# TEST REPORT

| | |
|---|---|
| **Applicant:** | FCC: Magtek Incorporated<br>IC: MagTek Inc |
| **Address of Applicant:** | FCC: 1710 Apollo Court, seal beach, California 90740, United States<br>IC: 1710 Apollo Court Seal Beach CA 90740 United States |
| **Manufacturer:** | FCC: Magtek Incorporated<br>IC: MagTek Inc |
| **Address of Manufacturer:** | FCC: 1710 Apollo Court, seal beach, California 90740, United States<br>IC: 1710 Apollo Court Seal Beach CA 90740 United States |

**Equipment Under Test (EUT)**

| | |
|---|---|
| Product Name: | DynaGlass |
| Model No.: | 40000102, 40000101 |
| Trade Mark: | MAGTEK |
| **FCC ID:** | U73-40000102 |
| **IC:** | 23169-40000102 |
| **Applicable standards:** | FCC CFR Title 47 Part 15 Subpart E Section 15.407<br>RSS-Gen Issue 5<br>RSS-247 Issue 2 |
| **Date of sample receipt:** | July 07, 2020 |
| **Date of Test:** | July 08, 2020-August 31, 2020 |
| **Date of report issued:** | August 31, 2020 |
| **Test Result :** | PASS * |

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

**Robinson Lo**
**Laboratory Manager**

# 2 Version

| Version No. | Date | Description |
|---|---|---|
| *00* | *August 31, 2020* | *Original* |
| | | |
| | | |
| | | |
| | | |

***Prepared By:***  ***Date:*** *August 31, 2020*

***Project Engineer***

***Check By:***  ***Date:*** *August 31, 2020*

***Reviewer***

# 3 Contents

Page

# 4 Test Summary

| Test Item | Section | Result |
|---|---|---|
| Antenna requirement | FCC part 15.203 & RSS-Gen 8.3 | Pass |
| AC Power Line Conducted Emission | FCC part 15.207 & RSS-Gen 8.8 | Pass |
| Conducted Peak Output Power | FCC part 15.407(a)(3) & RSS-247 6.2.4.1 | Pass |
| Channel Bandwidth and 99% Occupied Bandwidth | FCC part 15.407(e) & RSS-247 6.2.4.1 | Pass |
| Power Spectral Density | FCC part 15.407(a)(3) & RSS-247 6.2.4.1 | Pass |
| Band Edge | FCC part 15.407(b)(4)<br>RSS-Gen 8.10 & RSS-Gen | Pass |
| Spurious Emission | FCC part 15.205/15.209/15.407(b)(4)<br>RSS-247 6.2.4.2 & RSS-Gen 8.9 | Pass |
| Frequency Stability | FCC part 15.407(g) & RSS-Gen 8.11 | Pass |

*Remarks：*

1. *Pass: The EUT complies with the essential requirements in the standard.*
2. *Test according to ANSI C63.10:2013.*

## 4.1 Measurement Uncertainty

| Test Item | Frequency Range | Measurement Uncertainty | Notes |
|---|---|---|---|
| Radiated Emission | 30MHz-200MHz | 3.8039dB | (1) |
| Radiated Emission | 200MHz-1GHz | 3.9679dB | (1) |
| Radiated Emission | 1GHz-18GHz | 4.29dB | (1) |
| Radiated Emission | 18GHz-40GHz | 3.30dB | (1) |
| AC Power Line Conducted Emission | 0.15MHz ~ 30MHz | 3.44dB | (1) |
| Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%. | | | |

# 5 General Information

## 5.1 General Description of EUT

| | |
|---|---|
| Product Name: | DynaGlass |
| Model No.: | 40000102, 40000101 |
| Test Model No: | 40000102 |
| Remark: All above models are identical in the same PCB layout, interior structure and electrical circuits. The differences are appearance color and model name for commercial purpose. | |
| S/N: | B90A998 |
| Hardware Version: | DynaGlass_AND_V040 DynaGlass_PAY_V040 |
| Software Version: | Android:0.9.05; Max32550-LCS+:1.0.0 |
| Test sample(s) ID: | GTS202007000071-1 |
| Sample(s) Status: | Engineer sample |
| Operation Frequency: | 802.11a/802.11n(HT20): 5745MHz ~ 5825MHz |
| Channel numbers: | 5 |
| Channel bandwidth: | 20MHz |
| Modulation technology: | Orthogonal Frequency Division Multiplexing (OFDM) |
| Antenna Type: | Integral Antenna |
| Antenna gain: | 1.9dBi(declare by applicant) |
| Power supply: | DC 5V<br>or<br>DC 7.4V 1850mAh 13.69Wh by Li-ion battery |

| Operation Frequency each of channel | | | | | | | |
|---|---|---|---|---|---|---|---|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 149 | 5745MHz | 151 | 5755MHz | 153 | 5765MHz | 155 | 5775MHz |
| 157 | 5785MHz | 159 | 5795MHz | 161 | 5805MHz | 163 | 5815MHz |
| 165 | 5825MHz | | | | | | |

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Test channel | Frequency (MHz) | | |
|---|---|---|---|
| | 802.11a/n(HT20) | | |
| Lowest channel | 5745 | | |
| Middle channel | 5785 | | |
| Highest channel | 5825 | | |

## 5.2 Test mode

| | |
|---|---|
| Transmitting mode | Keep the EUT in continuously transmitting mode |

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

| Mode | Data rate |
|---|---|
| 802.11a | 6Mbps |
| 802.11n(HT20) | 6.5Mbps |

## 5.3 Description of Support Units

| Manufacturer | Description | Model | Serial Number |
|---|---|---|---|
| Lenovo | Notebook PC | E40-80 | N/A |
| Apple | PC | A1278 | C1MN99ERDTY3 |

## 5.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **FCC —Registration No.: 381383**

Global United Technology Services Co., Ltd., Shenzhen 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 files. Registration 381383.

● **IC —Registration No.: 9079A**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A.

● **CNAS (No. CNAS L5775)**

CNAS has accredited Global United Technology Services Co., Ltd., to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

## 5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480

Fax: 0755-27798960

# 6 Test Instruments list

| Radiated Emission: | | | | | | |
|---|---|---|---|---|---|---|
| **Item** | **Test Equipment** | **Manufacturer** | **Model No.** | **Inventory No.** | **Cal.Date (mm-dd-yy)** | **Cal.Due date (mm-dd-yy)** |
| 1 | 3m Semi- Anechoic Chamber | ZhongYu Electron | 9.2(L)*6.2(W)* 6.4(H) | GTS250 | July. 02 2020 | July. 01 2025 |
| 2 | Control Room | ZhongYu Electron | 6.2(L)*2.5(W)* 2.4(H) | GTS251 | N/A | N/A |
| 3 | EMI Test Receiver | Rohde & Schwarz | ESU26 | GTS203 | June. 25 2020 | June. 24 2021 |
| 4 | BiConiLog Antenna | SCHWARZBECK MESS-ELEKTRONIK | VULB9163 | GTS214 | June. 25 2020 | June. 24 2021 |
| 5 | Double -ridged waveguide horn | SCHWARZBECK MESS-ELEKTRONIK | BBHA 9120 D | GTS208 | June. 25 2020 | June. 24 2021 |
| 6 | Horn Antenna | ETS-LINDGREN | 3160 | GTS217 | June. 25 2020 | June. 24 2021 |
| 7 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A |
| 8 | Coaxial Cable | GTS | N/A | GTS213 | June. 25 2020 | June. 24 2021 |
| 9 | Coaxial Cable | GTS | N/A | GTS211 | June. 25 2020 | June. 24 2021 |
| 10 | Coaxial cable | GTS | N/A | GTS210 | June. 25 2020 | June. 24 2021 |
| 11 | Coaxial Cable | GTS | N/A | GTS212 | June. 25 2020 | June. 24 2021 |
| 12 | Amplifier(100kHz-3GHz) | HP | 8347A | GTS204 | June. 25 2020 | June. 24 2021 |
| 13 | Amplifier(2GHz-20GHz) | HP | 84722A | GTS206 | June. 25 2020 | June. 24 2021 |
| 14 | Amplifier (18-26GHz) | Rohde & Schwarz | AFS33-18002 650-30-8P-44 | GTS218 | June. 25 2020 | June. 24 2021 |
| 15 | Band filter | Amindeon | 82346 | GTS219 | June. 25 2020 | June. 24 2021 |
| 16 | Power Meter | Anritsu | ML2495A | GTS540 | June. 25 2020 | June. 24 2021 |
| 17 | Power Sensor | Anritsu | MA2411B | GTS541 | June. 25 2020 | June. 24 2021 |
| 18 | Wideband Radio Communication Tester | Rohde & Schwarz | CMW500 | GTS575 | June. 25 2020 | June. 24 2021 |
| 19 | Splitter | Agilent | 11636B | GTS237 | June. 25 2020 | June. 24 2021 |
| 20 | Loop Antenna | ZHINAN | ZN30900A | GTS534 | June. 25 2020 | June. 24 2021 |
| 21 | Breitband hornantenne | SCHWARZBECK | BBHA 9170 | GTS579 | Oct. 19 2019 | Oct. 18 2020 |
| 22 | Amplifier | TDK | PA-02-02 | GTS574 | Oct. 19 2019 | Oct. 18 2020 |
| 23 | Amplifier | TDK | PA-02-03 | GTS576 | Oct. 19 2019 | Oct. 18 2020 |
| 24 | PSA Series Spectrum Analyzer | Rohde & Schwarz | FSP | GTS578 | June. 25 2020 | June. 24 2021 |

| Conducted Emission | | | | | | |
|---|---|---|---|---|---|---|
| **Item** | **Test Equipment** | **Manufacturer** | **Model No.** | **Inventory No.** | **Cal.Date (mm-dd-yy)** | **Cal.Due date (mm-dd-yy)** |
| 1 | Shielding Room | ZhongYu Electron | 7.3(L)x3.1(W)x2.9(H) | GTS252 | May.15 2019 | May.14 2022 |
| 2 | EMI Test Receiver | R&S | ESCI 7 | GTS552 | June. 25 2020 | June. 24 2021 |
| 3 | Coaxial Switch | ANRITSU CORP | MP59B | GTS225 | June. 25 2020 | June. 24 2021 |
| 4 | ENV216 2-L-V-NETZNACHB.DE | ROHDE&SCHWARZ | ENV216 | GTS226 | June. 25 2020 | June. 24 2021 |
| 5 | Coaxial Cable | GTS | N/A | GTS227 | N/A | N/A |
| 6 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A |
| 7 | Thermo meter | KTJ | TA328 | GTS233 | June. 25 2020 | June. 24 2021 |
| 8 | Absorbing clamp | Elektronik-Feinmechanik | MDS21 | GTS229 | June. 25 2020 | June. 24 2021 |
| 9 | ISN | SCHWARZBECK | NTFM 8158 | GTD565 | June. 25 2020 | June. 24 2021 |

| RF Conducted Test: | | | | | | |
|---|---|---|---|---|---|---|
| **Item** | **Test Equipment** | **Manufacturer** | **Model No.** | **Serial No.** | **Cal.Date (mm-dd-yy)** | **Cal.Due date (mm-dd-yy)** |
| 1 | MXA Signal Analyzer | Agilent | N9020A | GTS566 | June. 25 2020 | June. 24 2021 |
| 2 | EMI Test Receiver | R&S | ESCI 7 | GTS552 | June. 25 2020 | June. 24 2021 |
| 3 | Spectrum Analyzer | Agilent | E4440A | GTS533 | June. 25 2020 | June. 24 2021 |
| 4 | MXG vector Signal Generator | Agilent | N5182A | GTS567 | June. 25 2020 | June. 24 2021 |
| 5 | ESG Analog Signal Generator | Agilent | E4428C | GTS568 | June. 25 2020 | June. 24 2021 |
| 6 | USB RF Power Sensor | DARE | RPR3006W | GTS569 | June. 25 2020 | June. 24 2021 |
| 7 | RF Switch Box | Shongyi | RFSW3003328 | GTS571 | June. 25 2020 | June. 24 2021 |
| 8 | Programmable Constant Temp & Humi Test Chamber | WEWON | WHTH-150L-40-880 | GTS572 | June. 25 2020 | June. 24 2021 |

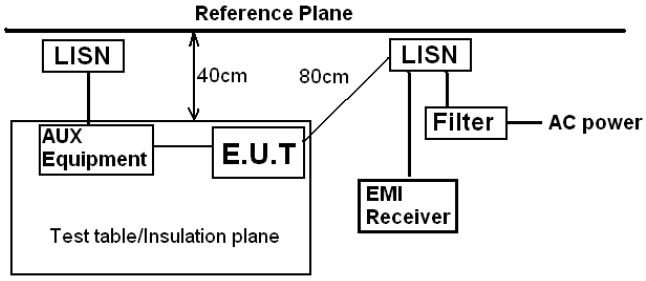
| General used equipment: | | | | | | |
|---|---|---|---|---|---|---|
| **Item** | **Test Equipment** | **Manufacturer** | **Model No.** | **Inventory No.** | **Cal.Date (mm-dd-yy)** | **Cal.Due date (mm-dd-yy)** |
| 1 | Humidity/ Temperature Indicator | KTJ | TA328 | GTS243 | June. 25 2020 | June. 24 2021 |
| 2 | Barometer | ChangChun | DYM3 | GTS255 | June. 25 2020 | June. 24 2021 |

# 7 Test results and Measurement Data

## 7.1 Antenna requirement

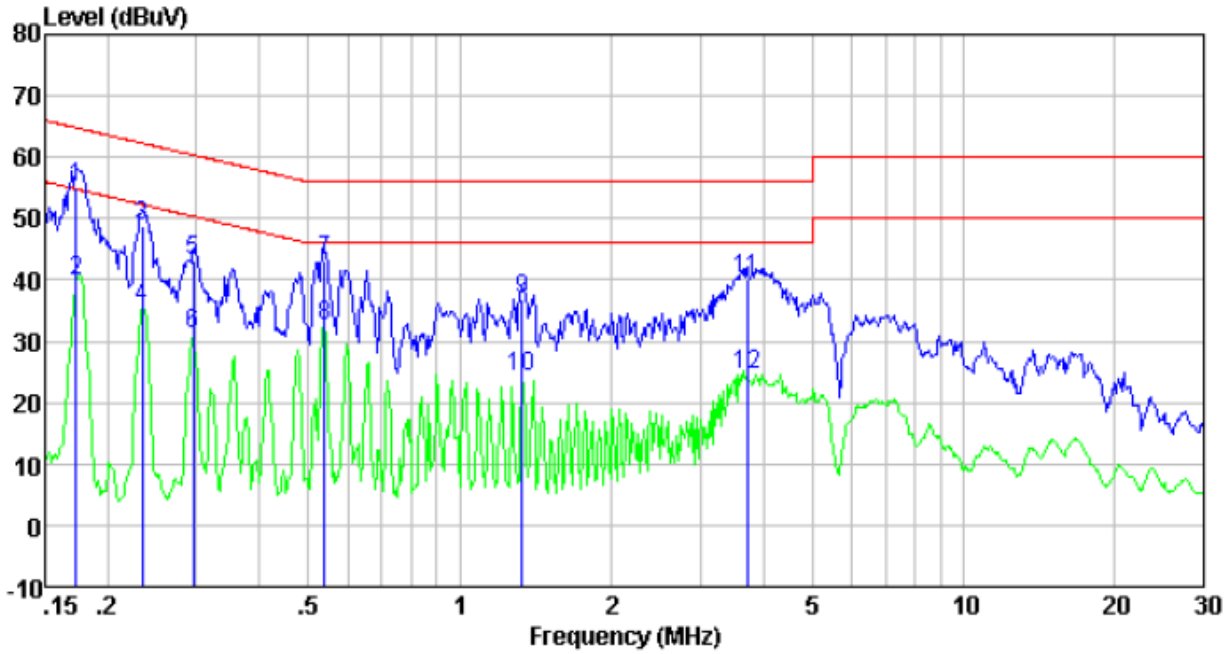
| | |
|---|---|
| **Standard requirement:** | FCC Part15 C Section 15.203 |
| *15.203 requirement:*<br>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. | |
| **Standard requirement:** | RSS-Gen 8.3 |
| A transmitter can only be sold or operated with antennas with which it was approved.<br>When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on measurement or on data from the antenna manufacturer. For transmitters of RF output power of 10 milliwatts or less, only the portion of the antenna gain that is in excess of 6 dBi (6 dB above isotropic gain) shall be added to the measured RF output power to demonstrate compliance with the radiated power limits specified in the applicable standard. For transmitters of output power greater than 10 milliwatts, the total antenna gain shall be added to the measured RF output power to demonstrate compliance to the specified radiated power | |
| **E.U.T Antenna:** | |
| *The antenna is Integral antenna, the best case gain of the antenna is 1.9dBi, reference to the appendix II for details* | |

## 7.2 Conducted Emissions

| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.207<br>RSS-Gen 8.8 |
| Test Method: | ANSI C63.10:2013 |
| Test Frequency Range: | 150KHz to 30MHz |
| Class / Severity: | Class B |
| Receiver setup: | RBW=9KHz, VBW=30KHz, Sweep time=auto |
| Limit: | Frequency range (MHz) / Limit (dBuV): Quasi-peak / Average<br>0.15-0.5: 66 to 56* / 56 to 46*<br>0.5-5: 56 / 46<br>5-30: 60 / 50<br>* Decreases with the logarithm of the frequency. |
| Test setup: |  <br>*Remark:*<br>*E.U.T: Equipment Under Test*<br>*LISN: Line Impedence Stabilization Network*<br>*Test table height=0.8m* |
| Test procedure: | 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.<br>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).<br>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. |
| Test Instruments: | Refer to section 6.0 for details |
| Test mode: | Refer to section 5.2 for details |
| Test environment: | Temp.: 25 °C / Humid.: 52% / Press.: 1012mbar |
| Test voltage: | AC 120V, 60Hz |
| Test results: | Pass |

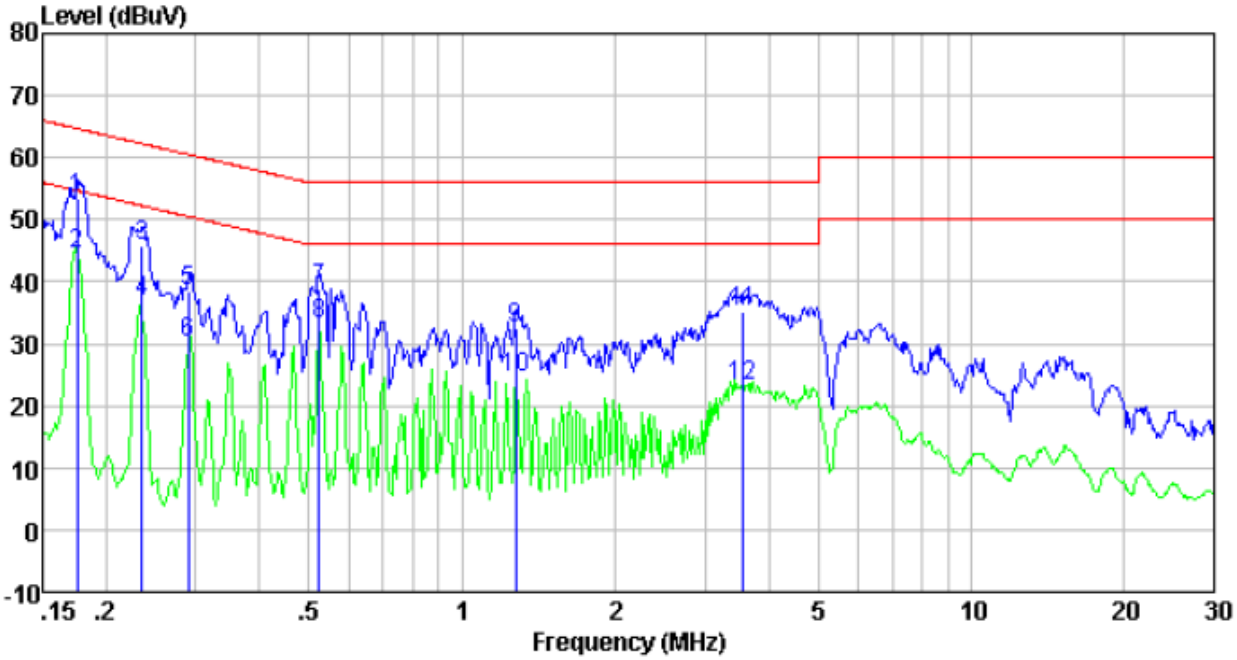
Remark: Both high and low voltages have been tested to show only the worst low voltage test data.

**Measurement data**
**Line:**




| Freq. MHz | Read Level dBuV | Factor dB/m | Level dBuV | Limit Line dBuV | Over Limit dB | Remark |
|---|---|---|---|---|---|---|
| 0.17 | 34.65 | 20.49 | 55.14 | 64.81 | -9.67 | QP |
| 0.17 | 19.46 | 20.49 | 39.95 | 54.81 | -14.86 | Average |
| 0.23 | 28.30 | 20.51 | 48.81 | 62.30 | -13.49 | QP |
| 0.23 | 15.06 | 20.51 | 35.57 | 52.30 | -16.73 | Average |
| 0.30 | 22.48 | 20.50 | 42.98 | 60.37 | -17.39 | QP |
| 0.30 | 10.77 | 20.50 | 31.27 | 50.37 | -19.10 | Average |
| 0.54 | 22.62 | 20.41 | 43.03 | 56.00 | -12.97 | QP |
| 0.54 | 12.11 | 20.41 | 32.52 | 46.00 | -13.48 | Average |
| 1.33 | 16.57 | 20.36 | 36.93 | 56.00 | -19.07 | QP |
| 1.33 | 3.72 | 20.36 | 24.08 | 46.00 | -21.92 | Average |
| 3.72 | 19.73 | 20.38 | 40.11 | 56.00 | -15.89 | QP |
| 3.72 | 4.28 | 20.38 | 24.66 | 46.00 | -21.34 | Average |

**Neutral:**

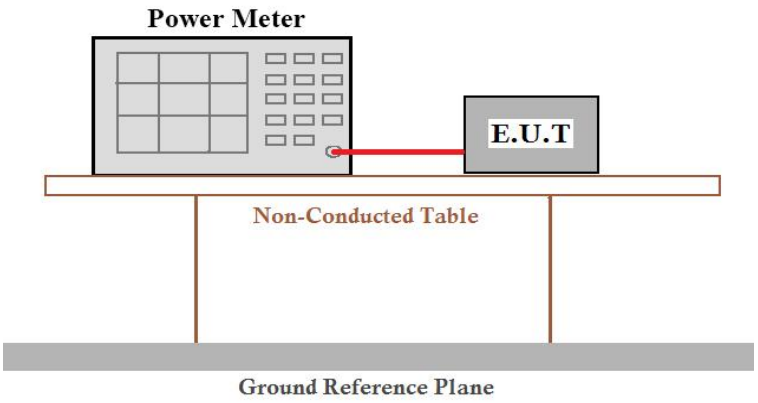



| Freq. MHz | Read Level dBuV | Factor dB/m | Level dBuV | Limit Line dBuV | Over Limit dB | Remark |
|---|---|---|---|---|---|---|
| 0.17 | 32.81 | 20.49 | 53.30 | 64.72 | -11.42 | QP |
| 0.17 | 24.07 | 20.49 | 44.56 | 54.72 | -10.16 | Average |
| 0.24 | 25.41 | 20.51 | 45.92 | 62.26 | -16.34 | QP |
| 0.24 | 16.16 | 20.51 | 36.67 | 52.26 | -15.59 | Average |
| 0.29 | 18.07 | 20.50 | 38.57 | 60.54 | -21.97 | QP |
| 0.29 | 9.67 | 20.50 | 30.17 | 50.54 | -20.37 | Average |
| 0.52 | 18.38 | 20.42 | 38.80 | 56.00 | -17.20 | QP |
| 0.52 | 12.77 | 20.42 | 33.19 | 46.00 | -12.81 | Average |
| 1.28 | 12.23 | 20.36 | 32.59 | 56.00 | -23.41 | QP |
| 1.28 | 4.27 | 20.36 | 24.63 | 46.00 | -21.37 | Average |
| 3.57 | 14.70 | 20.38 | 35.08 | 56.00 | -20.92 | QP |
| 3.57 | 2.97 | 20.38 | 23.35 | 46.00 | -22.65 | Average |

*Notes:*

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level =Receiver Read level + LISN Factor + Cable Loss
4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both *limits and measurement with the average detector receiver is unnecessary.*

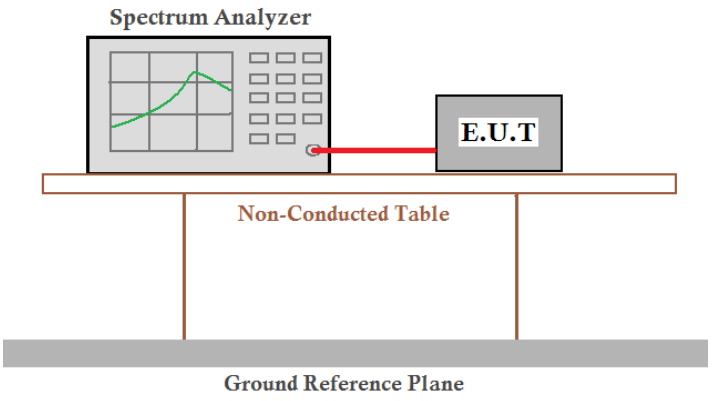
## 7.3 Conducted Peak Output Power

| | |
|---|---|
| Test Requirement: | FCC Part15 E Section 15.407(a)(3)<br>RSS-247 6.2.4.1 |
| Test Method: | ANSI C63.10:2013 and KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 & RSS-Gen |
| Limit: | 30dBm |
| Test setup: |  |
| Test Instruments: | Refer to section 6.0 for details |
| Test mode: | Refer to section 5.2 for details |
| Test results: | Pass |

**Measurement Data**

| Test CH | Peak Output Power (dBm) | | Limit(dBm) | Result |
|---|---|---|---|---|
| | 802.11a | 802.11n(HT20) | | |
| Lowest | 15.95 | 14.92 | 30.00 | Pass |
| Middle | 14.59 | 15.72 | | |
| Highest | 14.86 | 14.97 | | |

## 7.4 Channel Bandwidth and 99% Occupied Bandwidth

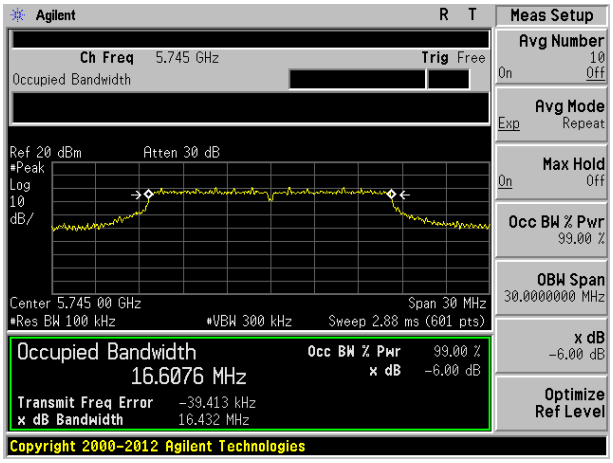
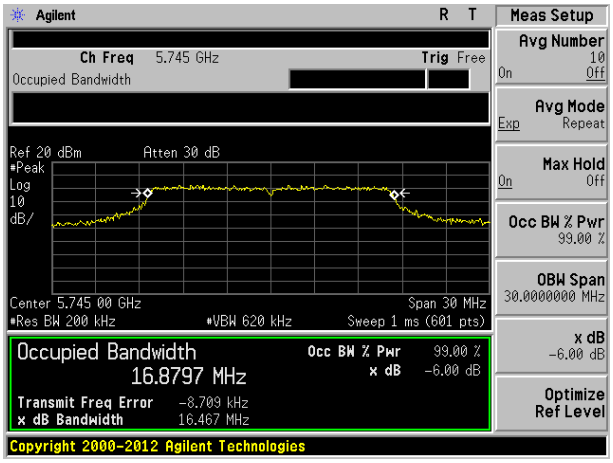
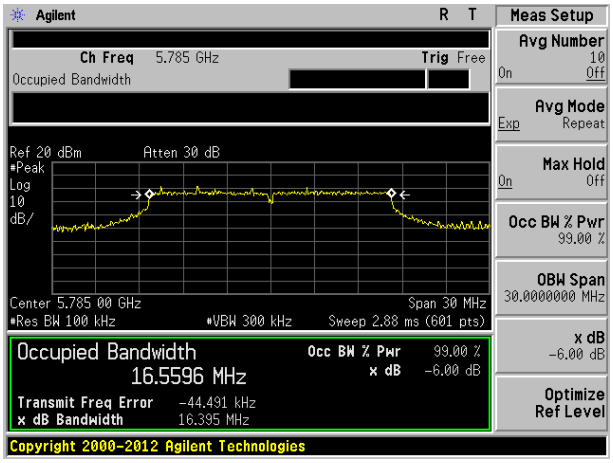
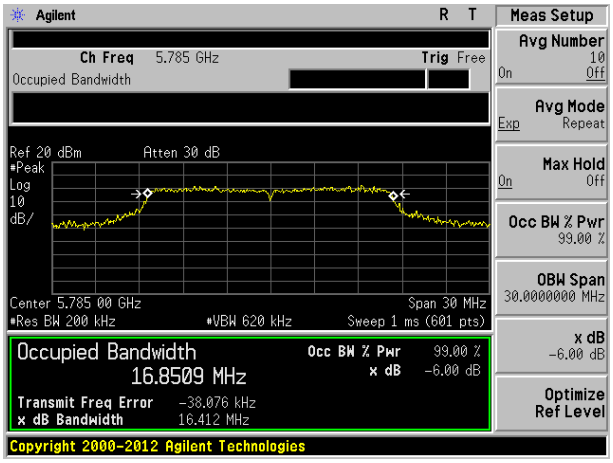
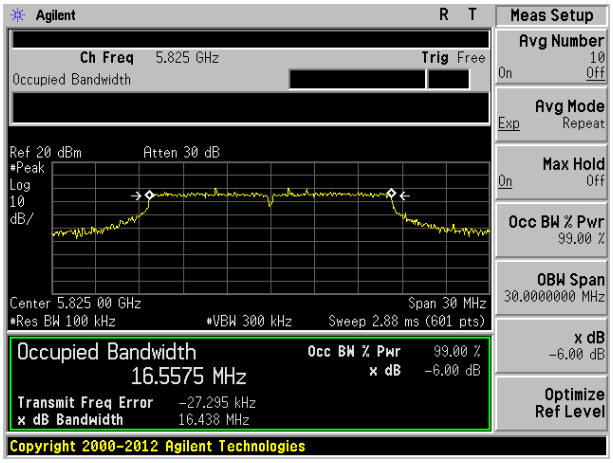
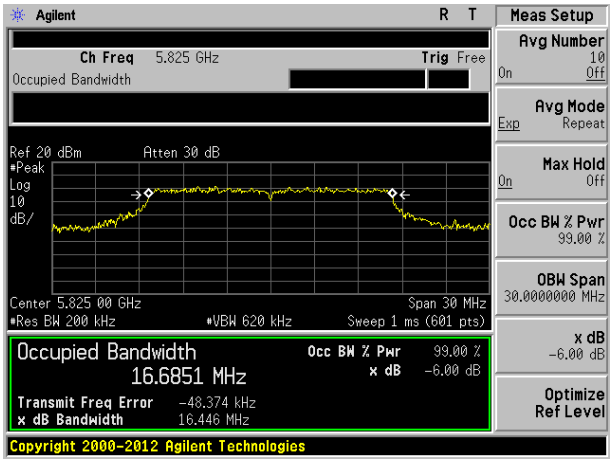
| | |
|---|---|
| Test Requirement: | FCC Part15 E Section 15.407(e)<br>RSS-247 Section 5.2 & RSS-Gen Section 6.2.4.1 |
| Test Method: | ANSI C63.10:2013 and KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 & RSS-Gen |
| Limit: | >500KHz |
| Test setup: |  |
| Test Instruments: | Refer to section 6.0 for details |
| Test mode: | Refer to section 5.2 for details |
| Test results: | Pass |

**Measurement Data**

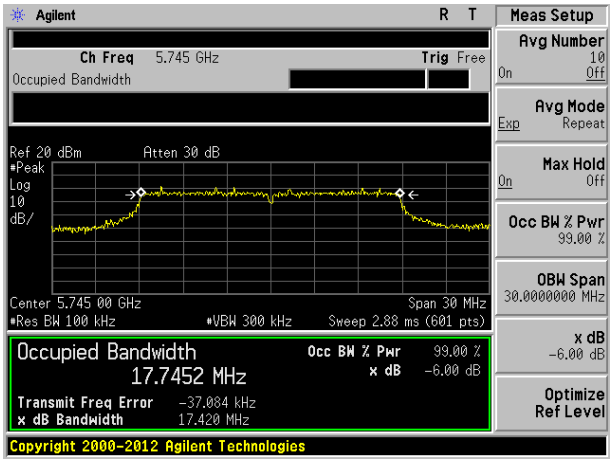
| Test CH | Channel Bandwidth (MHz) | | Limit (KHz) | Result |
|---|---|---|---|---|
| | 802.11a | 802.11n(HT20) | | |
| Lowest | 16.432 | 17.420 | >500 | Pass |
| Middle | 16.395 | 17.621 | | |
| Highest | 16.438 | 17.619 | | |

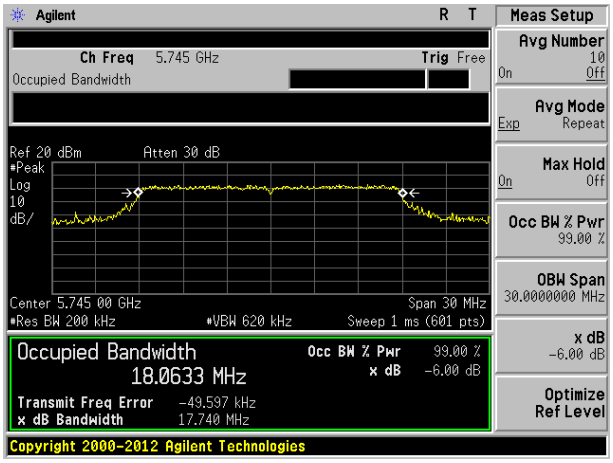
| Test CH | 99% Occupied Bandwidth (MHz) | | Limit (KHz) | Result |
|---|---|---|---|---|
| | 802.11a | 802.11n(HT20) | | |
| Lowest | 16.8797 | 18.0633 | >500 | Pass |
| Middle | 16.8509 | 17.8648 | | |
| Highest | 16.6851 | 17.8413 | | |

**Test plot as follows:**

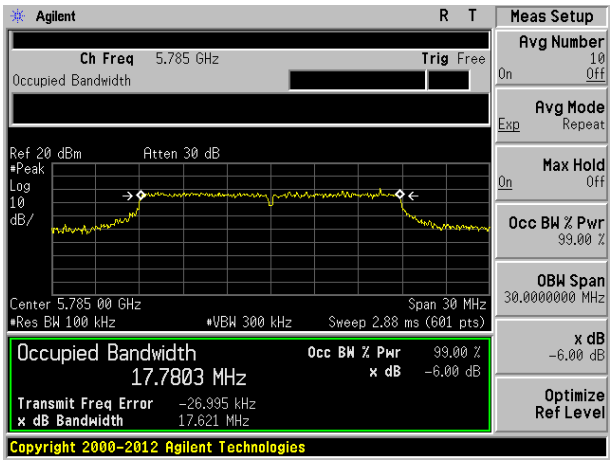
| 802.11a mode | -6dB BW | 802.11a mode | 99% BW |
|---|---|---|---|
|  | |  | |
| Lowest channel | | | |
|  | |  | |
| Middle channel | | | |
|  | |  | |
| Highest channel | | | |

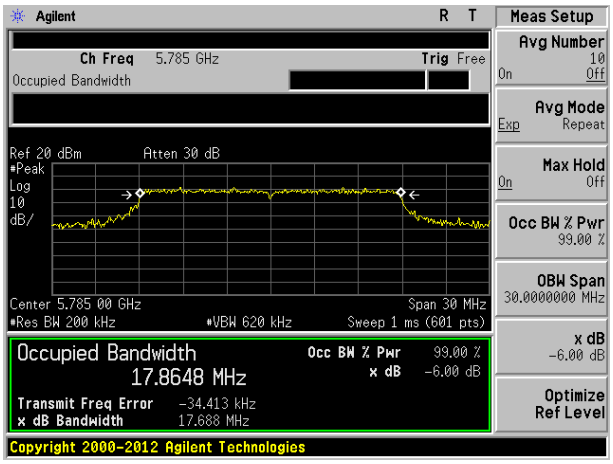
| 802.11a mode | -6dB BW | 802.11a mode | 99% BW |
|---|---|---|---|



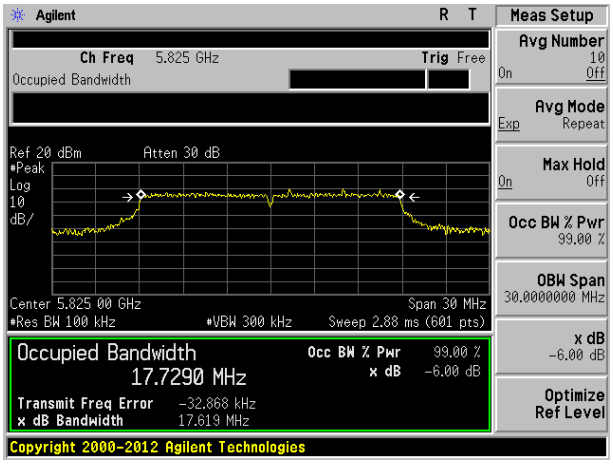



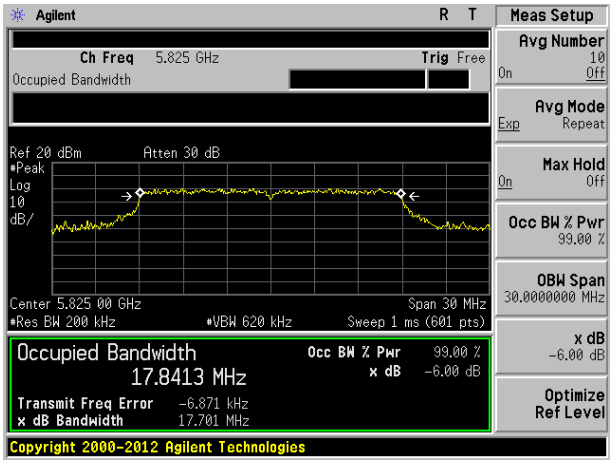

Lowest channel



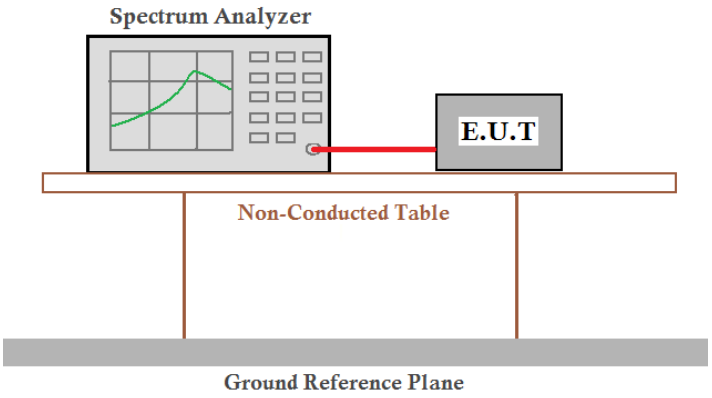

Middle channel




Highest channel

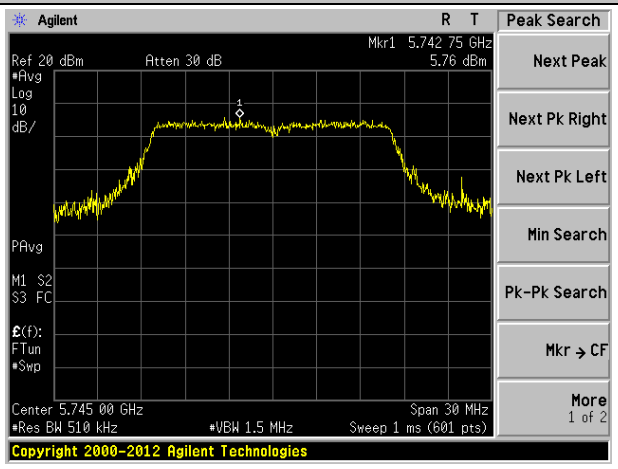
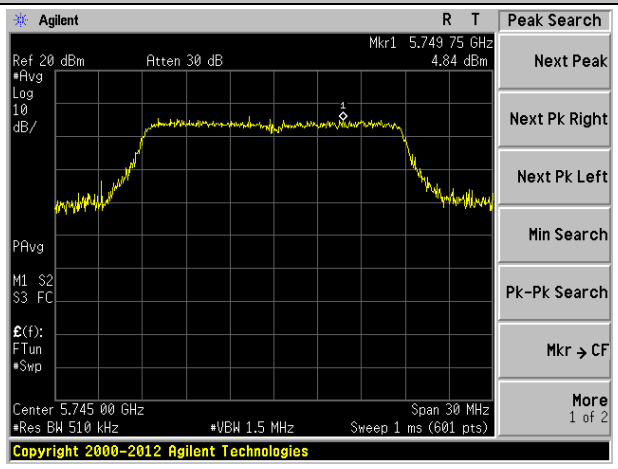
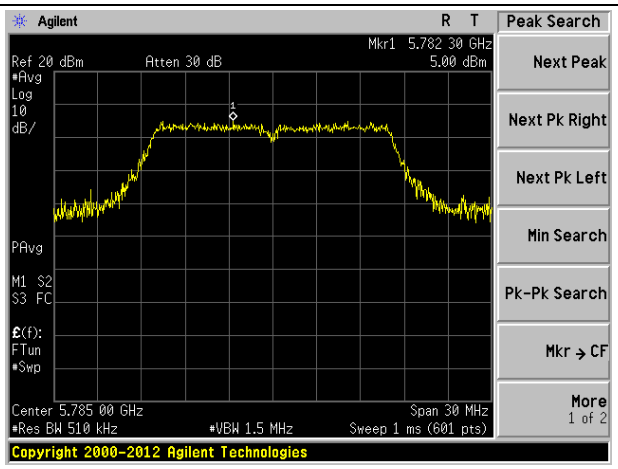
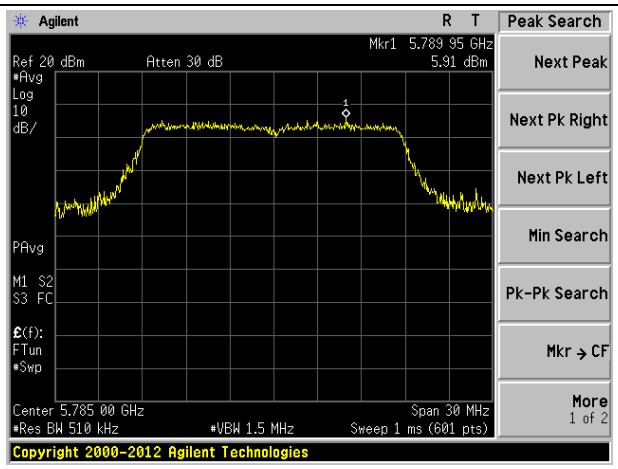
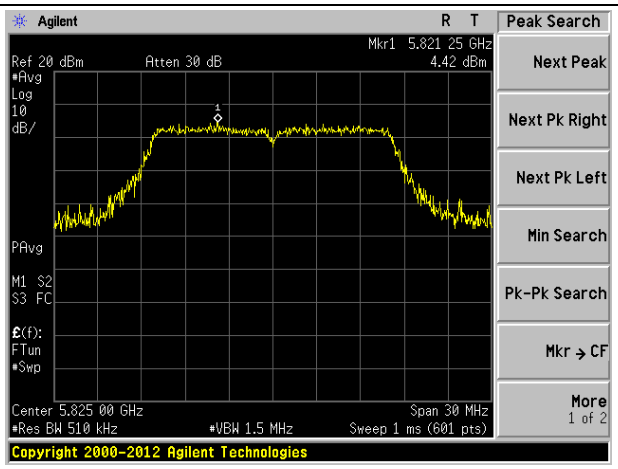
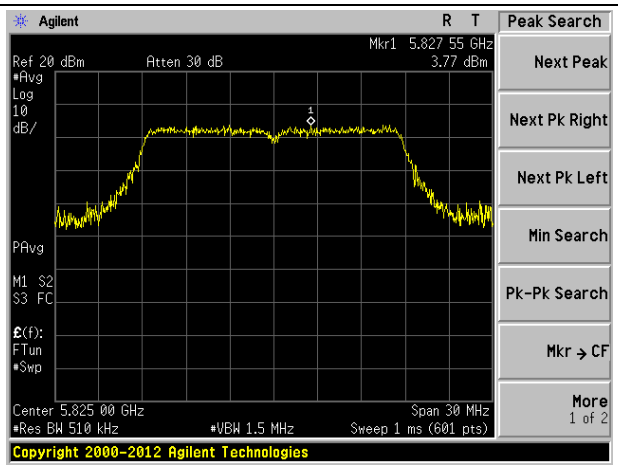
## 7.5 Power Spectral Density

| | |
|---|---|
| Test Requirement: | FCC Part15 E Section 15.407(a)(3)<br>RSS-247 Section 6.2.4.1 |
| Test Method: | ANSI C63.10:2013 and KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 & RSS-Gen |
| Limit: | 30dBm/500kHz |
| Test setup: |  |
| Test Instruments: | Refer to section 6.0 for details |
| Test mode: | Refer to section 5.2 for details |
| Test results: | Pass |

**Measurement Data**

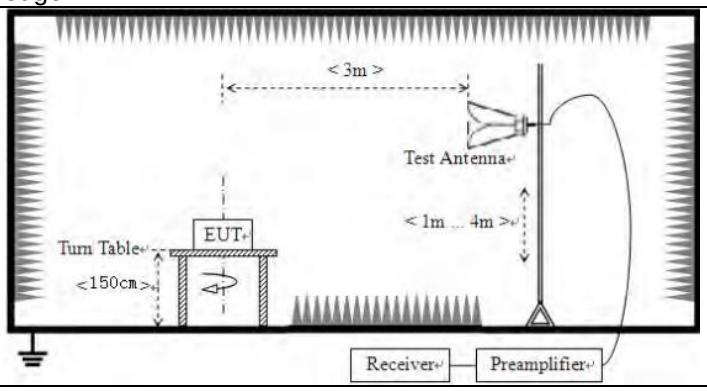
| Test CH | Power Spectral Density (dBm/500kHz) | | Limit (dBm/500kHz) | Result |
|---|---|---|---|---|
| | 802.11a | 802.11n(HT20) | | |
| Lowest | 5.76 | 4.84 | 30.00 | Pass |
| Middle | 5.00 | 5.91 | | |
| Highest | 4.42 | 3.77 | | |

**Test plot as follows:**

| 802.11a mode | 802.11n mode |
|---|---|
|  |  |
| Lowest channel | |
|  |  |
| Middle channel | |
|  |  |
| Highest channel | |

## 7.6 Band edge

### 7.6.1 Radiated Emission Method

| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.209 and 15.205<br>RSS-247 Section 6.2.4.2 & RSS-Gen 8.10 |
| Test Method: | ANSI C63.10: 2013 & RSS-Gen |
| Test Frequency Range: | 9kHz to 40GHz, only worse case is reported |
| Test site: | Measurement Distance: 3m |
| Receiver setup: | Frequency / Detector / RBW / VBW / Value<br>Above 1GHz / Peak / 1MHz / 3MHz / Peak<br>Above 1GHz / RMS / 1MHz / 3MHz / RMS |
| Limit: | 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. |
| Test setup: |  |
| Test Procedure: | 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.<br>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.<br>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.<br>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.<br>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.<br>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.<br>7. The radiation measurements are performed in X, Y, Z axis positioning. |

| | |
|---|---|
| | And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report. |
| Test Instruments: | Refer to section 6.0 for details |
| Test mode: | Refer to section 5.2 for details |
| Test results: | Pass |

*Remarks:*

1. *Only the worst case Main Antenna test data..*
2. *Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
3. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
4. *The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.*
5. *According to KDB 789033 D02v02r01 section G) 1) d),for measurements above 1000 MHz @3m distance, the limit of field strength is computed as follows:*
   *E[dBuV/m] = EIRP[dBm] + 95.2;*
   *E[dBuV/m] = -27 + 95.2 = 68.2dBuV/m.*
   *E[dBuV/m] = 10 + 95.2 = 105.2dBuV/m.*
   *E[dBuV/m] = 15.6 + 95.2 = 110.8dBuV/m.*
   *E[dBuV/m] = 27 + 95.2 = 122.2dBuV/m*

**Measurement data:**

| *IEEE 802.11a HT20* | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Peak value:** | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5650.00 | 27.37 | 32.36 | 9.72 | 23.83 | 45.62 | 68.2 | -22.58 | Horizontal |
| 5700.00 | 27.10 | 32.5 | 9.79 | 23.84 | 45.55 | 105.2 | -59.65 | Horizontal |
| 5720.00 | 26.84 | 32.53 | 9.81 | 23.85 | 45.33 | 110.8 | -65.47 | Horizontal |
| 5725.00 | 29.27 | 32.53 | 9.83 | 23.86 | 47.77 | 122.2 | -74.43 | Horizontal |
| 5850.00 | 26.98 | 32.7 | 9.99 | 23.87 | 45.8 | 122.2 | -76.4 | Horizontal |
| 5855.00 | 29.52 | 32.72 | 9.99 | 23.88 | 48.35 | 110.8 | -62.45 | Horizontal |
| 5875.00 | 26.95 | 32.74 | 10.04 | 23.89 | 45.84 | 105.2 | -59.36 | Horizontal |
| 5925.00 | 28.23 | 32.8 | 10.11 | 23.9 | 47.24 | 68.2 | -20.96 | Horizontal |
| 5650.00 | 25.69 | 32.36 | 9.72 | 23.83 | 43.94 | 68.2 | -24.26 | Vertical |
| 5700.00 | 27.99 | 32.5 | 9.79 | 23.84 | 46.44 | 105.2 | -58.76 | Vertical |
| 5720.00 | 25.85 | 32.53 | 9.81 | 23.85 | 44.34 | 110.8 | -66.46 | Vertical |
| 5725.00 | 26.52 | 32.53 | 9.83 | 23.86 | 45.02 | 122.2 | -77.18 | Vertical |
| 5850.00 | 27.38 | 32.7 | 9.99 | 23.87 | 46.2 | 122.2 | -76 | Vertical |
| 5855.00 | 29.50 | 32.72 | 9.99 | 23.88 | 48.33 | 110.8 | -62.47 | Vertical |
| 5875.00 | 25.26 | 32.74 | 10.04 | 23.89 | 44.15 | 105.2 | -61.05 | Vertical |
| 5925.00 | 25.95 | 32.8 | 10.11 | 23.9 | 44.96 | 68.2 | -23.24 | Vertical |

| *IEEE 802.11n* | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Peak value:** | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 5650.00 | 27.68 | 32.36 | 9.72 | 23.83 | 45.93 | 68.2 | -22.27 | Horizontal |
| 5700.00 | 29.20 | 32.5 | 9.79 | 23.84 | 47.65 | 105.2 | -57.55 | Horizontal |
| 5720.00 | 28.47 | 32.53 | 9.81 | 23.85 | 46.96 | 110.8 | -63.84 | Horizontal |
| 5725.00 | 26.87 | 32.53 | 9.83 | 23.86 | 45.37 | 122.2 | -76.83 | Horizontal |
| 5850.00 | 27.93 | 32.7 | 9.99 | 23.87 | 46.75 | 122.2 | -75.45 | Horizontal |
| 5855.00 | 29.30 | 32.72 | 9.99 | 23.88 | 48.13 | 110.8 | -62.67 | Horizontal |
| 5875.00 | 28.80 | 32.74 | 10.04 | 23.89 | 47.69 | 105.2 | -57.51 | Horizontal |
| 5925.00 | 29.35 | 32.8 | 10.11 | 23.9 | 48.36 | 68.2 | -19.84 | Horizontal |
| 5650.00 | 29.10 | 32.36 | 9.72 | 23.83 | 47.35 | 68.2 | -20.85 | Vertical |
| 5700.00 | 29.44 | 32.5 | 9.79 | 23.84 | 47.89 | 105.2 | -57.31 | Vertical |
| 5720.00 | 29.99 | 32.53 | 9.81 | 23.85 | 48.48 | 110.8 | -62.32 | Vertical |
| 5725.00 | 27.49 | 32.53 | 9.83 | 23.86 | 45.99 | 122.2 | -76.21 | Vertical |
| 5850.00 | 29.86 | 32.7 | 9.99 | 23.87 | 48.68 | 122.2 | -73.52 | Vertical |
| 5855.00 | 26.57 | 32.72 | 9.99 | 23.88 | 45.4 | 110.8 | -65.4 | Vertical |
| 5875.00 | 27.12 | 32.74 | 10.04 | 23.89 | 46.01 | 105.2 | -59.19 | Vertical |
| 5925.00 | 25.11 | 32.8 | 10.11 | 23.9 | 44.12 | 68.2 | -24.08 | Vertical |

## 7.7 Spurious Emission

### 7.7.1 Radiated Emission Method

| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.209, Part 15E Section 15.407(b)(4)<br>RSS-247 Section 6.2.4.2 & RSS-Gen Section 8.9 |
| Test Method: | ANSI C63.10:2013 & RSS-Gen |
| Test Frequency Range: | 9kHz to 40GHz |
| Test site: | Measurement Distance: 3m |
| Receiver setup: | |

| Frequency | Detector | RBW | VBW | Value |
|---|---|---|---|---|
| 9kHz-150KHz | Quasi-peak | 200Hz | 1kHz | Quasi-peak Value |
| 150kHz-30MHz | Quasi-peak | 9kHz | 30kHz | Quasi-peak Value |
| 30MHz-1GHz | Quasi-peak | 120KHz | 300KHz | Quasi-peak Value |
| Above 1GHz | Peak | 1MHz | 3MHz | Peak Value |
| | AV | 1MHz | 3MHz | Average Value |

FCC Limit:

| Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
|---|---|---|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100** | 3 |
| 88-216 | 150** | 3 |
| 216-960 | 200** | 3 |
| Above 960 | 500 | 3 |

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

IC Limit:

**Table 5 – General field strength limits at frequencies above 30 MHz**

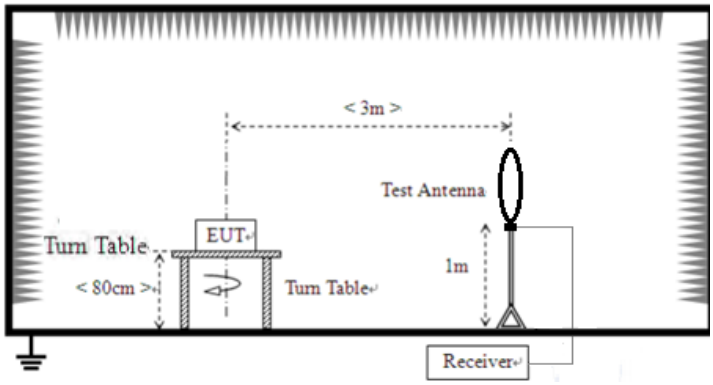
| Frequency (MHz) | Field strength (µV/m at 3 m) |
|---|---|
| 30 – 88 | 100 |
| 88 – 216 | 150 |
| 216 – 960 | 200 |
| Above 960 | 500 |

**Table 6 – General field strength limits at frequencies below 30 MHz**

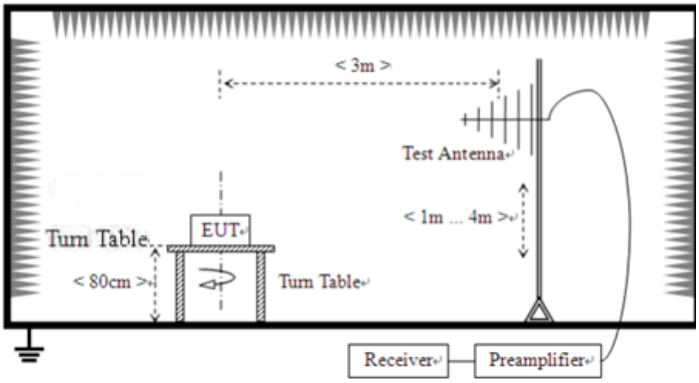
| Frequency | Magnetic field strength (H-Field) (µA/m) | Measurement distance (m) |
|---|---|---|
| 9 - 490 kHz [1] | 6.37/F (F in kHz) | 300 |
| 490 - 1705 kHz | 63.7/F (F in kHz) | 30 |
| 1.705 - 30 MHz | 0.08 | 30 |

**Note 1:** The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

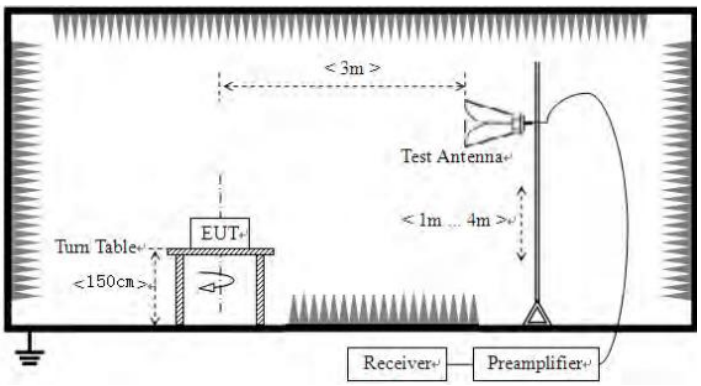
| | |
|---|---|
| Test setup: | For radiated emissions from 9kHz to 30MHz |




For radiated emissions from 30MHz to1GHz




For radiated emissions above 1GHz




| | |
|---|---|
| Test Procedure: | 1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.<br>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.<br>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.<br>4. For each suspected emission, the EUT was arranged to its worst case |

| | | | | | | |
|---|---|---|---|---|---|---|
| | and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.<br>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.<br>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.<br>7. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report. | | | | | |
| Test Instruments: | Refer to section 6.0 for details | | | | | |
| Test mode: | Refer to section 5.2 for details | | | | | |
| Test environment: | Temp.: | 25 °C | Humid.: | 52% | Press.: | 1012mbar |
| Test voltage: | AC 120V, 60Hz | | | | | |
| Test results: | Pass | | | | | |

*Remarks:*

1. *Only the worst case Main Antenna test data.*
2. *Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.*

**Measurement Data:**

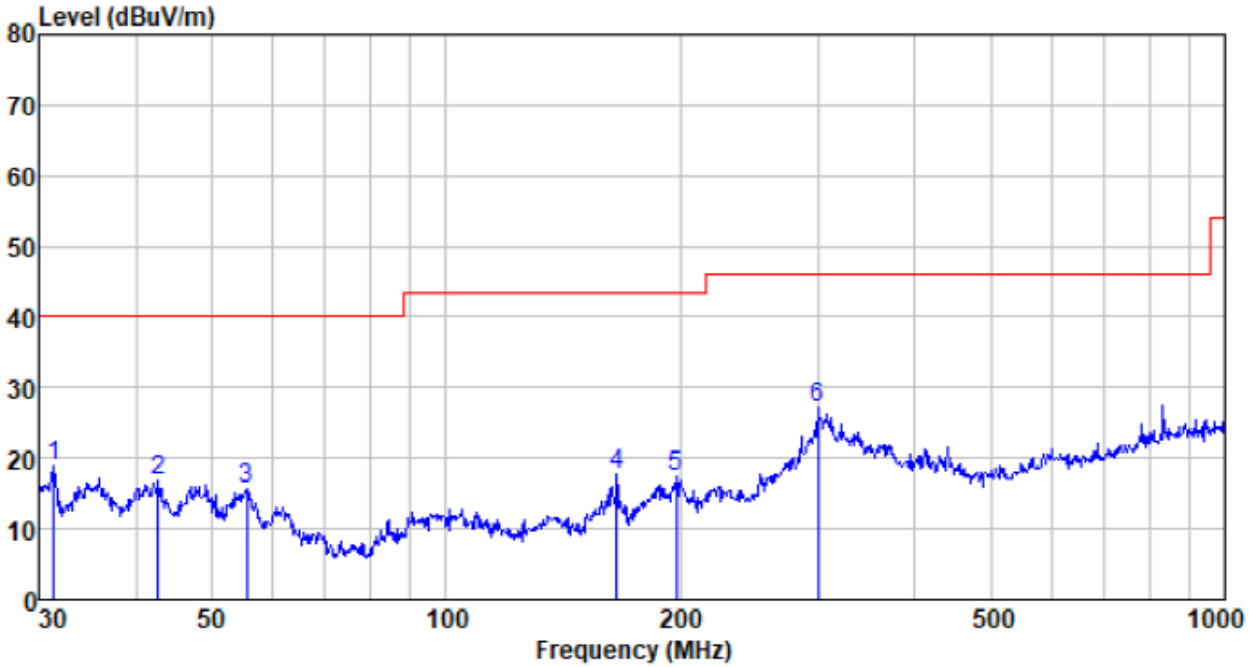
**9 kHz ~ 30 MHz**

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

**Below 1GHz**

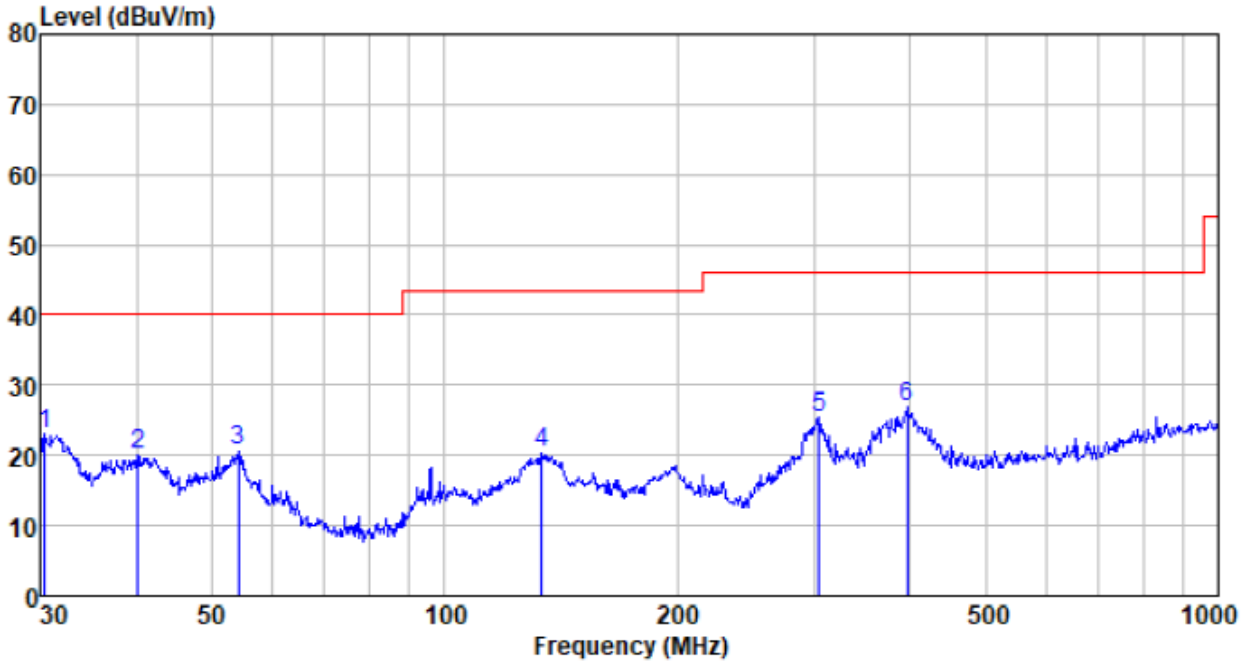
Pre-scan all test modes, found worst case at 802.11ac(HT80) 5775MHz, and so only show the test result of 802.11ac(HT80) 5775MHz

**Horizontal:**




| Freq | Reading level | Antenna factor | Cable loss | Preamp factor | level | Limit level | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 31.399 | 42.10 | 11.23 | 0.57 | 35.11 | 18.79 | 40.00 | -21.21 | QP |
| 42.750 | 39.84 | 12.23 | 0.69 | 35.82 | 16.94 | 40.00 | -23.06 | QP |
| 55.415 | 39.27 | 11.75 | 0.82 | 36.26 | 15.58 | 40.00 | -24.42 | QP |
| 165.487 | 44.73 | 8.41 | 1.66 | 37.16 | 17.64 | 43.50 | -25.86 | QP |
| 197.200 | 42.65 | 10.26 | 1.82 | 37.32 | 17.41 | 43.50 | -26.09 | QP |
| 300.367 | 48.53 | 13.60 | 2.36 | 37.42 | 27.07 | 46.00 | -18.93 | QP |

**Vertical:**




| Freq | Reading level | Antenna factor | Cable loss | Preamp factor | level | Limit level | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 30.424 | 46.19 | 11.21 | 0.56 | 35.03 | 22.93 | 40.00 | -17.07 | QP |
| 40.135 | 42.89 | 12.20 | 0.66 | 35.67 | 20.08 | 40.00 | -19.92 | QP |
| 54.071 | 44.17 | 11.88 | 0.81 | 36.24 | 20.62 | 40.00 | -19.38 | QP |
| 133.619 | 47.94 | 7.92 | 1.46 | 36.98 | 20.34 | 43.50 | -23.16 | QP |
| 304.610 | 46.70 | 13.68 | 2.38 | 37.43 | 25.33 | 46.00 | -20.67 | QP |
| 396.242 | 46.29 | 15.25 | 2.83 | 37.52 | 26.85 | 46.00 | -19.15 | QP |

**Above 1GHz:**

| Test mode: | | 802.11a | | Test channel: | | lowest | |
|---|---|---|---|---|---|---|---|
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dBuV/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| V | 11490 | 28.65 | 21.64 | 50.29 | 74 | -23.71 | PK |
| V | 17235 | 27.66 | 21.8 | 49.46 | 74 | -24.54 | PK |
| H | 11490 | 28.05 | 21.83 | 49.88 | 74 | -24.12 | PK |
| H | 17235 | 30.02 | 21.67 | 51.69 | 74 | -22.31 | PK |

| Test mode: | | 802.11a | | Test channel: | | Middle | |
|---|---|---|---|---|---|---|---|
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dBuV/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| V | 11570 | 29.65 | 21.64 | 51.29 | 74 | -22.71 | PK |
| V | 17355 | 29.14 | 21.8 | 50.94 | 74 | -23.06 | PK |
| H | 11570 | 28.44 | 21.83 | 50.27 | 74 | -23.73 | PK |
| H | 17355 | 30.95 | 21.67 | 52.62 | 74 | -21.38 | PK |

| Test mode: | | 802.11a | | Test channel: | | Highest | |
|---|---|---|---|---|---|---|---|
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dBuV/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| V | 11650 | 26.87 | 21.64 | 48.51 | 74 | -25.49 | PK |
| V | 17475 | 25.22 | 21.8 | 47.02 | 74 | -26.98 | PK |
| H | 11650 | 24.86 | 21.83 | 46.69 | 74 | -27.31 | PK |
| H | 17475 | 27.05 | 21.67 | 48.72 | 74 | -25.28 | PK |

| Test mode: | | 802.11n | | Test channel: | | lowest | |
|---|---|---|---|---|---|---|---|
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dBuV/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| V | 11490 | 29.68 | 21.64 | 51.32 | 74 | -22.68 | PK |
| V | 17235 | 28.50 | 21.8 | 50.3 | 74 | -23.7 | PK |
| H | 11490 | 26.97 | 21.83 | 48.8 | 74 | -25.2 | PK |
| H | 17235 | 26.99 | 21.67 | 48.66 | 74 | -25.34 | PK |

| Test mode: | | 802.11n | | Test channel: | | Middle | |
|---|---|---|---|---|---|---|---|
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dBuV/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| V | 11570 | 25.35 | 21.64 | 46.99 | 74 | -27.01 | PK |
| V | 17355 | 26.66 | 21.8 | 48.46 | 74 | -25.54 | PK |
| H | 11570 | 28.81 | 21.83 | 50.64 | 74 | -23.36 | PK |
| H | 17355 | 26.59 | 21.67 | 48.26 | 74 | -25.74 | PK |

| Test mode: | | 802.11n | | Test channel: | | Highest | |
|---|---|---|---|---|---|---|---|
| Antenna Pol. | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dBuV/m) | Measure Level (dBuV/m) | Limit (dBuV/m) | Over limit(dB) | Detector |
| V | 11650 | 30.34 | 21.64 | 51.98 | 74 | -22.02 | PK |
| V | 17475 | 30.89 | 21.8 | 52.69 | 74 | -21.31 | PK |
| H | 11650 | 28.84 | 21.83 | 50.67 | 74 | -23.33 | PK |
| H | 17475 | 25.00 | 21.67 | 46.67 | 74 | -27.33 | PK |

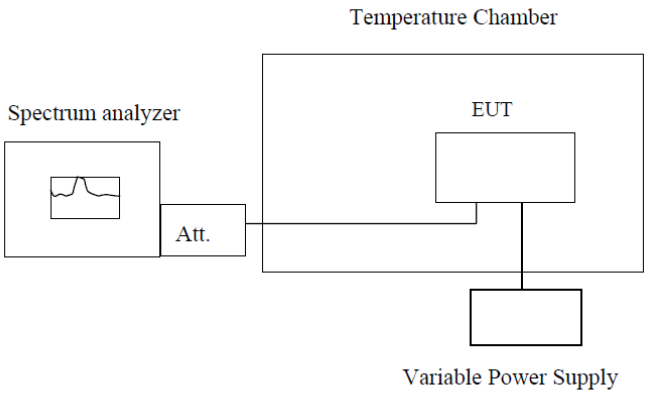
Notes:

1. Measure Level = Reading Level + Factor.

2. The test trace is same as the ambient noise (the test frequency range: 18GHz~40GHz), therefore no data appear in the report.

3. The test result on peak is lower than average limit, then average measurement needn’t be performed.

## 7.8 Frequency stability

| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.407(g)<br>RSS-Gen Section 8.11 |
| Test Method: | ANSI C63.10:2013, FCC Part 2.1055 & RSS-Gen |
| Limit: | Manufactures 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 |
| Test Procedure: | The EUT was setup to ANSI C63.4, 2003; tested to 2.1055 for compliance to FCC Part 15.407(g) requirements. |
| Test setup: |  <br>**Note :** Measurement setup for testing on Antenna connector |
| Test Instruments: | Refer to section 6 for details |
| Test mode: | Refer to section 5.2 for details |
| Test results: | Pass |

**Measurement data:**

| Frequency stability versus Temp. | | | | | |
|---|---|---|---|---|---|
| Power Supply: DC 7.4V | | | | | |
| Temp. (°C) | Operating Frequency (MHz) | 0 minute | 2 minute | 5 minute | 10 minute |
| | | Measured Frequency (MHz) | Measured Frequency (MHz) | Measured Frequency (MHz) | Measured Frequency (MHz) |
| -30 | 5745 | 5745.879 | 5745.427 | 5745.896 | 5745.596 |
| | 5785 | 5785.434 | 5785.878 | 5785.169 | 5785.245 |
| | 5825 | 5825.406 | 5825.374 | 5825.399 | 5825.547 |
| -20 | 5745 | 5745.216 | 5745.250 | 5745.276 | 5745.369 |
| | 5785 | 5785.790 | 5785.344 | 5785.999 | 5785.610 |
| | 5825 | 5825.760 | 5825.171 | 5825.216 | 5825.050 |
| -10 | 5745 | 5745.565 | 5745.639 | 5745.172 | 5745.246 |
| | 5785 | 5785.546 | 5785.681 | 5785.018 | 5785.082 |
| | 5825 | 5825.928 | 5825.989 | 5825.994 | 5825.569 |
| 0 | 5745 | 5745.455 | 5745.055 | 5745.940 | 5745.047 |
| | 5785 | 5785.715 | 5785.921 | 5785.044 | 5785.898 |
| | 5825 | 5825.505 | 5825.175 | 5825.678 | 5825.629 |
| 10 | 5745 | 5745.635 | 5745.835 | 5745.706 | 5745.367 |
| | 5785 | 5785.389 | 5785.105 | 5785.488 | 5785.694 |
| | 5825 | 5825.737 | 5825.903 | 5825.754 | 5825.509 |
| 20 | 5745 | 5745.540 | 5745.224 | 5745.803 | 5745.794 |
| | 5785 | 5785.699 | 5785.926 | 5785.876 | 5785.584 |
| | 5825 | 5825.665 | 5825.795 | 5825.392 | 5825.861 |
| 30 | 5745 | 5745.123 | 5745.079 | 5745.685 | 5745.554 |
| | 5785 | 5785.959 | 5785.439 | 5785.573 | 5785.292 |
| | 5825 | 5825.591 | 5825.651 | 5825.144 | 5825.529 |
| 40 | 5745 | 5745.074 | 5745.681 | 5745.129 | 5745.902 |
| | 5785 | 5785.749 | 5785.153 | 5785.629 | 5785.250 |
| | 5825 | 5825.306 | 5825.958 | 5825.731 | 5825.606 |
| 50 | 5745 | 5745.866 | 5745.438 | 5745.052 | 5745.795 |
| | 5785 | 5785.311 | 5785.931 | 5785.206 | 5785.910 |
| | 5825 | 5825.038 | 5825.117 | 5825.432 | 5825.152 |

| Frequency stability versus Voltage | | | | | |
|---|---|---|---|---|---|
| Temperature: 25°C | | | | | |
| Power Supply (VDC) | Operating Frequency (MHz) | 0 minute | 2 minute | 5 minute | 10 minute |
| | | Measured Frequency (MHz) | Measured Frequency (MHz) | Measured Frequency (MHz) | Measured Frequency (MHz) |
| 7.8 | 5745 | 5745.788 | 5745.511 | 5745.202 | 5745.343 |
| | 5785 | 5785.890 | 5785.834 | 5785.952 | 5785.107 |
| | 5825 | 5825.884 | 5825.401 | 5825.654 | 5825.866 |
| 6.7 | 5745 | 5745.995 | 5745.453 | 5745.736 | 5745.555 |
| | 5785 | 5785.222 | 5785.001 | 5785.486 | 5785.991 |
| | 5825 | 5825.773 | 5825.455 | 5825.769 | 5825.918 |

# 8 Test Setup Photo

Reference to the **appendix I** for details.

# 9 EUT Constructional Details

Reference to the **appendix II** for details.

------END------