Test Report

FCC Part15 Subpart E

Product Name	:	AC1200 Wireless Dual Band Gigabit Access Point
Model No.	:	EAP225
FCC ID	:	TE7EAP225

Applicant	:	TP-LINK TECHNOLOGIES CO., LTD.
Address	:	Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China

Date of Receipt	:	May. 06, 2016
Test Date	:	May. 06, 2016~ Jun. 20, 2016
Issued Date	:	Jul. 28, 2016
Report No.	:	1652013R-RF-US-P09V01
Report Version	:	V1.1

Test Report Certification

Issued Date : Jul. 28, 2016
Report No. : 1652013R-RF-US-P09V01

Product Name	:	AC1200 Wireless Dual Band Gigabit Access Point
Applicant	:	TP-LINK TECHNOLOGIES CO., LTD.
Address	:	Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Manufacturer	:	TP-LINK TECHNOLOGIES CO., LTD.
Address	:	Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Model No.	:	EAP225
FCC ID	:	TE7EAP225
EUT Voltage	:	AC 100-240V, 50/60Hz
Brand Name	:	TP-LINK
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart E ANSI C63.4:2014; ANSI C63.10:2013; 789033 D02 General UNII Test Procedures New Rules v01r02 FCC 16-24
Test Result	:	Complied
Performed Location	:	Quietek Corporation - Suzhou EMC Laboratory No.99 Hongye Rd., Suzhou Industrial Park, Suzhou,215006, Jiangsu, China TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098 FCC Registration Number: 800392;

Documented By : Kathy Feng
(Adm. Specialist: Kathy Feng)

Reviewed By : Jack Zhang
(Senior Engineer: Jack Zhang)

Approved By : Harry Zhao
(Engineering Manager: Harry Zhao)

Laboratory Information

We, **QuieTek Corporation,** are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted(audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scope:

Taiwan R.O.C.	**:**	**BSMI, NCC, TAF**
USA	**:**	**FCC**
Japan	**:**	**VCCI**
China	**:**	**CNAS**

The related certificate for our laboratories about the test site and management system can be downloaded from QuieTek Corporation's Web Site :http://www.quietek.com/tw/ctg/cts/accreditations.htm
The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site : http://www.quietek.com/
If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

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TEL : 886-2-8601-3788 / FAX : 886-2-8601-3789 E-Mail : service@quietek.com

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History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
1652013R-RF-US-P09V01	V1.0	Initial Issued Report	Jun. 27, 2016
1652013R-RF-US-P09V01	V1.1	Add the note for why conducted emission is not tested at P32-40	Jul. 28, 2016

1. General Information

1.1. EUT Description

Product Name	AC1200 Wireless Dual Band Gigabit Access Point						
Brand Name	TP-LINK						
Model No.	EAP225						
EUT Voltage	AC 100-240V/ 50-60Hz						
Test Voltage	120V/60Hz						
Type of Modulation	OFDM						
Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps						
	802.11n: up to 300Mbps						
	802.11ac: up to 866.6Gbps						
Channel Control	Auto						
Transmit modes	☒	802.11a	☒	802.11n(20MHz)	☒	802.11n(40MHz)	
	☒	802.11ac(20MHz)	☒	802.11ac(40MHz)	☒	802.11ac(80MHz)	
Support Bands	☒	5150MHz~5250MHz	☐	Outdoor AP			
			☒	Indoor AP			
			☐	Fixed point-to-point AP			
			☐	Mobile and Portable Client			
	☐	5250MHz~5350MHz					
	☐	5470MHz~5725MHz	☐	With TDWR Channels			
			☐	Without TDWR Channels			
	☒	5725MHz~5850MHz					

1.2. Antenna information

Antenna Model	PIFA Antenna						
Antenna Manufacturer	TPlink						
Antenna Delivery	☐	1*TX+1*RX	☒	2*TX+2*RX	☐	3*TX+3*RX	
Antenna Technology	☐	SISO					
	☒	MIMO	☐	Basic methodology with NANT transmit antennas			
			☐	Sectorized antenna systems			
			☐	Cross-polarized antennas			
			☐	Unequal antenna gains, with equal transmit powers			
			☐	Spatial Multiplexing			
			☒	Cyclic Delay Diversity (CDD)			
Antenna Type	PIFA Antenna						

Antenna Gain

Antenna Technology	Ant Gain	Directional Gain	
		For Power	For PSD
☒ CDD	Ant0:5.12 Ant1: 5.22	5.17	8.18

1.3. Working Frequency of Each Channel:

802.11a/n/ac(20MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180 MHz	40	5200 MHz	44	5220 MHz	48	5240 MHz
149	5745 MHz	153	5765 MHz	157	5785 MHz	161	5805 MHz
165	5825MHz	N/A	N/A	N/A	N/A	N/A	N/A
802.11n/ac(40MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	151	5755 MHz	159	5795 MHz
802.11ac(80MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210 MHz	155	5775 MHz	N/A	N/A	N/A	N/A

1.4. Mode of Operation

QuieTek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: Transmit by 802.11a with CDD
Mode 2: Transmit by 802.11n(20MHz) with CDD
Mode 3: Transmit by 802.11n(40MHz) with CDD
Mode 4: Transmit by 802.11ac(20MHz) with CDD
Mode 5: Transmit by 802.11ac(40MHz) with CDD
Mode 6: Transmit by 802.11ac(80MHz) with CDD

Note 1: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

Note 2: For portable device, radiated tests was verified over X, Y, Z axis, and shown the worst case on this report.

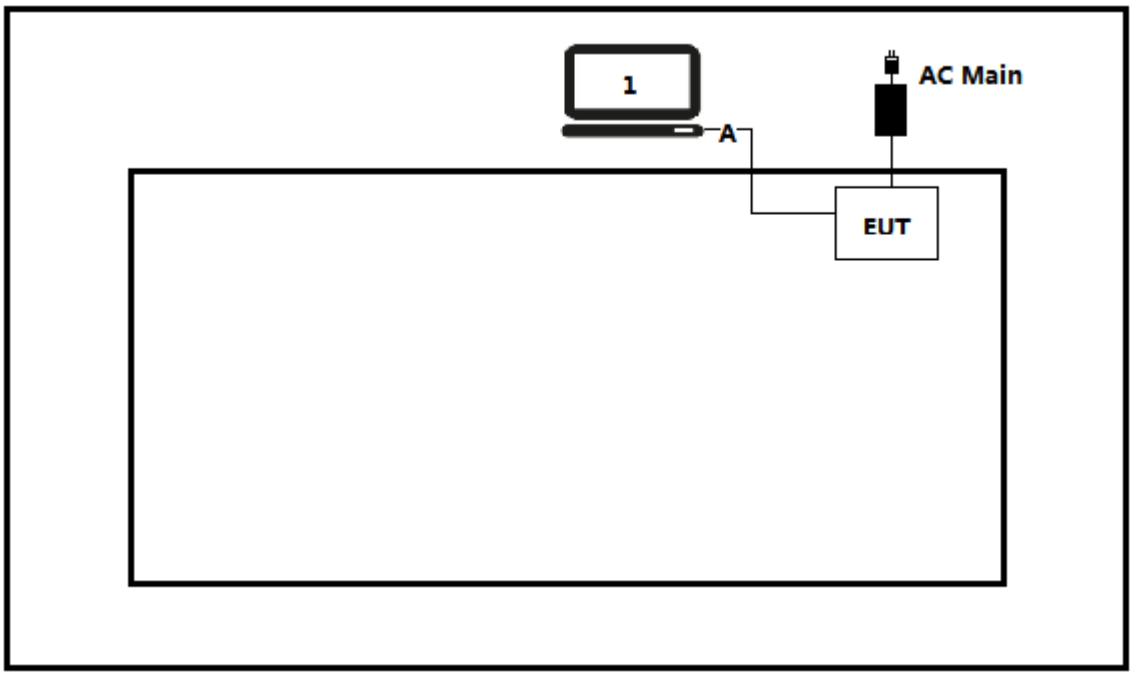
1.5. Tested System Details

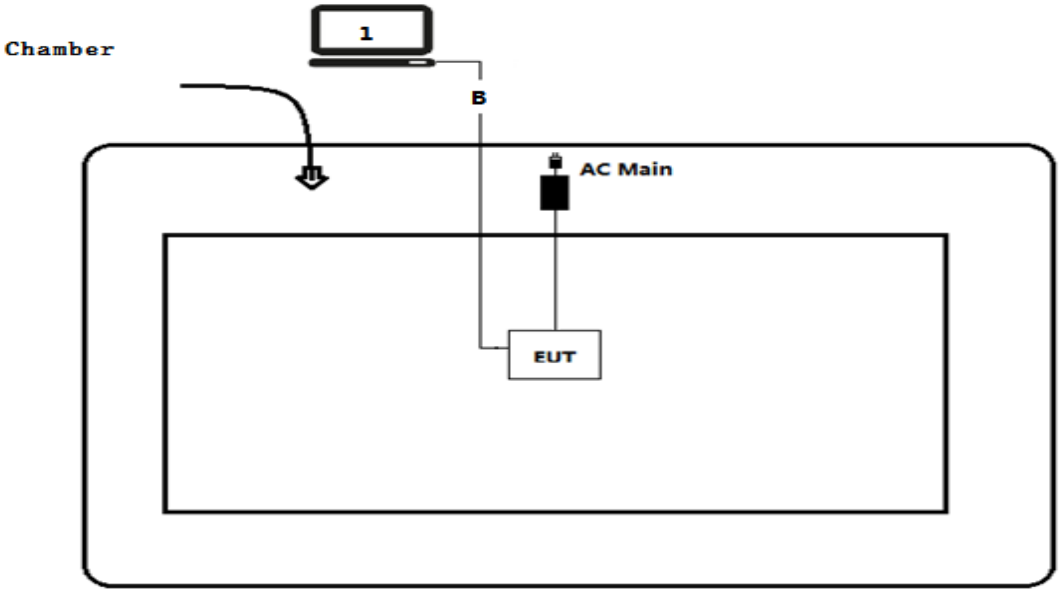
The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook	Lenovo	Think pad x220	SUA0600195	Non-shielded

1.6. Configuration of Tested System

Connection Diagram





Signal Cable Type		Signal cable Description
A	LAN Cable	Non-shielded, 15m
B	LAN Cable	Non-shielded, 15m

1.7. EUT Exercise Software

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of equipment.
3	Input RF commands, and set the test mode and channel, then press OK to start to continue transmit or receive.

2. Technical Test

2.1. Summary of Test Result

☒ No deviations from the test standards

☐ Deviations from the test standards as below description:

Performed Test Item	Normative References	Worse case mode	Limit	Result
Conducted Emission	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.207	802.11a	FCC 15.207	PASS
Radiated Emission	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.209	802.11a	FCC 15.209	PASS
Emission bandwidth and occupied bandwidth	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.407(a)	802.11ac(80MHz)	FCC 15.407(e)	PASS
6dB Emission Bandwidth	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.407(a)	802.11a	FCC 15.407(e)	PASS
Power Output	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.407(a)	802.11ac(20MHz)	FCC 15.407(a)	PASS
Peak Power Spectral Density	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.407(a)	802.11a	FCC 15.407(a)	PASS
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.205, 15.407(b)	802.11ac(20MHz)	FCC 15.407(b)	PASS
Frequency Stability	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.407(g)	5220MHz	Within the band	PASS

2.2. Test Frequency configuration:

Modulation Mode	Channel	Frequency	Channel	Frequency	Channel	Frequency
802.11a/n(20MHz) /ac(20MHz)	36	5180MHz	44	5220MHz	48	5240MHz
	149	5745MHz	157	5785MHz	165	5825MHz
802.11n(40MHz)/ ac(40MHz)	38	5190MHz	46	5230MHz	151	5755MHz
	159	5795MHz	N/A	N/A	N/A	N/A
802.11ac(80MHz)	42	5210MHz	155	5775MHz	N/A	N/A

2.3. Power Parameter Value of the test software

Test Mode	Test Channel	Power Setting (With CDD)
802.11a	5180	20
	5220	21
	5240	21
	5745	28
	5785	30
	5825	28
802.11n(20MHz)	5180	20
	5220	21
	5240	21
	5745	26
	5785	30
	5825	28
802.11n(40MHz)	5190	17
	5230	22
	5755	23
	5795	26
802.11ac(20MHz)	5180	19
	5220	21
	5240	21
	5745	28
	5785	30
	5825	28
802.11ac(40MHz)	5190	17
	5230	23
	5755	24
	5795	26
802.11ac(80MHz)	5210	16
	5775	20

2.4. Power vs Data Rate

MCS Index for 802.11n	Spatial Streams	Data Rate (Mbps)						
		802.11b	802.11g	802.11a	20MHz Bandwidth		40MHz Bandwidth	
					800ns GI	400ns GI	800ns GI	400ns GI
0	1	1	6	6	6.5	7.2	13.5	15.0
1	1	2	9	9	13.0	14.4	27.0	30.0
2	1	5.5	12	12	19.5	21.7	40.5	45.0
3	1	11	18	18	26.0	28.9	54.0	60.0
4	1	---	24	24	39.0	43.3	81.0	90.0
5	1	---	36	36	52.0	57.8	108.0	120.0
6	1	---	48	48	58.5	65.0	121.5	135.0
7	1	---	54	54	65.0	72.2	135.0	150.0
8	2	---	---	---	13.0	14.4	27.0	30.0
9	2	---	---	---	26.0	28.9	54.0	60.0
10	2	---	---	---	39.0	43.3	81.0	90.0
11	2	---	---	---	52.0	57.8	108.0	120.0
12	2	---	---	---	78.0	86.7	162.0	180.0
13	2	---	---	---	104.0	115.6	216.0	240.0
14	2	---	---	---	117.0	130.0	243.0	270.0
15	2	---	---	---	130.0	144.0	270.0	300.0

Note 1 : The blue form is the maximum power data rate

Spatial Streams (Note1)	MCS Index	Modulation type	Coding rate	Data Rate(Mb/s)							
				20MHz		40MHz		80MHz		160MHz	
				Guard Interval		Guard Interval		Guard Interval		Guard Interval	
				800ns	400ns	800ns	400ns	800ns	400ns	800ns	400ns
1	0	BPSK	1/2	6.5	7.2	13.5	15	29.3	32.5	58.5	65
	1	QPSK	1/2	13	14.4	27	30	58.5	65	117	130
	2	QPSK	3/4	19.5	21.7	40.5	45	87.8	97.5	175.5	195
	3	16-QAM	1/2	26	28.9	54	60	117	130	234	260
	4	16-QAM	3/4	39	43.3	81	90	175.5	195	351	390
	5	64-QAM	2/3	52	57.8	108	120	234	260	468	520
	6	64-QAM	3/4	58.5	65	121.5	135	263.3	292.5	526.5	585
	7	64-QAM	5/6	65	72.2	135	150	292.5	325	585	650
	8	256-QAM	3/4	78	86.7	162	180	351	390	702	780
	9	256-QAM	5/6	N/A	N/A	180	200	390	433.3	780	866.7
2	0	BPSK	1/2	13	14.4	27	30	58.6	65	117	130
	1	QPSK	1/2	26	28.8	54	60	117	130	234	260
	2	QPSK	3/4	39	43.4	81	90	175.6	195	351	390
	3	16-QAM	1/2	52	57.8	108	120	234	260	468	520
	4	16-QAM	3/4	78	86.6	162	180	351	390	702	780
	5	64-QAM	2/3	104	115.6	216	240	468	520	936	1040
	6	64-QAM	3/4	117	130	243	270	526.6	585	1053	1170
	7	64-QAM	5/6	130	144.4	270	300	585	650	1170	1300
	8	256-QAM	3/4	156	173.4	324	360	702	780	1404	1560
	9	256-QAM	5/6	N/A	N/A	360	400	780	866.6	1560	1733.4

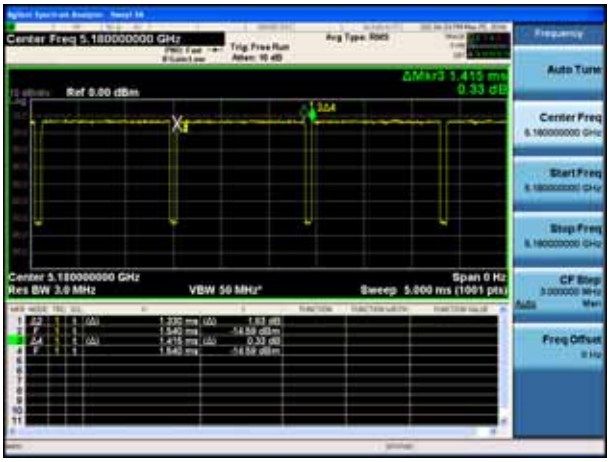
Note 1 : The blue form is the maximum power data rate

2.5. Duty Cycle

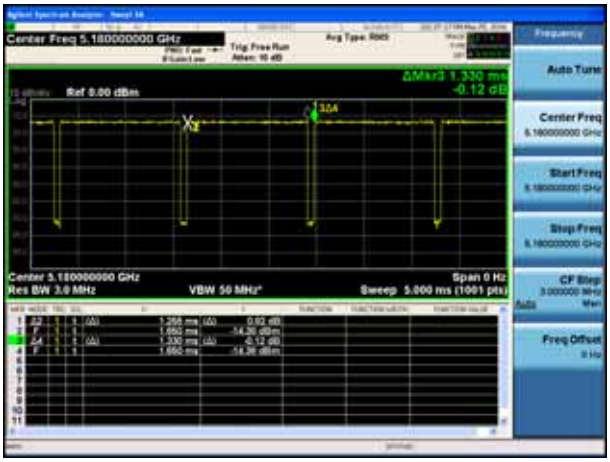
Test Mode	Tx On (ms)	T (ms)	VBW	Tx On + Tx Off (ms)	Duty Cycle
802.11a	1.330	1.330	751Hz	1.415	93.99%
802.11 n(20MHz)	1.255	1.255	796Hz	1.330	94.36%
802.11ac(20MHz)	0.626	0.626	1.59kHz	0.699	89.56%
802.11n(40MHz)	1.255	1.255	790Hz	1.340	93.66%
802.11ac(40MHz)	0.629	0.629	1.58KHz	0.709	88.72%
802.11ac(80MHz)	0.315	0.315	3.17KHz	0.386	81.61%

Note 1: T means the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Note 2: According to KDB 789033 when test for Radiated Emission Band Edge and Radiated Emission,VBW 1/T will be used.

802.11a with CDD



802.11n(20MHz) with CDD



802.11n(40MHz) with CDD

802.11ac(20MHz) with CDD

802.11ac(40MHz) with CDD	802.11ac(80MHz) with CDD
	

2.6. Test Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	21
Humidity (%RH)	25-75	50
Barometric pressure (mbar)	860-1060	950-1000

2.7. Uncertainty

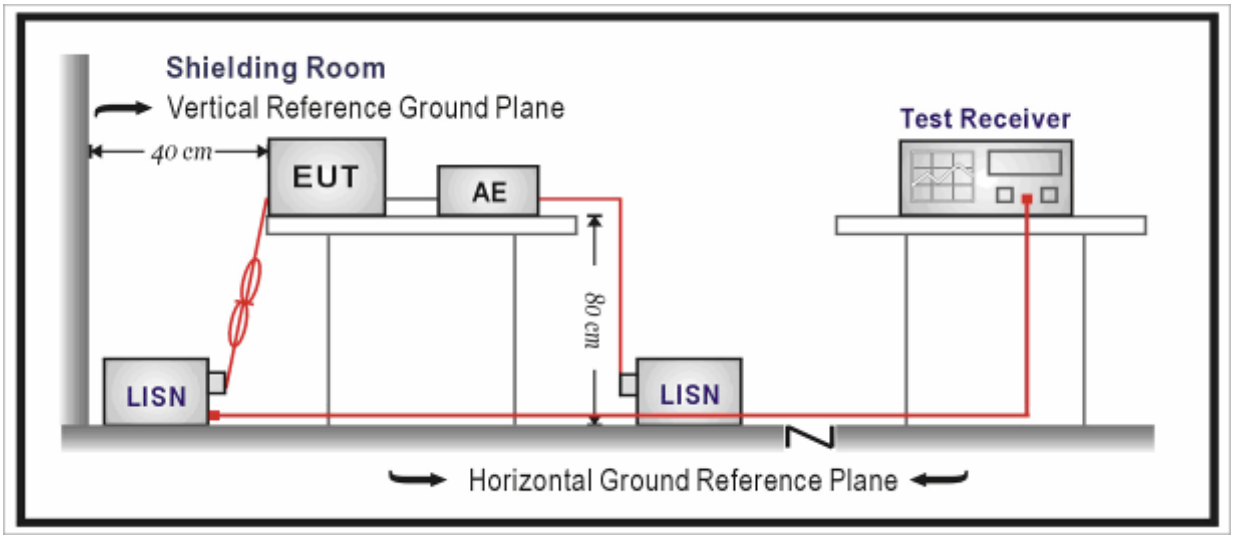
Test Items	Uncertainty
AC Power Line Conducted Emission	2.02dB
Radiated Emission	Below 1GHz 3.8 dB
	Above 1GHz 3.9 dB
RF Antenna Port Conducted Emission	1.27dB
Radiated Emission Band Edge	3.9dB
Occupied Bandwidth	1kHz
Power Spectral Density	1.27dB
Frequency Stability	100 Hz

3. Conducted Emission

3.1. Test Equipment

Conducted Emission / TR-1					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100726	2016.03.29	2017.03.28
Two-Line V-Network	R&S	ENV216	100043	2016.03.29	2017.03.28
Two-Line V-Network	R&S	ENV216	100044	2015.09.17	2016.09.16
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2016.03.02	2017.03.01
50ohm Termination	SHX	TF2	07081401	2015.09.17	2016.09.16
Temperature/Humidity Meter	zhichen	ZC1-2	TR1-TH	2016.01.09	2017.01.08
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

3.2. Test Setup



3.3. Limit

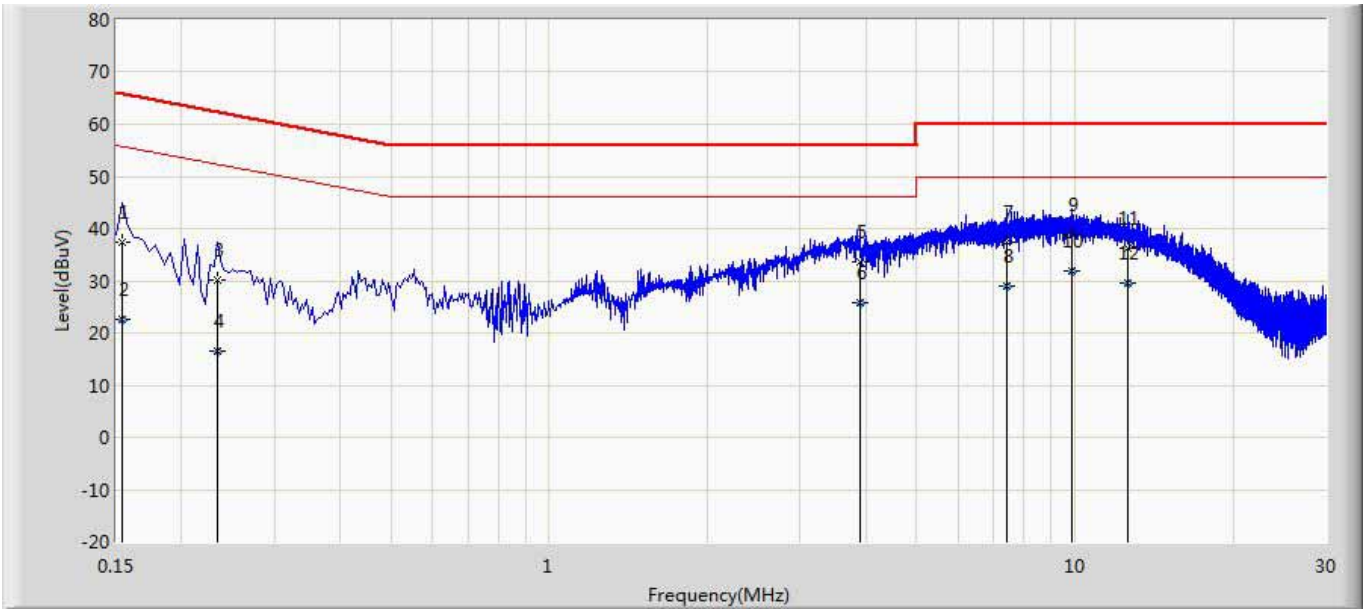
Frequency (MHz)	QP (dB V)	AV (dB V)
0.15 - 0.50	66 – 56	56 – 46
0.50 - 5.0	56	46
5.0 - 30	60	50
Note 1: The lower limit shall apply at the transition frequencies. Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.		

3.4. Test Procedure

Test Method			
	References Rule	Chapter	Item
☒	ANSI C63.10-2013	6.2	Standard test method for ac power-line conducted emissions from unlicensed wireless devices
☒	ANSI C63.4-2014	7	AC power-line conducted emission measurements

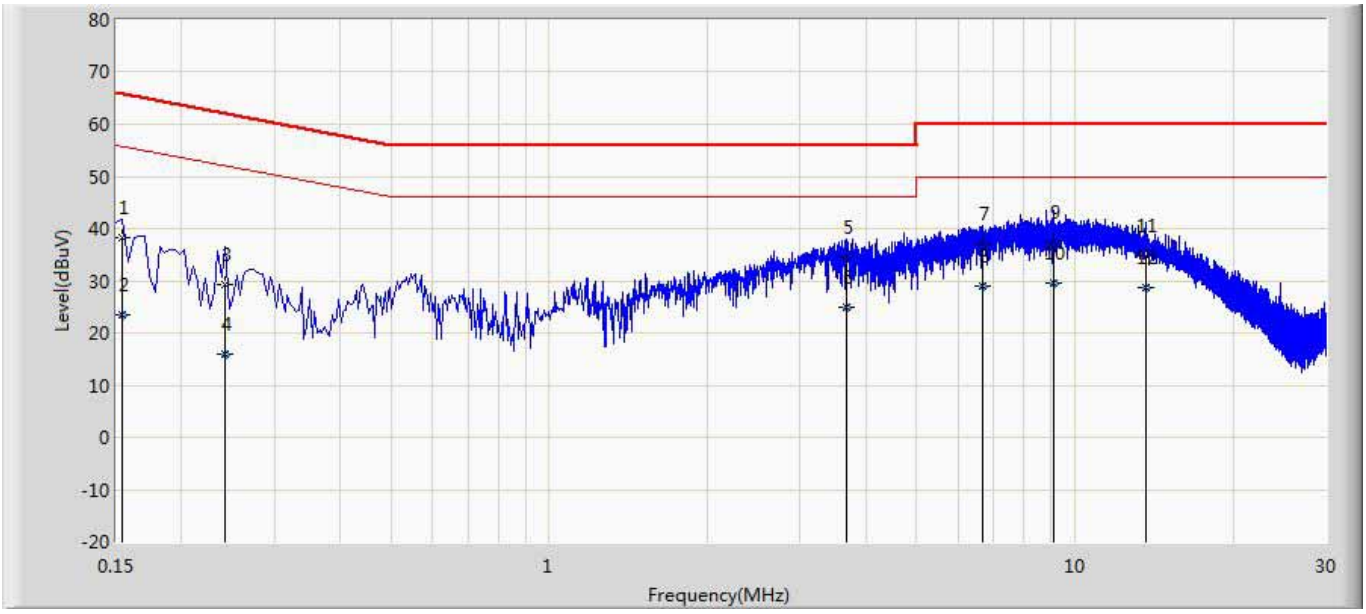
3.5. Test Result

Engineer: Scott	
Site: TR1	Time: 2016/05/03 - 09:05
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101044(0.009-30MHz)	Polarity: Line
EUT: AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.154	37.466	27.733	-28.315	65.781	9.673	0.060	0.000	QP
2		0.154	22.573	12.840	-33.208	55.781	9.673	0.060	0.000	AV
3		0.234	30.016	20.306	-32.291	62.307	9.650	0.060	0.000	QP
4		0.234	16.663	6.953	-35.644	52.307	9.650	0.060	0.000	AV
5		3.902	33.645	23.845	-22.355	56.000	9.660	0.140	0.000	QP
6		3.902	25.755	15.955	-20.245	46.000	9.660	0.140	0.000	AV
7		7.414	37.248	27.338	-22.752	60.000	9.700	0.210	0.000	QP
8		7.414	28.935	19.025	-21.065	50.000	9.700	0.210	0.000	AV
9		9.882	38.700	28.710	-21.300	60.000	9.730	0.260	0.000	QP
10	*	9.882	31.975	21.985	-18.025	50.000	9.730	0.260	0.000	AV
11		12.598	36.370	26.280	-23.630	60.000	9.770	0.320	0.000	QP
12		12.598	29.434	19.344	-20.566	50.000	9.770	0.320	0.000	AV

Engineer: Scott	
Site: TR1	Time: 2016/05/03 - 09:11
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101044(0.009-30MHz)	Polarity: Neutral
EUT: AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.154	38.343	28.610	-27.438	65.781	9.673	0.060	0.000	QP
2		0.154	23.442	13.709	-32.339	55.781	9.673	0.060	0.000	AV
3		0.242	29.149	19.429	-32.878	62.027	9.660	0.060	0.000	QP
4		0.242	16.040	6.320	-35.987	52.027	9.660	0.060	0.000	AV
5		3.674	34.593	24.803	-21.407	56.000	9.660	0.130	0.000	QP
6		3.674	24.981	15.191	-21.019	46.000	9.660	0.130	0.000	AV
7		6.662	37.173	27.283	-22.827	60.000	9.690	0.200	0.000	QP
8		6.662	29.084	19.194	-20.916	50.000	9.690	0.200	0.000	AV
9		9.090	37.271	27.301	-22.729	60.000	9.720	0.250	0.000	QP
10	*	9.090	29.696	19.726	-20.304	50.000	9.720	0.250	0.000	AV
11		13.606	34.795	24.655	-25.205	60.000	9.800	0.340	0.000	QP
12		13.606	28.646	18.506	-21.354	50.000	9.800	0.340	0.000	AV

4. Radiated Emission

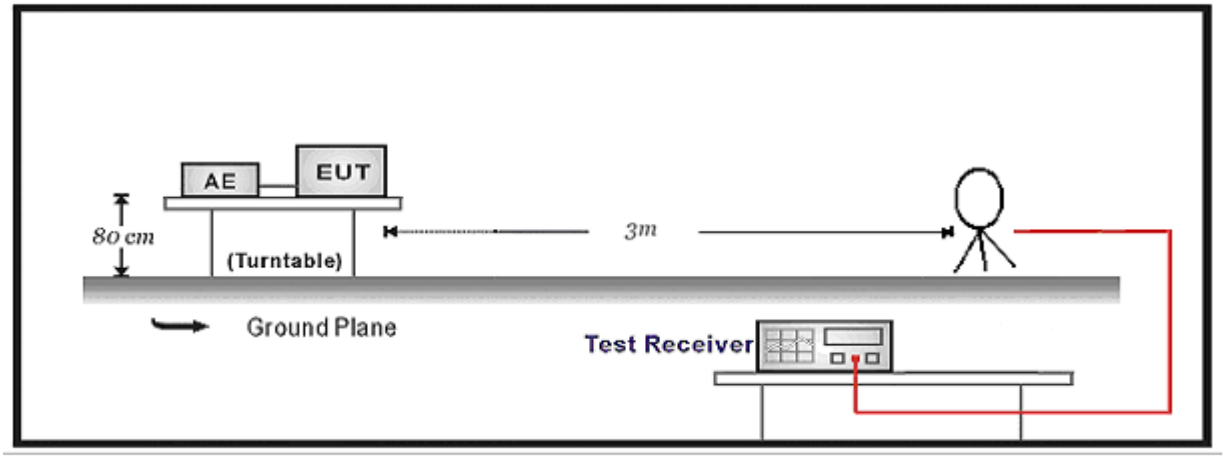
4.1. Test Equipment

Radiated Emission / AC-2					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100573	2016.03.29	2017.03.28
Loop Antenna	R&S	HFH2-Z2	833799/003	2015.11.18	2016.11.17
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2015.10.16	2016.10.15
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2016.03.02	2017.03.01
Temperature/Humidity Meter	Zhichen	ZC1-2	AC2-TH	2016.01.09	2017.01.08

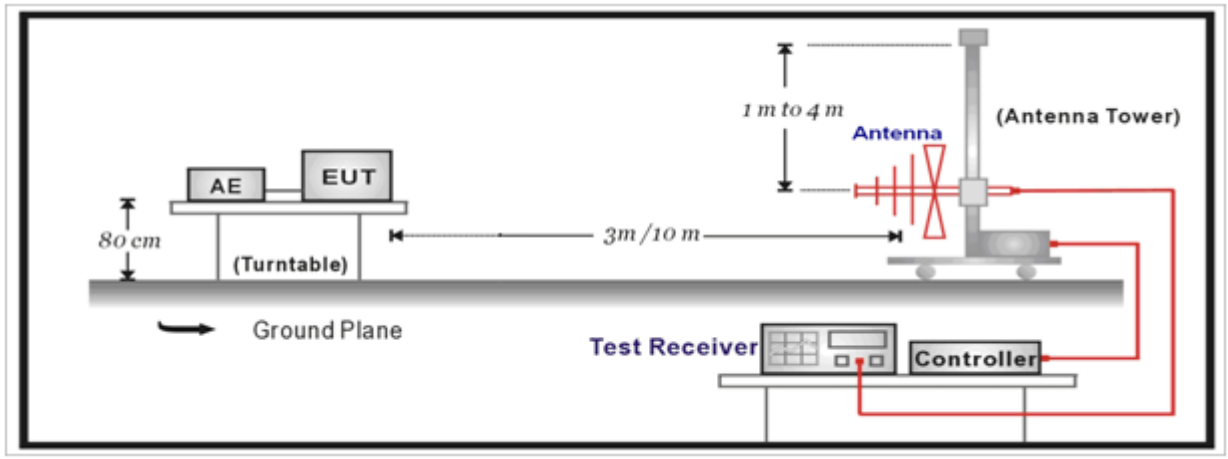
Radiated Emission / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2016.01.08	2017.01.07
Preamplifier	Miteq	NSP1800-25	1364185	2016.05.06	2017.05.05
Preamplifier	QuieTek	AP-040G	CHM-0906001	2016.05.06	2017.05.05
DRG Horn	ETS-Lindgren	3117	00123988	2016.01.22	2017.01.21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2015.11.25	2016.11.24
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2016.03.02	2017.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2016.03.02	2017.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C3	2016.03.02	2017.03.01
EMI Receiver	Agilent	N9038A	MY51210196	2016.06.10	2017.06.09
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2016.01.09	2017.01.08
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

4.2. Test Setup

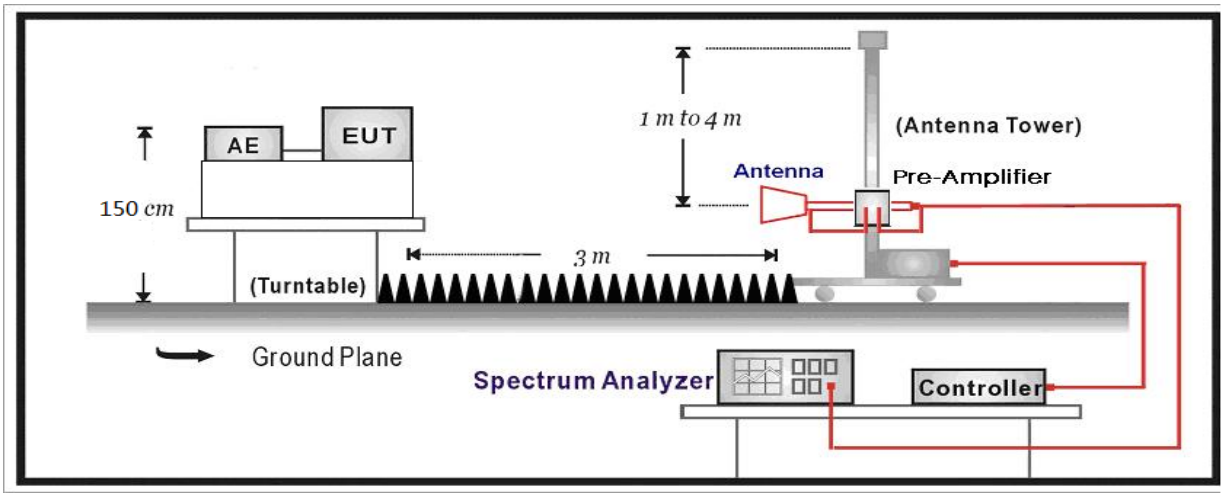
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limit

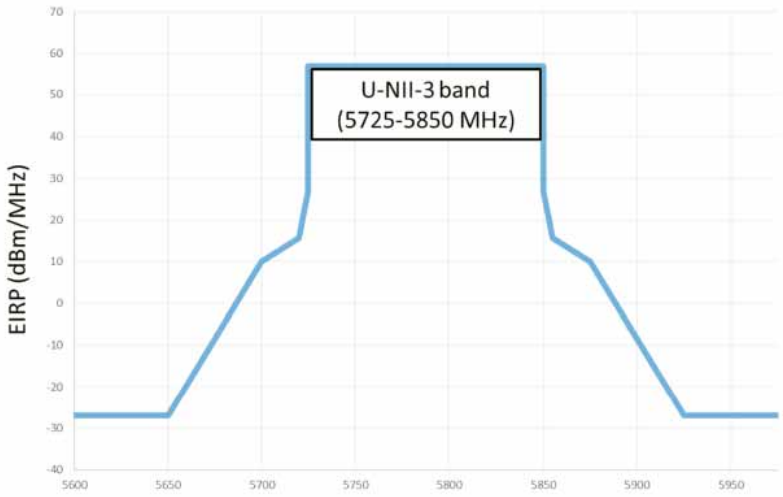
FCC Part 15 Subpart C Paragraph 15.209 (Restricted Band Emissions Limit)		
Frequency (MHz)	Distance (m)	Level (dB V/m)
0.009-0.490	300	2400/F(kHz)
0.490-1.705	30	24000/F(kHz)
1.705-30.0	30	30
30-88	3	100**
88-216	3	150**
216-960	3	200**
Above 960	3	500

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

FCC Part 15 Subpart C Paragraph 15.205 (Restricted Band)			
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
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
8.81425 – 8.81475	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	
13.36 – 13.41			

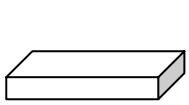
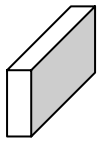
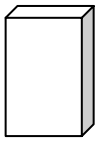
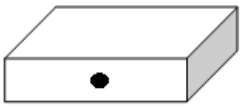
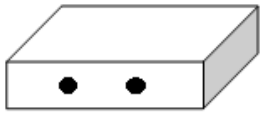
FCC Part 15 Subpart C Paragraph 15.407(5)(b) (Unrestricted Band Emissions Limit)		
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dB V/m)
5150 - 5250	-27	68.3
5250 - 5350	-27	68.3
5470 - 5725	-27	68.3

FCC 16-24-A1	
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)
5725 - 5825	

4.4. Test Procedure

Test Method					
	References Rule			Chapter	Description
☐	ANSI C63.10			12.7.3	Emissions in non-restricted frequency bands
☒	ANSI C63.10			12.7.2	Emissions in restricted frequency bands
	☒	ANSI C63.10		12.7.5	Radiated emission measurements
	☒	ANSI C63.10		12.7.6	Procedure for peak unwanted emissions measurements above 1000 MHz
	☒	ANSI C63.10		12.7.7	Procedures for average unwanted emissions measurements above 1000 MHz
		☐	ANSI C63.10	12.7.7.2	Method AD (average detection)—primary method
		☒	ANSI C63.10	12.7.7.3	Method VB-A (Alternative)
	☒	ANSI C63.10		6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
	☒	ANSI C63.10		6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	☒	ANSI C63.10		6.6	Radiated emissions from unlicensed wireless devices above 1 GHz
☐	FCC KDB 789033 D02v01r02			G.2	Unwanted Emissions that fall Outside of the Restricted Bands
☐	FCC KDB 789033 D02v01r02			G.1	Unwanted Emissions in the Restricted Bands
	☐	FCC KDB 789033 D02v01r02		G.4	Procedure for Unwanted Emissions Measurements below 1000 MHz
	☐	FCC KDB 789033 D02v01r02		G.5	Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz
	☐	FCC KDB 789033 D02v01r02		G.6	Procedures for Average Unwanted Emissions Measurements above 1000 MHz
		☐	FCC KDB 789033 D02v01r02	G.6.c	Method AD (Average detection)—primary method
		☒	FCC KDB 789033 D02v01r02	G.6.d	Method VB (Averaging using reduced video bandwidth): Alternative method.

4.5. EUT test Axis definition

<table>
<tr><td>Item</td><td colspan="4">Radiated Emission</td></tr>
<tr><td rowspan="4">Device Category</td><td>☒</td><td colspan="3">Indoor use</td></tr>
<tr><td>☐</td><td colspan="3">Outdoor use</td></tr>
<tr><td>☐</td><td colspan="3">Fix position use</td></tr>
<tr><td>☐</td><td colspan="3">Mobile position use</td></tr>
<tr><td>Test mode</td><td colspan="4">Mode 1-6</td></tr>
<tr><td rowspan="11">Test method</td><td>☒</td><td colspan="3">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td>Z Axis</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Worst Axis ☐</td><td>Worst Axis ☒</td><td>Worst Axis ☐</td></tr>
<tr><td>☐</td><td colspan="3">Conducted</td></tr>
<tr><td>☐</td><td colspan="3">Chain 0</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 0</td><td colspan="2">Chain 1</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 0</td><td>Chain 1</td><td>Chain 2</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
</table>

4.6. Test Result

Product Name	:	AC1200 Wireless Dual Band Gigabit Access Point	Power	:	AC 120V/60Hz
Test Mode	:	Mode 1: Transmit by 802.11a with CDD	Test Site	:	AC-5

Chain	CH	Antenna Polarity	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measured Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
Ant 0+1	36	H	10360	41.2	4.0	45.2	54(Note3)	8.8	PK
		H	15540	38.2	10.2	48.4	54(Note3)	5.6	PK
		V	10360	43.8	4.0	47.8	54(Note3)	6.2	PK
		V	15540	38.8	10.2	49.0	54(Note3)	5.0	PK
	44	H	10401	47.7	4.3	52.0	54(Note3)	2.0	PK
		H	15594	38.9	10.2	49.1	54(Note3)	4.9	PK
		V	10401	45.5	4.3	49.8	54(Note3)	4.2	PK
		V	15603	39.9	10.3	50.2	54(Note3)	3.8	PK
	48	H	10486	43.1	4.5	47.6	54(Note3)	6.4	PK
		H	15720	39.5	10.5	50.0	54(Note3)	4.0	PK
		V	10486	45.9	4.5	50.4	54(Note3)	3.6	PK
		V	15713.5	39.7	10.5	50.2	54(Note3)	3.8	PK
	149	H	11490	45.4	5.1	50.5	54(Note3)	3.5	PK
		H	17235	37.6	11.1	48.7	54(Note3)	5.3	PK
		V	11490	53.5	5.1	58.6	74	15.4	PK
		V	11490	43.4	5.1	48.5	54	5.5	AV
		V	17235	37.7	11.1	48.8	54(Note3)	5.2	PK
	157	H	11565.5	46.5	5.2	51.7	54(Note3)	2.3	PK
		H	17362.5	36.1	12.1	48.2	54(Note3)	5.8	PK
		V	11565.5	53.4	5.2	58.6	74	15.4	PK
		V	11565.5	44.0	5.3	49.3	54	4.7	AV
		V	17345.5	36.3	12.1	48.4	54(Note3)	5.6	PK
	165	H	11650.5	45.0	5.3	50.3	54(Note3)	3.7	PK
		H	17475	39.3	12.9	52.2	54(Note3)	1.8	PK
		V	11650.5	53.1	5.5	58.6	74	15.4	PK
		V	11650.5	43.3	5.5	48.8	54	5.2	AV
		V	17475	40.5	12.9	53.4	54(Note3)	0.6	PK

1. Measured Level = Reading Level + Factor.
2. The test frequency range, 9kHz~30MHz, 18GHz~40GHz, both of the worst case are at least 6dB below the limits, therefore no data appear in the report.
3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.
4. As the radiated emission was performed, so conducted emission was not tested.

Product Name	:	AC1200 Wireless Dual Band Gigabit Access Point	Power	:	AC 120V/60Hz
Test Mode	:	Mode 2: Transmit by 802.11n(20MHz) with CDD	Test Site	:	AC-5

Chain	CH	Antenna Polarity	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measured Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
Ant 0+1	36	H	10360	41.3	4.0	45.3	54(Note3)	8.7	PK
		H	15540	38.7	10.2	48.9	54(Note3)	5.1	PK
		V	10360	46.2	3.9	50.1	54(Note3)	3.9	PK
		V	15540	39.4	10.2	49.6	54(Note3)	4.4	PK
	44	H	10401	42.2	4.3	46.5	54(Note3)	7.5	PK
		H	15594	39.1	10.3	49.4	54(Note3)	4.6	PK
		V	10401	45.9	4.3	50.2	54(Note3)	3.8	PK
		V	15603	38.8	10.2	49.0	54(Note3)	5.	PK
	48	H	10486	43.3	4.5	47.8	54(Note3)	6.2	PK
		H	15720	39.8	10.6	50.4	54(Note3)	3.6	PK
		V	10486	46.5	4.5	51.0	54(Note3)	3.0	PK
		V	15713.5	40.7	10.5	51.2	54(Note3)	2.8	PK
	149	H	11490	43.1	5.1	48.2	54(Note3)	5.8	PK
		H	17235	37.0	11.1	48.1	54(Note3)	5.9	PK
		V	11490	50.9	5.1	56.0	74	18.0	PK
		V	11490	40.9	5.1	46.0	54	8.0	AV
		V	17235	38.4	11.1	49.5	54(Note3)	4.5	PK
	157	H	11565.5	45.2	5.3	50.5	54(Note3)	3.5	PK
		H	17362.5	36.9	12.1	49.0	54(Note3)	5.0	PK
		V	11565.5	52.7	5.4	58.1	74	15.9	PK
		V	11565.5	44.2	5.3	49.5	54	4.5	AV
		V	17345.5	36.9	12.1	49.0	54(Note3)	5.0	PK
	165	H	11650.5	47.3	5.3	52.6	54(Note3)	1.4	PK
		H	17475	39.4	12.9	52.3	54(Note3)	1.7	PK
		V	11650.5	51.8	5.3	57.1	74	16.9	PK
		V	11650.5	42.1	5.3	47.4	54	6.6	AV
		V	17475	39.9	5.4	45.3	54(Note3)	8.7	PK

1. Measured Level = Reading Level + Factor.
2. The test frequency range, 9kHz~30MHz, 18GHz~40GHz, both of the worst case are at least 6dB below the limits, therefore no data appear in the report.
3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.
4. As the radiated emission was performed, so conducted emission was not tested.

Product Name	:	AC1200 Wireless Dual Band Gigabit Access Point	Power	:	AC 120V/60Hz
Test Mode	:	Mode 3: Transmit by 802.11n40(MHz) with CDD	Test Site	:	AC-5

Chain	CH	Antenna Polarity	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measured Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
Ant 0+1	38	H	10380	41.3	4.3	45.6	54(Note3)	8.4	PK
		H	15570	38.3	10.7	49.0	54(Note3)	5.0	PK
		V	10380	41.3	4.3	45.6	54(Note3)	8.4	PK
		V	15570	38.3	10.7	49.0	54(Note3)	5.0	PK
	46	H	10460.5	43.4	4.6	48.0	54(Note3)	6.0	PK
		H	15679.5	38.4	11.4	49.8	54(Note3)	4.2	PK
		V	10452	43.5	4.6	48.1	54(Note3)	5.9	PK
		V	15679.5	38.8	11.4	50.2	54(Note3)	3.8	PK
	151	H	11510	42.3	4.8	47.1	54(Note3)	6.9	PK
		H	17265	37.9	12.6	50.5	54(Note3)	3.5	PK
		V	11510	46.6	5.0	51.6	54(Note3)	2.4	PK
		V	17265	37.8	12.5	50.3	54(Note3)	3.7	PK
	159	H	11590	42.6	5.6	48.2	54(Note3)	5.8	PK
		H	17385	38.6	13.5	52.1	54(Note3)	1.9	PK
		V	11590	47.8	6.0	53.8	54(Note3)	0.2	PK
		V	17385	38.4	13.6	52.0	54(Note3)	2.0	PK

1. Measured Level = Reading Level + Factor.
2. The test frequency range, 9kHz~30MHz, 18GHz~40GHz, both of the worst case are at least 6dB below the limits, therefore no data appear in the report.
3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.
4. As the radiated emission was performed, so conducted emission was not tested.

Product Name	:	AC1200 Wireless Dual Band Gigabit Access Point	Power	:	AC 120V/60Hz
Test Mode	:	Mode 4: Transmit by 802.11ac(20MHz) with CDD	Test Site	:	AC-5

Chain	CH	Antenna Polarity	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measured Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
Ant 0+1	36	H	10360	43.2	4.0	47.2	54(Note3)	6.8	PK
		H	15540	38.6	10.2	48.8	54(Note3)	5.2	PK
		V	10360	42.3	4.0	46.3	54(Note3)	7.7	PK
		V	15540	39.0	10.2	49.2	54(Note3)	4.8	PK
	44	H	10401	43.0	4.4	47.4	54(Note3)	6.6	PK
		H	15594	39.0	10.2	49.2	54(Note3)	4.8	PK
		V	10401	45.2	4.3	49.5	54(Note3)	4.5	PK
		V	15603	38.9	10.3	49.2	54(Note3)	4.8	PK
	48	H	10486	43.0	4.5	47.5	54(Note3)	6.5	PK
		H	15720	39.4	10.6	50.0	54(Note3)	4.0	PK
		V	10486	45.5	4.5	50.0	54(Note3)	4.0	PK
		V	15713.5	39.3	10.6	49.9	54(Note3)	4.1	PK
	149	H	11490	44.6	5.1	49.7	54(Note3)	4.3	PK
		H	17235	38.0	11.1	49.1	54(Note3)	4.9	PK
		V	11490	53.0	5.0	58.0	74	16.0	PK
		V	11490	43.1	5.0	48.1	54	5.9	AV
		V	17235	38.1	11.1	49.2	54(Note3)	4.8	PK
	157	H	11565.5	45.5	5.3	50.8	54(Note3)	3.2	PK
		H	17362.5	36.5	12.1	48.6	54(Note3)	5.4	PK
		V	11565.5	52.7	5.4	58.1	74	15.9	PK
		V	11565.5	43.3	5.4	48.7	54	5.3	AV
		V	17345.5	36.3	12.0	48.3	54(Note3)	5.7	PK
	165	H	11650.5	45.4	5.3	50.7	54(Note3)	3.3	PK
		H	17475	39.2	12.9	52.1	54(Note3)	1.9	PK
		V	11650.5	51.1	5.3	56.4	74	17.6	PK
		V	11650.5	45.7	5.3	51.0	54	3.0	AV
		V	17475	39.1	12.9	52.0	54(Note3)	2.0	PK

1. Measured Level = Reading Level + Factor.
2. The test frequency range, 9kHz~30MHz, 18GHz~40GHz, both of the worst case are at least 6dB below the limits, therefore no data appear in the report.
3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.
4. As the radiated emission was performed, so conducted emission was not tested.

Product Name	:	AC1200 Wireless Dual Band Gigabit Access Point	Power	:	AC 120V/60Hz
Test Mode	:	Mode5: Transmit by 802.11ac(40MHz) with CDD	Test Site	:	AC-5

Chain	CH	Antenna Polarity	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measured Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
Ant 0+1	38	H	10380	41.4	4.3	45.7	54(Note3)	8.3	PK
		H	15570	37.9	10.7	48.6	54(Note3)	5.4	PK
		V	10380	41.9	4.3	46.2	54(Note3)	7.8	PK
		V	15570	39.0	10.7	49.7	54(Note3)	4.3	PK
	46	H	10460.5	43.8	4.6	48.4	54(Note3)	5.6	PK
		H	15679.5	38.5	11.5	50.0	54(Note3)	4.0	PK
		V	10452	44.9	4.5	49.4	54(Note3)	4.6	PK
		V	15679.5	38.8	11.4	50.2	54(Note3)	3.8	PK
	151	H	11510	42.7	4.8	47.5	54(Note3)	6.5	PK
		H	17265	37.4	12.6	50.0	54(Note3)	4.0	PK
		V	11510	47.0	4.8	51.8	54(Note3)	2.2	PK
		V	17265	37.7	12.5	50.2	54(Note3)	3.8	PK
	159	H	11590	42.9	5.7	48.6	54(Note3)	5.4	PK
		H	17385	38.8	13.6	52.4	54(Note3)	1.6	PK
		V	11590	42.6	6.0	48.6	54(Note3)	5.4	PK
		V	17385	38.4	13.6	52.0	54(Note3)	2.0	PK

1. Measured Level = Reading Level + Factor.
2. The test frequency range, 9kHz~30MHz, 18GHz~40GHz, both of the worst case are at least 6dB below the limits, therefore no data appear in the report.
3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.
4. As the radiated emission was performed, so conducted emission was not tested.

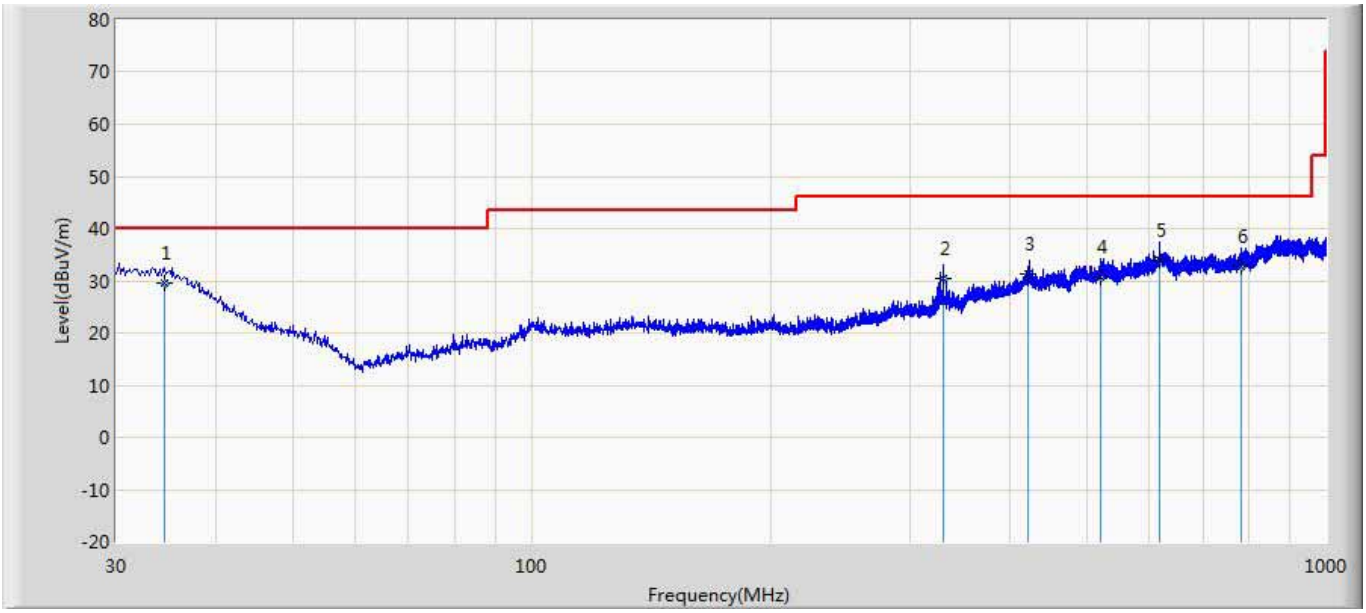
Product Name	:	AC1200 Wireless Dual Band Gigabit Access Point	Power	:	AC 120V/60Hz
Test Mode	:	Mode 6: Transmit by 802.11ac(80MHz) with CDD	Test Site	:	AC-5

Chain	CH	Antenna Polarity	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measured Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
Ant 0+1	42	H	10420	41.9	4.2	46.1	54(Note3)	7.9	PK
		H	15630	38.1	10.8	48.9	54(Note3)	5.1	PK
		V	10420	41.7	4.1	45.8	54(Note3)	8.2	PK
		V	15630	38.5	10.9	49.4	54(Note3)	4.6	PK
	155	H	11550	42.1	5.1	47.2	54(Note3)	6.8	PK
		H	17325	37.2	11.3	48.5	54(Note3)	5.5	PK
		V	11550	42.5	5.0	47.5	54(Note3)	6.5	PK
		V	17325	38.3	11.4	49.7	54(Note3)	4.3	PK

1. Measured Level = Reading Level + Factor.
2. The test frequency range, 9kHz~30MHz, 18GHz~40GHz, both of the worst case are at least 6dB below the limits, therefore no data appear in the report.
3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.
4. As the radiated emission was performed, so conducted emission was not tested.

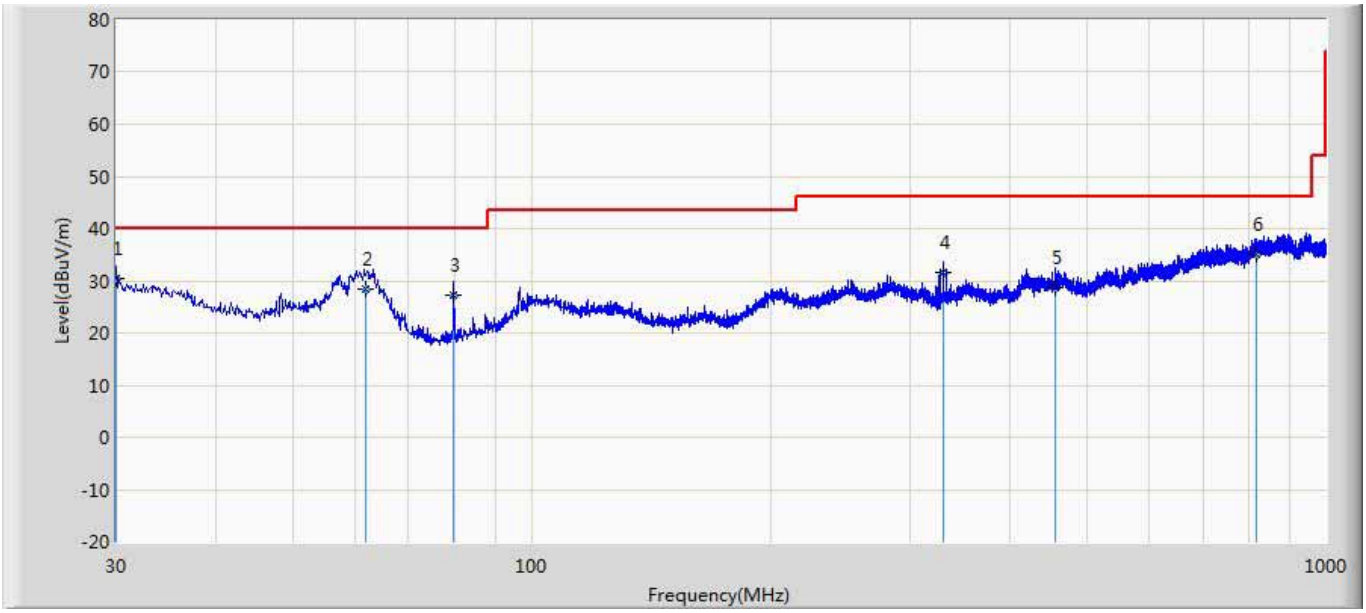
The worst case of Radiated Emission below 1GHz:

Site: AC2	Time: 2016/05/12
Limit: FCC_Part15.209_RE(3m)_ClassB	Margin: 0
Probe: AC2_10M(30-1000M)20150408	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1	*	34.450	29.551	35.858	-10.449	40.000	16.219	0.636	23.162	100	199	QP
2		329.701	30.459	37.277	-15.541	46.000	14.172	1.970	22.960	200	50	QP
3		422.601	31.333	35.541	-14.667	46.000	16.452	2.260	22.920	100	115	QP
4		521.300	30.680	32.664	-15.320	46.000	18.311	2.475	22.770	100	50	QP
5		618.600	33.805	34.689	-12.195	46.000	19.000	2.728	22.612	200	14	QP
6		783.601	32.750	32.147	-13.250	46.000	19.935	3.089	22.421	200	152	QP

Site: AC2	Time: 2016/05/12
Limit: FCC_Part15.209_RE(3m)_ClassB	Margin: 0
Probe: AC2_10M(30-1000M)20150408	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 1	



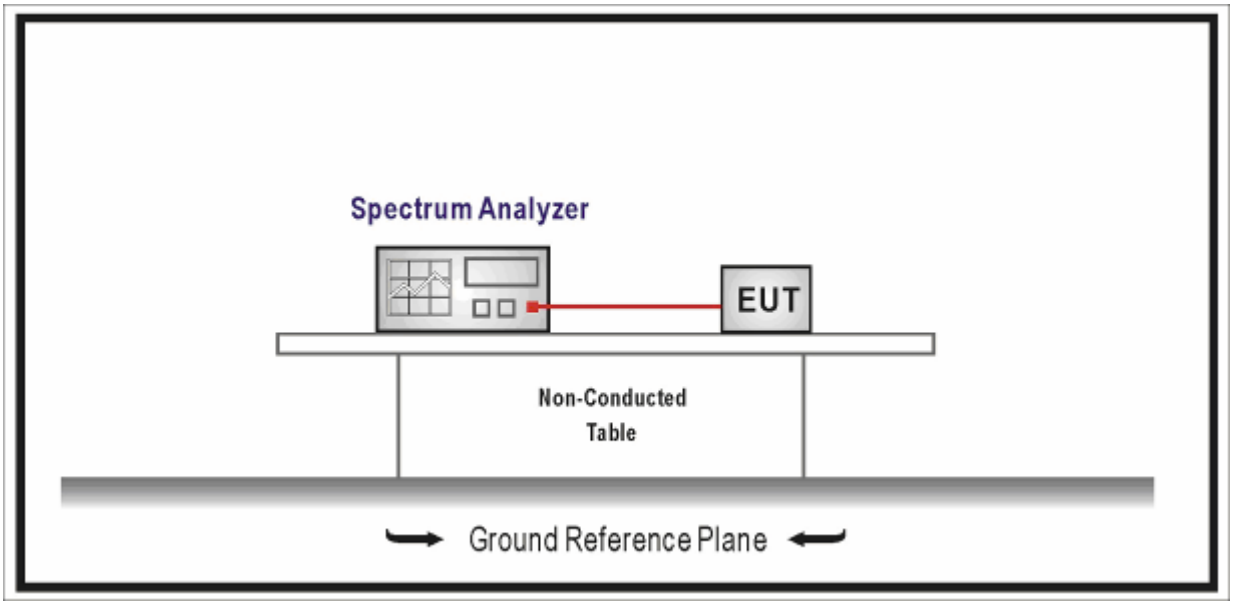
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1	*	30.020	30.483	34.175	-9.517	40.000	18.788	0.600	23.080	100	112	QP
2		61.890	28.463	44.192	-11.537	40.000	6.462	0.849	23.040	100	199	QP
3		79.804	27.128	42.261	-12.872	40.000	7.007	0.960	23.100	100	20	QP
4		329.901	31.595	38.408	-14.405	46.000	14.177	1.970	22.960	100	1	QP
5		455.901	28.590	31.936	-17.410	46.000	17.094	2.330	22.770	200	118	QP
6		816.521	35.182	34.280	-10.818	46.000	20.132	3.148	22.378	200	19	QP

5. Emission bandwidth and occupied bandwidth

5.1. Test Equipment

Emission bandwidth and occupied bandwidth / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.03.11	2017.03.10
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2016.04.10	2017.04.09
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

5.2. Test Setup



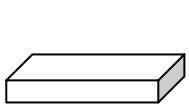
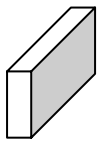
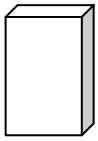
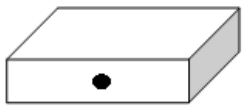
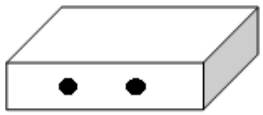
5.3. Limit

N/A

5.4. Test Procedure

Test Method			
	References Rule	Chapter	Description
☐	ANSI C63.10	12.4	Emission bandwidth and occupied bandwidth
	☐ ANSI C63.10	12.4.1	Emission bandwidth (26dB)
	☐ ANSI C63.10	12.4.2	Occupied bandwidth (99%)
☒	FCC KDB 789033 D02v01r02	C	Bandwidth Measurement
	☒ FCC KDB 789033 D02v01r02	C.1	Emission Bandwidth (26dB)
	☐ FCC KDB 789033 D02v01r02	C.2	Minimum Emission Bandwidth for the band 5.725-5.85 GHz (6dB)
☒	FCC KDB 789033 D02v01r02	D	99 Percent Occupied Bandwidth

5.5. EUT test Axis definition

<table>
<tr><td>Item</td><td colspan="4">Occupied bandwidth</td></tr>
<tr><td rowspan="4">Device Category</td><td>☒</td><td colspan="3">Indoor use</td></tr>
<tr><td>☐</td><td colspan="3">Outdoor use</td></tr>
<tr><td>☐</td><td colspan="3">Fix position use</td></tr>
<tr><td>☐</td><td colspan="3">Mobile position use</td></tr>
<tr><td>Test mode</td><td colspan="4">Mode 1-6</td></tr>
<tr><td rowspan="11">Test method</td><td>☐</td><td colspan="3">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td>Z Axis</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Worst Axis ☐</td><td>Worst Axis ☐</td><td>Worst Axis ☐</td></tr>
<tr><td>☒</td><td colspan="3">Conducted</td></tr>
<tr><td>☐</td><td colspan="3">Chain 0</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☒</td><td>Chain 0</td><td colspan="2">Chain 1</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 0</td><td>Chain 1</td><td>Chain 2</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
</table>

5.6. Test Result

Product	:	AC1200 Wireless Dual Band Gigabit Access Point
Test Item	:	Occupied Bandwidth
Test Site	:	TR-8

Mode 1: Transmit by 802.11a with CDD								
Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)		99% Occupied Bandwidth (MHz)		Lower/Higher Frequency (MHz)		Result
		Ant0	Ant1	Ant0	Ant1	Ant0	Ant1	
36	5180	22.39	22.22	16.619	16.6605	5171.43	5171.26	Pass
44	5220	22.04	22.12	16.624	16.612	N/A	N/A	Pass
48	5240	23.57	23.46	16.680	16.663	5248.31	5248.39	Pass
149	5745	26.46	26.37	16.788	16.716	N/A	N/A	Pass
157	5785	27.69	27.56	16.815	16.798	N/A	N/A	Pass
165	5825	28.02	27.69	16.761	16.698	N/A	N/A	Pass
Mode 2: Transmit by 802.11n(20MHz) with CDD								
36	22.58	20.47	20.43	17.778	17.698	5171.64	5171.62	Pass
44	5220	22.87	22.77	17.787	17.669	N/A	N/A	Pass
48	5240	22.77	22.69	17.734	17.712	5248.34	5248.33	Pass
149	5745	27.50	27.43	17.907	17.896	N/A	N/A	Pass
157	5785	26.99	26.86	17.850	17.812	N/A	N/A	Pass
165	5825	28.92	28.88	17.898	17.866	N/A	N/A	Pass
Mode 3: Transmit by 802.11n(40MHz) with CDD								
38	5190	41.93	41.89	36.203	36.125	5171.81	5171.83	Pass
46	5230	46.54	46.35	36.423	36.332	5248.19	5248.12	Pass
151	5755	46.34	46.22	36.397	36.384	N/A	N/A	Pass
159	5795	43.74	43.55	36.267	36.262	N/A	N/A	Pass
Mode 4: Transmit by 802.11ac(20MHz) with CDD								
36	5180	22.16	22.05	17.780	17.763	5171.61	5171.31	Pass
44	5220	21.69	21.56	17.764	17.561	N/A	N/A	Pass
48	5240	22.91	22.89	17.787	17.639	5248.46	5248.41	Pass
149	5745	22.28	22.14	17.745	17.669	N/A	N/A	Pass
157	5785	24.36	24.31	17.778	17.754	N/A	N/A	Pass
165	5825	23.36	23.13	17.724	17.712	N/A	N/A	Pass

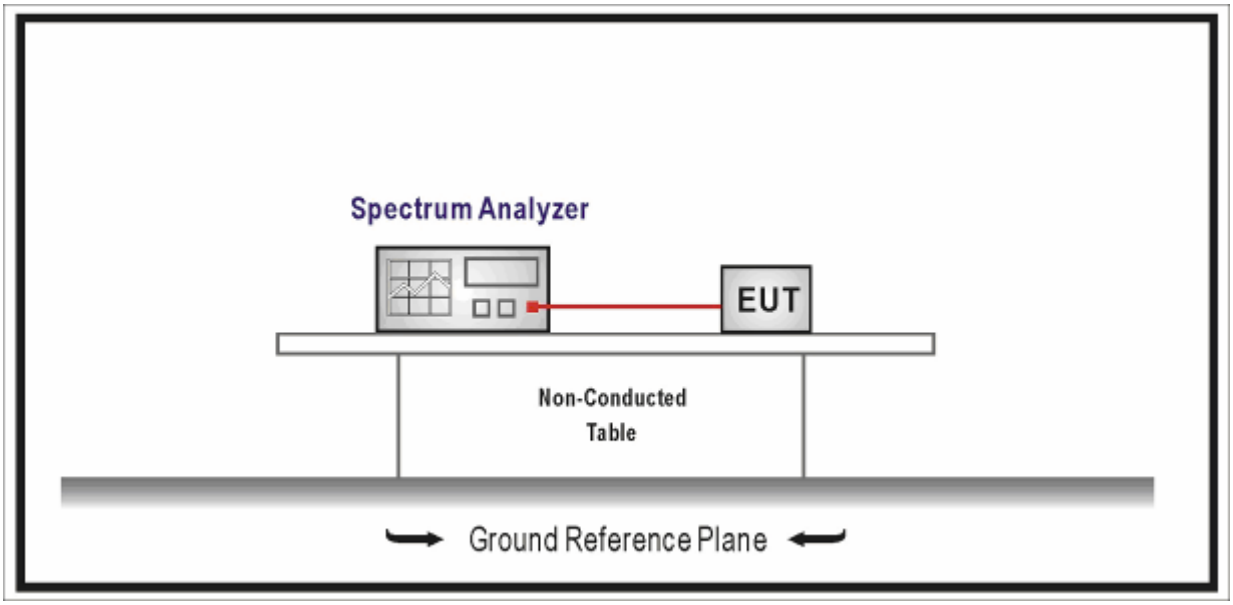
Mode 5: Transmit by 802.11ac(40MHz) with CDD								
38	5190	42.66	42.35	36.239	36.211	5171.77	5171.46	Pass
46	5230	42.46	42.33	36.207	32.169	5248.32	5248.41	Pass
151	5755	45.02	45.01	36.311	36.239	N/A	N/A	Pass
159	5795	44.78	44.16	36.356	36.259	N/A	N/A	Pass
Mode 6: Transmit by 802.11ac(80MHz) with CDD								
42	5210	82.39	82.26	75.793	75.784	5171.36	5171.74	Pass
155	5775	82.10	82.01	75.831	75.812	5248.13	5248.22	Pass
The worst case of Occupied Bandwidth as below:								
CH155 (5775MHz) Ant 0								

6. 6dB bandwidth

6.1. Test Equipment

Emission bandwidth and occupied bandwidth / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.03.11	2017.03.10
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2016.04.10	2017.04.09
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

6.2. Test Setup



6.3. Limit

>500kHz

6.4. Test Procedure

Test Method			
	References Rule	Chapter	Description
☐	ANSI C63.10	12.4	Emission bandwidth and occupied bandwidth
	☐ ANSI C63.10	12.4.1	Emission bandwidth (26dB)
	☐ ANSI C63.10	12.4.2	Occupied bandwidth (99%)
☒	FCC KDB 789033 D02v01r02	C	Bandwidth Measurement
	☐ FCC KDB 789033 D02v01r02	C.1	Emission Bandwidth (26dB)
	☒ FCC KDB 789033 D02v01r02	C.2	Minimum Emission Bandwidth for the band 5.725-5.85 GHz (6dB)
☐	FCC KDB 789033 D02v01r02	D	99 Percent Occupied Bandwidth

6.5. EUT test Axis definition

<table>
<tr><td>Item</td><td colspan="4">6dB bandwidth</td></tr>
<tr><td rowspan="4">Device Category</td><td>☒</td><td colspan="3">Indoor use</td></tr>
<tr><td>☐</td><td colspan="3">Outdoor use</td></tr>
<tr><td>☐</td><td colspan="3">Fix position use</td></tr>
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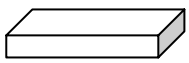
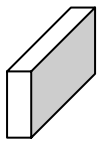
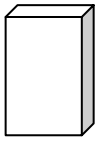
<tr><td rowspan="12">Test method</td><td>☐</td><td colspan="3">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td>Z Axis</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
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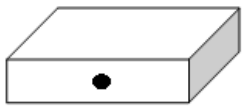
<tr><td>☒</td><td colspan="3">Conducted</td></tr>
<tr><td>☐</td><td colspan="3">Chain 0</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
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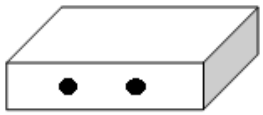
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 0</td><td>Chain 1</td><td>Chain 2</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
</table>

6.6. Test Result

Product	:	AC1200 Wireless Dual Band Gigabit Access Point
Test Item	:	6dB Bandwidth
Test Site	:	TR-8

Mode 1: Transmit by 802.11a with CDD					
Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)		Limit (kHz)	Result
		Ant0	Ant1		
149	5745	16.37	16.35	>500	Pass
157	5785	16.31	16.12		Pass
165	5825	16.49	16.32		Pass
Mode 2: Transmit by 802.11n(20MHz) with CDD					
149	5745	17.58	17.53	>500	Pass
157	5785	17.53	17.31		Pass
165	5825	17.59	17.59		Pass
Mode 3: Transmit by 802.11n(40MHz) with CDD					
151	5755	36.13	35.67	>500	Pass
159	5795	35.99	35.45		Pass
Mode 4: Transmit by 802.11ac(20MHz) with CDD					
149	5745	17.59	17.57	>500	Pass
157	5785	17.55	17.35		Pass
165	5825	17.21	17.58		Pass
Mode 5: Transmit by 802.11ac(40MHz) with CDD					
151	5755	35.55	35.76	>500	Pass
159	5795	35.75	35.81		Pass

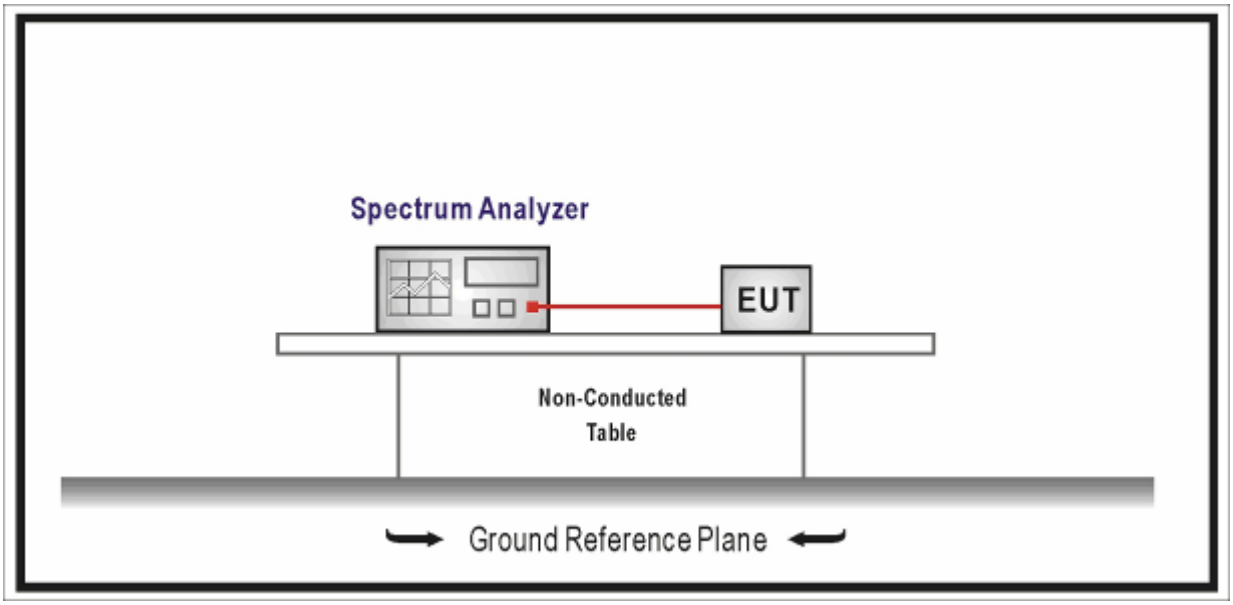
Mode 6: Transmit by 802.11ac(80MHz) with CDD					
155	5775	73.63	75.17	>500	Pass
The worst case of 6dB Bandwidth as below:					
Mode 1 CH157 (5785MHz) Ant 1					
					

7. Power Output

7.1. Test Equipment

Power Output / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.03.11	2017.03.10
Power Sensor	Anritsu	MA2411B	0846014	2016.11.11	2016.11.10
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2016.04.10	2017.04.09
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

7.2. Test Setup



7.3. Limit

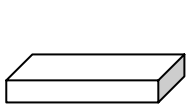
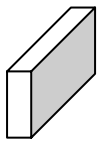
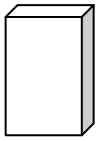
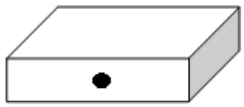
Fundamental emission output power Limit		
☒	For the band 5.15-5.25 GHz	
	☐	Outdoor access point: the maximum conducted output power shall not exceed 1 W. If G_{TX} 6dBi, then Pout 30 - (G_{TX} - 6) and 125mW at any angle above 30 degrees
	☒	Indoor access point: the maximum conducted output power shall not exceed 1 W. If G_{TX} 6dBi, then Pout 30 - (G_{TX} - 6)
	☐	Fixed point-to-point access points: the maximum conducted output power shall not exceed 1 W. If G_{TX} 23dBi, then Pout 30 - (G_{TX} - 23)
	☐	Mobile and portable client devices: the maximum conducted output power shall not exceed 250mW. If G_{TX} 6dBi, then Pout 24 - (G_{TX} - 6)
☐	For the band 5.25-5.35 GHz:	
	☐	the maximum conducted output power shall not exceed 250mW or 11dBm+10 Log B, where B is the 26dB emission bandwidth in MHz. If G_{TX} 6dBi, then Pout (The lesser of 24 or 11dBm+10 Log B) - (GTX - 6)
☐	For the 5.47-5.725 GHz:	
	☐	the maximum conducted output power shall not exceed 250mW or 11dBm+10 Log B, where B is the 26dB emission bandwidth in MHz. If G_{TX} 6dBi, then Pout (The lesser of 24 or 11dBm+10 Log B) - (G_{TX} - 6)
☒	For the band 5.725-5.85 GHz:	
	☒	Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6)
	☐	Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W
Note 1 : G_{TX} directional gain of transmitting antennas. Note 2 : P_{out} is maximum peak conducted output power .		

7.4. Test Procedure

Fundamental emission output power Test Method					
	References Rule			Chapter	Description
☒	ANSI C63.10			12.3	Maximum conducted output power
	☒	ANSI C63.10		12.3.2	Maximum conducted output power measurement using a spectrum analyzer (SA) or EMI receiver
		☐	ANSI C63.10	12.3.2.2	Method SA-1
		☐	ANSI C63.10	12.3.2.3	Method SA-1A (alternative)
		☒	ANSI C63.10	12.3.2.4	Method SA-2
		☐	ANSI C63.10	12.3.2.5	Method SA-2A (alternative)
		☐	ANSI C63.10	12.3.2.6	Method SA-3
		☐	ANSI C63.10	12.3.2.7	Method SA-3A (alternative)
	☒	ANSI C63.10		12.3.3	Maximum conducted output power using a power meter
		☐	ANSI C63.10	12.3.3.1	Method PM
		☒	ANSI C63.10	12.3.3.2	Method PM-G

Directional Gain Calculations for In-Band test method				
	References Rule		Chapter	Description
☐	KDB 662911		F2)a)	Basic methodology with NANT transmit antennas
	☐	KDB 662911	F2)a) (i)	transmit signals are correlated
	☐	KDB 662911	F2)a) (ii)	transmit signals are uncorrelated
☐	KDB 662911		F2)b)	Sectorized antenna systems.
☐	KDB 662911		F2)c)	Cross-polarized antennas
	☐	ANSI C63.10	F2)c) (i)	Cross-polarized antennas with NANT = 2.
	☐	ANSI C63.10	F2)c) (ii)	Multiple antennas
☐	KDB 662911		F2)d)	Sectorized antenna systems.
	☐	KDB 662911	F2)d) (i)	transmit signals are correlated
	☐	KDB 662911	F2)d) (ii)	transmit signals are uncorrelated
☐	KDB 662911		F2)e)	Spatial Multiplexing
	☒	KDB 662911	F2)e) (i)	Antennas have the same gain
	☐	KDB 662911	F2)e) (ii)	Antenna have the different gain with one spatial stream
	☐	KDB 662911	F2)e) (iii)	Antenna have the different gain with more than one spatial stream
☒	KDB 662911		F2)f)	Cyclic Delay Diversity (CDD)
	☐	KDB 662911	F2)f) (i)	Antennas have the same gain
	☐	KDB 662911	F2)f) (ii)	Antenna have the different gain with one spatial stream
	☒	KDB 662911	F2)f) (ii)	Antenna have the different gain with more than one spatial stream

7.5. EUT test Axis definition

<table>
<tr><td>Item</td><td colspan="4">Power Output</td></tr>
<tr><td rowspan="4">Device Category</td><td>☒</td><td colspan="3">Indoor use</td></tr>
<tr><td>☐</td><td colspan="3">Outdoor use</td></tr>
<tr><td>☐</td><td colspan="3">Fix position use</td></tr>
<tr><td>☐</td><td colspan="3">Mobile position use</td></tr>
<tr><td>Test mode</td><td colspan="4">Mode 1-6</td></tr>
<tr><td rowspan="11">Test method</td><td>☐</td><td colspan="3">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td>Z Axis</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Worst Axis ☐</td><td>Worst Axis ☒</td><td>Worst Axis ☐</td></tr>
<tr><td>☒</td><td colspan="3">Conducted</td></tr>
<tr><td>☐</td><td colspan="3">Chain 0</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
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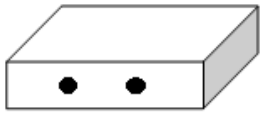
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 0</td><td>Chain 1</td><td>Chain 2</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
</table>

7.6. Test Result

Product	:	AC1200 Wireless Dual Band Gigabit Access Point
Test Item	:	Power Output
Test Site	:	TR-8

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Duty Factor	Total Power (dBm)	FCC Limit (dBm)	Result
		Ant0	Ant1				
Mode 1: Transmit by 802.11a with CDD							
36	5180	21.04	21.32	0.27	24.46	30.0	Pass
44	5220	21.76	22.02	0.27	25.17	30.0	Pass
48	5240	21.54	22.06	0.27	25.09	30.0	Pass
149	5745	25.43	25.61	0.27	28.80	30.0	Pass
157	5785	26.11	26.34	0.27	29.51	30.0	Pass
165	5825	25.64	25.91	0.27	29.06	30.0	Pass
Mode 2: Transmit by 802.11n(20MHz) with CDD							
36	5180	21.06	21.43	0.25	24.51	30.0	Pass
44	5220	21.71	22.09	0.25	25.16	30.0	Pass
48	5240	21.56	21.87	0.25	24.98	30.0	Pass
149	5745	24.81	25.04	0.25	28.19	30.0	Pass
157	5785	26.05	26.25	0.25	29.41	30.0	Pass
165	5825	25.64	25.94	0.25	29.05	30.0	Pass
Mode 3: Transmit by 802.11n(40MHz) with CDD							
38	5190	17.25	17.34	0.28	20.59	30.0	Pass
46	5230	21.83	22.27	0.28	25.35	30.0	Pass
151	5755	23.57	23.61	0.28	26.88	30.0	Pass
159	5795	24.86	25.13	0.28	28.29	30.0	Pass
Mode 4: Transmit by 802.11ac(20MHz) with CDD							
36	5180	20.03	20.07	0.47	23.53	30.0	Pass
44	5220	21.67	22.04	0.47	25.34	30.0	Pass
48	5240	21.45	21.87	0.47	25.15	30.0	Pass
149	5745	25.33	25.64	0.47	28.97	30.0	Pass
157	5785	26.12	26.34	0.47	29.71	30.0	Pass
165	5825	25.65	25.92	0.47	29.27	30.0	Pass

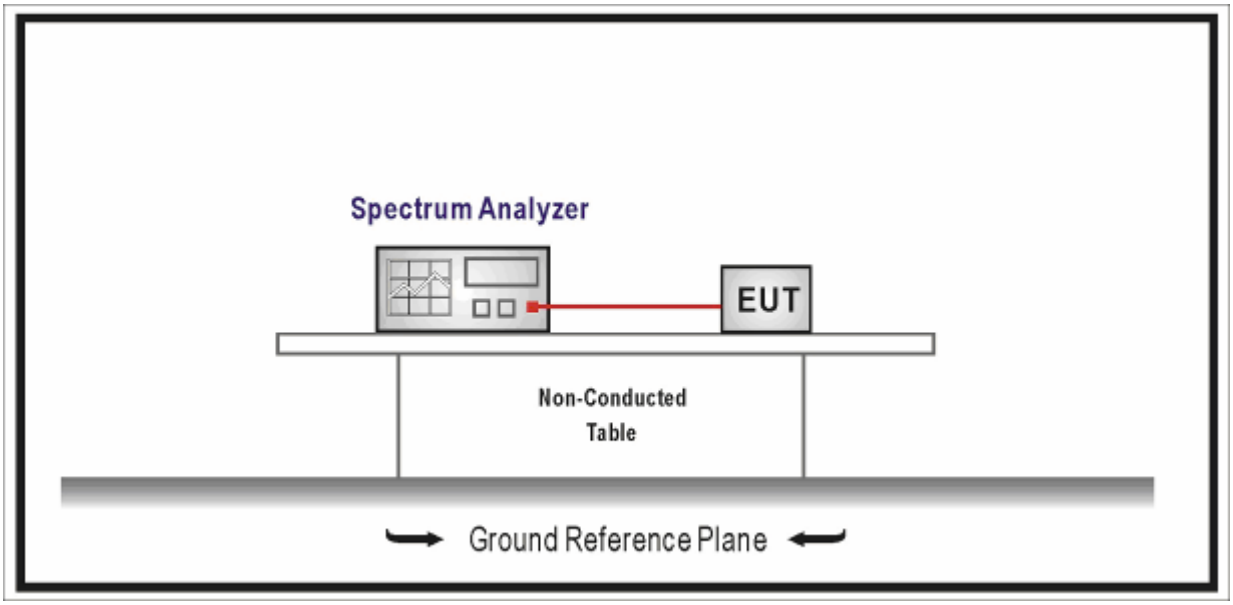
Mode 5: Transmit by 802.11ac(40MHz) with CDD							
38	5190	17.39	17.42	0.52	20.94	30.0	Pass
46	5230	22.65	23.07	0.52	26.40	30.0	Pass
151	5755	24.13	24.25	0.52	27.72	30.0	Pass
159	5795	24.93	25.04	0.52	28.52	30.0	Pass
Mode 6: Transmit by 802.11ac(80MHz) with CDD							
42	5210	15.74	15.94	0.88	19.73	30.0	Pass
155	5775	20.76	21.04	0.88	24.79	30.0	Pass

8. Peak Power Spectral Density

8.1. Test Equipment

Peak Power Spectral Density / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.03.11	2017.03.10
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2016.04.10	2017.04.09
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

8.2. Test Setup



8.3. Limit

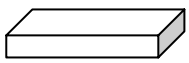
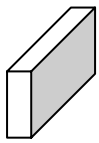
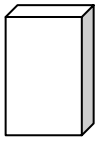
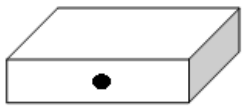
Fundamental emission output power Limit		
☒	For the band 5.15-5.25 GHz	
	☐	Outdoor access point: the maximum power spectral density shall not exceed 17 dBm/MHz. If G_{TX} 6dBi, then Pout 17 - (G_{TX} - 6)
	☒	Indoor access point: the maximum power spectral density shall not exceed 17 dBm/MHz. If G_{TX} 6dBi, then Pout 17 - (G_{TX} - 6)
	☐	Fixed point-to-point access points: the maximum power spectral density shall not exceed 17 dBm/MHz. If G_{TX} 23dBi, then Pout 17 - (G_{TX} - 23)
	☐	Mobile and portable client devices: the maximum power spectral density shall not exceed 11 dBm/MHz. If G_{TX} 6dBi, then Pout 11 - (G_{TX} - 6)
☐	For the 5.25-5.35 GHz:	
	☐	the maximum power spectral density shall not exceed 11 dBm/MHz. If G_{TX} 6dBi, then Pout 11 - (G_{TX} - 6)
☐	For the 5.47-5.725 GHz:	
	☐	the maximum power spectral density shall not exceed 11 dBm/MHz.If G_{TX} 6dBi, then Pout 11 - (G_{TX} - 6)
☒	For the band 5.725-5.85 GHz:	
	☒	the maximum power spectral density shall not exceed 30 dBm/500KHz. If G_{TX} 6dBi, then Pout 30 - (G_{TX} - 6)
Note 1 : G_{TX} directional gain of transmitting antennas. Note 2 : P_{out} is maximum peak conducted output power .		

8.4. Test Procedure

Fundamental emission output power Test Method			
	References Rule	Chapter	Description
☒	ANSI C63.10	12.5	Peak power spectral density
☒	FCC KDB 789033 D02v01r02	F	Maximum Power Spectral Density (PSD)

Directional Gain Calculations for In-Band test method				
	References Rule		Chapter	Description
☐	KDB 662911		F2)a)	Basic methodology with NANT transmit antennas
	☐	KDB 662911	F2)a) (i)	transmit signals are correlated
	☐	KDB 662911	F2)a) (ii)	transmit signals are uncorrelated
☐	KDB 662911		F2)b)	Sectorized antenna systems.
☐	KDB 662911		F2)c)	Cross-polarized antennas
	☐	ANSI C63.10	F2)c) (i)	Cross-polarized antennas with NANT = 2.
	☐	ANSI C63.10	F2)c) (ii)	Multiple antennas
☐	KDB 662911		F2)d)	Sectorized antenna systems.
	☐	KDB 662911	F2)d) (i)	transmit signals are correlated
	☐	KDB 662911	F2)d) (ii)	transmit signals are uncorrelated
☐	KDB 662911		F2)e)	Spatial Multiplexing
	☐	KDB 662911	F2)e) (i)	Antennas have the same gain
	☐	KDB 662911	F2)e) (ii)	Antenna have the different gain with one spatial stream
	☐	KDB 662911	F2)e) (iii)	Antenna have the different gain with more than one spatial stream
☒	KDB 662911		F2)f)	Cyclic Delay Diversity (CDD)
	☐	KDB 662911	F2)f) (i)	Antennas have the same gain
	☐	KDB 662911	F2)f) (ii)	Antenna have the different gain with one spatial stream
	☒	KDB 662911	F2)f) (ii)	Antenna have the different gain with more than one spatial stream

8.5. EUT test Axis definition

<table>
<tr><td>Item</td><td colspan="4">Peak power spectral density</td></tr>
<tr><td rowspan="4">Device Category</td><td>☒</td><td colspan="3">Indoor use</td></tr>
<tr><td>☐</td><td colspan="3">Outdoor use</td></tr>
<tr><td>☐</td><td colspan="3">Fix position use</td></tr>
<tr><td>☐</td><td colspan="3">Mobile position use</td></tr>
<tr><td>Test mode</td><td colspan="4">Mode 1-6</td></tr>
<tr><td rowspan="12">Test method</td><td>☐</td><td colspan="3">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td>Z Axis</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Worst Axis ☐</td><td>Worst Axis ☐</td><td>Worst Axis ☐</td></tr>
<tr><td>☒</td><td colspan="3">Conducted</td></tr>
<tr><td>☐</td><td colspan="3">Chain 0</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
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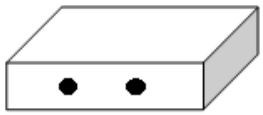
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 0</td><td>Chain 1</td><td>Chain 2</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
</table>

8.6. Test Result

Product	:	AC1200 Wireless Dual Band Gigabit Access Point
Test Item	:	Peak Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11a with CDD

Mode 1: Transmit by 802.11a with CDD

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Duty Factor	Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant0	Ant1				
36	5180	10.337	10.217	0.27	13.56	14.82	Pass
44	5220	11.498	10.743	0.27	14.42	14.82	Pass
48	5240	10.652	10.734	0.27	13.97	14.82	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500kHz)		Duty Factor	Total PPSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
		Ant0	Ant1				
149	5745	11.301	10.884	0.27	14.38	27.82	Pass
157	5785	11.511	11.467	0.27	14.77	27.82	Pass
165	5825	11.336	11.234	0.27	14.57	27.82	Pass

Mode 2: Transmit by 802.11n(20MHz) with CDD

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Duty Factor	Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant0	Ant1				
36	5180	9.996	10.154	0.25	13.34	14.82	Pass
44	5220	11.345	10.770	0.25	14.33	14.82	Pass
48	5240	10.504	10.329	0.25	13.68	14.82	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500kHz)		Duty Factor	Total PPSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
		Ant0	Ant1				
149	5745	10.426	10.394	0.25	13.67	27.82	Pass
157	5785	11.431	11.348	0.25	14.65	27.82	Pass
165	5825	11.203	10.712	0.25	14.22	27.82	Pass

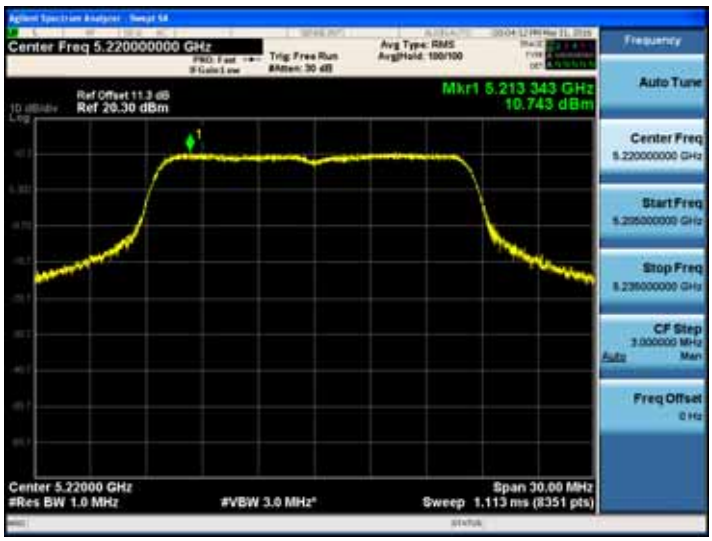
Mode 3: Transmit by 802.11n(40MHz) with CDD							
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Duty Factor	Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant0	Ant1				
38	5190	2.838	2.829	0.28	6.12	14.82	Pass
46	5230	8.216	7.382	0.28	11.11	14.82	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500kHz)		Duty Factor	Total PPSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
		Ant0	Ant1				
151	5755	6.244	6.450	0.28	9.64	27.82	Pass
159	5795	7.726	7.975	0.28	11.14	27.82	Pass
Mode 4: Transmit by 802.11ac(20MHz) with CDD							
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Duty Factor	Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant0	Ant1				
36	5180	8.883	8.741	0.47	12.29	14.82	Pass
44	5220	11.002	10.365	0.47	14.18	14.82	Pass
48	5240	10.267	10.313	0.47	13.77	14.82	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500kHz)		Duty Factor	Total PPSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
		Ant0	Ant1				
149	5745	11.116	11.106	0.47	14.59	27.82	Pass
157	5785	11.557	11.586	0.47	15.05	27.82	Pass
165	5825	11.084	11.251	0.47	14.65	27.82	Pass
Mode 5: Transmit by 802.11ac(40MHz) with CDD							
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Duty Factor	Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant0	Ant1				
38	5190	3.242	2.879	0.52	6.59	14.82	Pass
46	5230	8.219	8.830	0.52	12.07	14.82	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500kHz)		Duty Factor	Total PPSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
		Ant0	Ant1				
151	5755	7.237	7.273	0.52	10.79	27.82	Pass
159	5795	7.901	8.020	0.52	11.49	27.82	Pass

Mode 6: Transmit by 802.11ac(40MHz) with CDD							
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Duty Factor	Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant0	Ant1				
42	5210	-2.637	-2.716	0.88	1.21	14.82	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500kHz)		Duty Factor	Total PPSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
		Ant0	Ant1				
155	5775	0.483	0.838	0.88	4.55	27.82	Pass

The worst case of 6dB Bandwidth in CDD mode as below:

Mode 1 CH44 (5220MHz) Ant 0

Mode 1 CH44 (5220MHz) Ant 1

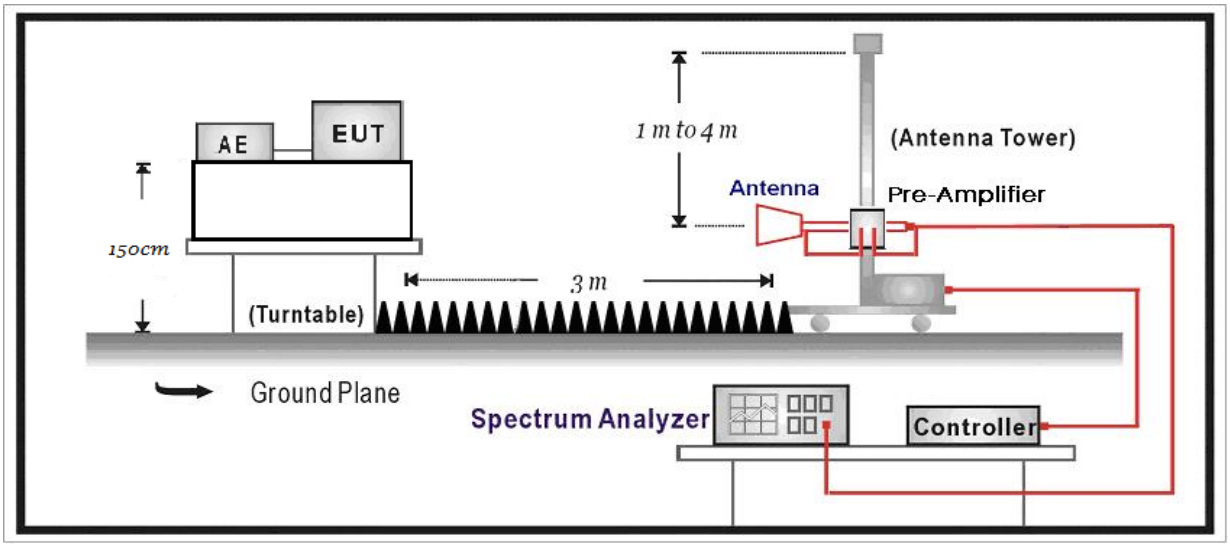


9. Radiated Emission Band Edge

9.1. Test Equipment

Radiated Emission Band Edge / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.03.11	2017.03.10
Preamplifier	Miteq	NSP1800-25	1364185	2016.05.04	2017.05.03
Preamplifier	QuieTek	AP-040G	CHM-0906001	2016.05.04	2017.05.03
Bilog Antenna	Teseq GmbH	CBL6112D	27612	2015.10.16	2016.10.15
DRG Horn	ETS-Lindgren	3117	00123988	2016.01.08	2017.01.07
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2016.03.02	2017.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2016.03.02	2017.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C3	2016.03.02	2017.03.01
EMI Receiver	Agilent	N9038A	MY51210196	2016.06.10	2017.06.09
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2016.01.09	2017.01.08
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

9.2. Test Setup



9.3. Limit

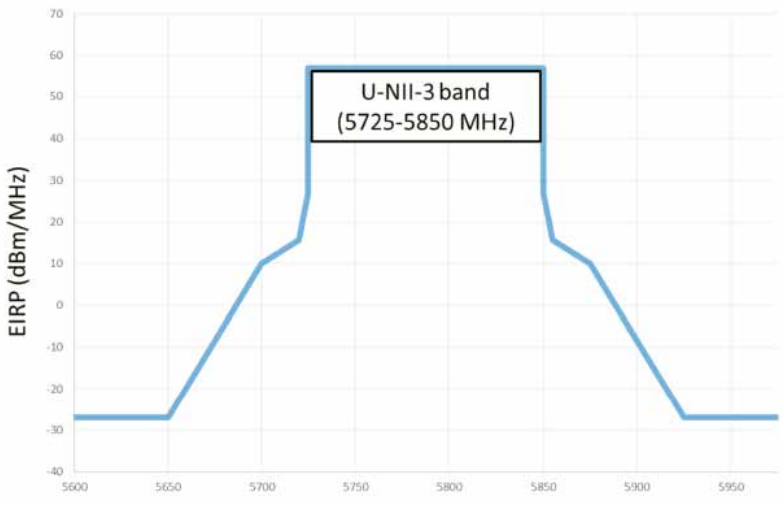
FCC Part 15 Subpart C Paragraph 15.209 (Restricted Band Emissions Limit)		
Frequency (MHz)	Distance (m)	Level (dBµV/m)
0.009-0.490	300	2400/F(kHz)
0.490-1.705	30	24000/F(kHz)
1.705-30.0	30	30
30-88	3	100**
88-216	3	150**
216-960	3	200**
Above 960	3	500

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

FCC Part 15 Subpart C Paragraph 15.205 (Restricted Band)			
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
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
8.81425 – 8.81475	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	
13.36 – 13.41			

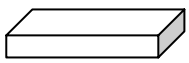
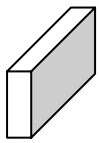
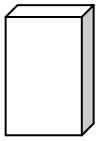
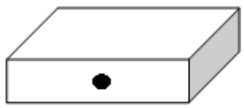
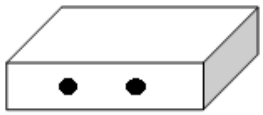
FCC Part 15 Subpart C Paragraph 15.407(5)(b) (Unrestricted Band Emissions Limit)		
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dB V/m)
5150 - 5250	-27	68.3
5250 - 5350	-27	68.3
5470 - 5725	-27	68.3
Note(1): Outside the frequency range 5715 - 5835MHz. Note(2): Within the frequency range from the band edge to 10MHz below or above the band edge, 5715 – 5725MHz and 5825 - 5835MHz.		

FCC 16-24-A1	
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)
5725 - 5825	

9.4. Test Procedure

Test Method					
	References Rule			Chapter	Description
☐	ANSI C63.10			12.7.3	Emissions in non-restricted frequency bands
☒	ANSI C63.10			12.7.2	Emissions in restricted frequency bands
	☒	ANSI C63.10		12.7.5	Radiated emission measurements
	☒	ANSI C63.10		12.7.6	Procedure for peak unwanted emissions measurements above 1000 MHz
	☒	ANSI C63.10		12.7.7	Procedures for average unwanted emissions measurements above 1000 MHz
		☐	ANSI C63.10	12.7.7.2	Method AD (average detection)—primary method
		☒	ANSI C63.10	12.7.7.3	Method VB-A (Alternative)
	☒	ANSI C63.10		6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
	☒	ANSI C63.10		6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	☒	ANSI C63.10		6.6	Radiated emissions from unlicensed wireless devices above 1 GHz
☐	FCC KDB 789033 D02v01r02			G.2	Unwanted Emissions that fall Outside of the Restricted Bands
☐	FCC KDB 789033 D02v01r02			G.1	Unwanted Emissions in the Restricted Bands
	☐	FCC KDB 789033 D02v01r02		G.4	Procedure for Unwanted Emissions Measurements below 1000 MHz
	☐	FCC KDB 789033 D02v01r02		G.5	Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz
	☐	FCC KDB 789033 D02v01r02		G.6	Procedures for Average Unwanted Emissions Measurements above 1000 MHz
		☐	FCC KDB 789033 D02v01r02	G.6.c	Method AD (Average detection)—primary method
		☒	FCC KDB 789033 D02v01r02	G.6.d	Method VB (Averaging using reduced video bandwidth): Alternative method.

9.5. EUT test Axis definition

<table>
<tr><td>Item</td><td colspan="4">Peak power spectral density</td></tr>
<tr><td rowspan="4">Device Category</td><td>☒</td><td colspan="3">Indoor use</td></tr>
<tr><td>☐</td><td colspan="3">Outdoor use</td></tr>
<tr><td>☐</td><td colspan="3">Fix position use</td></tr>
<tr><td>☐</td><td colspan="3">Mobile position use</td></tr>
<tr><td>Test mode</td><td colspan="4">Mode 1-6</td></tr>
<tr><td rowspan="13">Test method</td><td>☐</td><td colspan="3">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td>Z Axis</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Worst Axis ☐</td><td>Worst Axis ☒</td><td>Worst Axis ☐</td></tr>
<tr><td>☒</td><td colspan="3">Conducted</td></tr>
<tr><td>☐</td><td colspan="3">Chain 0</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☒</td><td>Chain 0</td><td colspan="2">Chain 1</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 0</td><td>Chain 1</td><td>Chain 2</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
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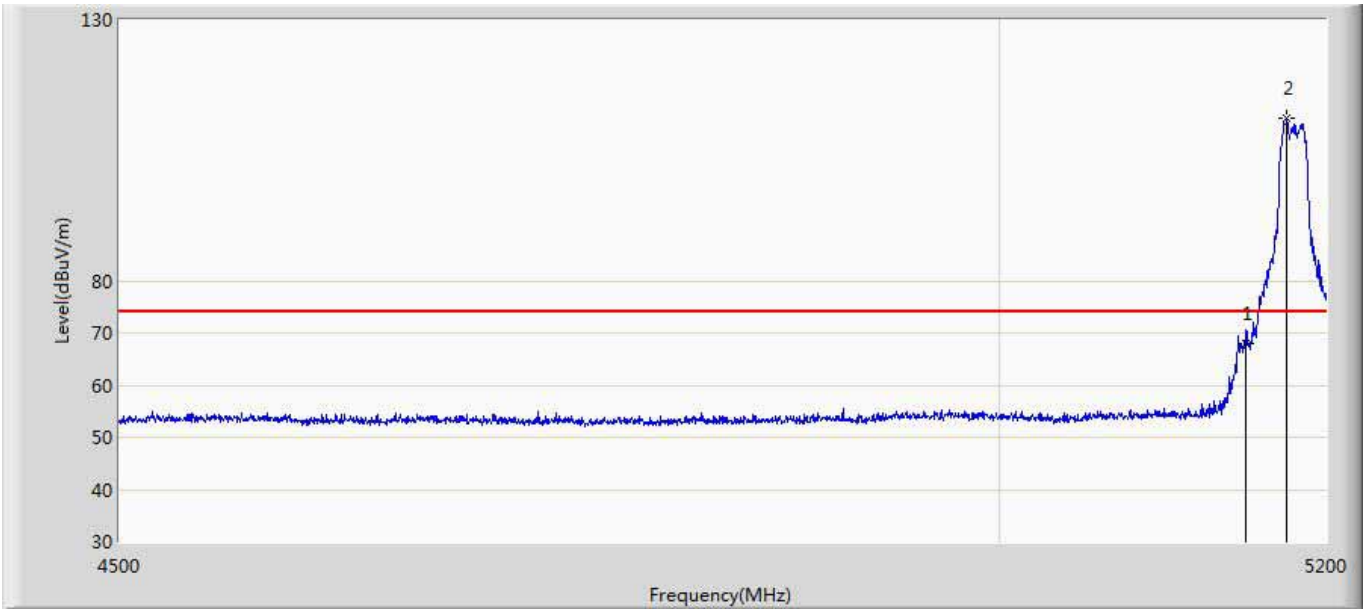
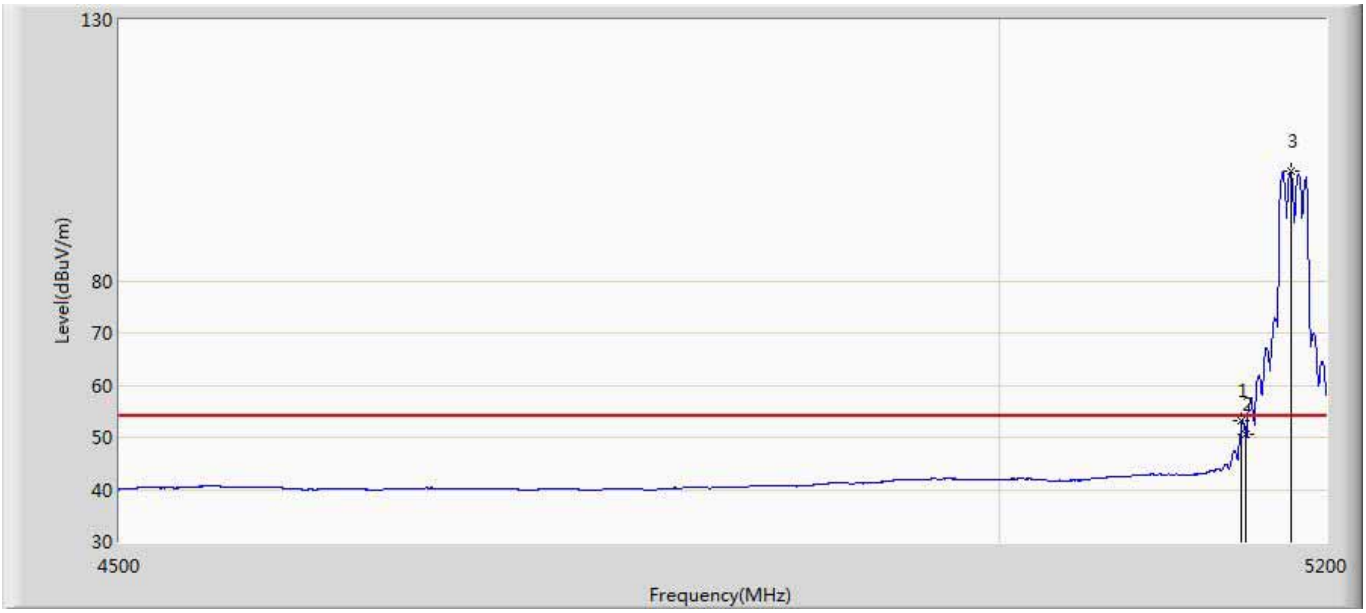
9.6. Test Result

Profile: QTK No.:1652013R	Page No.: 1
Engineer: Cloud	
Site: AC5	Time: 2016/05/28 - 15:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 1:Transmit at CH5180 by 802.11a	



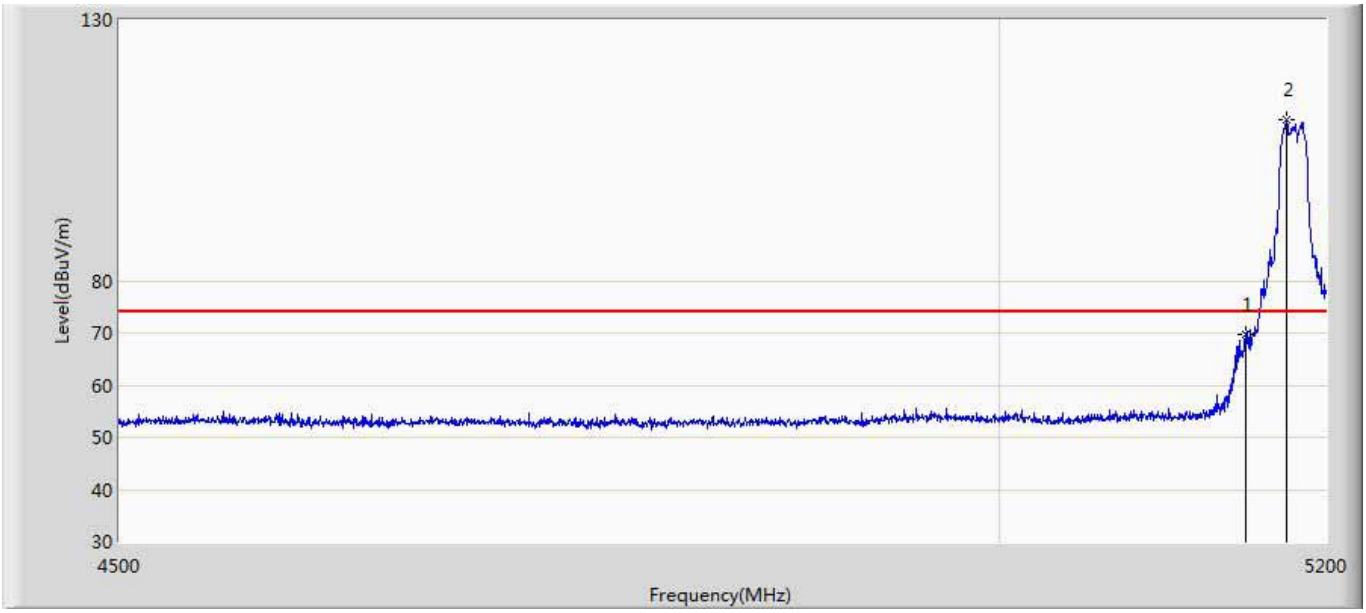
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	67.878	25.131	-6.122	74.000	42.747	PK
2	*	5175.500	111.018	68.162	N/A	N/A	42.855	PK

Profile: QTK No.:1652013R	Page No.: 2
Engineer: Cloud	
Site: AC5	Time: 2016/05/28 - 15:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 1:Transmit at CH5180 by 802.11a	



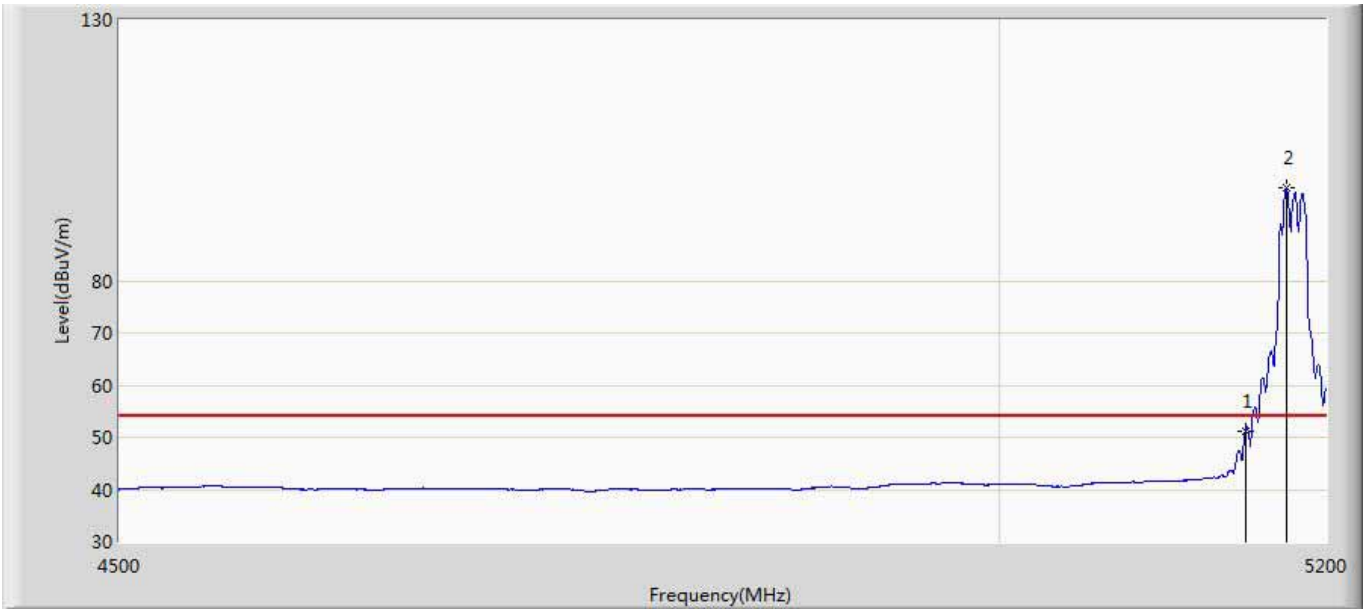
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5147.850	53.328	10.584	-0.672	54.000	42.744	AV
2		5150.000	50.604	7.857	-3.396	54.000	42.747	AV
3	*	5177.950	100.984	58.110	N/A	N/A	42.874	AV

Profile: QTK No.:1652013R	Page No.: 3
Engineer: Cloud	
Site: AC5	Time: 2016/05/28 - 15:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 1:Transmit at CH5180 by 802.11a	



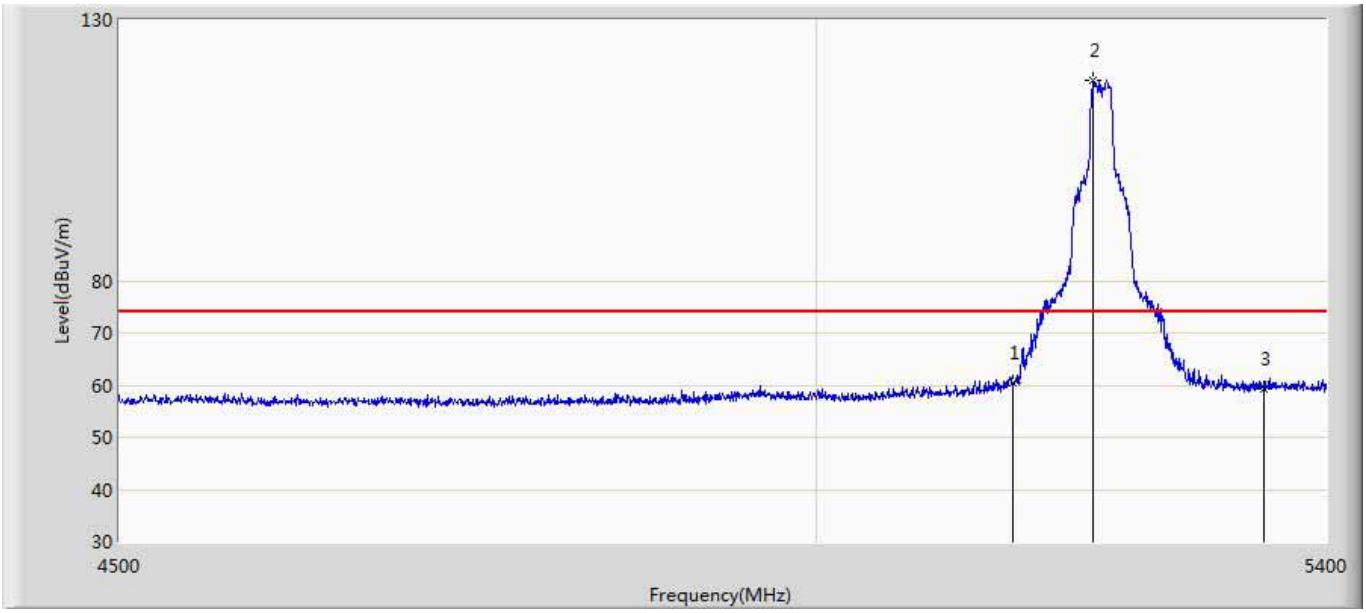
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	69.750	27.003	-4.250	74.000	42.747	PK
2	*	5175.500	110.962	68.106	N/A	N/A	42.855	PK

Profile: QTK No.:1652013R	Page No.: 4
Engineer: Cloud	
Site: AC5	Time: 2016/05/28 - 15:53
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 1:Transmit at CH5180 by 802.11a	



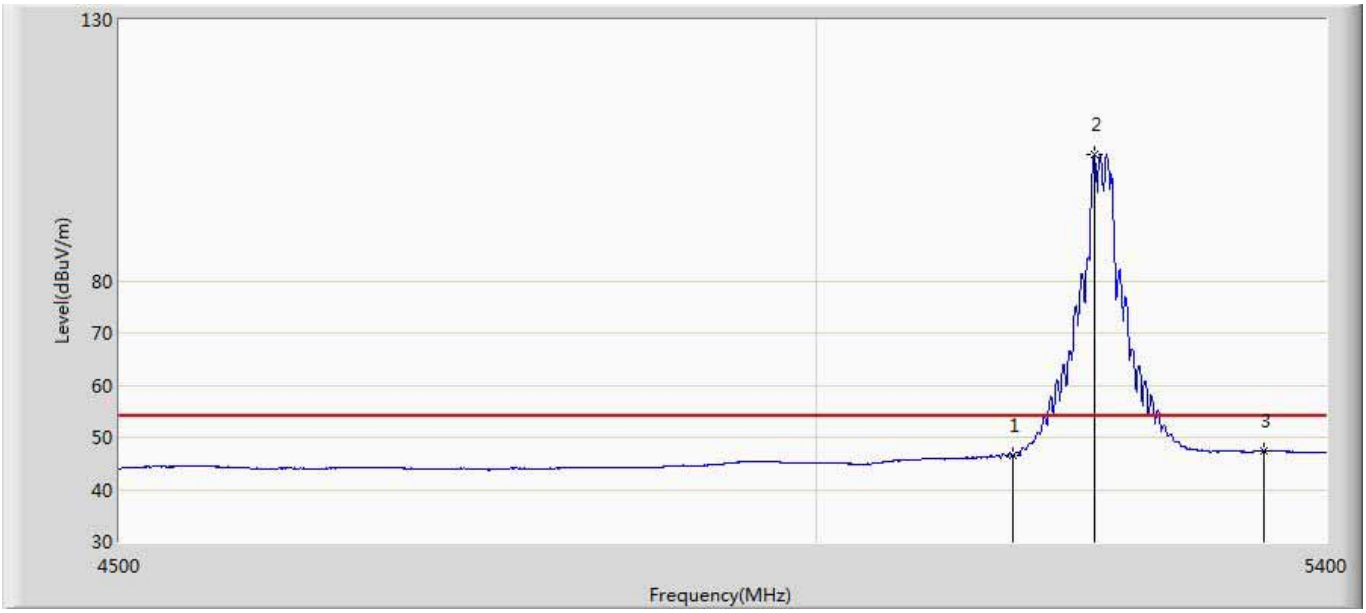
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	51.155	8.408	-2.845	54.000	42.747	AV
2	*	5175.150	97.689	54.836	N/A	N/A	42.853	AV

Profile: QTK No.:1652013R	Page No.: 5
Engineer: Cloud	
Site: AC5	Time: 2016/05/28 - 16:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 1:Transmit at CH5220 by 802.11a	



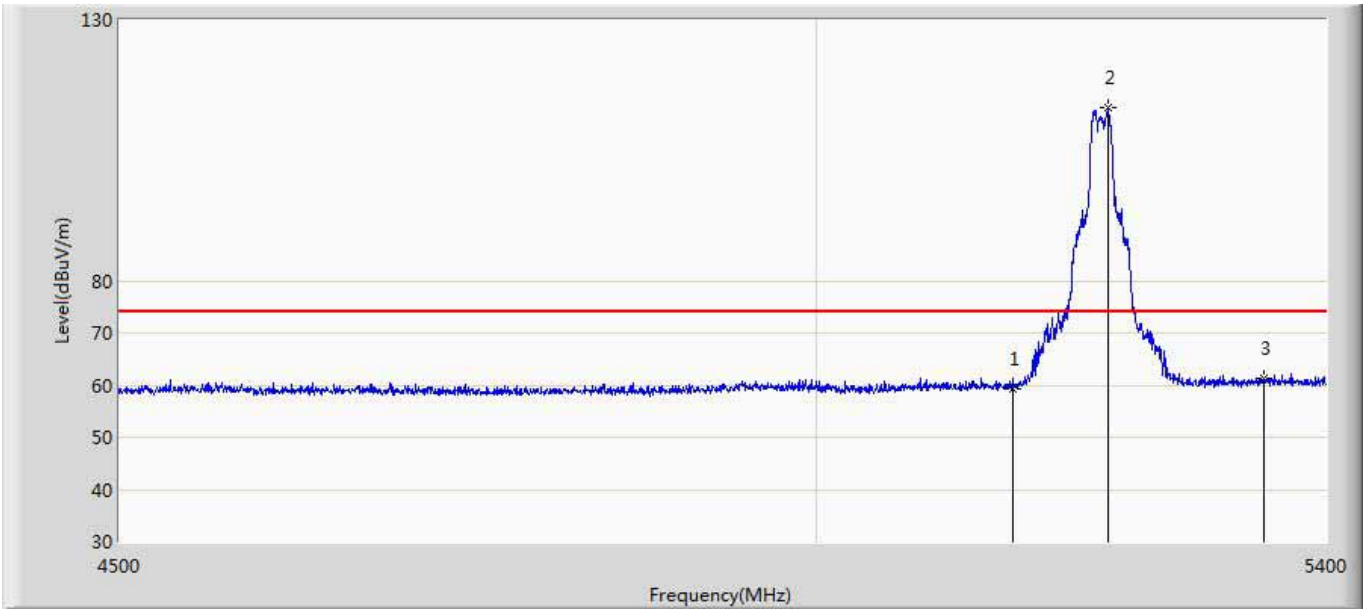
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	60.442	17.695	-13.558	74.000	42.747	PK
2	*	5213.700	118.362	75.569	N/A	N/A	42.794	PK
3		5350.000	59.319	16.126	-14.681	74.000	43.193	PK

Profile: QTK No.:1652013R	Page No.: 6
Engineer: Cloud	
Site: AC5	Time: 2016/05/28 - 16:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 1:Transmit at CH5220 by 802.11a	



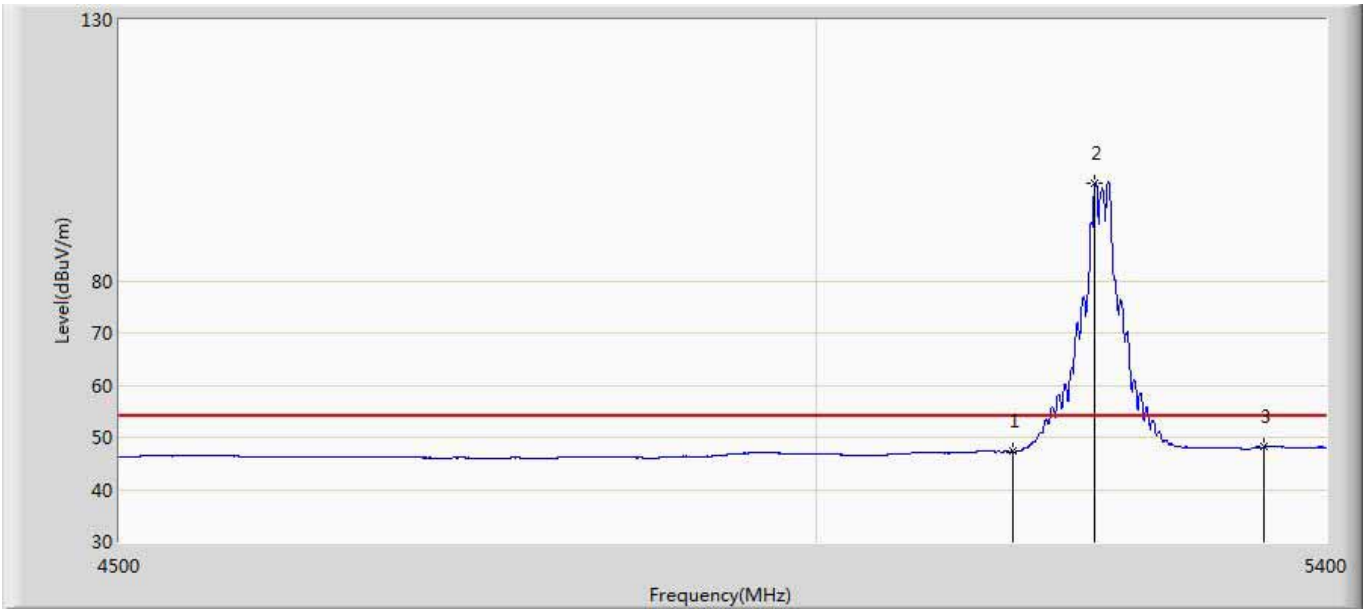
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	46.487	3.740	-7.513	54.000	42.747	AV
2	*	5214.600	104.162	61.373	N/A	N/A	42.789	AV
3		5350.000	47.428	4.235	-6.572	54.000	43.193	AV

Profile: QTK No.:1652013R	Page No.: 7
Engineer: Cloud	
Site: AC5	Time: 2016/05/28 - 16:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 1:Transmit at CH5220 by 802.11a	



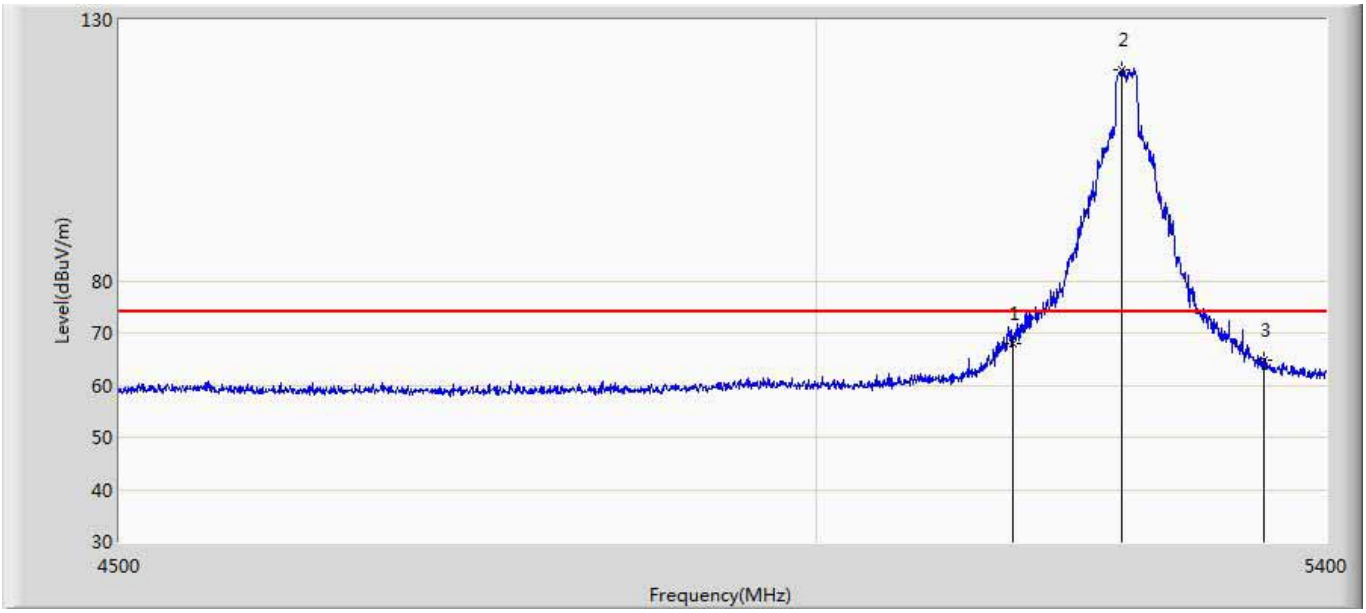
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	59.298	16.551	-14.702	74.000	42.747	PK
2	*	5224.950	113.132	70.298	N/A	N/A	42.834	PK
3		5350.000	61.247	18.054	-12.753	74.000	43.193	PK

Profile: QTK No.:1652013R	Page No.: 8
Engineer: Cloud	
Site: AC5	Time: 2016/05/28 - 16:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 1:Transmit at CH5220 by 802.11a	



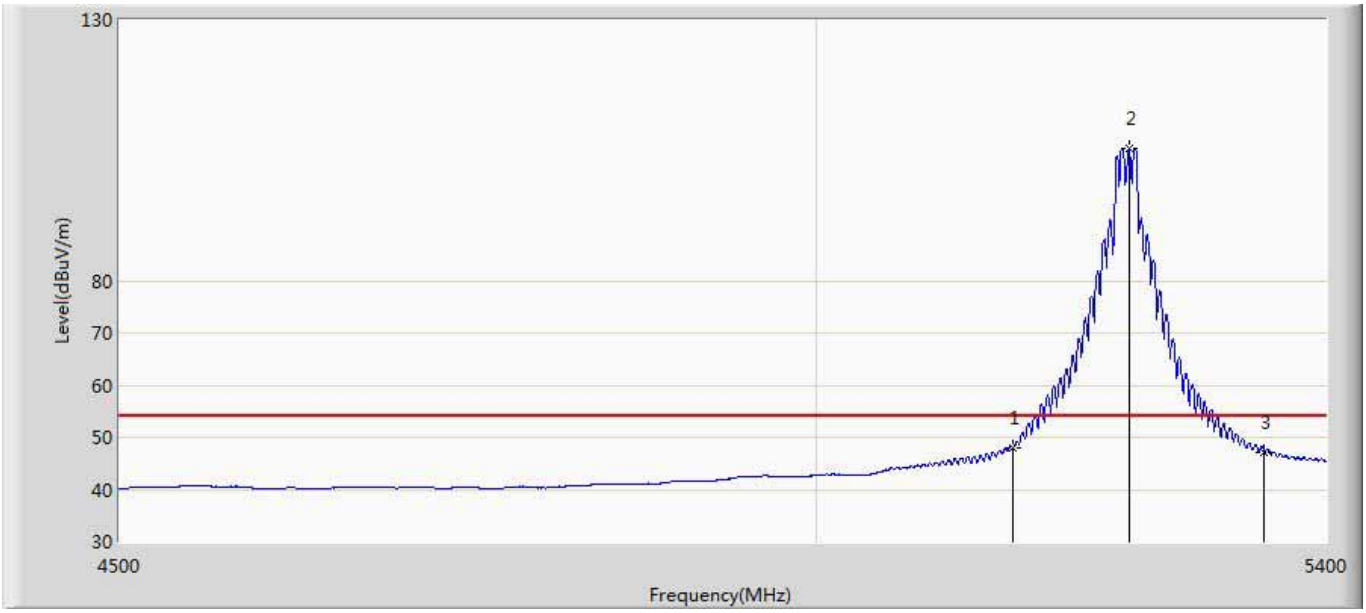
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	47.291	4.544	-6.709	54.000	42.747	AV
2	*	5215.050	98.801	56.015	N/A	N/A	42.786	AV
3		5350.000	48.136	4.943	-5.864	54.000	43.193	AV

Profile: QTK No.:1652013R	Page No.: 9
Engineer: Cloud	
Site: AC5	Time: 2016/05/28 - 16:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 1:Transmit at CH5240 by 802.11a	



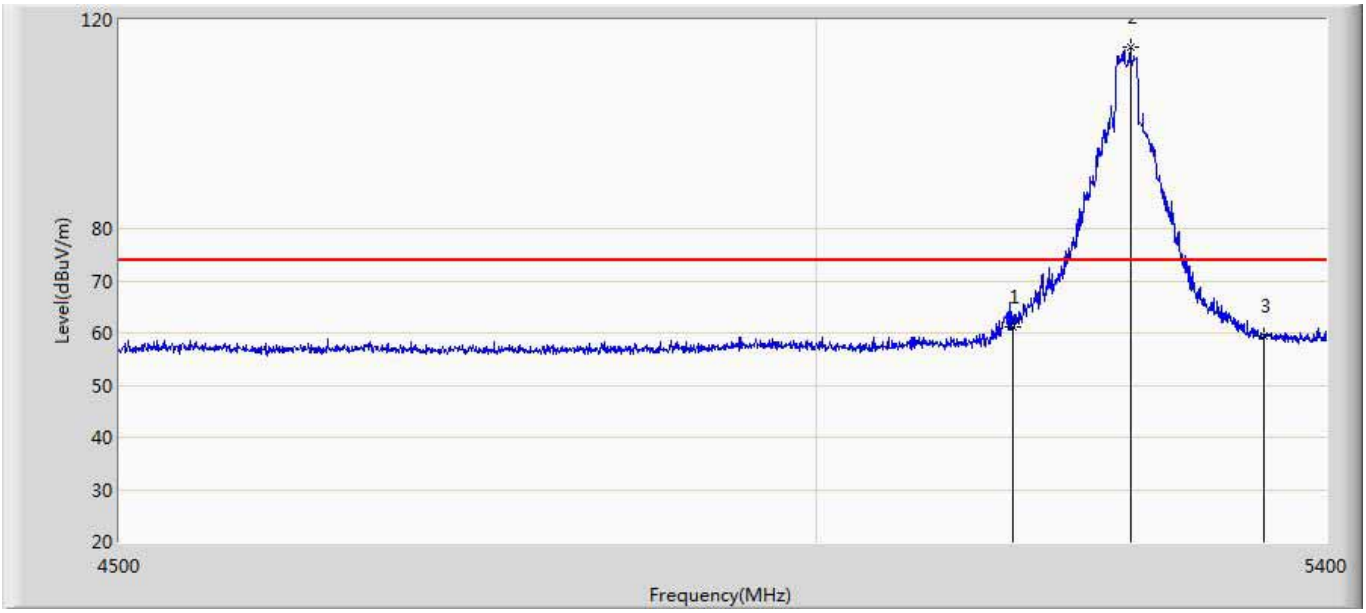
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	67.910	25.163	-6.090	74.000	42.747	PK
2	*	5236.200	120.562	77.669	N/A	N/A	42.893	PK
3		5350.000	64.649	21.456	-9.351	74.000	43.193	PK

Profile: QTK No.:1652013R	Page No.: 10
Engineer: Cloud	
Site: AC5	Time: 2016/05/28 - 16:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 1:Transmit at CH5240 by 802.11a	



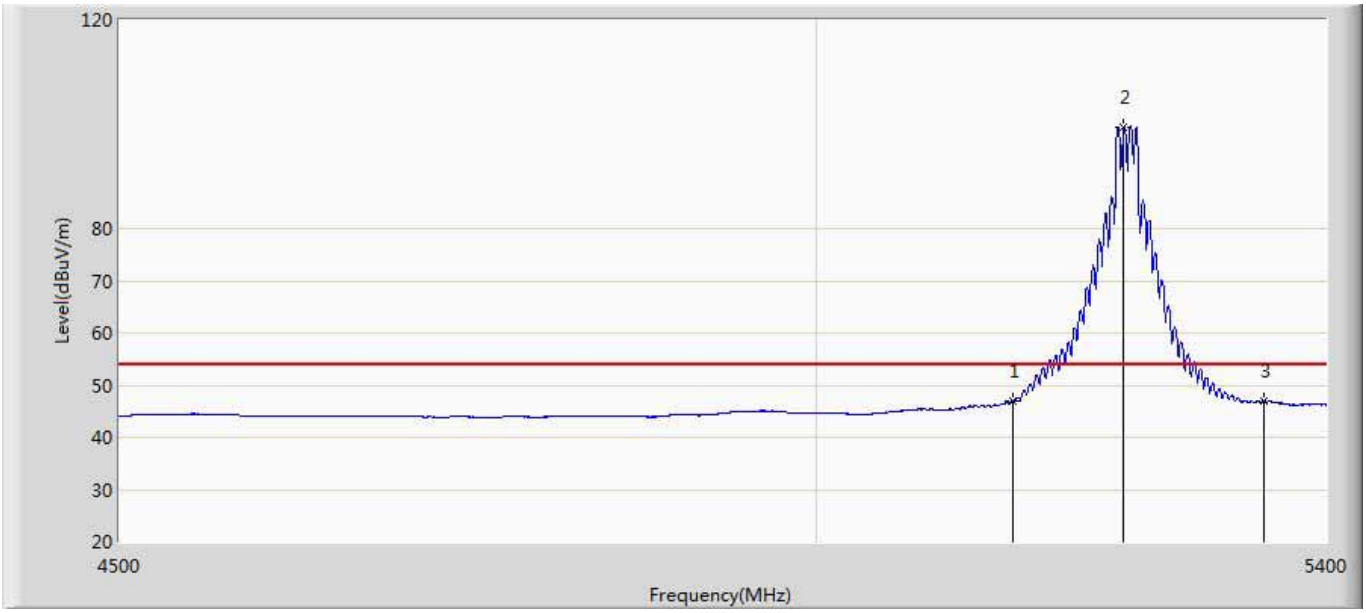
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	48.102	5.355	-5.898	54.000	42.747	AV
2	*	5241.600	105.372	62.461	N/A	N/A	42.912	AV
3		5350.000	47.221	4.028	-6.779	54.000	43.193	AV

Profile: QTK No.:1652013R	Page No.: 11
Engineer: Cloud	
Site: AC5	Time: 2016/05/28 - 16:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 1:Transmit at CH5240 by 802.11a	



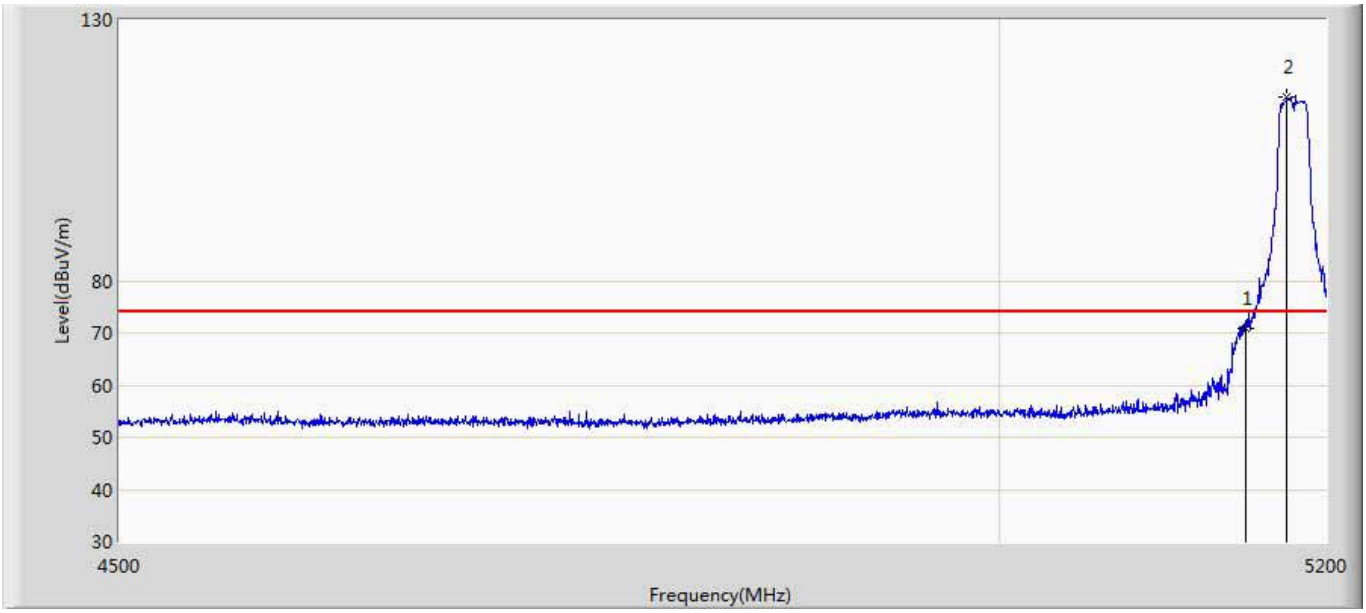
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	61.290	18.543	-12.710	74.000	42.747	PK
2	*	5242.950	114.725	71.809	N/A	N/A	42.916	PK
3		5350.000	59.307	16.114	-14.693	74.000	43.193	PK

Profile: QTK No.:1652013R	Page No.: 12
Engineer: Cloud	
Site: AC5	Time: 2016/05/28 - 16:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 1:Transmit at CH5240 by 802.11a	



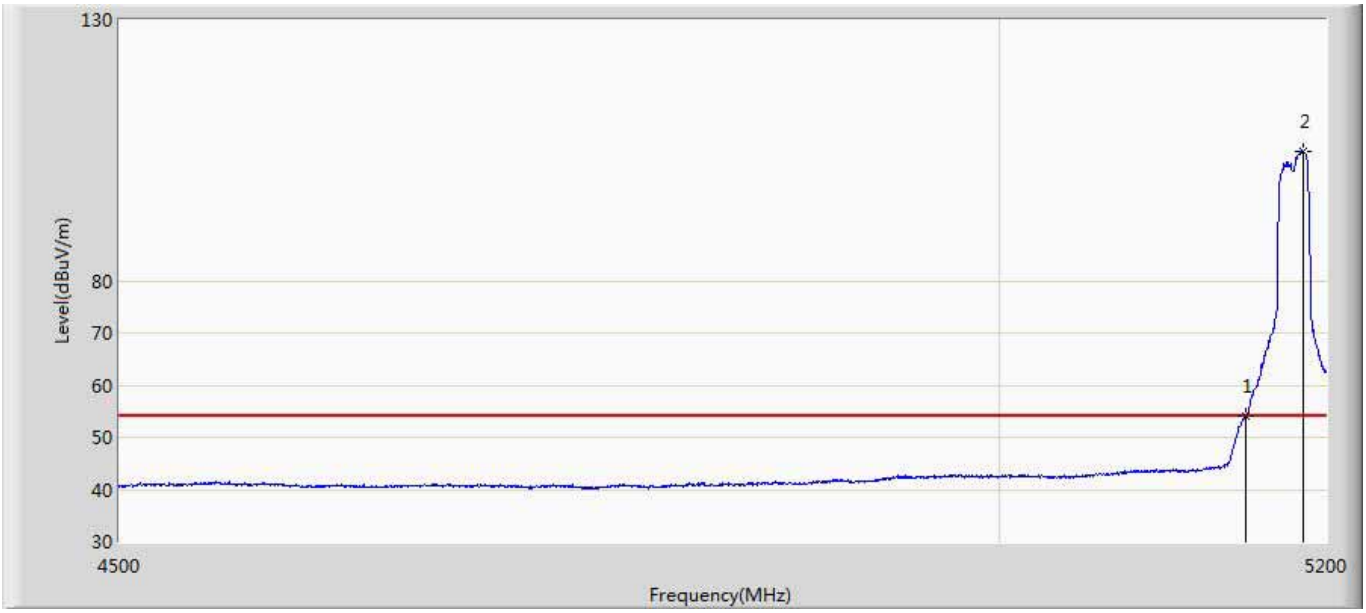
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	47.029	4.282	-6.971	54.000	42.747	AV
2	*	5237.550	99.357	56.460	N/A	N/A	42.898	AV
3		5350.000	46.983	3.790	-7.017	54.000	43.193	AV

Profile: QTK No.:1652013R	Page No.: 13
Engineer: Cloud	
Site: AC5	Time: 2016/05/28 - 17:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at CH5180 by 802.11n(20MHz)	



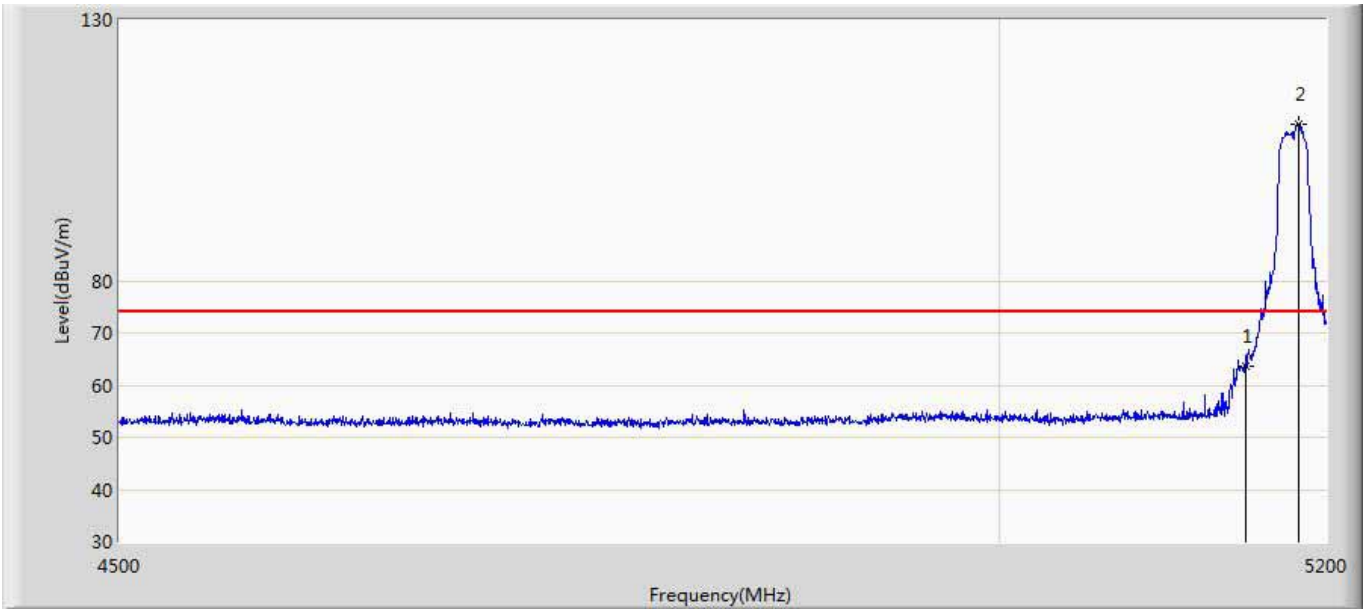
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	70.769	28.022	-3.231	74.000	42.747	PK
2	*	5175.850	115.300	72.442	N/A	N/A	42.858	PK

Profile: QTK No.:1652013R	Page No.: 14
Engineer: Cloud	
Site: AC5	Time: 2016/05/28 - 17:05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at CH5180 by 802.11n(20MHz)	



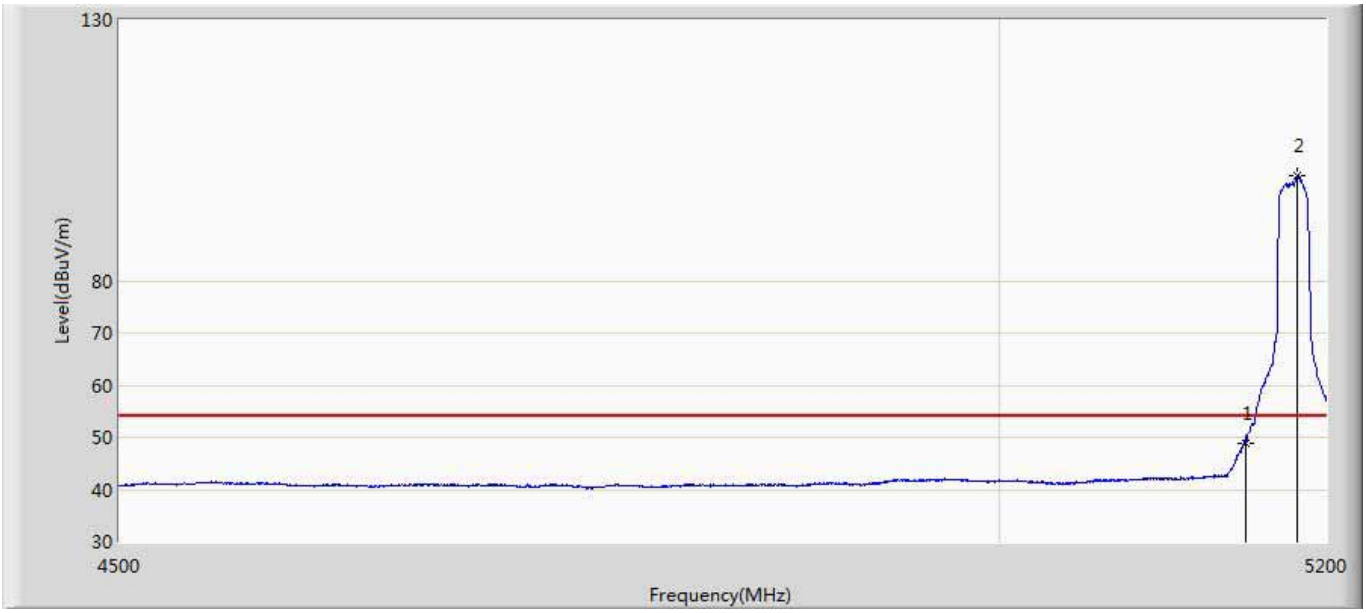
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	53.945	11.198	-0.055	54.000	42.747	AV
2	*	5185.650	104.838	61.941	N/A	N/A	42.898	AV

Profile: QTK No.:1652013R	Page No.: 15
Engineer: Cloud	
Site: AC5	Time: 2016/05/28 - 17:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at CH5180 by 802.11n(20MHz)	



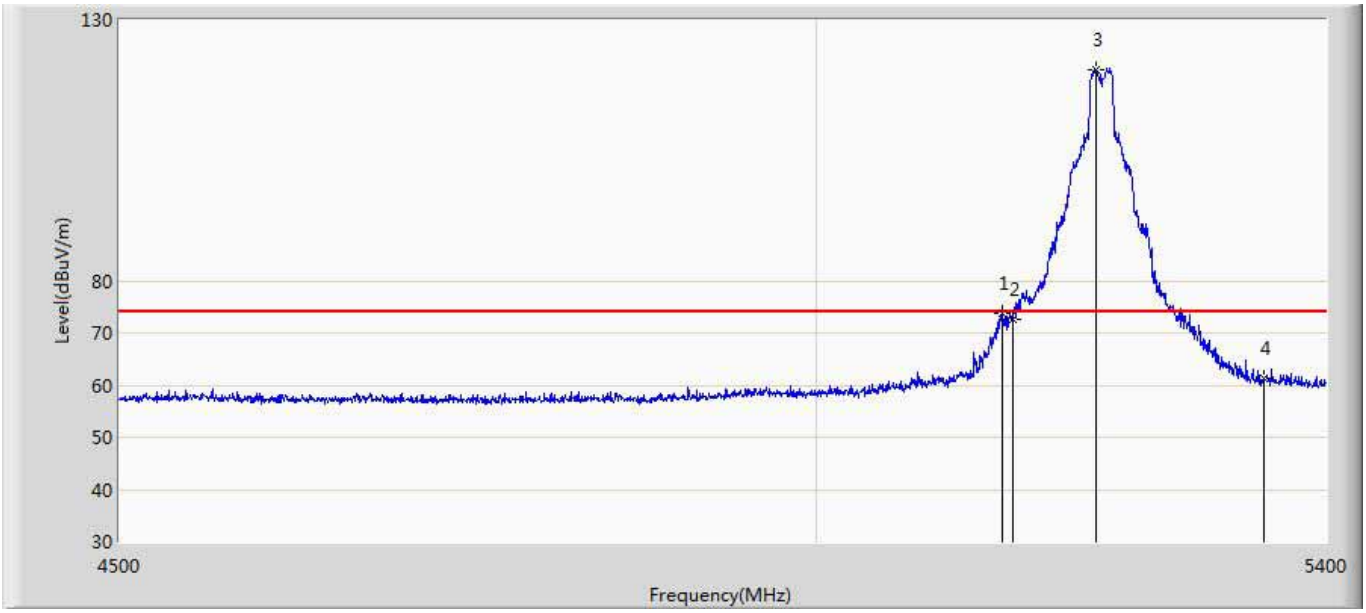
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	63.668	20.921	-10.332	74.000	42.747	PK
2	*	5183.200	109.975	67.073	N/A	N/A	42.902	PK

Profile: QTK No.:1652013R	Page No.: 16
Engineer: Cloud	
Site: AC5	Time: 2016/05/28 - 17:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at CH5180 by 802.11n(20MHz)	



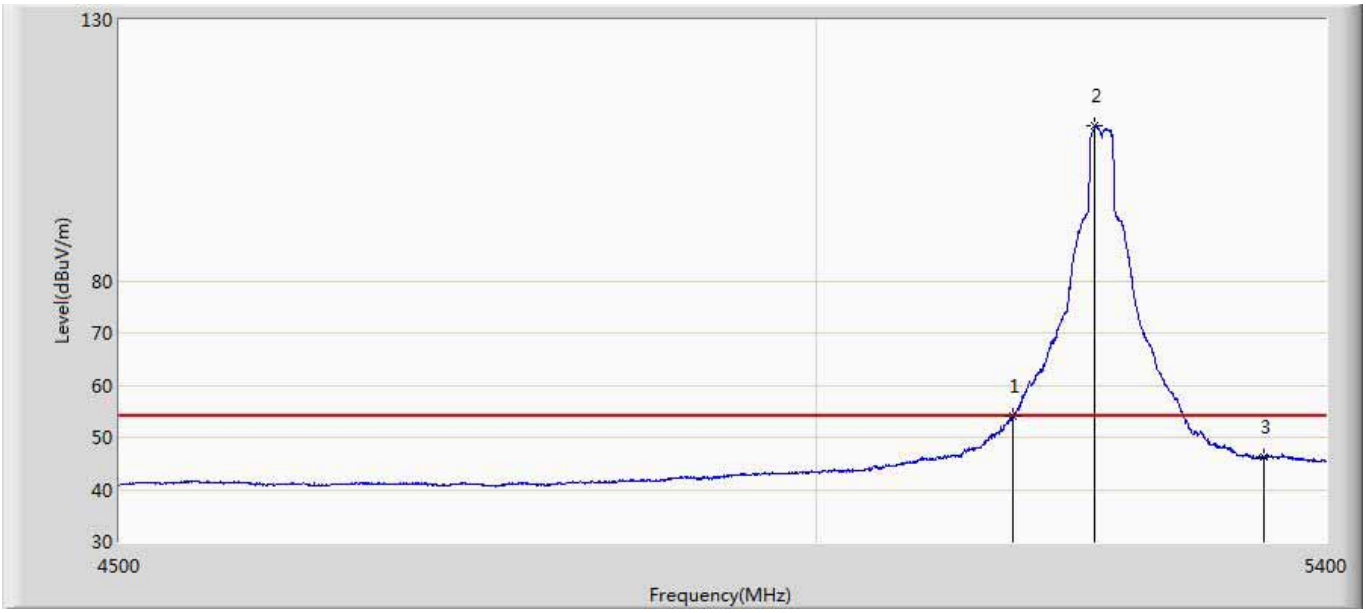
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	48.984	6.237	-5.016	54.000	42.747	AV
2	*	5181.800	100.254	57.351	N/A	N/A	42.903	AV

Profile: QTK No.:1652013R	Page No.: 17
Engineer: Cloud	
Site: AC5	Time: 2016/05/29 - 11:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at CH5220 by 802.11n(20MHz)	



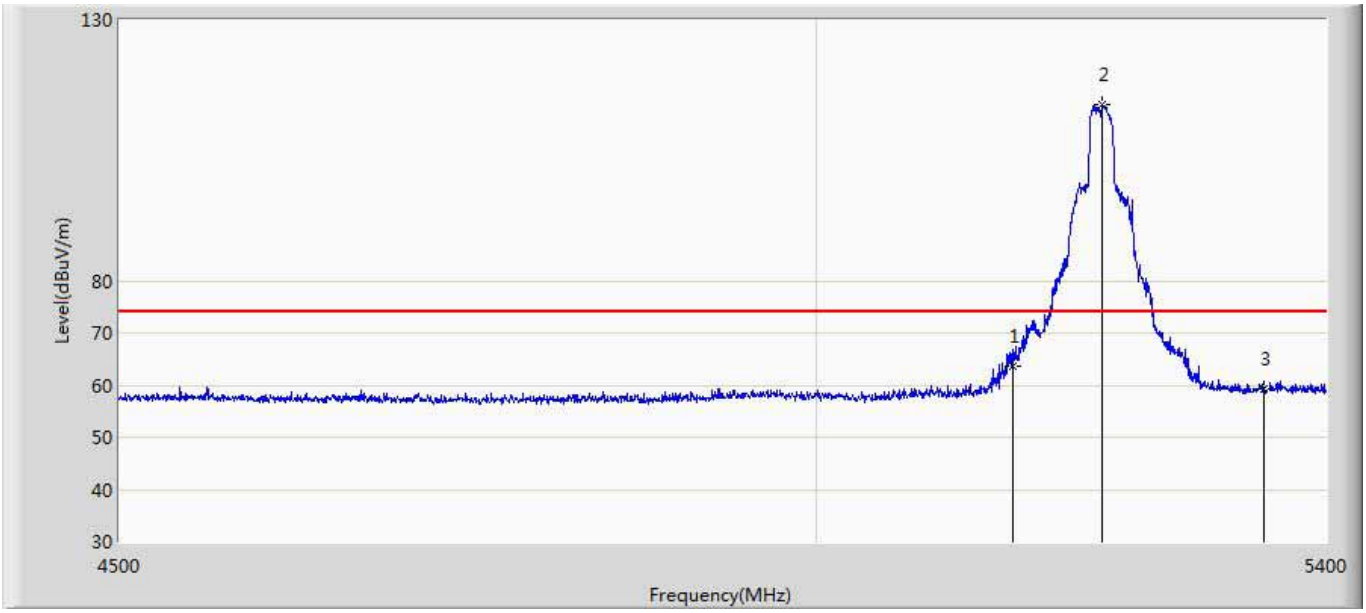
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5142.600	73.826	31.046	-0.174	74.000	42.780	PK
2		5150.000	72.703	29.956	-1.297	74.000	42.747	PK
3	*	5215.500	120.556	77.772	N/A	N/A	42.783	PK
4		5350.000	61.213	18.020	-12.787	74.000	43.193	PK

Profile: QTK No.:1652013R	Page No.: 18
Engineer: Cloud	
Site: AC5	Time: 2016/05/29 - 11:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at CH5220 by 802.11n(20MHz)	



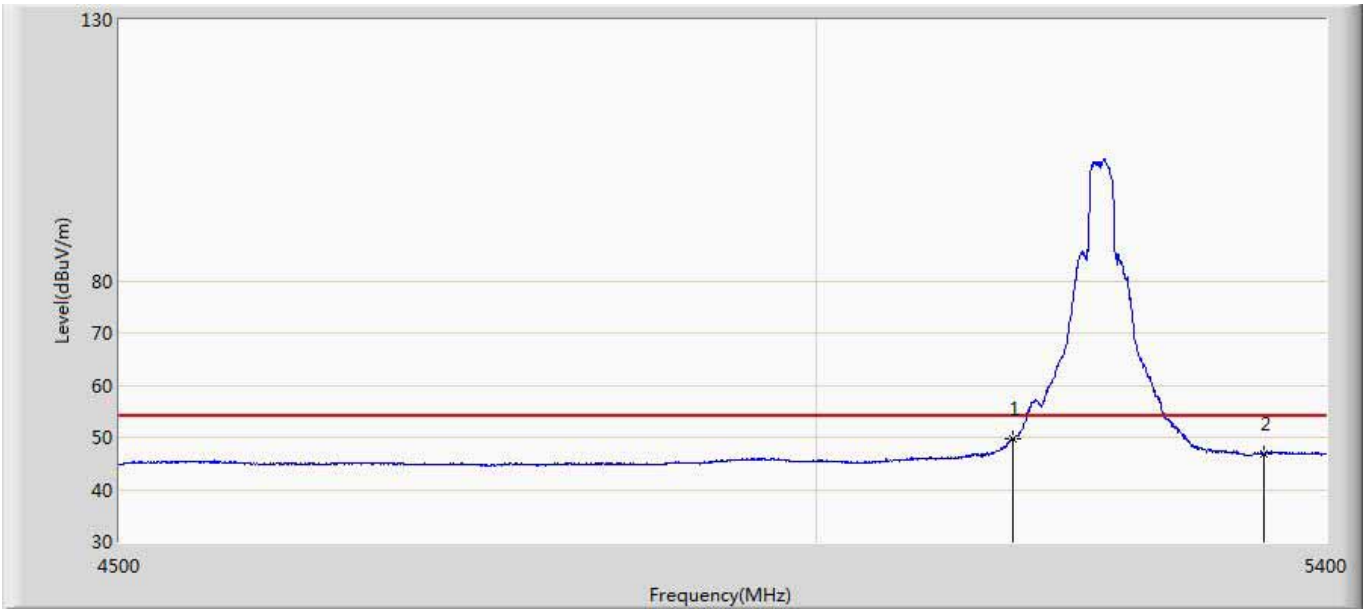
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	53.938	11.191	-0.062	54.000	42.747	AV
2	*	5214.600	109.579	66.790	N/A	N/A	42.789	AV
3		5350.000	46.223	3.030	-7.777	54.000	43.193	AV

Profile: QTK No.:1652013R	Page No.: 19
Engineer: Cloud	
Site: AC5	Time: 2016/05/29 - 12:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at CH5220 by 802.11n(20MHz)	



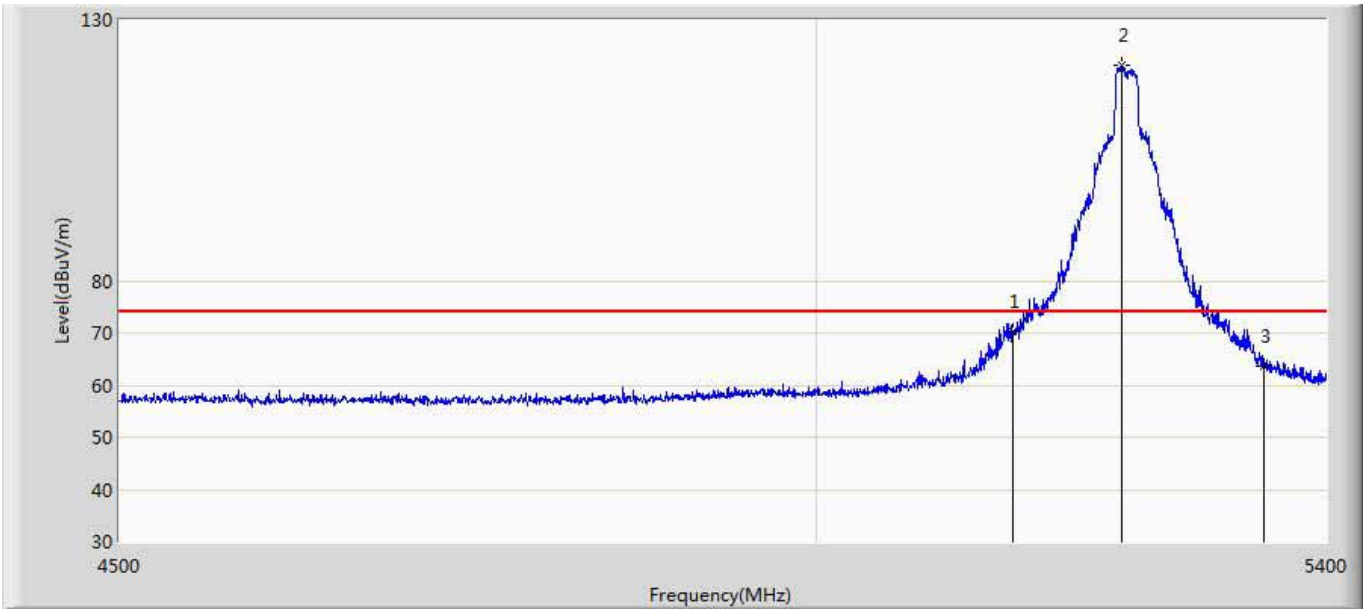
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	63.536	20.789	-10.464	74.000	42.747	PK
2	*	5220.900	113.908	71.098	N/A	N/A	42.810	PK
3		5350.000	59.343	16.150	-14.657	74.000	43.193	PK

Profile: QTK No.:1652013R	Page No.: 20
Engineer: Cloud	
Site: AC5	Time: 2016/05/29 - 12:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at CH5220 by 802.11n(20MHz)	



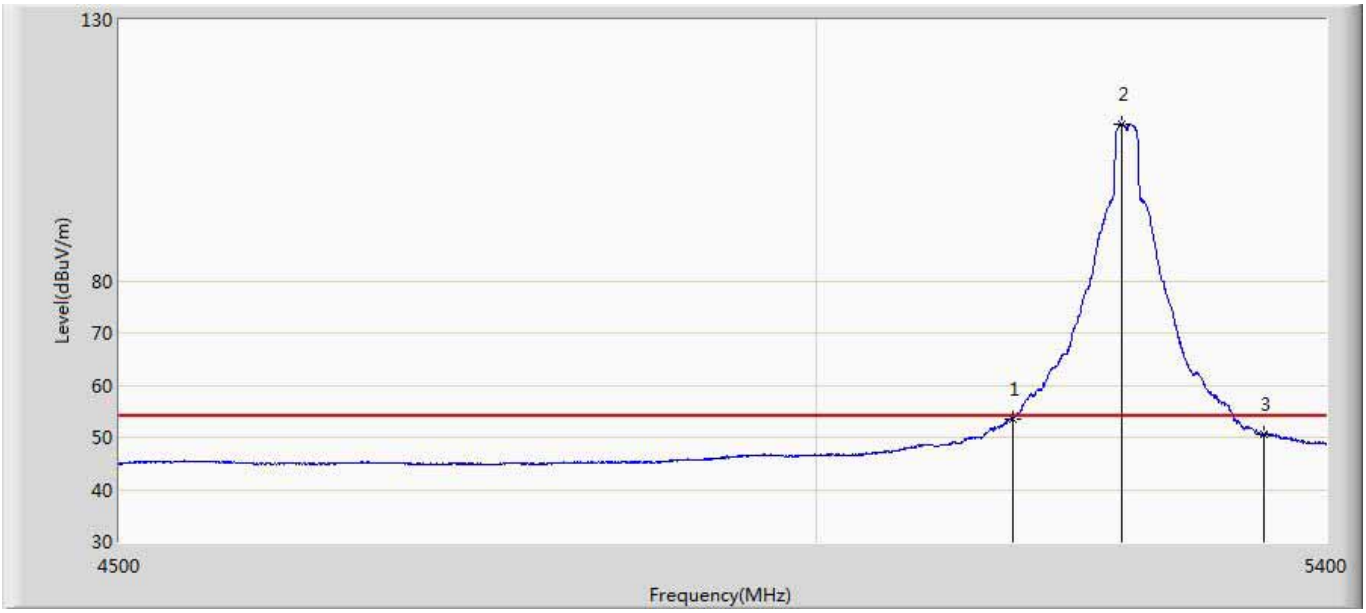
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5150.000	49.618	6.871	-4.382	54.000	42.747	AV
2		5350.000	46.907	3.714	-7.093	54.000	43.193	AV

Profile: QTK No.:1652013R	Page No.: 21
Engineer: Cloud	
Site: AC5	Time: 2016/05/29 - 12:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at CH5240 by 802.11n(20MHz)	



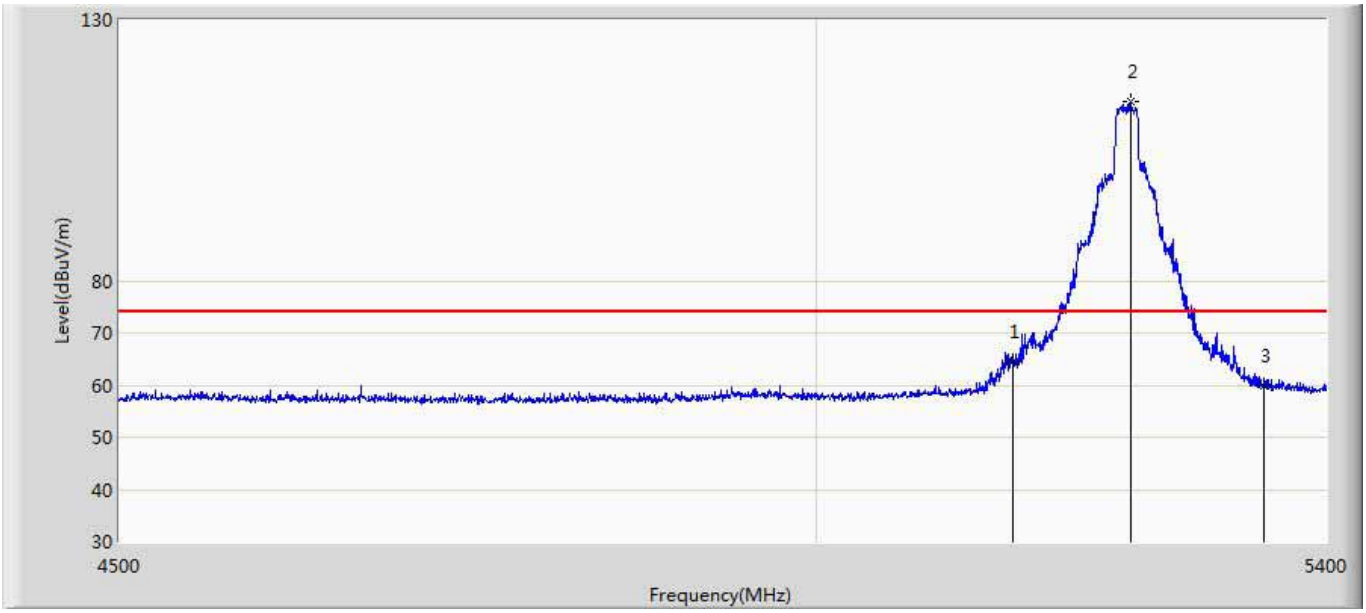
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	70.425	27.678	-3.575	74.000	42.747	PK
2	*	5235.750	121.291	78.400	N/A	N/A	42.891	PK
3		5350.000	63.520	20.327	-10.480	74.000	43.193	PK

Profile: QTK No.:1652013R	Page No.: 22
Engineer: Cloud	
Site: AC5	Time: 2016/05/29 - 12:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at CH5240 by 802.11n(20MHz)	



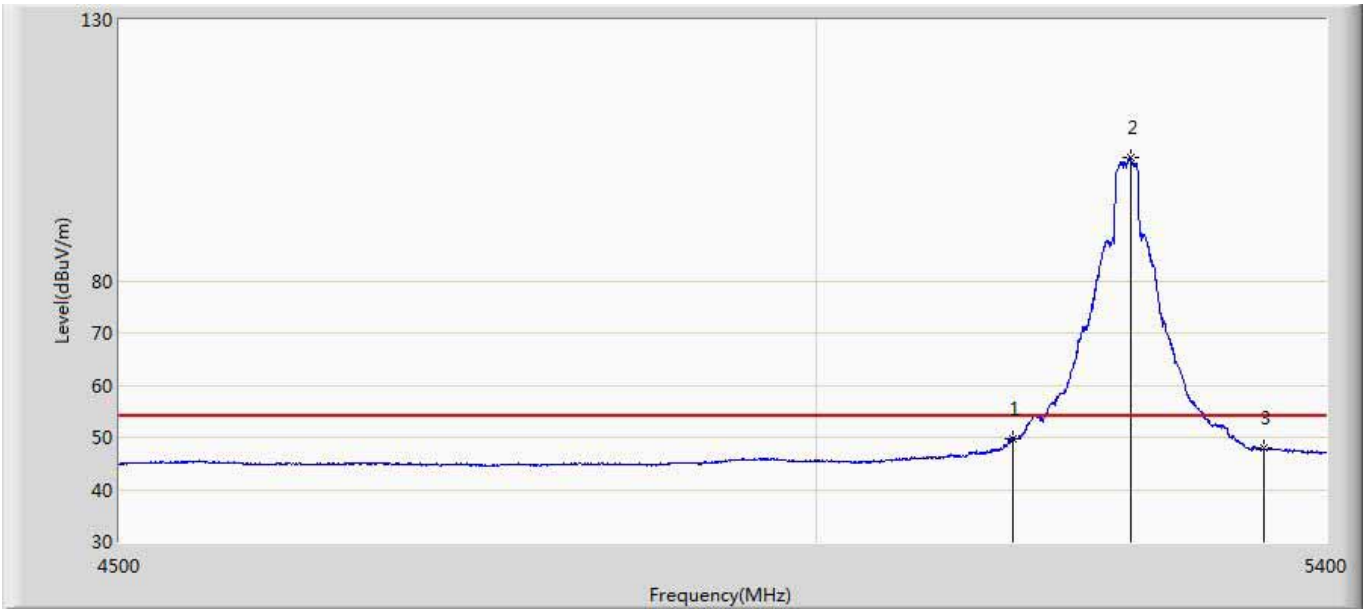
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	53.555	10.808	-0.445	54.000	42.747	AV
2	*	5235.750	110.121	67.230	N/A	N/A	42.891	AV
3		5350.000	50.541	7.348	-3.459	54.000	43.193	AV

Profile: QTK No.:1652013R	Page No.: 23
Engineer: Cloud	
Site: AC5	Time: 2016/05/29 - 12:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at CH5240 by 802.11n(20MHz)	



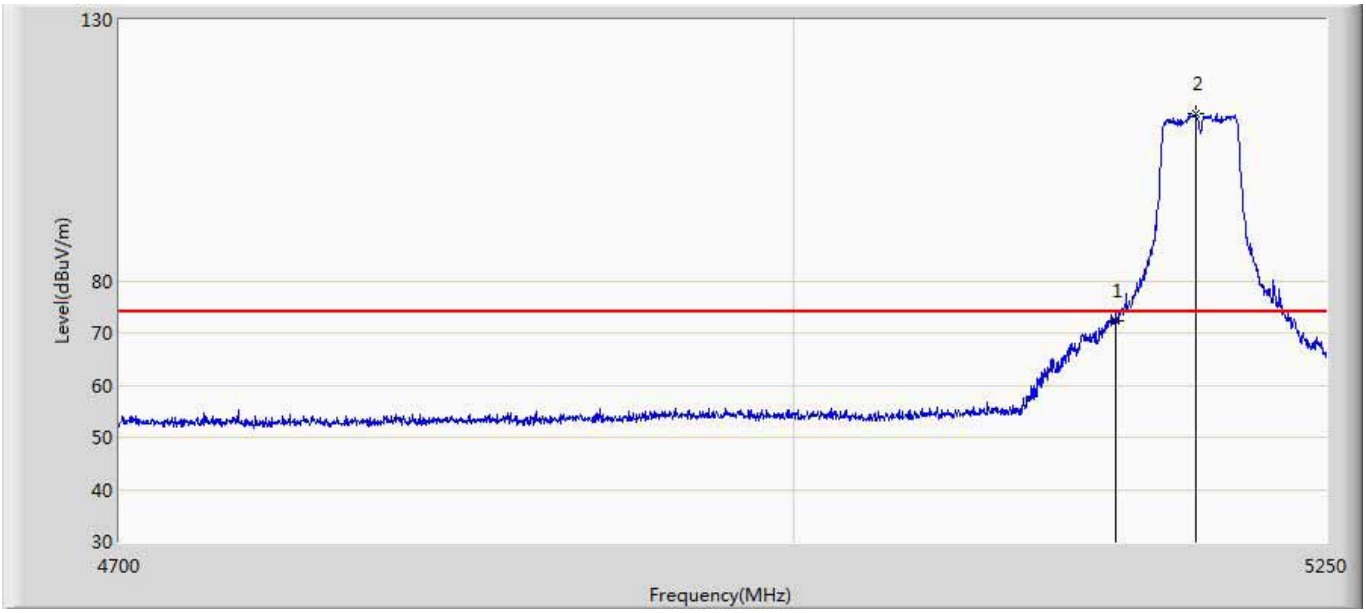
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	64.400	21.653	-9.600	74.000	42.747	PK
2	*	5242.950	114.465	71.549	N/A	N/A	42.916	PK
3		5350.000	59.760	16.567	-14.240	74.000	43.193	PK

Profile: QTK No.:1652013R	Page No.: 24
Engineer: Cloud	
Site: AC5	Time: 2016/05/29 - 12:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at CH5240 by 802.11n(20MHz)	



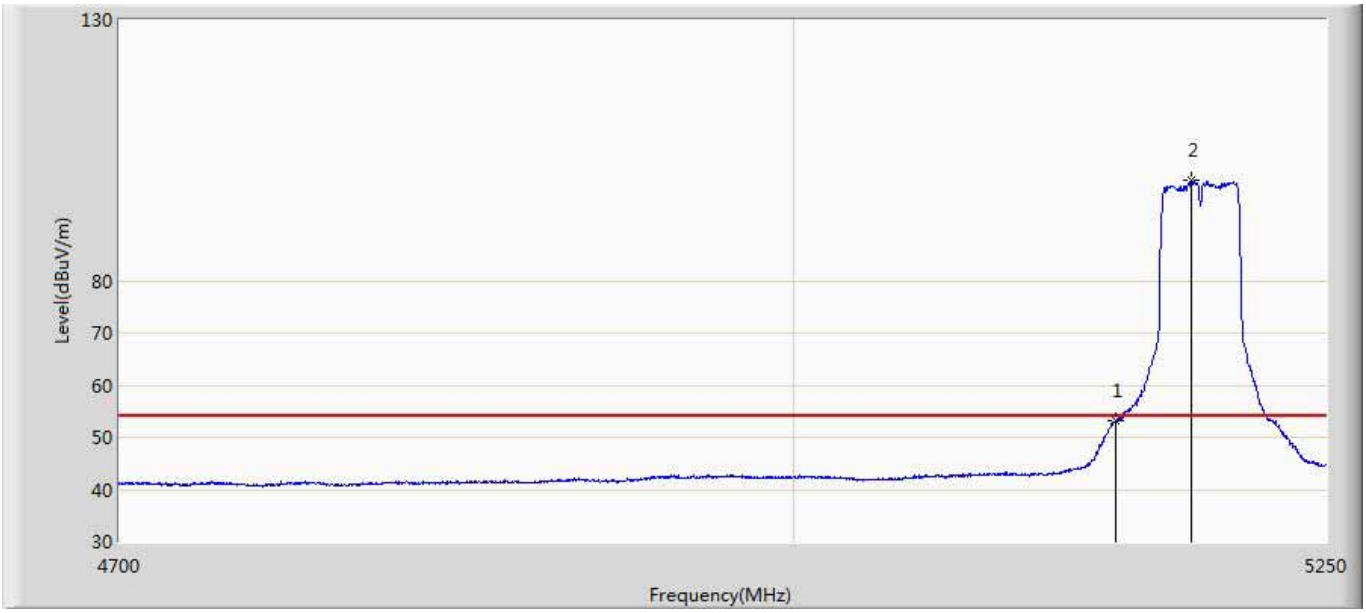
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	49.570	6.823	-4.430	54.000	42.747	AV
2	*	5242.950	103.549	60.633	N/A	N/A	42.916	AV
3		5350.000	48.004	4.811	-5.996	54.000	43.193	AV

Profile: QTK No.:1652013R	Page No.: 25
Engineer: Cloud	
Site: AC5	Time: 2016/05/29 - 12:53
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 3:Transmit at CH5190 by 802.11n(40MHz)	



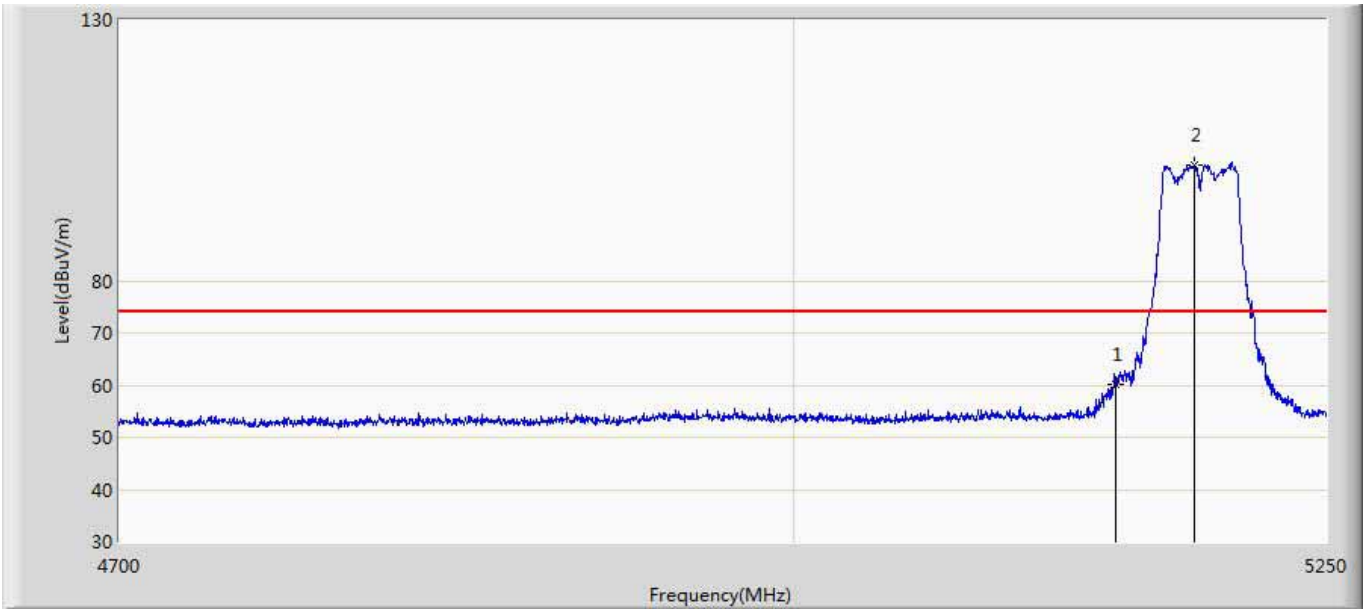
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	72.214	29.467	-1.786	74.000	42.747	PK
2	*	5187.850	112.102	69.209	N/A	N/A	42.894	PK

Profile: QTK No.:1652013R	Page No.: 26
Engineer: Cloud	
Site: AC5	Time: 2016/05/29 - 13:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 3:Transmit at CH5190 by 802.11n(40MHz)	



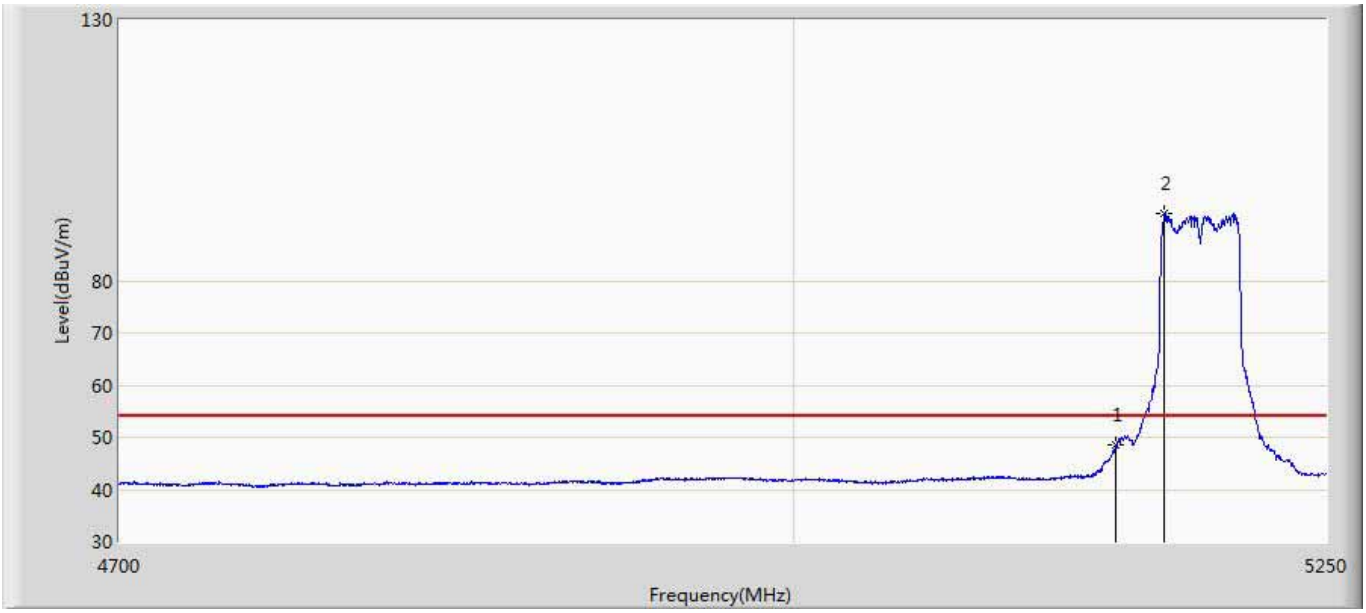
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	53.327	10.580	-0.673	54.000	42.747	AV
2	*	5185.650	99.141	56.244	N/A	N/A	42.898	AV

Profile: QTK No.:1652013R	Page No.: 27
Engineer: Cloud	
Site: AC5	Time: 2016/05/29 - 13:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 3:Transmit at CH5190 by 802.11n(40MHz)	



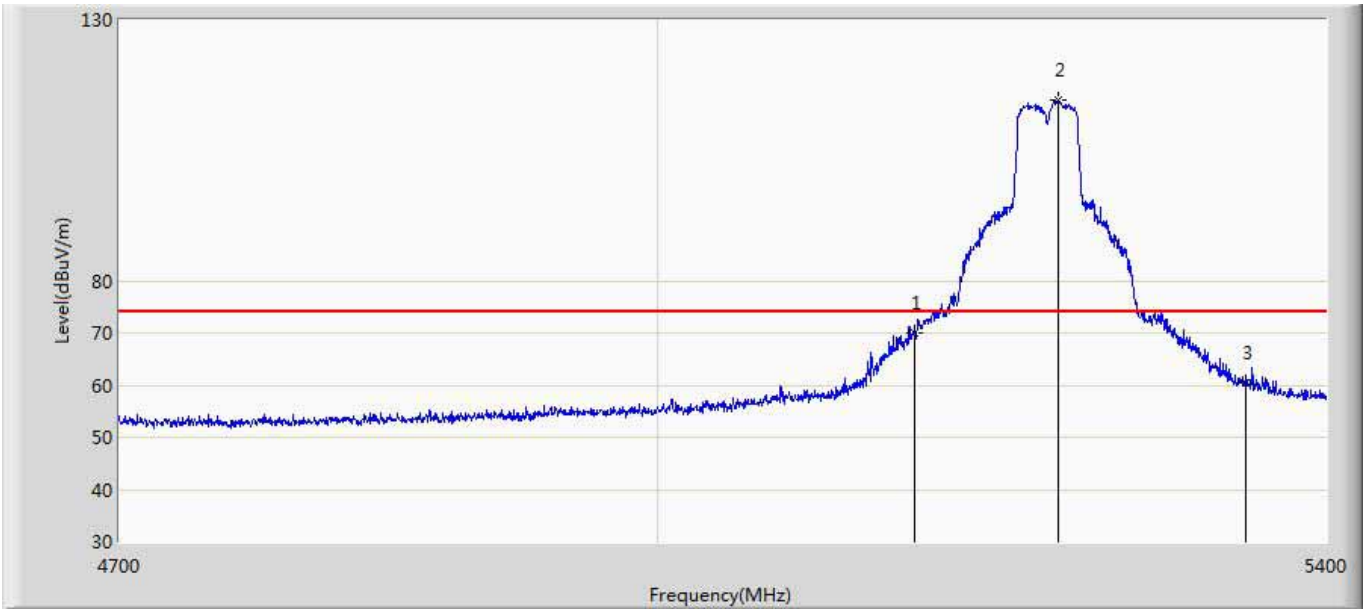
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	60.164	17.417	-13.836	74.000	42.747	PK
2	*	5186.750	102.208	59.313	N/A	N/A	42.896	PK

Profile: QTK No.:1652013R	Page No.: 28
Engineer: Cloud	
Site: AC5	Time: 2016/05/29 - 13:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 3:Transmit at CH5190 by 802.11n(40MHz)	



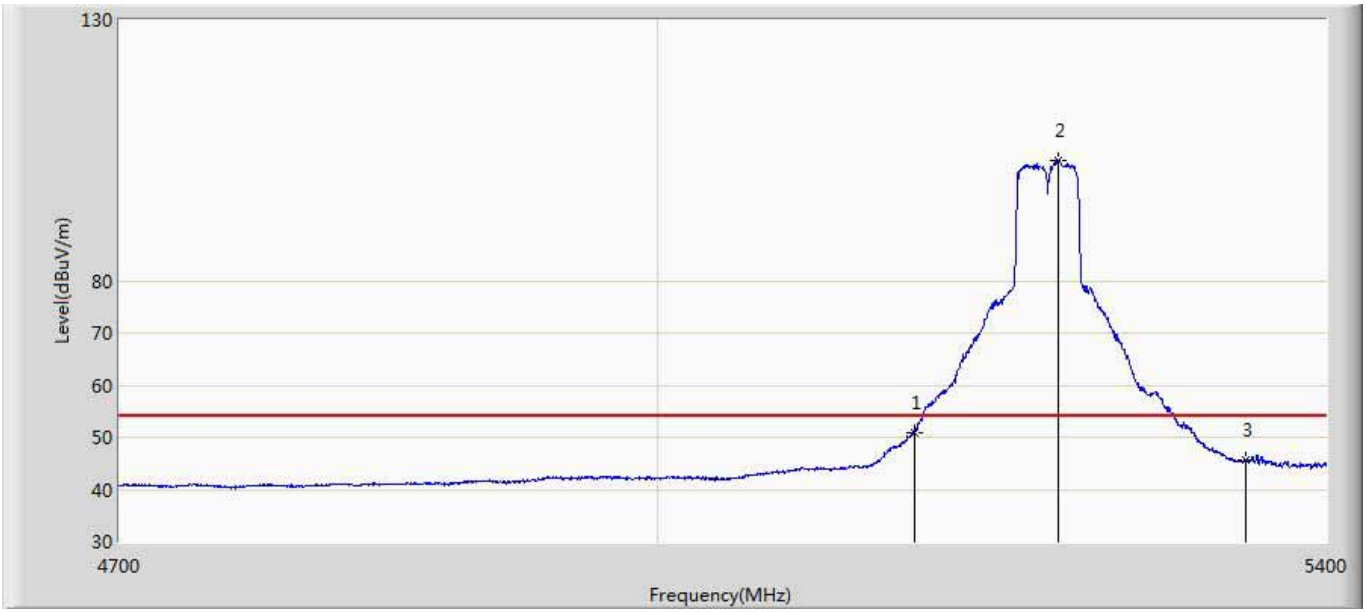
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	48.502	5.755	-5.498	54.000	42.747	AV
2	*	5173.000	92.919	50.082	N/A	N/A	42.837	AV

Profile: QTK No.:1652013R	Page No.: 29
Engineer: Cloud	
Site: AC5	Time: 2016/05/30 - 14:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 3:Transmit at CH5230 by 802.11n(40MHz)	



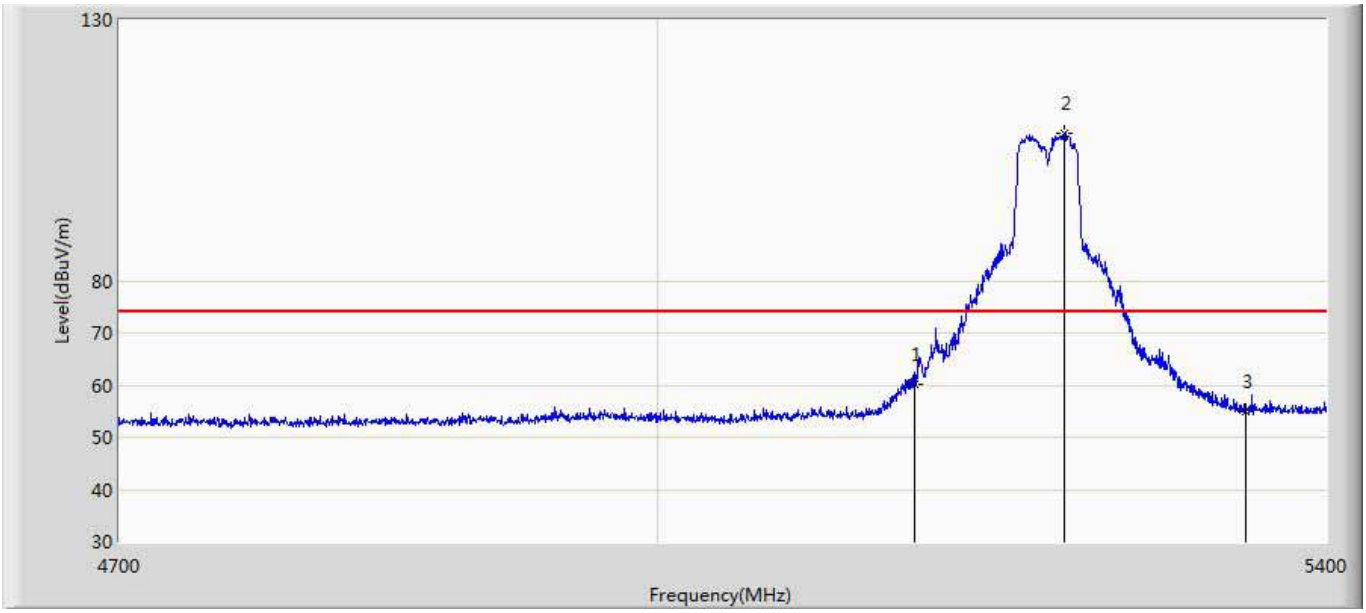
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	69.871	27.124	-4.129	74.000	42.747	PK
2	*	5235.850	114.703	71.811	N/A	N/A	42.892	PK
3		5350.000	60.294	17.101	-13.706	74.000	43.193	PK

Profile: QTK No.:1652013R	Page No.: 30
Engineer: Cloud	
Site: AC5	Time: 2016/05/30 - 14:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 3:Transmit at CH5230 by 802.11n(40MHz)	



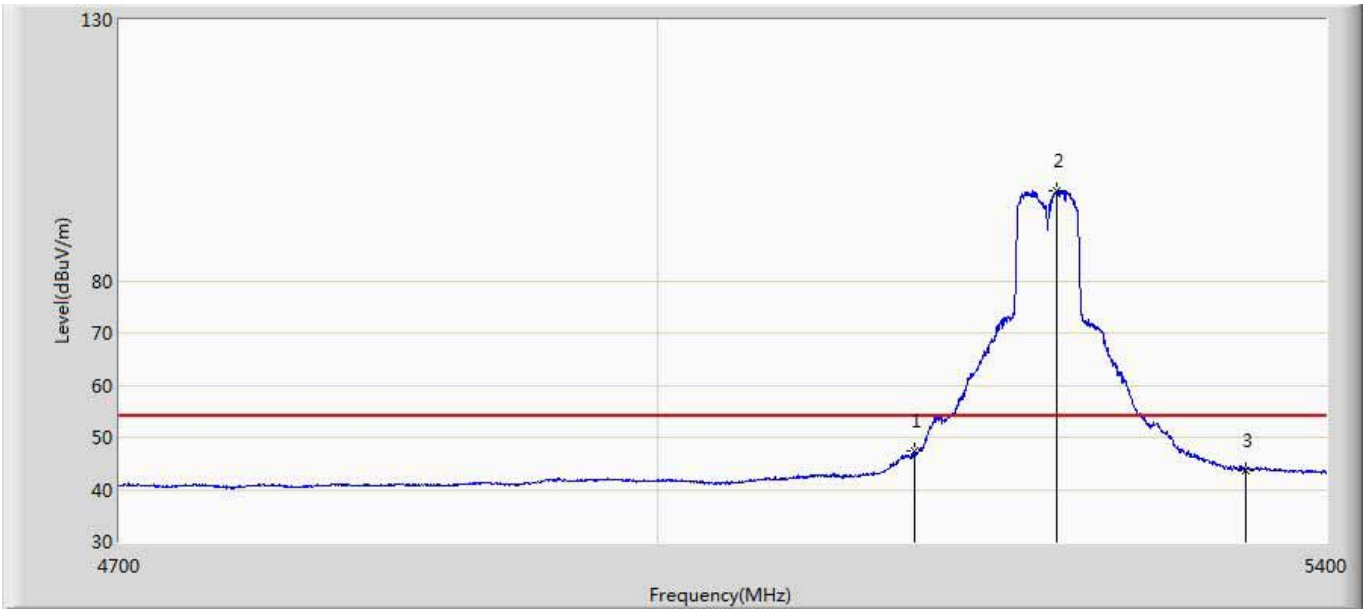
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	50.868	8.121	-3.132	54.000	42.747	AV
2	*	5236.550	103.092	60.198	N/A	N/A	42.894	AV
3		5350.000	45.558	2.365	-8.442	54.000	43.193	AV

Profile: QTK No.:1652013R	Page No.: 31
Engineer: Cloud	
Site: AC5	Time: 2016/05/30 - 14:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 3:Transmit at CH5230 by 802.11n(40MHz)	



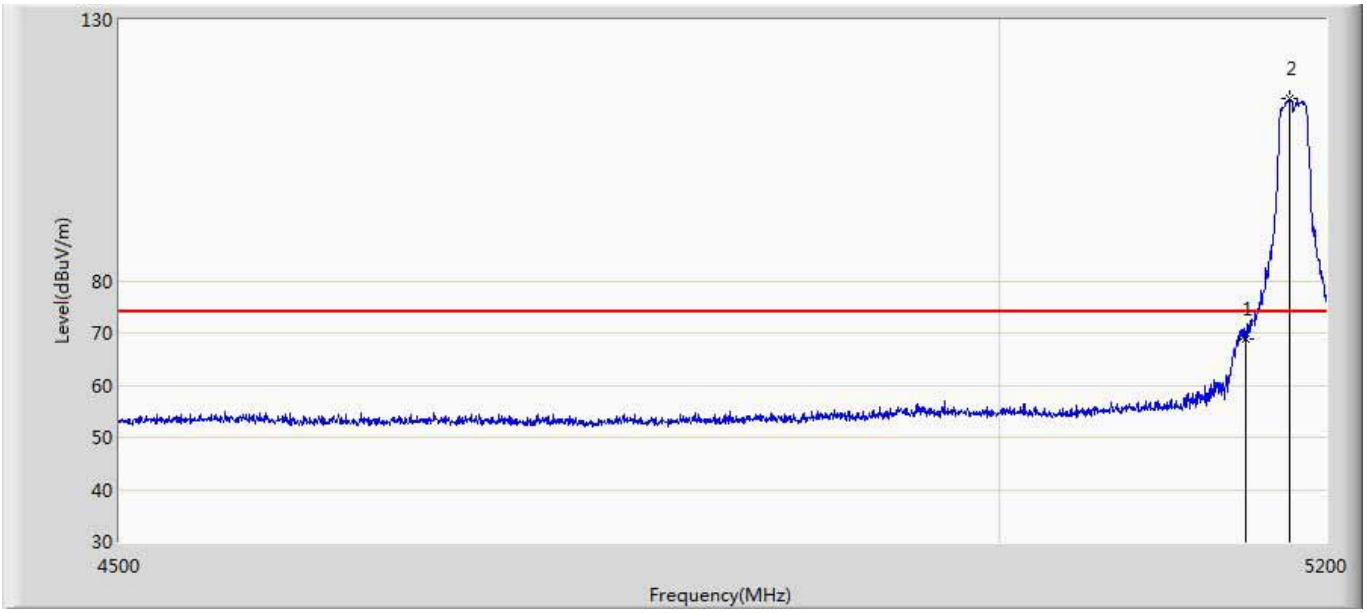
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	60.273	17.526	-13.727	74.000	42.747	PK
2	*	5240.050	108.196	65.290	N/A	N/A	42.906	PK
3		5350.000	54.926	11.733	-19.074	74.000	43.193	PK

Profile: QTK No.:1652013R	Page No.: 32
Engineer: Cloud	
Site: AC5	Time: 2016/05/30 - 14:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 3:Transmit at CH5230 by 802.11n(40MHz)	



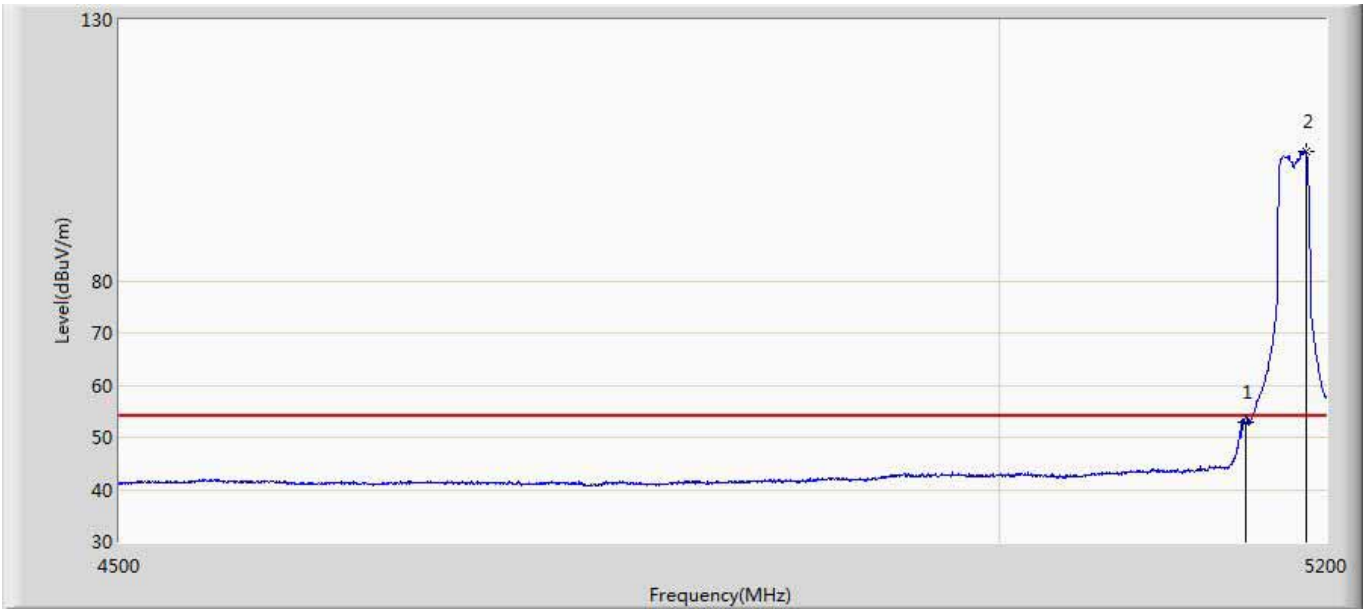
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	47.322	4.575	-6.678	54.000	42.747	AV
2	*	5235.500	97.329	54.439	N/A	N/A	42.890	AV
3		5350.000	43.748	0.555	-10.252	54.000	43.193	AV

Profile: QTK No.:1652013R	Page No.: 33
Engineer: Cloud	
Site: AC5	Time: 2016/05/30 - 14:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at CH5180 by 802.11ac(20MHz)	



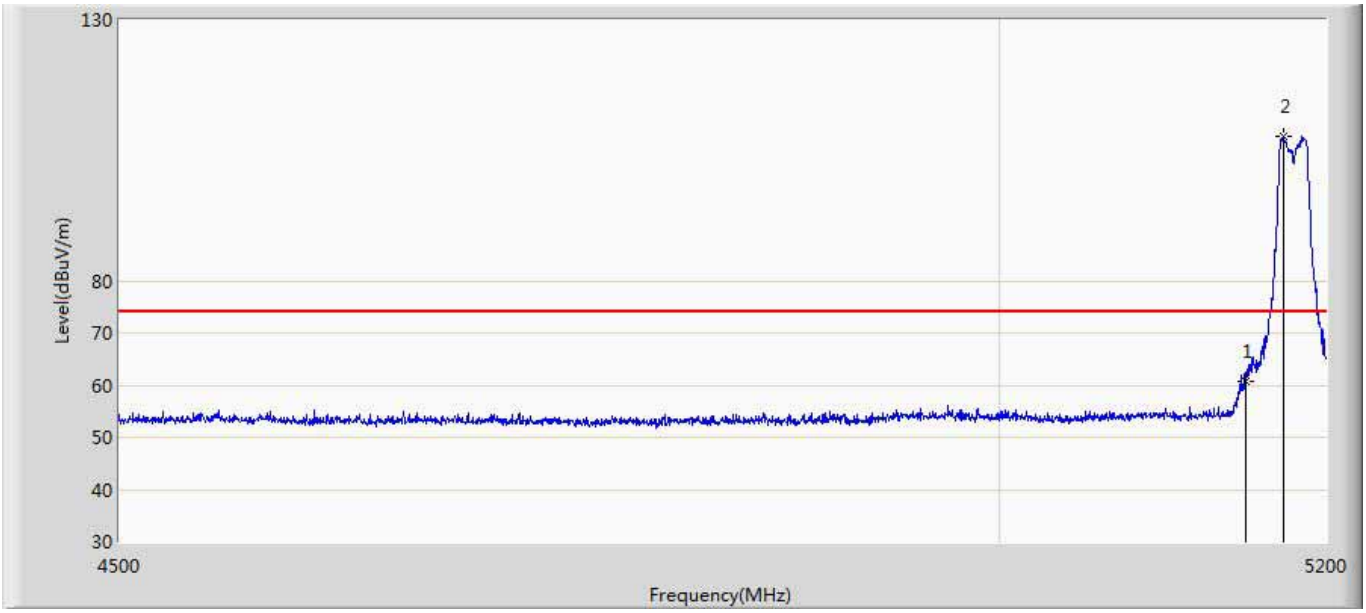
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	68.975	26.228	-5.025	74.000	42.747	PK
2	*	5177.250	114.815	71.946	N/A	N/A	42.868	PK

Profile: QTK No.:1652013R	Page No.: 34
Engineer: Cloud	
Site: AC5	Time: 2016/05/30 - 14:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at CH5180 by 802.11ac(20MHz)	



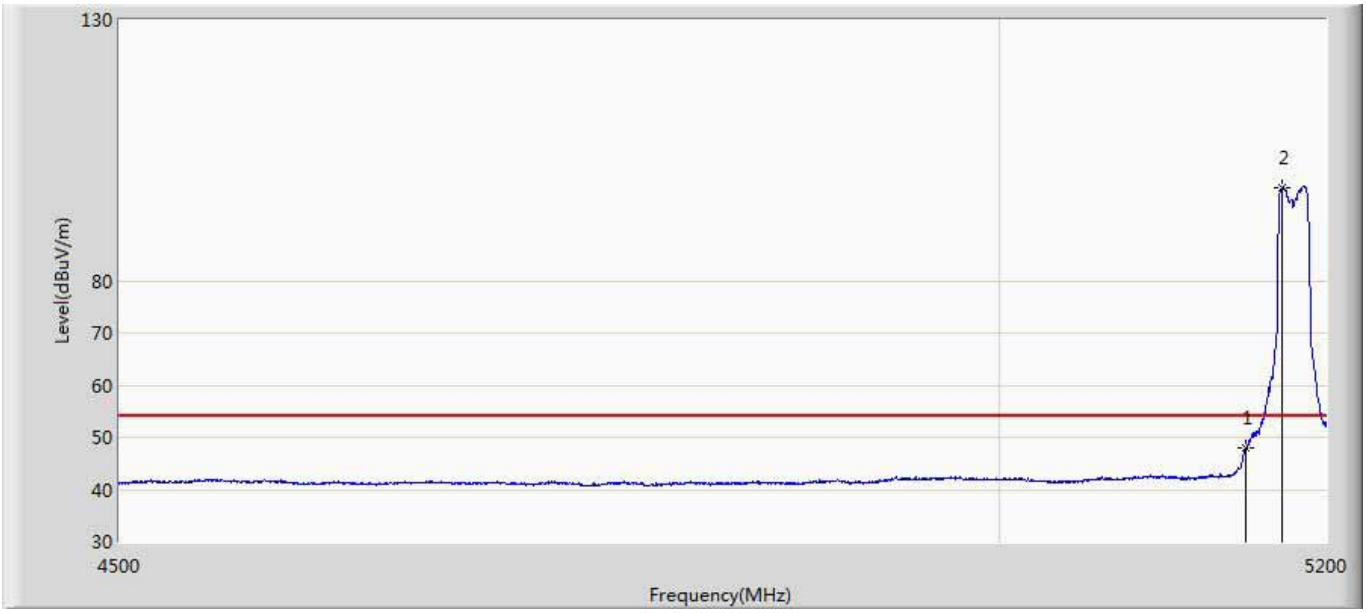
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	53.584	10.837	-0.416	54.000	42.747	AV
2	*	5187.750	104.910	62.016	N/A	N/A	42.894	AV

Profile: QTK No.:1652013R	Page No.: 35
Engineer: Cloud	
Site: AC5	Time: 2016/05/30 - 14:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at CH5180 by 802.11ac(20MHz)	



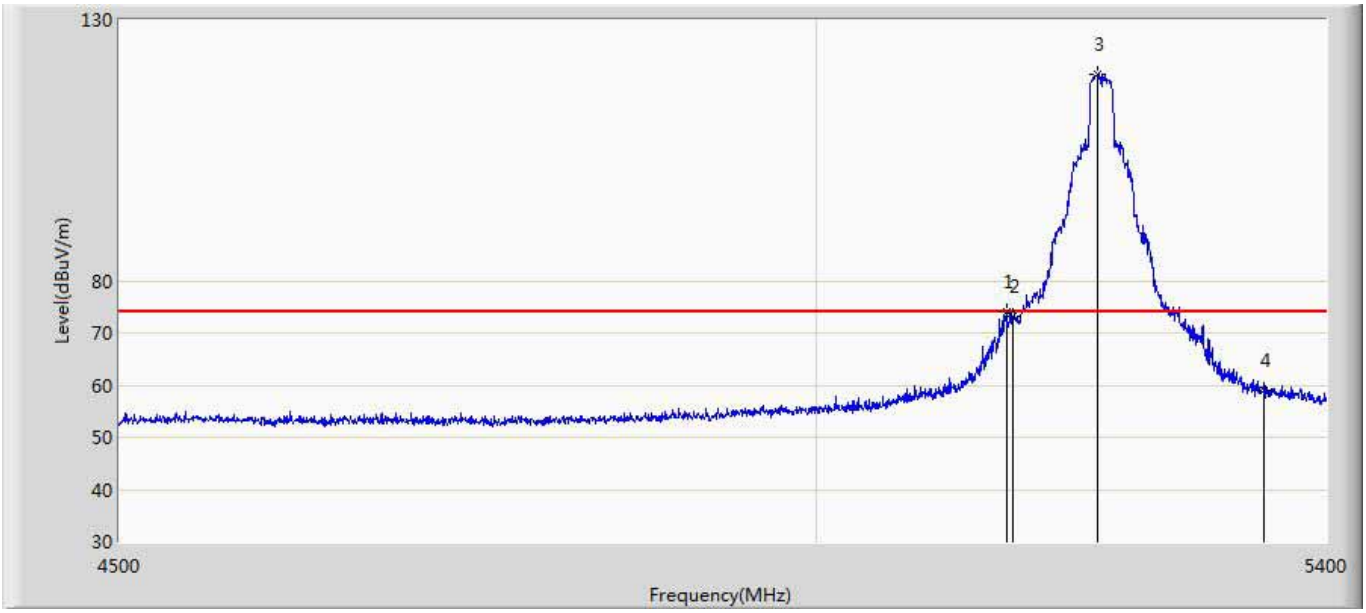
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	60.773	18.026	-13.227	74.000	42.747	PK
2	*	5173.750	107.771	64.928	N/A	N/A	42.843	PK

Profile: QTK No.:1652013R	Page No.: 36
Engineer: Cloud	
Site: AC5	Time: 2016/05/30 - 14:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at CH5180 by 802.11ac(20MHz)	



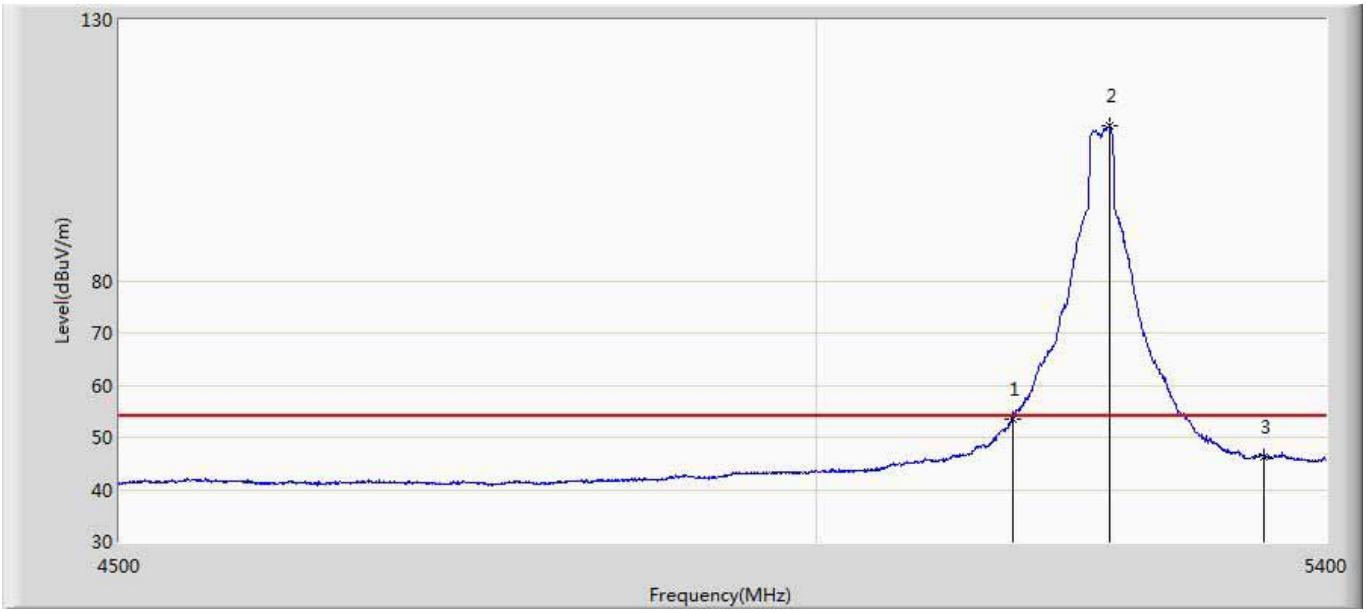
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	48.063	5.316	-5.937	54.000	42.747	AV
2	*	5172.350	97.920	55.088	N/A	N/A	42.832	AV

Profile: QTK No.:1652013R	Page No.: 37
Engineer: Cloud	
Site: AC5	Time: 2016/05/30 - 15:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at CH5220 by 802.11ac(20MHz)	



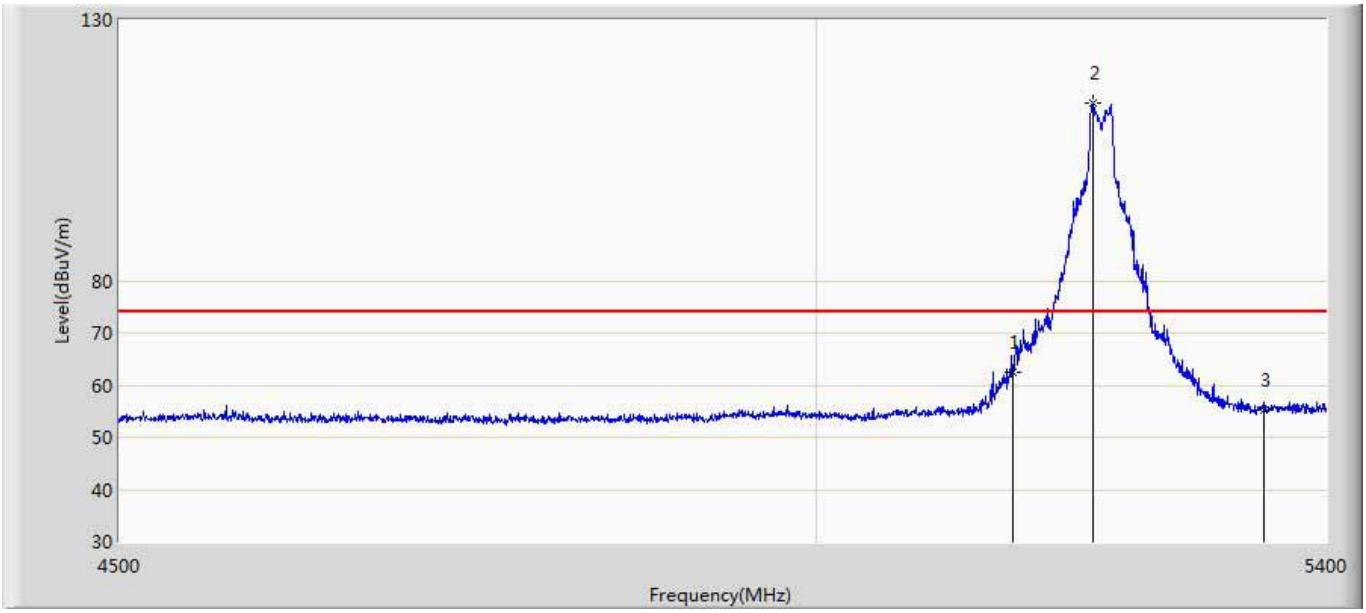
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5145.750	73.959	31.201	-0.041	74.000	42.759	PK
2		5150.000	73.154	30.407	-0.846	74.000	42.747	PK
3	*	5216.400	119.689	76.906	N/A	N/A	42.783	PK
4		5350.000	58.867	15.674	-15.133	74.000	43.193	PK

Profile: QTK No.:1652013R	Page No.: 38
Engineer: Cloud	
Site: AC5	Time: 2016/05/30 - 15:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at CH5220 by 802.11ac(20MHz)	



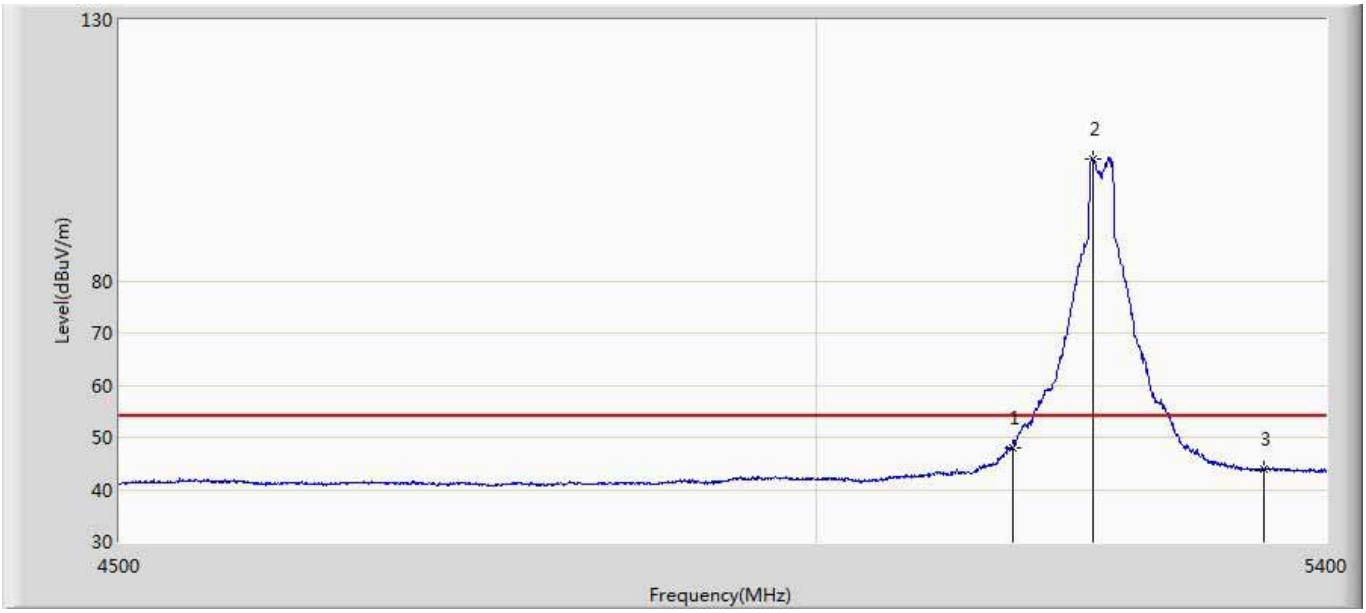
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	53.414	10.667	-0.586	54.000	42.747	AV
2	*	5225.850	109.667	66.828	N/A	N/A	42.839	AV
3		5350.000	46.330	3.137	-7.670	54.000	43.193	AV

Profile: QTK No.:1652013R	Page No.: 39
Engineer: Cloud	
Site: AC5	Time: 2016/05/30 - 15:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at CH5220 by 802.11ac(20MHz)	



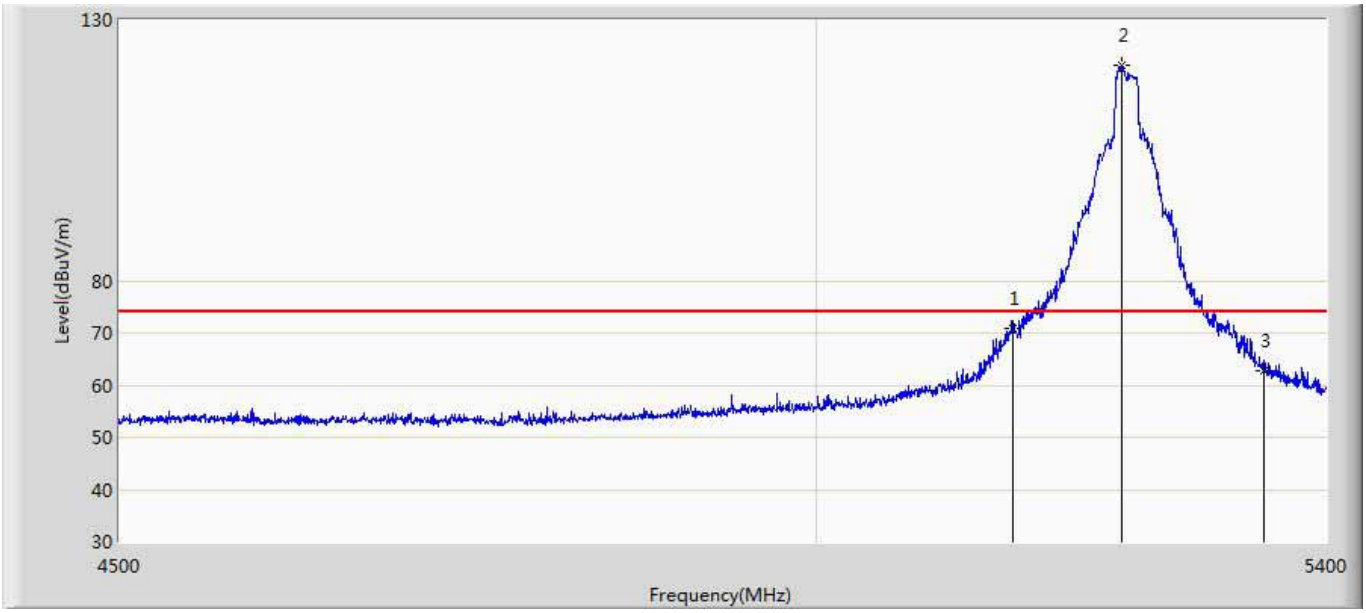
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	62.542	19.795	-11.458	74.000	42.747	PK
2	*	5212.800	114.155	71.357	N/A	N/A	42.799	PK
3		5350.000	55.318	12.125	-18.682	74.000	43.193	PK

Profile: QTK No.:1652013R	Page No.: 40
Engineer: Cloud	
Site: AC5	Time: 2016/05/30 - 15:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at CH5220 by 802.11ac(20MHz)	



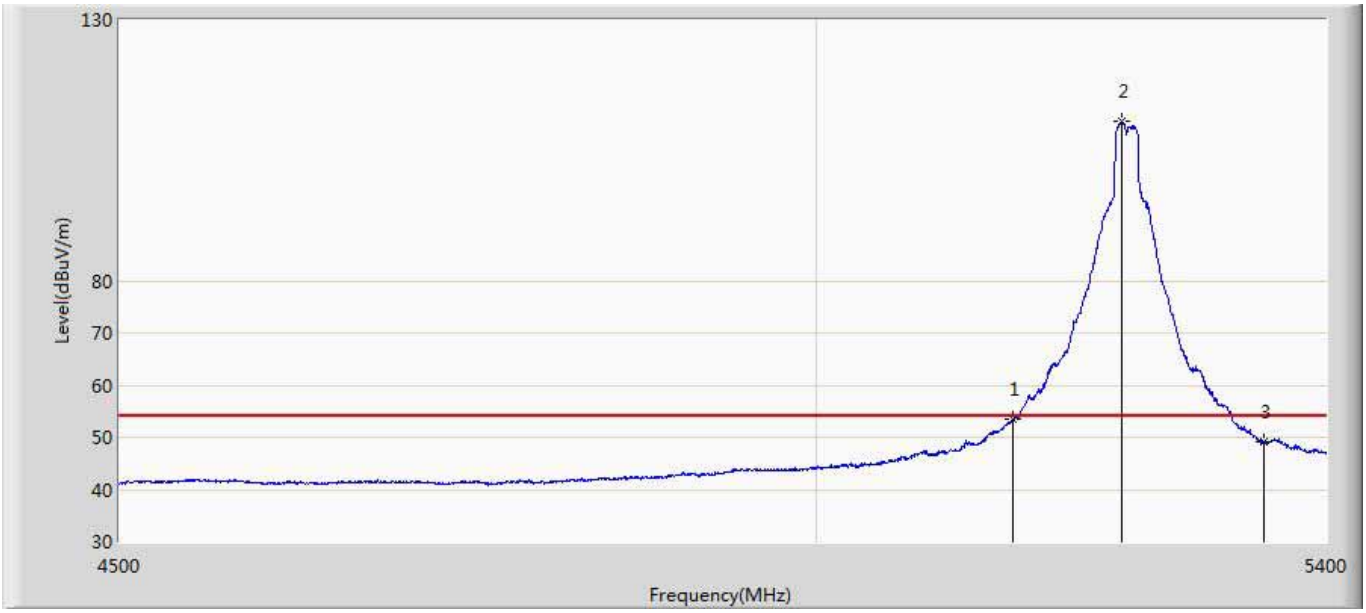
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	48.082	5.335	-5.918	54.000	42.747	AV
2	*	5213.250	103.393	60.597	N/A	N/A	42.796	AV
3		5350.000	43.981	0.788	-10.019	54.000	43.193	AV

Profile: QTK No.:1652013R	Page No.: 41
Engineer: Cloud	
Site: AC5	Time: 2016/05/30 - 15:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at CH5240 by 802.11ac(20MHz)	



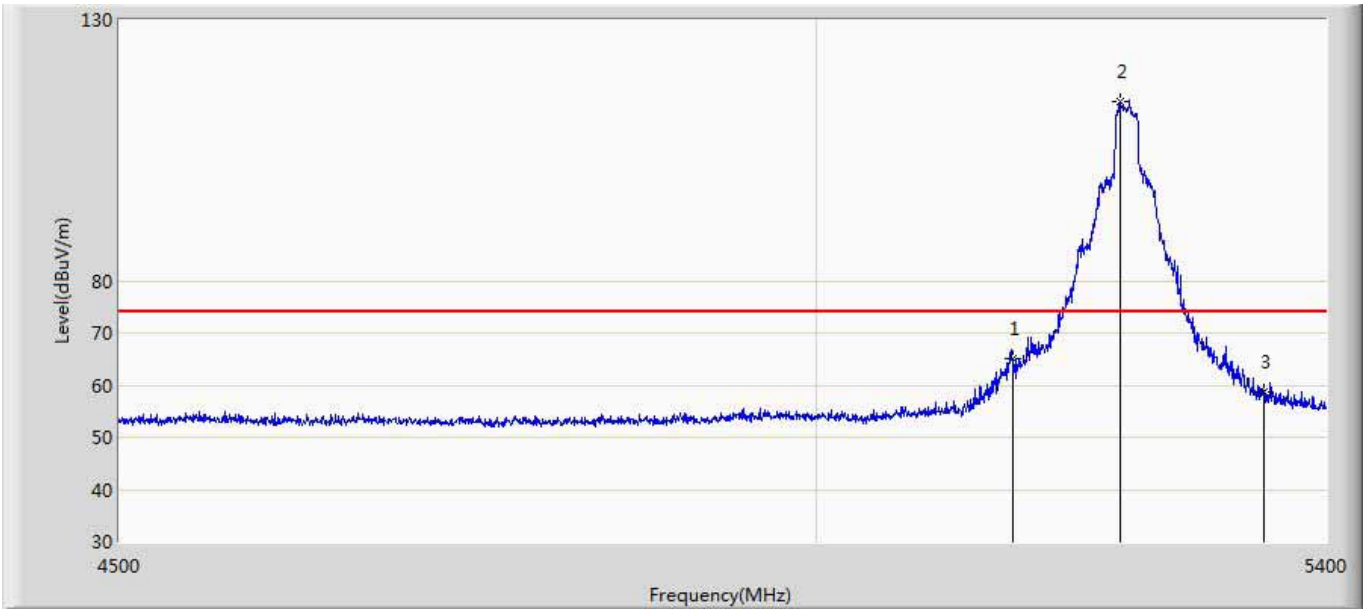
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	70.973	28.226	-3.027	74.000	42.747	PK
2	*	5235.750	121.317	78.426	N/A	N/A	42.891	PK
3		5350.000	62.765	19.572	-11.235	74.000	43.193	PK

Profile: QTK No.:1652013R	Page No.: 42
Engineer: Cloud	
Site: AC5	Time: 2016/05/30 - 15:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at CH5240 by 802.11ac(20MHz)	



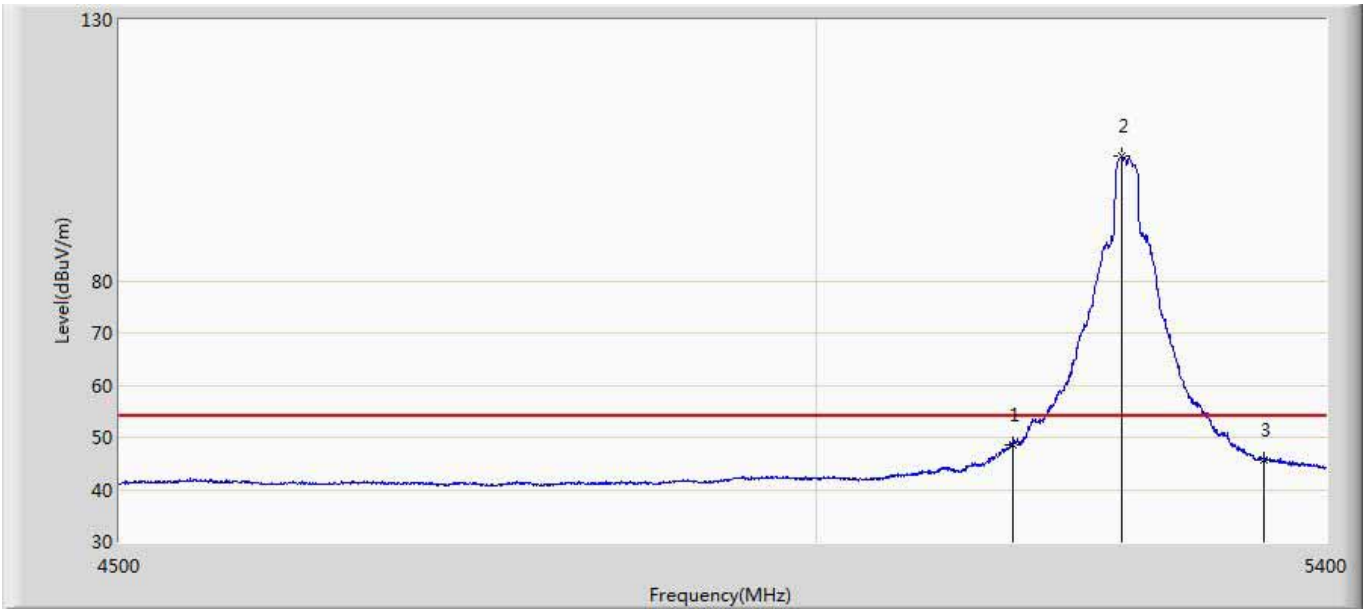
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	53.349	10.602	-0.651	54.000	42.747	AV
2	*	5235.750	110.552	67.661	N/A	N/A	42.891	AV
3		5350.000	49.060	5.867	-4.940	54.000	43.193	AV

Profile: QTK No.:1652013R	Page No.: 43
Engineer: Cloud	
Site: AC5	Time: 2016/05/30 - 15:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at CH5240 by 802.11ac(20MHz)	



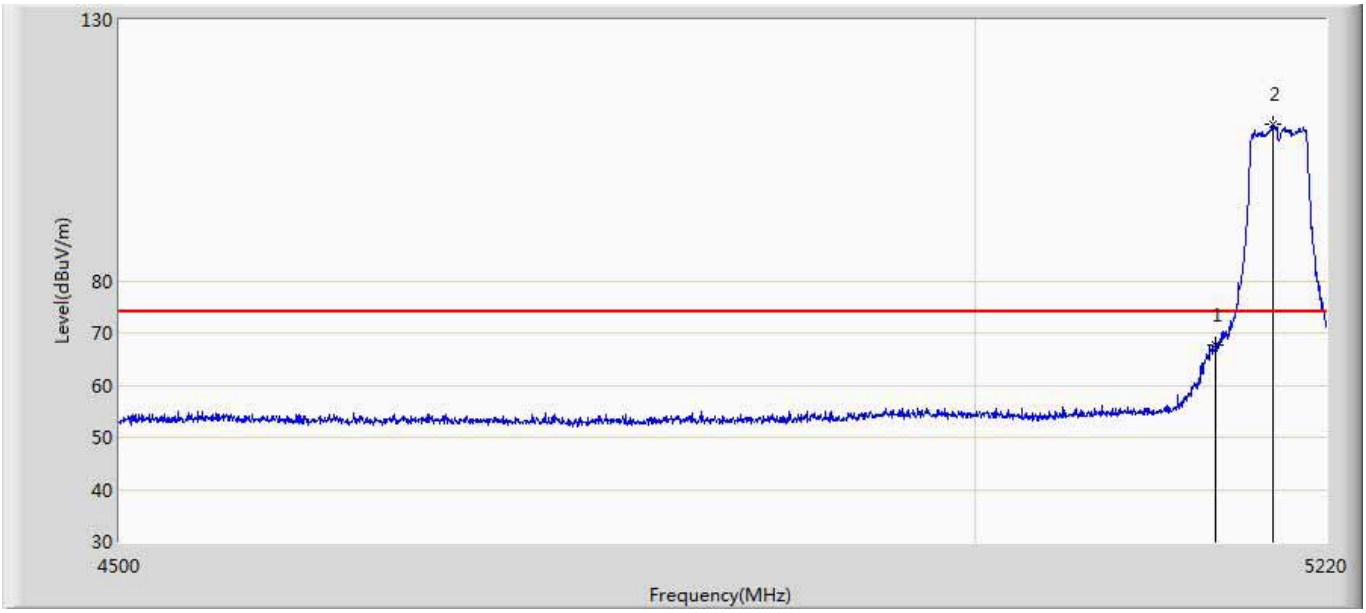
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	65.134	22.387	-8.866	74.000	42.747	PK
2	*	5234.400	114.352	71.465	N/A	N/A	42.886	PK
3		5350.000	58.695	15.502	-15.305	74.000	43.193	PK

Profile: QTK No.:1652013R	Page No.: 44
Engineer: Cloud	
Site: AC5	Time: 2016/05/30 - 15:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at CH5240 by 802.11ac(20MHz)	



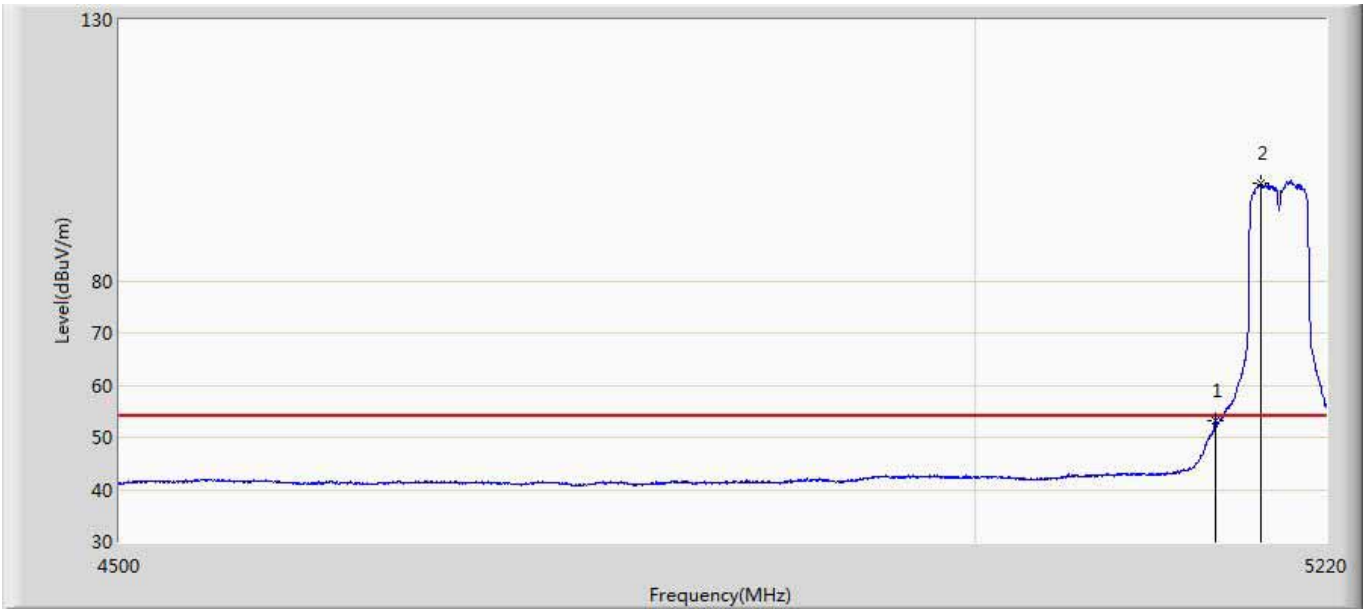
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	48.658	5.911	-5.342	54.000	42.747	AV
2	*	5235.750	103.854	60.963	N/A	N/A	42.891	AV
3		5350.000	45.768	2.575	-8.232	54.000	43.193	AV

Profile: QTK No.:1652013R	Page No.: 45
Engineer: Cloud	
Site: AC5	Time: 2016/05/30 - 15:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 5:Transmit at CH5190 by 802.11ac(40MHz)	



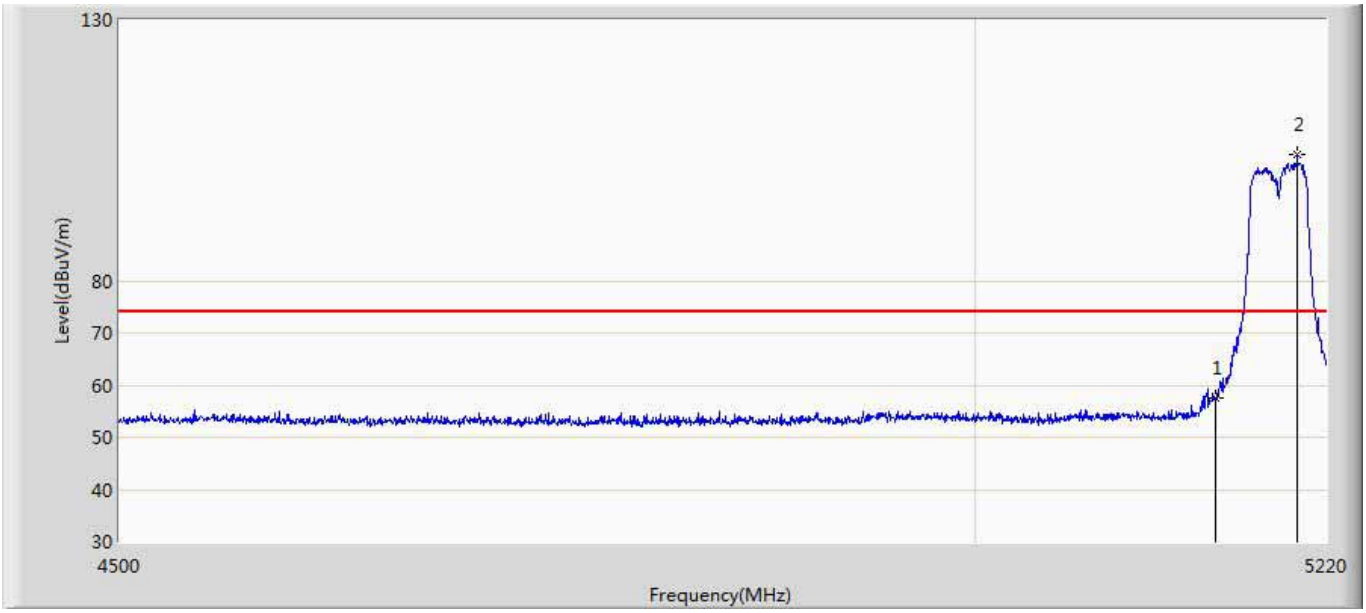
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	67.769	25.022	-6.231	74.000	42.747	PK
2	*	5186.160	109.860	66.964	N/A	N/A	42.896	PK

Profile: QTK No.:1652013R	Page No.: 46
Engineer: Cloud	
Site: AC5	Time: 2016/05/30 - 15:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 5:Transmit at CH5190 by 802.11ac(40MHz)	



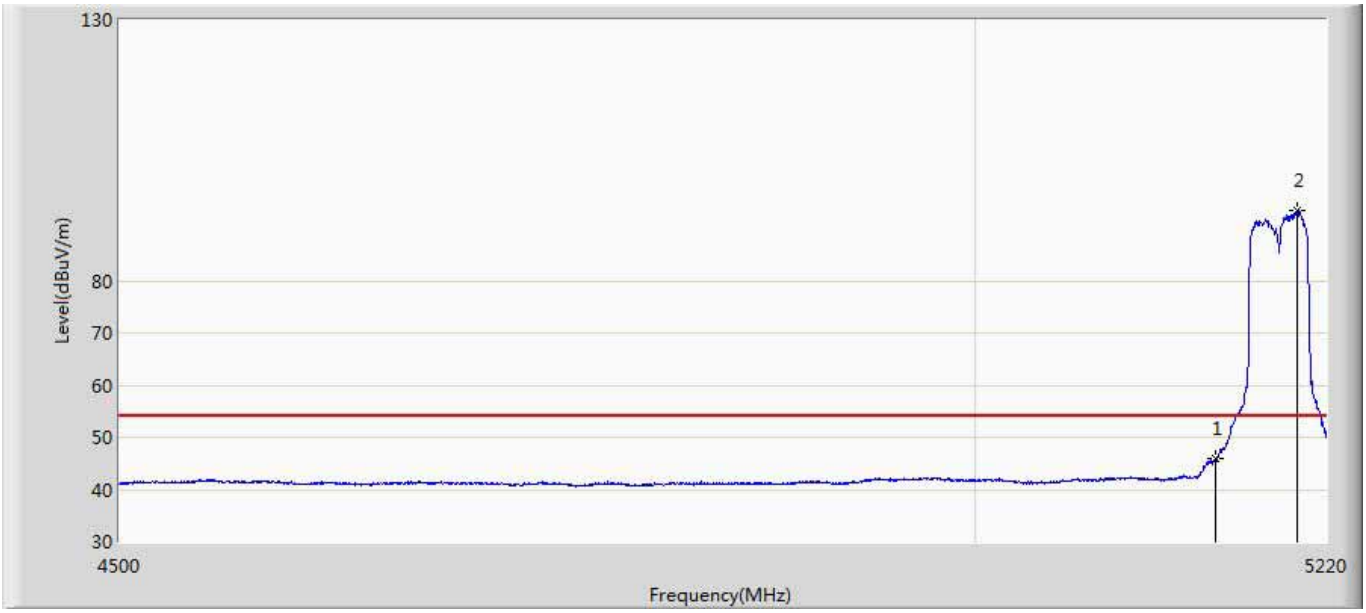
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	53.074	10.327	-0.926	54.000	42.747	AV
2	*	5178.600	98.795	55.916	N/A	N/A	42.879	AV

Profile: QTK No.:1652013R	Page No.: 47
Engineer: Cloud	
Site: AC5	Time: 2016/05/30 - 15:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 5:Transmit at CH5190 by 802.11ac(40MHz)	



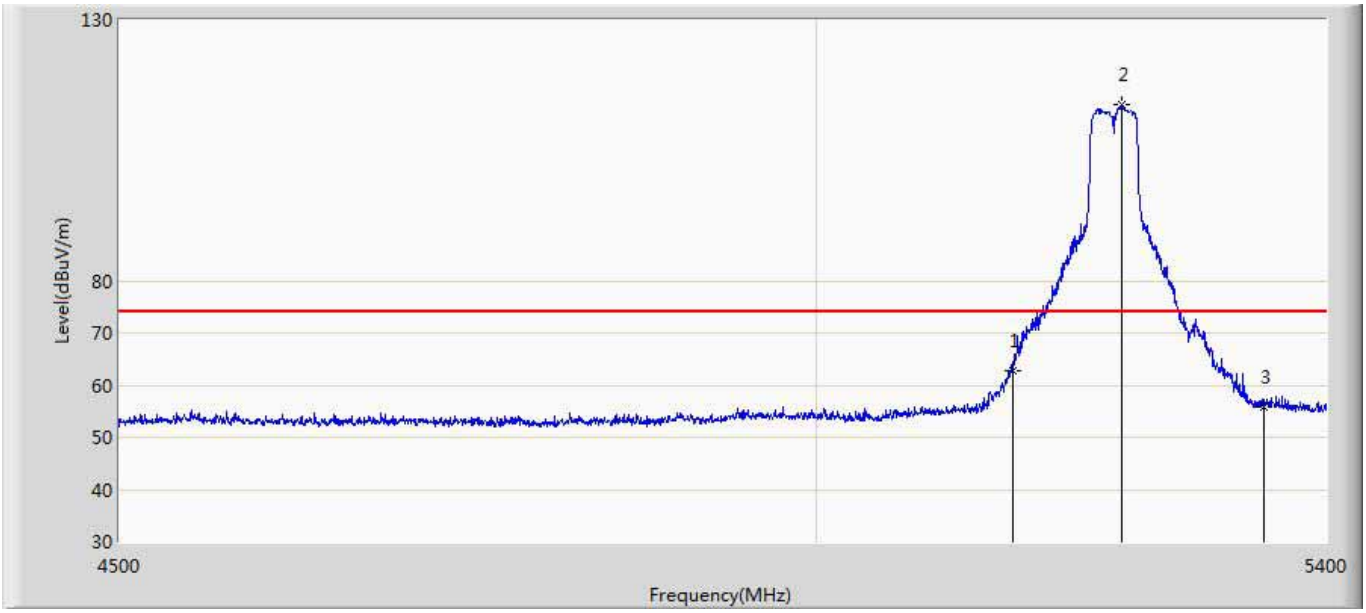
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	57.599	14.852	-16.401	74.000	42.747	PK
2	*	5201.640	104.073	61.214	N/A	N/A	42.859	PK

Profile: QTK No.:1652013R	Page No.: 48
Engineer: Cloud	
Site: AC5	Time: 2016/05/30 - 15:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 5:Transmit at CH5190 by 802.11ac(40MHz)	



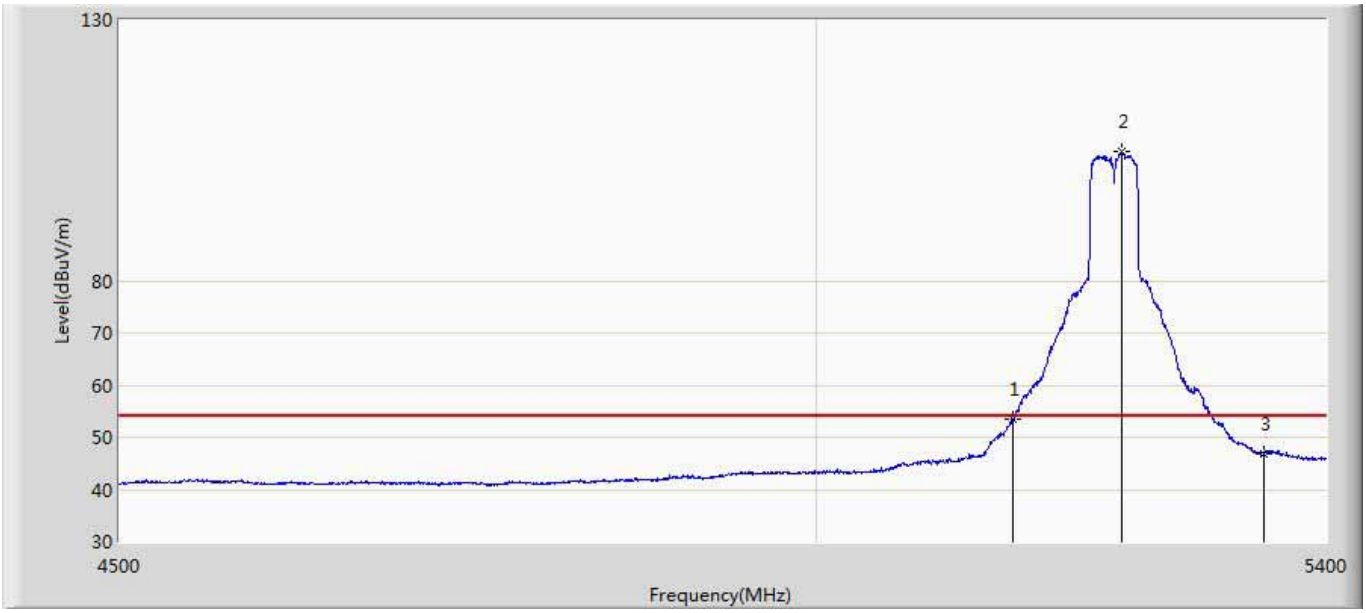
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	45.842	3.095	-8.158	54.000	42.747	AV
2	*	5202.000	93.613	50.756	N/A	N/A	42.857	AV

Profile: QTK No.:1652013R	Page No.: 49
Engineer: Cloud	
Site: AC5	Time: 2016/05/30 - 15:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 5:Transmit at CH5230 by 802.11ac(40MHz)	



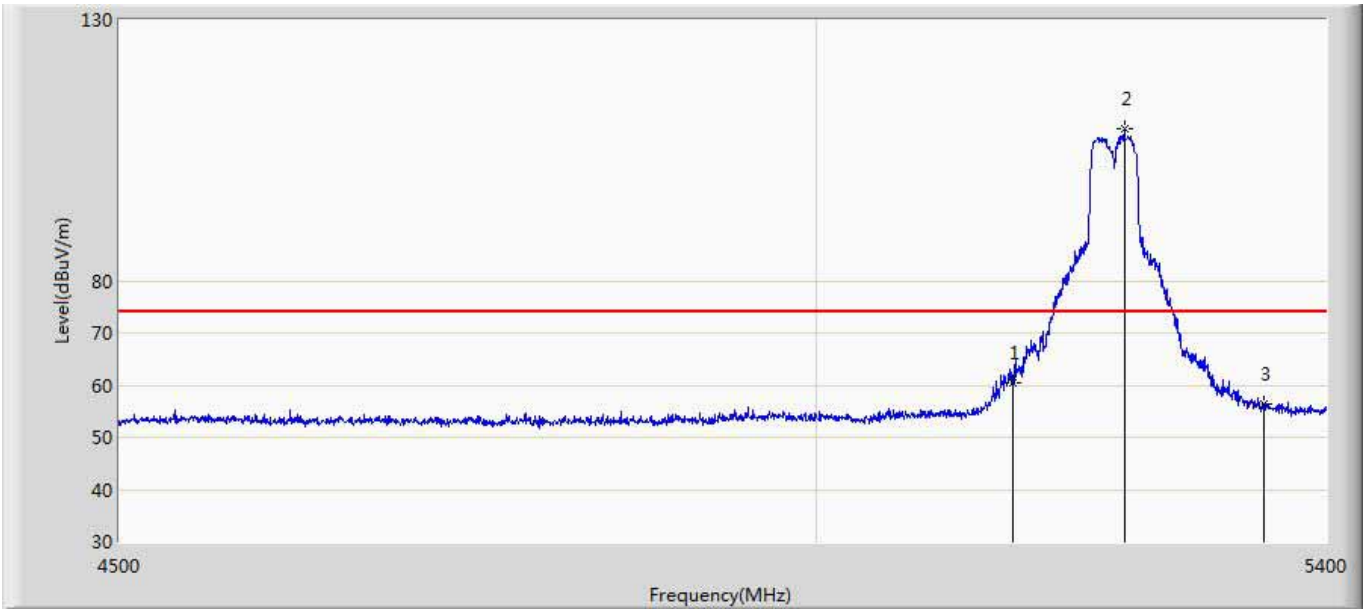
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	62.770	20.023	-11.230	74.000	42.747	PK
2	*	5235.750	113.879	70.988	N/A	N/A	42.891	PK
3		5350.000	55.853	12.660	-18.147	74.000	43.193	PK

Profile: QTK No.:1652013R	Page No.: 50
Engineer: Cloud	
Site: AC5	Time: 2016/05/30 - 15:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 5:Transmit at CH5230 by 802.11ac(40MHz)	



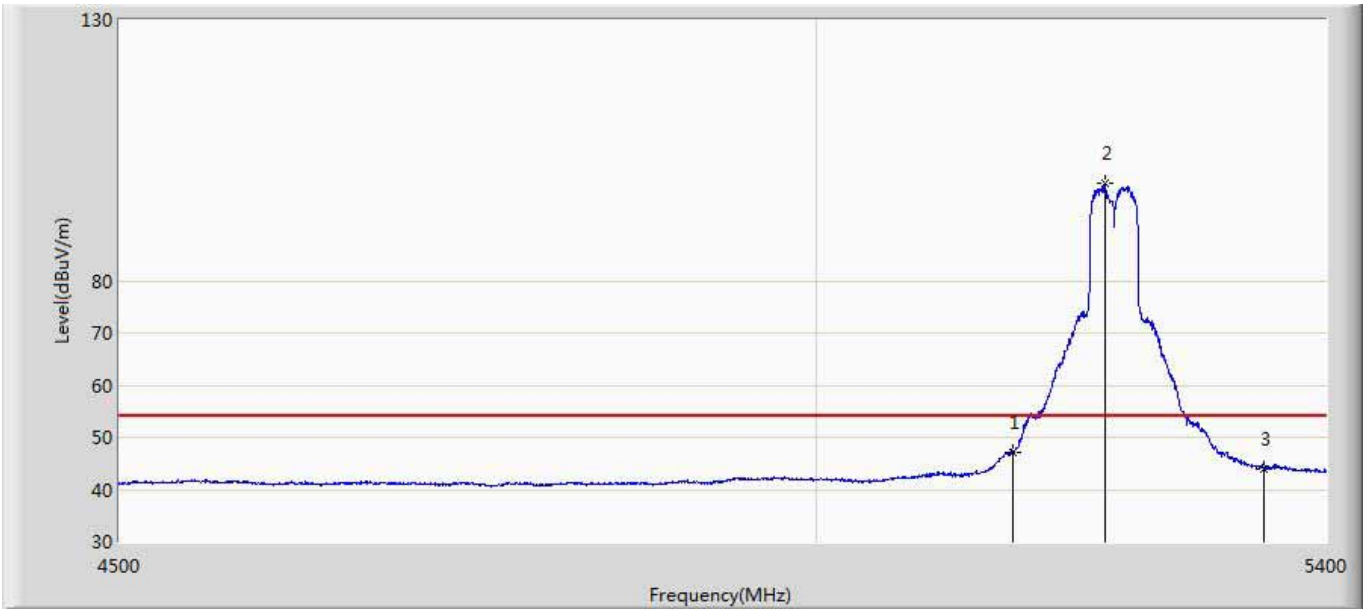
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	53.450	10.703	-0.550	54.000	42.747	AV
2	*	5235.750	104.760	61.869	N/A	N/A	42.891	AV
3		5350.000	46.945	3.752	-7.055	54.000	43.193	AV

Profile: QTK No.:1652013R	Page No.: 51
Engineer: Cloud	
Site: AC5	Time: 2016/05/30 - 16:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 5:Transmit at CH5230 by 802.11ac(40MHz)	



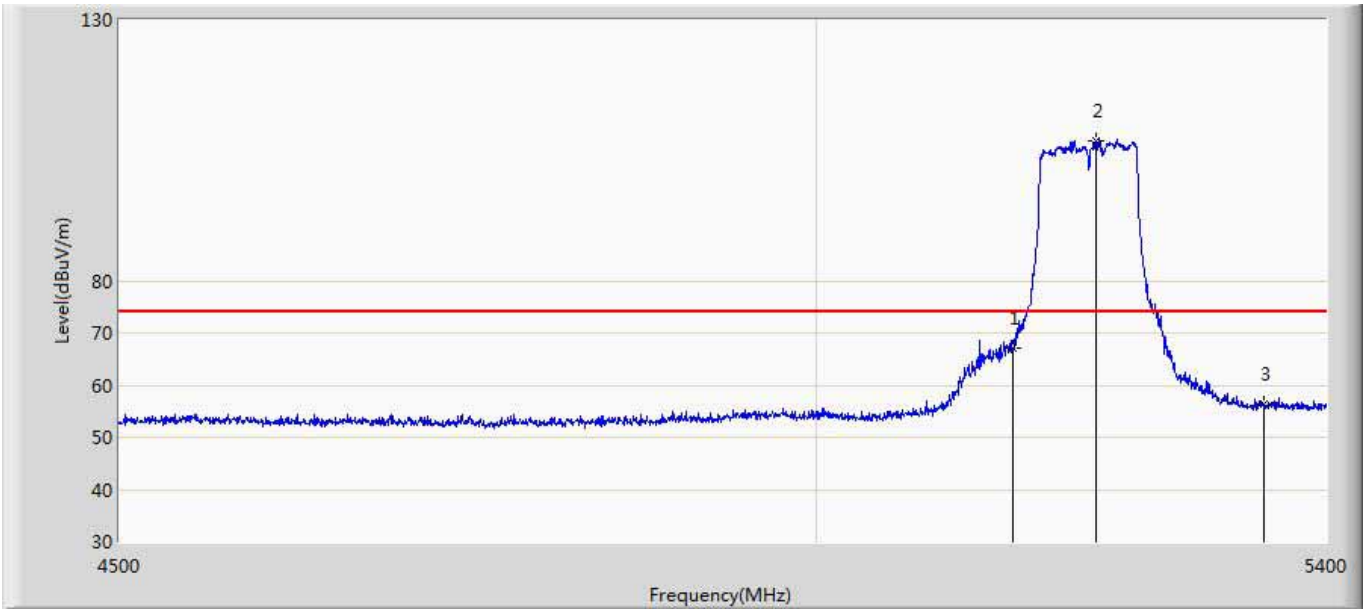
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	60.531	17.784	-13.469	74.000	42.747	PK
2	*	5238.000	109.026	66.127	N/A	N/A	42.899	PK
3		5350.000	56.461	13.268	-17.539	74.000	43.193	PK

Profile: QTK No.:1652013R	Page No.: 52
Engineer: Cloud	
Site: AC5	Time: 2016/05/30 - 16:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 5:Transmit at CH5230 by 802.11ac(40MHz)	



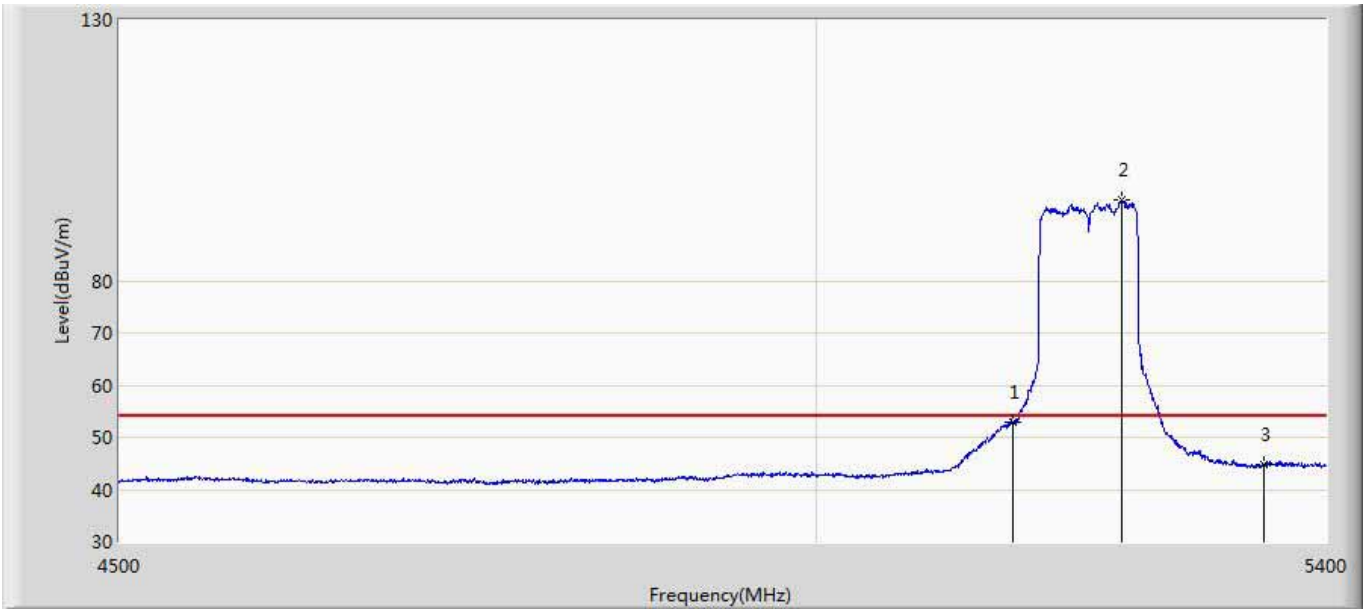
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	47.088	4.341	-6.912	54.000	42.747	AV
2	*	5222.250	98.577	55.759	N/A	N/A	42.818	AV
3		5350.000	44.047	0.854	-9.953	54.000	43.193	AV

Profile: QTK No.:1652013R	Page No.: 53
Engineer: Cloud	
Site: AC5	Time: 2016/05/31 - 16:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 6:Transmit at CH5210 by 802.11ac(80MHz)	



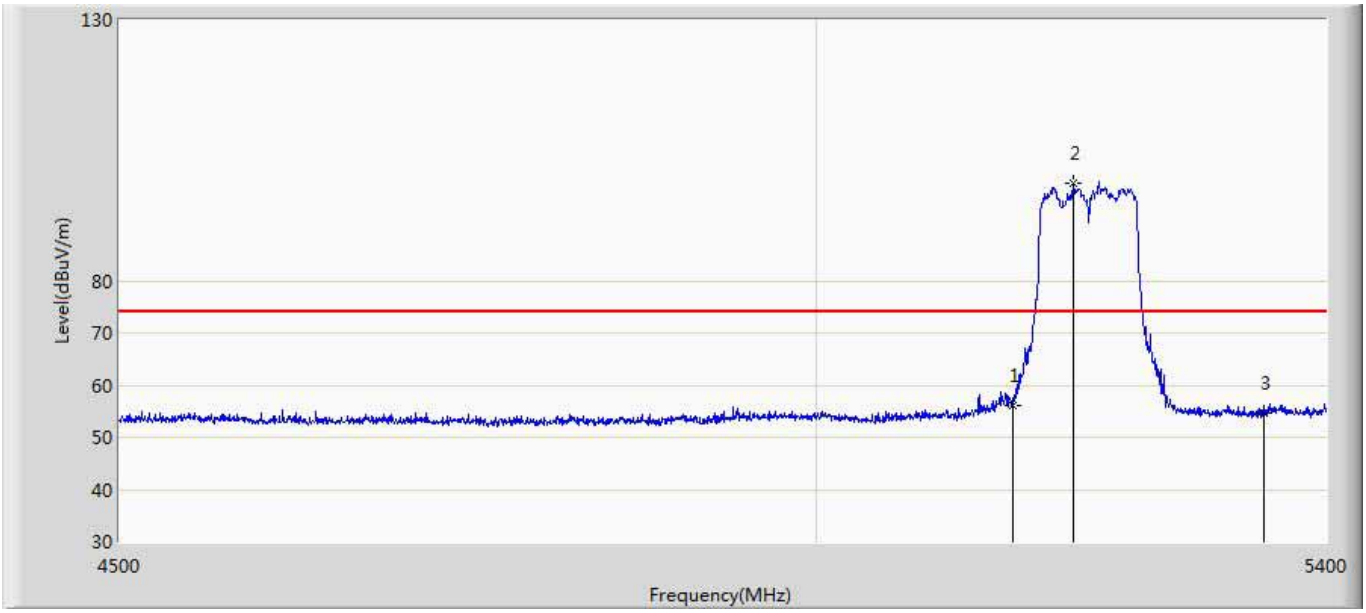
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	67.152	24.405	-6.848	74.000	42.747	PK
2	*	5215.500	106.875	64.091	N/A	N/A	42.783	PK
3		5350.000	56.303	13.110	-17.697	74.000	43.193	PK

Profile: QTK No.:1652013R	Page No.: 54
Engineer: Cloud	
Site: AC5	Time: 2016/05/31 - 17:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 6:Transmit at CH5210 by 802.11ac(80MHz)	



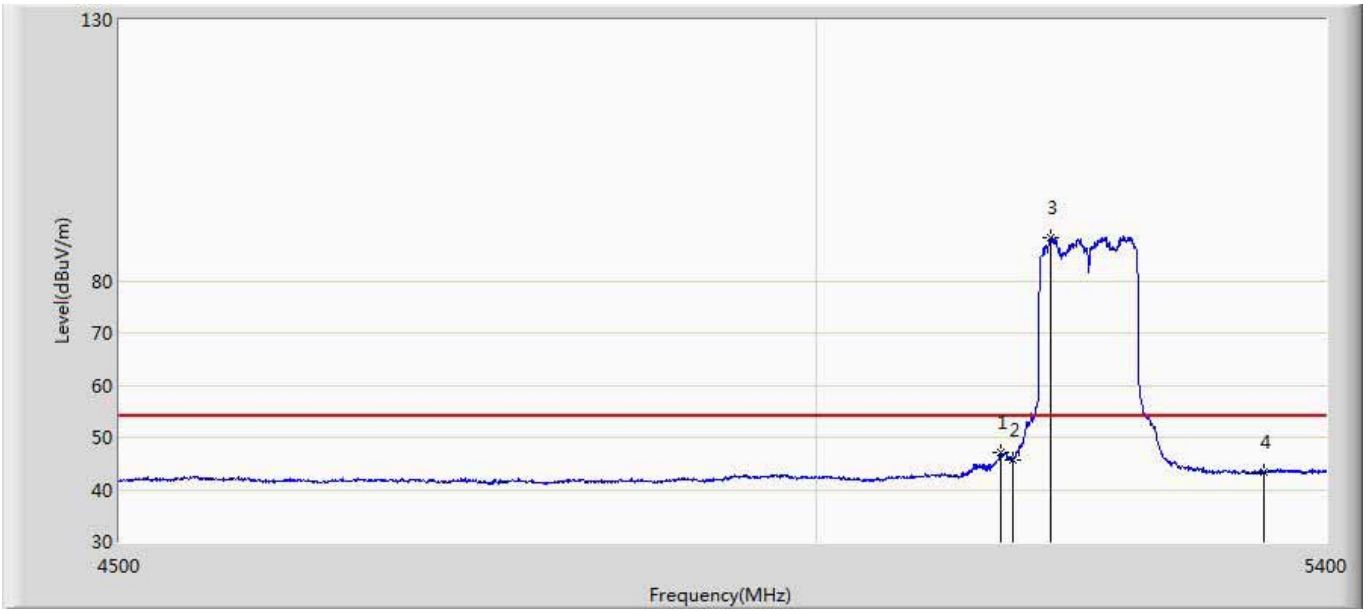
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	53.009	10.262	-0.991	54.000	42.747	AV
2	*	5235.750	95.378	52.487	N/A	N/A	42.891	AV
3		5350.000	44.846	1.653	-9.154	54.000	43.193	AV

Profile: QTK No.:1652013R	Page No.: 55
Engineer: Cloud	
Site: AC5	Time: 2016/05/31 - 17:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 6:Transmit at CH5210 by 802.11ac(80MHz)	



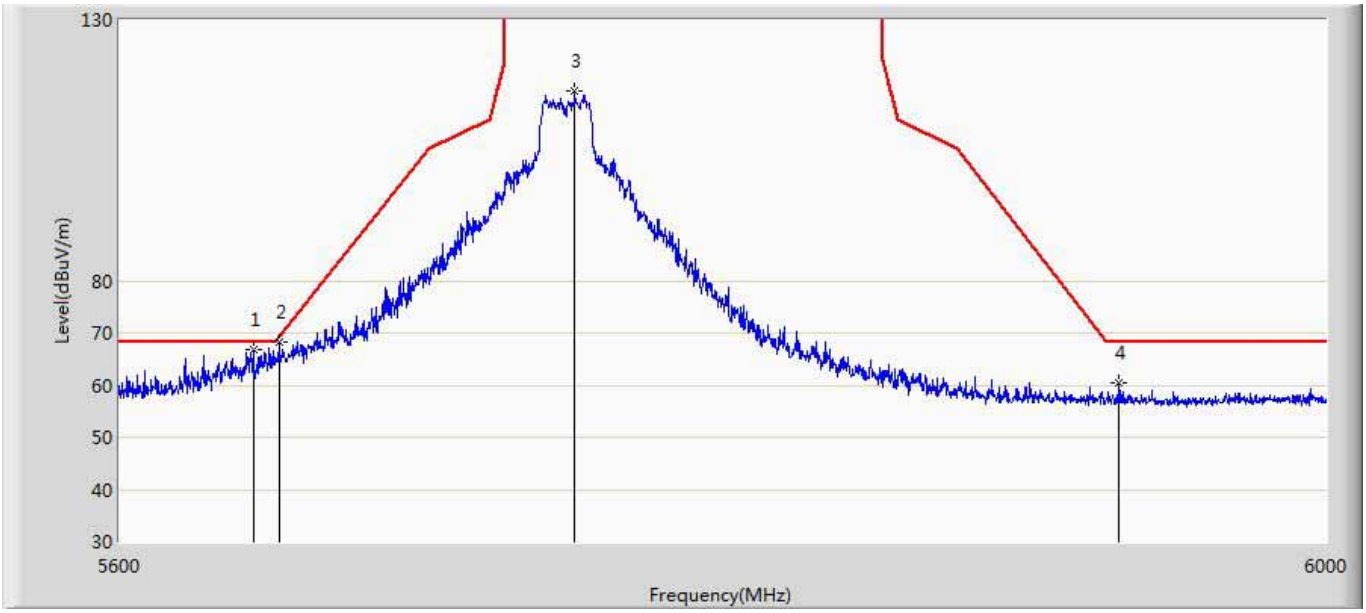
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	56.137	13.390	-17.863	74.000	42.747	PK
2	*	5198.400	98.810	55.936	N/A	N/A	42.874	PK
3		5350.000	54.698	11.505	-19.302	74.000	43.193	PK

Profile: QTK No.:1652013R	Page No.: 56
Engineer: Cloud	
Site: AC5	Time: 2016/05/31 - 17:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 6:Transmit at CH5210 by 802.11ac(80MHz)	



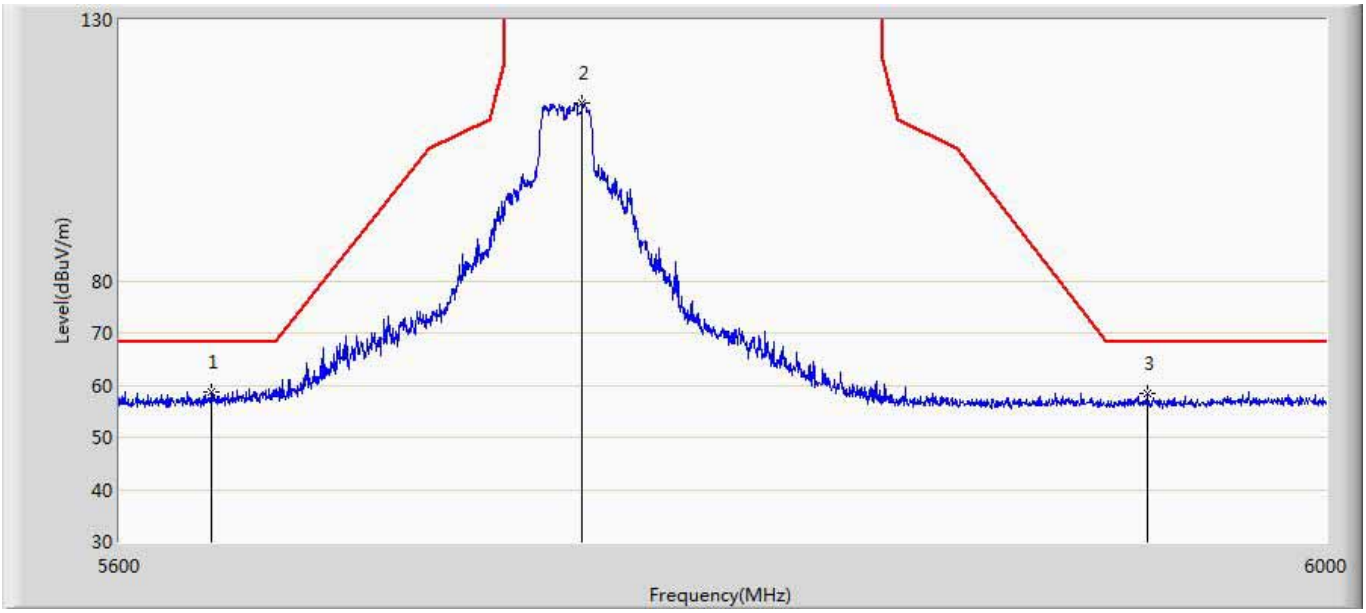
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5141.700	47.013	4.227	-6.987	54.000	42.786	AV
2		5150.000	45.591	2.844	-8.409	54.000	42.747	AV
3	*	5180.400	88.389	45.497	N/A	N/A	42.892	AV
4		5350.000	43.268	0.075	-10.732	54.000	43.193	AV

Profile: QTK No.:1652013R	Page No.: 57
Engineer: Cloud	
Site: AC5	Time: 2016/05/31 - 17:15
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 1:Transmit at CH5745 by 802.11a	



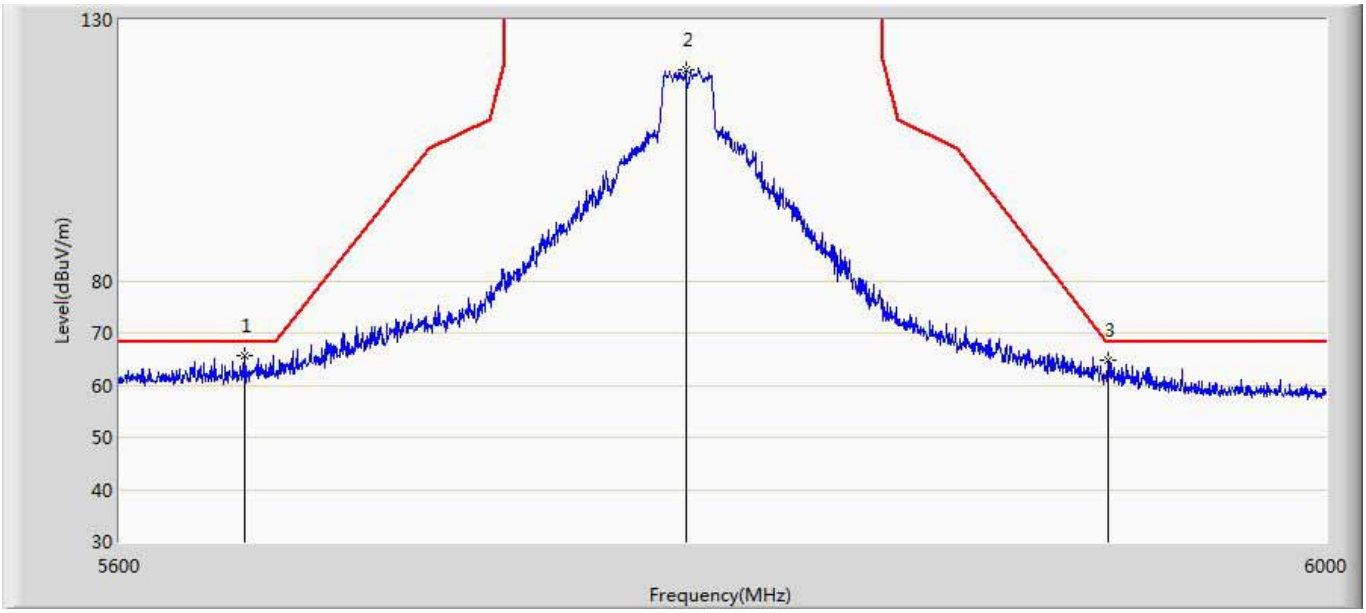
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5643.200	66.918	23.098	-1.382	68.300	43.820	PK
2	*	5651.400	68.424	24.564	-0.916	69.340	43.860	PK
3		5747.600	116.422	72.267	-183.578	300.000	44.155	PK
4		5929.600	60.322	15.982	-7.978	68.300	44.339	PK

Profile: QTK No.:1652013R	Page No.: 58
Engineer: Cloud	
Site: AC5	Time: 2016/05/31 - 17:19
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 1:Transmit at CH5745 by 802.11a	



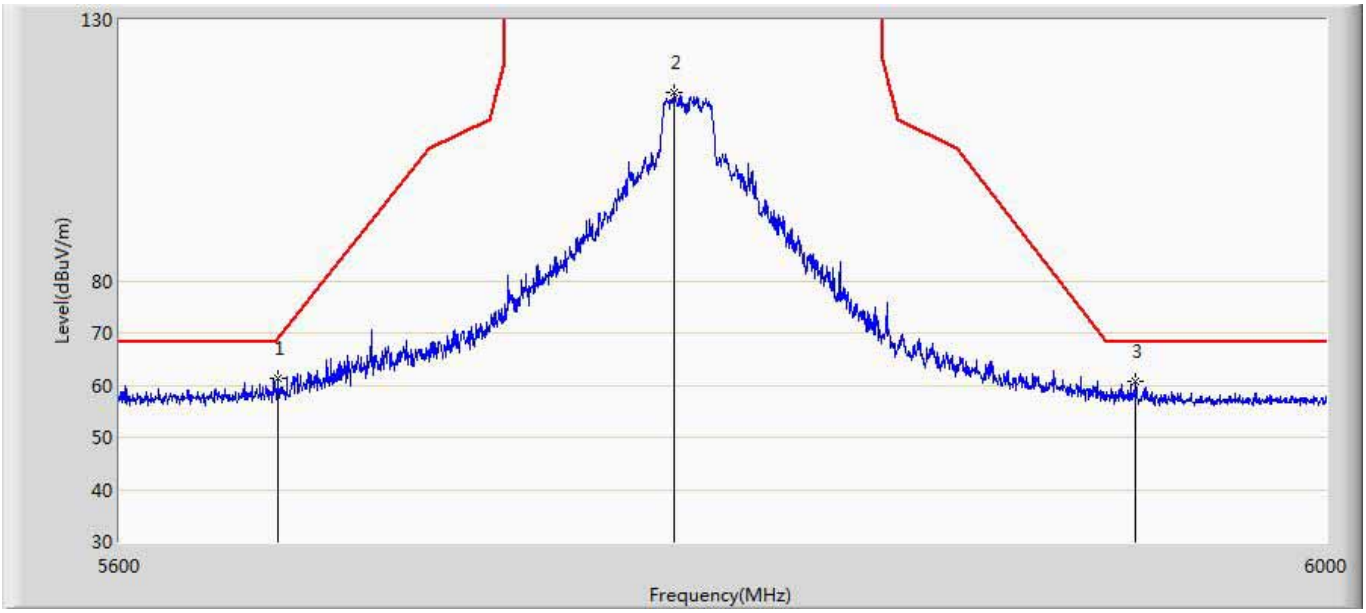
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5629.400	58.840	15.160	-9.460	68.300	43.679	PK
2		5750.200	114.092	69.971	-185.908	300.000	44.121	PK
3		5939.000	58.387	14.075	-9.913	68.300	44.312	PK

Profile: QTK No.:1652013R	Page No.: 59
Engineer: Cloud	
Site: AC5	Time: 2016/05/31 - 17:29
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 1:Transmit at CH5785 by 802.11a	



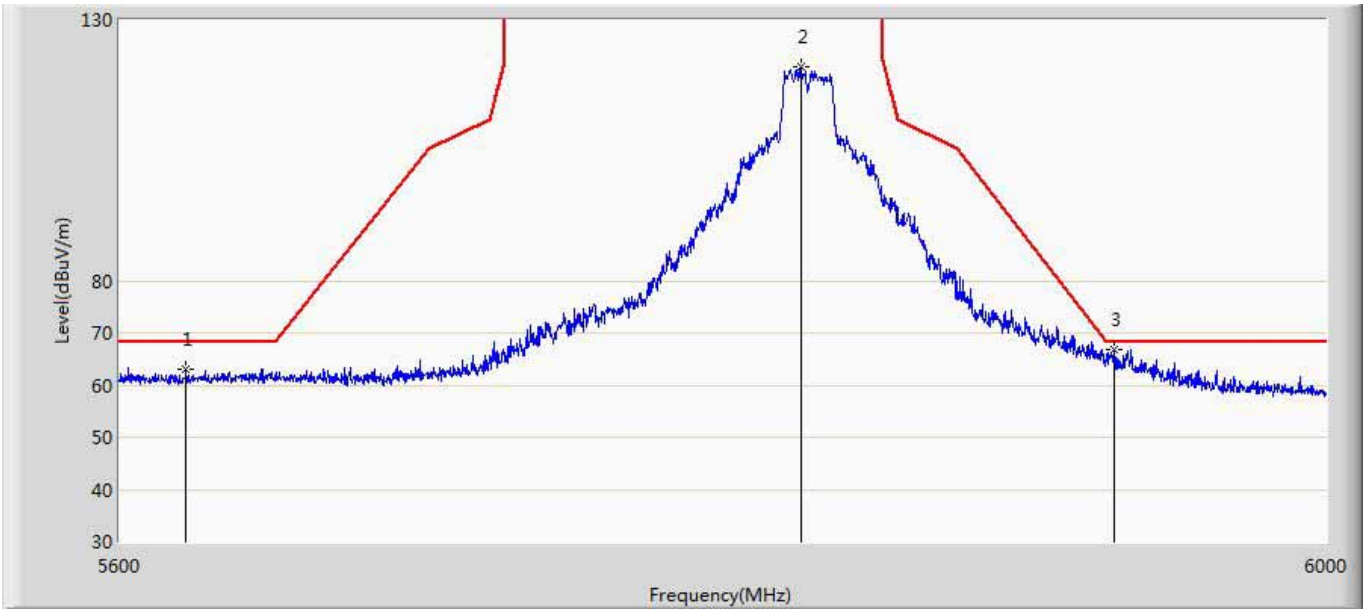
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5640.200	65.643	21.843	-2.657	68.300	43.800	PK
2		5784.400	120.555	76.525	-179.445	300.000	44.030	PK
3		5926.000	64.687	20.309	-3.613	68.300	44.378	PK

Profile: QTK No.:1652013R	Page No.: 60
Engineer: Cloud	
Site: AC5	Time: 2016/05/31 - 17:31
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 1:Transmit at CH5785 by 802.11a	



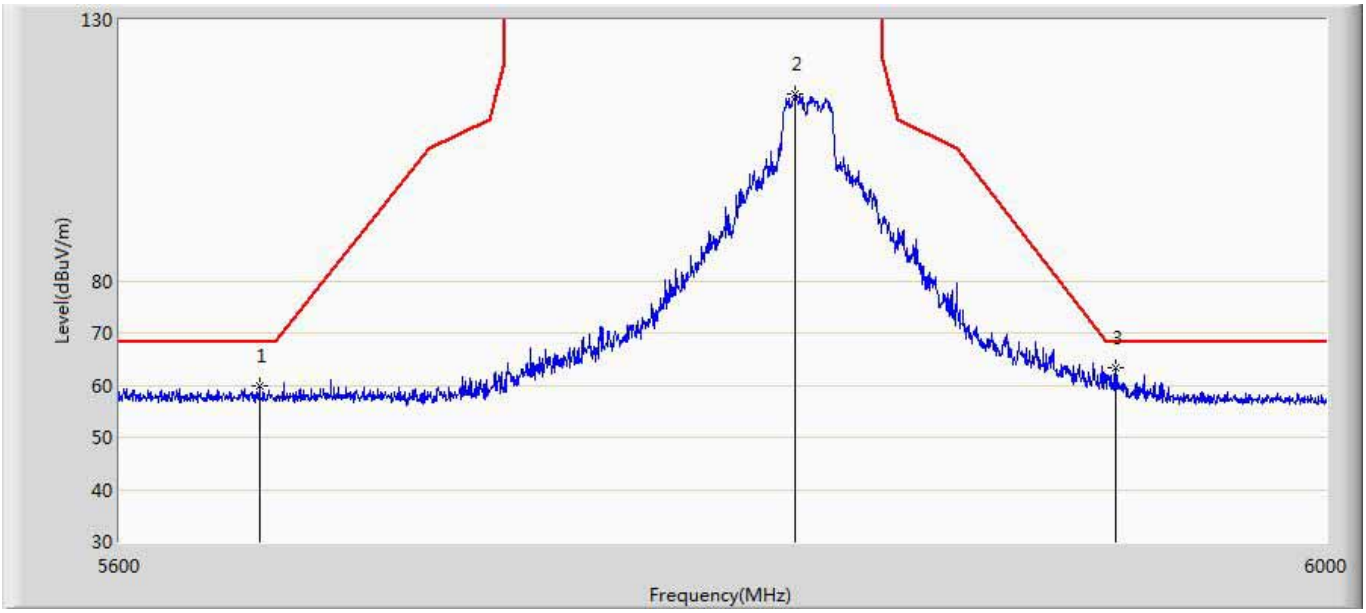
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5651.200	61.391	17.532	-7.801	69.192	43.858	PK
2		5780.600	115.966	71.942	-184.034	300.000	44.024	PK
3	*	5935.200	60.594	16.272	-7.706	68.300	44.322	PK

Profile: QTK No.:1652013R	Page No.: 61
Engineer: Cloud	
Site: AC5	Time: 2016/05/31 - 17:34
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 1:Transmit at CH5825 by 802.11a	



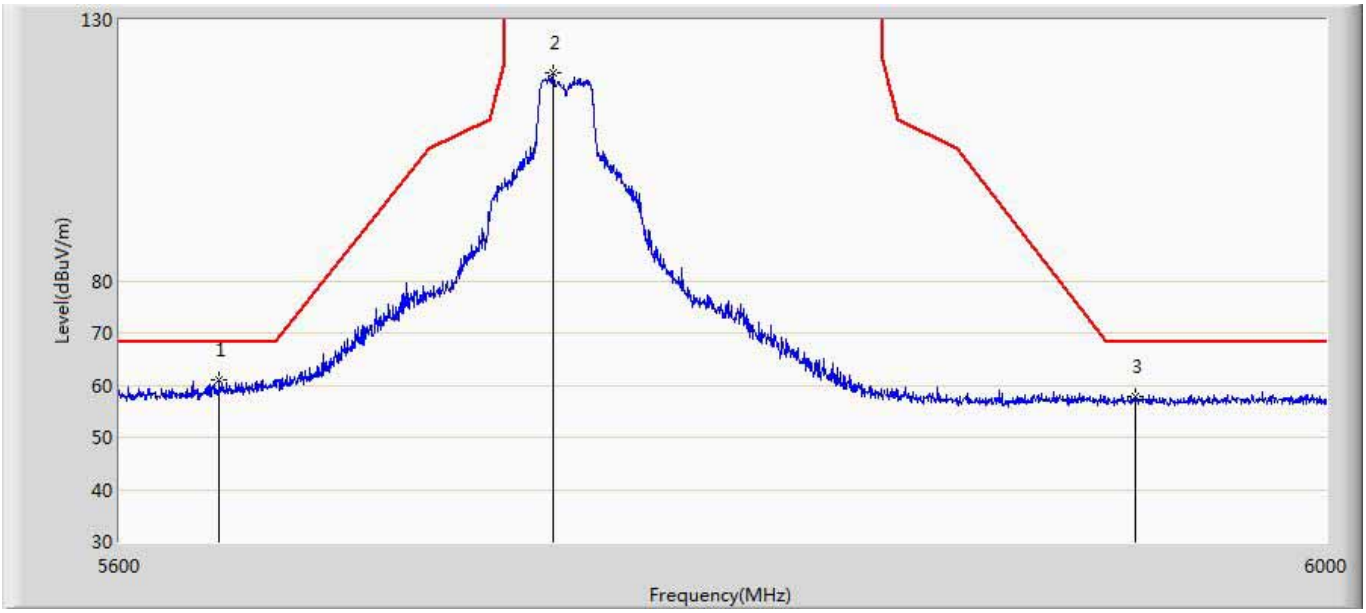
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5621.400	63.114	19.502	-5.186	68.300	43.612	PK
2		5822.600	120.978	76.763	-179.022	300.000	44.215	PK
3	*	5928.000	66.729	22.372	-1.571	68.300	44.357	PK

Profile: QTK No.:1652013R	Page No.: 62
Engineer: Cloud	
Site: AC5	Time: 2016/05/31 - 17:43
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 1:Transmit at CH5825 by 802.11a	



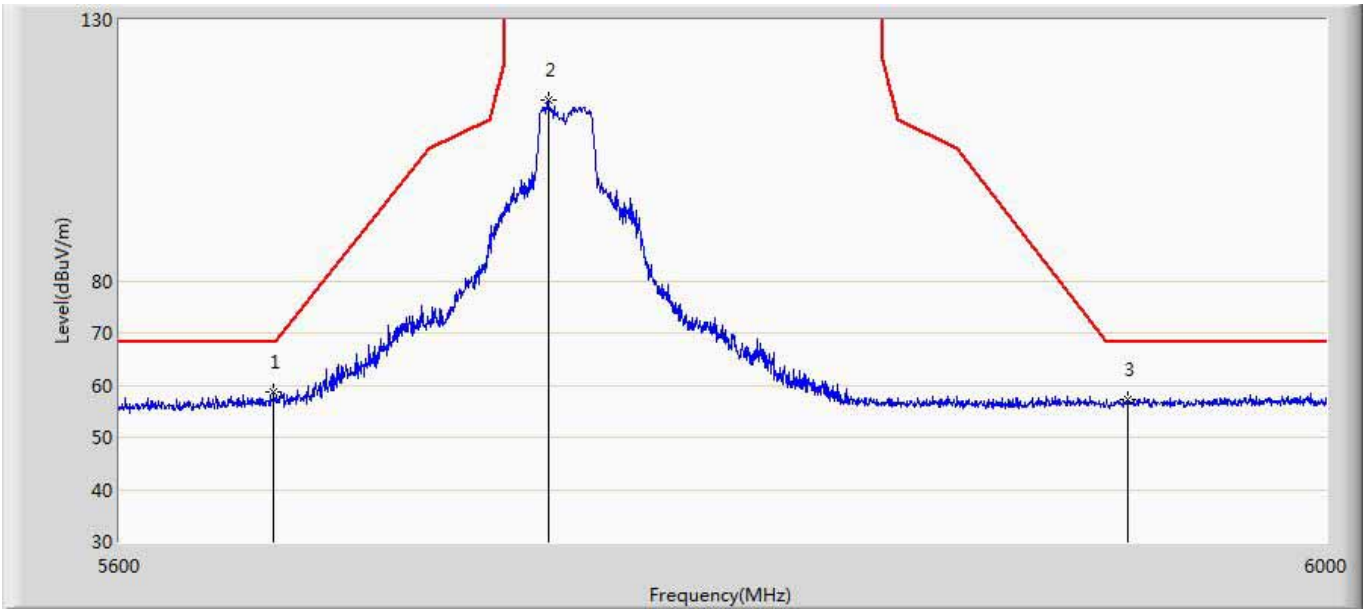
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5645.000	59.739	15.911	-8.561	68.300	43.829	PK
2		5820.800	115.722	71.526	-184.278	300.000	44.196	PK
3	*	5928.200	63.438	19.083	-4.862	68.300	44.354	PK

Profile: QTK No.:1652013R	Page No.: 63
Engineer: Cloud	
Site: AC5	Time: 2016/05/31 - 17:46
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at CH5745 by 802.11n(20MHz)	



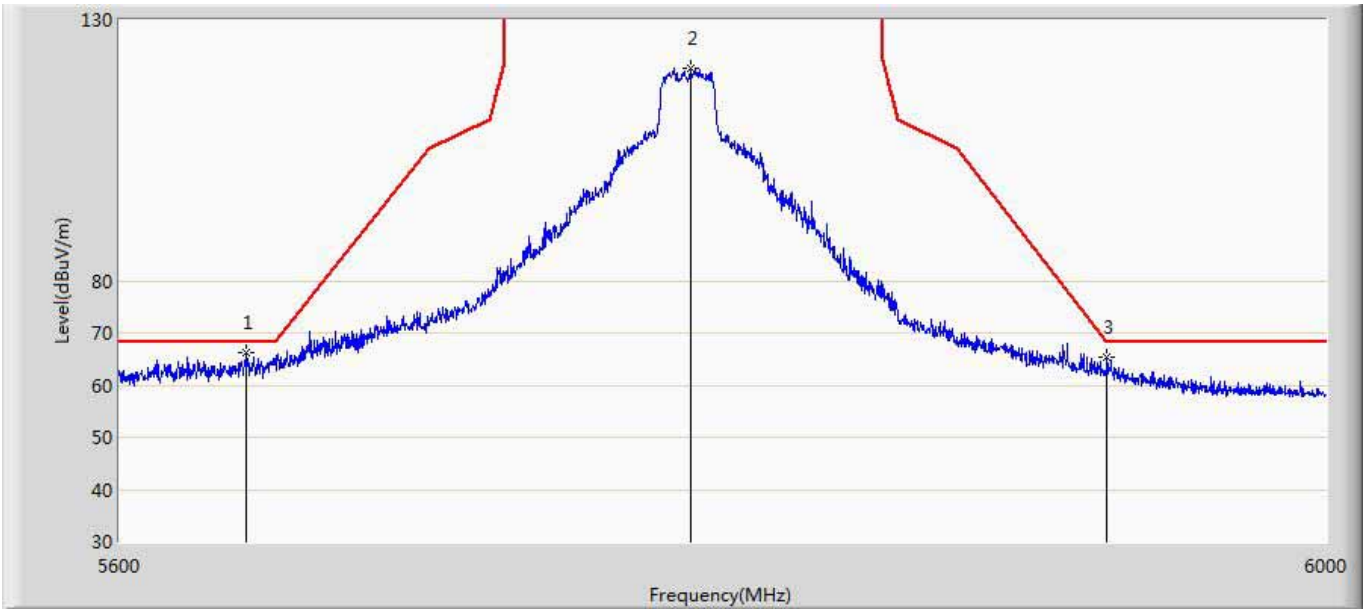
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5632.200	61.033	17.322	-7.267	68.300	43.711	PK
2		5740.800	119.923	75.725	-180.077	300.000	44.198	PK
3		5935.000	57.846	13.524	-10.454	68.300	44.322	PK

Profile: QTK No.:1652013R	Page No.: 64
Engineer: Cloud	
Site: AC5	Time: 2016/05/31 - 17:55
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at CH5745 by 802.11n(20MHz)	



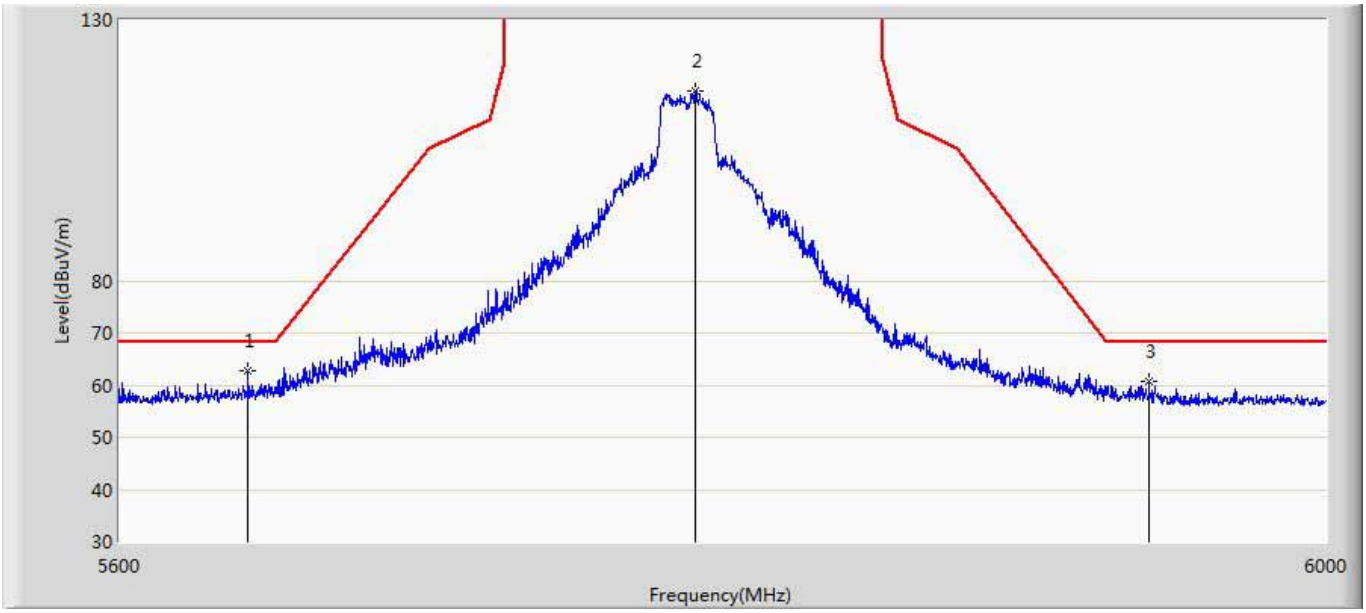
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5649.800	58.814	14.962	-9.486	68.300	43.851	PK
2		5739.200	114.689	70.504	-185.311	300.000	44.185	PK
3		5932.200	57.248	12.918	-11.052	68.300	44.330	PK

Profile: QTK No.:1652013R	Page No.: 65
Engineer: Cloud	
Site: AC5	Time: 2016/05/31 - 17:57
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at CH5785 by 802.11n(20MHz)	



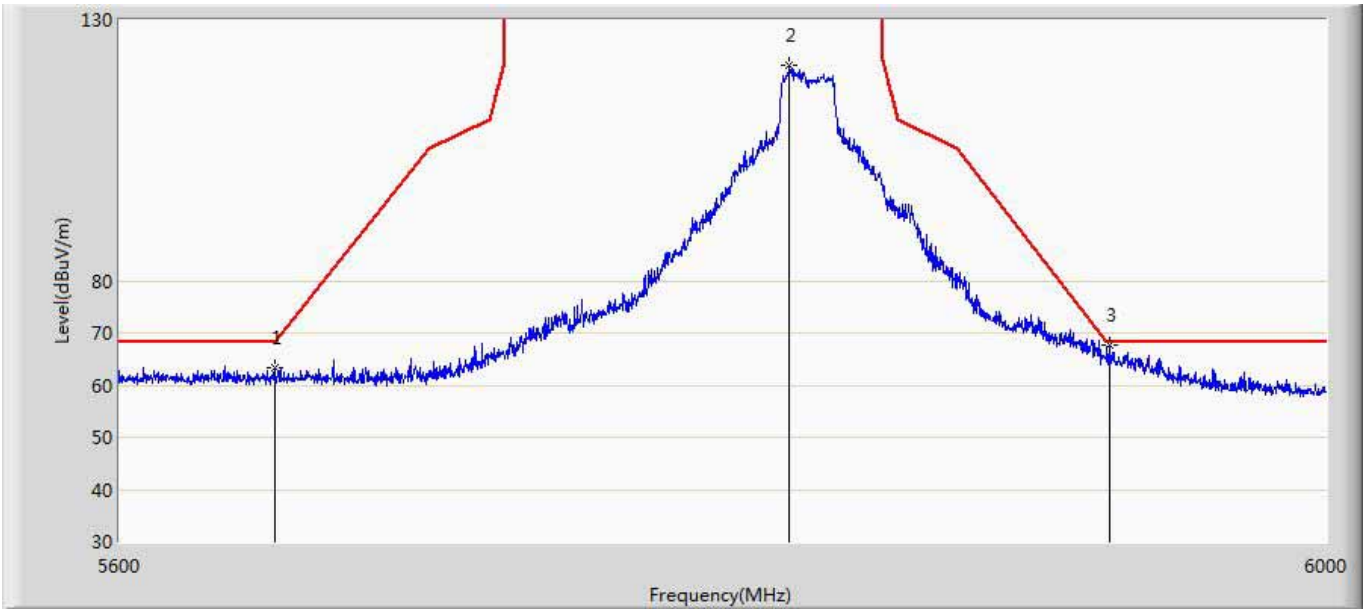
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5640.600	66.302	22.498	-1.998	68.300	43.804	PK
2		5785.800	120.838	76.805	-179.162	300.000	44.032	PK
3		5925.400	65.324	20.940	-2.976	68.300	44.385	PK

Profile: QTK No.:1652013R	Page No.: 66
Engineer: Cloud	
Site: AC5	Time: 2016/05/31 - 18:00
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at CH5785 by 802.11n(20MHz)	



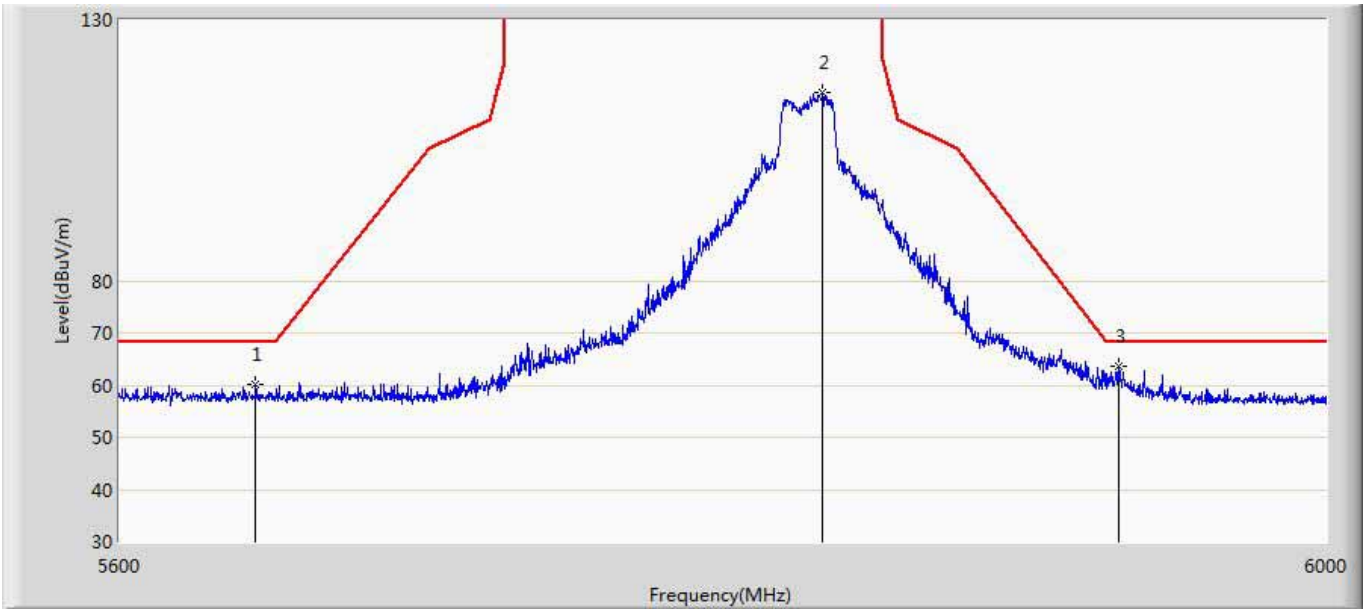
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5641.400	62.796	18.985	-5.504	68.300	43.811	PK
2		5787.400	116.511	72.476	-183.489	300.000	44.035	PK
3		5939.600	60.711	16.401	-7.589	68.300	44.311	PK

Profile: QTK No.:1652013R	Page No.: 67
Engineer: Cloud	
Site: AC5	Time: 2016/05/31 - 18:01
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at CH5825 by 802.11n(20MHz)	



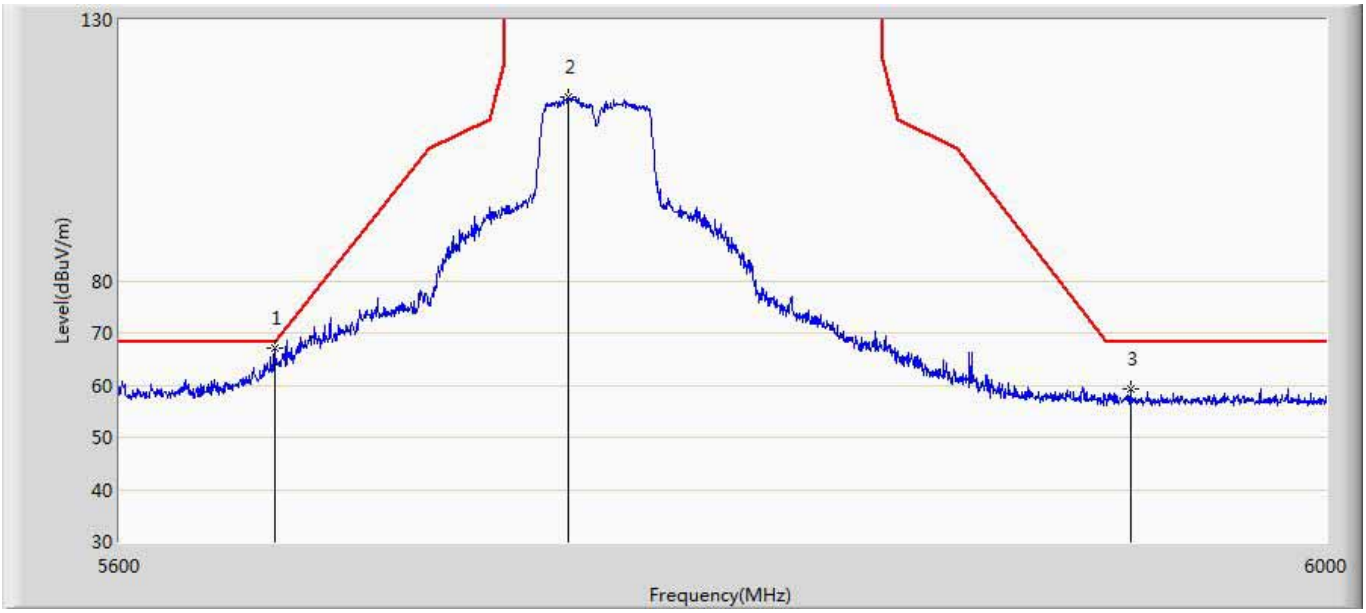
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5650.000	63.474	19.621	-4.826	68.300	43.853	PK
2		5818.600	121.278	77.105	-178.722	300.000	44.173	PK
3	*	5926.400	67.648	23.274	-0.652	68.300	44.374	PK

Profile: QTK No.:1652013R	Page No.: 68
Engineer: Cloud	
Site: AC5	Time: 2016/05/31 - 18:04
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at CH5825 by 802.11n(20MHz)	



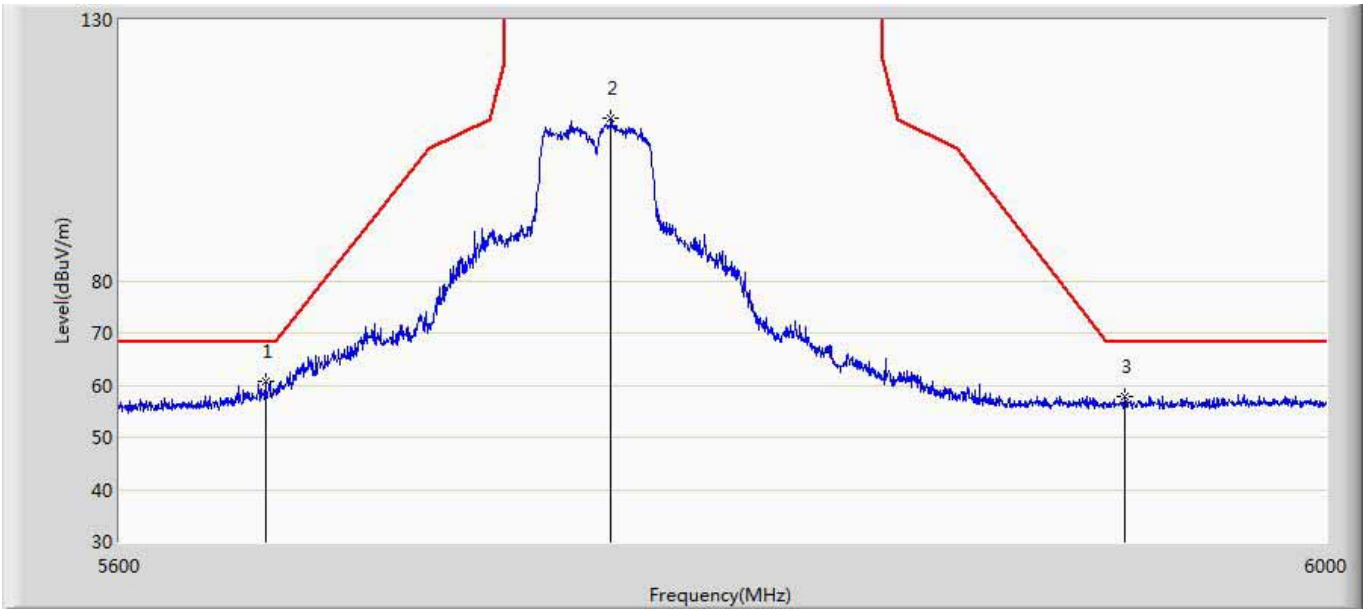
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5643.800	60.022	16.199	-8.278	68.300	43.823	PK
2		5829.800	116.016	71.751	-183.984	300.000	44.266	PK
3	*	5929.200	63.585	19.241	-4.715	68.300	44.344	PK

Profile: QTK No.:1652013R	Page No.: 69
Engineer: Cloud	
Site: AC5	Time: 2016/05/31 - 18:07
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 3:Transmit at CH5755 by 802.11n(40MHz)	



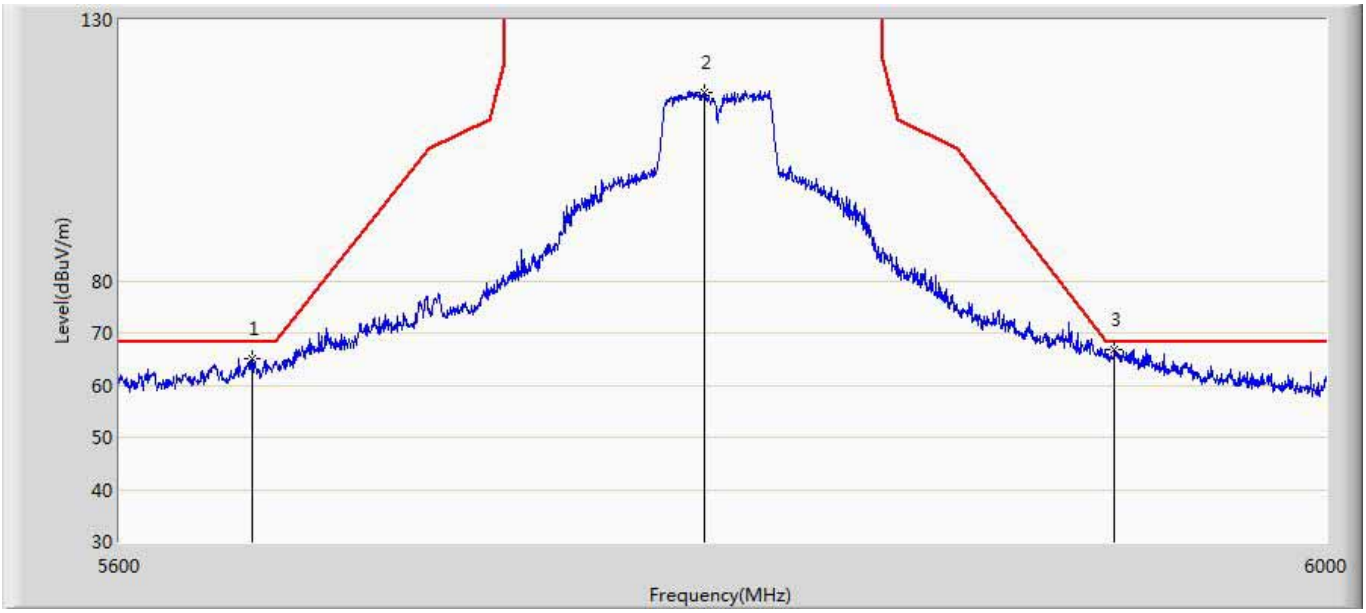
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5650.000	67.143	23.290	-1.157	68.300	43.853	PK
2		5745.600	115.357	71.176	-184.643	300.000	44.182	PK
3		5933.200	59.196	14.869	-9.104	68.300	44.328	PK

Profile: QTK No.:1652013R	Page No.: 70
Engineer: Cloud	
Site: AC5	Time: 2016/05/31 - 18:12
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 3:Transmit at CH5755 by 802.11n(40MHz)	



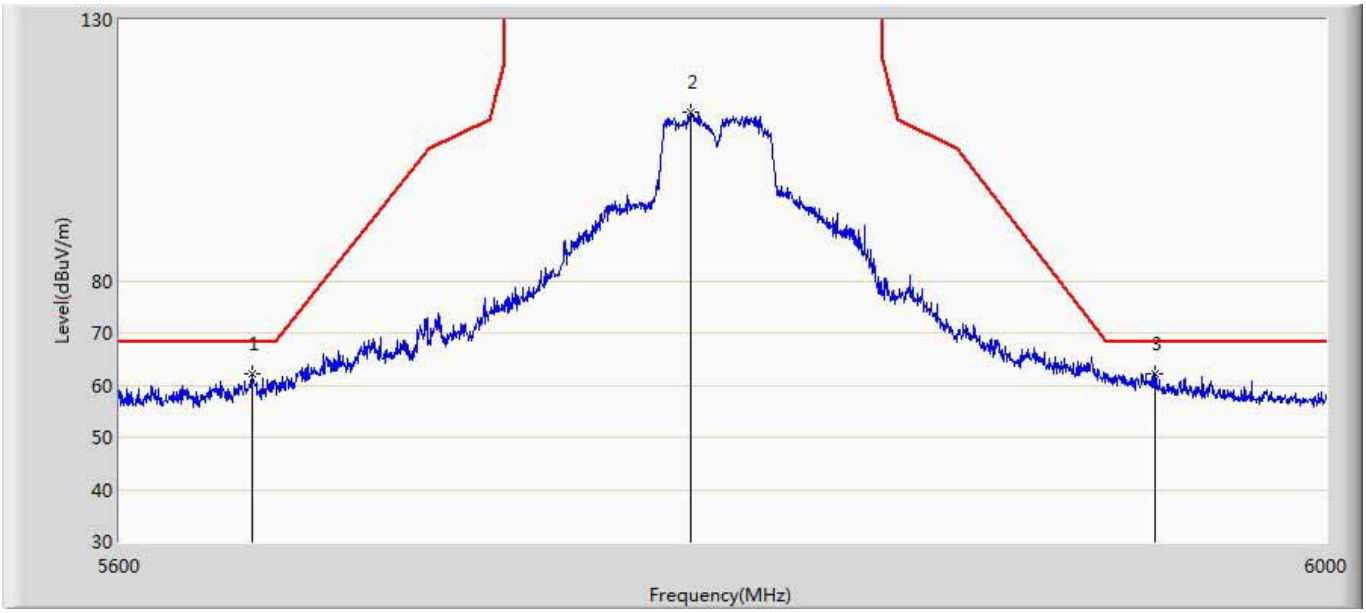
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5647.000	60.810	16.972	-7.490	68.300	43.838	PK
2		5759.600	111.083	67.084	-188.917	300.000	43.999	PK
3		5931.200	57.807	13.475	-10.493	68.300	44.333	PK

Profile: QTK No.:1652013R	Page No.: 71
Engineer: Cloud	
Site: AC5	Time: 2016/05/31 - 18:14
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 3:Transmit at CH5795 by 802.11n(40MHz)	



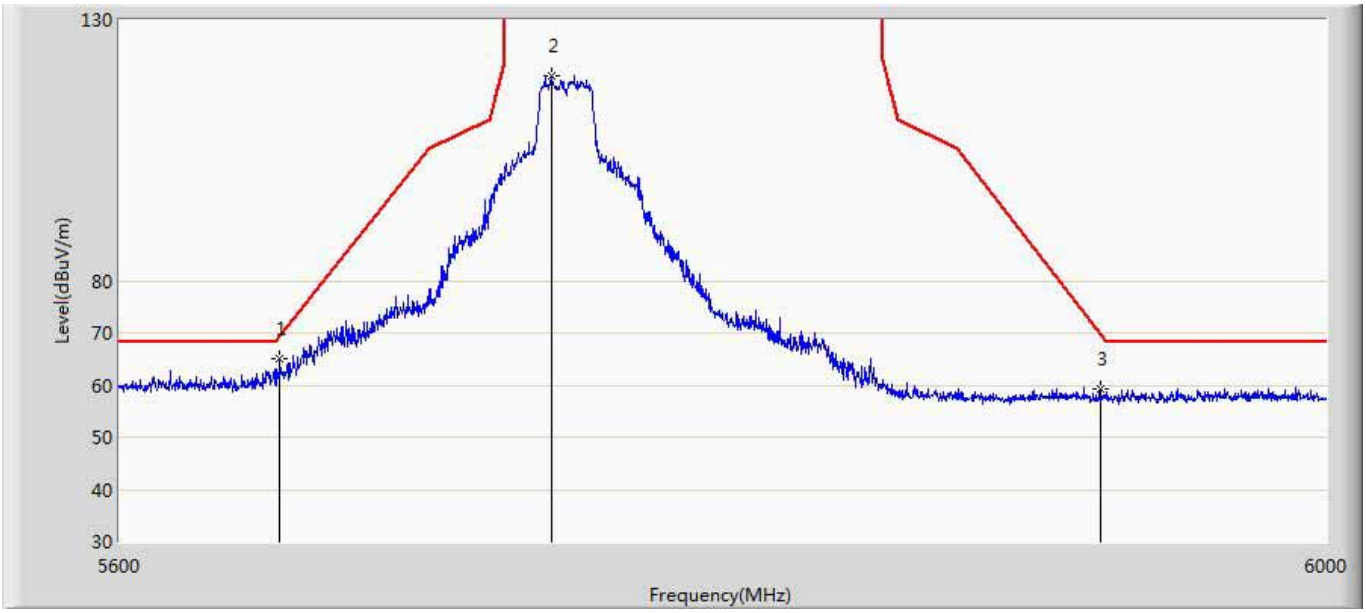
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5643.000	65.006	21.187	-3.294	68.300	43.819	PK
2		5790.400	116.206	72.166	-183.794	300.000	44.040	PK
3	*	5927.800	66.842	22.483	-1.458	68.300	44.359	PK

Profile: QTK No.:1652013R	Page No.: 72
Engineer: Cloud	
Site: AC5	Time: 2016/05/31 - 18:18
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 3:Transmit at CH5795 by 802.11n(40MHz)	



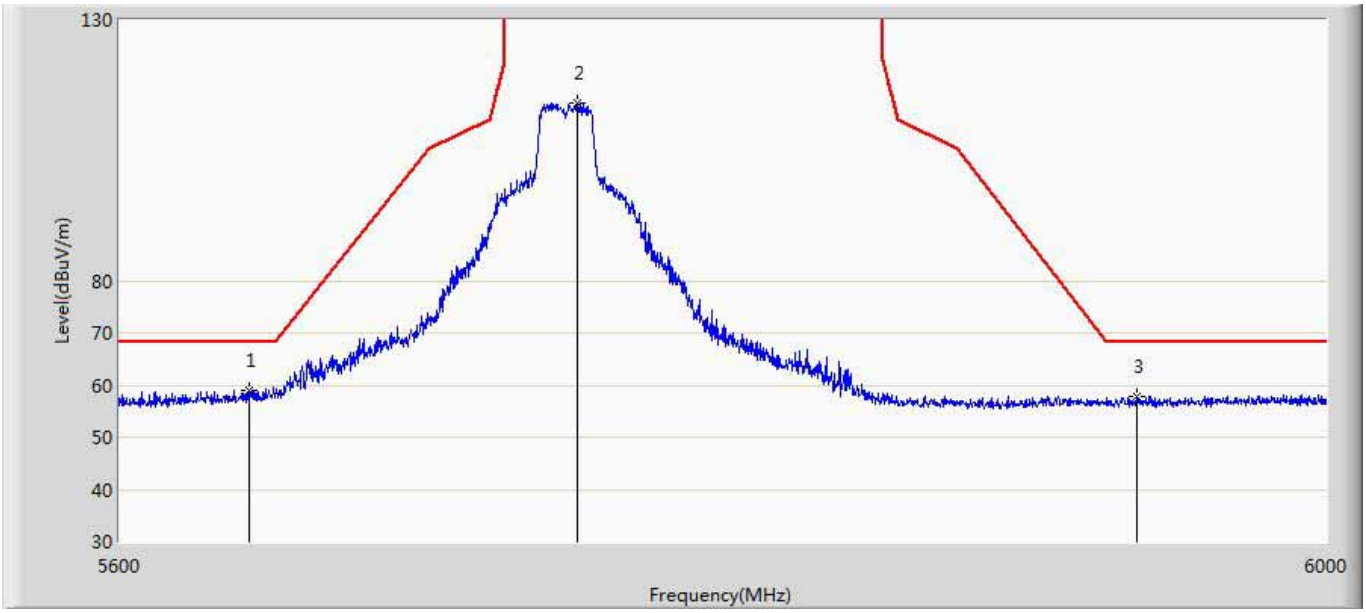
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5642.800	62.153	18.335	-6.147	68.300	43.818	PK
2		5786.200	112.176	68.143	-187.824	300.000	44.033	PK
3	*	5941.600	62.222	17.917	-6.078	68.300	44.305	PK

Profile: QTK No.:1652013R	Page No.: 73
Engineer: Cloud	
Site: AC5	Time: 2016/06/02 - 11:38
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at CH5745 by 802.11ac(20MHz)	



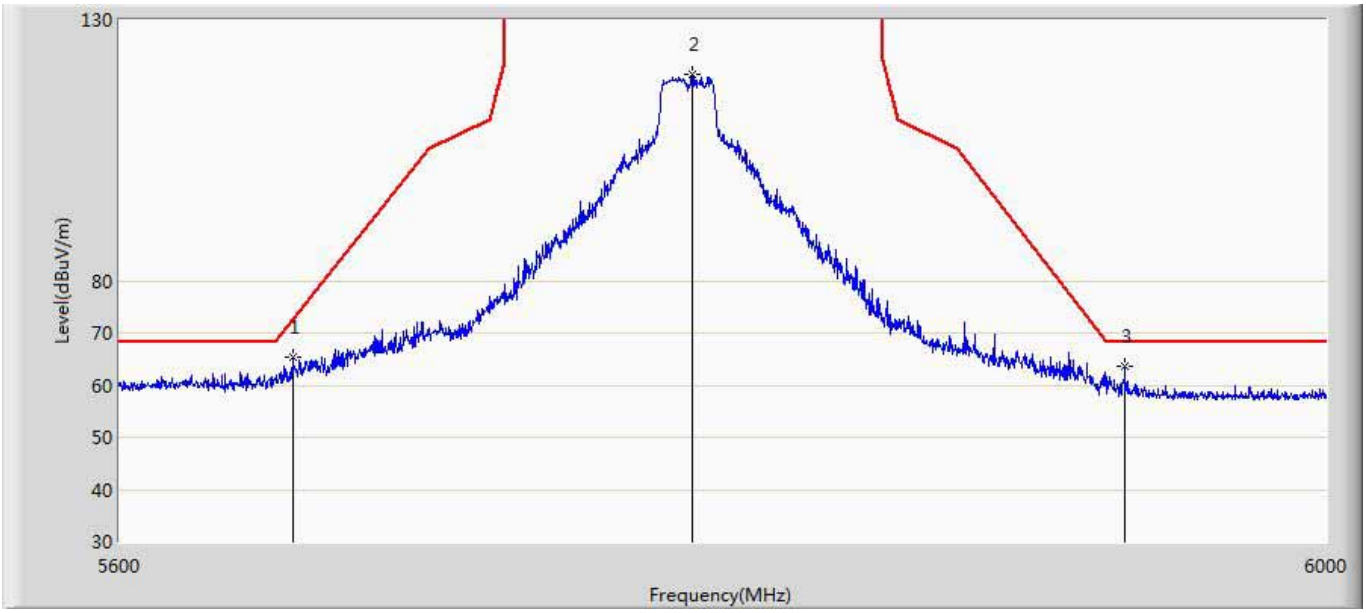
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5651.800	64.967	21.105	-4.671	69.638	43.861	PK
2		5740.000	119.353	75.162	-180.647	300.000	44.192	PK
3		5923.000	59.415	15.005	-10.359	69.774	44.410	PK

Profile: QTK No.:1652013R	Page No.: 74
Engineer: Cloud	
Site: AC5	Time: 2016/06/02 - 11:44
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at CH5745 by 802.11ac(20MHz)	



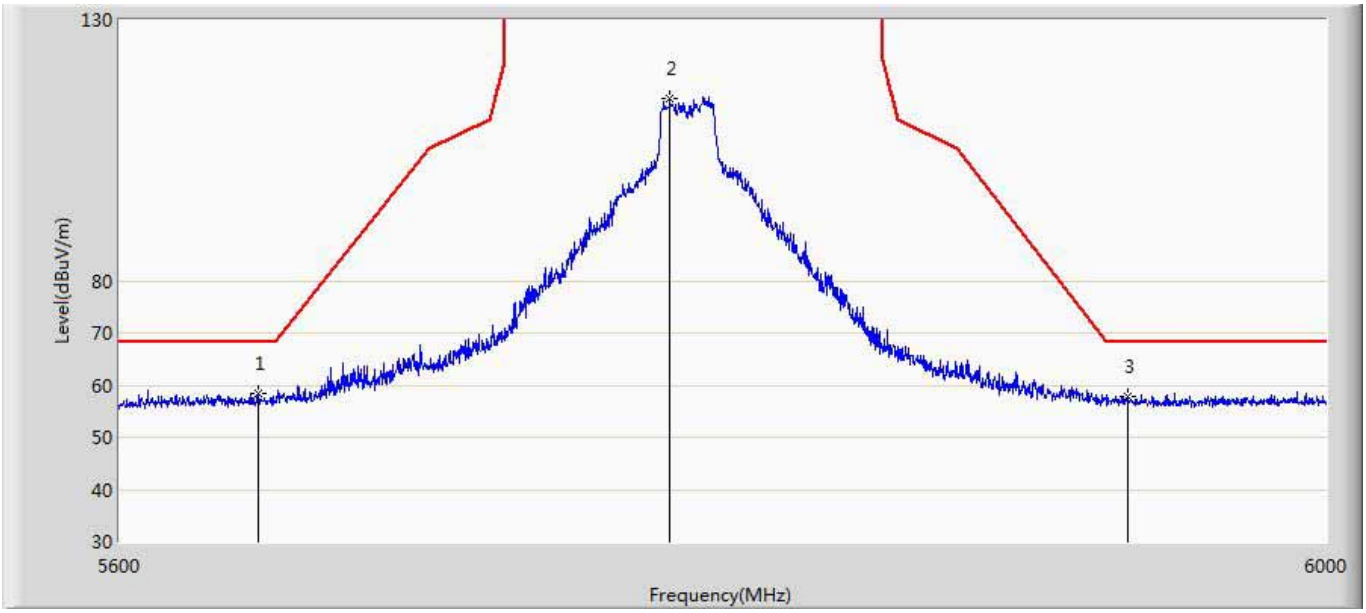
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5642.000	59.053	15.239	-9.247	68.300	43.813	PK
2		5748.800	114.067	69.927	-185.933	300.000	44.139	PK
3		5935.600	57.846	13.525	-10.454	68.300	44.321	PK

Profile: QTK No.:1652013R	Page No.: 75
Engineer: Cloud	
Site: AC5	Time: 2016/06/02 - 11:46
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at CH5785 by 802.11ac(20MHz)	



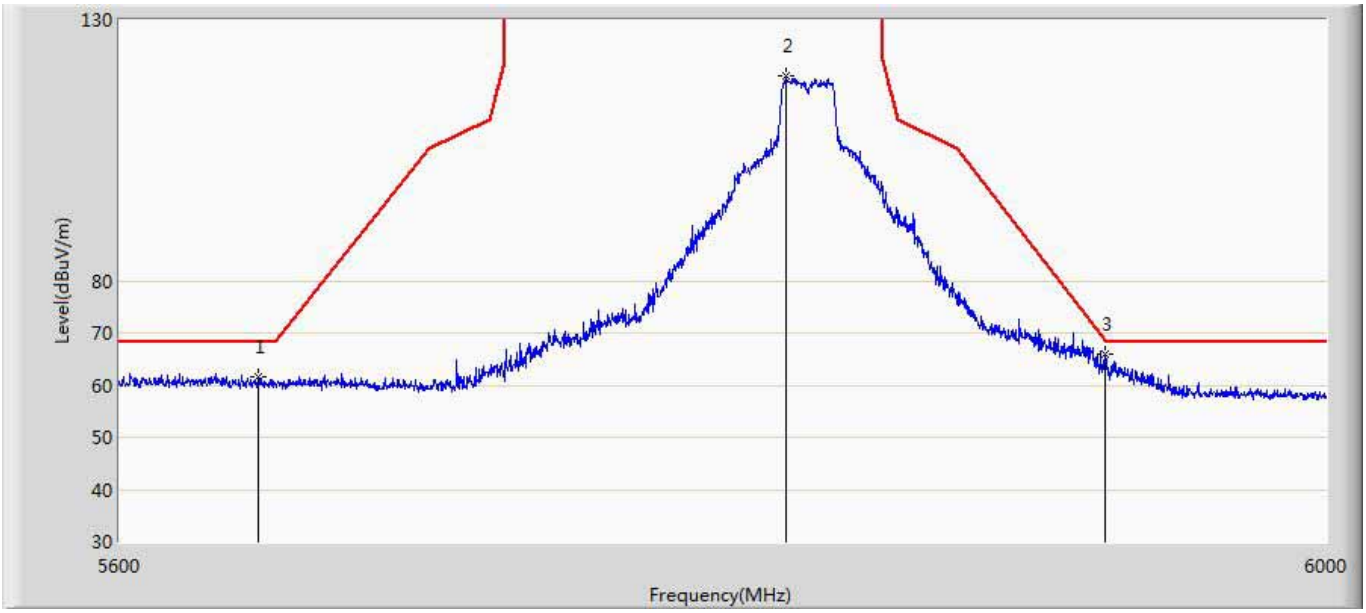
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5655.800	65.490	21.609	-7.119	72.609	43.881	PK
2		5786.400	119.526	75.493	-180.474	300.000	44.033	PK
3	*	5931.400	63.575	19.243	-4.725	68.300	44.332	PK

Profile: QTK No.:1652013R	Page No.: 76
Engineer: Cloud	
Site: AC5	Time: 2016/06/02 - 11:49
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at CH5785 by 802.11ac(20MHz)	



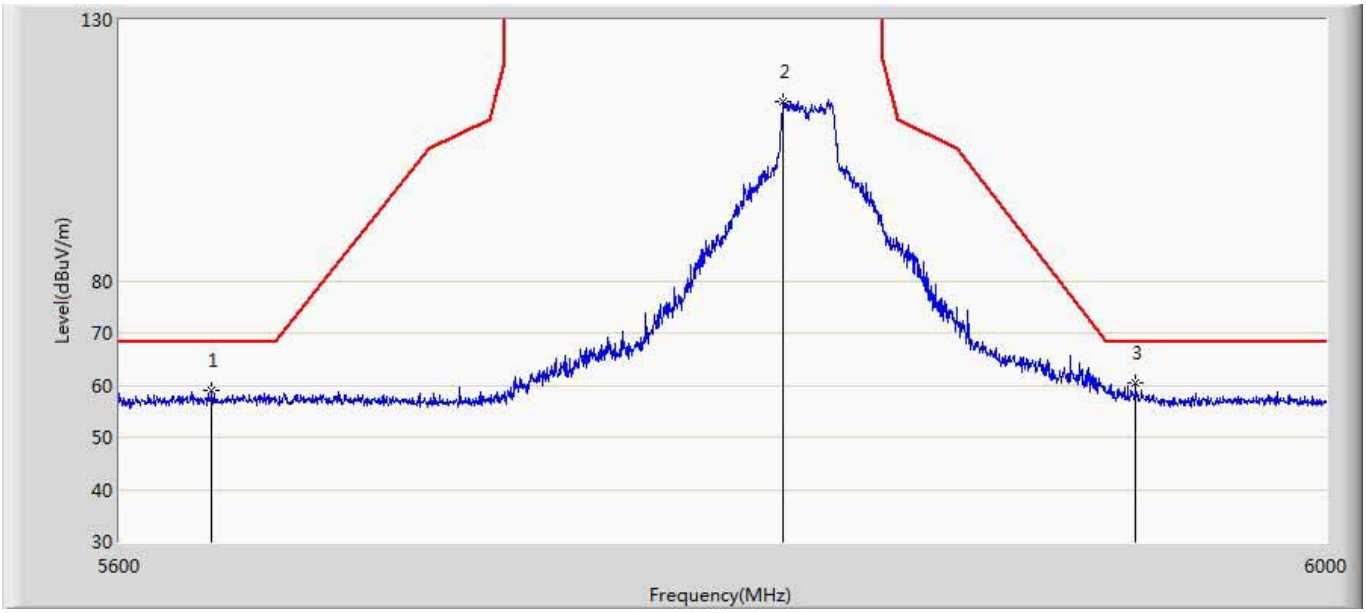
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5644.800	58.460	14.633	-9.840	68.300	43.827	PK
2		5779.000	115.008	70.986	-184.992	300.000	44.022	PK
3		5932.400	57.919	13.590	-10.381	68.300	44.329	PK

Profile: QTK No.:1652013R	Page No.: 77
Engineer: Cloud	
Site: AC5	Time: 2016/06/02 - 11:51
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at CH5825 by 802.11ac(20MHz)	



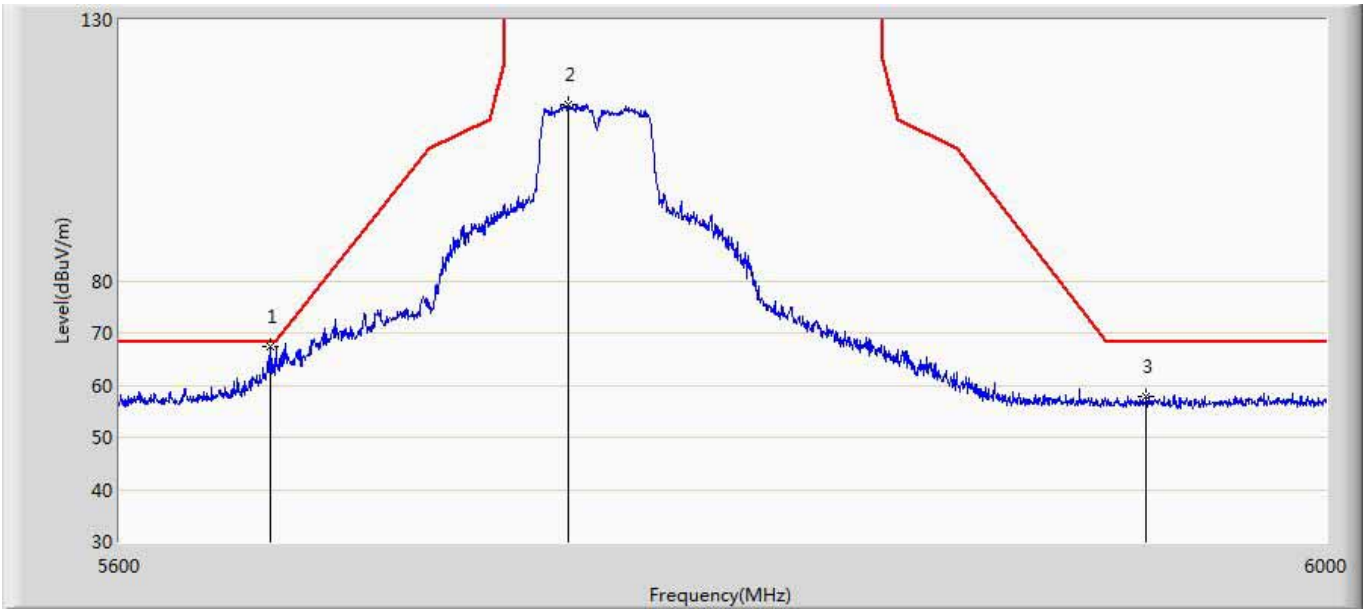
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5644.600	61.469	17.643	-6.831	68.300	43.826	PK
2		5817.600	119.286	75.124	-180.714	300.000	44.162	PK
3	*	5924.600	65.906	21.513	-2.689	68.595	44.393	PK

Profile: QTK No.:1652013R	Page No.: 78
Engineer: Cloud	
Site: AC5	Time: 2016/06/02 - 11:55
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at CH5825 by 802.11ac(20MHz)	



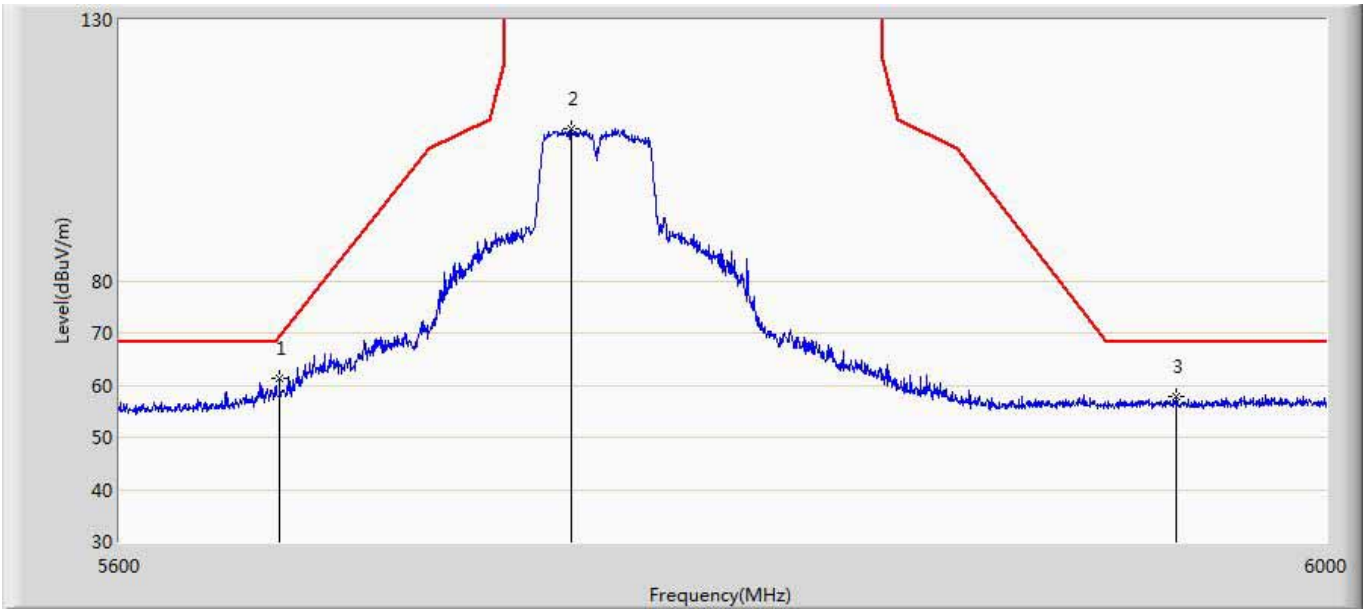
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5629.600	58.969	15.287	-9.331	68.300	43.682	PK
2		5816.800	114.468	70.315	-185.532	300.000	44.153	PK
3	*	5935.000	60.349	16.027	-7.951	68.300	44.322	PK

Profile: QTK No.:1652013R	Page No.: 79
Engineer: Cloud	
Site: AC5	Time: 2016/06/02 - 11:58
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 5:Transmit at CH5755 by 802.11ac(40MHz)	



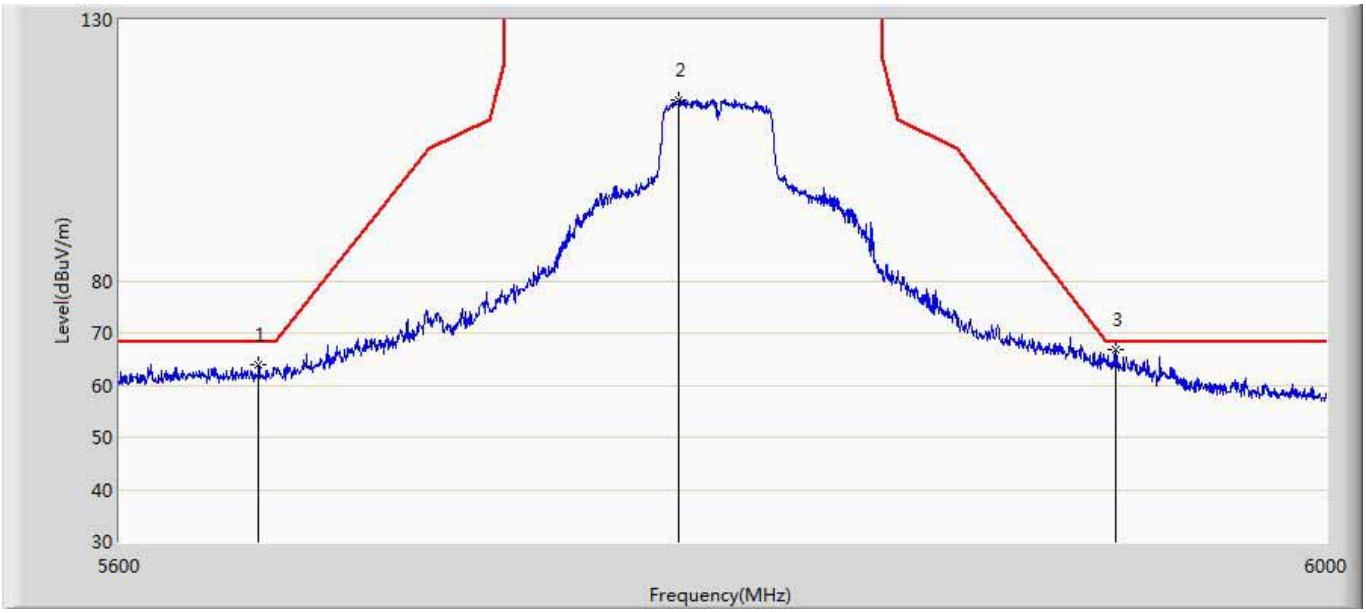
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5648.800	67.345	23.498	-0.955	68.300	43.847	PK
2		5745.600	113.895	69.714	-186.105	300.000	44.182	PK
3		5938.800	57.918	13.605	-10.382	68.300	44.312	PK

Profile: QTK No.:1652013R	Page No.: 80
Engineer: Cloud	
Site: AC5	Time: 2016/06/02 - 12:01
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 5:Transmit at CH5755 by 802.11ac(40MHz)	



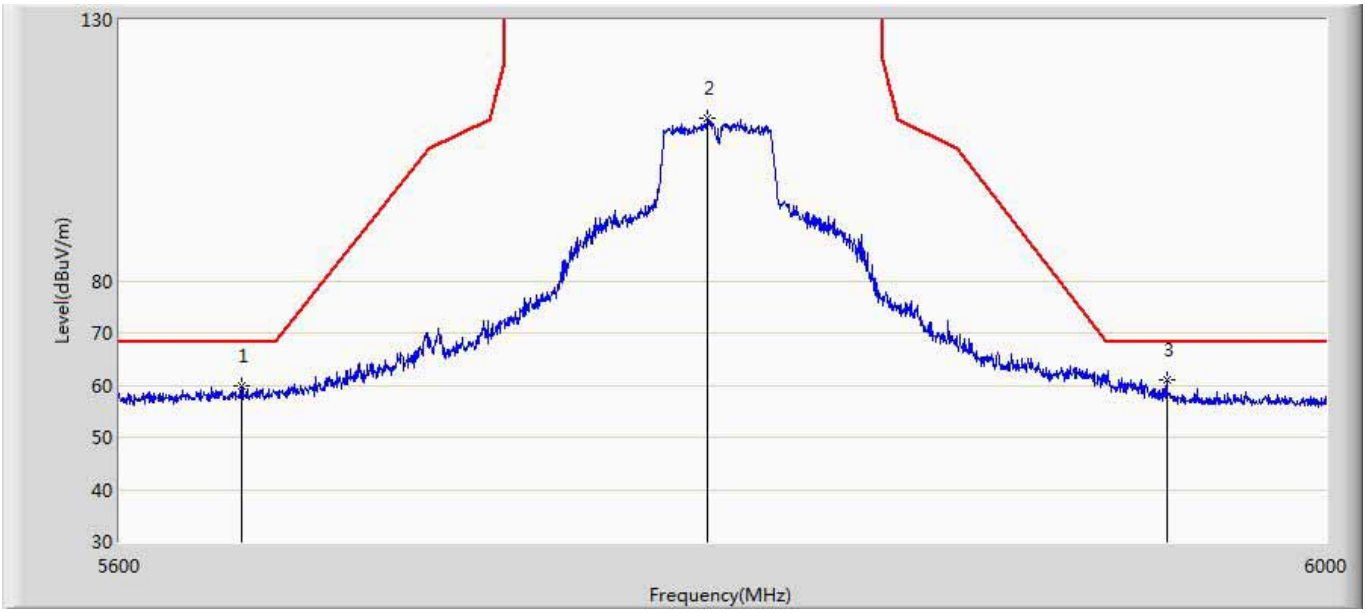
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5651.600	61.424	17.563	-8.065	69.489	43.861	PK
2		5746.800	109.073	64.907	-190.927	300.000	44.165	PK
3		5948.800	57.693	13.370	-10.607	68.300	44.323	PK

Profile: QTK No.:1652013R	Page No.: 81
Engineer: Cloud	
Site: AC5	Time: 2016/06/02 - 12:02
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 5:Transmit at CH5795 by 802.11ac(40MHz)	



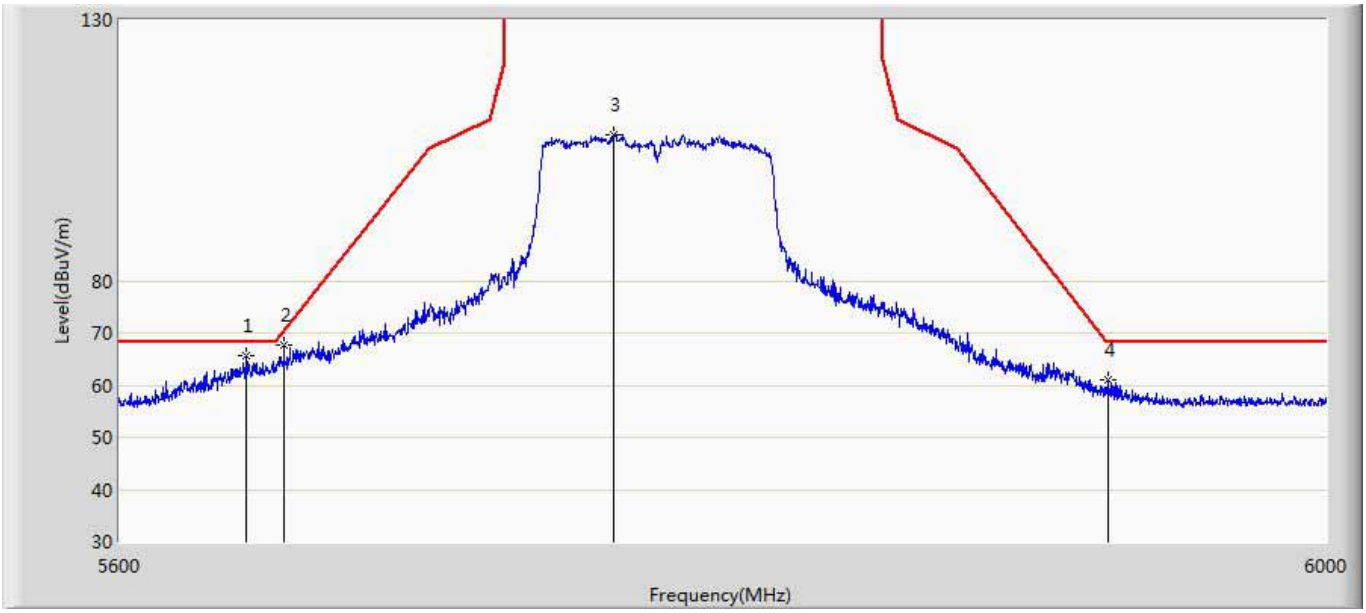
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5644.800	63.900	20.073	-4.400	68.300	43.827	PK
2		5782.200	114.667	70.640	-185.333	300.000	44.027	PK
3	*	5928.200	66.720	22.365	-1.580	68.300	44.354	PK

Profile: QTK No.:1652013R	Page No.: 82
Engineer: Cloud	
Site: AC5	Time: 2016/06/02 - 12:04
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 5:Transmit at CH5795 by 802.11ac(40MHz)	



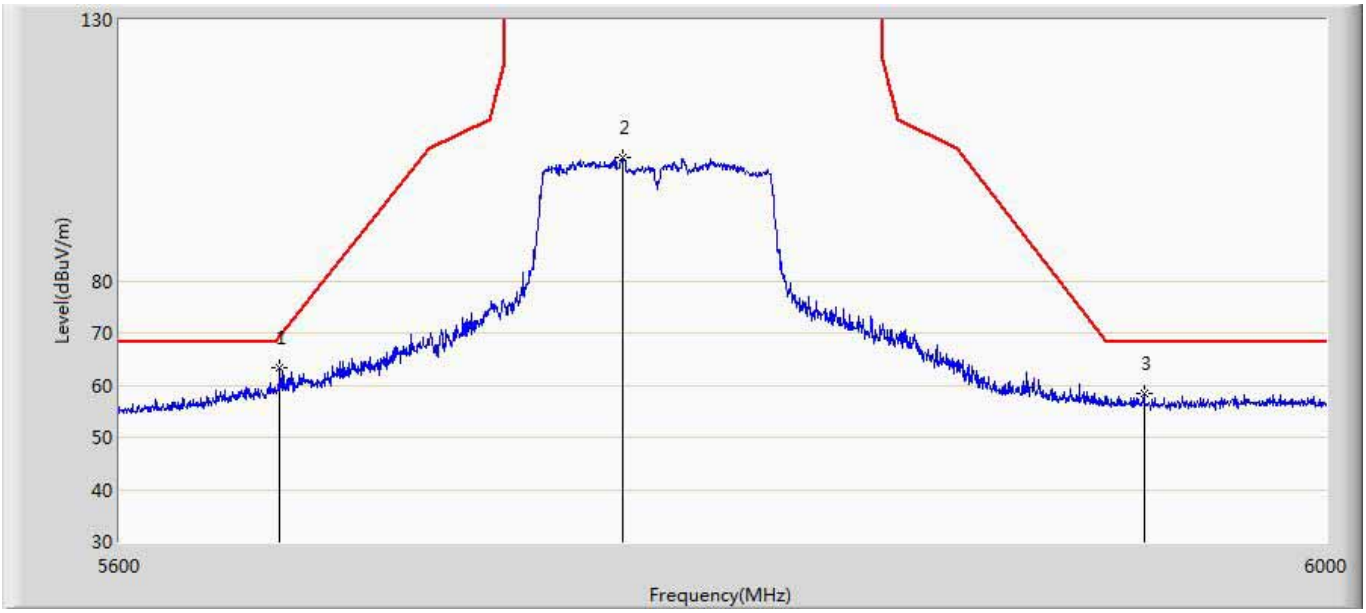
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5639.400	59.731	15.940	-8.569	68.300	43.791	PK
2		5791.600	111.045	67.003	-188.955	300.000	44.042	PK
3	*	5945.800	61.005	16.711	-7.295	68.300	44.294	PK

Profile: QTK No.:1652013R	Page No.: 83
Engineer: Cloud	
Site: AC5	Time: 2016/06/02 - 12:06
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 6:Transmit at CH5775 by 802.11ac(80MHz)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5641.000	65.713	21.904	-2.587	68.300	43.809	PK
2		5653.000	67.676	23.808	-2.854	70.529	43.868	PK
3		5760.400	108.001	64.007	-191.999	300.000	43.995	PK
4		5925.800	61.126	16.746	-7.174	68.300	44.380	PK

Profile: QTK No.:1652013R	Page No.: 84
Engineer: Cloud	
Site: AC5	Time: 2016/06/02 - 12:08
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT:AC1200 Wireless Dual Band Gigabit Access Point	Power: AC 120V/60Hz
Note: Mode 6:Transmit at CH5775 by 802.11ac(80MHz)	



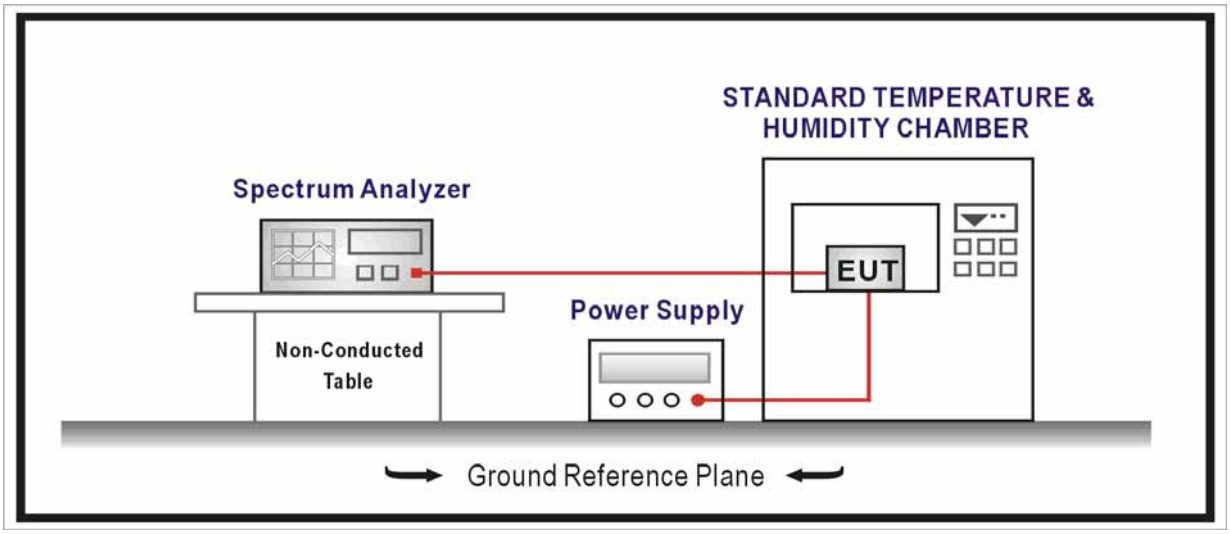
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5651.800	63.335	19.473	-6.303	69.638	43.861	PK
2		5763.600	103.591	59.592	-196.409	300.000	43.999	PK
3		5938.000	58.421	14.106	-9.879	68.300	44.314	PK

10. Frequency Stability

10.1. Test Equipment

Frequency Stability / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2016.01.08	2017.01.07
AC Power Supply	IDRC	CF-500TP	979422	2015.09.17	2016.09.16
DC Power Supply	IDRC	CD-035-020PR	977272	2015.09.17	2016.09.16
Programmable Temperature & Humidity Chamber	Gaoyu	TH-1P-B	WIT-05121302	2016.01.08	2017.01.07
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2016.04.10	2017.04.09
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

10.2. Test Setup



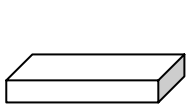
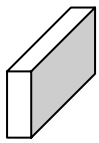
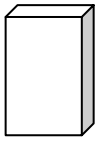
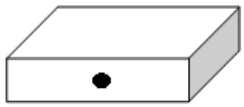
10.3. Limit

Frequency Stability Limit	
UNII Devices	
☒	In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.
IEEE Std. 802.11n-2009	
☒	The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band and ± 25ppm maximum for the 2.4 GHz band.

10.4. Test Procedure

Frequency Stability Test Method				
	References Rule		Chapter	Description
☒	ANSI C63.10		6.8	Frequency stability tests
	☒	ANSI C63.10	6.8.1	Frequency stability with respect to ambient temperature
	☒	ANSI C63.10	6.8.2	Frequency stability when varying supply voltage

10.5. EUT test Axis definition

<table>
<tr><td>Item</td><td colspan="4">Frequency Stability</td></tr>
<tr><td rowspan="4">Device Category</td><td>☒</td><td colspan="3">Indoor use</td></tr>
<tr><td>☐</td><td colspan="3">Outdoor use</td></tr>
<tr><td>☐</td><td colspan="3">Fix position use</td></tr>
<tr><td>☐</td><td colspan="3">Mobile position use</td></tr>
<tr><td>Test mode</td><td colspan="4">Mode 1-6</td></tr>
<tr><td rowspan="11">Test method</td><td>☐</td><td colspan="3">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td>Z Axis</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Worst Axis ☐</td><td>Worst Axis ☒</td><td>Worst Axis ☐</td></tr>
<tr><td>☒</td><td colspan="3">Conducted</td></tr>
<tr><td>☐</td><td colspan="3">Chain 0</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
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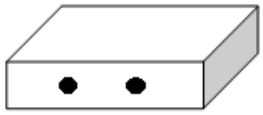
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 0</td><td>Chain 1</td><td>Chain 2</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
</table>

10.6. Test Result

Product	:	AC1200 Wireless Dual Band Gigabit Access Point
Test Item	:	Frequency Stability
Test Site	:	TR-8
Test Mode	:	Carrier Transmit

Frequency Stability under Temperature

Temperature Interval ( )	Test Frequency (MHz)	Deviation (Hz)
0	5220.000	213
10	5220.000	212
20	5220.000	190
30	5220.000	187
40	5220.000	203

Frequency Stability under Voltage

AC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)
102	5220.000	244
120	5220.000	125
138	5220.000	212

The End