



AUDIX Technology (Shenzhen) Co., Ltd.

FCC ID:UCC-WA2011N-E

FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

Altai Technologies Limited

Altai A2-Ei Dual-band WiFi Access Point

Model Number: WA2011N-E

FCC ID: UCC-WA2011N-E

Prepared for : Altai Technologies Limited
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Report Number : ACS-F14251
Date of Test : Jun.17~Jul.25, 2014
Date of Report : Aug.22, 2014

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TEST REPORT CERTIFICATION

Applicant : Altai Technologies Limited
Manufacturer : Altai Technologies Limited
EUT Description : Altai A2-Ei Dual-band WiFi Access Point
FCC ID : UCC-WA2011N-E
(A) MODEL NO. : WA2011N-E
(B) SERIAL NO. : N/A
(C) POWER SUPPLY : AC 100-240V, 50/60Hz
(D) TEST VOLTAGE : DC 56V From POE Input AC 120V/60Hz

Tested for comply with:
FCC Rules and Regulations Part 15 Subpart C: 2013

Test procedure used:
ANSI C63.10:2009

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. This report contains data that are not covered by the NVLAP accreditation. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC and IC requirements.

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 : Jun.17~Jul.25, 2014 Report of date: Aug.22, 2014

Prepared by :

Cindy Zhu

Cindy Zhu / Assistant

Reviewed by :

Sunny Lu / Assistant Manager

Audix Technology (Shenzhen) Co., Ltd.

EMC 部門 報告 專用 章

Stamp only for EMC Dept. Report

Signature: David Jin & 22

David Jin / Manager

Approved & Authorized Signer :

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 ANSI C63.10: 2009	PASS
Radiated Emission	FCC Part 15: 15.209 ANSI C63.10: 2009	PASS
Band Edge Compliance	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS
Conducted spurious emissions	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS
6dB Bandwidth	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS
Peak Output Power	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS
Power Spectral Density	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS
Antenna requirement	FCC Part 15: 15.203	PASS

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Product Name : Altai A2-Ei Dual-band WiFi Access Point

Model Number : WA2011N-E

FCC ID : UCC-WA2011N-E

Radio : IEEE802.11 a/b/g/n

Operation Frequency : IEEE 802.11a: 5745MHz—5825MHz
IEEE 802.11b: 2412MHz—2462MHz
IEEE 802.11g: 2412MHz—2462MHz
IEEE 802.11nHT20: 2412MHz—2462MHz, 5745MHz—5825MHz
IEEE 802.11nHT40: 2422MHz—2452MHz, 5755MHz—5795MHz

Modulation Technology : IEEE 802.11a: 5745MHz—5825MHz
IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK)
IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK)
IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK,BPSK)

Antenna Assembly Gain : 2.4GHz: Integrated 2.4GHz 14dBi sector, dual slant +-45 degree
5GHz : Integrated 5GHz 15dBi sector, dual slant +-45 degree

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

Date of Test : Jun.17~Jul.25, 2014

Date of Receipt : Jun.16, 2014

Sample Type : Prototype production

2.2. Test Information

A special test software was used to control EUT work in Continuous TX mode(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	6.5	Low :CH1	2412
	6.5	Middle: CH6	2437
	6.5	High: CH11	2462
IEEE 802.11n HT40	13.5	Low :CH1	2422
	13.5	Middle: CH4	2437
	13.5	High: CH7	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.

Note2: In 11b/g mode test Radiated emission and Band edge use chain which has the worse case emission test with two antenna transmit simultaneously in 11n mode.

Tested mode, channel, and data rate information			
Mode	data rate (Mbps)(see Note)	Channel	Frequency (MHz)
IEEE 802.11a	6	Low :CH149	5745
	6	Middle: CH157	5785
	6	High: CH165	5825
IEEE 802.11n HT20	6.5	Low :CH149	5745
	6.5	Middle: CH157	5785
	6.5	High: CH165	5825
IEEE 802.11n HT40	13.5	Low :CH151	5755
	13.5	High : CH159	5795

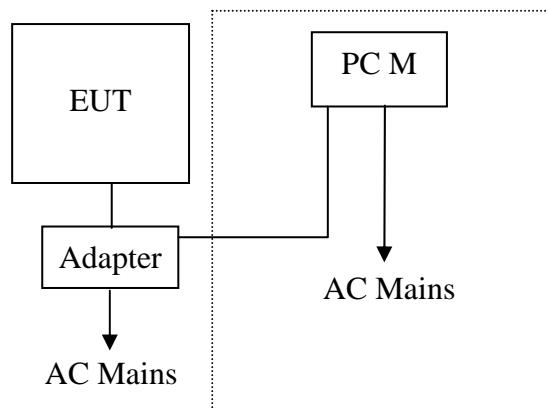
Note 1: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

Note 2: In 11a mode test Radiated emission and Band edge use chain which has the worse case emission test with two antenna transmit simultaneously in 11n mode.

2.3. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number	Approved type
1	Personal Computer	Test PC M	DELL	Studio 540	224XK2X	<input checked="" type="checkbox"/> FCC DoC <input checked="" type="checkbox"/> BSMI ID:R33002
		Power Cord: Unshielded, Detachable, 1.8m Display Card: HD3450 (DVI+VGA+HDMI)				
2	Monitor	ACS-EMC-LM04R	DELL	1907FPt	CN-009759-7161 8-6AP-ACPP	<input checked="" type="checkbox"/> FCC DoC <input checked="" type="checkbox"/> BSMI ID: R3A002
		Power Cord: Unshielded, Detachable, 1.8m VGA Cable: Shielded, Detachable, 2.0m (with two cores) DVI Cable: Shielded, Detachable, 2.0m (with two cores)				
3	USB Mouse	ACS-EMC-M04R	DELL	M0C5UO	512024282	<input checked="" type="checkbox"/> FCC DoC <input checked="" type="checkbox"/> BSMI ID: R41108
		Power Cord: shielded, Undetachable, 1.8m				
4	USB Keyboard	ACS-EMC- K04R	DELL	SK-8115	CN-ODJ313-716 16-6BB-049J	<input checked="" type="checkbox"/> FCC DoC <input checked="" type="checkbox"/> BSMI ID: T3A002
		Power Cord: shielded, Undetachable, 2.0m				

2.4. Block Diagram of Test Setup



(EUT: Altai A2-Ei Dual-band WiFi Access Point)

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: Feb.22, 2015

3m & 10m Anechoic Chamber

Certificated by FCC, USA
Registration Number: 794232
Valid Date: Oct.31, 2015

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, 2015

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

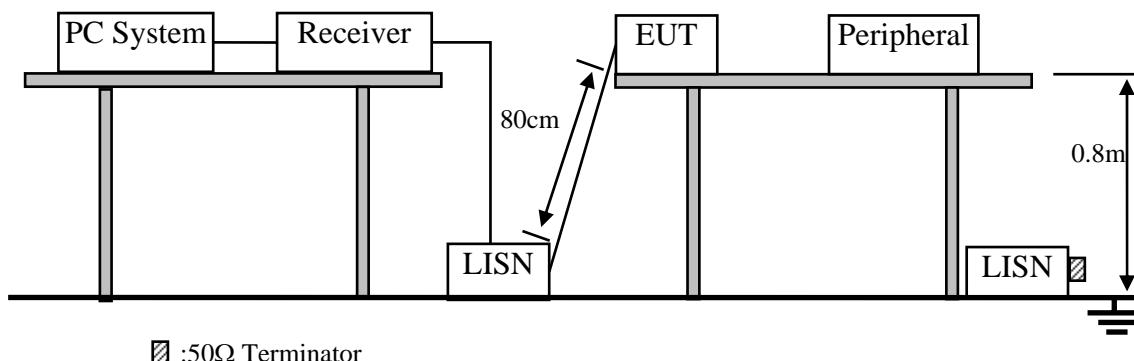
Test Item	Uncertainty
Uncertainty for Radiation Emission test in 3m chamber	3.22 dB(30~200MHz, Polarize: H)
	3.23 dB(30~200MHz, Polarize: V)
	3.49 dB(200M~1GHz, Polarize: H)
	3.39 dB(200M~1GHz, Polarize: V)
Uncertainty for Radiation Emission test in 3m chamber (1GHz-18GHz)	4.97 dB(1~6GHz, Distance: 3m)
	4.99 dB(6~18GHz, Distance: 3m)
Uncertainty for Radiated Spurious Emission test in RF chamber	3.57 dB
Uncertainty for Conduction Spurious emission test	2.00 dB
Uncertainty for Output power test	0.73 dB
Uncertainty for Bandwidth test	83 kHz
Uncertainty for DC power test	0.038 %
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.17,14	1 Year
2.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Oct.31, 13	1 Year
3.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	100429	Jan.22, 14	1 Year
4.	L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	Apr. 28,14	1 Year
5.	Terminator	Hubersuhner	50Ω	No. 1	Apr. 28,14	1 Year
6.	Terminator	Hubersuhner	50Ω	No. 2	Apr. 28,14	1 Year
7.	RF Cable	Hubersuhner	RG58	0100.6954.20#	Jan.22, 14	1 Year
8.	Coaxial Switch	Anritsu	MP59B	6200298346	Apr. 28,14	1 Year
9.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101838	Jan.22, 14	1 Year

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 A2-Ei Dual-band WiFi Access Point (EUT)

Model Number : WA2011N-E

Serial Number : N/A

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

3.5.Operating Condition of EUT

- 3.5.1. Setup the EUT and simulator as shown as Section 3.2.
- 3.5.2. Turned on the power of all equipment.
- 3.5.3. PC run test software to control EUT work in Tx mode.

3.6.Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via PC connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2009 on Conducted Emission Test.

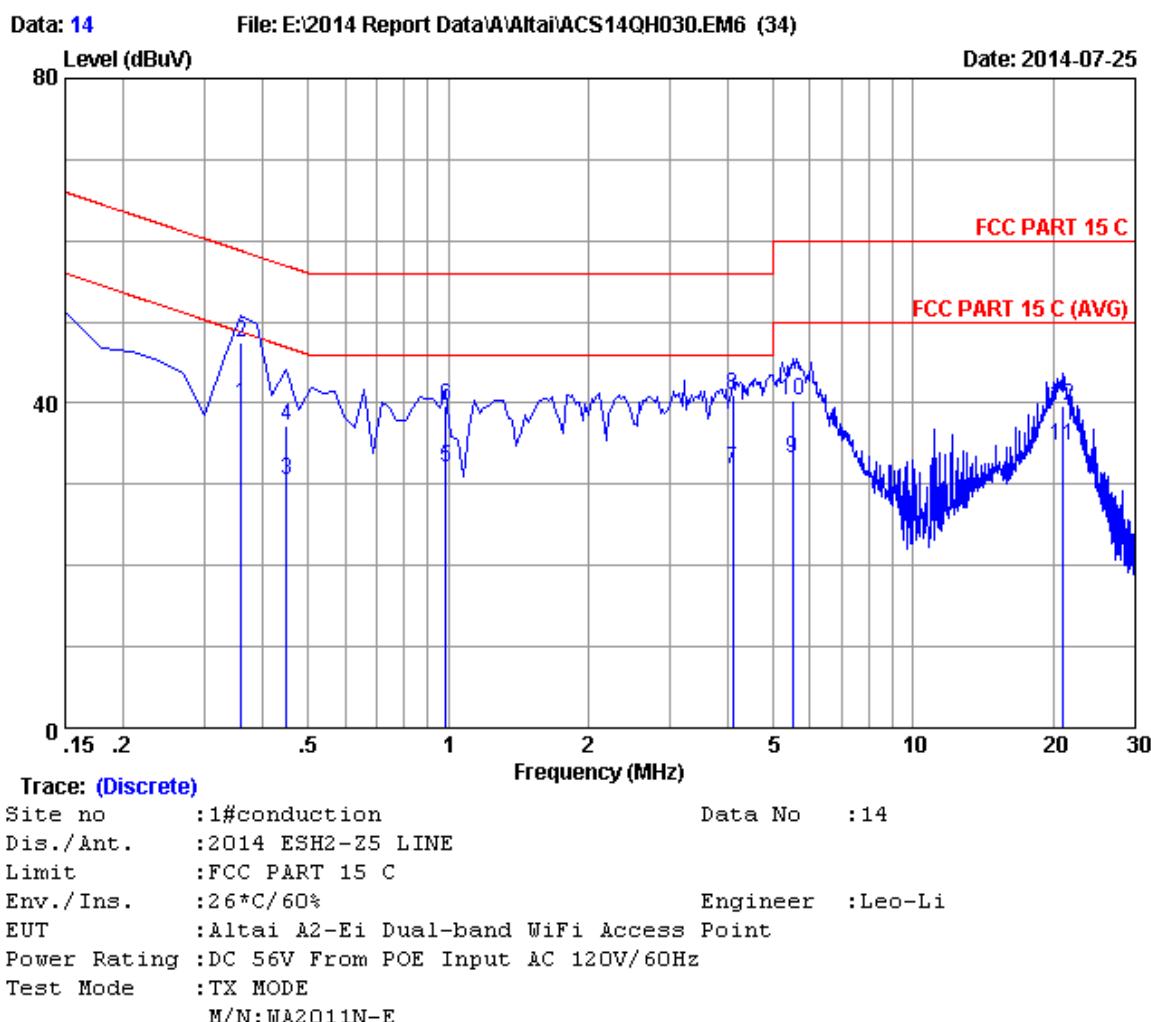
The bandwidth of test receiver (R & S ESHS10) is set at 9kHz.

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.)

2.4G:

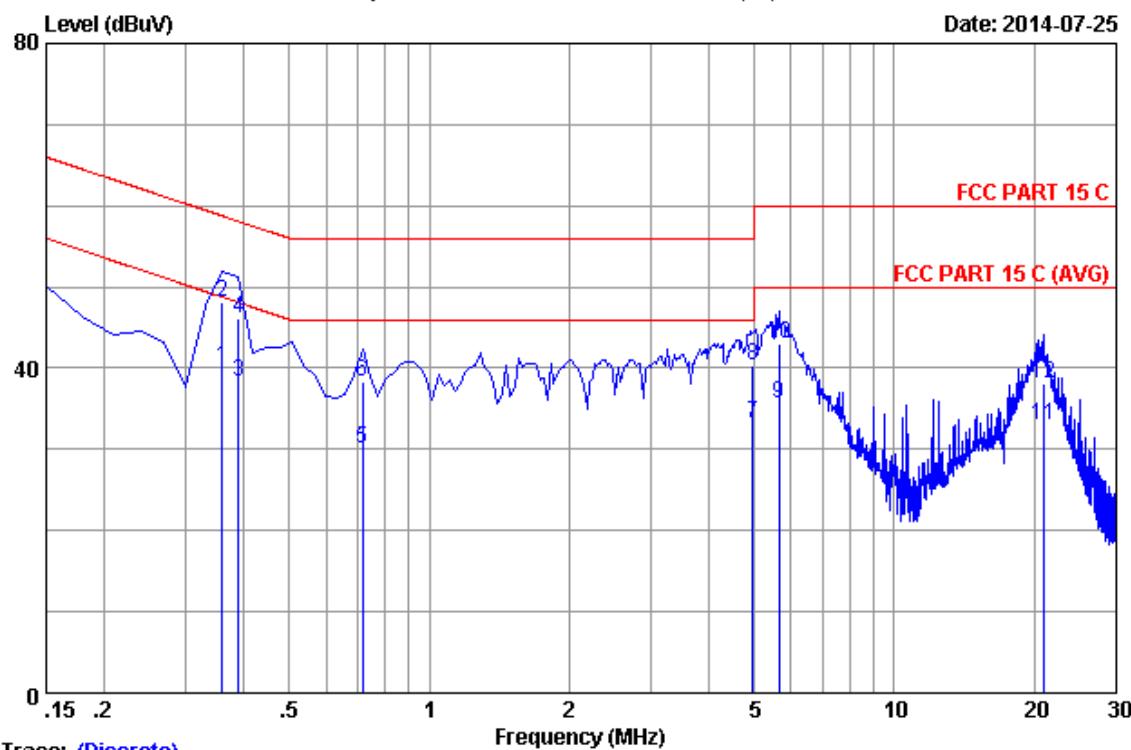


No	Freq (MHz)	LISN	Cable	Emission				Remark
		Factor (dB)	Loss (dB)	Reading (dBuV)	Level (dBuV)	Limits (dBuV)	Margin (dB)	
1	0.35800	0.14	9.88	29.80	39.82	48.77	8.95	Average
2	0.35800	0.14	9.88	37.50	47.52	58.77	11.25	QP
3	0.44850	0.15	9.88	20.60	30.63	46.90	16.27	Average
4	0.44850	0.15	9.88	27.20	37.23	56.90	19.67	QP
5	0.98580	0.17	9.89	21.99	32.05	46.00	13.95	Average
6	0.98580	0.17	9.89	29.54	39.60	56.00	16.40	QP
7	4.090	0.24	9.94	21.68	31.86	46.00	14.14	Average
8	4.090	0.24	9.94	30.86	41.04	56.00	14.96	QP
9	5.493	0.28	9.96	23.00	33.24	50.00	16.76	Average
10	5.493	0.28	9.96	30.00	40.24	60.00	19.76	QP
11	20.925	0.85	10.09	23.80	34.74	50.00	15.26	Average
12	20.925	0.85	10.09	28.70	39.64	60.00	20.36	QP

Remarks: 1. Emission Level=LISN Factor+Cable Loss (Include 10dB pulse limit)
 +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.

Data: 13 File: E:\2014 Report Data\Altai\ACS14QH030.EM6 (34)

Date: 2014-07-25



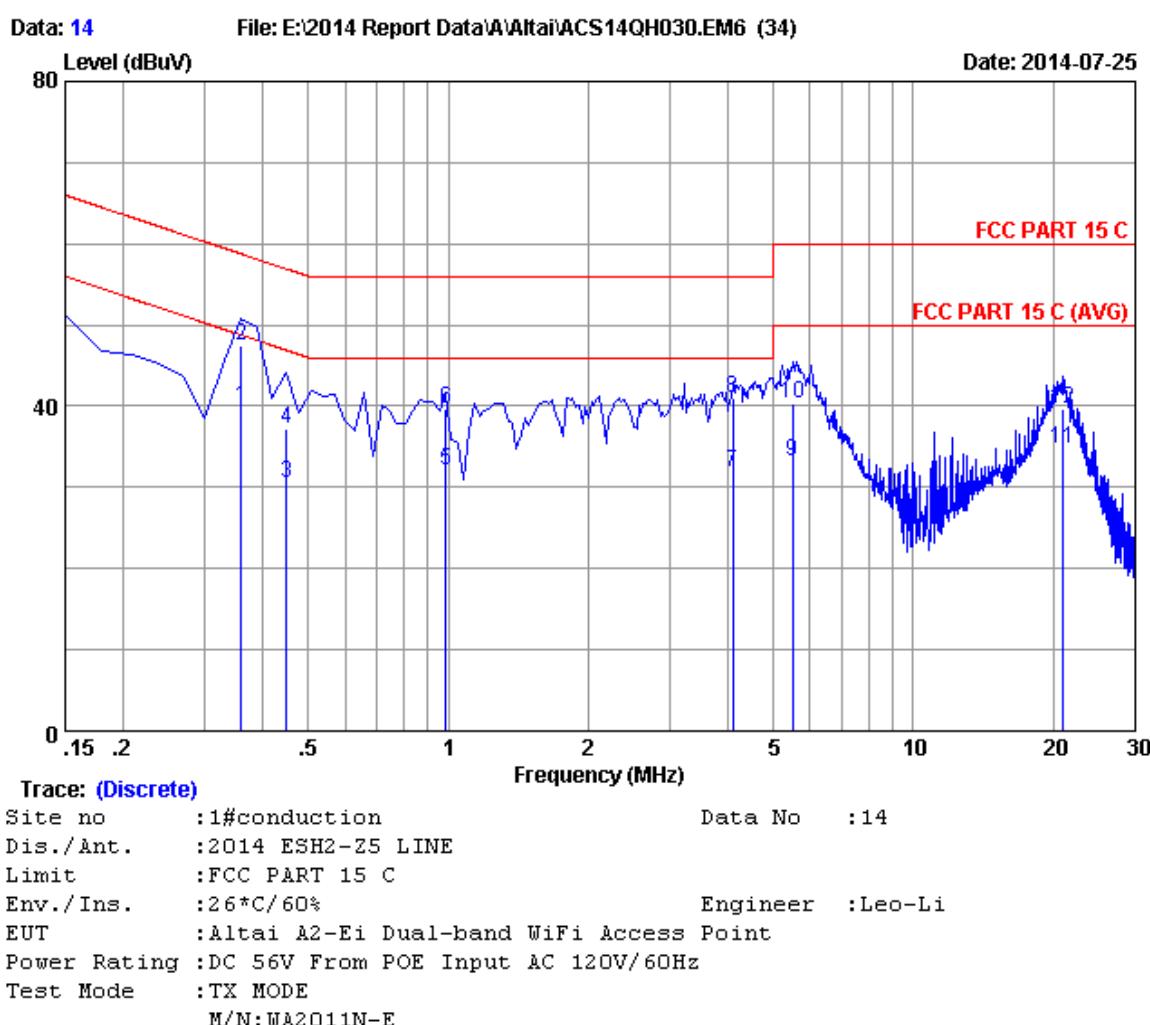
Trace: (Discrete)

Site no :1#conduction Data No :13
 Dis./Ant. :2014 ESH2-25 NEUTRAL
 Limit :FCC PART 15 C
 Env./Ins. :26°C/60% Engineer :Leo-Li
 EUT :Altai A2-Ei Dual-band WiFi Access Point
 Power Rating :DC 56V From POE Input AC 120V/60Hz
 Test Mode :TX MODE
 M/N:WA2011N-E

No	Freq (MHz)	LISN	Cable	Emission				Remark
		Factor (dB)	Loss (dB)	Reading (dBuV)	Level (dBuV)	Limits (dBuV)	Margin (dB)	
1	0.35800	0.14	9.88	30.10	40.12	48.77	8.65	Average
2	0.35800	0.14	9.88	38.00	48.02	58.77	10.75	QP
3	0.38880	0.14	9.88	28.41	38.43	48.09	9.66	Average
4	0.38880	0.14	9.88	36.16	46.18	58.09	11.91	QP
5	0.71715	0.15	9.89	20.01	30.05	46.00	15.95	Average
6	0.71715	0.15	9.89	28.28	38.32	56.00	17.68	QP
7	4.956	0.29	9.95	22.90	33.14	46.00	12.86	Average
8	4.956	0.29	9.95	30.10	40.34	56.00	15.66	QP
9	5.642	0.32	9.96	25.40	35.68	50.00	14.32	Average
10	5.642	0.32	9.96	32.80	43.08	60.00	16.92	QP
11	20.986	1.06	10.09	21.80	32.95	50.00	17.05	Average
12	20.986	1.06	10.09	27.00	38.15	60.00	21.85	QP

Remarks: 1. Emission Level=LISN Factor+Cable Loss (Include 10dB pulse limit)
+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.

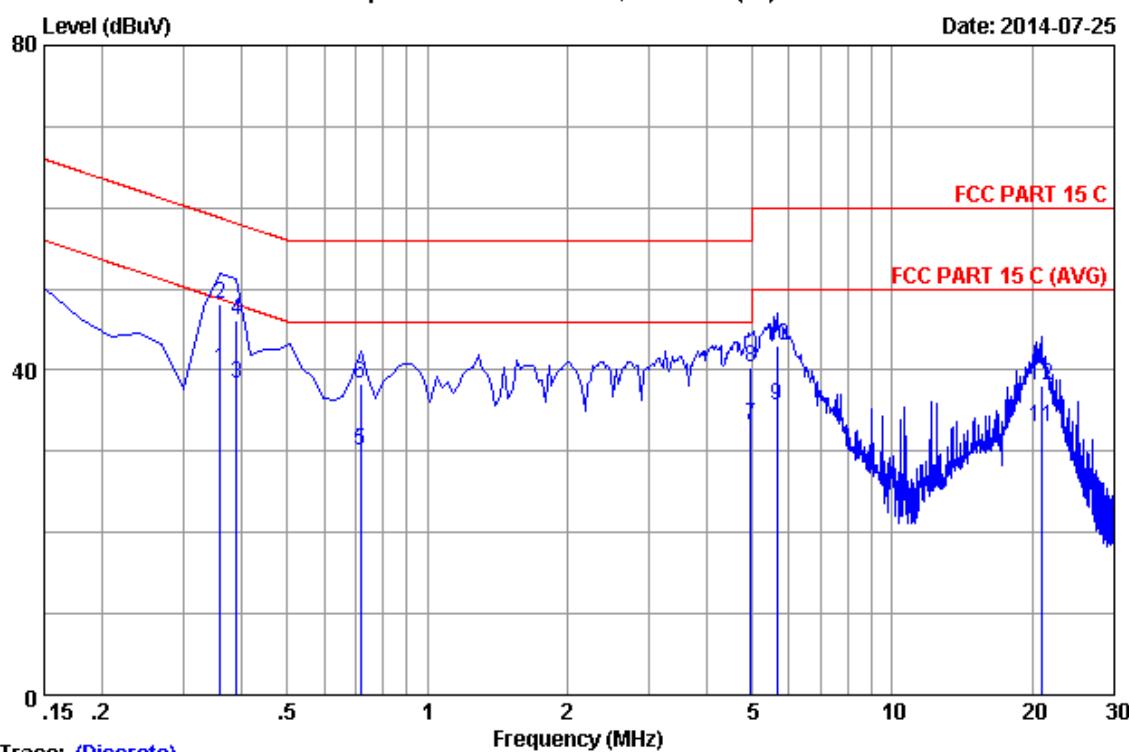
5.8G:


No	Freq (MHz)	LISN	Cable	Emission				Remark
		Factor (dB)	Loss (dB)	Reading (dBuV)	Level (dBuV)	Limits (dBuV)	Margin (dB)	
1	0.35800	0.14	9.88	29.80	39.82	48.77	8.95	Average
2	0.35800	0.14	9.88	37.50	47.52	58.77	11.25	QP
3	0.44850	0.15	9.88	20.60	30.63	46.90	16.27	Average
4	0.44850	0.15	9.88	27.20	37.23	56.90	19.67	QP
5	0.98580	0.17	9.89	21.99	32.05	46.00	13.95	Average
6	0.98580	0.17	9.89	29.54	39.60	56.00	16.40	QP
7	4.090	0.24	9.94	21.68	31.86	46.00	14.14	Average
8	4.090	0.24	9.94	30.86	41.04	56.00	14.96	QP
9	5.493	0.28	9.96	23.00	33.24	50.00	16.76	Average
10	5.493	0.28	9.96	30.00	40.24	60.00	19.76	QP
11	20.925	0.85	10.09	23.80	34.74	50.00	15.26	Average
12	20.925	0.85	10.09	28.70	39.64	60.00	20.36	QP

Remarks: 1. Emission Level=LISN Factor+Cable Loss (Include 10dB pulse limit)
 +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.

Data: 13 File: E:\2014 Report Data\Altai\ACS14QH030.EM6 (34)

Date: 2014-07-25



Trace: (Discrete)

Site no :1#conduction Data No :13
 Dis./Ant. :2014 ESH2-25 NEUTRAL
 Limit :FCC PART 15 C
 Env./Ins. :26°C/60% Engineer :Leo-Li
 EUT :Altai A2-Ei Dual-band WiFi Access Point
 Power Rating :DC 56V From POE Input AC 120V/60Hz
 Test Mode :TX MODE
 M/N:WA2011N-E

No	Freq (MHz)	LISN	Cable	Emission				Remark
		Factor (dB)	Loss (dB)	Reading (dBuV)	Level (dBuV)	Limits (dBuV)	Margin (dB)	
1	0.35800	0.14	9.88	30.10	40.12	48.77	8.65	Average
2	0.35800	0.14	9.88	38.00	48.02	58.77	10.75	QP
3	0.38880	0.14	9.88	28.41	38.43	48.09	9.66	Average
4	0.38880	0.14	9.88	36.16	46.18	58.09	11.91	QP
5	0.71715	0.15	9.89	20.01	30.05	46.00	15.95	Average
6	0.71715	0.15	9.89	28.28	38.32	56.00	17.68	QP
7	4.956	0.29	9.95	22.90	33.14	46.00	12.86	Average
8	4.956	0.29	9.95	30.10	40.34	56.00	15.66	QP
9	5.642	0.32	9.96	25.40	35.68	50.00	14.32	Average
10	5.642	0.32	9.96	32.80	43.08	60.00	16.92	QP
11	20.986	1.06	10.09	21.80	32.95	50.00	17.05	Average
12	20.986	1.06	10.09	27.00	38.15	60.00	21.85	QP

Remarks: 1. Emission Level=LISN Factor+Cable Loss (Include 10dB pulse limit)
+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 (At Anechoic Chamber)

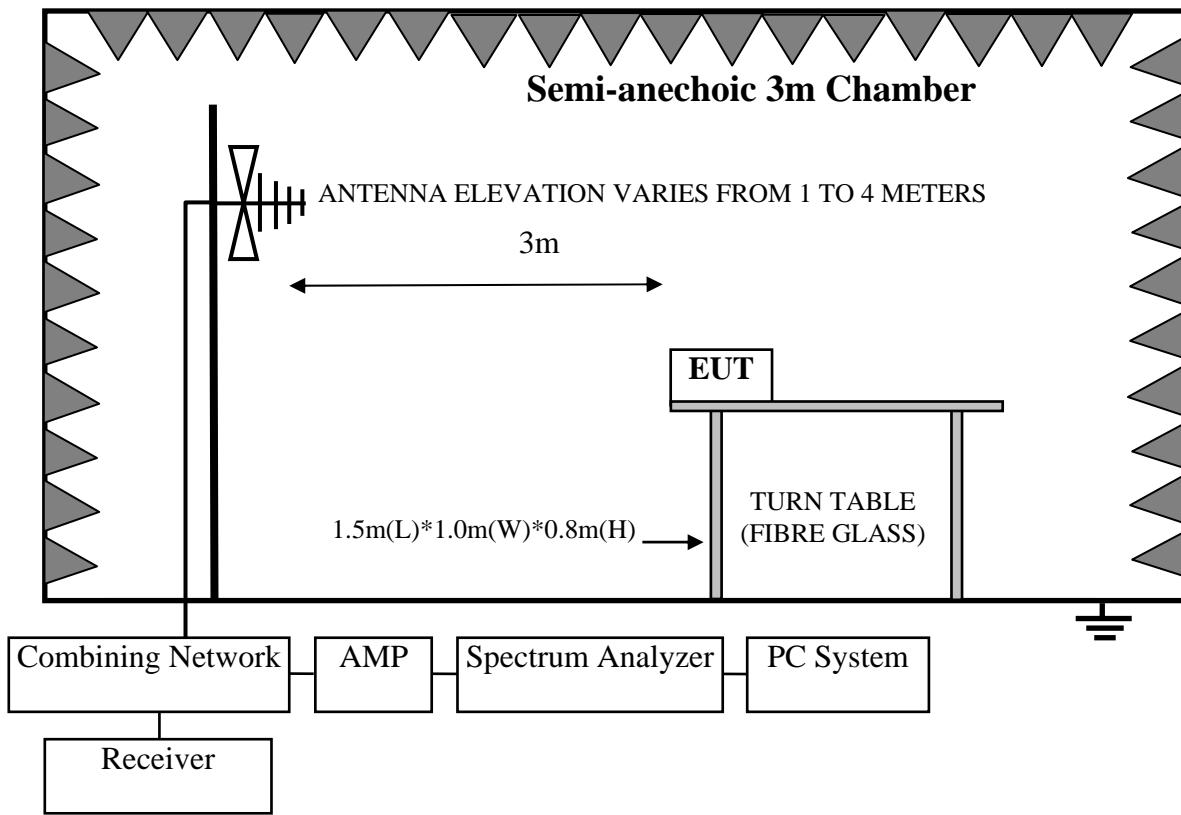
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Nov.24, 13	1 Year
2.	EMI Spectrum	Agilent	E4407B	MY41440292	Apr. 28,14	1 Year
3.	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	Apr. 28,14	1 Year
4.	Amplifier	HP	8447D	2648A04738	Apr. 28,14	1 Year
5.	Bilog Antenna	TESEQ	CBL6112D	35375	Jun. 18, 14	1 Year
6.	RF Cable	MIYAZAKI	CFD400-NL	3# Chamber No.1	Apr. 28,14	1 Year
7.	Coaxial Switch	Anritsu	MP59B	6200313662	Apr. 28,14	1 Year

4.1.2. For frequency range above 1GHz (At Anechoic Chamber)

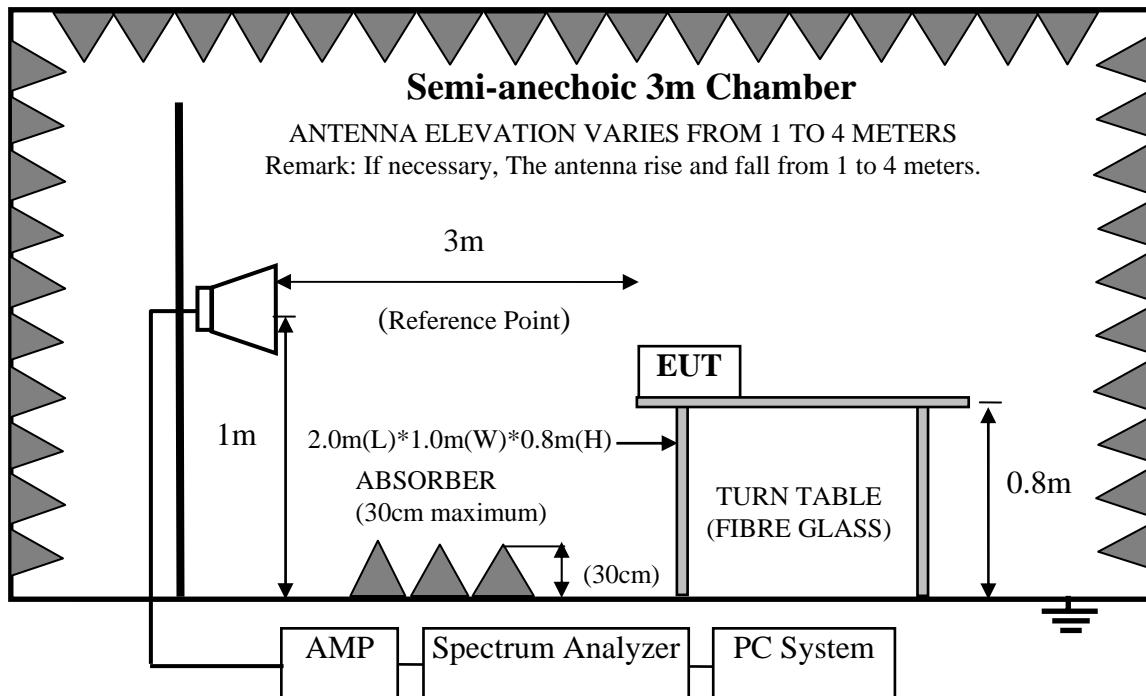
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Nov.03, 13	1 Year
2.	Spectrum Analyzer	Agilent	E4407B	MY41440292	Apr. 28,14	1 Year
3.	Horn Antenna	ETS	3115	9607-4877	Aug.27, 13	1 Year
4.	Amplifier	Agilent	8449B	3008A00863	Apr. 28,14	1 Year
5.	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	Apr. 28,14	1 Year
6.	RF Cable	Hubersuhner	SUCOFLEX106	28616/2	Apr. 28,14	1 Year
7.	Horn Antenna	ETS	3116	00060089	Aug.27, 13	1 Year

4.2. Block Diagram of Test Setup

4.2.1. For frequency range 30MHz-1000MHz



4.2.2. For frequency range above 1GHz



4.3.Radiated Emission Limit

4.3.1. 15.247&209 limits

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

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

- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.3.2. 15.205 Restricted bands of operation

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

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 configurations of EUT are listed in Section 3.5.

4.5.Operating Condition of EUT

Same as Conducted Emission test that is listed in Section 3.6. except the test set up replaced by Section 4.2.

4.6.Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above 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. 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 (40GHz) are checked. and no any emissions were found from 18GHz to 40 GHz, So the radiated emissions from 18GHz to 40GHz were not record

4.7.Radiated Emission Test Results

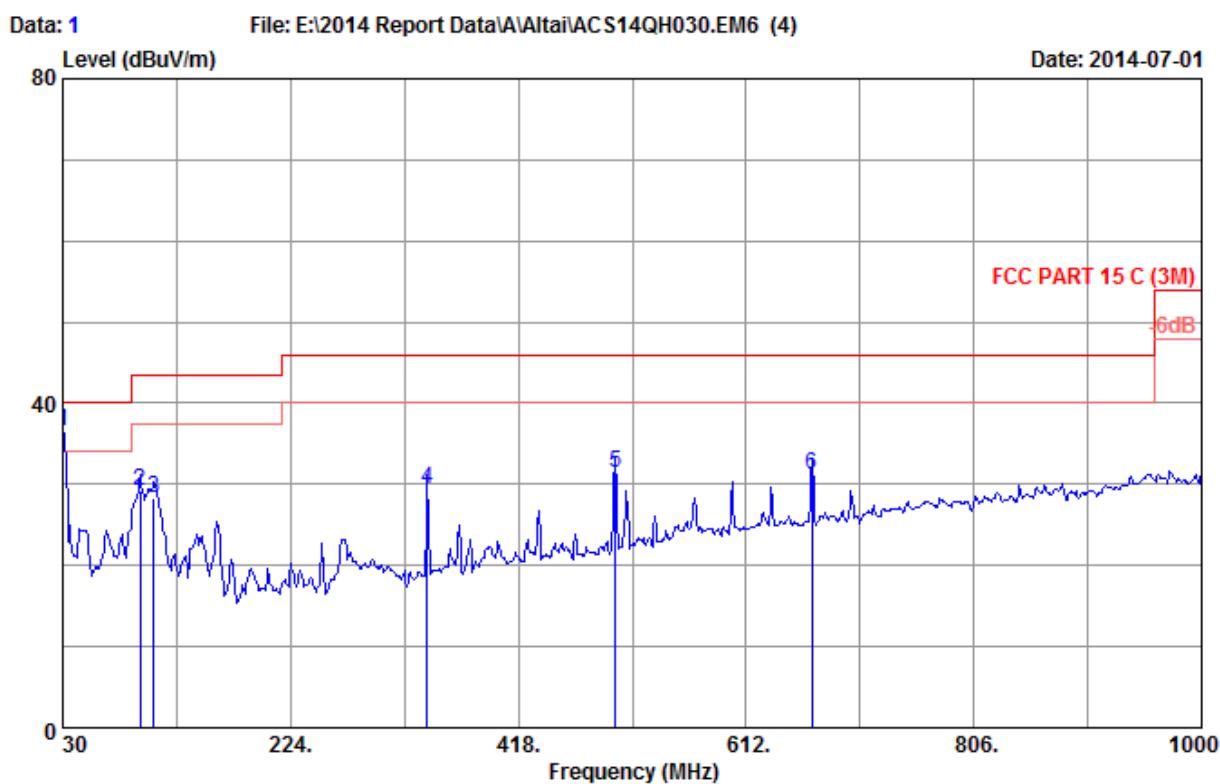
PASS.

All the emissions from 30MHz to 40 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.

2.4G:

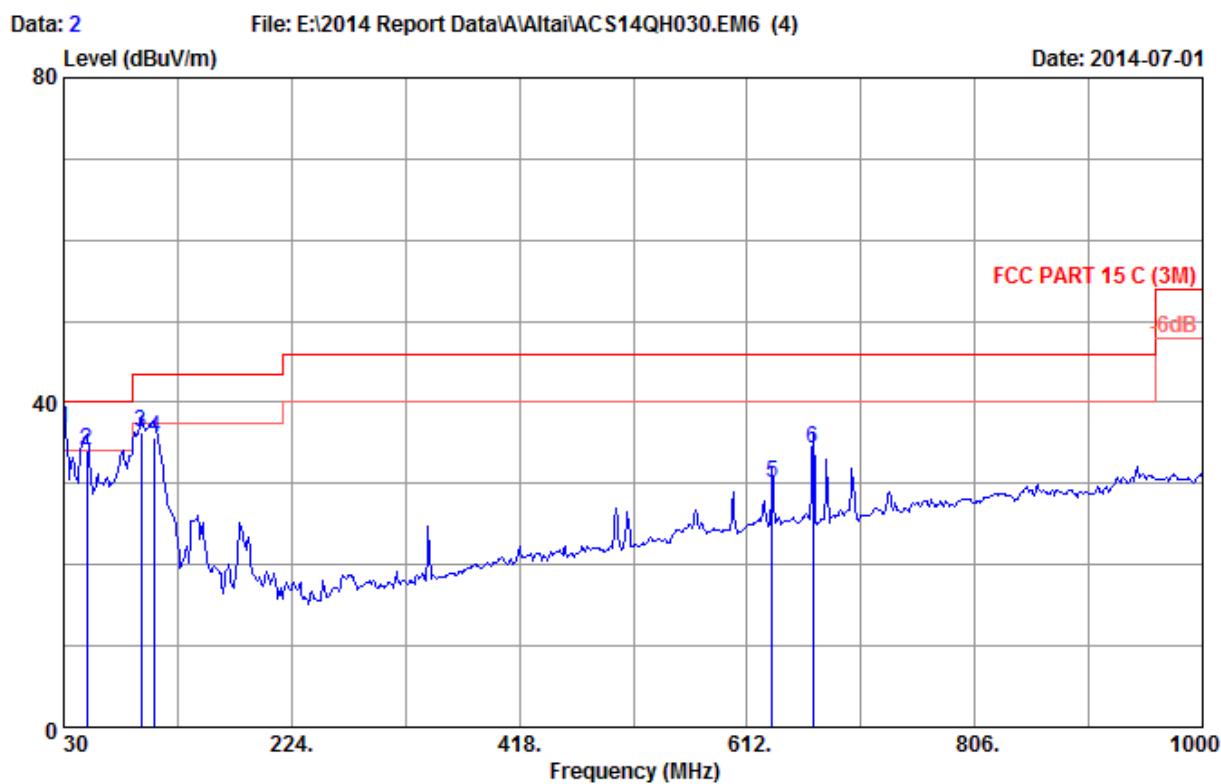
Frequency: 30MHz~1GHz



Site no :3m Chamber Data No :1
 Dis./Ant. :3m 2014 CBL6111C 2598 Ant.pol :HORIZONTAL
 Limit :FCC PART 15 C (3M)
 Env./Ins. :23.4°C/42% Engineer :Leo-Li
 EUT :Altai A2-Ei Dual-band WiFi Access Point
 Power Rating :DC 56V From POE Input AC 120V/60Hz
 Test Mode :Tx Mode
 M/N:WA2011N-E

No	Freq (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
					Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.000	20.10	0.60	15.90	36.60	40.00	3.40	QP
2	95.960	10.20	1.09	17.81	29.10	43.50	14.40	QP
3	107.600	11.08	1.19	16.11	28.38	43.50	15.12	QP
4	340.400	14.92	2.50	11.89	29.31	46.00	16.69	QP
5	500.450	18.30	3.22	9.79	31.31	46.00	14.69	QP
6	668.260	20.50	4.00	6.67	31.17	46.00	14.83	QP

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

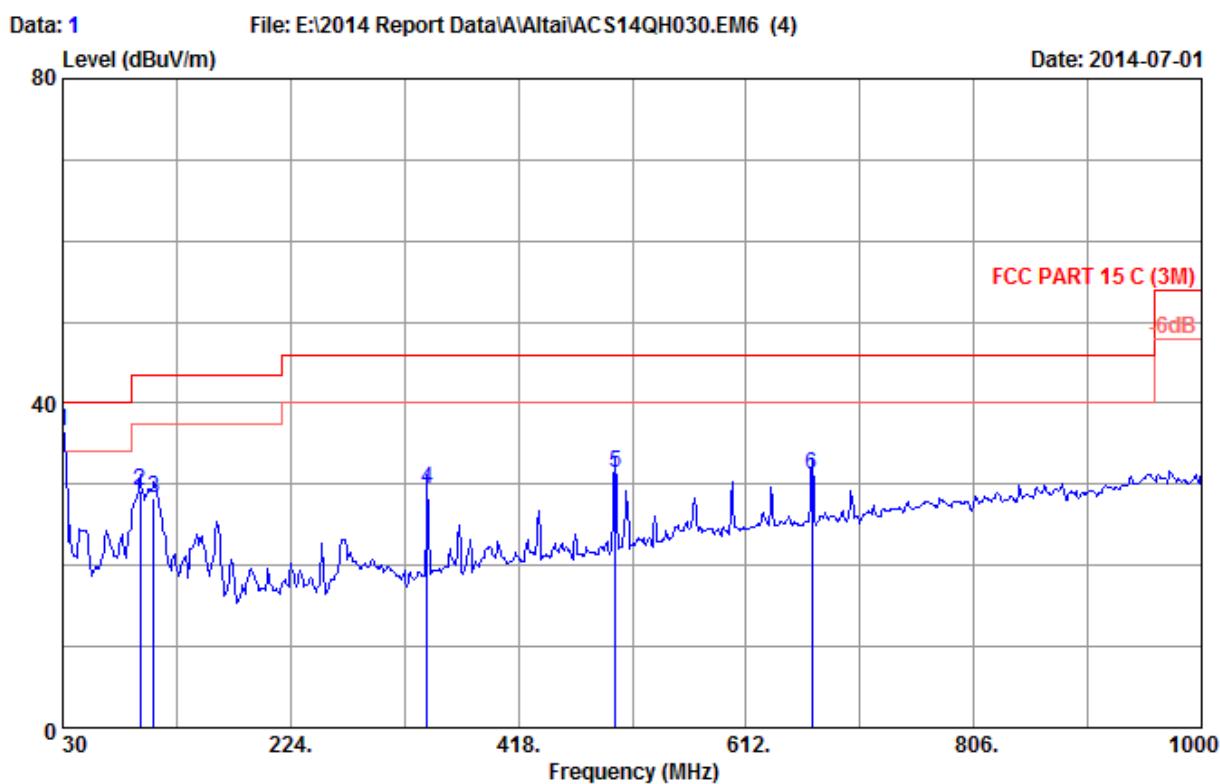


Site no :3m Chamber Data No :2
 Dis./Ant. :3m 2014 CBL6111C 2598 Ant.pol :VERTICAL
 Limit :FCC PART 15 C (3M)
 Env./Ins. :23.4°C/42% Engineer :Leo-Li
 EUT :Altai A2-Ei Dual-band WiFi Access Point
 Power Rating :DC 56V From POE Input AC 120V/60Hz
 Test Mode :Tx Mode
 M/N:WA2011N-E

No	Freq (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
					Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.000	20.10	0.60	16.10	36.80	40.00	3.20	QP
2	49.400	9.05	0.77	24.25	34.07	40.00	5.93	QP
3	95.960	10.20	1.09	25.14	36.43	43.50	7.07	QP
4	107.600	11.08	1.19	23.45	35.72	43.50	7.78	QP
5	633.340	20.20	3.85	6.10	30.15	46.00	15.85	QP
6	668.260	20.50	4.00	9.80	34.30	46.00	11.70	QP

Remarks: 1.Emission Level=Antenna Factor+Cable Loss+Reading.

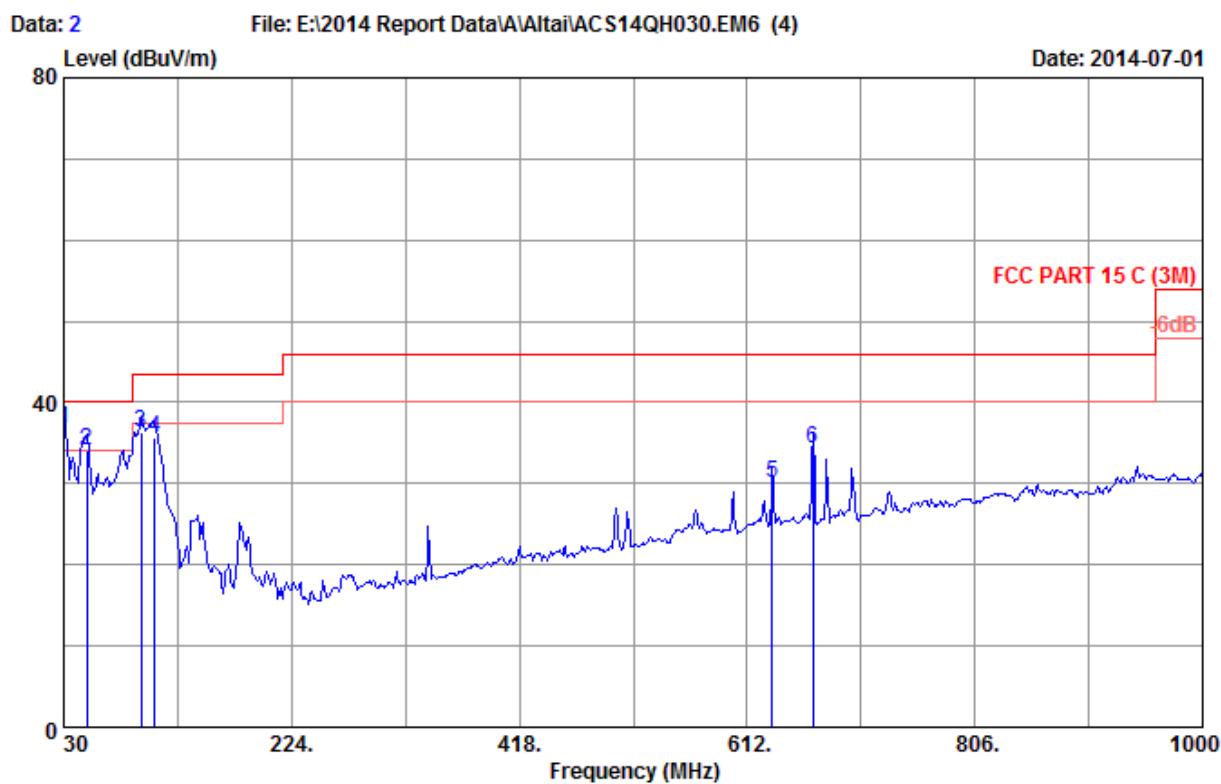
2.The emission Levels that are 20dB below the official limit are not reported

5.8G:
Frequency: 30MHz~1GHz


Site no :3m Chamber Data No :1
 Dis./Ant. :3m 2014 CBL6111C 2598 Ant.pol :HORIZONTAL
 Limit :FCC PART 15 C (3M)
 Env./Ins. :23.4°C/42% Engineer :Leo-Li
 EUT :Altai A2-Ei Dual-band WiFi Access Point
 Power Rating :DC 56V From POE Input AC 120V/60Hz
 Test Mode :Tx Mode
 M/N:WA2011N-E

No	Freq (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
					Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.000	20.10	0.60	15.90	36.60	40.00	3.40	QP
2	95.960	10.20	1.09	17.81	29.10	43.50	14.40	QP
3	107.600	11.08	1.19	16.11	28.38	43.50	15.12	QP
4	340.400	14.92	2.50	11.89	29.31	46.00	16.69	QP
5	500.450	18.30	3.22	9.79	31.31	46.00	14.69	QP
6	668.260	20.50	4.00	6.67	31.17	46.00	14.83	QP

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



Site no :3m Chamber Data No :2
 Dis./Ant. :3m 2014 CBL6111C 2598 Ant.pol :VERTICAL
 Limit :FCC PART 15 C (3M)
 Env./Ins. :23.4°C/42% Engineer :Leo-Li
 EUT :Altai A2-Ei Dual-band WiFi Access Point
 Power Rating :DC 56V From POE Input AC 120V/60Hz
 Test Mode :Tx Mode
 M/N:WA2011N-E

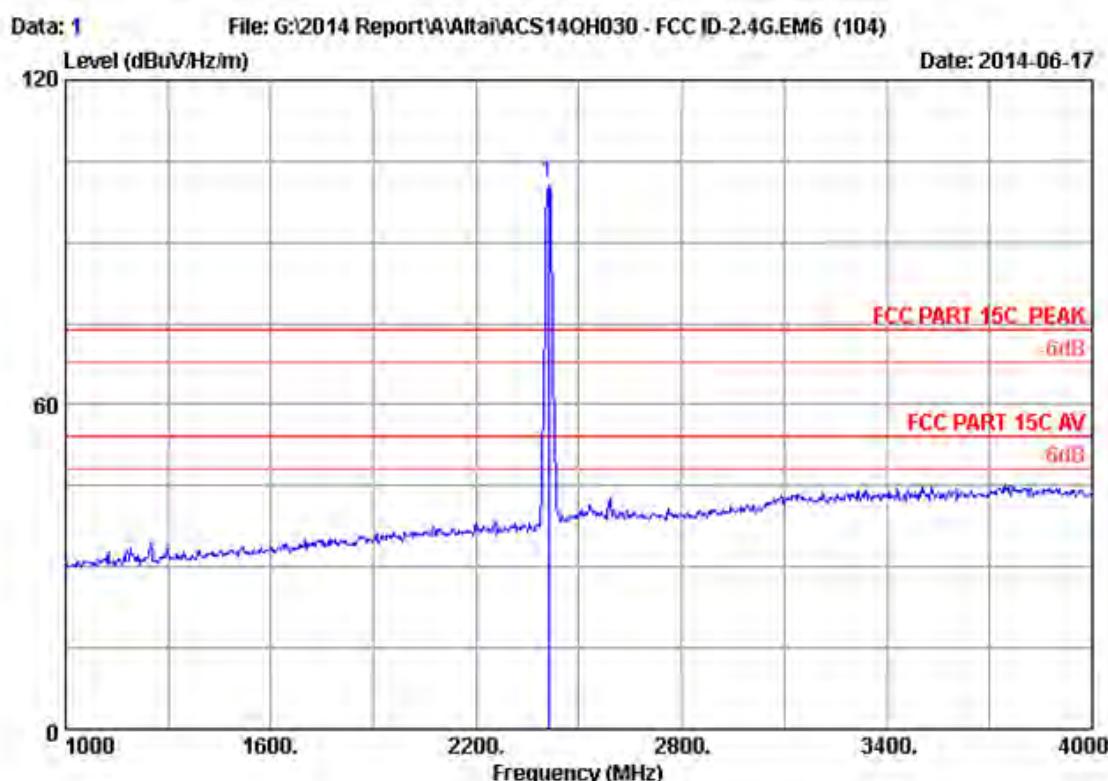
No	Freq (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
					Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.000	20.10	0.60	16.10	36.80	40.00	3.20	QP
2	49.400	9.05	0.77	24.25	34.07	40.00	5.93	QP
3	95.960	10.20	1.09	25.14	36.43	43.50	7.07	QP
4	107.600	11.08	1.19	23.45	35.72	43.50	7.78	QP
5	633.340	20.20	3.85	6.10	30.15	46.00	15.85	QP
6	668.260	20.50	4.00	9.80	34.30	46.00	11.70	QP

Remarks: 1.Emission Level=Antenna Factor+Cable Loss+Reading.

2.The emission Levels that are 20dB below the official limit are not reported

2.4G:

Frequency: 1GHz~6GHz



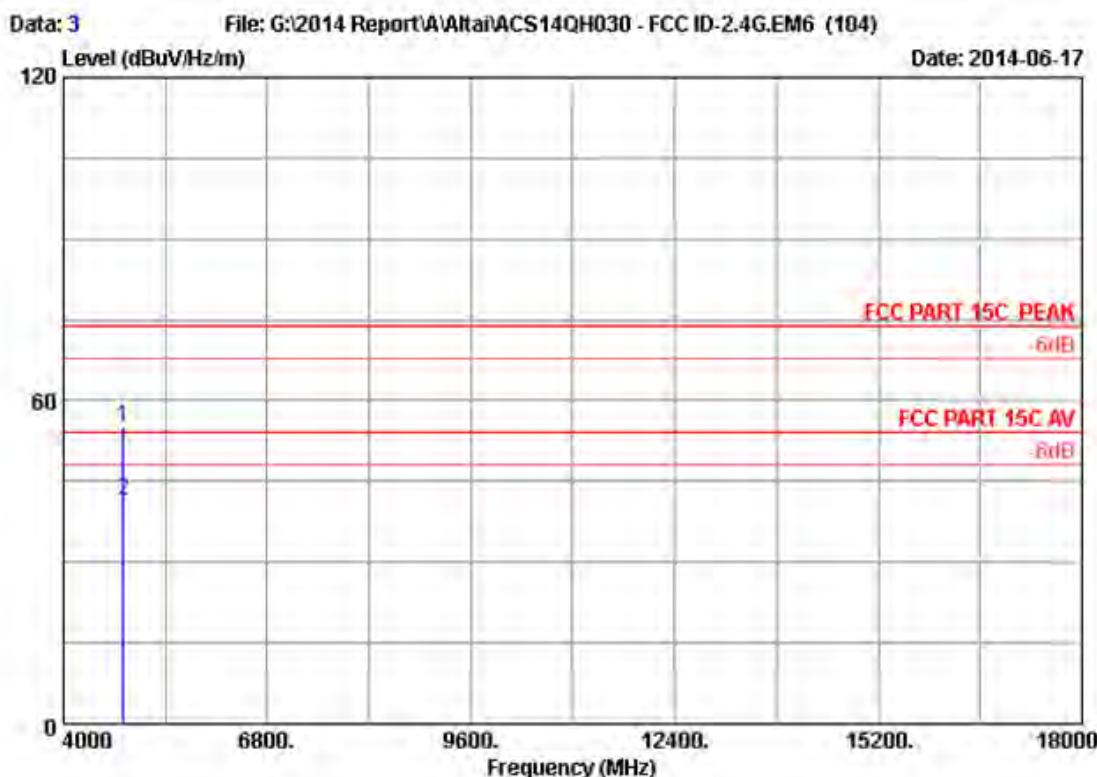
Site no. : 3m Chamber Data no. : 1
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11b 2412MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant. Factor	Cable Loss (dB/m)	AMP factor (dB)	Emission			
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	2412.000	28.21	5.81	35.70	102.67	100.99	74.00	-26.99 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.



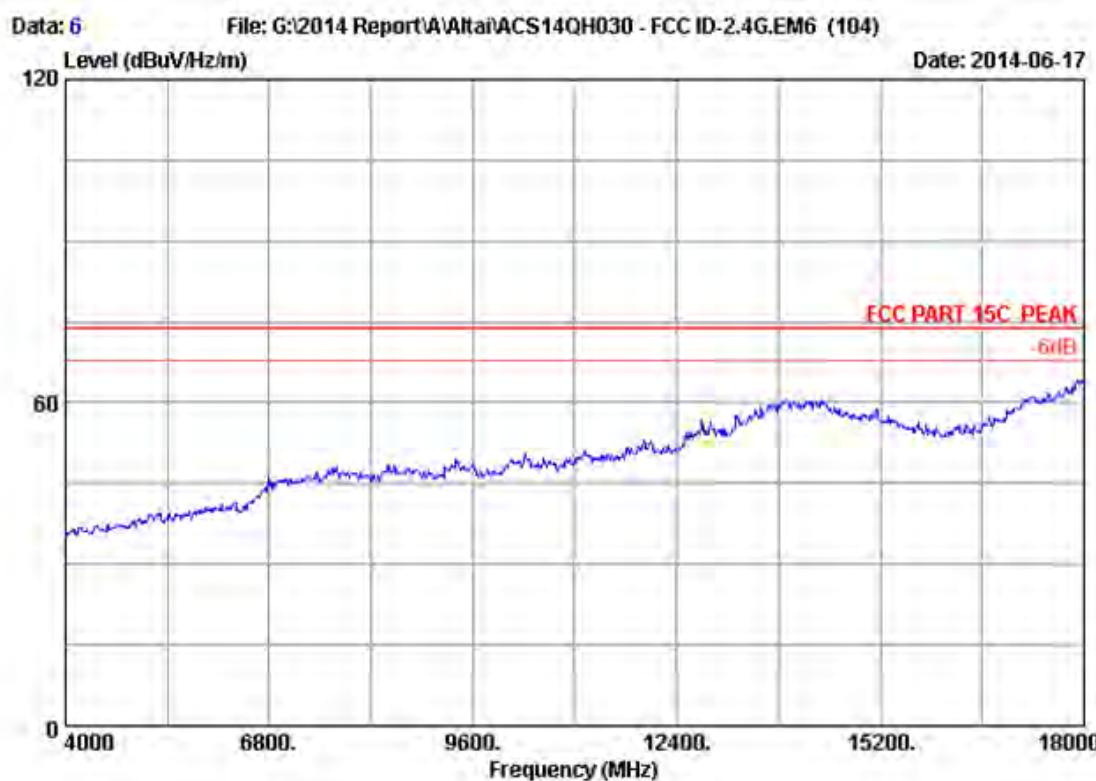
Site no. : 3m Chamber Data no. : 2
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11b 2412MHz Tx
M/N : WA2011N-E



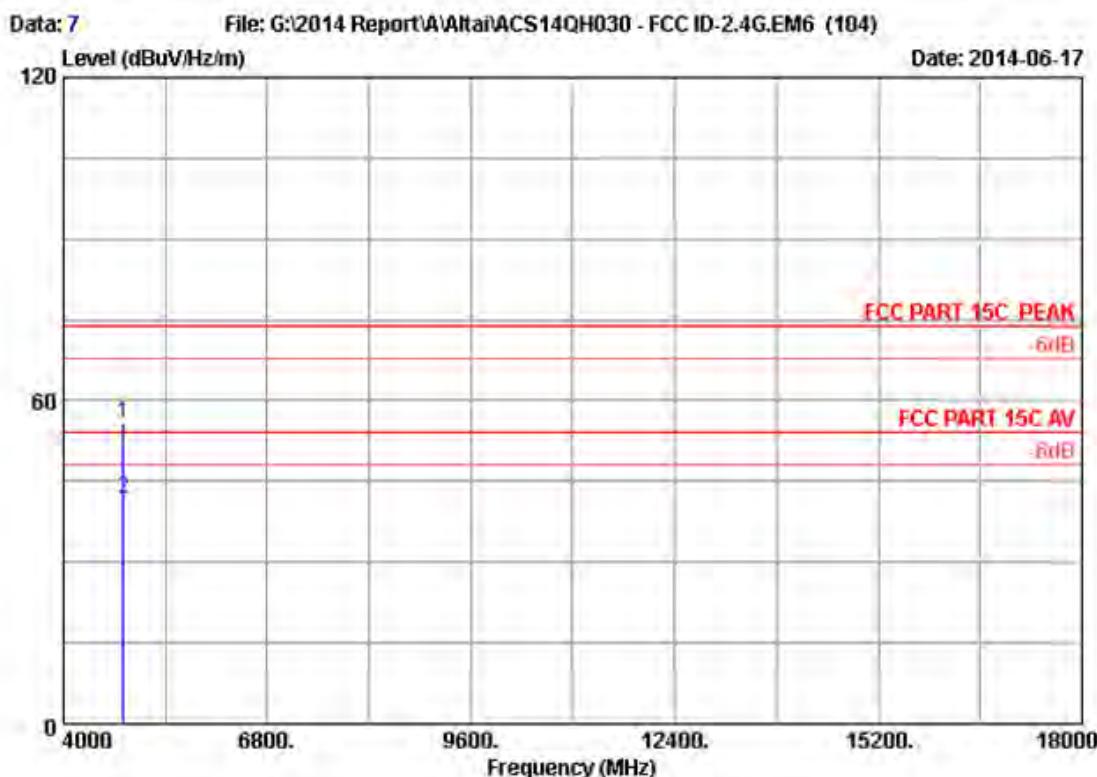
Site no. : 3m Chamber Data no. : 3
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11b 2412MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant. Factor	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission			
						Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	32.88	8.58	35.70	49.23	54.99	74.00	19.01	Peak
2	4824.000	32.88	8.58	35.70	35.57	41.33	54.00	12.67	Average

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



Site no.	:	3m Chamber	Data no. :	6
Dis. / Ant.	:	3m 2013 3115 (4580)	Ant. pol. :	VERTICAL
Limit	:	FCC PART 15C PEAK		
Env. / Ins.	:	24°C/56%	Engineer :	Leo-Li
EUT	:	Altai A2-Ei Dual-band WiFi Access Point		
Power Rating	:	DC 56V From POE Input AC 120V/60Hz		
Test Mode	:	IEEE802.11b 2412MHz Tx		
M/N	:	WA2011N-E		



Site no. : 3m Chamber Data no. : 7
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11b 2412MHz Tx
M/N : WA2011N-E

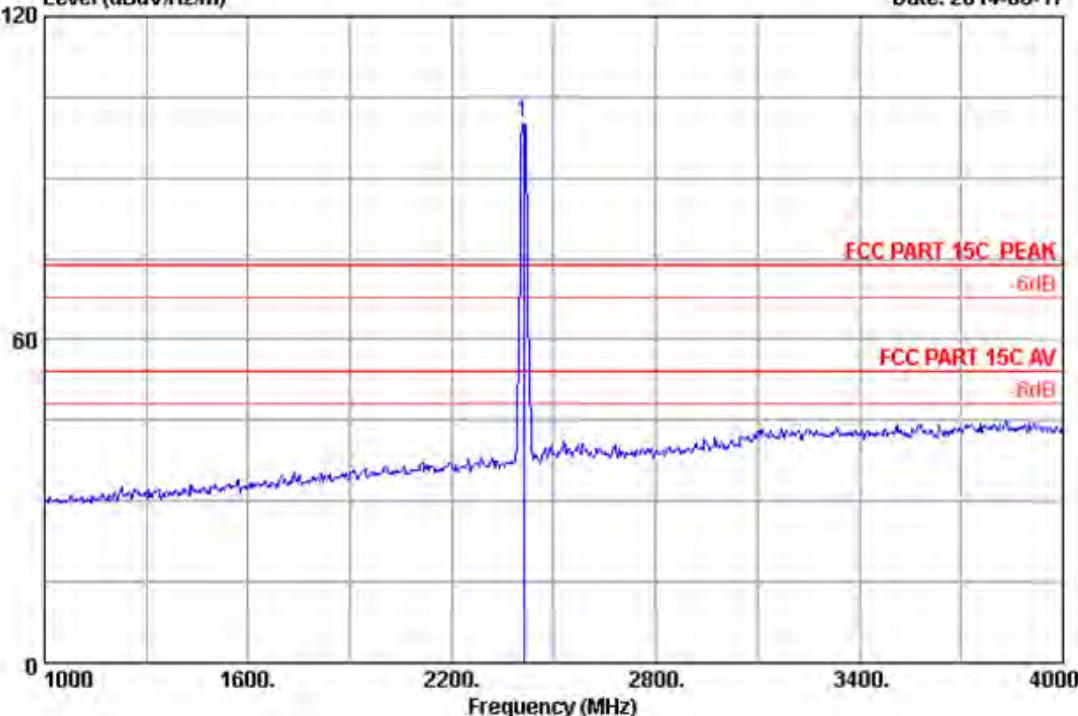
No.	Freq. (MHz)	Ant. Factor	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission			
						Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	32.88	8.58	35.70	50.19	55.95	74.00	18.05	Peak
2	4824.000	32.88	8.58	35.70	36.06	41.84	54.00	12.16	Average

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: 8 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)

Level (dBuV/Hz/m)

Date: 2014-06-17



Site no. : 3m Chamber Data no. : 8
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11b 2412MHz Tx
M/N : WA2011N-E

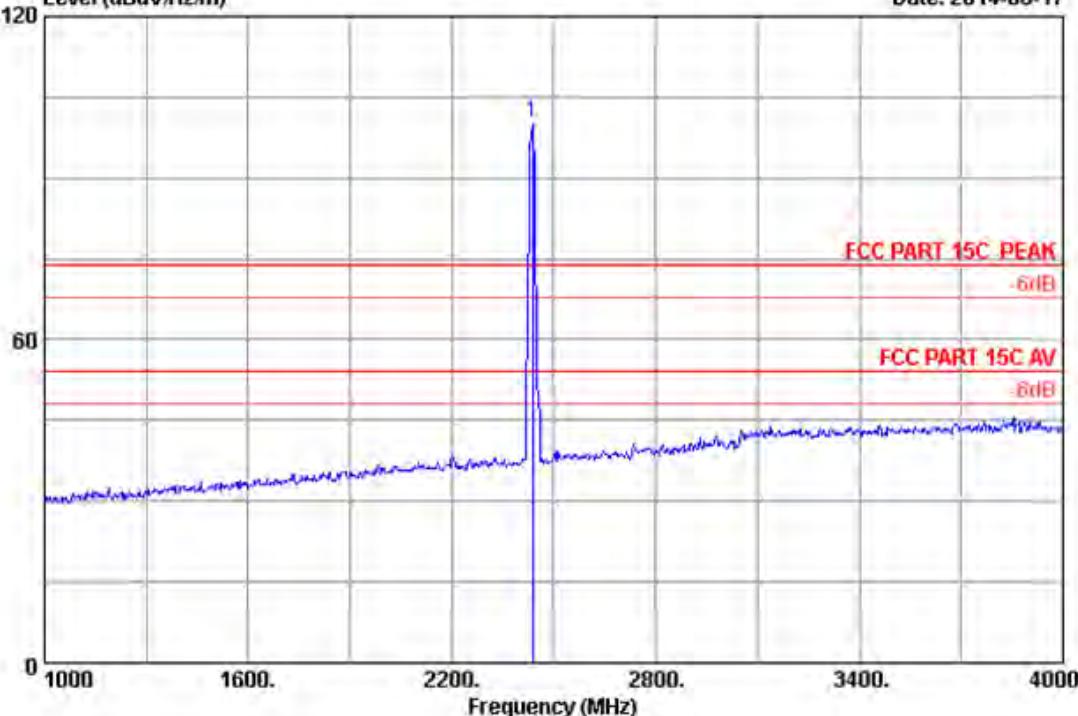
No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	2412.000	28.21	5.81	35.70	101.94	100.26	74.00	-26.26 Peak

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

Data: 11 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)

Level (dBuV/Hz/m)

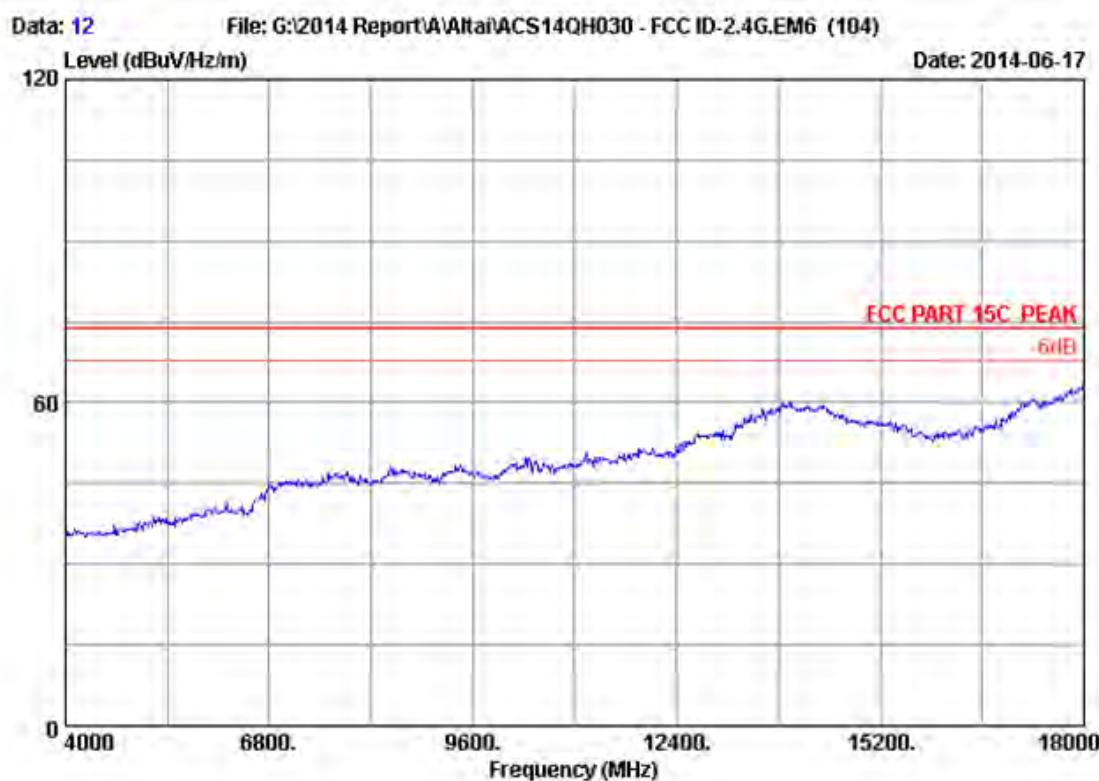
Date: 2014-06-17



Site no. : 3m Chamber Data no. : 11
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11b 2437MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	2437.000	28.26	5.85	35.70	101.90	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.

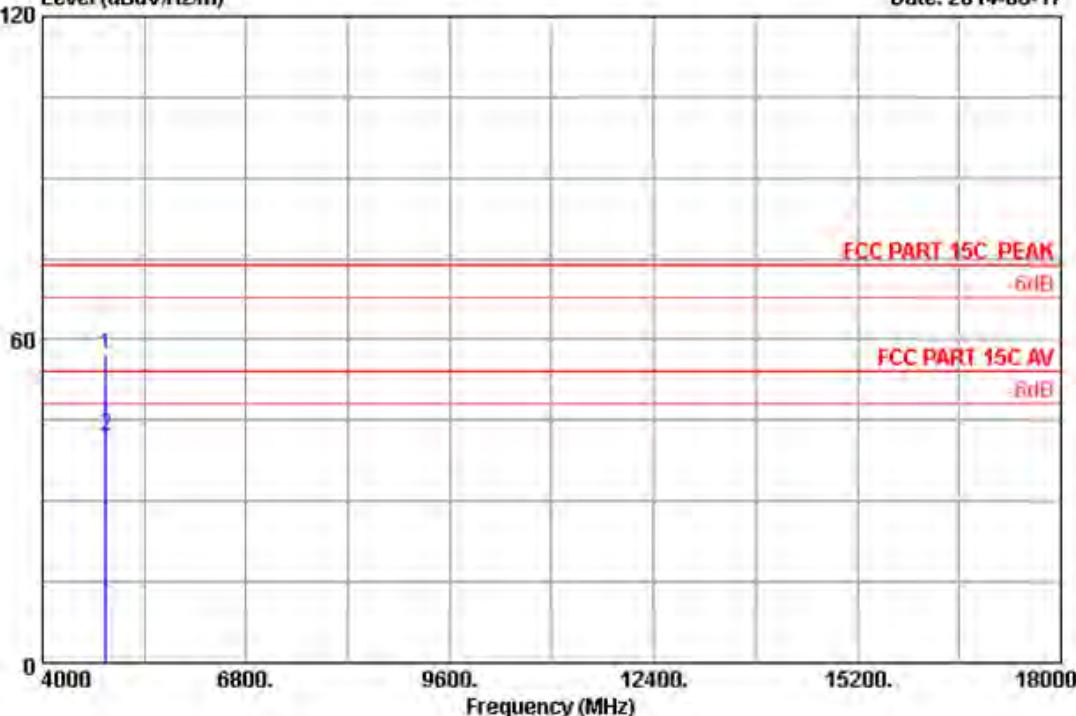


Site no.	:	3m Chamber	Data no. :	12
Dis. / Ant.	:	3m 2013 3115 (4580)	Ant. pol. :	VERTICAL
Limit	:	FCC PART 15C PEAK		
Env. / Ins.	:	24°C/56%	Engineer :	Leo-Li
EUT	:	Altai A2-Ei Dual-band WiFi Access Point		
Power Rating	:	DC 56V From POE Input AC 120V/60Hz		
Test Mode	:	IEEE802.11b 2437MHz Tx		
M/N	:	WA2011N-E		

Data: 13 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)

Level (dBuV/Hz/m)

Date: 2014-06-17



Site no. : 3m Chamber Data no. : 13
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11b 2437MHz Tx
M/N : WA2011N-E

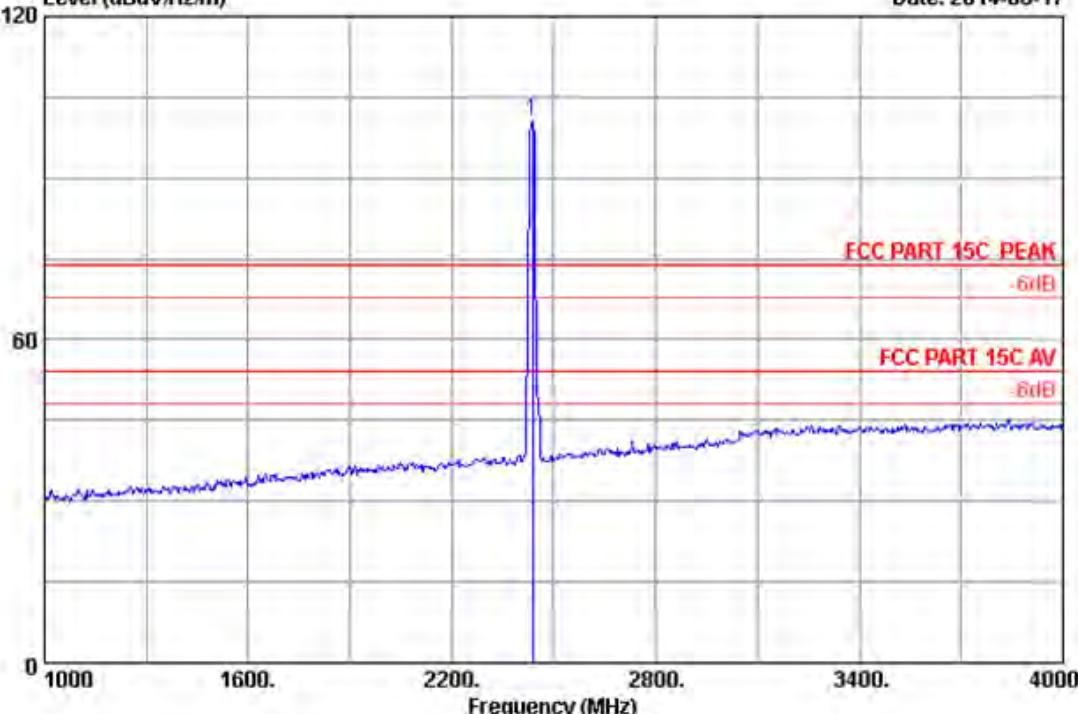
No.	Freq. (MHz)	Ant.	Cable	AMP	Emission				
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	32.97	8.63	35.70	51.27	57.17	74.00	16.83	Peak
2	4874.000	32.97	8.63	35.70	36.19	42.09	54.00	11.91	Average

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: 14 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)

Level (dBuV/Hz/m)

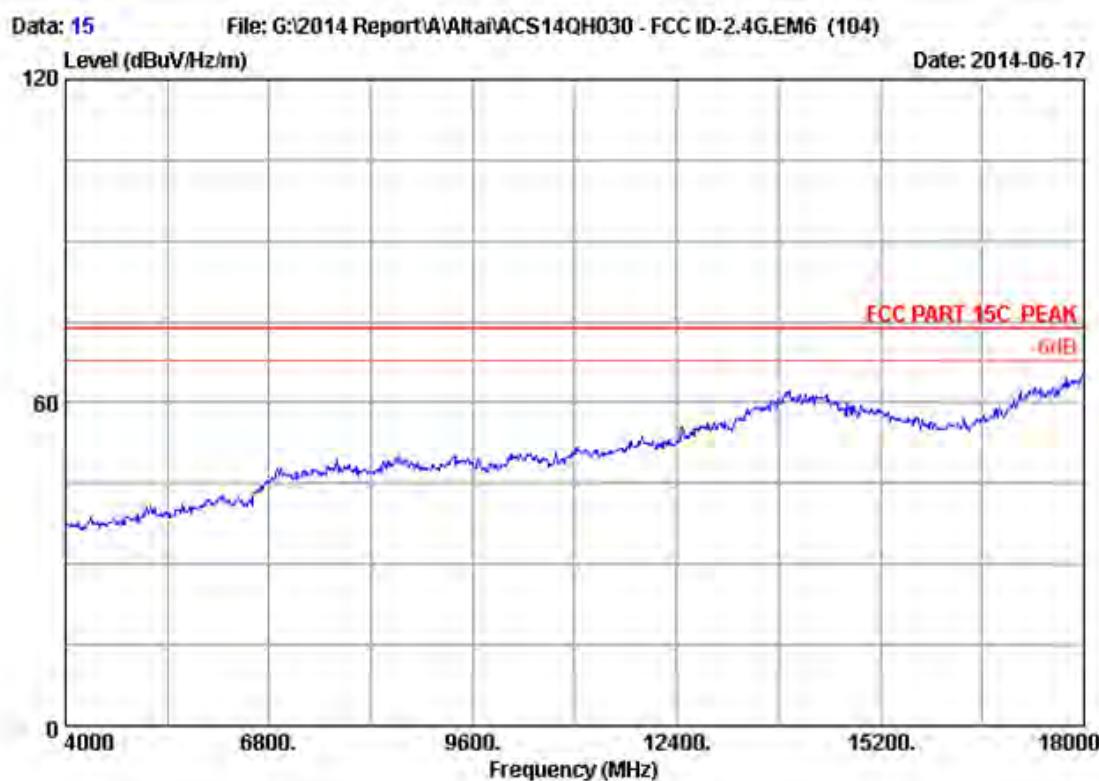
Date: 2014-06-17



Site no. : 3m Chamber Data no. : 14
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11b 2437MHz Tx
M/N : WA2011N-E

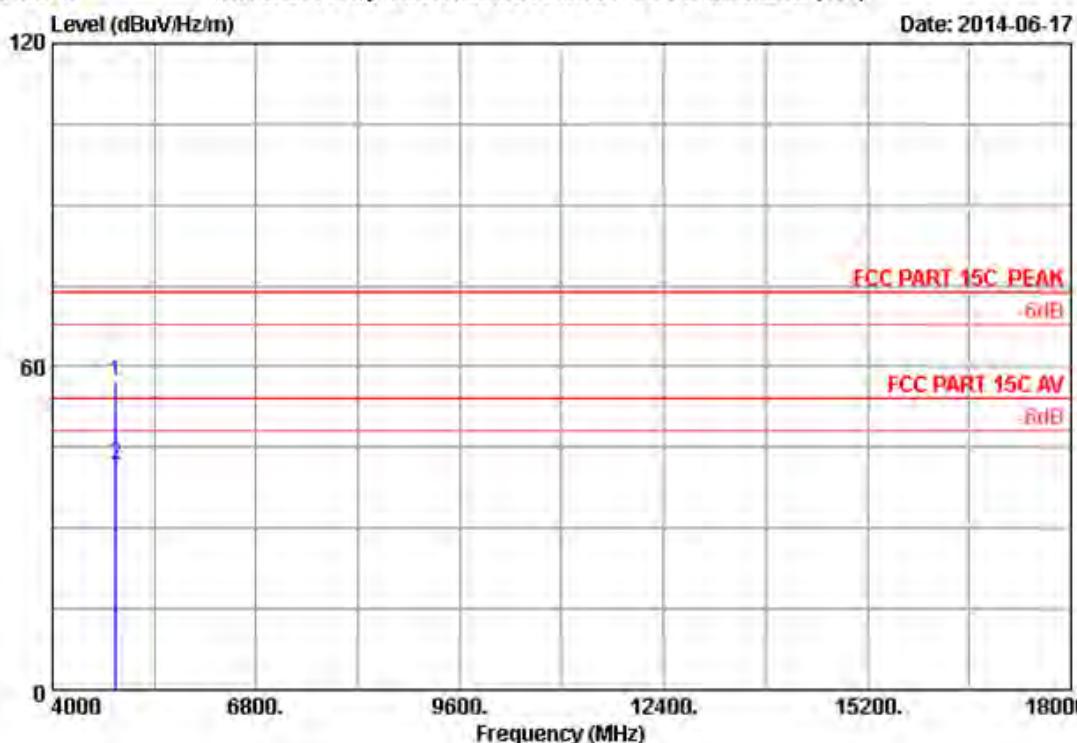
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission			
						Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.000	28.26	5.85	35.70	102.07	100.48	74.00	-26.48	Peak

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. :	15
Dis. / Ant.	:	3m 2013 3115 (4580)	Ant. pol. :	HORIZONTAL
Limit	:	FCC PART 15C PEAK		
Env. / Ins.	:	24°C/56%	Engineer :	Leo-Li
EUT	:	Altai A2-Ei Dual-band WiFi Access Point		
Power Rating	:	DC 56V From POE Input AC 120V/60Hz		
Test Mode	:	IEEE802.11b 2437MHz Tx		
M/N	:	WA2011N-E		

Data: 16 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)

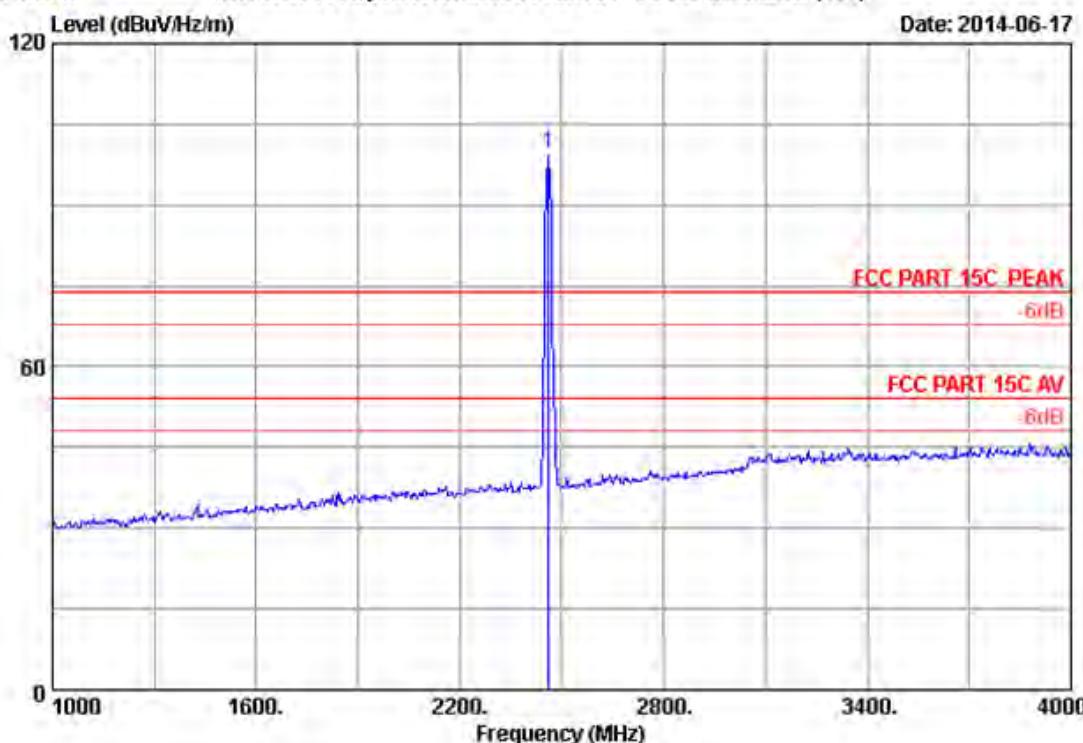


Site no. : 3m Chamber Data no. : 16
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11b 2437MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission				
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	32.97	8.63	35.70	51.10	57.00	74.00	17.00	Peak
2	4874.000	32.97	8.63	35.70	35.76	41.66	54.00	12.34	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.

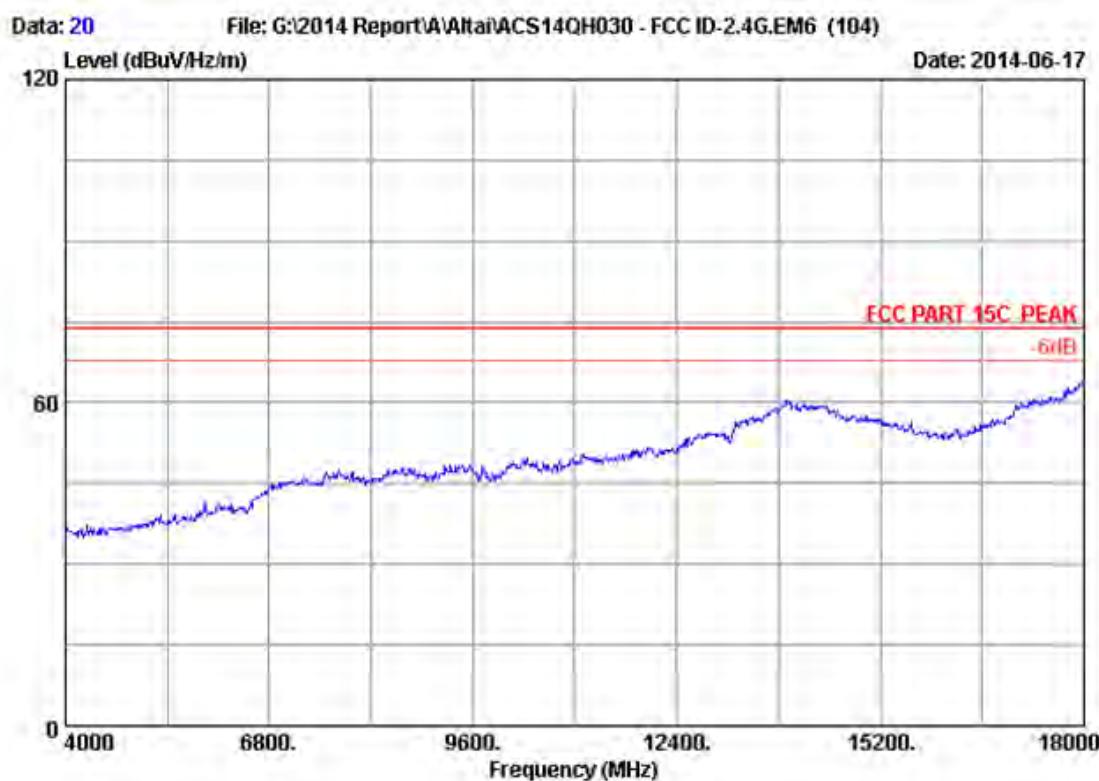
Data: 17 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)



Site no. : 3m Chamber Data no. : 17
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11b 2462MHz Tx
M/N : WA2011N-E

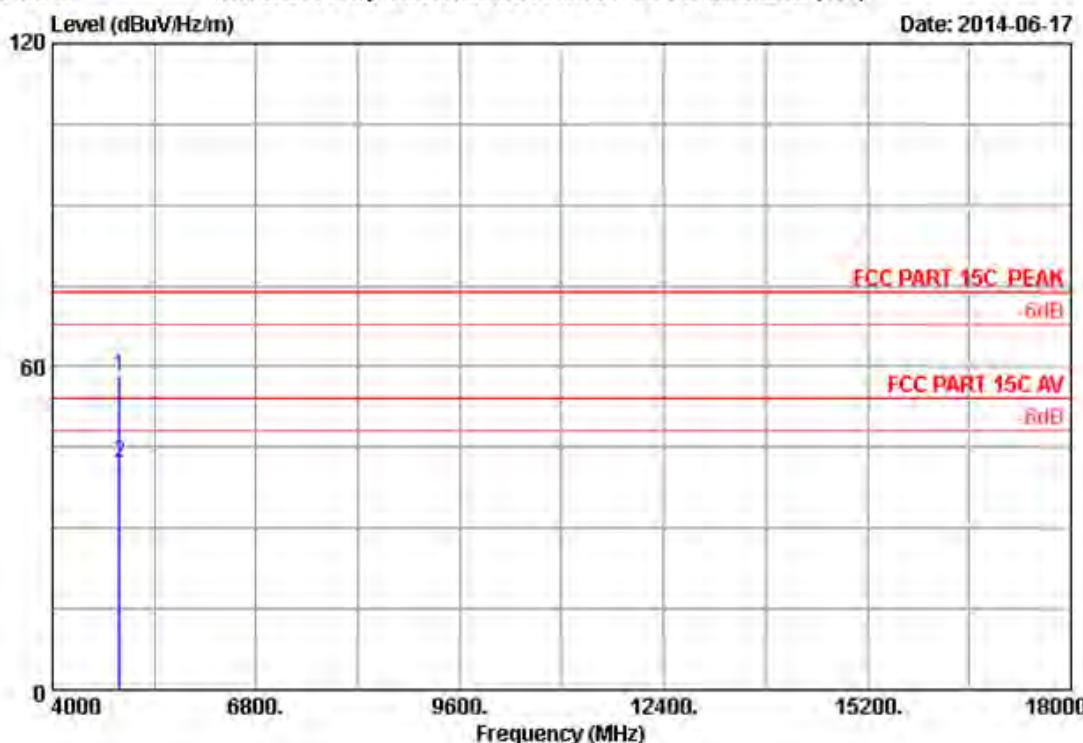
No.	Freq. (MHz)	Ant. Factor	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission			
						Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.000	28.32	5.89	35.70	100.95	99.46	74.00	-25.46	Peak

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. :	20
Dis. / Ant.	:	3m 2013 3115 (4580)	Ant. pol. :	HORIZONTAL
Limit	:	FCC PART 15C PEAK		
Env. / Ins.	:	24°C/56%	Engineer :	Leo-Li
EUT	:	Altai A2-Ei Dual-band WiFi Access Point		
Power Rating	:	DC 56V From POE Input AC 120V/60Hz		
Test Mode	:	IEEE802.11b 2462MHz Tx		
M/N	:	WA2011N-E		

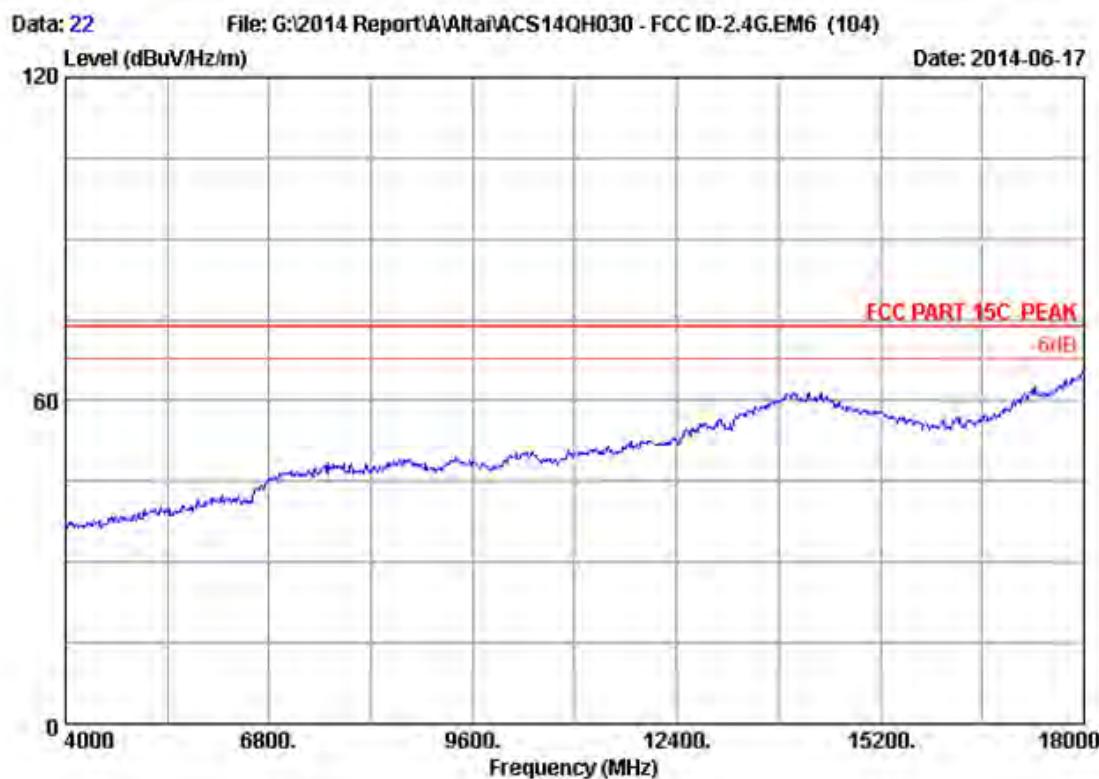
Data: 21 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)



Site no. : 3m Chamber Data no. : 21
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11b 2462MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission				
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	33.06	8.69	35.70	52.05	58.10	74.00	15.90	Peak
2	4924.000	33.06	8.69	35.70	36.07	42.12	54.00	11.88	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.

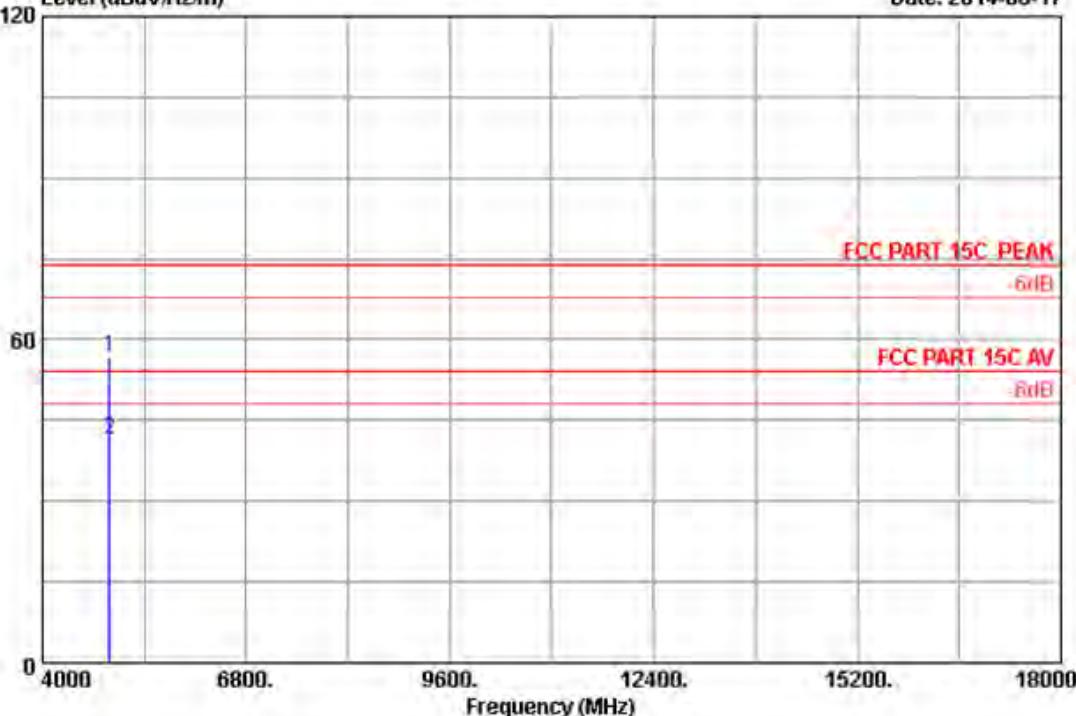


Site no. : 3m Chamber Data no. : 22
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11b 2462MHz Tx
M/N : WA2011N-E

Data: 23 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)

Level (dBuV/Hz/m)

Date: 2014-06-17



Site no. : 3m Chamber Data no. : 23
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11b 2462MHz Tx
M/N : WA2011N-E

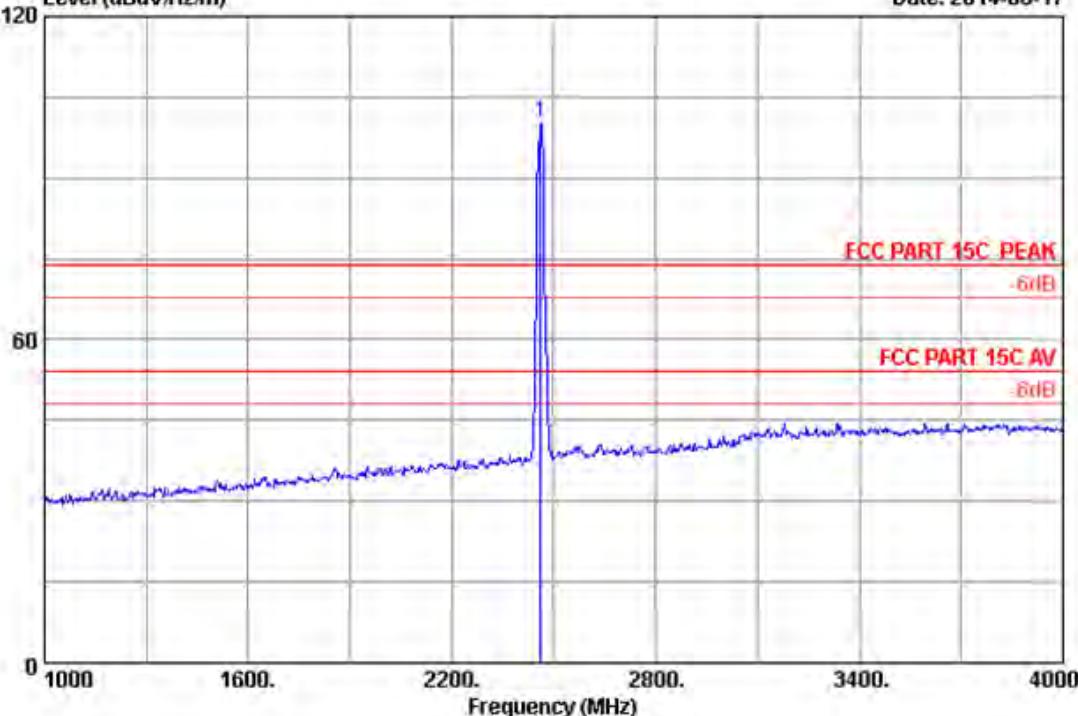
No.	Freq. (MHz)	Ant.	Cable	AMP	Emission				
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	33.06	8.69	35.70	50.74	56.79	74.00	17.21	Peak
2	4924.000	33.06	8.69	35.70	35.48	41.53	54.00	12.47	Average

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: 24 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)

Level (dBuV/Hz/m)

Date: 2014-06-17



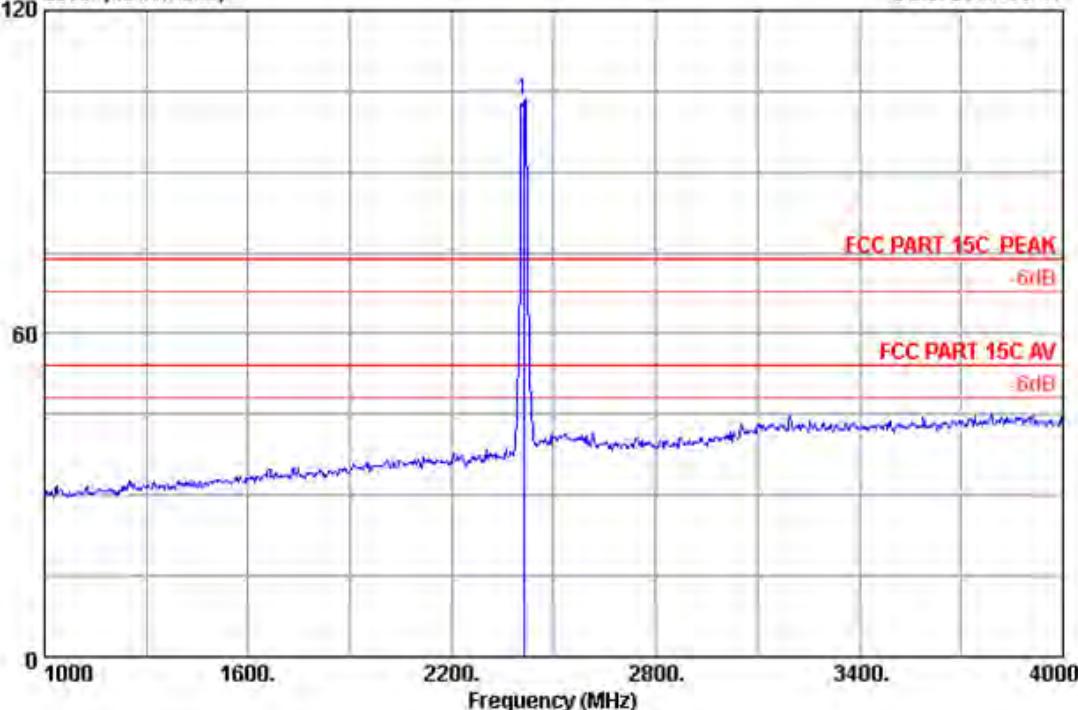
Site no. : 3m Chamber Data no. : 24
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11b 2462MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant. Factor	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission		
						Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	2462.000	28.32	5.89	35.70	101.84	100.35	74.00	-26.35 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.

Data: 27 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)

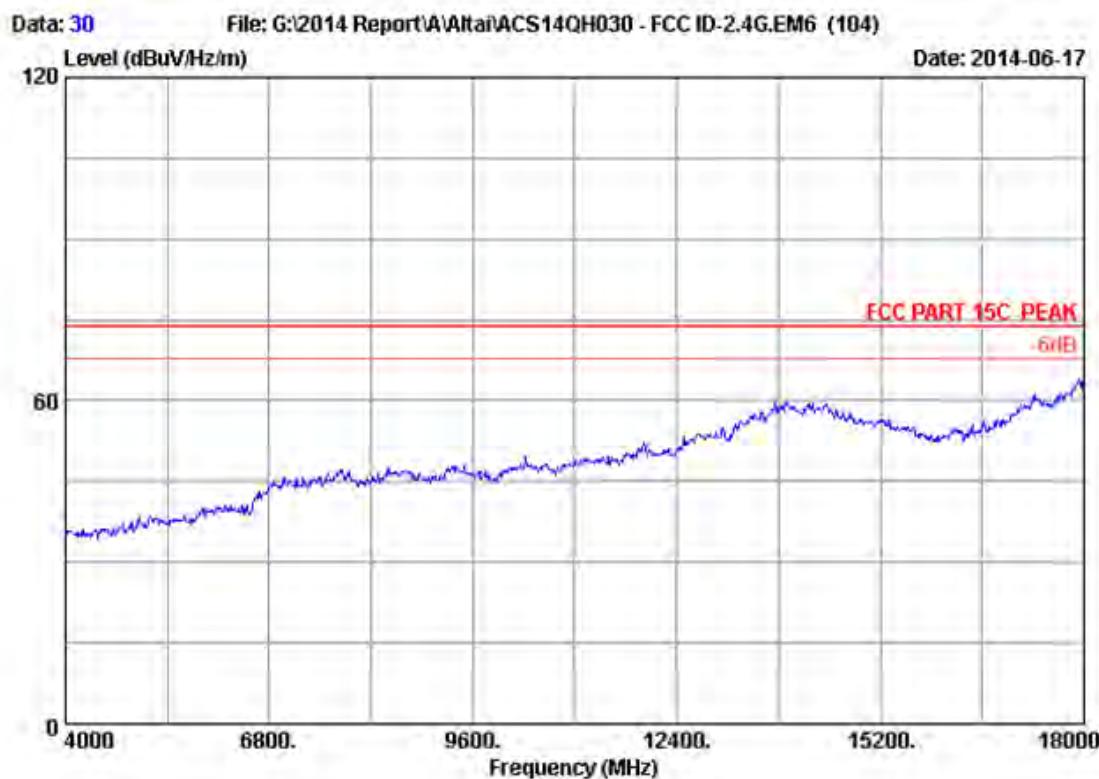
Level (dBuV/Hz/m) Date: 2014-06-17



Site no. : 3m Chamber Data no. : 27
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11g 2412MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Emission			
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	2412.000	28.21	5.81	35.70	104.87	103.19	74.00	-29.19 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.

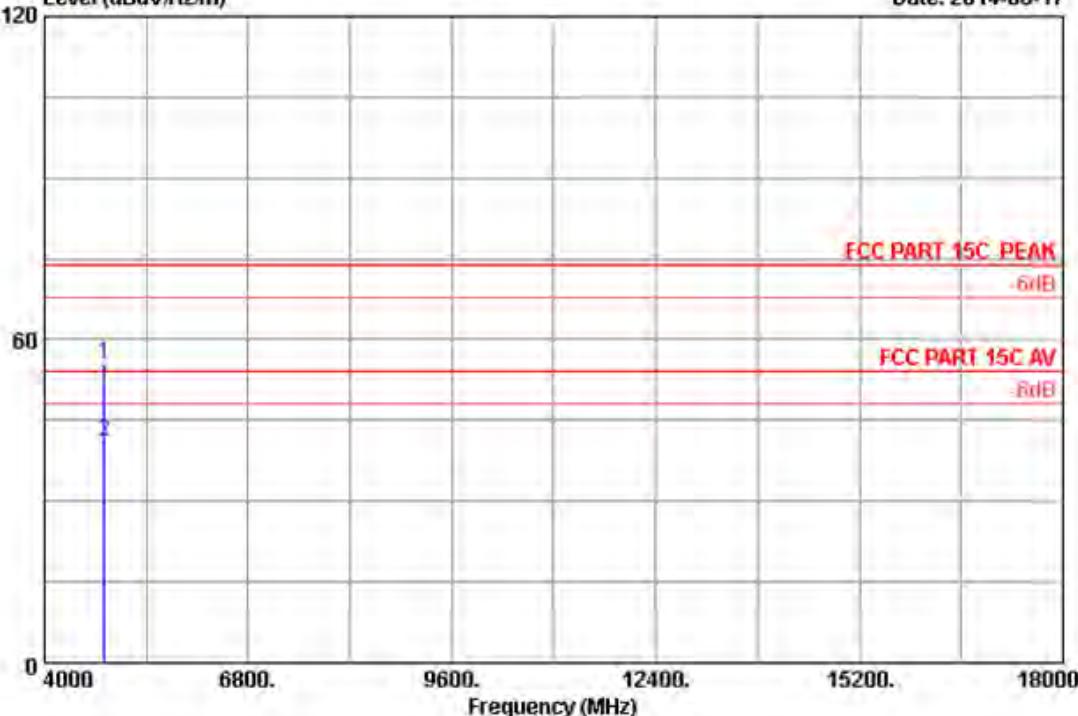


Site no.	:	3m Chamber	Data no. :	30
Dis. / Ant.	:	3m 2013 3115 (4580)	Ant. pol. :	VERTICAL
Limit	:	FCC PART 15C PEAK		
Env. / Ins.	:	24°C/56%	Engineer :	Leo-Li
EUT	:	Altai A2-Ei Dual-band WiFi Access Point		
Power Rating	:	DC 56V From POE Input AC 120V/60Hz		
Test Mode	:	IEEE802.11g 2412MHz Tx		
M/N	:	WA2011N-E		

Data: 31 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)

Level (dBuV/Hz/m)

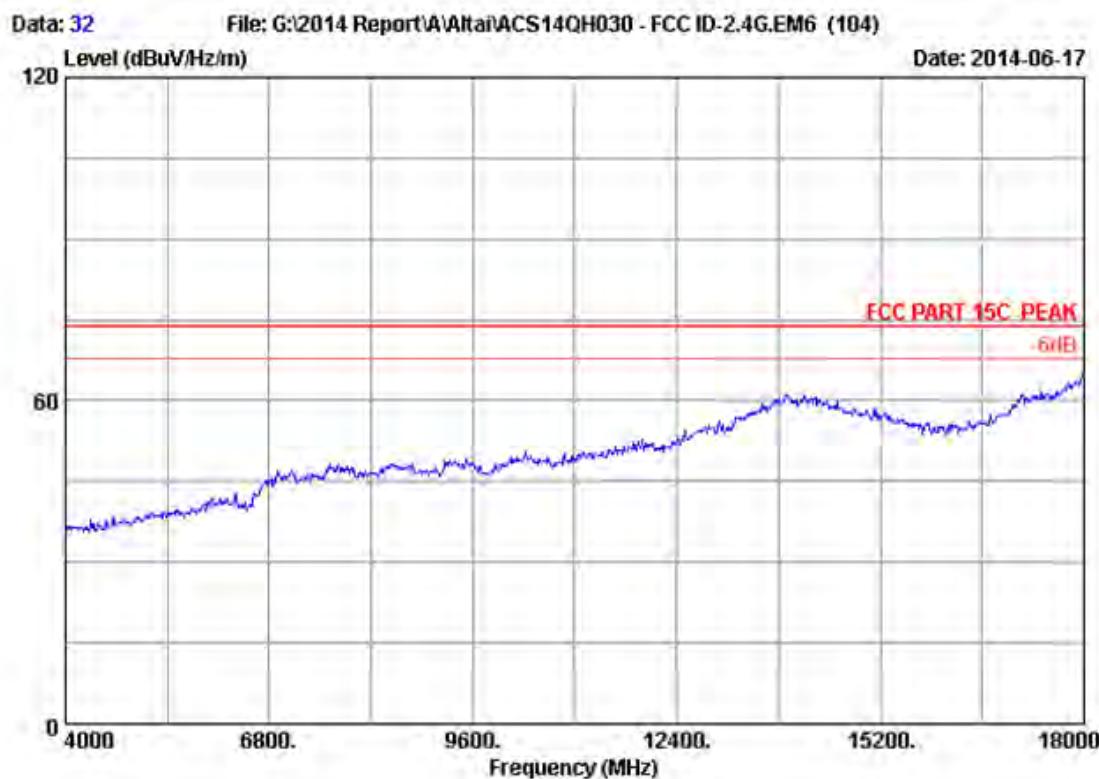
Date: 2014-06-17



Site no. : 3m Chamber Data no. : 31
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11g 2412MHz Tx
M/N : WA2011N-E

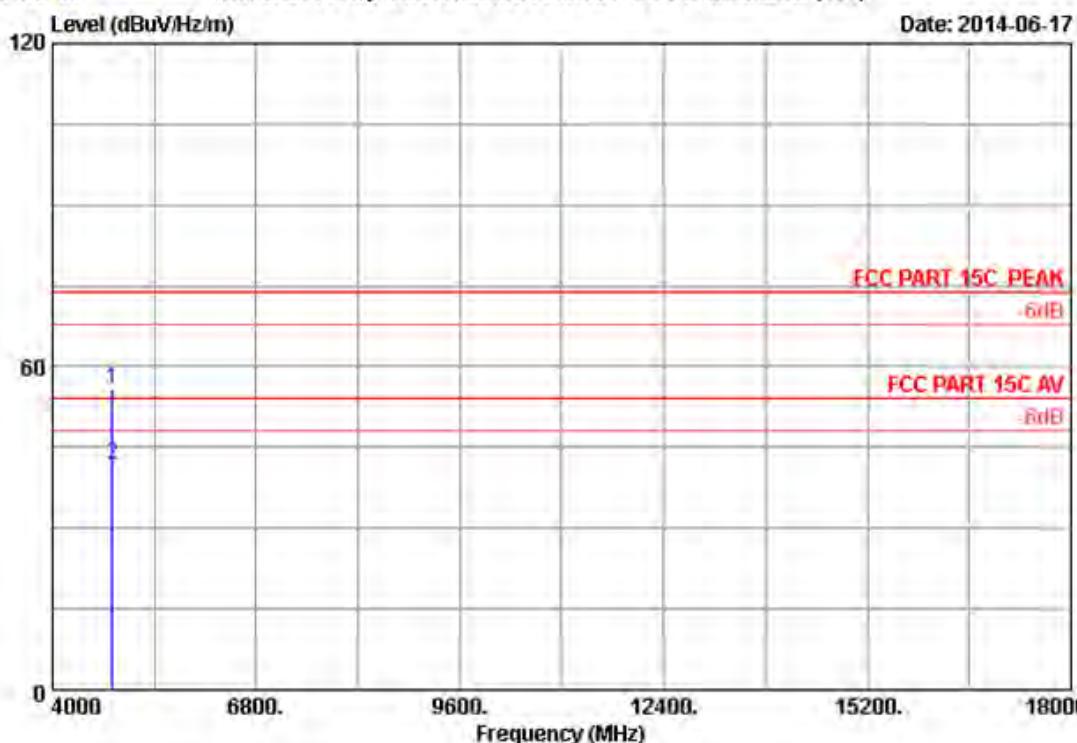
No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	4824.000	32.88	8.58	35.70	49.76	55.52	74.00	18.48 Peak
2	4824.000	32.88	8.58	35.70	35.19	40.95	54.00	13.05 Average

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 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11g 2412MHz Tx
M/N : WA2011N-E

Data: 33 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)



Site no. : 3m Chamber Data no. : 33
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11g 2412MHz Tx
M/N : WA2011N-E

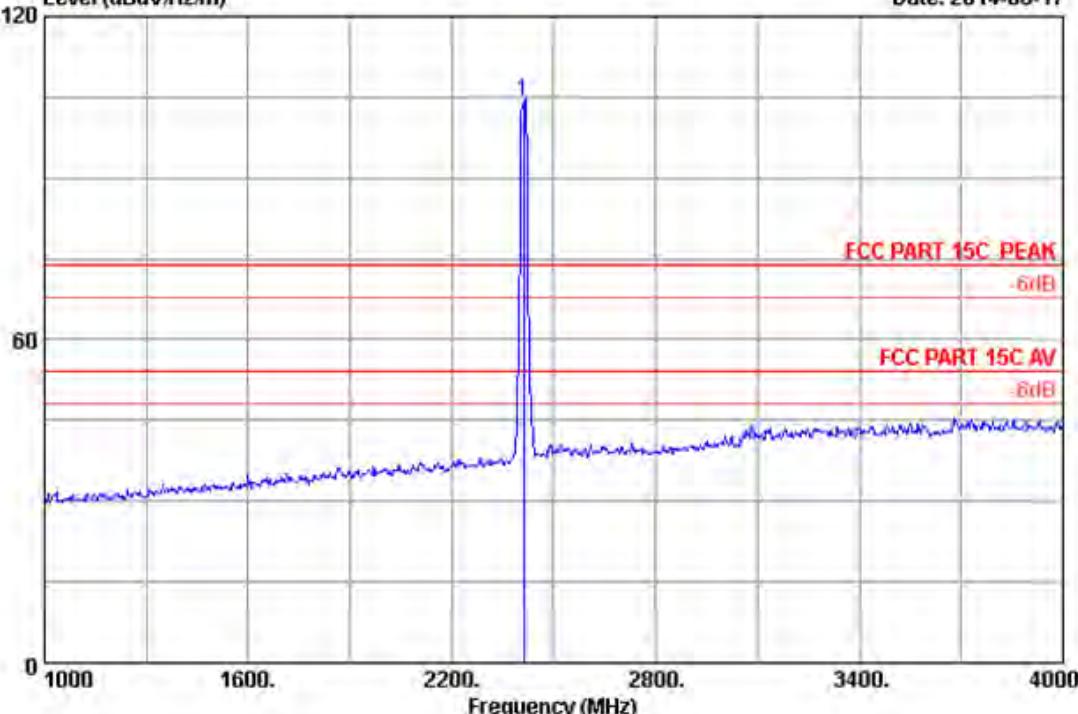
No.	Freq. (MHz)	Ant. Factor	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission			
						Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	32.88	8.58	35.70	50.18	55.94	74.00	18.06	Peak
2	4824.000	32.88	8.58	35.70	36.09	41.85	54.00	12.15	Average

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

Data: 34 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)

Level (dBuV/Hz/m)

Date: 2014-06-17



Site no. : 3m Chamber Data no. : 34
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11g 2412MHz Tx
M/N : WA2011N-E

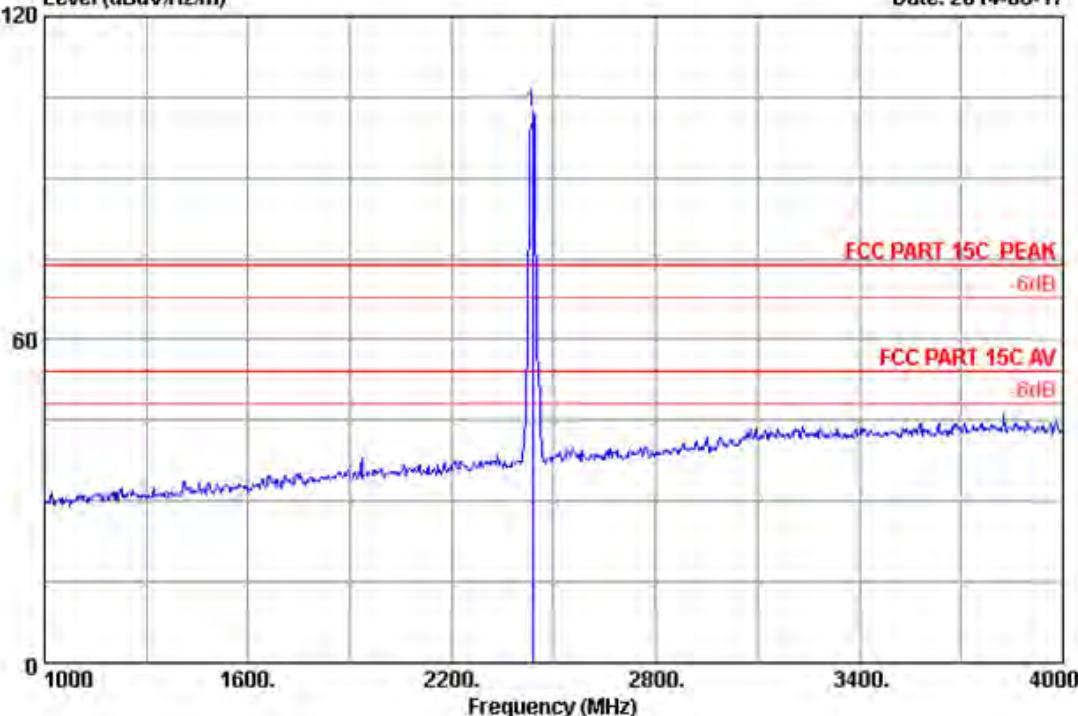
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Emission			
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	2412.000	28.21	5.81	35.70	105.91	104.23	74.00	-30.23 Peak

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.

Data: 37 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)

Level (dBuV/Hz/m)

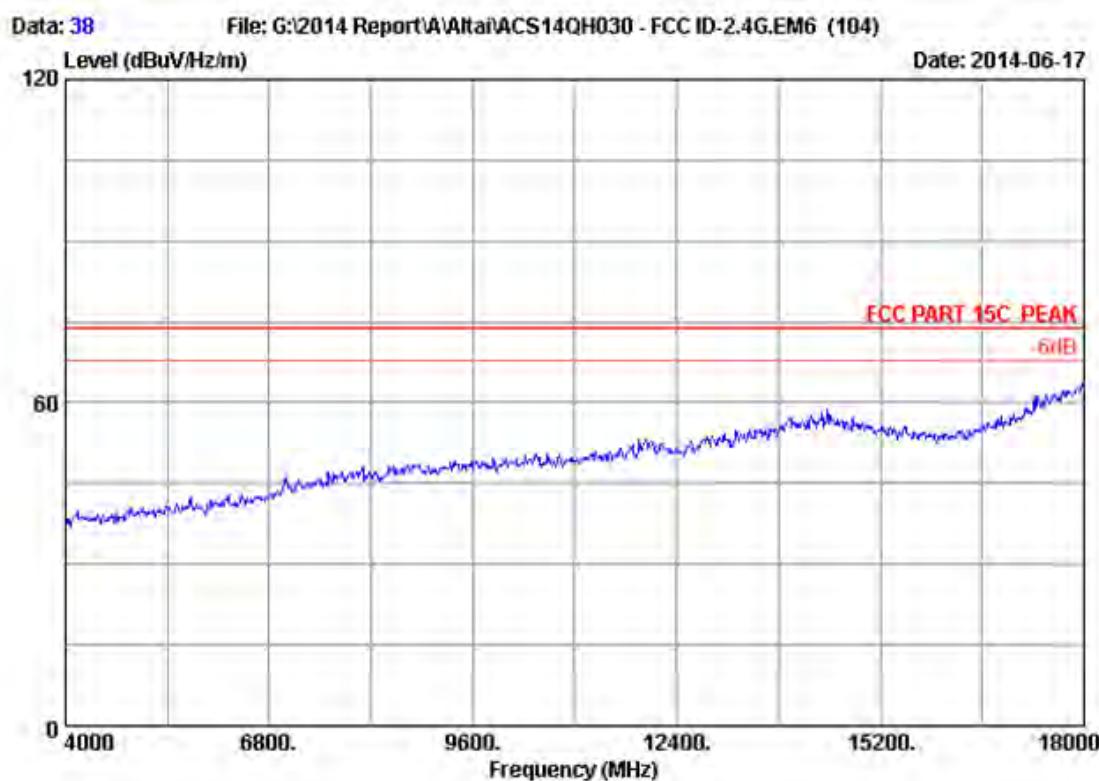
Date: 2014-06-17



Site no. : 3m Chamber Data no. : 37
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11g 2437MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	2437.000	28.26	5.85	35.70	103.86	102.27	74.00	-28.27 Peak

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

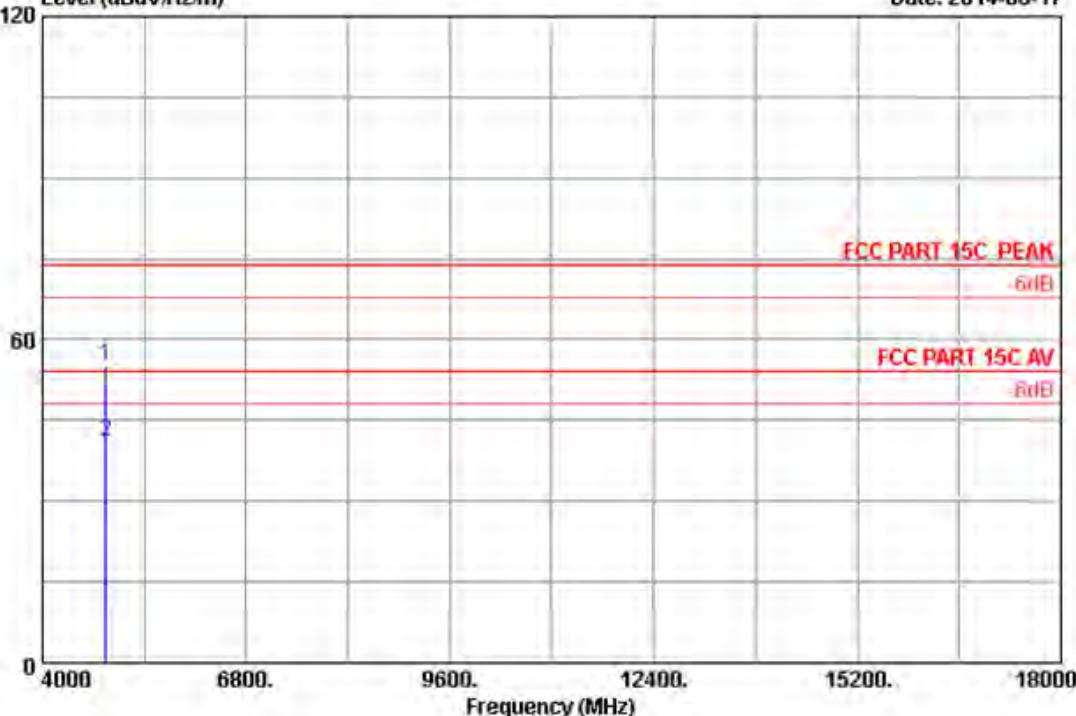


Site no.	:	3m Chamber	Data no. :	38
Dis. / Ant.	:	3m 2013 3115 (4580)	Ant. pol. :	HORIZONTAL
Limit	:	FCC PART 15C PEAK		
Env. / Ins.	:	24°C/56%	Engineer :	Leo-Li
EUT	:	Altai A2-Ei Dual-band WiFi Access Point		
Power Rating	:	DC 56V From POE Input AC 120V/60Hz		
Test Mode	:	IEEE802.11g 2437MHz Tx		
M/N	:	WA2011N-E		

Data: 39 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)

Level (dBuV/Hz/m)

Date: 2014-06-17



Site no. : 3m Chamber Data no. : 39
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11g 2437MHz Tx
M/N : WA2011N-E

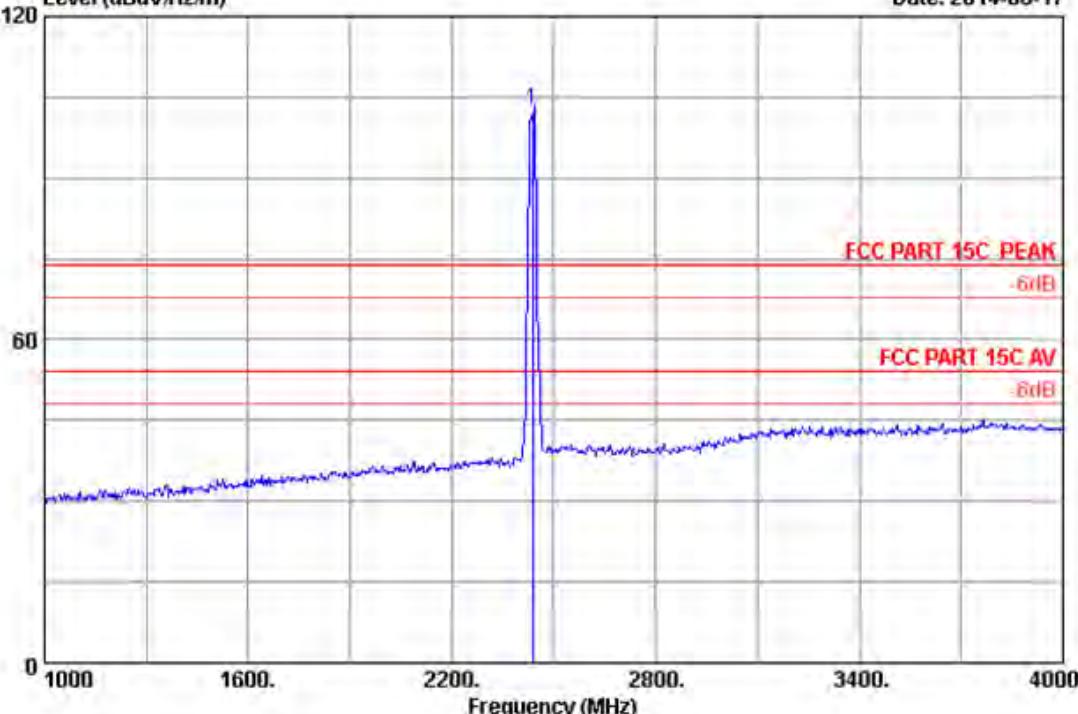
No.	Freq. (MHz)	Ant. Factor	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission			
						Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	32.97	8.63	35.70	49.17	55.07	74.00	18.93	Peak
2	4874.000	32.97	8.63	35.70	35.19	41.09	54.00	12.91	Average

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: 40 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)

Level (dBuV/Hz/m)

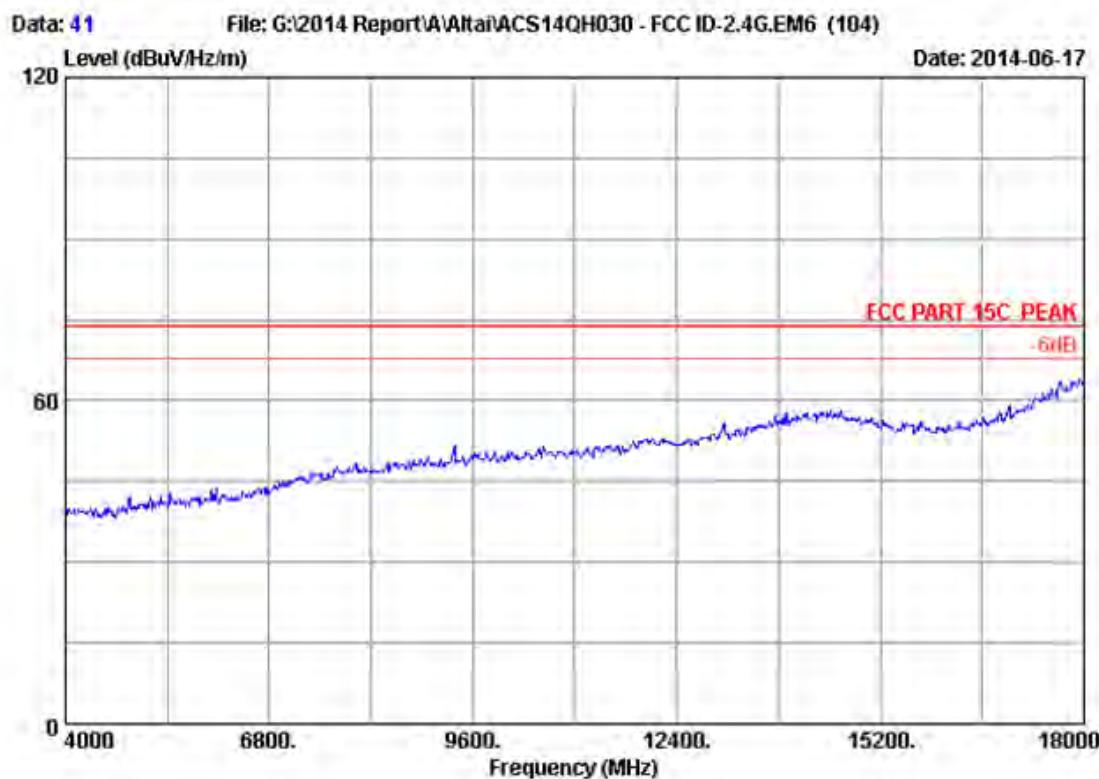
Date: 2014-06-17



Site no. : 3m Chamber Data no. : 40
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11g 2437MHz Tx
M/N : WA2011N-E

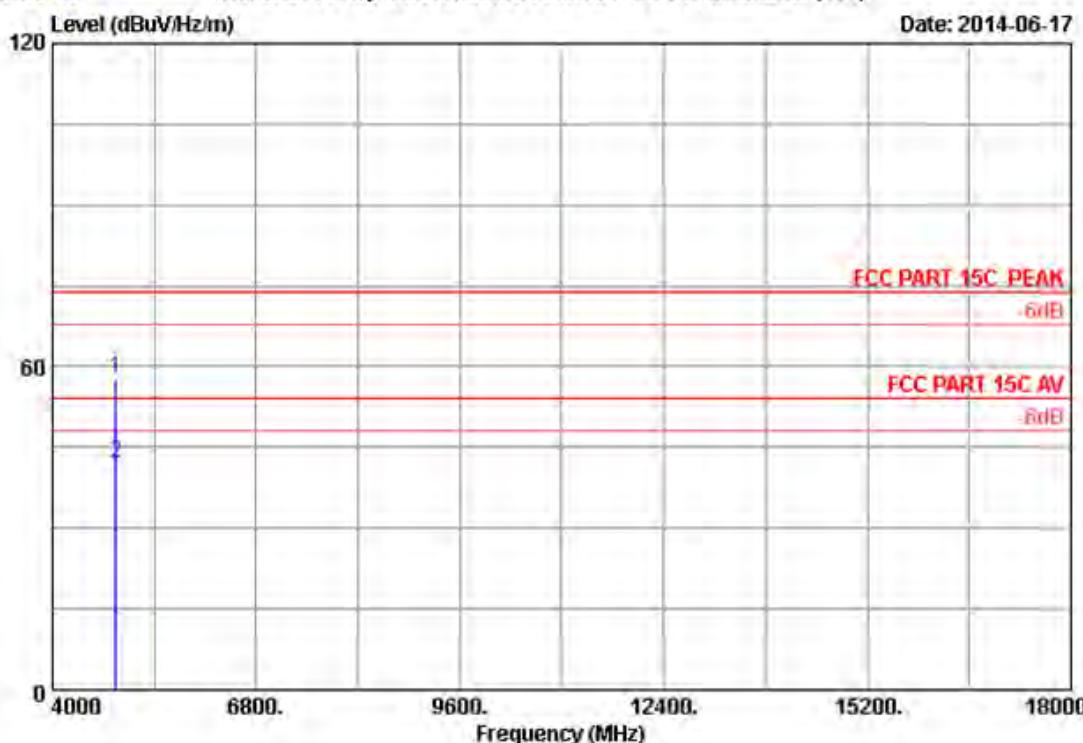
No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	2437.000	28.26	5.85	35.70	104.18	102.59	74.00	-28.59 Peak

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. : 41
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11g 2437MHz Tx
M/N : WA2011N-E

Data: 42 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)



Site no. : 3m Chamber Data no. : 42
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11g 2437MHz Tx
M/N : WA2011N-E

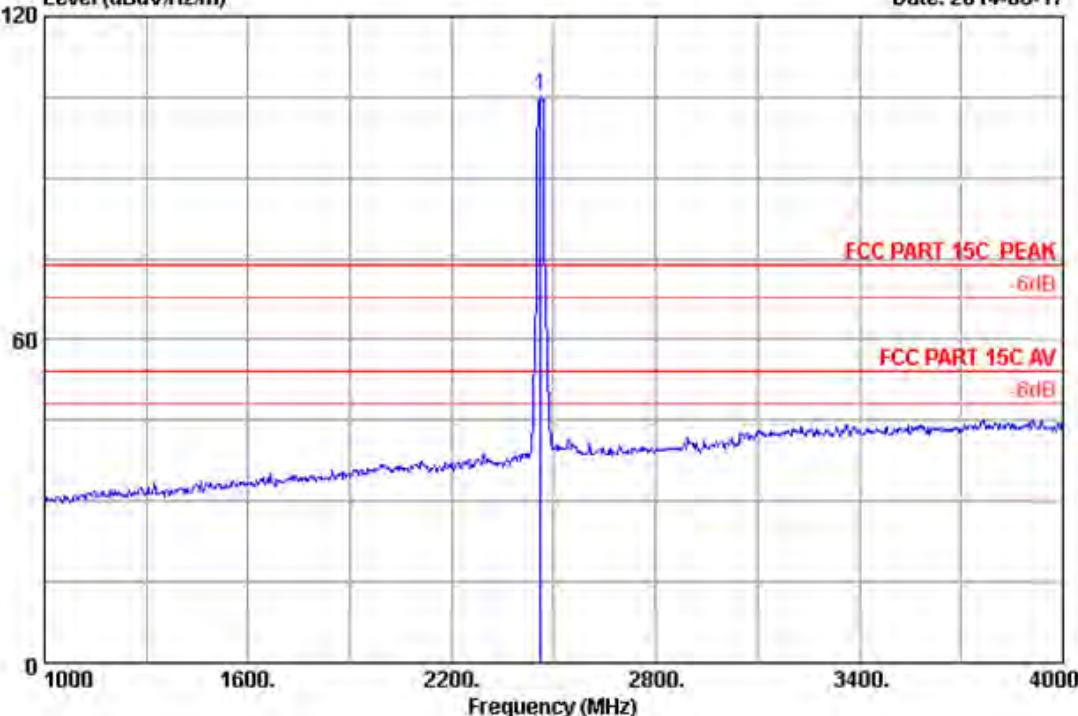
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission			
						Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	32.97	8.63	35.70	52.07	57.97	74.00	16.03	Peak
2	4874.000	32.97	8.63	35.70	36.29	42.19	54.00	11.81	Average

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: 43 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)

Level (dBuV/Hz/m)

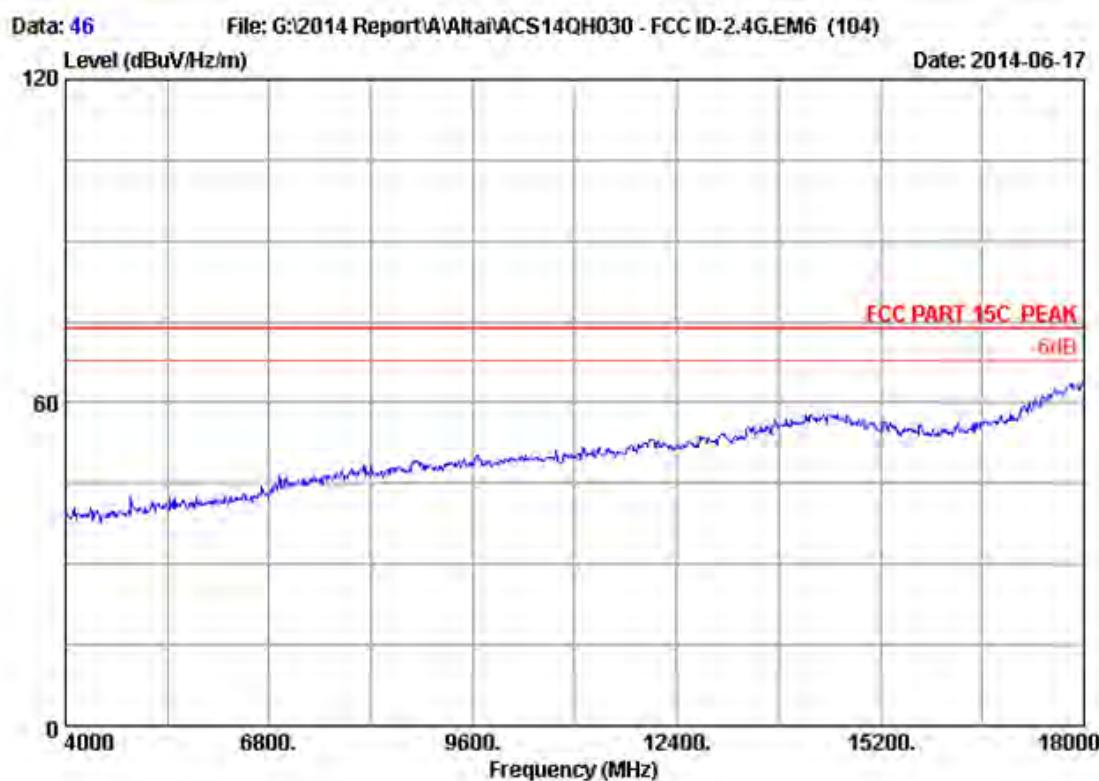
Date: 2014-06-17



Site no. : 3m Chamber Data no. : 43
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11g 2462MHz Tx
M/N : WA2011N-E

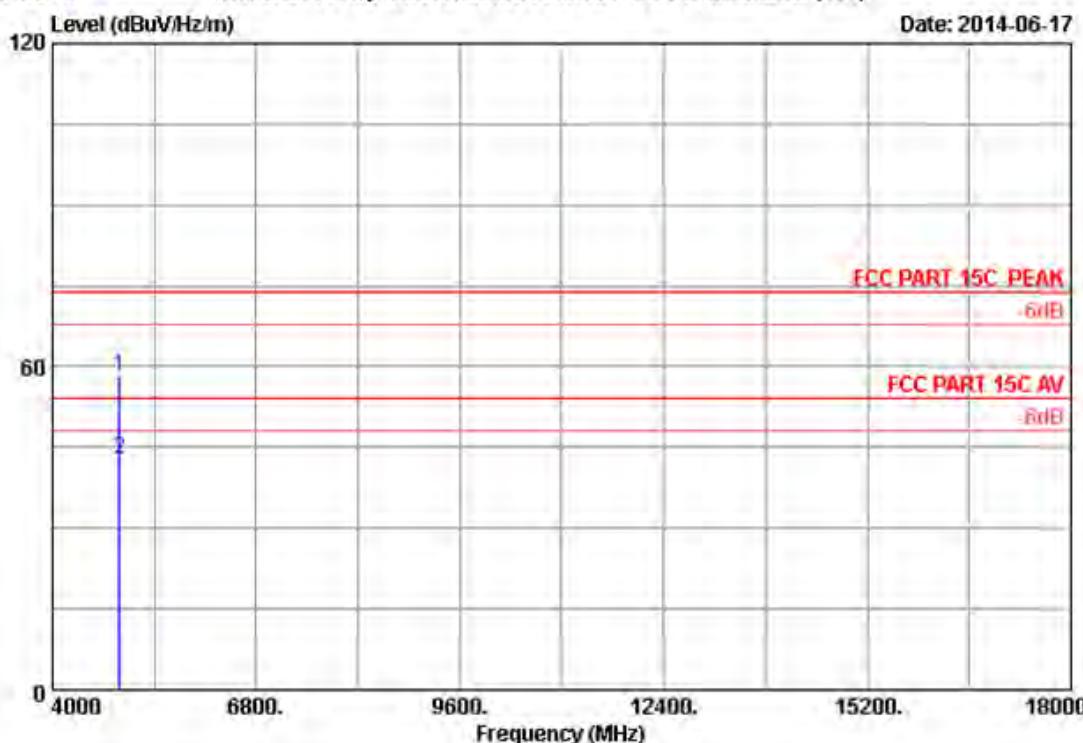
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Emission			
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	2462.000	28.32	5.89	35.70	106.84	105.35	74.00	-31.35 Peak

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. :	46
Dis. / Ant.	:	3m 2013 3115 (4580)	Ant. pol. :	VERTICAL
Limit	:	FCC PART 15C PEAK		
Env. / Ins.	:	24°C/56%	Engineer :	Leo-Li
EUT	:	Altai A2-Ei Dual-band WiFi Access Point		
Power Rating	:	DC 56V From POE Input AC 120V/60Hz		
Test Mode	:	IEEE802.11g 2462MHz Tx		
M/N	:	WA2011N-E		

Data: 47 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)



Site no. : 3m Chamber Data no. : 47
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11g 2462MHz Tx
M/N : WA2011N-E

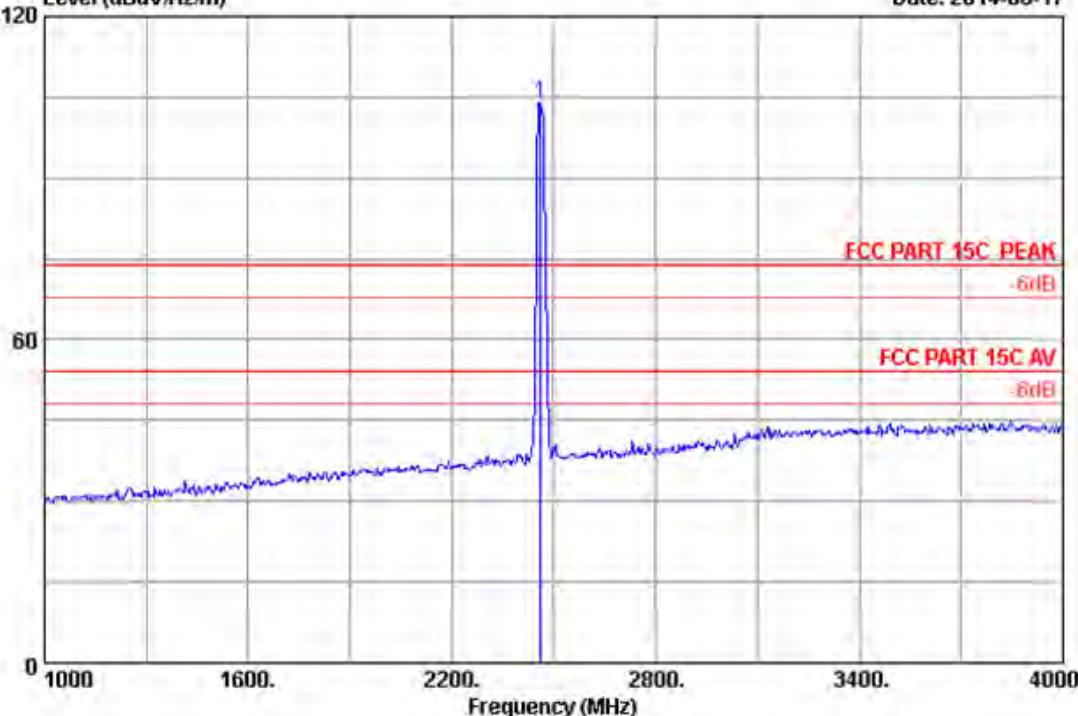
No.	Freq. (MHz)	Ant.	Cable	AMP	Emission				
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	33.06	8.69	35.70	52.16	58.21	74.00	15.79	Peak
2	4924.000	33.06	8.69	35.70	36.84	42.89	54.00	11.11	Average

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: 48 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)

Level (dBuV/Hz/m)

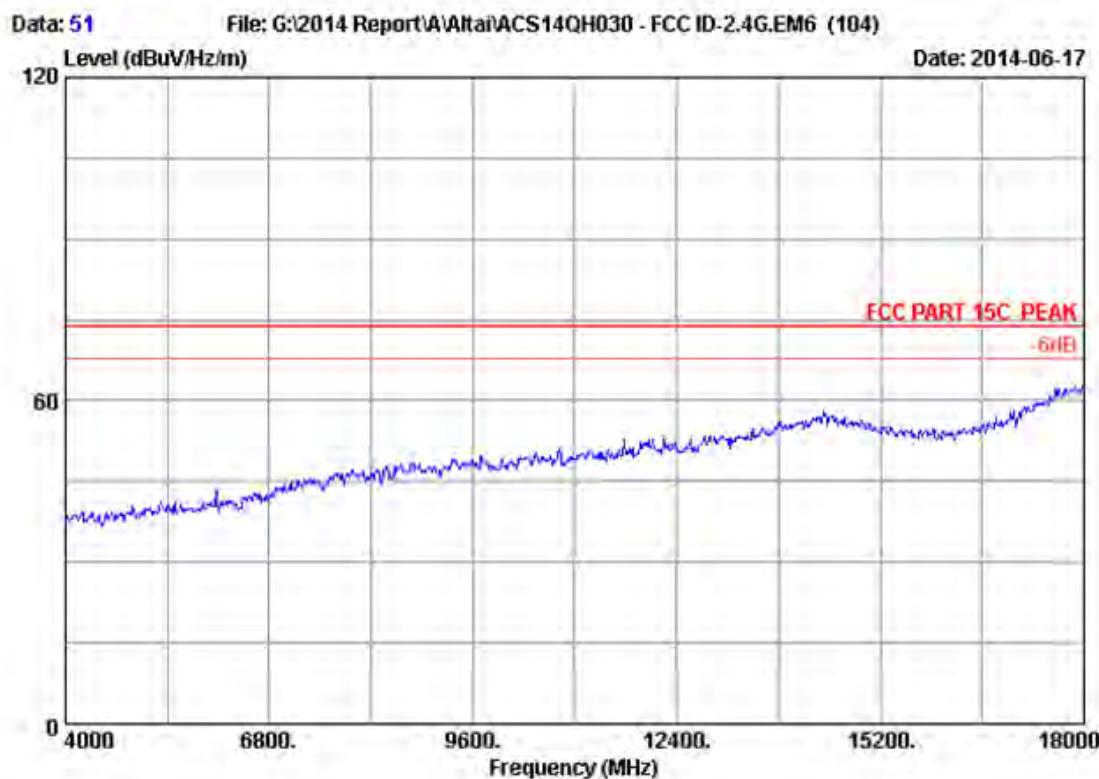
Date: 2014-06-17



Site no. : 3m Chamber Data no. : 48
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11g 2462MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Emission			
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	2462.000	28.32	5.89	35.70	105.39	103.90	74.00	-29.90 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.

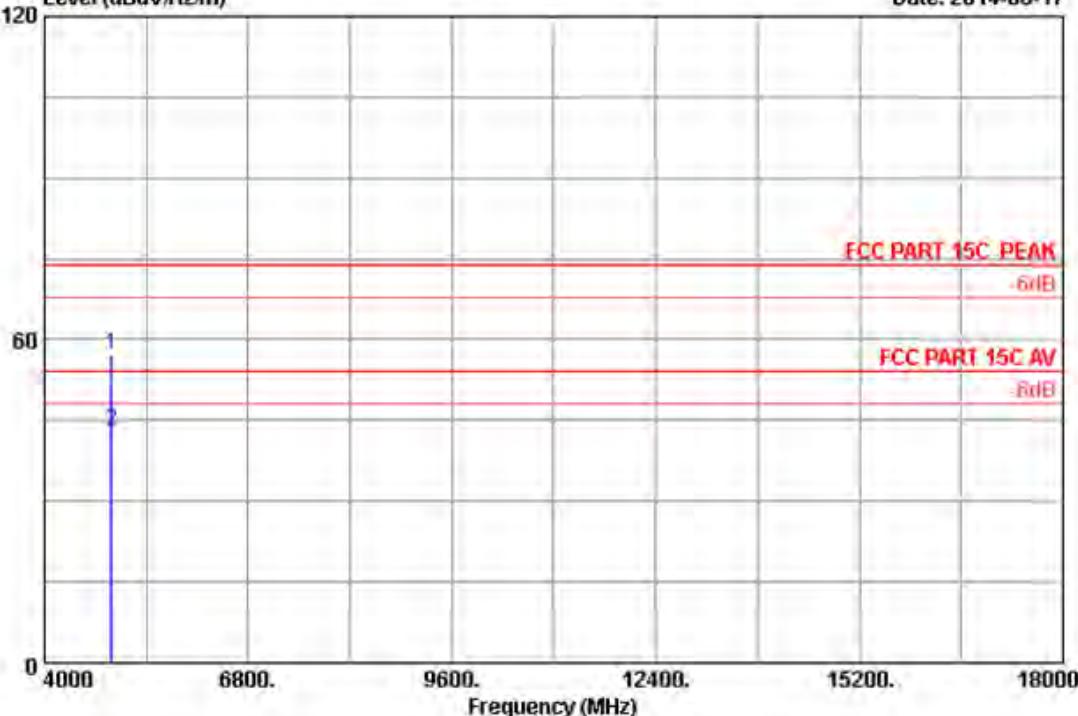


Site no.	:	3m Chamber	Data no. :	51
Dis. / Ant.	:	3m 2013 3115 (4580)	Ant. pol. :	HORIZONTAL
Limit	:	FCC PART 15C PEAK		
Env. / Ins.	:	24°C/56%	Engineer :	Leo-Li
EUT	:	Altai A2-Ei Dual-band WiFi Access Point		
Power Rating	:	DC 56V From POE Input AC 120V/60Hz		
Test Mode	:	IEEE802.11g 2462MHz Tx		
M/N	:	WA2011N-E		

Data: 52 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)

Level (dBuV/Hz/m)

Date: 2014-06-17



Site no. : 3m Chamber Data no. : 52
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11g 2462MHz Tx
M/N : WA2011N-E

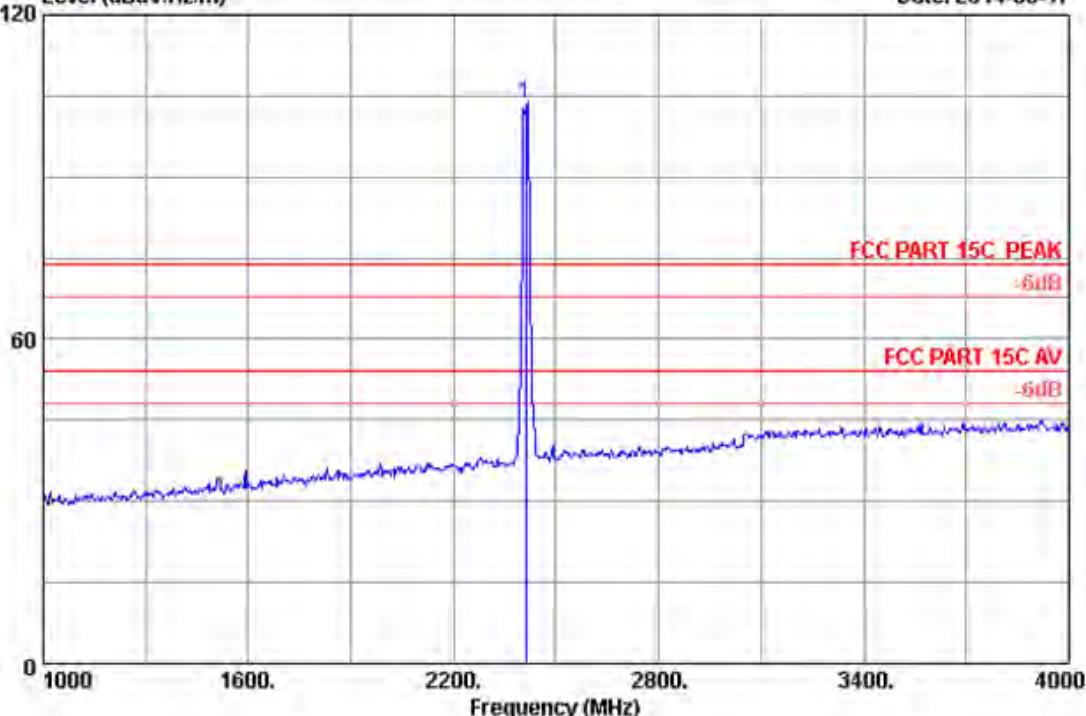
No.	Freq. (MHz)	Ant. Factor	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission			
						Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	33.06	8.69	35.70	51.10	57.15	74.00	16.85	Peak
2	4924.000	33.06	8.69	35.70	37.01	43.06	54.00	10.94	Average

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: 53 File: G:\2014 Report\Altai\ACS14OH030 - FCC ID-24G.EM6 (104)

Level (dBuV/Hz/m)

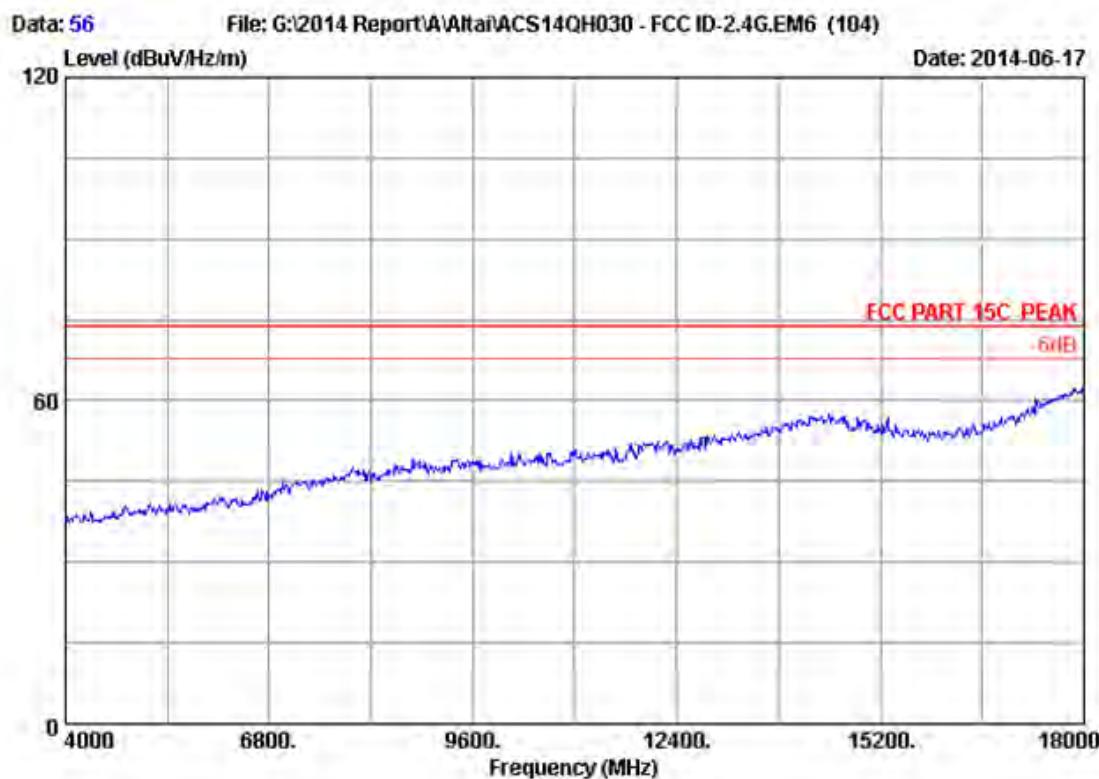
Date: 2014-06-17



Site no. : 3m Chamber Data no. : 53
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2412MHz Tx
M/N : WA2011N-E

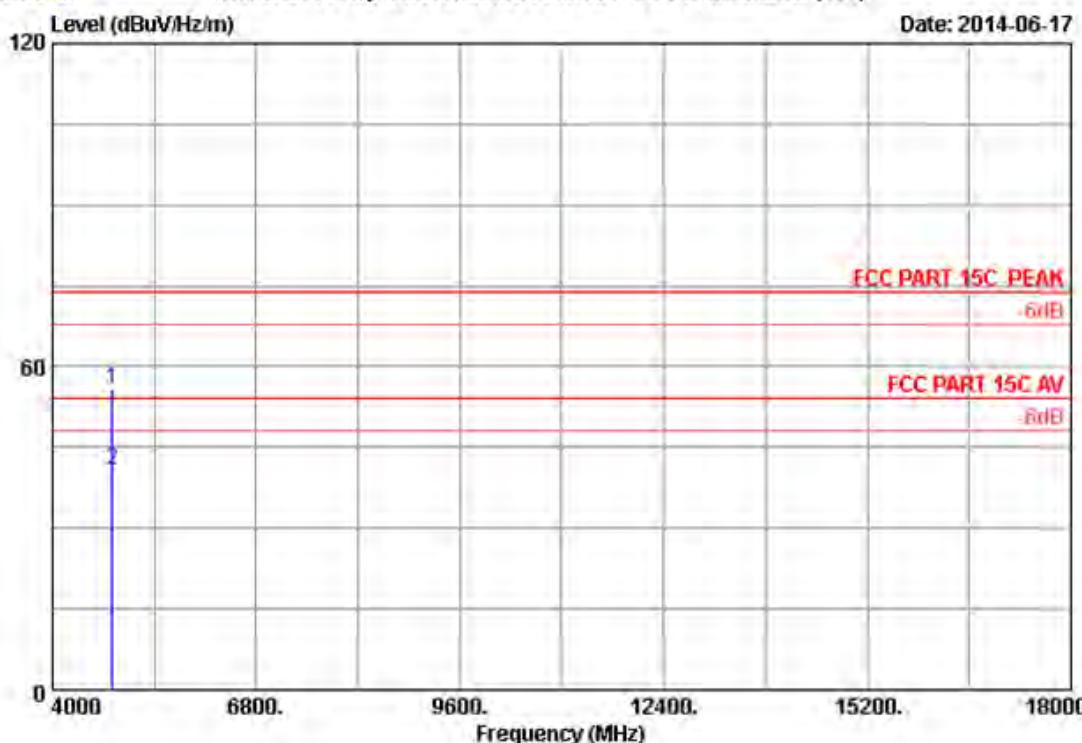
No.	Freq. (MHz)	Ant. Factor	Cable Loss (dB/m)	AMP factor (dB)	Emission			
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	2412.000	28.21	5.81	35.70	105.43	103.75	74.00	-29.75 Peak

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. :	56
Dis. / Ant.	:	3m 2013 3115 (4580)	Ant. pol. :	HORIZONTAL
Limit	:	FCC PART 15C PEAK		
Env. / Ins.	:	24°C/56%	Engineer :	Leo-Li
EUT	:	Altai A2-Ei Dual-band WiFi Access Point		
Power Rating	:	DC 56V From POE Input AC 120V/60Hz		
Test Mode	:	IEEE802.11nHT20 2412MHz Tx		
M/N	:	WA2011N-E		

Data: 57 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)



Site no. : 3m Chamber Data no. : 57
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2412MHz Tx
M/N : WA2011N-E

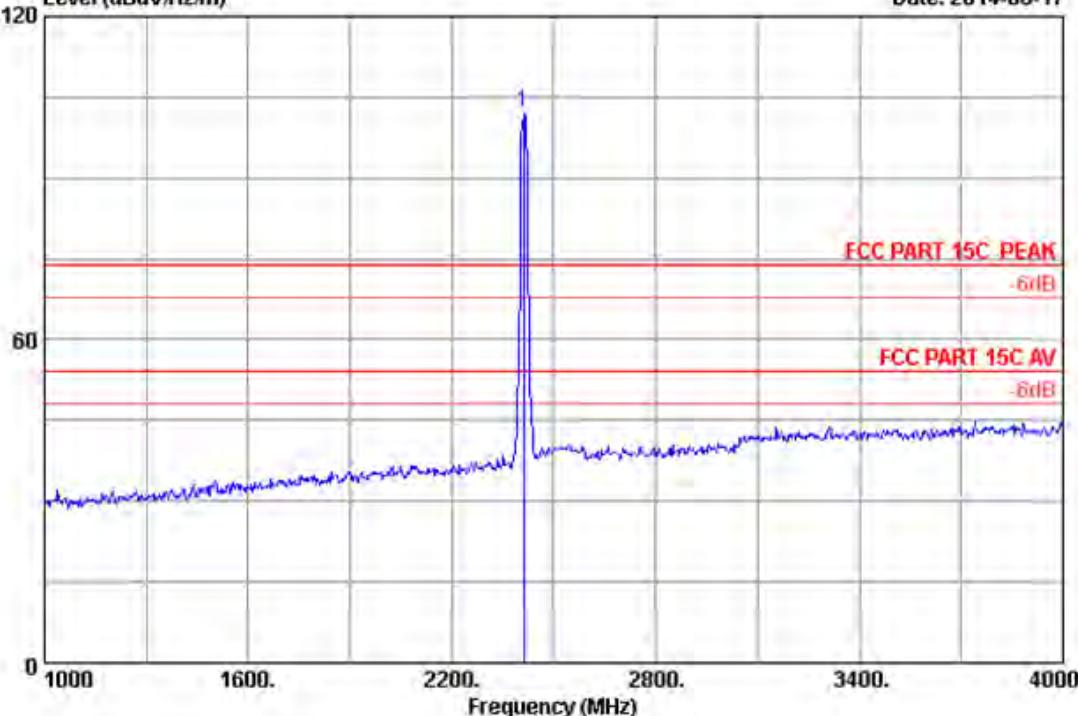
No.	Freq. (MHz)	Ant. Factor	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission			
						Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	32.88	8.58	35.70	50.17	55.93	74.00	18.07	Peak
2	4824.000	32.88	8.58	35.70	35.07	40.83	54.00	13.17	Average

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: 58 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)

Level (dBuV/Hz/m)

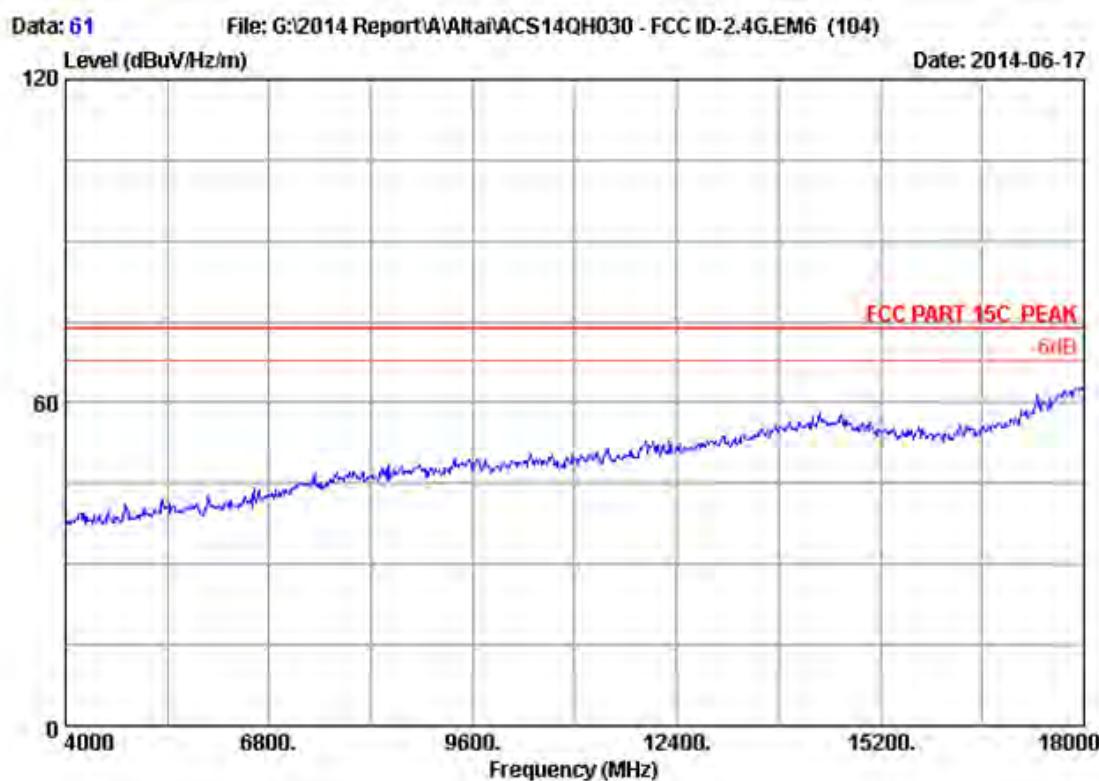
Date: 2014-06-17



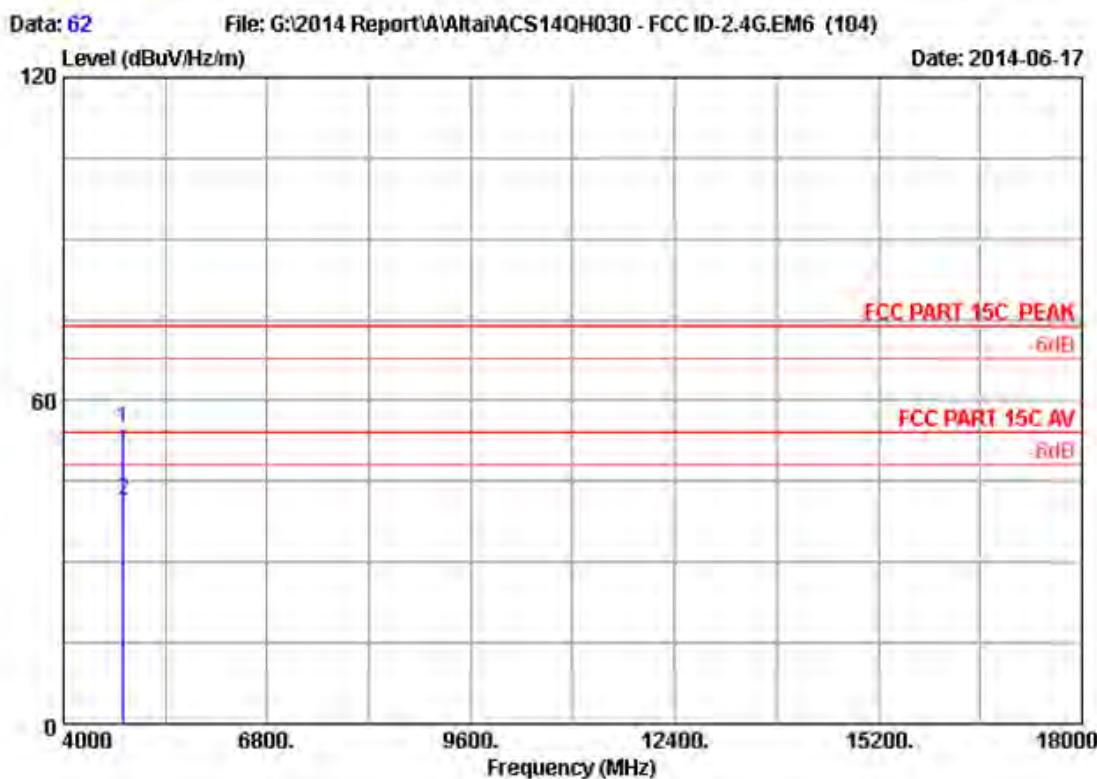
Site no. : 3m Chamber Data no. : 58
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2412MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	2412.000	28.21	5.81	35.70	104.06	102.38	74.00	-28.38 Peak

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



Site no.	:	3m Chamber	Data no. :	61
Dis. / Ant.	:	3m 2013 3115 (4580)	Ant. pol. :	VERTICAL
Limit	:	FCC PART 15C PEAK		
Env. / Ins.	:	24°C/56%	Engineer :	Leo-Li
EUT	:	Altai A2-Ei Dual-band WiFi Access Point		
Power Rating	:	DC 56V From POE Input AC 120V/60Hz		
Test Mode	:	IEEE802.11nHT20 2412MHz Tx		
M/N	:	WA2011N-E		



Site no. : 3m Chamber Data no. : 62
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2412MHz Tx
M/N : WA2011N-E

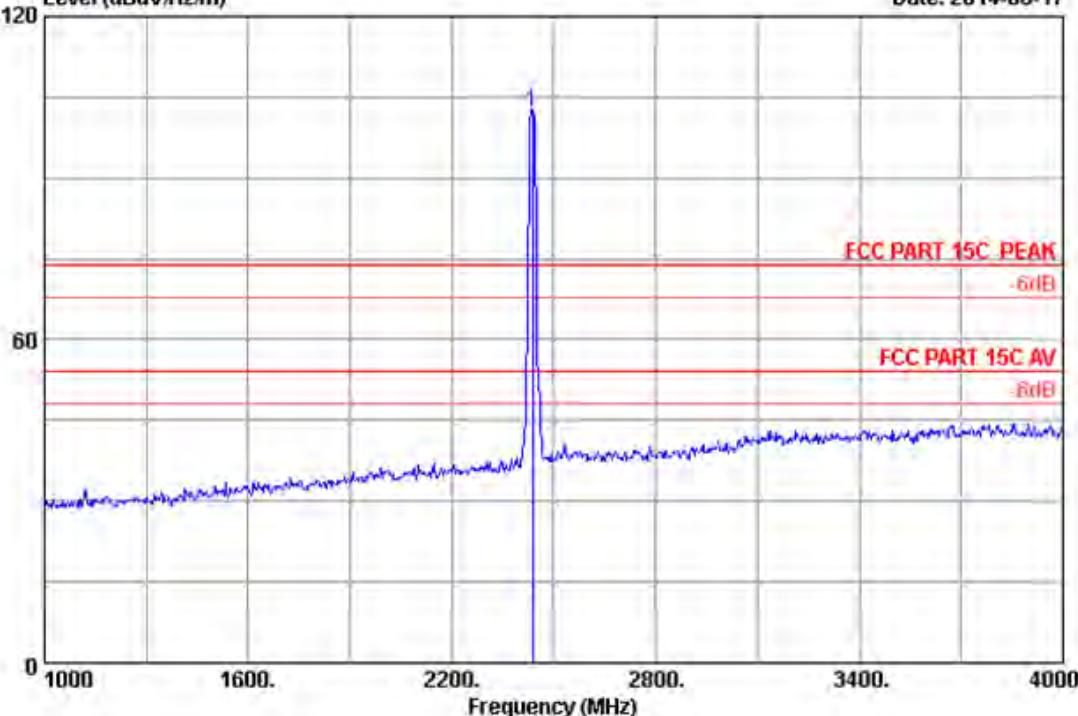
No.	Freq. (MHz)	Ant.	Cable	AMP	Emission				
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	32.88	8.58	35.70	48.93	54.69	74.00	19.31	Peak
2	4824.000	32.88	8.58	35.70	35.72	41.48	54.00	12.52	Average

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

Data: 63 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)

Level (dBuV/Hz/m)

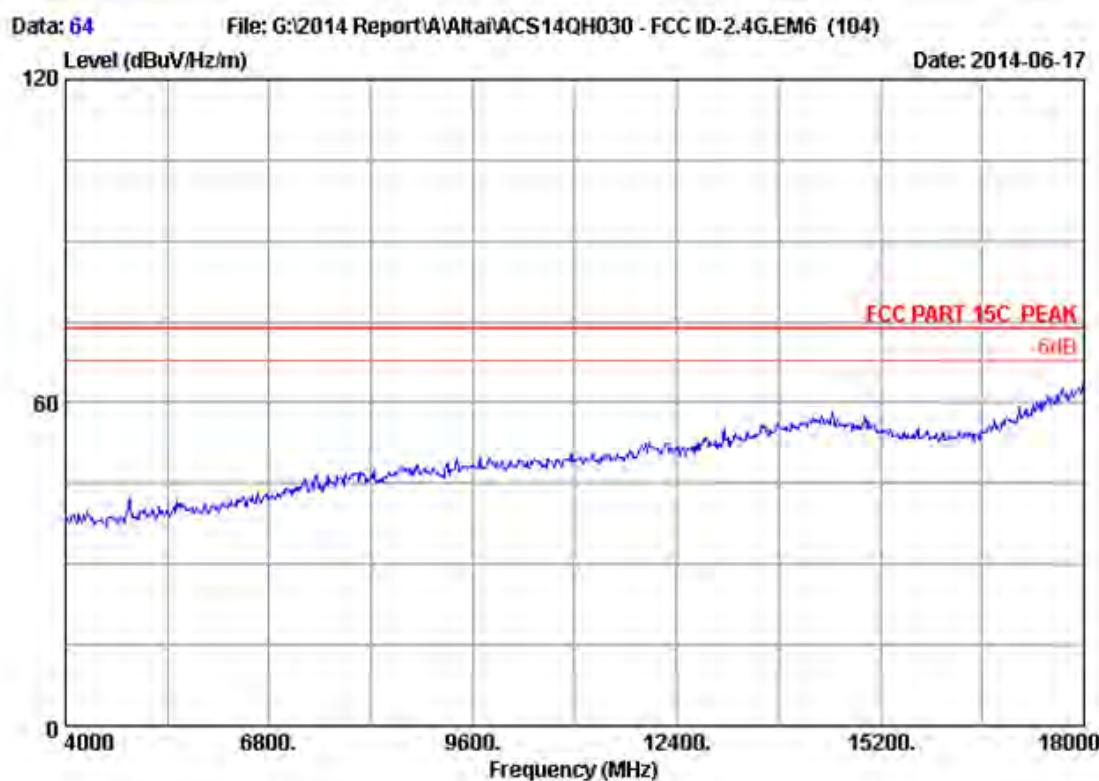
Date: 2014-06-17



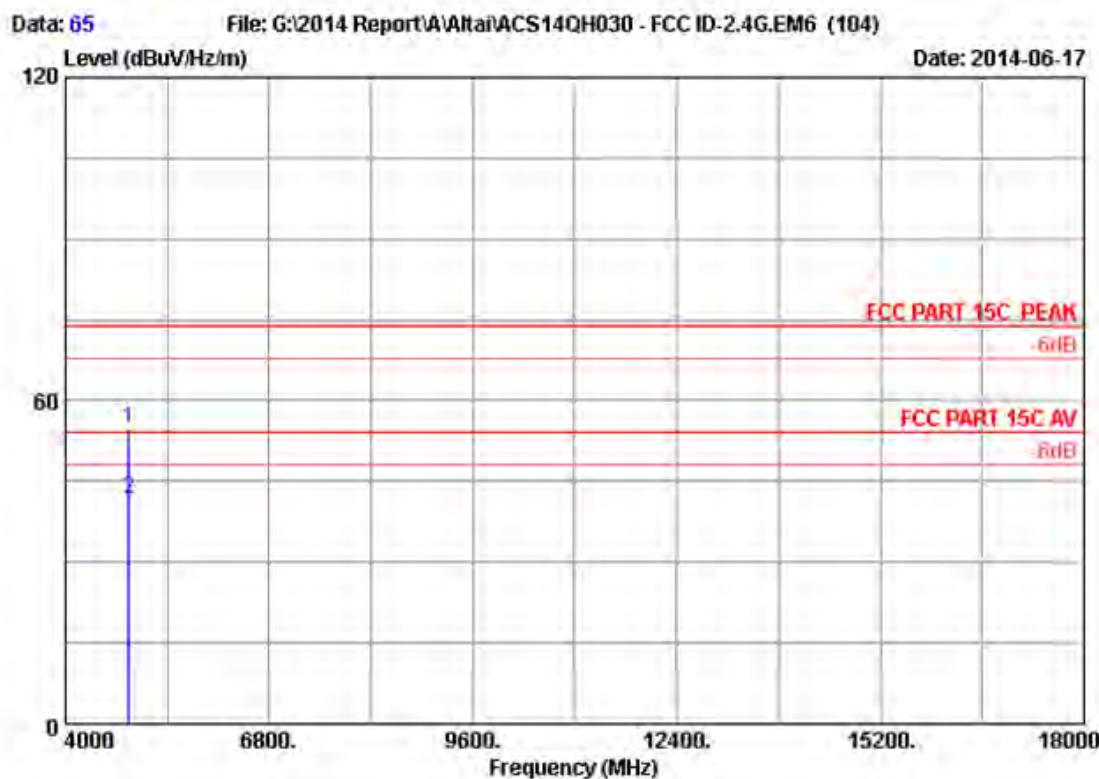
Site no. : 3m Chamber Data no. : 63
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2437MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	2437.000	28.26	5.85	35.70	103.87	102.28	74.00	-28.28 Peak

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



Site no.	:	3m Chamber	Data no. :	64
Dis. / Ant.	:	3m 2013 3115 (4580)	Ant. pol. :	VERTICAL
Limit	:	FCC PART 15C PEAK		
Env. / Ins.	:	24°C/56%	Engineer :	Leo-Li
EUT	:	Altai A2-Ei Dual-band WiFi Access Point		
Power Rating	:	DC 56V From POE Input AC 120V/60Hz		
Test Mode	:	IEEE802.11nHT20 2437MHz Tx		
M/N	:	WA2011N-E		



Site no. : 3m Chamber Data no. : 65
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2437MHz Tx
M/N : WA2011N-E

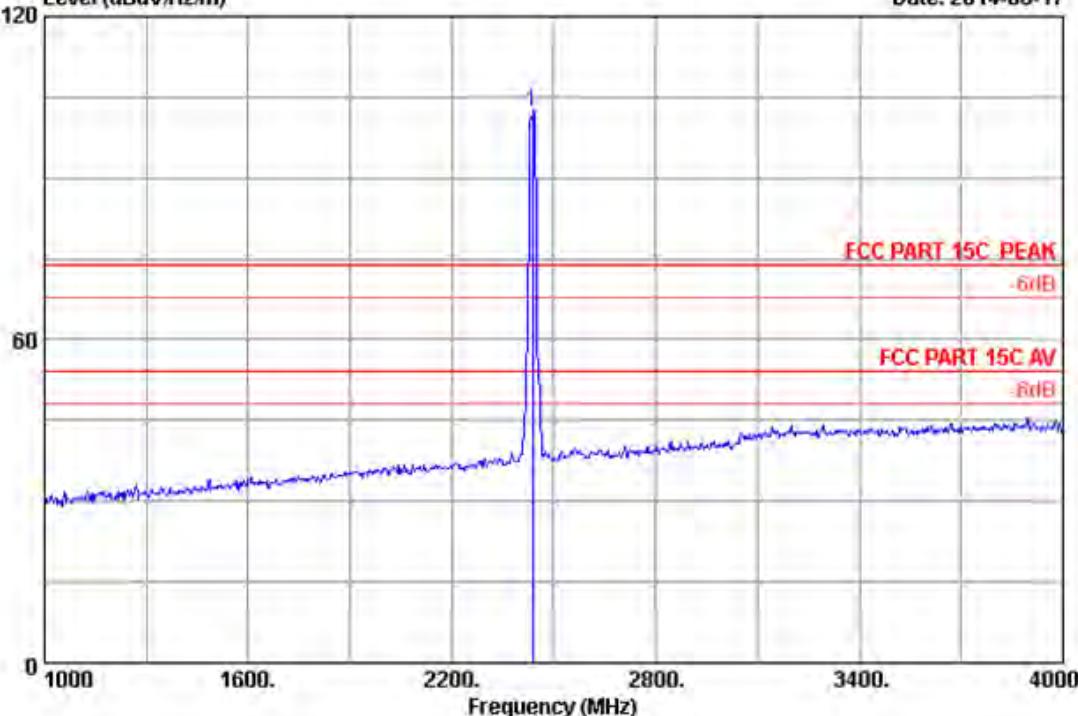
No.	Freq. (MHz)	Ant.	Cable	AMP	Emission				
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	32.97	8.63	35.70	49.07	54.97	74.00	19.03	Peak
2	4874.000	32.97	8.63	35.70	35.75	41.65	54.00	12.35	Average

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.

Data: 66 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)

Level (dBuV/Hz/m)

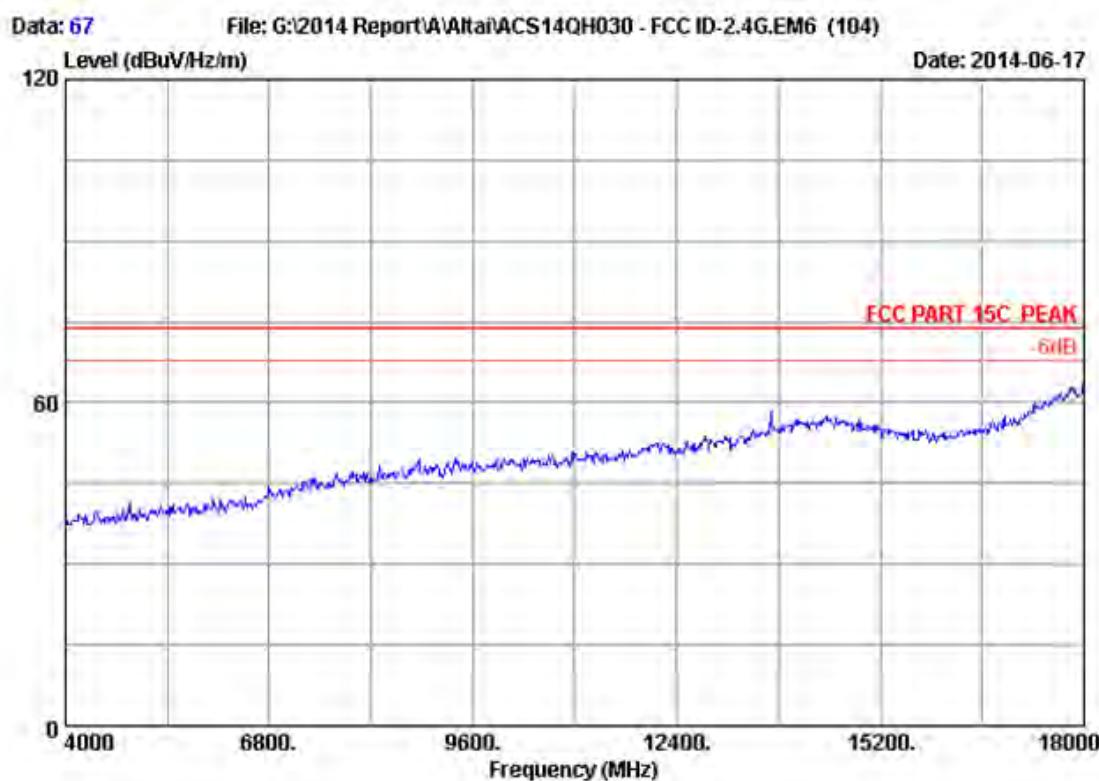
Date: 2014-06-17



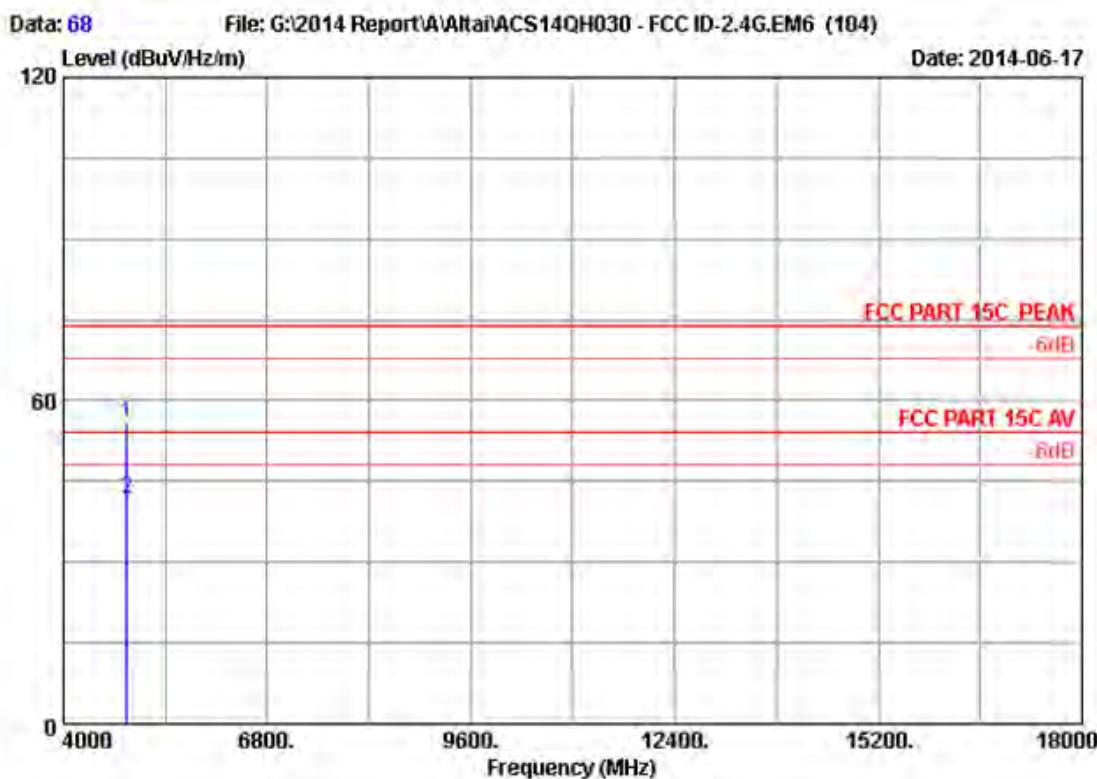
Site no. : 3m Chamber Data no. : 66
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2437MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	2437.000	28.26	5.85	35.70	103.87	102.28	74.00	-28.28 Peak

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



Site no.	:	3m Chamber	Data no. :	67
Dis. / Ant.	:	3m 2013 3115 (4580)	Ant. pol. :	HORIZONTAL
Limit	:	FCC PART 15C PEAK		
Env. / Ins.	:	24°C/56%	Engineer :	Leo-Li
EUT	:	Altai A2-Ei Dual-band WiFi Access Point		
Power Rating	:	DC 56V From POE Input AC 120V/60Hz		
Test Mode	:	IEEE802.11nHT20 2437MHz Tx		
M/N	:	WA2011N-E		



Site no. : 3m Chamber Data no. : 68
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2437MHz Tx
M/N : WA2011N-E

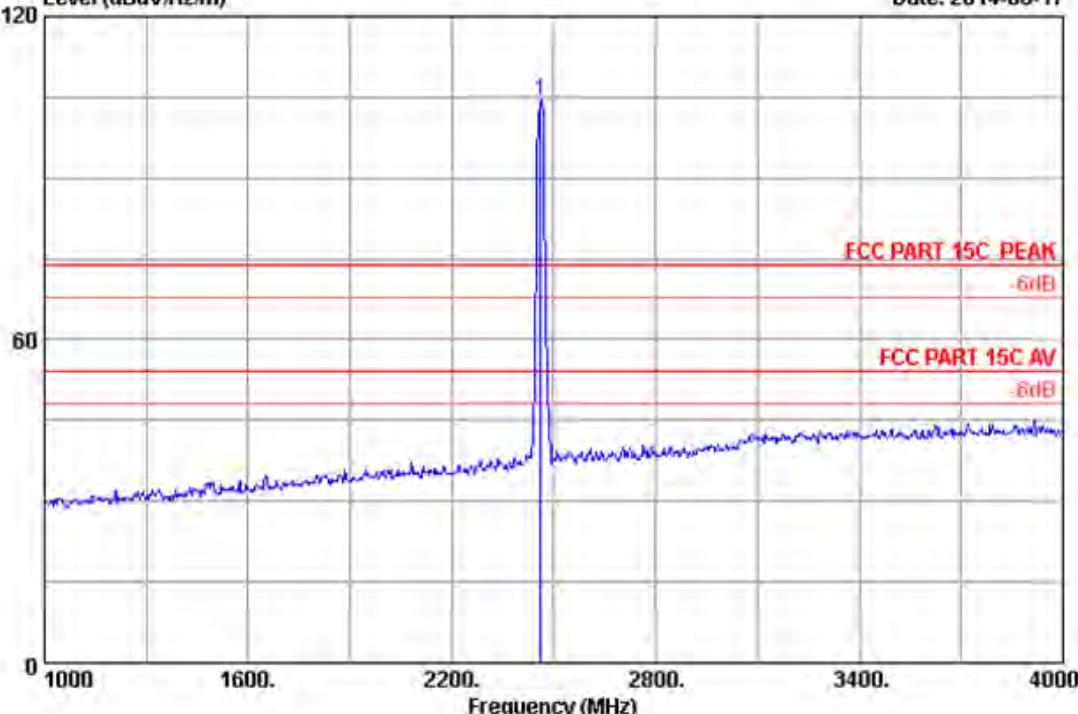
No.	Freq. (MHz)	Ant.	Cable	AMP	Emission				
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	32.97	8.63	35.70	49.79	55.69	74.00	18.31	Peak
2	4874.000	32.97	8.63	35.70	35.72	41.62	54.00	12.38	Average

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: 69 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)

Level (dBuV/Hz/m)

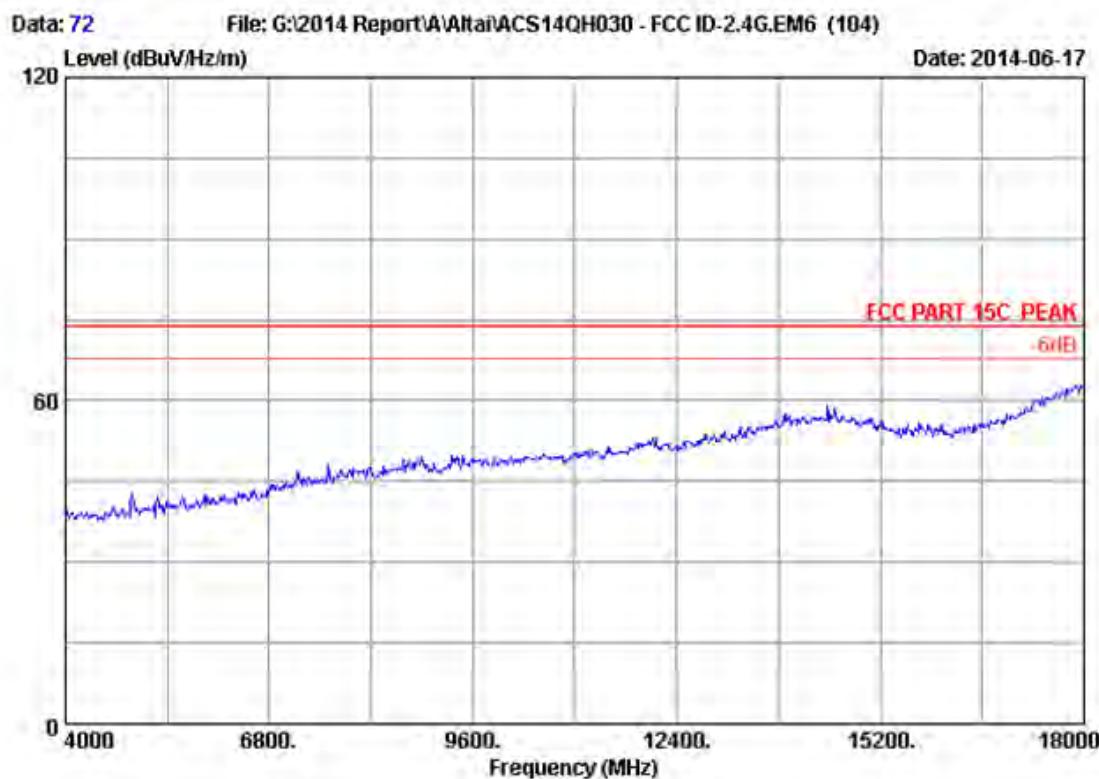
Date: 2014-06-17



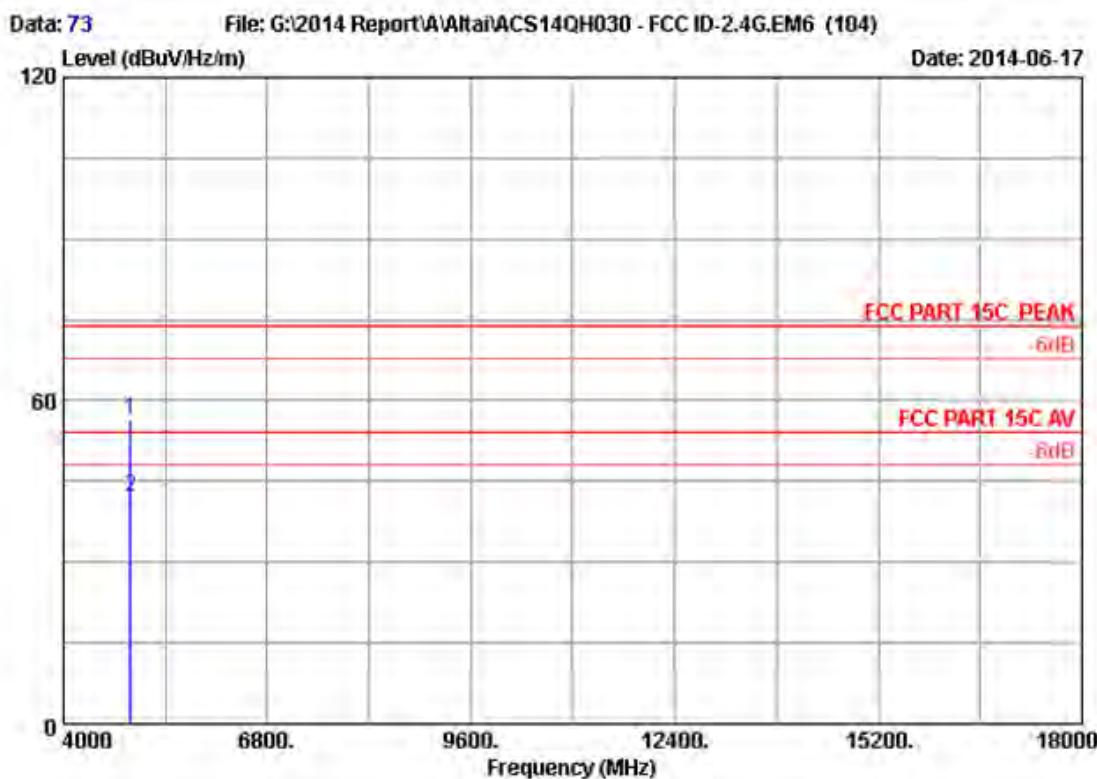
Site no. : 3m Chamber Data no. : 69
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2462MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	2462.000	28.32	5.89	35.70	105.92	104.43	74.00	-30.43 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. : 72
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2462MHz Tx
M/N : WA2011N-E



Site no. : 3m Chamber Data no. : 73
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2462MHz Tx
M/N : WA2011N-E

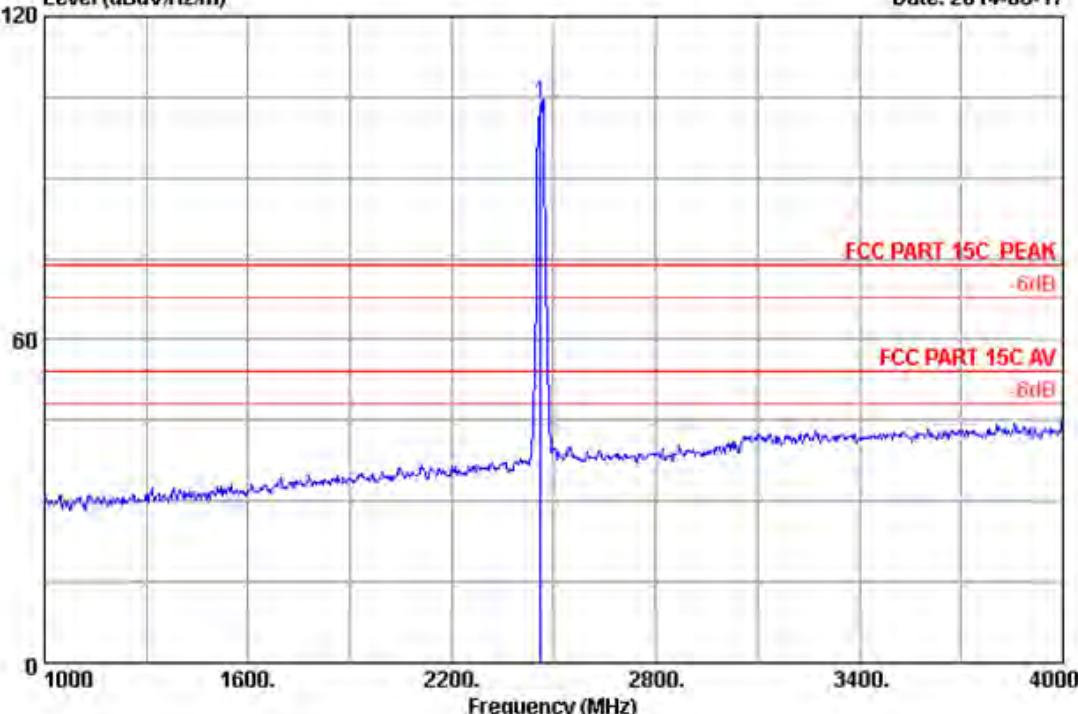
No.	Freq. (MHz)	Ant.	Cable	AMP	Emission				
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	33.06	8.69	35.70	50.42	56.47	74.00	17.53	Peak
2	4924.000	33.06	8.69	35.70	36.18	42.23	54.00	11.77	Average

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: 74 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)

Level (dBuV/Hz/m)

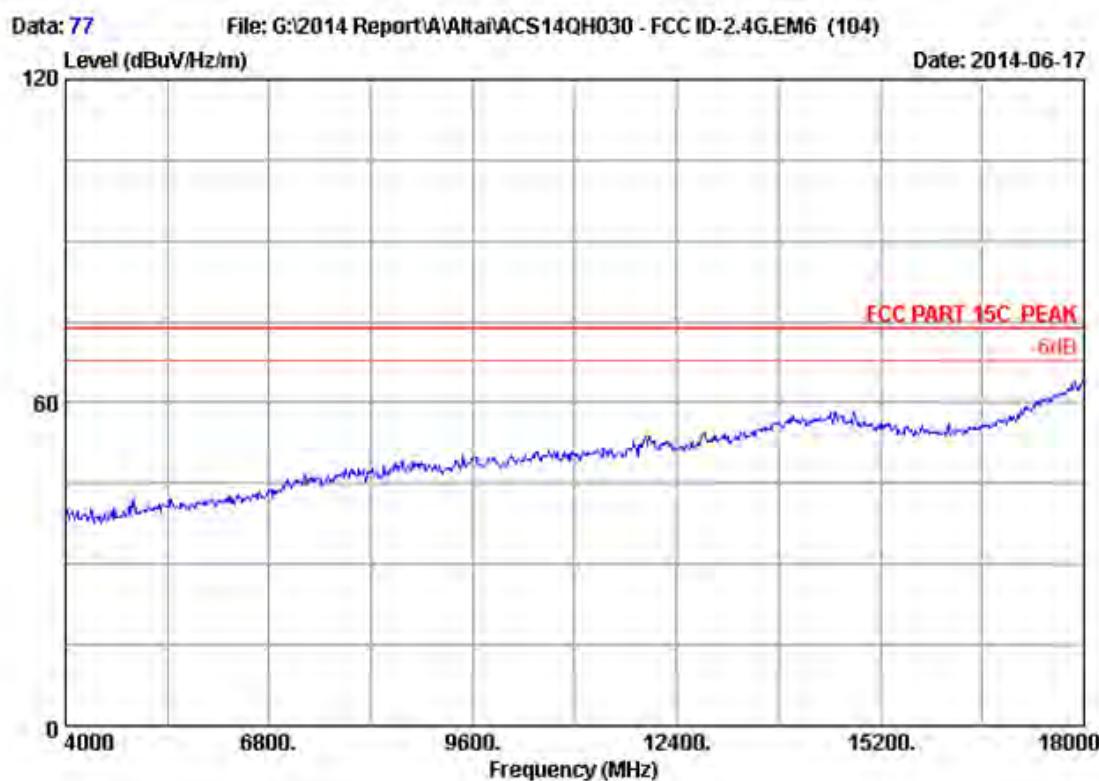
Date: 2014-06-17



Site no. : 3m Chamber Data no. : 74
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2462MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	2462.000	28.32	5.89	35.70	105.48	103.99	74.00	-29.99 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.

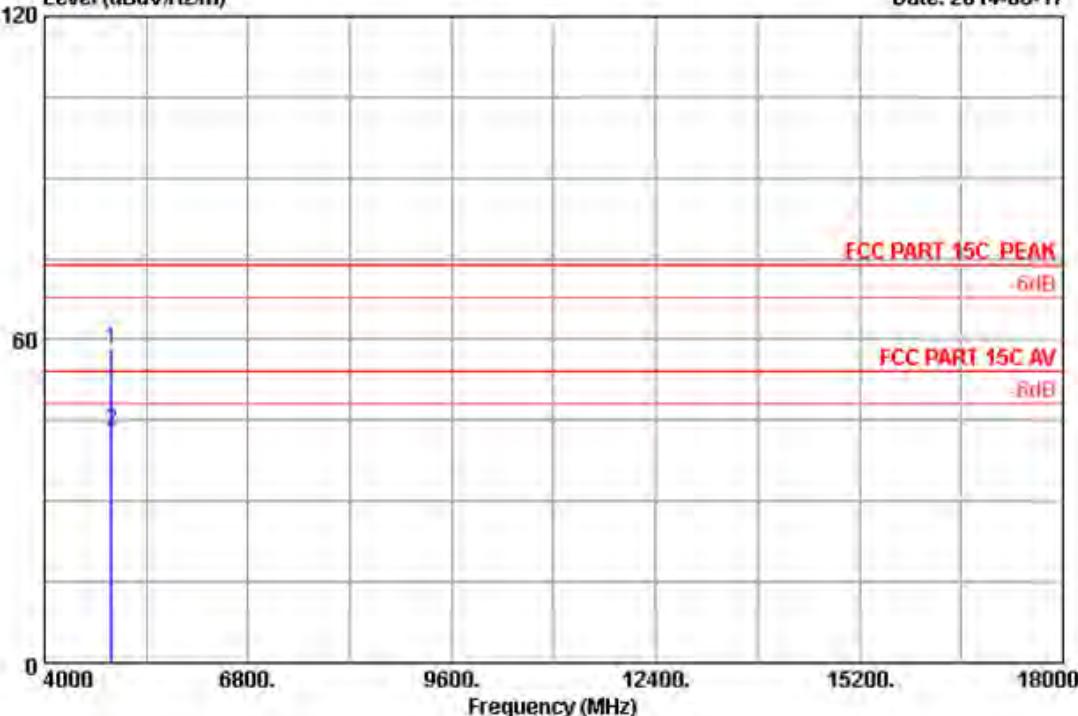


Site no.	:	3m Chamber	Data no. :	77
Dis. / Ant.	:	3m 2013 3115 (4580)	Ant. pol. :	VERTICAL
Limit	:	FCC PART 15C PEAK		
Env. / Ins.	:	24°C/56%	Engineer :	Leo-Li
EUT	:	Altai A2-Ei Dual-band WiFi Access Point		
Power Rating	:	DC 56V From POE Input AC 120V/60Hz		
Test Mode	:	IEEE802.11nHT20 2462MHz Tx		
M/N	:	WA2011N-E		

Data: 78 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)

Level (dBuV/Hz/m)

Date: 2014-06-17



Site no. : 3m Chamber Data no. : 78
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2462MHz Tx
M/N : WA2011N-E

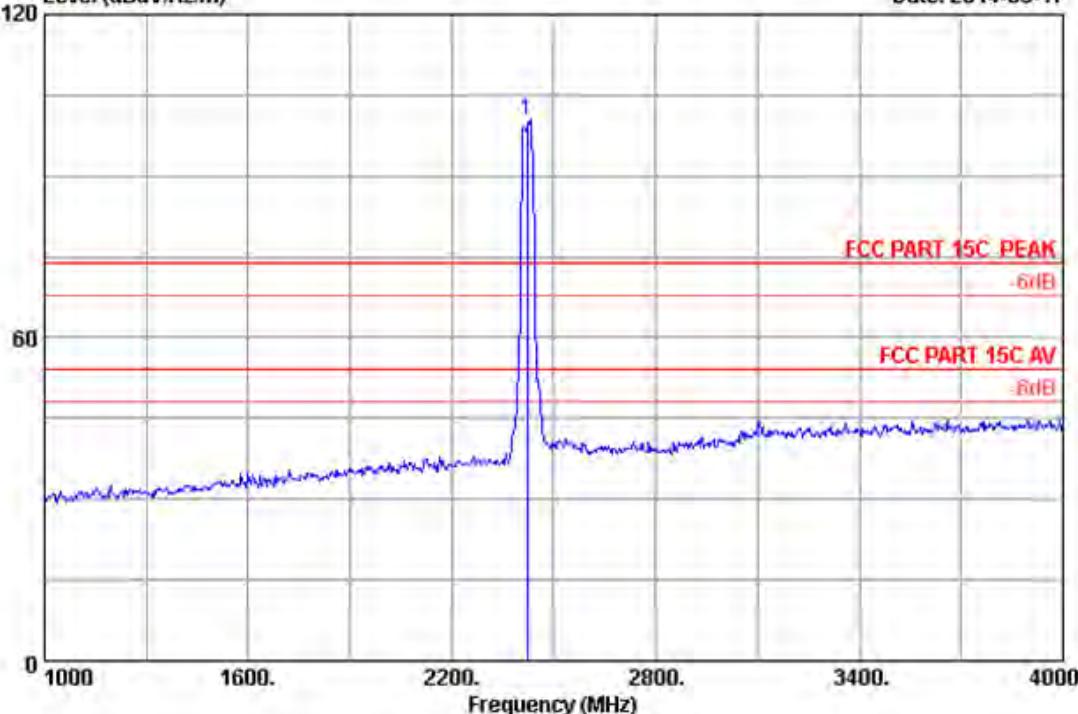
No.	Freq. (MHz)	Ant.	Cable	AMP	Emission				
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	33.06	8.69	35.70	52.06	58.11	74.00	15.89	Peak
2	4924.000	33.06	8.69	35.70	37.06	43.11	54.00	10.89	Average

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

Data: 79 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)

Level (dBuV/Hz/m)

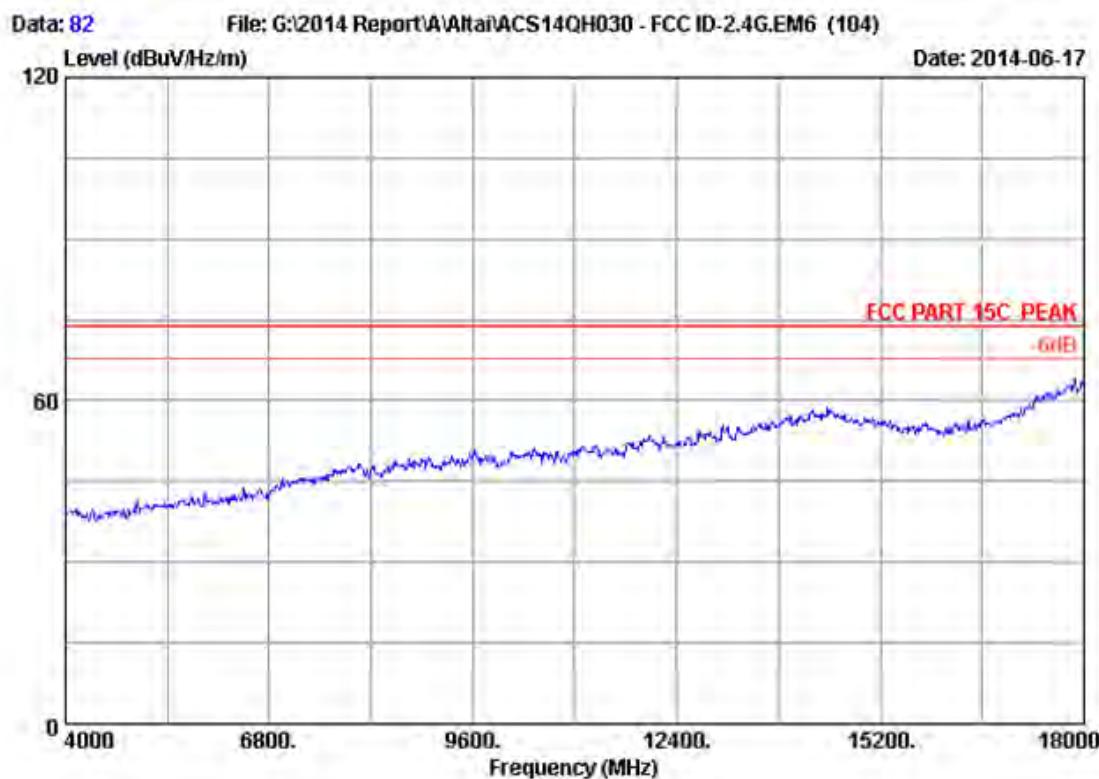
Date: 2014-06-17



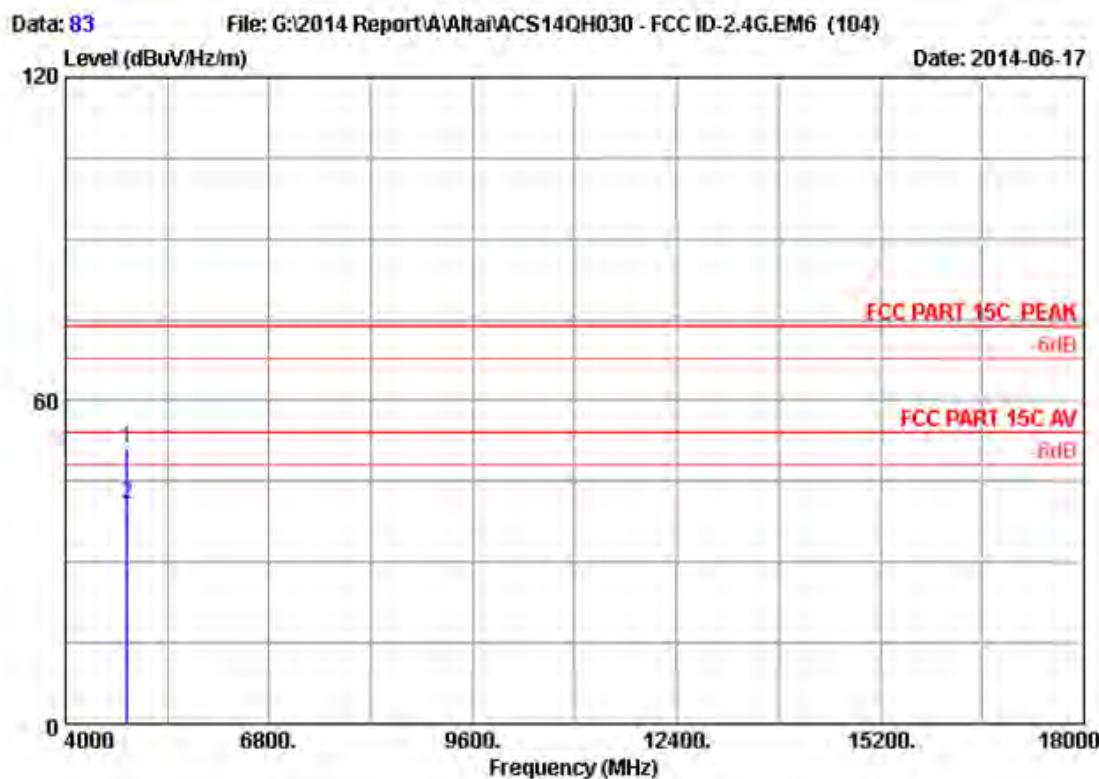
Site no. : 3m Chamber Data no. : 79
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 2422MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	2422.000	28.23	5.83	35.70	102.06	100.42	74.00	-26.42 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. : 82
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 2422MHz Tx
M/N : WA2011N-E



Site no. : 3m Chamber Data no. : 83
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 2422MHz Tx
M/N : WA2011N-E

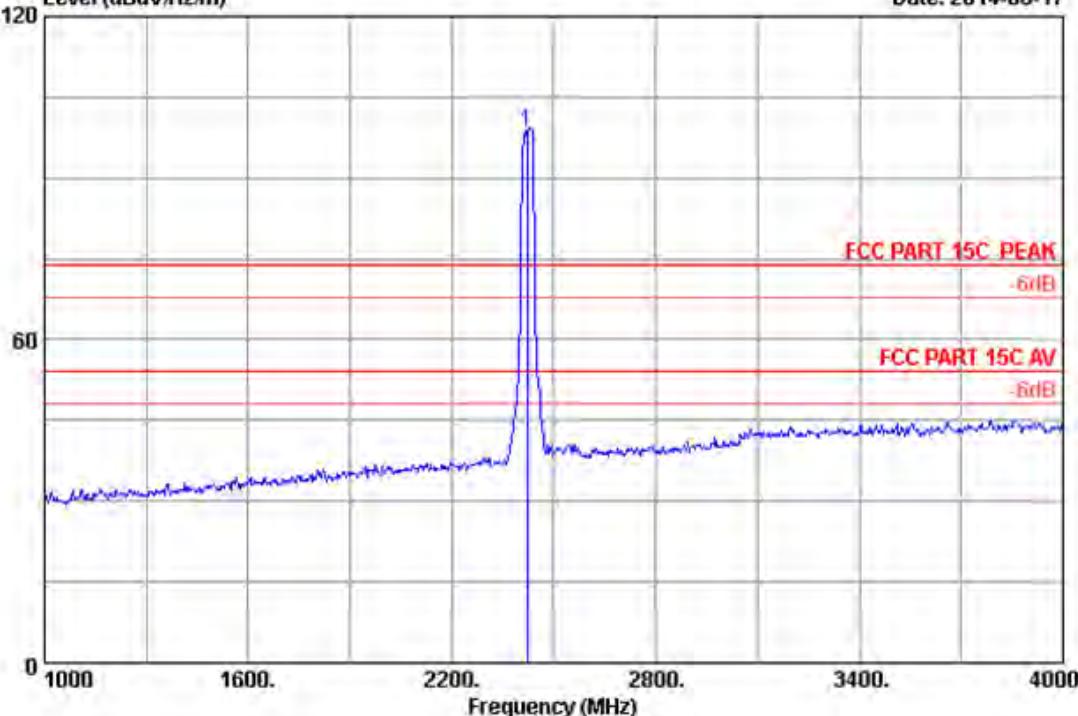
No.	Freq. (MHz)	Ant.	Cable	AMP	Emission				
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4844.000	32.92	8.60	35.70	45.35	51.17	74.00	22.83	Peak
2	4844.000	32.92	8.60	35.70	35.06	40.90	54.00	13.10	Average

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: 84 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)

Level (dBuV/Hz/m)

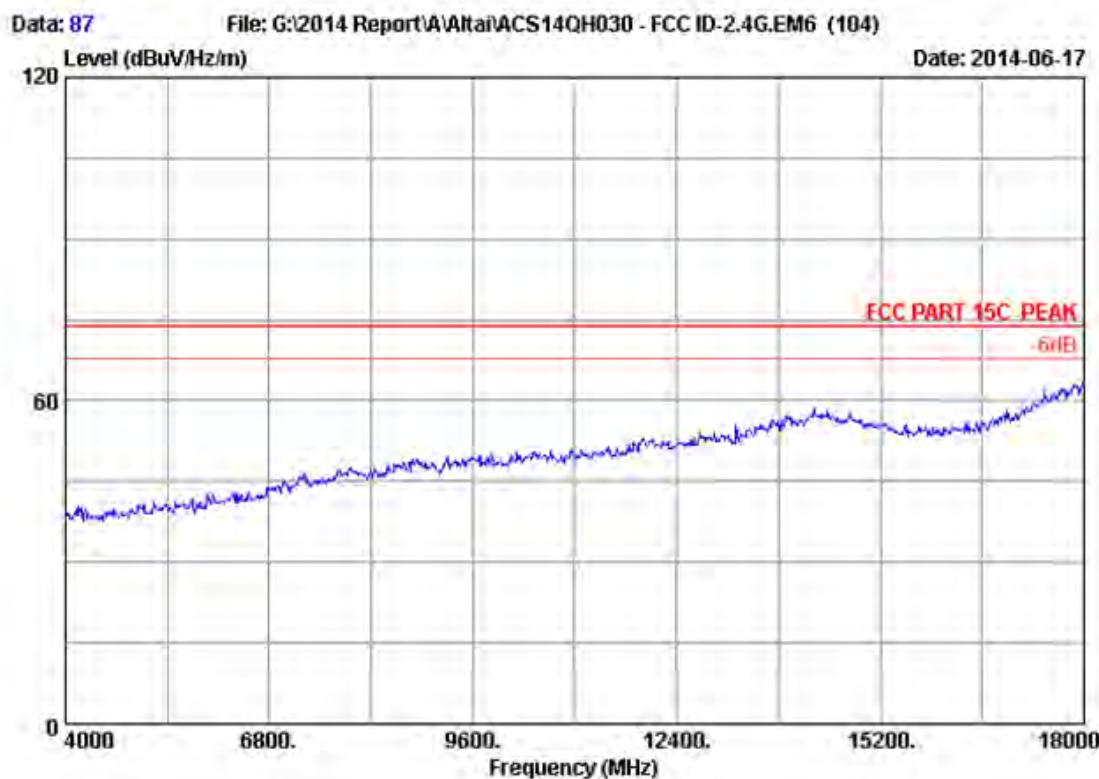
Date: 2014-06-17



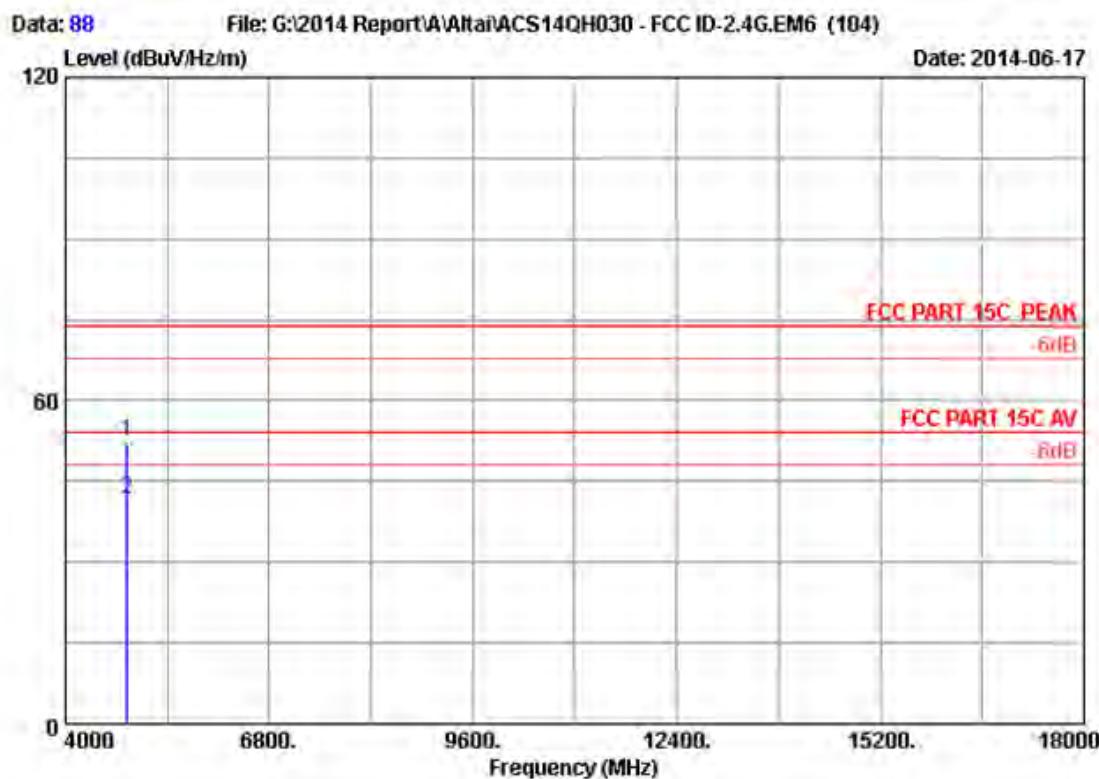
Site no. : 3m Chamber Data no. : 84
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 2422MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	2422.000	28.23	5.83	35.70	100.36	98.72	74.00	-24.72 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. : 87
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 2422MHz Tx
M/N : WA2011N-E



Site no. : 3m Chamber Data no. : 88
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 2422MHz Tx
M/N : WA2011N-E

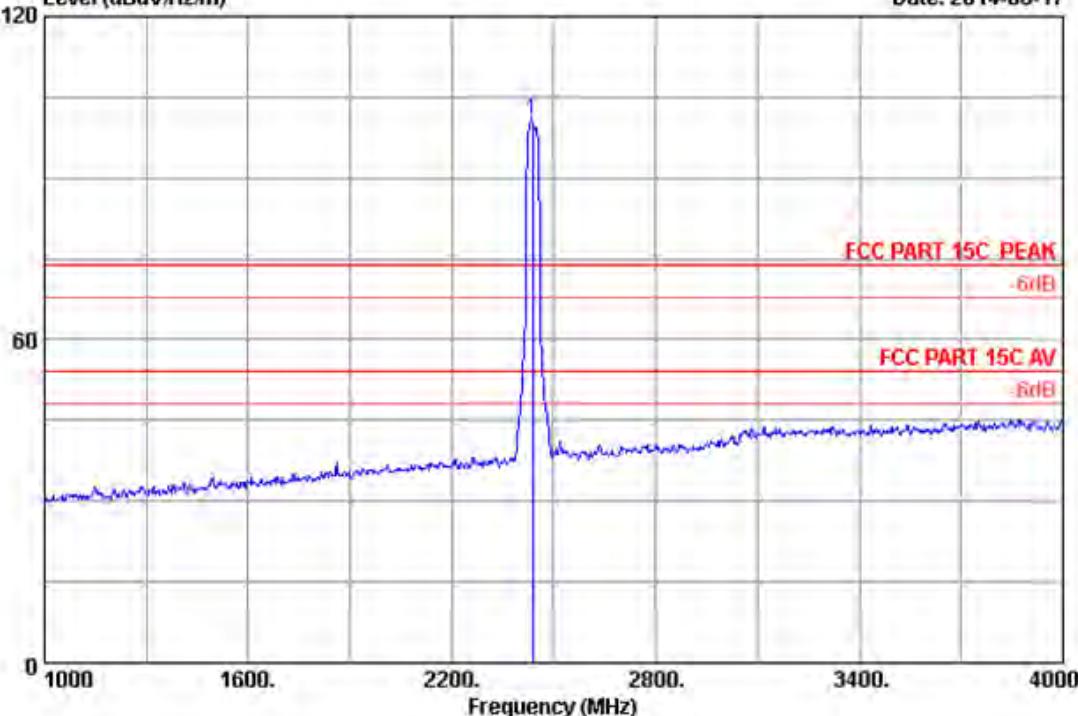
No.	Freq. (MHz)	Ant.	Cable	AMP	Emission				
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4844.000	32.92	8.60	35.70	46.56	52.38	74.00	21.62	Peak
2	4844.000	32.92	8.60	35.70	35.67	41.69	54.00	12.31	Average

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: 89 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)

Level (dBuV/Hz/m)

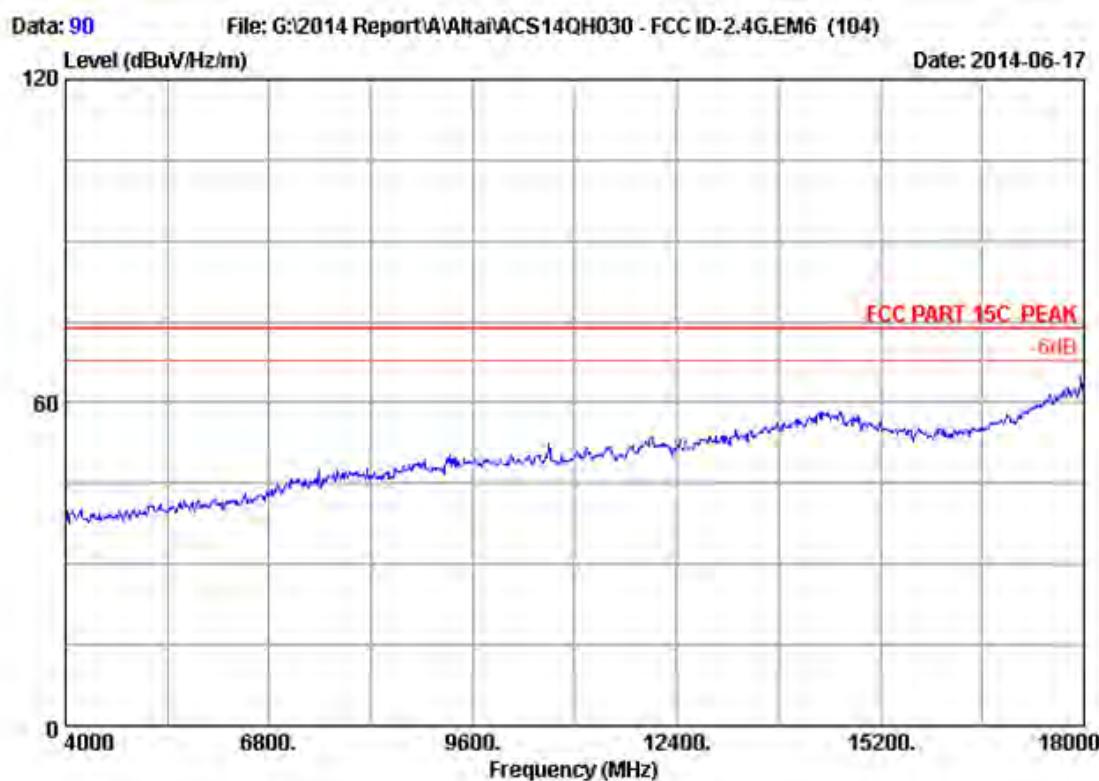
Date: 2014-06-17



Site no. : 3m Chamber Data no. : 89
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 2437MHz Tx
M/N : WA2011N-E

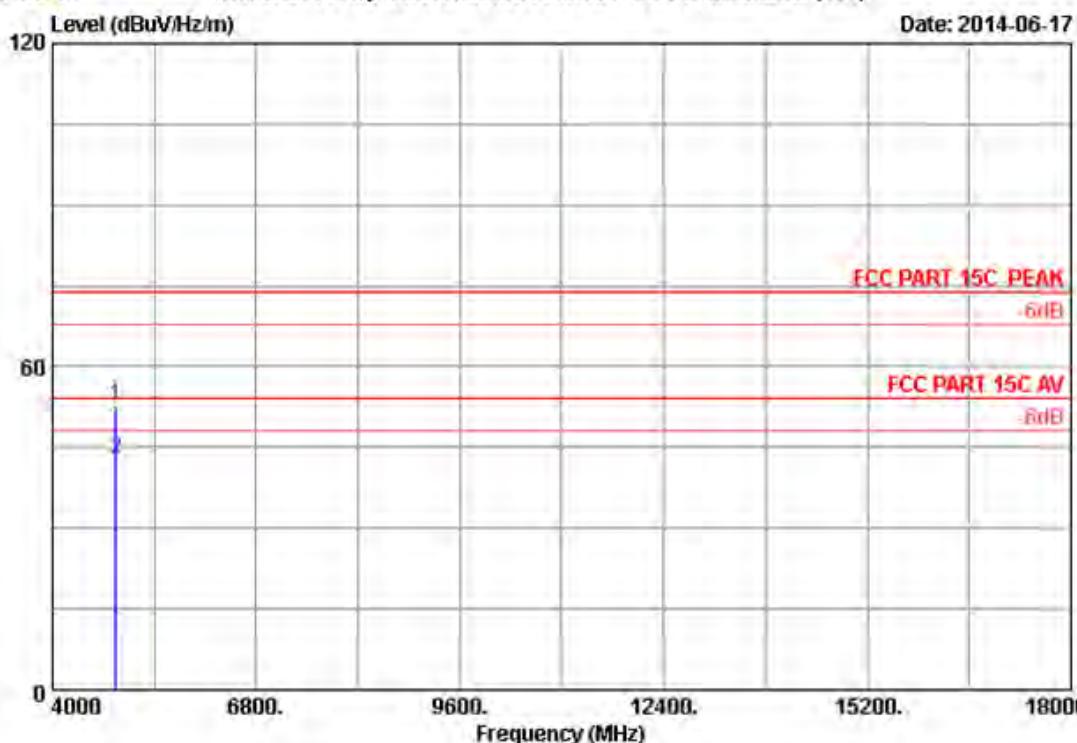
No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	2437.000	28.26	5.85	35.70	102.04	100.45	74.00	-26.45 Peak

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. : 90
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 2437MHz Tx
M/N : WA2011N-E

Data: 91 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)



Site no. : 3m Chamber Data no. : 91
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 2437MHz Tx
M/N : WA2011N-E

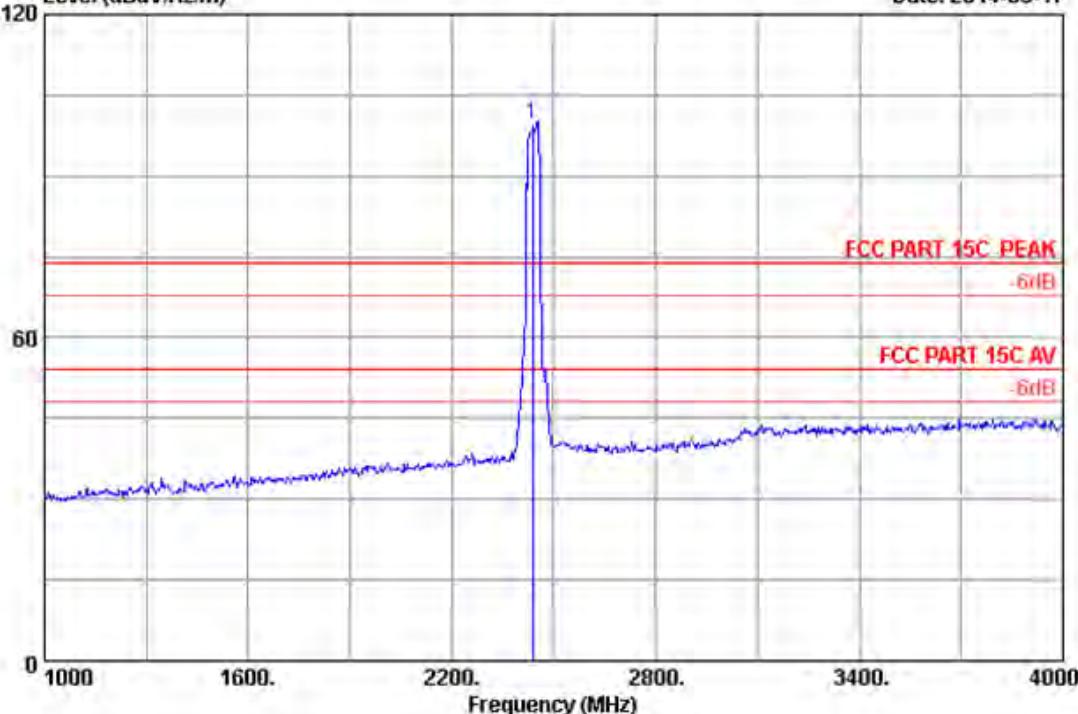
No.	Freq. (MHz)	Ant.	Cable	AMP	Emission				
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	32.97	8.63	35.70	47.04	52.94	74.00	21.06	Peak
2	4874.000	32.97	8.63	35.70	36.76	42.66	54.00	11.34	Average

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: 92 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)

Level (dBuV/Hz/m)

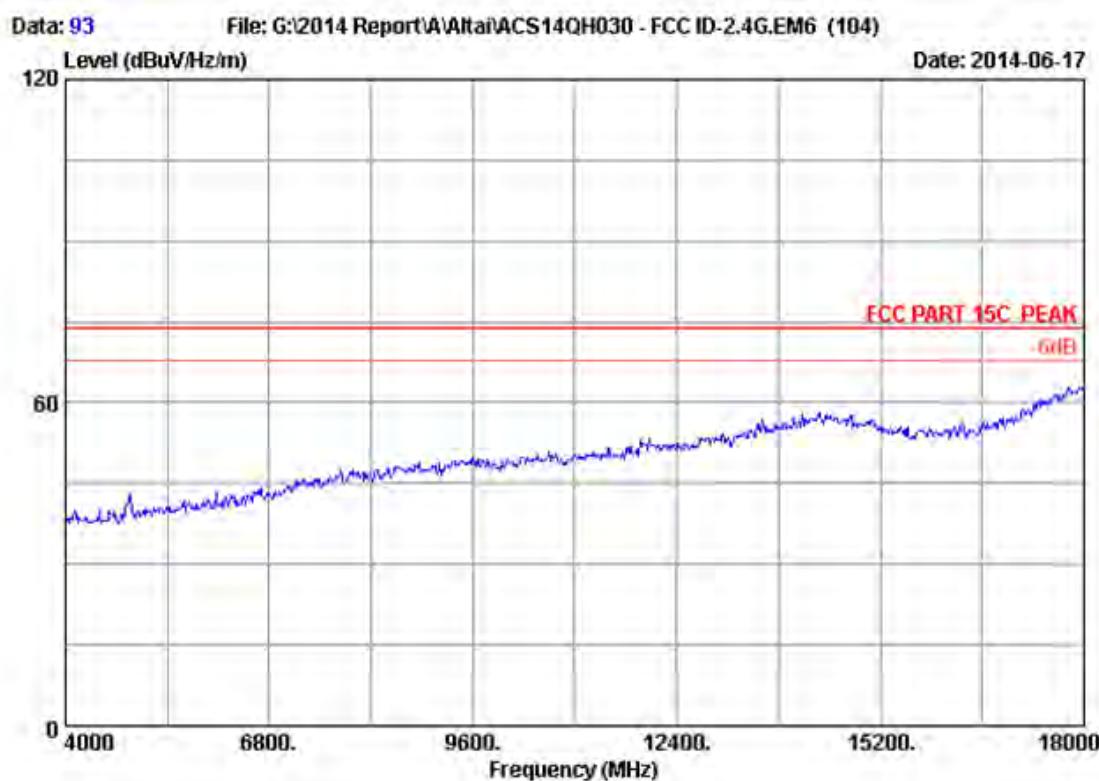
Date: 2014-06-17



Site no. : 3m Chamber Data no. : 92
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 2437MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	2437.000	28.26	5.85	35.70	101.20	99.61	74.00	-25.61 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.

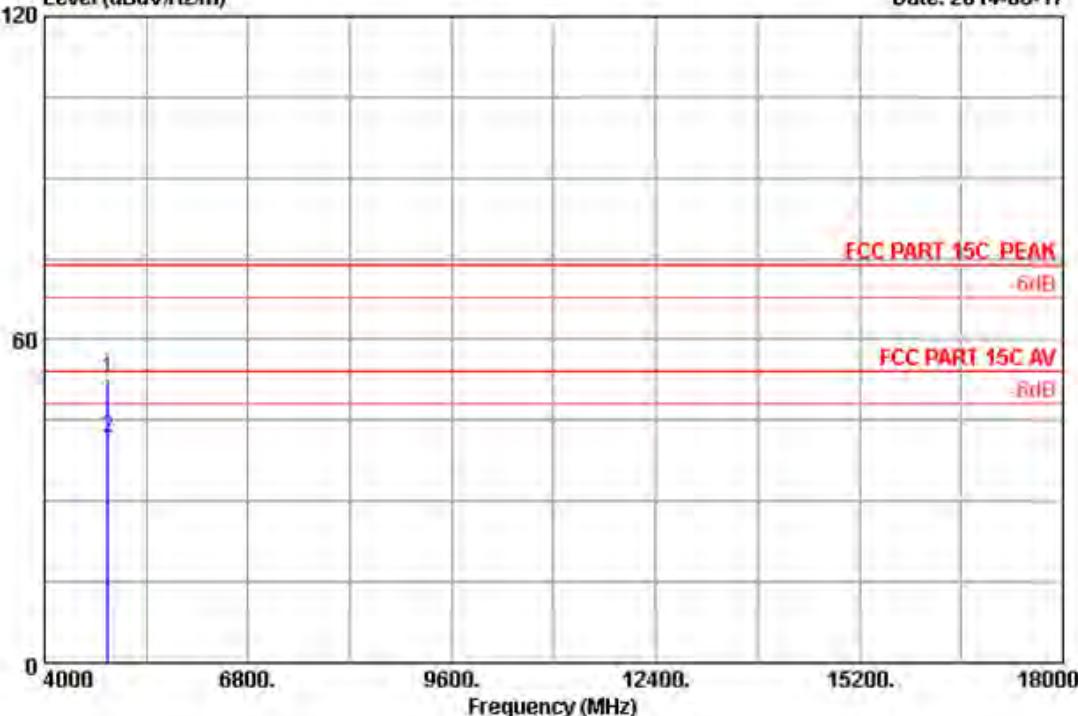


Site no.	:	3m Chamber	Data no. :	93
Dis. / Ant.	:	3m 2013 3115 (4580)	Ant. pol. :	VERTICAL
Limit	:	FCC PART 15C PEAK		
Env. / Ins.	:	24°C/56%	Engineer :	Leo-Li
EUT	:	Altai A2-Ei Dual-band WiFi Access Point		
Power Rating	:	DC 56V From POE Input AC 120V/60Hz		
Test Mode	:	IEEE802.11nHT40 2437MHz Tx		
M/N	:	WA2011N-E		

Data: 94 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)

Level (dBuV/Hz/m)

Date: 2014-06-17



Site no. : 3m Chamber Data no. : 94
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 2437MHz Tx
M/N : WA2011N-E

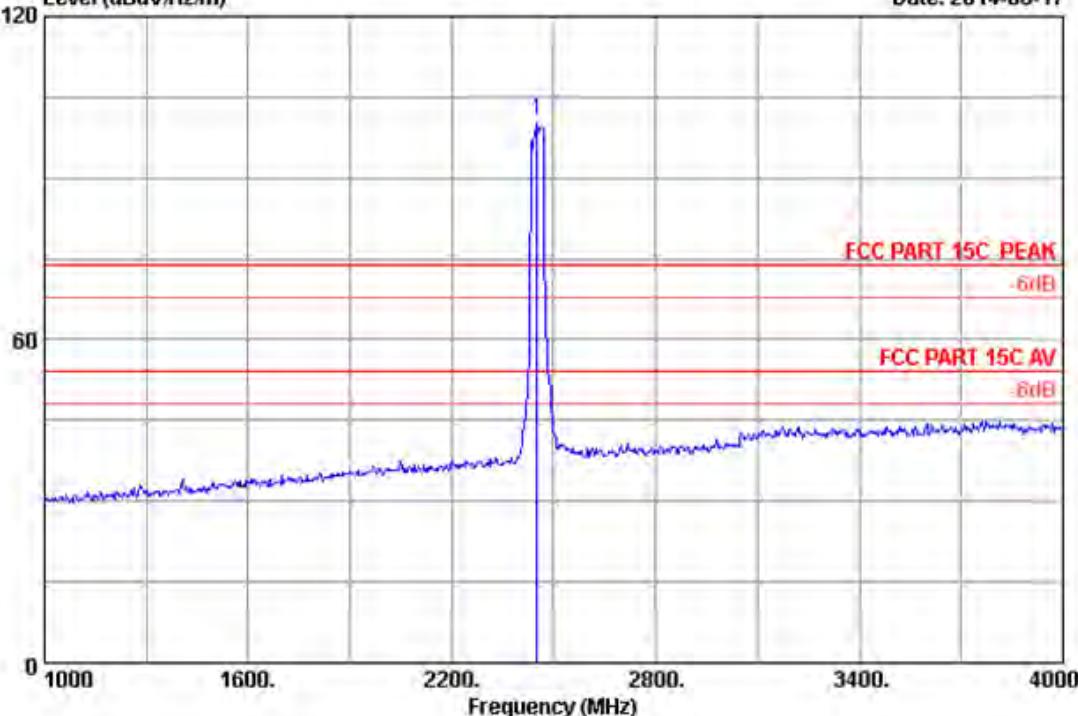
No.	Freq. (MHz)	Ant.	Cable	AMP	Emission				Remark
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	4874.000	32.97	8.63	35.70	46.87	52.77	74.00	21.23	Peak
2	4874.000	32.97	8.63	35.70	35.76	41.66	54.00	12.34	Average

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: 95 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)

Level (dBuV/Hz/m)

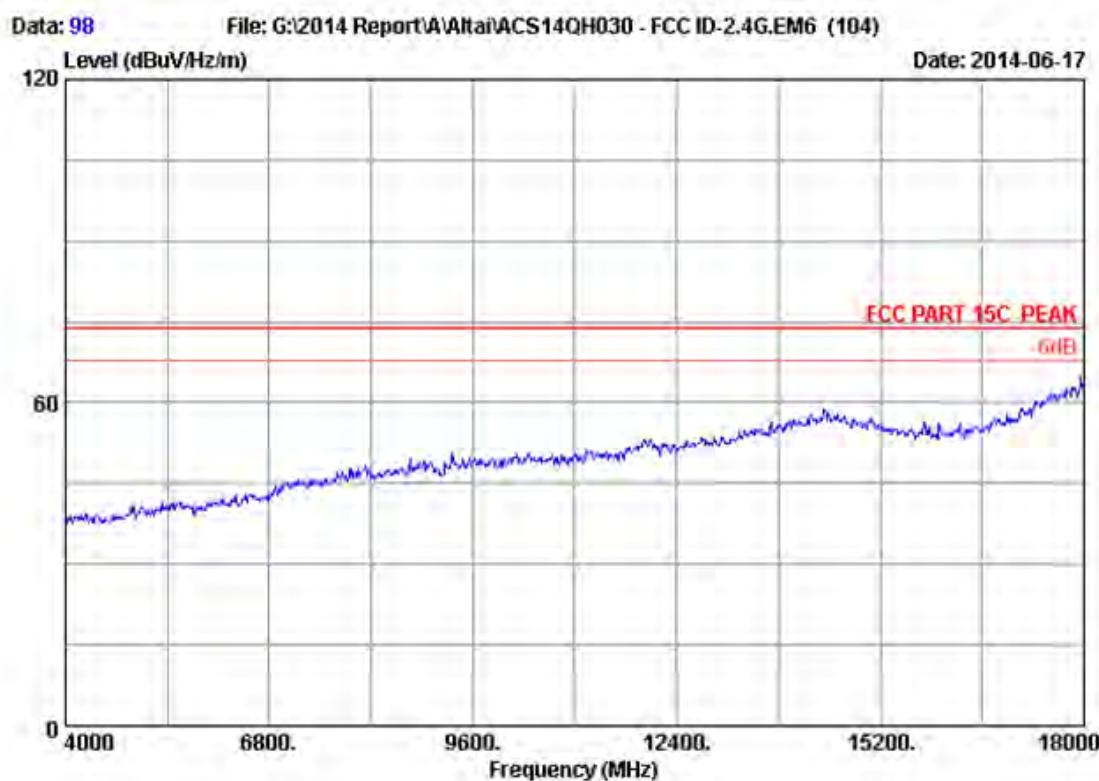
Date: 2014-06-17



Site no. : 3m Chamber Data no. : 95
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 2452MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Emission			
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	2452.000	28.29	5.87	35.70	102.07	100.53	74.00	-26.53 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.

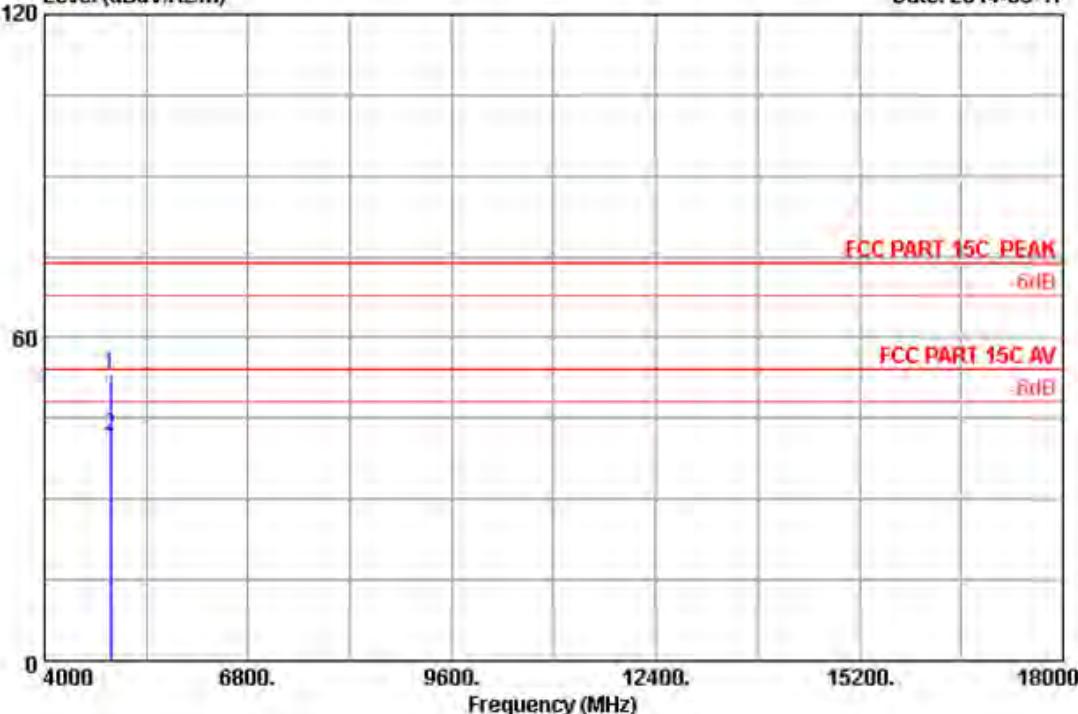


Site no.	:	3m Chamber	Data no. :	98
Dis. / Ant.	:	3m 2013 3115 (4580)	Ant. pol. :	VERTICAL
Limit	:	FCC PART 15C PEAK		
Env. / Ins.	:	24°C/56%	Engineer :	Leo-Li
EUT	:	Altai A2-Ei Dual-band WiFi Access Point		
Power Rating	:	DC 56V From POE Input AC 120V/60Hz		
Test Mode	:	IEEE802.11nHT40 2452MHz Tx		
M/N	:	WA2011N-E		

Data: 99 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)

Level (dBuV/Hz/m)

Date: 2014-06-17



Site no. : 3m Chamber Data no. : 99
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 2452MHz Tx
M/N : WA2011N-E

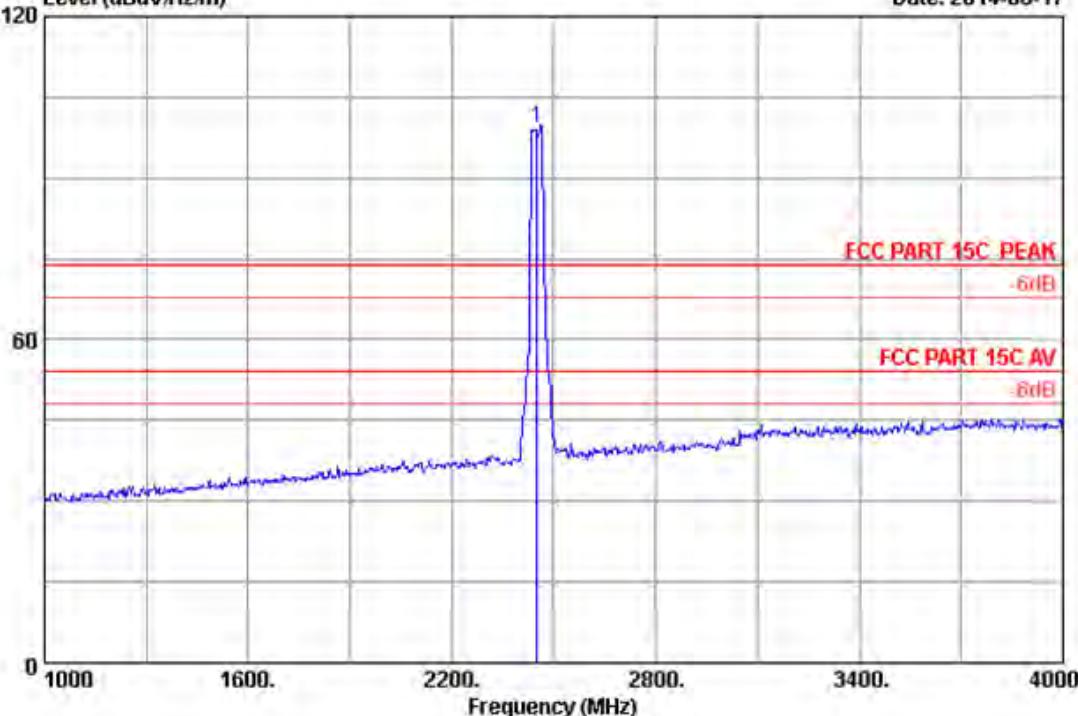
No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	4904.000	33.03	8.66	35.70	47.06	53.05	74.00	20.95 Peak
2	4904.000	33.03	8.66	35.70	35.72	41.71	54.00	12.29 Average

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: 100 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)

Level (dBuV/Hz/m)

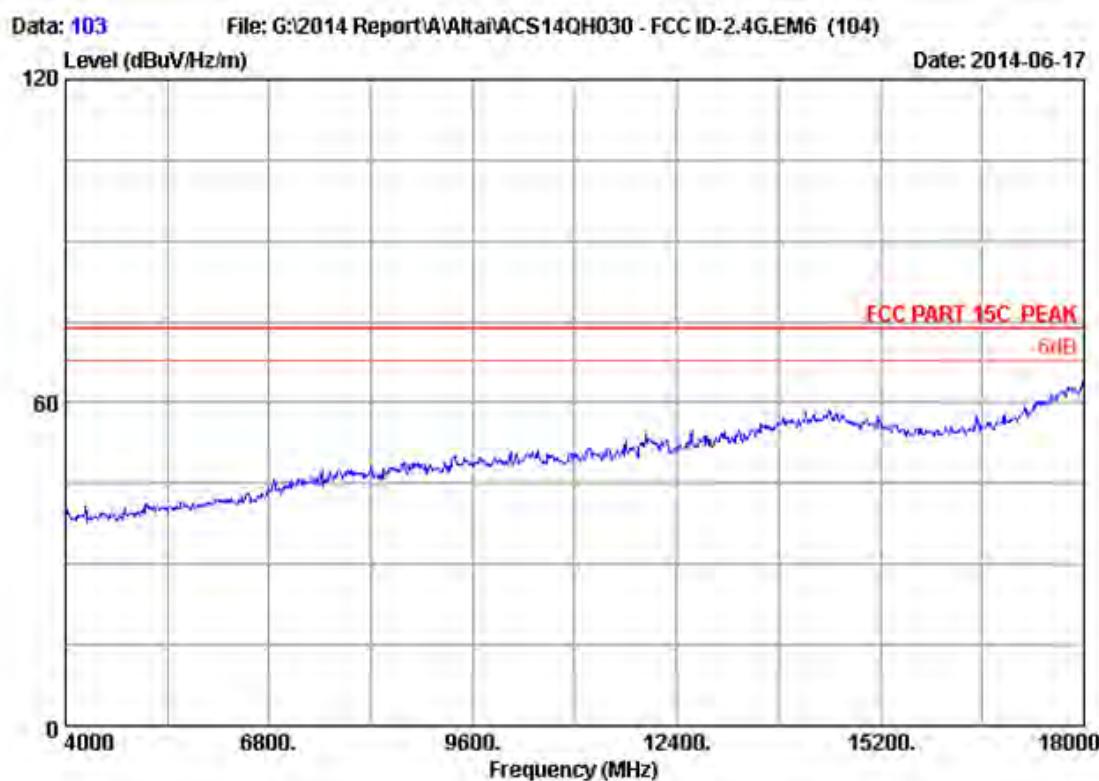
Date: 2014-06-17



Site no. : 3m Chamber Data no. : 100
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 2452MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	2452.000	28.29	5.87	35.70	100.79	99.25	74.00	-25.25 Peak

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

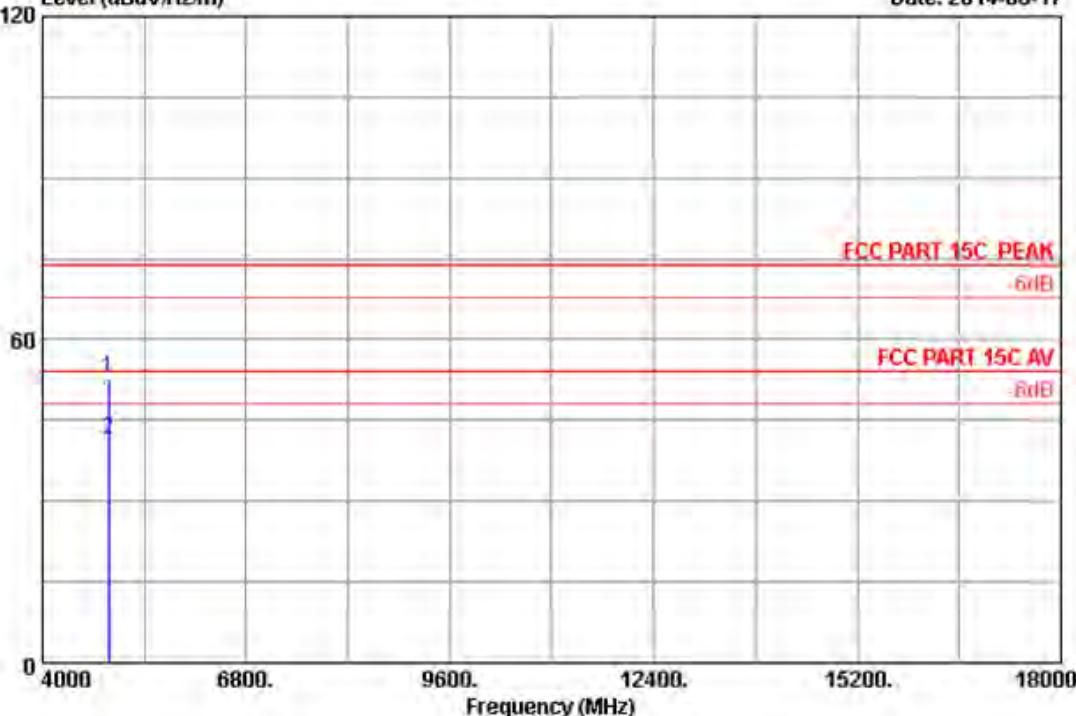


Site no.	:	3m Chamber	Data no. :	103
Dis. / Ant.	:	3m 2013 3115 (4580)	Ant. pol. :	HORIZONTAL
Limit	:	FCC PART 15C PEAK		
Env. / Ins.	:	24°C/56%	Engineer :	Leo-Li
EUT	:	Altai A2-Ei Dual-band WiFi Access Point		
Power Rating	:	DC 56V From POE Input AC 120V/60Hz		
Test Mode	:	IEEE802.11nHT40 2452MHz Tx		
M/N	:	WA2011N-E		

Data: 104 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-2.4G.EM6 (104)

Level (dBuV/Hz/m)

Date: 2014-06-17



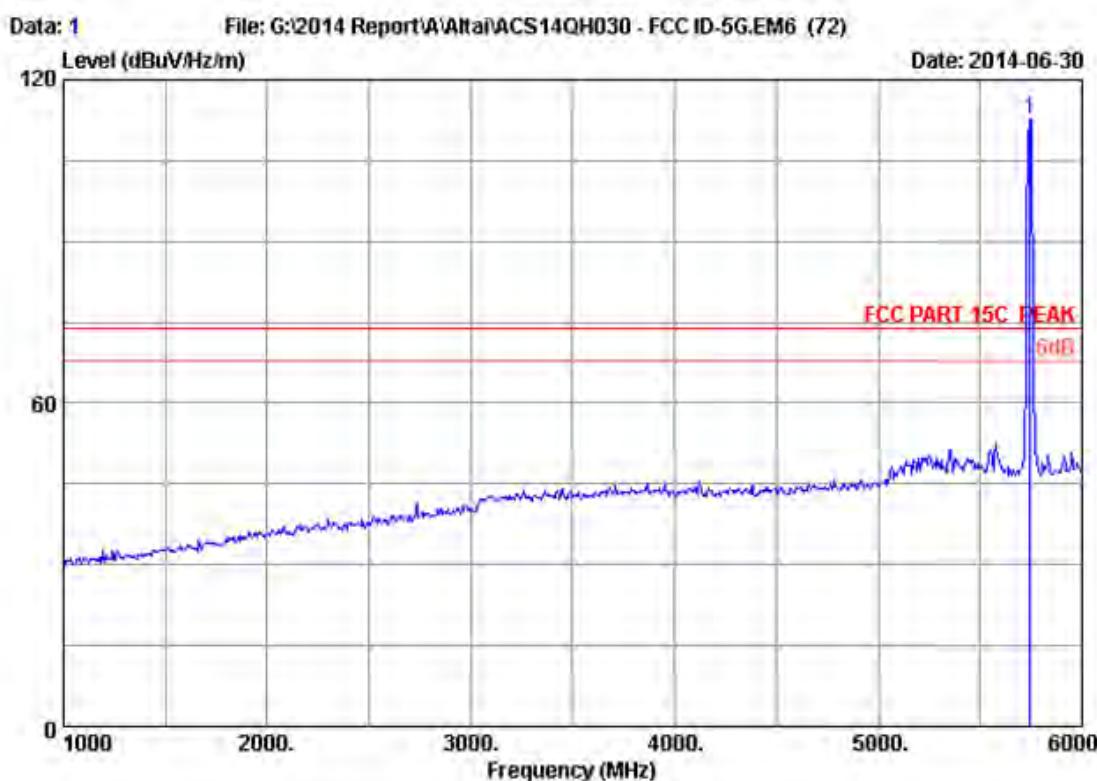
Site no. : 3m Chamber Data no. : 104
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 2452MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission				Margin (dB)	Remark
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)		
1	4904.000	33.03	8.66	35.70	46.87	52.86	74.00	21.14	Peak	
2	4904.000	33.03	8.66	35.70	35.43	41.42	54.00	12.58	Average	

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

5.8G:

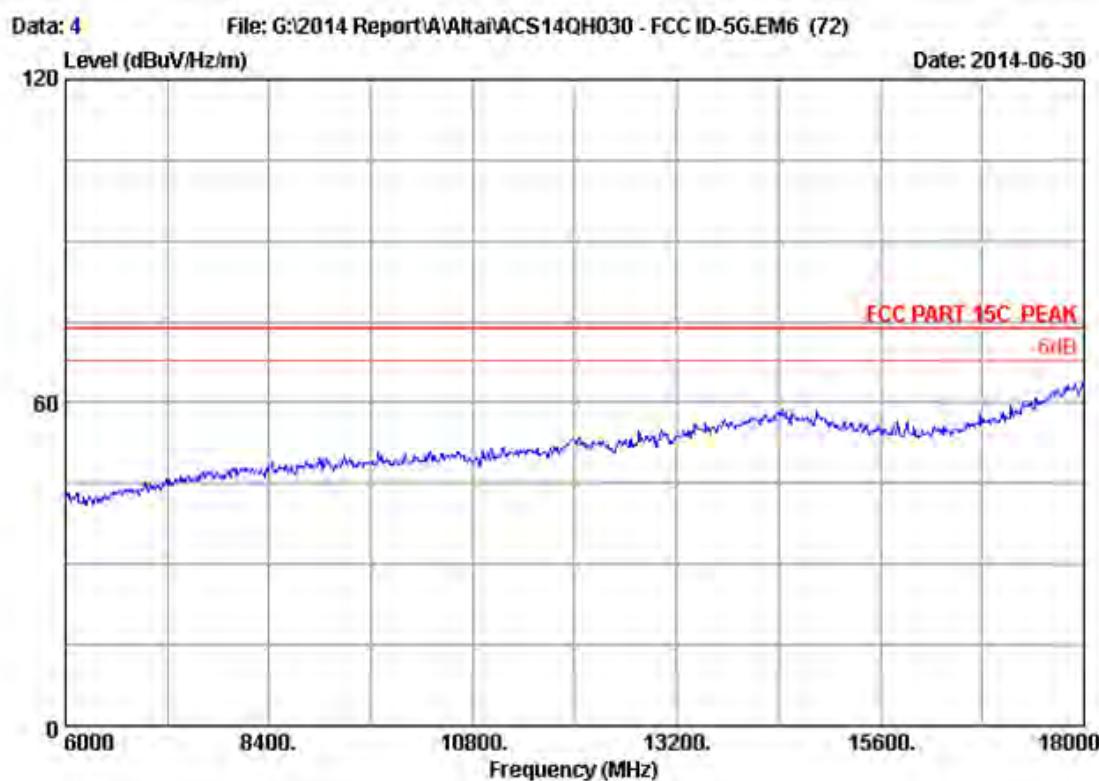
Frequency: 1GHz~6GHz



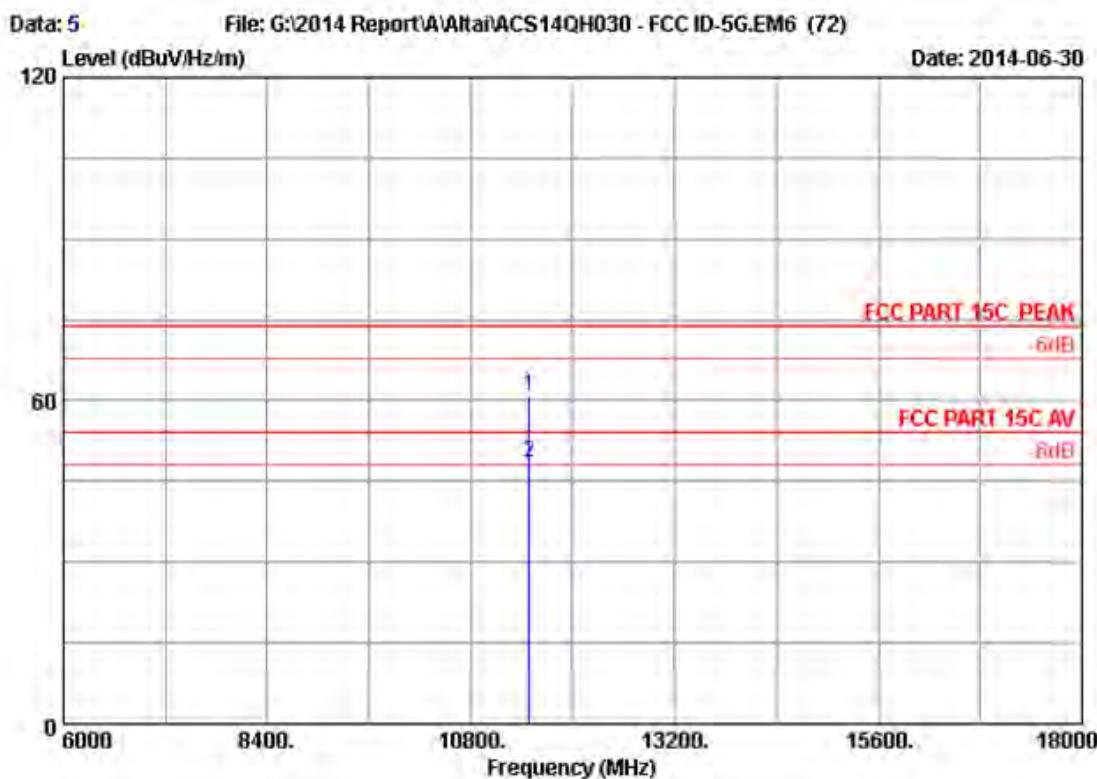
Site no. : 3m Chamber Data no. : 1
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56°F Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5745MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Emission			
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	5745.000	34.10	9.55	35.70	104.62	112.57	74.00	-38.57 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. : 4
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5745MHz Tx
M/N : WA2011N-E



Site no. : 3m Chamber Data no. : 5
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5745MHz Tx
M/N : WA2011N-E

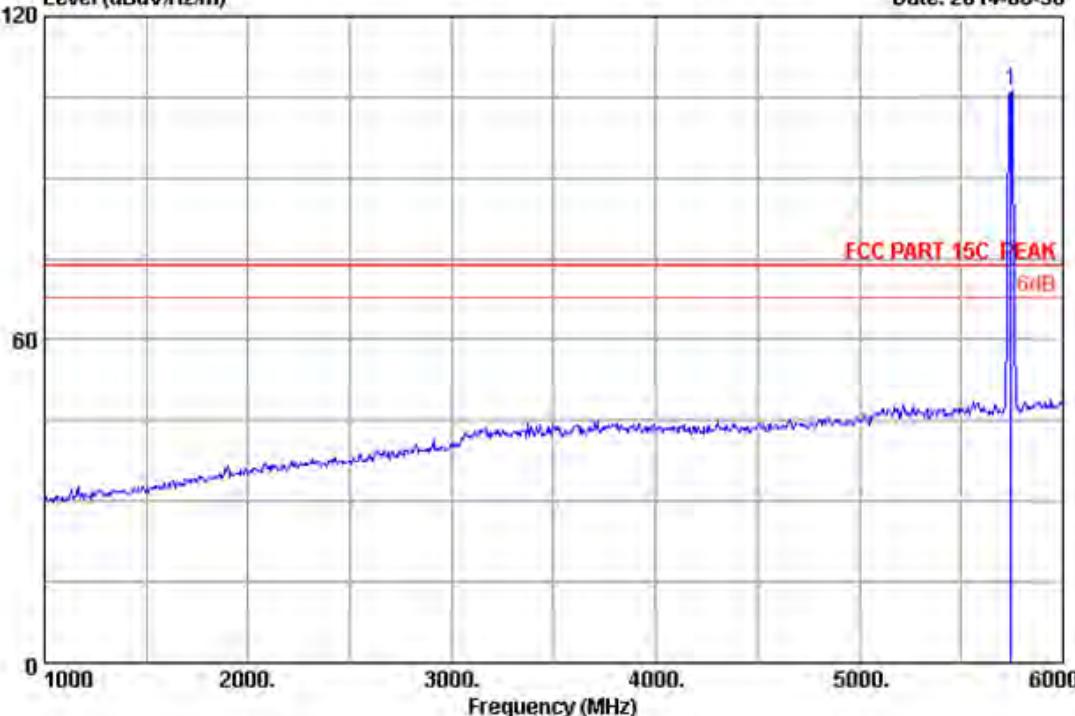
No.	Freq. (MHz)	Ant. Factor	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission			Remark
						Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	11490.000	38.69	13.28	35.28	44.13	60.82	74.00	13.18	Peak
2	11490.000	38.69	13.28	35.28	31.92	48.61	54.00	5.39	Average

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.

Data: 6 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-5G.EM6 (72)

Level (dBuV/Hz/m)

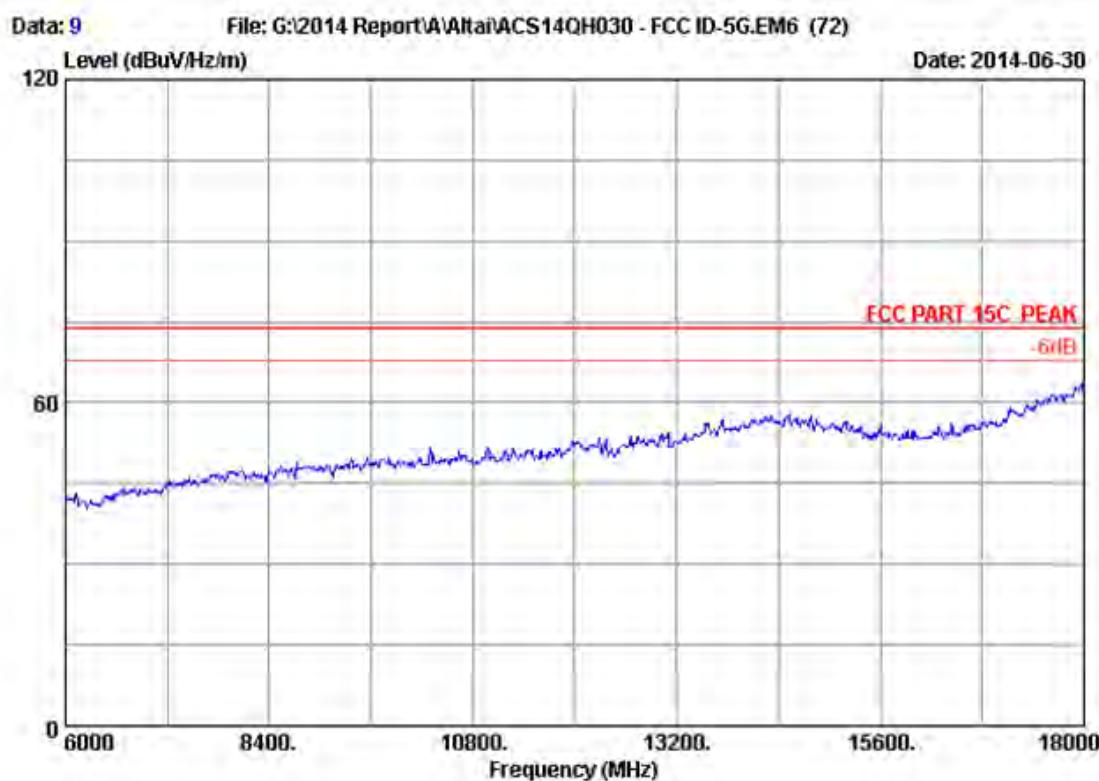
Date: 2014-06-30



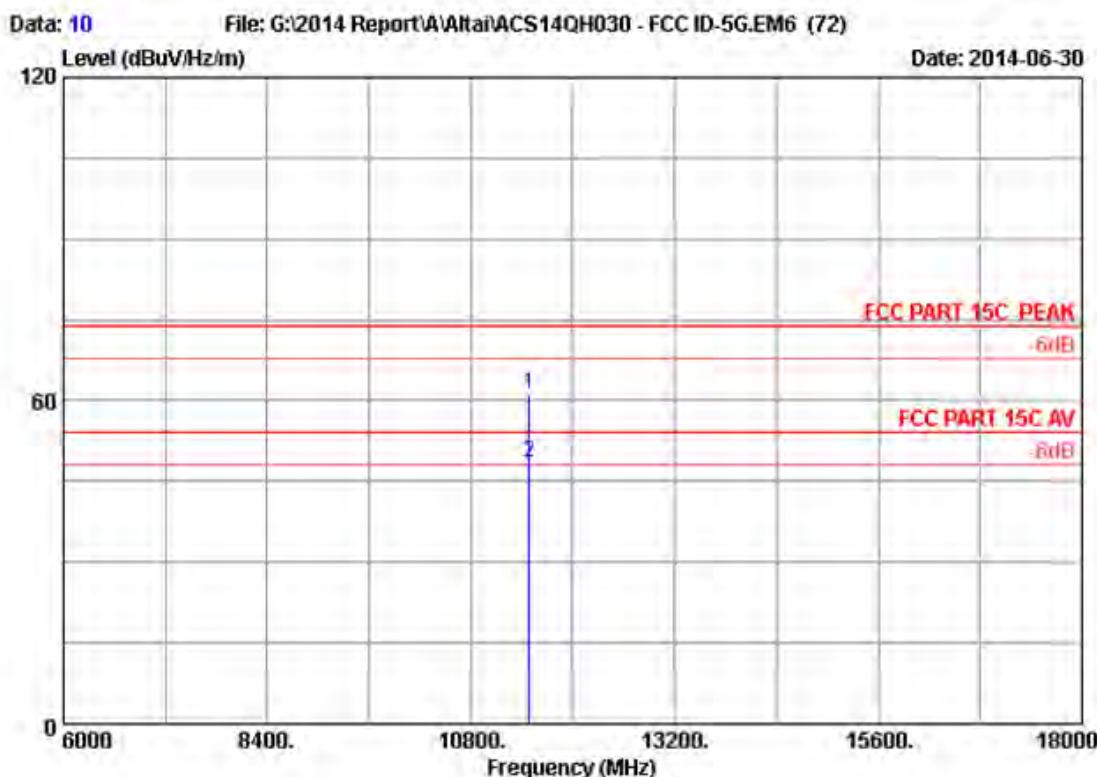
Site no. : 3m Chamber Data no. : 6
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5745MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	5745.000	34.10	9.55	35.70	98.45	106.40	74.00	-32.40 Peak

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



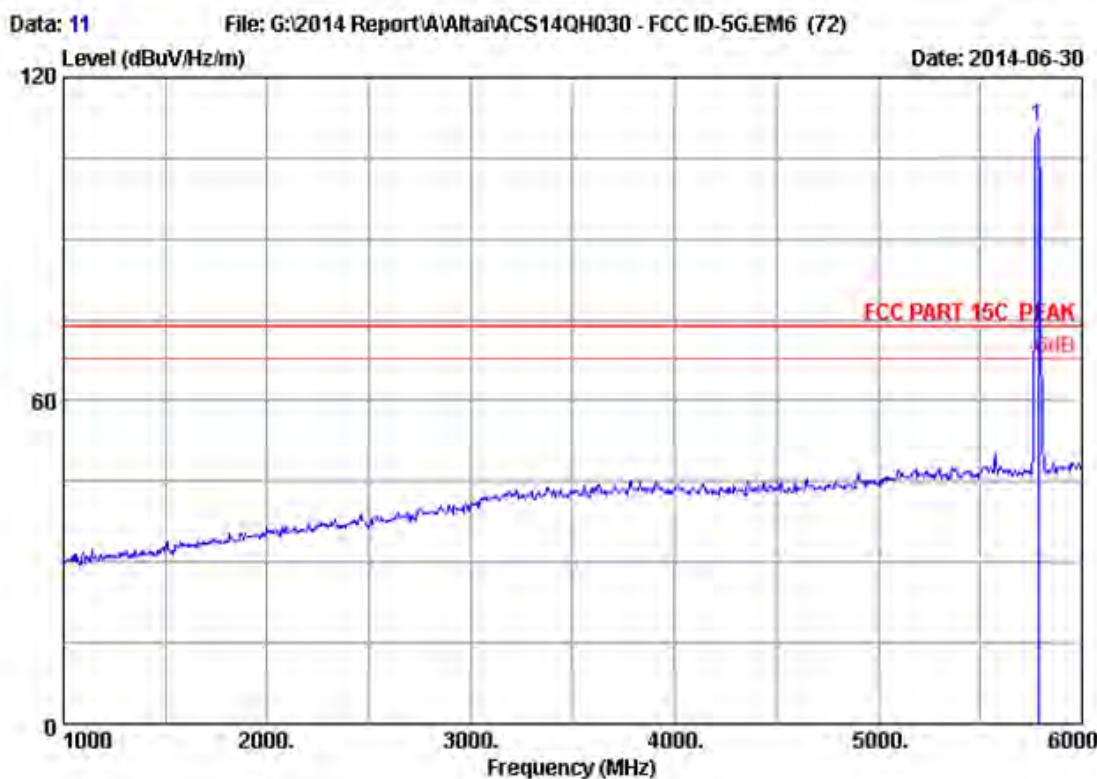
Site no. : 3m Chamber Data no. : 9
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5745MHz Tx
M/N : WA2011N-E



Site no. : 3m Chamber Data no. : 10
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5745MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission				
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	11490.000	38.69	13.28	35.28	44.58	61.27	74.00	12.73	Peak
2	11490.000	38.69	13.28	35.28	31.70	48.39	54.00	5.61	Average

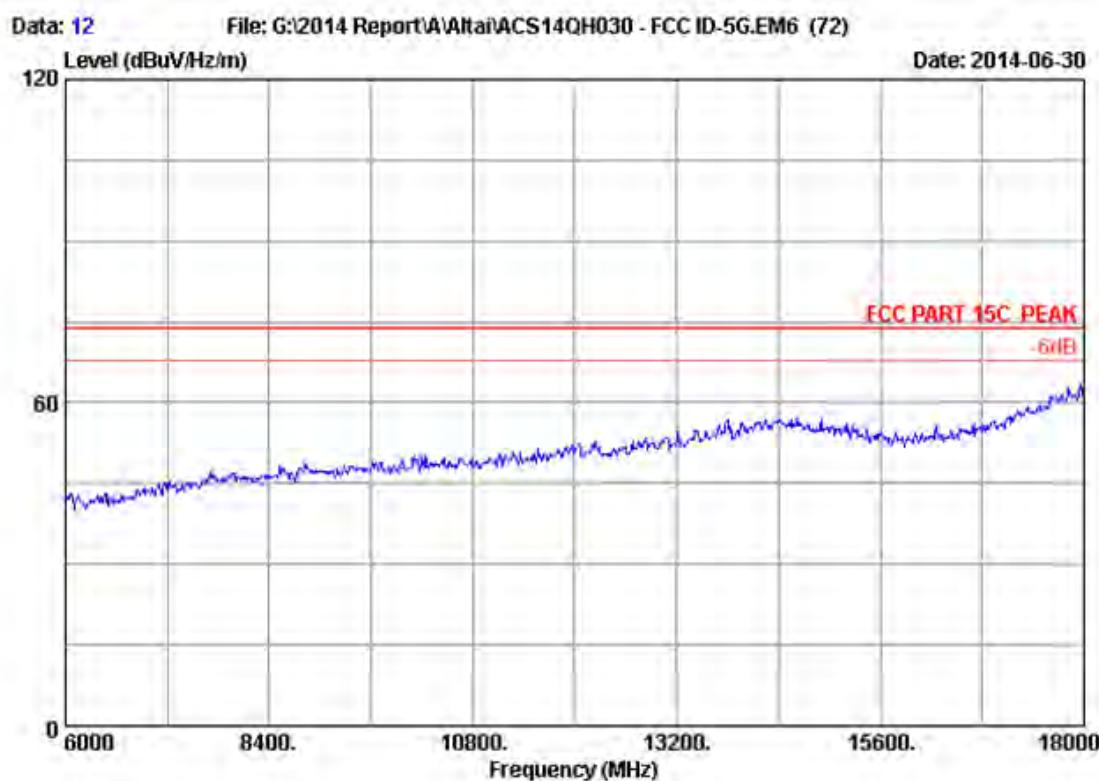
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



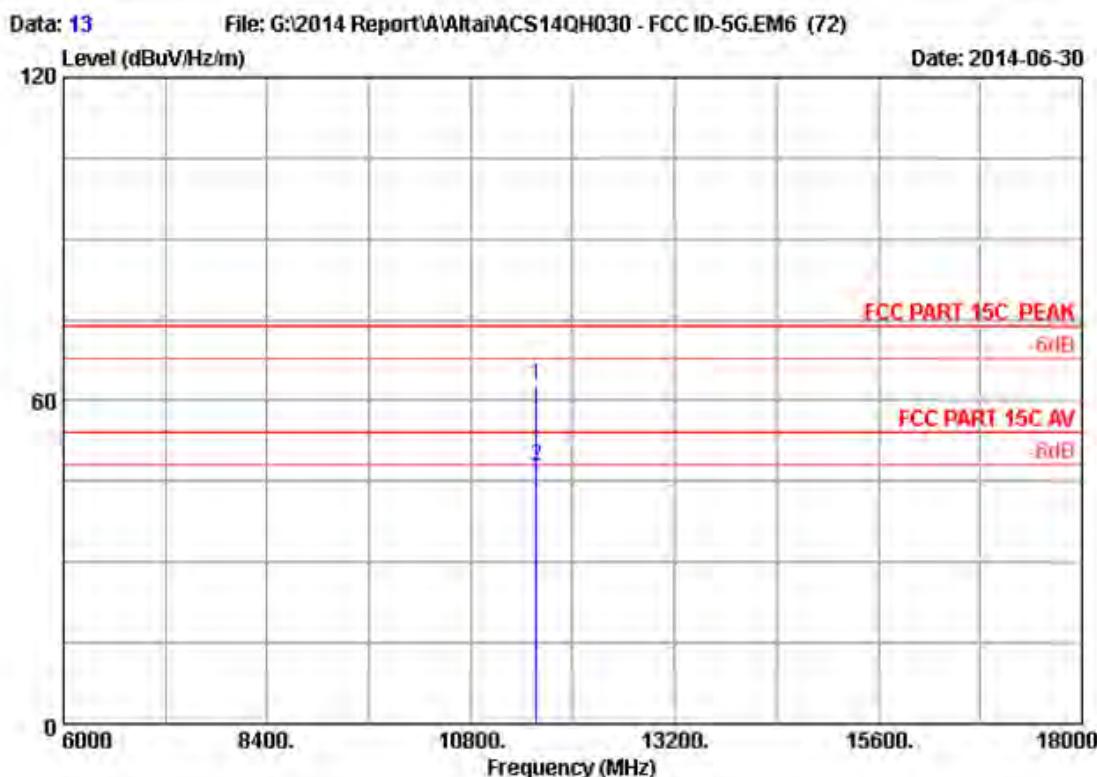
Site no. : 3m Chamber Data no. : 11
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5785MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	5785.000	34.11	9.59	35.70	102.87	110.87	74.00	-36.87 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.



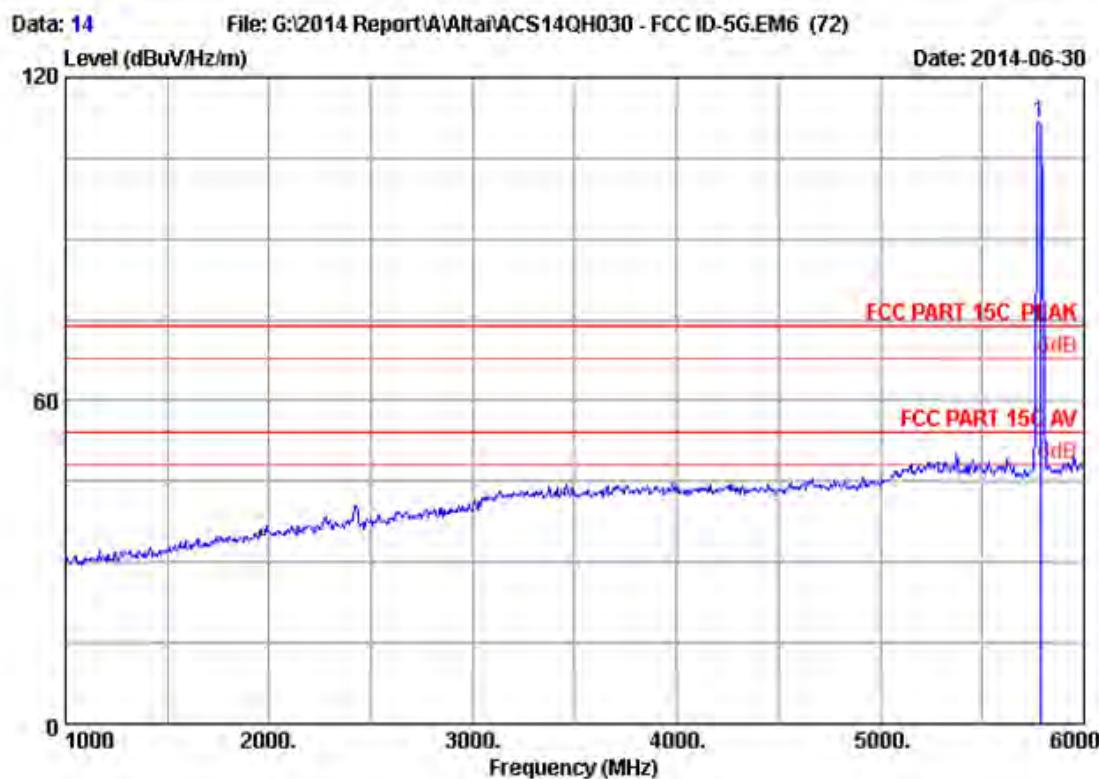
Site no. : 3m Chamber Data no. : 12
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5785MHz Tx
M/N : WA2011N-E



Site no. : 3m Chamber Data no. : 13
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5785MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	11570.000	38.80	13.32	35.26	45.86	62.72	74.00	11.28 Peak
2	11570.000	38.80	13.32	35.26	31.06	47.92	54.00	6.08 Average

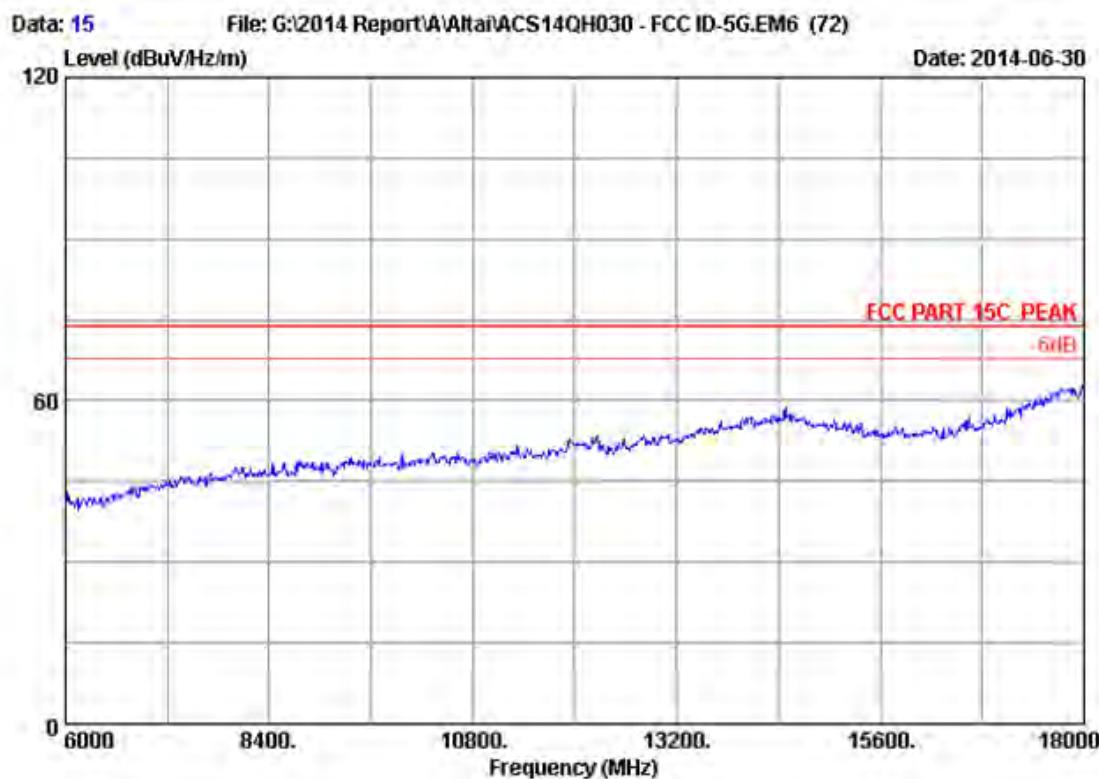
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



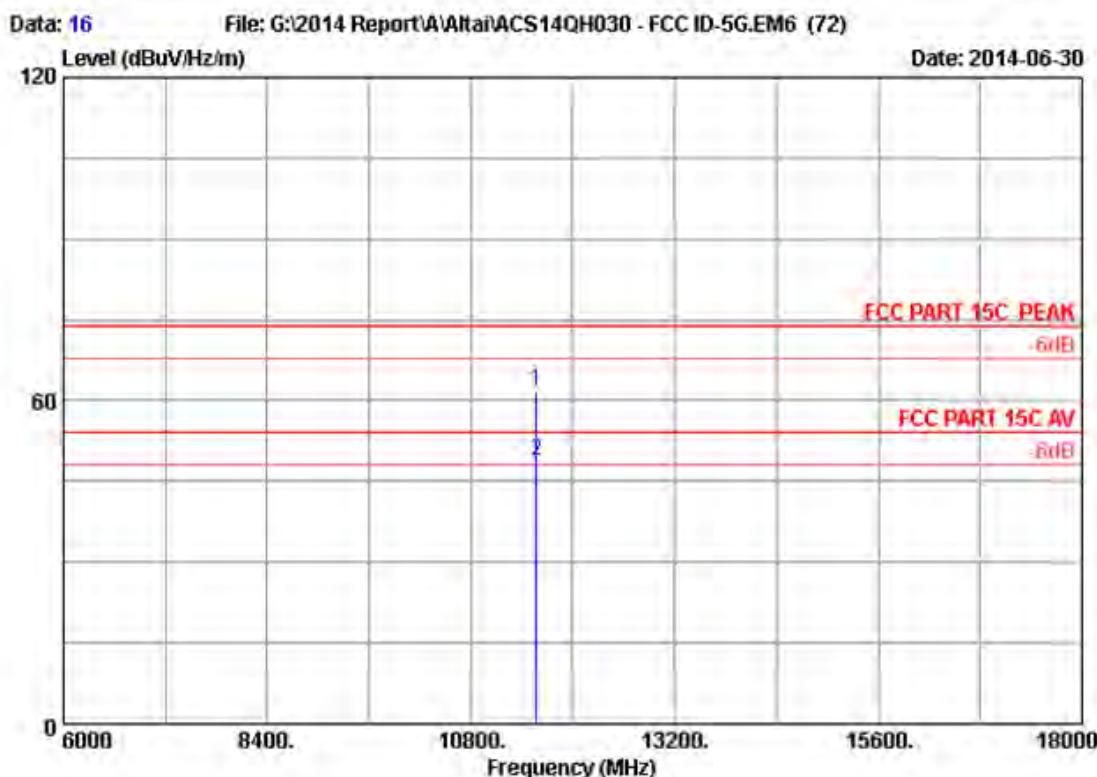
Site no. : 3m Chamber Data no. : 14
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5785MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	5785.000	34.11	9.59	35.70	103.69	111.69	74.00	-37.69 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.



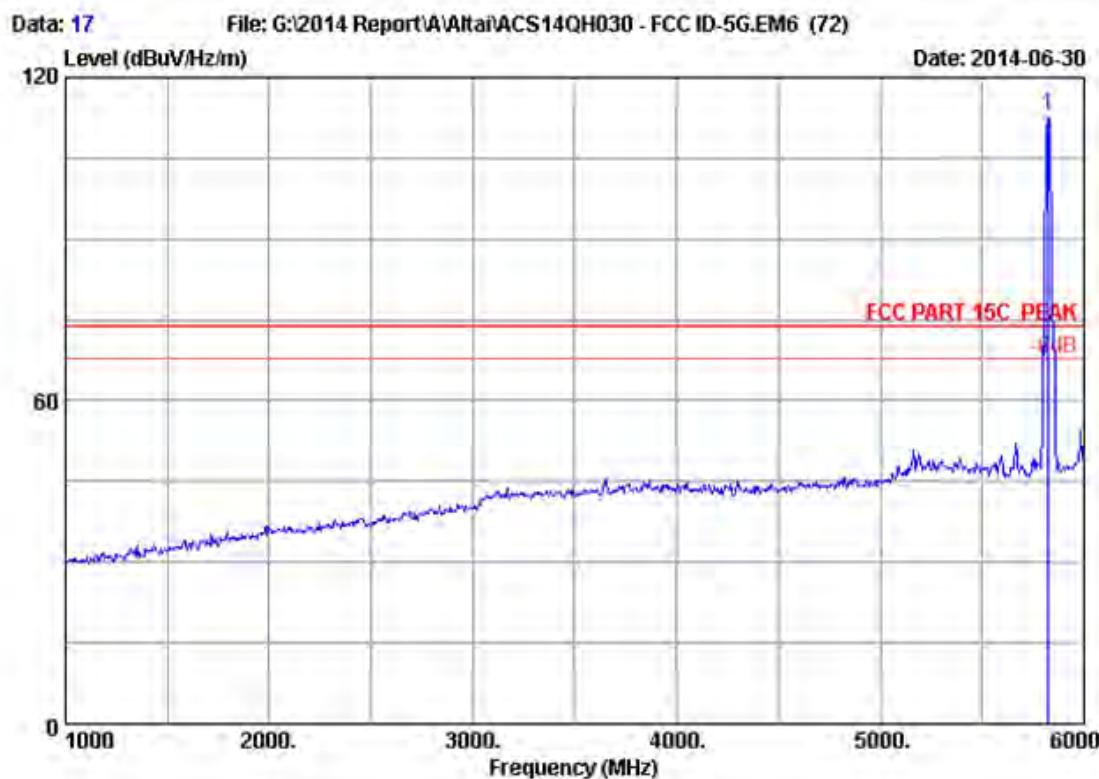
Site no. : 3m Chamber Data no. : 15
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5785MHz Tx
M/N : WA2011N-E



Site no. : 3m Chamber Data no. : 16
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5785MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	11570.000	38.80	13.32	35.26	45.07	61.93	74.00	12.07 Peak
2	11570.000	38.80	13.32	35.26	32.04	48.90	54.00	5.10 Average

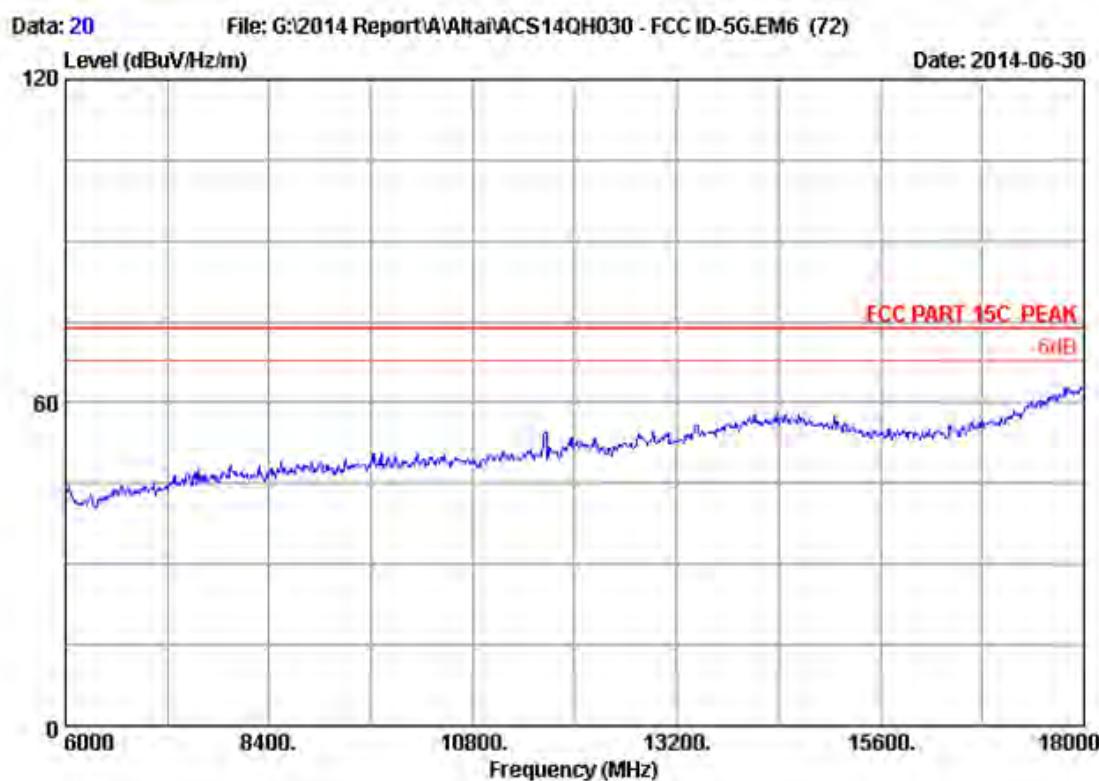
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



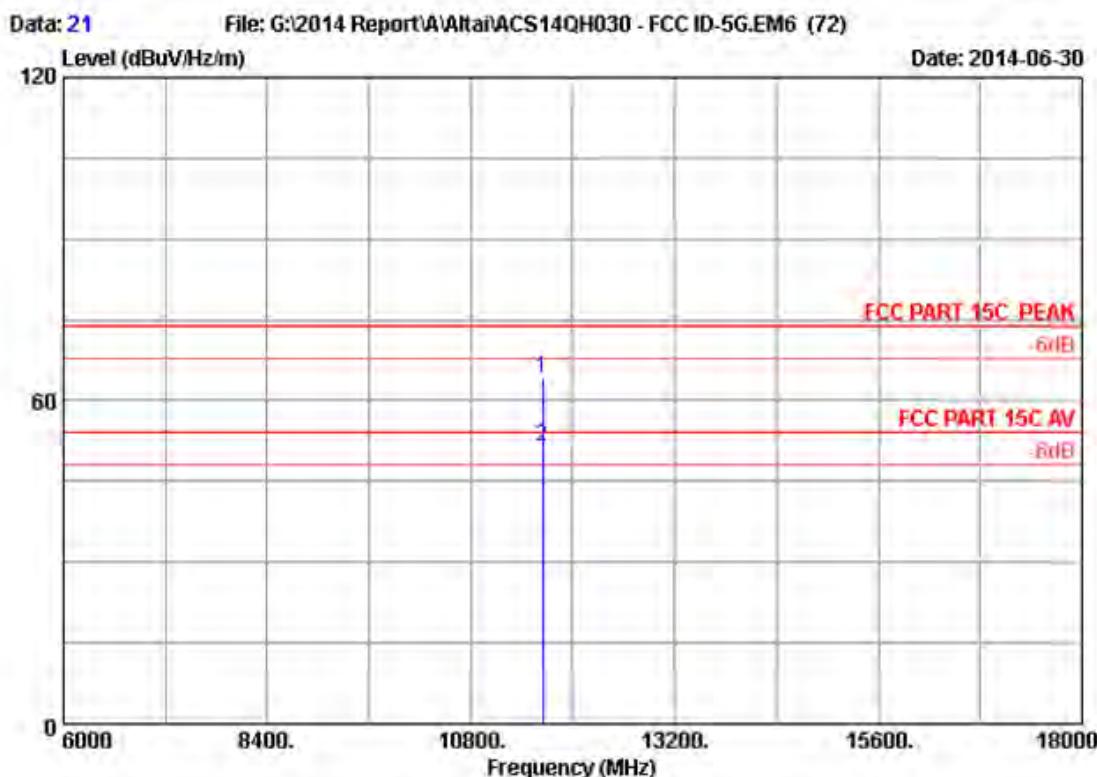
Site no. : 3m Chamber Data no. : 17
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5825MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	5825.000	34.13	9.63	35.70	104.90	112.96	74.00	-38.96 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.



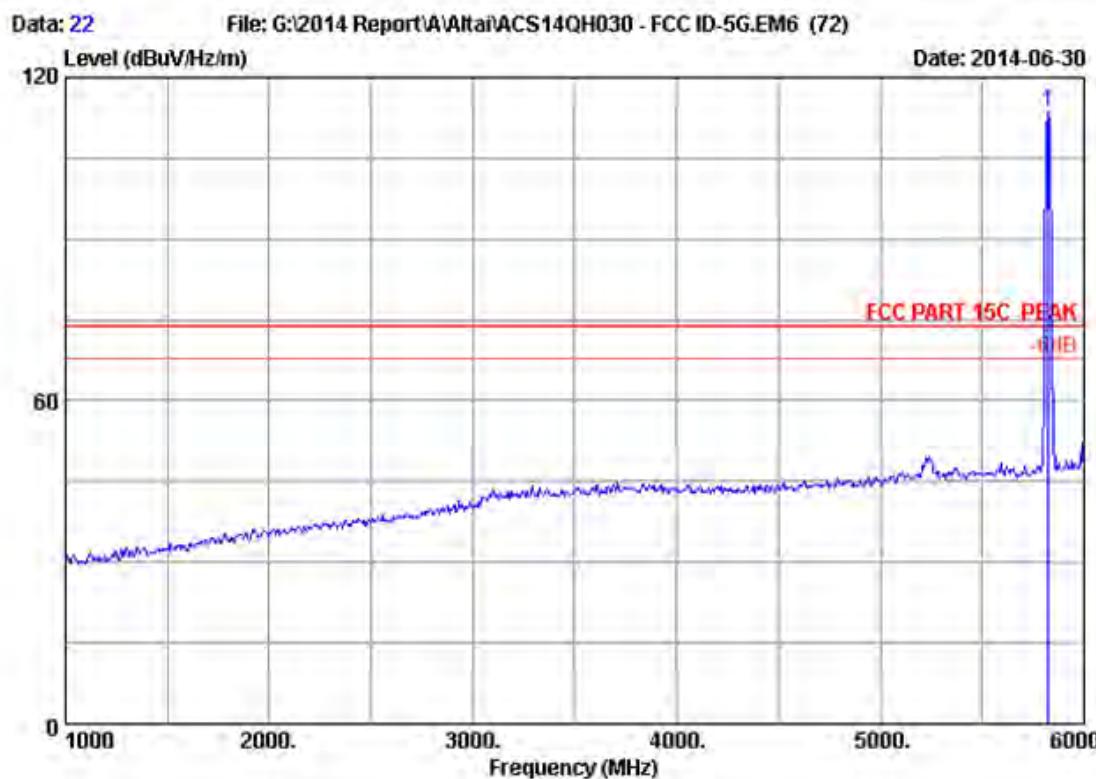
Site no.	:	3m Chamber	Data no.	:	20
Dis. / Ant.	:	3m 2013 3115 (4580)	Ant. pol.	:	HORIZONTAL
Limit	:	FCC PART 15C PEAK			
Env. / Ins.	:	24°C/56%	Engineer	:	Leo-Li
EUT	:	Altai A2-Ei Dual-band WiFi Access Point			
Power Rating	:	DC 56V From POE Input AC 120V/60Hz			
Test Mode	:	IEEE802.11a 5825MHz Tx			
M/N	:	WA2011N-E			



Site no. : 3m Chamber Data no. : 21
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5825MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	11650.000	38.91	13.37	35.25	47.11	64.14	74.00	9.86 Peak
2	11650.000	38.91	13.37	35.25	34.55	51.58	54.00	2.42 Average

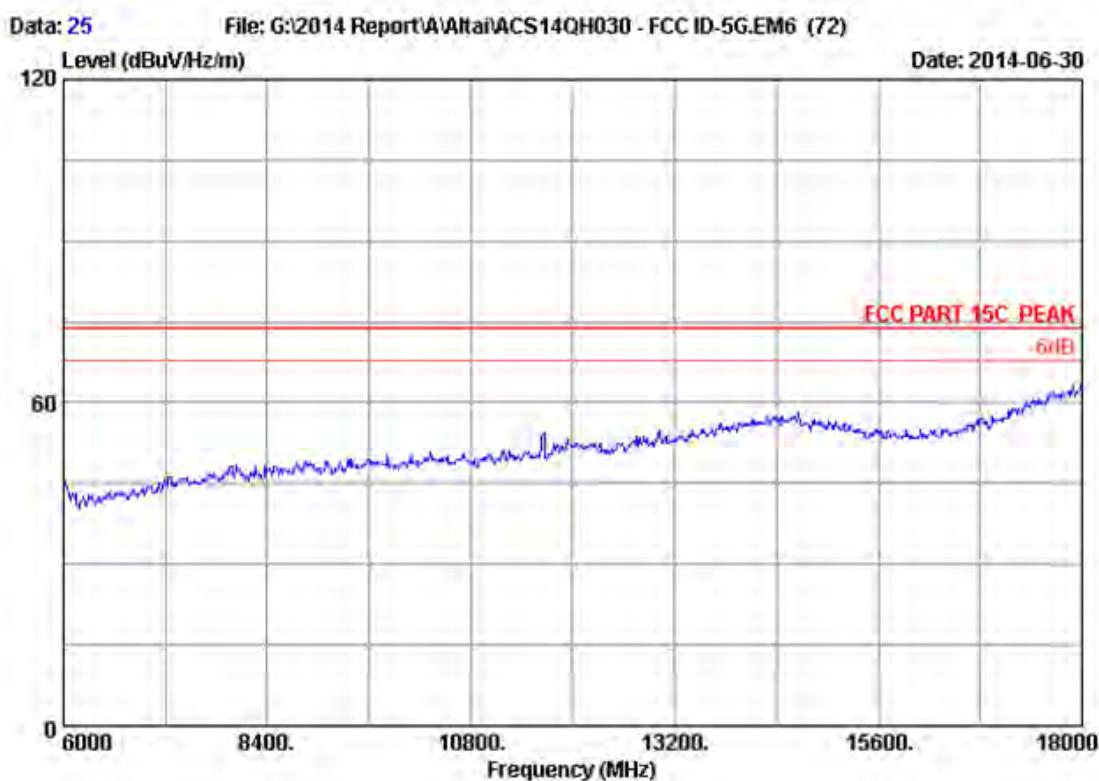
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



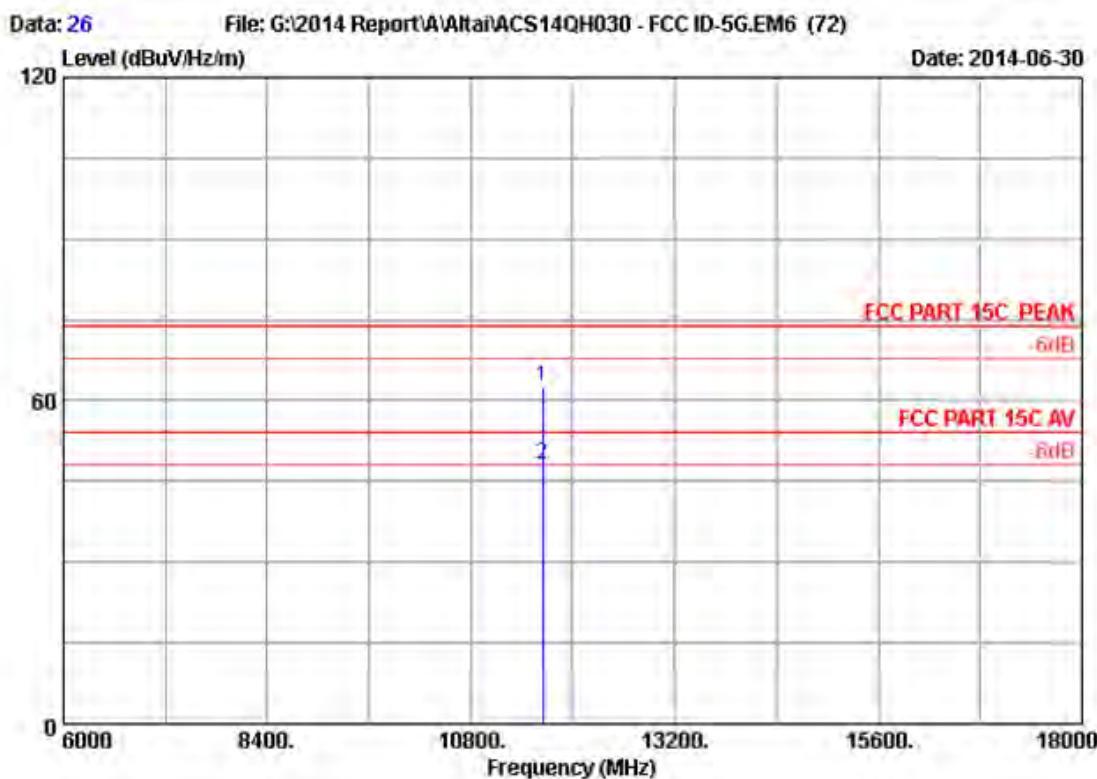
Site no. : 3m Chamber Data no. : 22
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5825MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	5825.000	34.13	9.63	35.70	105.46	113.52	74.00	-39.52 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.



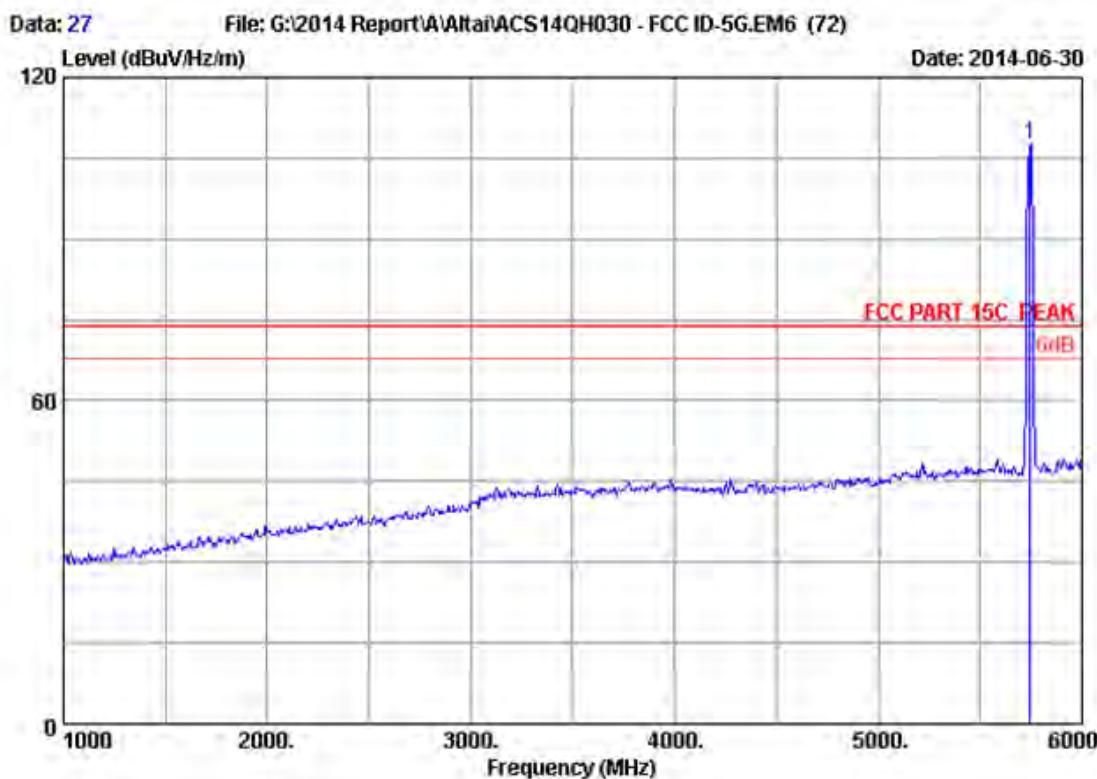
Site no.	:	3m Chamber	Data no. :	25
Dis. / Ant.	:	3m 2013 3115 (4580)	Ant. pol. :	VERTICAL
Limit	:	FCC PART 15C PEAK		
Env. / Ins.	:	24°C/56%	Engineer :	Leo-Li
EUT	:	Altai A2-Ei Dual-band WiFi Access Point		
Power Rating	:	DC 56V From POE Input AC 120V/60Hz		
Test Mode	:	IEEE802.11a 5825MHz Tx		
M/N	:	WA2011N-E		



Site no. : 3m Chamber Data no. : 26
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11a 5825MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	11650.000	38.91	13.37	35.25	45.62	62.65	74.00	11.35 Peak
2	11650.000	38.91	13.37	35.25	31.05	48.08	54.00	5.92 Average

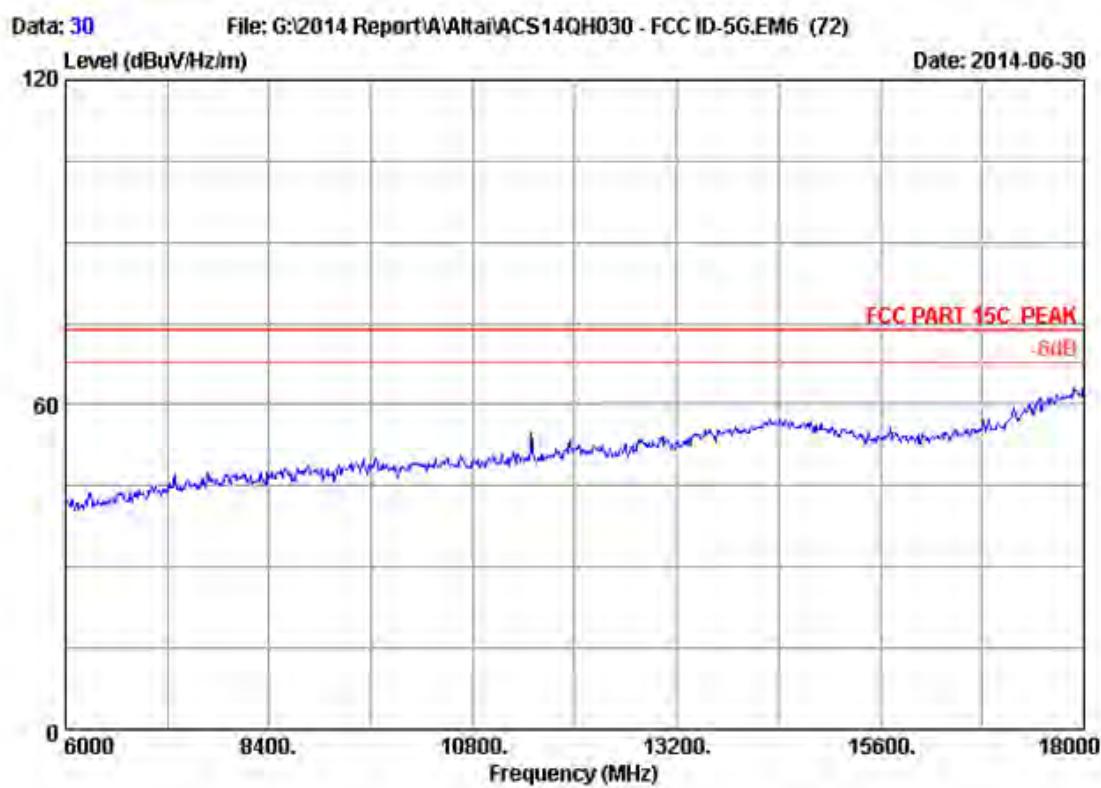
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



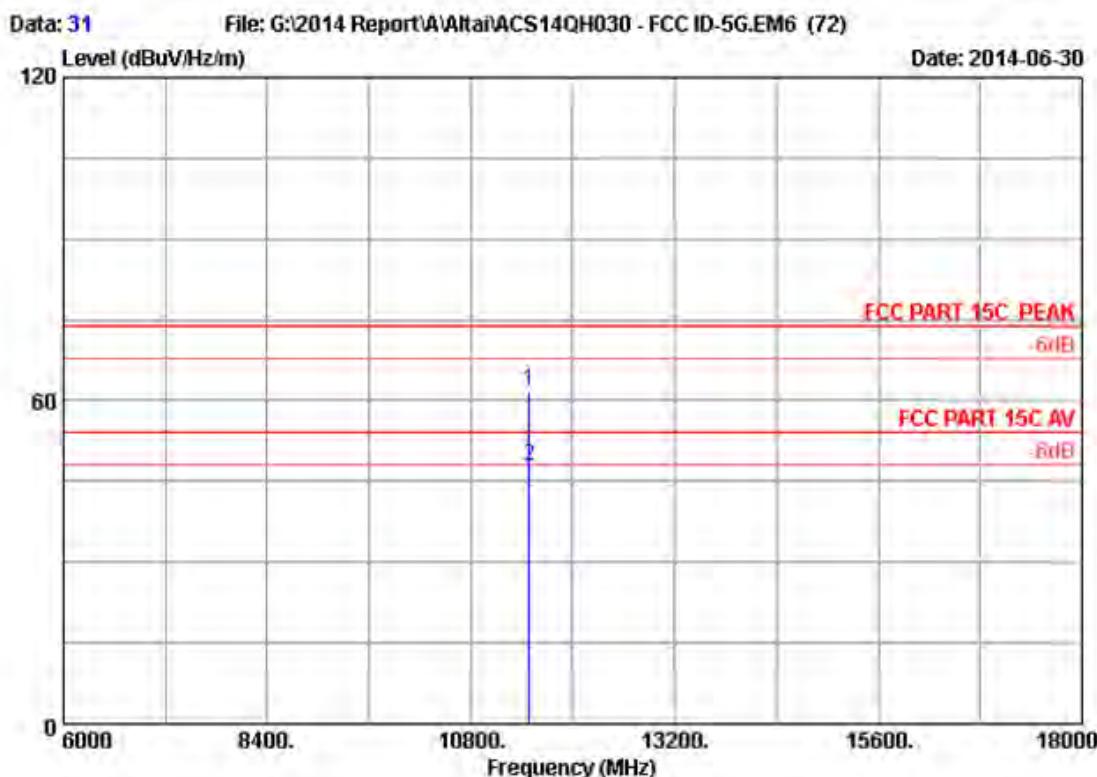
Site no. : 3m Chamber Data no. : 27
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5745MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	5745.000	34.10	9.55	35.70	99.84	107.79	74.00	-33.79 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.



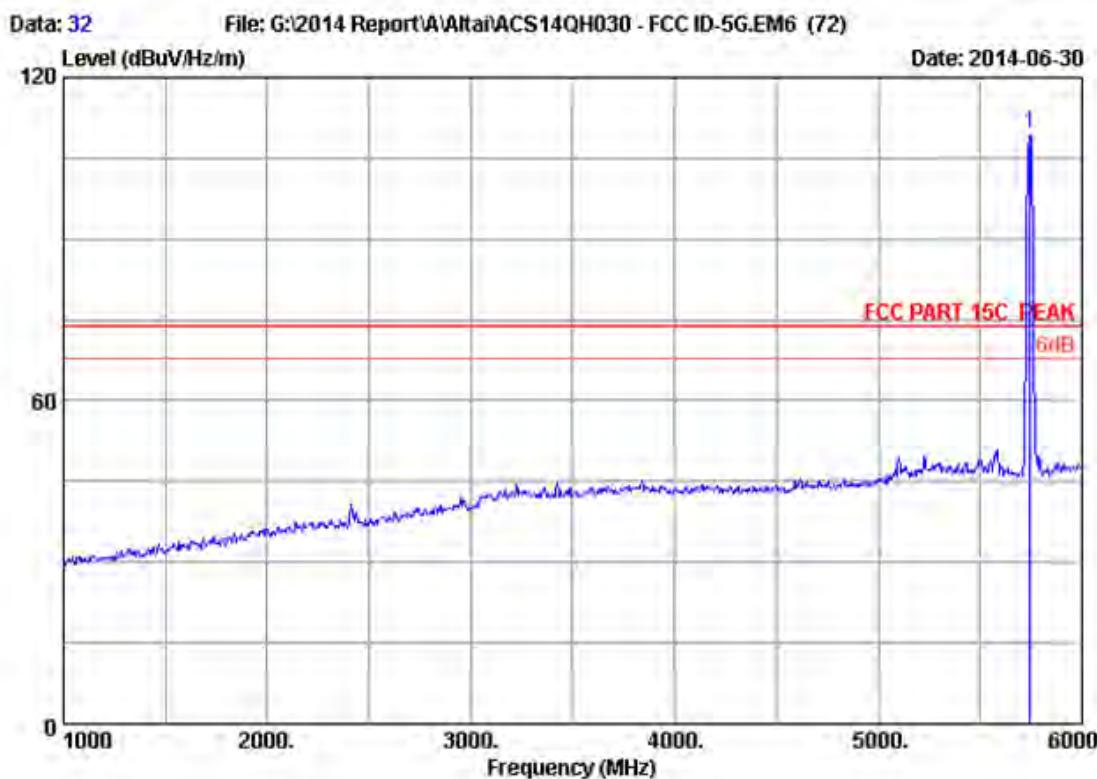
Site no.	:	3m Chamber	Data no. :	30
Dis. / Ant.	:	3m 2013 3115 (4580)	Ant. pol. :	VERTICAL
Limit	:	FCC PART 15C PEAK		
Env. / Ins.	:	24°C/56%	Engineer :	Leo-Li
EUT	:	Altai A2-Ei Dual-band WiFi Access Point		
Power Rating	:	DC 56V From POE Input AC 120V/60Hz		
Test Mode	:	IEEE802.11nHT20 5745MHz Tx		
M/N	:	WA2011N-E		



Site no. : 3m Chamber Data no. : 31
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5745MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant. Factor	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission			Remark
						Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	11490.000	38.69	13.28	35.28	45.09	61.78	74.00	12.22	Peak
2	11490.000	38.69	13.28	35.28	31.06	47.77	54.00	6.23	Average

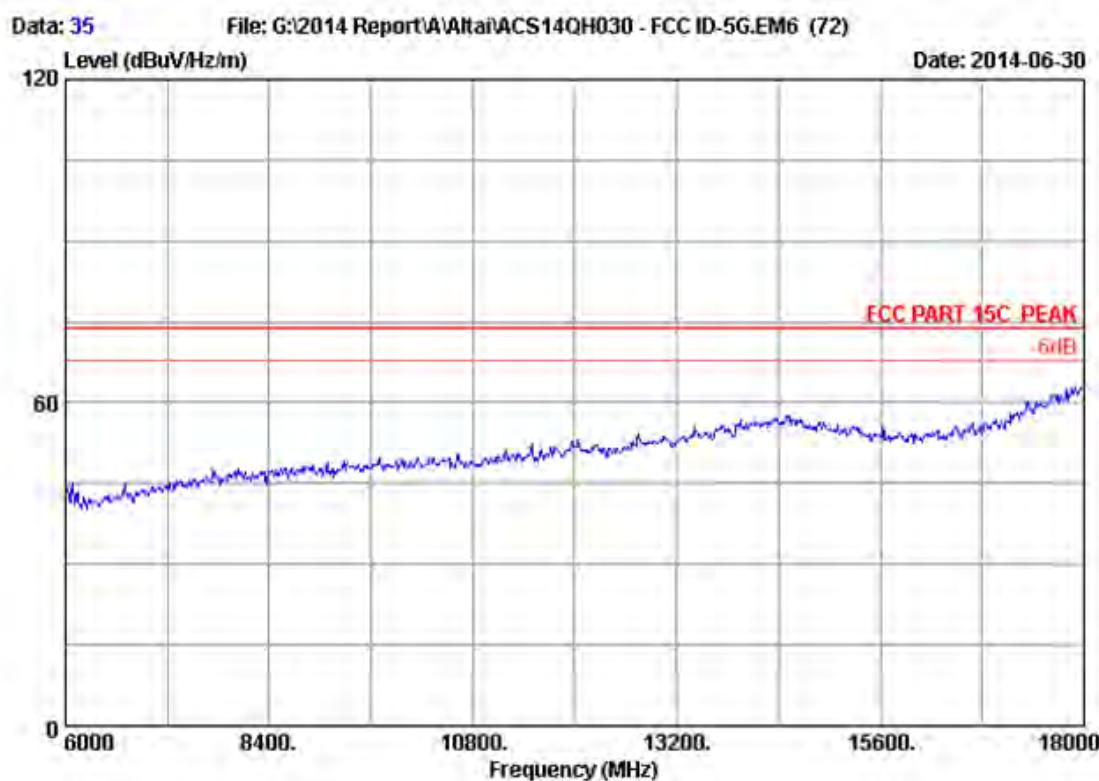
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



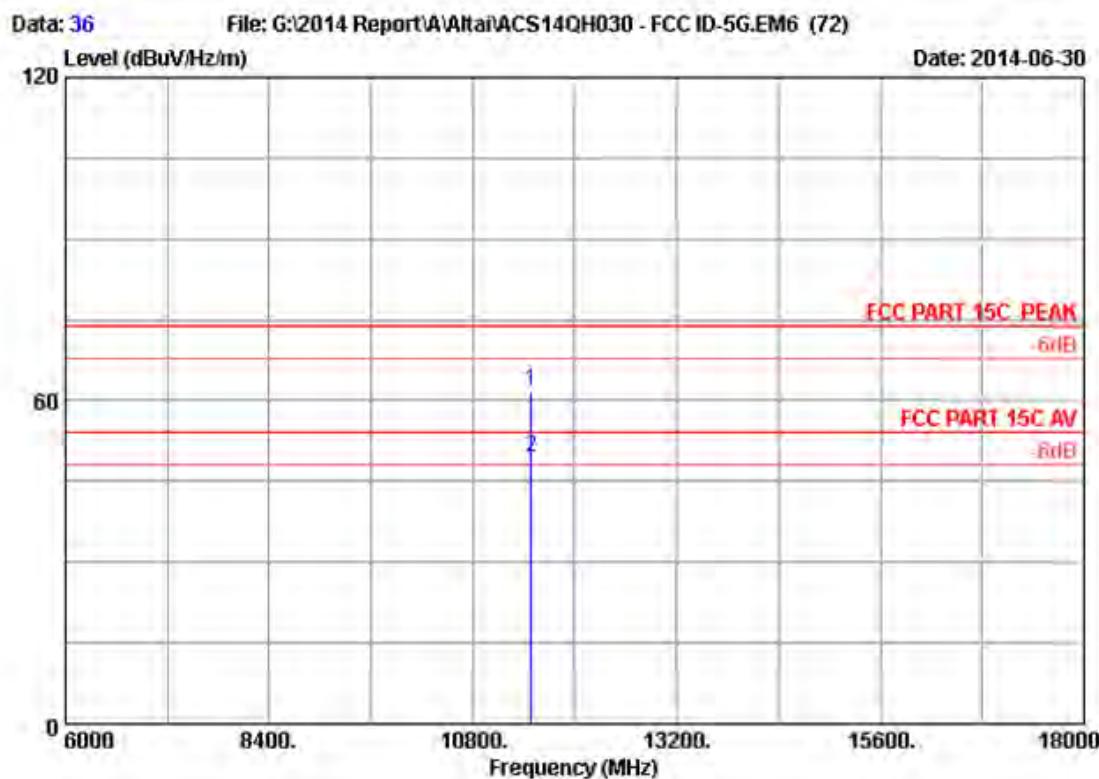
Site no. : 3m Chamber Data no. : 32
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5745MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	5745.000	34.10	9.55	35.70	101.84	109.79	74.00	-35.79 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.



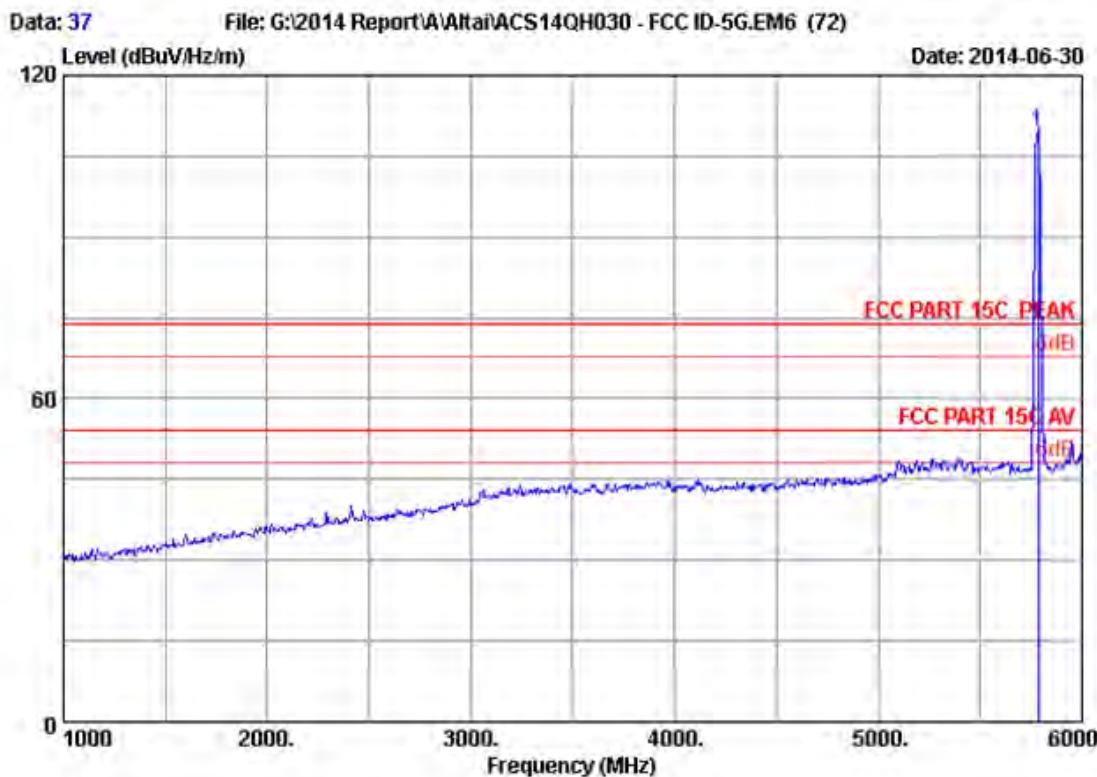
Site no.	:	3m Chamber	Data no. :	35
Dis. / Ant.	:	3m 2013 3115 (4580)	Ant. pol. :	HORIZONTAL
Limit	:	FCC PART 15C PEAK		
Env. / Ins.	:	24°C/56%	Engineer :	Leo-Li
EUT	:	Altai A2-Ei Dual-band WiFi Access Point		
Power Rating	:	DC 56V From POE Input AC 120V/60Hz		
Test Mode	:	IEEE802.11nHT20 5745MHz Tx		
M/N	:	WA2011N-E		



Site no. : 3m Chamber Data no. : 36
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5745MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission				
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	11490.000	38.69	13.28	35.28	45.17	61.86	74.00	12.14	Peak
2	11490.000	38.69	13.28	35.28	32.86	49.55	54.00	4.45	Average

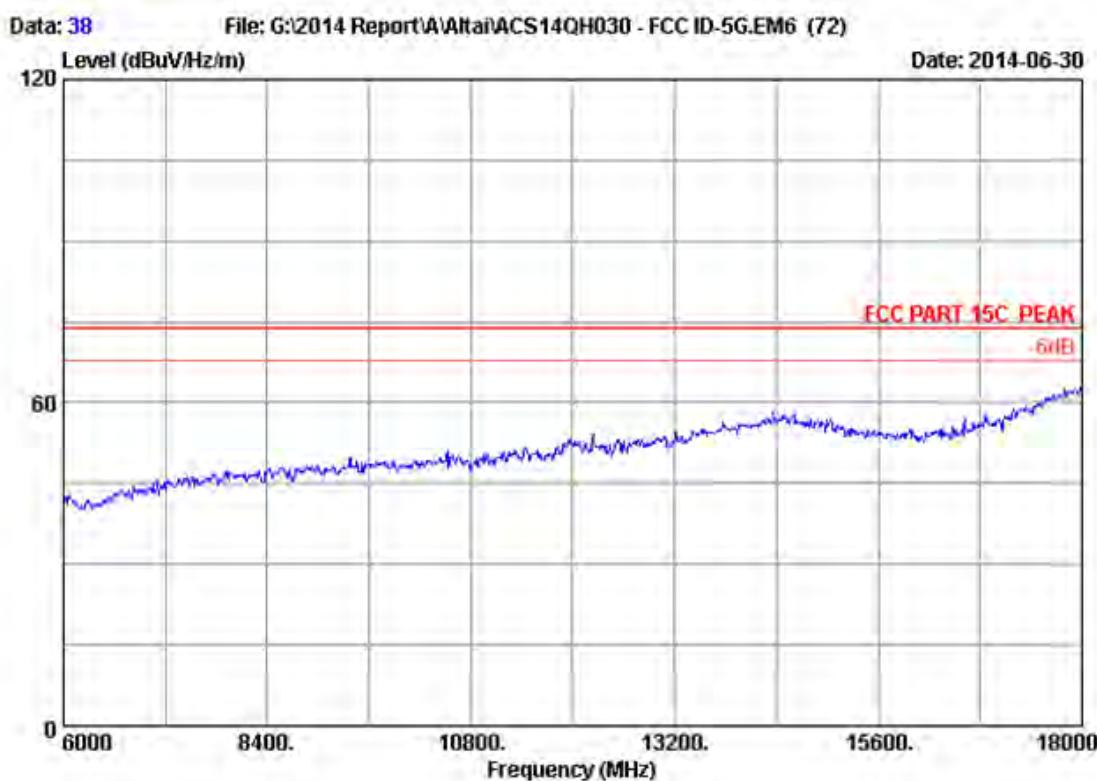
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



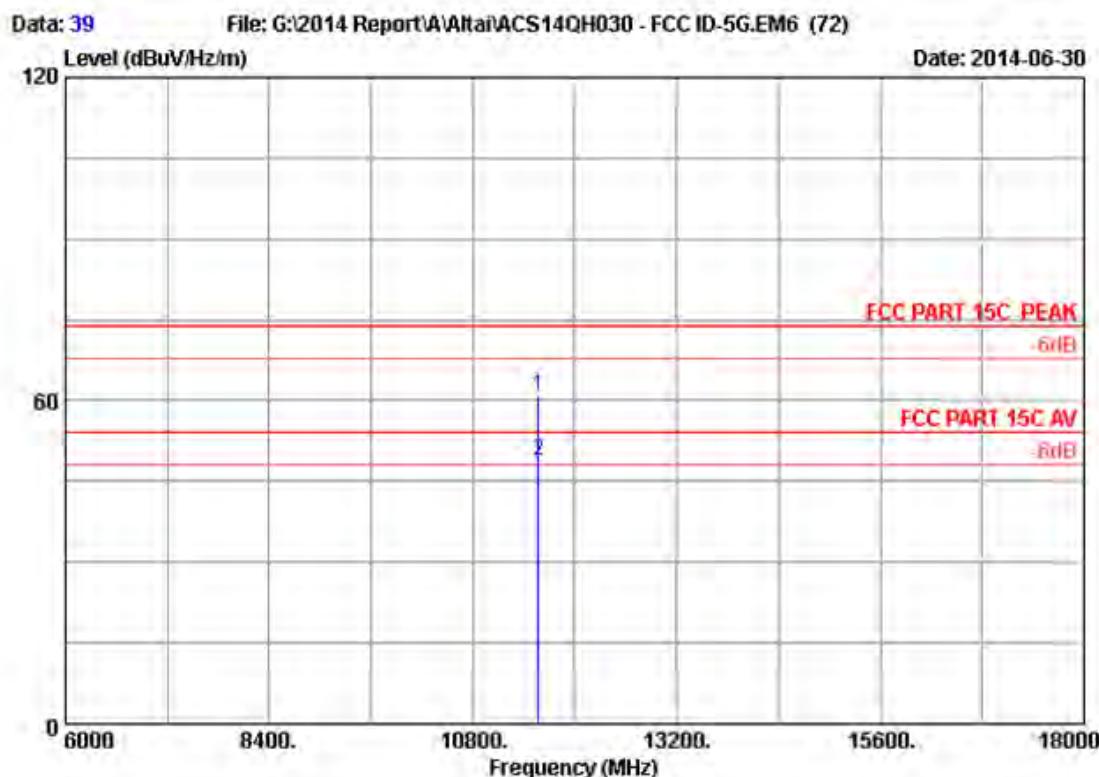
Site no. : 3m Chamber Data no. : 37
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5785MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	5785.000	34.11	9.59	35.70	101.57	109.57	74.00	-35.57 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. :	38
Dis. / Ant.	:	3m 2013 3115 (4580)	Ant. pol. :	HORIZONTAL
Limit	:	FCC PART 15C PEAK		
Env. / Ins.	:	24°C/56%	Engineer :	Leo-Li
EUT	:	Altai A2-Ei Dual-band WiFi Access Point		
Power Rating	:	DC 56V From POE Input AC 120V/60Hz		
Test Mode	:	IEEE802.11nHT20 5785MHz Tx		
M/N	:	WA2011N-E		



Site no. : 3m Chamber Data no. : 39
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5785MHz Tx
M/N : WA2011N-E

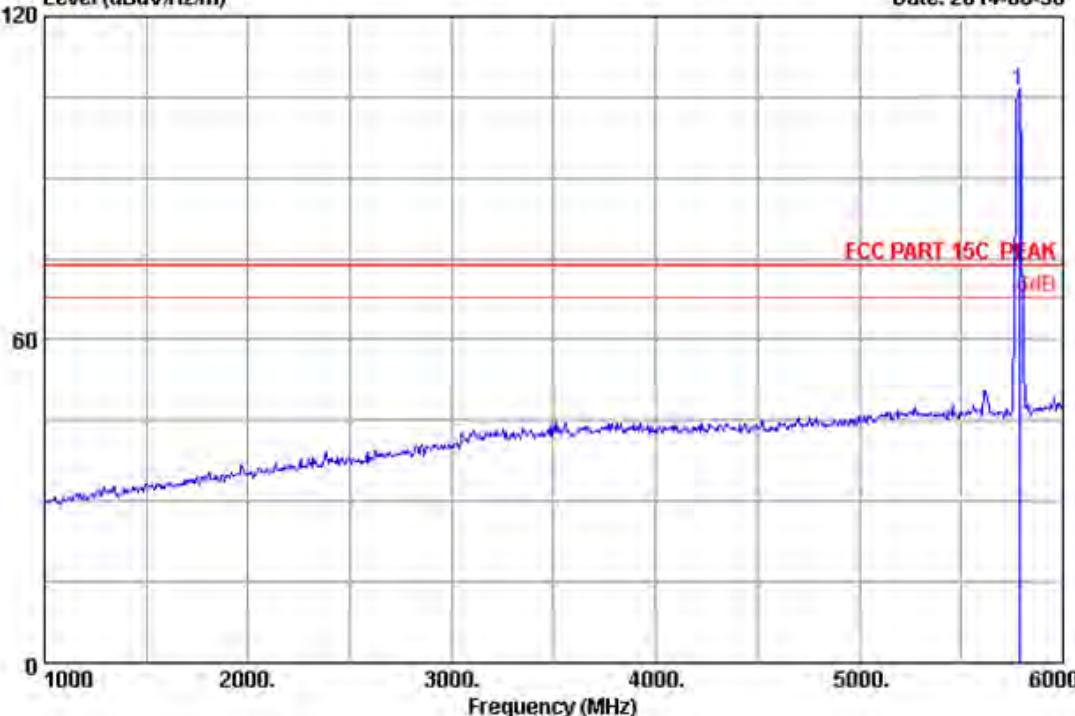
No.	Freq. (MHz)	Ant.	Cable	AMP	Emission				
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	11570.000	38.80	13.32	35.26	44.10	60.96	74.00	13.04	Peak
2	11570.000	38.80	13.32	35.26	32.05	48.91	54.00	5.09	Average

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: 40 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-5G.EM6 (72)

Level (dBuV/Hz/m)

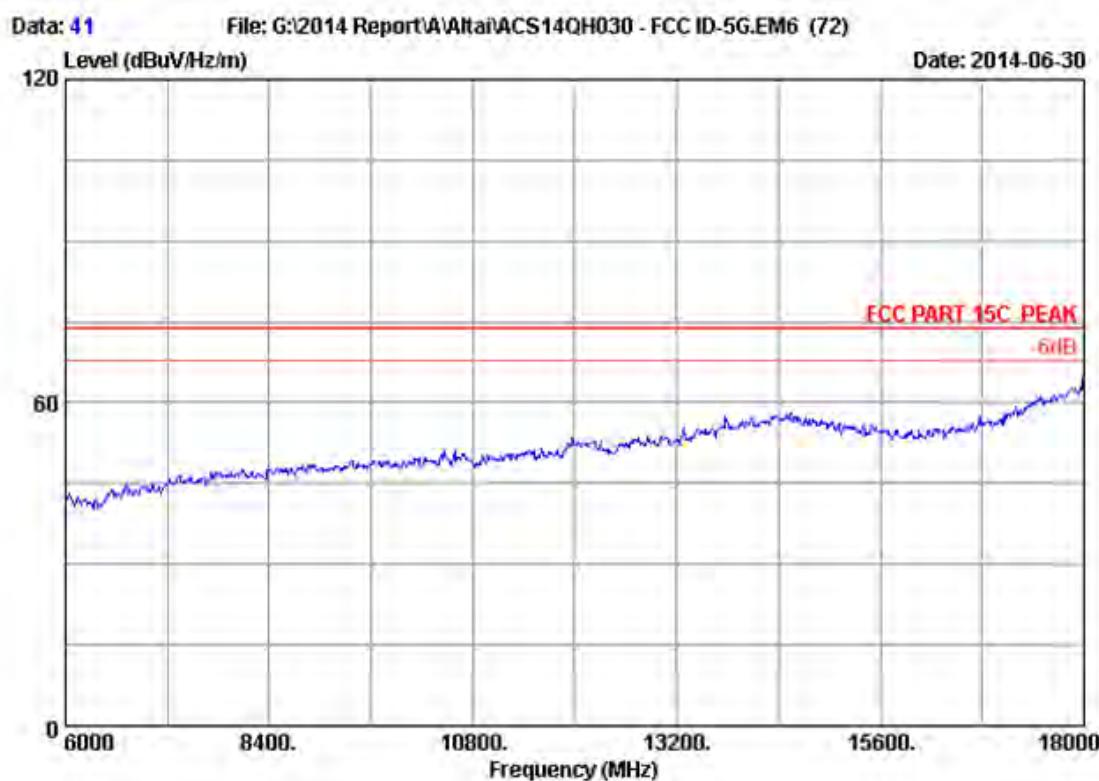
Date: 2014-06-30



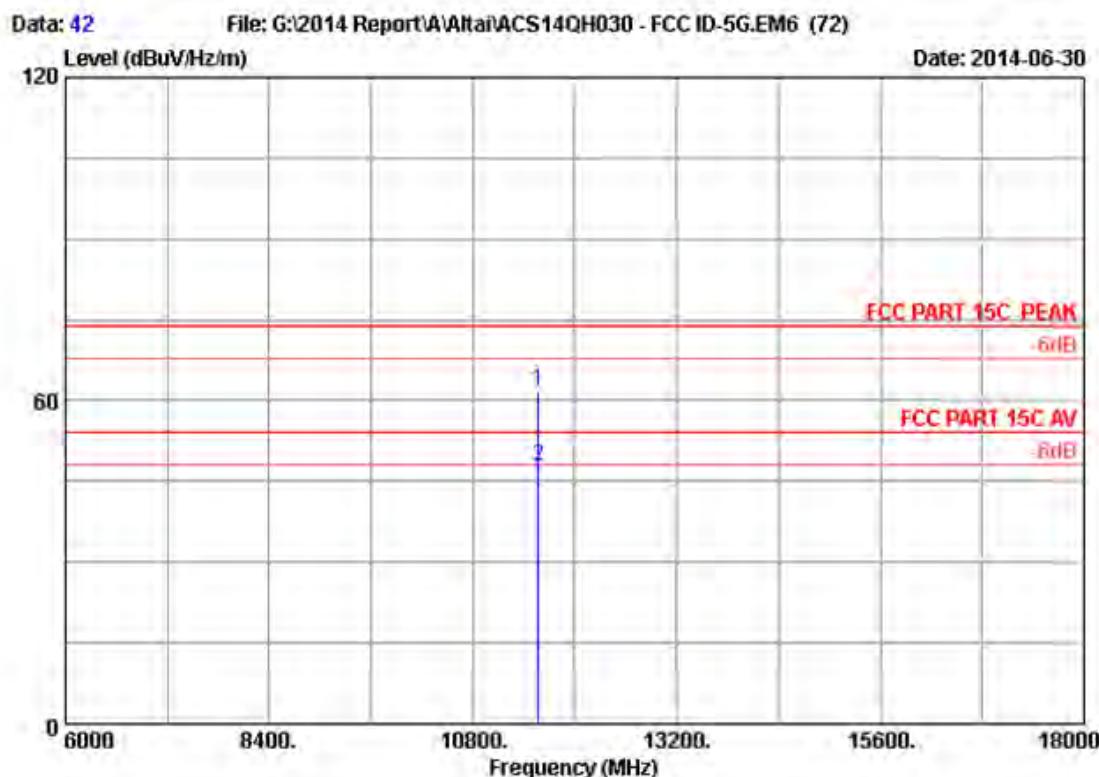
Site no. : 3m Chamber Data no. : 40
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5785MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	5785.000	34.11	9.59	35.70	98.15	106.15	74.00	-32.15 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. : 41
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5785MHz Tx
M/N : WA2011N-E



Site no. : 3m Chamber Data no. : 42
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5785MHz Tx
M/N : WA2011N-E

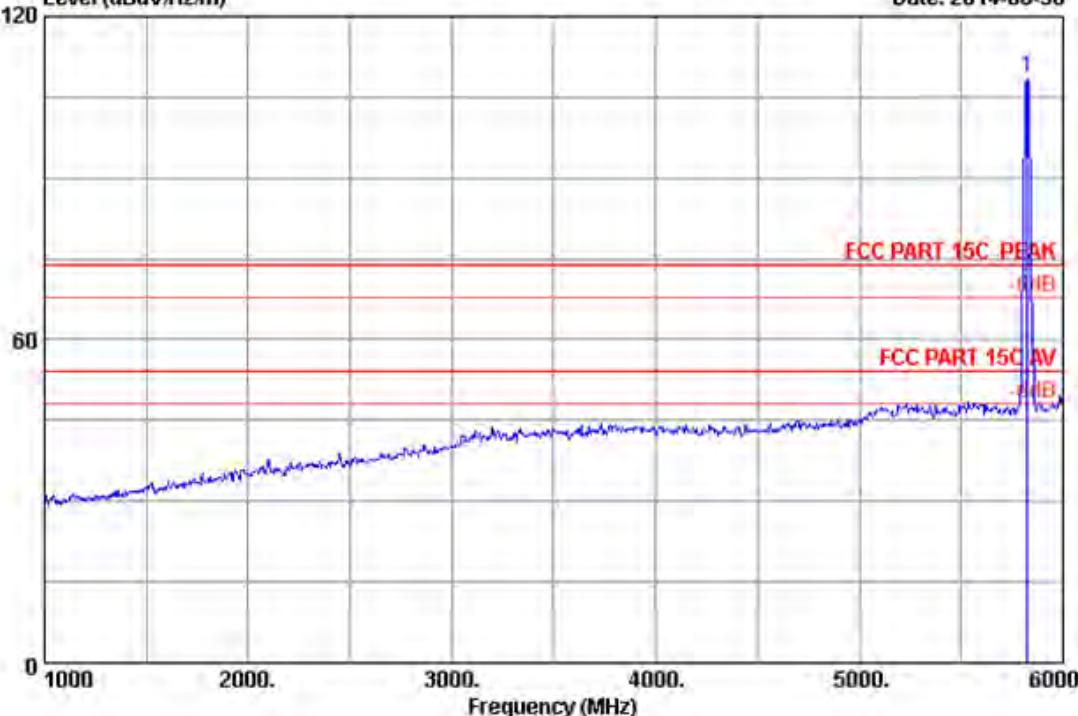
No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	11570.000	38.80	13.32	35.26	44.84	61.70	74.00	12.30
2	11570.000	38.80	13.32	35.26	31.07	47.93	54.00	6.07

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: 43 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-5G.EM6 (72)

Level (dBuV/Hz/m)

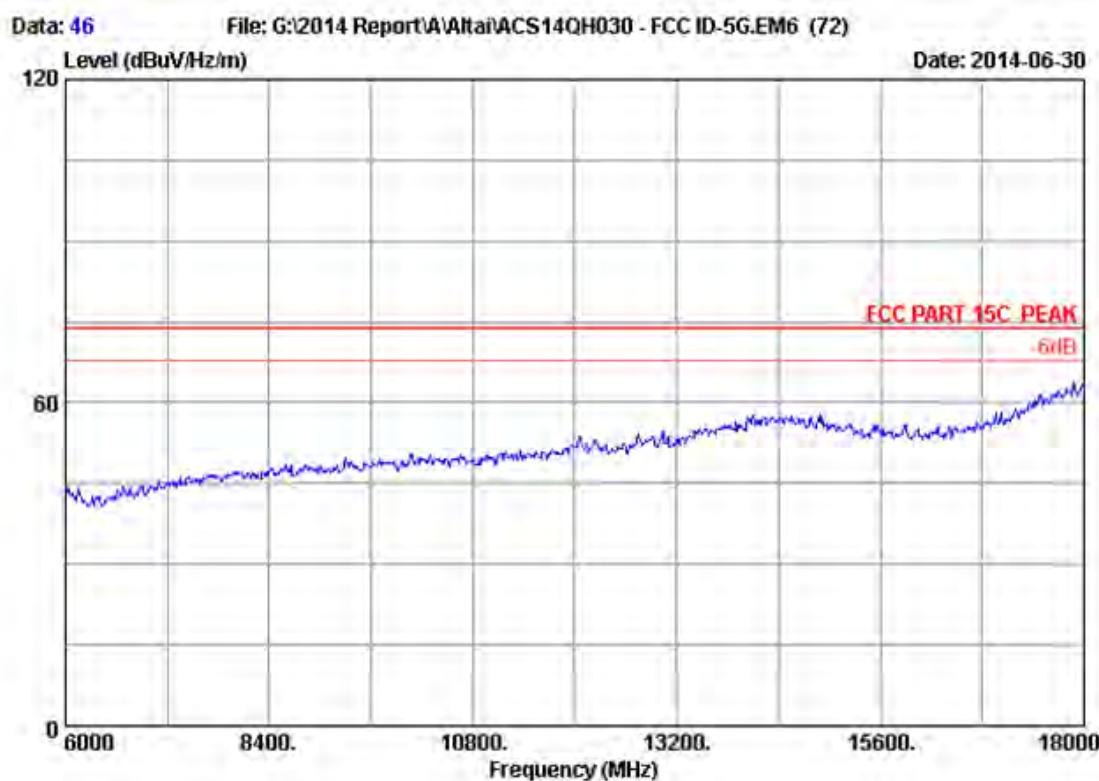
Date: 2014-06-30



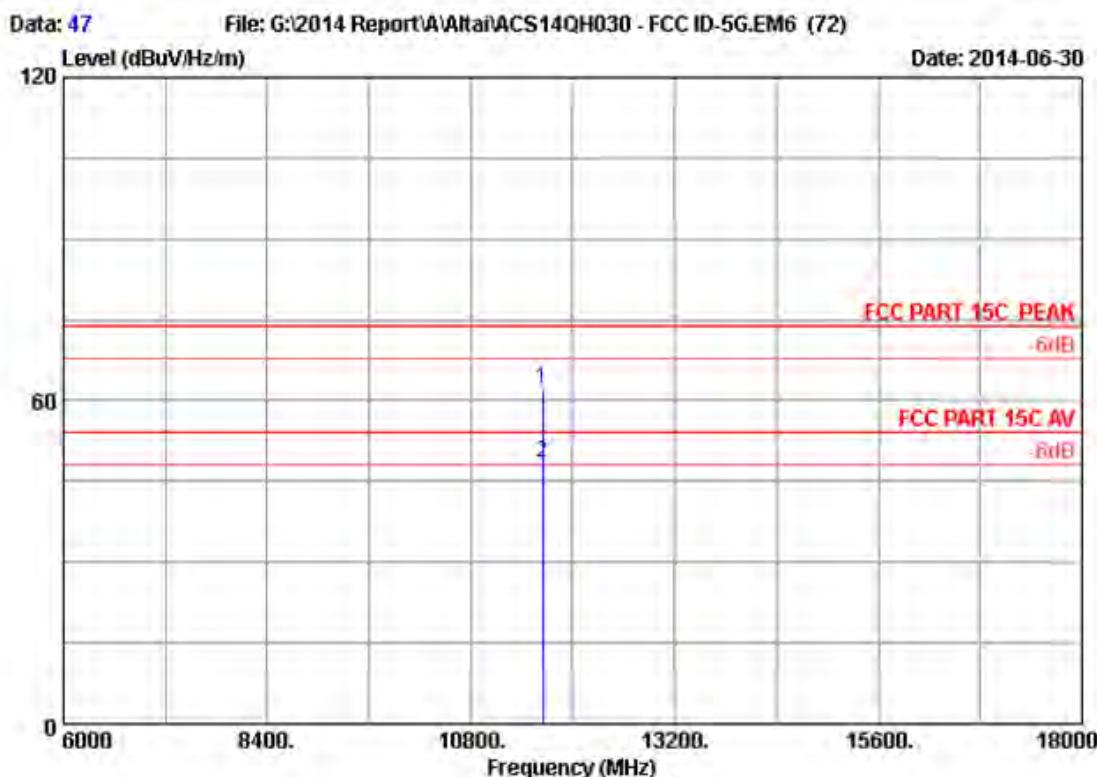
Site no. : 3m Chamber Data no. : 43
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5825MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	5825.000	34.13	9.63	35.70	100.56	108.62	74.00	-34.62 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.



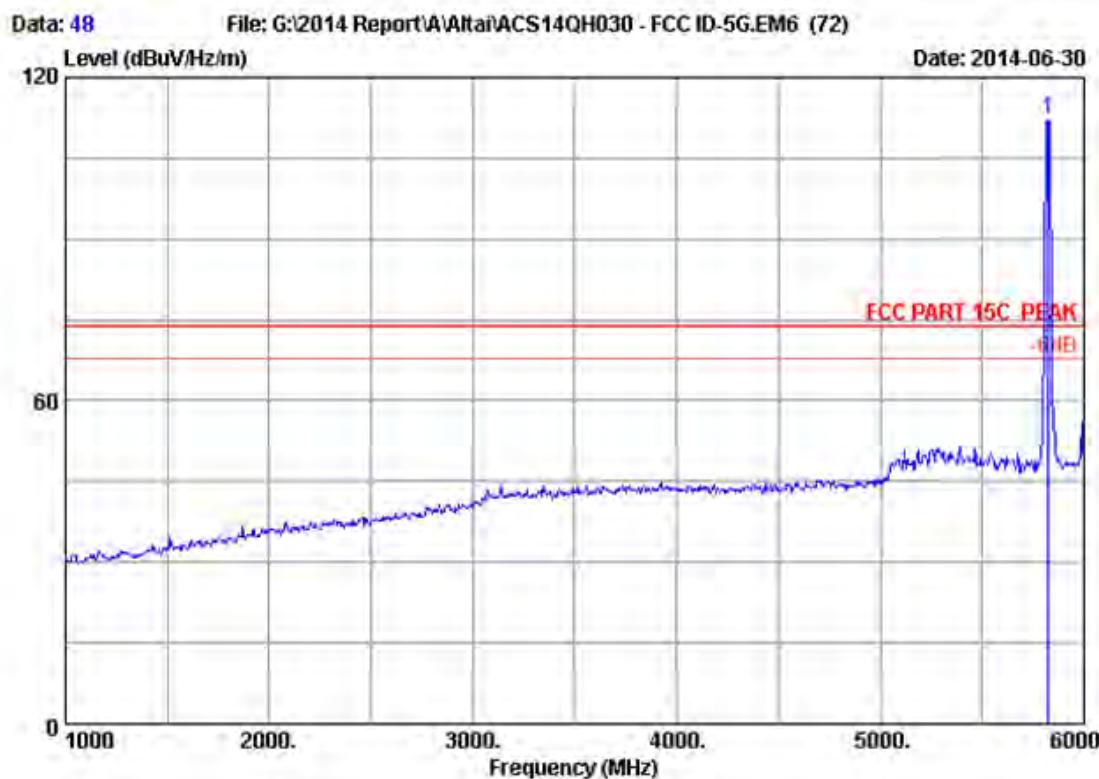
Site no. : 3m Chamber Data no. : 46
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5825MHz Tx
M/N : WA2011N-E



Site no. : 3m Chamber Data no. : 47
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5825MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	11650.000	38.91	13.37	35.25	45.06	62.09	74.00	11.91 Peak
2	11650.000	38.91	13.37	35.25	31.46	48.49	54.00	5.51 Average

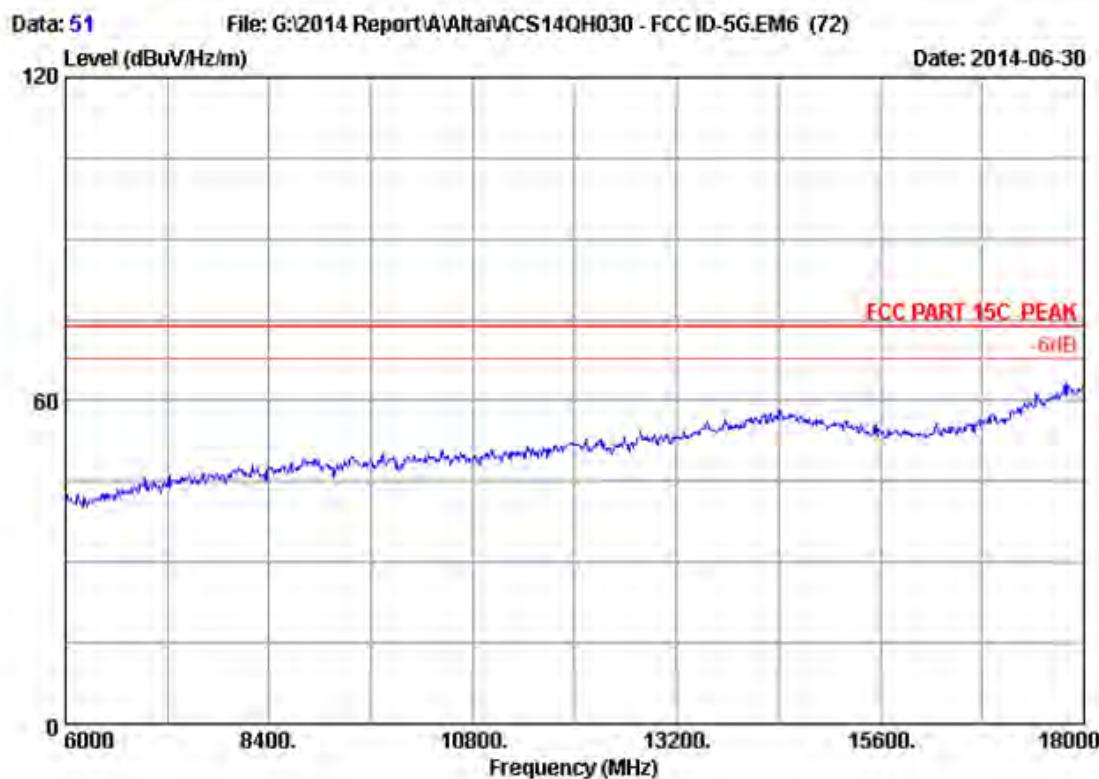
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



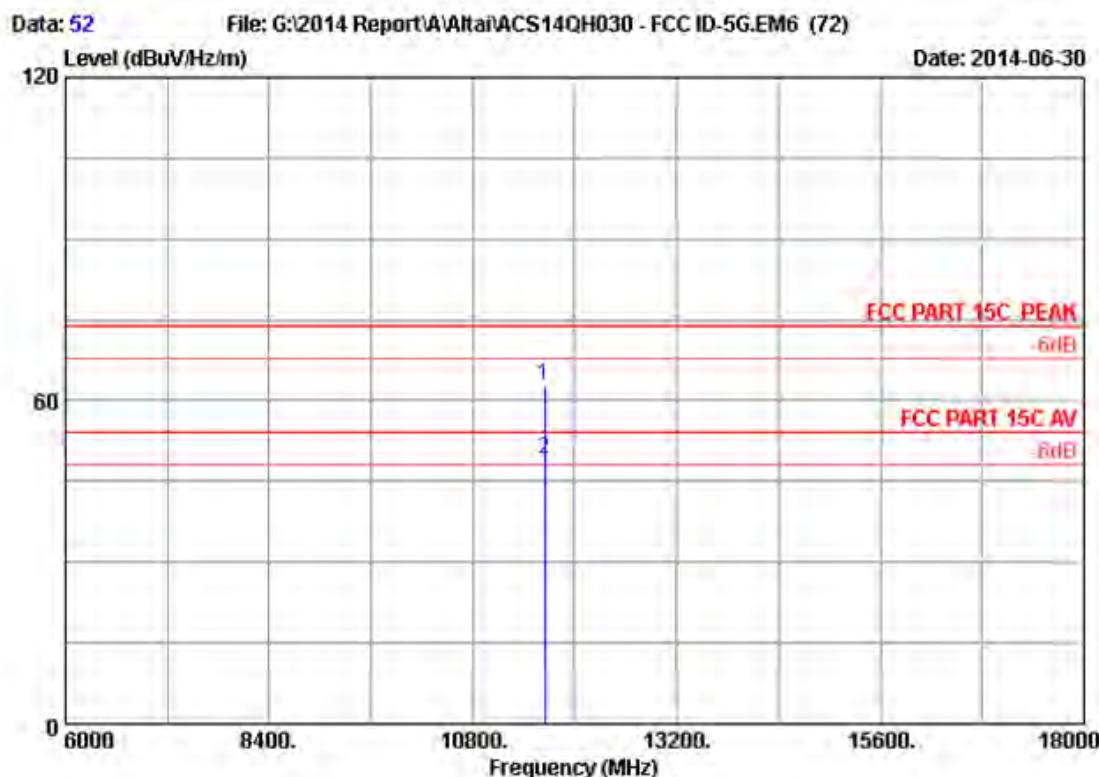
Site no. : 3m Chamber Data no. : 48
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5825MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	5825.000	34.13	9.63	35.70	104.16	112.22	74.00	-38.32 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.



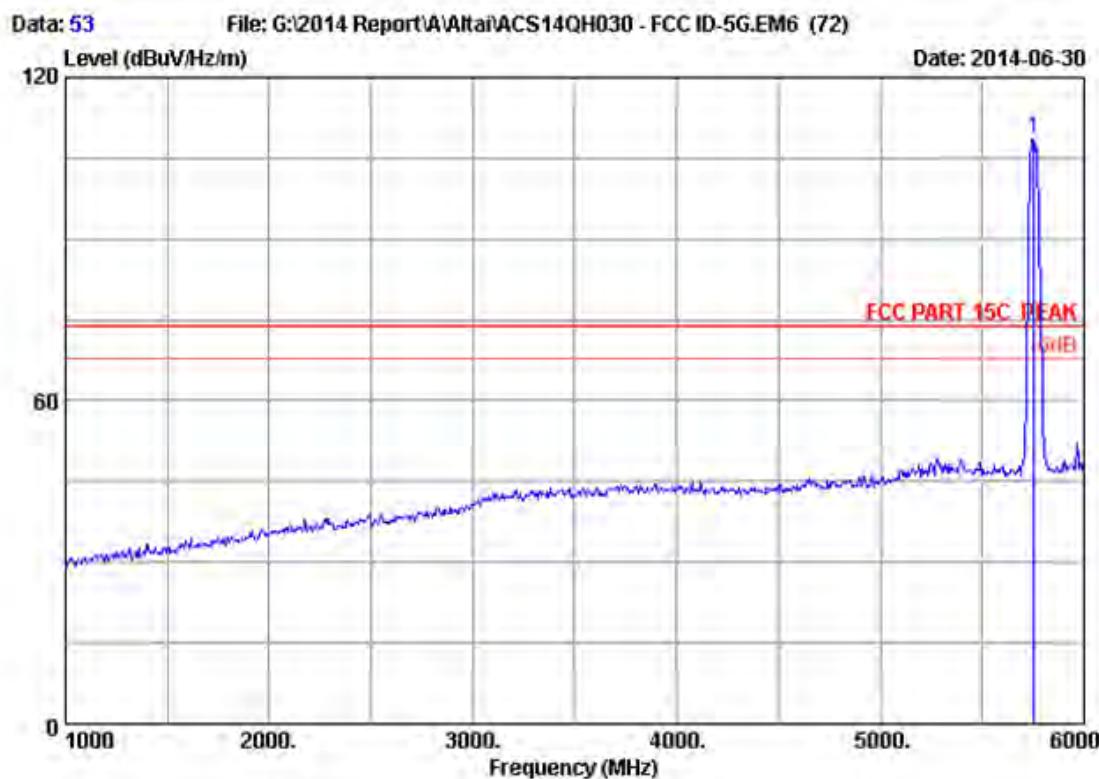
Site no. : 3m Chamber Data no. : 51
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5825MHz Tx
M/N : WA2011N-E



Site no. : 3m Chamber Data no. : 52
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 5825MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	11650.000	38.91	13.37	35.25	45.85	62.88	74.00	11.12 Peak
2	11650.000	38.91	13.37	35.25	31.96	48.99	54.00	5.01 Average

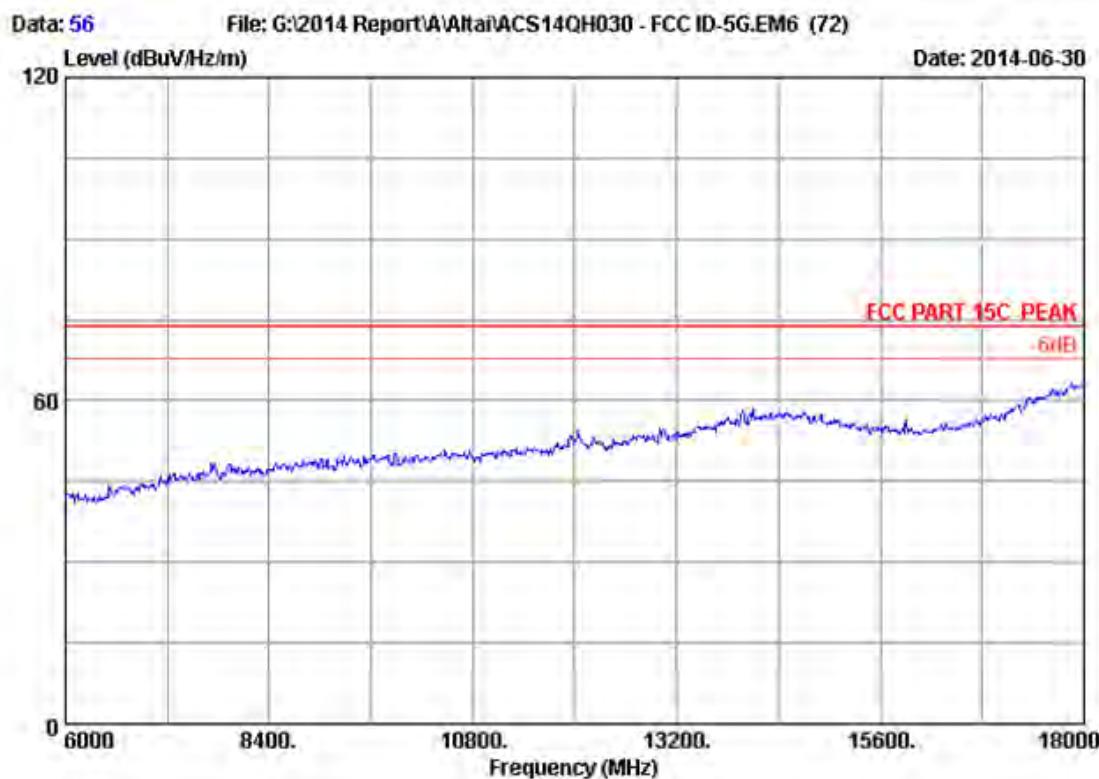
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



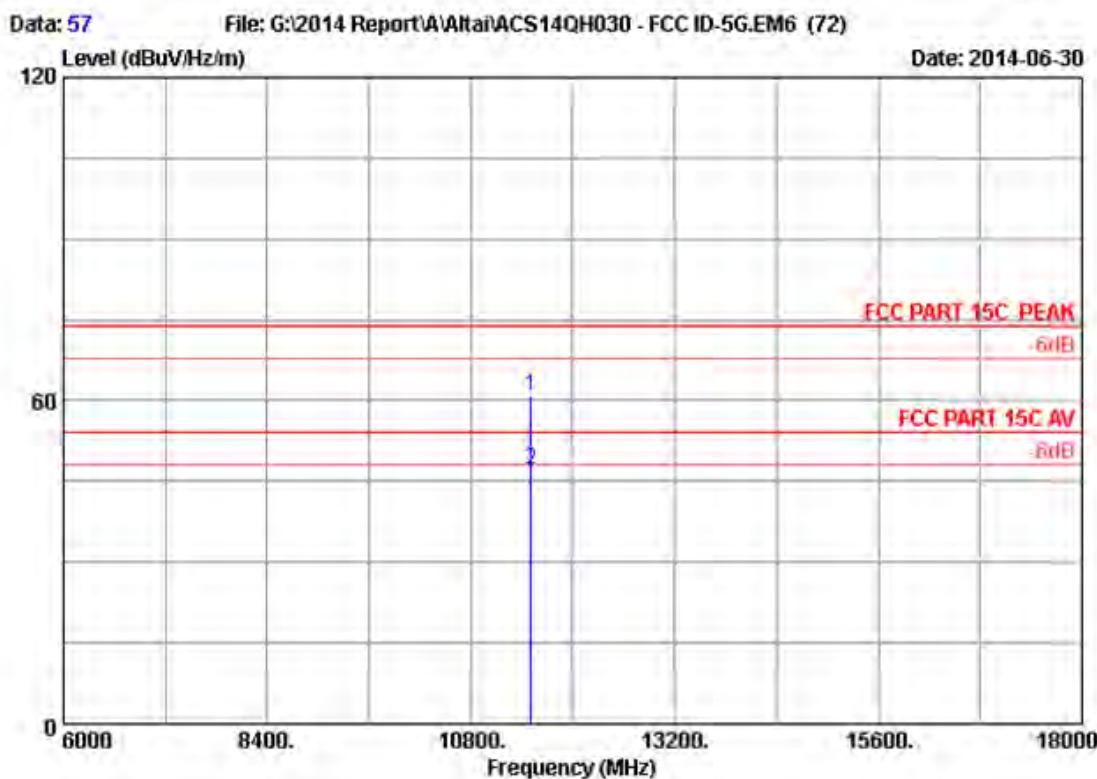
Site no. : 3m Chamber Data no. : 53
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5755MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	5755.000	34.10	9.56	35.70	100.65	108.61	74.00	-34.61 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.



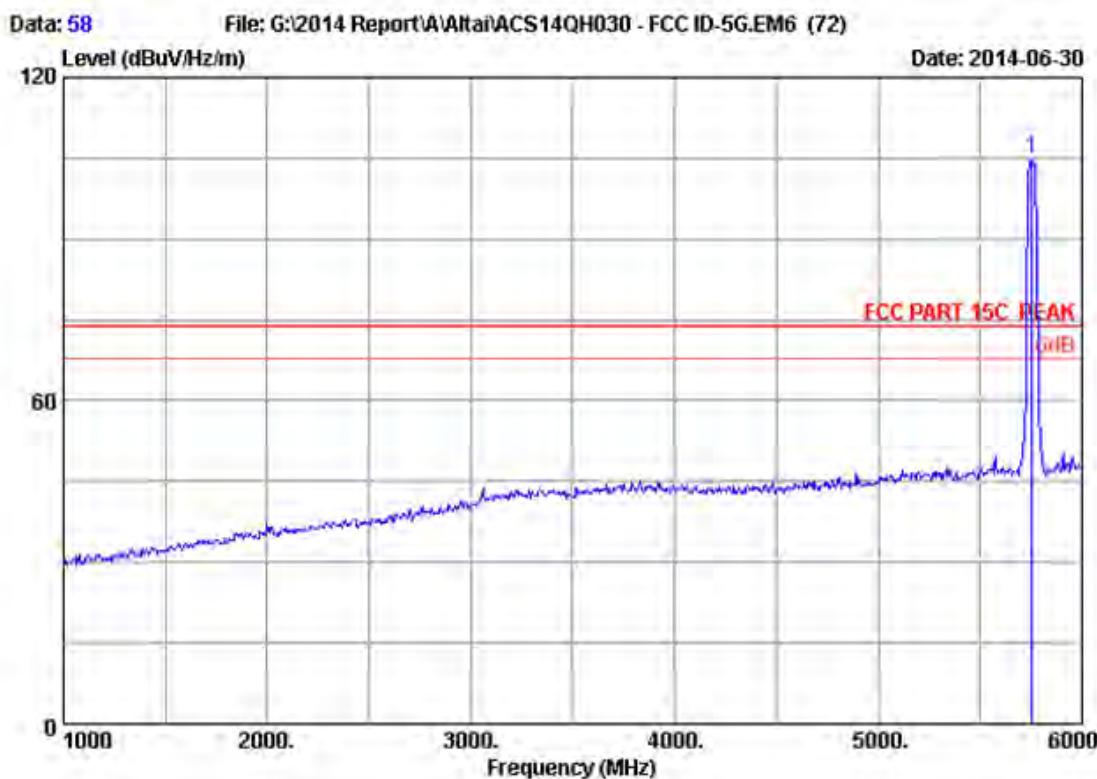
Site no.	:	3m Chamber	Data no. :	56
Dis. / Ant.	:	3m 2013 3115 (4580)	Ant. pol. :	HORIZONTAL
Limit	:	FCC PART 15C PEAK		
Env. / Ins.	:	24°C/56%	Engineer :	Leo-Li
EUT	:	Altai A2-Ei Dual-band WiFi Access Point		
Power Rating	:	DC 56V From POE Input AC 120V/60Hz		
Test Mode	:	IEEE802.11nHT40 5755MHz Tx		
M/N	:	WA2011N-E		



Site no. : 3m Chamber Data no. : 57
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5755MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	11510.000	38.71	13.29	35.27	44.09	60.82	74.00	13.18 Peak
2	11510.000	38.71	13.29	35.27	30.42	47.15	54.00	6.85 Average

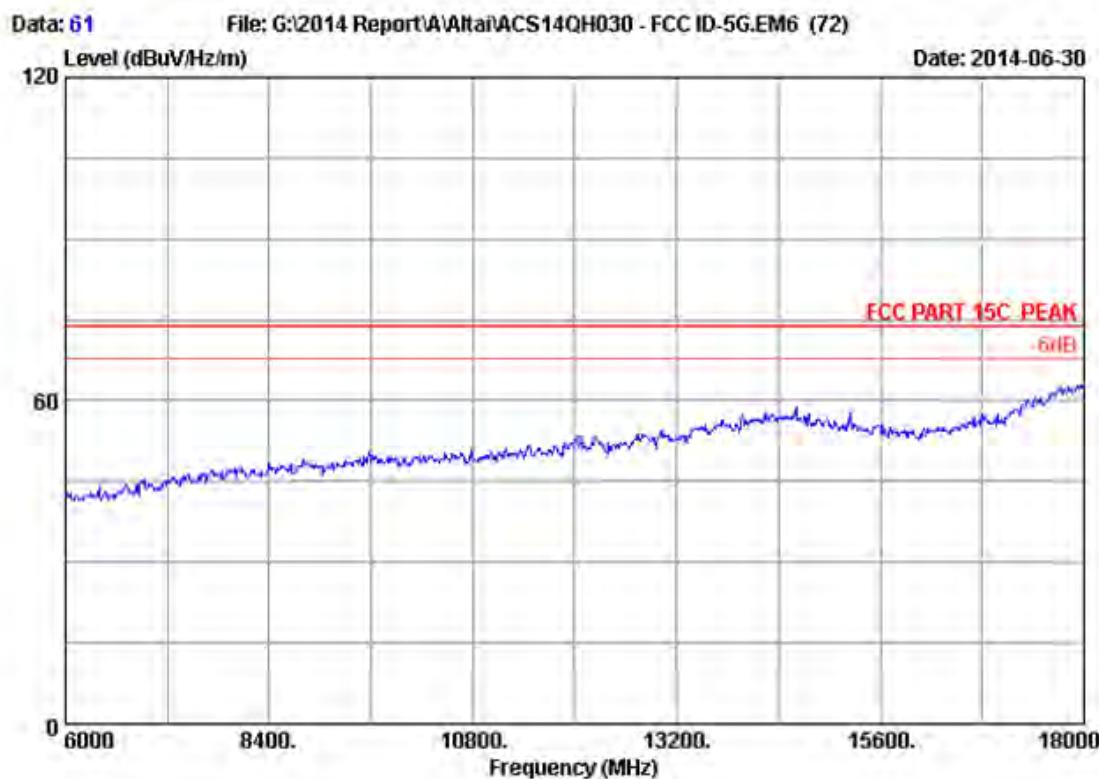
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



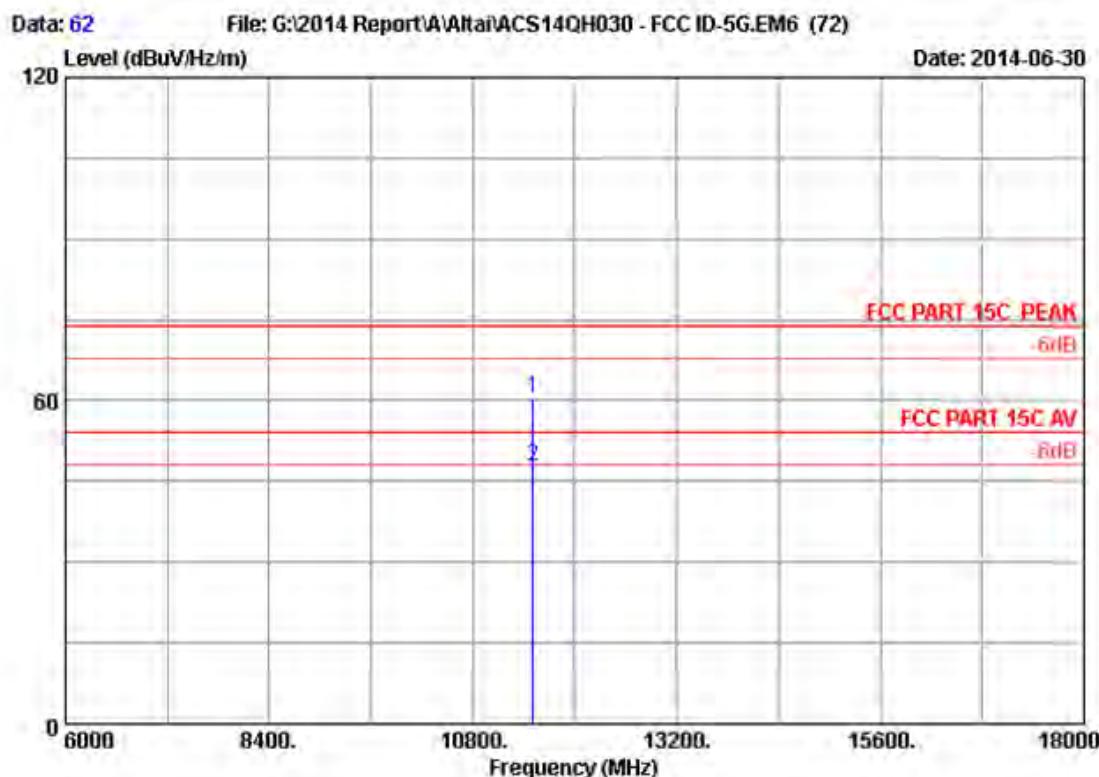
Site no. : 3m Chamber Data no. : 58
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5755MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	5755.000	34.10	9.56	35.70	96.86	104.82	74.00	-30.82 Peak

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



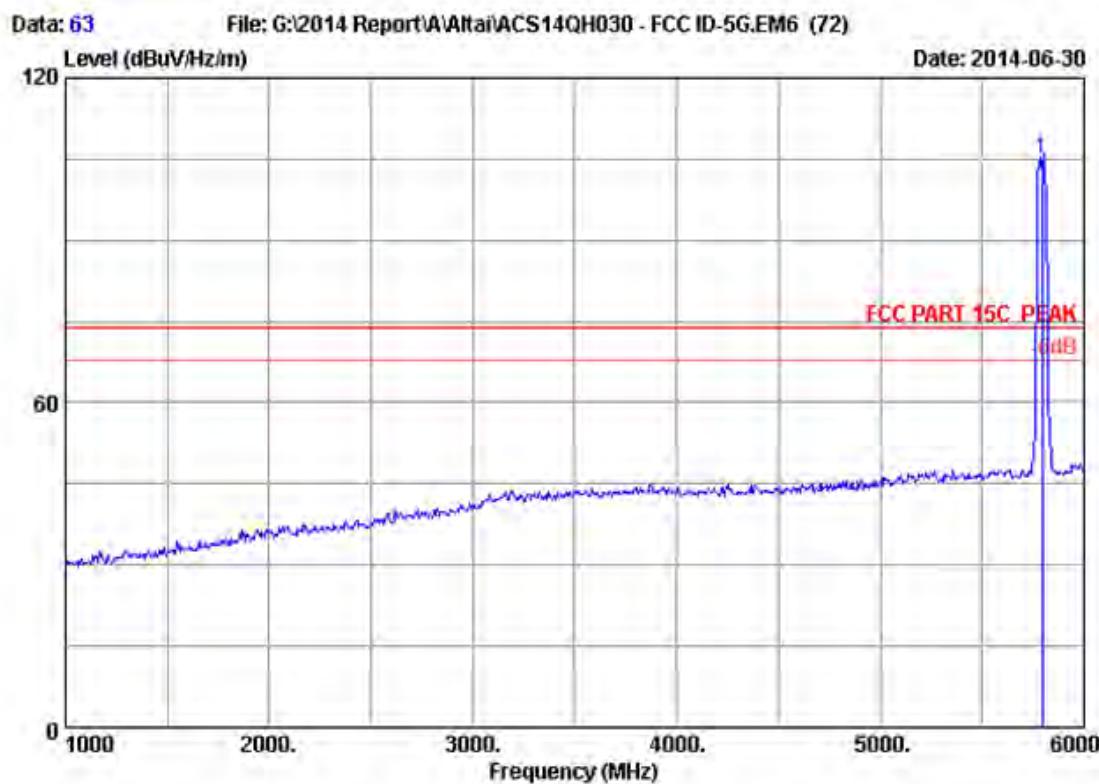
Site no.	:	3m Chamber	Data no. :	61
Dis. / Ant.	:	3m 2013 3115 (4580)	Ant. pol. :	VERTICAL
Limit	:	FCC PART 15C PEAK		
Env. / Ins.	:	24°C/56%	Engineer :	Leo-Li
EUT	:	Altai A2-Ei Dual-band WiFi Access Point		
Power Rating	:	DC 56V From POE Input AC 120V/60Hz		
Test Mode	:	IEEE802.11nHT40 5755MHz Tx		
M/N	:	WA2011N-E		



Site no. : 3m Chamber Data no. : 62
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5755MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	11510.000	38.71	13.29	35.27	43.87	60.60	74.00	13.40
2	11510.000	38.71	13.29	35.27	31.09	47.82	54.00	6.18

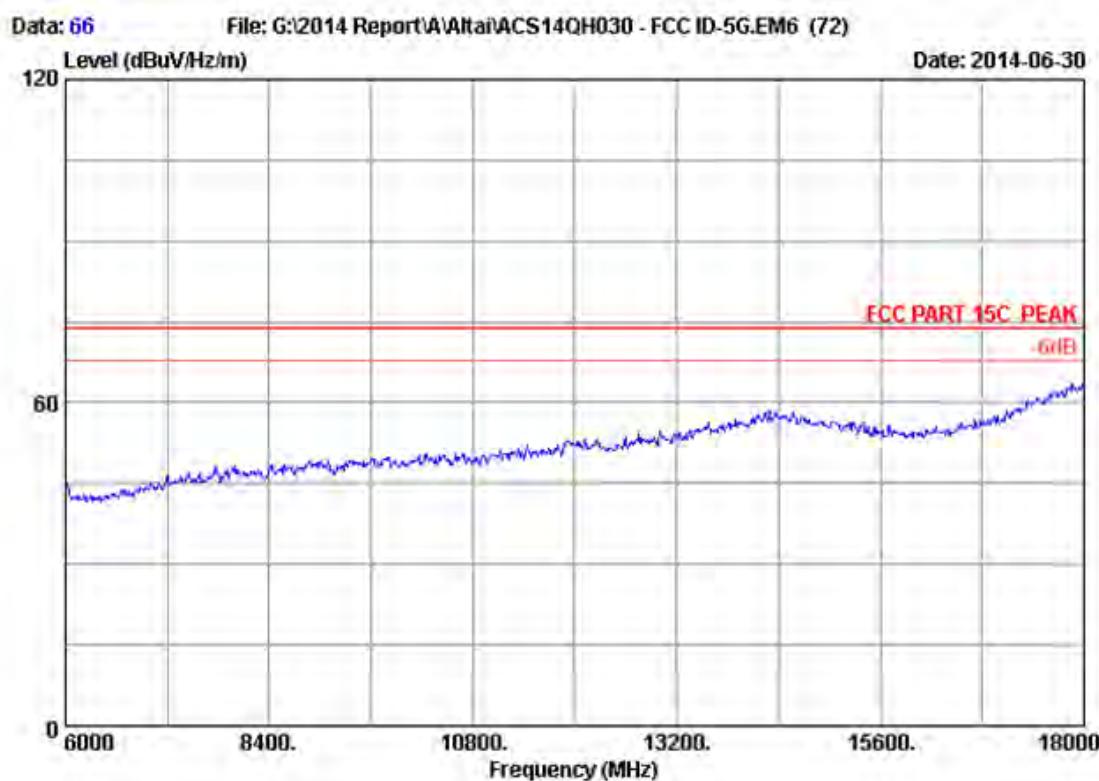
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



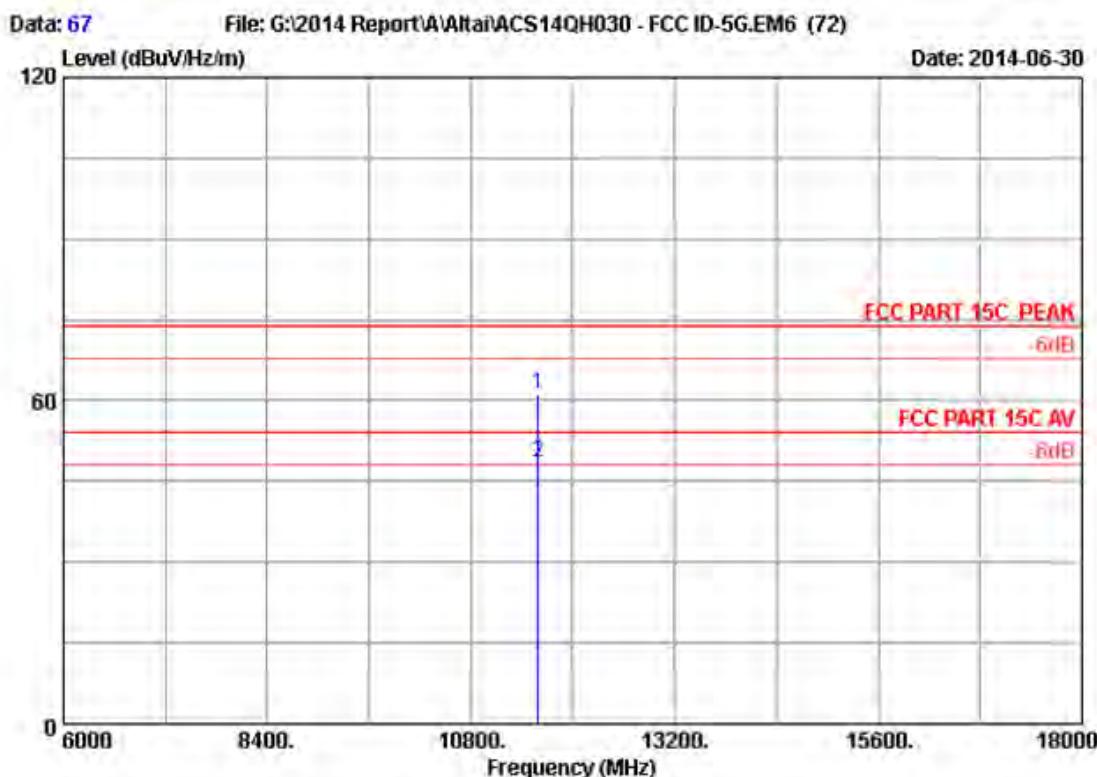
Site no. : 3m Chamber Data no. : 63
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5795MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant. Factor	Cable Loss	AMP factor	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5795.000	34.12	9.60	35.70	97.07	105.09	74.00	-31.09	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. :	66
Dis. / Ant.	:	3m 2013 3115 (4580)	Ant. pol. :	VERTICAL
Limit	:	FCC PART 15C PEAK		
Env. / Ins.	:	24°C/56%	Engineer :	Leo-Li
EUT	:	Altai A2-Ei Dual-band WiFi Access Point		
Power Rating	:	DC 56V From POE Input AC 120V/60Hz		
Test Mode	:	IEEE802.11nHT40 5795MHz Tx		
M/N	:	WA2011N-E		



Site no. : 3m Chamber Data no. : 67
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5795MHz Tx
M/N : WA2011N-E

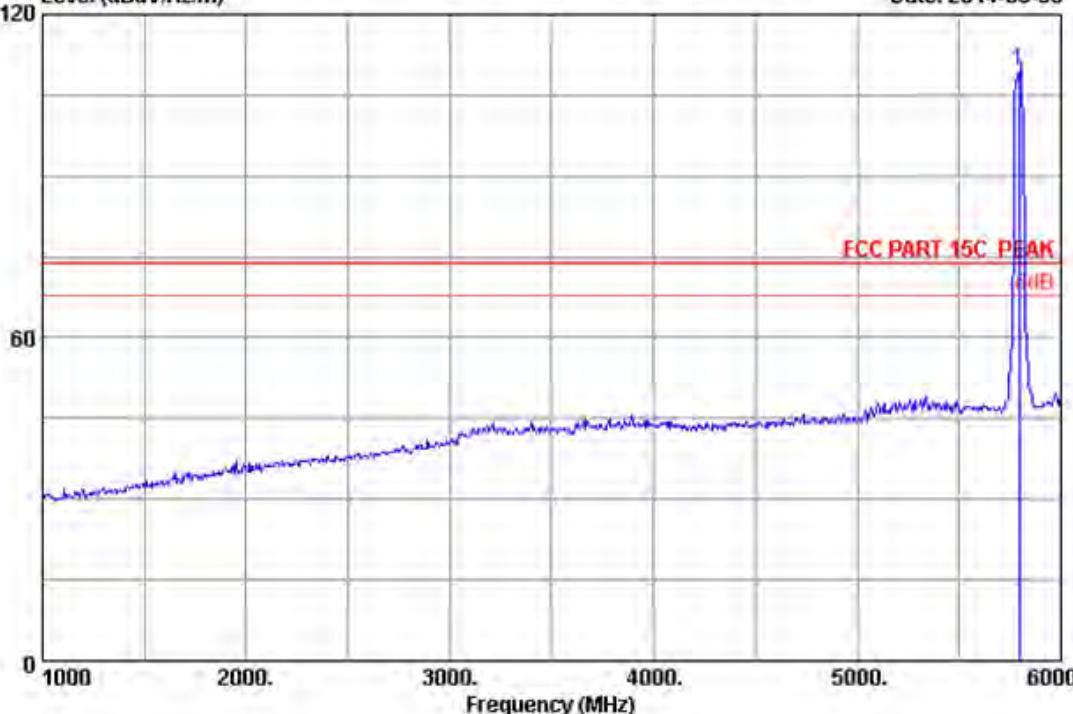
No.	Freq. (MHz)	Ant.	Cable	AMP	Emission				
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	11590.000	38.83	13.34	35.26	44.16	61.07	74.00	12.93	Peak
2	11590.000	38.83	13.34	35.26	31.47	48.38	54.00	5.62	Average

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

Data: 68 File: G:\2014 Report\A\Altai\ACS14QH030 - FCC ID-5G.EM6 (72)

Level (dBuV/Hz/m)

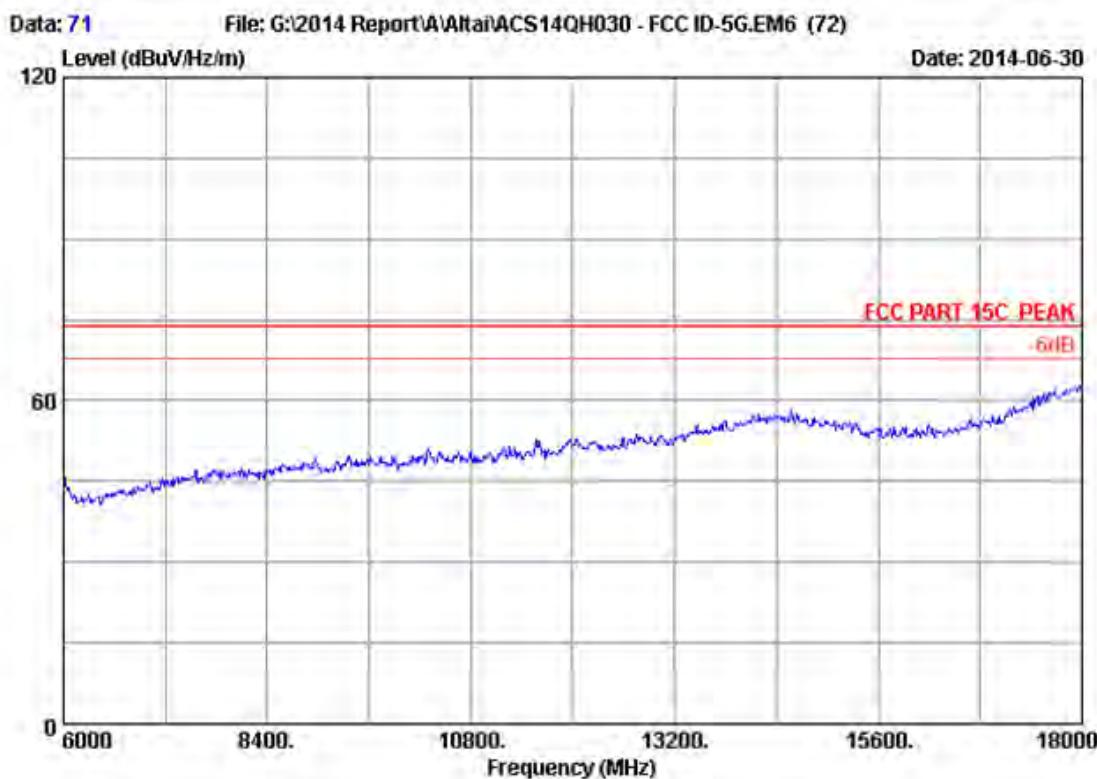
Date: 2014-06-30



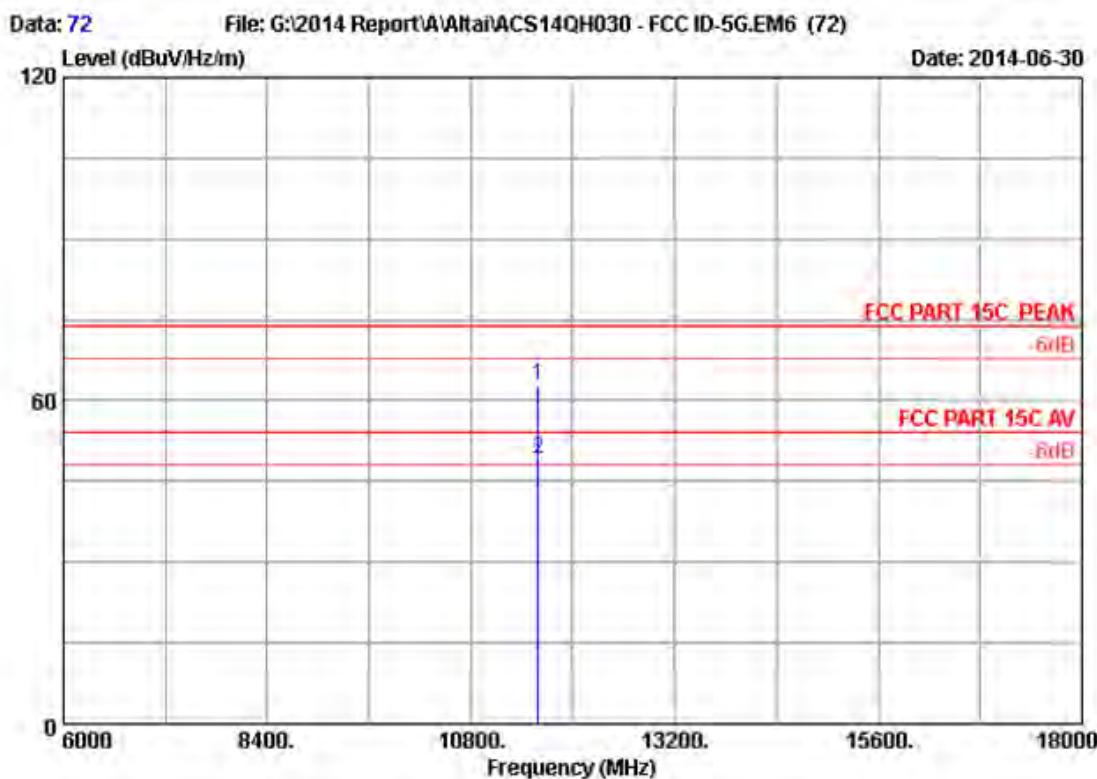
Site no. : 3m Chamber Data no. : 68
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5795MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	5795.000	34.12	9.60	35.70	101.74	109.76	74.00	-35.76 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 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5795MHz Tx
M/N : WA2011N-E



Site no. : 3m Chamber Data no. : 72
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Altai A2-Ei Dual-band WiFi Access Point
Power Rating : DC 56V From POE Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5795MHz Tx
M/N : WA2011N-E

No.	Freq. (MHz)	Ant.	Cable	AMP	Emission			
		Factor (dB/m)	Loss (dB)	factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	11590.000	38.83	13.34	35.26	45.94	62.85	74.00	11.15
2	11590.000	38.83	13.34	35.26	32.07	48.98	54.00	5.02

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.31, 13	1 Year
2.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr. 28,14	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	Apr. 28,14	1 Year

5.2. Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in 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 detected.

Note: The cable loss and attenuator loss were offset into spectrum analyzer as an amplitude offset.

The frequency range from 30MHz to 10th harmonic (40GHz) are checked. and no any emissions were found from 25GHz to 40 GHz, So the conducted spurious emissions from 25GHz to 40GHz were not record.

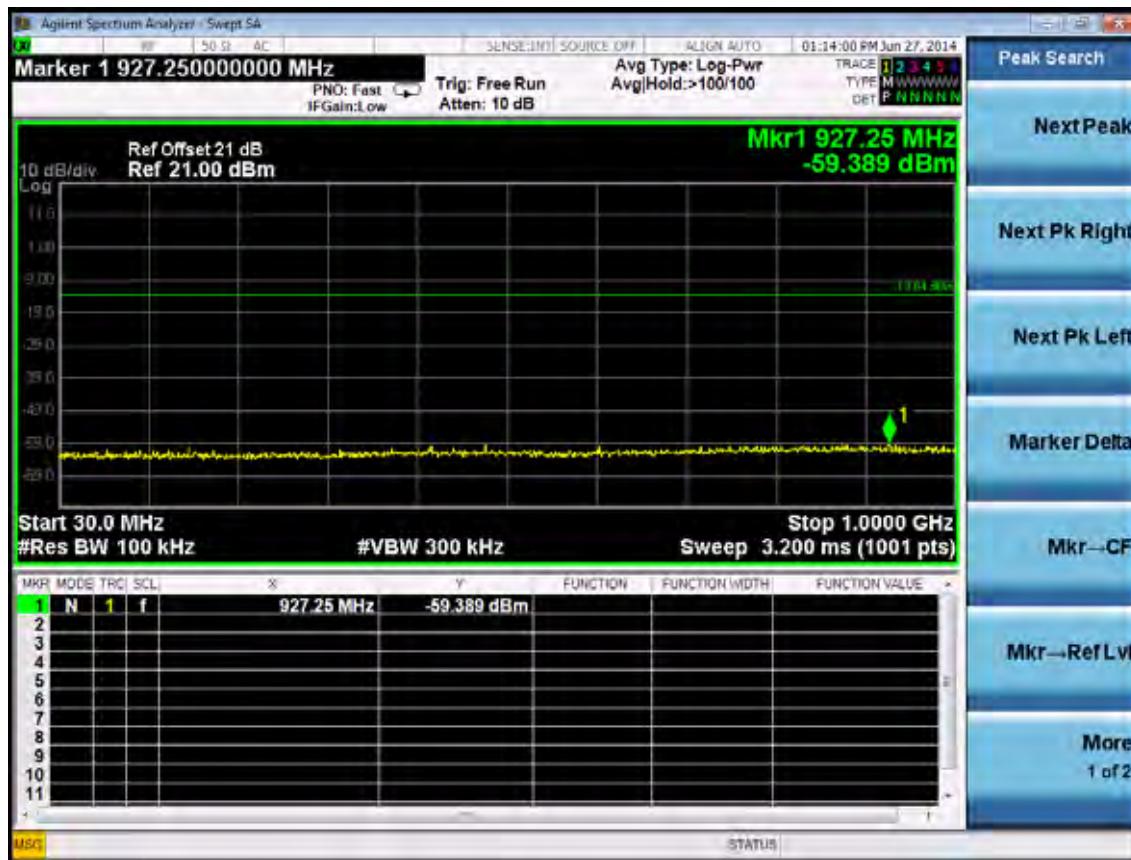
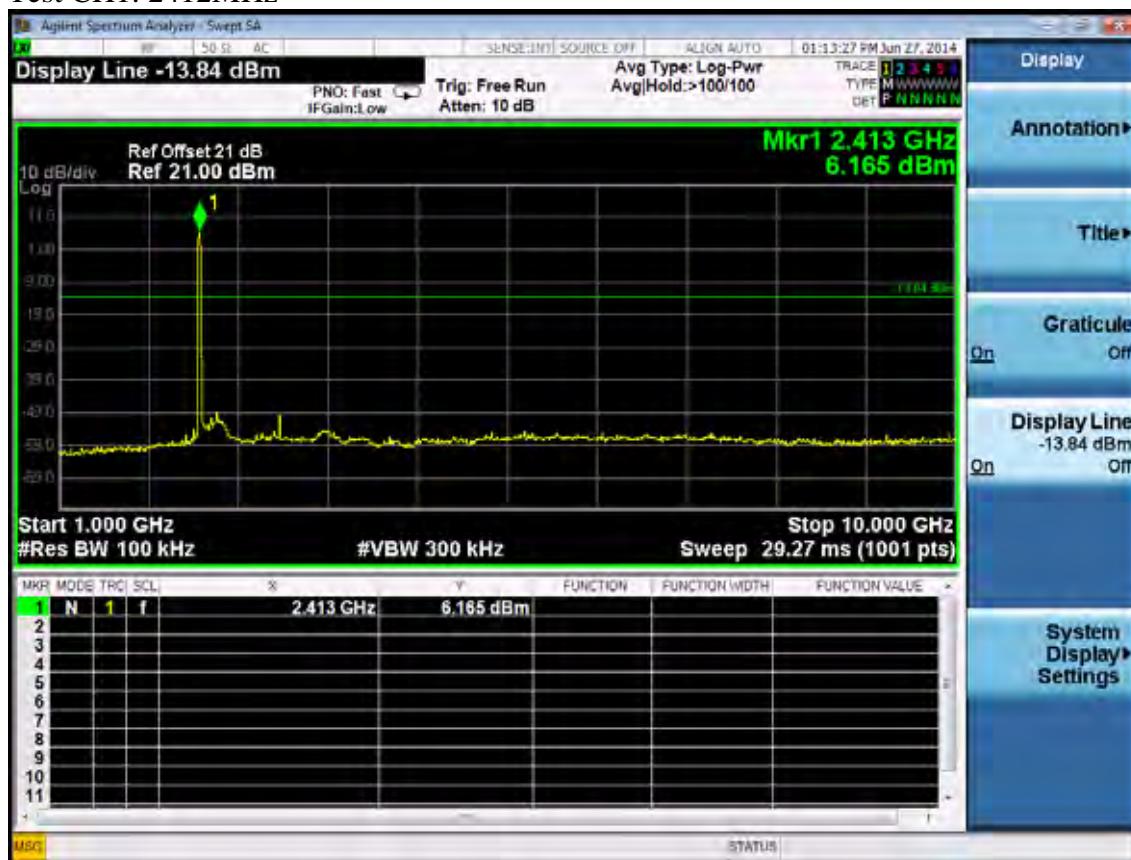
5.4. Test result

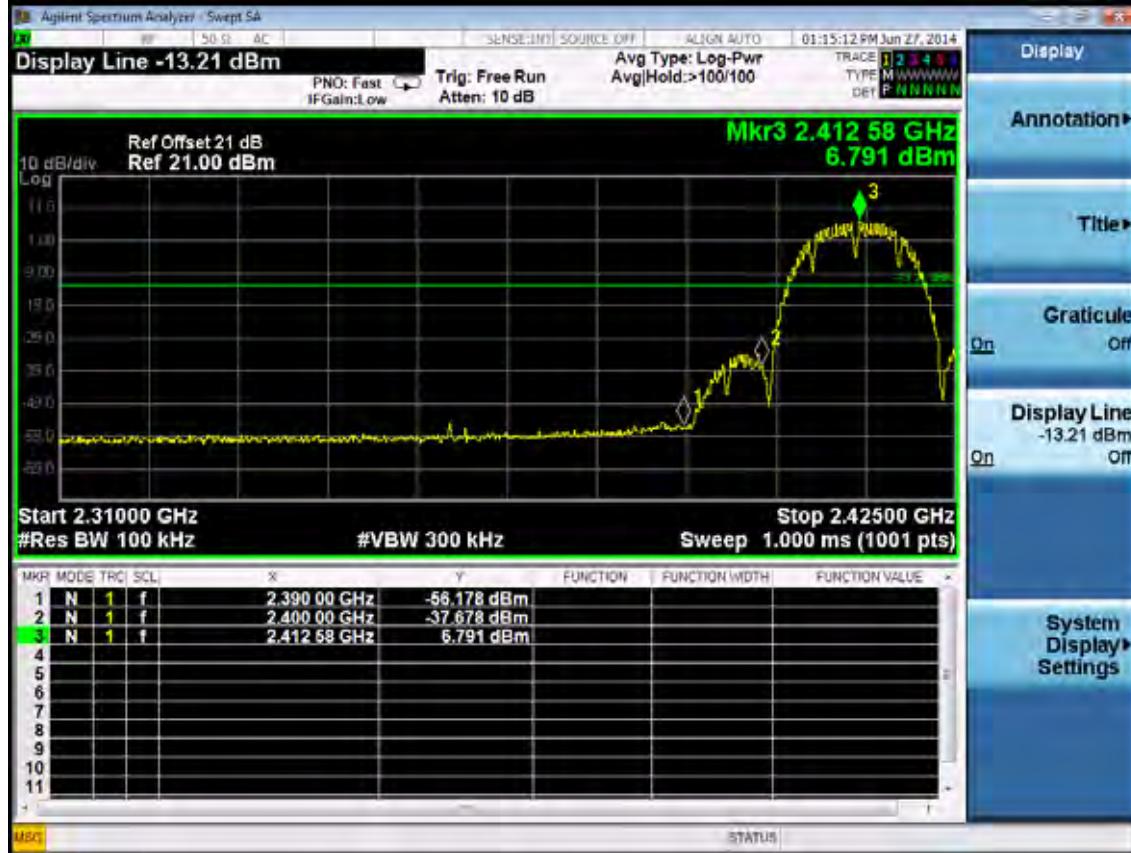
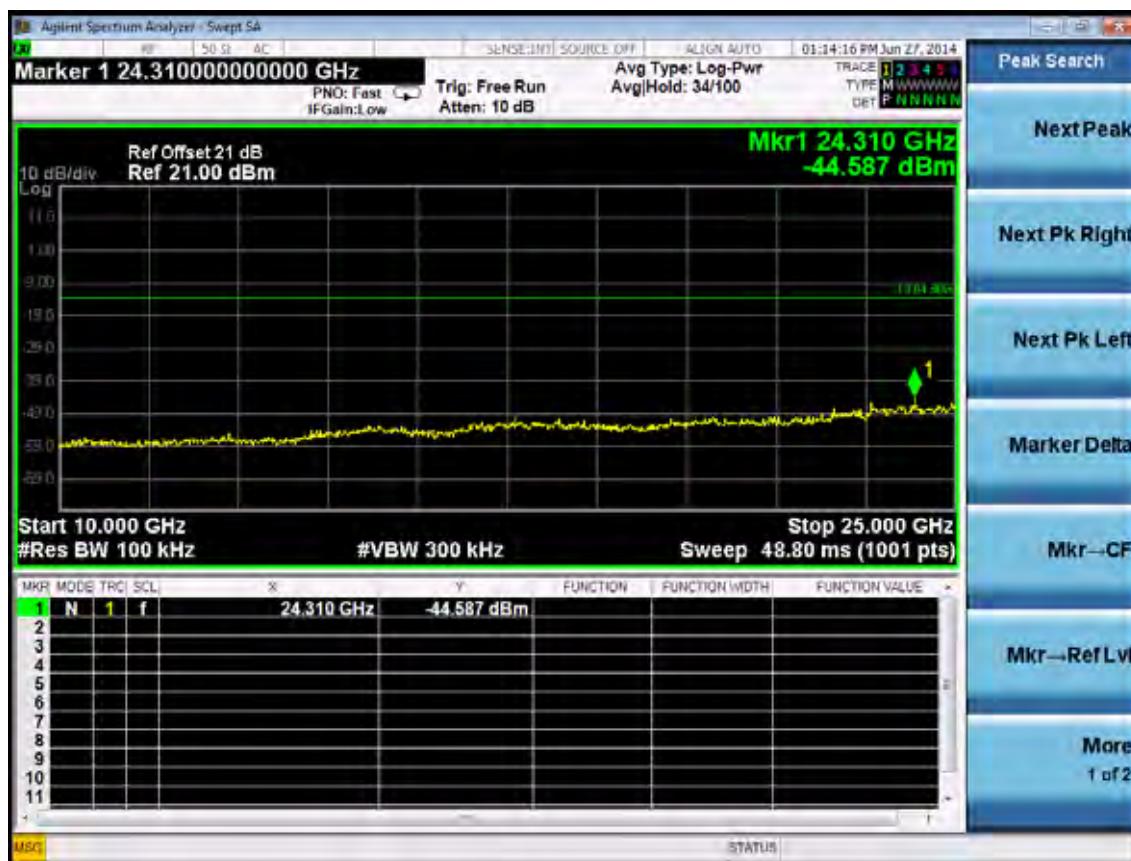
PASS (The testing data was attached in the next pages.)

2.4G:
Chain 1:

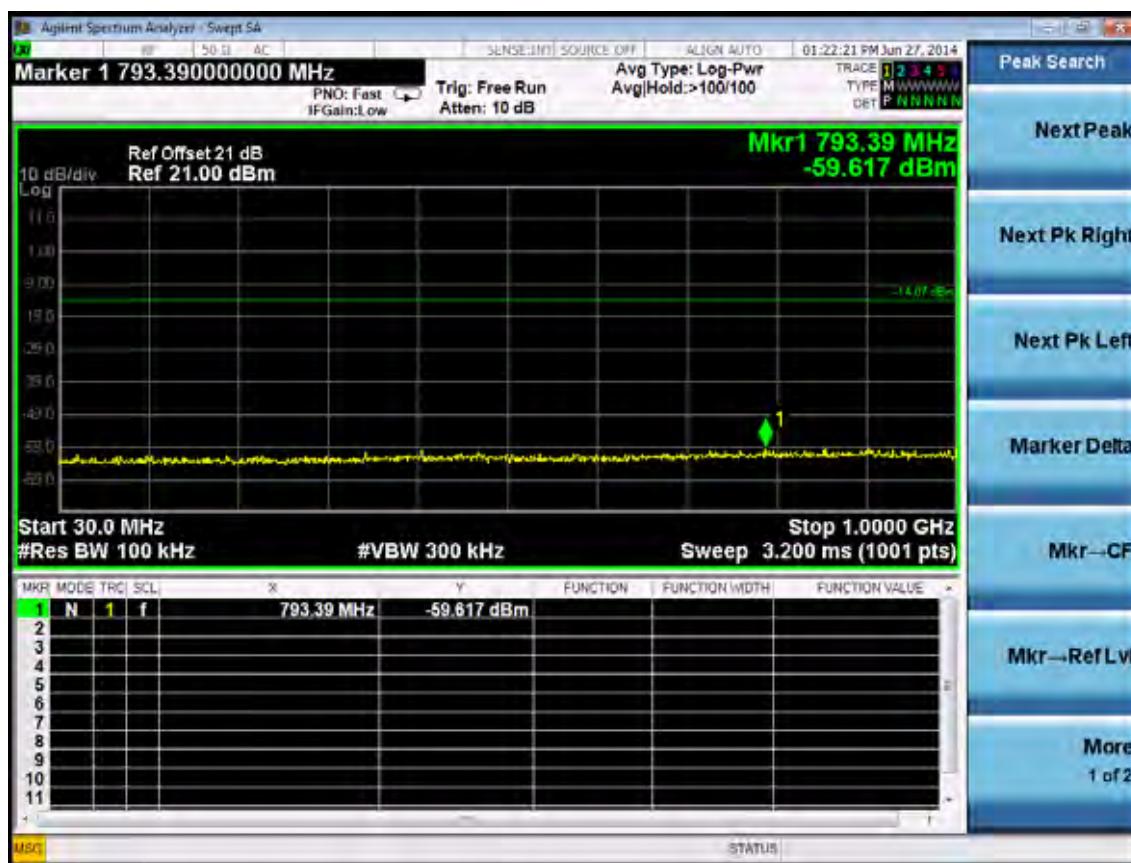
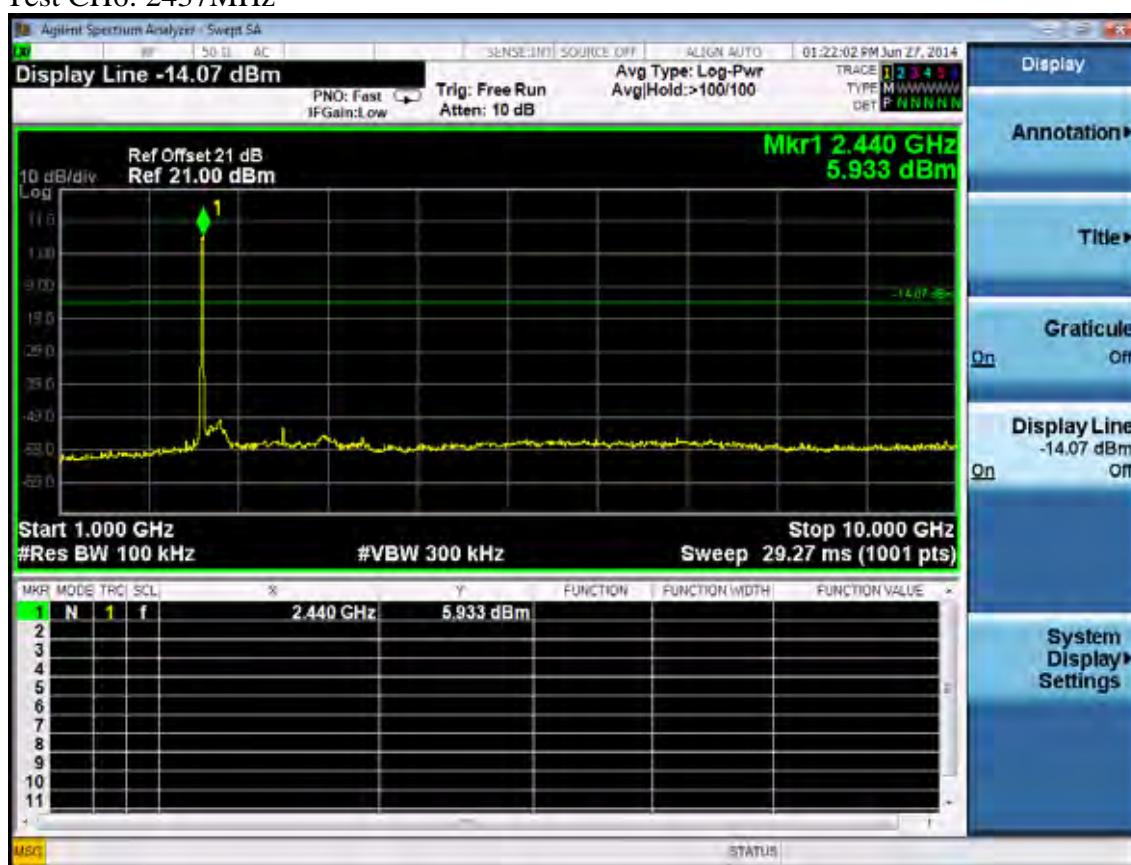
Test Mode: IEEE 802.11b TX

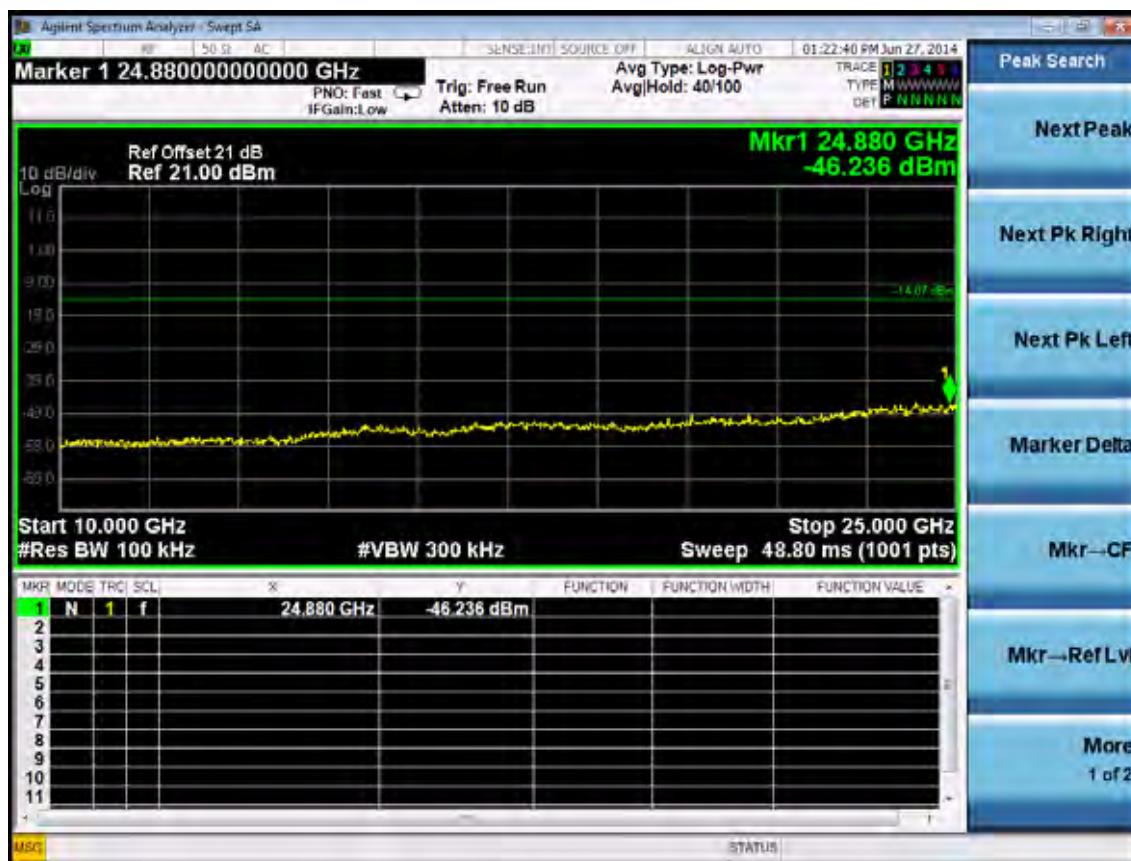
Test CH1: 2412MHz



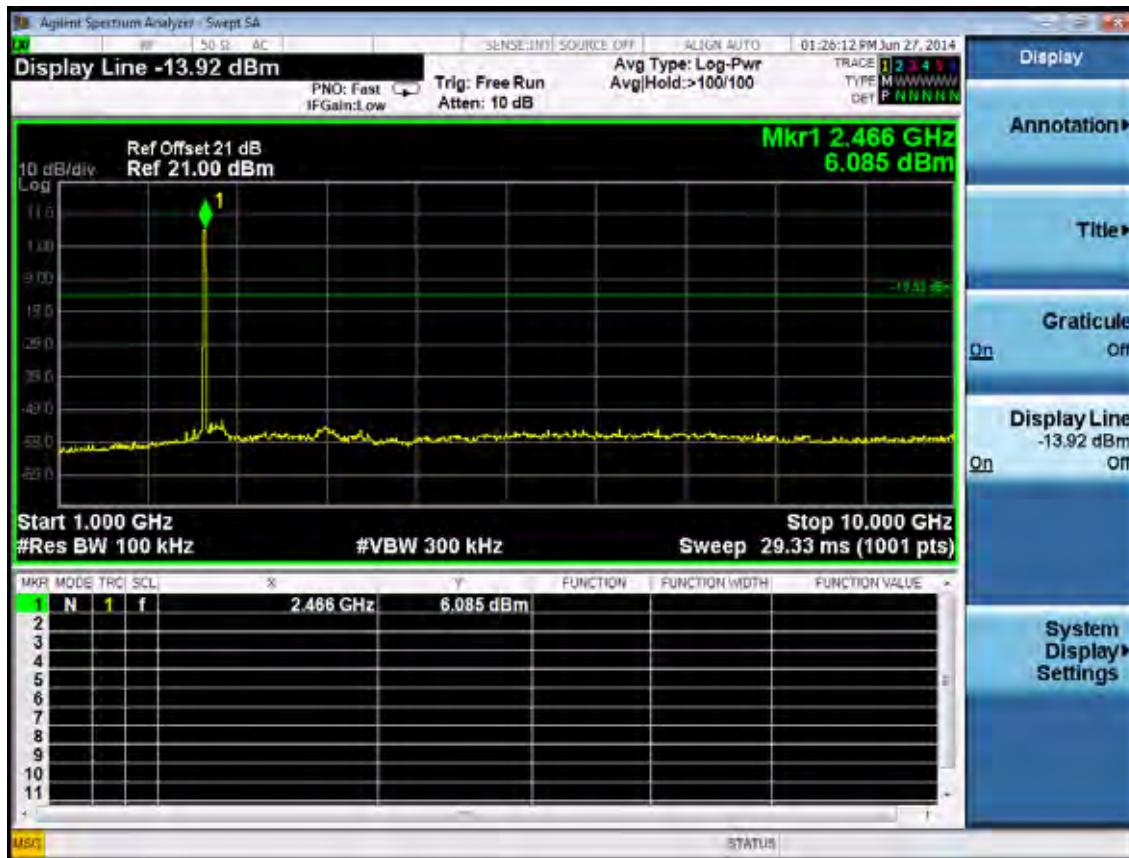


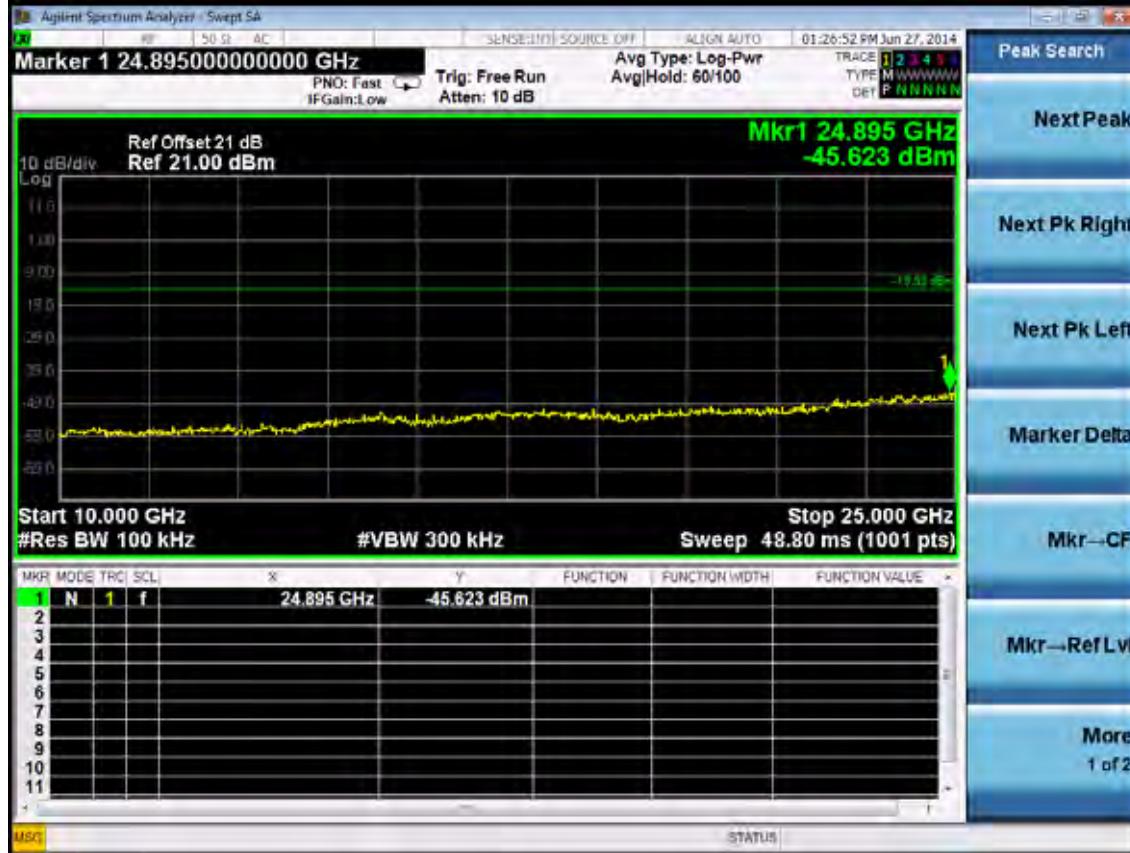
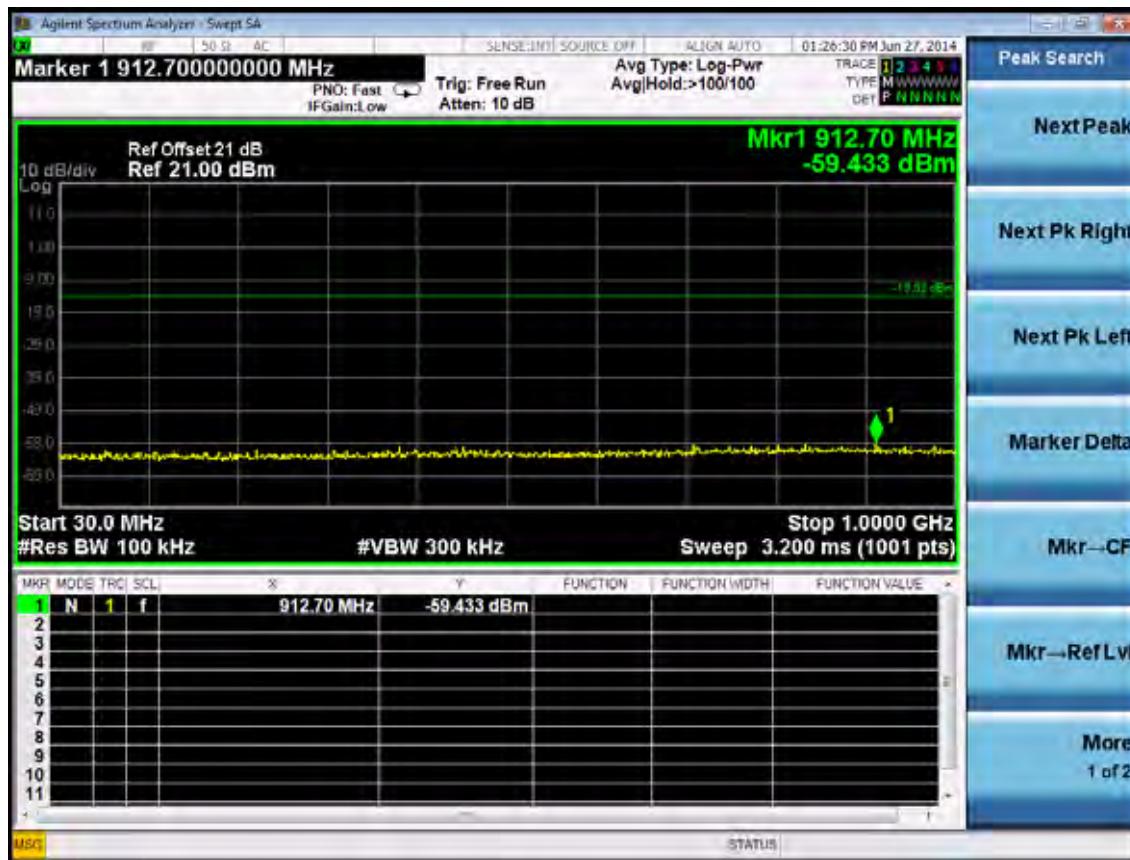
Test CH6: 2437MHz





Test CH11: 2462MHz

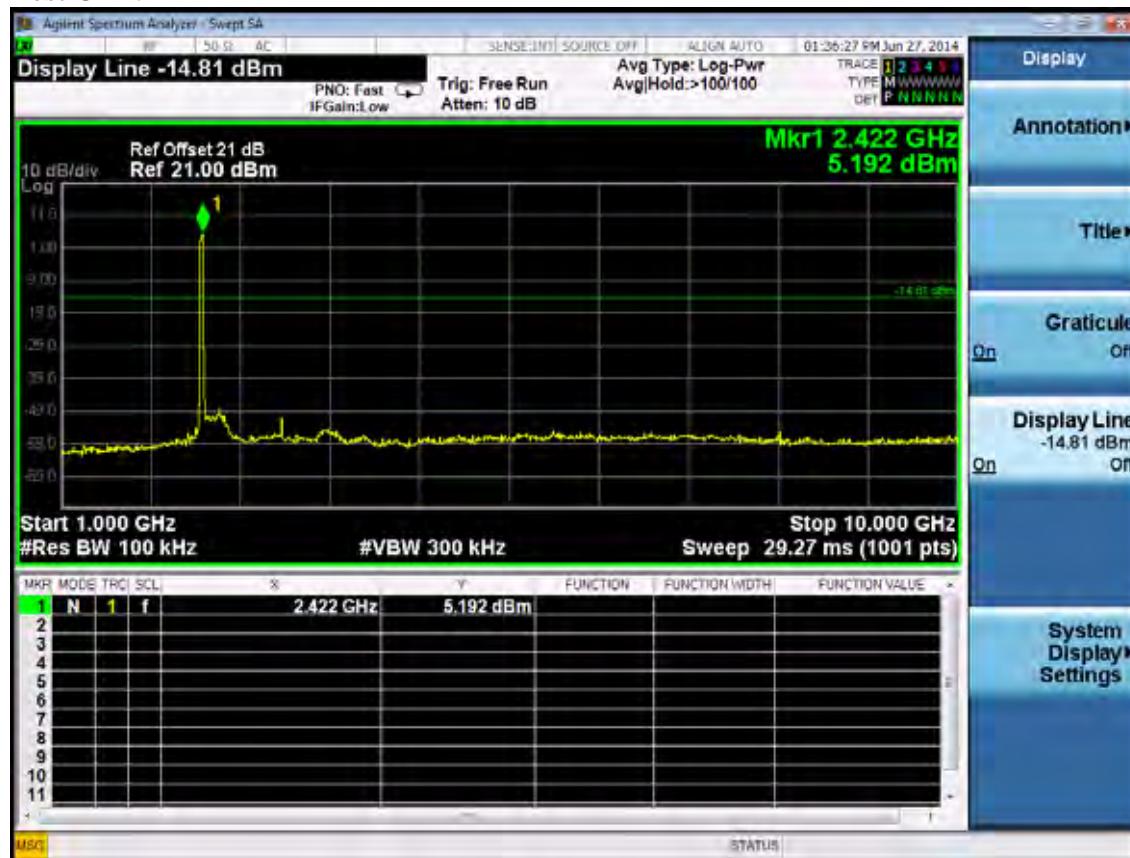


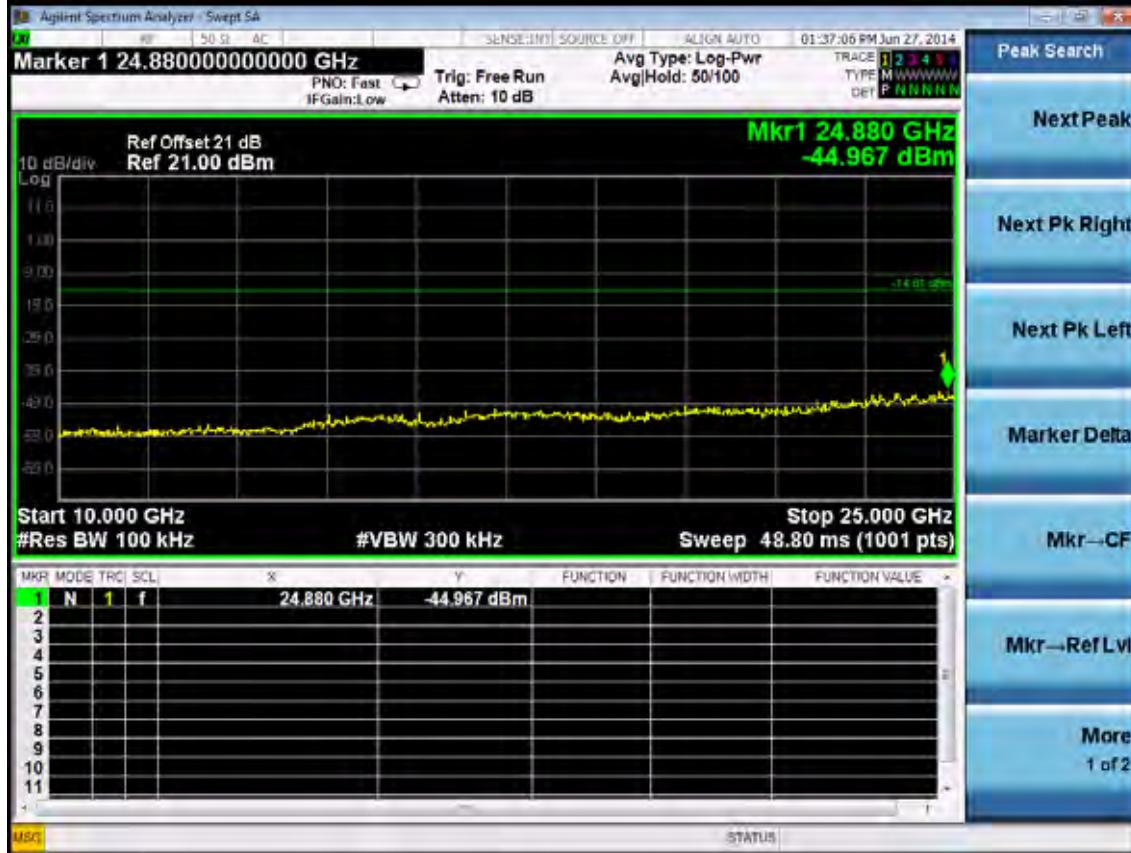
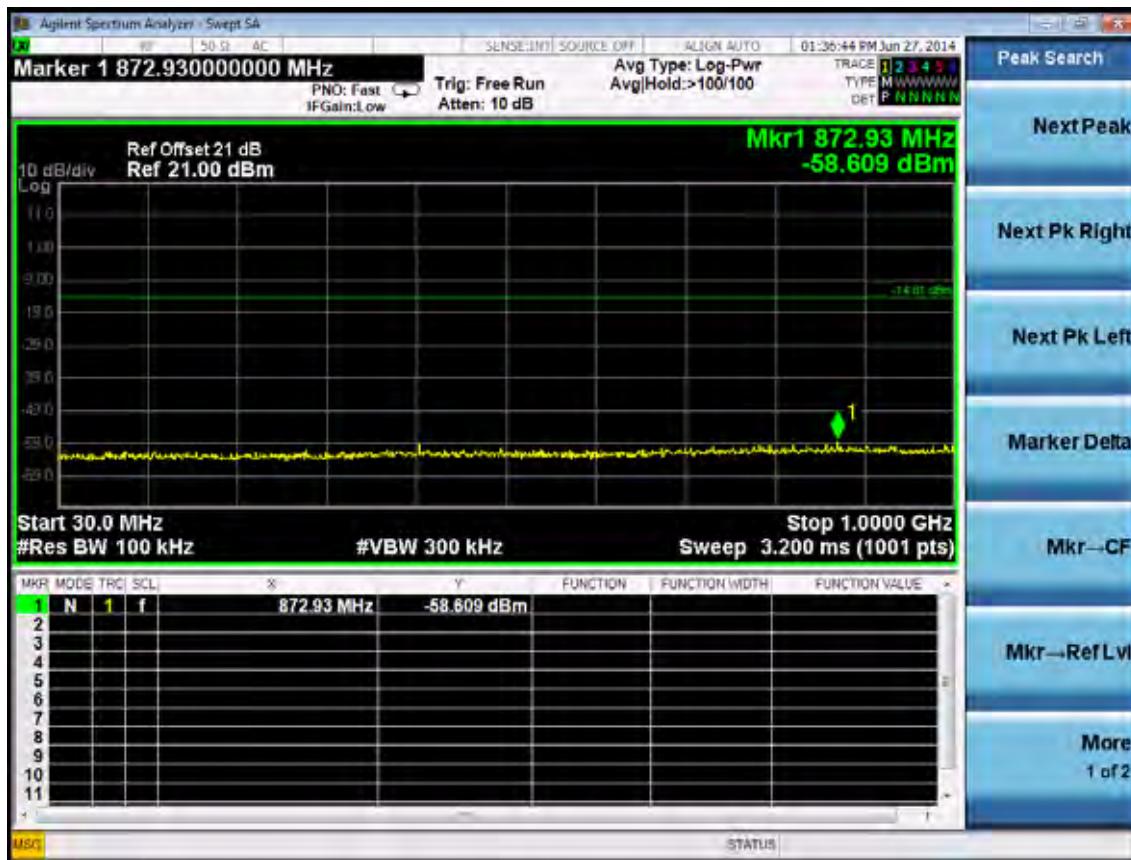




Test Mode: IEEE 802.11g TX

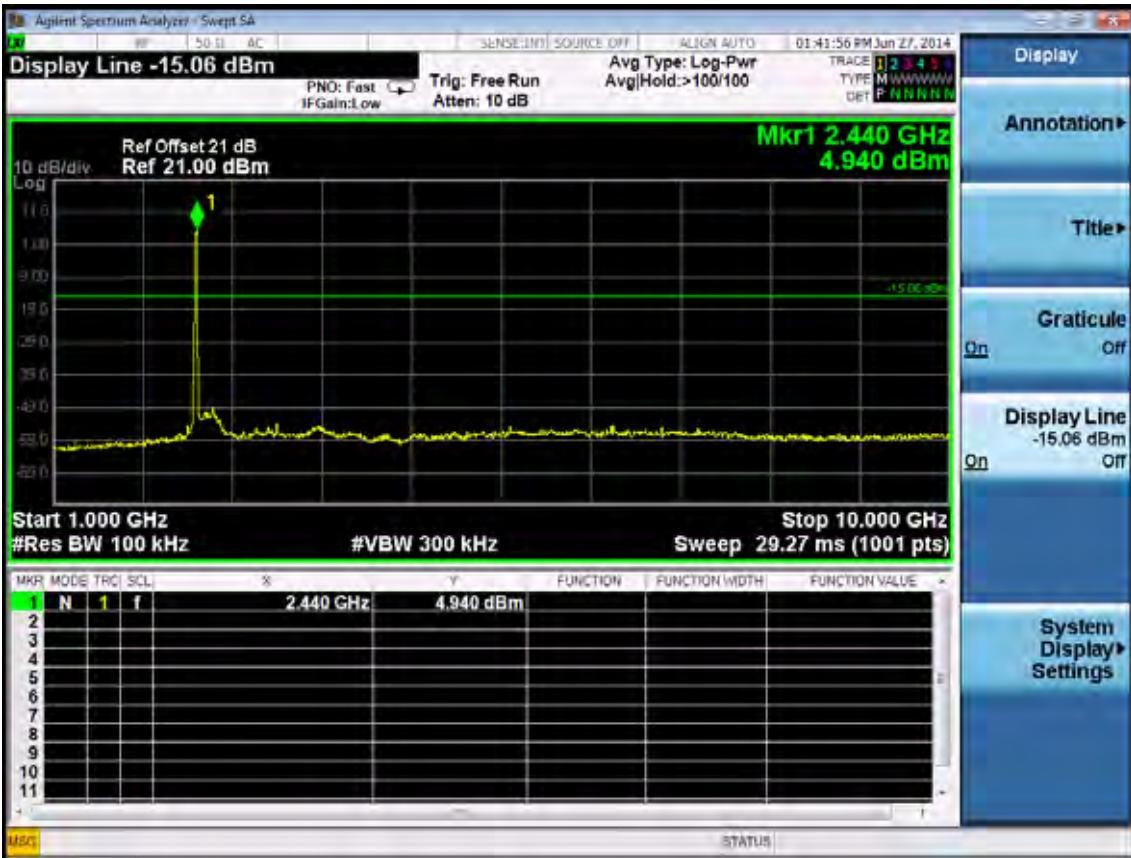
Test CH1: 2412MHz

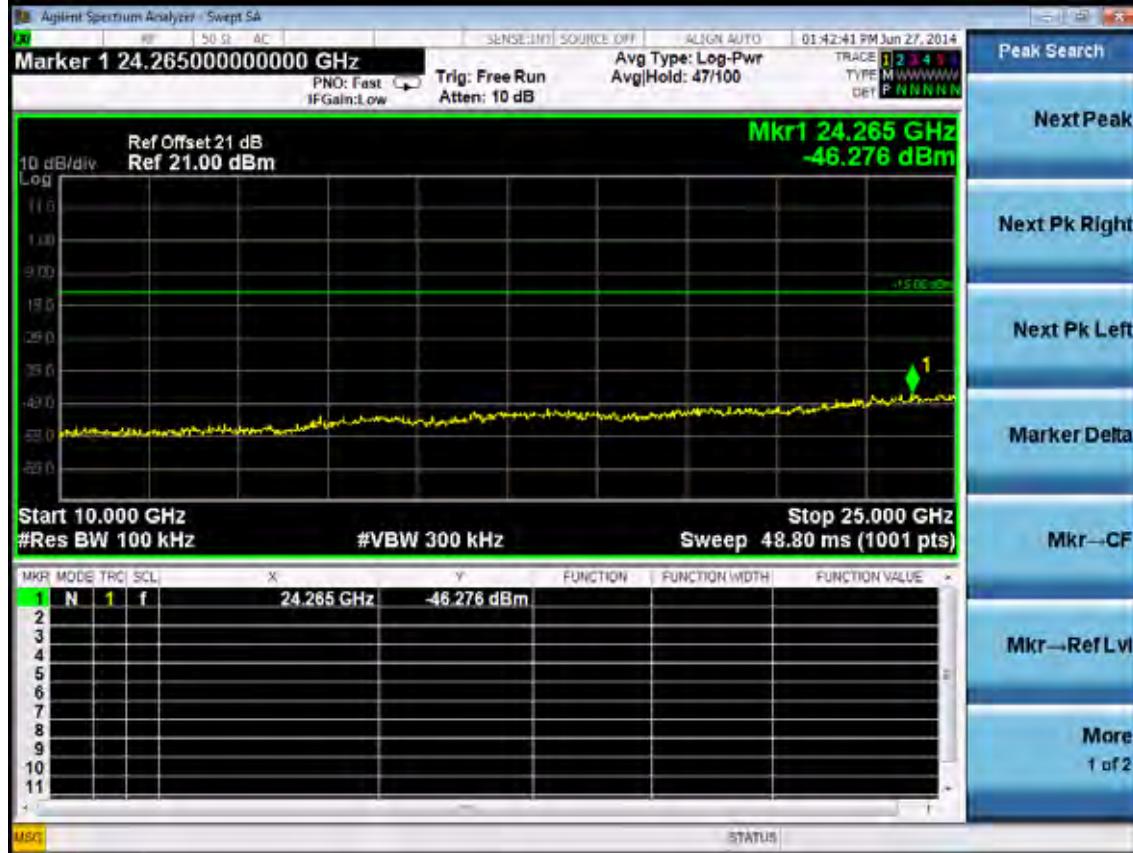
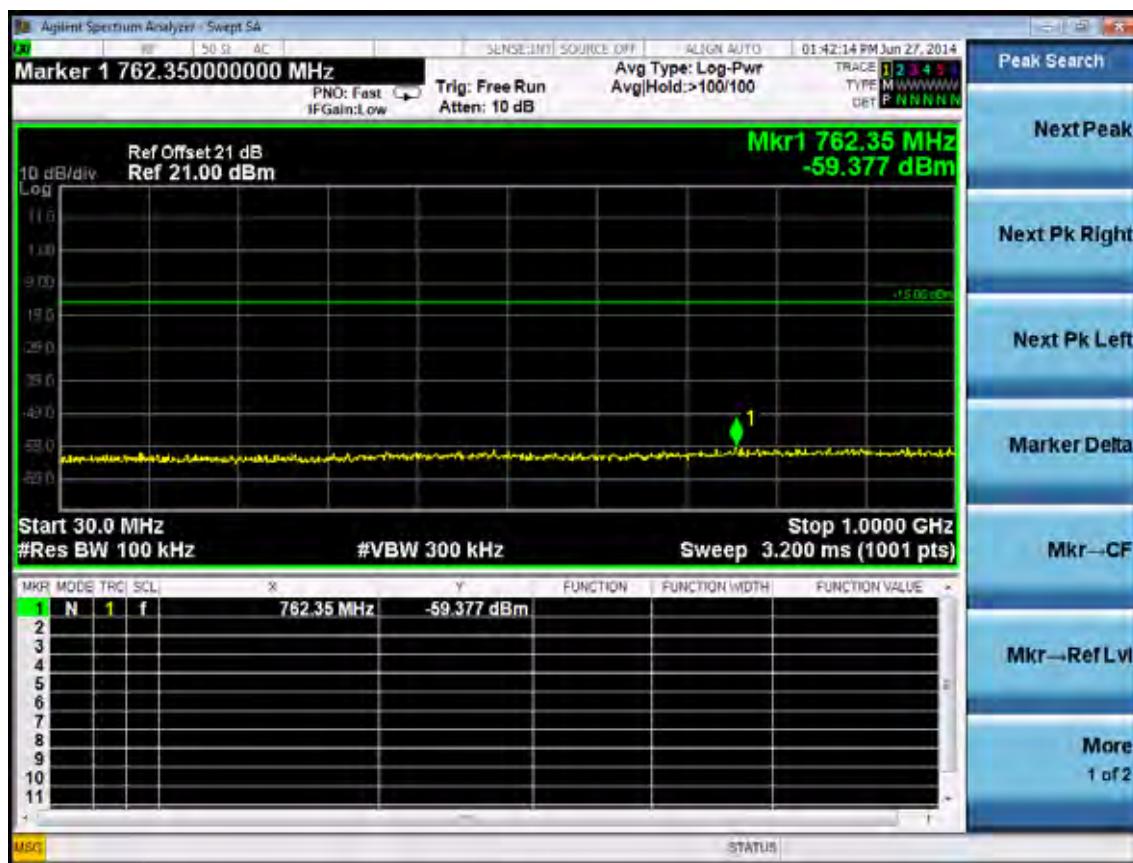




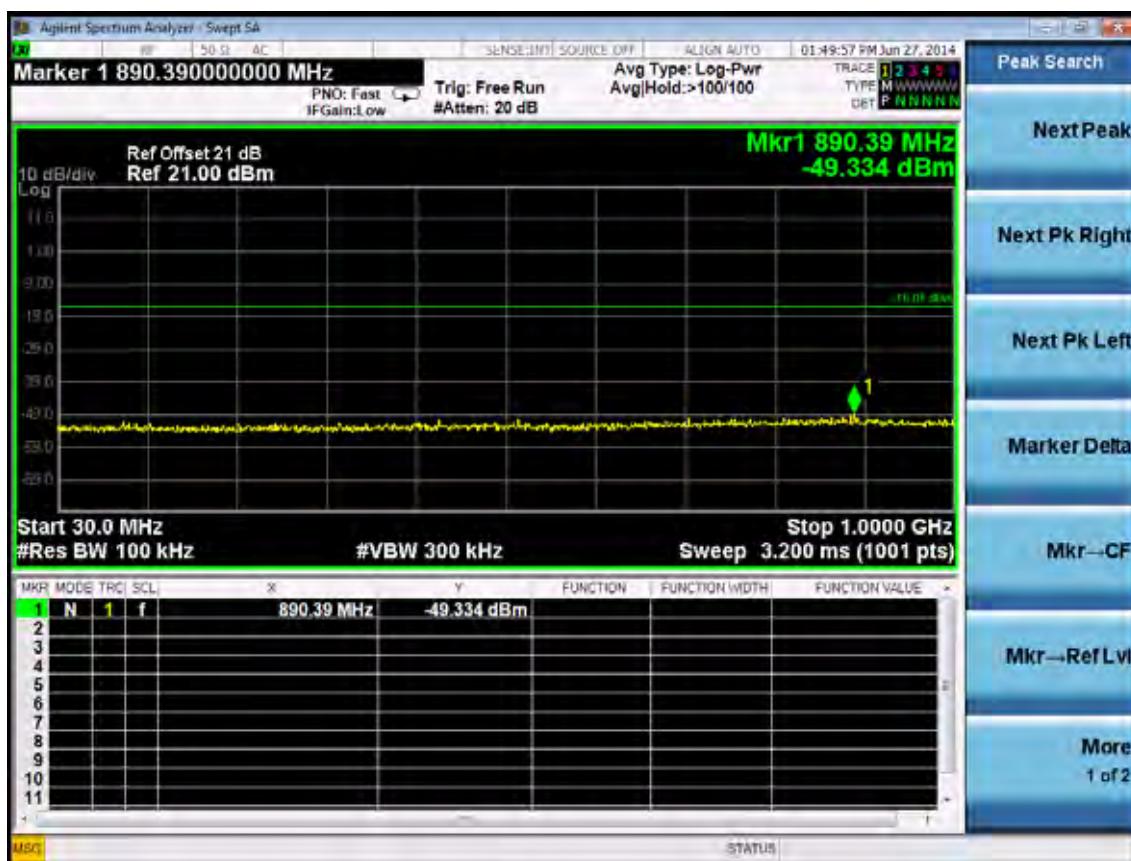
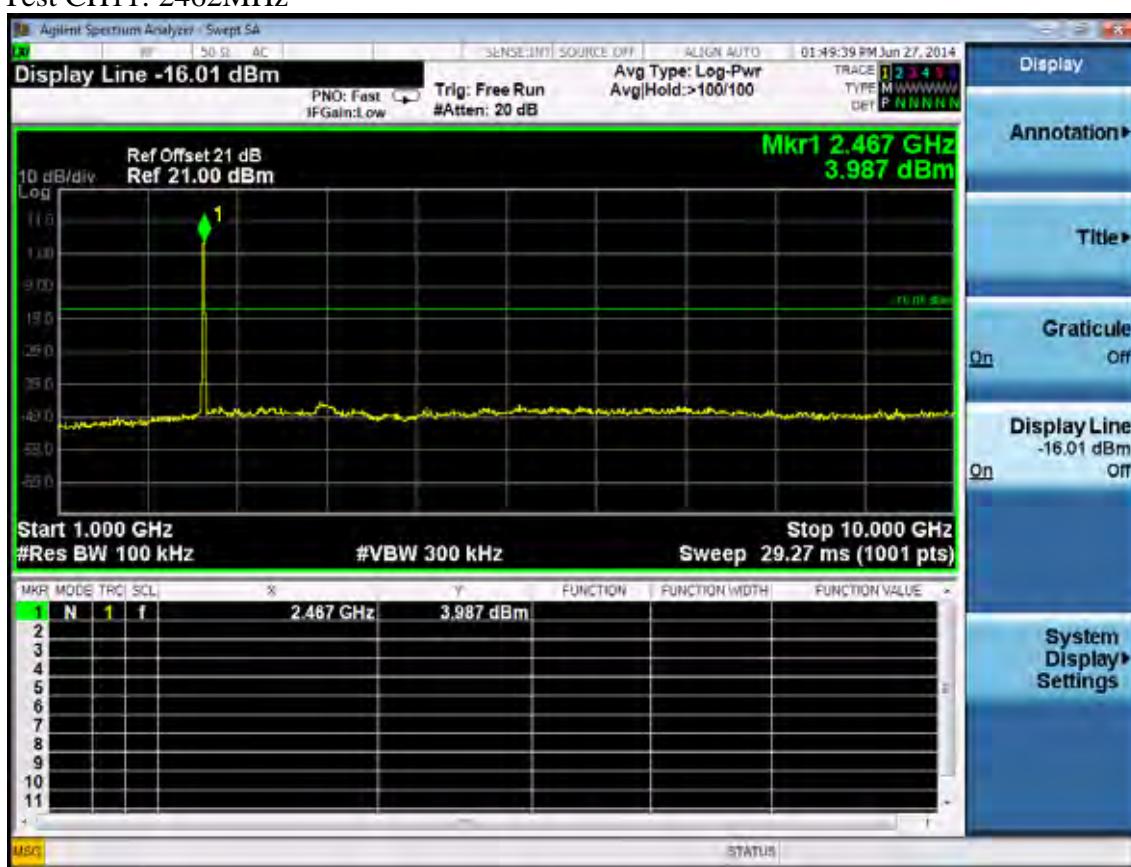


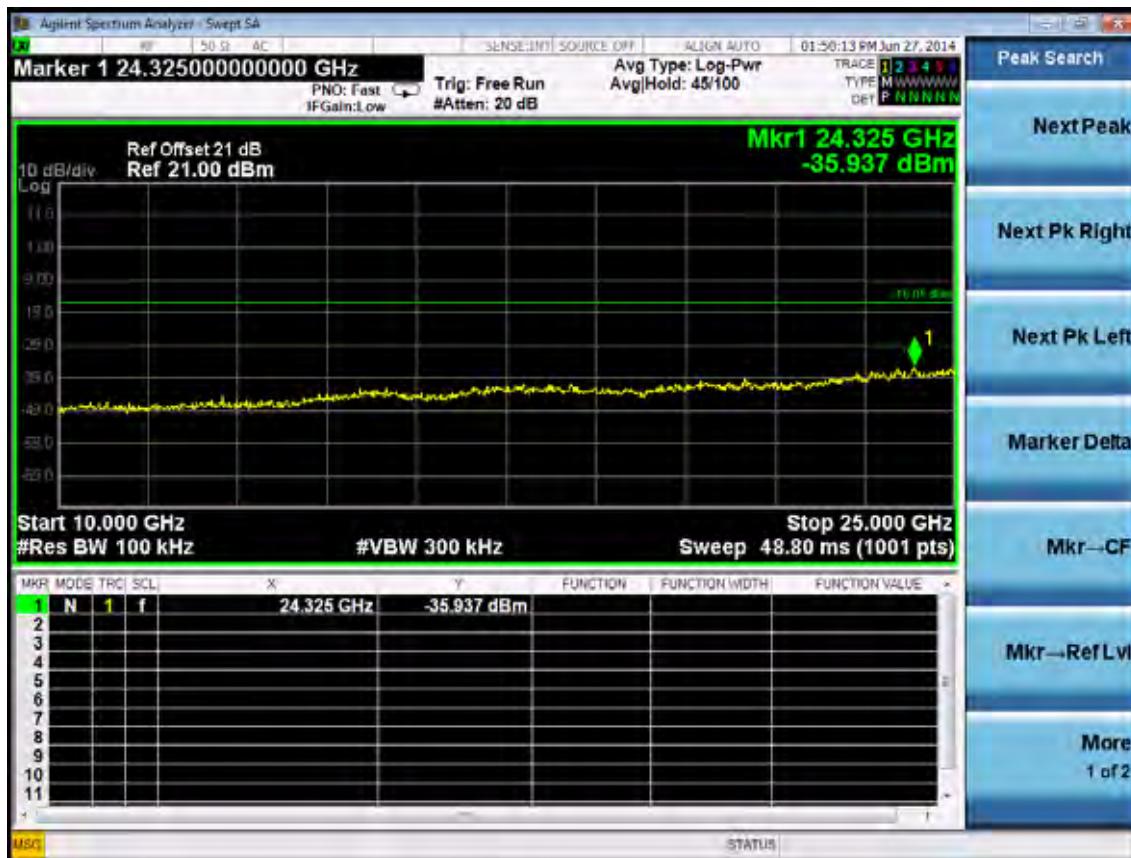
Test CH6: 2437MHz



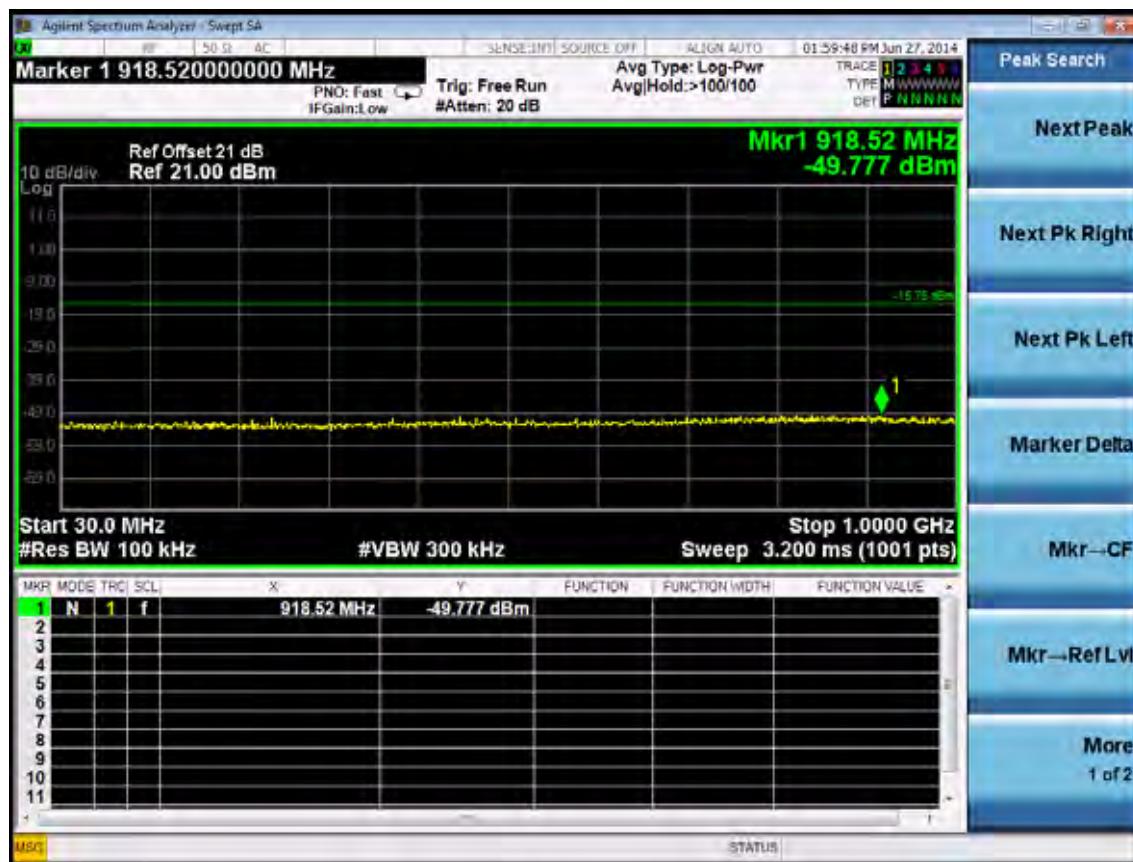
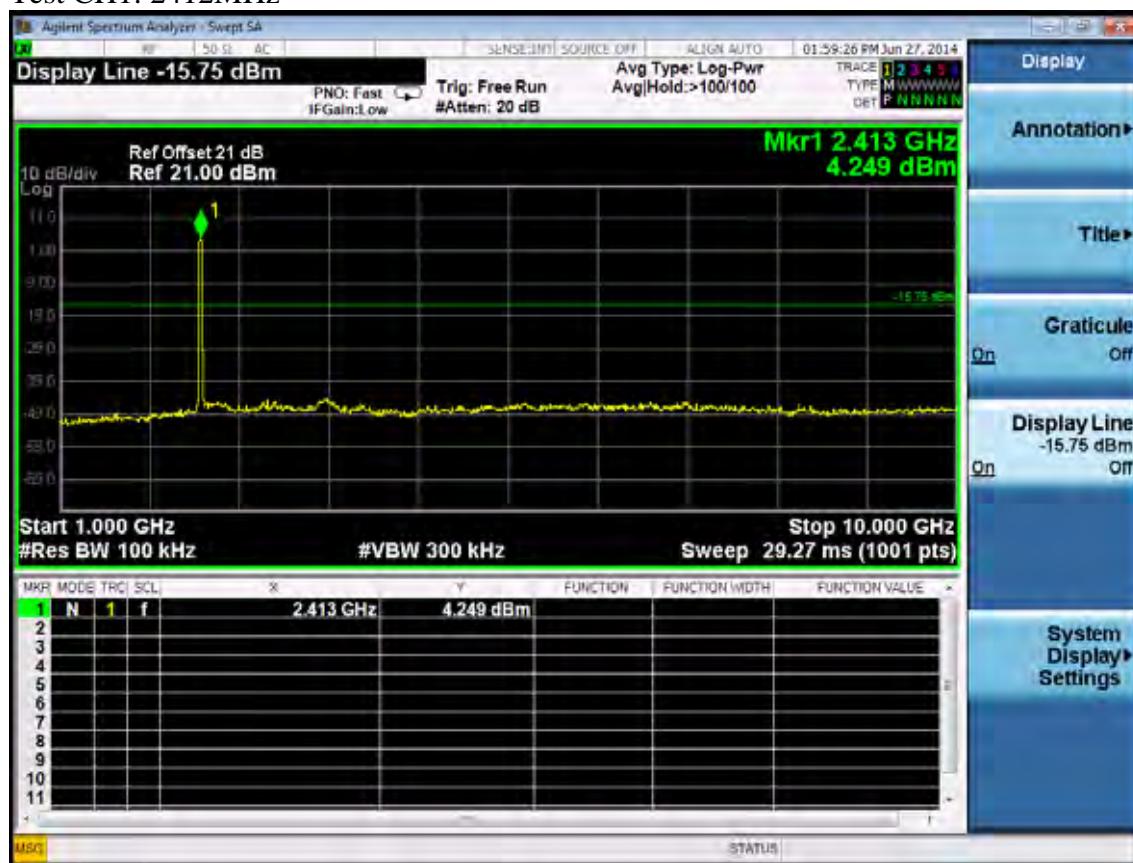


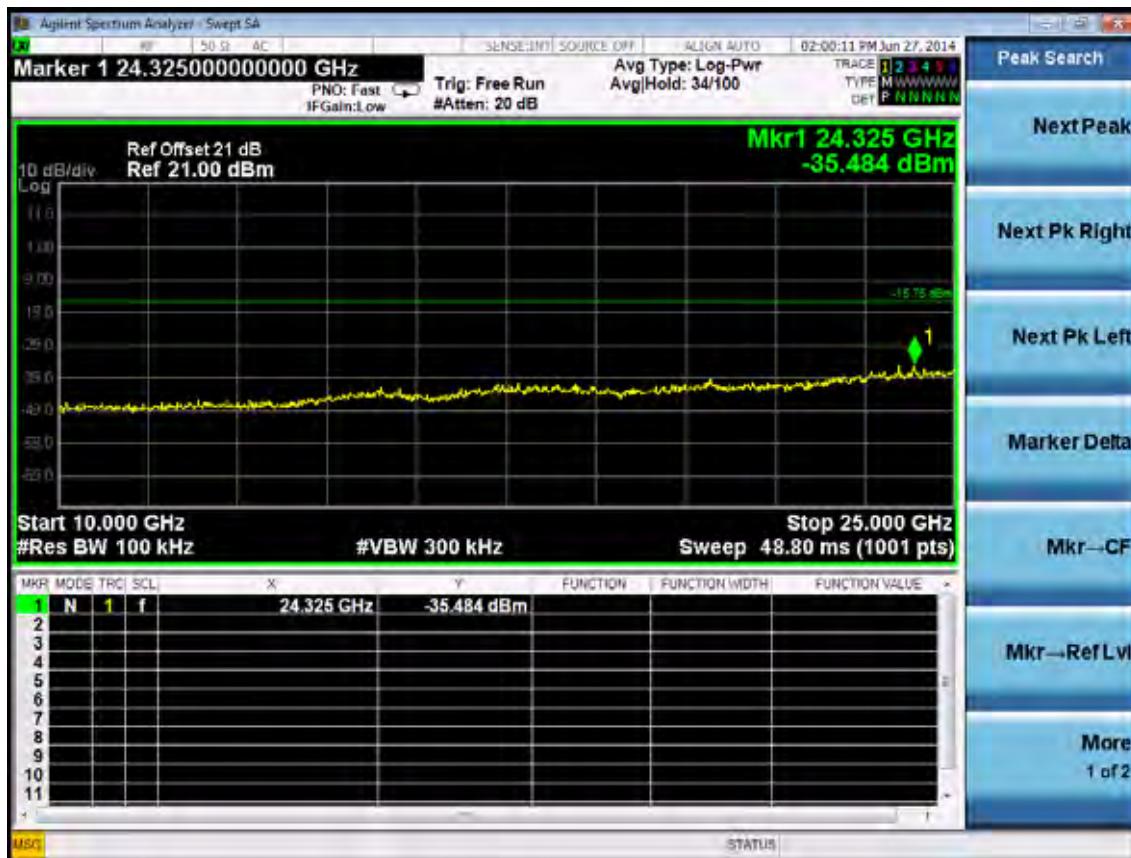
Test CH11: 2462MHz



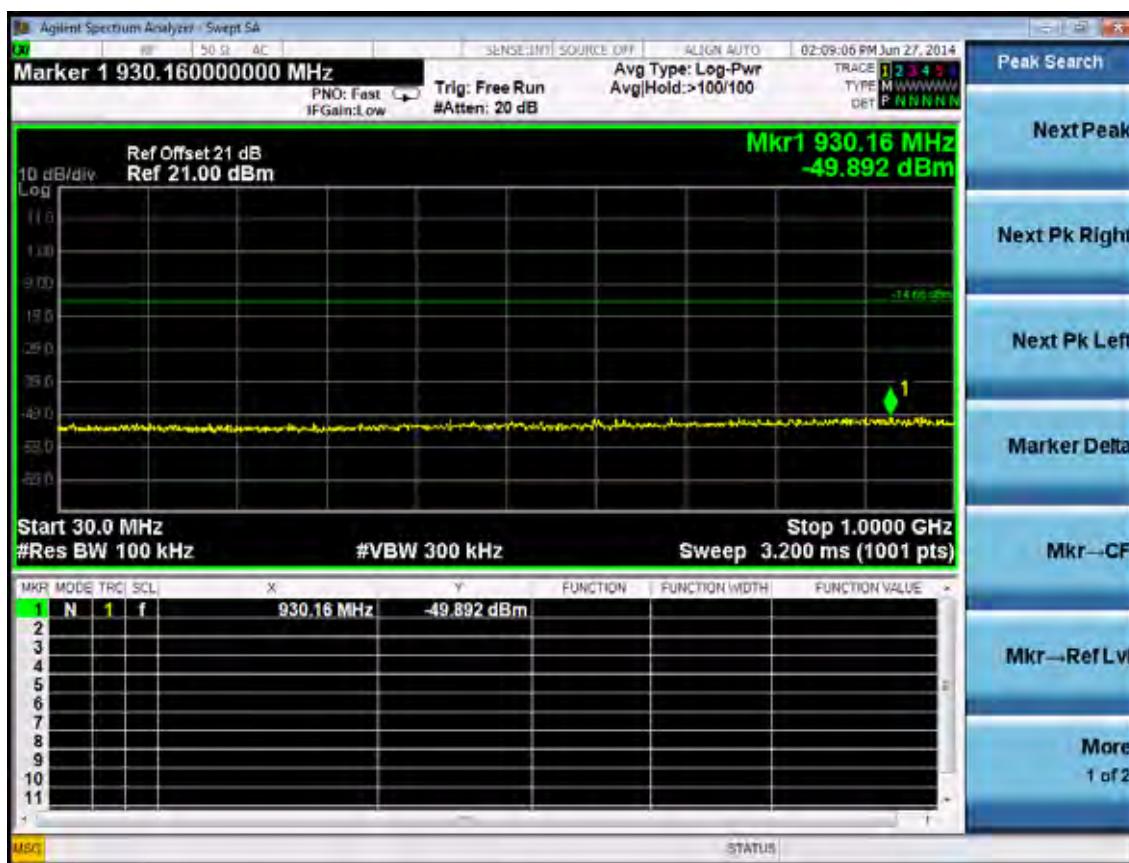
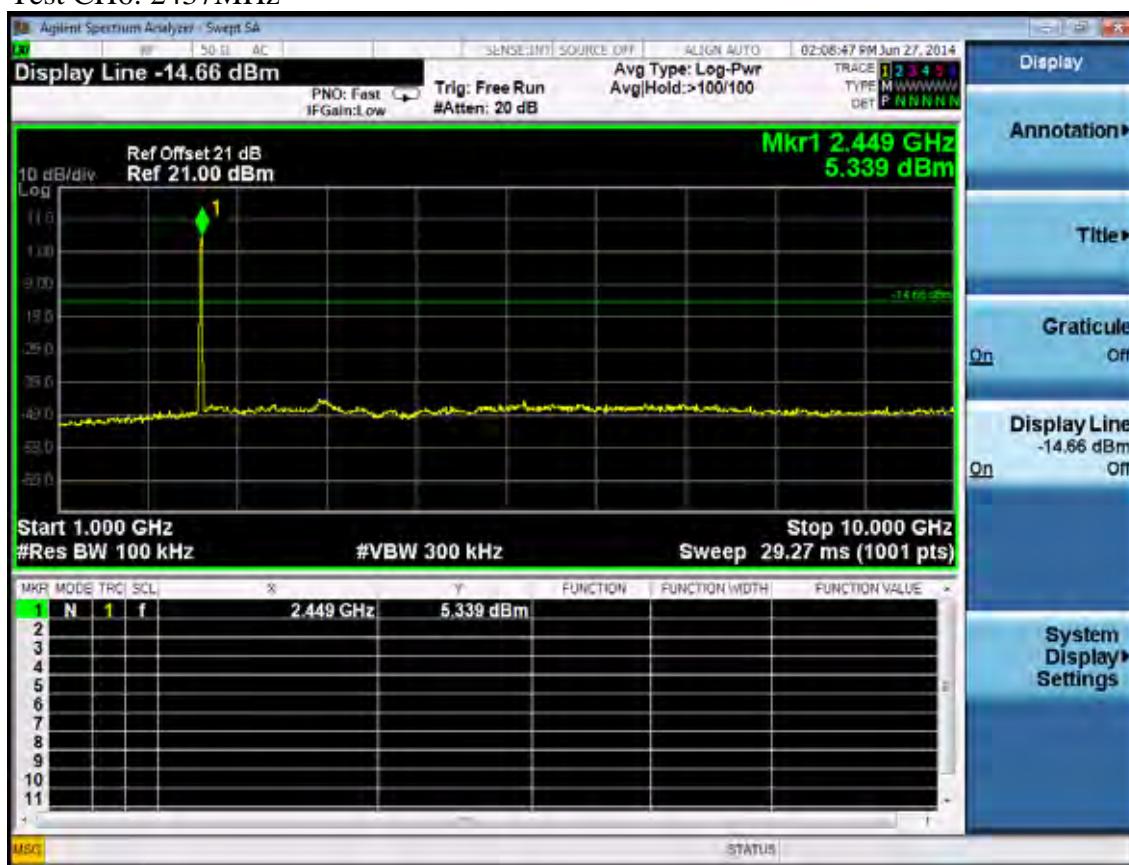


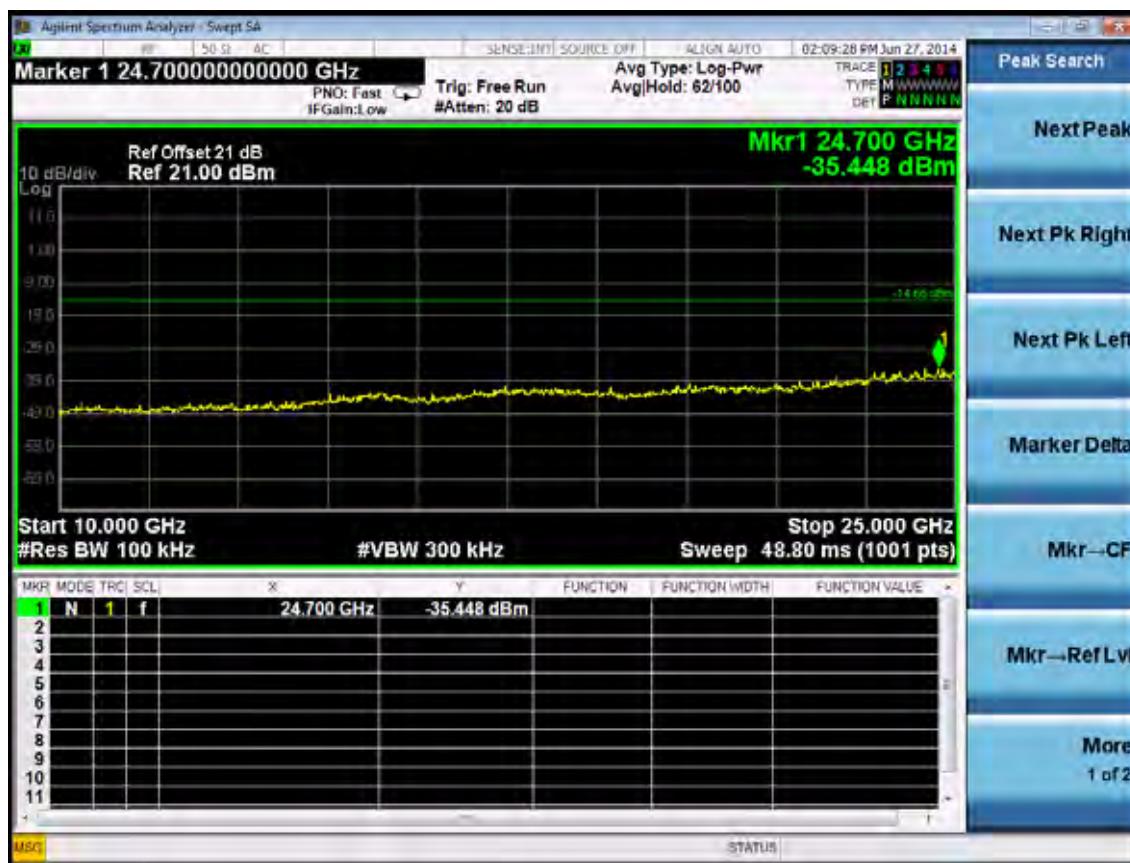
Test Mode: IEEE 802.11n HT20 TX
 Test CH1: 2412MHz



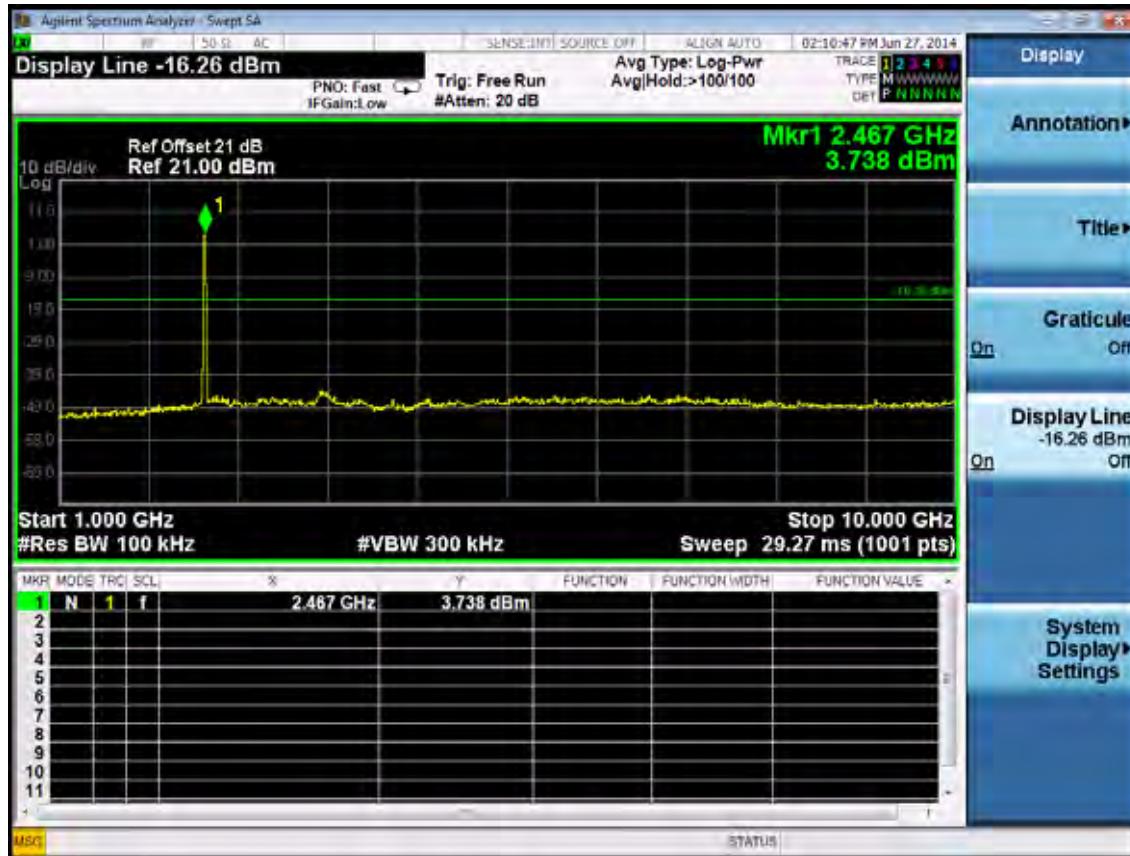


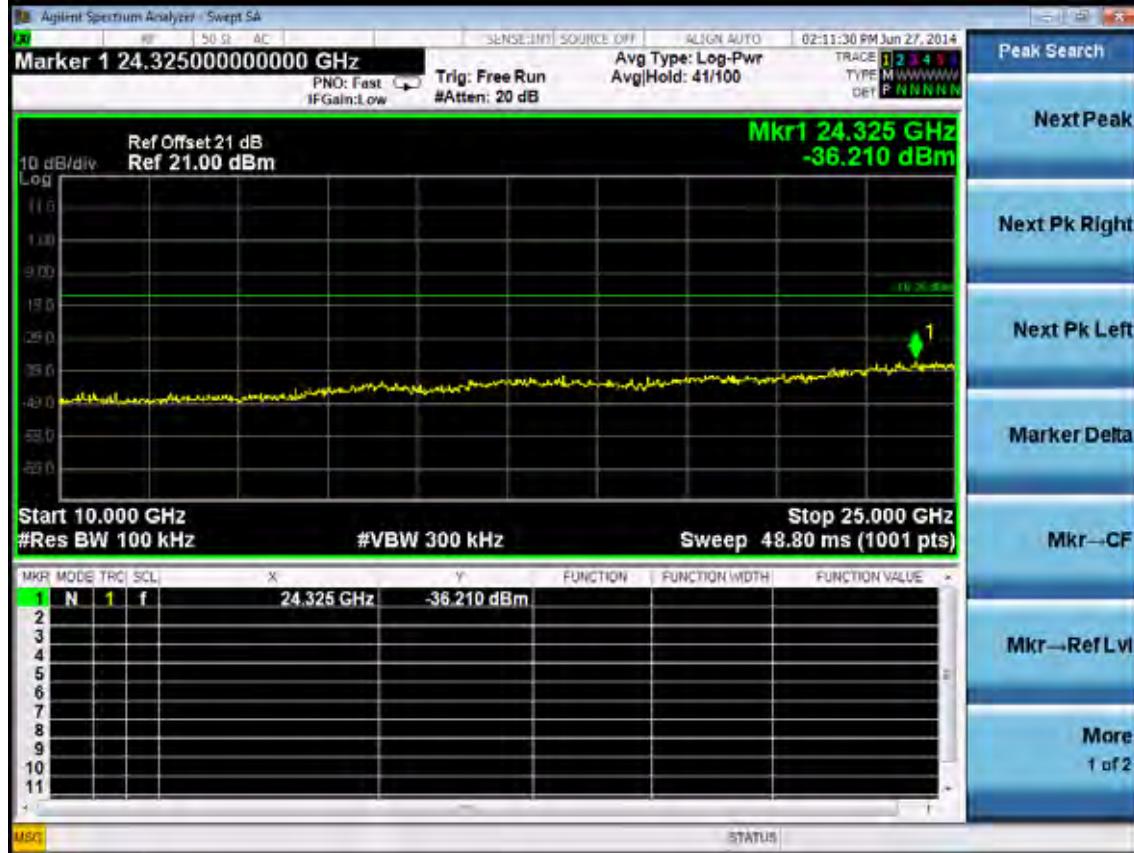
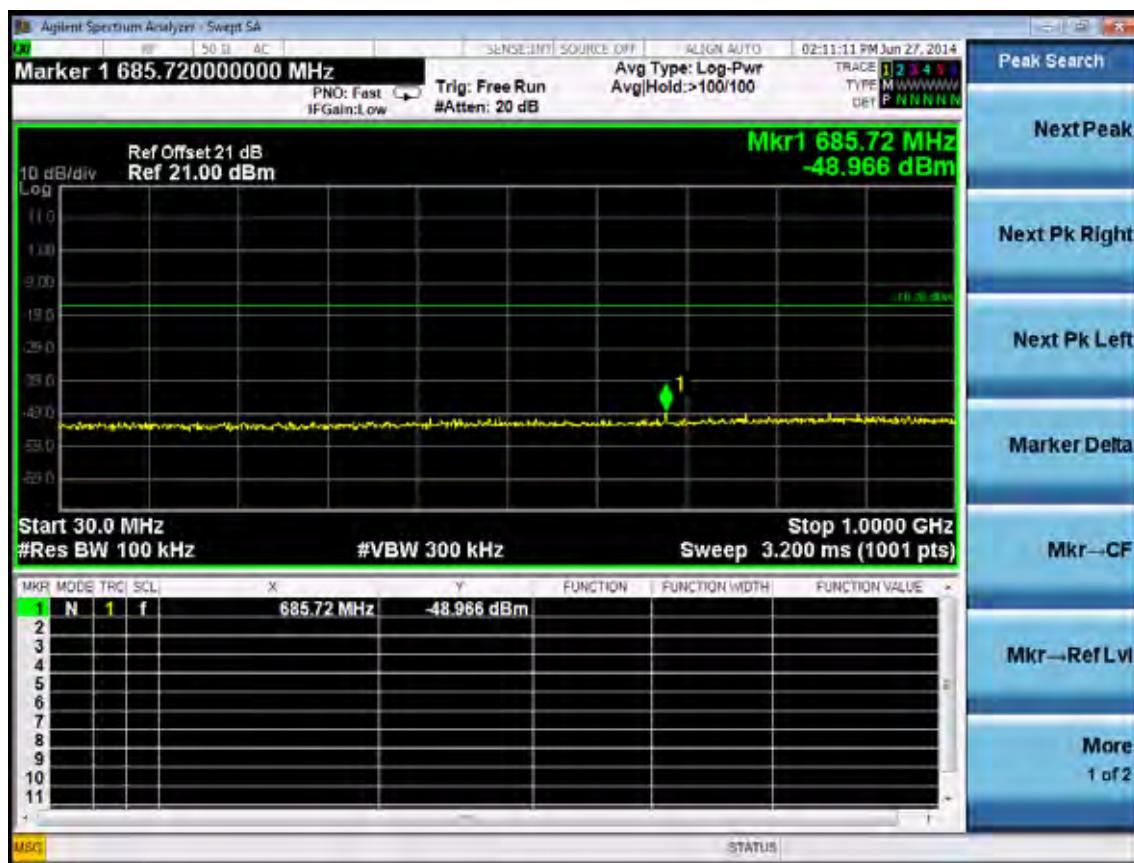
Test CH6: 2437MHz





Test CH11: 2462MHz

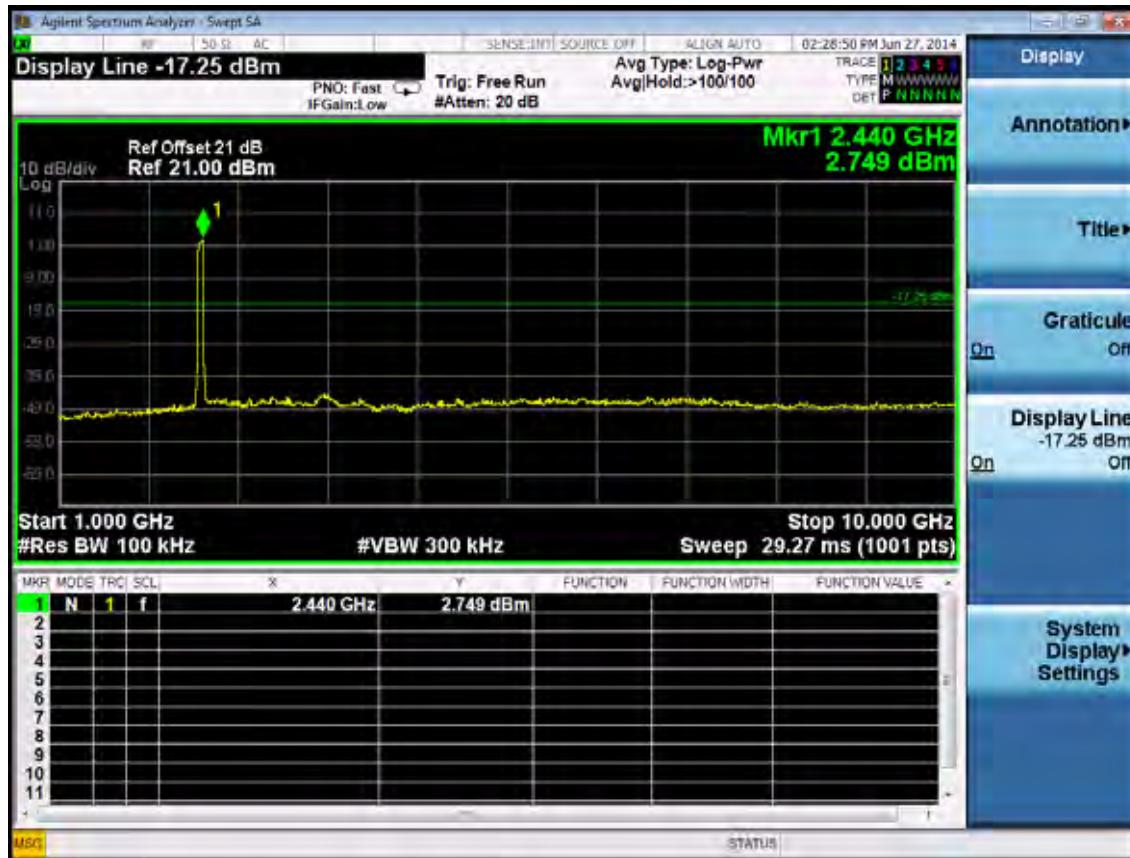


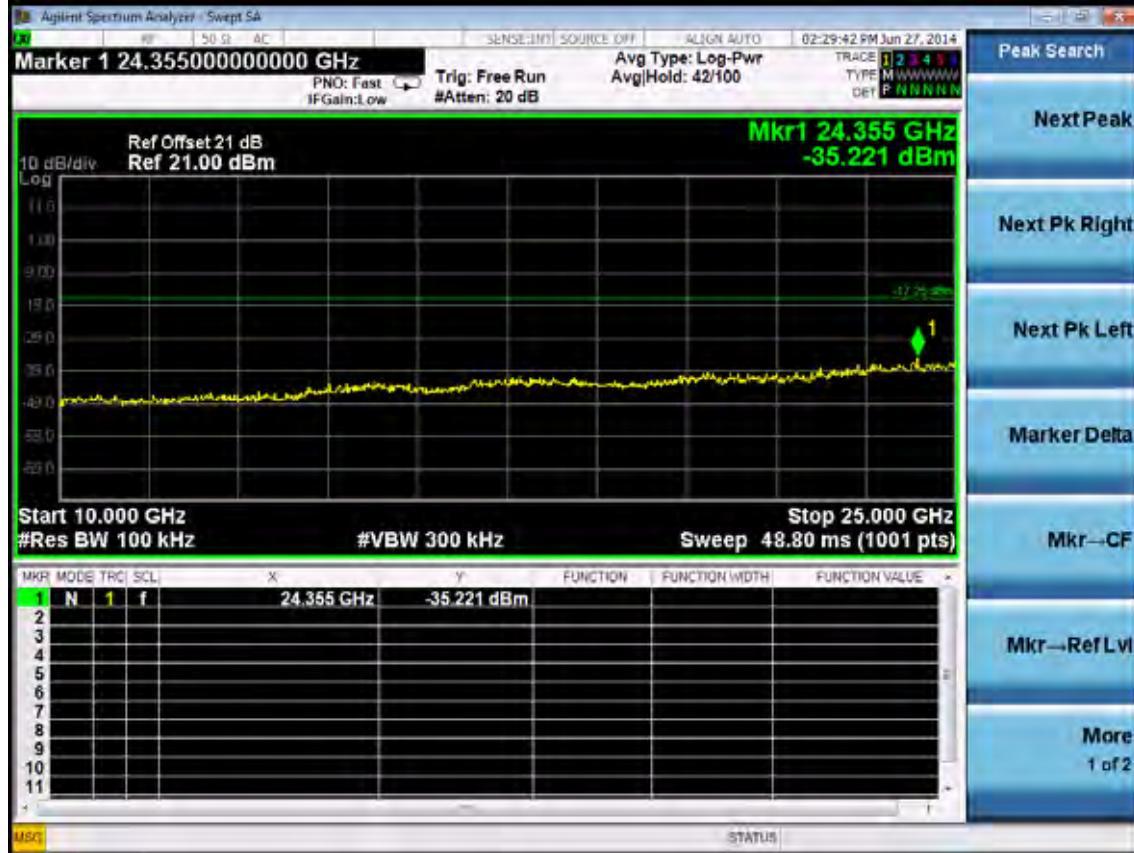
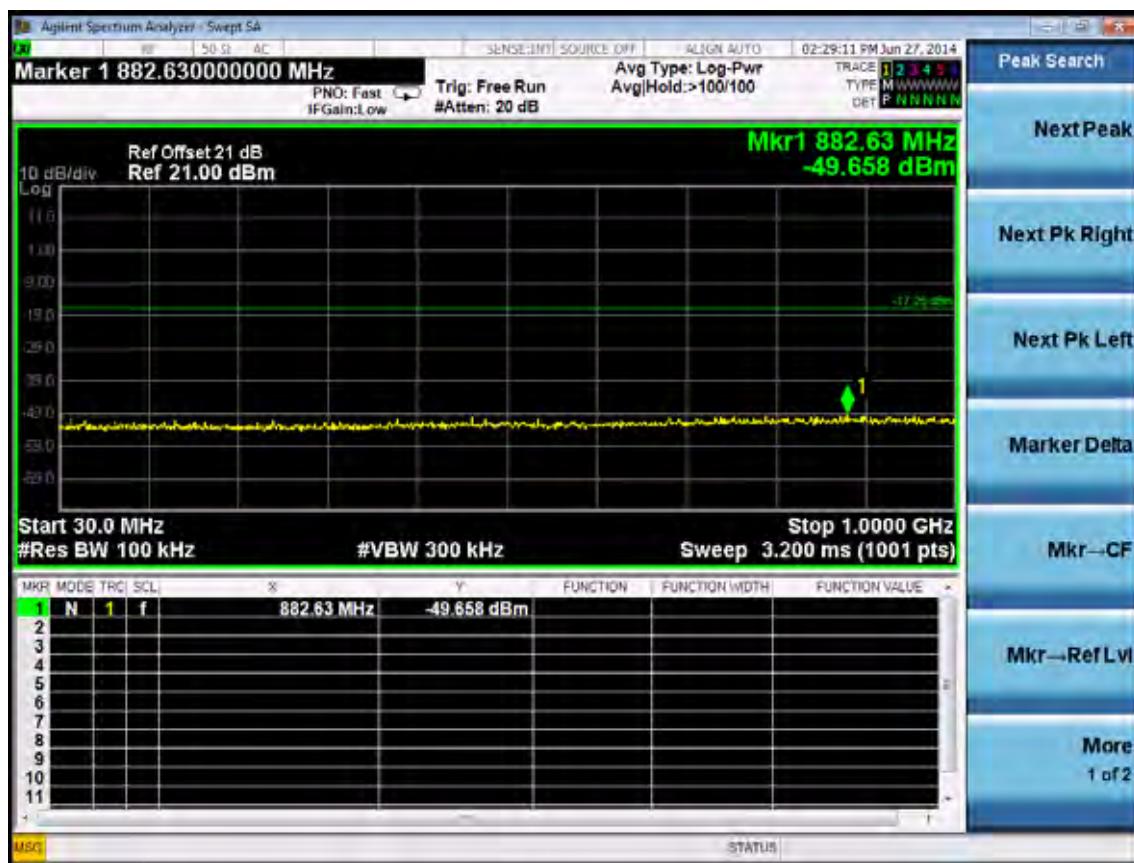


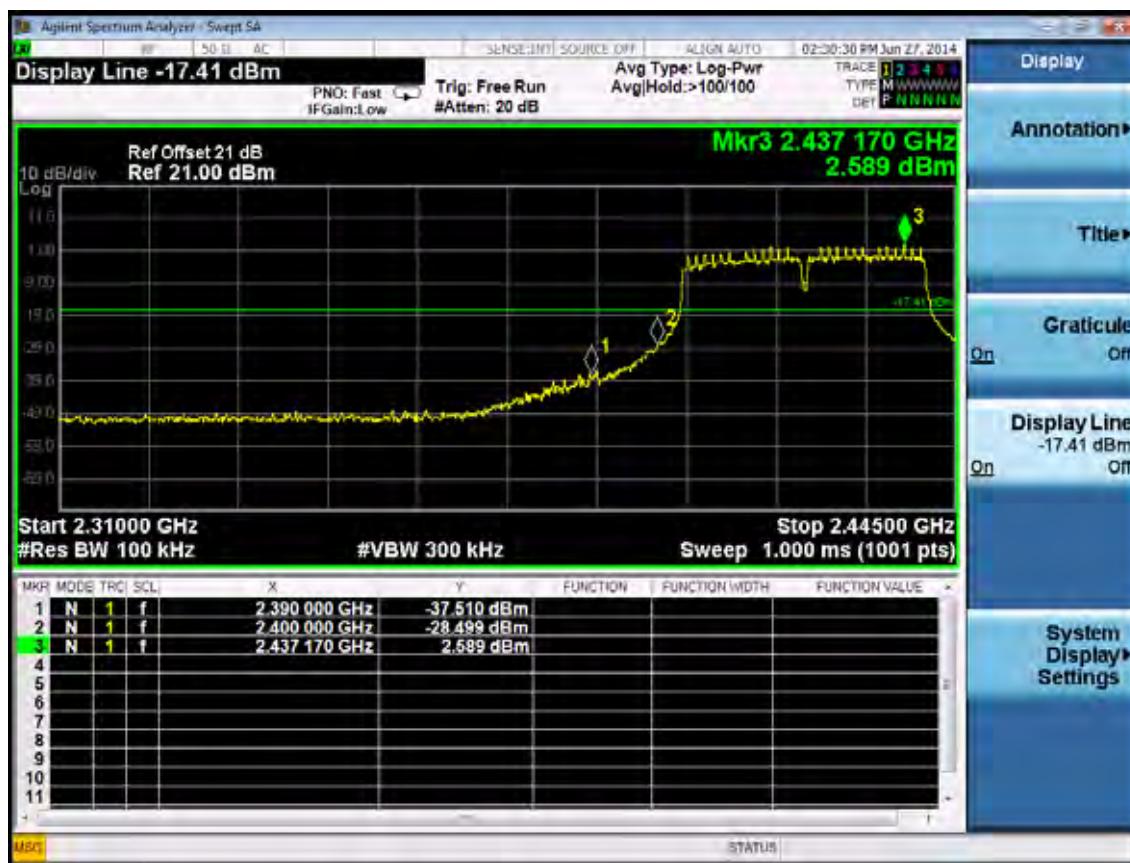


Test Mode: IEEE 802.11n HT40 TX

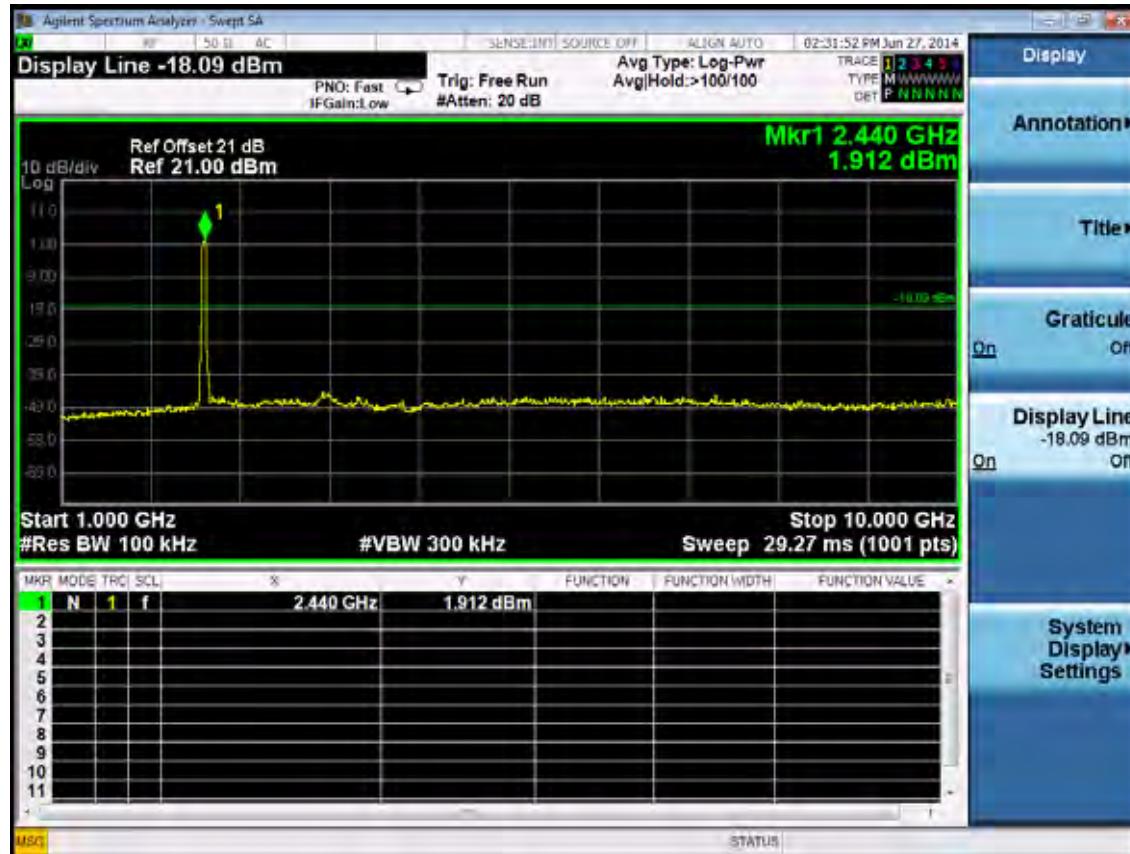
Test CH1: 2422MHz

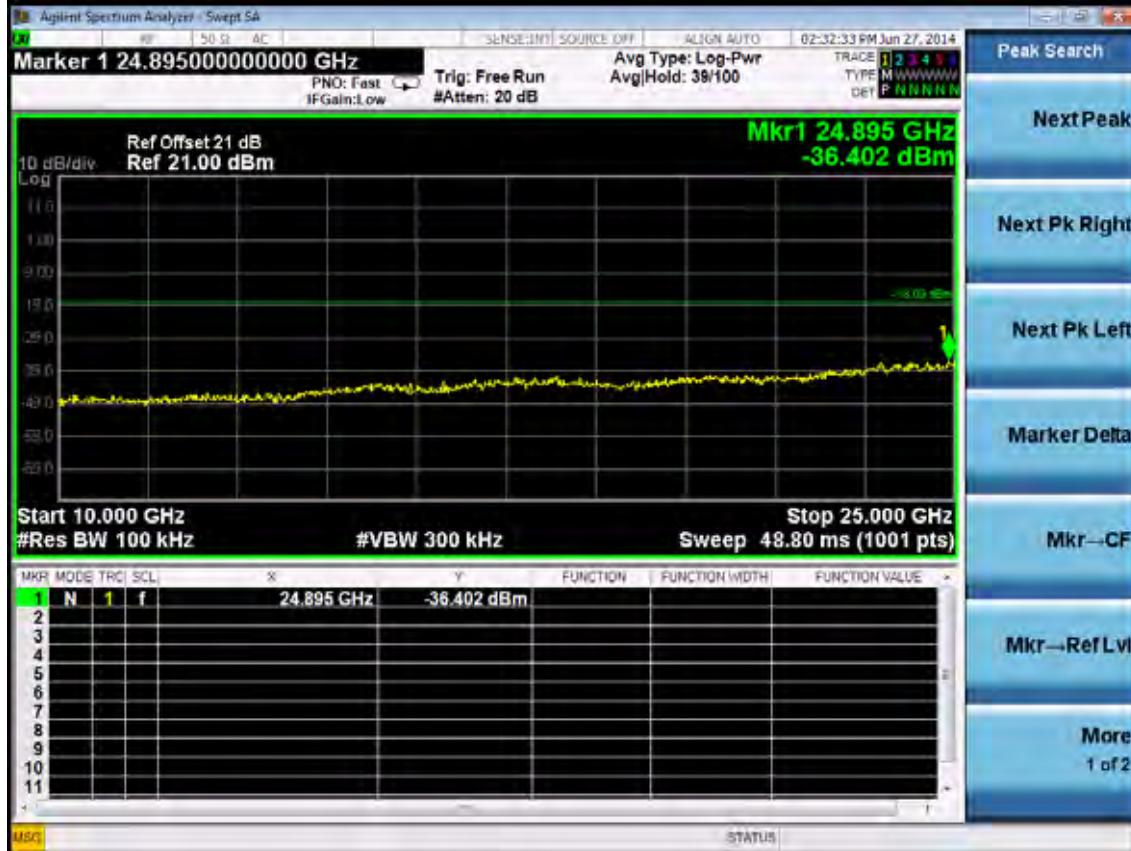
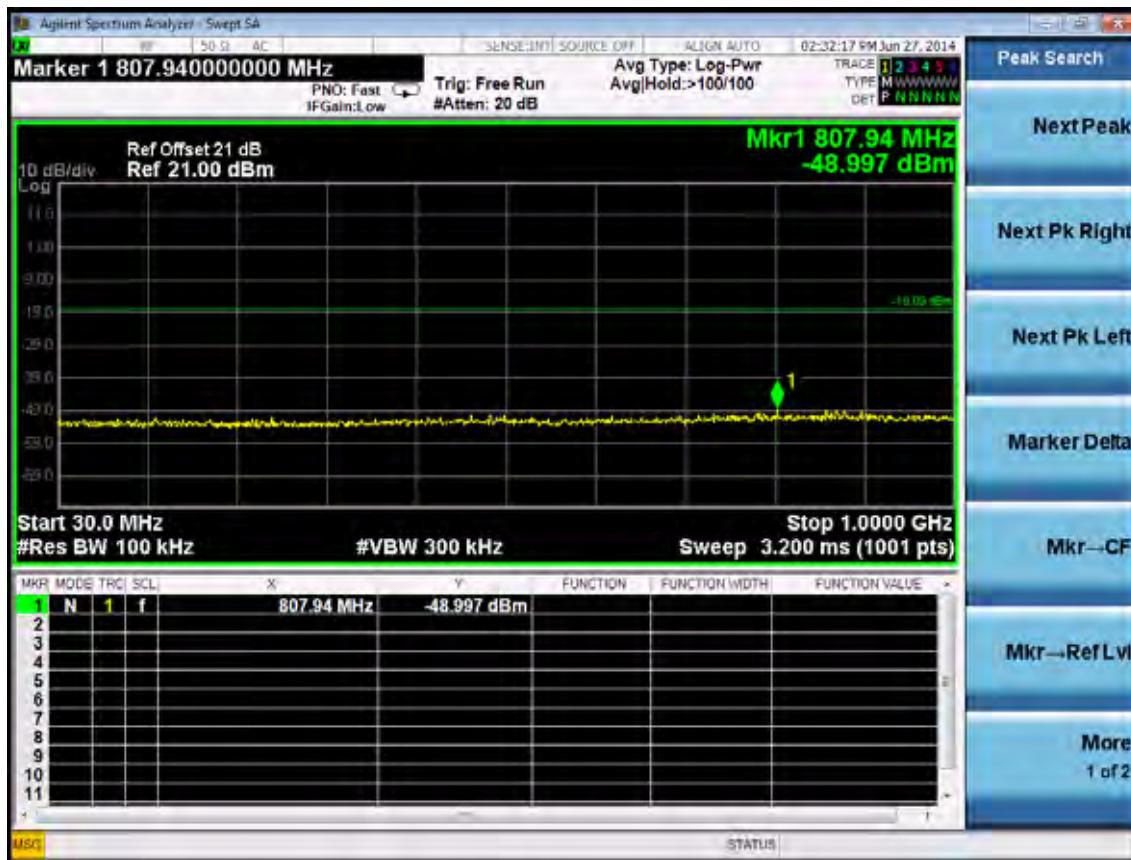






Test CH4: 2437MHz





Test CH7: 2452MHz

