



FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

Altai Technologies Limited

Altai A3c Indoor Dual-band 3X3 802.11ac WiFi AP

Model Number: WA3311NAC-C

FCC ID: UCC-WA3311NAC-C

Prepared for : Altai Technologies Limited
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Date of Report : Mar.22, 2016

TABLE OF CONTENTS

Description	Page
1. SUMMARY OF STANDARDS AND RESULTS	1-1
1.1. Description of Standards and Results	1-1
2. GENERAL INFORMATION	2-1
2.1. Description of Device (EUT)	2-1
2.2. Test Information	2-2
2.3. Tested Supporting System Details	2-2
2.4. Block diagram of connection between the EUT and simulators	2-2
2.5. Test Facility	2-3
2.6. Measurement Uncertainty (95% confidence levels, k=2).....	2-3
3. POWER LINE CONDUCTED EMISSION TEST.....	3-1
3.1. Test Equipments	3-1
3.2. Block Diagram of Test Setup	3-1
3.3. Power Line Conducted Emission Test Limits	3-1
3.4. Configuration of EUT on Test.....	3-1
3.5. Operating Condition of EUT	3-2
3.6. Test Procedure	3-2
3.7. Power Line Conducted Emission Test Results	3-2
4. RADIATED EMISSION TEST	4-1
4.1. Test Equipment.....	4-1
4.2. Block Diagram of Test Setup	4-2
4.3. Radiated Emission Limit	4-3
4.4. EUT Configuration on Test	4-3
4.5. Operating Condition of EUT	4-4
4.6. Test Procedure	4-4
4.7. Radiated Emission Test Results	4-4
5. CONDUCTED SPURIOUS EMISSIONS	5-1
5.1. Test Equipment.....	5-1
5.2. Limit	5-1
5.3. Test Procedure	5-1
5.4. Test result	5-1
6. BAND EDGE COMPLIANCE TEST	6-1
6.1. Test Equipment.....	6-1
6.2. Limit	6-1
6.3. Test Produce	6-1
6.4. Test Results	6-1
7. 6dB Bandwidth Test	7-1
7.1. Test Equipment.....	7-1
7.2. Limit	7-1
7.3. Test Procedure	7-1
7.4. Test Results	7-1
8. OUTPUT POWER TEST	8-1
8.1. Test Equipment.....	8-1
8.2. Limit (FCC Part 15C 15.247 b(3))	8-1
8.3. Test Procedure	8-1
8.4. Test Results	8-2
9. POWER SPECTRAL DENSITY TEST	9-1
9.1. Test Equipment.....	9-1

9.2.	Limit	9-1
9.3.	Test Procedure	9-1
9.4.	Test Results	9-2
10.	MPE ESTIMATION	10-1
10.1.	Limit for General Population/ Uncontrolled Exposures	10-1
10.2.	Estimation Result.....	10-2
11.	ANTENNA REQUIREMENT	11-1
11.1.	Standard Applicable	11-1
11.2.	Antenna Connected Construction.....	11-1
12.	DEVIATION TO TEST SPECIFICATIONS	12-1
13.	PHOTOGRAPH OF TEST.....	13-1
13.1.	Photos of Power Line Conducted Emission Test	13-1
13.2.	Photos of Radiated Emission Test.....	13-2
14.	PHOTOGRAPHS OF EUT	14-1

TEST REPORT CERTIFICATION

Applicant : Altai Technologies Limited
 Manufacturer : Altai Technologies Limited
 EUT Description : Altai A3c Indoor Dual-band 3X3 802.11ac WiFi AP
 FCC ID : UCC-WA3311NAC-C
 (A) Model No. : WA3311NAC-C
 (B) Power Supply : DC 56V
 (C) Test Voltage : DC 56V From POE Input AC 120V/60Hz

Tested for comply with:
 FCC CFR 47 Part 15 Subpart C: 2014

Test procedure used:
 ANSI C63.10: 2013

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC Part 15 Subpart C 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 : Jan.04~Mar.14, 2016 Report of date: Mar.22, 2016

Prepared by : Cindy Zhu / Assistant Reviewed by : Sunny Lu / Assistant Manager

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: 15.247	PASS
Conducted spurious emissions	FCC Part 15: 15.247	PASS
6dB Bandwidth	FCC Part 15: 15.247	PASS
Peak Output Power	FCC Part 15: 15.247	PASS
Power Spectral Density	FCC Part 15: 15.247	PASS
MPE Estimation	FCC Part 15: 15.247	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 A3c Indoor Dual-band 3X3 802.11ac WiFi AP
Model Number	: WA3311NAC-C
FCC ID	: UCC-WA3311NAC-C
Radio	: IEEE802.11 a/b/g/n/ac
Operation Frequency	: IEEE 802.11a: 5745MHz—5825MHz IEEE 802.11b: 2412MHz—2462MHz IEEE 802.11g: 2412MHz—2462MHz IEEE 802.11n HT20: 2412MHz—2462MHz; 5745MHz—5825MHz IEEE 802.11n HT40: 2422MHz—2452MHz; 5755MHz—5795MHz IEEE 802.11ac VHT20: 5745MHz—5825MHz IEEE 802.11ac VHT40: 5755MHz—5795MHz IEEE 802.11ac VHT80: 5775MHz
Modulation Technology	: IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11a/g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac VHT20, VHT40, VHT80: OFDM(16QAM, 64QAM, 256QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM,QPSK,BPSK)
Antenna Assembly Gain	: Built-in Omni Antenna, 2.4GHz: 4dBi gain, 5GHz: 6dBi gain
Applicant	: Altai Technologies Limited Units 209, 2/F, Lakeside 2.10 Science Park West Avenue, Hong Kong Science Park, Shatin, Hong Kong, China
Manufacturer	: Altai Technologies Limited Units 209, 2/F, Lakeside 2.10 Science Park West Avenue, Hong Kong Science Park, Shatin, Hong Kong, China
AC Adapter	: Manufacturer: FSGREAT;M/N: GRT-560110A INPUT:AC 100-240V 50/60Hz OUTPUT:56V 1100mA
Date of Test	: Jan.04~Mar.14, 2016
Date of Receipt	: Jan.02, 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 (Mbps)(see Note)	Channel	Frequency (MHz)
IEEE 802.11b	1	Low :CH1	2412
	1	Middle: CH6	2437
	1	High: CH11	2462
IEEE 802.11g	6	Low :CH1	2412
	6	Middle: CH6	2437
	6	High: CH11	2462
IEEE 802.11n HT20	MCS0	Low :CH1	2412
	MCS0	Middle: CH6	2437
	MCS0	High: CH11	2462
IEEE 802.11n HT40	MCS0	Low :CH3	2422
	MCS0	Middle: CH6	2437
	MCS0	High: CH9	2452

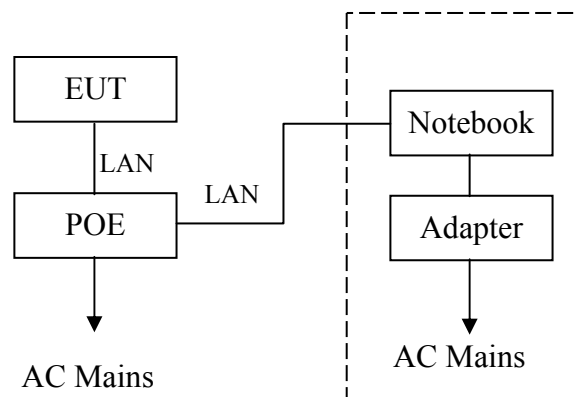
Note: 1. According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

Note: 2. This is 3T3R device use MIMO Technologies, test with two antenna transmit simultaneously, and comply with KDB662911D01 V02r01.

2.3. 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 Power Adapter: Manufacturer: DELL, M/N: LA65NS1-00 Cable: Unshielded, Detachable, 4.0m(Bond one ferrite core)			

2.4. Block diagram of connection between the EUT and simulators



(EUT: Altai A3c Indoor Dual-band 3X3 802.11ac WiFi AP)

2.5. Test Facility

Site Description

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

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

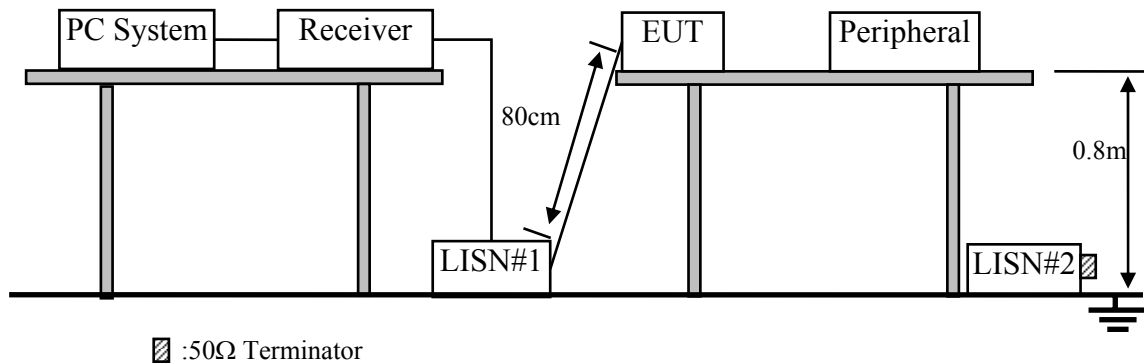
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.4dB (150kHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	2.6 dB(30~200MHz, Polarization: H)
	2.6 dB(30~200MHz, Polarization: V)
	3.0 dB(200M~1GHz, Polarization: H)
	2.8 dB(200M~1GHz, Polarization: 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



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 A3c Indoor Dual-band 3X3 802.11ac WiFi AP (EUT)

Model Number : WA3311NAC-C

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. Turn on the power of all equipments.
- 3.5.3. PC run test software to control EUT work in Tx(WiFi 2.4GHz) mode.

3.6. Test Procedure

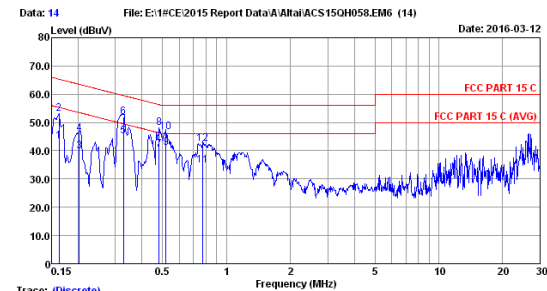
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via PC connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). 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

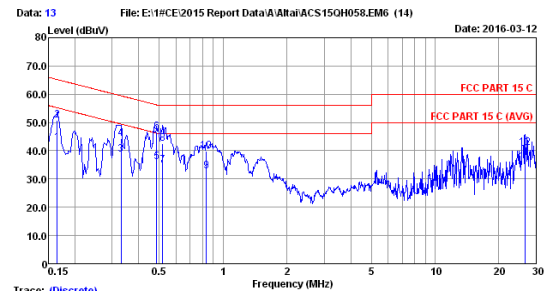
PASS. (All emissions not reported below are too low against the prescribed limits.)



Trace: (Discrete)
 Site no :1# Conduction Data No :14
 Dis./Lism :2015 ESHZ-ZS LINE
 Limit :FCC PART 15 C
 Env./Ins. :23.2°C/50% Engineer :Leo-Li
 EUT :Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power Rating :DC 56V From POE Input AC 120V/60Hz
 Test Mode :TX Mode
 M/N:WA3311NAC-C

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.162	0.12	0.05	43.30	43.47	55.34	11.87	Average
2	0.162	0.12	0.05	52.66	53.03	65.34	12.31	QP
3	0.203	0.12	0.05	39.70	39.87	53.49	13.62	Average
4	0.203	0.12	0.05	45.88	46.05	63.49	17.44	QP
5	0.327	0.13	0.06	44.90	45.09	49.53	4.44	Average
6	0.327	0.13	0.06	51.67	51.86	59.53	7.67	QP
7	0.481	0.24	0.06	40.20	40.50	46.32	5.82	Average
8	0.481	0.24	0.06	47.74	48.04	56.32	8.28	QP
9	0.518	0.14	0.06	40.70	40.90	46.00	5.10	Average
10	0.518	0.14	0.06	46.35	46.55	56.00	9.45	QP
11	0.775	0.15	0.07	34.50	34.72	46.00	11.28	Average
12	0.775	0.15	0.07	42.27	42.49	56.00	13.51	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 :13
 Dis./Lism :2015 ESHZ-ZS NEUTRAL
 Limit :FCC PART 15 C
 Env./Ins. :23.2°C/50% Engineer :Leo-Li
 EUT :Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power Rating :DC 56V From POE Input AC 120V/60Hz
 Test Mode :TX Mode
 M/N:WA3311NAC-C

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.165	0.12	0.05	42.69	42.86	55.21	12.35	Average
2	0.165	0.12	0.05	50.60	50.77	65.21	14.44	QP
3	0.330	0.13	0.06	38.60	38.79	49.44	10.65	Average
4	0.330	0.13	0.06	44.20	44.39	59.44	15.05	QP
5	0.486	0.14	0.06	35.70	35.90	46.23	10.33	Average
6	0.486	0.14	0.06	46.52	46.72	56.23	9.51	QP
7	0.518	0.14	0.06	34.60	34.80	46.00	11.20	Average
8	0.518	0.14	0.06	42.30	42.50	56.00	13.50	QP
9	0.835	0.15	0.07	32.50	32.72	46.00	13.28	Average
10	0.835	0.15	0.07	39.55	39.77	56.00	16.23	QP
11	26.558	1.13	0.37	34.50	36.00	50.00	14.00	Average
12	26.558	1.13	0.37	39.60	41.10	60.00	18.90	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 30MHz~1000MHz (In 3m Anechoic Chamber)

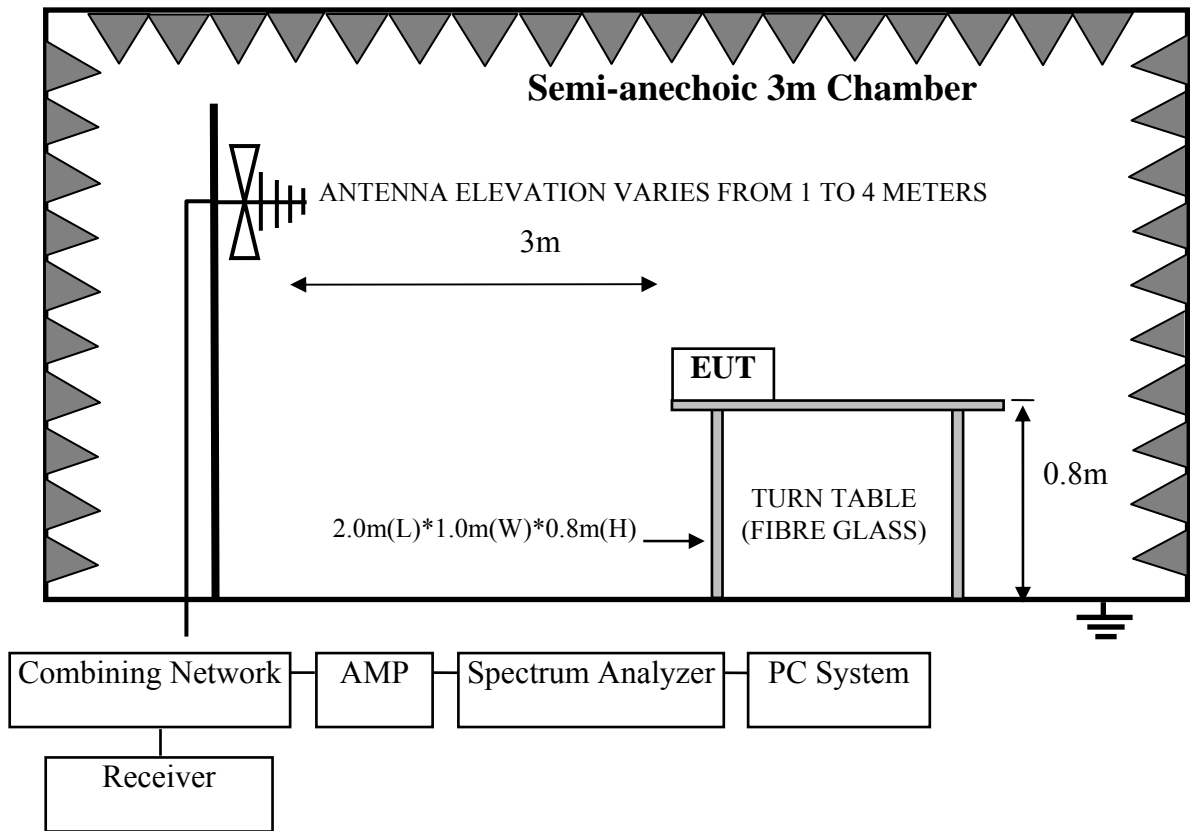
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Mar.28,15	1 Year
2.	EMI Spectrum	Agilent	E4407B	MY41440292	Apr.28,15	1 Year
3.	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	Apr.28,15	1 Year
4.	Amplifier	HP	8447D	2648A04738	Apr.28,15	1 Year
5.	Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-493	May.06,15	1 Year
6.	RF Cable	MIYAZAKI	CFD400-N W(3.5M)	No.3	Apr.28,15	1 Year
7.	RF Cable	MIYAZAKI	CFD400-L W(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)

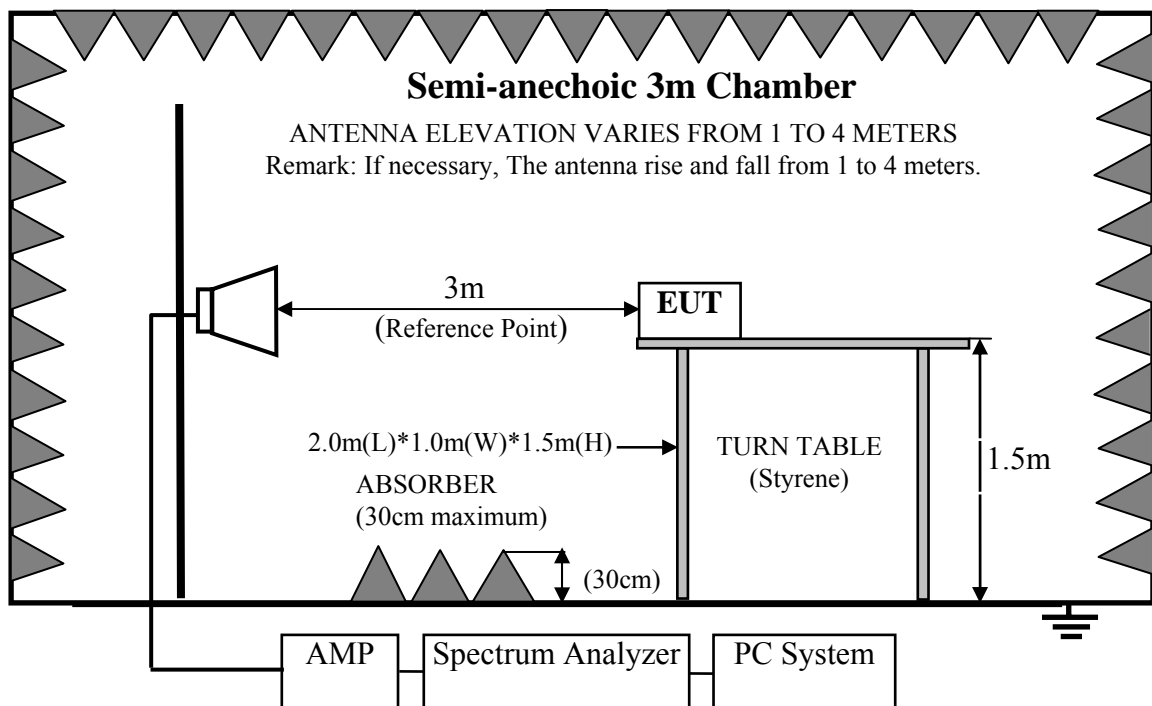
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	Apr.28,15	1 Year
2.	Horn Antenna	ETC	MCTD 1209	DRH15F03007	Feb.03,15	1 Year
3.	Amplifier	Agilent	8449B	3008A02495	Apr.28,15	1 Year
4.	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	Apr.28,15	1 Year
5.	Horn Antenna	ETS	3116	00060088	Nov.18.15	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-25GHz



4.3. Radiated Emission Limit

4.3.1. 15.247&209 limits

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
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 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

Remark : (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V}/\text{m}$

(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)

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions or comply with 15.209 limits.

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 A3c Indoor Dual-band 3X3 802.11ac WiFi AP (EUT)

Model Number : WA3311NAC-C

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 (WiFi 2.4GHz) 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 Horn antenna is used as receiving antenna for frequency above 1GHz. Both horizontal and vertical polarization of the antenna are set on test.

This test was performed with EUT in X, Y, Z position, and the worse case was found when EUT in X position as test photo indicated.

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 3MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

The frequency range from 30MHz to 10th harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25GHz, So the radiated emissions from 18GHz to 25GHz were not record.

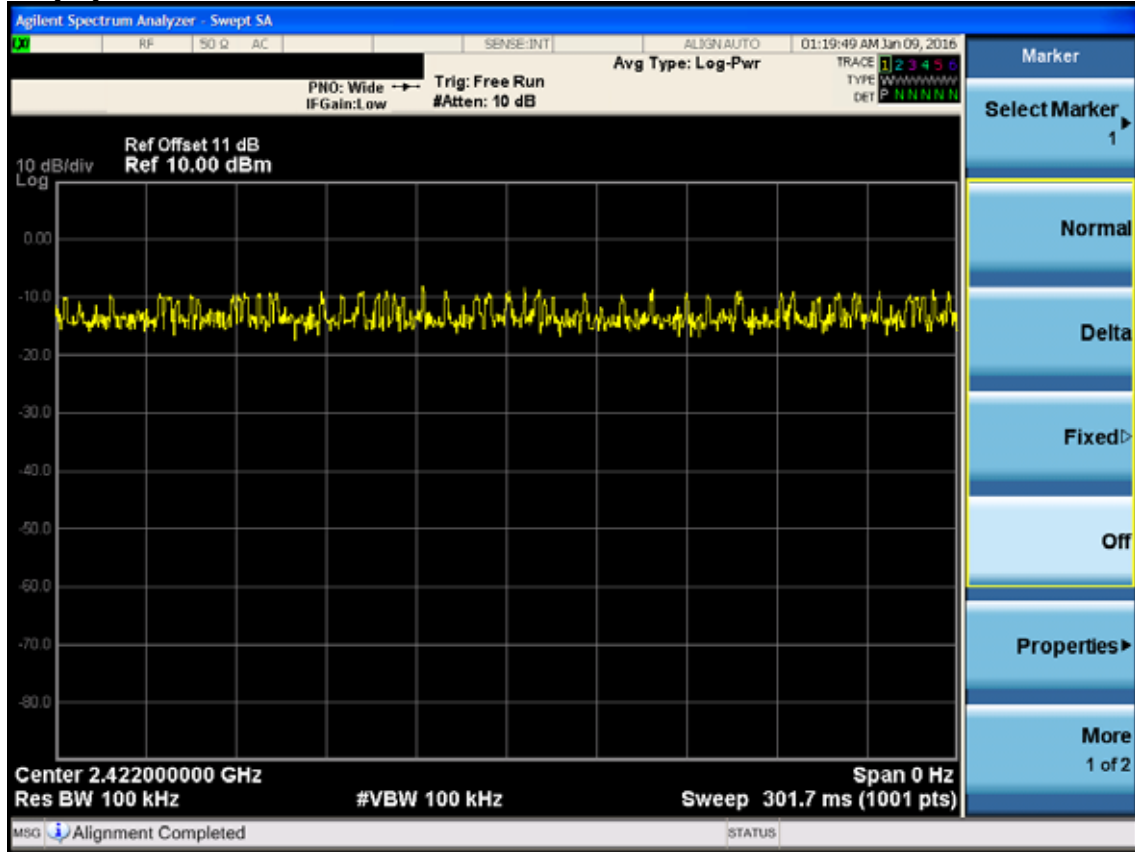
4.7. Radiated Emission Test Results

PASS.

All the emissions from 30MHz to 25 GHz were comply with 15.209 limits.

Note: For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

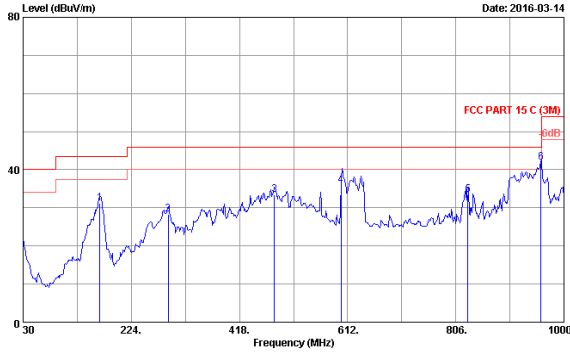
Duty cycle



Note: The Duty Cycle is close to 100%.

Frequency: 30MHz~1GHz

Data: 18 File: E:\2015 Report Data\A\ALTAIACS15QH058.EM6 (18) Date: 2016-03-14

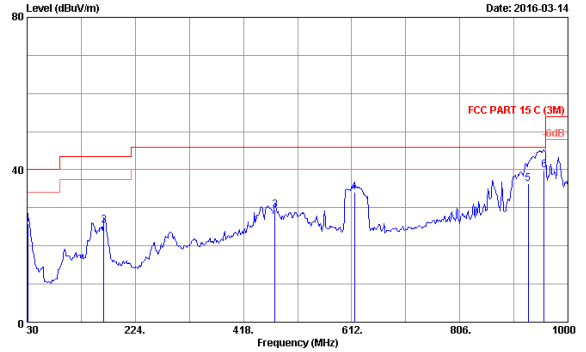


Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 2015 CBL6112D 35375 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 23.9°C/57% Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : Tx Mode
 M/N: WA3311NAC-C

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	167.740	10.74	1.38	19.11	31.23	43.50	12.27	QP
2	289.960	14.05	1.84	12.48	28.37	46.00	17.63	QP
3	481.050	18.11	2.47	12.81	33.39	46.00	12.61	QP
4	600.586	19.30	2.77	13.70	35.77	46.00	10.23	QP
5	827.340	21.34	3.32	8.82	33.48	46.00	12.52	QP
6	959.746	22.29	3.62	15.91	41.82	46.00	4.18	QP

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

Data: 17 File: E:\2015 Report Data\A\ALTAIACS15QH058.EM6 (18) Date: 2016-03-14

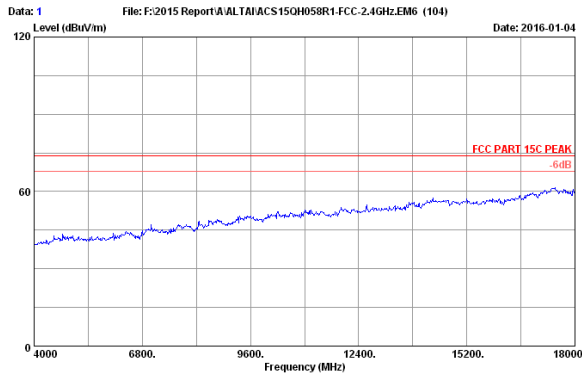


Site no. : 3m Chamber Data no. : 17
 Dis. / Ant. : 3m 2015 CBL6112D 35375 Ant. pol. : VERTICAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 23.9°C/57% Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : Tx Mode
 M/N: WA3311NAC-C

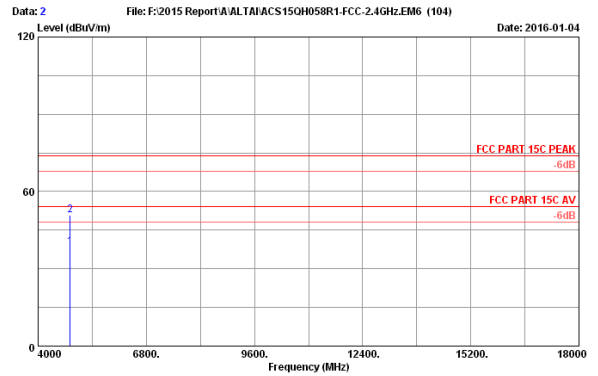
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.940	19.06	0.61	6.11	25.78	40.00	14.22	QP
2	167.740	10.74	1.38	13.26	25.38	43.50	18.12	QP
3	474.260	18.01	2.44	8.86	29.31	46.00	16.69	QP
4	616.850	19.43	2.81	11.81	34.05	46.00	11.95	QP
5	928.475	22.14	3.56	10.60	36.30	46.00	9.70	QP
6	957.483	22.29	3.62	13.90	39.81	46.00	6.19	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



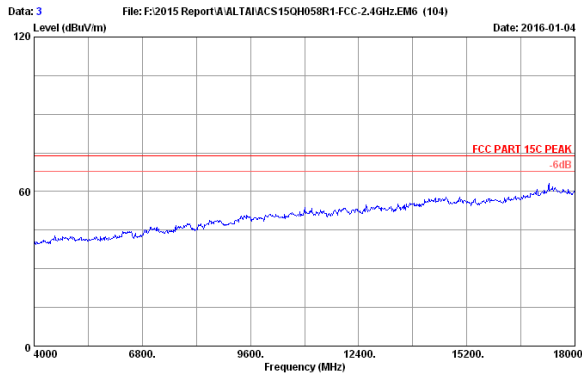
Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11b 2412MHz Tx
 WA3311NAC-C



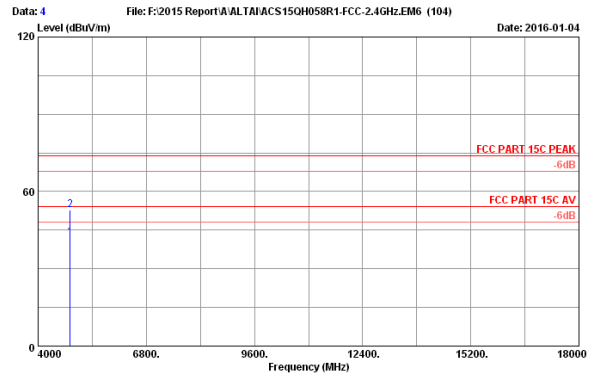
Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11b 2412MHz Tx
 WA3311NAC-C

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	4824.000	33.72	9.46	35.53	30.79	38.44	54.00	15.56	Average
2	4824.000	33.72	9.46	35.53	43.28	50.93	74.00	23.07	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.



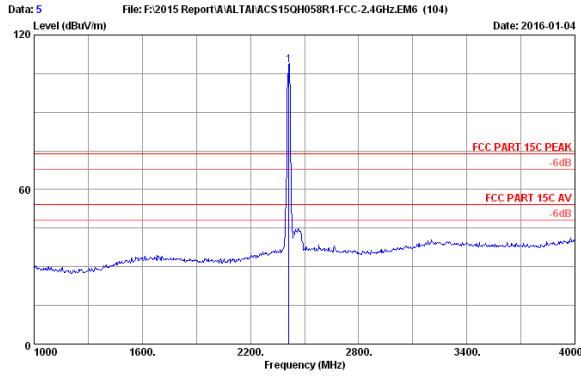
Site no. : 3m Chamber Data no. : 3
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11b 2412MHz Tx
 WA3311NAC-C



Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11b 2412MHz Tx
 WA3311NAC-C

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	4824.000	33.72	9.46	35.53	34.52	42.17	54.00	11.83	Average
2	4824.000	33.72	9.46	35.53	45.21	52.86	74.00	21.14	Peak

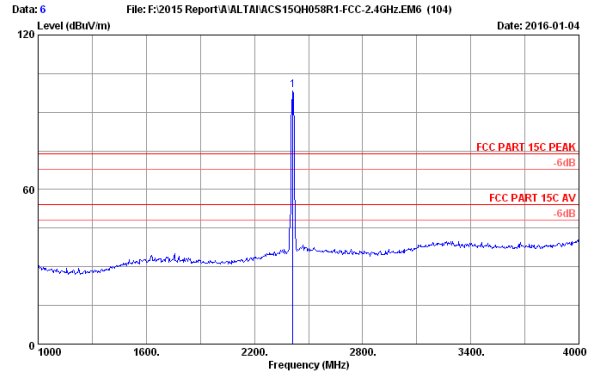
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 5
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11b 2412MHz Tx
 WA3311NAC-C

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	2412.000	28.02	7.35	36.62	109.46	108.21	74.00	-34.21	Peak

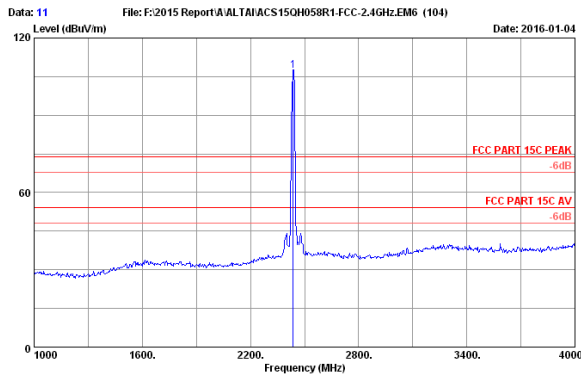
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11b 2412MHz Tx
 WA3311NAC-C

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	2412.000	28.02	7.35	36.62	99.84	98.59	74.00	-24.59	Peak

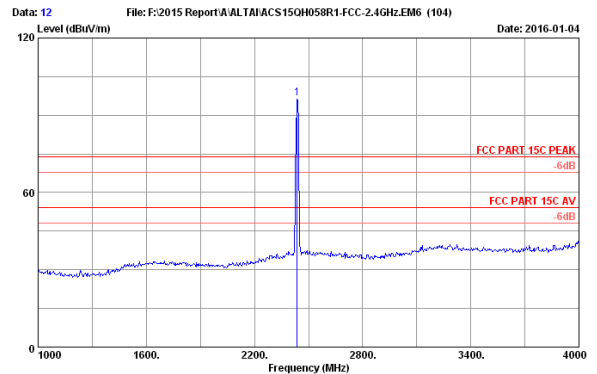
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 11
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11b 2437MHz Tx
 WA3311NAC-C

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	2437.000	28.07	7.39	36.61	108.33	107.18	74.00	-33.18	Peak

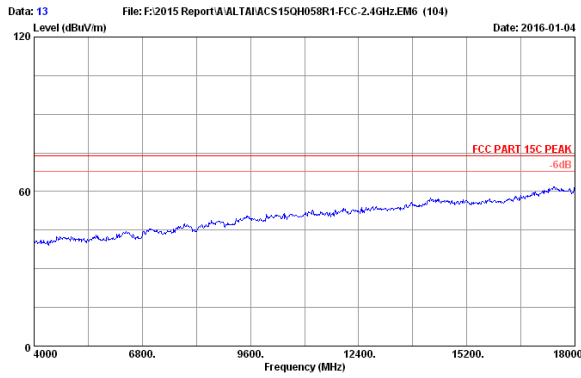
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



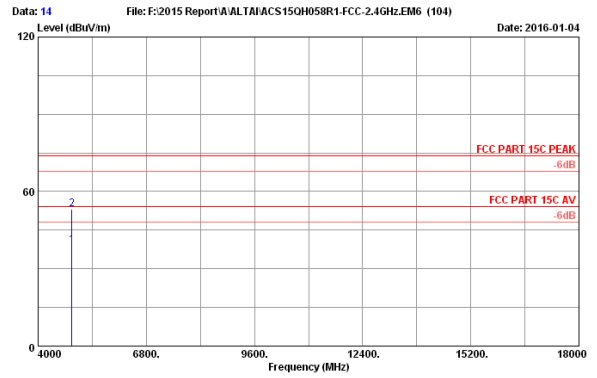
Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11b 2437MHz Tx
 WA3311NAC-C

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	2437.000	28.07	7.39	36.61	97.65	96.50	74.00	-22.50	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.



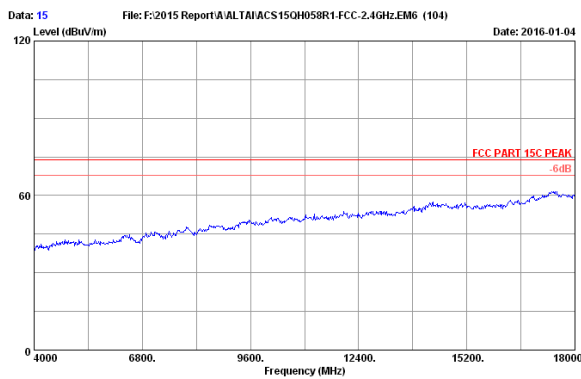
Site no. : 3m Chamber Data no. : 13
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11b 2437MHz TX
 WA3311NAC-C



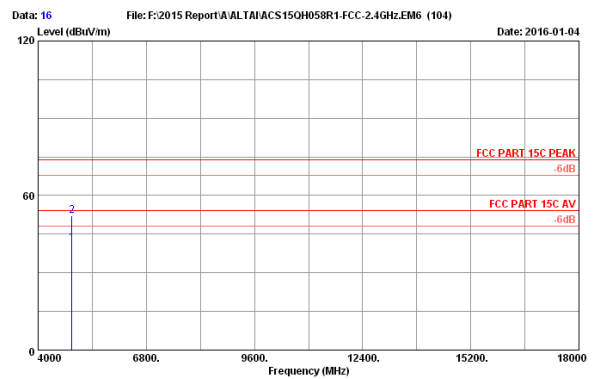
Site no. : 3m Chamber Data no. : 14
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11b 2437MHz TX
 WA3311NAC-C

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	4874.000	33.80	9.49	35.51	31.25	39.03	54.00	14.97	Average
2	4874.000	33.80	9.49	35.51	45.34	53.12	74.00	20.88	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.



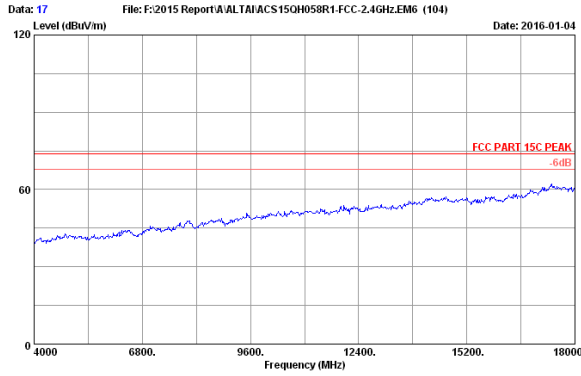
Site no. : 3m Chamber Data no. : 15
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11b 2437MHz TX
 WA3311NAC-C



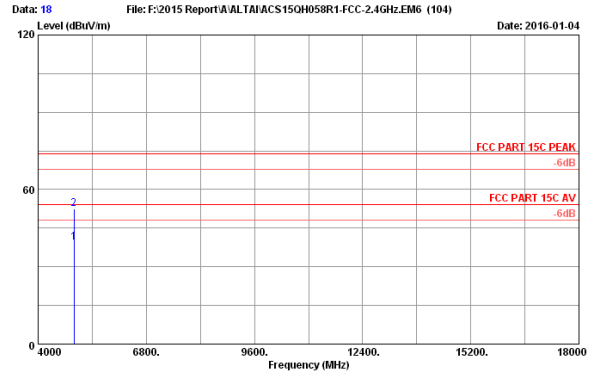
Site no. : 3m Chamber Data no. : 16
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11b 2437MHz TX
 WA3311NAC-C

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	4874.000	33.80	9.49	35.51	33.56	41.34	54.00	12.66	Average
2	4874.000	33.80	9.49	35.51	44.36	52.14	74.00	21.86	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.



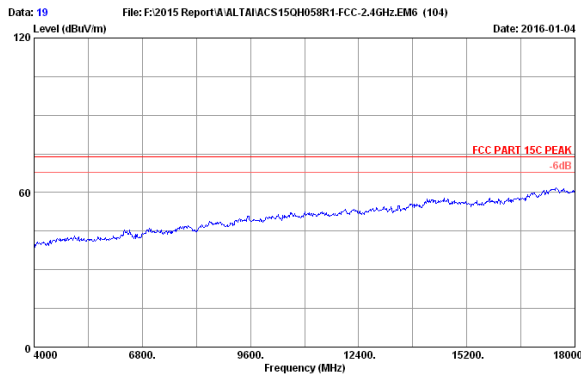
Site no. : 3m Chamber Data no. : 17
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11b 2462MHz TX
 WA3311NAC-C



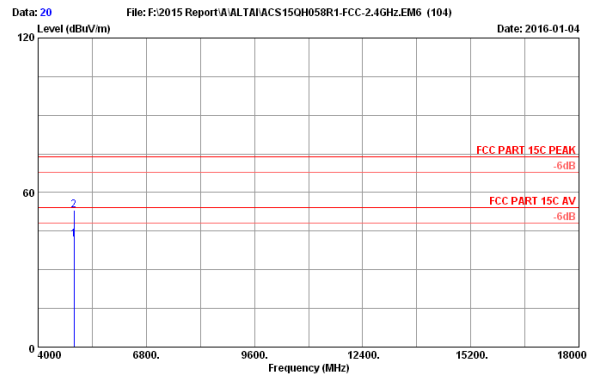
Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11b 2462MHz TX
 WA3311NAC-C

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	4924.000	33.88	9.51	35.48	31.60	39.59	54.00	14.41	Average
2	4924.000	33.88	9.51	35.48	44.57	52.48	74.00	21.52	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.



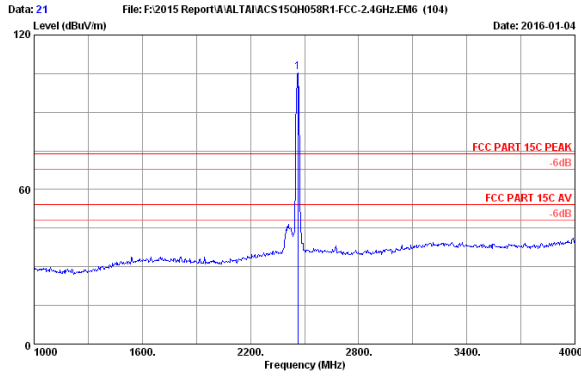
Site no. : 3m Chamber Data no. : 19
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11b 2462MHz TX
 WA3311NAC-C



Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11b 2462MHz TX
 WA3311NAC-C

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	4924.000	33.88	9.51	35.48	33.73	41.64	54.00	12.36	Average
2	4924.000	33.88	9.51	35.48	45.11	53.02	74.00	20.98	Peak

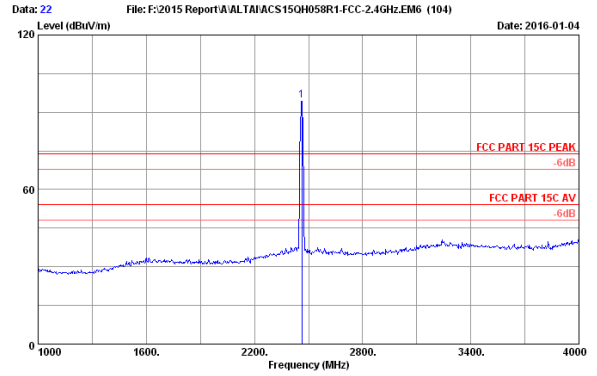
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 21
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11b 2462MHz Tx
 WA3311NAC-C

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	2462.000	28.12	7.43	36.60	106.74	105.69	74.00	-31.69	Peak

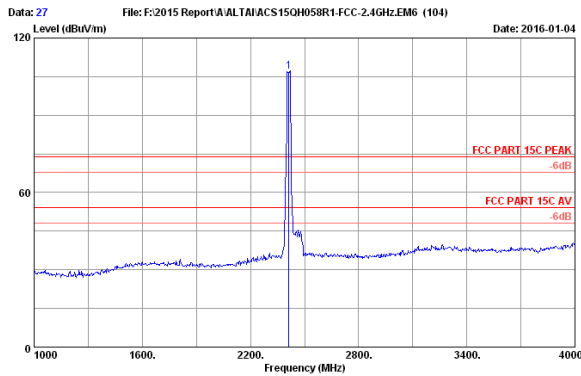
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 22
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11b 2462MHz Tx
 WA3311NAC-C

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	2462.000	28.12	7.43	36.60	95.78	94.73	74.00	-20.73	Peak

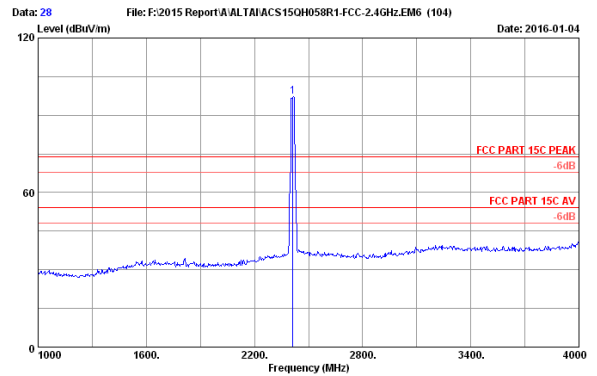
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 27
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2412MHz Tx
 WA3311NAC-C

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	2412.000	28.02	7.35	36.62	108.34	107.09	74.00	-33.09	Peak

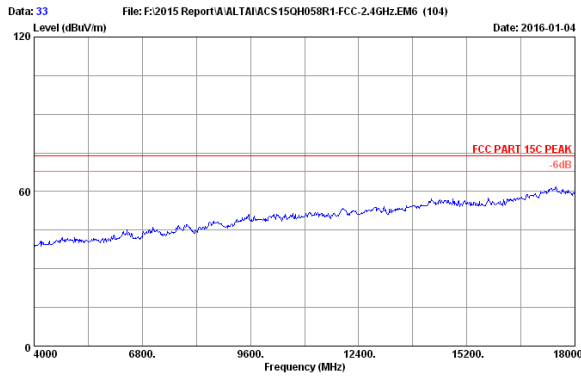
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



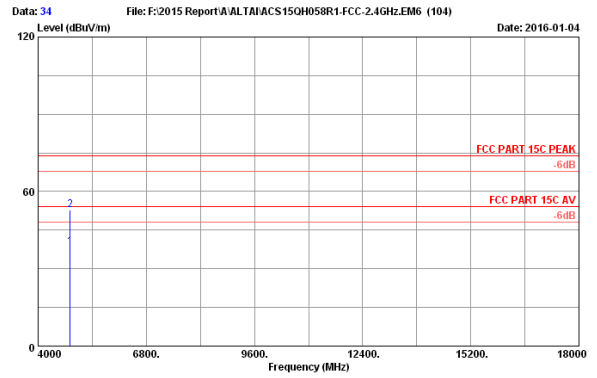
Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2412MHz Tx
 WA3311NAC-C

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	2412.000	28.02	7.35	36.62	98.46	97.21	74.00	-23.21	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.



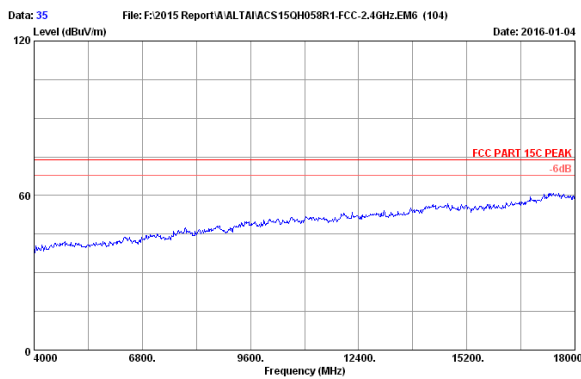
Site no. : 3m Chamber Data no. : 33
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2412MHz TX
 WA3311NAC-C



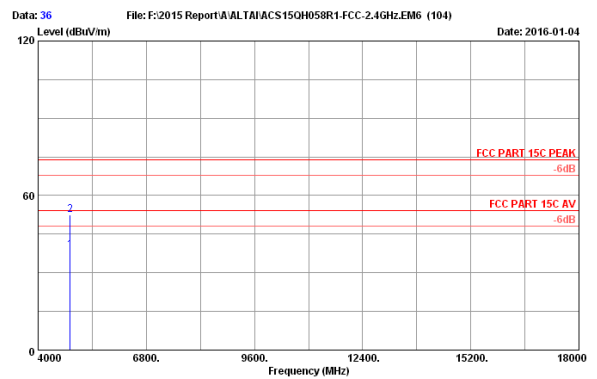
Site no. : 3m Chamber Data no. : 34
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2412MHz TX
 WA3311NAC-C

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	4824.000	33.72	9.46	35.53	30.67	38.32	54.00	15.68	Average
2	4824.000	33.72	9.46	35.53	45.12	52.77	74.00	21.23	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.



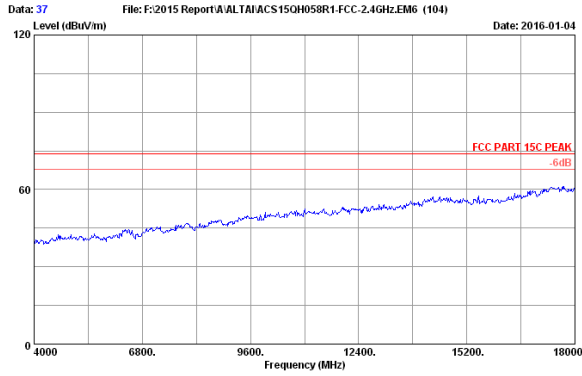
Site no. : 3m Chamber Data no. : 35
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2412MHz TX
 WA3311NAC-C



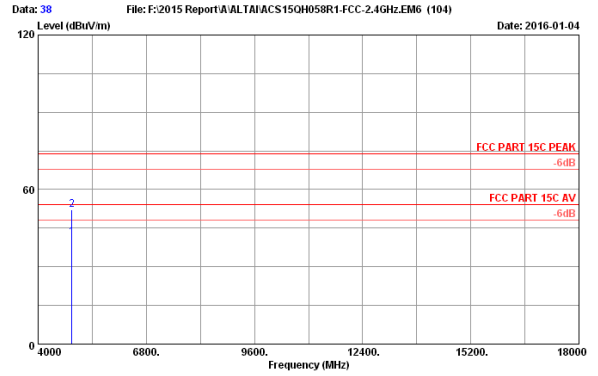
Site no. : 3m Chamber Data no. : 36
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2412MHz TX
 WA3311NAC-C

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	4824.000	33.72	9.46	35.53	31.02	38.67	54.00	15.33	Average
2	4824.000	33.72	9.46	35.53	44.78	52.43	74.00	21.57	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.



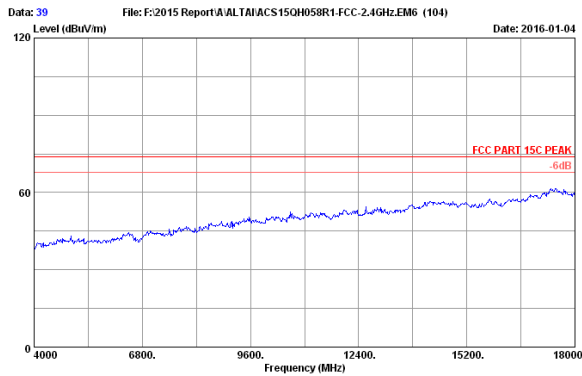
Site no. : 3m Chamber Data no. : 37
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2437MHz TX
 WA3311NAC-C



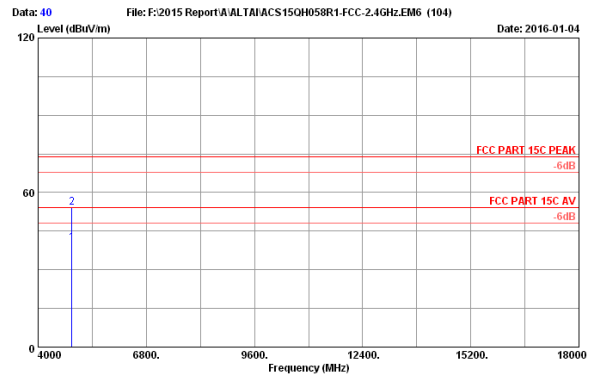
Site no. : 3m Chamber Data no. : 38
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2437MHz TX
 WA3311NAC-C

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	4874.000	33.80	9.49	35.51	33.67	41.45	54.00	12.55	Average
2	4874.000	33.80	9.49	35.51	44.36	52.14	74.00	21.86	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.



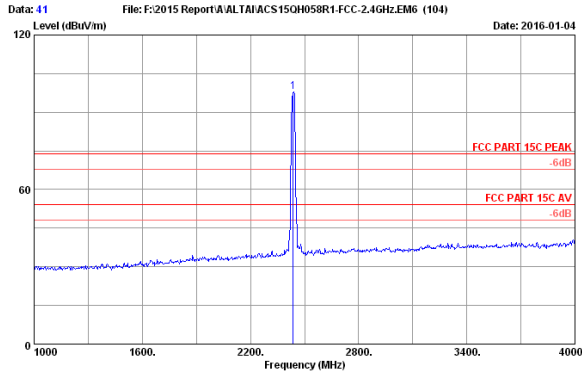
Site no. : 3m Chamber Data no. : 39
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2437MHz TX
 WA3311NAC-C



Site no. : 3m Chamber Data no. : 40
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2437MHz TX
 WA3311NAC-C

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	4874.000	33.80	9.49	35.51	32.51	40.29	54.00	13.71	Average
2	4874.000	33.80	9.49	35.51	46.23	54.01	74.00	19.99	Peak

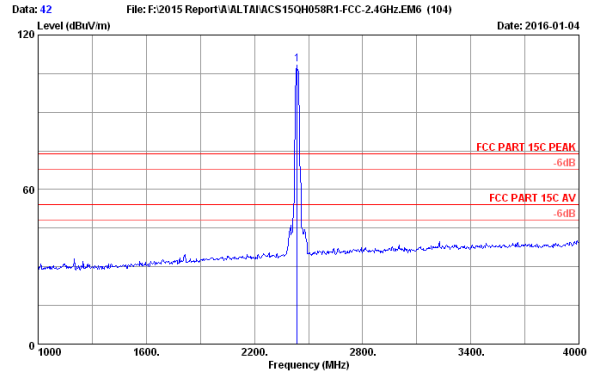
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 41
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2437MHz TX
 WA3311NAC-C

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	2437.000	28.07	7.39	36.61	99.16	98.01	74.00	-24.01	Peak

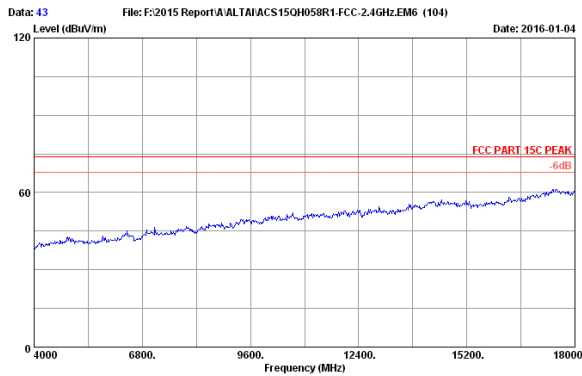
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



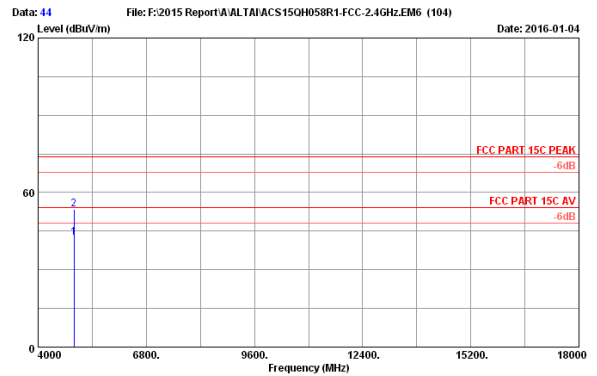
Site no. : 3m Chamber Data no. : 42
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2437MHz TX
 WA3311NAC-C

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	2437.000	28.07	7.39	36.61	109.69	108.54	74.00	-34.54	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.



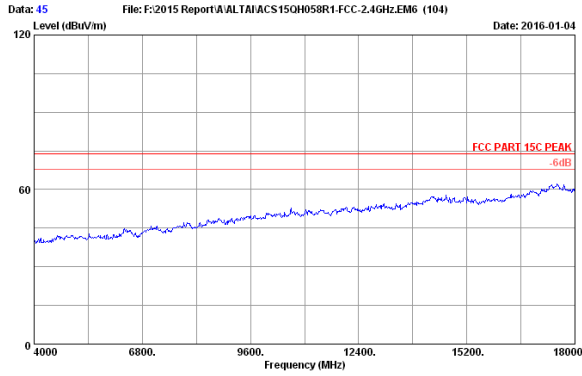
Site no. : 3m Chamber Data no. : 43
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2462MHz TX
 WA3311NAC-C



Site no. : 3m Chamber Data no. : 44
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2462MHz TX
 WA3311NAC-C

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	4924.000	33.88	9.51	35.48	34.57	42.48	54.00	11.52	Average
2	4924.000	33.88	9.51	35.48	45.63	53.54	74.00	20.46	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.



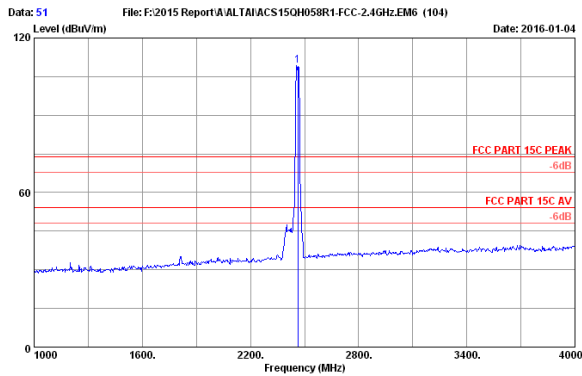
Site no. : 3m Chamber Data no. : 45
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2462MHz Tx
 WA3311NAC-C



Site no. : 3m Chamber Data no. : 46
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2462MHz Tx
 WA3311NAC-C

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	4924.000	33.88	9.51	35.48	34.60	42.59	54.00	11.41	Average
2	4924.000	33.88	9.51	35.48	45.35	53.26	74.00	20.74	Peak

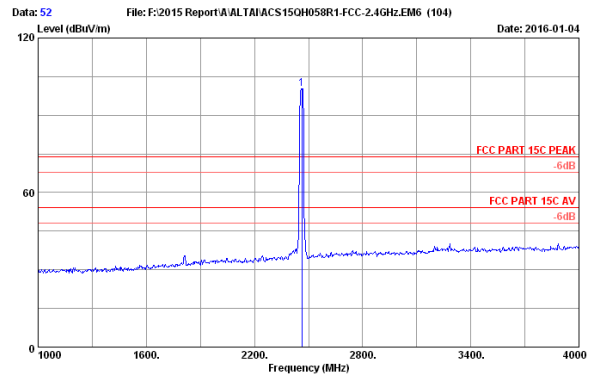
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 51
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2462MHz Tx
 WA3311NAC-C

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	2462.000	28.12	7.43	36.60	110.24	109.19	74.00	-35.19	Peak

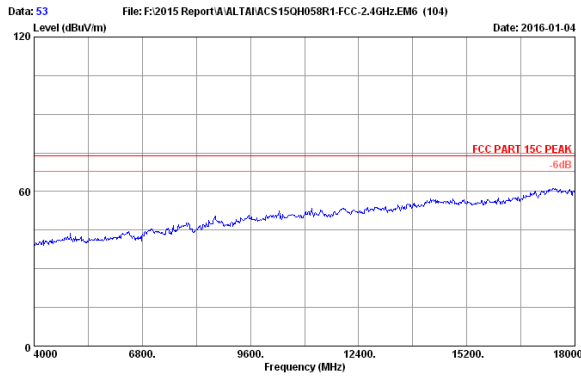
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



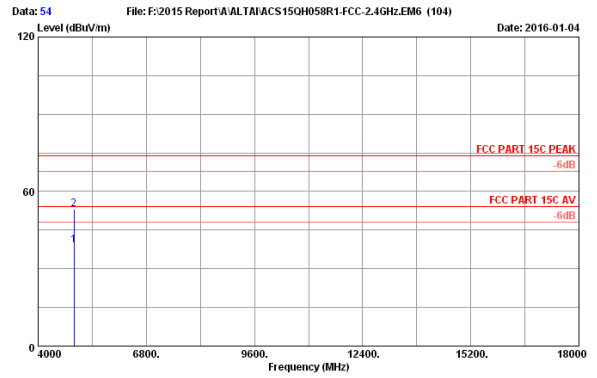
Site no. : 3m Chamber Data no. : 52
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2462MHz Tx
 WA3311NAC-C

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	2462.000	28.12	7.43	36.60	101.36	100.31	74.00	-26.31	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.



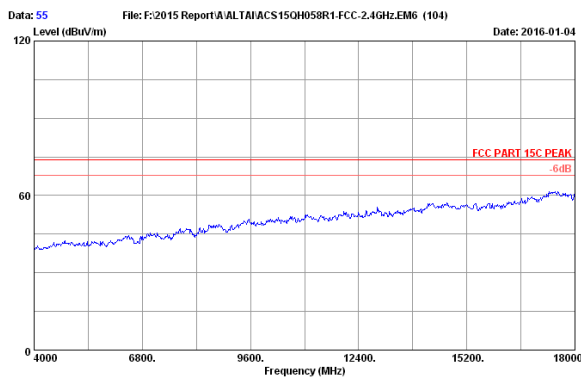
Site no. : 3m Chamber Data no. : 53
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEES02.11nHT20 2462MHz TX
 WA3311NAC-C



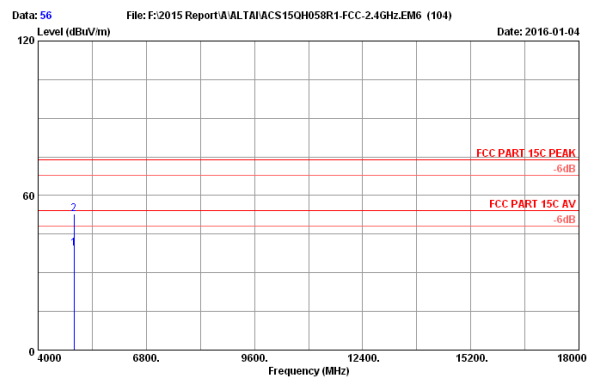
Site no. : 3m Chamber Data no. : 54
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEES02.11nHT20 2462MHz TX
 WA3311NAC-C

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	4924.000	33.88	9.51	35.48	31.27	39.15	54.00	14.62	Average
2	4924.000	33.88	9.51	35.48	45.36	53.27	74.00	20.73	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.



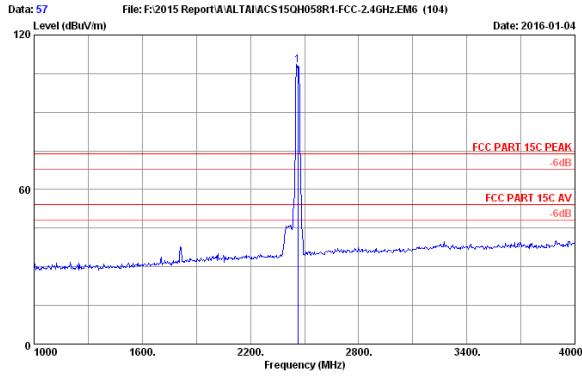
Site no. : 3m Chamber Data no. : 55
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEES02.11nHT20 2462MHz TX
 WA3311NAC-C



Site no. : 3m Chamber Data no. : 56
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEES02.11nHT20 2462MHz TX
 WA3311NAC-C

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	4924.000	33.88	9.51	35.48	31.56	39.47	54.00	14.53	Average
2	4924.000	33.88	9.51	35.48	44.78	52.69	74.00	21.31	Peak

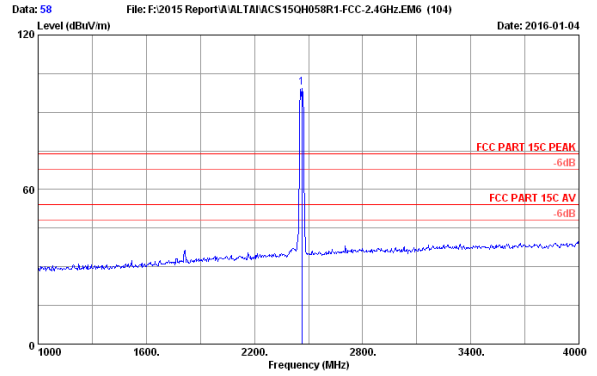
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 57
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2462MHz TX
 WA3311NAC-C

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	2462.000	28.12	7.43	36.60	109.44	108.39	74.00	-34.39	Peak

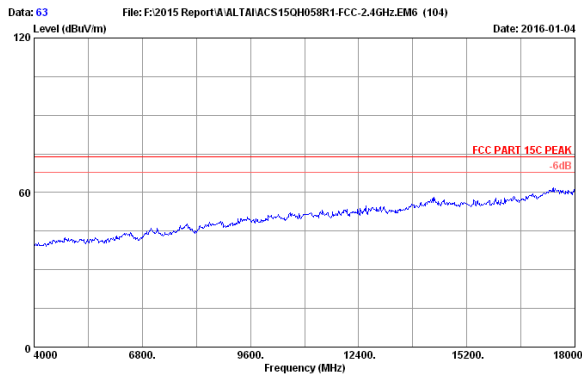
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



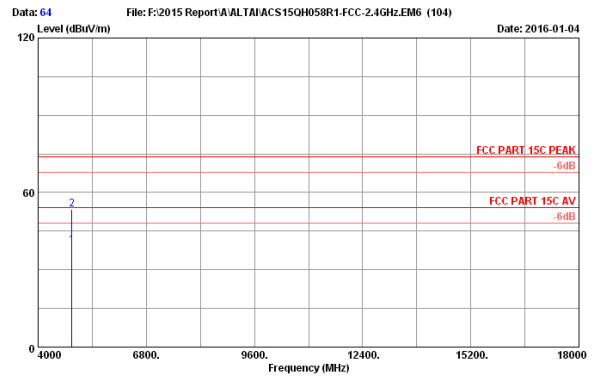
Site no. : 3m Chamber Data no. : 58
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2462MHz TX
 WA3311NAC-C

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	2462.000	28.12	7.43	36.60	100.59	99.54	74.00	-25.54	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.



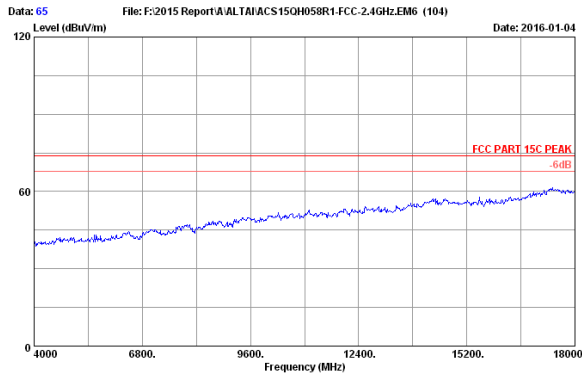
Site no. : 3m Chamber Data no. : 63
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2437MHz TX
 WA3311NAC-C



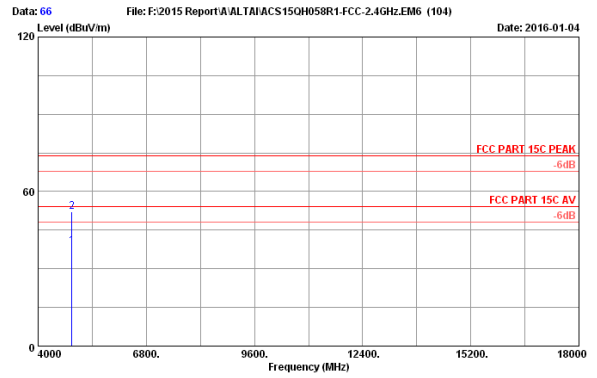
Site no. : 3m Chamber Data no. : 64
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2437MHz TX
 WA3311NAC-C

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	4874.000	33.80	9.49	35.51	31.59	39.37	54.00	14.63	Average
2	4874.000	33.80	9.49	35.51	45.63	53.41	74.00	20.59	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.



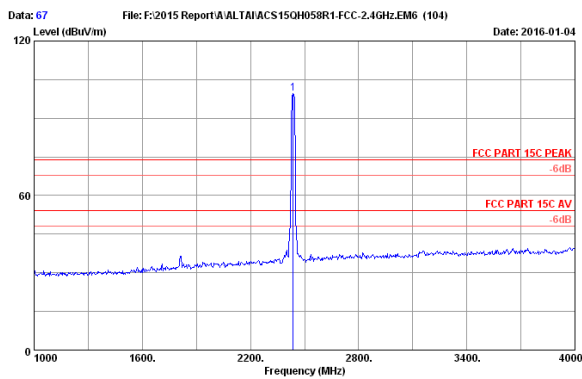
Site no. : 3m Chamber Data no. : 65
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2437MHz TX
 WA3311NAC-C



Site no. : 3m Chamber Data no. : 66
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2437MHz TX
 WA3311NAC-C

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	4874.000	33.80	9.49	35.51	30.04	36.62	54.00	15.38	Average
2	4874.000	33.80	9.49	35.51	44.38	52.16	74.00	21.84	Peak

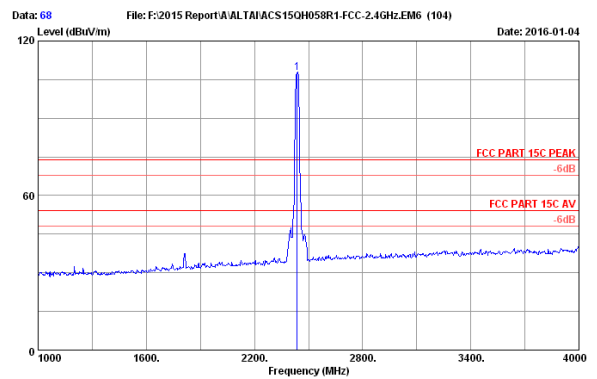
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 67
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2437MHz TX
 WA3311NAC-C

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	2437.000	28.07	7.39	36.61	100.87	99.72	74.00	-25.72	Peak

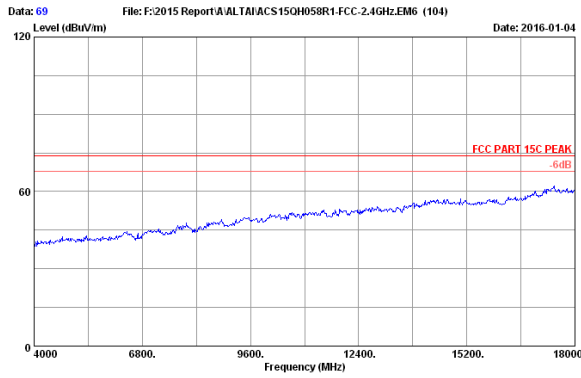
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



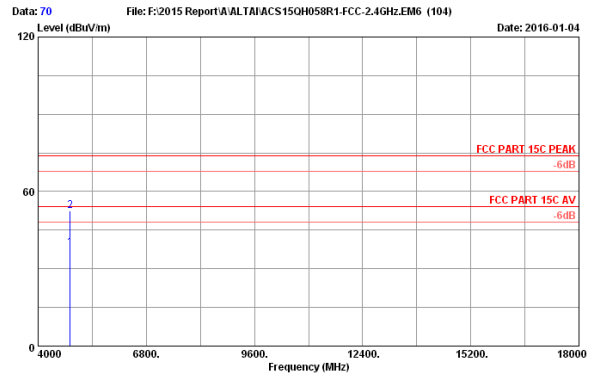
Site no. : 3m Chamber Data no. : 68
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2437MHz TX
 WA3311NAC-C

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	2437.000	28.07	7.39	36.61	108.90	107.75	74.00	-33.75	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.



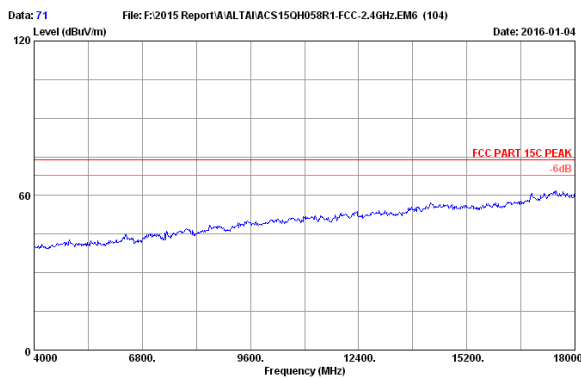
Site no. : 3m Chamber Data no. : 69
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412MHz TX
 WA3311NAC-C



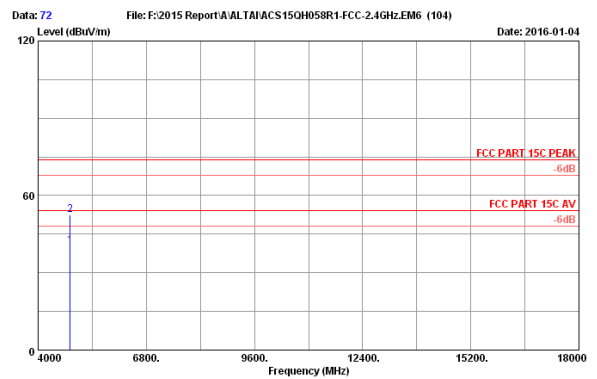
Site no. : 3m Chamber Data no. : 70
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412MHz TX
 WA3311NAC-C

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	4824.000	33.72	9.46	35.53	30.51	36.15	54.00	15.84	Average
2	4824.000	33.72	9.46	35.53	44.69	52.34	74.00	21.66	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.



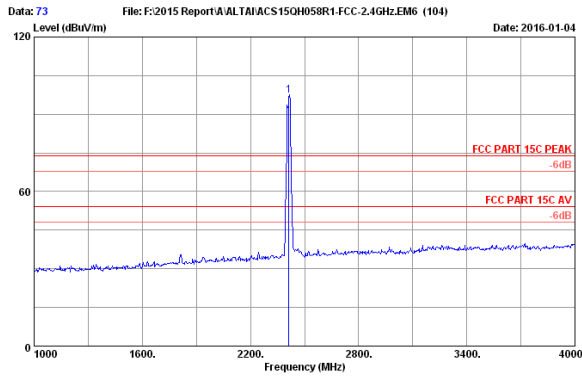
Site no. : 3m Chamber Data no. : 71
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412MHz TX
 WA3311NAC-C



Site no. : 3m Chamber Data no. : 72
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412MHz TX
 WA3311NAC-C

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	4824.000	33.72	9.46	35.53	32.75	40.40	54.00	13.60	Average
2	4824.000	33.72	9.46	35.53	44.73	52.38	74.00	21.62	Peak

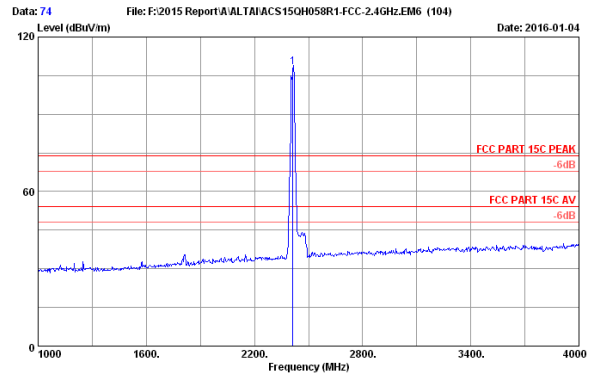
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 73
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412MHz TX
 WA3311NAC-C

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	2412.000	28.02	7.35	36.62	98.46	97.21	74.00	-23.21	Peak

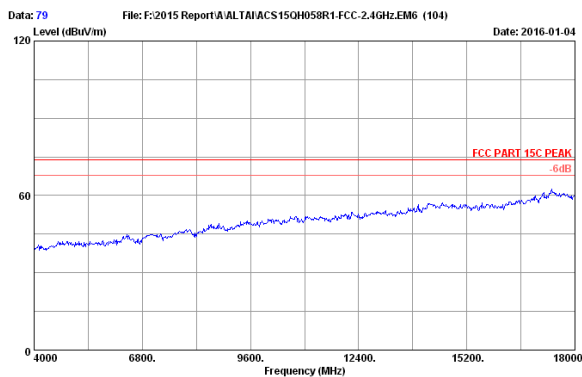
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 74
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412MHz TX
 WA3311NAC-C

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	2412.000	28.02	7.35	36.62	109.57	108.32	74.00	-34.32	Peak

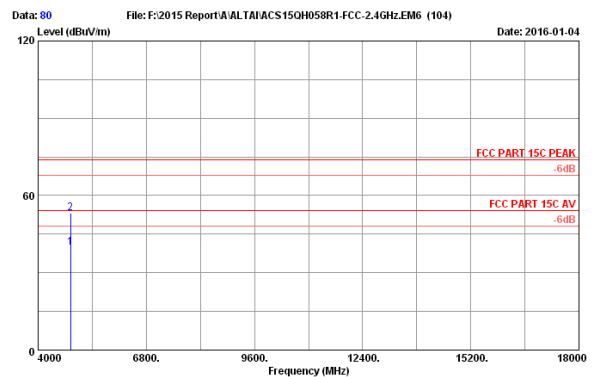
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 79
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2422MHz TX
 WA3311NAC-C

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	4844.000	33.75	9.47	35.52	32.16	39.86	54.00	14.14	Average
2	4844.000	33.75	9.47	35.52	45.60	53.30	74.00	20.70	Peak

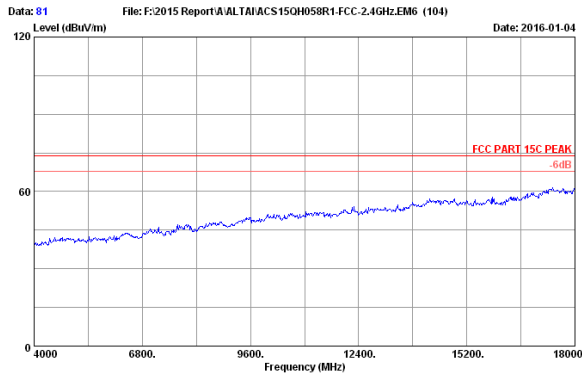
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



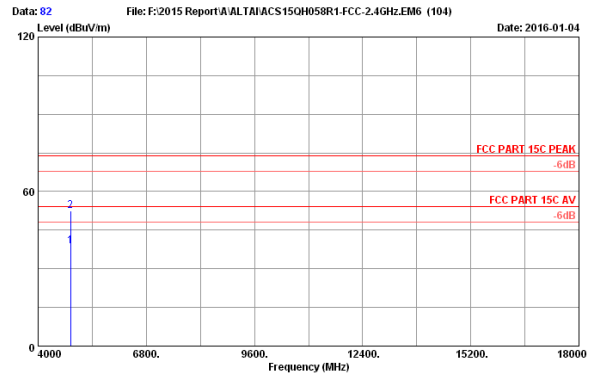
Site no. : 3m Chamber Data no. : 80
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2422MHz TX
 WA3311NAC-C

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	4844.000	33.75	9.47	35.52	32.16	39.86	54.00	14.14	Average
2	4844.000	33.75	9.47	35.52	45.60	53.30	74.00	20.70	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.



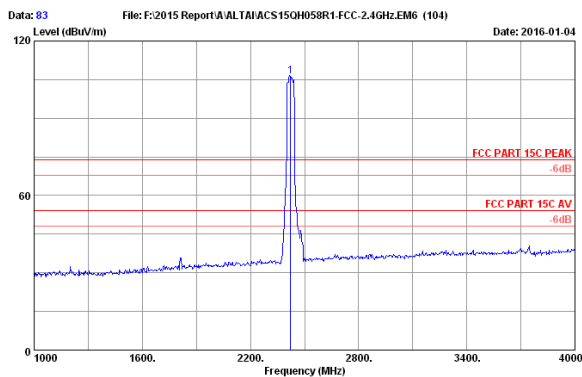
Site no. : 3m Chamber Data no. : 81
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2422MHz TX
 WA3311NAC-C



Site no. : 3m Chamber Data no. : 82
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2422MHz TX
 WA3311NAC-C

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	4844.000	33.75	9.47	35.52	31.06	36.76	54.00	15.24	Average
2	4844.000	33.75	9.47	35.52	44.82	52.52	74.00	21.48	Peak

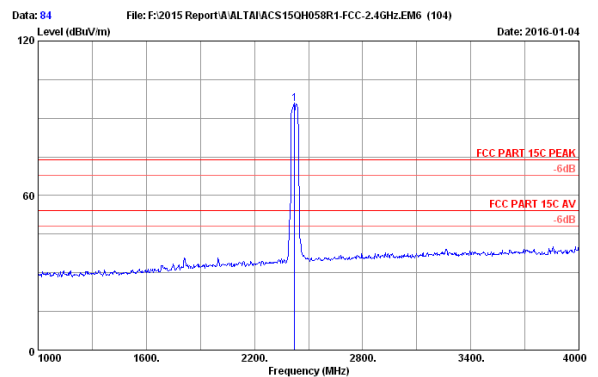
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 83
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2422MHz TX
 WA3311NAC-C

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	2422.000	28.04	7.35	36.61	107.46	106.24	74.00	-32.24	Peak

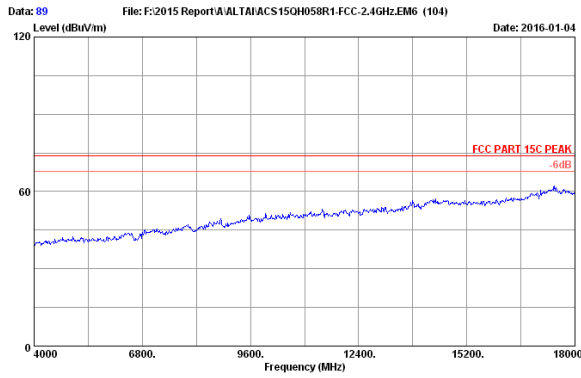
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



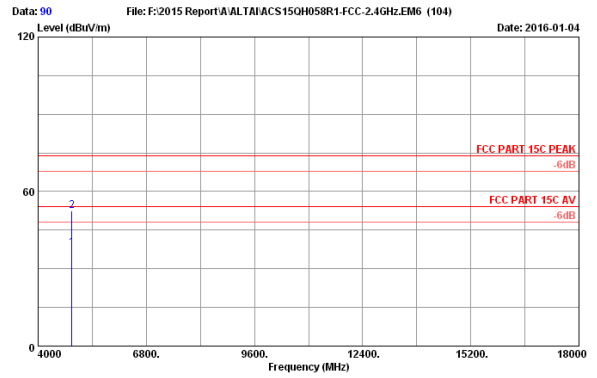
Site no. : 3m Chamber Data no. : 84
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2422MHz TX
 WA3311NAC-C

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	2422.000	28.04	7.35	36.61	96.84	95.62	74.00	-21.62	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.



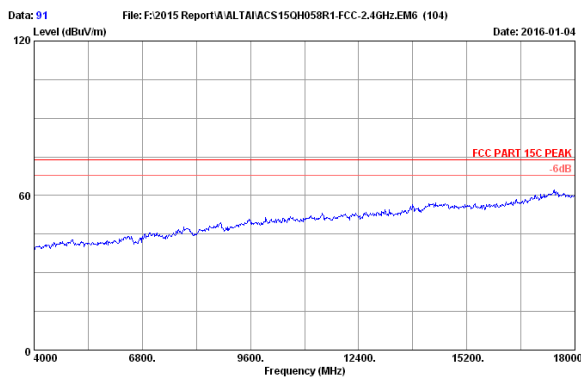
Site no. : 3m Chamber Data no. : 89
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2437MHz TX
 WA3311NAC-C



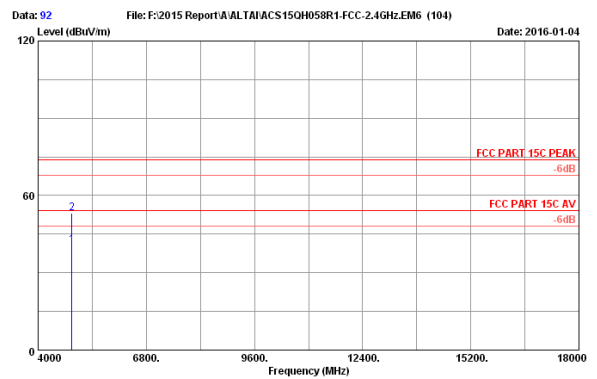
Site no. : 3m Chamber Data no. : 90
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2437MHz TX
 WA3311NAC-C

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	4874.000	33.80	9.49	35.51	30.49	38.27	54.00	15.73	Average
2	4874.000	33.80	9.49	35.51	44.63	52.41	74.00	21.59	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.



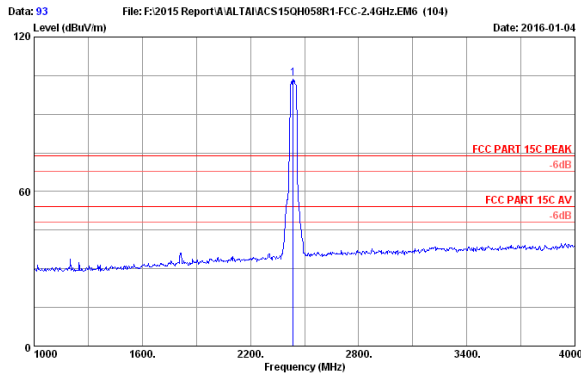
Site no. : 3m Chamber Data no. : 91
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2437MHz TX
 WA3311NAC-C



Site no. : 3m Chamber Data no. : 92
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2437MHz TX
 WA3311NAC-C

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	4874.000	33.80	9.49	35.51	32.86	40.64	54.00	13.36	Average
2	4874.000	33.80	9.49	35.51	45.37	53.15	74.00	20.85	Peak

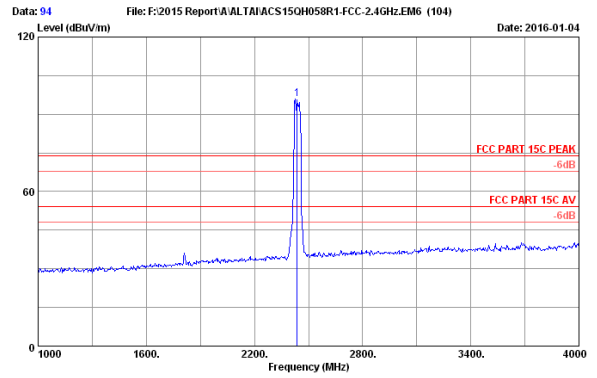
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 93
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2437MHz TX
 WA3311NAC-C

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	2437.000	28.07	7.39	36.61	105.13	103.98	74.00	-29.98	Peak

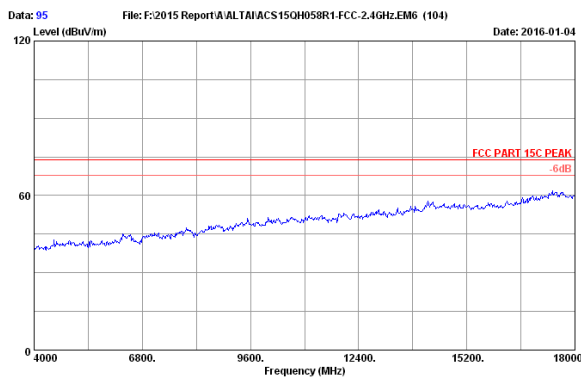
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 94
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2437MHz TX
 WA3311NAC-C

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	2437.000	28.07	7.39	36.61	97.18	96.03	74.00	-22.03	Peak

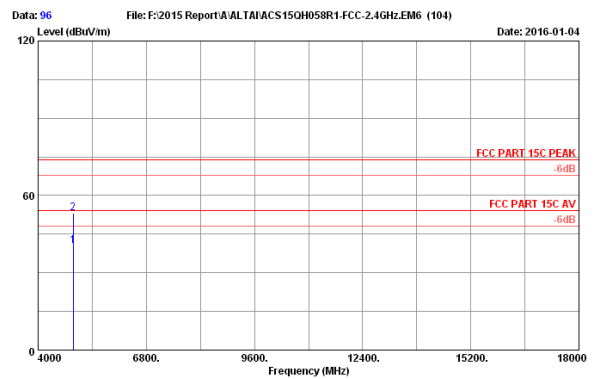
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 95
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2452MHz TX
 WA3311NAC-C

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	4904.000	33.85	9.50	35.50	32.67	40.52	54.00	13.48	Average
2	4904.000	33.85	9.50	35.50	45.22	53.07	74.00	20.93	Peak

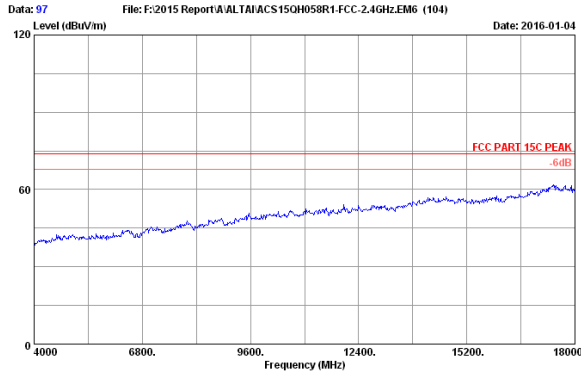
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



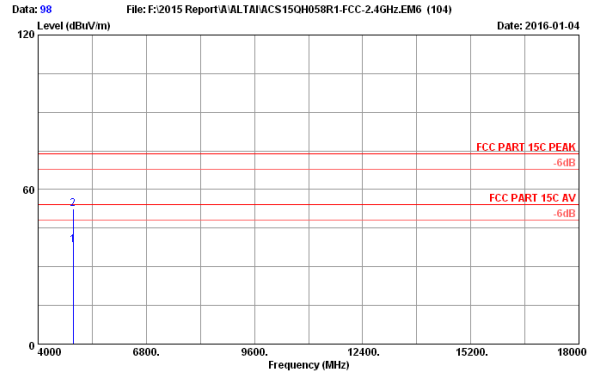
Site no. : 3m Chamber Data no. : 96
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2452MHz TX
 WA3311NAC-C

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	4904.000	33.85	9.50	35.50	32.67	40.52	54.00	13.48	Average
2	4904.000	33.85	9.50	35.50	45.22	53.07	74.00	20.93	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.



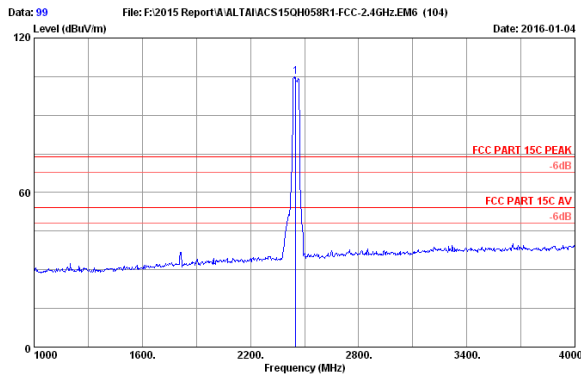
Site no. : 3m Chamber Data no. : 97
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2452MHz Tx
 WA3311NAC-C



Site no. : 3m Chamber Data no. : 98
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2452MHz Tx
 WA3311NAC-C

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	4904.000	33.85	9.50	35.50	30.45	36.30	54.00	15.70	Average
2	4904.000	33.85	9.50	35.50	44.72	52.37	74.00	21.43	Peak

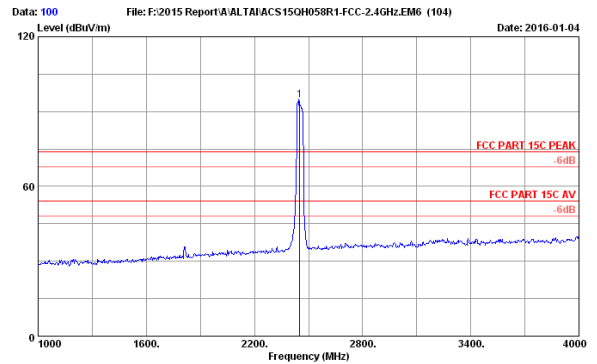
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 99
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2452MHz Tx
 WA3311NAC-C

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	2452.000	28.10	7.43	36.60	105.90	104.83	74.00	-30.83	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. : 100
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2452MHz Tx
 WA3311NAC-C

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	2452.000	28.10	7.43	36.60	95.73	94.66	74.00	-20.66	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.

5. CONDUCTED SPURIOUS EMISSIONS

5.1. Test Equipment

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

5.2. Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

5.3. Test Procedure

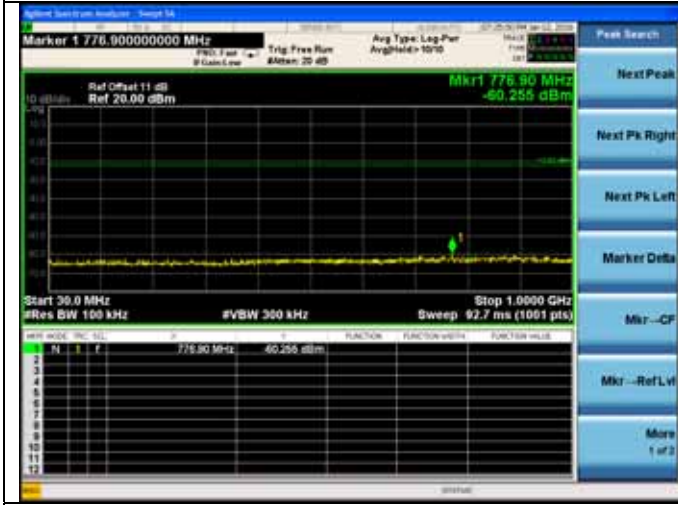
The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz and measure all the emissions with peak detector.

5.4. Test result

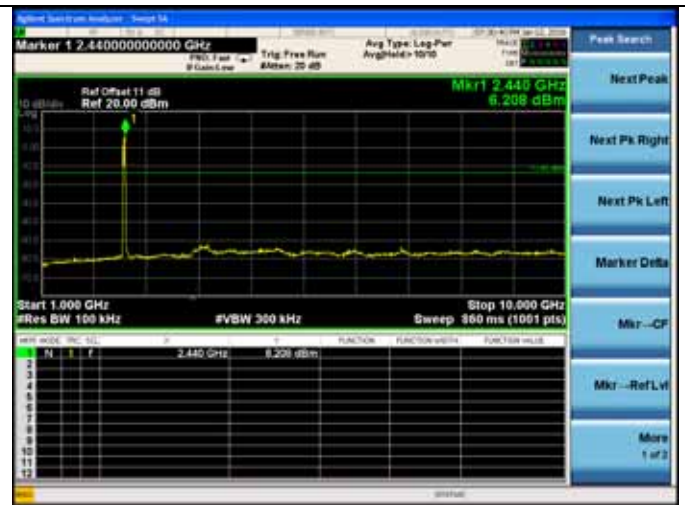
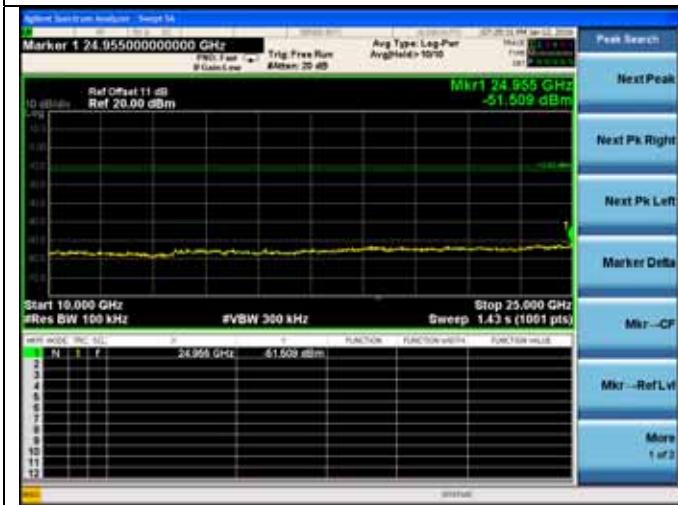
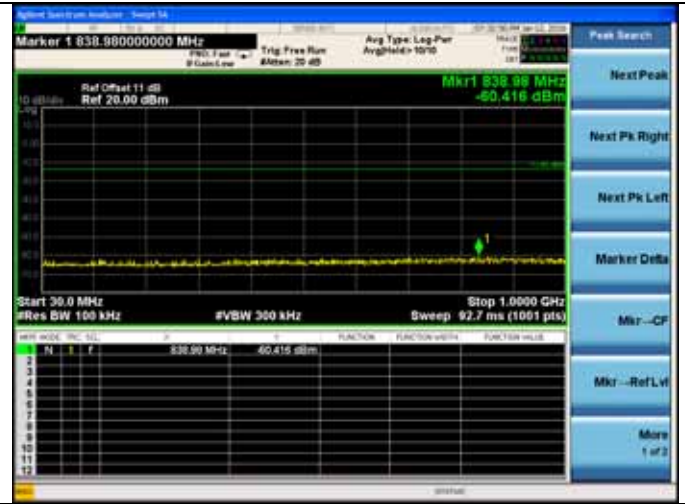
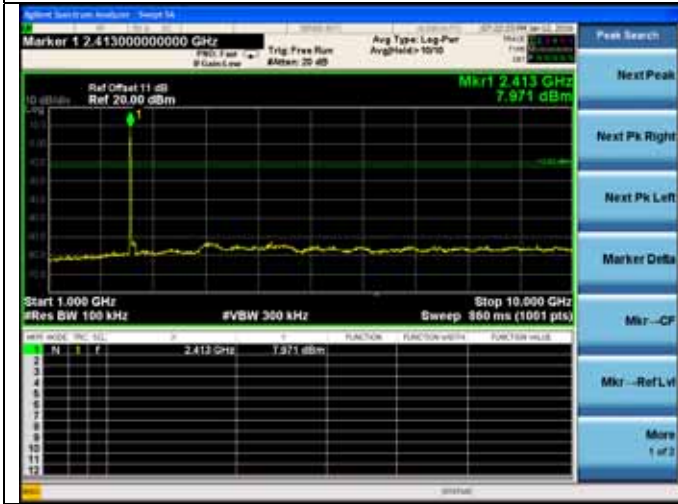
PASS (The testing data was attached in the next pages.)

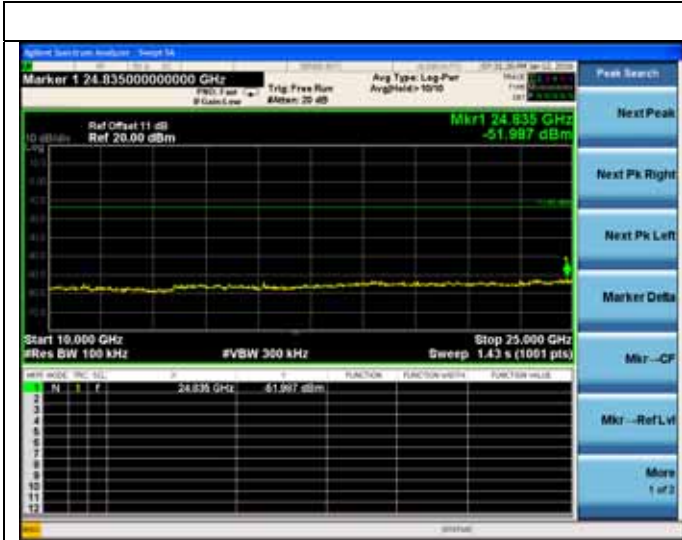
ANT1:

Test Mode: IEEE 802.11b
 Test CH1: 2412MHz

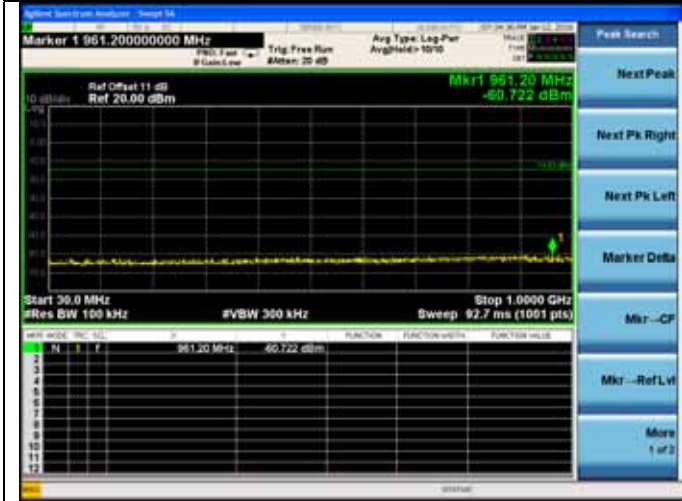


Test CH6: 2437MHz

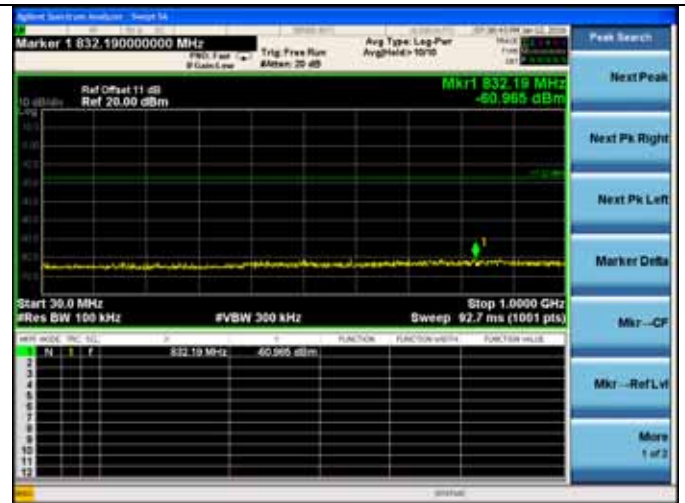
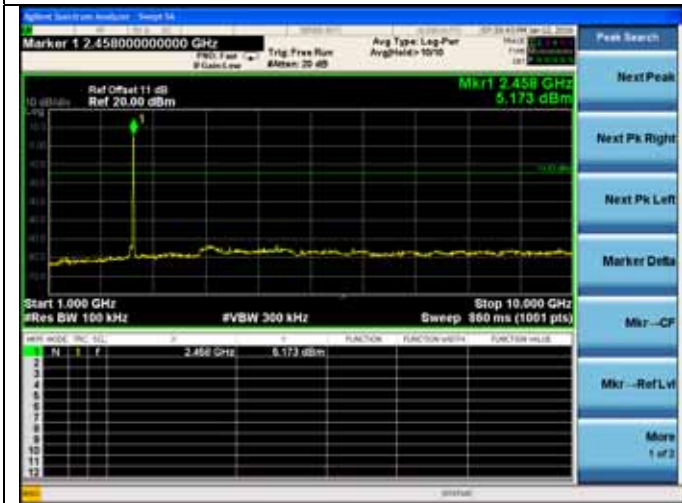




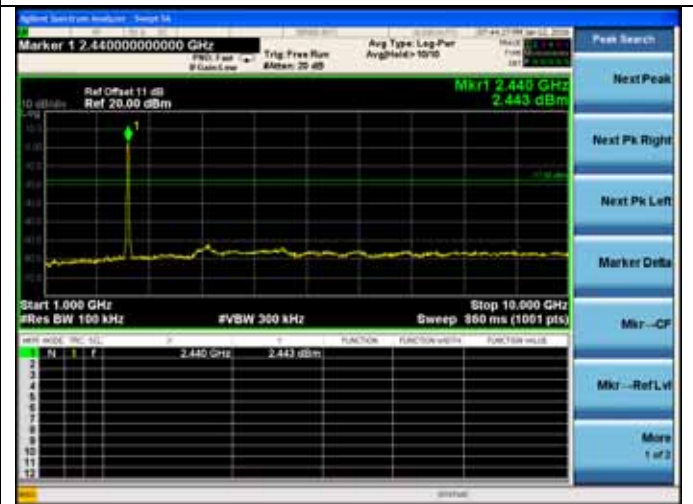
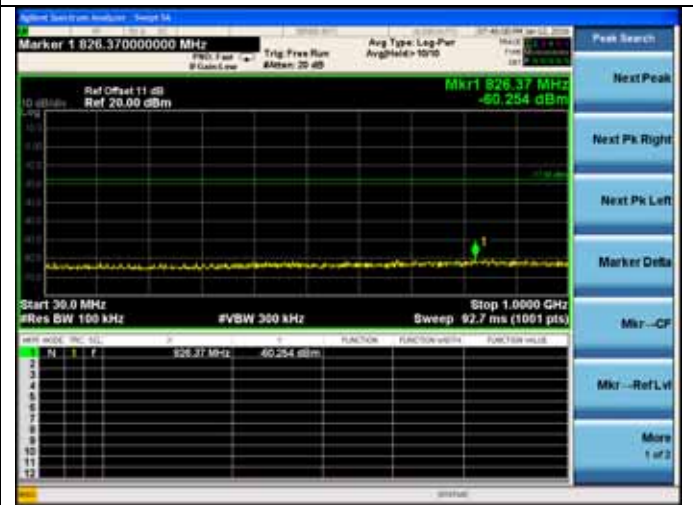
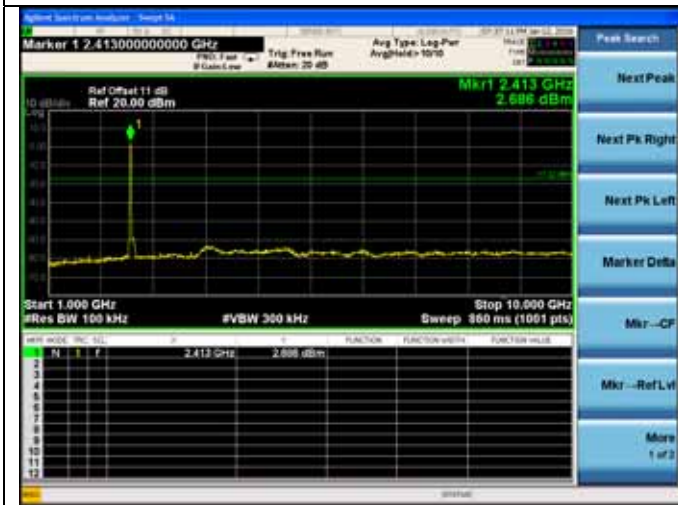
Test CH11: 2462MHz



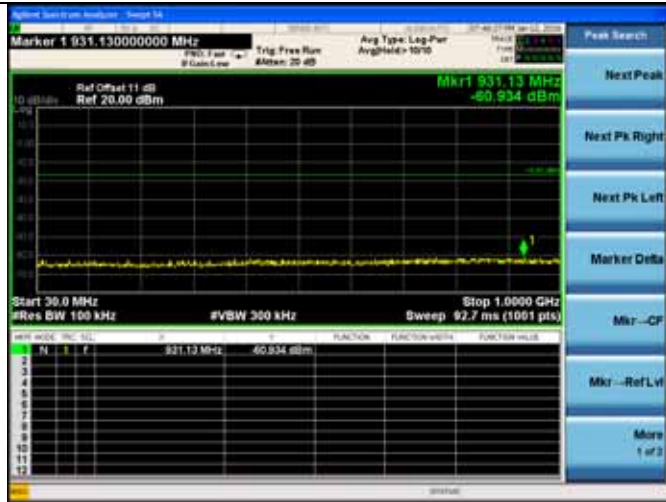
Test Mode: IEEE 802.11g
 Test CH1: 2412MHz



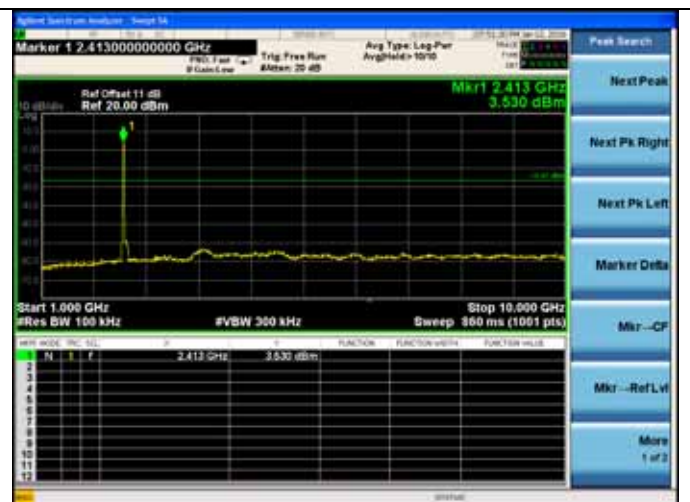
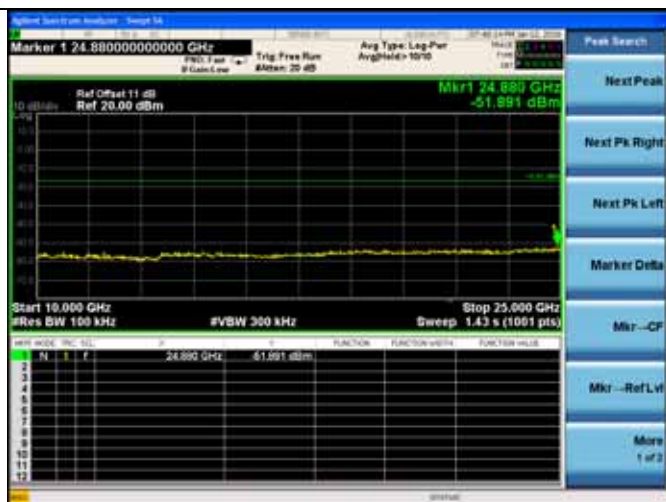
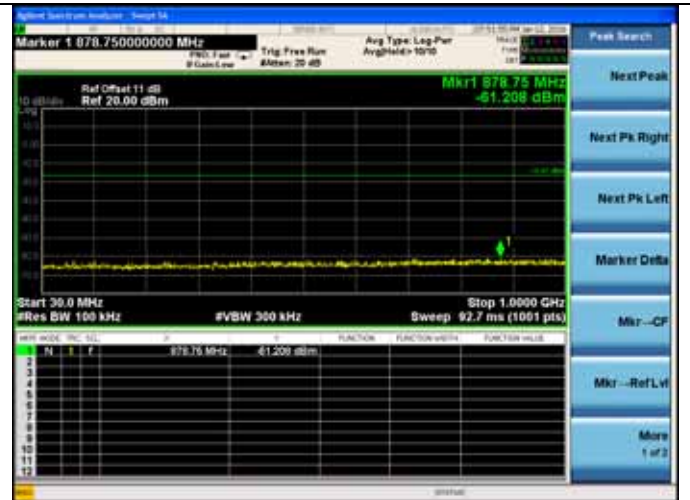
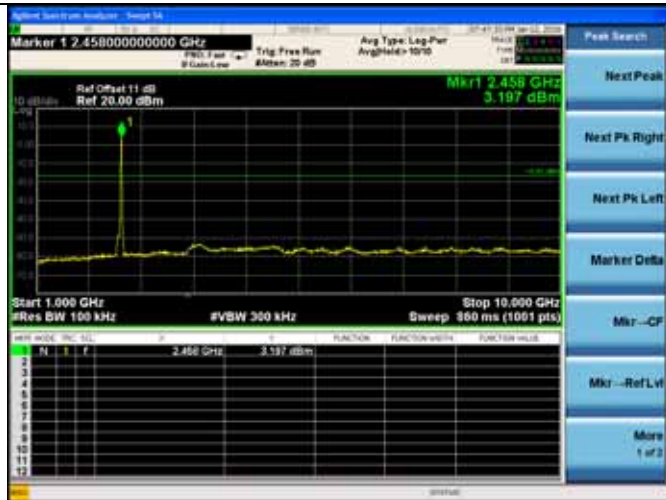
Test CH6: 2437MHz

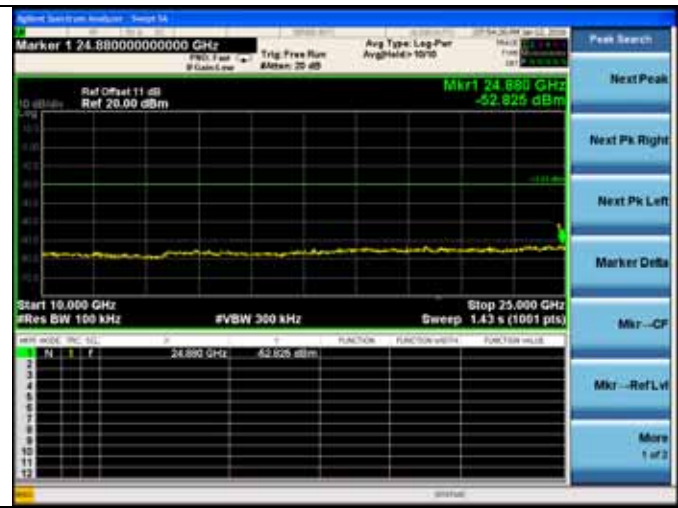
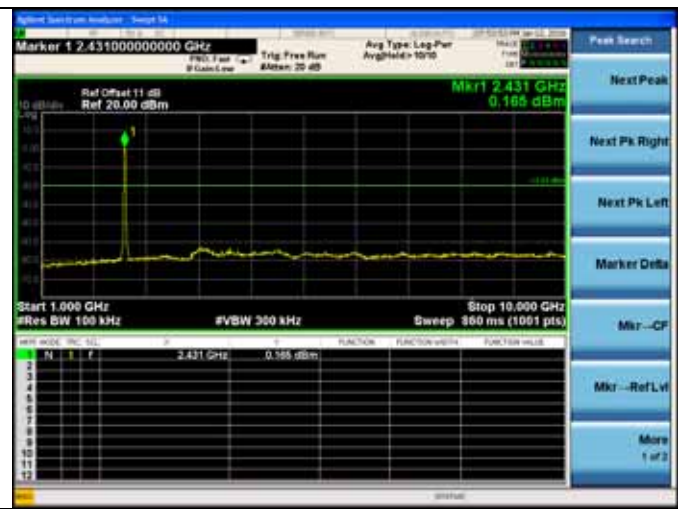
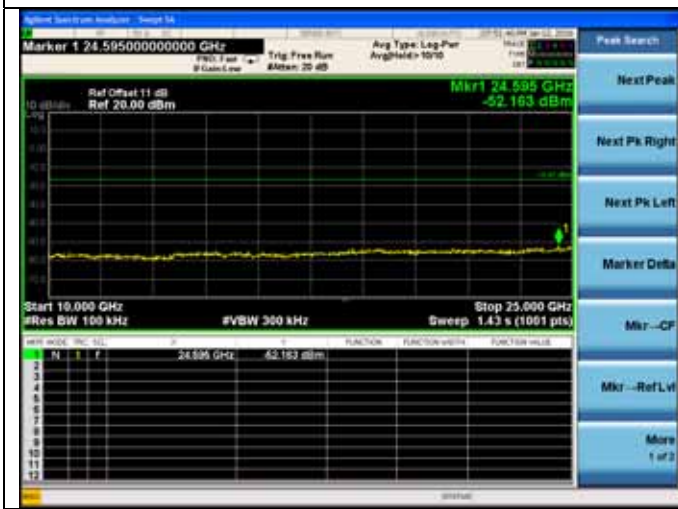


Test CH11: 2462MHz



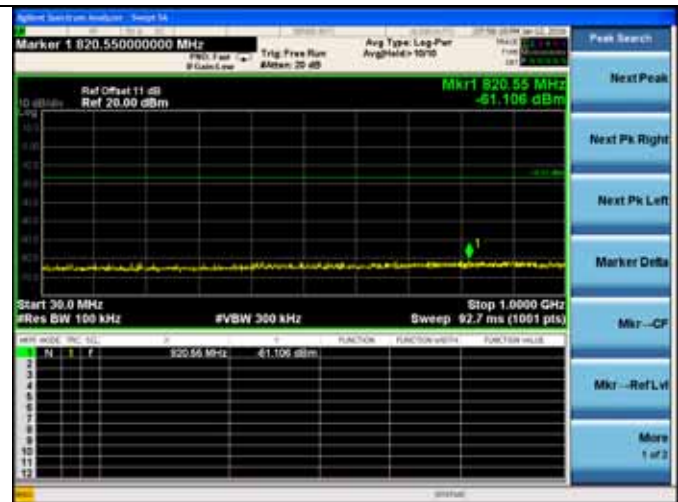
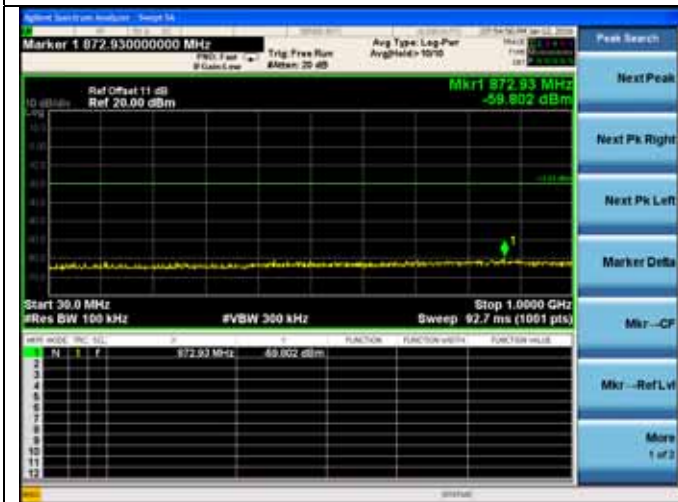
Test Mode: IEEE 802.11n HT20
Test CH1: 2412MHz



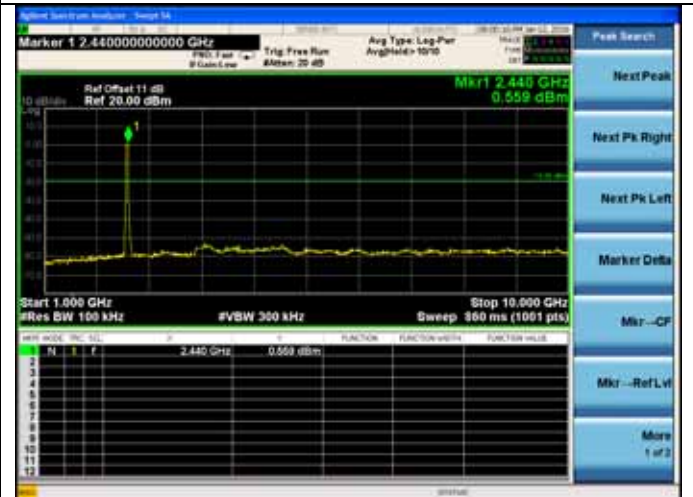
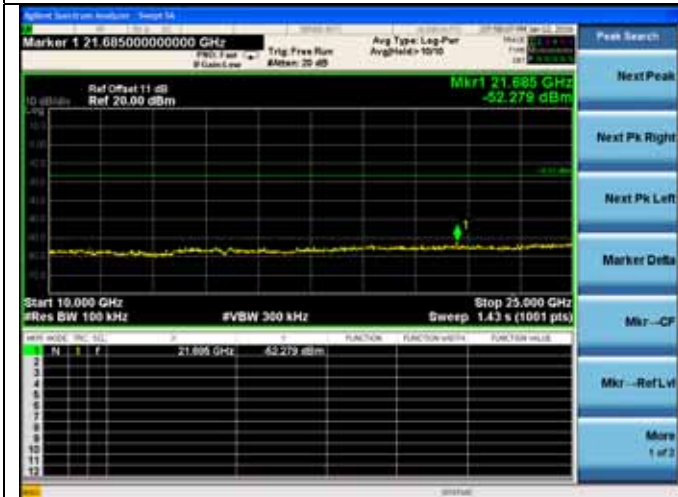
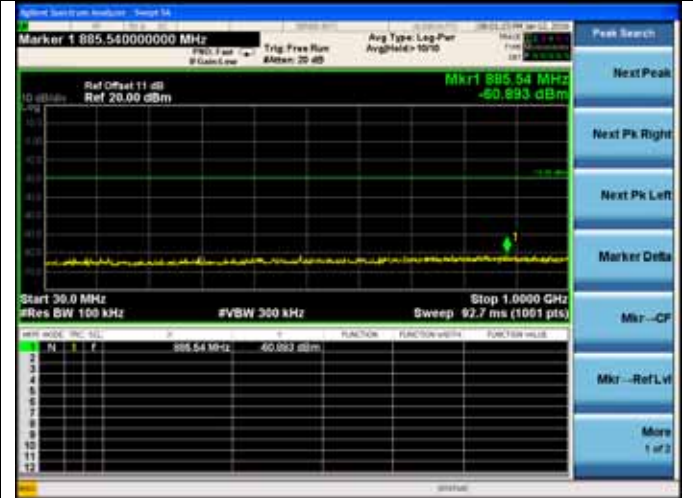
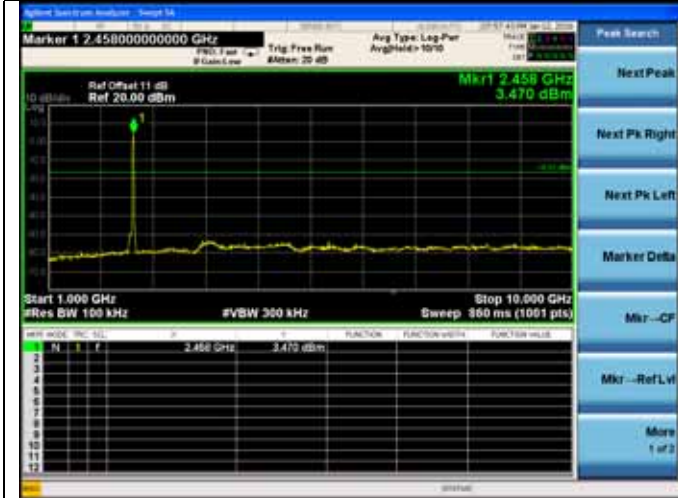


Test CH6: 2437MHz

Test CH11: 2462MHz

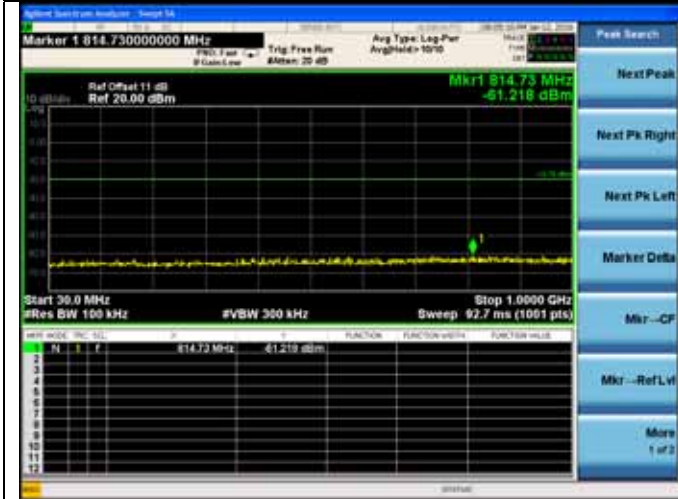


Test Mode: IEEE 802.11n HT40
 Test CH3: 2422MHz

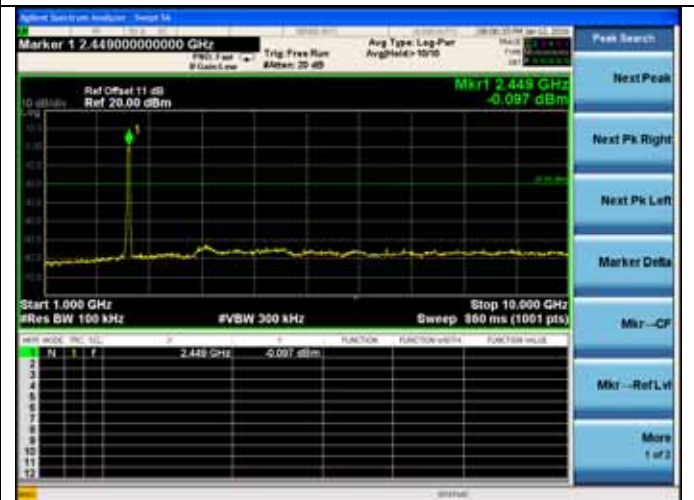
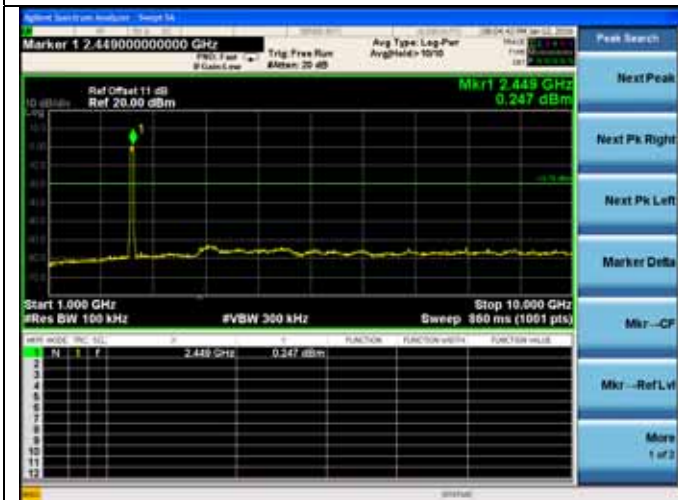




Test CH6: 2437MHz



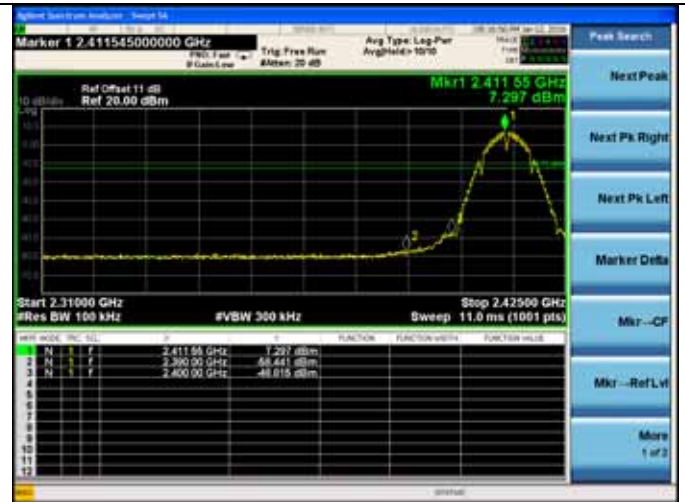
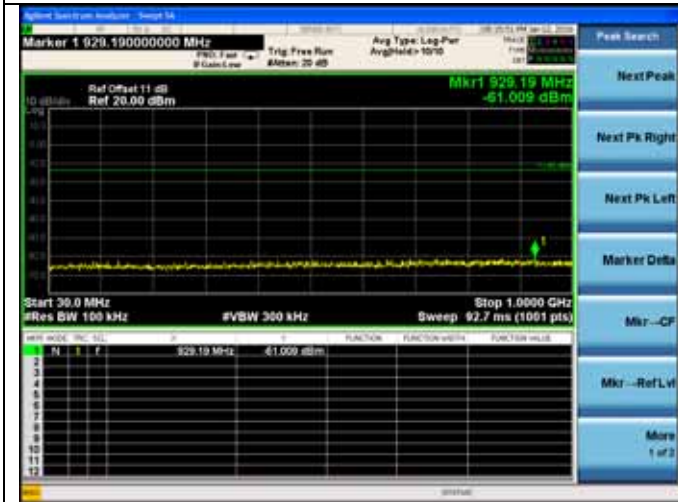
Test CH9: 2452MHz



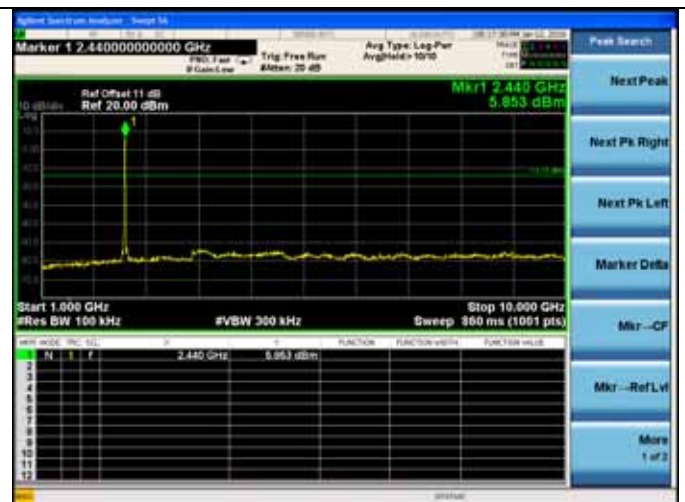
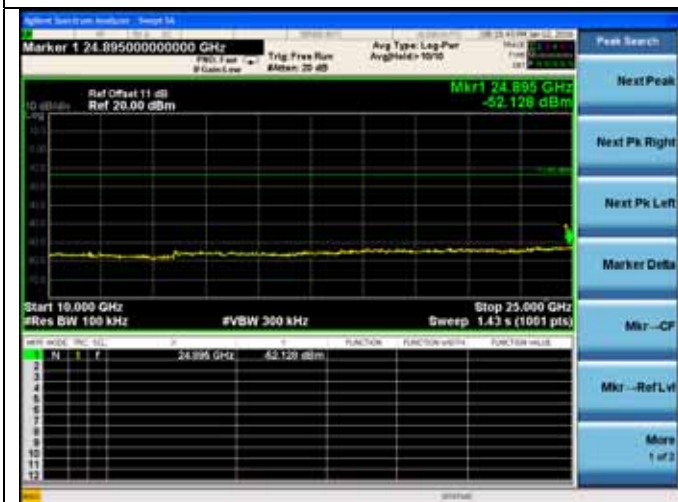
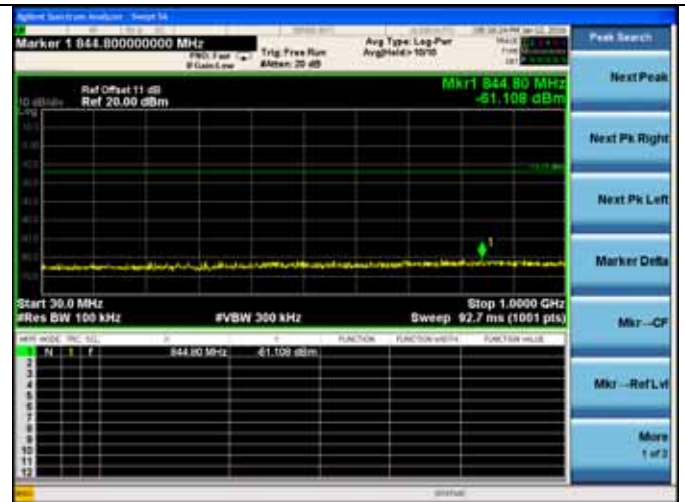
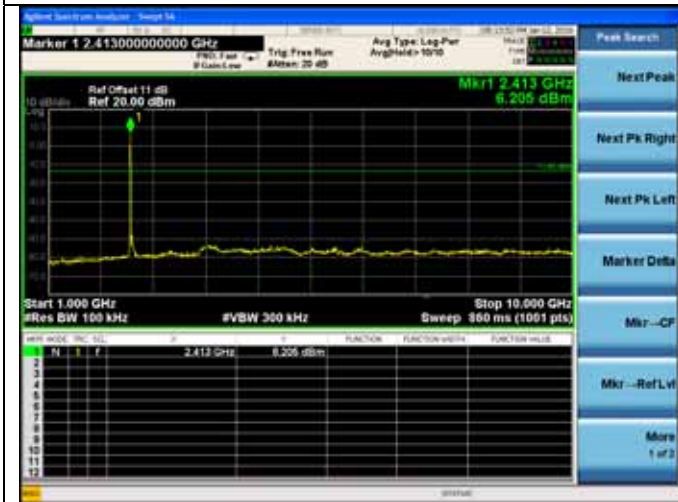


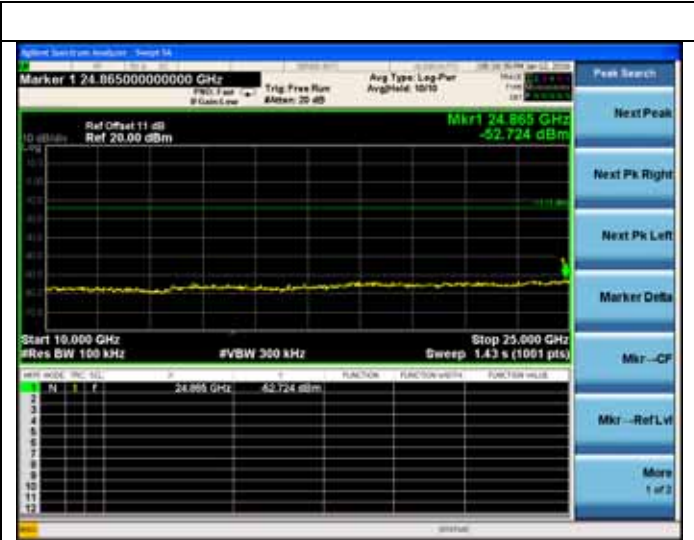
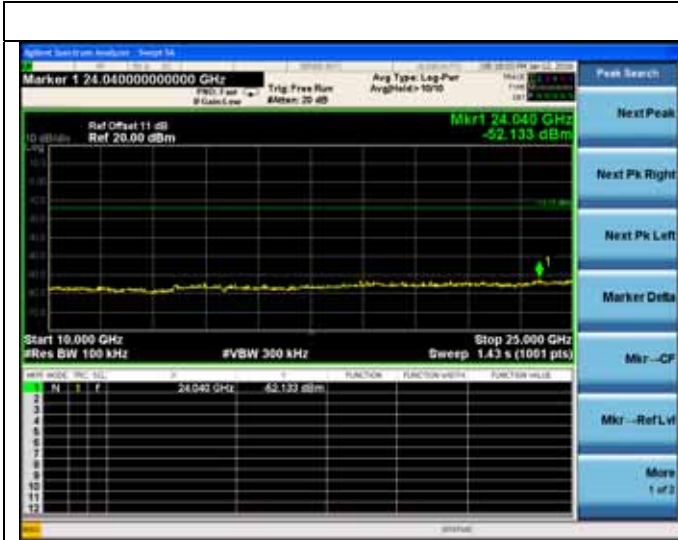
ANT2:

Test Mode: IEEE 802.11b
 Test CH1: 2412MHz

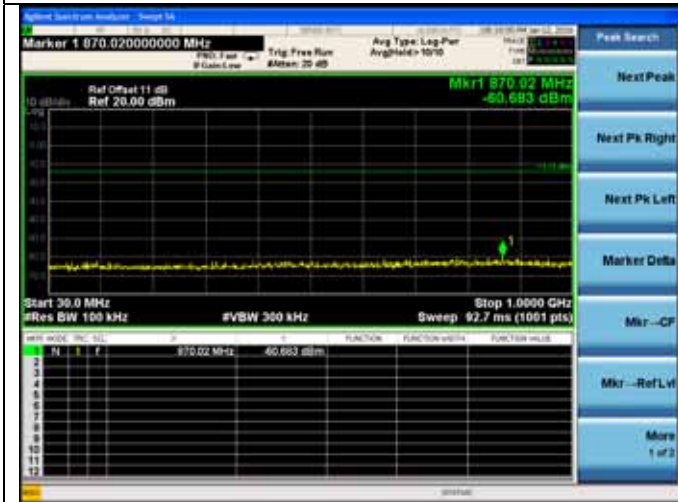


Test CH6: 2437MHz

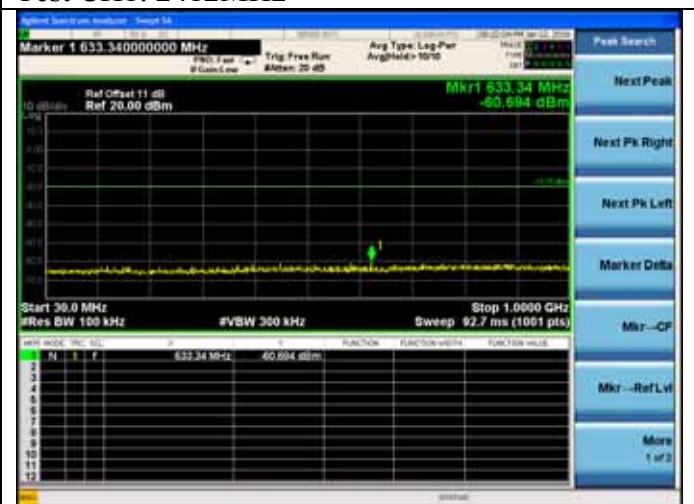
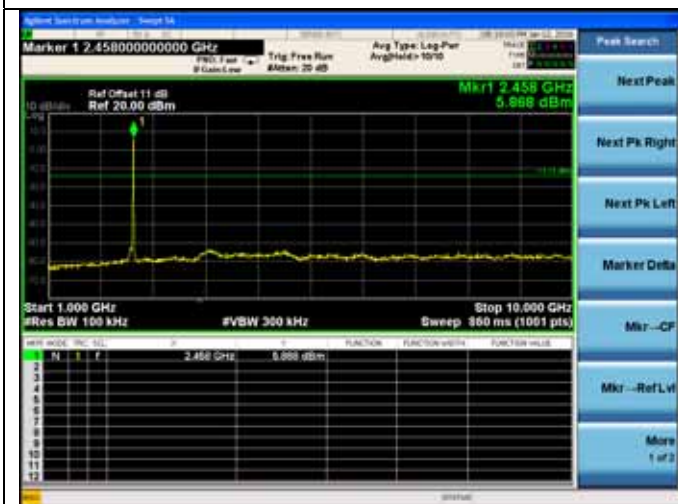




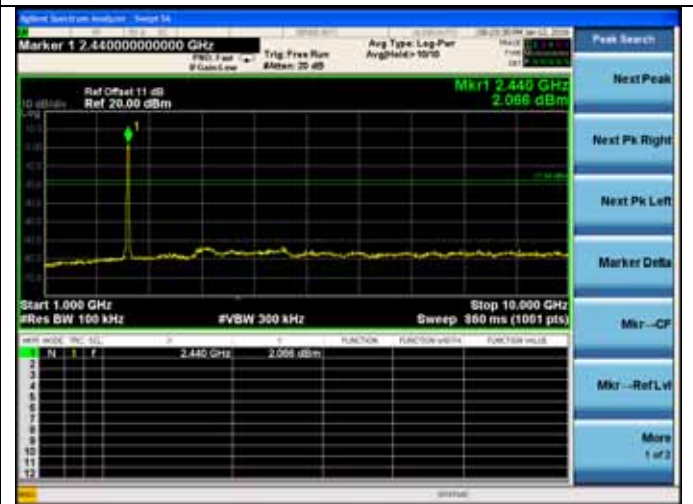
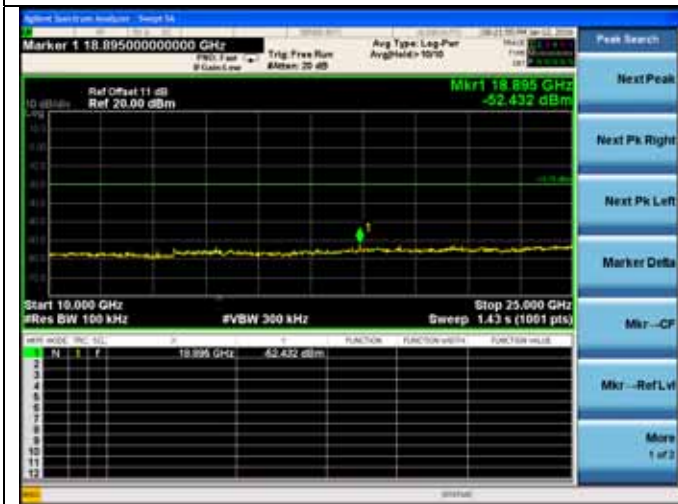
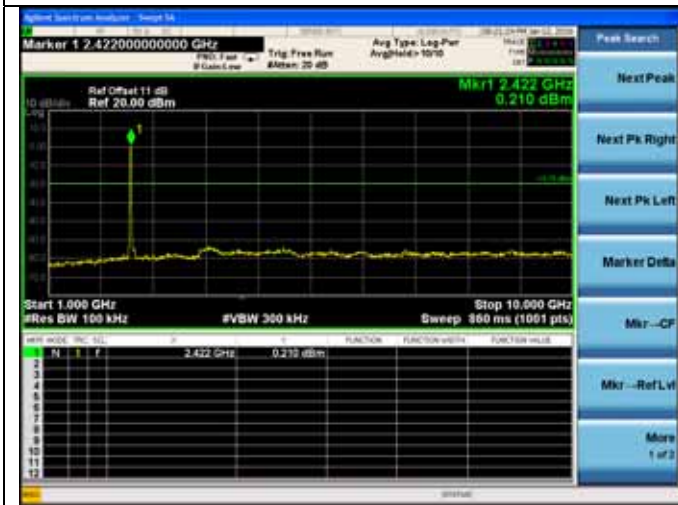
Test CH11: 2462MHz



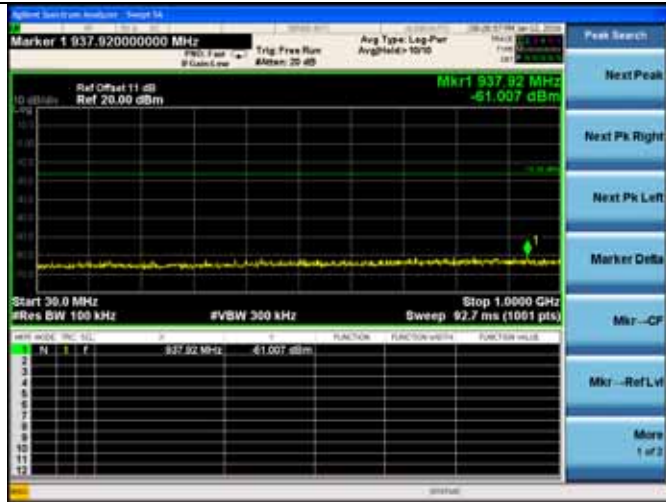
Test Mode: IEEE 802.11g
 Test CH1: 2412MHz



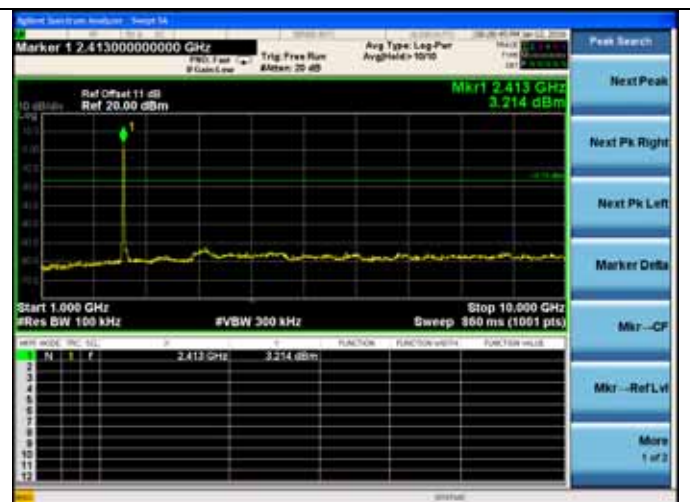
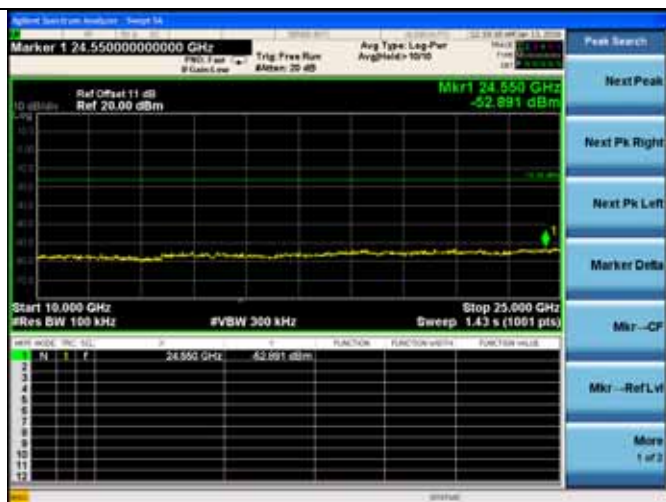
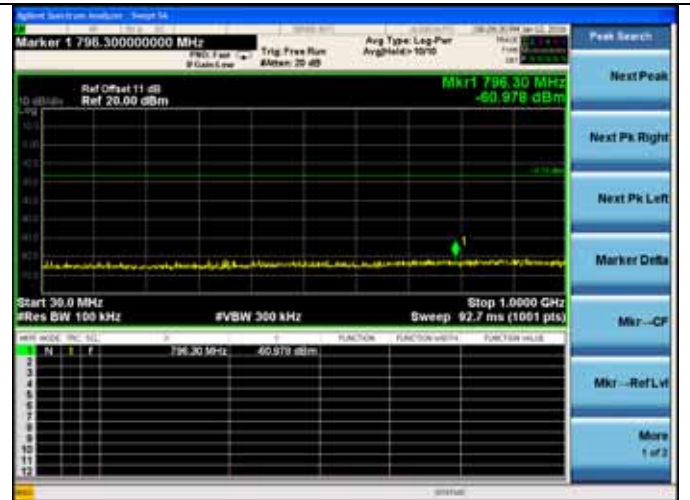
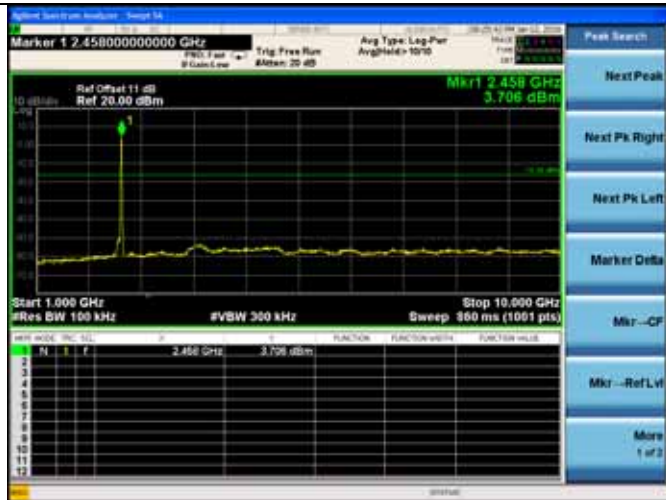
Test CH6: 2437MHz

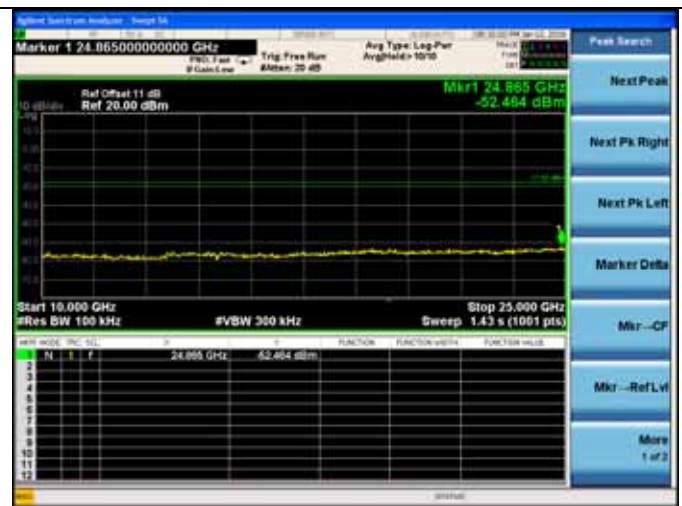
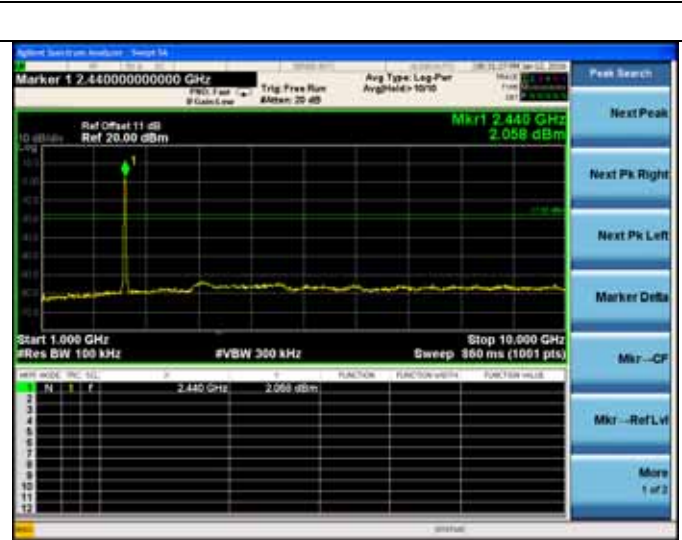


Test CH11: 2462MHz



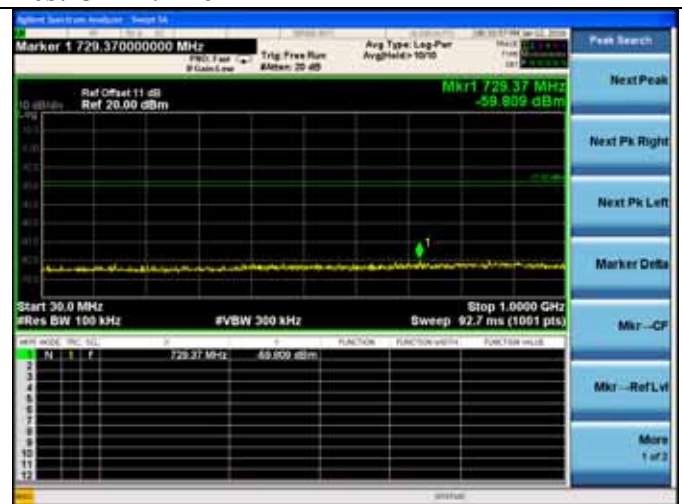
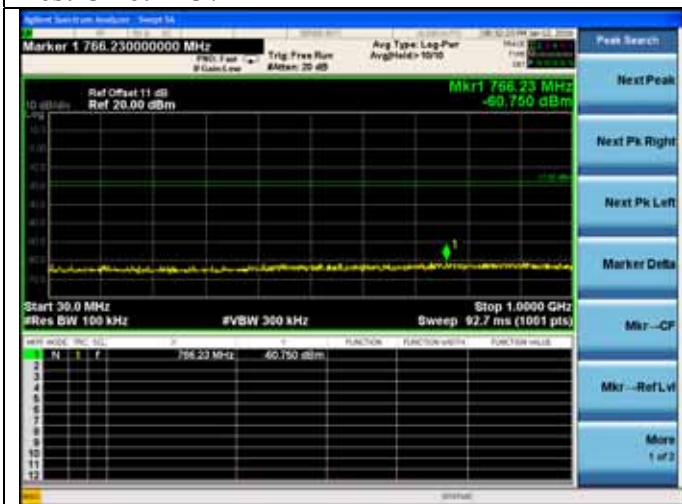
Test Mode: IEEE 802.11n HT20
 Test CH1: 2412MHz



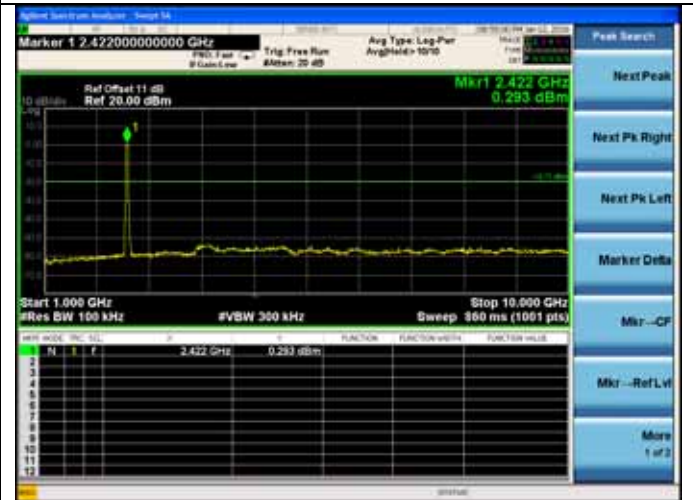
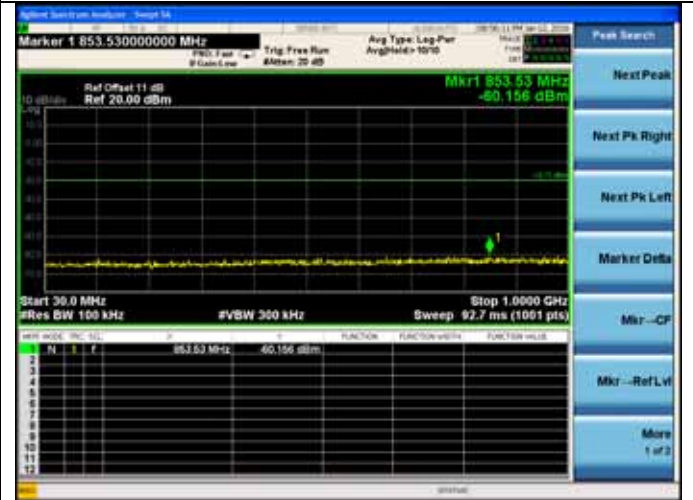
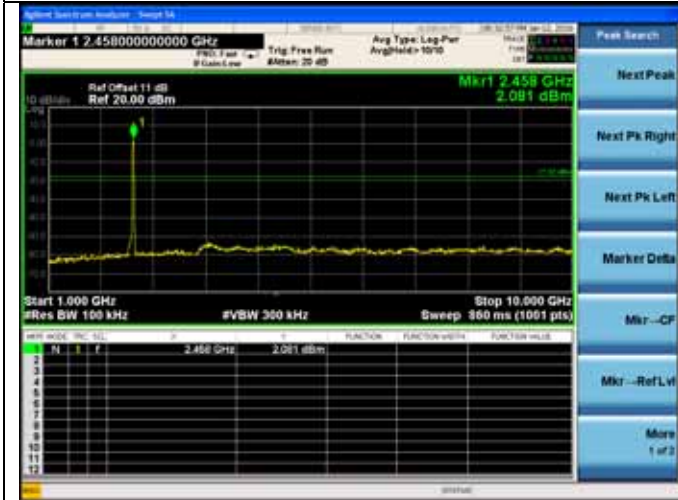


Test CH6: 2437MHz

Test CH11: 2462MHz



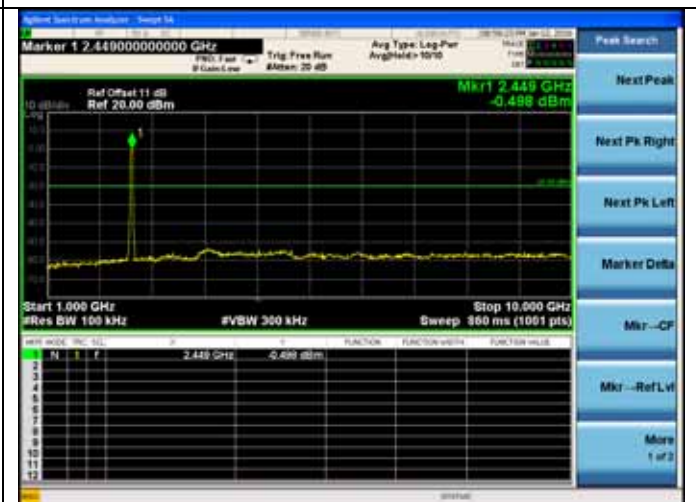
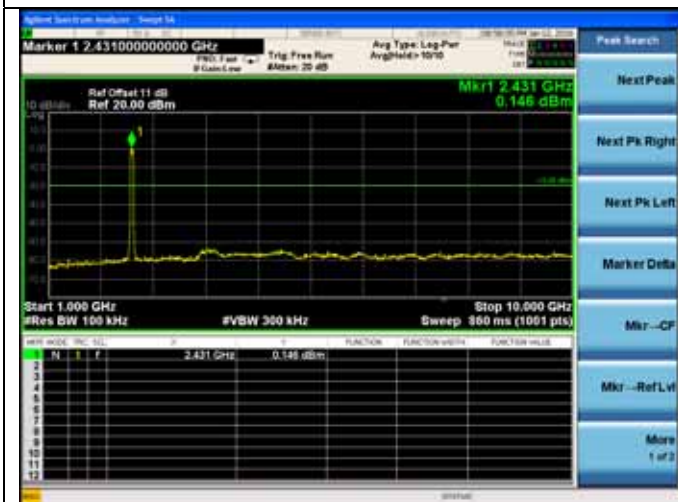
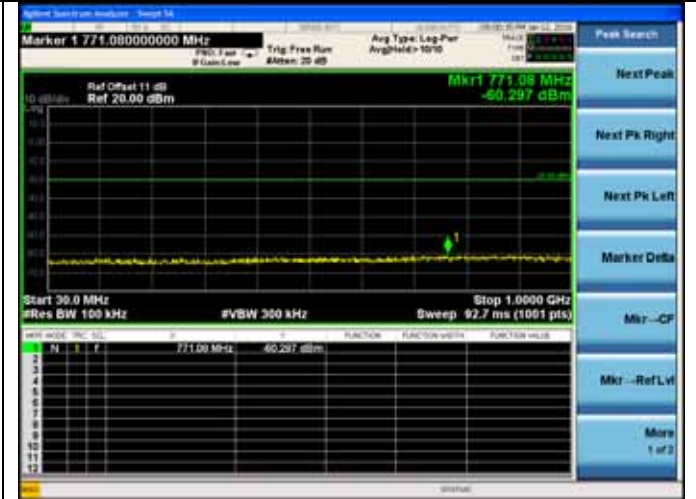
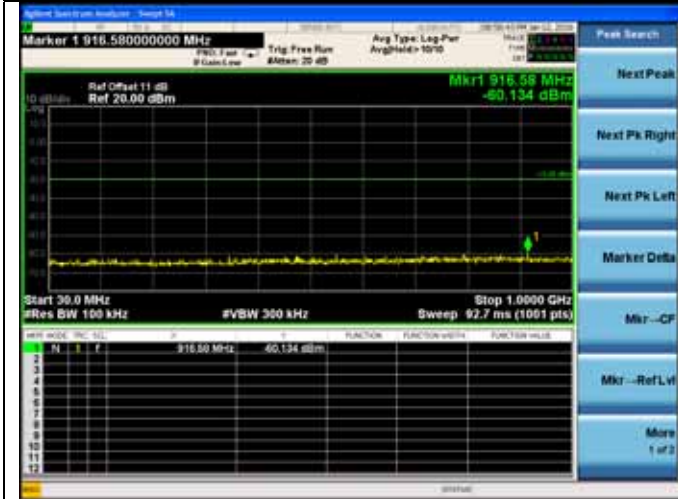
Test Mode: IEEE 802.11n HT40
 Test CH3: 2422MHz





Test CH6: 2437MHz

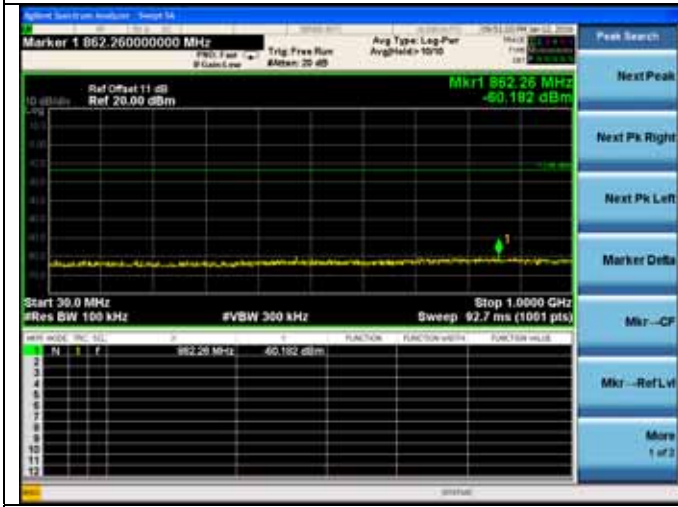
Test CH9: 2452MHz



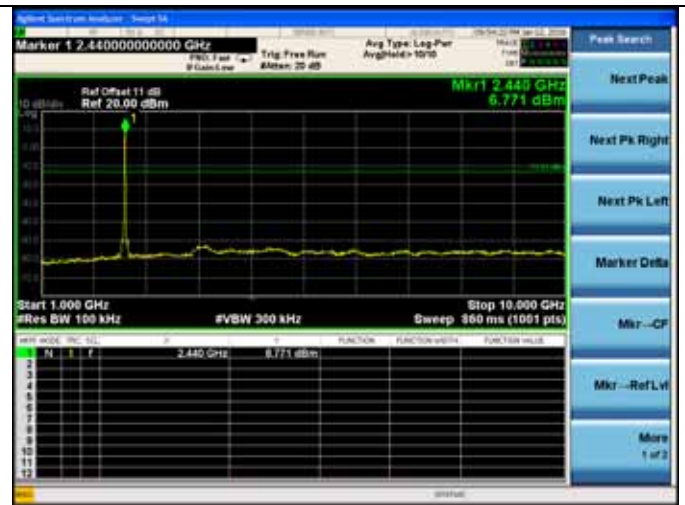
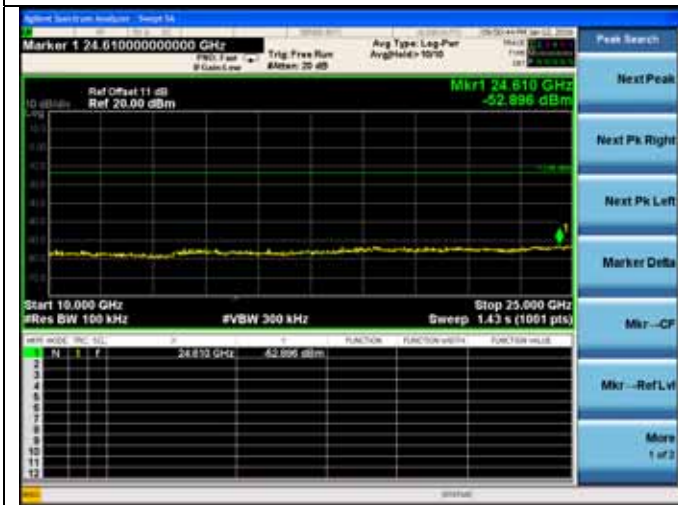
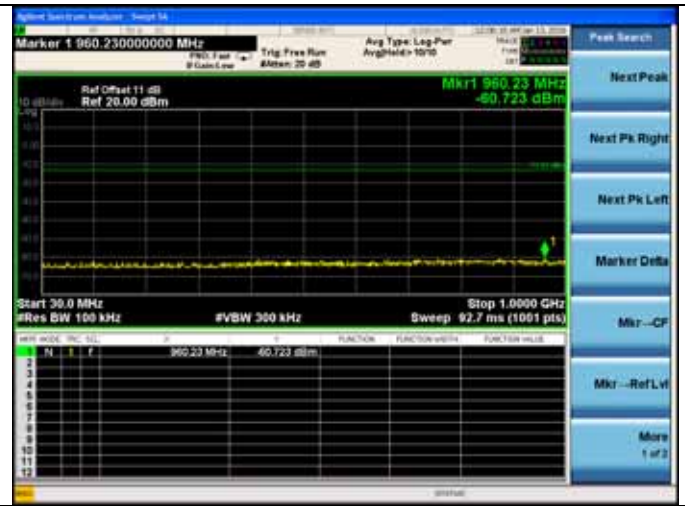
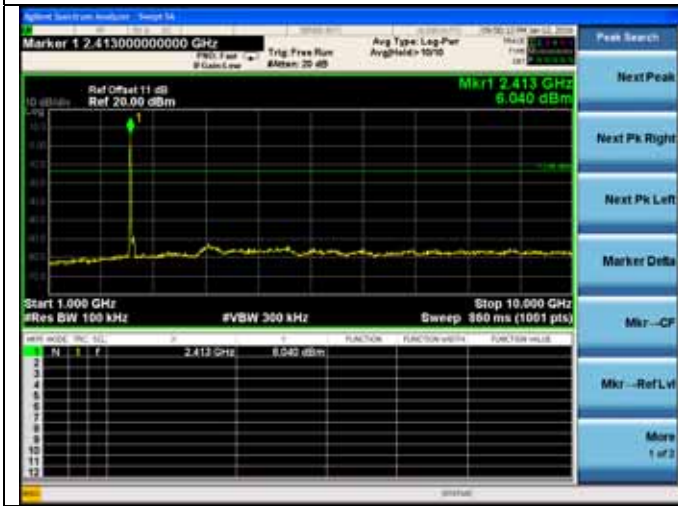


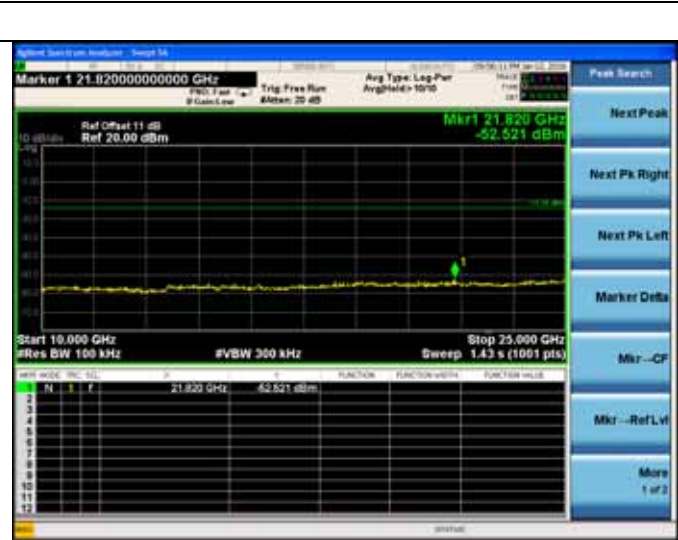
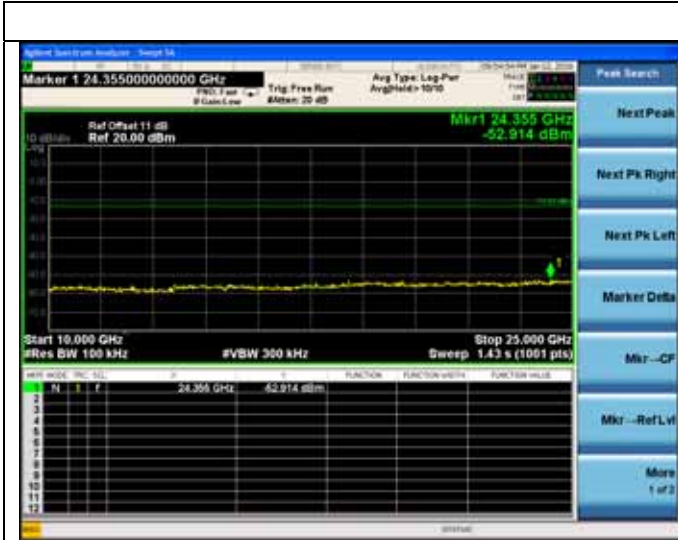
ANT3:

Test Mode: IEEE 802.11b
 Test CH1: 2412MHz

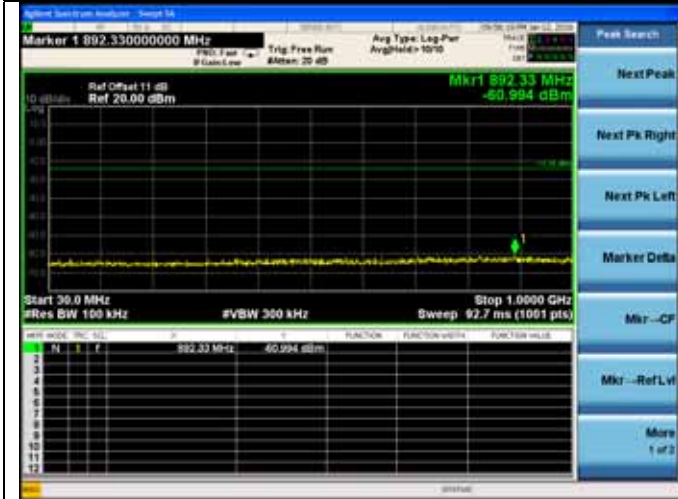


Test CH6: 2437MHz

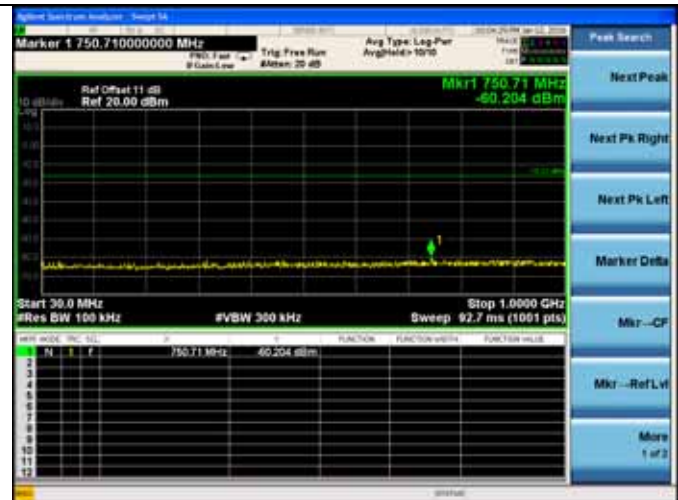




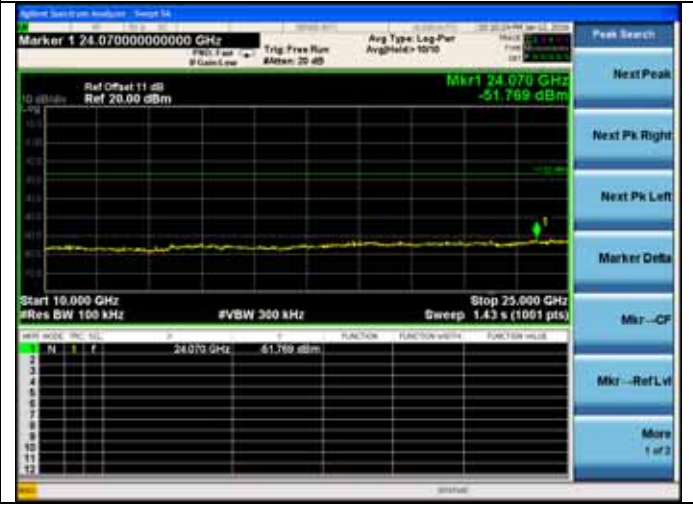
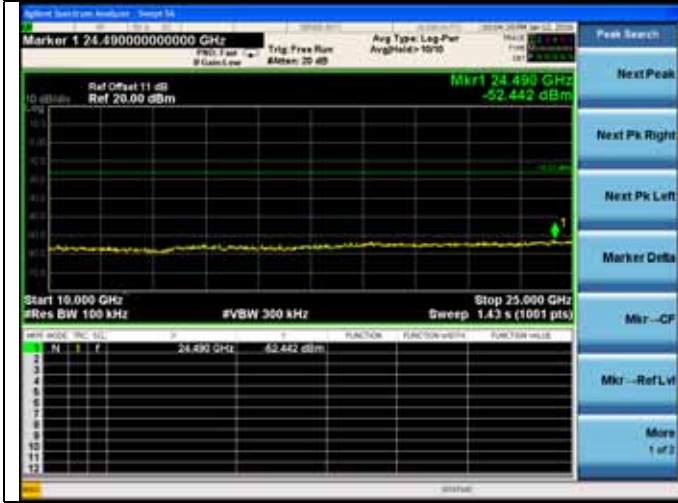
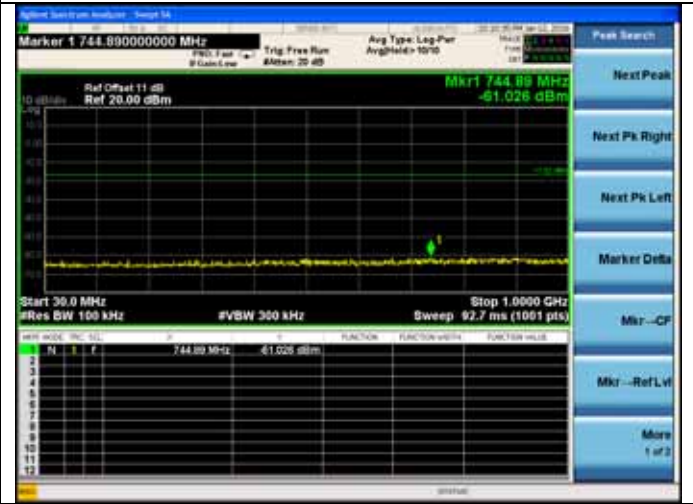
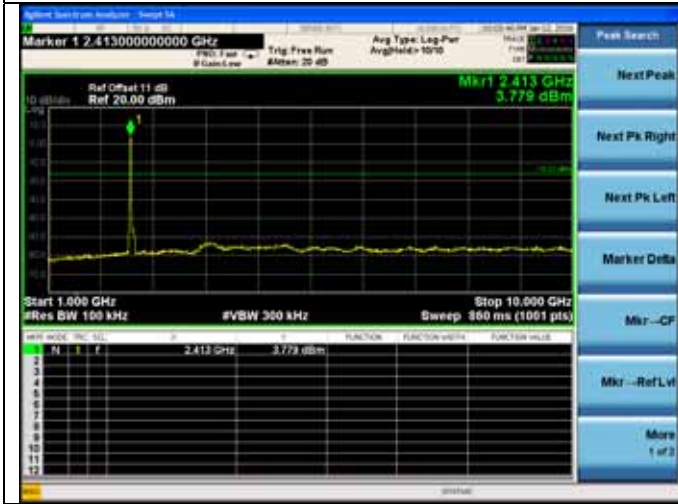
Test CH11: 2462MHz



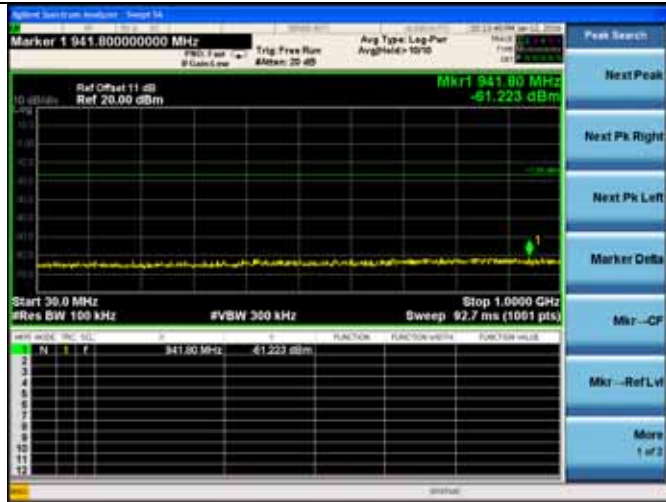
Test Mode: IEEE 802.11g
 Test CH1: 2412MHz



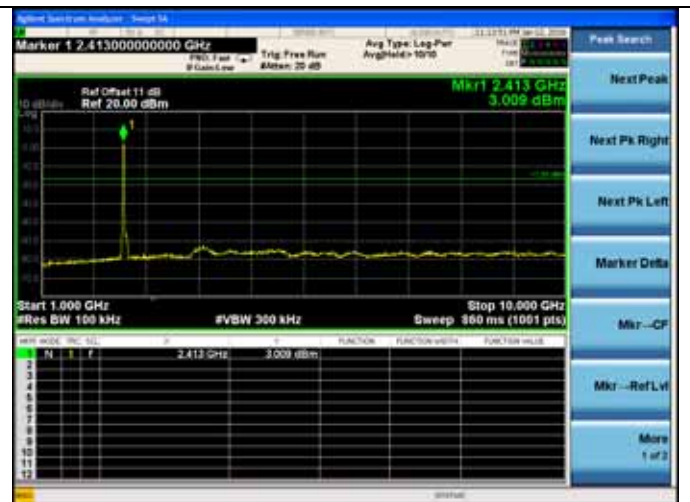
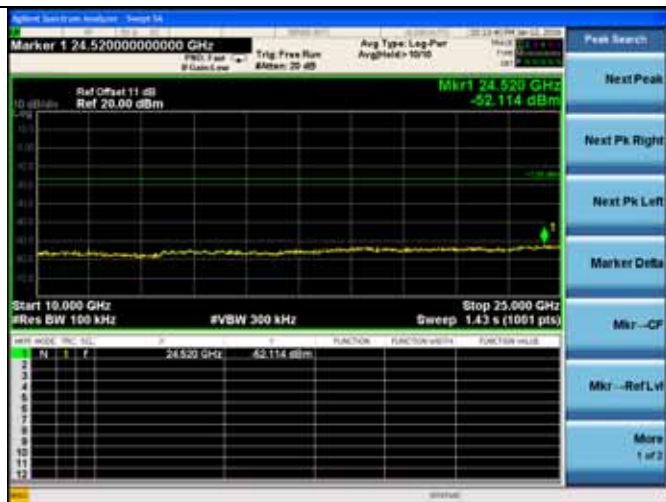
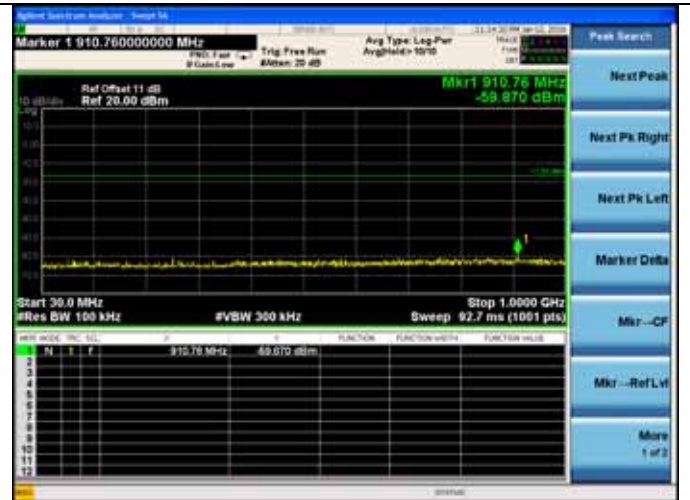
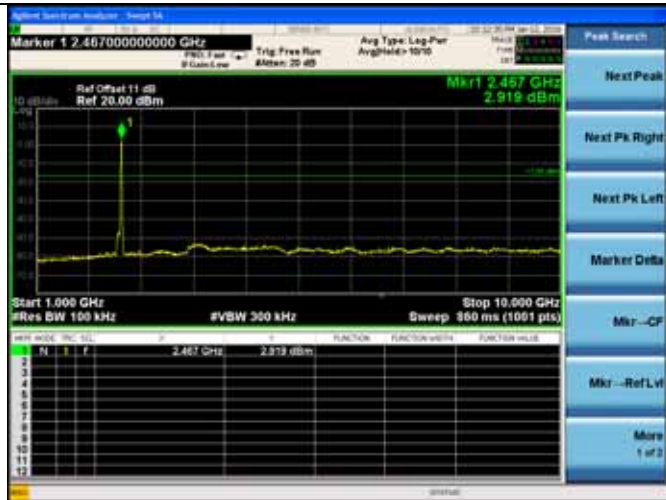
Test CH6: 2437MHz

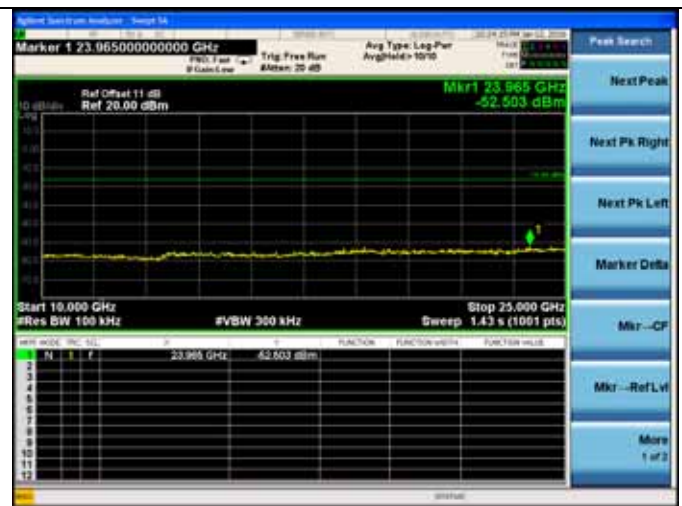
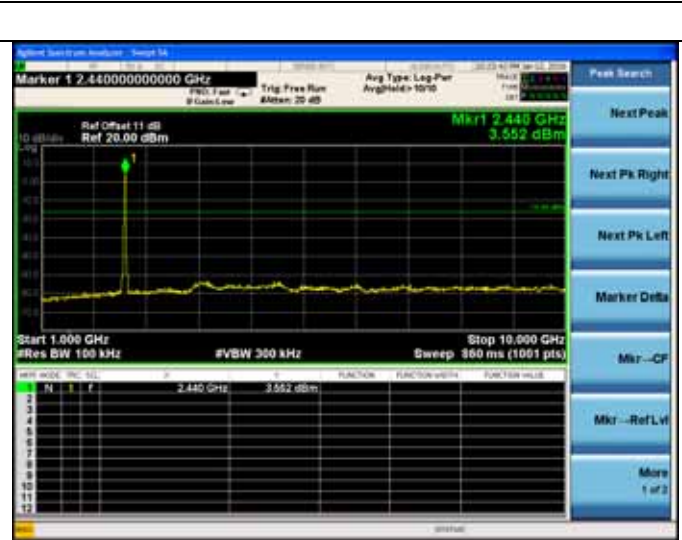
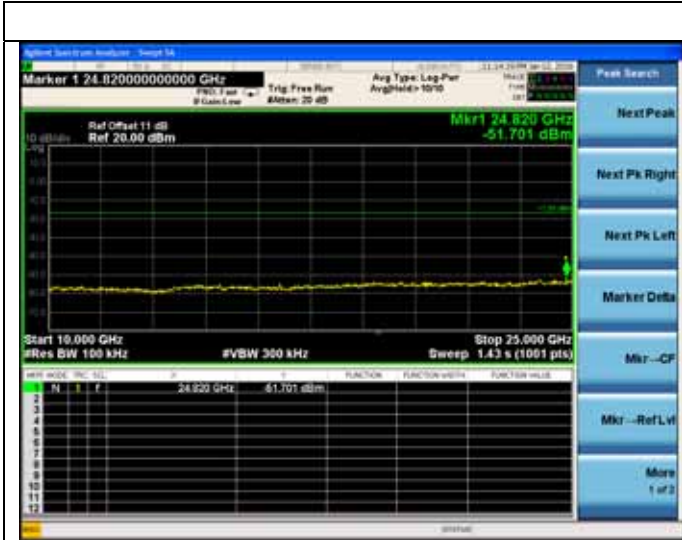


Test CH11: 2462MHz



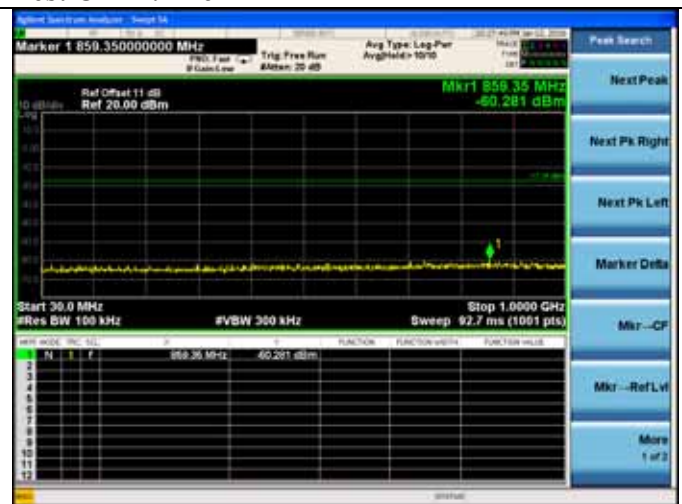
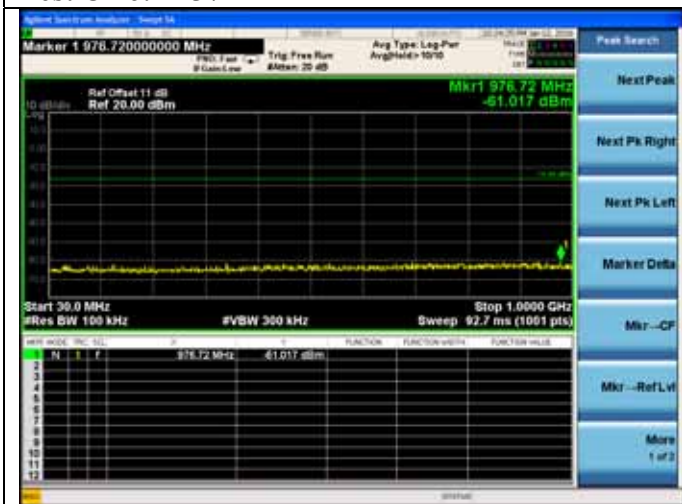
Test Mode: IEEE 802.11n HT20
 Test CH1: 2412MHz



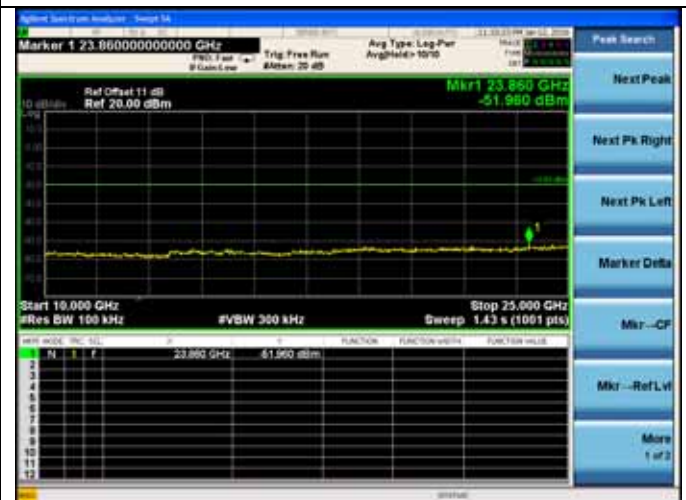
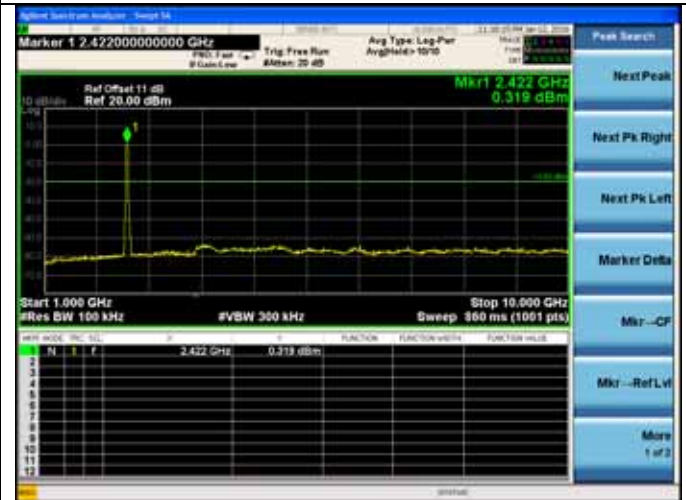
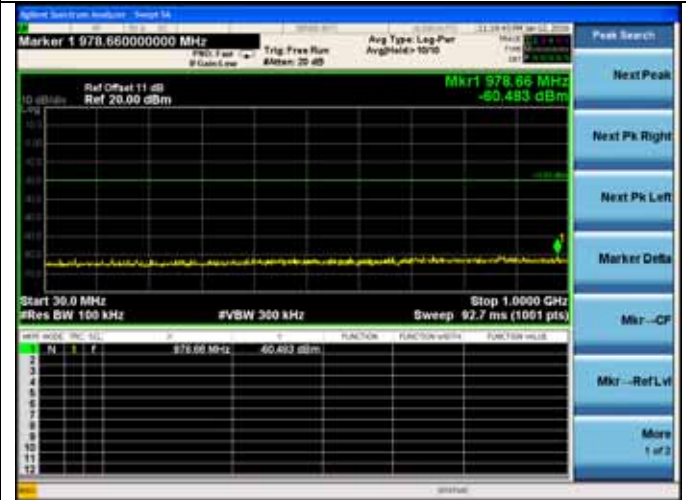
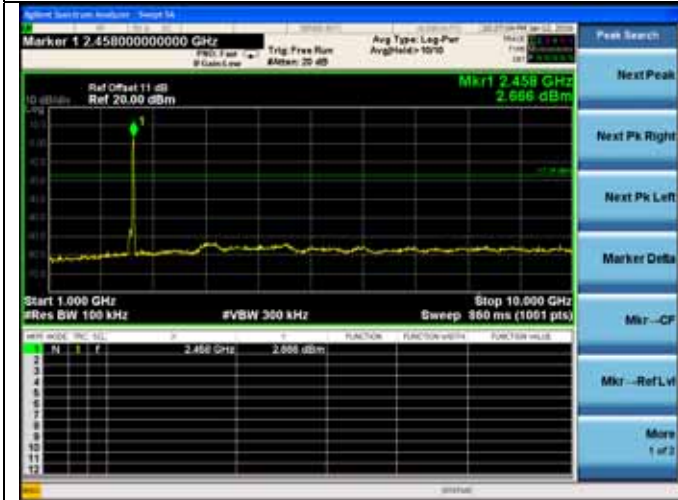


Test CH6: 2437MHz

Test CH11: 2462MHz



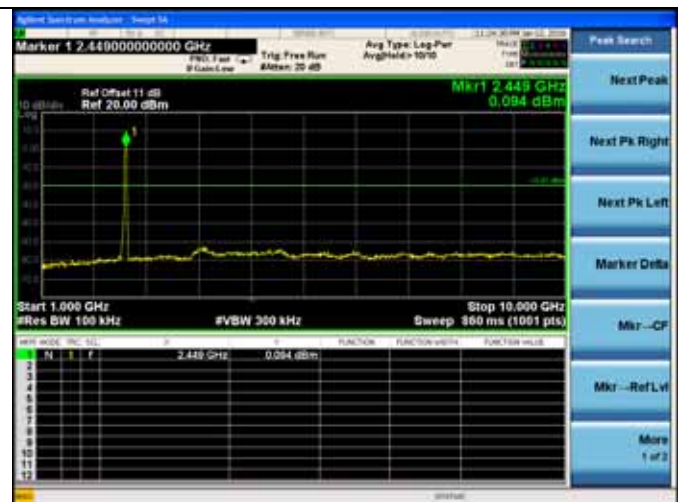
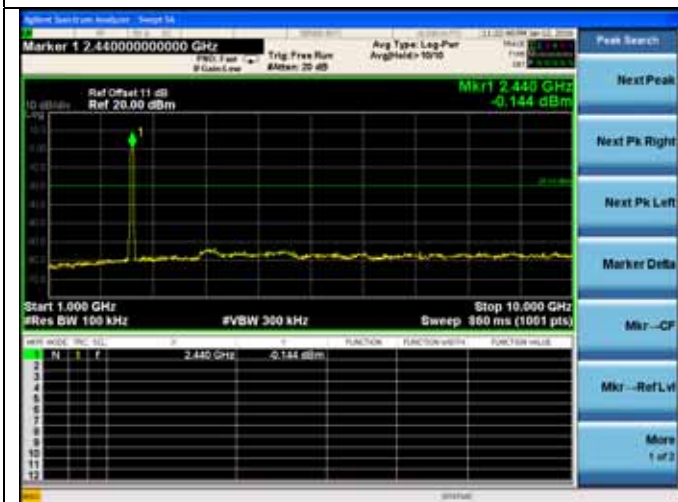
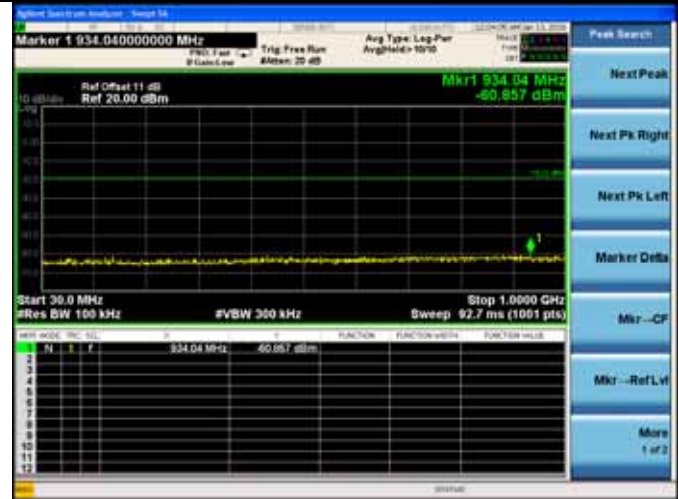
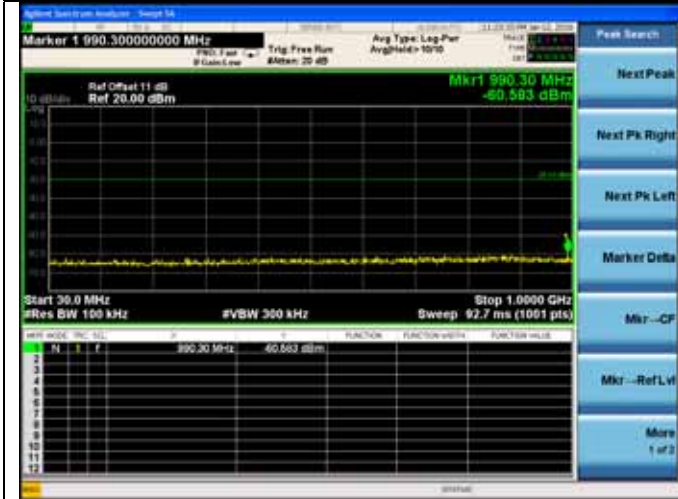
Test Mode: IEEE 802.11n HT40
 Test CH3: 2422MHz





Test CH6: 2437MHz

Test CH9: 2452MHz





6. BAND EDGE COMPLIANCE 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.	Amp	HP	8449B	3008A02495	Apr.28,15	1 Year
3.	Horn Antenna	ETC	MCTD 1209	DRH15F03007	Feb.03,15	1 Year
4.	HF Cable	Hubersuhner	Sucoflex104	274094/4	Apr.28,15	1 Year

6.2. Limit

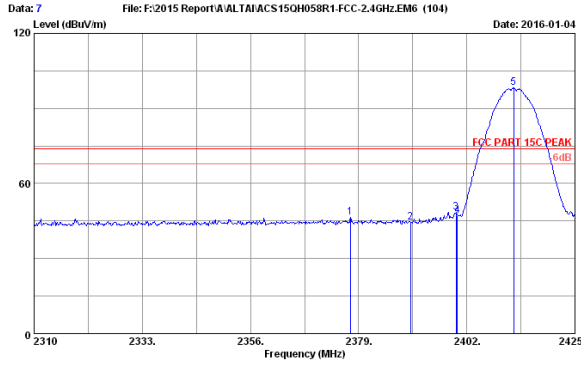
All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

6.3. Test Produce

1. The EUT is placed on a turntable, which is 1.5m 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

6.4. Test Results

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

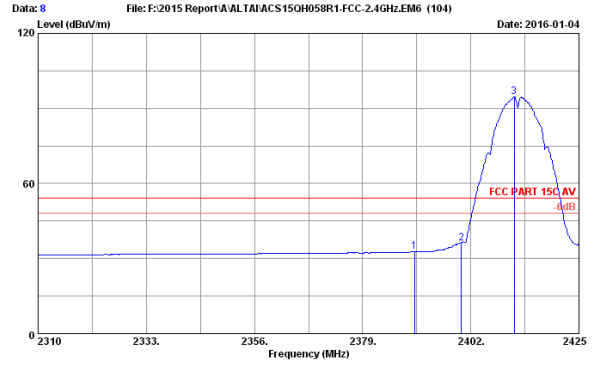


File: F:\2015 Report\A\ALTAI\ACS15QH058R1-FCC-2.4GHZEM6 (104) Date: 2016-01-04

Site no. : 3m Chamber Data no. : 7
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11b 2412MHz Tx
 WA3311NAC-C

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	2377.275	27.95	7.28	36.63	47.77	46.37	74.00	27.63	Peak
2	2390.000	27.98	7.28	36.62	45.84	44.48	74.00	29.52	Peak
3	2399.700	28.00	7.32	36.62	49.88	48.58	74.00	25.42	Peak
4	2400.000	28.00	7.32	36.62	48.39	47.09	74.00	26.91	Peak
5	2412.005	28.02	7.35	36.62	99.44	98.19	74.00	-24.19	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.

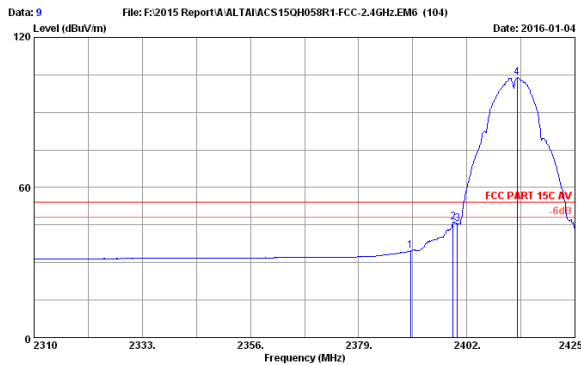


File: F:\2015 Report\A\ALTAI\ACS15QH058R1-FCC-2.4GHZEM6 (104) Date: 2016-01-04

Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11b 2412MHz Tx
 WA3311NAC-C

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	2390.000	27.98	7.28	36.62	33.97	32.61	54.00	21.39	Average
2	2400.000	28.00	7.32	36.62	37.55	36.25	54.00	17.75	Average
3	2411.200	28.02	7.35	36.62	95.82	94.57	54.00	-40.57	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.

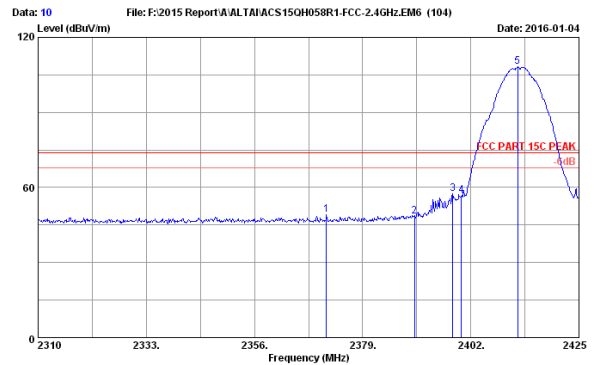


File: F:\2015 Report\A\ALTAI\ACS15QH058R1-FCC-2.4GHZEM6 (104) Date: 2016-01-04

Site no. : 3m Chamber Data no. : 9
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11b 2412MHz Tx
 WA3311NAC-C

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	2390.000	27.98	7.28	36.62	35.98	34.62	54.00	19.38	Average
2	2399.125	28.00	7.32	36.62	47.46	46.16	54.00	7.84	Average
3	2400.000	28.00	7.32	36.62	46.75	45.45	54.00	8.55	Average
4	2412.695	28.03	7.35	36.61	105.22	103.99	54.00	-49.99	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.

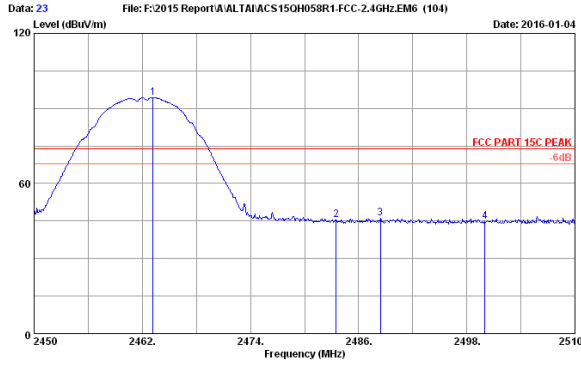


File: F:\2015 Report\A\ALTAI\ACS15QH058R1-FCC-2.4GHZEM6 (104) Date: 2016-01-04

Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11b 2412MHz Tx
 WA3311NAC-C

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	2371.295	27.94	7.24	36.63	50.46	49.01	74.00	24.99	Peak
2	2390.000	27.98	7.28	36.62	49.87	48.51	74.00	25.49	Peak
3	2398.205	28.00	7.32	36.62	58.65	57.35	74.00	16.65	Peak
4	2400.000	28.00	7.32	36.62	58.16	56.86	74.00	17.14	Peak
5	2412.005	28.02	7.35	36.62	109.40	108.15	74.00	-34.15	Peak

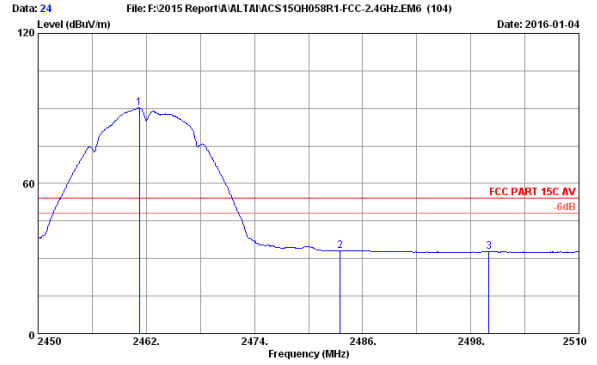
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 23
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11b 2462MHz Tx
 WA3311NAC-C

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	2463.200	28.13	7.43	36.59	95.39	94.36	74.00	-20.36	Peak
2	2483.500	28.17	7.51	36.59	46.41	45.50	74.00	28.50	Peak
3	2488.400	28.18	7.51	36.58	46.91	46.02	74.00	27.98	Peak
4	2500.000	28.20	7.51	36.58	45.52	44.65	74.00	29.35	Peak

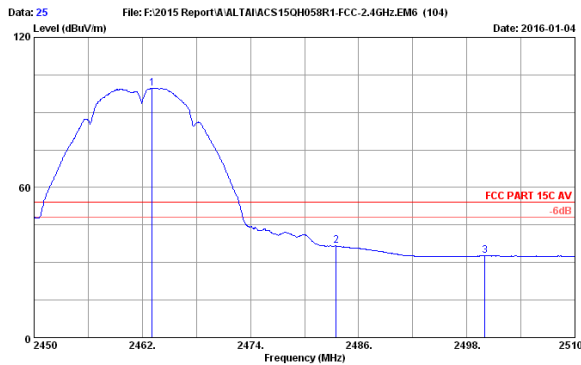
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11b 2462MHz Tx
 WA3311NAC-C

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	2461.220	28.12	7.43	36.60	91.23	90.18	54.00	-36.18	Average
2	2483.500	28.17	7.51	36.59	34.01	33.10	54.00	20.90	Average
3	2500.000	28.20	7.51	36.58	33.54	32.67	54.00	21.33	Average

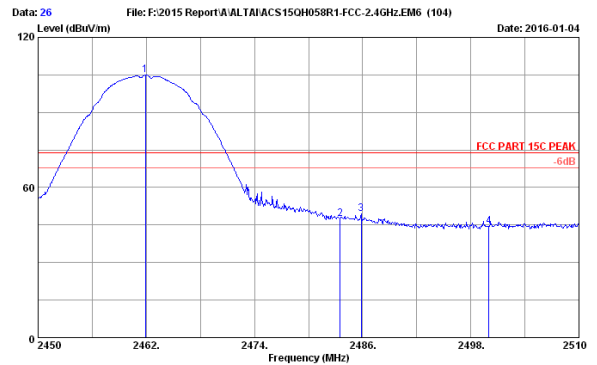
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 25
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11b 2462MHz Tx
 WA3311NAC-C

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	2463.080	28.13	7.43	36.59	100.72	99.69	54.00	-45.69	Peak
2	2483.500	28.17	7.51	36.59	37.60	36.69	54.00	17.31	Peak
3	2500.000	28.20	7.51	36.58	33.52	32.65	54.00	21.35	Peak

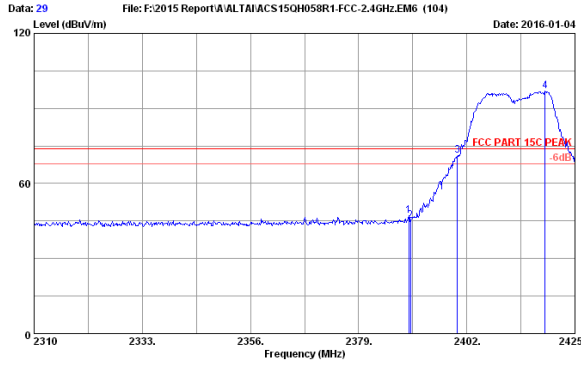
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11b 2462MHz Tx
 WA3311NAC-C

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	2461.880	28.12	7.43	36.60	106.04	104.99	74.00	-30.99	Peak
2	2483.500	28.17	7.51	36.59	48.45	47.54	74.00	26.46	Peak
3	2485.820	28.17	7.51	36.59	50.32	49.41	74.00	24.59	Peak
4	2500.000	28.20	7.51	36.58	45.46	44.59	74.00	29.41	Peak

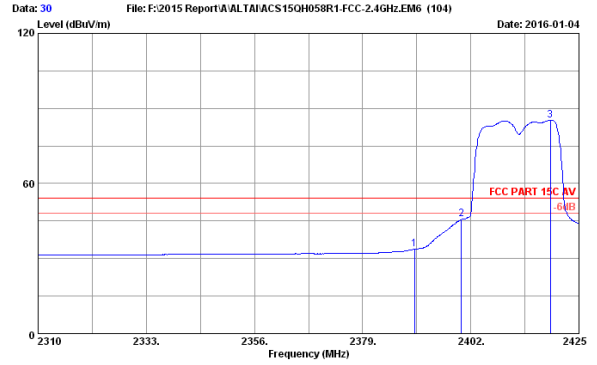
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 29
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2412MHz Tx
 WA3311NAC-C

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	2389.695	27.98	7.28	36.62	48.34	46.98	74.00	27.02	Peak
2	2390.000	27.98	7.28	36.62	46.45	45.09	74.00	28.91	Peak
3	2400.000	28.00	7.32	36.62	72.47	71.17	74.00	2.83	Peak
4	2418.675	28.04	7.35	36.61	98.11	96.89	74.00	-22.89	Peak

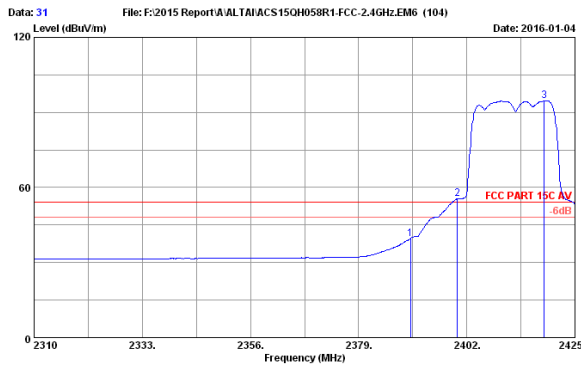
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2412MHz Tx
 WA3311NAC-C

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	2390.000	27.98	7.28	36.62	35.09	33.73	54.00	20.27	Average
2	2400.000	28.00	7.32	36.62	47.06	45.76	54.00	8.24	Average
3	2418.905	28.04	7.35	36.61	86.55	85.33	54.00	-31.33	Average

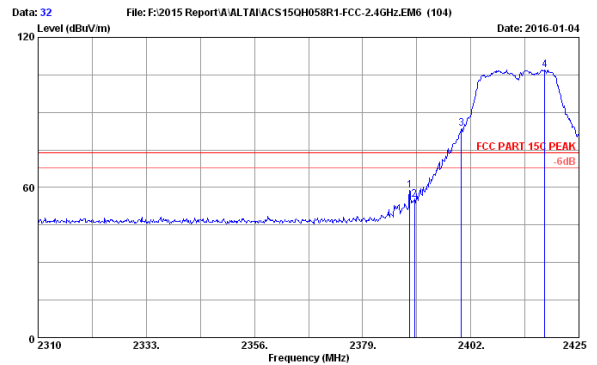
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 31
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2412MHz Tx
 WA3311NAC-C

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	2390.000	27.98	7.28	36.62	40.94	39.58	54.00	14.42	Average
2	2400.000	28.00	7.32	36.62	56.86	55.56	54.00	-1.56	Average
3	2418.445	28.04	7.35	36.61	95.78	94.56	54.00	-40.56	Average

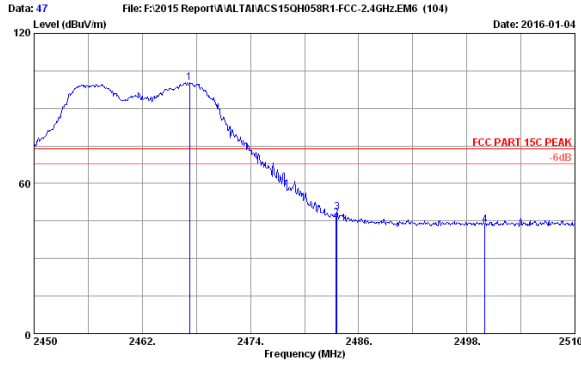
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 32
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2412MHz Tx
 WA3311NAC-C

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	2389.005	27.98	7.28	36.62	60.16	58.80	74.00	15.20	Peak
2	2390.000	27.98	7.28	36.62	56.65	55.29	74.00	18.71	Peak
3	2400.000	28.00	7.32	36.62	84.99	83.69	74.00	-9.69	Peak
4	2417.755	28.04	7.35	36.61	108.27	107.05	74.00	-33.05	Peak

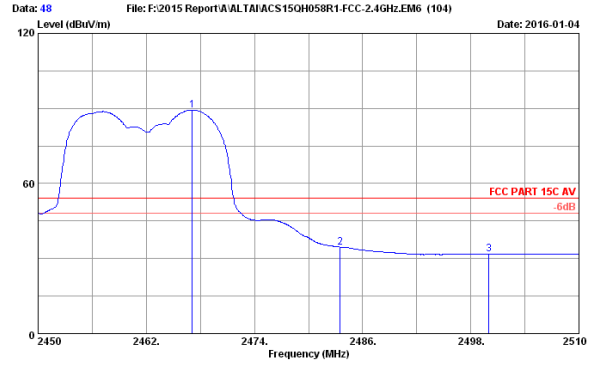
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 47
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2462MHz Tx
 WA3311NAC-C

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	2467.220	28.13	7.47	36.59	101.33	100.34	74.00	-26.34	Peak
2	2483.500	28.17	7.51	36.59	47.18	46.27	74.00	27.73	Peak
3	2483.600	28.17	7.51	36.59	49.48	48.57	74.00	25.43	Peak
4	2500.000	28.20	7.51	36.58	44.40	43.53	74.00	30.47	Peak

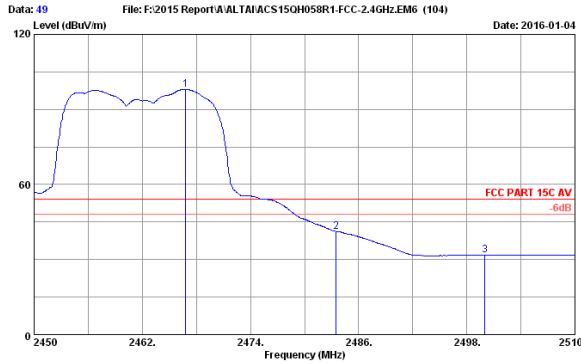
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 48
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2462MHz Tx
 WA3311NAC-C

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	2467.100	28.13	7.47	36.59	90.35	89.36	54.00	-35.36	Average
2	2483.500	28.17	7.51	36.59	35.50	34.59	54.00	19.41	Average
3	2500.000	28.20	7.51	36.58	32.61	31.74	54.00	22.26	Average

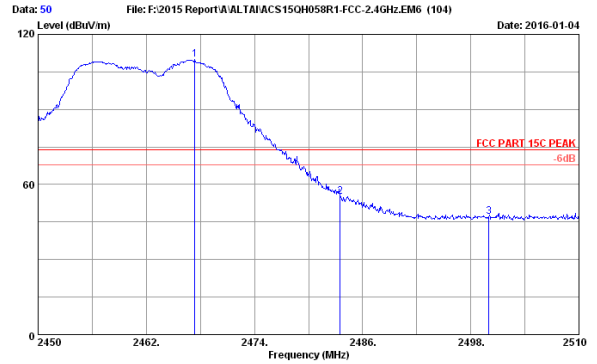
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 49
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2462MHz Tx
 WA3311NAC-C

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	2466.800	28.13	7.47	36.59	99.04	98.05	54.00	-44.05	Average
2	2483.500	28.17	7.51	36.59	42.18	41.27	54.00	12.73	Average
3	2500.000	28.20	7.51	36.58	32.62	31.75	54.00	22.25	Average

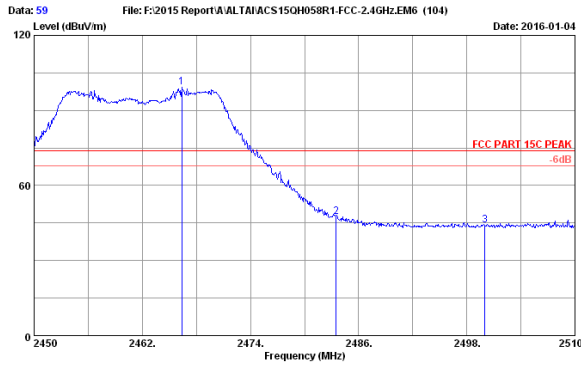
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 50
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2462MHz Tx
 WA3311NAC-C

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	2467.400	28.13	7.47	36.59	110.90	109.91	74.00	-35.91	Peak
2	2483.500	28.17	7.51	36.59	56.07	55.16	74.00	18.84	Peak
3	2500.000	28.20	7.51	36.58	48.03	47.16	74.00	26.84	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.

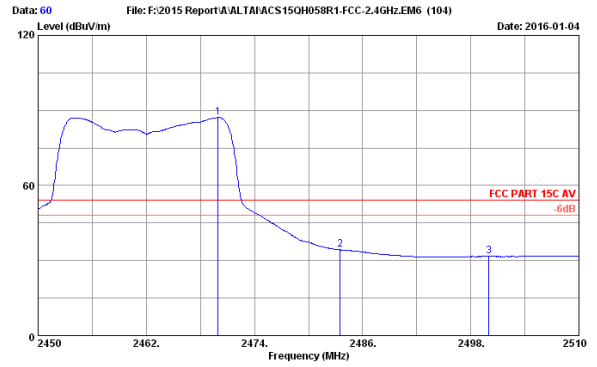


Data: 59 File: F:\2015 Report\A\ALTAI\ACS15QH058R1-FCC-2.4GHzEM6 (104) Date: 2016-01-04

Site no. : 3m Chamber Data no. : 59
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2462MHz Tx
 WA3311NAC-C

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	2466.380	28.13	7.47	36.59	100.23	99.24	74.00	-25.24	Peak
2	2483.500	28.17	7.51	36.59	48.45	47.54	74.00	26.46	Peak
3	2500.000	28.20	7.51	36.58	44.91	44.04	74.00	29.96	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.

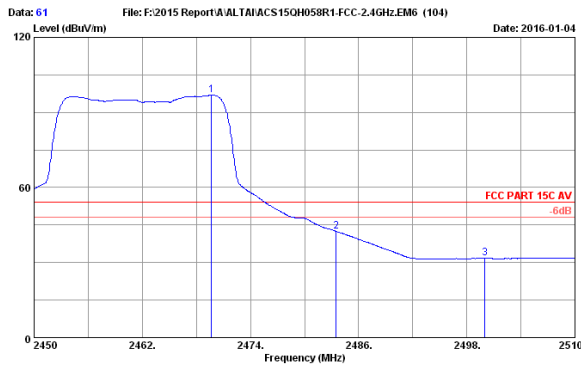


Data: 60 File: F:\2015 Report\A\ALTAI\ACS15QH058R1-FCC-2.4GHzEM6 (104) Date: 2016-01-04

Site no. : 3m Chamber Data no. : 60
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2462MHz Tx
 WA3311NAC-C

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	2469.980	28.14	7.47	36.59	88.12	87.14	54.00	-33.14	Average
2	2483.500	28.17	7.51	36.59	35.22	34.31	54.00	19.69	Average
3	2500.000	28.20	7.51	36.58	32.55	31.68	54.00	22.32	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.

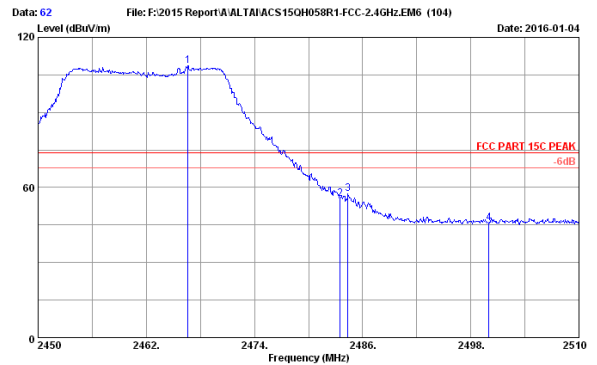


Data: 61 File: F:\2015 Report\A\ALTAI\ACS15QH058R1-FCC-2.4GHzEM6 (104) Date: 2016-01-04

Site no. : 3m Chamber Data no. : 61
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2462MHz Tx
 WA3311NAC-C

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	2469.680	28.14	7.47	36.59	97.89	96.91	54.00	-42.91	Average
2	2483.500	28.17	7.51	36.59	43.33	42.42	54.00	11.58	Average
3	2500.000	28.20	7.51	36.58	32.62	31.75	54.00	22.25	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.

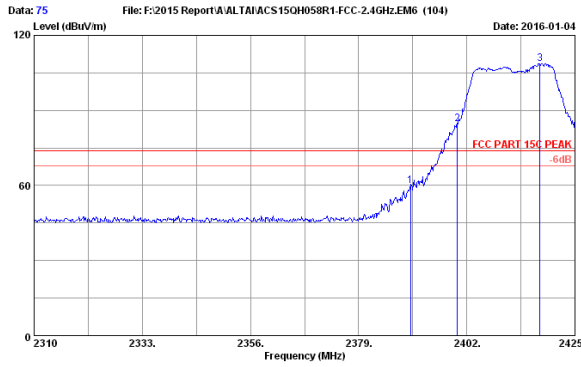


Data: 62 File: F:\2015 Report\A\ALTAI\ACS15QH058R1-FCC-2.4GHzEM6 (104) Date: 2016-01-04

Site no. : 3m Chamber Data no. : 62
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2462MHz Tx
 WA3311NAC-C

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	2466.620	28.13	7.47	36.59	109.62	108.63	74.00	-34.63	Peak
2	2483.500	28.17	7.51	36.59	56.38	55.47	74.00	18.53	Peak
3	2484.380	28.17	7.51	36.59	58.53	57.62	74.00	16.38	Peak
4	2500.000	28.20	7.51	36.58	46.78	45.91	74.00	28.09	Peak

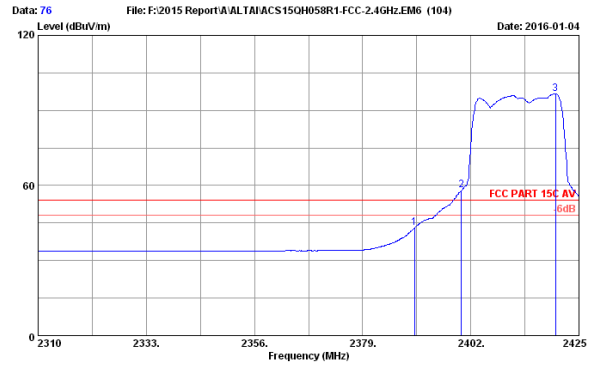
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 75
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412MHz Tx
 WA3311NAC-C

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	2390.000	27.98	7.28	36.62	61.20	59.84	74.00	14.16	Peak
2	2400.000	28.00	7.32	36.62	85.93	84.63	74.00	-10.63	Peak
3	2417.525	28.04	7.35	36.61	109.92	108.70	74.00	-34.70	Peak

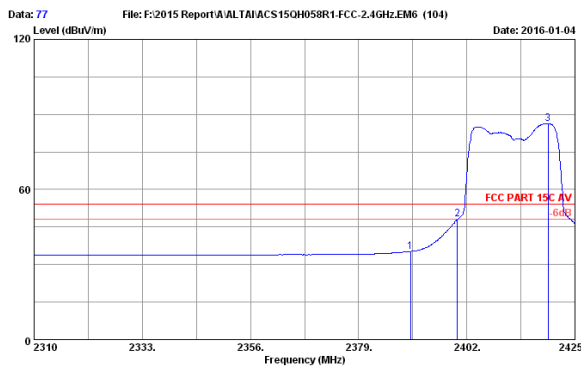
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 76
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412MHz Tx
 WA3311NAC-C

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	2390.000	27.98	7.28	36.62	44.39	43.03	54.00	10.97	Average
2	2400.000	28.00	7.32	36.62	59.44	58.14	54.00	-4.14	Average
3	2420.055	28.04	7.35	36.61	97.87	96.65	54.00	-42.65	Average

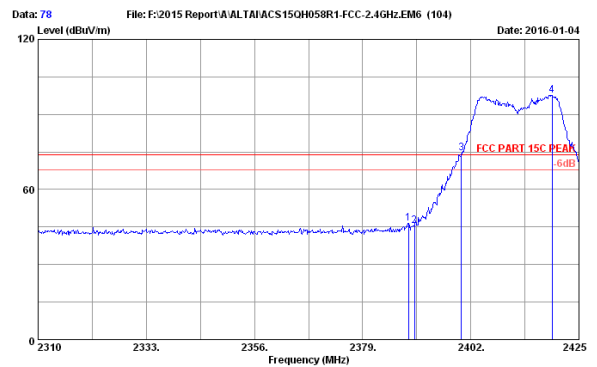
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 77
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412MHz Tx
 WA3311NAC-C

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	2390.000	27.98	7.28	36.62	36.58	35.22	54.00	18.78	Average
2	2400.000	28.00	7.32	36.62	49.33	48.03	54.00	5.97	Average
3	2419.250	28.04	7.35	36.61	87.57	86.35	54.00	-32.35	Average

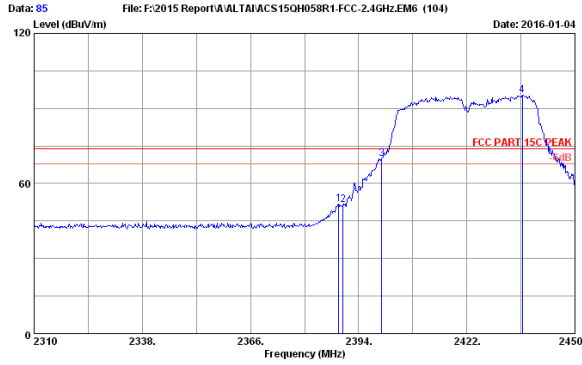
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 78
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412MHz Tx
 WA3311NAC-C

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	2388.775	27.98	7.28	36.62	47.90	46.54	74.00	27.46	Peak
2	2390.000	27.98	7.28	36.62	46.83	45.47	74.00	28.53	Peak
3	2400.000	28.00	7.32	36.62	75.88	74.58	74.00	-0.58	Peak
4	2419.250	28.04	7.35	36.61	98.88	97.66	74.00	-23.66	Peak

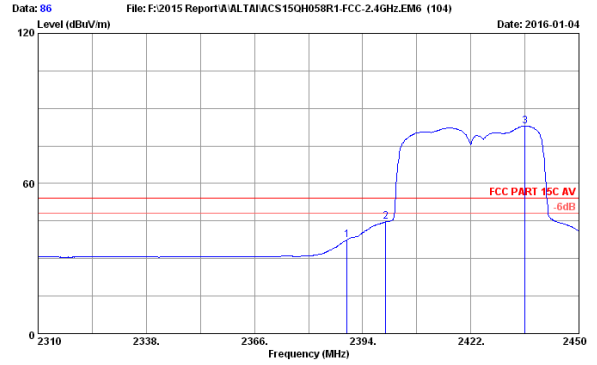
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 85
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2422MHz Tx
 WA3311NAC-C

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	2388.820	27.98	7.28	36.62	53.28	51.92	74.00	22.08	Peak
2	2390.000	27.98	7.28	36.62	52.74	51.38	74.00	22.62	Peak
3	2400.000	28.00	7.32	36.62	71.10	69.80	74.00	4.20	Peak
4	2436.420	28.07	7.39	36.61	96.36	95.21	74.00	-21.21	Peak

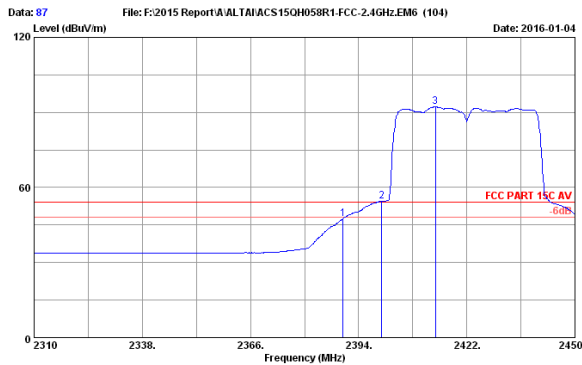
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 86
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2422MHz Tx
 WA3311NAC-C

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	2390.000	27.98	7.28	36.62	38.85	37.49	54.00	16.51	Average
2	2400.000	28.00	7.32	36.62	45.94	44.64	54.00	9.36	Average
3	2436.000	28.07	7.39	36.61	84.14	82.99	54.00	-28.99	Average

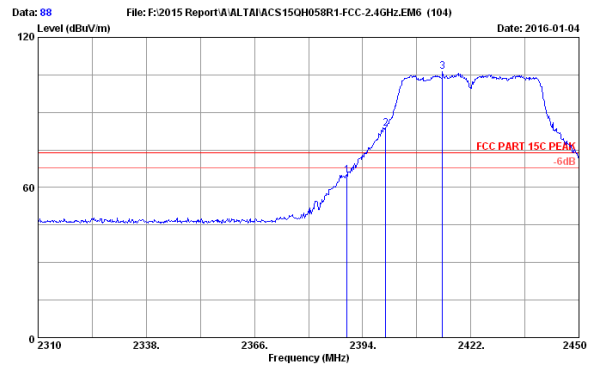
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 87
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2422MHz Tx
 WA3311NAC-C

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	2390.000	27.98	7.28	36.62	48.89	47.53	54.00	6.47	Average
2	2400.000	28.00	7.32	36.62	55.86	54.56	54.00	-0.56	Average
3	2413.880	28.03	7.35	36.61	93.45	92.22	54.00	-38.22	Average

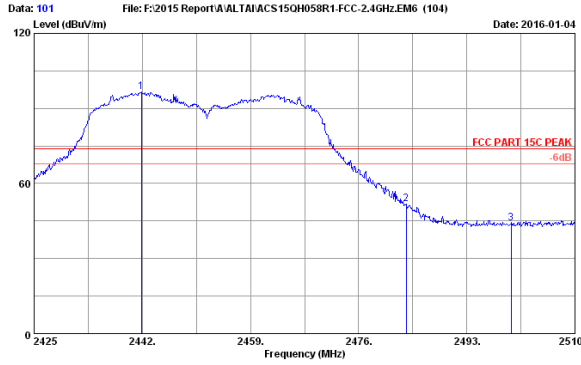
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 88
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2422MHz Tx
 WA3311NAC-C

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	2390.000	27.98	7.28	36.62	66.25	64.89	74.00	9.11	Peak
2	2400.000	28.00	7.32	36.62	84.85	83.55	74.00	-9.55	Peak
3	2414.720	28.03	7.35	36.61	107.52	106.29	74.00	-32.29	Peak

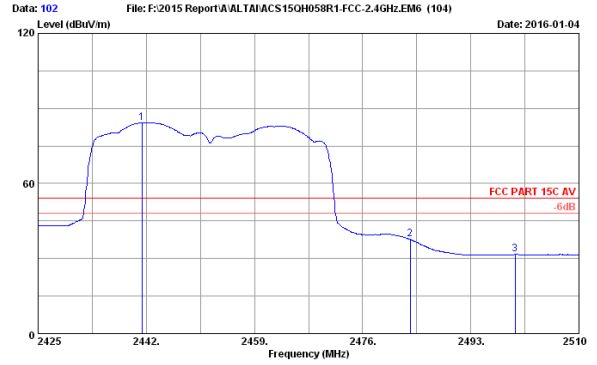
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 101
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2452MHz Tx
 WA3311NAC-C

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	2441.830	28.08	7.39	36.60	97.66	96.53	74.00	-22.53	Peak
2	2483.480	28.17	7.51	36.59	52.88	51.97	74.00	22.03	Peak
3	2500.000	28.20	7.51	36.58	44.92	44.05	74.00	29.95	Peak

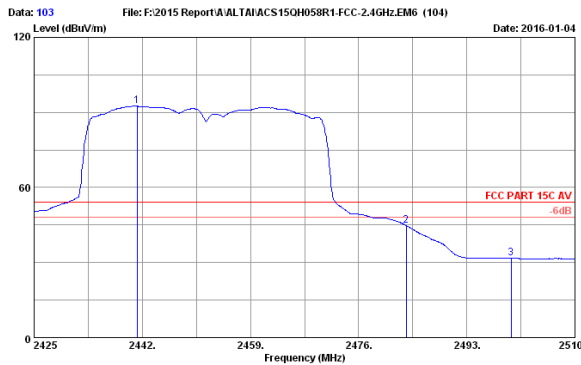
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 102
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2452MHz Tx
 WA3311NAC-C

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	2441.320	28.08	7.39	36.60	85.37	84.24	54.00	-30.24	Average
2	2483.480	28.17	7.51	36.59	38.53	37.62	54.00	16.38	Average
3	2500.000	28.20	7.51	36.58	32.48	31.61	54.00	22.39	Average

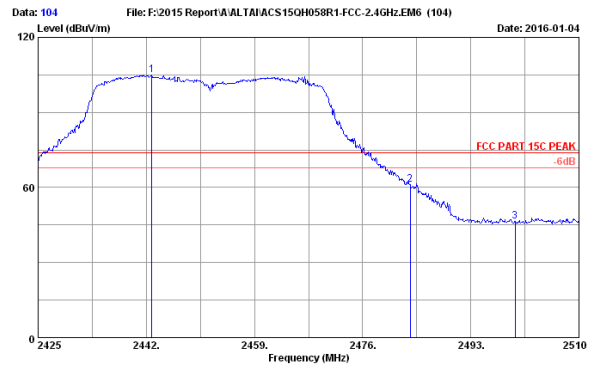
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 103
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2452MHz Tx
 WA3311NAC-C

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	2441.150	28.08	7.39	36.60	93.64	92.51	54.00	-38.51	Average
2	2483.480	28.17	7.51	36.59	45.67	44.76	54.00	9.24	Average
3	2500.000	28.20	7.51	36.58	32.69	31.82	54.00	22.18	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. : 104
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Altai A3c Indoor Dual-band 3x3 802.11ac WiFi AP
 Power rating : DC 56V From POE Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2452MHz Tx
 WA3311NAC-C

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	2442.850	28.09	7.39	36.60	106.01	104.89	74.00	-30.89	Peak
2	2483.500	28.17	7.51	36.59	62.15	61.24	74.00	12.76	Peak
3	2500.000	28.20	7.51	36.58	47.34	46.47	74.00	27.53	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.

7. 6dB Bandwidth 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.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr.28,15	1 Year
4.	RF Cable	Marvelous Microwave Inc	SFL402105FLEX	NO.1	Oct.17.15	1 Year

7.2. Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

7.3. Test Procedure

The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

7.4. Test Results

EUT: Altai A3c Indoor Dual-band 3X3 802.11ac WiFi AP		
M/N: WA3311NAC-C		
Test date: 2016-01-11	Pressure: 101.2±1.0 kpa	Humidity: 52.7±3.0%
Tested by: Leo-Li	Test site: RF site	Temperature:23.5±0.6

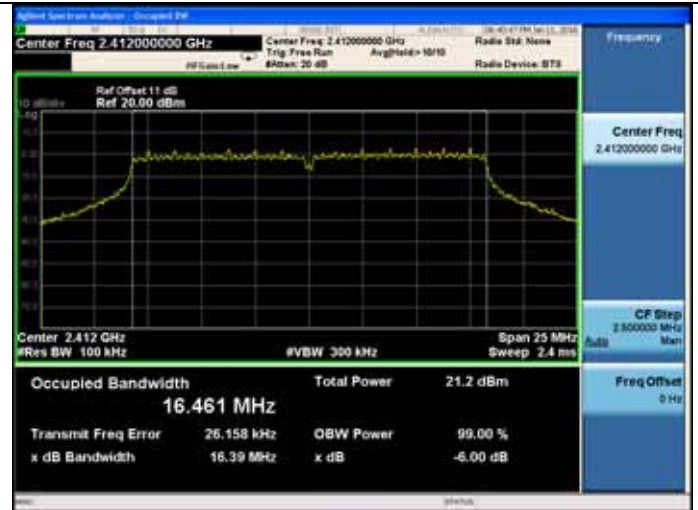
Test Mode	CH	6dB bandwidth (MHz)			Limit (KHz)
		ANT1	ANT2	ANT3	
11b	CH1	7.107	7.094	7.541	500
	CH6	6.578	7.545	7.100	500
	CH11	7.073	7.090	7.102	500
11g	CH1	16.39	16.42	16.38	500
	CH6	16.39	16.43	16.40	500
	CH11	16.41	16.43	16.42	500
11n HT20	CH1	17.35	17.38	17.62	500
	CH6	17.63	17.59	17.62	500
	CH11	17.66	17.61	17.62	500
11n HT40	CH3	36.02	36.33	36.32	500
	CH6	36.35	36.35	36.17	500
	CH9	36.37	36.33	36.37	500
Conclusion : PASS					

ANT1:

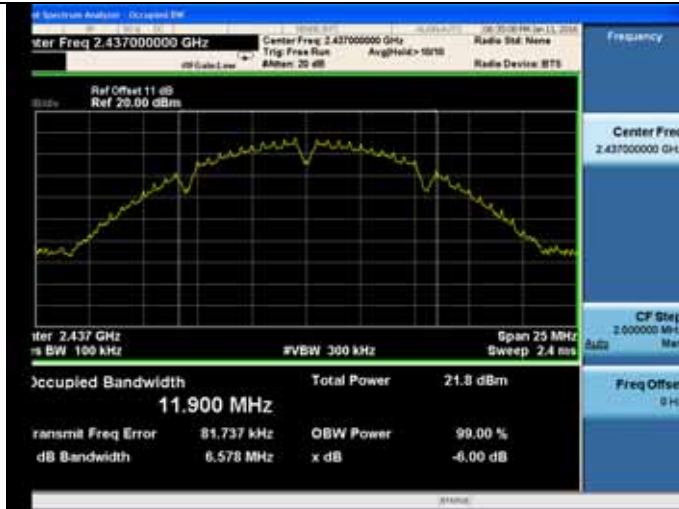
Test Mode: IEEE 802.11b
Test CH1: 2412MHz



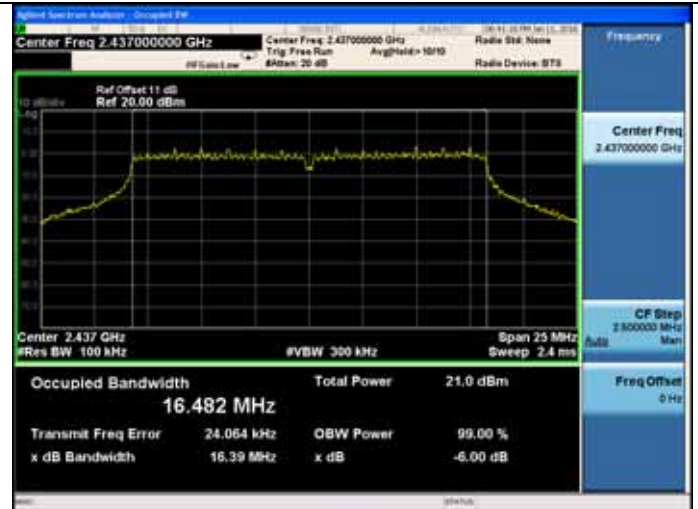
Test Mode: IEEE 802.11g
Test CH1: 2412MHz



Test CH6: 2437MHz



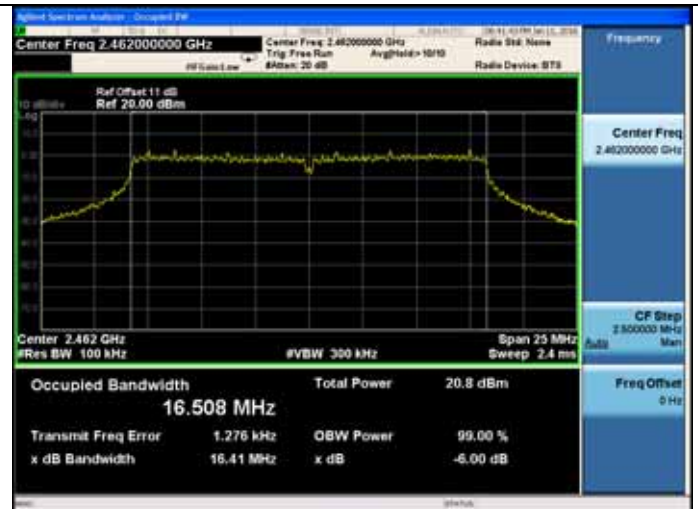
Test CH6: 2437MHz



Test CH11: 2462MHz

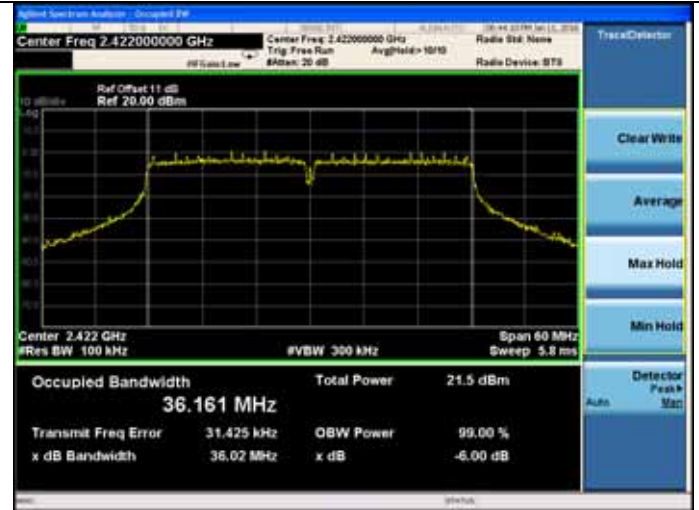
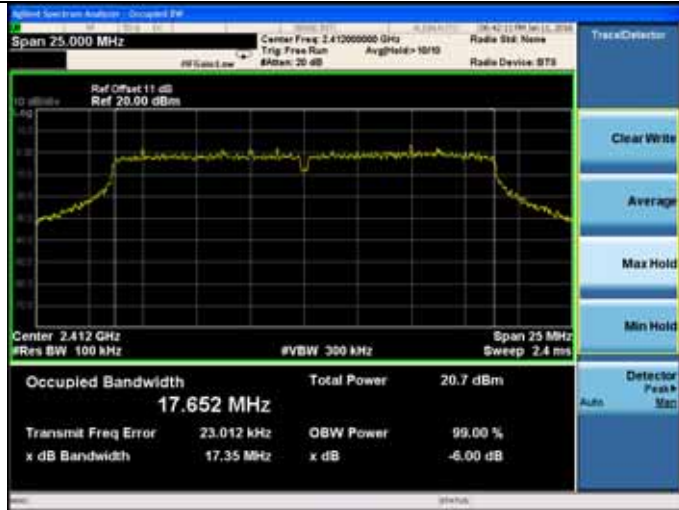


Test CH11: 2462MHz



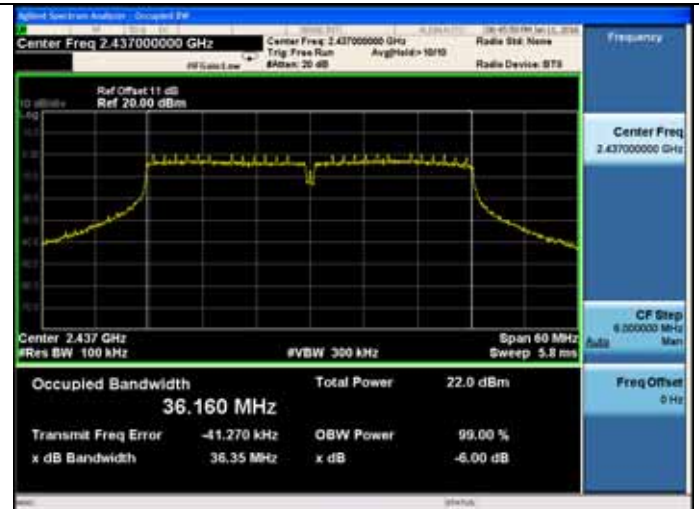
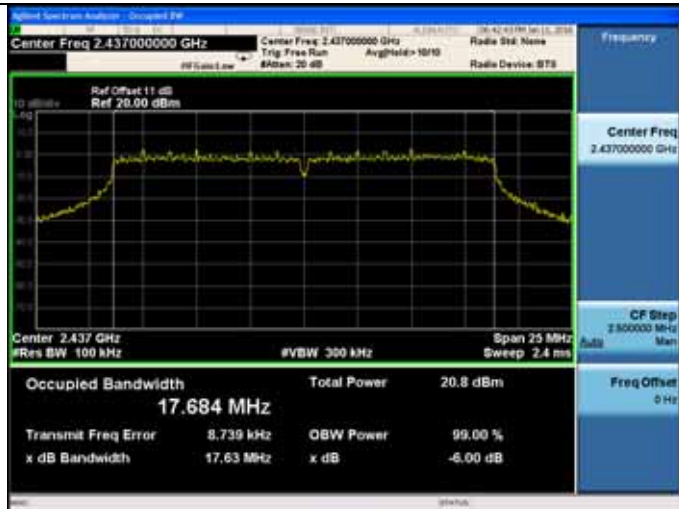
Test Mode: IEEE 802.11n HT20
Test CH1: 2412MHz

Test Mode: IEEE 802.11n HT40
Test CH3: 2422MHz



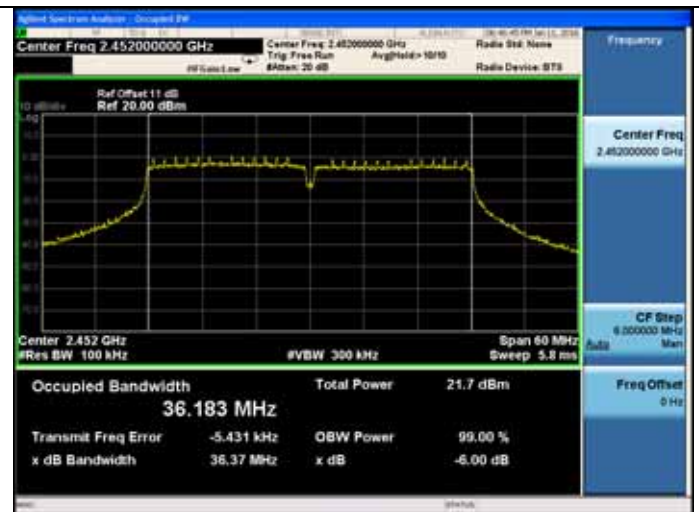
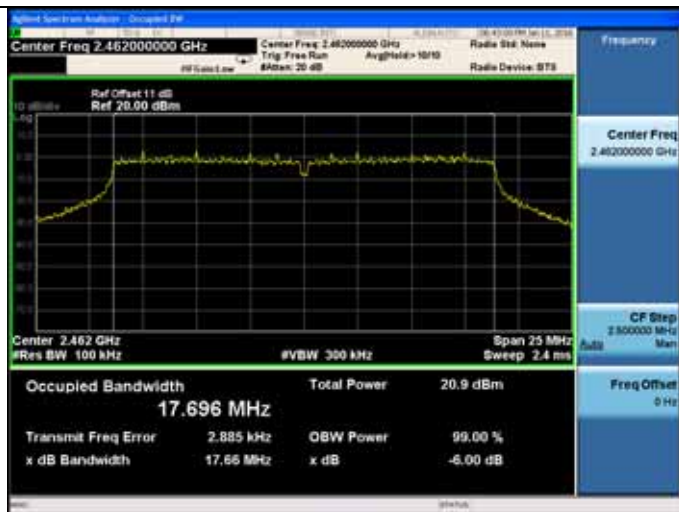
Test CH6: 2437MHz

Test CH6: 2437MHz



Test CH11: 2462MHz

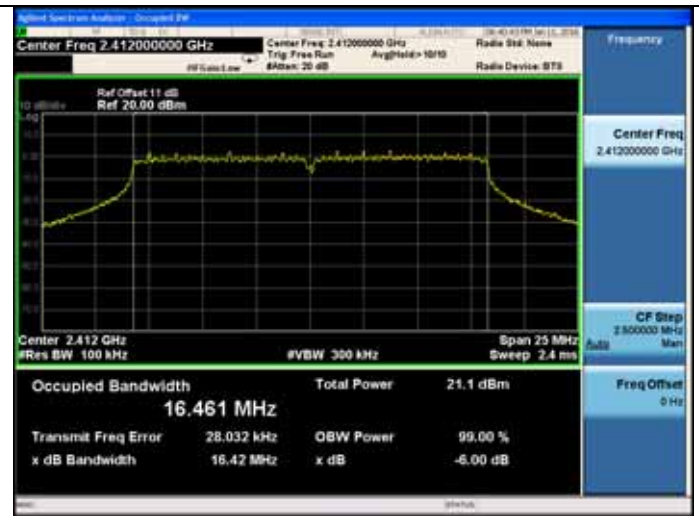
Test CH9: 2452MHz



ANT2:

Test Mode: IEEE 802.11b
Test CH1: 2412MHz

Test Mode: IEEE 802.11g
Test CH1: 2412MHz



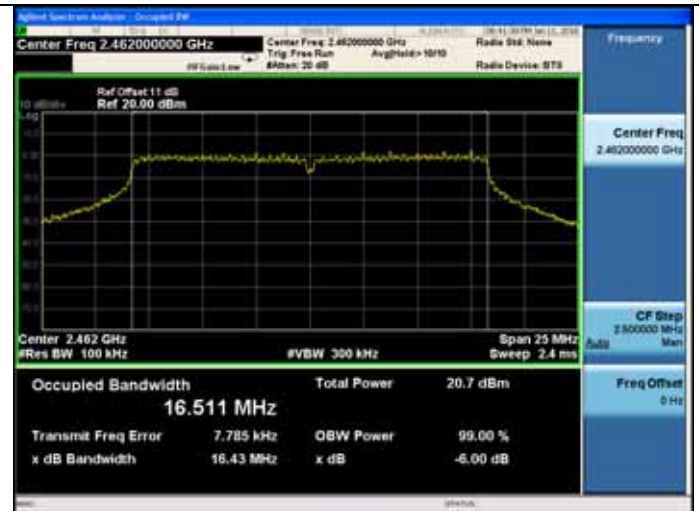
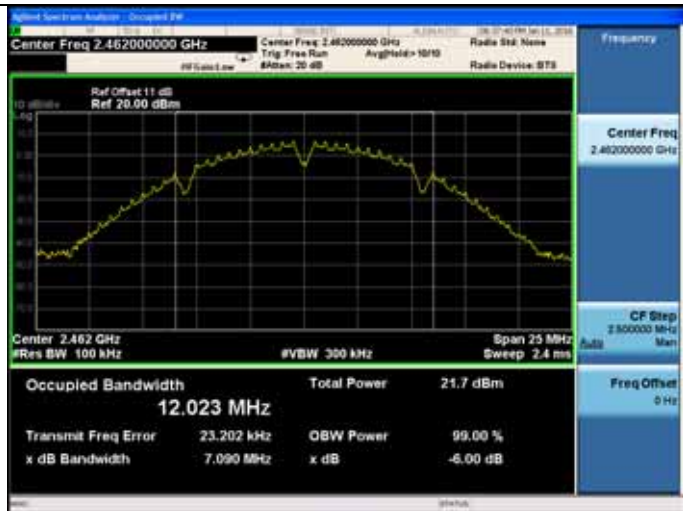
Test CH6: 2437MHz

Test CH6: 2437MHz



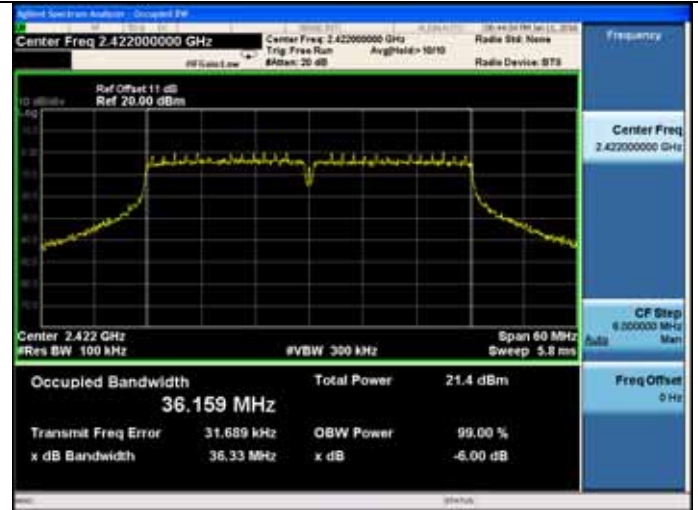
Test CH11: 2462MHz

Test CH11: 2462MHz



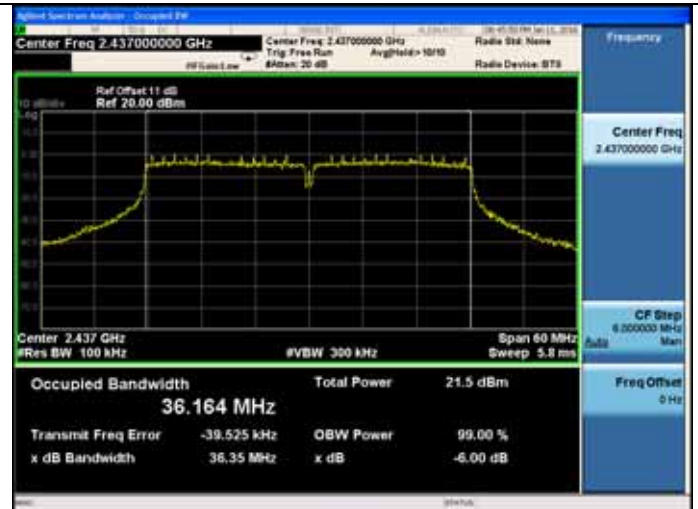
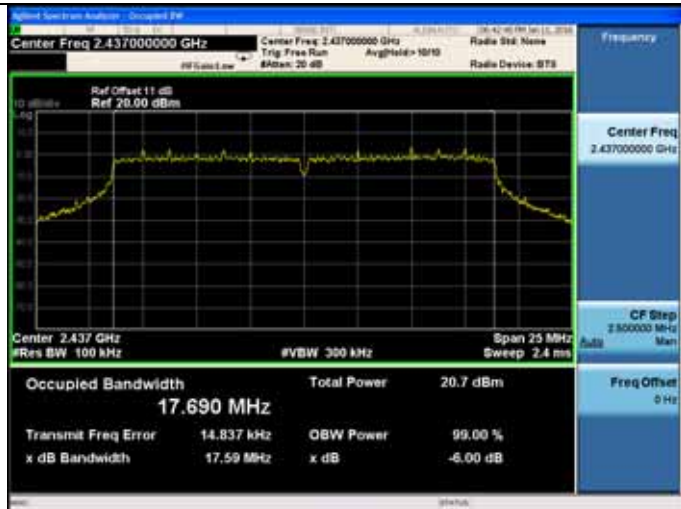
Test Mode: IEEE 802.11n HT20
Test CH1: 2412MHz

Test Mode: IEEE 802.11n HT40
Test CH3: 2422MHz



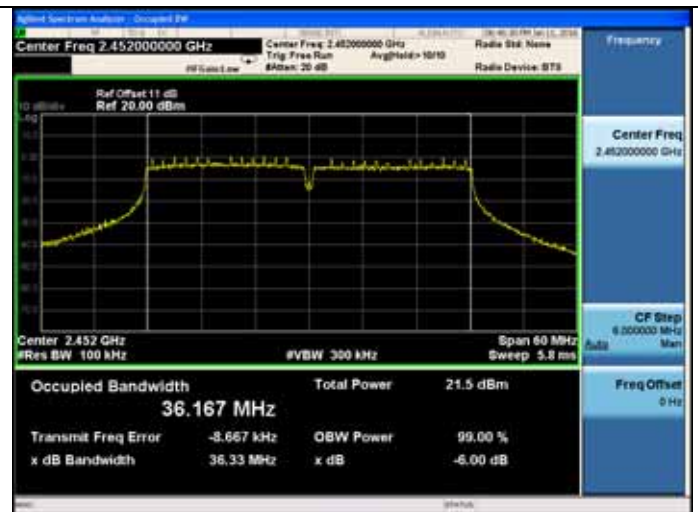
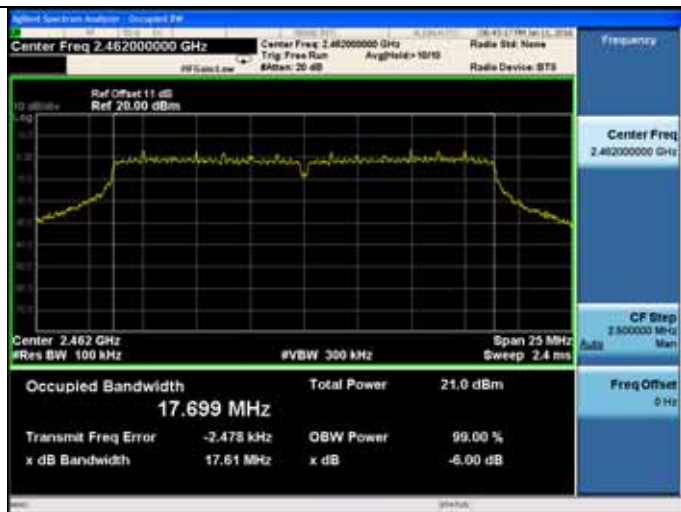
Test CH6: 2437MHz

Test CH6: 2437MHz



Test CH11: 2462MHz

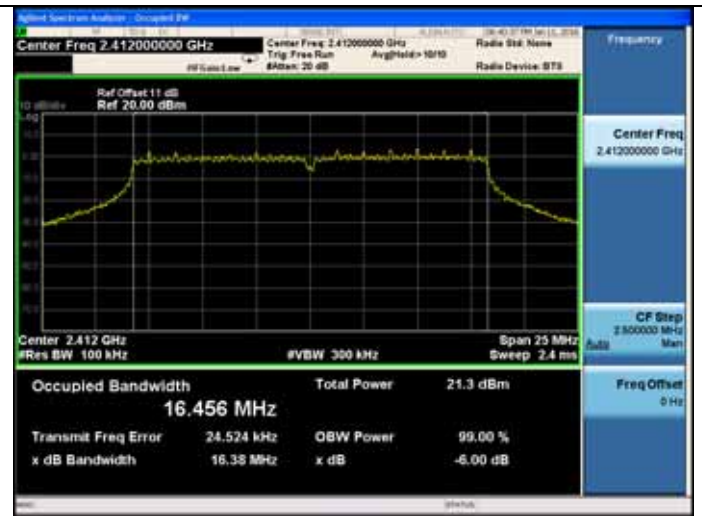
Test CH9: 2452MHz



ANT3:

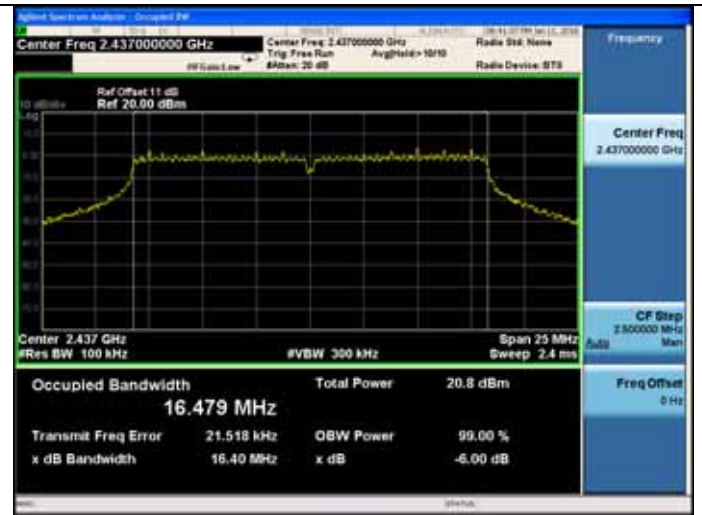
Test Mode: IEEE 802.11b
Test CH1: 2412MHz

Test Mode: IEEE 802.11g
Test CH1: 2412MHz



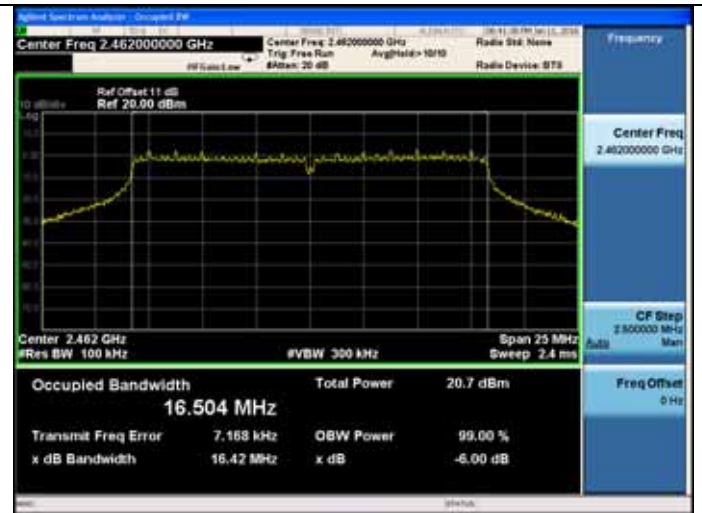
Test CH6: 2437MHz

Test CH6: 2437MHz



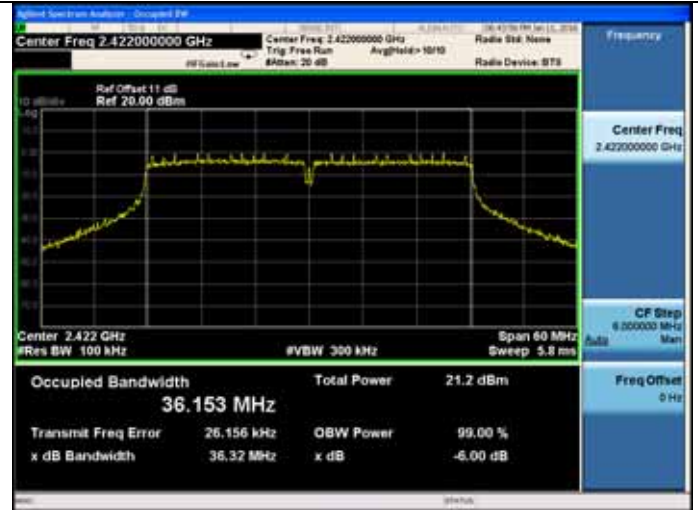
Test CH11: 2462MHz

Test CH11: 2462MHz



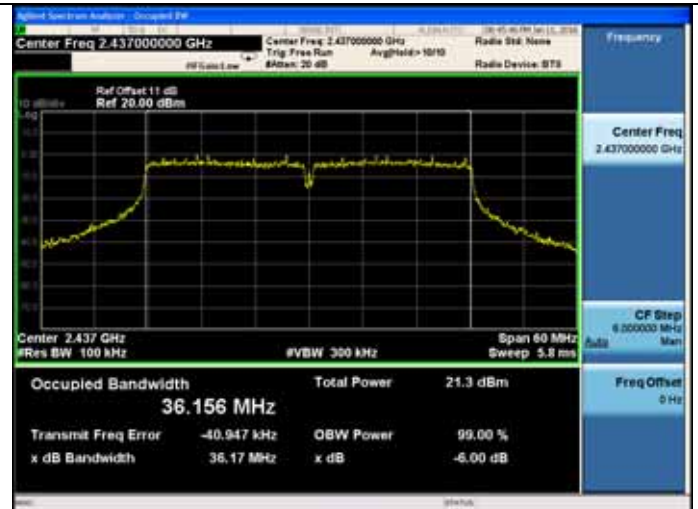
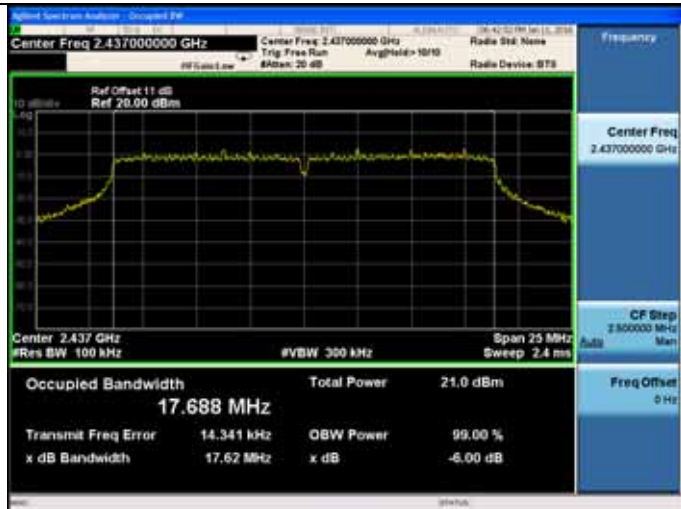
Test Mode: IEEE 802.11n HT20
Test CH1: 2412MHz

Test Mode: IEEE 802.11n HT40
Test CH3: 2422MHz



Test CH6: 2437MHz

Test CH6: 2437MHz



Test CH11: 2462MHz

Test CH9: 2452MHz

