# FCC PART 15E TEST REPORT FOR CERTIFICATION
On Behalf of

Altai Technologies Limited

Altai A8n (ac) Super WiFi Base Station

WA8011NAC-X

FCC ID: UCC-WA8011NAC-X

Prepared for : Altai Technologies Limited
Units 209, 2/F, Lakeside 2.10 Science Park West Avenue,
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Report Number : ACS-F16073
Date of Test : Feb.18~Mar.14, 2016
Date of Report : Apr.29, 2016

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# TEST REPORT CERTIFICATION

| | | |
|---|---|---|
| Applicant | : | Altai Technologies Limited |
| Manufacturer | : | Altai Technologies Limited |
| EUT Description | : | Altai A8n (ac) Super WiFi Base Station |
| FCC ID | : | UCC-WA8011NAC-X |
| (A) Model No. | : | WA8011NAC-X |
| (B) Power Supply | : | DC 56V |
| (C) Test Voltage | : | DC 56V From POE Input AC 120V/60Hz |

Tested for comply with:
FCC CFR47 Part 15 Subpart E: 2014

Test procedure used:
ANSI C63.10: 2013
KDB789033D01

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC Part 15 Subpart E requirements. The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC and IC requirements. This report contains data that are not covered by the NVLAP accreditation.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Feb.18~Mar.14, 2016 Report of date: Apr.29, 2016

Prepared by : Cindy Zhu
Cindy Zhu / Assistant

Reviewed by :
Sunny Lu / Assistant Manager

AUDIX® 信華科技（深圳）有限公司
Audix Technology (Shenzhen) Co., Ltd.
EMC 部門報告專用章
Stamp only for EMC Dept. Report
Signature: David Jin

Approved & Authorized Signer :
David Jin / Manager

# 1. SUMMARY OF STANDARDS AND RESULTS

## 1.1.Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

| EMISSION | | |
|---|---|---|
| **Description of Test Item** | **Standard** | **Results** |
| Power Line Conducted Emission | FCC Part 15: 15.207 | PASS |
| Radiated Emission | FCC Part 15: 15.209 | PASS |
| Band Edge Compliance | FCC Part 15: 15.407 | PASS |
| 6dB&26Bandwidth Test | FCC Part 15: 15.407(a) | PASS |
| Output Power Test | FCC Part 15: 15.407(a) | PASS |
| Power Spectral Density Test | FCC Part 15: 15.407(a) | PASS |
| Frequency Stability | FCC Part 15: 15.407(g) | PASS |
| Antenna requirement | FCC Part 15: 15.203 | PASS |
| N/A is an abbreviation for Not Applicable. | | |

# 2. GENERAL INFORMATION

## 2.1.Description of Device (EUT)

| | |
|---|---|
| Product Name | : Altai A8n (ac) Super WiFi Base Station |
| Model No. | : WA8011NAC-X |
| FCC ID | : UCC-WA8011NAC-X |
| Radio | : IEEE802.11 a/b/g/n/ac |
| Operation Frequency | : IEEE 802.11a: 5745MHz—5825MHz<br>IEEE 802.11b: 2412MHz—2462MHz<br>IEEE 802.11g: 2412MHz—2462MHz<br>IEEE 802.11n HT20: 2412MHz—2462MHz; 5745MHz—5825MHz<br>IEEE 802.11n HT40: 2422MHz—2452MHz; 5755MHz—5795MHz<br>IEEE 802.11ac VHT20: 5745MHz—5825MHz<br>IEEE 802.11ac VHT40: 5755MHz—5795MHz<br>IEEE 802.11ac VHT80: 5775MHz |
| Modulation Technology | : IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK)<br>IEEE 802.11a/g: OFDM(64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11ac VHT20, VHT40, VHT80: OFDM(16QAM, 64QAM, 256QAM, QPSK, BPSK)<br>IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM,QPSK,BPSK) |
| Antenna Assembly Gain | : 2.4GHz: Sector Antenna, 14dBi gain,<br>5GHz: Panel Antenna, 20dBi gain |
| Applicant | : Altai Technologies Limited<br>Units 209, 2/F, Lakeside 2.10 Science Park West Avenue, Hong Kong Science Park, Shatin, Hong Kong, China |
| Manufacturer | : Altai Technologies Limited<br>Units 209, 2/F, Lakeside 2.10 Science Park West Avenue, Hong Kong Science Park, Shatin, Hong Kong, China |
| POE | : Manufacturer: FSGREAT;M/N: GRT-560110A<br>INPUT:AC 100-240V 50/60Hz<br>OUTPUT:56V 1100mA |
| Date of Test | : Feb.18~Mar.14, 2016 |
| Date of Receipt | : Feb.16, 2016 |
| Sample Type | : Prototype production |

## 2.2.Test Information

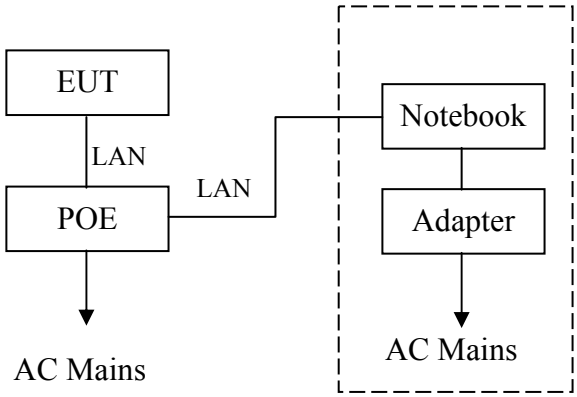
A special test software was used to control EUT work in Continuous TX mode (nearly 100% duty cycle), and select test channel, wireless mode and data rate.

| Tested mode, channel, and data rate information | | | |
|---|---|---|---|
| Mode | data rate (Mpbs)(see Note) | Channel | Frequency (MHz) |
| IEEE 802.11a | 6 | Low :CH149 | 5745 |
| | 6 | Middle: CH157 | 5785 |
| | 6 | High: CH165 | 5825 |
| IEEE 802.11nHT20 | MCS0 | Low :CH149 | 5745 |
| | MCS0 | Middle: CH157 | 5785 |
| | MCS0 | High: CH165 | 5825 |
| IEEE 802.11nHT40 | MCS0 | Low :CH151 | 5755 |
| | MCS0 | High: CH159 | 5795 |
| IEEE 802.11acVHT20 | MCS0 | Low :CH149 | 5745 |
| | MCS0 | Middle: CH157 | 5785 |
| | MCS0 | High: CH165 | 5825 |
| IEEE 802.11acVHT40 | MCS0 | Low :CH151 | 5755 |
| | MCS0 | High: CH159 | 5795 |
| IEEE 802.11acVHT80 | MCS0 | CH155 | 5775 |
| Note: 1. According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.<br>Note: 2. This device use MIMO Mode, test with two antenna transmit simultaneously and comply with KDB662911D01 V02r01. | | | |

## 2.1.Tested Supporting System Details

| No. | Description | ACS No. | Manufacturer | Model | Serial Number |
|---|---|---|---|---|---|
| 1 | Notebook | N/A | DELL | PP09S | N/A |
| | | Power Cord: Unshielded, Detachable, 1.8m<br>Power Adapter: Manufacturer: DELL, M/N: LA65NS1-00<br>Cable: Unshielded, Detachable, 4.0m(Bond one ferrite core) | | | |

## 2.2.Block diagram of connection between the EUT and simulators




**(EUT: Altai A8n (ac) Super WiFi Base Station)**

## 2.3. Test Facility

Site Description

| | | |
|---|---|---|
| Name of Firm | : | Audix Technology (Shenzhen) Co., Ltd.<br>No. 6, Ke Feng Rd., 52 Block, Shenzhen Science & Industrial Park,Nantou, Shenzhen, Guangdong, China |
| 3m Anechoic Chamber | : | Certificated by FCC, USA<br>Registration Number: 90454<br>Valid Date: Dec.30, 2017 |
| 3m & 10m Anechoic Chamber | : | Certificated by FCC, USA<br>Registration Number: 794232<br>Valid Date: Jul.12, 2016 |
| EMC Lab. | : | Certificated by Industry Canada<br>Registration Number: IC 5183A-1<br>Valid Date: May.14, 2017 |
| | : | Certificated by DAkkS, Germany<br>Registration No: D-PL-12151-01-00<br>Valid Date: Dec.15, 2016 |
| | : | Accredited by NVLAP, USA<br>NVLAP Code: 200372-0<br>Valid Date: Mar.31, 2017 |

## 2.4. Measurement Uncertainty (95% confidence levels, k=2)

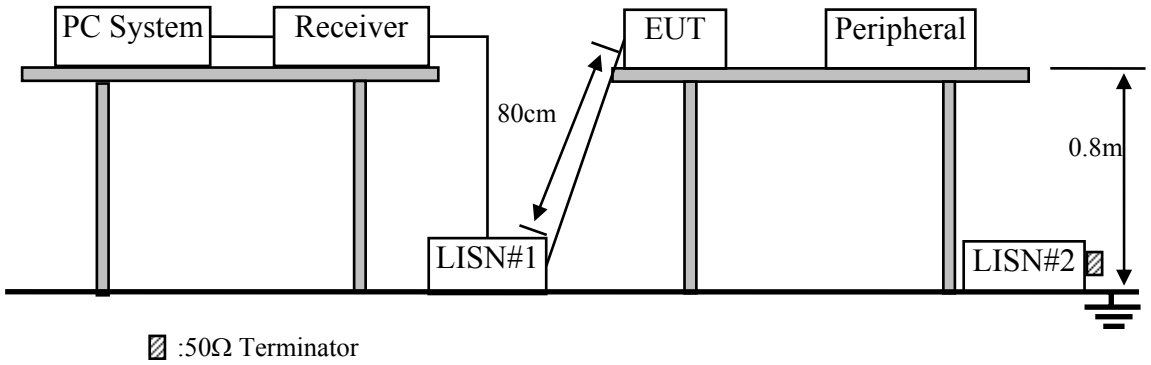
| Test Item | Uncertainty |
|---|---|
| Uncertainty for Conduction emission test in No. 1 Conduction | 3.4dB (150KHz to 30MHz) |
| Uncertainty for Radiation Emission test in 3m chamber | 2.6 dB(30~200MHz, Polarization: H) |
| | 2.6 dB(30~200MHz, Polarization: V) |
| | 3.0 dB(200M~1GHz, Polarization: H) |
| | 2.8 dB(200M~1GHz, Polarization: V) |
| Uncertainty for Radiation Emission test in 3m chamber (1GHz-18GHz) | 6.3 dB (1~6GHz, Distance: 3m) |
| | 5.7 dB (6~18GHz, Distance: 3m) |
| Uncertainty for Radiated Spurious Emission test in RF chamber | 3.6 dB |
| Uncertainty for Conduction Spurious emission test | 2.0 dB |
| Uncertainty for Output power test | 0.8 dB |
| Uncertainty for Bandwidth test | 83 kHz |
| Uncertainty for DC power test | 0.1 % |
| Uncertainty for test site temperature and humidity | 0.6℃ |
| | 3% |

# 3. POWER LINE CONDUCTED EMISSION TEST

## 3.1.Test Equipments

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|---|---|---|---|---|---|---|
| 1. | 1# Shielding Room | AUDIX | N/A | N/A | Apr.17,15 | 1 Year |
| 2. | Test Receiver | Rohde & Schwarz | ESCI | 100842 | Apr.28,15 | 1 Year |
| 3. | L.I.S.N.#1 | Rohde & Schwarz | ESH2-Z5 | 100429 | Oct.18,15 | 1 Year |
| 4. | L.I.S.N#2 | Kyoritsu | K NW-403D | 8-1750-2 | Apr.28,15 | 1 Year |
| 5. | Terminator | Hubersuhner | 50Ω | No.1 | Apr.28,15 | 1 Year |
| 6. | Terminator | Hubersuhner | 50Ω | No.2 | Apr.28,15 | 1 Year |
| 7. | RF Cable | MIYAZAKI | 3D-2W | No.1 | Apr.28,15 | 1Year |
| 8. | Coaxial Switch | Anritsu | MP59B | 6200766906 | Apr.28,15 | 1 Year |
| 9. | Test Software | AUDIX | E3 | 6.100913a | N/A | N/A |

## 3.2.Block Diagram of Test Setup




▨ :50Ω Terminator

## 3.3.Power Line Conducted Emission Test Limits

| Frequency | Maximum RF Line Voltage | |
|---|---|---|
| | Quasi-Peak Level dB(μV) | Average Level dB(μV) |
| 150kHz ~ 500kHz | 66 ~ 56* | 56 ~ 46* |
| 500kHz ~ 5MHz | 56 | 46 |
| 5MHz ~ 30MHz | 60 | 50 |

Notes: 1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

## 3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1. Altai A8n (ac) Super WiFi Base Station (EUT)

Model Number : WA8011NAC-X
Serial Number : N/A

3.4.2. Support Equipment: As Tested Supporting System Details, in Section 2.2.

## 3.5. Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown as Section 3.2.

3.5.2. Turned on the power of all equipment.

3.5.3. PC run test software to control EUT work in Tx mode.

## 3.6. Test Procedure

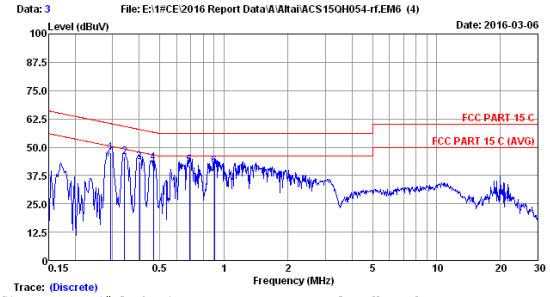
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via PC connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESCI) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

## 3.7. Power Line Conducted Emission Test Results

**PASS.** **(**All emissions not reported below are too low against the prescribed limits.)

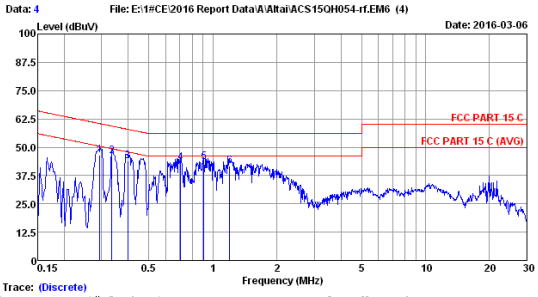



Trace: (Discrete)

Site no :1# Conduction Data No :3
Dis./Lisn :2015 ESH2-Z5 LINE
Limit :FCC PART 15 C
Env./Ins. :25.2*C/53% Engineer :Alvis-Wu
EUT :Altai A8n (ac) Super WiFi Base Station
Power Rating :DC 56V From POE Input AC 120V/60Hz
Test Mode :Tx Mode
M/N:WA8011NAC-X

| No | Freq (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.294 | 0.13 | 0.05 | 47.59 | 47.77 | 60.41 | 12.64 | QP |
| 2 | 0.341 | 0.13 | 0.06 | 45.49 | 45.68 | 59.18 | 13.50 | QP |
| 3 | 0.402 | 0.79 | 0.06 | 42.75 | 43.60 | 57.81 | 14.21 | QP |
| 4 | 0.466 | 0.33 | 0.06 | 42.80 | 43.19 | 56.58 | 13.39 | QP |
| 5 | 0.690 | 0.15 | 0.06 | 41.87 | 42.08 | 56.00 | 13.92 | QP |
| 6 | 0.904 | 0.16 | 0.07 | 41.53 | 41.76 | 56.00 | 14.24 | QP |

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.




Trace: (Discrete)

Site no :1# Conduction Data No :4
Dis./Lisn :2015 ESH2-Z5 NEUTRAL
Limit :FCC PART 15 C
Env./Ins. :25.2*C/53% Engineer :Alvis-Wu
EUT :Altai A8n (ac) Super WiFi Base Station
Power Rating :DC 56V From POE Input AC 120V/60Hz
Test Mode :Tx Mode
M/N:WA8011NAC-X

| No | Freq (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.294 | 0.13 | 0.05 | 46.35 | 46.53 | 60.41 | 13.88 | QP |
| 2 | 0.336 | 0.13 | 0.06 | 45.85 | 46.04 | 59.31 | 13.27 | QP |
| 3 | 0.398 | 0.14 | 0.06 | 43.65 | 43.85 | 57.90 | 14.05 | QP |
| 4 | 0.705 | 0.15 | 0.06 | 43.04 | 43.25 | 56.00 | 12.75 | QP |
| 5 | 0.909 | 0.16 | 0.07 | 43.33 | 43.56 | 56.00 | 12.44 | QP |
| 6 | 1.197 | 0.17 | 0.08 | 41.27 | 41.52 | 56.00 | 14.48 | QP |

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

# 4. RADIATED EMISSION TEST

## 4.1.Test Equipment

4.1.1.For frequency range 30 MHz ~1000MHz (In 3m Anechoic Chamber)

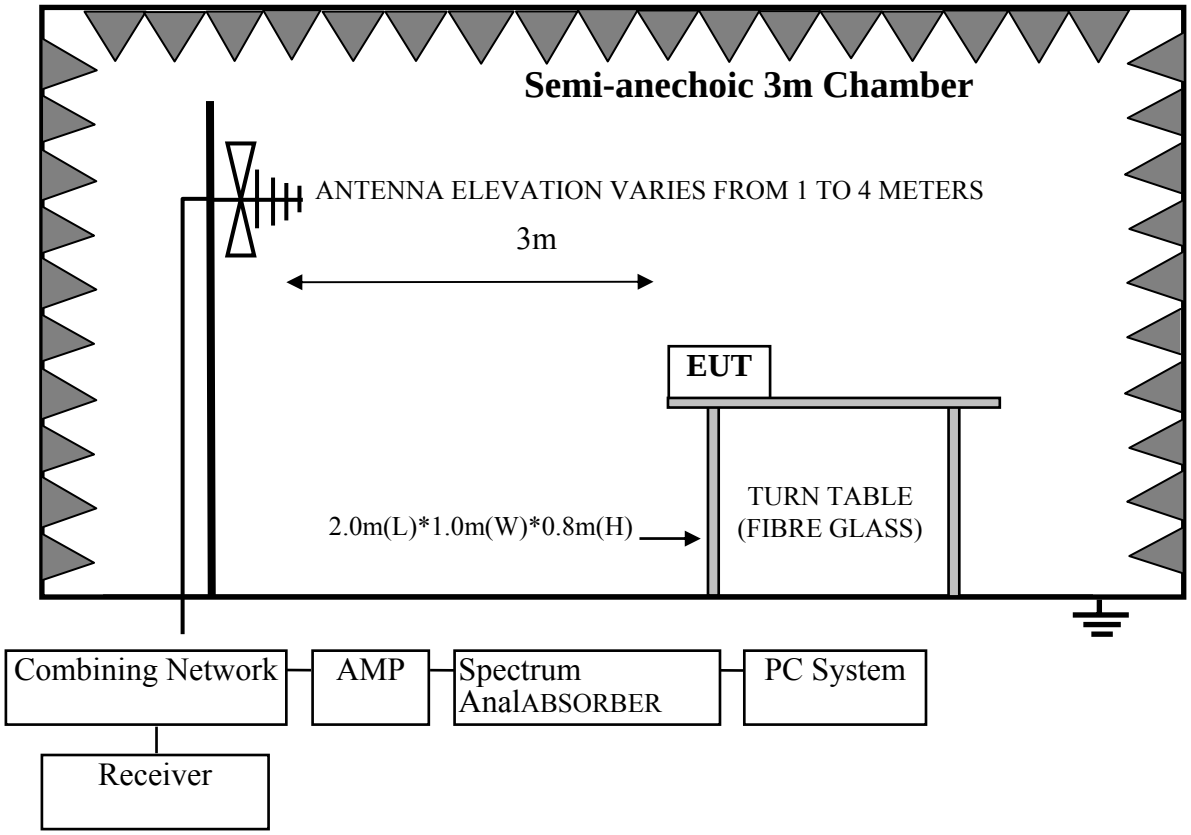
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|---|---|---|---|---|---|---|
| 1. | 3#Chamber | AUDIX | N/A | N/A | Mar.28,15 | 1 Year |
| 2. | EMI Spectrum | Agilent | E4407B | MY41440292 | Apr.28,15 | 1 Year |
| 3. | Test Receiver | Rohde & Schwarz | ESVS10 | 834468/011 | Apr.28,15 | 1 Year |
| 4. | Amplifier | HP | 8447D | 2648A04738 | Apr.28,15 | 1 Year |
| 5. | Trilog-Broadband Antenna | SCHWARZBECK | VULB 9168 | 9168-493 | May.06,15 | 1 Year |
| 6. | RF Cable | MIYAZAKI | CFD400-NW(3.5M) | No.3 | Apr.28,15 | 1 Year |
| 7. | RF Cable | MIYAZAKI | CFD400-LW(22M) | No.7 | Apr.28,15 | 1 Year |
| 8. | Coaxial Switch | Anritsu | MP59B | 6201397222 | Apr.28,15 | 1 Year |
| 9. | Test Software | AUDIX | e3 | 6.2009-5-21a(n) | N/A | N/A |

4.1.2.For frequency range 1GHz~40GHz (In 3m Anechoic Chamber)

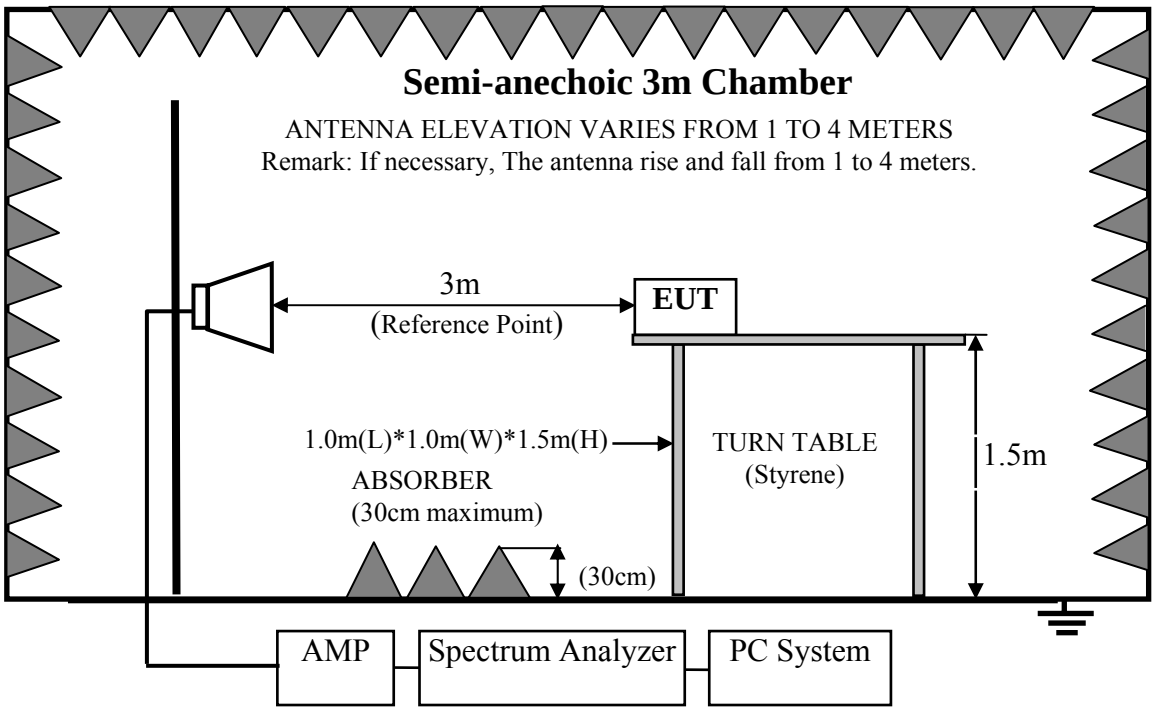
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|---|---|---|---|---|---|---|
| 1. | Spectrum Analyzer | Agilent | E4446A | US44300459 | Apr.28,15 | 1 Year |
| 2. | Horn Antenna | ETS | 3115 | 9510-4877 | Oct.15,15 | 1 Year |
| 3. | Amplifier | Agilent | 8449B | 3008A02495 | Apr.28,15 | 1 Year |
| 4. | RF Cable | Hubersuhner | SUCOFLEX106 | 77977/6 | Apr.28,15 | 1 Year |
| 5. | Horn Antenna | ETS | 3116 | 00060089 | Oct.15,15 | 1 Year |
| 6. | Test Software | AUDIX | e3 | 6.2009-5-21a(n) | N/A | N/A |

## 4.2.Block Diagram of Test Setup

For frequency range 30MHz-1000MHz




For frequency range 1GHz-40GHz



## 4.3.Radiated Emission Limit

For transmitters operating in the 5.15-5.25 GHz; 5.25-5.35GHz; 5.47-5.725GHz, 5.725-5.850GHz band: all emissions outside of those band shall not exceed an EIRP of -27 dBm/MHz. Unwanted emissions below 1 GHz and those emissions appearing within 15.205 restricted frequency bands must comply with the general field strength limits set forth in Section 15.209

4.3.1.15.209 limits

| FREQUENCY MHz | DISTANCE Meters | FIELD STRENGTHS LIMIT | |
|---|---|---|---|
| | | μV/m | dB(μV)/m |
| 30 ~ 88 | 3 | 100 | 40.0 |
| 88 ~ 216 | 3 | 150 | 43.5 |
| 216 ~ 960 | 3 | 200 | 46.0 |
| 960 ~ 1000 | 3 | 500 | 54.0 |
| Above 1000 | 3 | 74.0 dB(μV)/m (Peak)<br>54.0 dB(μV)/m (Average) | |

Remarks： (1) Emission level dBμV = 20 log Emission level μV/m

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.3.2.15.205 Restricted bands of operation

| MHz | MHz | MHz | GHz |
|---|---|---|---|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| [1]0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 |
| 4.20725 - 4.20775 | 73 - 74.6 | 1645.5 - 1646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 - 1710 | 10.6 - 12.7 |
| 6.26775 - 6.26825 | 108 - 121.94 | 1718.8 - 1722.2 | 13.25 - 13.4 |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 - 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | 15.35 - 16.2 |
| 8.362 - 8.366 | 156.52475 - 156.52525 | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.7 - 156.9 | 2690 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 162.0125 - 167.17 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 167.72 - 173.2 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 240 - 285 | 3345.8 - 3358 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 322 - 335.4 | 3600 - 4400 | ([2]) |

## 4.4.EUT Configuration on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

4.4.1. Altai A8n (ac) Super WiFi Base Station (EUT)

Model Number : WA8011NAC-X
Serial Number : N/A

4.4.2. Support Equipment: As Tested Supporting System Details, in Section 2.2.

## 4.5. Operating Condition of EUT

4.5.1. Setup the EUT and simulator as shown as Section 4.2.

4.5.2. Turn on the power of all equipments.

4.5.3. Let EUT work in Tx mode.

## 4.6. Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground for frequency 30MHz~1000MHz, 1.5 meter high above ground for frequency above 1GHz and put the absorbing with 2.4m(L)*2.4m(W)*0.3m(H) on the ground . The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it.EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna for frequency 30MHz~1000MHz, and the Horm antenna is used as receiving antenna for frequency above 1GHz. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10-2013 on radiated emission Test.

For emissions below 1GHz and those emissions appearing within 15.205 restricted frequency bands use below procedure:

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 1MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

For the emissions above 1GHz and not appearing within 15.205 restricted frequency bands use below procedure:

(1).The maximum emission at 3m distance was measured and recorded with receive antenna in both vertical and horizontal by rotating the turntable and by lowering the receive antenna.

(2).The EUT was then removed and replaced with a substitution antenna in the same position and the substitution antenna must have the same polarization with the receive antenna.

(3). A signal which have the same frequency obtained in step 2 was fed to the substitution, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver, the level of the signal generator was adjusted until the measured field strength level in step 2 was obtained, recorded the level of the signal generator.

(4).Repeated step 4 with both antenna polarizations

(5).The spurious emissions is equal to the power supplied by the signal generator and corrections due to the gain of the substitution antenna and the cable loss between the signal generator and the substitution antenna. or use procedure (6).

(6). Per KDB789033 clause H 2)d).if the test distance is 3m,the EIRP(dBm)=E(dBuv/m)-95.2 Get the result of all unwanted emission outside the restricted band is less than the -27dBm/MHz.

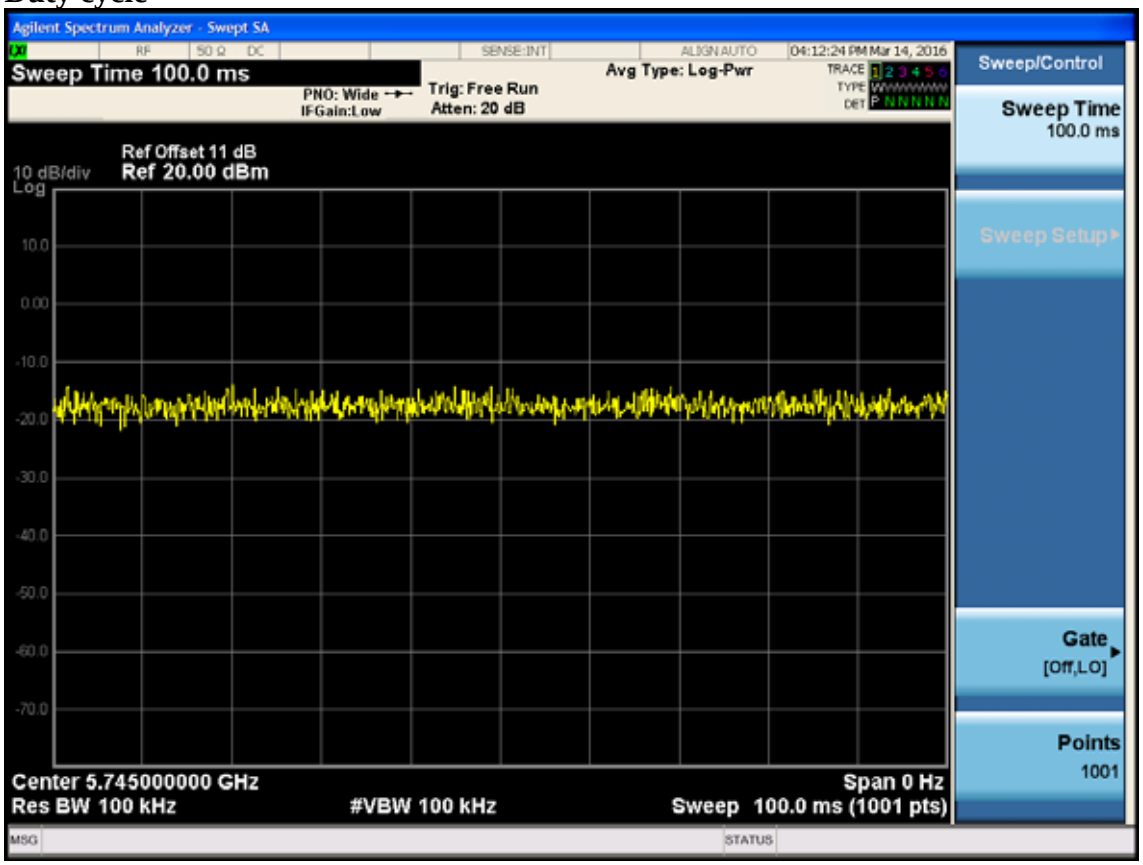
We had checked frequency range that is 30MHz to 10$^{th}$ harmonic (40GHz) and no any emissions were found from 18GHz to 40GHz, so the radiated emission from 18GHz to 40GHz were not record.

## 4.7.Radiated Emission Test Results

**PASS.**

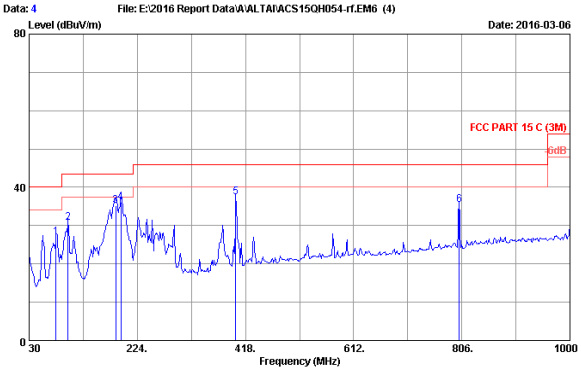
All the emissions from 30MHz to 1 GHz were comply with 15.209 limits.
All other emission comply with 15.407 (b)(1) requirements.

**Duty cycle**




**Note: The Duty Cycle is close to 100%.**

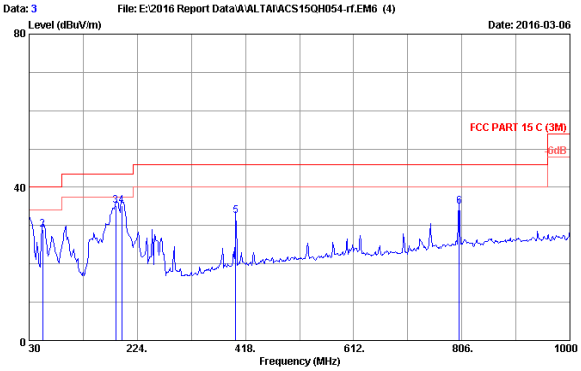
## Frequency: 30MHz~1GHz




Site no. : 3m Chamber Data no. : 4
Dis. / Ant. : 3m 2015 CBL6112D 35375 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 20.6*C/55% Engineer : Donjon
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : Tx Mode
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | 78.500 | 7.69 | 0.98 | 18.21 | 26.88 | 40.00 | 13.12 | QP |
| 2 | 99.840 | 11.50 | 1.10 | 18.18 | 30.78 | 43.50 | 12.72 | QP |
| 3 | 185.200 | 10.15 | 1.43 | 23.54 | 35.12 | 43.50 | 8.38 | QP |
| 4 | 194.900 | 10.45 | 1.49 | 24.12 | 36.06 | 43.50 | 7.44 | QP |
| 5 | 400.540 | 16.91 | 2.20 | 18.29 | 37.40 | 46.00 | 8.60 | QP |
| 6 | 801.150 | 21.11 | 3.26 | 11.05 | 35.42 | 46.00 | 10.58 | QP |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

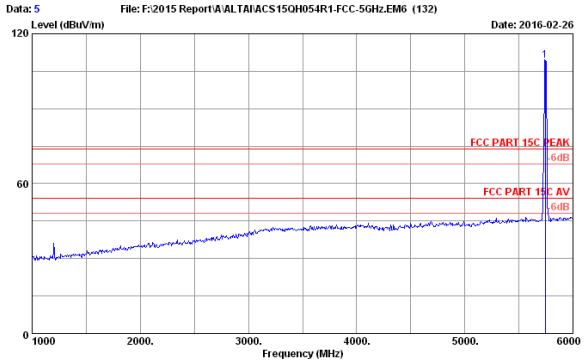



Site no. : 3m Chamber Data no. : 3
Dis. / Ant. : 3m 2015 CBL6112D 35375 Ant. pol. : VERTICAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 20.6*C/55% Engineer : Donjon
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : Tx Mode
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|
| 1 | 30.000 | 20.30 | 0.51 | 9.49 | 30.30 | 40.00 | 9.70 | QP |
| 2 | 54.250 | 8.48 | 0.85 | 19.71 | 29.04 | 40.00 | 10.96 | QP |
| 3 | 185.200 | 10.15 | 1.43 | 23.64 | 35.22 | 43.50 | 8.28 | QP |
| 4 | 195.870 | 10.48 | 1.49 | 23.28 | 35.25 | 43.50 | 8.25 | QP |
| 5 | 400.540 | 16.91 | 2.20 | 13.51 | 32.62 | 46.00 | 13.38 | QP |
| 6 | 801.150 | 21.11 | 3.26 | 10.70 | 35.07 | 46.00 | 10.93 | QP |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

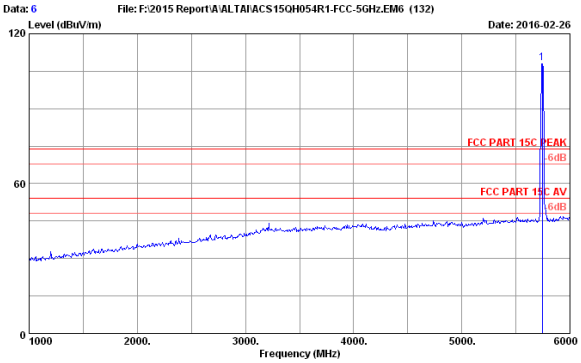
## Frequency: 1GHz~18GHz




Site no. : 3m Chamber Data no. : 5
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5745MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5745.000 | 34.55 | 9.90 | 35.11 | 99.88 | 109.22 | 74.00 | -35.22 | Peak |

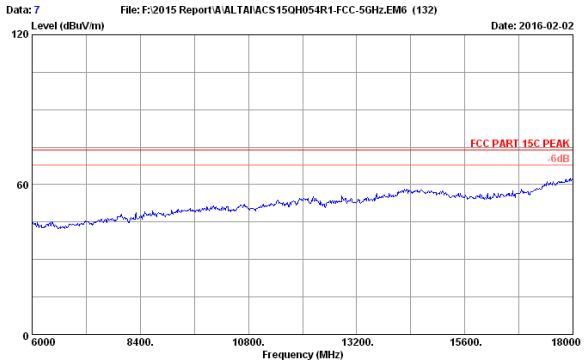
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



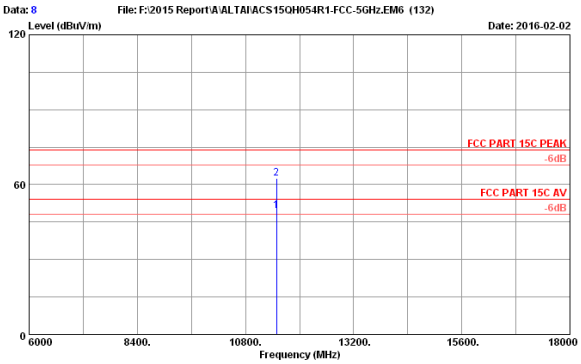

Site no. : 3m Chamber Data no. : 6
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5745MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5745.000 | 34.55 | 9.90 | 35.11 | 98.86 | 108.20 | 74.00 | -34.20 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



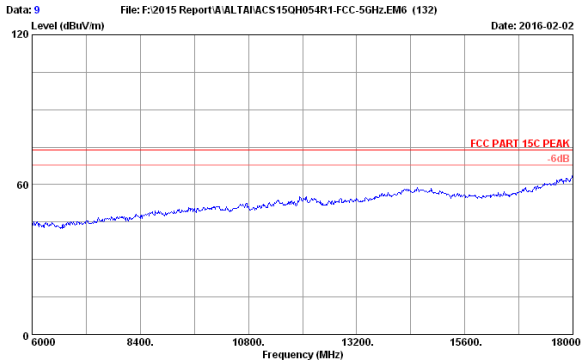

Site no. : 3m Chamber Data no. : 7
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5745MHz Tx
WA8011NAC-X



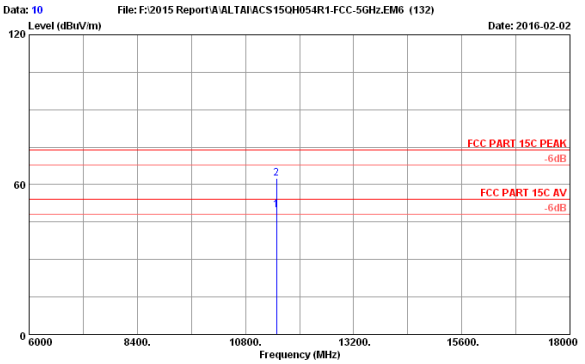

Site no. : 3m Chamber Data no. : 8
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5745MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 11490.000 | 39.09 | 14.54 | 35.33 | 31.07 | 49.37 | 54.00 | 4.63 | Average |
| 2 | 11490.000 | 39.09 | 14.54 | 35.33 | 44.26 | 62.56 | 74.00 | 11.44 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



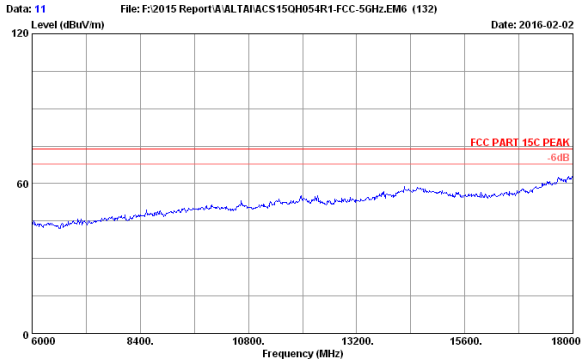

Site no. : 3m Chamber Data no. : 9
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5745MHz Tx
WA8011NAC-X



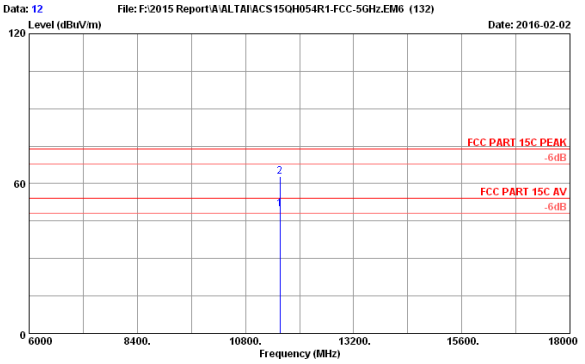

Site no. : 3m Chamber Data no. : 10
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5745MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 11490.000 | 39.09 | 14.54 | 35.33 | 31.47 | 49.77 | 54.00 | 4.23 | Average |
| 2 | 11490.000 | 39.09 | 14.54 | 35.33 | 44.27 | 62.57 | 74.00 | 11.43 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



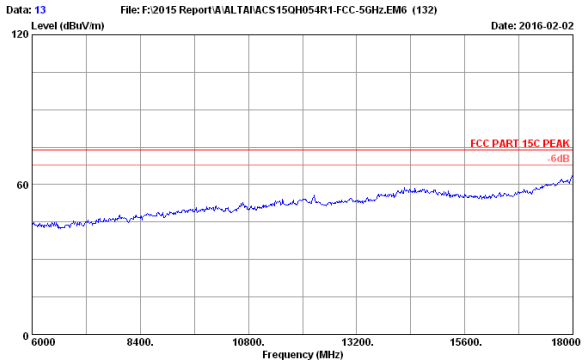

Site no. : 3m Chamber Data no. : 11
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5785MHz Tx
WA8011NAC-X



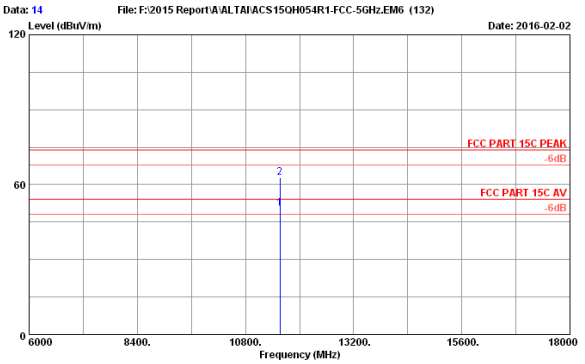

Site no. : 3m Chamber Data no. : 12
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5785MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 11570.000 | 39.14 | 14.60 | 35.31 | 31.48 | 49.91 | 74.00 | 24.09 | Average |
| 2 | 11570.000 | 39.14 | 14.60 | 35.31 | 44.26 | 62.69 | 74.00 | 11.31 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



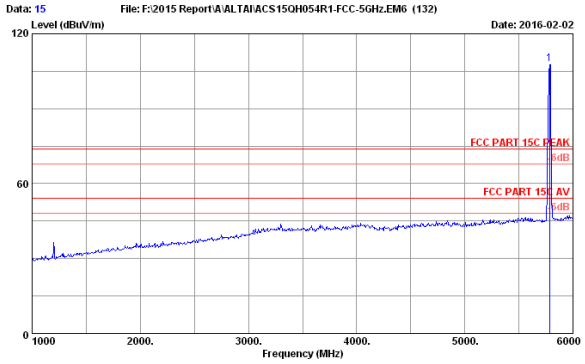

Site no. : 3m Chamber Data no. : 13
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5785MHz Tx
WA8011NAC-X




Site no. : 3m Chamber Data no. : 14
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5785MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 11570.000 | 39.14 | 14.60 | 35.31 | 32.04 | 50.47 | 54.00 | 3.53 | Average |
| 2 | 11570.000 | 39.14 | 14.60 | 35.31 | 44.26 | 62.69 | 74.00 | 11.31 | Peak |

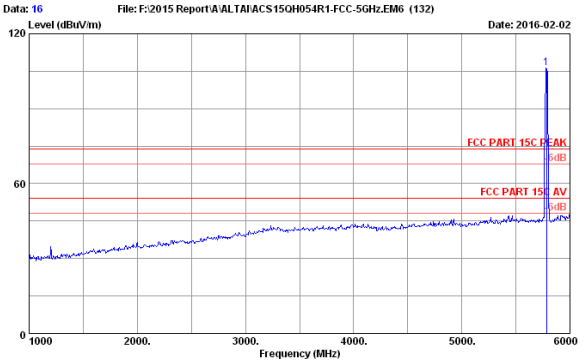
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 15
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5785MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5785.000 | 34.57 | 9.91 | 35.10 | 98.65 | 108.03 | 74.00 | -34.03 | Peak |

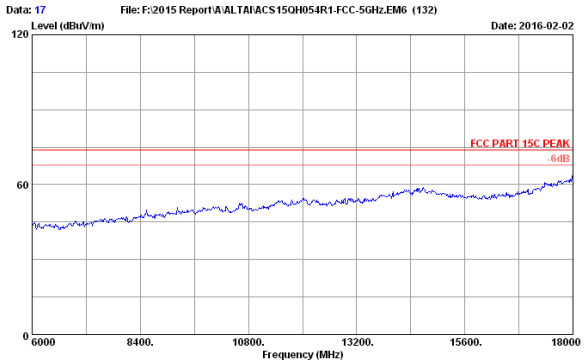
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



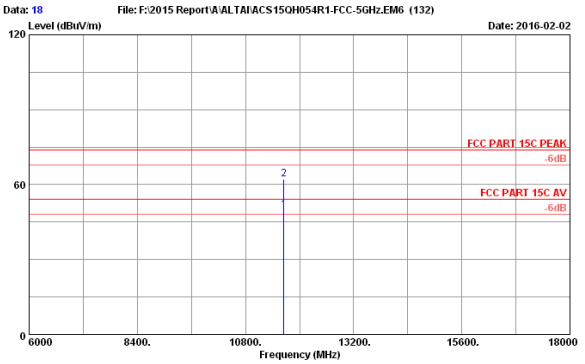

Site no. : 3m Chamber Data no. : 16
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5785MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5785.000 | 34.57 | 9.91 | 35.10 | 96.85 | 106.23 | 74.00 | -32.23 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



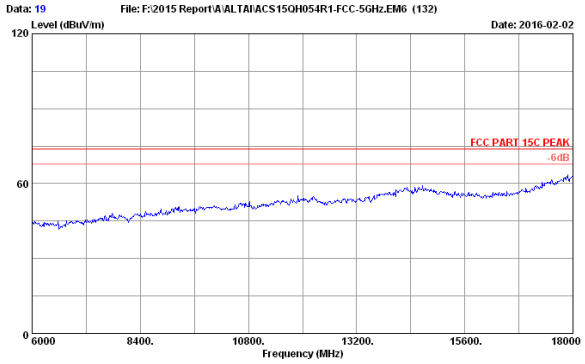

Site no. : 3m Chamber Data no. : 17
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5825MHz Tx
WA8011NAC-X



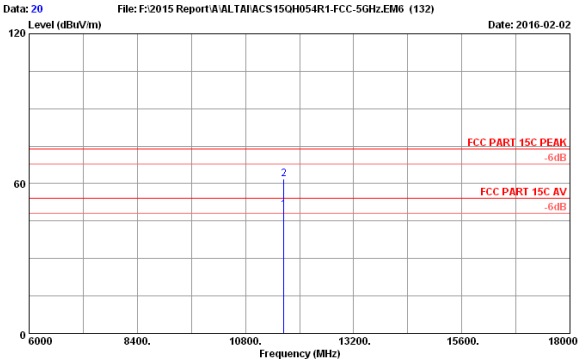

Site no. : 3m Chamber Data no. : 18
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5825MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 11650.000 | 39.19 | 14.66 | 35.29 | 31.34 | 49.90 | 54.00 | 4.10 | Average |
| 2 | 11650.000 | 39.19 | 14.66 | 35.29 | 43.76 | 62.32 | 74.00 | 11.68 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



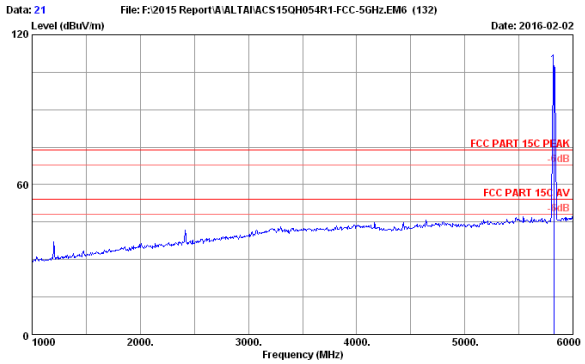

Site no. : 3m Chamber Data no. : 19
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5825MHz Tx
WA8011NAC-X




Site no. : 3m Chamber Data no. : 20
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5825MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 11650.000 | 39.19 | 14.66 | 35.29 | 30.89 | 49.45 | 54.00 | 4.55 | Average |
| 2 | 11650.000 | 39.19 | 14.66 | 35.29 | 43.26 | 61.82 | 74.00 | 12.18 | Peak |

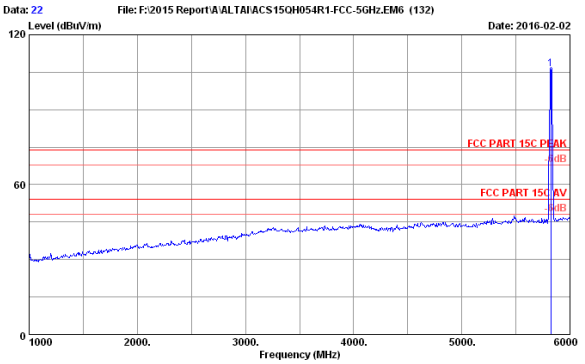
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 21
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5825MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Emission Reading (dBuV) | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5825.000 | 34.60 | 9.93 | 35.08 | 98.59 | 108.04 | 74.00 | -34.04 | Peak |

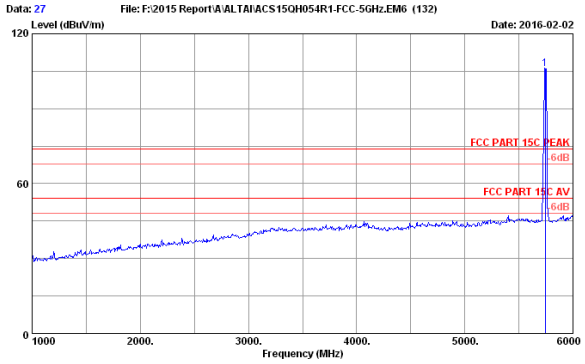
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 22
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5825MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Emission Reading (dBuV) | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5825.000 | 34.60 | 9.93 | 35.08 | 96.89 | 106.34 | 74.00 | -32.34 | Peak |

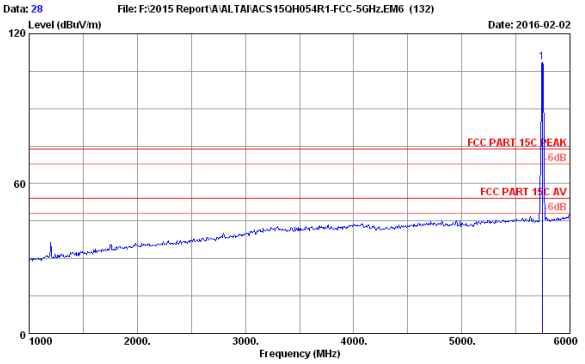
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 27
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5745MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Emission Reading (dBuV) | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5745.000 | 34.55 | 9.90 | 35.11 | 96.77 | 106.11 | 74.00 | -32.11 | Peak |

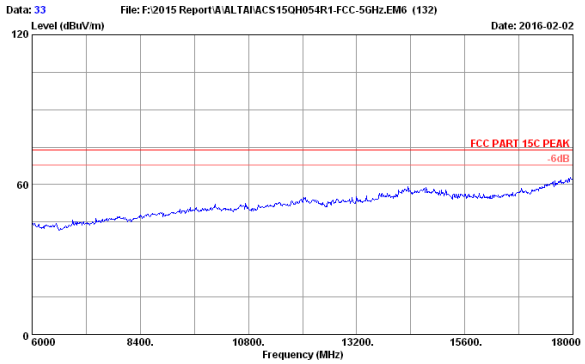
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



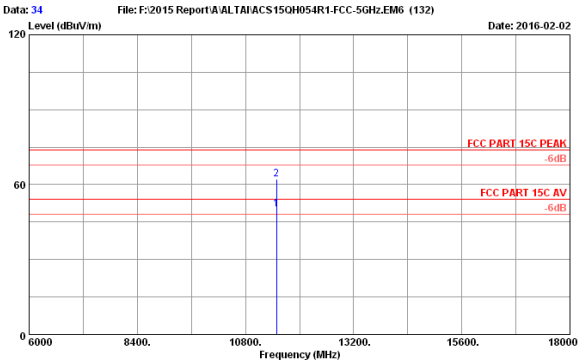

Site no. : 3m Chamber Data no. : 28
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5745MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Emission Reading (dBuV) | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5745.000 | 34.55 | 9.90 | 35.11 | 99.25 | 108.59 | 74.00 | -34.59 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



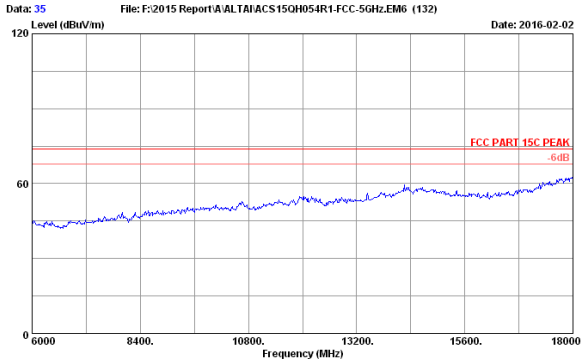

Site no. : 3m Chamber Data no. : 33
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5745MHz Tx
WA8011NAC-X



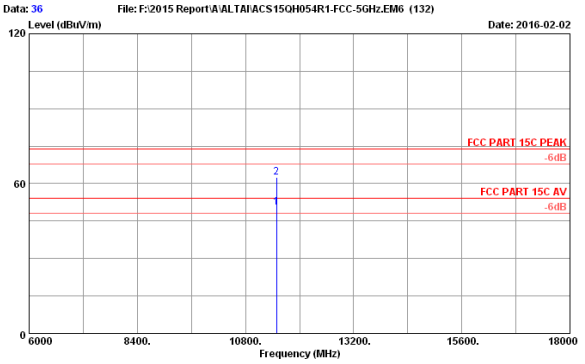

Site no. : 3m Chamber Data no. : 34
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5745MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 11490.000 | 39.09 | 14.54 | 35.33 | 31.75 | 50.05 | 54.00 | 3.95 | Average |
| 2 | 11490.000 | 39.09 | 14.54 | 35.33 | 43.87 | 62.17 | 74.00 | 11.83 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



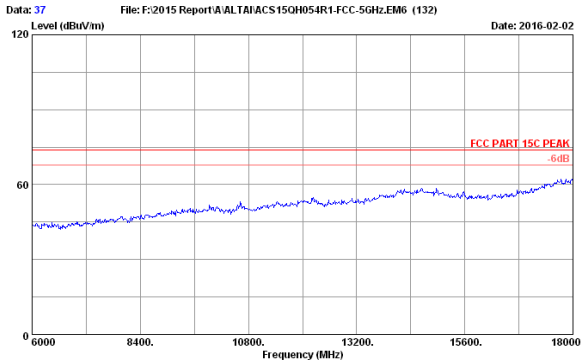

Site no. : 3m Chamber Data no. : 35
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5745MHz Tx
WA8011NAC-X



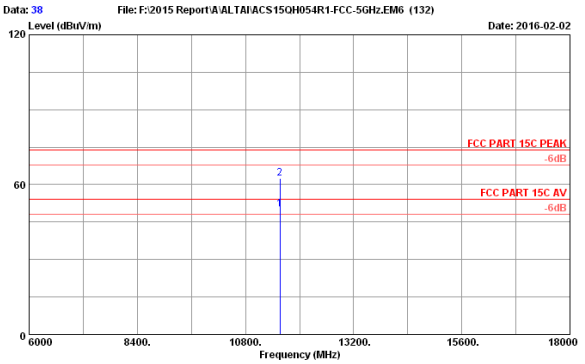

Site no. : 3m Chamber Data no. : 36
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5745MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 11490.000 | 39.09 | 14.54 | 35.33 | 32.05 | 50.35 | 54.00 | 3.65 | Average |
| 2 | 11490.000 | 39.09 | 14.54 | 35.33 | 44.07 | 62.37 | 74.00 | 11.63 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



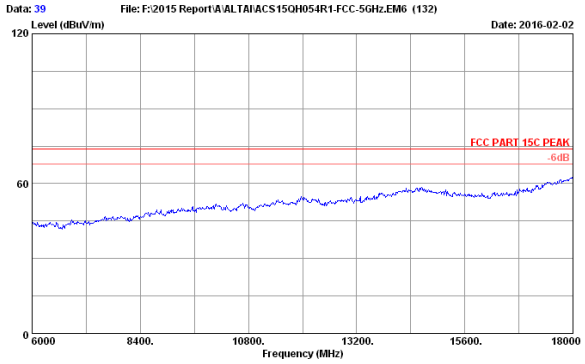

Site no. : 3m Chamber Data no. : 37
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5785MHz Tx
WA8011NAC-X



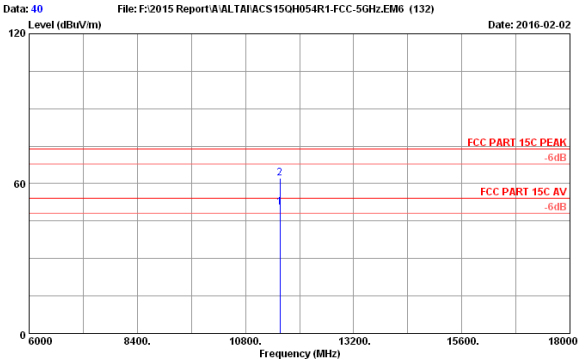

Site no. : 3m Chamber Data no. : 38
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5785MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 11570.000 | 39.14 | 14.60 | 35.31 | 31.56 | 49.99 | 54.00 | 4.01 | Average |
| 2 | 11570.000 | 39.14 | 14.60 | 35.31 | 44.03 | 62.46 | 74.00 | 11.54 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



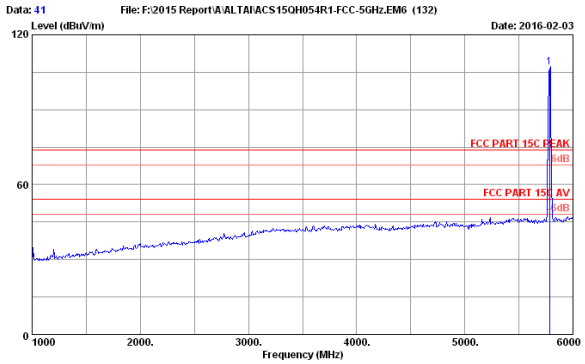

Site no. : 3m Chamber Data no. : 39
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5785MHz Tx
WA8011NAC-X




Site no. : 3m Chamber Data no. : 40
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5785MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 11570.000 | 39.14 | 14.60 | 35.31 | 32.04 | 50.47 | 54.00 | 3.53 | Average |
| 2 | 11570.000 | 39.14 | 14.60 | 35.31 | 43.58 | 62.01 | 74.00 | 11.99 | Peak |

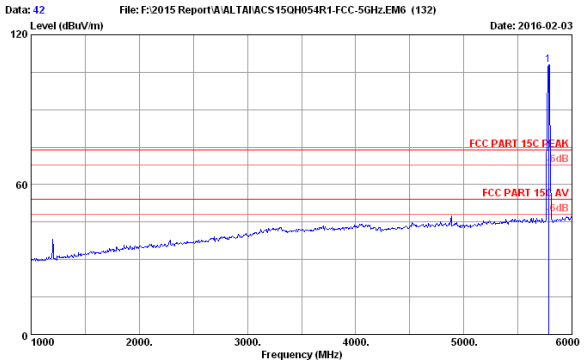
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 41
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5785MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5785.000 | 34.57 | 9.91 | 35.10 | 97.56 | 106.94 | 74.00 | -32.94 | Peak |

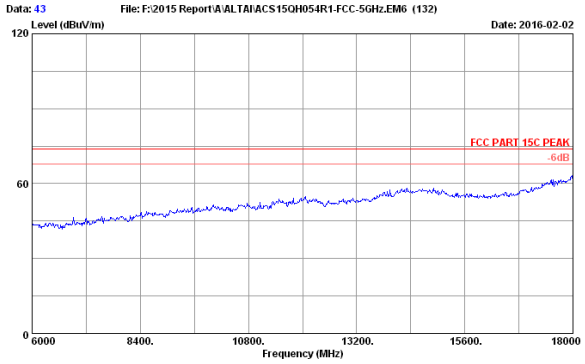
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



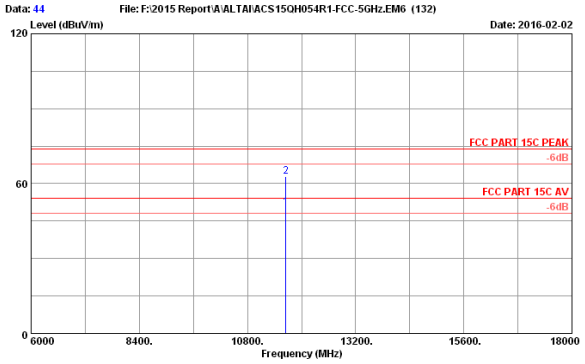

Site no. : 3m Chamber Data no. : 42
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5785MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5785.000 | 34.57 | 9.91 | 35.10 | 98.59 | 107.97 | 74.00 | -33.97 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



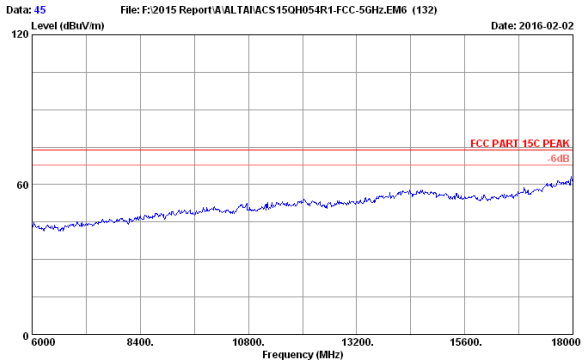

Site no. : 3m Chamber Data no. : 43
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5825MHz Tx
WA8011NAC-X



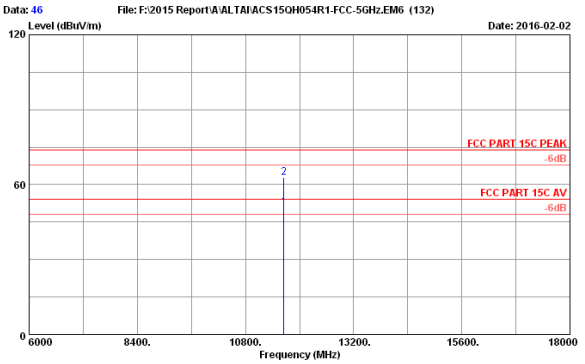

Site no. : 3m Chamber Data no. : 44
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5825MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 11650.000 | 39.19 | 14.66 | 35.29 | 31.86 | 50.42 | 54.00 | 3.58 | Average |
| 2 | 11650.000 | 39.19 | 14.66 | 35.29 | 44.23 | 62.79 | 74.00 | 11.21 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



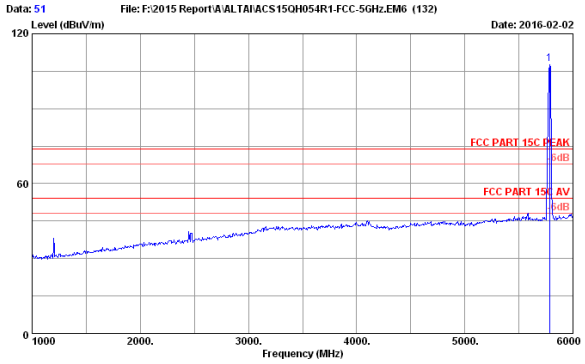

Site no. : 3m Chamber Data no. : 45
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5825MHz Tx
WA8011NAC-X




Site no. : 3m Chamber Data no. : 46
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5825MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 11650.000 | 39.19 | 14.66 | 35.29 | 32.41 | 50.97 | 54.00 | 3.03 | Average |
| 2 | 11650.000 | 39.19 | 14.66 | 35.29 | 44.28 | 62.84 | 74.00 | 11.16 | Peak |

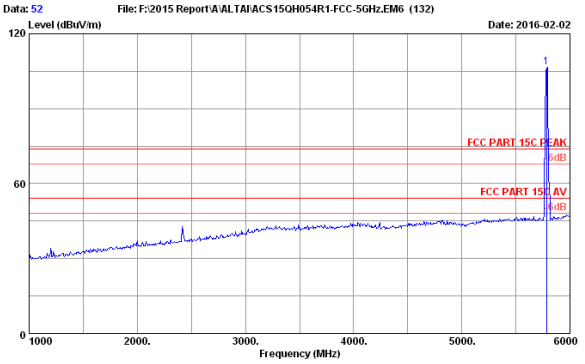
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 51
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5825MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5785.000 | 34.57 | 9.91 | 35.10 | 98.69 | 108.07 | 74.00 | -34.07 | Peak |

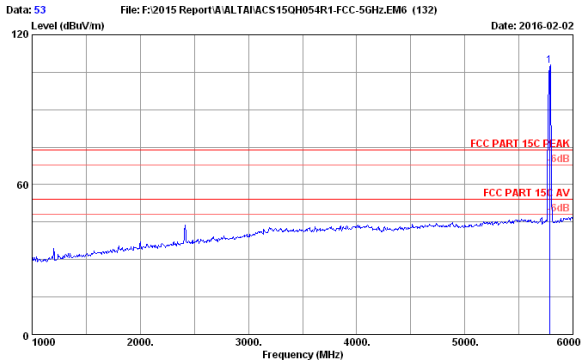
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 52
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5825MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5785.000 | 34.57 | 9.91 | 35.10 | 97.26 | 106.64 | 74.00 | -32.64 | Peak |

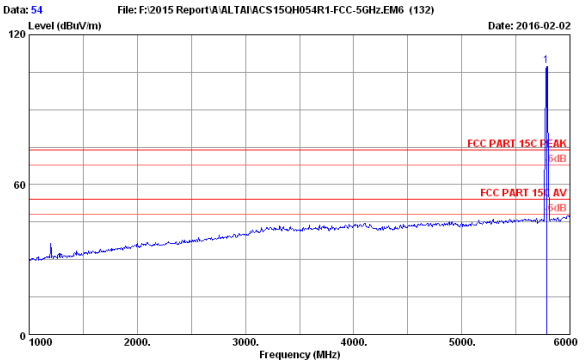
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 53
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5785MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Emission Reading (dBuV) | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5785.000 | 34.57 | 9.91 | 35.10 | 98.31 | 107.69 | 74.00 | -33.69 | Peak |

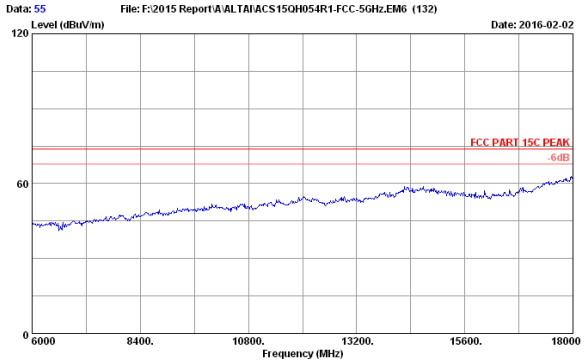
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



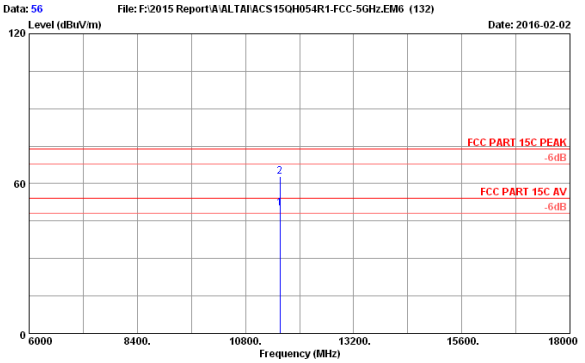

Site no. : 3m Chamber Data no. : 54
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5785MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Emission Reading (dBuV) | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5785.000 | 34.57 | 9.91 | 35.10 | 98.29 | 107.67 | 74.00 | -33.67 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



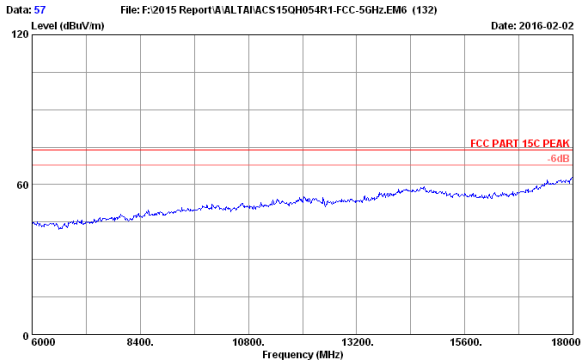

Site no. : 3m Chamber Data no. : 55
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5785MHz Tx
WA8011NAC-X



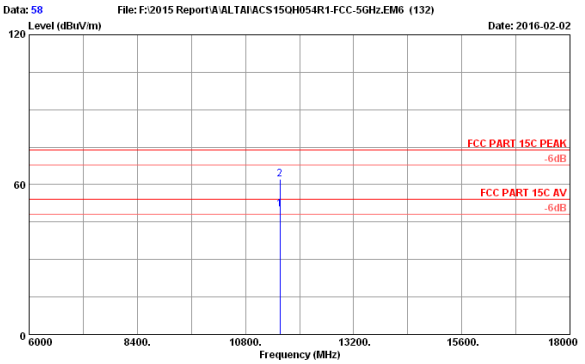

Site no. : 3m Chamber Data no. : 56
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5785MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Emission Reading (dBuV) | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 11570.000 | 39.14 | 14.60 | 35.31 | 31.85 | 50.28 | 54.00 | 3.72 | Average |
| 2 | 11570.000 | 39.14 | 14.60 | 35.31 | 44.26 | 62.69 | 74.00 | 11.31 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



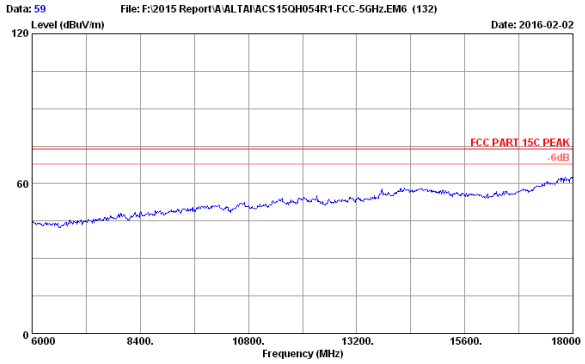

Site no. : 3m Chamber Data no. : 57
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5785MHz Tx
WA8011NAC-X



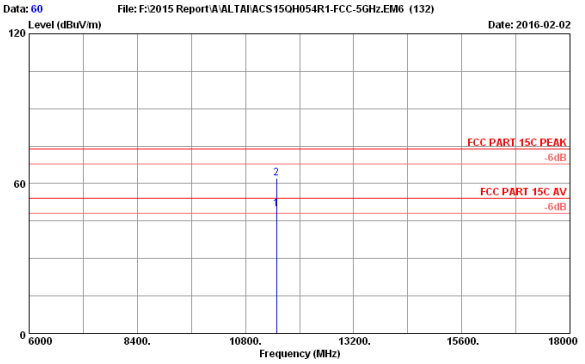

Site no. : 3m Chamber Data no. : 58
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5785MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 11570.000 | 39.14 | 14.60 | 35.31 | 31.86 | 50.29 | 54.00 | 3.71 | Average |
| 2 | 11570.000 | 39.14 | 14.60 | 35.31 | 43.89 | 62.32 | 74.00 | 11.68 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



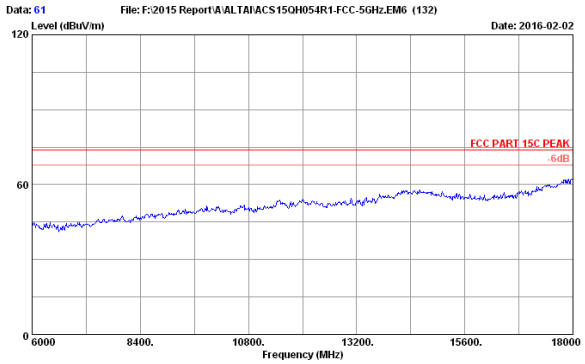

Site no. : 3m Chamber Data no. : 59
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5745MHz Tx
WA8011NAC-X



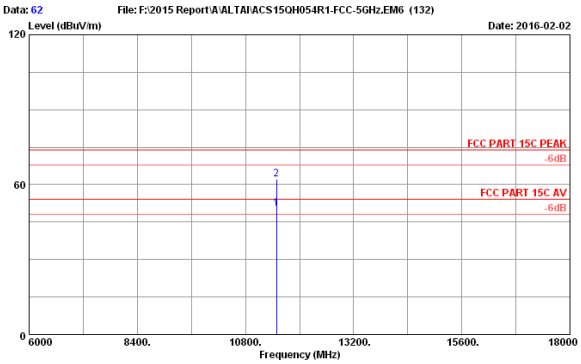

Site no. : 3m Chamber Data no. : 60
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5745MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 11490.000 | 39.09 | 14.54 | 35.33 | 31.46 | 49.76 | 54.00 | 4.24 | Average |
| 2 | 11490.000 | 39.09 | 14.54 | 35.33 | 43.86 | 62.16 | 74.00 | 11.84 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



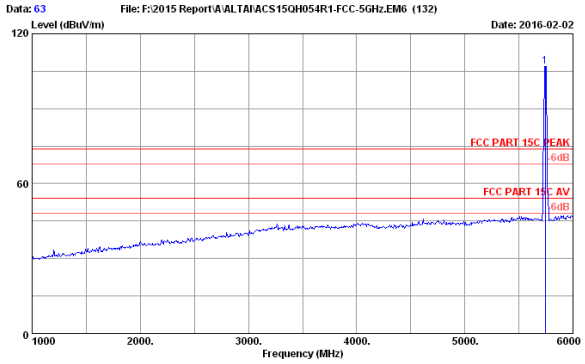

Site no. : 3m Chamber Data no. : 61
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5745MHz Tx
WA8011NAC-X




Site no. : 3m Chamber Data no. : 62
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5745MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 11490.000 | 39.09 | 14.54 | 35.33 | 32.16 | 50.46 | 54.00 | 3.54 | Average |
| 2 | 11490.000 | 39.09 | 14.54 | 35.33 | 44.04 | 62.34 | 74.00 | 11.66 | Peak |

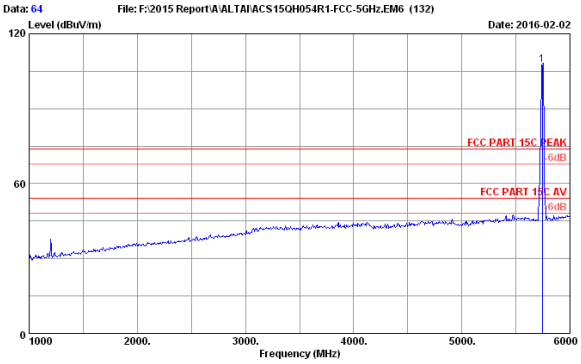
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 63
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5745MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5745.000 | 34.55 | 9.90 | 35.11 | 97.58 | 106.92 | 74.00 | -32.92 | Peak |

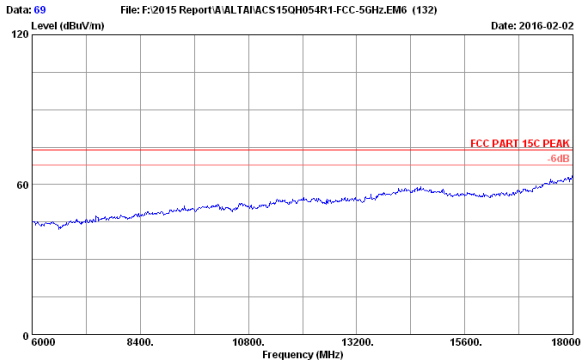
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



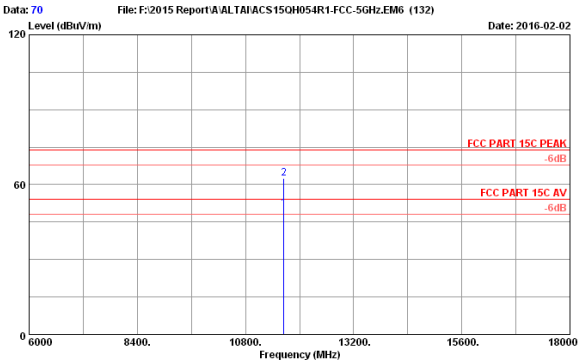

Site no. : 3m Chamber Data no. : 64
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5745MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5745.000 | 34.55 | 9.90 | 35.11 | 98.25 | 107.59 | 74.00 | -33.59 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



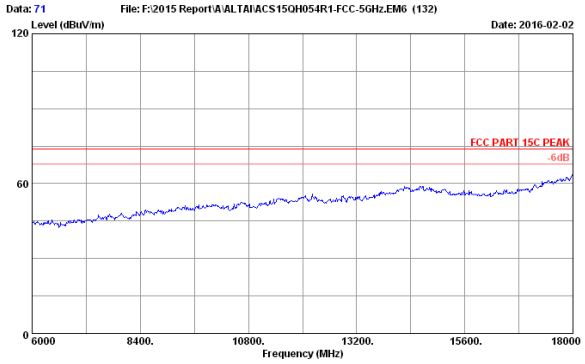

Site no. : 3m Chamber Data no. : 69
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5825MHz Tx
WA8011NAC-X



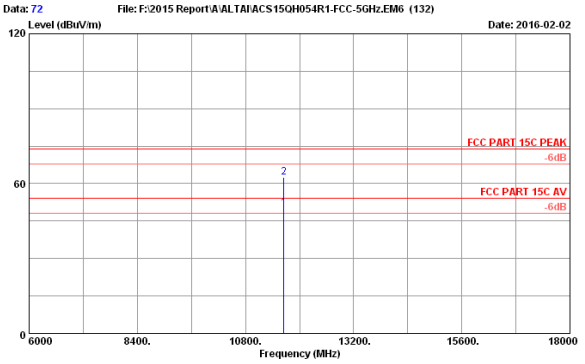

Site no. : 3m Chamber Data no. : 70
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5825MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 11650.000 | 39.19 | 14.66 | 35.29 | 31.89 | 50.45 | 54.00 | 3.55 | Average |
| 2 | 11650.000 | 39.19 | 14.66 | 35.29 | 43.78 | 62.34 | 74.00 | 11.66 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



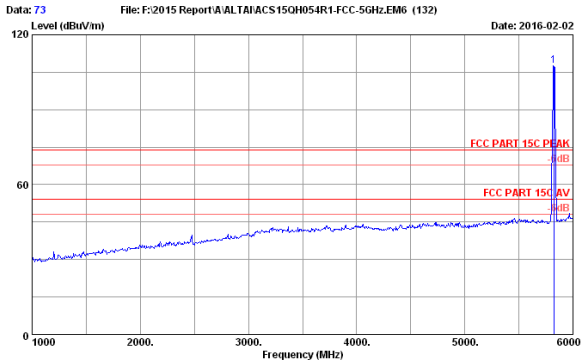

Site no. : 3m Chamber Data no. : 71
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5825MHz Tx
WA8011NAC-X




Site no. : 3m Chamber Data no. : 72
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5825MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 11650.000 | 39.19 | 14.66 | 35.29 | 31.42 | 49.98 | 54.00 | 4.02 | Average |
| 2 | 11650.000 | 39.19 | 14.66 | 35.29 | 43.85 | 62.41 | 74.00 | 11.59 | Peak |

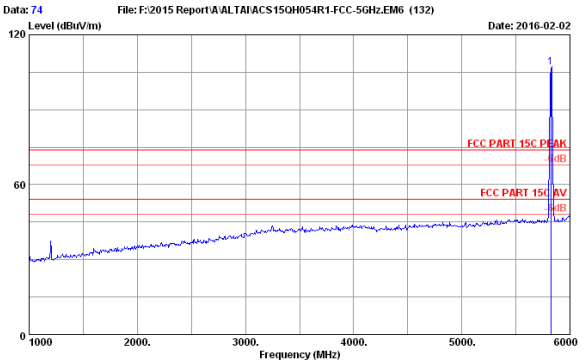
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 73
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5825MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5825.000 | 34.60 | 9.93 | 35.08 | 98.23 | 107.68 | 74.00 | -33.68 | Peak |

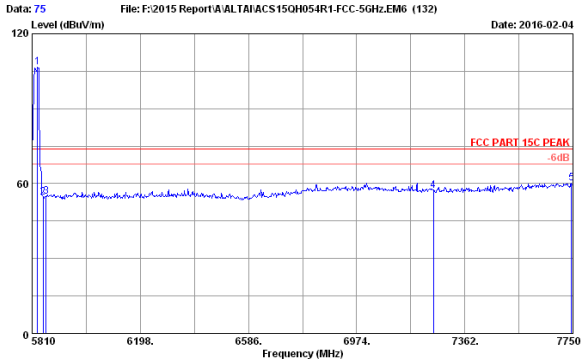
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 74
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5825MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5825.000 | 34.60 | 9.93 | 35.08 | 97.59 | 107.04 | 74.00 | -33.04 | Peak |

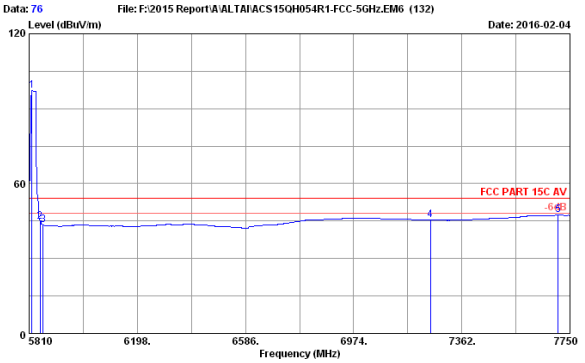
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 75
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5825MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5829.400 | 34.60 | 9.94 | 35.08 | 97.03 | 106.49 | 74.00 | -32.49 | Peak |
| 2 | 5850.000 | 34.61 | 9.95 | 35.07 | 45.01 | 54.50 | 74.00 | 19.50 | Peak |
| 3 | 5860.000 | 34.62 | 9.95 | 35.07 | 45.32 | 54.82 | 74.00 | 19.18 | Peak |
| 4 | 7249.480 | 36.10 | 10.74 | 35.50 | 45.67 | 57.01 | 74.00 | 16.99 | Peak |
| 5 | 7744.180 | 36.85 | 11.22 | 35.70 | 47.92 | 60.29 | 74.00 | 13.71 | Peak |

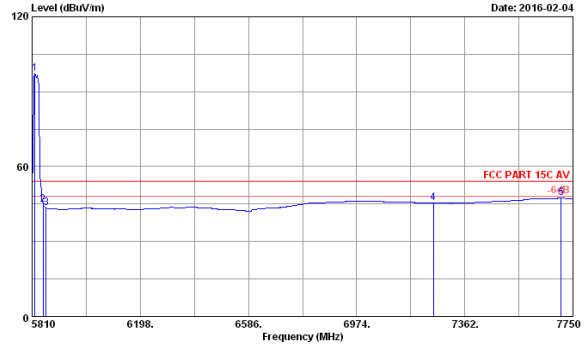
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 76
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5825MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5819.700 | 34.59 | 9.93 | 35.08 | 87.96 | 97.40 | 54.00 | -43.40 | Average |
| 2 | 5850.000 | 34.61 | 9.95 | 35.07 | 35.32 | 44.81 | 54.00 | 9.19 | Average |
| 3 | 5860.000 | 34.62 | 9.95 | 35.07 | 34.01 | 43.51 | 54.00 | 10.49 | Average |
| 4 | 7250.000 | 36.10 | 10.74 | 35.50 | 34.17 | 45.51 | 54.00 | 8.49 | Average |
| 5 | 7707.320 | 36.82 | 11.18 | 35.68 | 35.02 | 47.34 | 54.00 | 6.66 | Average |

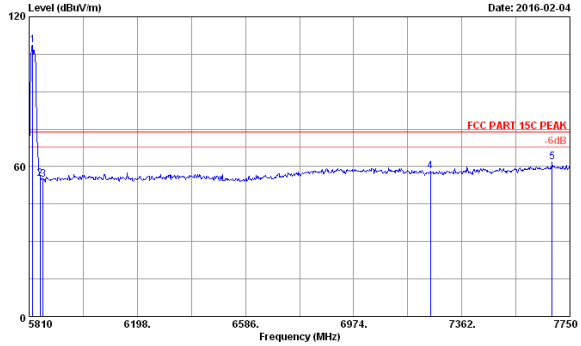
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 77
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5825MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Emission Reading (dBuV) | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5819.700 | 34.59 | 9.93 | 35.08 | 87.85 | 97.29 | 54.00 | -43.29 | Average |
| 2 | 5850.000 | 34.61 | 9.95 | 35.07 | 35.16 | 44.65 | 54.00 | 9.35 | Average |
| 3 | 5860.000 | 34.62 | 9.95 | 35.07 | 33.91 | 43.41 | 54.00 | 10.59 | Average |
| 4 | 7250.000 | 36.10 | 10.74 | 35.50 | 34.16 | 45.50 | 54.00 | 8.50 | Average |
| 5 | 7707.320 | 36.82 | 11.18 | 35.68 | 35.01 | 47.33 | 54.00 | 6.67 | Average |

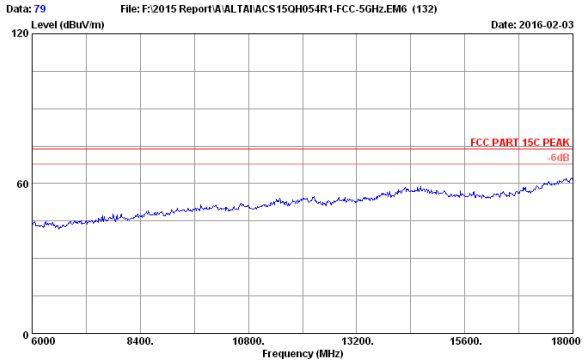
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



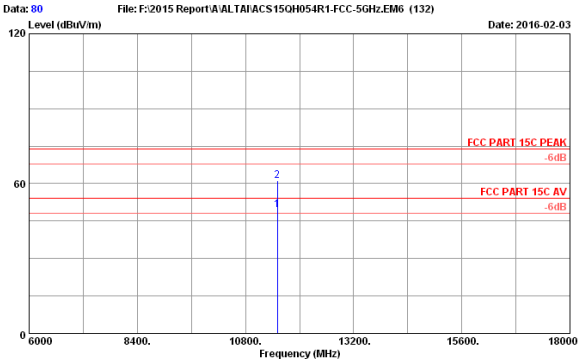

Site no. : 3m Chamber Data no. : 78
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5825MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Emission Reading (dBuV) | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5823.580 | 34.59 | 9.93 | 35.08 | 99.14 | 108.58 | 74.00 | -34.58 | Peak |
| 2 | 5850.000 | 34.61 | 9.95 | 35.07 | 45.81 | 55.30 | 74.00 | 18.70 | Peak |
| 3 | 5860.000 | 34.62 | 9.95 | 35.07 | 45.47 | 54.97 | 74.00 | 19.03 | Peak |
| 4 | 7250.000 | 36.10 | 10.74 | 35.50 | 46.96 | 58.30 | 74.00 | 15.70 | Peak |
| 5 | 7685.980 | 36.81 | 11.16 | 35.67 | 49.51 | 61.81 | 74.00 | 12.19 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



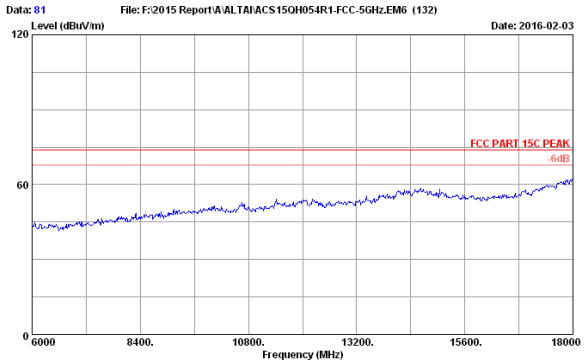

Site no. : 3m Chamber Data no. : 79
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5755MHz Tx
WA8011NAC-X



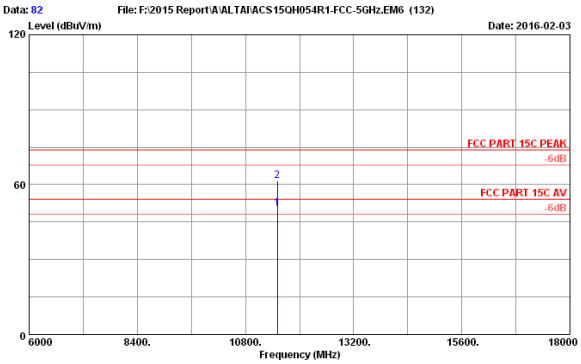

Site no. : 3m Chamber Data no. : 80
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5755MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Emission Reading (dBuV) | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 11510.000 | 39.11 | 14.56 | 35.33 | 31.26 | 49.60 | 54.00 | 4.40 | Average |
| 2 | 11510.000 | 39.11 | 14.56 | 35.33 | 42.89 | 61.23 | 74.00 | 12.77 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



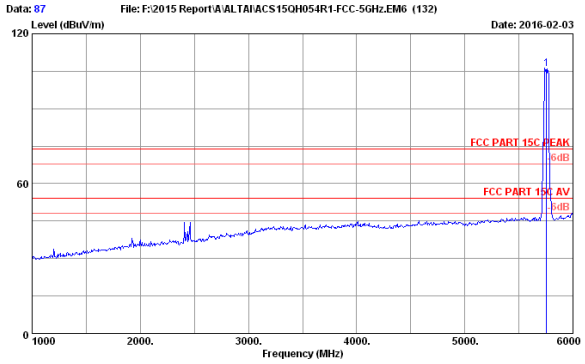

Site no. : 3m Chamber Data no. : 81
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5755MHz Tx
WA8011NAC-X




Site no. : 3m Chamber Data no. : 82
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5755MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 11510.000 | 39.11 | 14.56 | 35.33 | 32.11 | 50.45 | 54.00 | 3.55 | Average |
| 2 | 11510.000 | 39.11 | 14.56 | 35.33 | 43.25 | 61.59 | 74.00 | 12.41 | Peak |

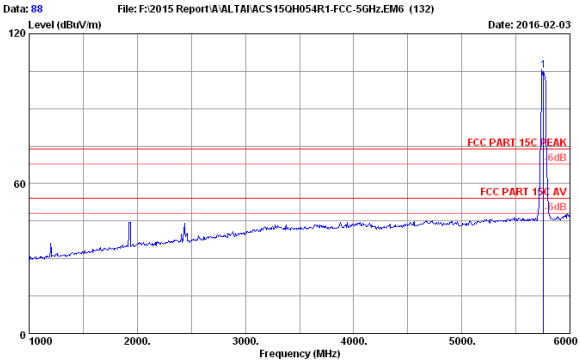
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 87
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5755MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5755.000 | 34.55 | 9.91 | 35.11 | 96.59 | 105.94 | 74.00 | -31.94 | Peak |

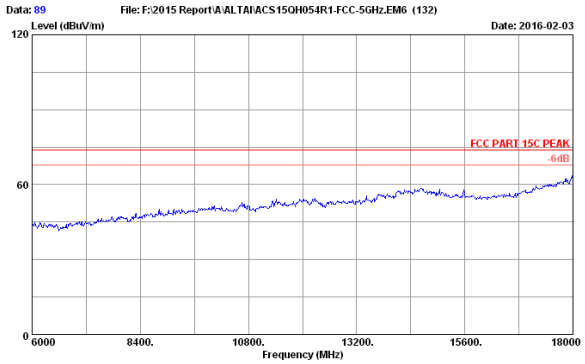
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



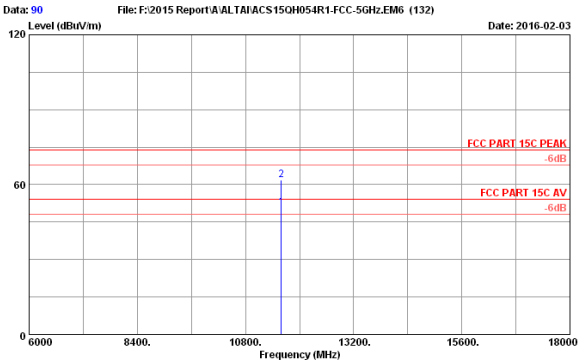

Site no. : 3m Chamber Data no. : 88
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5755MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5755.000 | 34.55 | 9.91 | 35.11 | 95.86 | 105.21 | 74.00 | -31.21 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



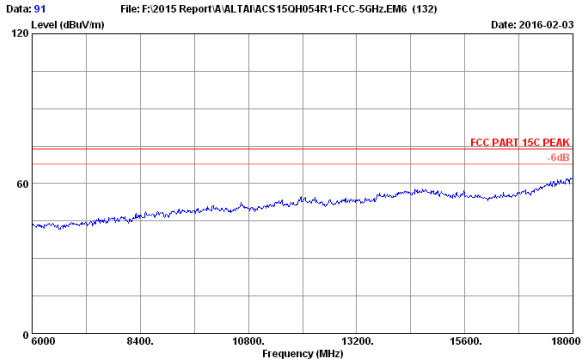

Site no. : 3m Chamber Data no. : 89
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5795MHz Tx
WA8011NAC-X



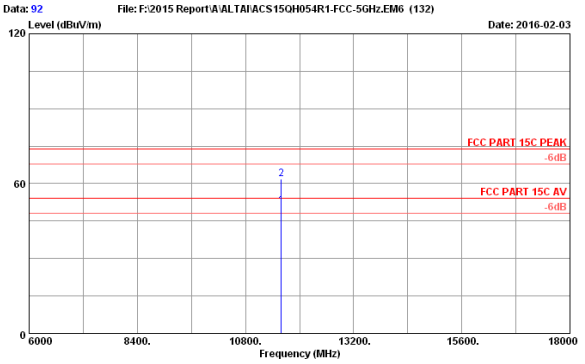

Site no. : 3m Chamber Data no. : 90
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5795MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 11590.000 | 39.15 | 14.61 | 35.30 | 32.48 | 50.94 | 54.00 | 3.06 | Average |
| 2 | 11590.000 | 39.15 | 14.61 | 35.30 | 43.54 | 62.00 | 74.00 | 12.00 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



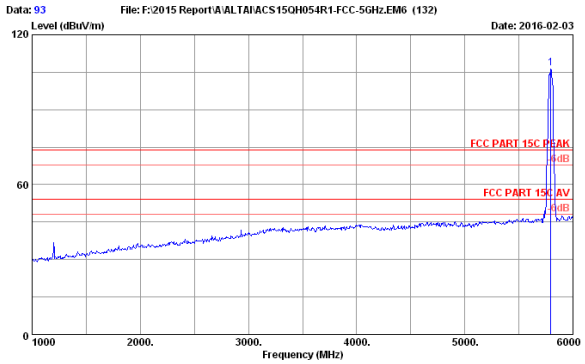

Site no. : 3m Chamber Data no. : 91
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5795MHz Tx
WA8011NAC-X




Site no. : 3m Chamber Data no. : 92
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5795MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 11590.000 | 39.15 | 14.61 | 35.30 | 32.52 | 50.98 | 54.00 | 3.02 | Average |
| 2 | 11590.000 | 39.15 | 14.61 | 35.30 | 43.28 | 61.74 | 74.00 | 12.26 | Peak |

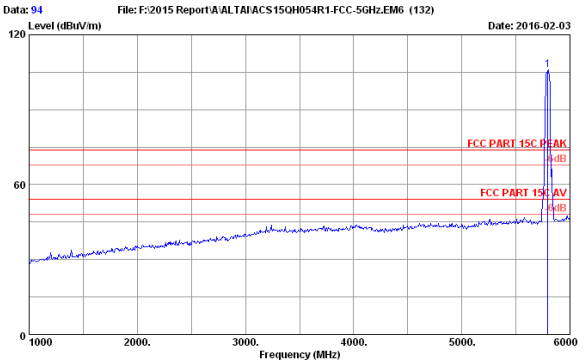
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 93
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5795MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Emission Reading (dBuV) | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5795.000 | 34.58 | 9.92 | 35.09 | 97.26 | 106.67 | 74.00 | -32.67 | Peak |

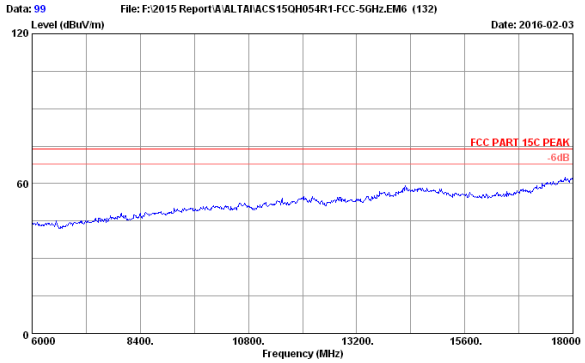
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



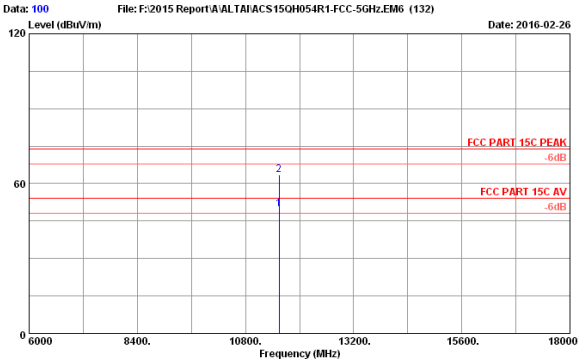

Site no. : 3m Chamber Data no. : 94
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5795MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Emission Reading (dBuV) | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5795.000 | 34.58 | 9.92 | 35.09 | 96.56 | 105.97 | 74.00 | -31.97 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



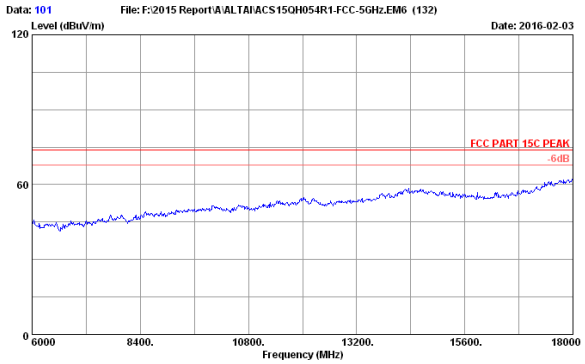

Site no. : 3m Chamber Data no. : 99
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT80 5775MHz Tx
WA8011NAC-X



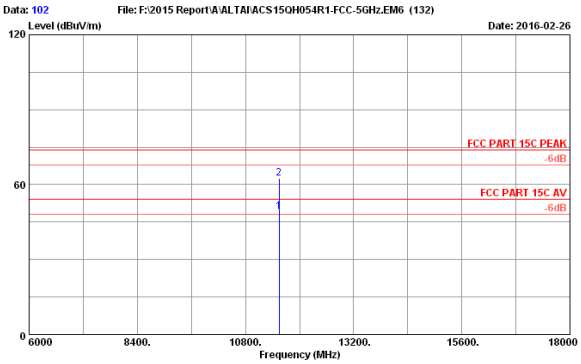

Site no. : 3m Chamber Data no. : 100
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT80 5775MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Emission Reading (dBuV) | Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 11550.000 | 39.13 | 14.58 | 35.31 | 31.42 | 49.82 | 54.00 | 4.18 | Average |
| 2 | 11550.000 | 39.13 | 14.58 | 35.31 | 45.16 | 63.56 | 74.00 | 10.44 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



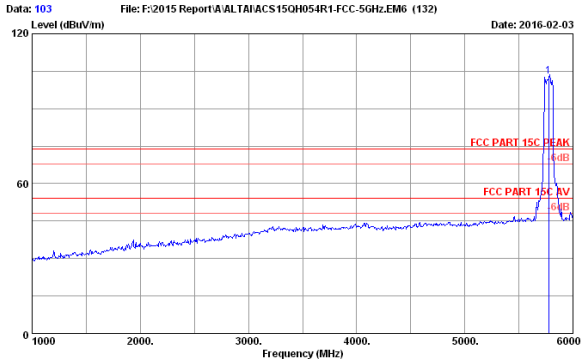

Site no. : 3m Chamber Data no. : 101
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT80 5775MHz Tx
WA8011NAC-X




Site no. : 3m Chamber Data no. : 102
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT80 5775MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 11550.000 | 39.13 | 14.58 | 35.31 | 30.85 | 49.25 | 54.00 | 4.75 | Average |
| 2 | 11550.000 | 39.13 | 14.58 | 35.31 | 44.13 | 62.53 | 74.00 | 11.47 | Peak |

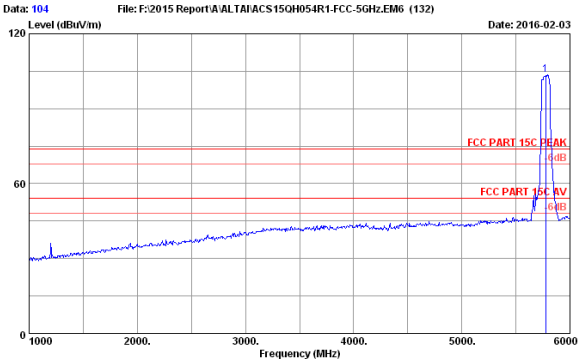
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.




Site no. : 3m Chamber Data no. : 103
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT80 5775MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5775.000 | 34.57 | 9.91 | 35.10 | 93.69 | 103.07 | 74.00 | -29.07 | Peak |

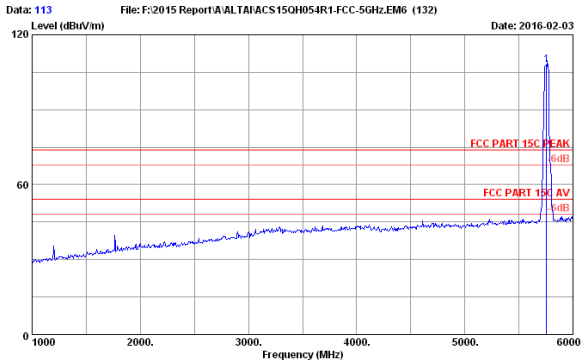
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.




Site no. : 3m Chamber Data no. : 104
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT80 5775MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5775.000 | 34.57 | 9.91 | 35.10 | 94.26 | 103.64 | 74.00 | -29.64 | Peak |

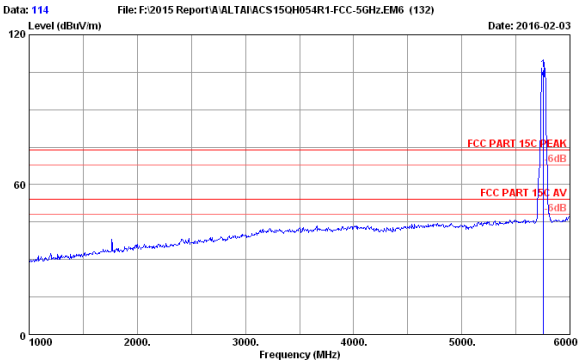
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.




Site no. : 3m Chamber Data no. : 113
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5755MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5755.000 | 34.55 | 9.91 | 35.11 | 98.62 | 107.97 | 74.00 | -33.97 | Peak |

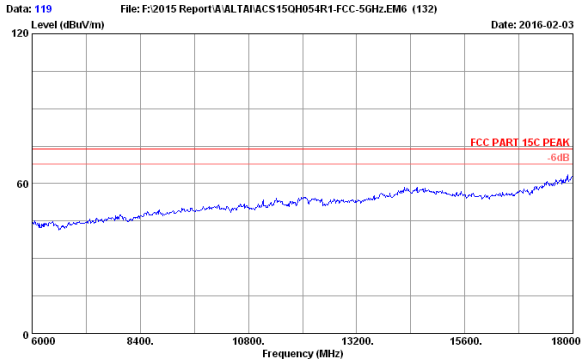
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



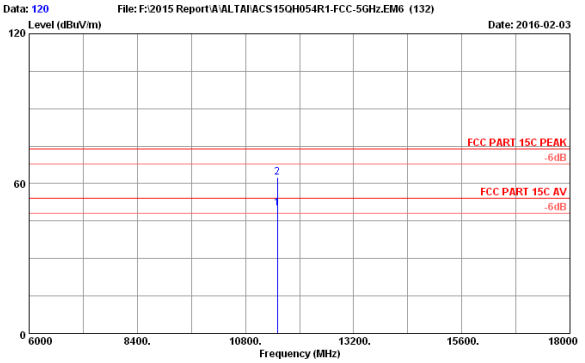

Site no. : 3m Chamber Data no. : 114
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5755MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5755.000 | 34.55 | 9.91 | 35.11 | 96.59 | 105.94 | 74.00 | -31.94 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



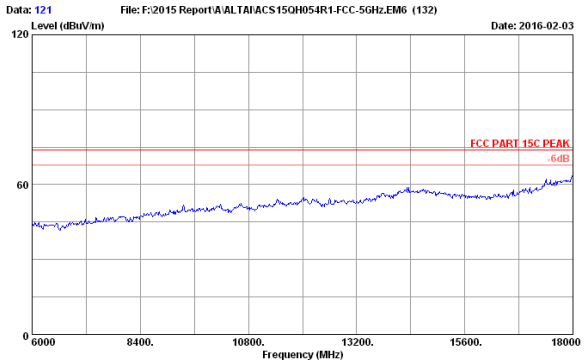

Site no. : 3m Chamber Data no. : 119
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5755MHz Tx
WA8011NAC-X



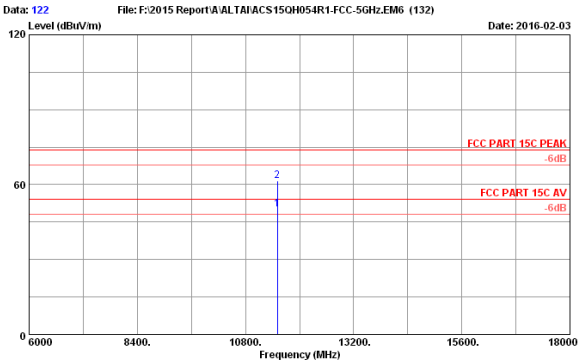

Site no. : 3m Chamber Data no. : 120
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5755MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 11510.000 | 39.11 | 14.56 | 35.33 | 31.89 | 50.23 | 54.00 | 3.77 | Average |
| 2 | 11510.000 | 39.11 | 14.56 | 35.33 | 44.01 | 62.35 | 74.00 | 11.65 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



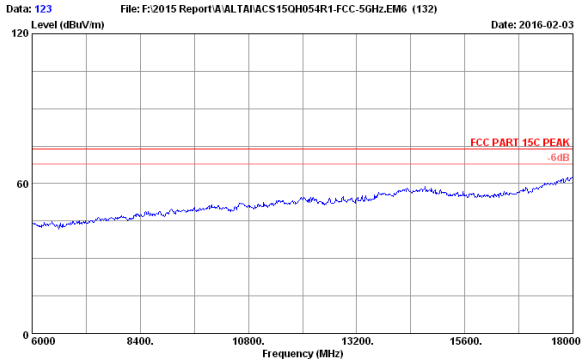

Site no. : 3m Chamber Data no. : 121
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5755MHz Tx
WA8011NAC-X



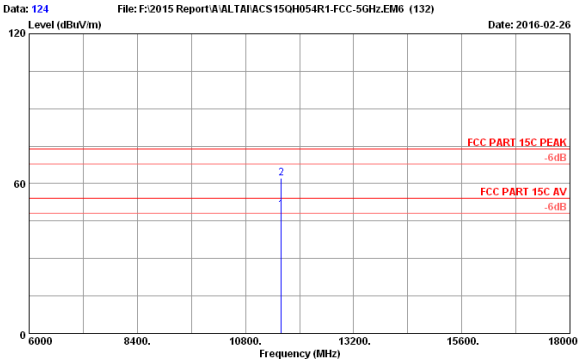

Site no. : 3m Chamber Data no. : 122
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5755MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 11510.000 | 39.11 | 14.56 | 35.33 | 31.85 | 50.19 | 54.00 | 3.81 | Average |
| 2 | 11510.000 | 39.11 | 14.56 | 35.33 | 43.29 | 61.63 | 74.00 | 12.37 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



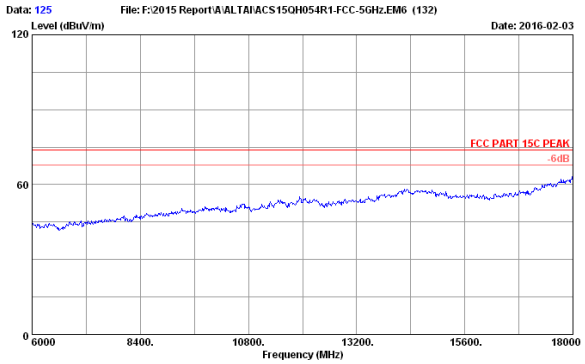

Site no. : 3m Chamber Data no. : 123
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5795MHz Tx
WA8011NAC-X



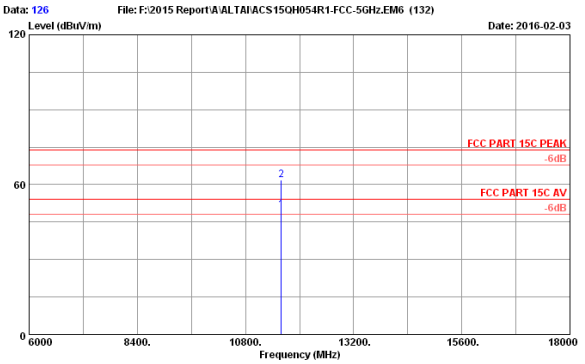

Site no. : 3m Chamber Data no. : 124
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5795MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 11590.000 | 39.15 | 14.61 | 35.30 | 30.85 | 49.31 | 54.00 | 4.69 | Average |
| 2 | 11590.000 | 39.15 | 14.61 | 35.30 | 43.74 | 62.20 | 74.00 | 11.80 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



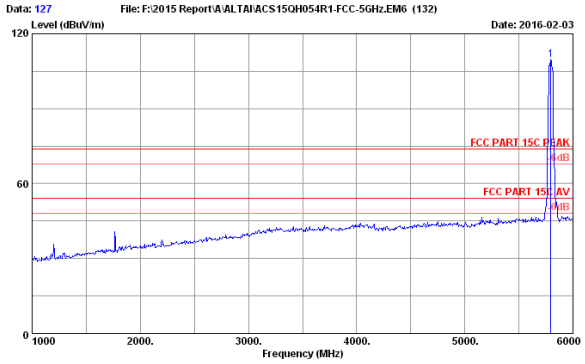

Site no. : 3m Chamber Data no. : 125
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5795MHz Tx
WA8011NAC-X




Site no. : 3m Chamber Data no. : 126
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5795MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 11590.000 | 39.15 | 14.61 | 35.30 | 31.28 | 49.74 | 54.00 | 4.26 | Average |
| 2 | 11590.000 | 39.15 | 14.61 | 35.30 | 43.26 | 61.72 | 74.00 | 12.28 | Peak |

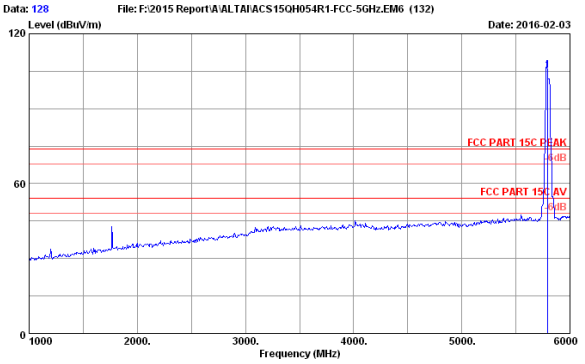
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 127
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5795MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5795.000 | 34.58 | 9.92 | 35.09 | 100.23 | 109.64 | 74.00 | -35.64 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 128
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5795MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5795.000 | 34.58 | 9.92 | 35.09 | 95.86 | 105.27 | 74.00 | -31.27 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.

# 5. BAND EDGE COMPLIANCE TEST

## 5.1.Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|---|---|---|---|---|---|---|
| 1. | Spectrum | Agilent | E4446A | US44300459 | Apr.28,15 | 1 Year |
| 2. | Amp | HP | 8449B | 3008A02495 | Apr.28,15 | 1 Year |
| 3. | Horn Antenna | ETS | 3115 | 9510-4877 | Oct.15,15 | 1 Year |
| 4. | HF Cable | Hubersuhner | Sucoflex104 | 274094/4 | Apr.28,15 | 1 Year |

## 5.2.Limit

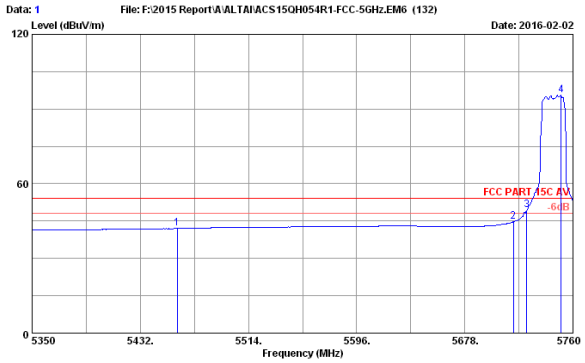
For transmitters operating in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p.
For devices with both operating frequencies and channel bandwidths contained within the band 5250-5350 MHz,
All emissions outside the band 5250-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p.
For transmitters operating in the band 5470-5725MHz,Emissions outside the band 5470-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p.
For the band 5725-5850 MHz, emissions at frequencies from the band edges to 10 MHz above or below the band edges shall not exceed -17 dBm/MHz e.i.r.p.
For emissions at frequencies more than 10 MHz above or below the band edges, the emissions power shall not exceed -27 dBm/MHz.

## 5.3.Test Produce

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
   (a) PEAK: RBW=1MHz; VBW=3MHz; Sweep=AUTO
   (b) AVERAGE: RBW=1MHz; VBW=10Hz; Sweep=AUTO
5. Per KDB789033 clause H 2)d).if the test distance is 3m,the EIRP(dBm)=E(dBuv/m)-95.2
   Get the final compare with limit.

## 5.4.Test Results

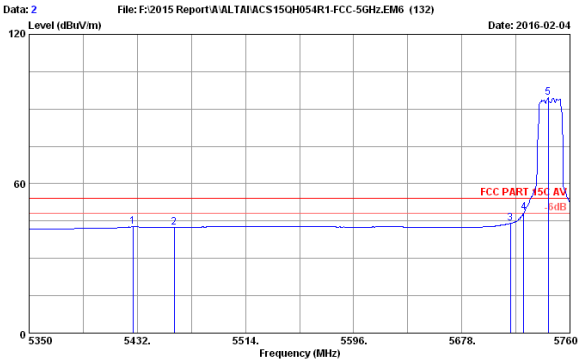
Pass (The testing data was attached in the next pages.)




Site no. : 3m Chamber Data no. : 1
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5745MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5460.000 | 34.33 | 9.76 | 35.25 | 33.16 | 42.00 | 54.00 | 12.00 | Average |
| 2 | 5715.000 | 34.53 | 9.88 | 35.12 | 35.45 | 44.74 | 54.00 | 9.26 | Average |
| 3 | 5725.000 | 34.53 | 9.89 | 35.12 | 40.13 | 49.43 | 54.00 | 4.57 | Average |
| 4 | 5750.980 | 34.55 | 9.90 | 35.11 | 86.18 | 95.52 | 54.00 | -41.52 | Average |

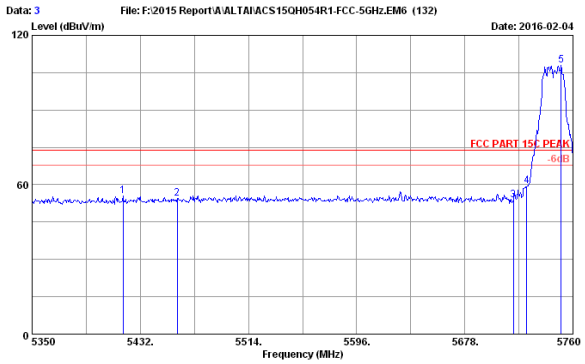
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 2
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5745MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5428.720 | 34.27 | 9.74 | 35.26 | 33.96 | 42.71 | 54.00 | 11.29 | Average |
| 2 | 5459.880 | 34.33 | 9.76 | 35.25 | 33.60 | 42.44 | 54.00 | 11.56 | Average |
| 3 | 5715.000 | 34.53 | 9.88 | 35.12 | 34.84 | 44.13 | 54.00 | 9.87 | Average |
| 4 | 5725.000 | 34.53 | 9.89 | 35.12 | 39.09 | 48.39 | 54.00 | 5.61 | Average |
| 5 | 5743.600 | 34.55 | 9.90 | 35.11 | 85.24 | 94.58 | 54.00 | -40.58 | Average |

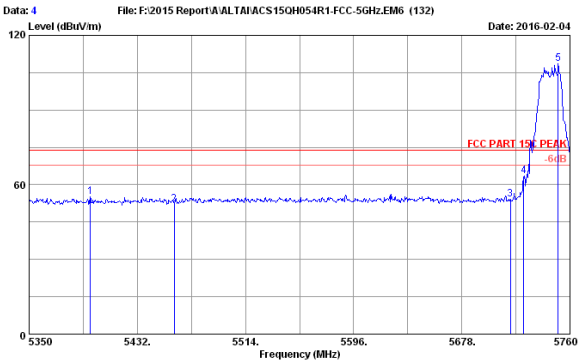
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 3
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5745MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5418.880 | 34.25 | 9.74 | 35.26 | 46.69 | 55.42 | 74.00 | 18.58 | Peak |
| 2 | 5460.000 | 34.33 | 9.76 | 35.25 | 45.67 | 54.51 | 74.00 | 19.49 | Peak |
| 3 | 5715.000 | 34.53 | 9.88 | 35.12 | 44.68 | 53.97 | 74.00 | 20.03 | Peak |
| 4 | 5725.000 | 34.53 | 9.89 | 35.12 | 50.06 | 59.36 | 74.00 | 14.64 | Peak |
| 5 | 5750.980 | 34.55 | 9.90 | 35.11 | 98.70 | 108.04 | 74.00 | -34.04 | Peak |

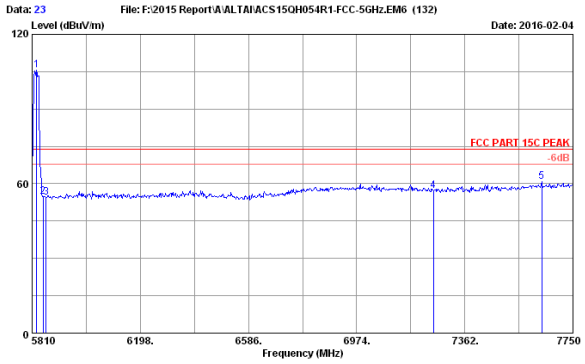
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 4
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5745MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5396.330 | 34.21 | 9.74 | 35.27 | 46.62 | 55.30 | 74.00 | 18.70 | Peak |
| 2 | 5460.000 | 34.33 | 9.76 | 35.25 | 43.29 | 52.13 | 74.00 | 21.87 | Peak |
| 3 | 5715.000 | 34.53 | 9.88 | 35.12 | 44.82 | 54.11 | 74.00 | 19.89 | Peak |
| 4 | 5725.000 | 34.53 | 9.89 | 35.12 | 54.05 | 63.35 | 74.00 | 10.65 | Peak |
| 5 | 5750.980 | 34.55 | 9.90 | 35.11 | 99.17 | 108.51 | 74.00 | -34.51 | Peak |

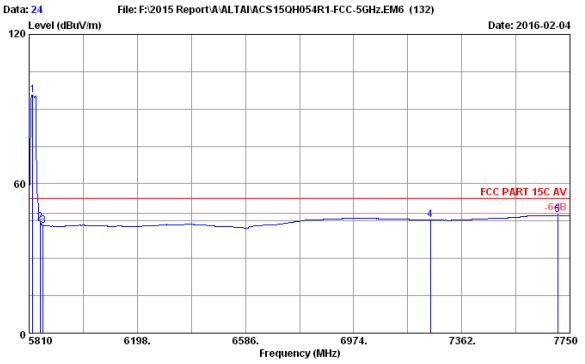
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 23
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5825MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5825.520 | 34.60 | 9.94 | 35.08 | 96.02 | 105.48 | 74.00 | -31.48 | Peak |
| 2 | 5850.000 | 34.61 | 9.95 | 35.07 | 45.23 | 54.72 | 74.00 | 19.28 | Peak |
| 3 | 5860.000 | 34.62 | 9.95 | 35.07 | 45.09 | 54.59 | 74.00 | 19.41 | Peak |
| 4 | 7250.000 | 36.10 | 10.74 | 35.50 | 45.88 | 57.22 | 74.00 | 16.78 | Peak |
| 5 | 7637.480 | 36.78 | 11.11 | 35.65 | 48.56 | 60.80 | 74.00 | 13.20 | Peak |

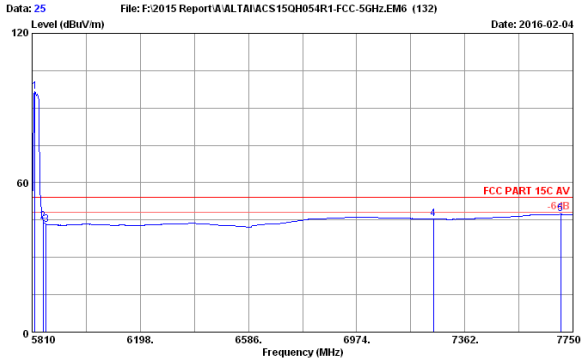
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 24
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5825MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5823.580 | 34.59 | 9.93 | 35.08 | 86.05 | 95.49 | 54.00 | -41.49 | Average |
| 2 | 5850.000 | 34.61 | 9.95 | 35.07 | 34.92 | 44.41 | 54.00 | 9.59 | Average |
| 3 | 5860.000 | 34.62 | 9.95 | 35.07 | 33.75 | 43.25 | 54.00 | 10.75 | Average |
| 4 | 7250.000 | 36.10 | 10.74 | 35.50 | 34.14 | 45.48 | 54.00 | 8.52 | Average |
| 5 | 7705.380 | 36.82 | 11.18 | 35.68 | 35.01 | 47.33 | 54.00 | 6.67 | Average |

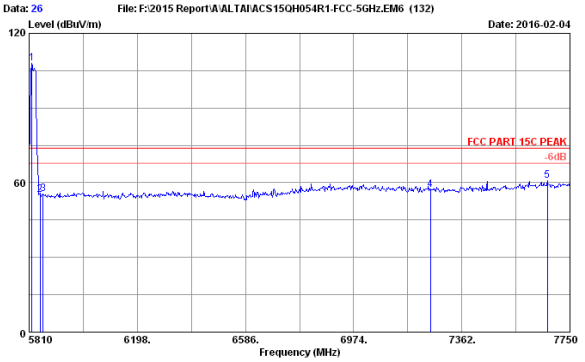
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 25
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5825MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5819.700 | 34.59 | 9.93 | 35.08 | 87.13 | 96.57 | 54.00 | -42.57 | Average |
| 2 | 5850.000 | 34.61 | 9.95 | 35.07 | 34.93 | 44.42 | 54.00 | 9.58 | Average |
| 3 | 5860.000 | 34.62 | 9.95 | 35.07 | 33.77 | 43.27 | 54.00 | 10.73 | Average |
| 4 | 7250.000 | 36.10 | 10.74 | 35.50 | 34.12 | 45.46 | 54.00 | 8.54 | Average |
| 5 | 7705.380 | 36.82 | 11.18 | 35.68 | 35.01 | 47.33 | 54.00 | 6.67 | Average |

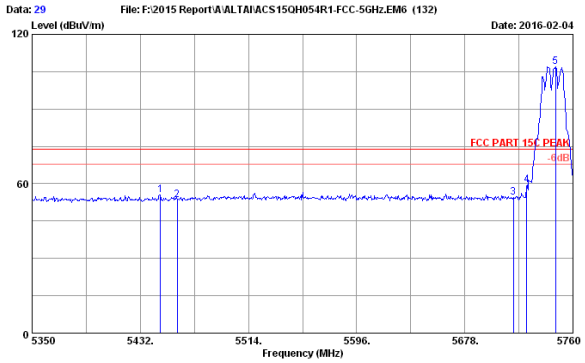
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 26
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5825MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5819.700 | 34.59 | 9.93 | 35.08 | 98.55 | 107.99 | 74.00 | -33.99 | Peak |
| 2 | 5850.000 | 34.61 | 9.95 | 35.07 | 45.60 | 55.09 | 74.00 | 18.91 | Peak |
| 3 | 5860.000 | 34.62 | 9.95 | 35.07 | 45.86 | 55.36 | 74.00 | 18.64 | Peak |
| 4 | 7250.000 | 36.10 | 10.74 | 35.50 | 45.84 | 57.18 | 74.00 | 16.82 | Peak |
| 5 | 7668.520 | 36.80 | 11.15 | 35.67 | 48.68 | 60.96 | 74.00 | 13.04 | Peak |

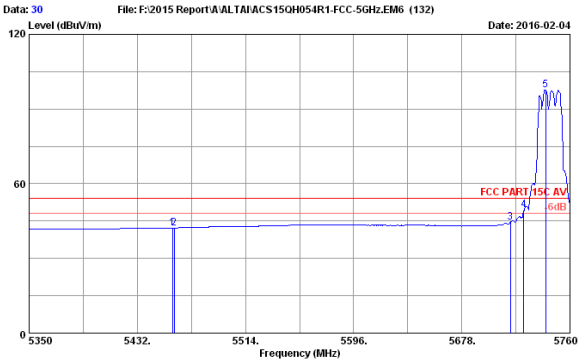
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 29
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5745MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5447.170 | 34.30 | 9.75 | 35.25 | 46.72 | 55.52 | 74.00 | 18.48 | Peak |
| 2 | 5460.000 | 34.33 | 9.76 | 35.25 | 44.57 | 53.41 | 74.00 | 20.59 | Peak |
| 3 | 5715.000 | 34.53 | 9.88 | 35.12 | 45.31 | 54.60 | 74.00 | 19.40 | Peak |
| 4 | 5725.000 | 34.53 | 9.89 | 35.12 | 50.28 | 59.58 | 74.00 | 14.42 | Peak |
| 5 | 5746.880 | 34.55 | 9.90 | 35.11 | 97.75 | 107.09 | 74.00 | -33.09 | Peak |

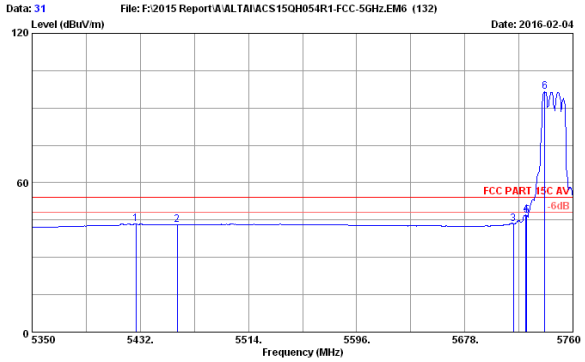
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 30
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5745MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5458.650 | 34.33 | 9.76 | 35.25 | 33.42 | 42.26 | 54.00 | 11.74 | Average |
| 2 | 5460.000 | 34.33 | 9.76 | 35.25 | 33.44 | 42.28 | 54.00 | 11.72 | Average |
| 3 | 5715.000 | 34.53 | 9.88 | 35.12 | 35.32 | 44.61 | 54.00 | 9.39 | Average |
| 4 | 5725.000 | 34.53 | 9.89 | 35.12 | 40.04 | 49.34 | 54.00 | 4.66 | Average |
| 5 | 5741.550 | 34.54 | 9.90 | 35.11 | 88.32 | 97.65 | 54.00 | -43.65 | Average |

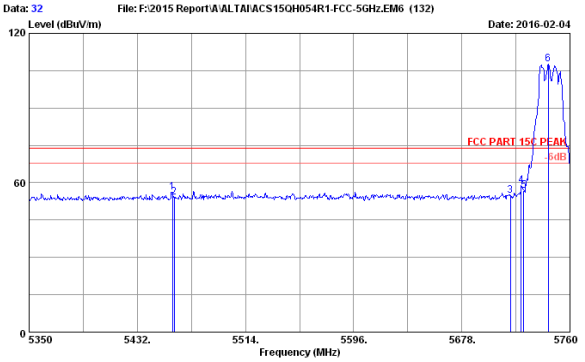
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 31
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5745MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5428.720 | 34.27 | 9.74 | 35.26 | 34.77 | 43.52 | 54.00 | 10.48 | Average |
| 2 | 5460.000 | 34.33 | 9.76 | 35.25 | 34.24 | 43.08 | 54.00 | 10.92 | Average |
| 3 | 5715.000 | 34.53 | 9.88 | 35.12 | 34.24 | 43.53 | 54.00 | 10.47 | Average |
| 4 | 5724.330 | 34.53 | 9.89 | 35.12 | 37.78 | 47.08 | 54.00 | 6.92 | Average |
| 5 | 5725.000 | 34.53 | 9.89 | 35.12 | 37.49 | 46.79 | 54.00 | 7.21 | Average |
| 6 | 5738.680 | 34.54 | 9.90 | 35.11 | 87.29 | 96.62 | 54.00 | -42.62 | Average |

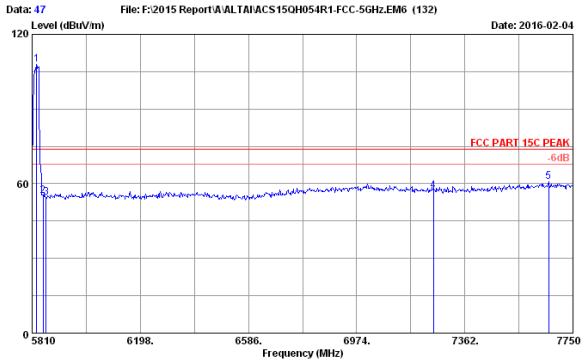
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 32
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5745MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5458.650 | 34.33 | 9.76 | 35.25 | 47.35 | 56.19 | 74.00 | 17.81 | Peak |
| 2 | 5460.000 | 34.33 | 9.76 | 35.25 | 45.27 | 54.11 | 74.00 | 19.89 | Peak |
| 3 | 5715.000 | 34.53 | 9.88 | 35.12 | 45.36 | 54.65 | 74.00 | 19.35 | Peak |
| 4 | 5723.100 | 34.53 | 9.89 | 35.12 | 49.68 | 58.98 | 74.00 | 15.02 | Peak |
| 5 | 5725.000 | 34.53 | 9.89 | 35.12 | 47.44 | 56.74 | 74.00 | 17.26 | Peak |
| 6 | 5743.600 | 34.55 | 9.90 | 35.11 | 98.18 | 107.52 | 74.00 | -33.52 | Peak |

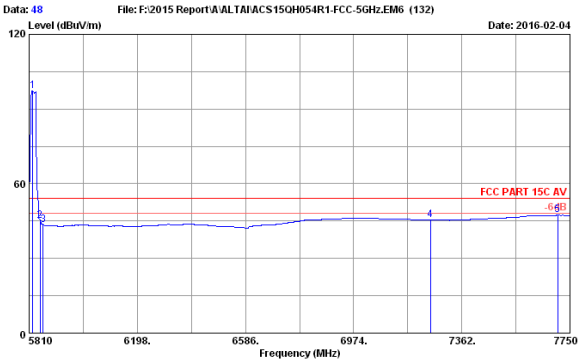
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 47
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5825MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5825.520 | 34.60 | 9.94 | 35.08 | 98.39 | 107.85 | 74.00 | -33.85 | Peak |
| 2 | 5850.000 | 34.61 | 9.95 | 35.07 | 45.67 | 55.16 | 74.00 | 18.84 | Peak |
| 3 | 5860.000 | 34.62 | 9.95 | 35.07 | 44.85 | 54.35 | 74.00 | 19.65 | Peak |
| 4 | 7250.000 | 36.10 | 10.74 | 35.50 | 45.82 | 57.16 | 74.00 | 16.84 | Peak |
| 5 | 7662.700 | 36.80 | 11.15 | 35.67 | 48.45 | 60.73 | 74.00 | 13.27 | Peak |

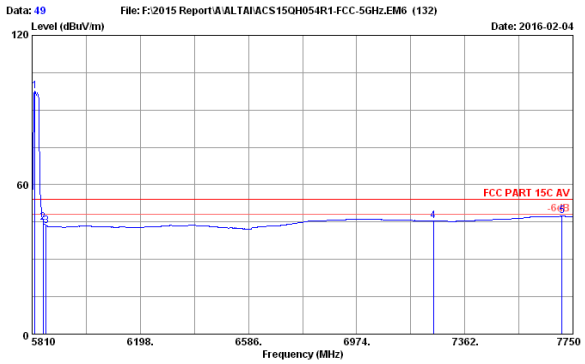
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 48
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5825MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5823.580 | 34.59 | 9.93 | 35.08 | 87.77 | 97.21 | 54.00 | -43.21 | Average |
| 2 | 5850.000 | 34.61 | 9.95 | 35.07 | 35.60 | 45.09 | 54.00 | 8.91 | Average |
| 3 | 5860.000 | 34.62 | 9.95 | 35.07 | 34.03 | 43.53 | 54.00 | 10.47 | Average |
| 4 | 7250.000 | 36.10 | 10.74 | 35.50 | 34.16 | 45.50 | 54.00 | 8.50 | Average |
| 5 | 7705.380 | 36.82 | 11.18 | 35.68 | 35.01 | 47.33 | 54.00 | 6.67 | Average |

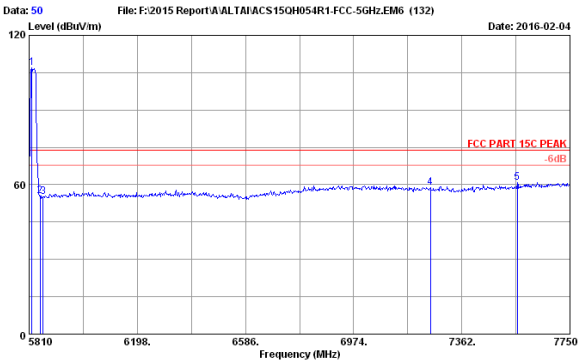
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 49
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5825MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5819.700 | 34.59 | 9.93 | 35.08 | 88.15 | 97.59 | 54.00 | -43.59 | Average |
| 2 | 5850.000 | 34.61 | 9.95 | 35.07 | 35.37 | 44.86 | 54.00 | 9.14 | Average |
| 3 | 5860.000 | 34.62 | 9.95 | 35.07 | 33.98 | 43.48 | 54.00 | 10.52 | Average |
| 4 | 7250.000 | 36.10 | 10.74 | 35.50 | 34.15 | 45.49 | 54.00 | 8.51 | Average |
| 5 | 7711.200 | 36.83 | 11.18 | 35.68 | 35.01 | 47.34 | 54.00 | 6.66 | Average |

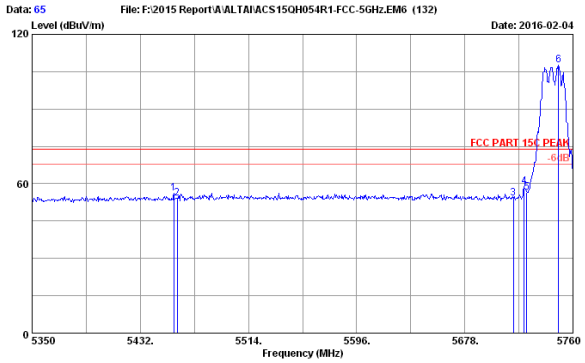
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 50
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5825MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5819.700 | 34.59 | 9.93 | 35.08 | 97.53 | 106.97 | 74.00 | -32.97 | Peak |
| 2 | 5850.000 | 34.61 | 9.95 | 35.07 | 45.85 | 55.34 | 74.00 | 18.66 | Peak |
| 3 | 5860.000 | 34.62 | 9.95 | 35.07 | 45.60 | 55.10 | 74.00 | 18.90 | Peak |
| 4 | 7250.000 | 36.10 | 10.74 | 35.50 | 47.66 | 59.00 | 74.00 | 15.00 | Peak |
| 5 | 7561.820 | 36.74 | 11.04 | 35.62 | 48.83 | 60.99 | 74.00 | 13.01 | Peak |

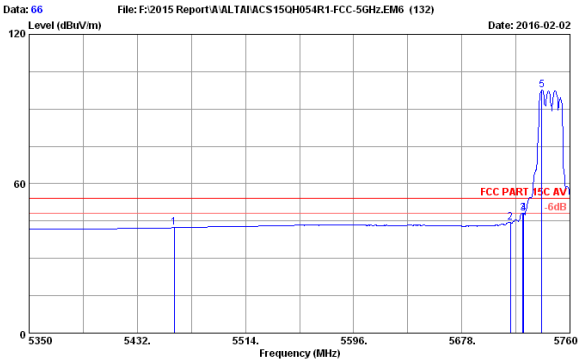
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 65
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5745MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5457.420 | 34.32 | 9.76 | 35.25 | 47.19 | 56.02 | 74.00 | 17.98 | Peak |
| 2 | 5460.000 | 34.33 | 9.76 | 35.25 | 45.37 | 54.21 | 74.00 | 19.79 | Peak |
| 3 | 5715.000 | 34.53 | 9.88 | 35.12 | 44.83 | 54.12 | 74.00 | 19.88 | Peak |
| 4 | 5723.100 | 34.53 | 9.89 | 35.12 | 49.40 | 58.70 | 74.00 | 15.30 | Peak |
| 5 | 5725.000 | 34.53 | 9.89 | 35.12 | 47.31 | 56.61 | 74.00 | 17.39 | Peak |
| 6 | 5748.930 | 34.55 | 9.90 | 35.11 | 98.29 | 107.63 | 74.00 | -33.63 | Peak |

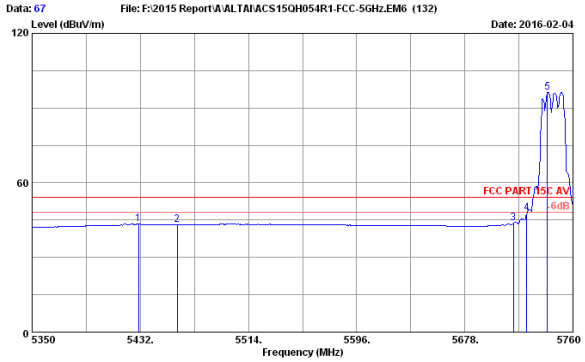
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 66
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5745MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5460.000 | 34.33 | 9.76 | 35.25 | 33.46 | 42.30 | 54.00 | 11.70 | Average |
| 2 | 5715.000 | 34.53 | 9.88 | 35.12 | 35.01 | 44.30 | 54.00 | 9.70 | Average |
| 3 | 5724.330 | 34.53 | 9.89 | 35.12 | 38.95 | 48.25 | 54.00 | 5.75 | Average |
| 4 | 5725.000 | 34.53 | 9.89 | 35.12 | 38.73 | 48.03 | 54.00 | 5.97 | Average |
| 5 | 5738.680 | 34.54 | 9.90 | 35.11 | 88.27 | 97.60 | 54.00 | -43.60 | Average |

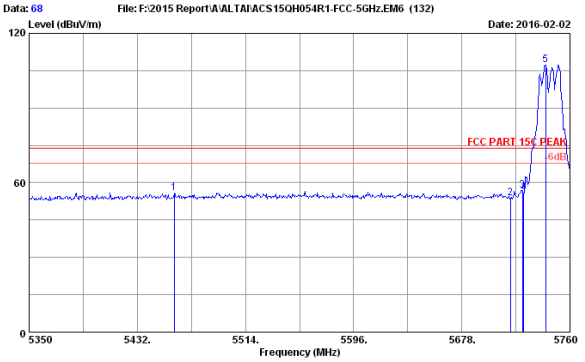
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 67
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5745MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5430.770 | 34.28 | 9.75 | 35.26 | 34.77 | 43.54 | 54.00 | 10.46 | Average |
| 2 | 5460.000 | 34.33 | 9.76 | 35.25 | 34.25 | 43.09 | 54.00 | 10.91 | Average |
| 3 | 5715.000 | 34.53 | 9.88 | 35.12 | 34.50 | 43.79 | 54.00 | 10.21 | Average |
| 4 | 5725.000 | 34.53 | 9.89 | 35.12 | 38.53 | 47.83 | 54.00 | 6.17 | Average |
| 5 | 5740.730 | 34.54 | 9.90 | 35.11 | 87.02 | 96.35 | 54.00 | -42.35 | Average |

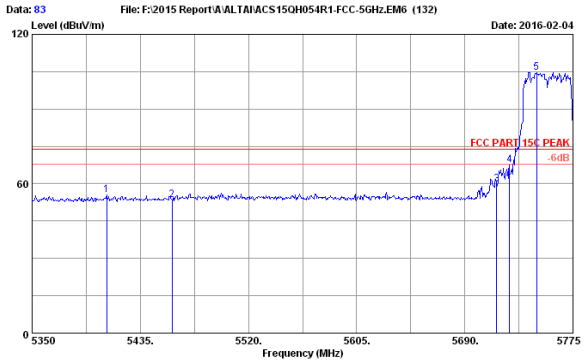
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 68
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT20 5745MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5460.000 | 34.33 | 9.76 | 35.25 | 46.97 | 55.81 | 74.00 | 18.19 | Peak |
| 2 | 5715.000 | 34.53 | 9.88 | 35.12 | 44.45 | 53.74 | 74.00 | 20.26 | Peak |
| 3 | 5723.920 | 34.53 | 9.89 | 35.12 | 47.54 | 56.84 | 74.00 | 17.16 | Peak |
| 4 | 5725.000 | 34.53 | 9.89 | 35.12 | 46.49 | 55.79 | 74.00 | 18.21 | Peak |
| 5 | 5741.550 | 34.54 | 9.90 | 35.11 | 98.02 | 107.35 | 74.00 | -33.35 | Peak |

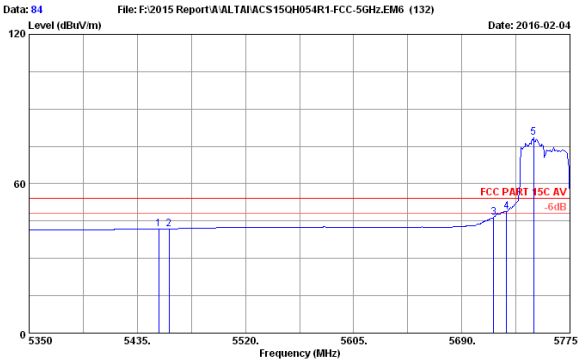
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 83
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5755MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5408.650 | 34.24 | 9.74 | 35.27 | 46.66 | 55.37 | 74.00 | 18.63 | Peak |
| 2 | 5460.000 | 34.33 | 9.76 | 35.25 | 44.72 | 53.56 | 74.00 | 20.44 | Peak |
| 3 | 5715.000 | 34.53 | 9.88 | 35.12 | 50.68 | 59.97 | 74.00 | 14.03 | Peak |
| 4 | 5725.000 | 34.53 | 9.89 | 35.12 | 58.09 | 67.39 | 74.00 | 6.61 | Peak |
| 5 | 5746.525 | 34.55 | 9.90 | 35.11 | 95.30 | 104.64 | 74.00 | -30.64 | Peak |

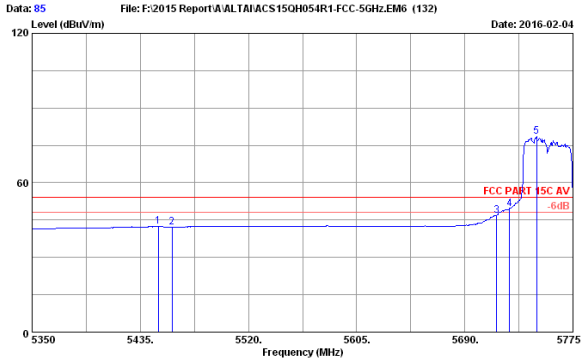
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 84
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5755MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5452.000 | 34.31 | 9.76 | 35.25 | 33.12 | 41.94 | 54.00 | 12.06 | Peak |
| 2 | 5460.000 | 34.33 | 9.76 | 35.25 | 33.04 | 41.88 | 54.00 | 12.12 | Peak |
| 3 | 5715.000 | 34.53 | 9.88 | 35.12 | 37.31 | 46.60 | 54.00 | 7.40 | Peak |
| 4 | 5725.000 | 34.53 | 9.89 | 35.12 | 39.41 | 48.71 | 54.00 | 5.29 | Peak |
| 5 | 5746.525 | 34.55 | 9.90 | 35.11 | 69.35 | 78.69 | 54.00 | -24.69 | Peak |

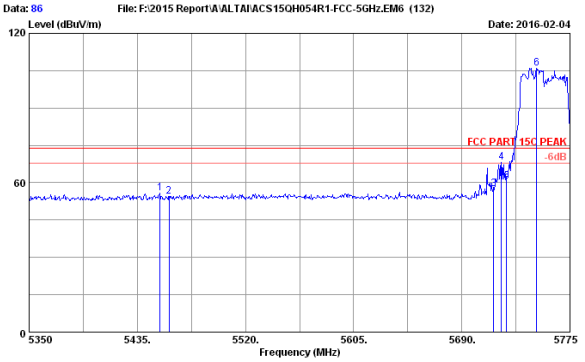
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 85
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5755MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5449.025 | 34.31 | 9.76 | 35.25 | 33.57 | 42.39 | 54.00 | 11.61 | Average |
| 2 | 5460.000 | 34.33 | 9.76 | 35.25 | 33.34 | 42.18 | 54.00 | 11.82 | Average |
| 3 | 5715.000 | 34.53 | 9.88 | 35.12 | 37.62 | 46.91 | 54.00 | 7.09 | Average |
| 4 | 5725.000 | 34.53 | 9.89 | 35.12 | 40.13 | 49.43 | 54.00 | 4.57 | Average |
| 5 | 5746.525 | 34.55 | 9.90 | 35.11 | 69.35 | 78.69 | 54.00 | -24.69 | Average |

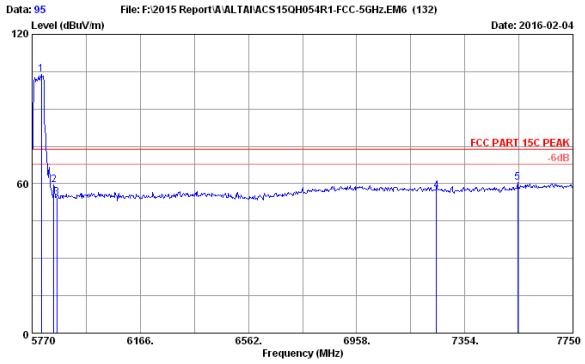
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 86
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5755MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5452.850 | 34.32 | 9.76 | 35.25 | 46.84 | 55.67 | 74.00 | 18.33 | Peak |
| 2 | 5460.000 | 34.33 | 9.76 | 35.25 | 45.56 | 54.40 | 74.00 | 19.60 | Peak |
| 3 | 5715.000 | 34.53 | 9.88 | 35.12 | 48.35 | 57.64 | 74.00 | 16.36 | Peak |
| 4 | 5721.025 | 34.53 | 9.89 | 35.12 | 59.02 | 68.32 | 74.00 | 5.68 | Peak |
| 5 | 5725.000 | 34.53 | 9.89 | 35.12 | 51.10 | 60.40 | 74.00 | 13.60 | Peak |
| 6 | 5748.650 | 34.55 | 9.90 | 35.11 | 96.74 | 106.08 | 74.00 | -32.08 | Peak |

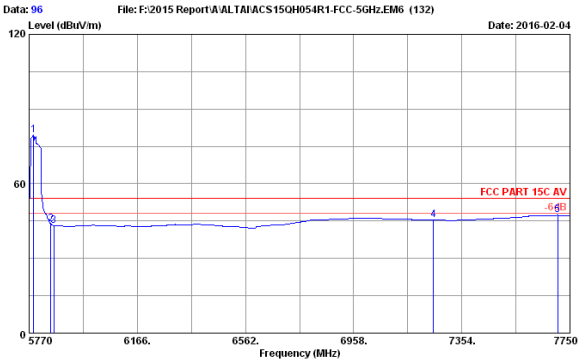
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 95
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5795MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5803.660 | 34.58 | 9.92 | 35.09 | 94.68 | 104.09 | 74.00 | -30.09 | Peak |
| 2 | 5850.000 | 34.61 | 9.95 | 35.07 | 50.00 | 59.49 | 74.00 | 14.51 | Peak |
| 3 | 5860.000 | 34.62 | 9.95 | 35.07 | 44.98 | 54.48 | 74.00 | 19.52 | Peak |
| 4 | 7250.000 | 36.10 | 10.74 | 35.50 | 45.89 | 57.23 | 74.00 | 16.77 | Peak |
| 5 | 7548.040 | 36.73 | 11.02 | 35.62 | 48.33 | 60.46 | 74.00 | 13.54 | Peak |

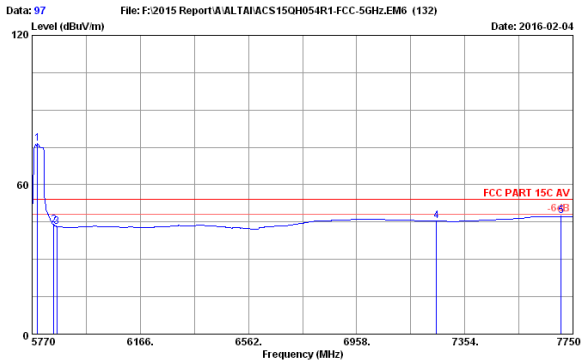
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 96
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5795MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5785.840 | 34.57 | 9.91 | 35.10 | 70.03 | 79.41 | 54.00 | -25.41 | Average |
| 2 | 5850.000 | 34.61 | 9.95 | 35.07 | 34.29 | 43.78 | 54.00 | 10.22 | Average |
| 3 | 5860.000 | 34.62 | 9.95 | 35.07 | 33.72 | 43.22 | 54.00 | 10.78 | Average |
| 4 | 7250.000 | 36.10 | 10.74 | 35.50 | 34.14 | 45.48 | 54.00 | 8.52 | Average |
| 5 | 7704.460 | 36.82 | 11.18 | 35.68 | 35.01 | 47.33 | 54.00 | 6.67 | Average |

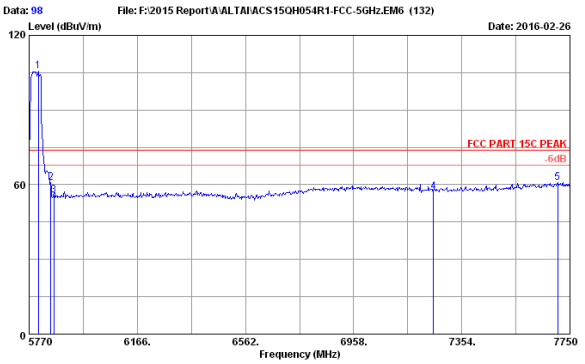
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 97
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5795MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5789.800 | 34.57 | 9.92 | 35.09 | 66.99 | 76.39 | 54.00 | -22.39 | Average |
| 2 | 5850.000 | 34.61 | 9.95 | 35.07 | 34.31 | 43.80 | 54.00 | 10.20 | Average |
| 3 | 5860.000 | 34.62 | 9.95 | 35.07 | 33.76 | 43.26 | 54.00 | 10.74 | Average |
| 4 | 7250.000 | 36.10 | 10.74 | 35.50 | 34.13 | 45.47 | 54.00 | 8.53 | Average |
| 5 | 7706.440 | 36.82 | 11.18 | 35.68 | 34.98 | 47.30 | 54.00 | 6.70 | Average |

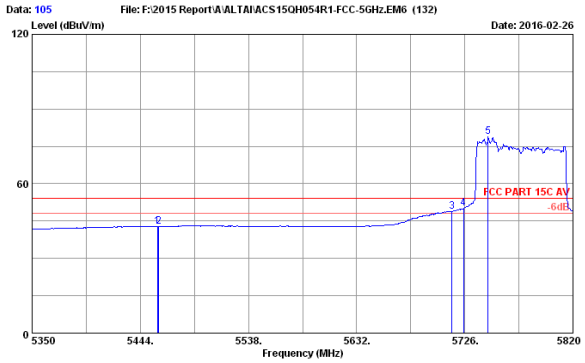
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 98
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT40 5795MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5803.660 | 34.58 | 9.92 | 35.09 | 96.20 | 105.61 | 74.00 | -31.61 | Peak |
| 2 | 5850.000 | 34.61 | 9.95 | 35.07 | 51.35 | 60.84 | 74.00 | 13.16 | Peak |
| 3 | 5860.000 | 34.62 | 9.95 | 35.07 | 46.17 | 55.67 | 74.00 | 18.33 | Peak |
| 4 | 7250.000 | 36.10 | 10.74 | 35.50 | 45.98 | 57.32 | 74.00 | 16.68 | Peak |
| 5 | 7704.460 | 36.82 | 11.18 | 35.68 | 48.54 | 60.86 | 74.00 | 13.14 | Peak |

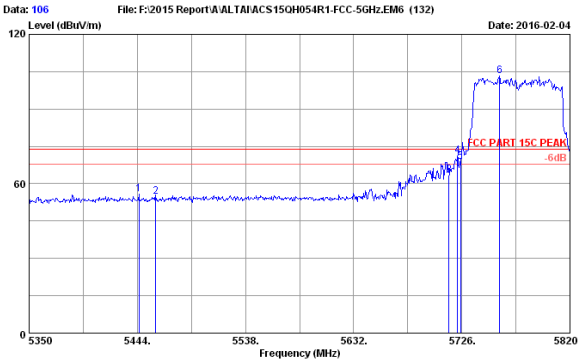
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 105
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT80 5775MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5459.040 | 34.33 | 9.76 | 35.25 | 34.05 | 42.89 | 54.00 | 11.11 | Average |
| 2 | 5460.000 | 34.33 | 9.76 | 35.25 | 34.00 | 42.84 | 54.00 | 11.16 | Average |
| 3 | 5715.000 | 34.53 | 9.88 | 35.12 | 39.35 | 48.64 | 54.00 | 5.36 | Average |
| 4 | 5725.000 | 34.53 | 9.89 | 35.12 | 40.95 | 50.25 | 54.00 | 3.75 | Average |
| 5 | 5746.210 | 34.55 | 9.90 | 35.11 | 69.41 | 78.75 | 54.00 | -24.75 | Average |

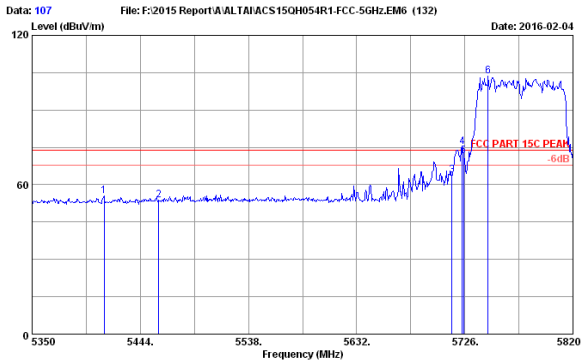
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 106
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT80 5775MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5445.410 | 34.30 | 9.75 | 35.25 | 46.86 | 55.66 | 74.00 | 18.34 | Peak |
| 2 | 5460.000 | 34.33 | 9.76 | 35.25 | 45.87 | 54.71 | 74.00 | 19.29 | Peak |
| 3 | 5715.000 | 34.53 | 9.88 | 35.12 | 54.36 | 63.65 | 74.00 | 10.35 | Peak |
| 4 | 5722.240 | 34.53 | 9.89 | 35.12 | 61.93 | 71.23 | 74.00 | 2.77 | Peak |
| 5 | 5725.000 | 34.53 | 9.89 | 35.12 | 59.41 | 68.71 | 74.00 | 5.29 | Peak |
| 6 | 5758.900 | 34.56 | 9.91 | 35.11 | 93.88 | 103.24 | 74.00 | -29.24 | Peak |

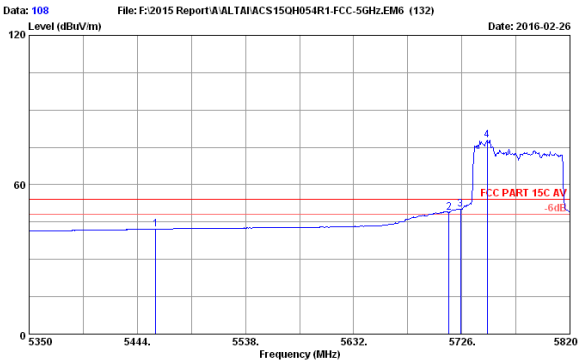
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 107
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT80 5775MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5412.510 | 34.24 | 9.74 | 35.26 | 46.67 | 55.39 | 74.00 | 18.61 | Peak |
| 2 | 5460.000 | 34.33 | 9.76 | 35.25 | 44.81 | 53.65 | 74.00 | 20.35 | Peak |
| 3 | 5715.000 | 34.53 | 9.88 | 35.12 | 54.40 | 63.69 | 74.00 | 10.31 | Peak |
| 4 | 5723.650 | 34.53 | 9.89 | 35.12 | 65.95 | 75.25 | 74.00 | -1.25 | Peak |
| 5 | 5725.000 | 34.53 | 9.89 | 35.12 | 62.30 | 71.60 | 74.00 | 2.40 | Peak |
| 6 | 5746.210 | 34.55 | 9.90 | 35.11 | 94.13 | 103.47 | 74.00 | -29.47 | Peak |

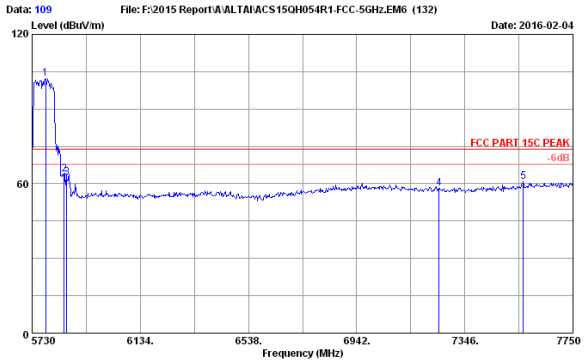
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 108
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT80 5775MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5460.000 | 34.33 | 9.76 | 35.25 | 33.31 | 42.15 | 54.00 | 11.85 | Average |
| 2 | 5715.000 | 34.53 | 9.88 | 35.12 | 39.67 | 48.96 | 54.00 | 5.04 | Average |
| 3 | 5725.000 | 34.53 | 9.89 | 35.12 | 40.95 | 50.25 | 54.00 | 3.75 | Average |
| 4 | 5748.090 | 34.55 | 9.90 | 35.11 | 68.55 | 77.89 | 54.00 | -23.89 | Average |

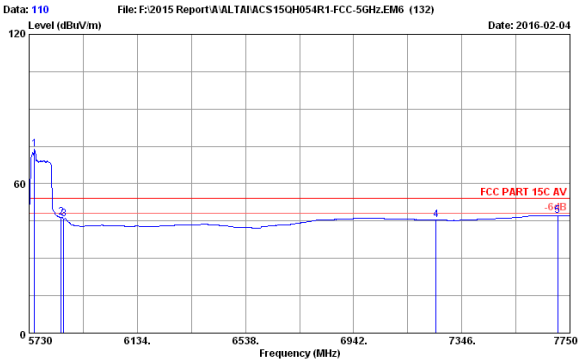
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 109
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT80 5775MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5780.500 | 34.57 | 9.91 | 35.10 | 92.75 | 102.13 | 74.00 | -28.13 | Peak |
| 2 | 5850.000 | 34.61 | 9.95 | 35.07 | 54.31 | 63.80 | 74.00 | 10.20 | Peak |
| 3 | 5860.000 | 34.62 | 9.95 | 35.07 | 52.85 | 62.35 | 74.00 | 11.65 | Peak |
| 4 | 7250.000 | 36.10 | 10.74 | 35.50 | 46.77 | 58.11 | 74.00 | 15.89 | Peak |
| 5 | 7564.160 | 36.74 | 11.04 | 35.63 | 48.55 | 60.70 | 74.00 | 13.30 | Peak |

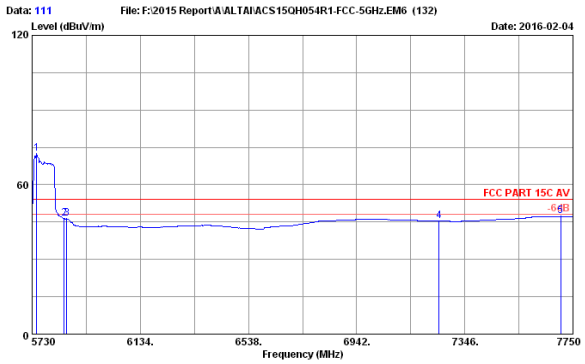
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 110
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT80 5775MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5750.200 | 34.55 | 9.90 | 35.11 | 64.60 | 73.94 | 54.00 | -19.94 | Average |
| 2 | 5850.000 | 34.61 | 9.95 | 35.07 | 36.93 | 46.42 | 54.00 | 7.58 | Average |
| 3 | 5860.000 | 34.62 | 9.95 | 35.07 | 36.35 | 45.85 | 54.00 | 8.15 | Average |
| 4 | 7250.000 | 36.10 | 10.74 | 35.50 | 34.10 | 45.44 | 54.00 | 8.56 | Average |
| 5 | 7703.540 | 36.82 | 11.18 | 35.68 | 34.98 | 47.30 | 54.00 | 6.70 | Average |

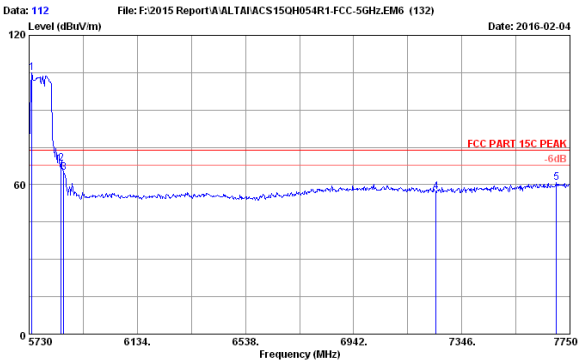
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 111
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT80 5775MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5746.160 | 34.55 | 9.90 | 35.11 | 63.05 | 72.39 | 54.00 | -18.39 | Average |
| 2 | 5850.000 | 34.61 | 9.95 | 35.07 | 36.87 | 46.36 | 54.00 | 7.64 | Average |
| 3 | 5860.000 | 34.62 | 9.95 | 35.07 | 36.83 | 46.33 | 54.00 | 7.67 | Average |
| 4 | 7250.000 | 36.10 | 10.74 | 35.50 | 34.13 | 45.47 | 54.00 | 8.53 | Average |
| 5 | 7703.540 | 36.82 | 11.18 | 35.68 | 34.99 | 47.31 | 54.00 | 6.69 | Average |

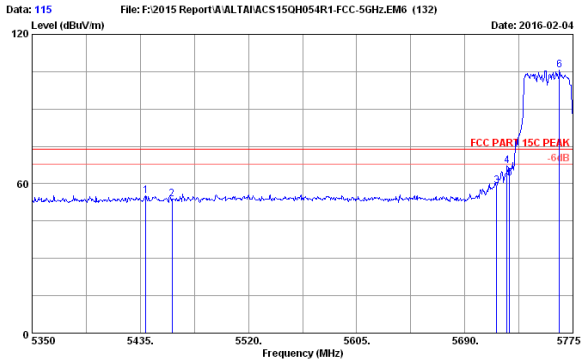
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 112
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT80 5775MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5740.100 | 34.54 | 9.90 | 35.11 | 95.73 | 105.06 | 74.00 | -31.06 | Peak |
| 2 | 5850.000 | 34.61 | 9.95 | 35.07 | 58.87 | 68.36 | 74.00 | 5.64 | Peak |
| 3 | 5860.000 | 34.62 | 9.95 | 35.07 | 55.45 | 64.95 | 74.00 | 9.05 | Peak |
| 4 | 7250.000 | 36.10 | 10.74 | 35.50 | 45.74 | 57.08 | 74.00 | 16.92 | Peak |
| 5 | 7699.500 | 36.82 | 11.18 | 35.68 | 48.52 | 60.84 | 74.00 | 13.16 | Peak |

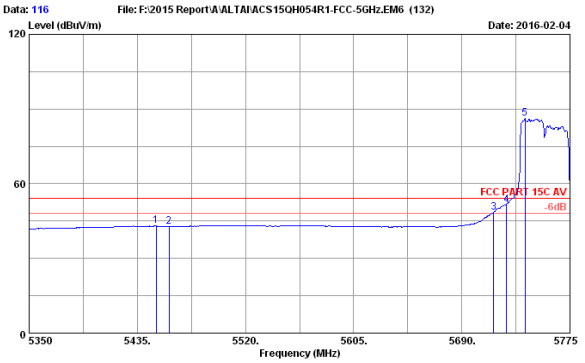
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 115
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5755MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5439.250 | 34.29 | 9.75 | 35.25 | 46.51 | 55.30 | 74.00 | 18.70 | Peak |
| 2 | 5460.000 | 34.33 | 9.76 | 35.25 | 45.00 | 53.84 | 74.00 | 20.16 | Peak |
| 3 | 5715.000 | 34.53 | 9.88 | 35.12 | 49.71 | 59.00 | 74.00 | 15.00 | Peak |
| 4 | 5723.150 | 34.53 | 9.89 | 35.12 | 58.04 | 67.34 | 74.00 | 6.66 | Peak |
| 5 | 5725.000 | 34.53 | 9.89 | 35.12 | 52.86 | 62.16 | 74.00 | 11.84 | Peak |
| 6 | 5764.375 | 34.56 | 9.91 | 35.10 | 96.10 | 105.47 | 74.00 | -31.47 | Peak |

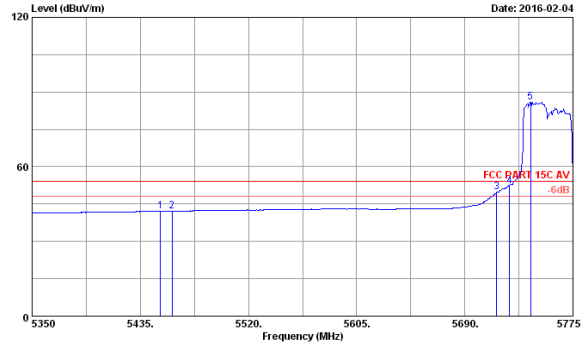
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 116
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5755MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5449.875 | 34.31 | 9.76 | 35.25 | 34.17 | 42.99 | 54.00 | 11.01 | Average |
| 2 | 5460.000 | 34.33 | 9.76 | 35.25 | 33.96 | 42.80 | 54.00 | 11.20 | Average |
| 3 | 5715.000 | 34.53 | 9.88 | 35.12 | 39.30 | 48.59 | 54.00 | 5.41 | Average |
| 4 | 5725.000 | 34.53 | 9.89 | 35.12 | 42.10 | 51.40 | 54.00 | 2.60 | Average |
| 5 | 5739.725 | 34.54 | 9.90 | 35.11 | 76.82 | 86.15 | 54.00 | -32.15 | Average |

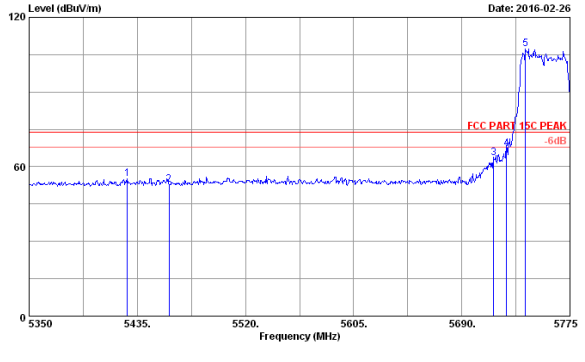
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 117
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5755MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5450.725 | 34.31 | 9.76 | 35.25 | 33.30 | 42.12 | 54.00 | 11.88 | Average |
| 2 | 5460.000 | 34.33 | 9.76 | 35.25 | 33.25 | 42.09 | 54.00 | 11.91 | Average |
| 3 | 5715.000 | 34.53 | 9.88 | 35.12 | 40.39 | 49.68 | 54.00 | 4.32 | Average |
| 4 | 5725.000 | 34.53 | 9.89 | 35.12 | 42.92 | 52.22 | 54.00 | 1.78 | Average |
| 5 | 5741.850 | 34.55 | 9.90 | 35.11 | 76.73 | 86.07 | 54.00 | -32.07 | Average |

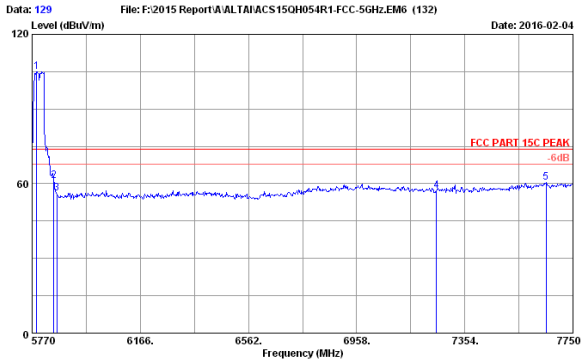
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 118
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5755MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5427.350 | 34.27 | 9.74 | 35.26 | 46.54 | 55.29 | 74.00 | 18.71 | Peak |
| 2 | 5460.000 | 34.33 | 9.76 | 35.25 | 44.00 | 52.84 | 74.00 | 21.16 | Peak |
| 3 | 5715.000 | 34.53 | 9.88 | 35.12 | 54.14 | 63.43 | 74.00 | 10.57 | Peak |
| 4 | 5725.000 | 34.53 | 9.89 | 35.12 | 57.88 | 67.18 | 74.00 | 6.82 | Peak |
| 5 | 5740.150 | 34.54 | 9.90 | 35.11 | 98.01 | 107.34 | 74.00 | -33.34 | Peak |

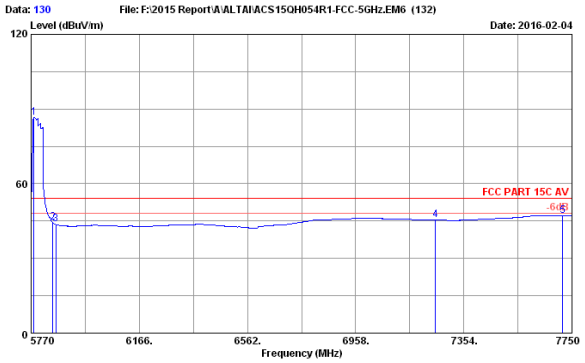
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 129
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5795MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5785.840 | 34.57 | 9.91 | 35.10 | 95.64 | 105.02 | 74.00 | -31.02 | Peak |
| 2 | 5850.000 | 34.61 | 9.95 | 35.07 | 51.64 | 61.13 | 74.00 | 12.87 | Peak |
| 3 | 5860.000 | 34.62 | 9.95 | 35.07 | 46.75 | 56.25 | 74.00 | 17.75 | Peak |
| 4 | 7250.000 | 36.10 | 10.74 | 35.50 | 45.79 | 57.13 | 74.00 | 16.87 | Peak |
| 5 | 7651.000 | 36.79 | 11.13 | 35.66 | 48.20 | 60.46 | 74.00 | 13.54 | Peak |

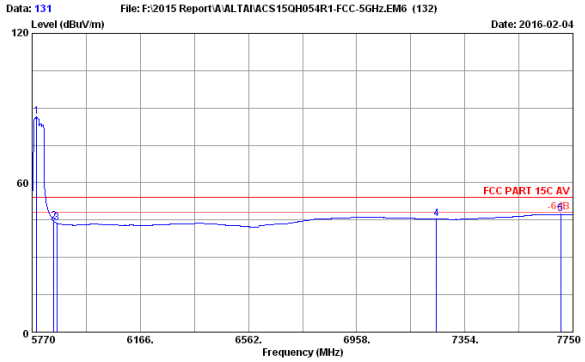
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 130
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5795MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5779.900 | 34.57 | 9.91 | 35.10 | 77.31 | 86.69 | 54.00 | -32.69 | Average |
| 2 | 5850.000 | 34.61 | 9.95 | 35.07 | 34.93 | 44.42 | 54.00 | 9.58 | Average |
| 3 | 5860.000 | 34.62 | 9.95 | 35.07 | 34.16 | 43.66 | 54.00 | 10.34 | Average |
| 4 | 7250.000 | 36.10 | 10.74 | 35.50 | 34.13 | 45.47 | 54.00 | 8.53 | Average |
| 5 | 7716.340 | 36.83 | 11.20 | 35.69 | 34.95 | 47.29 | 54.00 | 6.71 | Average |

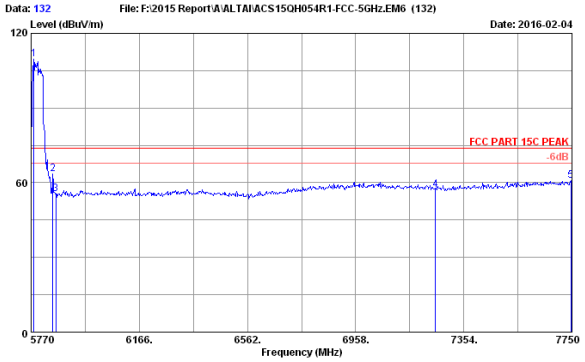
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 131
Dis. / Ant. : 3m 2011329 CABLE Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5795MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5785.840 | 0.00 | 9.91 | 35.10 | 111.72 | 86.53 | 54.00 | -32.53 | Average |
| 2 | 5850.000 | 0.00 | 9.95 | 35.07 | 69.59 | 44.47 | 54.00 | 9.53 | Average |
| 3 | 5860.000 | 0.00 | 9.95 | 35.07 | 68.90 | 43.78 | 54.00 | 10.22 | Average |
| 4 | 7250.000 | 0.00 | 10.74 | 35.50 | 70.26 | 45.50 | 54.00 | 8.50 | Average |
| 5 | 7704.460 | 0.00 | 11.18 | 35.68 | 71.80 | 47.30 | 54.00 | 6.70 | Average |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.




Site no. : 3m Chamber Data no. : 132
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54%
Engineer : Leo-Li
EUT : Altai A8n (ac) Super WiFi Base Station
Power rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5795MHz Tx
WA8011NAC-X

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5779.900 | 34.57 | 9.91 | 35.10 | 100.20 | 109.58 | 74.00 | -35.58 | Peak |
| 2 | 5850.000 | 34.61 | 9.95 | 35.07 | 53.99 | 63.48 | 74.00 | 10.52 | Peak |
| 3 | 5860.000 | 34.62 | 9.95 | 35.07 | 45.84 | 55.34 | 74.00 | 18.66 | Peak |
| 4 | 7250.000 | 36.10 | 10.74 | 35.50 | 45.87 | 57.21 | 74.00 | 16.79 | Peak |
| 5 | 7746.040 | 36.85 | 11.22 | 35.70 | 48.41 | 60.78 | 74.00 | 13.22 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.

# 6. 6dB&26dB Bandwidth Test

## 6.1.Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|---|---|---|---|---|---|---|
| 1. | Spectrum | Agilent | E4446A | US44300459 | Apr.28,15 | 1 Year |
| 2. | Spectrum | Agilent | N9030A | MY51380221 | Oct.18,15 | 1Year |
| 3. | Attenuator (20dB) | Agilent | 8491B | MY39262165 | Apr.28,15 | 1 Year |
| 4. | RF Cable | Marvelous Microwave Inc | SFL402105FLEX | NO.1 | Oct.17.15 | 1 Year |

## 6.2.Limit

6dB Bandwidth should be not less than 500kHz

## 6.3.Test Procedure

**6dB Bandwidth:**
The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300 KHz VBW for signal width below 20MHz and 300KHz RBW ,1MHz VBW for Above 20MHz signal Bandwidth.

**26dB Bandwidth:**
The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300 KHz VBW The 26dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 26dB.

## 6.4.Test Results

**6dB bandwidth**

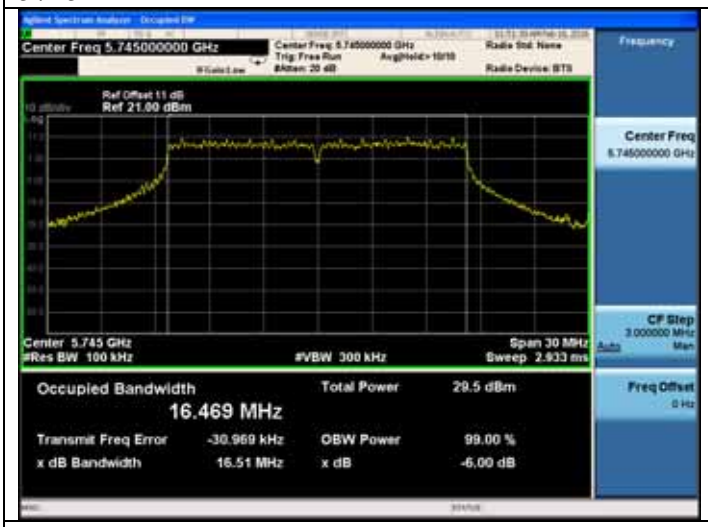
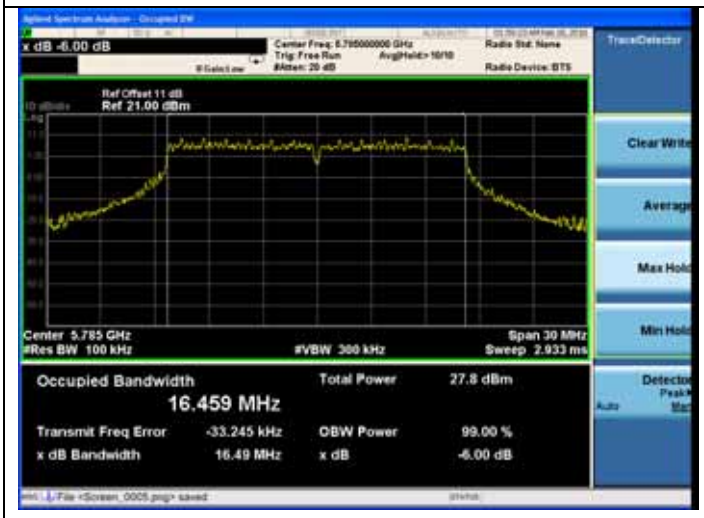
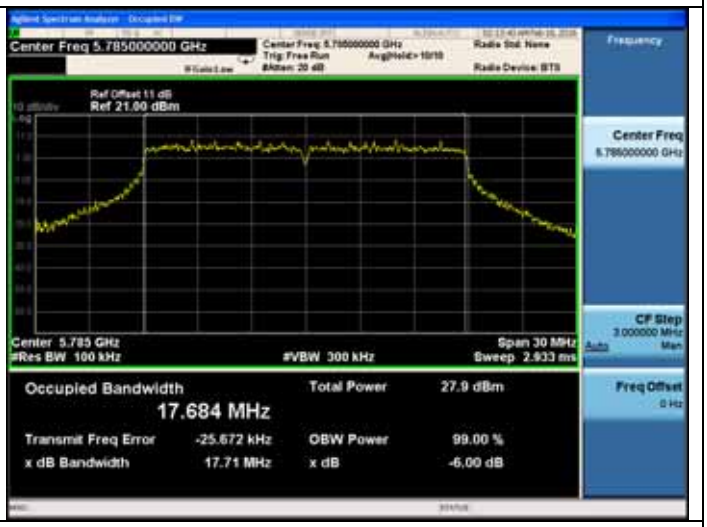
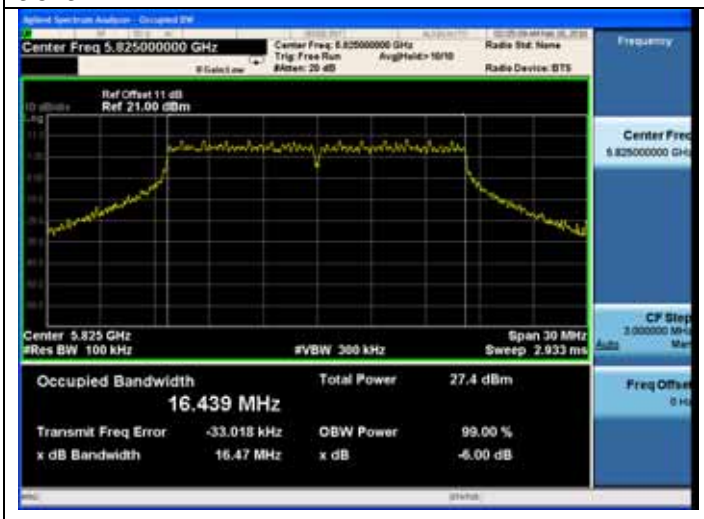
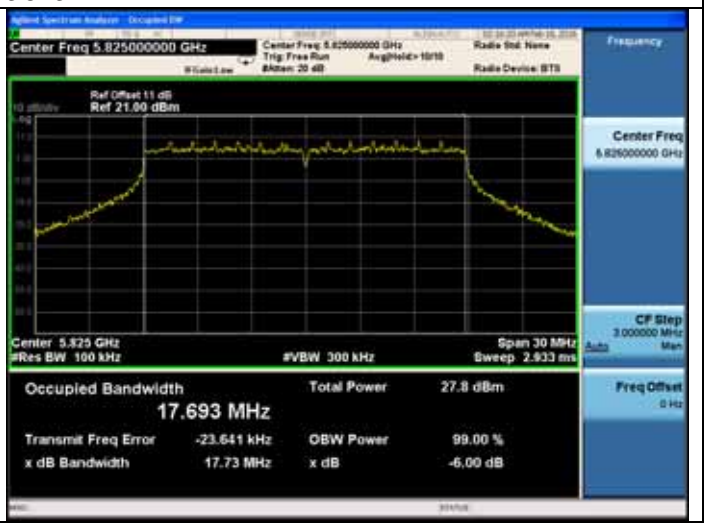
| | | |
|---|---|---|
| EUT: Altai A8n (ac) Super WiFi Base Station | | |
| M/N: WA8011NAC-X | | |
| Test date: 2016-02-18 | Pressure: 101.3±1.0 kpa | Humidity: 50.4±3.0% |
| Tested by: Donjon_Huang | Test site: RF site | Temperature: 21.3±0.6 ℃ |

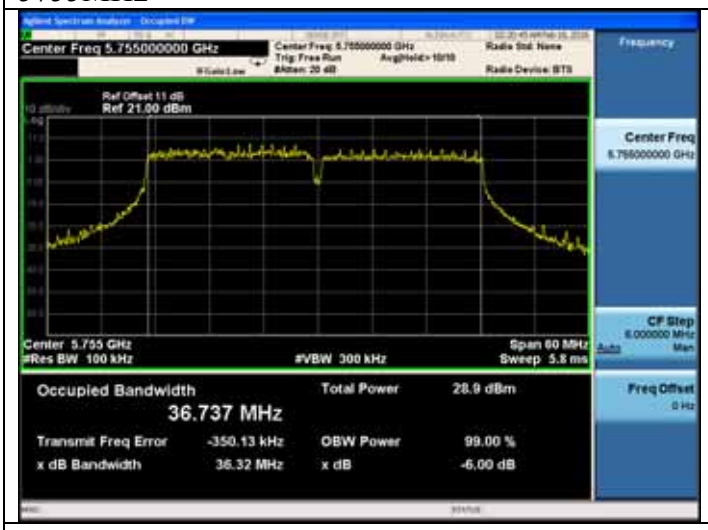
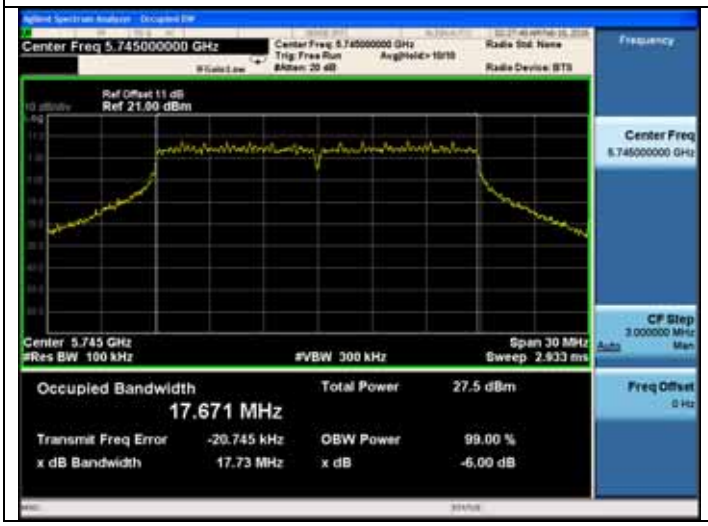
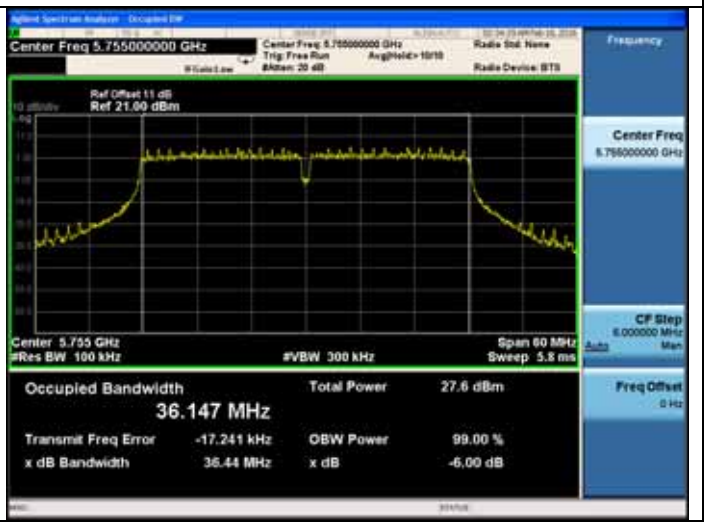
| Test Mode | CH | 6dB bandwidth (MHz) | | Limit (KHz) |
|---|---|---|---|---|
| | | ANT1 | ANT2 | |
| 11a | CH149 | 16.51 | 16.44 | ≧500 |
| | CH157 | 16.49 | 16.48 | ≧500 |
| | CH165 | 16.47 | 16.51 | ≧500 |
| 11n HT20 | CH149 | 17.69 | 17.67 | ≧500 |
| | CH157 | 17.71 | 17.71 | ≧500 |
| | CH165 | 17.73 | 17.73 | ≧500 |
| 11n HT40 | CH151 | 36.32 | 37.11 | ≧500 |
| | CH159 | 36.42 | 36.46 | ≧500 |
| 11ac VHT20 | CH149 | 17.73 | 17.68 | ≧500 |
| | CH157 | 17.72 | 17.71 | ≧500 |
| | CH165 | 17.68 | 17.57 | ≧500 |
| 11ac VHT40 | CH151 | 36.44 | 35.12 | ≧500 |
| | CH159 | 35.50 | 35.85 | ≧500 |
| 11ac VHT80 | CH155 | 75.14 | 72.58 | ≧500 |
| Conclusion：PASS | | | | |

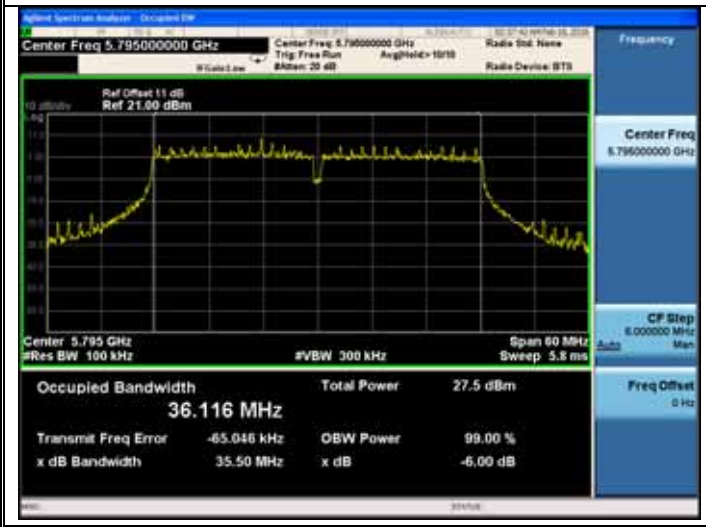
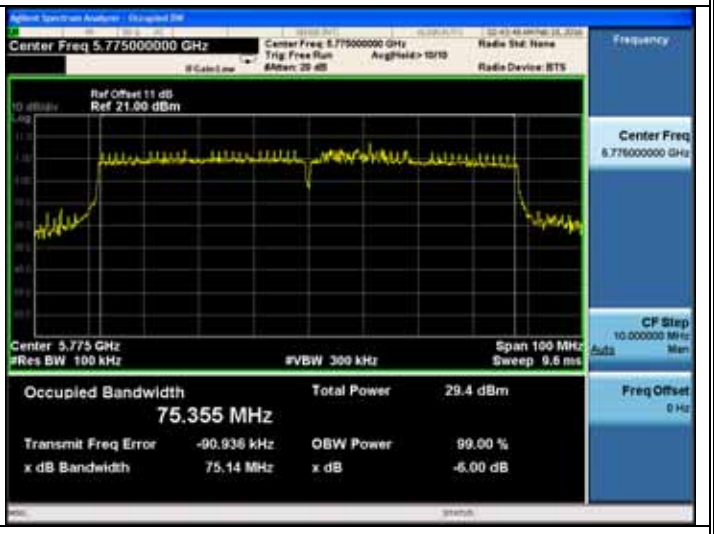
**26dB bandwidth**

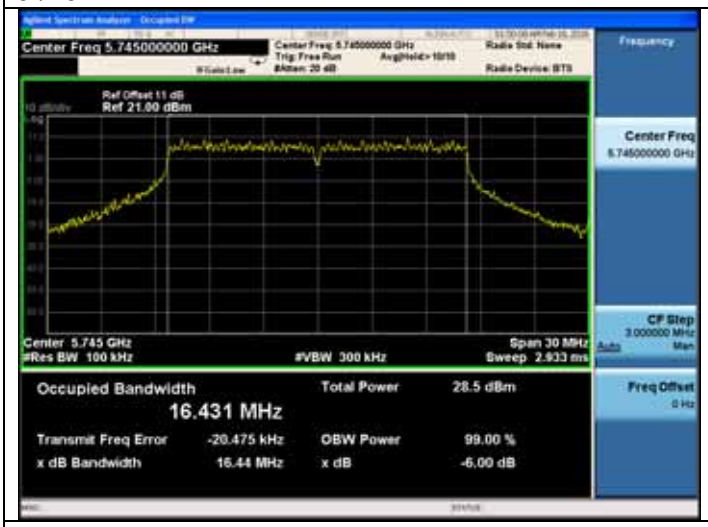
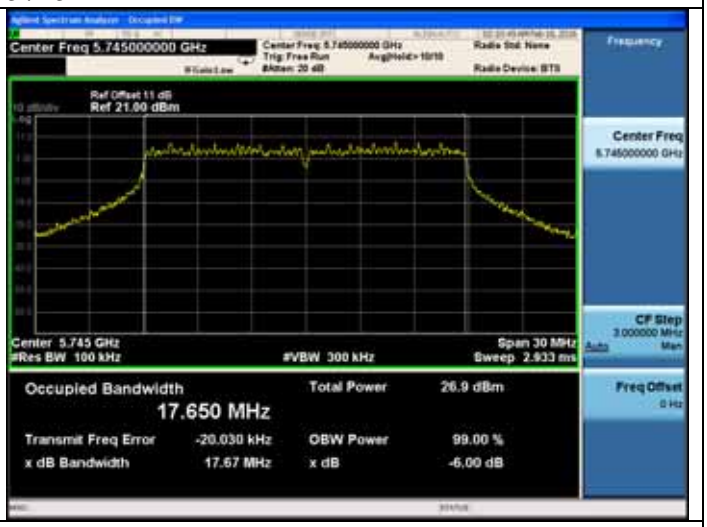
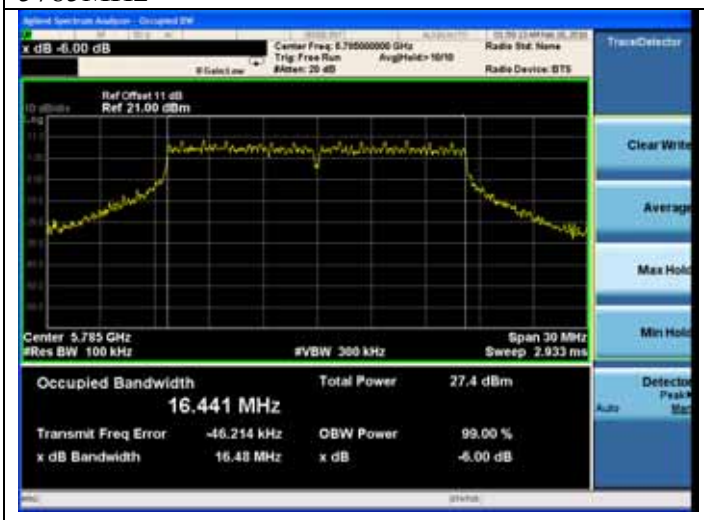
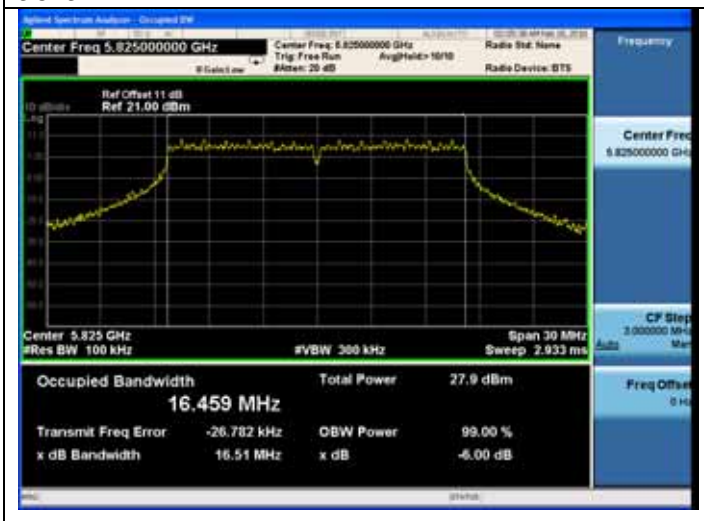
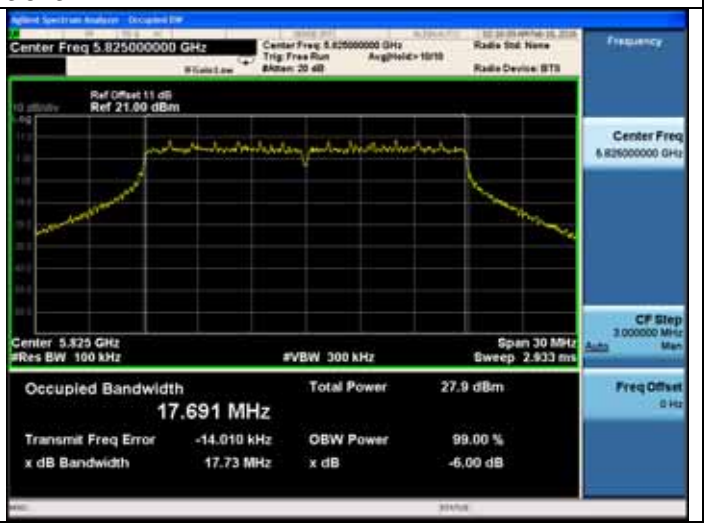
| | | |
|---|---|---|
| EUT: Altai A8n (ac) Super WiFi Base Station | | |
| M/N: WA8011NAC-X | | |
| Test date: 2016-02-18 | Pressure: 101.8±1.0 kpa | Humidity: 50.2±3.0% |
| Tested by: Donjon_Huang | Test site: RF site | Temperature:20.5±0.6 ℃ |

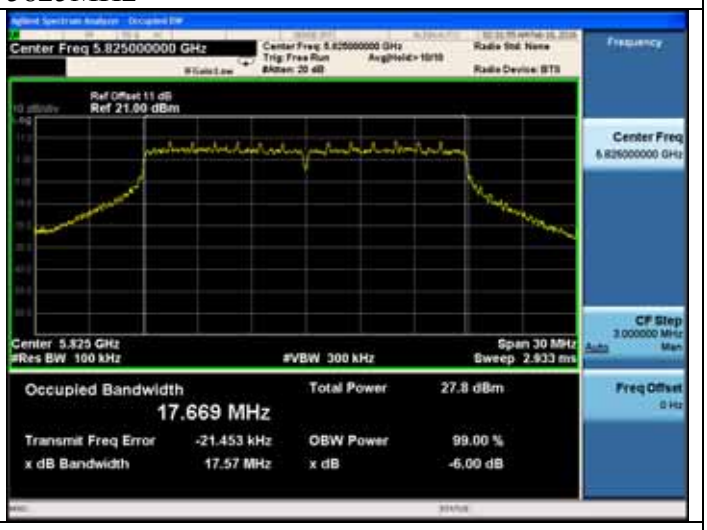
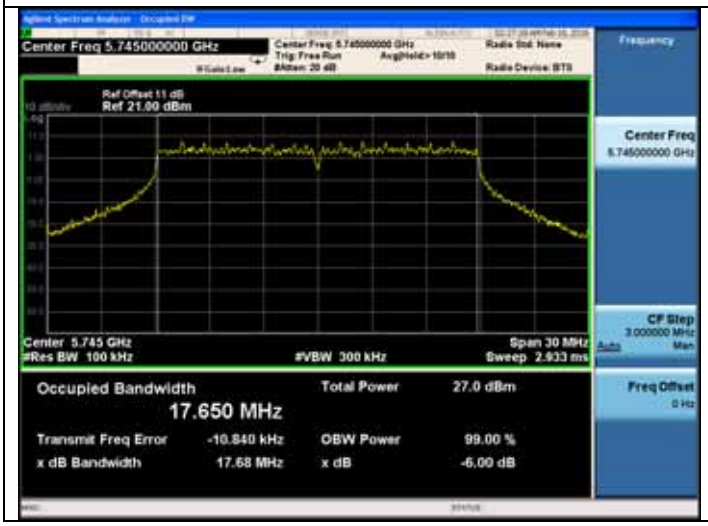
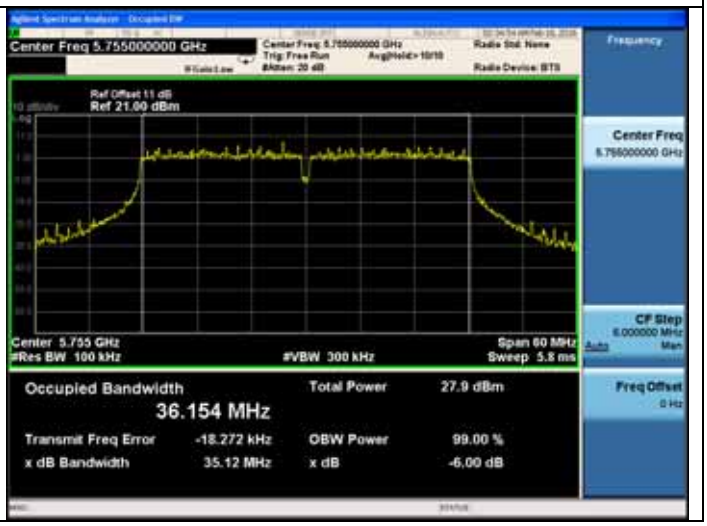
| Test Mode | CH | 26dB bandwidth (MHz) | | Limit (KHz) |
|---|---|---|---|---|
| | | ANT1 | ANT2 | |
| 11a | CH149 | 20.52 | 19.43 | N/A |
| | CH157 | 20.02 | 19.80 | N/A |
| | CH165 | 19.84 | 20.05 | N/A |
| 11n HT20 | CH149 | 21.17 | 20.56 | N/A |
| | CH157 | 21.13 | 20.99 | N/A |
| | CH165 | 20.64 | 20.91 | N/A |
| 11n HT40 | CH151 | 39.86 | 39.62 | N/A |
| | CH159 | 39.29 | 39.62 | N/A |
| 11ac VHT20 | CH149 | 20.99 | 20.75 | N/A |
| | CH157 | 21.10 | 21.09 | N/A |
| | CH165 | 20.80 | 20.89 | N/A |
| 11ac VHT40 | CH151 | 39.03 | 38.68 | N/A |
| | CH159 | 38.74 | 38.74 | N/A |
| 11ac VHT80 | CH155 | 78.29 | 77.79 | N/A |
| Conclusion：PASS | | | | |

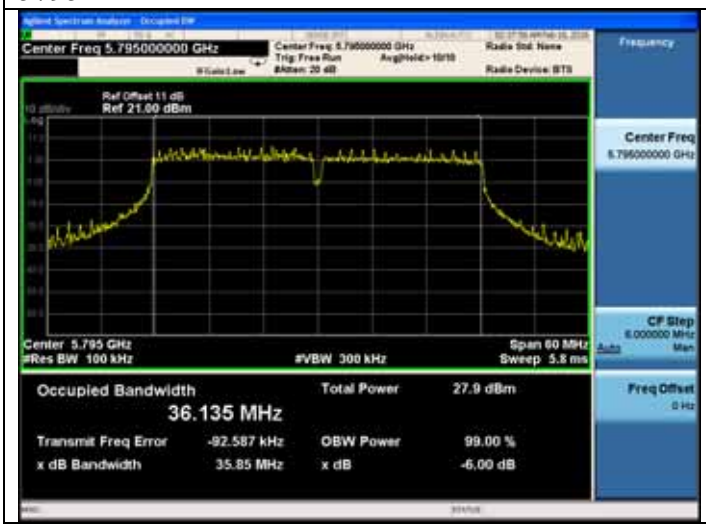
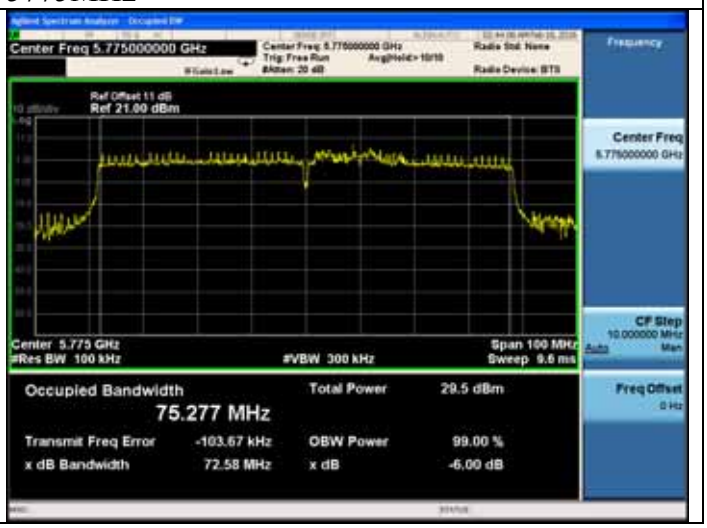
| 6dB bandwidth | |
|---|---|
| ANT 1 | |
| 11a | 11n HT20 |
| 5745MHz | 5745MHz |
|  |  |
| 5785MHz | 5785MHz |
|  |  |
| 5825MHz | 5825MHz |
|  |  |

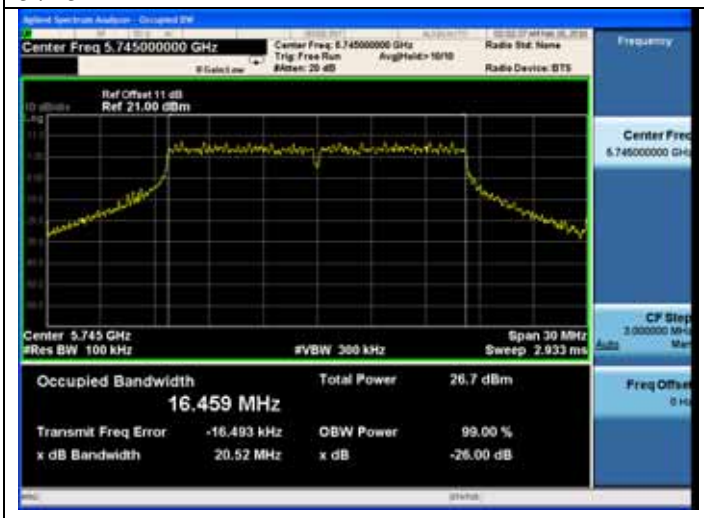
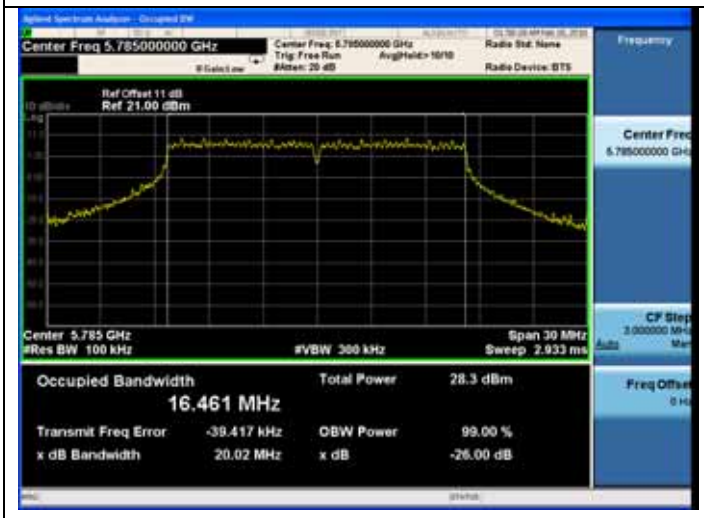
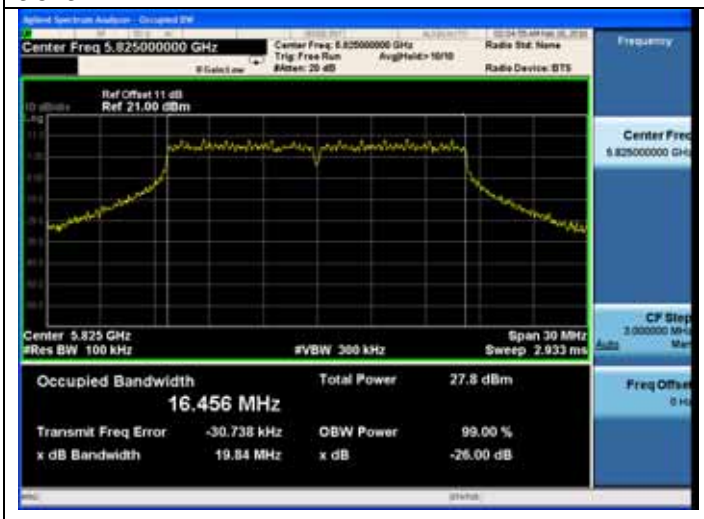
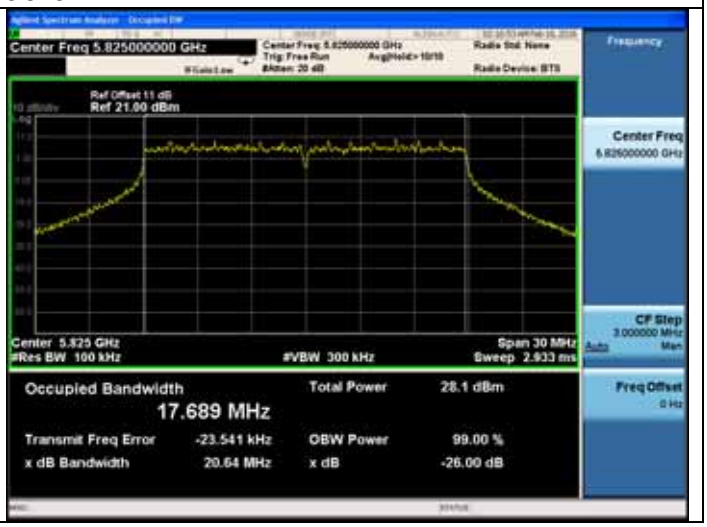
| **11n HT40** | |
|---|---|
| 5755MHz | 5785MHz |
|  |  |
| 5795MHz | 5825MHz |
|  |  |
| **11ac VHT20** | **11ac VHT40** |
| 5745MHz | 5755MHz |
|  |  |

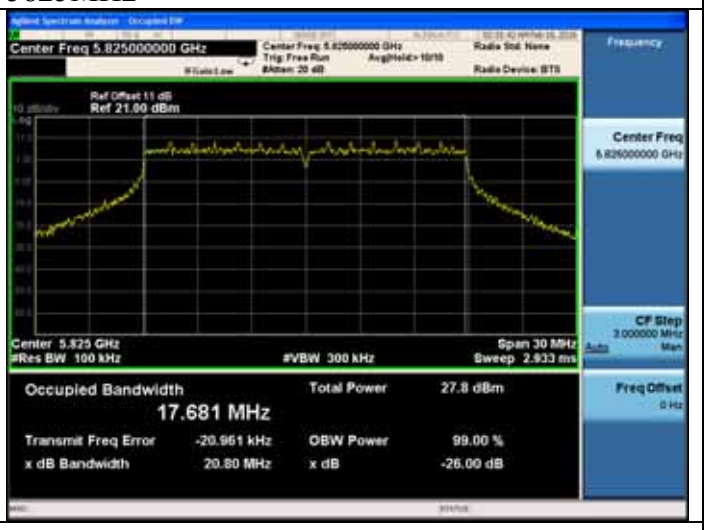
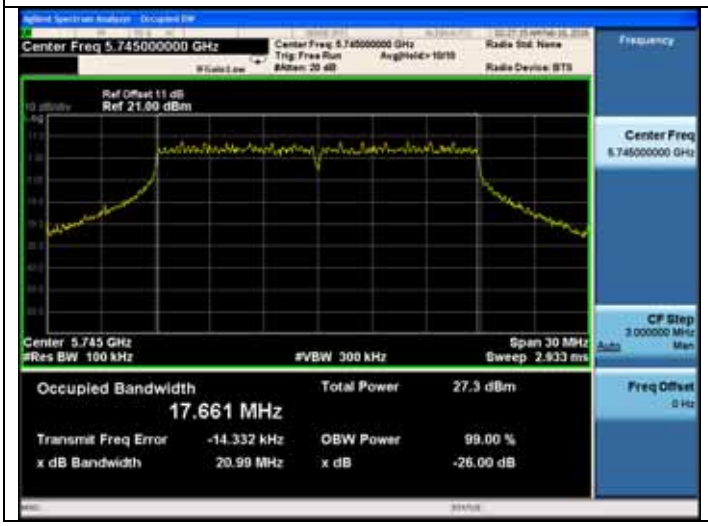
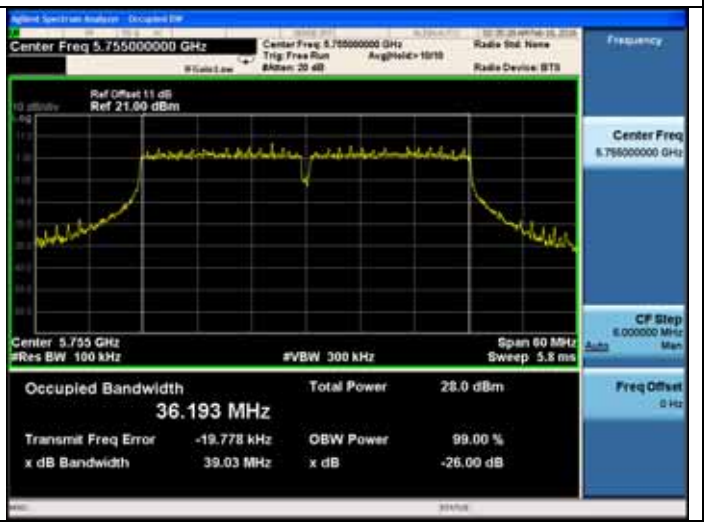
| | |
|---|---|
| | **11ac VHT80** |
| 5795MHz | 5775MHz |
|  |  |
| | |

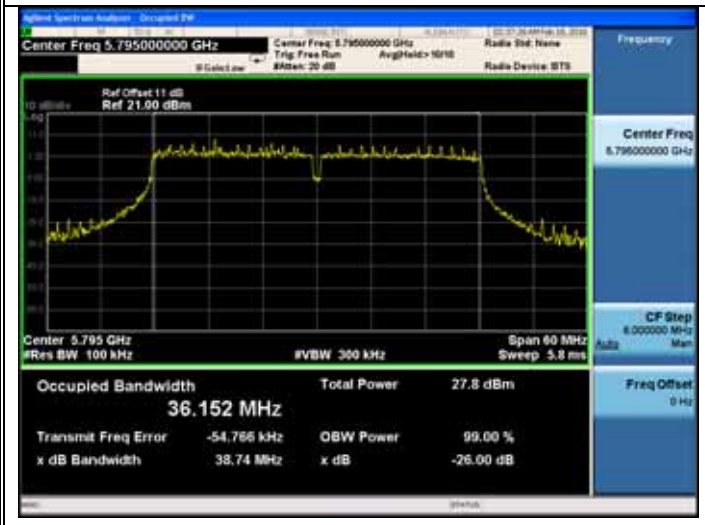
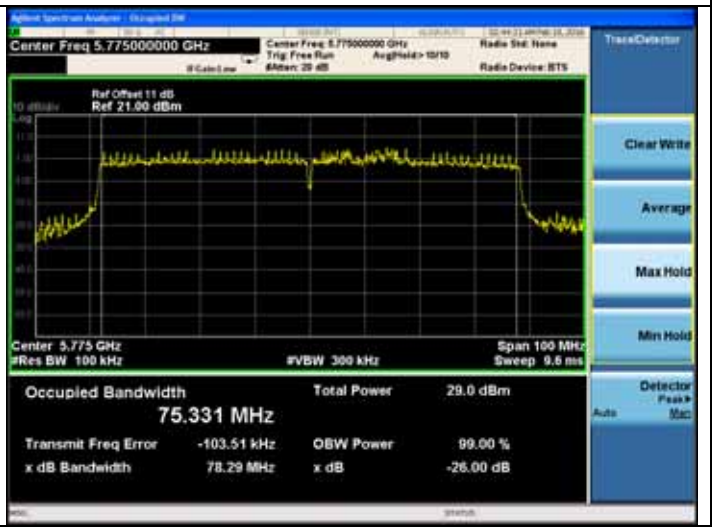
| 6dB bandwidth | |
|---|---|
| ANT 2 | |
| 11a | 11n HT20 |
| 5745MHz | 5745MHz |
|  |  |
| 5785MHz | 5785MHz |
|  |  |
| 5825MHz | 5825MHz |
|  |  |

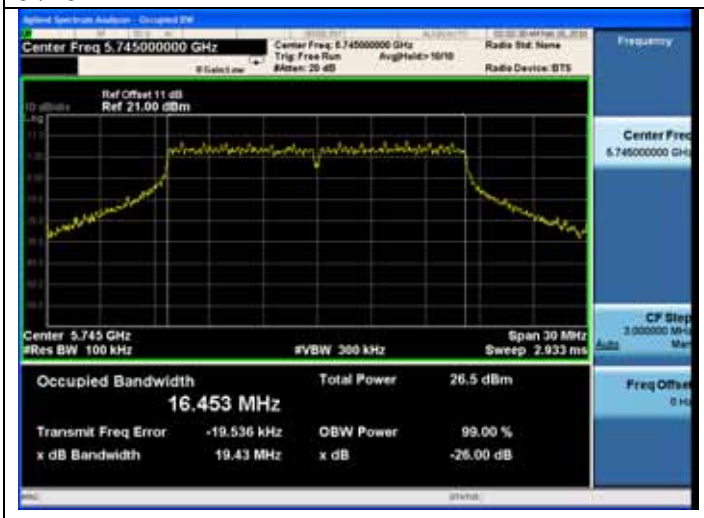
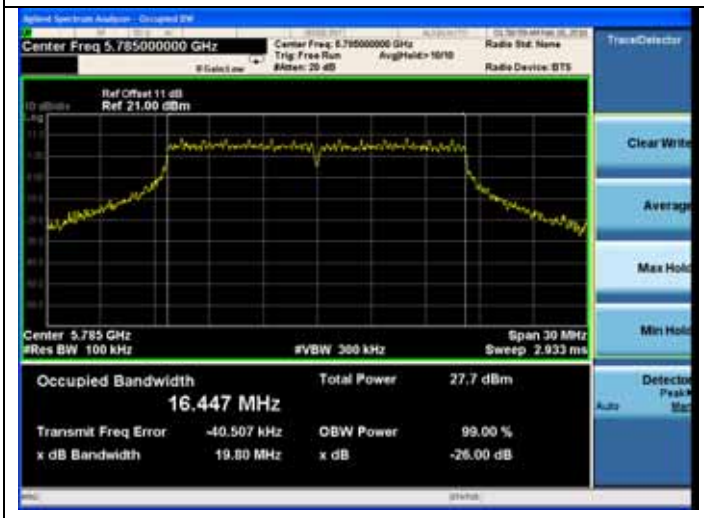
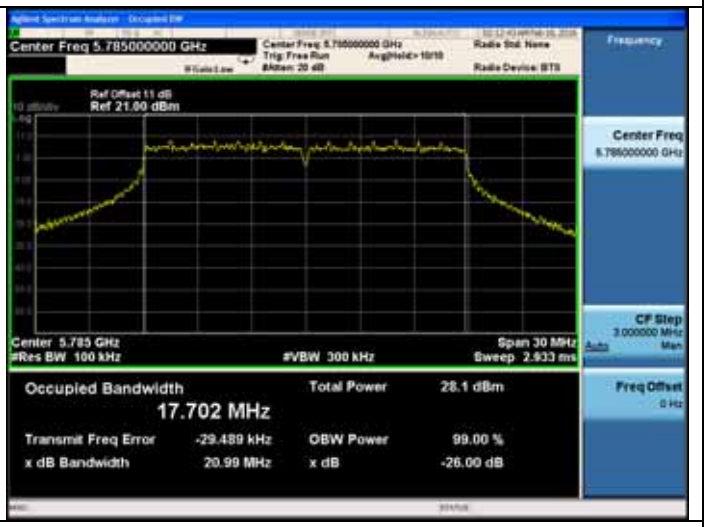
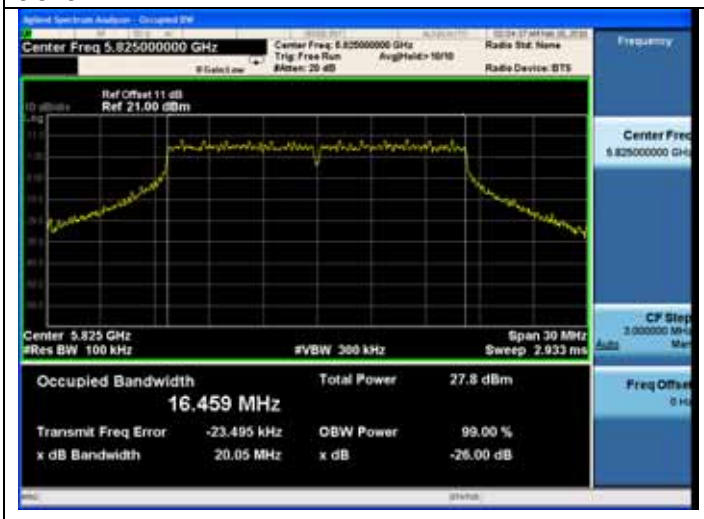
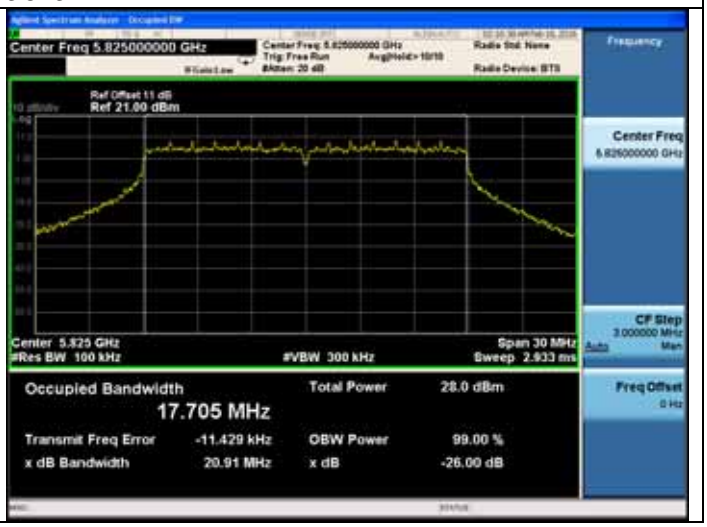
| **11n HT40** | |
|---|---|
| 5755MHz | 5785MHz |
|  |  |
| 5795MHz | 5825MHz |
|  |  |
| **11ac VHT20** | **11ac VHT40** |
| 5745MHz | 5755MHz |
|  |  |

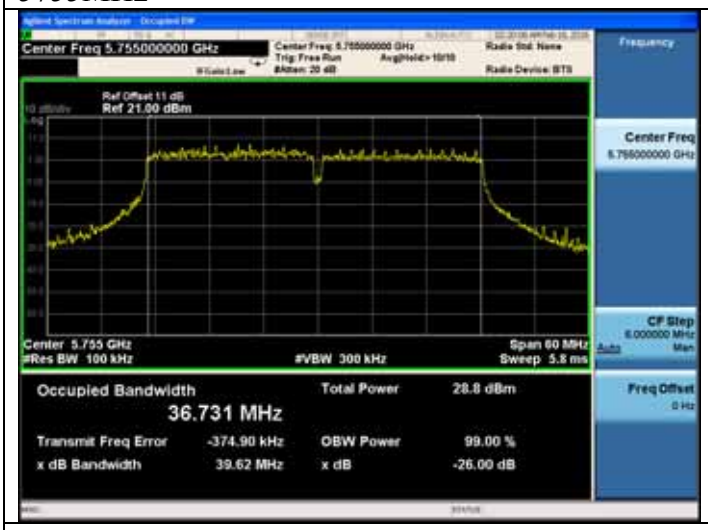
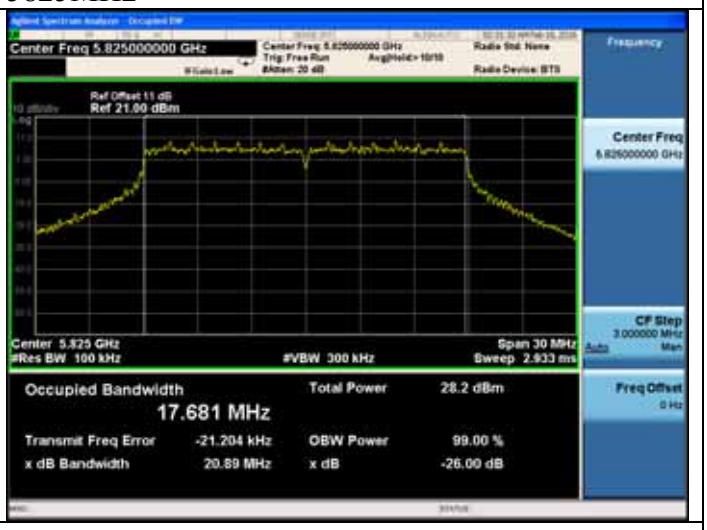
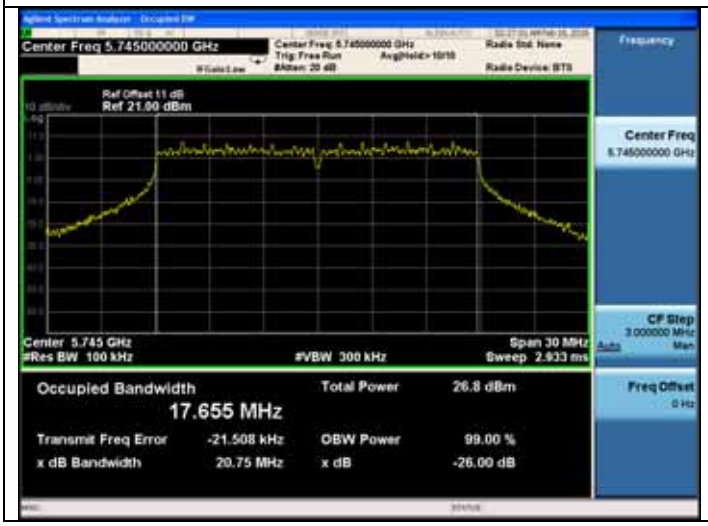
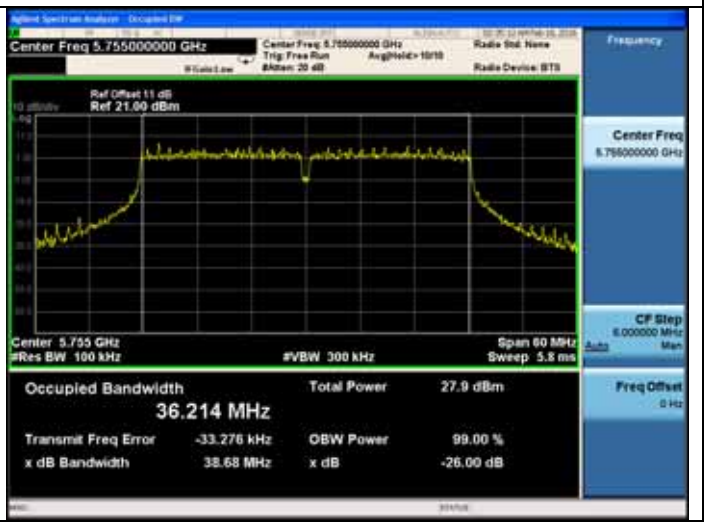
| | |
|---|---|
| | **11ac VHT80** |
| 5795MHz | 5775MHz |
|  |  |

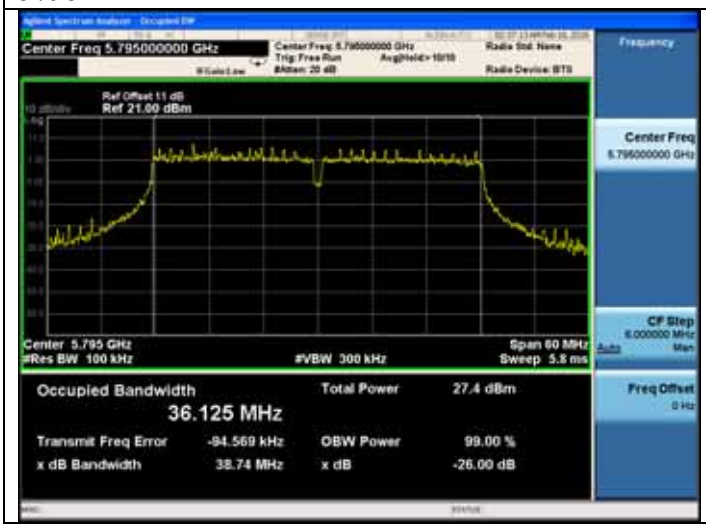
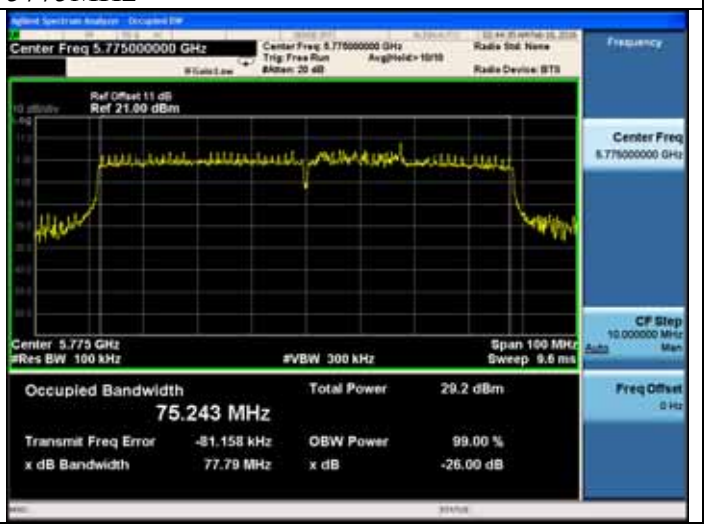
| 26dB bandwidth | |
|---|---|
| ANT 1 | |
| 11a | 11n HT20 |
| 5745MHz | 5745MHz |
|  |  |
| 5785MHz | 5785MHz |
|  |  |
| 5825MHz | 5825MHz |
|  |  |

| **11n HT40** | |
|---|---|
| 5755MHz | 5785MHz |
|  |  |
| 5795MHz | 5825MHz |
|  |  |
| **11ac VHT20** | **11ac VHT40** |
| 5745MHz | 5755MHz |
|  |  |

| | |
|---|---|
| | **11ac VHT80** |
| 5795MHz | 5775MHz |
|  |  |

| 26dB bandwidth | |
|---|---|
| ANT 2 | |
| 11a | 11n HT20 |
| 5745MHz | 5745MHz |
|  |  |
| 5785MHz | 5785MHz |
|  |  |
| 5825MHz | 5825MHz |
|  |  |

| **11n HT40** | |
|---|---|
| 5755MHz | 5785MHz |
|  |  |
| 5795MHz | 5825MHz |
|  |  |
| **11ac VHT20** | **11ac VHT40** |
| 5745MHz | 5755MHz |
|  |  |

| | |
|---|---|
| | **11ac VHT80** |
| 5795MHz | 5775MHz |
|  |  |

# 7. OUTPUT POWER TEST

## 7.1. Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|---|---|---|---|---|---|---|
| 1. | Spectrum | Agilent | E4446A | US44300459 | Apr.28,15 | 1 Year |
| 2. | Spectrum | Agilent | N9030A | MY51380221 | Oct.18,15 | 1Year |
| 3. | Power meter | Anritsu | ML2487A | 6K00002472 | Aug.21,15 | 1Year |
| 4. | Power sensor | Anritsu | MA2491A | 0033005 | Aug.21,15 | 1Year |
| 5. | Attenuator (20dB) | Agilent | 8491B | MY39262165 | Apr.28,15 | 1 Year |
| 6. | RF Cable | Marvelous Microwave Inc | SFL402105FLEX | NO.1 | Oct.17,15 | 1 Year |

## 7.2. Limit

For the band 5.15–5.25 GHz.
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 max-imum antenna gain does not exceed 6 dBi.
For the 5.25–5.35 GHz and 5.47–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.
For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

## 7.3. Test Procedure

1. Connected the EUT's antenna port to measure device by 26dB attenuator.
2. For IEEE 802.11a and IEEE802.11n HT20 and 802.11ac VHT20 mode, use a PK power meter which's bandwidth is 20MHz and above 26dB bandwidth of signal to measure out each test modes' PK output power.
3. For IEEE802.11n HT40 mode, because the signal's bandwidth is about 40MHz and above 20MHz bandwidth of power sensor ML2491A. So use the test method described in KBD789033 clause E Method SA-1
   1) Connect the antenna port to the spectrum analyzer and Set span of the spectrum to encompass the entire emission bandwidth (EBW) of the signal.
   2) Set the RBW=1MHz and VBW =3MHz
   3) Number of points in sweep ≥ 2 Span / RBW
   4) Detector = RMS
   5) Sweep time = auto couple
   6) Allow the sweep to "free run" and set the Trace average at least 100 traces in power averaging (i.e., RMS) mode.
   7) Compute power by integrating the spectrum across the 26 dB EBW of the signal using the instrument's band power measurement function with band limits set equal to the EBW band edges.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

## 7.4.Test Results

| EUT: Altai A8n (ac) Super WiFi Base Station | | | | | |
|---|---|---|---|---|---|
| M/N: WA8011NAC-X | | | | | |
| Test date: 2016-02-18 | | Pressure:101.8±1.0 kpa | | Humidity:50.3±3.0% | |
| Tested by: Donjon_Huang | | Test site: RF site | | Temperature:20.2±0.6 ℃ | |
| Test Mode | Frequency (MHz) | Maximum Conducted output power (dBm) | | | Limit (dBm) |
| | | ANT1 | ANT2 | Total | |
| 11a | 5745 | 11.67 | 11.57 | 14.63 | 13 |
| | 5785 | 12.60 | 11.78 | 15.22 | 13 |
| | 5825 | 12.63 | 12.03 | 15.35 | 13 |
| 11n HT20 | 5745 | 11.41 | 11.07 | 14.25 | 13 |
| | 5785 | 11.60 | 11.47 | 14.55 | 13 |
| | 5825 | 11.93 | 10.88 | 14.45 | 13 |
| 11n HT40 | 5755 | 12.49 | 12.24 | 15.38 | 13 |
| | 5795 | 12.43 | 12.00 | 15.23 | 13 |
| 11ac VHT20 | 5745 | 11.43 | 11.88 | 14.67 | 13 |
| | 5785 | 12.25 | 11.41 | 14.86 | 13 |
| | 5825 | 12.48 | 11.45 | 15.01 | 13 |
| 11ac VHT40 | 5755 | 11.96 | 11.76 | 14.87 | 13 |
| | 5795 | 12.03 | 11.87 | 14.96 | 13 |
| 11ac VHT80 | 5775 | 12.35 | 11.65 | 15.02 | 13 |
| Conclusion: PASS | | | | | |

Directional Gain=$G_{ANT}$ + 10log2(dBi)
=20dBi+3dBi
=23dBi＞6dBi
Output Power Limit=30dBm-(23dBi-6dBi)
=13dBm

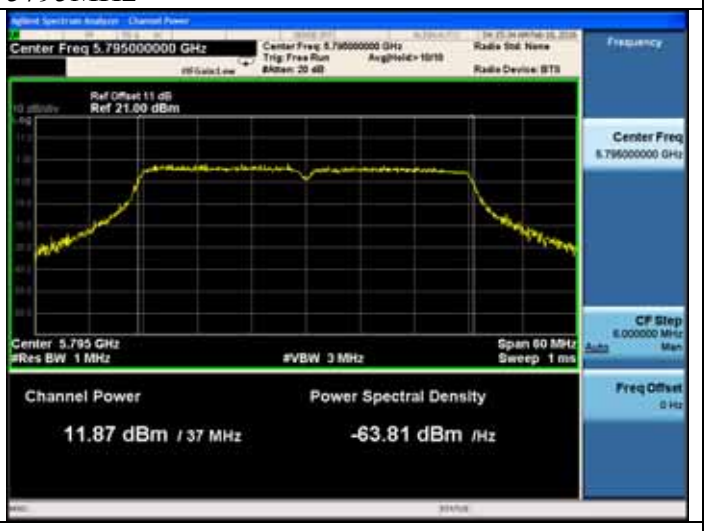
| ANT 1 | |
|---|---|
| **11n HT40** | |
| 5755MHz | 5795MHz |
|  |  |
| | **11ac VHT80** |
| 5795MHz | 5775MHz |
|  |  |
| **11acVHT40** | |
| 5755MHz | |
|  | |

**ANT 2**

**11n HT40**

5755MHz


5795MHz




**11ac VHT80**

5795MHz


5775MHz


**11acVHT40**

5755MHz

# 8. SPECTRAL DENSITY TEST

## 8.1.Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|---|---|---|---|---|---|---|
| 1. | Spectrum | Agilent | E4446A | US44300459 | Apr.28,15 | 1 Year |
| 2. | Spectrum | Agilent | N9030A | MY51380221 | Oct.18,15 | 1Year |
| 3. | Attenuator (20dB) | Agilent | 8491B | MY39262165 | Apr.28,15 | 1 Year |
| 4. | RF Cable | Marvelous Microwave Inc | SFL402105FLEX | NO.1 | Oct.17,15 | 1 Year |

## 8.2.Limit

**Band 5150-5250 MHz:**
The e.i.r.p spectral density shall not exceed 10 dBm in any 1.0 MHz band.
**Band 5250-5350 MHz:**
The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.
**Band 5470-5725 MHz:**
The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.
**Band 5725-5850 MHz:**
The power spectral density shall not exceed 30 dBm in any 500 KHz band.

## 8.3.Test Procedure

For the Band 5.15-5.25GHz:
The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 1MHz RBW and 3MHz VBW; Detector: RMS mode.

For the band 5.725-5.85 GHz:
The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 1MHz RBW and 3MHz VBW,RMS Detector.
So use the test method described in KDB789033 clause E

1) Set the RBW=100kHz and VBW =3MHz
2) Number of points in sweep ≥ 2 Span / RBW.(This ensures that bin-to-bin spacing is ≤ RBW/2, so that narrowband signals are not lost between frequency bins.)
3) Sweep time = auto
4) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
5) Use the “peak search” function of spectrum analyzer find the max value, then add 10log (500kHz/RBW) to the measured result.

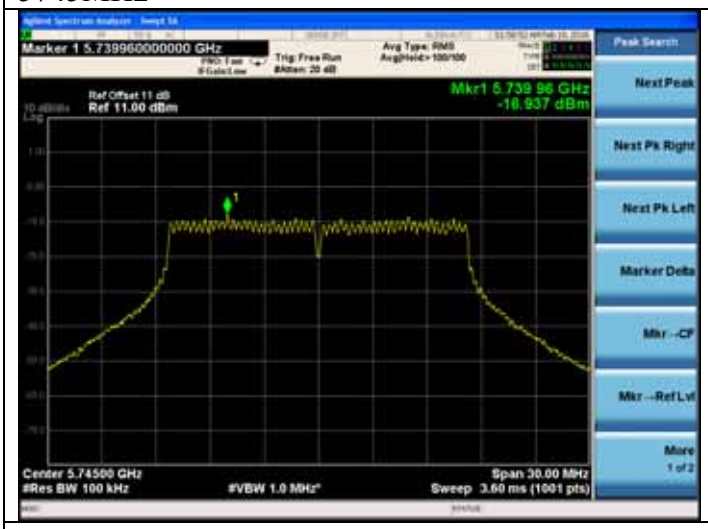
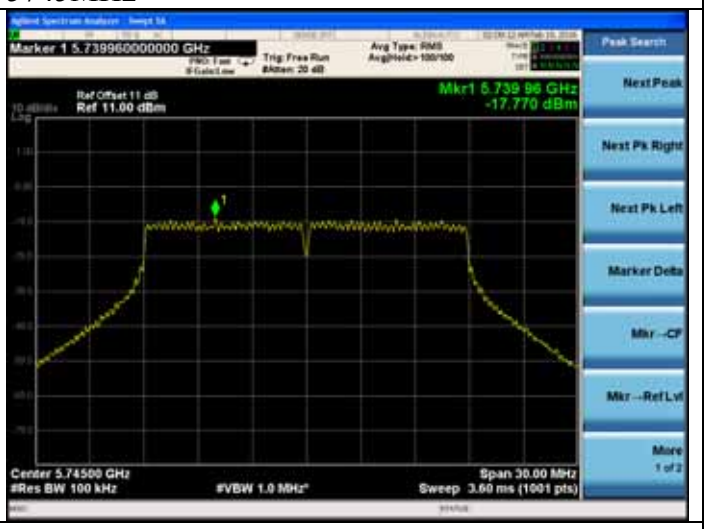
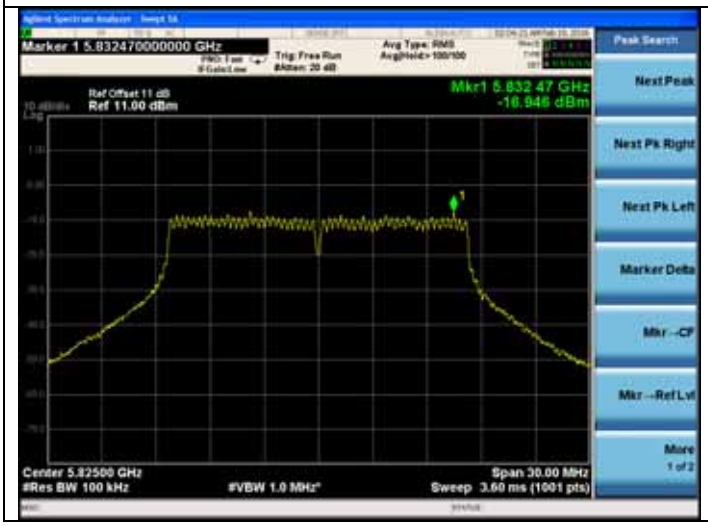
Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

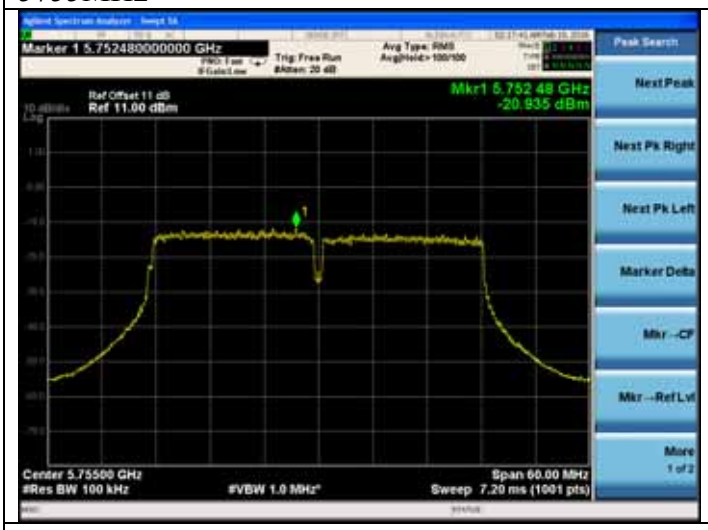
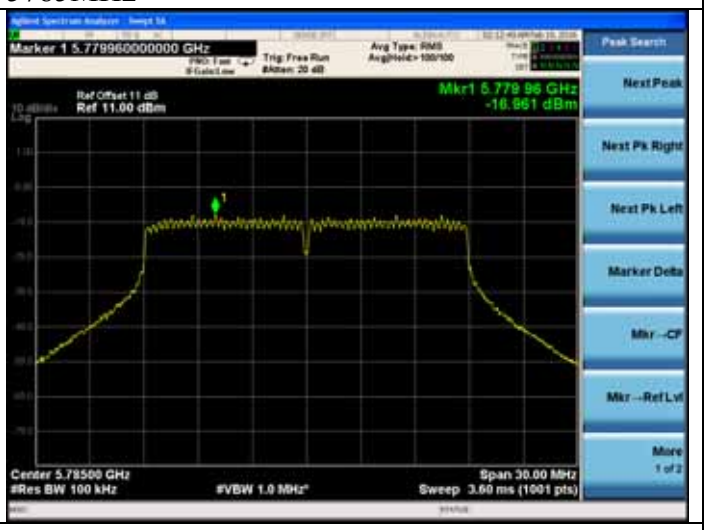
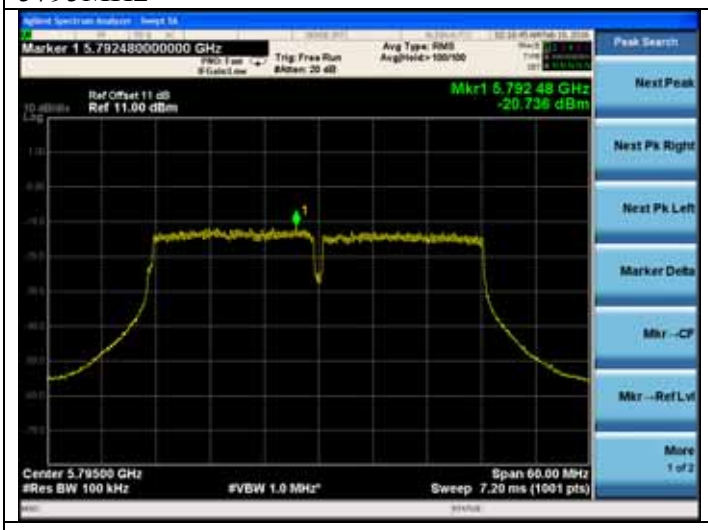
## 8.4.Test Results

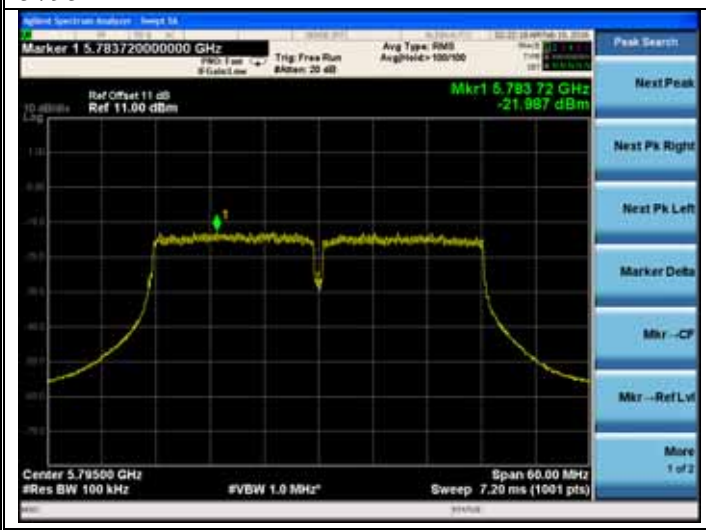
| | | |
|---|---|---|
| EUT: Altai A8n (ac) Super WiFi Base Station | | |
| M/N: WA8011NAC-X | | |
| Test date: 2016-02-19 | Pressure:101.8±1.0 kpa | Humidity:50.3±3.0% |
| Tested by: Donjon_Huang | Test site: RF site | Temperature:20.2±0.6 ℃ |

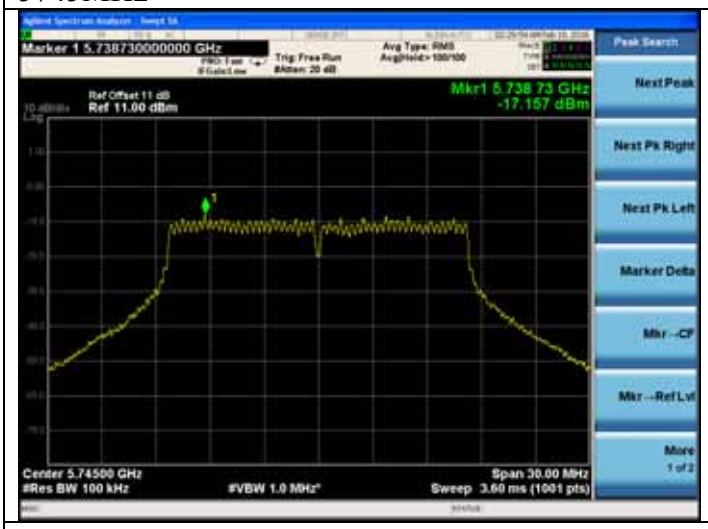
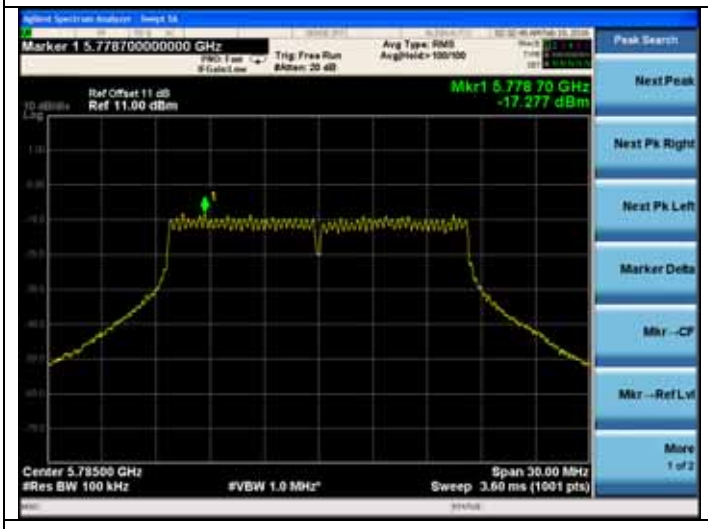
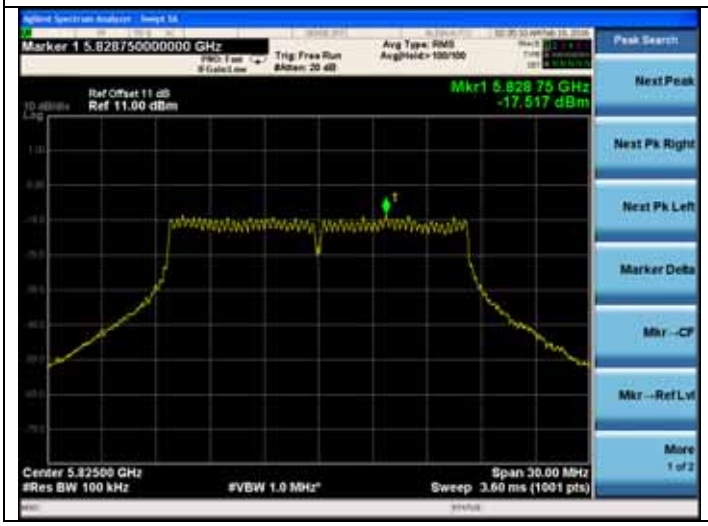
| Test Mode | Frequency (MHz) | Power density (dBm/500KHz) | | | Limit (dBm/500KHz) |
|---|---|---|---|---|---|
| | | ANT1 | ANT2 | Total | |
| 11a | 5745 | -9.9473 | -10.1673 | -7.05 | 13 |
| | 5785 | -9.8283 | -10.2873 | -7.04 | 13 |
| | 5825 | -9.9563 | -10.5273 | -7.22 | 13 |
| 11n HT20 | 5745 | -10.7803 | -11.0053 | -7.88 | 13 |
| | 5785 | -10.7663 | -10.8463 | -7.80 | 13 |
| | 5825 | -10.2723 | -11.2683 | -7.73 | 13 |
| 11n HT40 | 5755 | -13.9453 | -14.0593 | -10.99 | 13 |
| | 5795 | -13.7463 | -13.4163 | -10.57 | 13 |
| 11ac VHT20 | 5745 | -10.3513 | -10.1923 | -7.26 | 13 |
| | 5785 | -9.9713 | -9.6933 | -6.82 | 13 |
| | 5825 | -10.0513 | -10.1443 | -7.09 | 13 |
| 11ac VHT40 | 5755 | -15.7873 | -14.9923 | -12.36 | 13 |
| | 5795 | -14.9973 | -15.0123 | -11.99 | 13 |
| 11ac VHT80 | 5775 | -19.7583 | -19.7523 | -16.74 | 13 |
| Conclusion: PASS | | | | | |

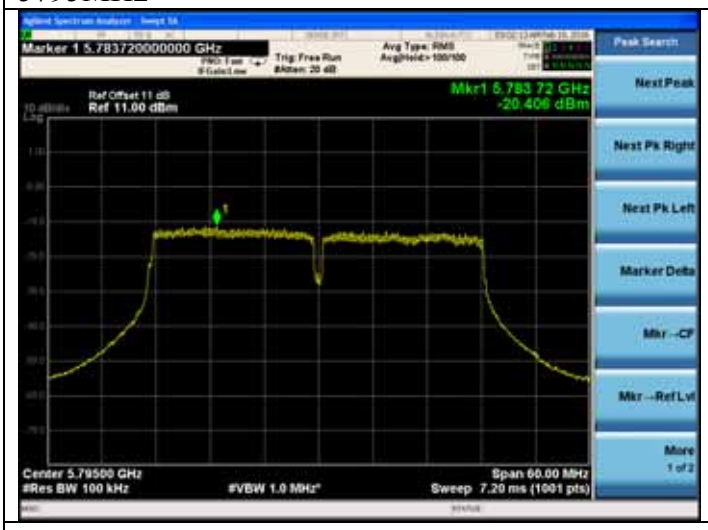
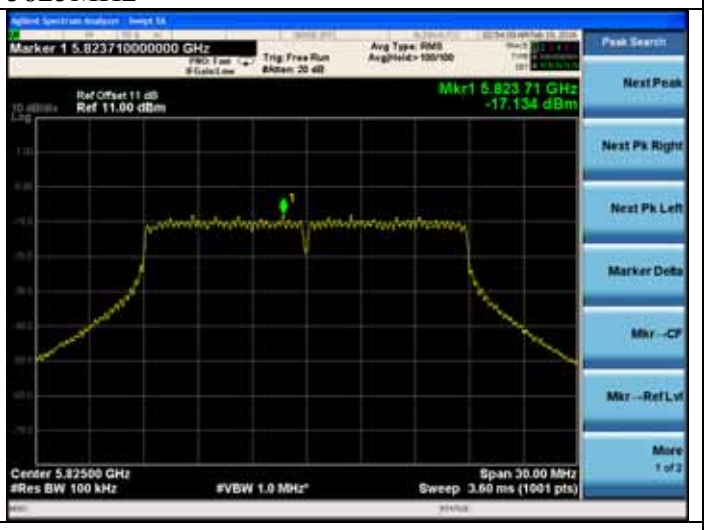
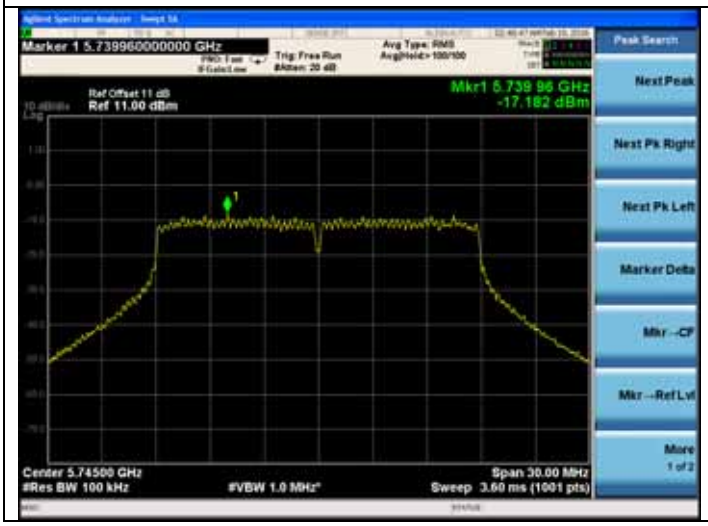
Directional Gain=$G_{ANT}$ + 10log2(dBi)
=20dBi+3dBi
=23dBi＞6dBi
Output Power Limit=30dBm-(23dBi-6dBi)
=13dBm

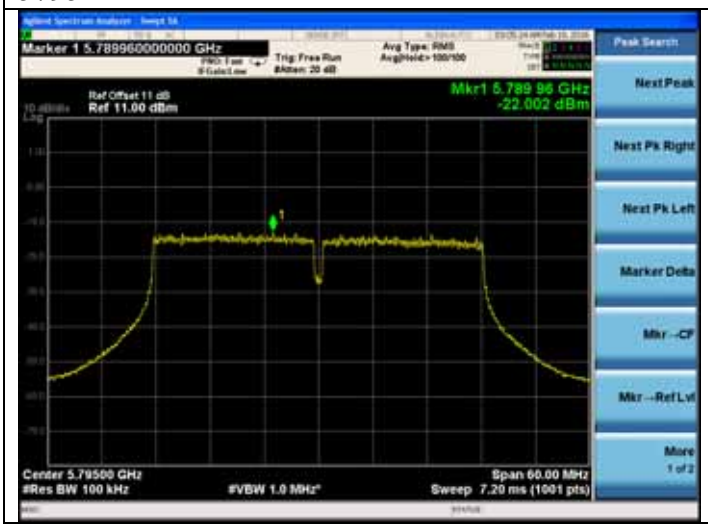
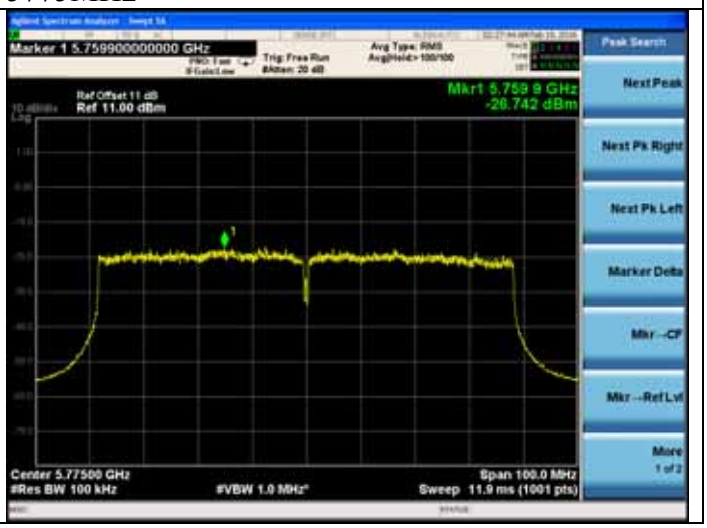
| ANT 1 | |
|---|---|
| **11a** | **11n HT20** |
| 5745MHz | 5745MHz |
|  |  |
| 5785MHz | 5785MHz |
|  |  |
| 5825MHz | 5825MHz |
|  |  |

| **11n HT40** | |
|---|---|
| 5755MHz | 5785MHz |
|  |  |
| 5795MHz | 5825MHz |
|  |  |
| **11ac VHT20** | **11ac VHT40** |
| 5745MHz | 5755MHz |
|  |  |

| | |
|---|---|
| | **11ac VHT80** |
| 5795MHz | 5775MHz |
|  |  |

| ANT 2 | |
|---|---|
| **11a** | **11n HT20** |
| 5745MHz | 5745MHz |
|  |  |
| 5785MHz | 5785MHz |
|  |  |
| 5825MHz | 5825MHz |
|  |  |

| **11n HT40** | |
|---|---|
| 5755MHz | 5785MHz |
|  |  |
| 5795MHz | 5825MHz |
|  |  |
| **11ac VHT20** | **11ac VHT40** |
| 5745MHz | 5755MHz |
|  |  |

| | 11ac VHT80 |
|---|---|
| 5795MHz | 5775MHz |
|  |  |

# 9. FREQUENCY STABILITY MEASUREMENT

## 9.1.Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|---|---|---|---|---|---|---|
| 1. | PXA Signal Analyzer | Agilent | N9030A | MY51380221 | Oct.18,15 | 1 Year |
| 2. | Amplifier | Agilent | 8449B | 3008A02495 | Apr.28,15 | 1 Year |
| 3. | Horn Antenna | ETS | 3115 | 9510-4877 | Oct.15,15 | 1 Year |
| 4. | HF Cable | Hubersuhner | Sucoflex104 | 274094/4 | Apr.28,15 | 1 Year |

## 9.2.Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emissions is maintained within the band of operation under all conditions of normal operation as specified in the user's manual or ±20ppm

## 9.3.Test Procedure

1. The transmitter output (antenna port) was connected to the spectrum analyzer. EUT have transmitted absence of modulation signal and fixed channelise. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings. fc is declaring of channel frequency. Then the frequency error formula is (fc-f)/fc × 106 ppm and the limit is less than ±20ppm The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
2. Extreme temperature rule is -30°C~50°C.

## 9.4.Test Result

| | | |
|---|---|---|
| EUT: Altai A8n (ac) Super WiFi Base Station | | |
| M/N: WA8011NAC-X | | |
| Test date: 2016-02-26 | Pressure:101.8±1.0 kpa | Humidity:50.8±3.0% |
| Tested by: Donjon_Huang | Test site: RF site | Temperature:20.9±0.6 ℃ |

Frequency Stability vs Voltage:

| Test Voltage (V) | Temp (℃) | CH | Max. Reading (MHz) | Target Frequency (MHz) | Result (ppm) | Limit (ppm) |
|---|---|---|---|---|---|---|
| AC 108V | 25℃ | CH149 | 5745.033 | 5745 | 5.74 | ±20 |
| | | CH151 | 5755.029 | 5755 | 5.04 | ±20 |
| | | CH155 | 5775.038 | 5775 | 6.58 | ±20 |
| | | CH157 | 5785.029 | 5785 | 5.01 | ±20 |
| | | CH159 | 5795.025 | 5795 | 4.31 | ±20 |
| | | CH165 | 5825.034 | 5825 | 5.84 | ±20 |
| Conclusion: PASS | | | | | | |

| Test Voltage (V) | Temp (℃) | CH | Max. Reading (MHz) | Target Frequency (MHz) | Result (ppm) | Limit (ppm) |
|---|---|---|---|---|---|---|
| AC 120V | 25℃ | CH149 | 5745.036 | 5745 | 6.27 | ±20 |
| | | CH151 | 5755.031 | 5755 | 5.39 | ±20 |
| | | CH155 | 5775.029 | 5775 | 5.02 | ±20 |
| | | CH157 | 5785.034 | 5785 | 5.88 | ±20 |
| | | CH159 | 5795.036 | 5795 | 6.21 | ±20 |
| | | CH165 | 5825.029 | 5825 | 4.98 | ±20 |
| Conclusion: PASS | | | | | | |

| Test Voltage (V) | Temp (℃) | CH | Max. Reading (MHz) | Target Frequency (MHz) | Result (ppm) | Limit (ppm) |
|---|---|---|---|---|---|---|
| AC 132V | 25℃ | CH149 | 5745.029 | 5745 | 5.05 | ±20 |
| | | CH151 | 5755.030 | 5755 | 5.21 | ±20 |
| | | CH155 | 5775.029 | 5775 | 5.02 | ±20 |
| | | CH157 | 5785.034 | 5785 | 5.89 | ±20 |
| | | CH159 | 5795.028 | 5795 | 4.83 | ±20 |
| | | CH165 | 5825.026 | 5825 | 4.46 | ±20 |
| Conclusion: PASS | | | | | | |

Frequency Stability vs. Temperature:

| Test Voltage (V) | Temp (℃) | CH | Max. Reading (MHz) | Target Frequency (MHz) | Result (ppm) | Limit (ppm) |
|---|---|---|---|---|---|---|
| AC 120V | -45℃ | CH149 | 5745.022 | 5745 | 3.83 | ±20 |
| | | CH151 | 5755.046 | 5755 | 7.99 | ±20 |
| | | CH155 | 5775.038 | 5775 | 6.58 | ±20 |
| | | CH157 | 5785.026 | 5785 | 4.49 | ±20 |
| | | CH159 | 5795.041 | 5795 | 7.08 | ±20 |
| | | CH165 | 5825.029 | 5825 | 4.98 | ±20 |
| Conclusion: PASS | | | | | | |

| Test Voltage (V) | Temp (℃) | CH | Max. Reading (MHz) | Target Frequency (MHz) | Result (ppm) | Limit (ppm) |
|---|---|---|---|---|---|---|
| AC 120V | -35℃ | CH149 | 5745.028 | 5745 | 4.87 | ±20 |
| | | CH151 | 5755.039 | 5755 | 6.78 | ±20 |
| | | CH155 | 5775.027 | 5775 | 4.68 | ±20 |
| | | CH157 | 5785.035 | 5785 | 6.05 | ±20 |
| | | CH159 | 5795.042 | 5795 | 7.25 | ±20 |
| | | CH165 | 5825.031 | 5825 | 5.32 | ±20 |
| Conclusion: PASS | | | | | | |

| Test Voltage (V) | Temp (℃) | CH | Max. Reading (MHz) | Target Frequency (MHz) | Result (ppm) | Limit (ppm) |
|---|---|---|---|---|---|---|
| AC 120V | -25℃ | CH149 | 5745.031 | 5745 | 5.40 | ±20 |
| | | CH151 | 5755.029 | 5755 | 5.04 | ±20 |
| | | CH155 | 5775.036 | 5775 | 6.23 | ±20 |
| | | CH157 | 5785.042 | 5785 | 7.26 | ±20 |
| | | CH159 | 5795.038 | 5795 | 6.56 | ±20 |
| | | CH165 | 5825.052 | 5825 | 8.93 | ±20 |
| Conclusion: PASS | | | | | | |

| Test Voltage (V) | Temp (℃) | CH | Max. Reading (MHz) | Target Frequency (MHz) | Result (ppm) | Limit (ppm) |
|---|---|---|---|---|---|---|
| AC 120V | -15℃ | CH149 | 5745.026 | 5745 | 4.53 | ±20 |
| | | CH151 | 5755.033 | 5755 | 5.73 | ±20 |
| | | CH155 | 5775.047 | 5775 | 8.14 | ±20 |
| | | CH157 | 5785.035 | 5785 | 6.05 | ±20 |
| | | CH159 | 5795.034 | 5795 | 5.87 | ±20 |
| | | CH165 | 5825.021 | 5825 | 3.61 | ±20 |
| Conclusion: PASS | | | | | | |

| Test Voltage (V) | Temp (℃) | CH | Max. Reading (MHz) | Target Frequency (MHz) | Result (ppm) | Limit (ppm) |
|---|---|---|---|---|---|---|
| AC 120V | -5℃ | CH149 | 5745.034 | 5745 | 5.92 | ±20 |
| | | CH151 | 5755.027 | 5755 | 4.69 | ±20 |
| | | CH155 | 5775.029 | 5775 | 5.02 | ±20 |
| | | CH157 | 5785.031 | 5785 | 5.36 | ±20 |
| | | CH159 | 5795.037 | 5795 | 6.38 | ±20 |
| | | CH165 | 5825.029 | 5825 | 4.98 | ±20 |
| Conclusion: PASS | | | | | | |

| Test Voltage (V) | Temp (℃) | CH | Max. Reading (MHz) | Target Frequency (MHz) | Result (ppm) | Limit (ppm) |
|---|---|---|---|---|---|---|
| AC 120V | 5℃ | CH149 | 5745.037 | 5745 | 6.44 | ±20 |
| | | CH151 | 5755.041 | 5755 | 7.12 | ±20 |
| | | CH155 | 5775.028 | 5775 | 4.85 | ±20 |
| | | CH157 | 5785.026 | 5785 | 4.49 | ±20 |
| | | CH159 | 5795.051 | 5795 | 8.80 | ±20 |
| | | CH165 | 5825.039 | 5825 | 6.70 | ±20 |
| Conclusion: PASS | | | | | | |

| Test Voltage (V) | Temp (℃) | CH | Max. Reading (MHz) | Target Frequency (MHz) | Result (ppm) | Limit (ppm) |
|---|---|---|---|---|---|---|
| AC 120V | 15℃ | CH149 | 5745.029 | 5745 | 5.05 | ±20 |
| | | CH151 | 5755.035 | 5755 | 6.08 | ±20 |
| | | CH155 | 5775.028 | 5775 | 4.85 | ±20 |
| | | CH157 | 5785.034 | 5785 | 5.88 | ±20 |
| | | CH159 | 5795.026 | 5795 | 4.49 | ±20 |
| | | CH165 | 5825.027 | 5825 | 4.64 | ±20 |
| Conclusion: PASS | | | | | | |

| Test Voltage (V) | Temp (℃) | CH | Max. Reading (MHz) | Target Frequency (MHz) | Result (ppm) | Limit (ppm) |
|---|---|---|---|---|---|---|
| AC 120V | 25℃ | CH149 | 5745.034 | 5745 | 5.92 | ±20 |
| | | CH151 | 5755.029 | 5755 | 5.04 | ±20 |
| | | CH155 | 5775.036 | 5775 | 6.23 | ±20 |
| | | CH157 | 5785.042 | 5785 | 7.26 | ±20 |
| | | CH159 | 5795.039 | 5795 | 6.73 | ±20 |
| | | CH165 | 5825.043 | 5825 | 7.38 | ±20 |
| Conclusion: PASS | | | | | | |

| Test Voltage (V) | Temp (℃) | CH | Max. Reading (MHz) | Target Frequency (MHz) | Result (ppm) | Limit (ppm) |
|---|---|---|---|---|---|---|
| AC 120V | 35℃ | CH149 | 5745.030 | 5745 | 5.22 | ±20 |
| | | CH151 | 5755.031 | 5755 | 5.39 | ±20 |
| | | CH155 | 5775.041 | 5775 | 7.10 | ±20 |
| | | CH157 | 5785.039 | 5785 | 6.74 | ±20 |
| | | CH159 | 5795.028 | 5795 | 4.83 | ±20 |
| | | CH165 | 5825.031 | 5825 | 5.32 | ±20 |
| Conclusion: PASS | | | | | | |

| Test Voltage (V) | Temp (℃) | CH | Max. Reading (MHz) | Target Frequency (MHz) | Result (ppm) | Limit (ppm) |
|---|---|---|---|---|---|---|
| AC 120V | 45℃ | CH149 | 5745.029 | 5745 | 5.05 | ±20 |
| | | CH151 | 5755.031 | 5755 | 5.39 | ±20 |
| | | CH155 | 5775.029 | 5775 | 5.02 | ±20 |
| | | CH157 | 5785.027 | 5785 | 4.67 | ±20 |
| | | CH159 | 5795.034 | 5795 | 5.87 | ±20 |
| | | CH165 | 5825.038 | 5825 | 6.52 | ±20 |
| Conclusion: PASS | | | | | | |

| Test Voltage (V) | Temp (℃) | CH | Max. Reading (MHz) | Target Frequency (MHz) | Result (ppm) | Limit (ppm) |
|---|---|---|---|---|---|---|
| AC 120V | 55℃ | CH149 | 5745.031 | 5745 | 5.39 | ±20 |
| | | CH151 | 5755.036 | 5755 | 6.26 | ±20 |
| | | CH155 | 5775.029 | 5775 | 5.02 | ±20 |
| | | CH157 | 5785.031 | 5785 | 5.36 | ±20 |
| | | CH159 | 5795.042 | 5795 | 7.25 | ±20 |
| | | CH165 | 5825.029 | 5825 | 4.98 | ±20 |
| Conclusion: PASS | | | | | | |

| Test Voltage (V) | Temp (℃) | CH | Max. Reading (MHz) | Target Frequency (MHz) | Result (ppm) | Limit (ppm) |
|---|---|---|---|---|---|---|
| AC 120V | 65℃ | CH149 | 5745.028 | 5745 | 4.87 | ±20 |
| | | CH151 | 5755.036 | 5755 | 6.26 | ±20 |
| | | CH155 | 5775.029 | 5775 | 5.02 | ±20 |
| | | CH157 | 5785.038 | 5785 | 6.57 | ±20 |
| | | CH159 | 5795.036 | 5795 | 6.21 | ±20 |
| | | CH165 | 5825.039 | 5825 | 6.70 | ±20 |
| Conclusion: PASS | | | | | | |

# 10. MPE ESTIMATION

## 10.1. Limit for General Population/ Uncontrolled Exposures

| Frequency | **Power density (mW/ $cm^2$ )** | **Averaging time(minutes)** |
|---|---|---|
| 300MHz----1.5GHz | F/1500 | 30 |
| 1.5GHz---100GHz | 1.0 | 30 |

Note: F= Frequency in MHz

## 10.2. Estimation Result

| EUT: Altai A8n (ac) Super WiFi Base Station | | |
|---|---|---|
| M/N: WA8011NAC-X | | |
| Test date: 2016-02-25 | Pressure: 101.3±1.0 kpa | Humidity: 50.2±3.0% |
| Tested by: Donjon_Huang | Test site: RF site | Temperature:20.4±0.6 ℃ |

| Test Mode | Frequency (MHz) | Peak Output Power (dBm) | Output Power (mW) | Antenna Gain (dBi) | Antenna Gain (Linear) | MPE |
|---|---|---|---|---|---|---|
| 11a | 5745 | 14.63 | 29.04 | 20 | 100.00 | 0.5780 |
| | 5785 | 15.22 | 33.27 | 20 | 100.00 | 0.6621 |
| | 5825 | 15.35 | 34.28 | 20 | 100.00 | 0.6823 |
| 11n HT20 | 5745 | 14.25 | 26.61 | 20 | 100.00 | 0.5296 |
| | 5785 | 14.55 | 28.51 | 20 | 100.00 | 0.5675 |
| | 5825 | 14.45 | 27.86 | 20 | 100.00 | 0.5546 |
| 11n HT40 | 5755 | 15.38 | 34.51 | 20 | 100.00 | 0.6870 |
| | 5795 | 15.23 | 33.34 | 20 | 100.00 | 0.6637 |
| 11ac VHT20 | 5745 | 14.67 | 29.31 | 20 | 100.00 | 0.5834 |
| | 5785 | 14.86 | 30.62 | 20 | 100.00 | 0.6095 |
| | 5825 | 15.01 | 31.70 | 20 | 100.00 | 0.6309 |
| 11ac VHT40 | 5755 | 14.87 | 30.69 | 20 | 100.00 | 0.6109 |
| | 5795 | 14.96 | 31.33 | 20 | 100.00 | 0.6237 |
| 11ac VHT80 | 5775 | 15.02 | 31.77 | 20 | 100.00 | 0.6323 |

$$MPE=\frac{PG}{4\pi R^2} \quad (R=20\ cm)$$

# 11. ANTENNA REQUIREMENT

## 11.1. Standard Applicable

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.407 (a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

## 11.2. Antenna Connected Construction

The antennas used for this product are Omni Antenna that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 20 dBi.

# 12. DEVIATION TO TEST SPECIFICATIONS

[ NONE]