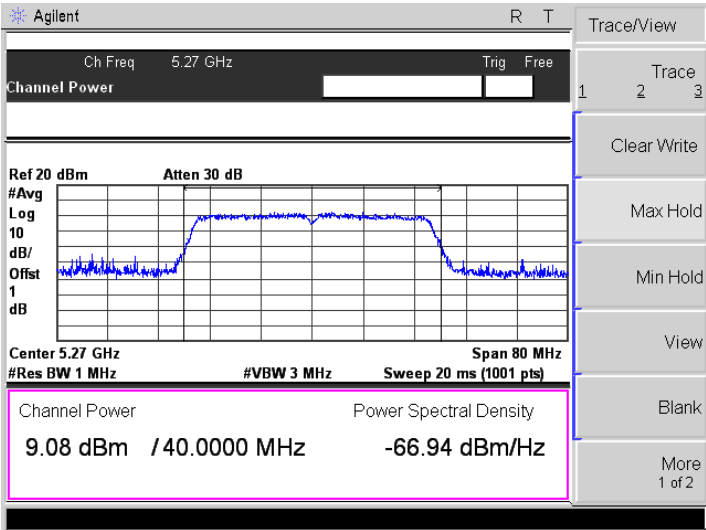
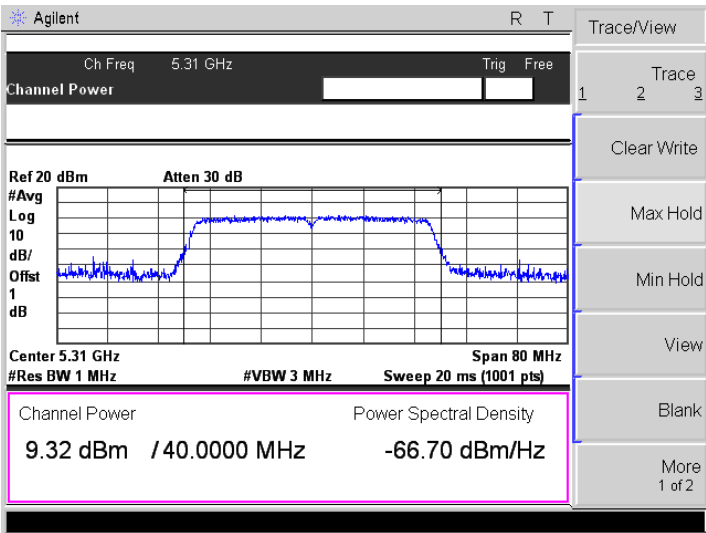
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|----------------------------|---|---------------|------------------------|------------------------|---------------|
| <p>802.11n-HT20-Low</p> |  <p>Agilent R T</p> <p>Ch Freq 5.18 GHz Trig Free</p> <p>Channel Power</p> <p>Span 40.00000000 MHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/Offset 1 dB</p> <p>Center 5.18 GHz Span 40 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <table border="1"> <tr> <td>Channel Power</td> <td>Power Spectral Density</td> </tr> <tr> <td>8.51 dBm / 20.0000 MHz</td> <td>-64.50 dBm/Hz</td> </tr> </table> <p>Trace/View</p> <p>1 2 3 Trace</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p> | Channel Power | Power Spectral Density | 8.51 dBm / 20.0000 MHz | -64.50 dBm/Hz |
| Channel Power | Power Spectral Density | | | | |
| 8.51 dBm / 20.0000 MHz | -64.50 dBm/Hz | | | | |
| <p>802.11n-HT20-Middle</p> |  <p>Agilent R T</p> <p>Ch Freq 5.2 GHz Trig Free</p> <p>Channel Power</p> <p>Center 5.20000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/Offset 1 dB</p> <p>Center 5.2 GHz Span 40 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <table border="1"> <tr> <td>Channel Power</td> <td>Power Spectral Density</td> </tr> <tr> <td>8.23 dBm / 20.0000 MHz</td> <td>-64.78 dBm/Hz</td> </tr> </table> <p>Trace/View</p> <p>1 2 3 Trace</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p> | Channel Power | Power Spectral Density | 8.23 dBm / 20.0000 MHz | -64.78 dBm/Hz |
| Channel Power | Power Spectral Density | | | | |
| 8.23 dBm / 20.0000 MHz | -64.78 dBm/Hz | | | | |
| <p>802.11n-HT20-High</p> |  <p>Agilent R T</p> <p>Ch Freq 5.24 GHz Trig Free</p> <p>Channel Power</p> <p>Center 5.24000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/Offset 1 dB</p> <p>Center 5.24 GHz Span 40 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <table border="1"> <tr> <td>Channel Power</td> <td>Power Spectral Density</td> </tr> <tr> <td>8.52 dBm / 20.0000 MHz</td> <td>-64.49 dBm/Hz</td> </tr> </table> <p>Trace/View</p> <p>1 2 3 Trace</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p> | Channel Power | Power Spectral Density | 8.52 dBm / 20.0000 MHz | -64.49 dBm/Hz |
| Channel Power | Power Spectral Density | | | | |
| 8.52 dBm / 20.0000 MHz | -64.49 dBm/Hz | | | | |

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| <p>802.11n-HT40-Low</p> |  <p>Agilent R T</p> <p>Ch Freq 5.19 GHz Trig Free</p> <p>Channel Power</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.19 GHz Span 80 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Channel Power Power Spectral Density</p> <p>8.93 dBm / 40.0000 MHz -67.09 dBm/Hz</p> <p>Trace/View</p> <p>Trace 1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p> |
| <p>802.11n-HT40-High</p> |  <p>Agilent R T</p> <p>Ch Freq 5.23 GHz Trig Free</p> <p>Channel Power</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.23 GHz Span 80 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Channel Power Power Spectral Density</p> <p>9.04 dBm / 40.0000 MHz -66.98 dBm/Hz</p> <p>Trace/View</p> <p>Trace 1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p> |

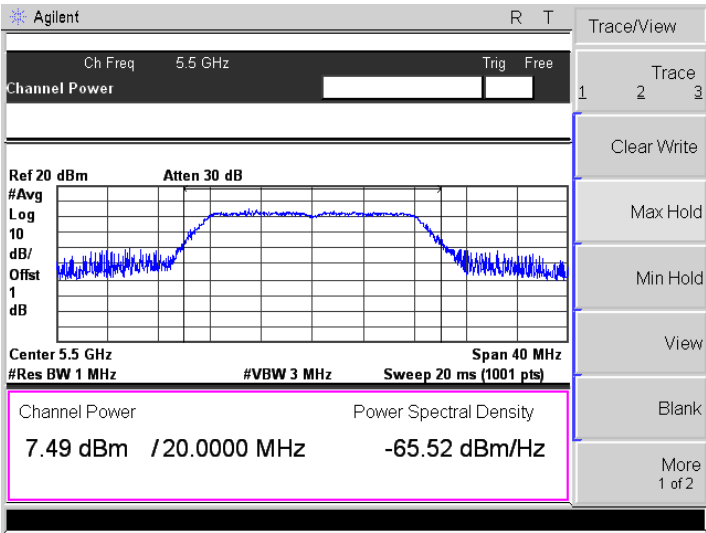
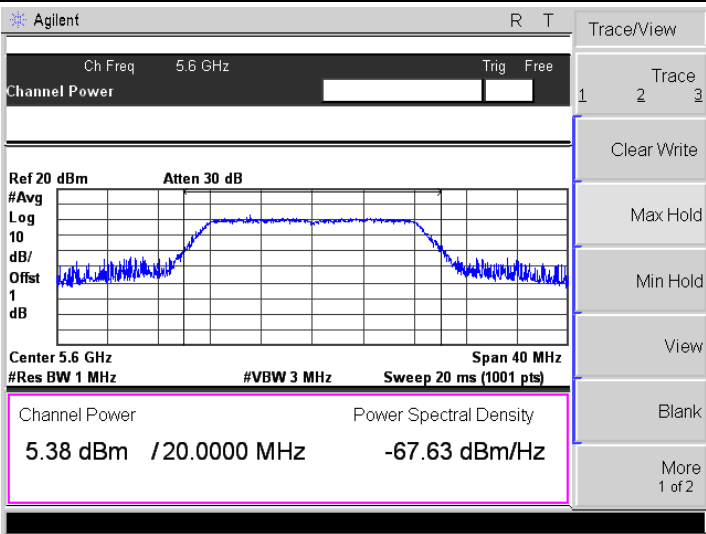
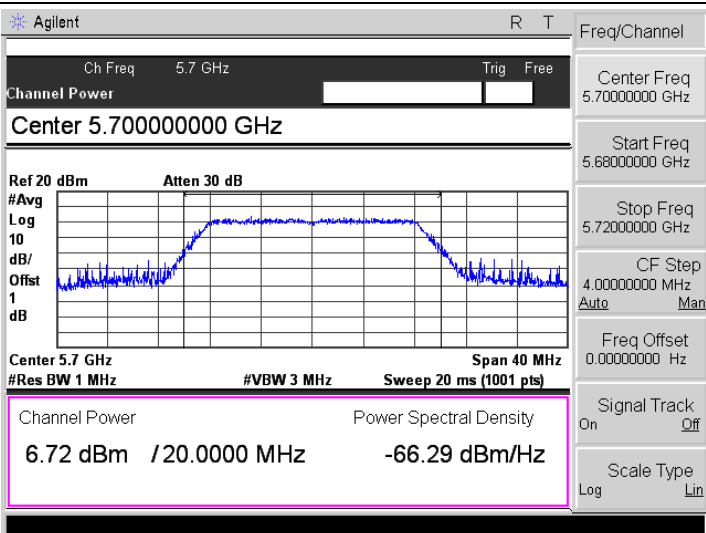
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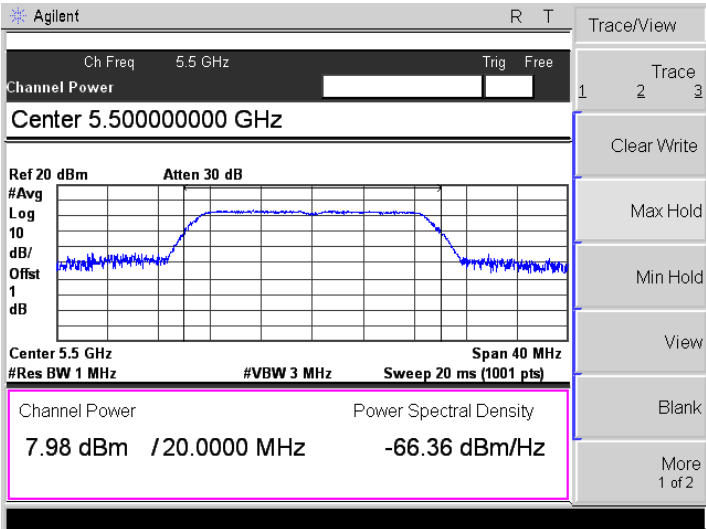
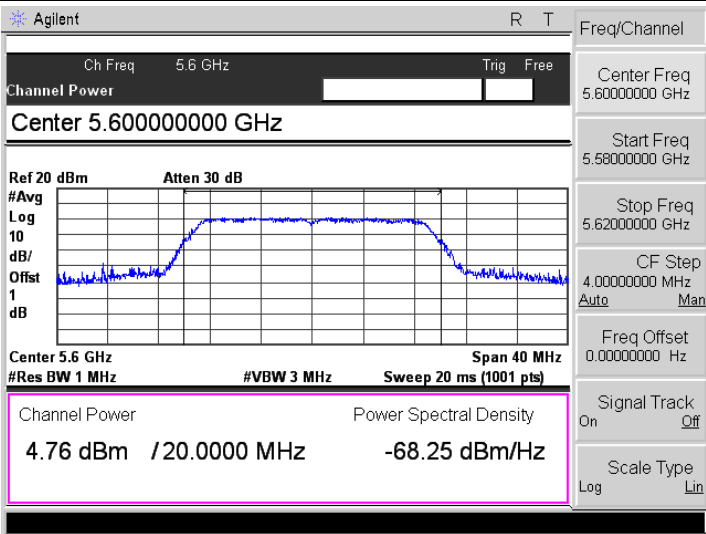
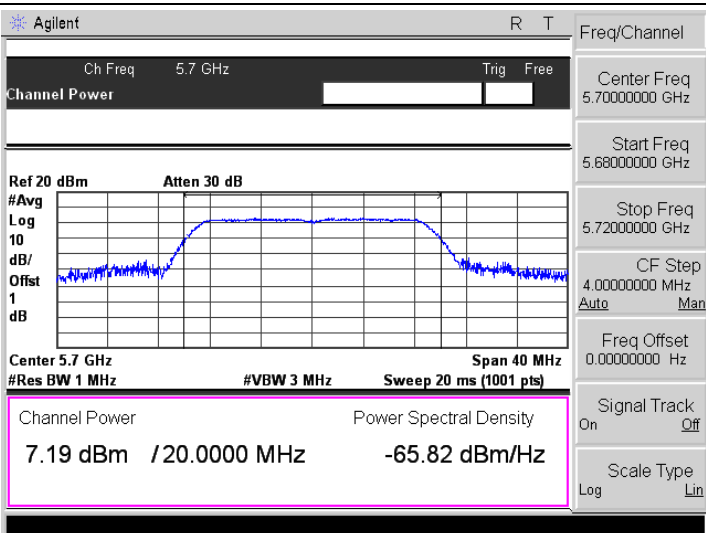
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| <p>802.11a-Low</p> |  <p>Agilent R T Trace/View</p> <p>Ch Freq 5.26 GHz Trig Free</p> <p>Channel Power</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/Offst 1 dB</p> <p>Center 5.26 GHz Span 40 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Channel Power Power Spectral Density</p> <p>8.84 dBm / 20.0000 MHz -64.17 dBm/Hz</p> <p>Trace 1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p> |
| <p>802.11a-Middle</p> |  <p>Agilent R T Trace/View</p> <p>Ch Freq 5.28 GHz Trig Free</p> <p>Channel Power</p> <p>Center 5.28000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/Offst 1 dB</p> <p>Center 5.28 GHz Span 40 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Channel Power Power Spectral Density</p> <p>8.72 dBm / 20.0000 MHz -64.29 dBm/Hz</p> <p>Trace 1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p> |
| <p>802.11a-High</p> |  <p>Agilent R T Trace/View</p> <p>Ch Freq 5.32 GHz Trig Free</p> <p>Channel Power</p> <p>Center 5.32000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/Offst 1 dB</p> <p>Center 5.32 GHz Span 40 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Channel Power Power Spectral Density</p> <p>9.14 dBm / 20.0000 MHz -63.87 dBm/Hz</p> <p>Trace 1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p> |

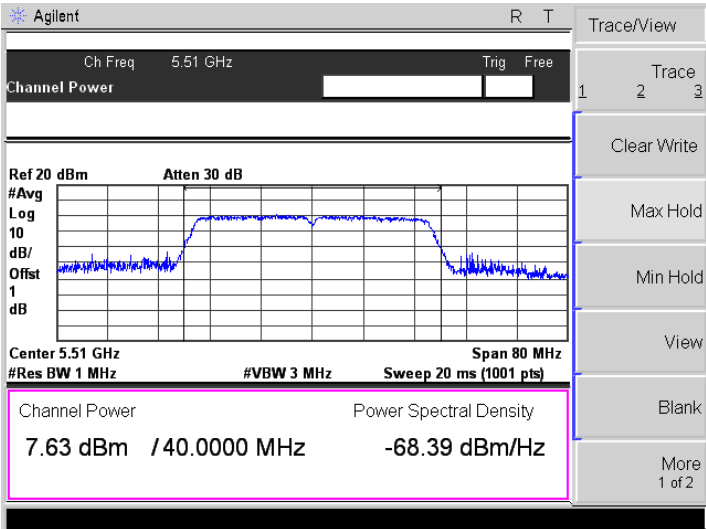
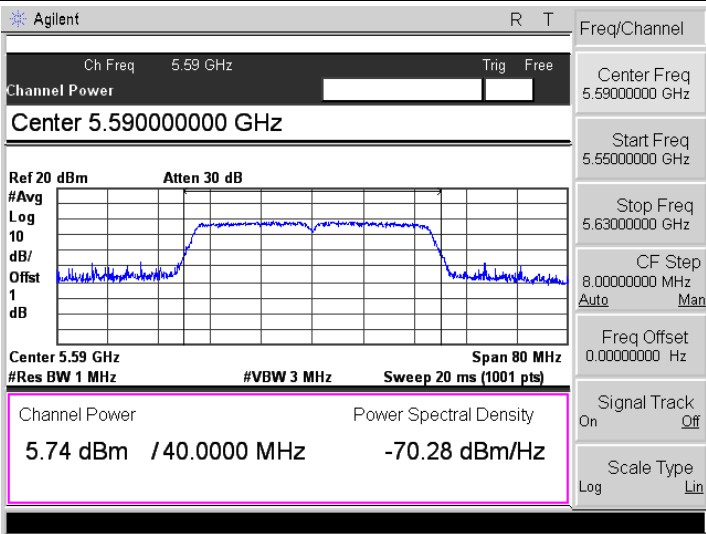
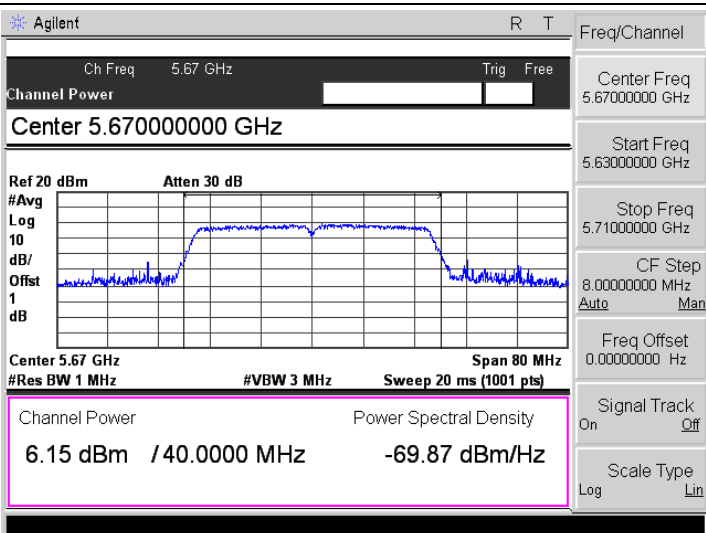
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| <p>802.11n-HT20-Low</p> |  <p>Agilent Channel Power measurement for 802.11n-HT20-Low. Center Freq: 5.26 GHz. Channel Power: 9.63 dBm / 20.0000 MHz. Power Spectral Density: -63.38 dBm/Hz.</p> |
| <p>802.11n-HT20-Middle</p> |  <p>Agilent Channel Power measurement for 802.11n-HT20-Middle. Center Freq: 5.28 GHz. Channel Power: 8.45 dBm / 20.0000 MHz. Power Spectral Density: -64.56 dBm/Hz.</p> |
| <p>802.11n-HT20-High</p> |  <p>Agilent Channel Power measurement for 802.11n-HT20-High. Center Freq: 5.32 GHz. Channel Power: 9.07 dBm / 20.0000 MHz. Power Spectral Density: -63.94 dBm/Hz.</p> |

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| <p>802.11n-HT40-Low</p> |  <p>Agilent R T</p> <p>Ch Freq 5.27 GHz Trig Free</p> <p>Channel Power</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/Offset 1 dB</p> <p>Center 5.27 GHz Span 80 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <table border="1"> <tr> <td>Channel Power</td> <td>Power Spectral Density</td> </tr> <tr> <td>9.08 dBm / 40.0000 MHz</td> <td>-66.94 dBm/Hz</td> </tr> </table> <p>Trace/View</p> <p>1 2 3</p> <p>Trace</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p> | Channel Power | Power Spectral Density | 9.08 dBm / 40.0000 MHz | -66.94 dBm/Hz |
| Channel Power | Power Spectral Density | | | | |
| 9.08 dBm / 40.0000 MHz | -66.94 dBm/Hz | | | | |
| <p>802.11n-HT40-High</p> |  <p>Agilent R T</p> <p>Ch Freq 5.31 GHz Trig Free</p> <p>Channel Power</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/Offset 1 dB</p> <p>Center 5.31 GHz Span 80 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <table border="1"> <tr> <td>Channel Power</td> <td>Power Spectral Density</td> </tr> <tr> <td>9.32 dBm / 40.0000 MHz</td> <td>-66.70 dBm/Hz</td> </tr> </table> <p>Trace/View</p> <p>1 2 3</p> <p>Trace</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p> | Channel Power | Power Spectral Density | 9.32 dBm / 40.0000 MHz | -66.70 dBm/Hz |
| Channel Power | Power Spectral Density | | | | |
| 9.32 dBm / 40.0000 MHz | -66.70 dBm/Hz | | | | |

5470-5725MHz

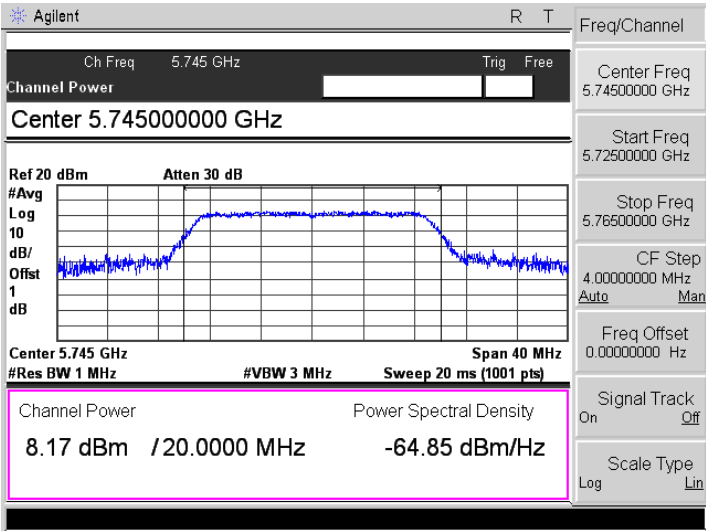
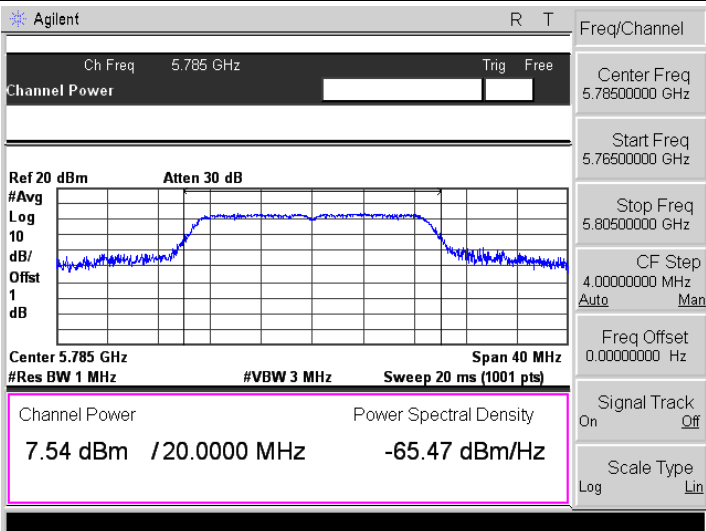
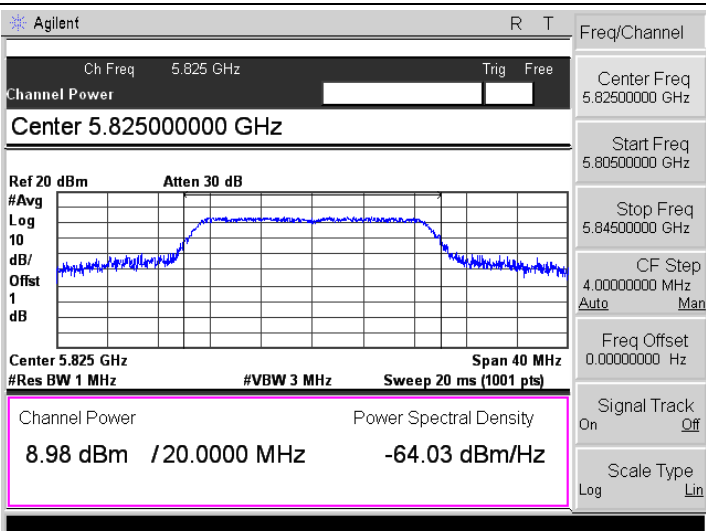
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| <p>802.11a-Low</p> |  |
| <p>802.11a-Middle</p> |  |
| <p>802.11a-High</p> |  |

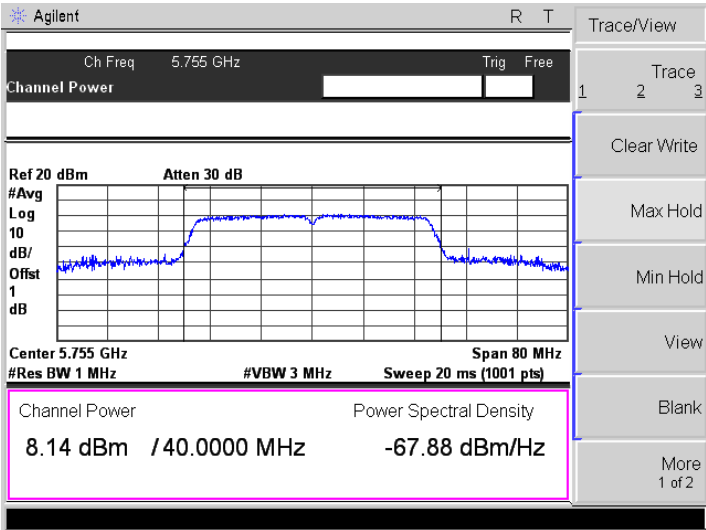
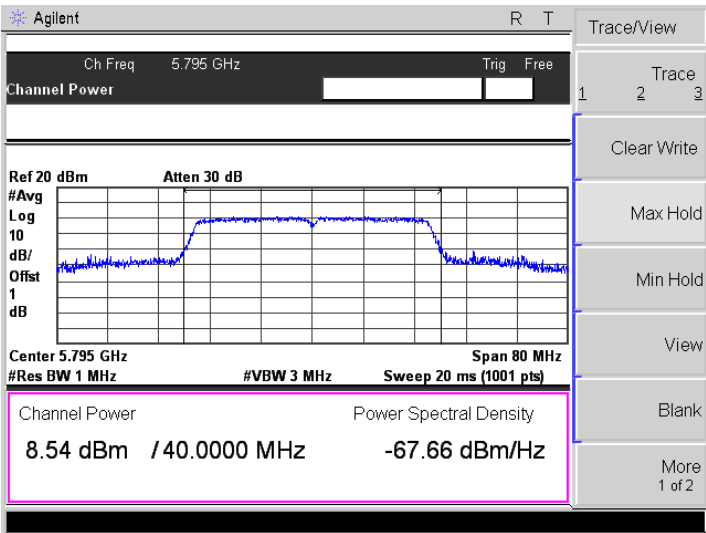
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|----------------------------|---|
| <p>802.11n-HT20-Low</p> |  <p>Agilent R T</p> <p>Ch Freq 5.5 GHz Trig Free</p> <p>Channel Power</p> <p>Center 5.50000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.5 GHz Span 40 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Channel Power Power Spectral Density</p> <p>7.98 dBm / 20.0000 MHz -66.36 dBm/Hz</p> <p>Trace/View</p> <p>1 2 3</p> <p>Trace</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p> |
| <p>802.11n-HT20-Middle</p> |  <p>Agilent R T</p> <p>Ch Freq 5.6 GHz Trig Free</p> <p>Channel Power</p> <p>Center 5.60000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.6 GHz Span 40 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Channel Power Power Spectral Density</p> <p>4.76 dBm / 20.0000 MHz -68.25 dBm/Hz</p> <p>Freq/Channel</p> <p>Center Freq 5.60000000 GHz</p> <p>Start Freq 5.58000000 GHz</p> <p>Stop Freq 5.62000000 GHz</p> <p>CF Step 4.00000000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> |
| <p>802.11n-HT20-High</p> |  <p>Agilent R T</p> <p>Ch Freq 5.7 GHz Trig Free</p> <p>Channel Power</p> <p>Center 5.7 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.7 GHz Span 40 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Channel Power Power Spectral Density</p> <p>7.19 dBm / 20.0000 MHz -65.82 dBm/Hz</p> <p>Freq/Channel</p> <p>Center Freq 5.70000000 GHz</p> <p>Start Freq 5.68000000 GHz</p> <p>Stop Freq 5.72000000 GHz</p> <p>CF Step 4.00000000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> |

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|-----------------------------|--|---------------|------------------------|------------------------|---------------|
| <p>802.11n-HT40-Low</p> |  <p>Agilent R T</p> <p>Ch Freq 5.51 GHz Trig Free</p> <p>Channel Power</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.51 GHz Span 80 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <table border="1"> <tr> <td>Channel Power</td> <td>Power Spectral Density</td> </tr> <tr> <td>7.63 dBm / 40.0000 MHz</td> <td>-68.39 dBm/Hz</td> </tr> </table> <p>Trace/View</p> <p>1 2 3</p> <p>Trace</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p> | Channel Power | Power Spectral Density | 7.63 dBm / 40.0000 MHz | -68.39 dBm/Hz |
| Channel Power | Power Spectral Density | | | | |
| 7.63 dBm / 40.0000 MHz | -68.39 dBm/Hz | | | | |
| <p>802.11n-HT40- Middle</p> |  <p>Agilent R T</p> <p>Ch Freq 5.59 GHz Trig Free</p> <p>Channel Power</p> <p>Center 5.59000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.59 GHz Span 80 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <table border="1"> <tr> <td>Channel Power</td> <td>Power Spectral Density</td> </tr> <tr> <td>5.74 dBm / 40.0000 MHz</td> <td>-70.28 dBm/Hz</td> </tr> </table> <p>Freq/Channel</p> <p>Center Freq 5.59000000 GHz</p> <p>Start Freq 5.55000000 GHz</p> <p>Stop Freq 5.63000000 GHz</p> <p>CF Step 8.00000000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> | Channel Power | Power Spectral Density | 5.74 dBm / 40.0000 MHz | -70.28 dBm/Hz |
| Channel Power | Power Spectral Density | | | | |
| 5.74 dBm / 40.0000 MHz | -70.28 dBm/Hz | | | | |
| <p>802.11n-HT40-High</p> |  <p>Agilent R T</p> <p>Ch Freq 5.67 GHz Trig Free</p> <p>Channel Power</p> <p>Center 5.67000000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.67 GHz Span 80 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <table border="1"> <tr> <td>Channel Power</td> <td>Power Spectral Density</td> </tr> <tr> <td>6.15 dBm / 40.0000 MHz</td> <td>-69.87 dBm/Hz</td> </tr> </table> <p>Freq/Channel</p> <p>Center Freq 5.67000000 GHz</p> <p>Start Freq 5.63000000 GHz</p> <p>Stop Freq 5.71000000 GHz</p> <p>CF Step 8.00000000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> | Channel Power | Power Spectral Density | 6.15 dBm / 40.0000 MHz | -69.87 dBm/Hz |
| Channel Power | Power Spectral Density | | | | |
| 6.15 dBm / 40.0000 MHz | -69.87 dBm/Hz | | | | |

5725-5850MHz

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| <p>802.11a-Low</p> | <p>Agilent R T</p> <p>Ch Freq 5.745 GHz Trig Free</p> <p>Channel Power</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.745 GHz Span 40 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Channel Power Power Spectral Density</p> <p>7.81 dBm / 20.0000 MHz -65.20 dBm/Hz</p> <p>Trace/View</p> <p>Trace 1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p> |
| <p>802.11a-Middle</p> | <p>Agilent R T</p> <p>Ch Freq 5.785 GHz Trig Free</p> <p>Channel Power</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.785 GHz Span 40 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Channel Power Power Spectral Density</p> <p>8.02 dBm / 20.0000 MHz -64.99 dBm/Hz</p> <p>Freq/Channel</p> <p>Center Freq 5.78500000 GHz</p> <p>Start Freq 5.76500000 GHz</p> <p>Stop Freq 5.80500000 GHz</p> <p>CF Step 4.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> |
| <p>802.11a-High</p> | <p>Agilent R T</p> <p>Ch Freq 5.825 GHz Trig Free</p> <p>Channel Power</p> <p>Center 5.82500000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.825 GHz Span 40 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Channel Power Power Spectral Density</p> <p>8.50 dBm / 20.0000 MHz -64.51 dBm/Hz</p> <p>Freq/Channel</p> <p>Center Freq 5.82500000 GHz</p> <p>Start Freq 5.80500000 GHz</p> <p>Stop Freq 5.84500000 GHz</p> <p>CF Step 4.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> |

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|----------------------------|--|
| <p>802.11n-HT20-Low</p> |  <p>Agilent R T</p> <p>Ch Freq 5.745 GHz Trig Free</p> <p>Channel Power</p> <p>Center 5.74500000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/Offst 1 dB</p> <p>Center 5.745 GHz Span 40 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Channel Power Power Spectral Density</p> <p>8.17 dBm / 20.0000 MHz -64.85 dBm/Hz</p> <p>Freq/Channel</p> <p>Center Freq 5.74500000 GHz</p> <p>Start Freq 5.72500000 GHz</p> <p>Stop Freq 5.76500000 GHz</p> <p>CF Step 4.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> |
| <p>802.11n-HT20-Middle</p> |  <p>Agilent R T</p> <p>Ch Freq 5.785 GHz Trig Free</p> <p>Channel Power</p> <p>Center 5.78500000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/Offst 1 dB</p> <p>Center 5.785 GHz Span 40 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Channel Power Power Spectral Density</p> <p>7.54 dBm / 20.0000 MHz -65.47 dBm/Hz</p> <p>Freq/Channel</p> <p>Center Freq 5.78500000 GHz</p> <p>Start Freq 5.76500000 GHz</p> <p>Stop Freq 5.80500000 GHz</p> <p>CF Step 4.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> |
| <p>802.11n-HT20-High</p> |  <p>Agilent R T</p> <p>Ch Freq 5.825 GHz Trig Free</p> <p>Channel Power</p> <p>Center 5.82500000 GHz</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/Offst 1 dB</p> <p>Center 5.825 GHz Span 40 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Channel Power Power Spectral Density</p> <p>8.98 dBm / 20.0000 MHz -64.03 dBm/Hz</p> <p>Freq/Channel</p> <p>Center Freq 5.82500000 GHz</p> <p>Start Freq 5.80500000 GHz</p> <p>Stop Freq 5.84500000 GHz</p> <p>CF Step 4.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Scale Type Log Lin</p> |

| | |
|--------------------------|---|
| <p>802.11n-HT40-Low</p> |  <p>Agilent R T</p> <p>Ch Freq 5.755 GHz Trig Free</p> <p>Channel Power</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.755 GHz Span 80 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Channel Power Power Spectral Density</p> <p>8.14 dBm / 40.0000 MHz -67.88 dBm/Hz</p> <p>Trace/View</p> <p>Trace 1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p> |
| <p>802.11n-HT40-High</p> |  <p>Agilent R T</p> <p>Ch Freq 5.795 GHz Trig Free</p> <p>Channel Power</p> <p>Ref 20 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 1 dB</p> <p>Center 5.795 GHz Span 80 MHz</p> <p>#Res BW 1 MHz #VBW 3 MHz Sweep 20 ms (1001 pts)</p> <p>Channel Power Power Spectral Density</p> <p>8.54 dBm / 40.0000 MHz -67.66 dBm/Hz</p> <p>Trace/View</p> <p>Trace 1 2 3</p> <p>Clear Write</p> <p>Max Hold</p> <p>Min Hold</p> <p>View</p> <p>Blank</p> <p>More 1 of 2</p> |

APPENDIX D

Frequency Stability

| U-NII-1:5150-5250MHz worst case at 802.11a middle channel | | | | |
|--|------------|-----------|--------------|-----------|
| Voltage(%) | Power(VDC) | TEMP(°C) | Freq.Dev(Hz) | Deviation |
| 100% | 5.0 | -30 | 1138 | 0.2189 |
| 100% | | -20 | 1130 | 0.2174 |
| 100% | | -10 | 1137 | 0.2186 |
| 100% | | 0 | 1130 | 0.2174 |
| 100% | | +10 | 1137 | 0.2187 |
| 100% | | +20 | 1139 | 0.2191 |
| 100% | | +30 | 1132 | 0.2176 |
| 100% | | +40 | 1139 | 0.2190 |
| 100% | | +50 | 1130 | 0.2173 |
| Low Battery power | | 5.50 | +20 | 1131 |
| High Battery power | 4.50 | +20 | 1136 | 0.2185 |

| U-NII-2A: 5250-5350MHz worst case at 802.11a middle channel | | | | |
|--|------------|-----------|--------------|-----------|
| Voltage(%) | Power(VDC) | TEMP(°C) | Freq.Dev(Hz) | Deviation |
| 100% | 5.0 | -30 | 1136 | 0.2152 |
| 100% | | -20 | 1132 | 0.2144 |
| 100% | | -10 | 1138 | 0.2156 |
| 100% | | 0 | 1138 | 0.2155 |
| 100% | | +10 | 1135 | 0.2149 |
| 100% | | +20 | 1133 | 0.2146 |
| 100% | | +30 | 1135 | 0.2150 |
| 100% | | +40 | 1138 | 0.2155 |
| 100% | | +50 | 1139 | 0.2158 |
| Low Battery power | | 5.50 | +20 | 1134 |
| High Battery power | 4.50 | +20 | 1134 | 0.2148 |

| U-NII-2C: 5470-5725MHz worst case at 802.11a middle channel | | | | |
|--|------------|-----------|--------------|-----------|
| Voltage(%) | Power(VDC) | TEMP(°C) | Freq.Dev(Hz) | Deviation |
| 100% | 5.0 | -30 | 1137 | 0.2031 |
| 100% | | -20 | 1131 | 0.2020 |
| 100% | | -10 | 1138 | 0.2032 |
| 100% | | 0 | 1135 | 0.2027 |
| 100% | | +10 | 1136 | 0.2028 |
| 100% | | +20 | 1138 | 0.2032 |
| 100% | | +30 | 1133 | 0.2024 |
| 100% | | +40 | 1136 | 0.2029 |
| 100% | | +50 | 1137 | 0.2030 |
| Low Battery power | | 5.50 | +20 | 1139 |
| High Battery power | 4.50 | +20 | 1138 | 0.2033 |

| U-NII-3:5725-5850MHz worst case at 802.11a middle channel | | | | |
|--|------------|-----------|--------------|-----------|
| Voltage(%) | Power(VDC) | TEMP(°C) | Freq.Dev(Hz) | Deviation |
| 100% | 5.0 | -30 | 1132 | 0.1957 |
| 100% | | -20 | 1135 | 0.1962 |
| 100% | | -10 | 1136 | 0.1964 |
| 100% | | 0 | 1138 | 0.1967 |
| 100% | | +10 | 1134 | 0.1960 |
| 100% | | +20 | 1132 | 0.1957 |
| 100% | | +30 | 1131 | 0.1955 |
| 100% | | +40 | 1138 | 0.1967 |
| 100% | | +50 | 1130 | 0.1954 |
| Low Battery power | | 5.50 | +20 | 1135 |
| High Battery power | 4.50 | +20 | 1138 | 0.1967 |

APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

******* END OF REPORT *******