



中国认可  
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检测  
TESTING  
CNAS L5313



**DEKRA**

# Test Report

## FCC Part15 Subpart E

Product Name : AC1200 Wireless Dual Band Gigabit Router

Model No. : Archer C1200

FCC ID : TE7C1200V2

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 : Oct. 17, 2016

Test Date : Oct. 17, 2016~ Feb. 09, 2017

Issued Date : Feb. 23, 2017

Report No. : 16A2038R-RF-US-P09V02

Report Version : V1.2

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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# Test Report Certification

Issued Date : Feb. 23, 2017  
 Report No. : 16A2038R-RF-US-P09V02



Product Name : AC1200 Wireless Dual Band Gigabit Router  
 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. : Archer C1200  
 FCC ID : TE7C1200V2  
 EUT Voltage : AC 100-240V, 50/60Hz  
 Test Voltage : 120V/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 v01r03  
 KDB 662911 D01 Multiple Transmitter Output v02r01  
 Test Result : Complied  
 Performed Location : DEKRA Testing and Certification (Suzhou) Co., Ltd.  
 Corporation - Suzhou EMC Laboratory  
 No.99 Hongye Rd., Suzhou Industrial Park, Suzhou,215006, Jiangsu, China  
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 FCC Registration Number: 800392;

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## TABLE OF CONTENTS

Description	Page
1. General Information .....	7
1.1. EUT Description .....	7
1.2. Antenna information .....	8
1.3. Working Frequency of Each Channel:.....	9
1.4. Mode of Operation .....	10
1.5. Tested System Details .....	11
1.6. Configuration of Tested System .....	12
1.7. EUT Exercise Software .....	14
2. Technical Test .....	15
2.1. Summary of Test Result .....	15
2.2. Test Frequency configuration: .....	15
2.3. Power Parameter Value of the test software .....	16
Beamforming:.....	17
2.4. Power vs Data Rate .....	18
2.5. Duty Cycle .....	20
2.6. Test Environment .....	23
2.7. Uncertainty .....	23
3. Conducted Emission .....	24
3.1. Test Equipment .....	24
3.2. Test Setup .....	24
3.3. Limit.....	25
3.4. Test Procedure .....	25
3.5. Test Result .....	26
4. Radiated Emission .....	28
4.1. Test Equipment .....	28
4.2. Test Setup .....	29
4.3. Limit.....	30

4.4.	Test Procedure .....	33
4.5.	EUT test Axis definition .....	34
4.6.	Test Result .....	35
5.	Emission bandwidth and occupied bandwidth .....	52
5.1.	Test Equipment .....	52
5.2.	Test Setup .....	52
5.3.	Limit.....	52
5.4.	Test Procedure .....	53
5.5.	EUT test Axis definition .....	54
5.6.	Test Result .....	55
6.	6dB bandwidth .....	57
6.1.	Test Equipment .....	57
6.2.	Test Setup .....	57
6.3.	Limit.....	57
6.4.	Test Procedure .....	58
6.5.	EUT test Axis definition .....	59
6.6.	Test Result .....	60
7.	Power Output.....	62
7.1.	Test Equipment .....	62
7.2.	Test Setup .....	62
7.3.	Limit.....	63
7.4.	Test Procedure .....	64
7.5.	EUT test Axis definition .....	66
7.6.	Test Result .....	67
8.	Peak Power Spectral Density.....	71
8.1.	Test Equipment .....	71
8.2.	Test Setup .....	71
8.3.	Limit.....	72
8.4.	Test Procedure .....	73

8.5.	EUT test Axis definition .....	74
8.6.	Test Result .....	75
9.	Radiated Emission Band Edge .....	80
9.1.	Test Equipment .....	80
9.2.	Test Setup .....	80
9.3.	Limit.....	81
9.4.	Test Procedure .....	84
9.5.	EUT test Axis definition .....	85
9.6.	Test Result .....	86
10.	Frequency Stability .....	179
10.1.	Test Equipment .....	179
10.2.	Test Setup .....	179
10.3.	Limit.....	180
10.4.	Test Procedure .....	181
10.5.	EUT test Axis definition .....	182
10.6.	Test Result .....	183
11.	Antenna Requirement.....	184
11.1.	Limit.....	184
11.2.	Antenna Connector Construction .....	184

## History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
16A2038R-RF-US-P09V02	V1.0	Initial Issued Report	Feb. 13, 2017
16A2038R-RF-US-P09V02	V1.1	Add the simultaneously spurious emission while radiating at 2.4 and 5 GHz	Feb. 22, 2017
16A2038R-RF-US-P06V02	V1.2	Modified P49 data	Feb. 23, 2017

## 1. General Information

### 1.1. EUT Description

Product Name	AC1200 Wireless Dual Band Gigabit Router					
Brand Name	TP-Link					
Model No.	Archer C1200					
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 866.6Mbps					
Channel Control	Auto					
Transmit modes	<input checked="" type="checkbox"/>	802.11a	<input checked="" type="checkbox"/>	802.11n(20MHz)	<input checked="" type="checkbox"/>	802.11n(40MHz)
	<input checked="" type="checkbox"/>	802.11ac(20MHz)	<input checked="" type="checkbox"/>	802.11ac(40MHz)	<input checked="" type="checkbox"/>	802.11ac(80MHz)
Support Bands	<input checked="" type="checkbox"/>	5150MHz~5250MHz	<input type="checkbox"/>	Outdoor AP		
			<input checked="" type="checkbox"/>	Indoor AP		
			<input type="checkbox"/>	Fixed point-to-point AP		
			<input type="checkbox"/>	Fixed point-to-Multi point AP		
			<input type="checkbox"/>	Mobile and Portable Client		
	<input type="checkbox"/>	5250MHz~5350MHz				
	<input type="checkbox"/>	5470MHz~5725MHz	<input type="checkbox"/>	With TDWR Channels		
<input type="checkbox"/>			Without TDWR Channels			
<input checked="" type="checkbox"/>	5725MHz~5850MHz					

**1.2. Antenna information**

Antenna Model	N/A		
Antenna Manufacturer	TP-Link		
Antenna Delivery	<input type="checkbox"/> 1*TX+1*RX	<input checked="" type="checkbox"/> 2*TX+2*RX	<input type="checkbox"/> 3*TX+3*RX
Antenna Technology	<input type="checkbox"/> SISO		
	<input checked="" type="checkbox"/> MIMO	<input type="checkbox"/> Basic methodology with NANT transmit antennas	
		<input type="checkbox"/> Sectorized antenna systems	
		<input type="checkbox"/> Cross-polarized antennas	
		<input type="checkbox"/> Unequal antenna gains, with equal transmit powers	
		<input checked="" type="checkbox"/> Spatial Multiplexing	
	<input checked="" type="checkbox"/> Cyclic Delay Diversity (CDD)		
Antenna Type	Dipole Antenna		

Antenna Information			
No.		Ant Gain/ Directional Gain (dBi)	
<input type="checkbox"/> SISO	<input type="checkbox"/> Antenna 0	3.17	
	<input type="checkbox"/> Antenna 1	2.69	
	<input type="checkbox"/> Antenna 2	N/A	
<input type="checkbox"/> Basic	N/A		
<input checked="" type="checkbox"/> CDD	For power: 3.17 For PSD: 5.90		
<input checked="" type="checkbox"/> Beam-forming	For power: 5.90 For PSD: 5.90		



### 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

DEKRA Testing and Certification (Suzhou) Co., Ltd. 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
Mode 2: Transmit by 802.11n(20MHz)
Mode 3: Transmit by 802.11n(40MHz)
Mode 4: Transmit by 802.11ac(20MHz)
Mode 5: Transmit by 802.11ac(40MHz)
Mode 6: Transmit by 802.11ac(80MHz)
Mode 7: Transmit by 802.11n(20MHz) with Beamforming
Mode 8: Transmit by 802.11n(40MHz) with Beamforming
Mode 9: Transmit by 802.11ac(20MHz) with Beamforming
Mode 10: Transmit by 802.11ac(40MHz) with Beamforming
Mode 11: Transmit by 802.11ac(80MHz) with Beamforming

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.

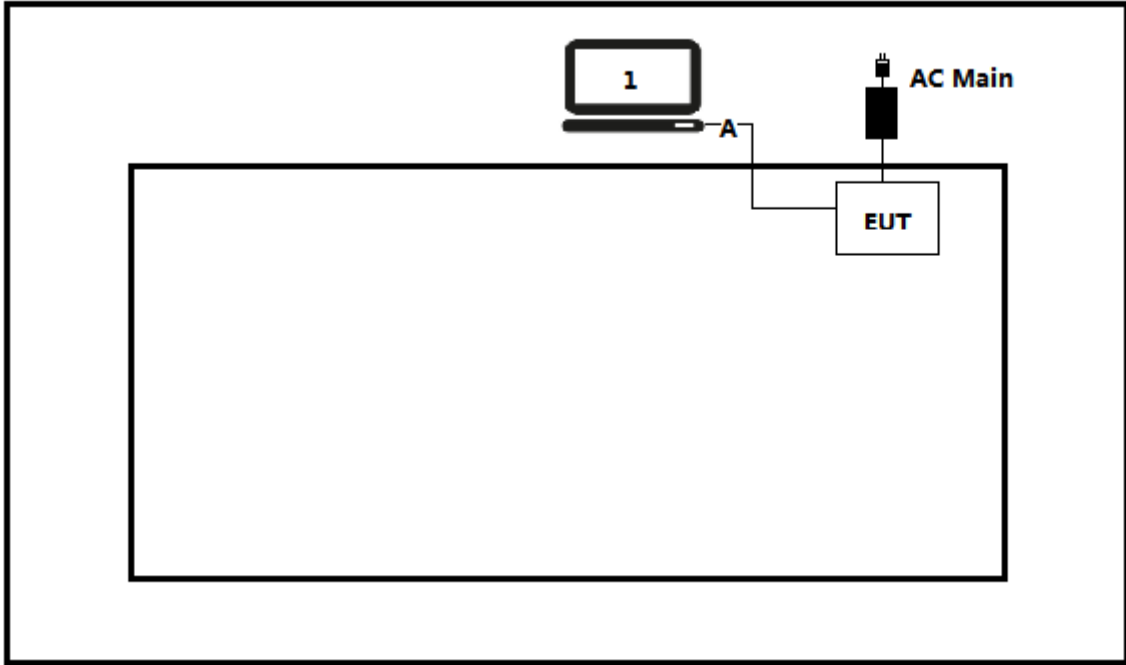
### 1.5. Tested System Details

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

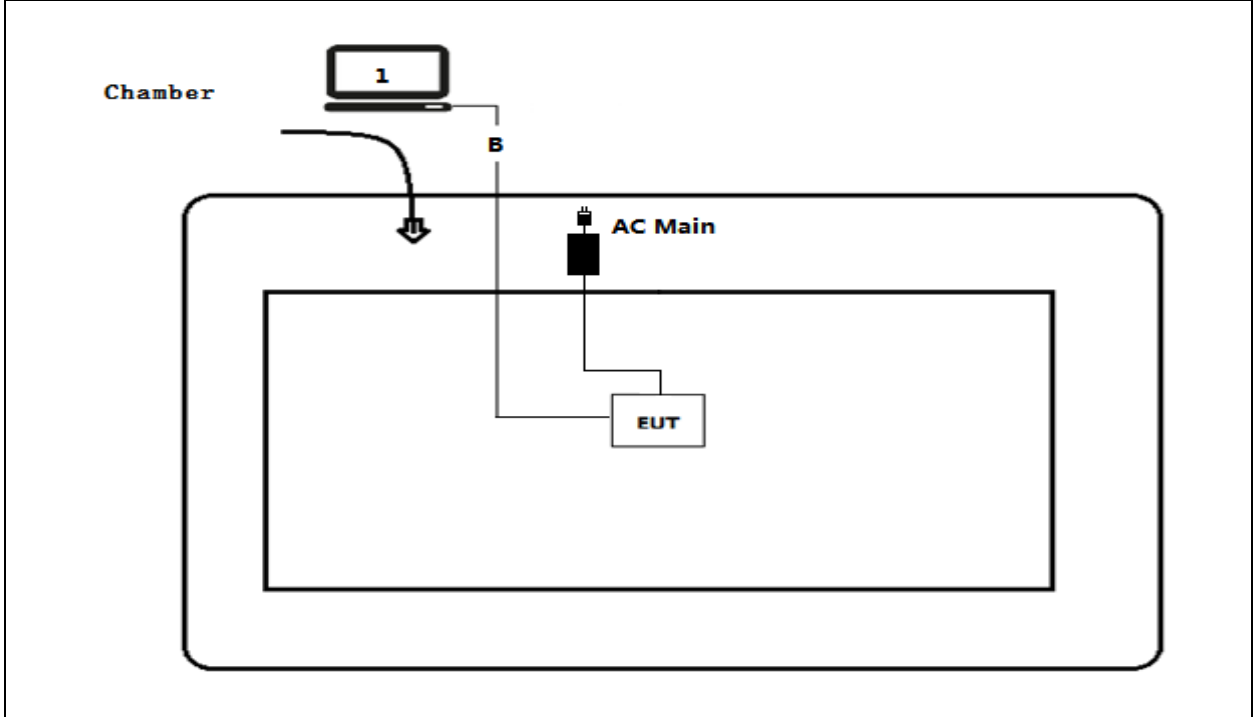
Product	Manufacturer	Model No.	Serial No.	Power Cord
1   Notebook	Lenovo	Think pad x220	SUA0600195	Non-shielded
2   Notebook	Asus	N80V	8BN0AS226971468	Non-shielded

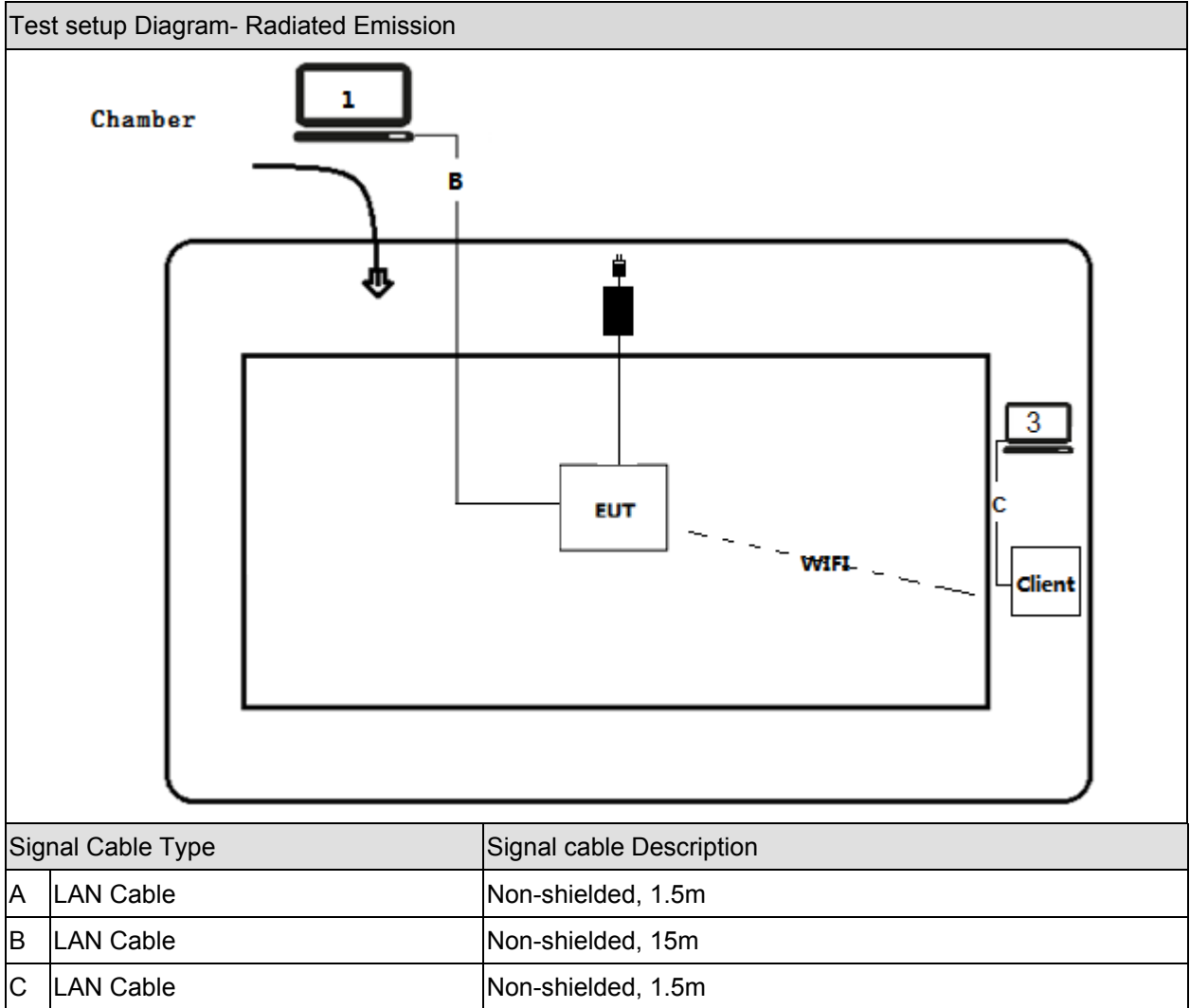
### 1.6. Configuration of Tested System

Test setup Diagram- AC Line Conducted Emission Test



Test setup Diagram- Radiated Emission





### 1.7. EUT Exercise Software

1	Setup the EUT and Client as shown on above.
2	Turn on the power of equipment.
3	Configure the client and connect the EUT.
4	CDD: Open Mtool, and set the test mode and channel, then traffic and test. Beam-forming: Input RF commands, and set the test mode and channel, then traffic and test.

## 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	Limit	Result
Conducted Emission	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.207	FCC 15.207	PASS
Radiated Emission	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.209	FCC 15.209	PASS
Emission bandwidth and occupied bandwidth	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.407(a)	FCC 15.407(e)	PASS
6dB Emission Bandwidth	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.407(a)	FCC 15.407(e)	PASS
Power Output	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.407(a)	FCC 15.407(a)	PASS
Peak Power Spectral Density	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.407(a)	FCC 15.407(a)	PASS
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.205, 15.407(b)	FCC 15.407(b)	PASS
Frequency Stability	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.407(g)	Within the band	PASS
Antenna Requirement	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.203	FCC 15.203	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	N/A	N/A
	151	5755MHz	159	5795MHz	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	Frequency	Power Setting		
		Ant 0	Ant 1	Ant 0+1
802.11a	5180	-	-	92
	5220	-	-	100
	5240	-	-	100
	5745	-	-	100
	5785	-	-	104
	5825	-	-	98
802.11n(20MHz)	5180	-	-	80
	5220	-	-	100
	5240	-	-	103
	5745	-	-	98
	5785	-	-	104
	5825	-	-	98
802.11n(40MHz)	5190	-	-	73
	5230	-	-	95
	5755	-	-	103
	5795	-	-	102
802.11ac(20MHz)	5180	-	-	78
	5220	-	-	100
	5240	-	-	103
	5745	-	-	104
	5785	-	-	104
	5825	-	-	98
802.11ac(40MHz)	5190	-	-	73
	5230	-	-	95
	5755	-	-	102
	5795	-	-	102
802.11ac(80MHz)	5210	-	-	65
	5775	-	-	93



**Beamforming:**

802.11n(20MHz)	5180	-	-	21
	5220	-	-	24
	5240	-	-	24
	5745	-	-	24
	5785	-	-	24
	5825	-	-	24
802.11n(40MHz)	5190	-	-	15
	5230	-	-	24
	5755	-	-	24
	5795	-	-	24
802.11ac(20MHz)	5180	-	-	21
	5220	-	-	24
	5240	-	-	24
	5745	-	-	24
	5785	-	-	24
	5825	-	-	24
802.11ac(40MHz)	5190	-	-	15
	5230	-	-	23
	5755	-	-	24
	5795	-	-	24
802.11ac(80MHz)	5210	-	-	15
	5775	-	-	23

## 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.

2: The EUT has two spatial streams.

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

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

2: The EUT has two spatial streams.

## 2.5. Duty Cycle

Test Mode	Tx On (ms)	Tx Off (ms)	VBW	Tx On + Tx Off (ms)	Duty Cycle
802.11a	2.050	0.125	510Hz	2.175	94.25%
802.11n(20MHz)	1.905	0.11	560Hz	2.015	94.54%
802.11n(40MHz)	0.924	0.117	1.1kHz	1.041	88.76%
802.11ac(20MHz)	1.915	0.04	560Hz	1.955	97.95%
802.11ac(40MHz)	0.918	0.063	1.1kHz	0.981	93.58%
802.11ac(80MHz)	0.425	0.064	2.4kHz	0.489	86.91%

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.

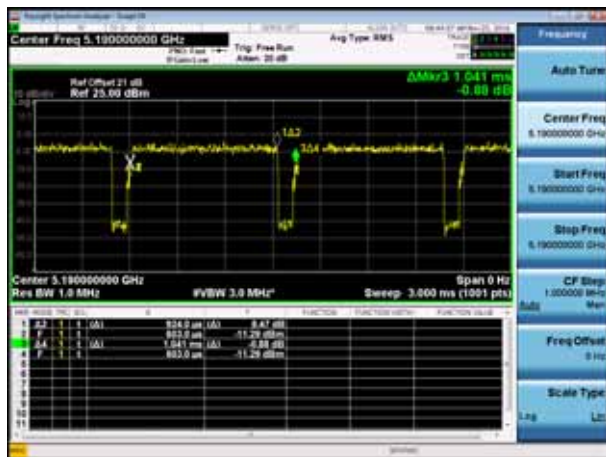
802.11a



802.11n(20MHz)



802.11n(40MHz)



802.11ac(20MHz)



802.11ac(40MHz)



802.11ac(80MHz)



**Beamforming:**

Test Mode	Tx On (ms)	Tx Off (ms)	VBW	Tx On + Tx Off (ms)	Duty Cycle
802.11n(20MHz)	1.892	0.116	560Hz	2.008	94.22%
802.11n(40MHz)	1.047	0.141	1kHz	1.188	88.13%
802.11ac(20MHz)	1.916	0.048	560Hz	1.964	97.56%
802.11ac(40MHz)	0.918	0.066	1.1kHz	0.984	93.29%
802.11ac(80MHz)	0.418	0.074	2.4kHz	0.492	84.96%

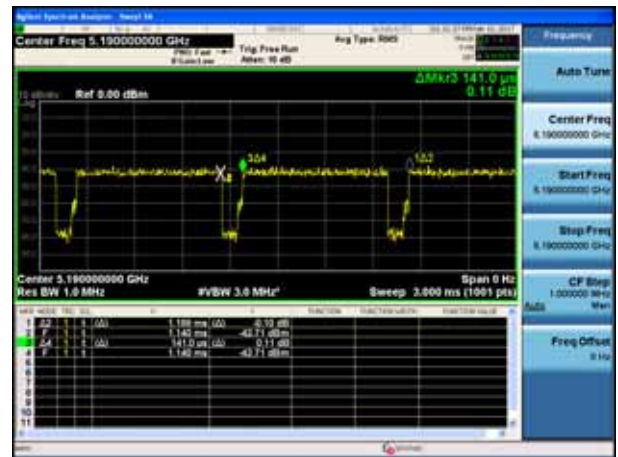
Note 1: T means the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Note 2: According to ANSI C63.10 , when test for Radiated Emission Band Edge and Radiated Emission, VBW = 1/T will be used.

802.11n(20MHz)



802.11n(40MHz)

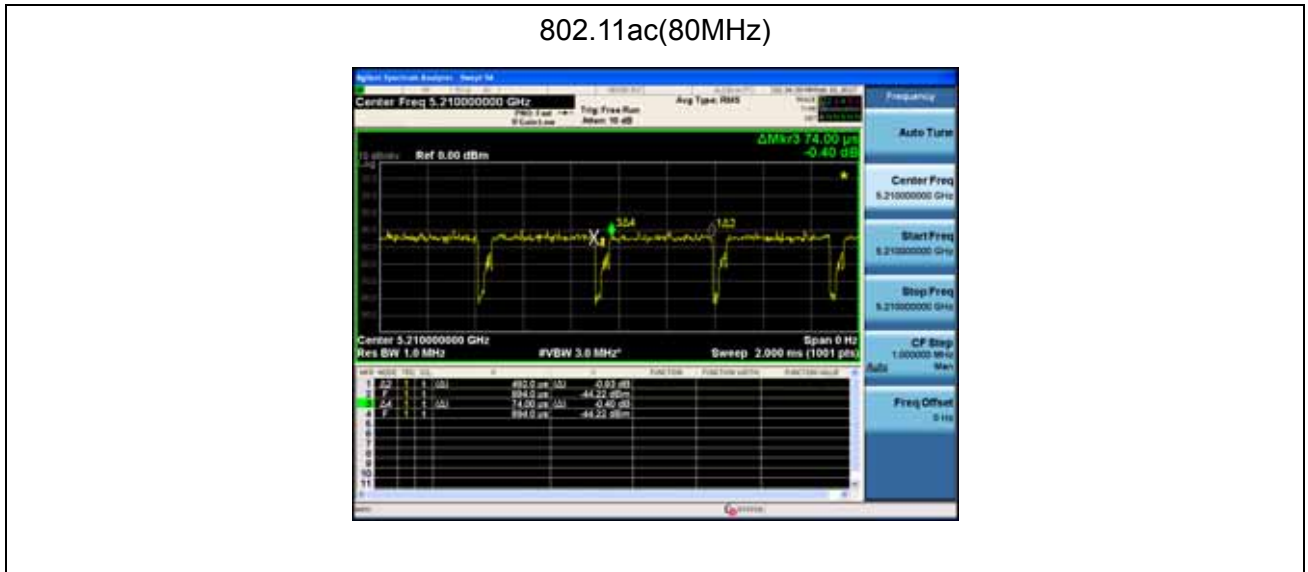


802.11ac(20MHz)



802.11ac(40MHz)





## 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

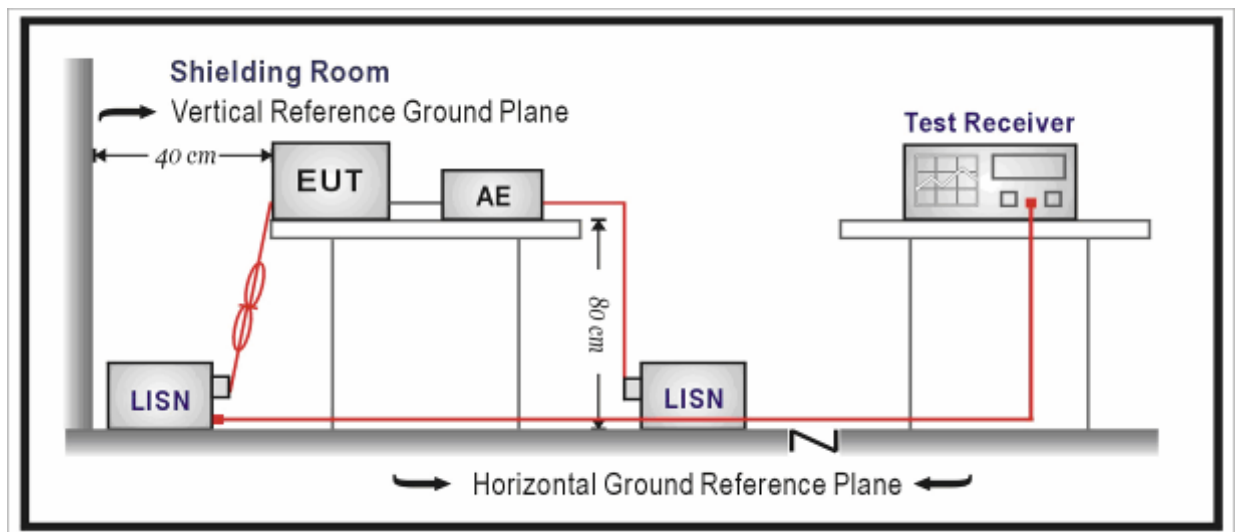
### 3. Conducted Emission

#### 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	100906	2016.03.05	2017.03.04
Two-Line V-Network	R&S	ENV 216	101189	2016.06.16	2017.07.15
Two-Line V-Network	R&S	ENV 216	101044	2016.09.16	2017.09.15
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	N/A	N/A
50ohm Termination	SHX	TF2	07081402	2016.09.16	2017.09.15
Temperature/Humidity Meter	Zhichen	ZC1-2	TR1-TH	2017.01.04	2018.01.03

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 $\mu$ V)	AV (dB $\mu$ V)
0.15 - 0.50	66 – 56	56 – 46
0.50 - 5.0	56	46
5.0 - 30	60	50

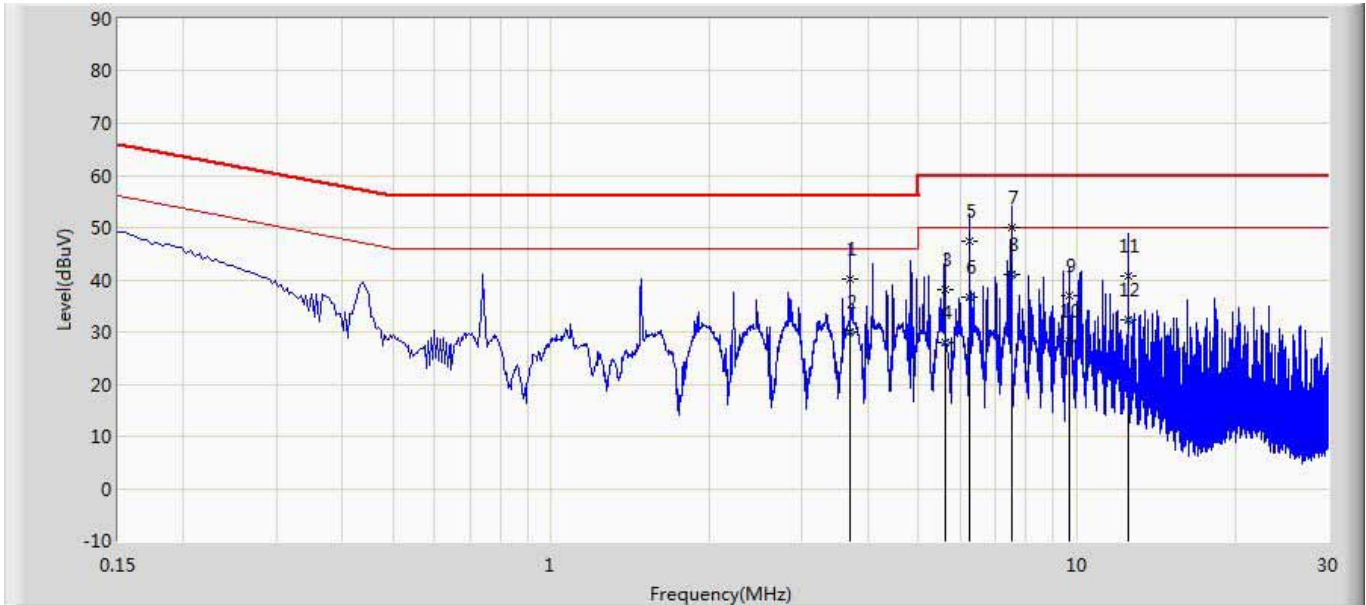
Note 1: The lower limit shall apply at the transition frequencies.  
 Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

### 3.4. Test Procedure

Test Method			
	References Rule	Chapter	Item
<input checked="" type="checkbox"/>	ANSI C63.10-2013	6.2	Standard test method for ac power-line conducted emissions from unlicensed wireless devices
<input checked="" type="checkbox"/>	ANSI C63.4-2014	7	AC power-line conducted emission measurements

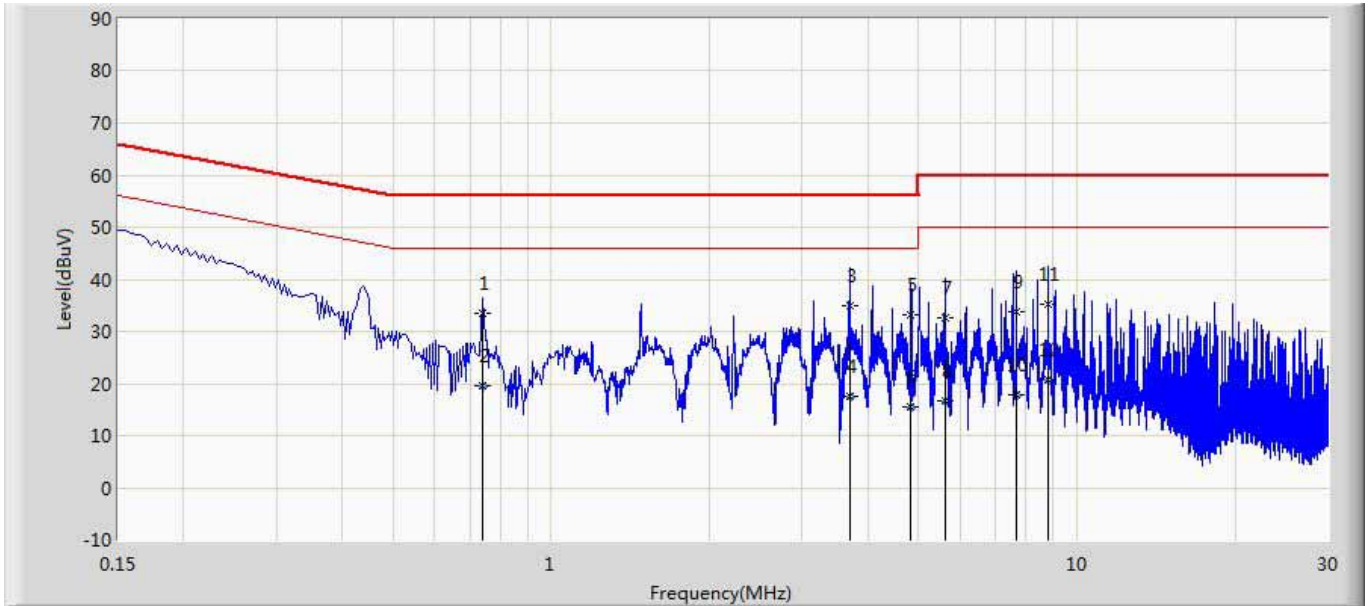
### 3.5. Test Result

Engineer: Amos	
Site: TR1	Time: 2016/11/28
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101044(0.009-30MHz)	Polarity: Line
EUT: AC1200 Wireless Dual Bang Gigabit Router	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		3.698	40.279	30.540	-15.721	56.000	9.616	0.123	0.000	QP
2		3.698	30.106	20.367	-15.894	46.000	9.616	0.123	0.000	AV
3		5.598	38.168	28.390	-21.832	60.000	9.626	0.152	0.000	QP
4		5.598	27.896	18.118	-22.104	50.000	9.626	0.152	0.000	AV
5		6.250	47.332	37.541	-12.668	60.000	9.632	0.159	0.000	QP
6		6.250	36.793	27.002	-13.207	50.000	9.632	0.159	0.000	AV
7		7.498	49.973	40.158	-10.027	60.000	9.640	0.175	0.000	QP
8	*	7.498	40.894	31.078	-9.106	50.000	9.640	0.175	0.000	AV
9		9.674	36.964	27.121	-23.036	60.000	9.640	0.203	0.000	QP
10		9.674	28.392	18.549	-21.608	50.000	9.640	0.203	0.000	AV
11		12.502	40.602	30.725	-19.398	60.000	9.645	0.232	0.000	QP
12		12.502	32.449	22.572	-17.551	50.000	9.645	0.232	0.000	AV

Engineer: Amos	
Site: TR1	Time: 2016/11/28
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101044(0.009-30MHz)	Polarity: Neutral
EUT: AC1200 Wireless Dual Bang Gigabit Router	Power: AC 120V/50Hz
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		0.742	33.510	23.855	-22.490	56.000	9.606	0.050	0.000	QP
2		0.742	19.479	9.823	-26.521	46.000	9.606	0.050	0.000	AV
3	*	3.694	35.052	25.327	-20.948	56.000	9.601	0.124	0.000	QP
4		3.694	17.503	7.778	-28.497	46.000	9.601	0.124	0.000	AV
5		4.838	33.258	23.507	-22.742	56.000	9.609	0.142	0.000	QP
6		4.838	15.598	5.847	-30.402	46.000	9.609	0.142	0.000	AV
7		5.598	32.626	22.858	-27.374	60.000	9.616	0.152	0.000	QP
8		5.598	16.789	7.021	-33.211	50.000	9.616	0.152	0.000	AV
9		7.662	33.893	24.081	-26.107	60.000	9.632	0.180	0.000	QP
10		7.662	17.925	8.113	-32.075	50.000	9.632	0.180	0.000	AV
11		8.806	35.215	25.385	-24.785	60.000	9.636	0.194	0.000	QP
12		8.806	20.814	10.984	-29.186	50.000	9.636	0.194	0.000	AV

## 4. Radiated Emission

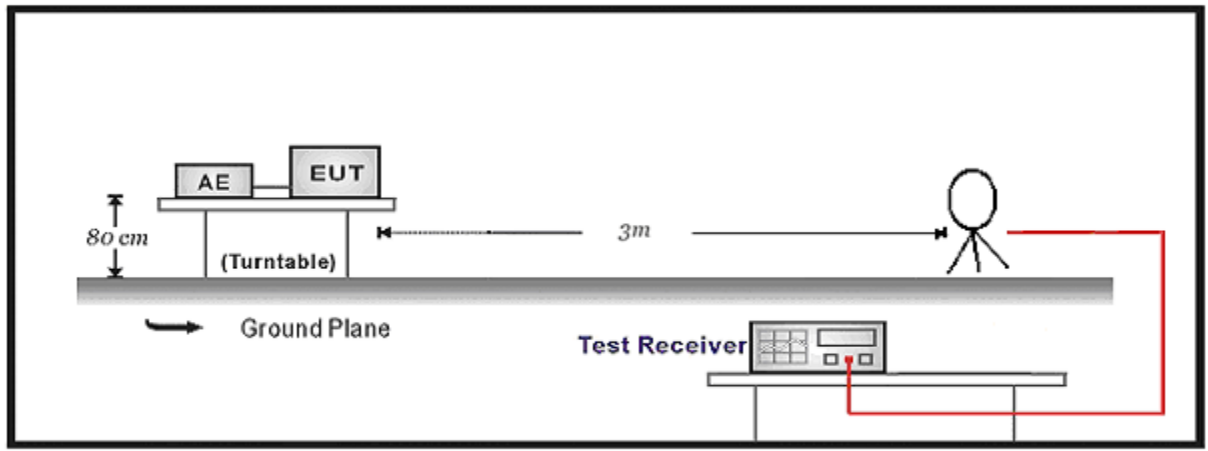
### 4.1. Test Equipment

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	2016.11.16	2017.11.15
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2016.10.16	2017.10.15
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2016.03.02	2017.03.01
Temperature/Humidity Meter	Zhichen	ZC1-2	AC2-TH	2017.01.03	2018.01.02

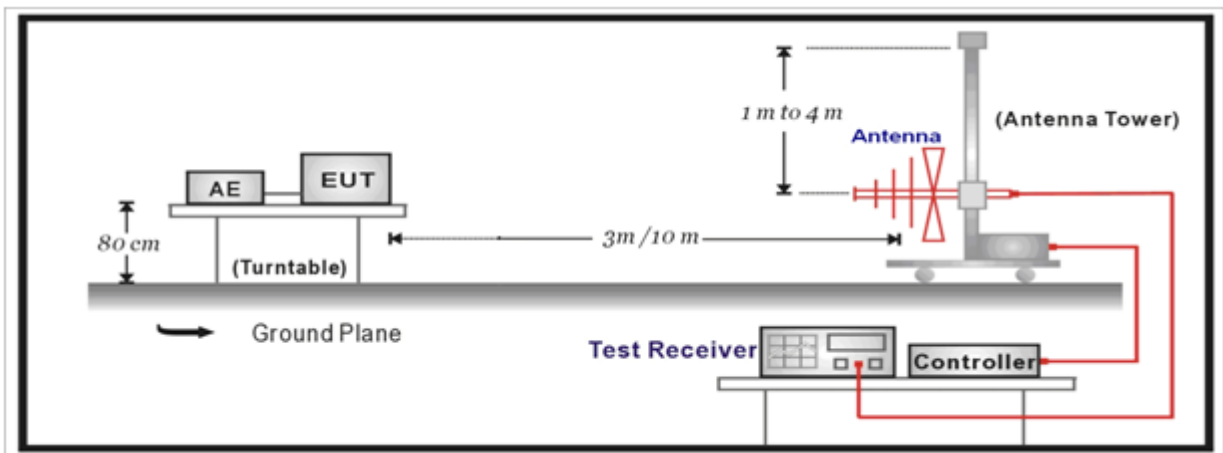
Radiated Emission / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Preamplifier	Miteq	NSP1800-25	1364185	2016.05.06	2017.05.05
Preamplifier	DEKRA Testing and Certification (Suzhou) Co., Ltd.	AP-040G	CHM-0906001	2016.05.06	2017.05.05
DRG Horn	ETS-Lindgren	3117	00123988	2016.01.22	2017.01.21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2016.11.25	2017.11.24
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	2017.01.03	2018.01.02
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

## 4.2. Test Setup

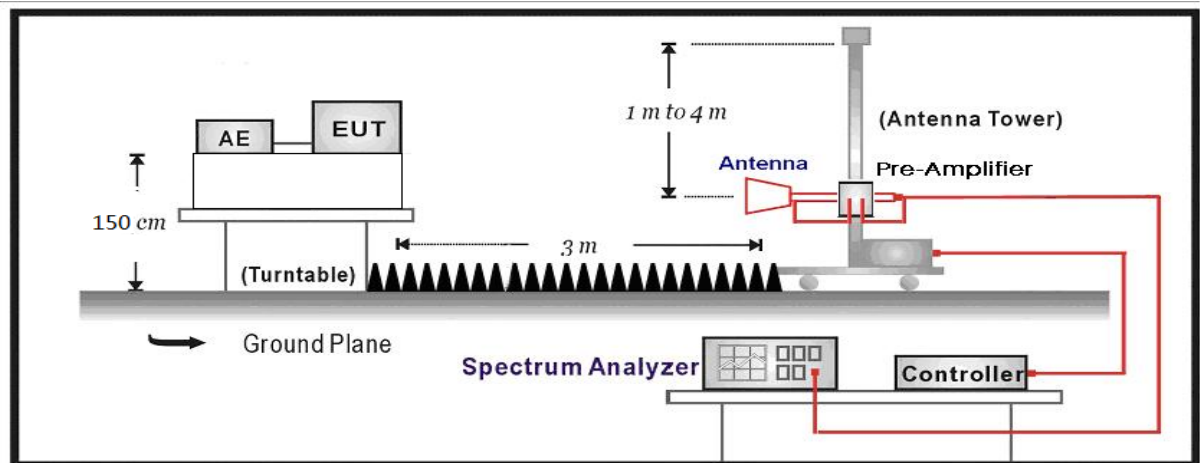
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



**4.3. Limit**

<b>FCC Part 15 Subpart C Paragraph 15.209 (Restricted Band Emissions Limit)</b>		
Frequency (MHz)	Distance (m)	Level (dB $\mu$ 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

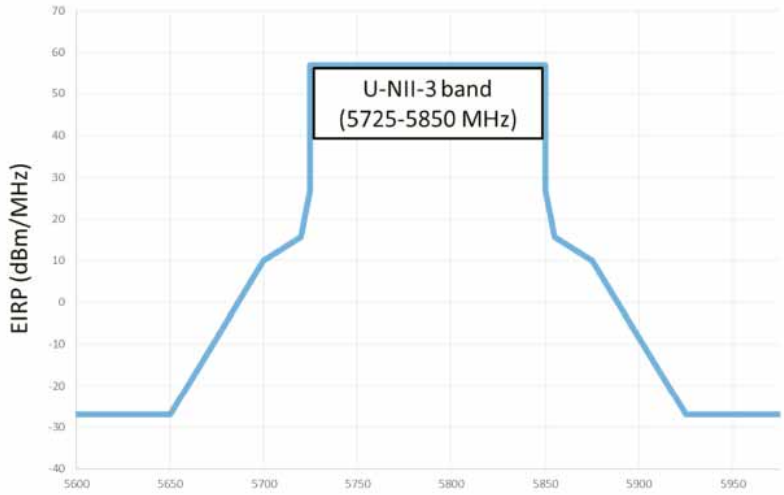
Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed 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).

<b>FCC Part 15 Subpart C Paragraph 15.205 (Restricted Band)</b>			
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 $\mu$ V/m)
5150 - 5250	-27	68.3
5250 - 5350	-27	68.3
5470 - 5725	-27	68.3

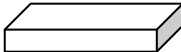
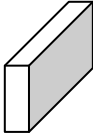
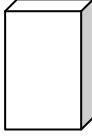
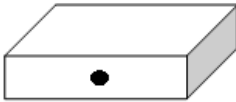
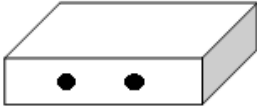

FCC 16-24-A1	
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)
5725 - 5825	 <p style="text-align: center;">U-NII-3 band (5725-5850 MHz)</p>



#### 4.4. Test Procedure

Test Method			
	References Rule	Chapter	Description
<input type="checkbox"/>	ANSI C63.10	12.7.3	Emissions in non-restricted frequency bands
<input checked="" type="checkbox"/>	ANSI C63.10	12.7.2	Emissions in restricted frequency bands
	<input checked="" type="checkbox"/>	ANSI C63.10	Radiated emission measurements
	<input checked="" type="checkbox"/>	ANSI C63.10	Procedure for peak unwanted emissions measurements above 1000 MHz
	<input checked="" type="checkbox"/>	ANSI C63.10	Procedures for average unwanted emissions measurements above 1000 MHz
	<input type="checkbox"/>	ANSI C63.10	12.7.7.2 Method AD (average detection)—primary method
	<input checked="" type="checkbox"/>	ANSI C63.10	12.7.7.3 Method VB-A (Alternative)
	<input checked="" type="checkbox"/>	ANSI C63.10	6.4 Radiated emissions from unlicensed wireless devices below 30 MHz
	<input checked="" type="checkbox"/>	ANSI C63.10	6.5 Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	<input checked="" type="checkbox"/>	ANSI C63.10	6.6 Radiated emissions from unlicensed wireless devices above 1 GHz
<input type="checkbox"/>	FCC KDB 789033 D02v01r03	G.2	Unwanted Emissions that fall Outside of the Restricted Bands
<input type="checkbox"/>	FCC KDB 789033 D02v01r03	G.1	Unwanted Emissions in the Restricted Bands
	<input type="checkbox"/>	FCC KDB 789033 D02v01r03	G.4 Procedure for Unwanted Emissions Measurements below 1000 MHz
	<input type="checkbox"/>	FCC KDB 789033 D02v01r03	G.5 Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz
	<input type="checkbox"/>	FCC KDB 789033 D02v01r03	G.6 Procedures for Average Unwanted Emissions Measurements above 1000 MHz
	<input type="checkbox"/>	FCC KDB 789033 D02v01r03	G.6.c Method AD (Average detection)—primary method
	<input type="checkbox"/>	FCC KDB 789033 D02v01r03	G.6.d Method VB (Averaging using reduced video bandwidth): Alternative method.

### 4.5. EUT test Axis definition

Item	Radiated Emission			
Device Category	<input type="checkbox"/>	Outdoor AP		
	<input checked="" type="checkbox"/>	Indoor AP		
	<input type="checkbox"/>	Fixed point-to-point AP		
	<input type="checkbox"/>	Outdoor fixed point-to-multipoint AP		
	<input type="checkbox"/>	Client		
Test mode	Mode 1-11			
Test method	<input checked="" type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input checked="" type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>
	<input type="checkbox"/>	Conducted		
	<input type="checkbox"/>	Chain 1		
				
	<input type="checkbox"/>	Chain 1	Chain 2	
				
	<input type="checkbox"/>	Chain 1	Chain 2	Chain 3
				

### 4.6. Test Result

Product Name	: AC1200 Wireless Dual Band Gigabit Router	Power	: 120V/60Hz
Model No.	: Archer C1200	Test Site	: AC-5
Test Mode	: Mode 1: Transmit by 802.11a	Test Date	: 2016.11.24

Chain	CH	Antenna Polarity	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measured Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
Ant 0+1	36	H	10360	27.5	17.0	44.5	54(Note3)	-9.5	PK
		H	15540	13.0	24.5	37.5	54(Note3)	-16.5	PK
		V	10360	28.1	16.7	44.8	54(Note3)	-9.2	PK
		V	15540	13.4	24.2	37.6	54(Note3)	-16.4	PK
	44	H	10440	26.9	17.5	44.4	54(Note3)	-9.6	PK
		H	15660	18.2	25.0	43.2	54(Note3)	-10.8	PK
		V	10440	31.2	17.7	48.9	54(Note3)	-5.1	PK
		V	15660	18.8	25.1	43.9	54(Note3)	-10.1	PK
	48	H	10480	27.1	17.1	44.2	54(Note3)	-9.8	PK
		H	15720	15.3	27.1	42.4	54(Note3)	-11.6	PK
		V	10480	31.3	17.3	48.6	54(Note3)	-5.4	PK
		V	15720	15.7	27.2	42.9	54(Note3)	-11.1	PK
	149	H	11490	31.5	21.6	53.1	54(Note3)	-0.9	PK
		H	17235	25.8	26.1	51.9	54(Note3)	-2.1	PK
		V	11490	30.7	21.4	52.1	54(Note3)	-1.9	PK
		V	17235	23.8	25.8	49.6	54(Note3)	-4.4	PK
	157	H	11565.5	30.4	22.7	53.1	54(Note3)	-0.9	PK
		H	17362.5	25.3	25.7	51	54(Note3)	-3.0	PK
		V	11565.5	30.8	22.3	53.1	54(Note3)	-0.9	PK
		V	17345.5	27.1	26.0	53.1	54(Note3)	-0.9	PK
165	H	11650.5	30.4	23.2	53.6	54(Note3)	-0.4	PK	
	H	17475	25.9	26.3	52.2	54(Note3)	-1.8	PK	
	V	11650.5	29.3	23.6	52.9	54(Note3)	-1.1	PK	
	V	17475	27.4	25.5	52.9	54(Note3)	-1.1	PK	

1. Measured Level = Reading Level + Factor.
2. The test frequency range, 9kHz~30MHz, 18GHz~40GHz, both of the worst case are at least 20dB 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.

Product Name	: AC1200 Wireless Dual Band Gigabit Router	Power	: 120V/60Hz
Model No.	: Archer C1200	Test Site	: AC-5
Test Mode	: Mode 2: Transmit by 802.11n(20MHz)	Test Date	: 2016.11.24

Chain	CH	Antenna Polarity	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measured Level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
Ant 0+1	36	H	10360	25.4	15.7	41.1	54(Note3)	-12.9	PK
		H	15540	12.2	23.4	35.6	54(Note3)	-18.4	PK
		V	10360	27.0	15.9	42.9	54(Note3)	-11.1	PK
		V	15540	12.3	23.9	36.2	54(Note3)	-17.8	PK
	44	H	10440	26.4	16.5	42.9	54(Note3)	-11.1	PK
		H	15660	17.0	23.8	40.8	54(Note3)	-13.2	PK
		V	10440	30.3	16.4	46.7	54(Note3)	-7.3	PK
		V	15660	17.7	24.3	42	54(Note3)	-12.0	PK
	48	H	10480	26.6	15.9	42.5	54(Note3)	-11.5	PK
		H	15720	15.5	26.0	41.5	54(Note3)	-12.5	PK
		V	10480	29.9	15.8	45.7	54(Note3)	-8.3	PK
		V	15720	14.8	26.1	40.9	54(Note3)	-13.1	PK
	149	H	11490	30.2	21.0	51.2	54(Note3)	-2.8	PK
		H	17235	25.3	25.4	50.7	54(Note3)	-3.3	PK
		V	11490	30.2	21.0	51.2	54(Note3)	-2.8	PK
		V	17235	22.6	24.7	47.3	54(Note3)	-6.7	PK
	157	H	11570	30.3	21.8	52.1	54(Note3)	-1.9	PK
		H	17355	24.5	24.7	49.2	54(Note3)	-4.8	PK
		V	11570	29.7	21.2	50.9	54(Note3)	-3.1	PK
		V	17355	26.0	24.7	50.7	54(Note3)	-3.3	PK
165	H	11650	29.4	22.7	52.1	54(Note3)	-1.9	PK	
	H	17475	24.1	24.3	48.4	54(Note3)	-5.6	PK	
	V	11650	28.7	22.0	50.7	54(Note3)	-3.3	PK	
	V	17475	26.8	24.4	51.2	54(Note3)	-2.8	PK	

1. Measured Level = Reading Level + Factor.

2. The test frequency range, 9kHz~30MHz, 18GHz~40GHz, both of the worst case are at least 20dB 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.

Product Name	: AC1200 Wireless Dual Band Gigabit Router	Power	: 120V/60Hz
Model No.	: Archer C1200	Test Site	: AC-5
Test Mode	: Mode 3: Transmit by 802.11n(40MHz)	Test Date	: 2016.11.24

Chain	CH	Antenna Polarity	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measured Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
Ant 0+1	38	H	10380	26.2	17.2	43.4	54(Note3)	-10.6	PK
		H	15570	11.7	26.3	38	54(Note3)	-16.0	PK
		V	10380	25.9	17.0	42.9	54(Note3)	-11.1	PK
		V	15570	13.0	26.7	39.7	54(Note3)	-14.3	PK
	46	H	10460	26.3	15.9	42.2	54(Note3)	-11.8	PK
		H	15690	15.3	23.3	38.6	54(Note3)	-15.4	PK
		V	10460	28.7	16.0	44.7	54(Note3)	-9.3	PK
		V	15690	15.8	23.2	39	54(Note3)	-15.0	PK
	151	H	11490	29.5	20.5	50	54(Note3)	-4.0	PK
		H	17235	25.7	24.8	50.5	54(Note3)	-3.5	PK
		V	11490	29.5	20.5	50	54(Note3)	-4.0	PK
		V	17235	27.2	25.1	52.3	54(Note3)	-1.7	PK
	159	H	11590	27.4	21.4	48.8	54(Note3)	-5.2	PK
		H	17385	25.7	25.2	50.9	54(Note3)	-3.1	PK
		V	11590	28.1	21.8	49.9	54(Note3)	-4.1	PK
		V	17385	25.1	24.4	49.5	54(Note3)	-4.5	PK

1. Measured Level = Reading Level + Factor.
2. The test frequency range, 9kHz~30MHz, 18GHz~40GHz, both of the worst case are at least 20dB 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.

Product Name	: AC1200 Wireless Dual Band Gigabit Router	Power	: 120V/60Hz
Model No.	: Archer C1200	Test Site	: AC-5
Test Mode	: Mode 4: Transmit by 802.11ac(20MHz)	Test Date	: 2016.11.24

Chain	CH	Antenna Polarity	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measured Level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
Ant 0+1	36	H	10360	26.4	16.4	42.8	54(Note3)	-11.2	PK
		H	15540	12.8	23.9	36.7	54(Note3)	-17.3	PK
		V	10360	26.7	16.2	42.9	54(Note3)	-11.1	PK
		V	15540	12.1	23.7	35.8	54(Note3)	-18.2	PK
	44	H	10440	26.1	16.8	42.9	54(Note3)	-11.1	PK
		H	15660	17.5	24.5	42	54(Note3)	-12	PK
		V	10440	30.0	16.4	46.4	54(Note3)	-7.6	PK
		V	15660	17.8	23.8	41.6	54(Note3)	-12.4	PK
	48	H	10480	26.2	15.7	41.9	54(Note3)	-12.1	PK
		H	15720	14.7	25.8	40.5	54(Note3)	-13.5	PK
		V	10480	29.9	15.6	45.5	54(Note3)	-8.5	PK
		V	15720	15.6	26.4	42	54(Note3)	-12	PK
	149	H	11490	30.2	21.2	51.4	54(Note3)	-2.6	PK
		H	17235	25.5	25.5	51	54(Note3)	-3	PK
		V	11490	28.6	20.5	49.1	54(Note3)	-4.9	PK
		V	17235	22.8	25.6	48.4	54(Note3)	-5.6	PK
	157	H	11570	28.8	22.0	50.8	54(Note3)	-3.2	PK
		H	17355	25.7	25.0	50.7	54(Note3)	-3.3	PK
		V	11570	29.2	21.8	51	54(Note3)	-3	PK
		V	17355	24.5	24.3	42.8	54(Note3)	-11.2	PK
165	H	11650	26.4	16.4	36.7	54(Note3)	-17.3	PK	
	H	17475	12.8	23.9	42.9	54(Note3)	-11.1	PK	
	V	11650	26.7	16.2	35.8	54(Note3)	-18.2	PK	
	V	17475	12.1	23.7	42.9	54(Note3)	-11.1	PK	

1. Measure Level = Reading Level + Factor.

2. The test frequency range, 9kHz~30MHz, 18GHz~40GHz, both of the worst case are at least 20dB 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.

Product Name	: AC1200 Wireless Dual Band Gigabit Router	Power	: 120V/60Hz
Model No.	: Archer C1200	Test Site	: AC-5
Test Mode	: Mode 5: Transmit by 802.11ac(40MHz)	Test Date	: 2016.11.24

Chain	CH	Antenna Polarity	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measured Level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
Ant 0+1	38	H	10380	26.0	16.8	42.8	54(Note3)	-11.2	PK
		H	15570	12.7	26.8	39.5	54(Note3)	-14.5	PK
		V	10380	27.1	16.9	44	54(Note3)	-10	PK
		V	15570	13.9	26.5	40.4	54(Note3)	-13.6	PK
	46	H	10460	26.6	16.3	42.9	54(Note3)	-11.1	PK
		H	15690	14.8	22.8	37.6	54(Note3)	-16.4	PK
		V	10460	30.4	16.4	46.8	54(Note3)	-7.2	PK
		V	15690	14.9	22.8	37.7	54(Note3)	-16.3	PK
	151	H	11510	29.2	21.3	50.5	54(Note3)	-3.5	PK
		H	17265	25.2	25.0	50.2	54(Note3)	-3.8	PK
		V	11510	28.5	20.7	49.2	54(Note3)	-4.8	PK
		V	17265	25.7	25.6	51.3	54(Note3)	-2.7	PK
	159	H	11590	27.4	22.0	49.4	54(Note3)	-4.6	PK
		H	17385	24.4	24.9	49.3	54(Note3)	-4.7	PK
		V	11590	27.2	21.5	48.7	54(Note3)	-5.3	PK
		V	17385	25.3	25.0	50.3	54(Note3)	-3.7	PK

1. Measured Level = Reading Level + Factor.
2. The test frequency range, 9kHz~30MHz, 18GHz~40GHz, both of the worst case are at least 20dB 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.



Product Name	: AC1200 Wireless Dual Band Gigabit Router	Power	: 120V/60Hz
Model No.	: Archer C1200	Test Site	: AC-5
Test Mode	: Mode 6: Transmit by 802.11ac(80MHz)	Test Date	: 2016.11.24

Chain	CH	Antenna Polarity	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measured Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Over Limit (dB)	Detector
Ant 0+1	42	H	10420	28.5	16.2	44.7	54(Note3)	-9.3	PK
		H	15630	17.3	23.7	41	54(Note3)	-13	PK
		V	10420	25.7	16.4	42.1	54(Note3)	-11.9	PK
		V	15630	15.5	23.9	39.4	54(Note3)	-14.6	PK
	155	H	11550	28.3	21.7	50	54(Note3)	-4	PK
		H	17325	24.1	24.7	48.8	54(Note3)	-5.2	PK
		V	11550	27.8	21.4	49.2	54(Note3)	-4.8	PK
		V	17325	24.1	25.0	49.1	54(Note3)	-4.9	PK

1. Measured Level = Reading Level + Factor.

2. The test frequency range, 9kHz~30MHz, 18GHz~40GHz, both of the worst case are at least 20dB 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.

Product Name	: Wireless AC1200 Wireless Dual Band Gigabit Router	Power	: 120V/60Hz
Module No.	: Archer C1200	Test Site	: AC-5
Test Mode	: Mode 7: Transmit by 802.11n(20MHz) with Beamforming	Test Date	: 2017.02.09

Chain	CH	Antenna Polarity	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measured Level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
Ant 0+1	36	H	10360	28.0	16.9	44.9	54(Note3)	-9.1	PK
		H	15540	13.6	24.8	38.4	54(Note3)	-15.6	PK
		V	10360	28.9	16.1	45.0	54(Note3)	-9.0	PK
		V	15540	14.2	24.3	38.5	54(Note3)	-15.5	PK
	44	H	10440	27.0	17.6	44.6	54(Note3)	-9.4	PK
		H	15660	19.0	24.9	43.9	54(Note3)	-10.1	PK
		V	10440	31.4	18.5	49.9	54(Note3)	-4.1	PK
		V	15660	19.3	24.7	44.0	54(Note3)	-10.0	PK
	48	H	10480	27.4	16.8	44.2	54(Note3)	-9.8	PK
		H	15720	16.0	26.9	42.9	54(Note3)	-11.1	PK
		V	10480	32.2	17.8	50.0	54(Note3)	-4.0	PK
		V	15720	16.3	26.7	43.0	54(Note3)	-11.0	PK
	149	H	11490	31.5	21.3	52.8	54(Note3)	-1.2	PK
		H	17235	26.2	26.4	52.5	54(Note3)	-1.5	PK
		V	11490	30.6	21.6	51.3	54(Note3)	-1.7	PK
		V	17235	23.8	25.8	49.6	54(Note3)	-4.4	PK
	157	H	11570	30.6	21.9	51.4	54(Note3)	-1.6	PK
		H	17355	26.0	25.9	52.0	54(Note3)	-2.0	PK
		V	11570	31.5	21.3	51.8	54(Note3)	-1.2	PK
		V	17355	27.9	25.5	53.3	54(Note3)	-0.7	PK
165	H	11650	30.6	23.1	53.6	54(Note3)	-0.4	PK	
	H	17475	26.5	26.6	53.2	54(Note3)	-0.8	PK	
	V	11650	30.0	23.5	53.5	54(Note3)	-0.5	PK	
	V	17475	27.7	25.1	52.8	54(Note3)	-1.2	PK	

1. Measured Level = Reading Level + Factor.
2. The test frequency range, 9kHz~30MHz, 18GHz~40GHz, both of the worst case are at least 26dB 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.

Product Name	: Wireless AC1200 Wireless Dual Band Gigabit Router	Power	: 120V/60Hz
Module No.	: Archer C1200	Test Site	: AC-5
Test Mode	: Mode 8: Transmit by 802.11n(40MHz) with Beamforming	Test Date	: 2017.02.09

Chain	CH	Antenna Polarity	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measured Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
Ant 0+1	38	H	10380	25.6	16.6	42.1	54(Note3)	-11.9	PK
		H	15570	11.6	25.9	37.5	54(Note3)	-16.5	PK
		V	10380	25.7	16.8	42.5	54(Note3)	-11.5	PK
		V	15570	13.0	26.1	39.1	54(Note3)	-14.9	PK
	46	H	10460	25.9	15.5	41.4	54(Note3)	-12.6	PK
		H	15690	14.6	22.7	37.4	54(Note3)	-16.6	PK
		V	10460	28.6	15.6	44.1	54(Note3)	-9.9	PK
		V	15690	15.2	22.5	37.7	54(Note3)	-16.3	PK
	151	H	11490	29.0	20.5	49.5	54(Note3)	-4.5	PK
		H	17235	25.1	24.4	49.5	54(Note3)	-4.5	PK
		V	11490	28.7	20.0	48.7	54(Note3)	-5.3	PK
		V	17235	26.3	24.6	50.9	54(Note3)	-3.1	PK
	159	H	11590	26.9	20.5	47.4	54(Note3)	-6.6	PK
		H	17385	25.4	24.8	50.1	54(Note3)	-3.9	PK
		V	11590	27.9	21.0	48.9	54(Note3)	-5.1	PK
		V	17385	24.4	23.8	48.2	54(Note3)	-5.8	PK

1. Measured Level = Reading Level + Factor.
2. The test frequency range, 9kHz~30MHz, 18GHz~40GHz, both of the worst case are at least 26dB 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.

Product Name	: Wireless AC1200 Wireless Dual Band Gigabit Router	Power	: 120V/60Hz
Module No.	: Archer C1200	Test Site	: AC-5
Test Mode	: Mode 9: Transmit by 802.11ac20(MHz) with Beamforming	Test Date	: 2017.02.09

Chain	CH	Antenna Polarity	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measured Level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
Ant 0+1	36	H	10360	27.8	16.9	44.8	54(Note3)	-9.2	PK
		H	15540	13.5	24.8	38.3	54(Note3)	-15.7	PK
		V	10360	28.1	16.1	44.2	54(Note3)	-9.8	PK
		V	15540	13.3	24.3	37.6	54(Note3)	-16.4	PK
	44	H	10440	27.0	17.6	44.6	54(Note3)	-9.4	PK
		H	15660	18.5	24.9	43.4	54(Note3)	-10.6	PK
		V	10440	31.3	18.5	49.8	54(Note3)	-4.2	PK
		V	15660	18.7	24.7	43.5	54(Note3)	-10.5	PK
	48	H	10480	26.6	16.8	43.4	54(Note3)	-10.6	PK
		H	15720	15.8	26.9	42.7	54(Note3)	-11.3	PK
		V	10480	31.8	17.8	49.6	54(Note3)	-4.4	PK
		V	15720	15.4	26.7	42.1	54(Note3)	-11.9	PK
	149	H	11490	31.2	21.3	52.6	54(Note3)	-1.4	PK
		H	17235	26.2	26.4	52.6	54(Note3)	-1.4	PK
		V	11490	29.6	21.6	51.2	54(Note3)	-2.8	PK
		V	17235	23.2	25.8	49.0	54(Note3)	-5.0	PK
	157	H	11570	30.5	21.9	53.3	54(Note3)	-0.7	PK
		H	17355	25.1	25.9	51.0	54(Note3)	-3.0	PK
		V	11570	30.6	21.3	52.8	54(Note3)	-1.2	PK
		V	17355	26.9	25.5	52.4	54(Note3)	-1.6	PK
	165	H	11650	30.0	23.1	53.1	54(Note3)	-0.9	PK
		H	17475	26.3	26.6	53.0	54(Note3)	-1.0	PK
		V	11650	29.2	23.5	52.8	54(Note3)	-1.2	PK
		V	17475	27.4	25.1	52.5	54(Note3)	-1.5	PK

1. Measured Level = Reading Level + Factor.
2. The test frequency range, 9kHz~30MHz, 18GHz~40GHz, both of the worst case are at least 26dB 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.



Product Name	: Wireless AC1200 Wireless Dual Band Gigabit Router	Power	: 120V/60Hz
Module No.	: Archer C1200	Test Site	: AC-5
Test Mode	: Mode 10: Transmit by 802.11ac(40MHz) with Beamforming	Test Date	: 2017.02.09

Chain	CH	Antenna Polarity	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measured Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
Ant 0+1	38	H	10380	25.9	16.6	42.5	54(Note3)	-11.5	PK
		H	15570	12.3	25.9	38.2	54(Note3)	-15.8	PK
		V	10380	26.8	16.8	43.5	54(Note3)	-10.5	PK
		V	15570	13.7	26.1	39.8	54(Note3)	-14.2	PK
	46	H	10460	26.3	15.5	41.8	54(Note3)	-12.2	PK
		H	15690	14.2	22.7	36.9	54(Note3)	-17.1	PK
		V	10460	30.1	15.6	45.7	54(Note3)	-8.3	PK
		V	15690	14.1	22.5	36.7	54(Note3)	-17.3	PK
	151	H	11510	28.9	20.5	49.4	54(Note3)	-4.6	PK
		H	17265	24.2	24.4	48.6	54(Note3)	-5.4	PK
		V	11510	27.5	20.0	47.5	54(Note3)	-6.5	PK
		V	17265	25.5	24.6	50.1	54(Note3)	-3.9	PK
	159	H	11590	26.6	20.5	47.1	54(Note3)	-6.9	PK
		H	17385	24.2	24.8	49.0	54(Note3)	-5.0	PK
		V	11590	27.2	21.0	48.1	54(Note3)	-5.9	PK
		V	17385	24.7	23.8	48.6	54(Note3)	-5.4	PK

1. Measured Level = Reading Level + Factor.
2. The test frequency range, 9kHz~30MHz, 18GHz~40GHz, both of the worst case are at least 26dB 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.

Product Name	: Wireless AC1200 Wireless Dual Band Gigabit Router	Power	: 120V/60Hz
Module No.	: Archer C1200	Test Site	: AC-5
Test Mode	: Mode 11: Transmit by 802.11ac(80MHz) with Beamforming	Test Date	: 2017.02.09

Chain	CH	Antenna Polarity	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measured Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Over Limit (dB)	Detector
Ant 0+1	42	H	10420	28.1	16.5	44.6	54(Note3)	-9.4	PK
		H	15630	16.8	24.9	41.7	54(Note3)	-12.3	PK
		V	10420	25.7	16.2	41.9	54(Note3)	-12.1	PK
		V	15630	15.1	25.4	40.5	54(Note3)	-13.5	PK
	155	H	11550	27.9	14.6	42.5	54(Note3)	-11.5	PK
		H	17325	23.4	22.1	45.5	54(Note3)	-8.5	PK
		V	11550	27.4	15.1	42.6	54(Note3)	-11.4	PK
		V	17325	23.9	22.3	46.2	54(Note3)	-7.8	PK

1. Measured Level = Reading Level + Factor.

2. The test frequency range, 9kHz~30MHz, 18GHz~40GHz, both of the worst case are at least 26dB 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.



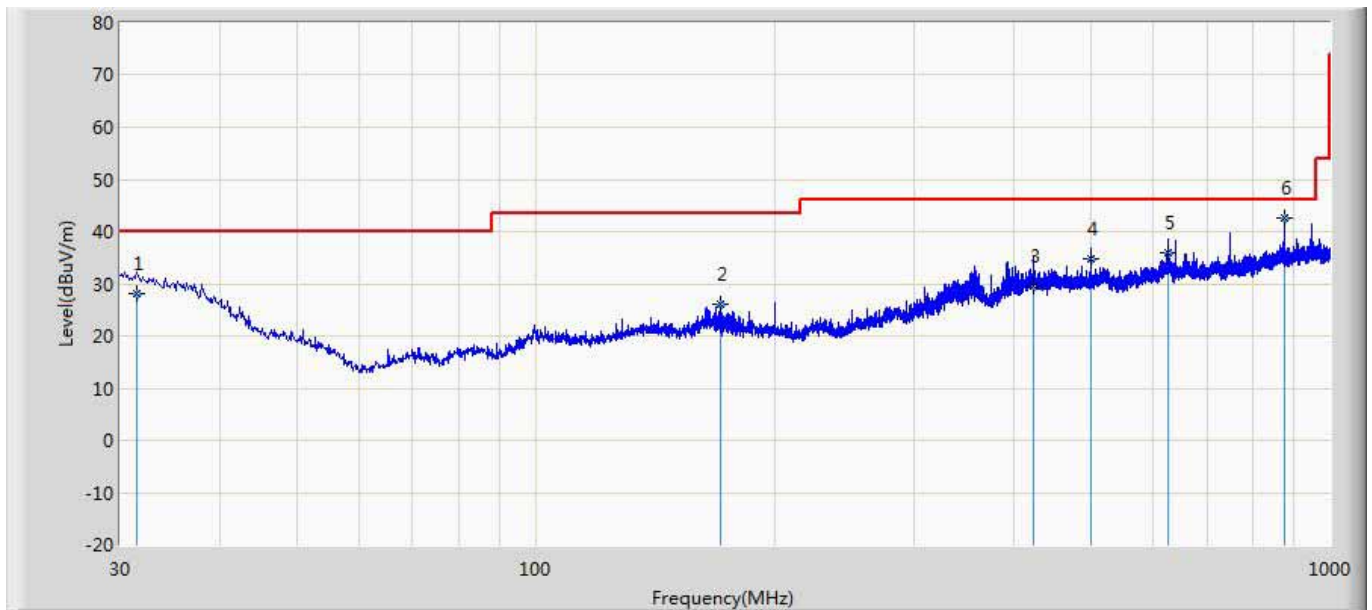
Product Name	: Wireless AC1200 Wireless Dual Band Gigabit Router	Power	: 120V/60Hz
Module No.	: Archer C1200	Test Site	: AC-5
Test Mode	: 2.4GHz & 5GHz Co-location	Test Date	: 2017.02.09

Chain	Mode	CH	Antenna Polarity	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measured Level (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
Ant 0+1	802.11b	6	H	4876.0	58.2	-7.5	50.7	54(note3)	-3.3	PK
			H	7315.5	50.1	-4.3	45.8	54(note3)	-8.2	PK
			V	4874.0	60.4	-7.5	52.9	54	-1.1	AV
			V	4876.0	64.3	-7.5	56.8	74	-17.2	PK
			V	7307.0	52.3	-4.4	47.9	54(Note3)	-6.1	PK
	802.11a	165	H	11650.5	30.3	23.2	53.5	54(Note3)	-0.5	PK
			H	17475	26.1	26.3	52.4	54(Note3)	-1.6	PK
			V	11650.5	29.7	23.6	53.3	54(Note3)	-0.7	PK
			V	17475	28.1	25.5	53.6	54(Note3)	-0.4	PK

1. Measured Level = Reading Level + Factor.
2. The test frequency range, 9kHz~30MHz, 18GHz~40GHz, both of the worst case are at least 26dB 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.

**The worst case of Radiated Emission below 1GHz:**

Site:AC2	Time: 2016/10/23
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: AC2_10M(30-1000M)	Polarity: Horizontal
EUT: AC 1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 1	

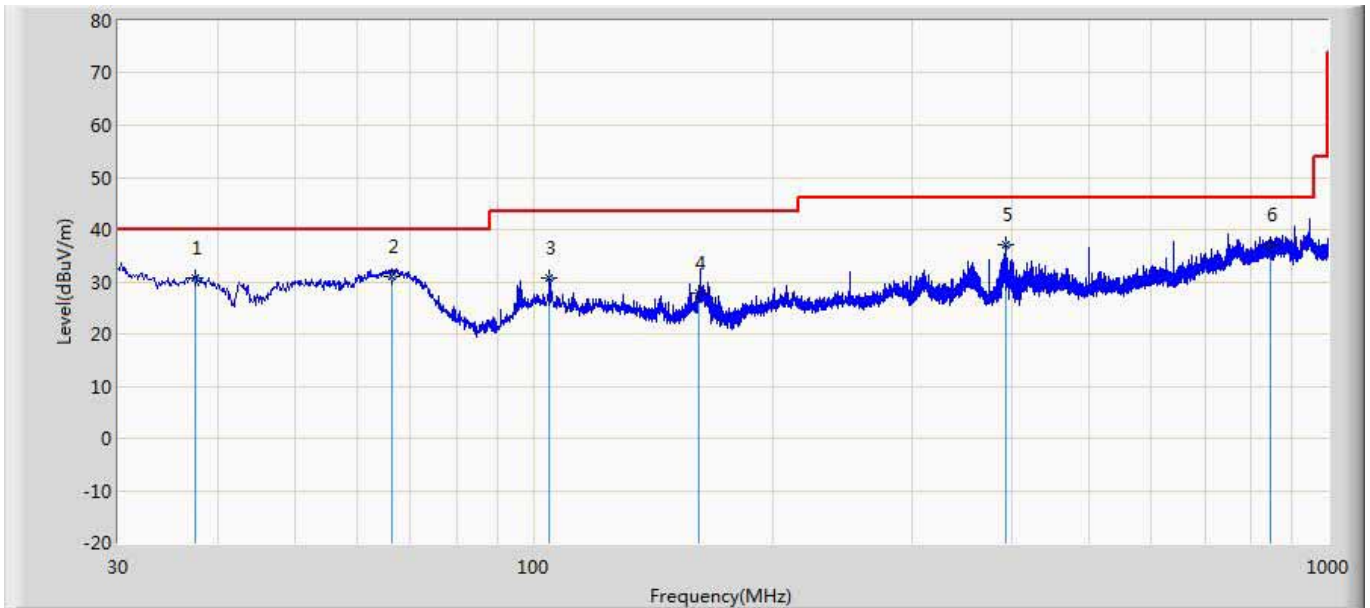


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		31.422	28.078	32.598	-11.922	40.000	17.975	0.615	23.109	200	241	QP
2		170.699	26.089	38.160	-17.411	43.500	9.579	1.420	23.070	200	93	QP
3		423.422	29.457	33.643	-16.543	46.000	16.468	2.260	22.914	100	82	QP
4		500.014	34.785	37.323	-11.215	46.000	17.802	2.420	22.760	200	5	QP
5		625.041	36.074	36.870	-9.926	46.000	19.000	2.740	22.536	153	360	QP
6	*	874.962	42.553	41.503	-3.447	46.000	20.450	3.260	22.660	100	98	QP

**Note:**

- " \* ", means this data is the worst emission level.
- Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Site: AC2	Time: 2016/10/23
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: AC2_10M(30-1000M)	Polarity: Vertical
EUT: AC 1200 Wireless Dual Band Gigabit Router	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		37.539	30.623	38.743	-9.377	40.000	14.427	0.668	23.215	100	307	QP
2		66.343	31.113	46.925	-8.887	40.000	6.373	0.875	23.060	163	360	QP
3		104.734	30.645	41.121	-12.855	43.500	11.573	1.110	23.160	100	125	QP
4		161.730	27.735	39.549	-15.765	43.500	9.848	1.378	23.040	101	360	QP
5	*	393.271	37.178	42.183	-8.822	46.000	15.825	2.190	23.020	100	28	QP
6		845.834	37.005	35.939	-8.995	46.000	20.367	3.200	22.501	200	139	QP

**Note:**

1. " \* ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

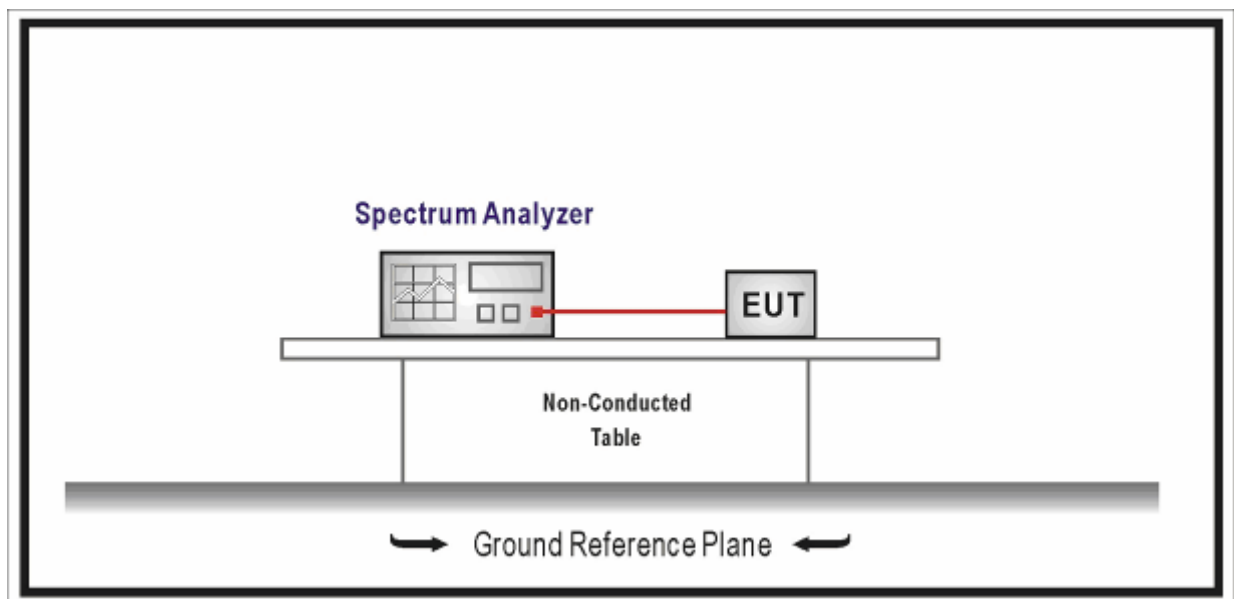
## 5. Emission bandwidth and occupied bandwidth

### 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	2017.02.04	2018.01.15
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2016.04.09	2017.04.09
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2016.04.09	2017.04.09
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2016.04.10	2017.04.10

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 5.2. Test Setup



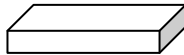
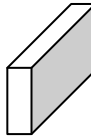

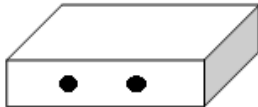

### 5.3. Limit

N/A

#### 5.4. Test Procedure

Test Method			
	References Rule	Chapter	Description
<input type="checkbox"/>	ANSI C63.10	12.4	Emission bandwidth and occupied bandwidth
	<input type="checkbox"/> ANSI C63.10	12.4.1	Emission bandwidth (26dB)
	<input type="checkbox"/> ANSI C63.10	12.4.2	Occupied bandwidth (99%)
<input checked="" type="checkbox"/>	FCC KDB 789033 D02v01r03	C	Bandwidth Measurement
	<input checked="" type="checkbox"/> FCC KDB 789033 D02v01r03	C.1	Emission Bandwidth (26dB)
	<input type="checkbox"/> FCC KDB 789033 D02v01r03	C.2	Minimum Emission Bandwidth for the band 5.725-5.85 GHz (6dB)
<input checked="" type="checkbox"/>	FCC KDB 789033 D02v01r03	D	99 Percent Occupied Bandwidth

**5.5. EUT test Axis definition**

Item	Occupied bandwidth			
Device Category	<input type="checkbox"/> Outdoor AP			
	<input checked="" type="checkbox"/> Indoor AP			
	<input type="checkbox"/> Fixed point-to-point AP			
	<input type="checkbox"/> Outdoor fixed point-to-multipoint AP			
	<input type="checkbox"/> Client			
Test mode	Mode 1-11			
Test method	<input type="checkbox"/> Radiated			
		X Axis	Y Axis	
				Z Axis
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>
	<input checked="" type="checkbox"/> Conducted			
	<input type="checkbox"/>	Chain 1		
				
	<input checked="" type="checkbox"/>	Chain 1	Chain 2	
				
	<input type="checkbox"/>	Chain 1	Chain 2	Chain 3
				

## 5.6. Test Result

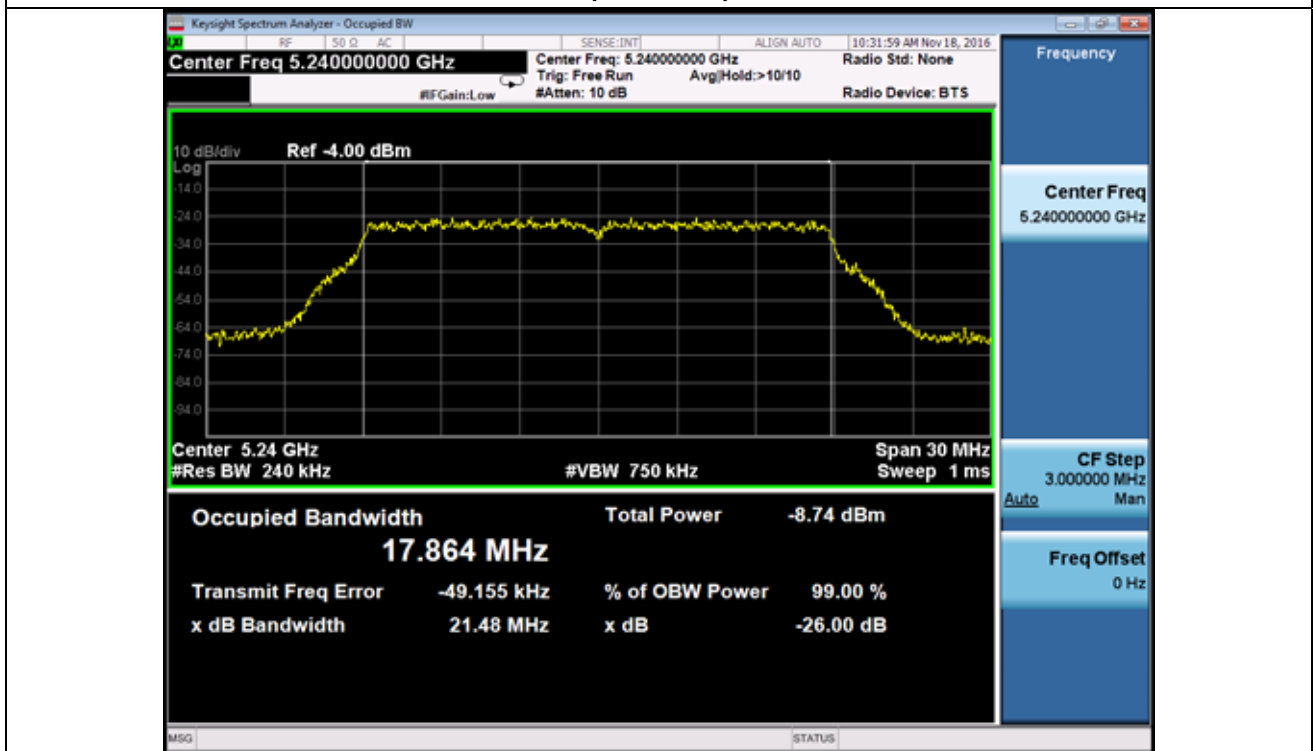
Product Name	: AC1200 Wireless Dual Band Gigabit Router	Power	: 120V/60Hz
Model No.	: Archer C1200	Test Site	: TR8
Test Mode	: Mode 1~11	Test Date	: 2017.01.03

Mode 1: Transmit by 802.11a								
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	21.44	21.31	16.754	16.678	5188.377	5188.339	Pass
44	5220	21.27	21.46	16.705	16.720	N/A	N/A	Pass
48	5240	21.35	20.78	16.723	16.650	5248.362	5248.325	Pass
Mode 2: Transmit by 802.11n(20MHz)								
36	5180	21.45	21.55	17.872	17.841	5188.936	5188.921	Pass
44	5220	21.39	21.27	17.845	17.849	N/A	N/A	Pass
48	5240	21.48	21.23	17.864	17.833	5248.932	5248.917	Pass
Mode 3: Transmit by 802.11n(40MHz)								
38	5190	39.19	39.10	36.221	36.282	5208.111	5208.141	Pass
46	5230	39.04	39.21	36.344	36.222	5248.172	5248.111	Pass
Mode 4: Transmit by 802.11ac(20MHz)								
36	5180	21.30	21.51	17.829	17.829	5188.915	5188.915	Pass
44	5220	21.10	21.46	17.815	17.809	N/A	N/A	Pass
48	5240	21.24	21.25	17.829	17.847	5248.915	5248.924	Pass
Mode 5: Transmit by 802.11ac(40MHz)								
38	5190	39.12	39.17	36.325	36.325	5208.163	5208.163	Pass
46	5230	39.21	39.21	36.209	36.294	5248.105	5248.147	Pass
Mode 6: Transmit by 802.11ac(80MHz)								
42	5210	80.33	79.66	75.693	75.572	5247.847	5247.786	Pass
Mode 7: Transmit by 802.11n(20MHz) with Beamforming								
36	5180	20.93	21.06	17.703	17.745	5188.852	5188.873	Pass
44	5220	21.55	21.46	17.808	17.824	N/A	N/A	Pass
48	5240	21.52	21.30	17.826	17.799	5248.913	5248.9	Pass

Mode 8: Transmit by 802.11n(40MHz) with Beamforming								
38	5190	39.66	39.23	36.309	36.358	5208.155	5208.179	Pass
46	5230	39.32	39.68	36.254	36.189	5248.127	5248.095	Pass
Mode 9: Transmit by 802.11ac(20MHz) with Beamforming								
36	5180	21.32	21.28	17.832	17.848	5188.916	5188.924	Pass
44	5220	21.32	21.34	17.784	17.846	N/A	N/A	Pass
48	5240	21.21	21.25	17.836	17.832	5248.918	5248.916	Pass
Mode 10: Transmit by 802.11ac(40MHz) with Beamforming								
38	5190	39.42	39.35	36.317	36.308	5208.159	5208.154	Pass
46	5230	39.34	39.30	36.115	36.255	5248.058	5248.128	Pass
Mode 11: Transmit by 802.11ac(80MHz) with Beamforming								
42	5210	114.4	119.6	76.065	76.033	5248.017	5248.017	Pass

The worst case of Occupied Bandwidth as below:

**CH48 (5240MHz) Ant 0**





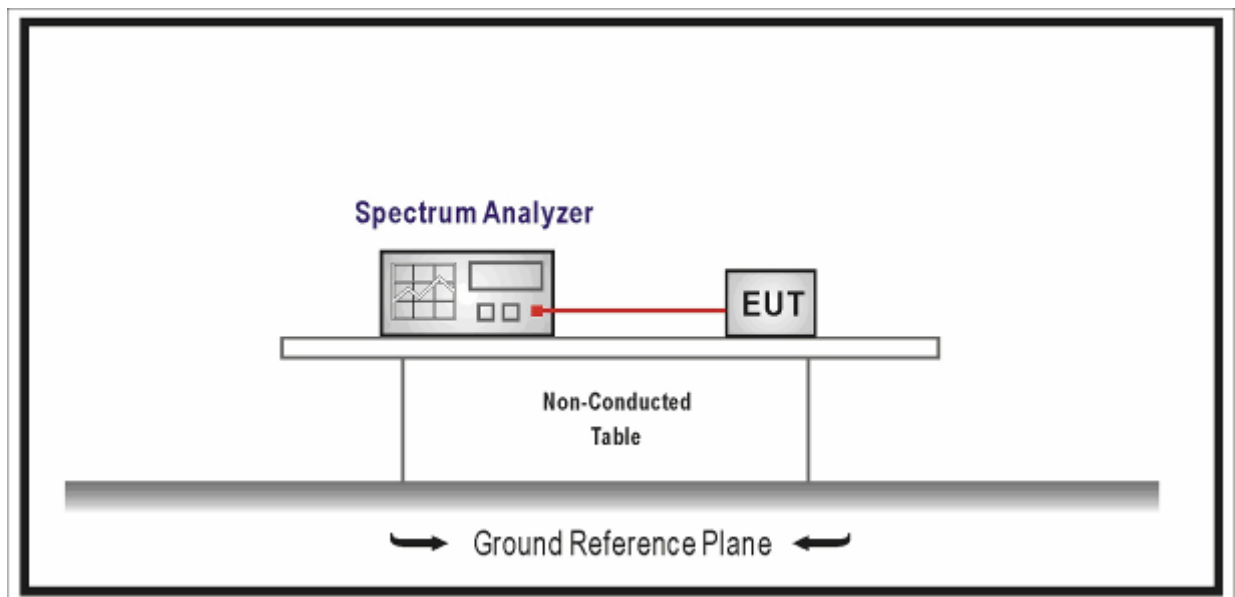
## 6. 6dB bandwidth

### 6.1. Test Equipment

6dB bandwidth / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.02.04	2018.01.15
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2016.04.09	2017.04.08
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2016.04.09	2017.04.08
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



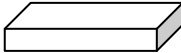
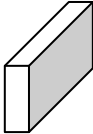
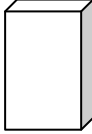


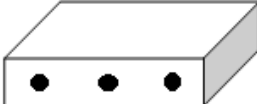
### 6.3. Limit

>500kHz

## 6.4. Test Procedure

Test Method			
	References Rule	Chapter	Description
<input type="checkbox"/>	ANSI C63.10	12.4	Emission bandwidth and occupied bandwidth
	<input type="checkbox"/> ANSI C63.10	12.4.1	Emission bandwidth (26dB)
	<input type="checkbox"/> ANSI C63.10	12.4.2	Occupied bandwidth (99%)
<input checked="" type="checkbox"/>	FCC KDB 789033 D02v01r03	C	Bandwidth Measurement
	<input type="checkbox"/> FCC KDB 789033 D02v01r03	C.1	Emission Bandwidth (26dB)
	<input checked="" type="checkbox"/> FCC KDB 789033 D02v01r03	C.2	Minimum Emission Bandwidth for the band 5.725-5.85 GHz (6dB)
<input type="checkbox"/>	FCC KDB 789033 D02v01r03	D	99 Percent Occupied Bandwidth

**6.5. EUT test Axis definition**

Item	6dB bandwidth			
Device Category	<input type="checkbox"/>	Outdoor AP		
	<input checked="" type="checkbox"/>	Indoor AP		
	<input type="checkbox"/>	Fixed point-to-point AP		
	<input type="checkbox"/>	Outdoor fixed point-to-multipoint AP		
	<input type="checkbox"/>	Client		
Test mode	Mode 1-11			
Test method	<input type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>
	<input checked="" type="checkbox"/>	Conducted		
	<input type="checkbox"/>	Chain 1		
				
	<input checked="" type="checkbox"/>	Chain 1	Chain 2	
				
	<input type="checkbox"/>	Chain 1	Chain 2	Chain 3
				

## 6.6. Test Result

Product Name	: AC1200 Wireless Dual Band Gigabit Router	Power	: 120V/60Hz
Model No.	: Archer C1200	Test Site	: TR8
Test Mode	: Mode 1~11	Test Date	: 2016.12.12

Mode 1: Transmit by 802.11a					
Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)		Limit (kHz)	Result
		Ant0	Ant1		
149	5745	16.74	16.88	>500	Pass
157	5785	16.83	16.94		Pass
165	5825	16.64	16.89		Pass
Mode 2: Transmit by 802.11n(20MHz)					
149	5745	18.02	17.81	>500	Pass
157	5785	17.96	17.99		Pass
165	5825	17.91	17.80		Pass
Mode 3: Transmit by 802.11n(40MHz)					
151	5755	36.52	36.32	>500	Pass
159	5795	36.45	36.60		Pass
Mode 4: Transmit by 802.11ac(20MHz)					
149	5745	17.57	18.17	>500	Pass
157	5785	17.88	17.78		Pass
165	5825	17.62	17.90		Pass
Mode 5: Transmit by 802.11ac(40MHz)					
151	5755	36.27	36.43	>500	Pass
159	5795	36.54	36.44		Pass
Mode 6: Transmit by 802.11ac(80MHz)					
155	5775	74.99	76.67	>500	Pass
Mode 7: Transmit by 802.11n(20MHz) with Beamforming					
149	5745	17.95	17.89	>500	Pass
157	5785	18.04	18.02		Pass
165	5825	18.20	17.86		Pass

**Mode 8: Transmit by 802.11n(40MHz) with Beamforming**

151	5755	36.49	36.50	>500	Pass
159	5795	35.49	31.65		Pass

**Mode 9: Transmit by 802.11ac(20MHz) with Beamforming**

149	5745	18.07	17.94	>500	Pass
157	5785	17.91	18.28		Pass
165	5825	18.01	17.84		Pass

**Mode 10: Transmit by 802.11ac(40MHz) with Beamforming**

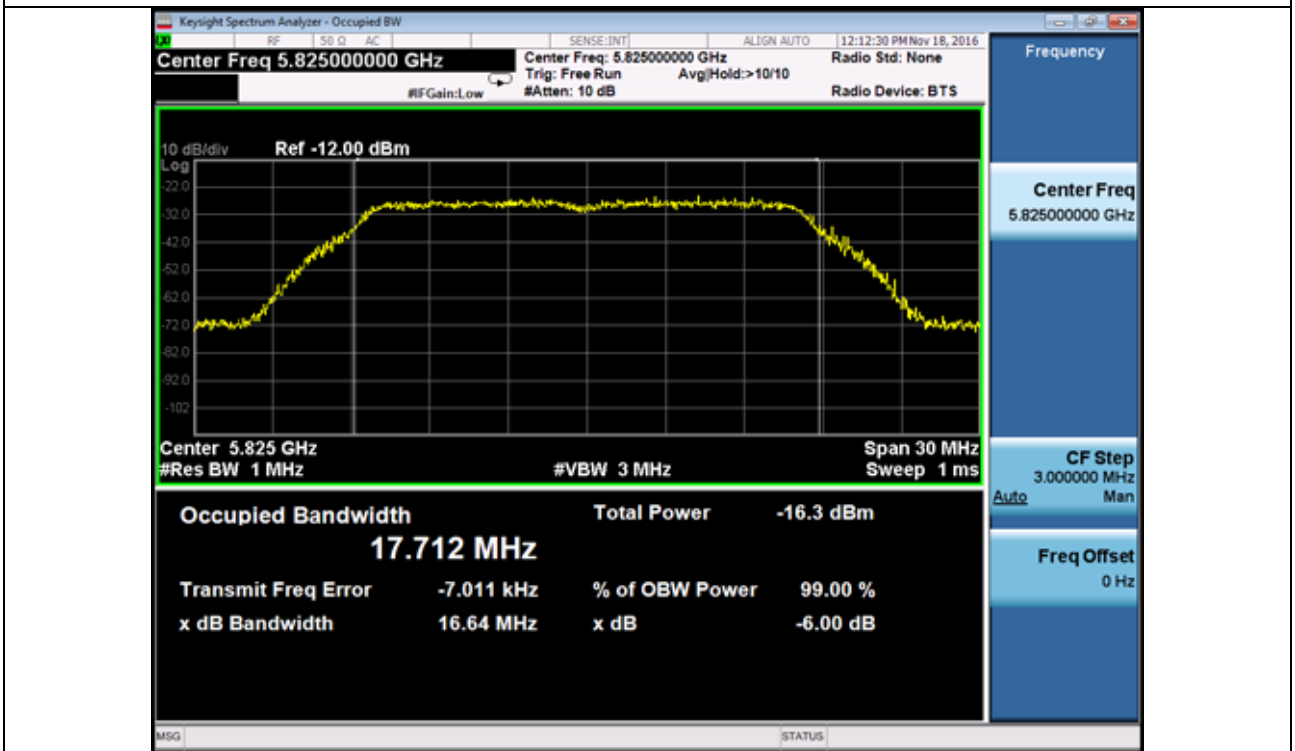
151	5755	36.50	36.40	>500	Pass
159	5795	35.30	34.73		Pass

**Mode 11: Transmit by 802.11ac(80MHz) with Beamforming**

155	5775	75.53	73.74	>500	Pass
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The worst case of Occupied Bandwidth as below:

**Mode 1 CH165 (5825MHz) Ant 0**



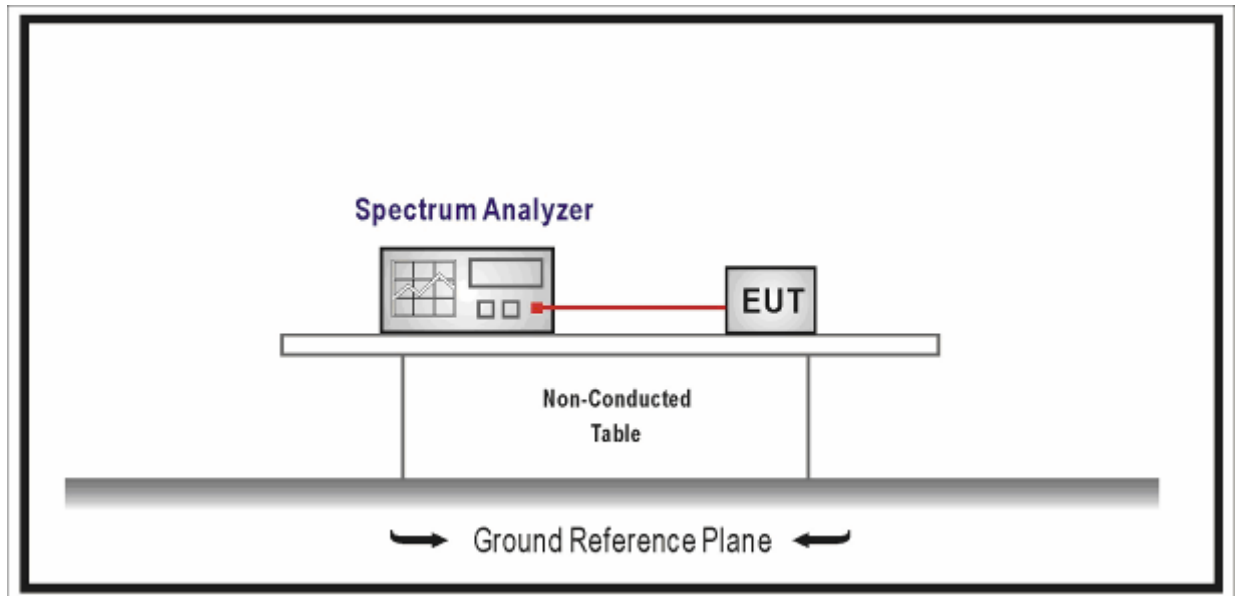
## 7. Power Output

### 7.1. Test Equipment

Power Output / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2017.01.03	2018.01.02
Spectrum Analyzer	Agilent	N9010A	MY48030494	2017.02.04	2018.01.15
Wideband Peak Power Meter	Anritsu	ML2495A	0905006	2016.10.14	2017.10.13
Power Sensor	Anritsu	MA2411B	0846014	2016.10.14	2017.10.13
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.

### 7.2. Test Setup



### 7.3. Limit

Fundamental emission output power Limit	
<input checked="" type="checkbox"/>	For the band 5.15-5.25 GHz
<input type="checkbox"/>	Outdoor AC1200 Wireless Dual Band Gigabit Router: the maximum conducted output power shall not exceed 1 W. If $G_{TX} > 6\text{dBi}$ , then $P_{out} = 30 - (G_{TX} - 6)$ and 125mW at any angle above 30 degrees
<input checked="" type="checkbox"/>	Indoor AC1200 Wireless Dual Band Gigabit Router: the maximum conducted output power shall not exceed 1 W. If $G_{TX} > 6\text{dBi}$ , then $P_{out} = 30 - (G_{TX} - 6)$
<input type="checkbox"/>	Fixed point-to-point AC1200 Wireless Dual Band Gigabit Routers: the maximum conducted output power shall not exceed 1 W. If $G_{TX} > 23\text{dBi}$ , then $P_{out} = 30 - (G_{TX} - 23)$
<input type="checkbox"/>	Mobile and portable client devices: the maximum conducted output power shall not exceed 250mW. If $G_{TX} > 6\text{dBi}$ , then $P_{out} = 24 - (G_{TX} - 6)$
<input type="checkbox"/>	For the band 5.25-5.35 GHz:
<input type="checkbox"/>	the maximum conducted output power shall not exceed 250mW or $11\text{dBm} + 10 \text{Log } B$ , where B is the 26dB emission bandwidth in MHz. If $G_{TX} > 6\text{dBi}$ , then $P_{out} = \text{(The lesser of 24 or } 11\text{dBm} + 10 \text{Log } B) - (G_{TX} - 6)$
<input type="checkbox"/>	For the 5.47-5.725 GHz:
<input type="checkbox"/>	the maximum conducted output power shall not exceed 250mW or $11\text{dBm} + 10 \text{Log } B$ , where B is the 26dB emission bandwidth in MHz. If $G_{TX} > 6\text{dBi}$ , then $P_{out} = \text{(The lesser of 24 or } 11\text{dBm} + 10 \text{Log } B) - (G_{TX} - 6)$
<input checked="" type="checkbox"/>	For the band 5.725-5.85 GHz:
<input checked="" type="checkbox"/>	Point-to-multipoint systems (P2M): the maximum conducted output power ( $P_{Out}$ ) shall not exceed the lesser of 1 W. If $G_{TX} > 6 \text{ dBi}$ , then $P_{Out} = 30 - (G_{TX} - 6)$
<input type="checkbox"/>	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 .	

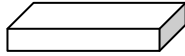
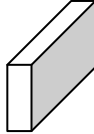
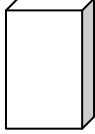



### 7.4. Test Procedure

Fundamental emission output power Test Method					
	References Rule		Chapter	Description	
<input checked="" type="checkbox"/>	ANSI C63.10		12.3	Maximum conducted output power	
	<input checked="" type="checkbox"/>	ANSI C63.10	12.3.2	Maximum conducted output power measurement using a spectrum analyzer (SA) or EMI receiver	
		<input type="checkbox"/>	ANSI C63.10	12.3.2.2	Method SA-1
		<input type="checkbox"/>	ANSI C63.10	12.3.2.3	Method SA-1A (alternative)
		<input checked="" type="checkbox"/>	ANSI C63.10	12.3.2.4	Method SA-2
		<input type="checkbox"/>	ANSI C63.10	12.3.2.5	Method SA-2A (alternative)
		<input type="checkbox"/>	ANSI C63.10	12.3.2.6	Method SA-3
		<input type="checkbox"/>	ANSI C63.10	12.3.2.7	Method SA-3A (alternative)
		<input checked="" type="checkbox"/>	ANSI C63.10	12.3.3	Maximum conducted output power using a power meter
		<input type="checkbox"/>	ANSI C63.10	12.3.3.1	Method PM
		<input checked="" type="checkbox"/>	ANSI C63.10	12.3.3.2	Method PM-G
<input type="checkbox"/>	KDB 789033		H	Measurement of emission at elevation angle higher than 30° from horizon	
	<input type="checkbox"/>	KDB 789033		1	For fixed infrastructure, not electrically or mechanically steerable beam antenna
		<input type="checkbox"/>	KDB 789033	a)	elevation plane radiation pattern is available:
		<input type="checkbox"/>	KDB 789033	b)	elevation plane radiation pattern is not available
	<input type="checkbox"/>	KDB 789033		2	For All Other Types of Antenna



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

**7.5. EUT test Axis definition**

Item	Power Output			
Device Category	<input type="checkbox"/>	Outdoor AP		
	<input checked="" type="checkbox"/>	Indoor AP		
	<input type="checkbox"/>	Fixed point-to-point AP		
	<input type="checkbox"/>	Outdoor fixed point-to-multipoint AP		
	<input type="checkbox"/>	Client		
Test mode	Mode 1-11			
Test method	<input type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>
	<input checked="" type="checkbox"/>	Conducted		
	<input type="checkbox"/>	Chain 1		
				
	<input checked="" type="checkbox"/>	Chain 1	Chain 2	
				
	<input type="checkbox"/>	Chain 1	Chain 2	Chain 3
				

## 7.6. Test Result

Product Name	: AC1200 Wireless Dual Band Gigabit Router	Power	: 120V/60Hz
Model No.	: Archer C1200	Test Site	: TR8
Test Mode	: Mode 1~11	Test Date	: 2017.01.15

### Mode 1: Transmit by 802.11a

Channel No.	Frequency (MHz)	Measurement Power		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH36	5180	22.43	22.02	25.24	30.0	Pass
CH42	5220	24.45	24.48	27.48	30.0	Pass
CH48	5240	24.47	24.41	27.45	30.0	Pass
Channel No.	Frequency (MHz)	Measurement Power		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH149	5745	23.51	23.74	26.64	30.0	Pass
CH157	5785	24.01	24.21	27.12	30.0	Pass
CH165	5825	22.44	22.68	25.57	30.0	Pass

### Mode 2: Transmit by 802.11n(20MHz)

Channel No.	Frequency (MHz)	Measurement Power		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH36	5180	18.65	19.05	21.86	30.0	Pass
CH42	5220	24.38	24.42	27.41	30.0	Pass
CH48	5240	25.29	25.17	28.24	30.0	Pass
Channel No.	Frequency (MHz)	Measurement Power		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH149	5745	22.54	22.86	25.71	30.0	Pass
CH157	5785	23.89	24.19	27.05	30.0	Pass
CH165	5825	22.47	22.74	25.62	30.0	Pass

### Mode 3: Transmit by 802.11n(40MHz)

Channel No.	Frequency (MHz)	Measurement Power (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
38	5190	17.34	17.75	20.56	30.0	Pass

46	5230	24.03	23.79	26.92	30.0	Pass
Channel No.	Frequency (MHz)	Measurement Power (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
151	5755	23.64	23.91	26.79	30.0	Pass
159	5795	23.59	23.87	26.74	30.0	Pass
<b>Mode 4: Transmit by 802.11ac(20MHz)</b>						
Channel No.	Frequency (MHz)	Measurement Power		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH36	5180	18.26	18.85	21.58	30.0	Pass
CH42	5220	24.29	24.38	27.35	30.0	Pass
CH48	5240	25.19	25.22	28.22	30.0	Pass
Channel No.	Frequency (MHz)	Measurement Power		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH149	5745	24.15	24.26	27.22	30.0	Pass
CH157	5785	23.99	24.18	27.10	30.0	Pass
CH165	5825	23.07	23.15	26.12	30.0	Pass
<b>Mode 5: Transmit by 802.11ac(40MHz)</b>						
Channel No.	Frequency (MHz)	Measurement Power (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
38	5190	17.61	17.98	20.81	30.0	Pass
46	5230	23.52	23.48	26.51	30.0	Pass
Channel No.	Frequency (MHz)	Measurement Power (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
151	5755	24.03	24.47	27.27	30.0	Pass
159	5795	24.11	24.08	27.11	30.0	Pass
<b>Mode 6: Transmit by 802.11ac(80MHz)</b>						
Channel No.	Frequency (MHz)	Measurement Power (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH42	5210	15.36	15.58	18.48	30.0	Pass
Channel No.	Frequency (MHz)	Measurement Power (dBm)		Total Power (dBm)	Limit (dBm)	Result

		Ant0	Ant1			
CH155	5775	21.49	21.46	24.49	30.0	Pass
<b>Mode 7: Transmit by 802.11n(20MHz) with Beamforming</b>						
Channel No.	Frequency (MHz)	Measurement Power		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH36	5180	20.53	20.87	23.71	30.0	Pass
CH42	5220	24.28	24.47	27.39	30.0	Pass
CH48	5240	24.31	24.67	27.50	30.0	Pass
Channel No.	Frequency (MHz)	Measurement Power		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH149	5745	24.27	24.82	27.56	30.0	Pass
CH157	5785	24.29	24.64	27.48	30.0	Pass
CH165	5825	24.19	24.57	27.39	30.0	Pass
<b>Mode 8: Transmit by 802.11n(40MHz) with Beamforming</b>						
Channel No.	Frequency (MHz)	Measurement Power (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
38	5190	14.45	14.76	17.62	30.0	Pass
46	5230	24.39	24.44	27.43	30.0	Pass
Channel No.	Frequency (MHz)	Measurement Power (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
151	5755	24.39	24.63	27.52	30.0	Pass
159	5795	24.28	24.49	27.40	30.0	Pass
<b>Mode 9: Transmit by 802.11ac(20MHz) with Beamforming</b>						
Channel No.	Frequency (MHz)	Measurement Power		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH36	5180	20.69	20.88	23.80	30.0	Pass
CH42	5220	24.21	24.43	27.33	30.0	Pass
CH48	5240	24.13	24.33	27.24	30.0	Pass
Channel No.	Frequency (MHz)	Measurement Power		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH149	5745	24.41	24.54	27.49	30.0	Pass
CH157	5785	24.26	24.39	27.34	30.0	Pass
CH165	5825	24.27	24.59	27.44	30.0	Pass

<b>Mode 10: Transmit by 802.11ac(40MHz) with Beamforming</b>						
Channel No.	Frequency (MHz)	Measurement Power (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
38	5190	14.67	14.99	17.84	30.0	Pass
46	5230	23.98	24.13	27.07	30.0	Pass
Channel No.	Frequency (MHz)	Measurement Power (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
151	5755	24.37	24.55	27.47	30.0	Pass
159	5795	24.31	24.67	27.50	30.0	Pass
<b>Mode 11: Transmit by 802.11ac(80MHz) with Beamforming</b>						
Channel No.	Frequency (MHz)	Measurement Power (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH42	5210	14.71	15.01	17.87	30.0	Pass
Channel No.	Frequency (MHz)	Measurement Power (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant0	Ant1			
CH155	5775	23.96	24.29	27.14	30.0	Pass

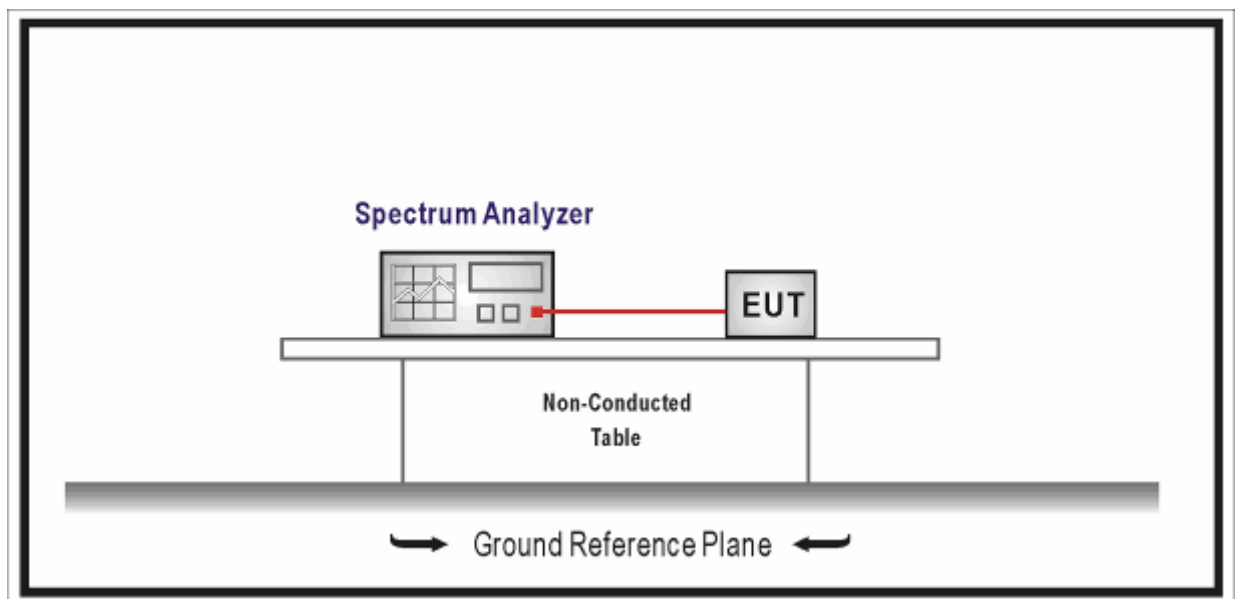
## 8. Peak Power Spectral Density

### 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	2017.02.04	2018.01.15
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2016.04.09	2017.04.08
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2016.04.09	2017.04.08
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.

### 8.2. Test Setup



### 8.3. Limit

Fundamental emission output power Limit	
<input checked="" type="checkbox"/>	For the band 5.15-5.25 GHz
<input type="checkbox"/>	Outdoor AC1200 Wireless Dual Band Gigabit Router: the maximum power spectral density shall not exceed 17 dBm/MHz. If $G_{TX} > 6\text{dBi}$ , then $P_{out} = 17 - (G_{TX} - 6)$
<input checked="" type="checkbox"/>	Indoor AC1200 Wireless Dual Band Gigabit Router: the maximum power spectral density shall not exceed 17 dBm/MHz. If $G_{TX} > 6\text{dBi}$ , then $P_{out} = 17 - (G_{TX} - 6)$
<input type="checkbox"/>	Fixed point-to-point AC1200 Wireless Dual Band Gigabit Routers: the maximum power spectral density shall not exceed 17 dBm/MHz. If $G_{TX} > 23\text{dBi}$ , then $P_{out} = 17 - (G_{TX} - 23)$
<input type="checkbox"/>	Mobile and portable client devices: the maximum power spectral density shall not exceed 11 dBm/MHz. If $G_{TX} > 6\text{dBi}$ , then $P_{out} = 11 - (G_{TX} - 6)$
<input type="checkbox"/>	For the 5.25-5.35 GHz:
<input type="checkbox"/>	the maximum power spectral density shall not exceed 11 dBm/MHz. If $G_{TX} > 6\text{dBi}$ , then $P_{out} = 11 - (G_{TX} - 6)$
<input type="checkbox"/>	For the 5.47-5.725 GHz:
<input type="checkbox"/>	the maximum power spectral density shall not exceed 11 dBm/MHz. If $G_{TX} > 6\text{dBi}$ , then $P_{out} = 11 - (G_{TX} - 6)$
<input checked="" type="checkbox"/>	For the band 5.725-5.85 GHz:
<input checked="" type="checkbox"/>	the maximum power spectral density shall not exceed 30 dBm/500KHz. If $G_{TX} > 6\text{dBi}$ , then $P_{out} = 30 - (G_{TX} - 6)$
Note 1 : $G_{TX}$ directional gain of transmitting antennas.	
Note 2 : $P_{out}$ is maximum peak conducted output power .	

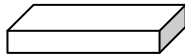
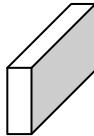
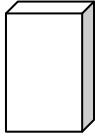
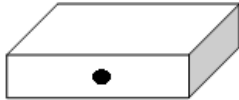
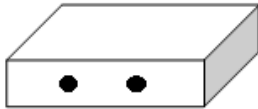
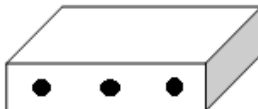


### 8.4. Test Procedure

Fundamental emission output power Test Method			
	References Rule	Chapter	Description
<input checked="" type="checkbox"/>	ANSI C63.10	12.5	Peak power spectral density
<input checked="" type="checkbox"/>	FCC KDB 789033 D02v01r03	F	Maximum Power Spectral Density (PSD)

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

**8.5. EUT test Axis definition**

Item	Peak power spectral density			
Device Category	<input type="checkbox"/>	Outdoor AP		
	<input checked="" type="checkbox"/>	Indoor AP		
	<input type="checkbox"/>	Fixed point-to-point AP		
	<input type="checkbox"/>	Outdoor fixed point-to-multipoint AP		
	<input type="checkbox"/>	Client		
Test mode	Mode 1-9			
Test method	<input type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>
	<input checked="" type="checkbox"/>	Conducted		
	<input type="checkbox"/>	Chain 1		
				
	<input checked="" type="checkbox"/>	Chain 1	Chain 2	
				
	<input type="checkbox"/>	Chain 1	Chain 2	Chain 3
				

## 8.6. Test Result

Product Name	: AC1200 Wireless Dual Band Gigabit Router	Power	: 120V/60Hz
Model No.	: Archer C1200	Test Site	: TR8
Test Mode	: Mode 1~11	Test Date	: 2017.01.05

Mode 1: Transmit by 802.11a						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant0	Ant1			
CH36	5180	10.481	9.633	13.09	17.0	Pass
CH44	5220	12.768	12.313	15.56	17.0	Pass
CH48	5240	13.031	13.251	16.15	17.0	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Total PPSD (dBm/500KHz)	Limit (dBm/500KHz)	Result
		Ant0	Ant1			
CH149	5745	6.670	6.824	9.76	30.0	Pass
CH157	5785	8.948	8.925	11.95	30.0	Pass
CH165	5825	7.592	6.948	10.29	30.0	Pass
Mode 2: Transmit by 802.11n(20MHz)						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant0	Ant1			
CH36	5180	6.869	6.941	9.92	17.0	Pass
CH44	5220	13.220	12.680	15.97	17.0	Pass
CH48	5240	13.219	13.215	16.23	17.0	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Total PPSD (dBm/500KHz)	Limit (dBm/500KHz)	Result
		Ant0	Ant1			
CH149	5745	7.795	7.594	10.71	30.0	Pass
CH157	5785	8.402	9.250	11.86	30.0	Pass
CH165	5825	8.842	9.102	11.98	30.0	Pass

<b>Mode 3: Transmit by 802.11n(40MHz)</b>						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant0	Ant1			
CH38	5190	3.381	3.397	6.40	17.0	Pass
CH46	5230	8.814	8.838	11.84	17.0	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Total PPSD (dBm/500KHz)	Limit (dBm/500KHz)	Result
		Ant0	Ant1			
CH151	5755	6.013	5.962	9.00	30.0	Pass
CH159	5795	7.265	5.744	9.58	30.0	Pass
<b>Mode 4: Transmit by 802.11ac(20MHz)</b>						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant0	Ant1			
CH36	5180	5.959	6.677	9.34	17.0	Pass
CH44	5220	12.639	13.030	15.85	17.0	Pass
CH48	5240	13.146	13.070	16.12	17.0	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Total PPSD (dBm/500KHz)	Limit (dBm/500KHz)	Result
		Ant0	Ant1			
CH149	5745	9.059	9.118	12.10	30.0	Pass
CH157	5785	9.071	7.825	11.50	30.0	Pass
CH165	5825	8.142	8.102	11.13	30.0	Pass
<b>Mode 5: Transmit by 802.11ac(40MHz)</b>						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant0	Ant1			
CH38	5190	3.489	3.223	6.37	17.0	Pass
CH46	5230	8.712	8.218	11.48	17.0	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Total PPSD (dBm/500KHz)	Limit (dBm/500KHz)	Result
		Ant0	Ant1			
CH151	5755	6.207	6.482	9.36	30.0	Pass

CH159	5795	6.547	6.170	9.37	30.0	Pass
<b>Mode 6: Transmit by 802.11ac(80MHz)</b>						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant0	Ant1			
CH42	5210	-1.713	-1.586	1.36	17.0	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Total PPSD (dBm/500KHz)	Limit (dBm/500KHz)	Result
		Ant0	Ant1			
CH155	5775	1.020	1.033	4.04	30.0	Pass
<b>Mode 7: Transmit by 802.11n(20MHz) With Beamforming</b>						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant0	Ant1			
CH36	5180	7.601	7.481	13.81	17.0	Pass
CH44	5220	8.127	8.329	14.50	17.0	Pass
CH48	5240	7.954	8.041	14.27	17.0	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Total PPSD (dBm/500KHz)	Limit (dBm/500KHz)	Result
		Ant0	Ant1			
CH149	5745	4.458	4.282	10.64	30.0	Pass
CH157	5785	4.404	4.339	10.64	30.0	Pass
CH165	5825	4.264	4.226	10.52	30.0	Pass
<b>Mode 8: Transmit by 802.11n(40MHz) With Beamforming</b>						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant0	Ant1			
CH38	5190	3.699	3.476	10.15	17.0	Pass
CH46	5230	3.34	3.582	10.02	17.0	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Total PPSD (dBm/500KHz)	Limit (dBm/500KHz)	Result
		Ant0	Ant1			
CH151	5755	-1.77	-1.791	4.78	30.0	Pass
CH159	5795	-1.79	-1.571	4.88	30.0	Pass

<b>Mode 9: Transmit by 802.11ac(20MHz) With Beamforming</b>						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant0	Ant1			
CH36	5180	7.521	8.192	13.99	17.0	Pass
CH44	5220	7.966	8.087	14.15	17.0	Pass
CH48	5240	8.419	7.863	14.27	17.0	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Total PPSD (dBm/500KHz)	Limit (dBm/500KHz)	Result
		Ant0	Ant1			
CH149	5745	4.642	4.461	10.67	30.0	Pass
CH157	5785	4.461	4.083	10.40	30.0	Pass
CH165	5825	4.285	4.439	10.48	30.0	Pass
<b>Mode 10: Transmit by 802.11ac(40MHz) With Beamforming</b>						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant0	Ant1			
CH38	5190	3.498	3.628	9.87	17.0	Pass
CH46	5230	3.935	3.227	9.91	17.0	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Total PPSD (dBm/500KHz)	Limit (dBm/500KHz)	Result
		Ant0	Ant1			
CH151	5755	-1.603	-1.725	4.65	30.0	Pass
CH159	5795	-1.61	-1.253	4.88	30.0	Pass
<b>Mode 11: Transmit by 802.11ac(80MHz) With Beamforming</b>						
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
		Ant0	Ant1			
CH42	5210	1.001	1.581	8.02	17.0	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Total PPSD (dBm/500KHz)	Limit (dBm/500KHz)	Result
		Ant0	Ant1			
CH155	5775	-3.854	-4.313	2.64	30.0	Pass

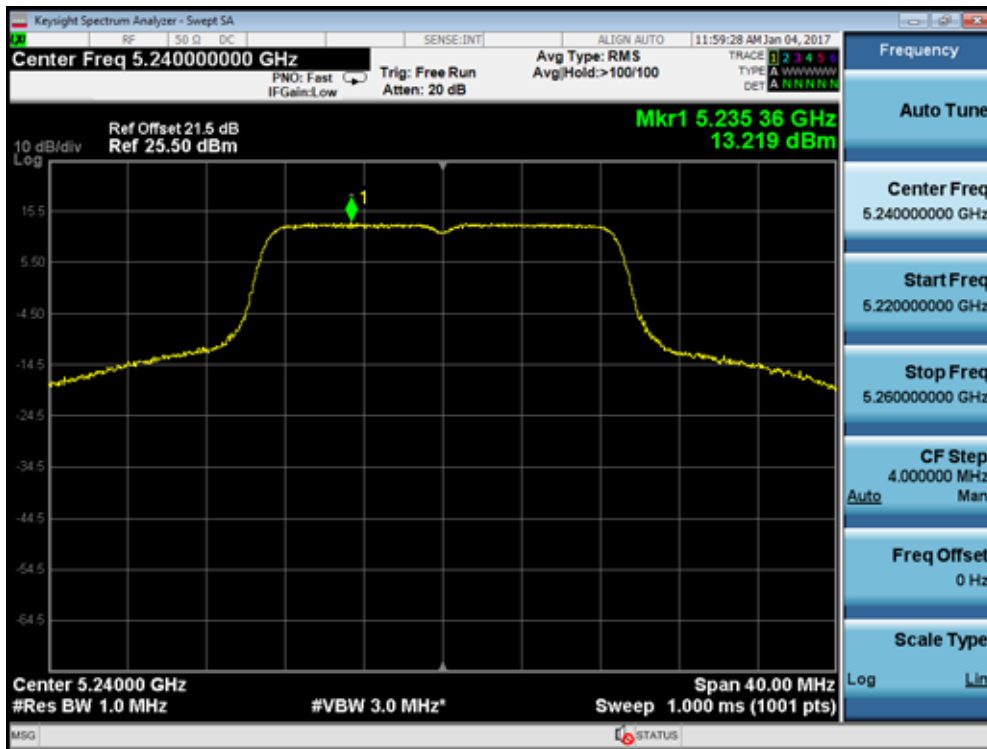
Note1: Limit = Power Density Limit – (Antenna Gain – 6dBi)

2: Because of the setup, the total PPSD of Beam-forming mode should add additional 3dB for a

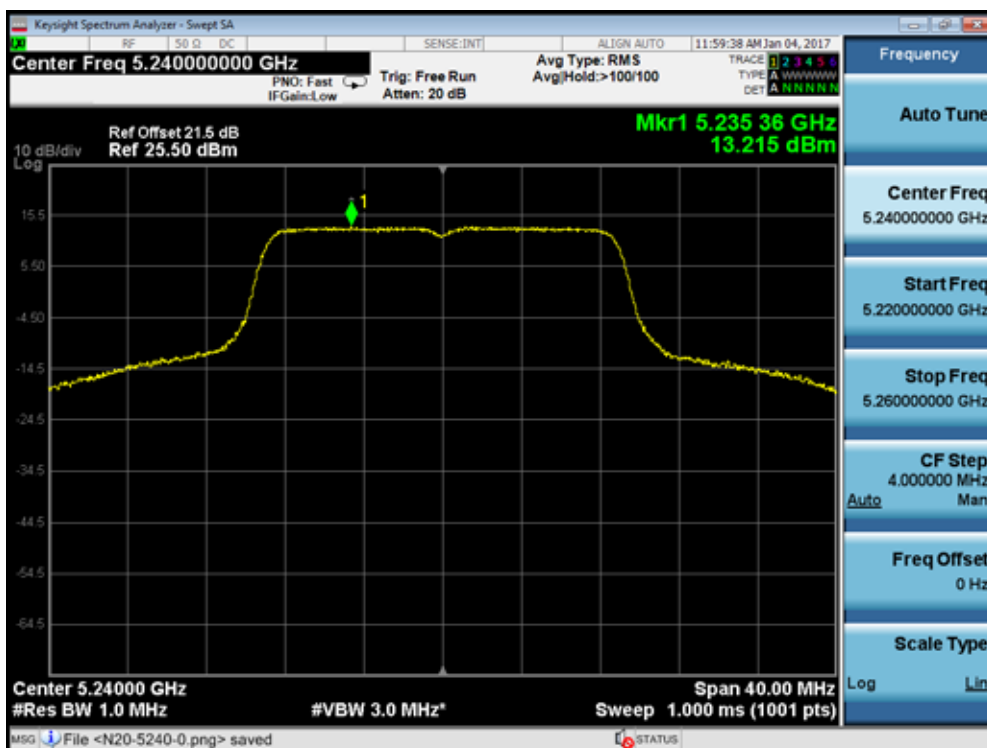
two-way power divider. So the Total PPSD of beam-forming = Total Measured PPSD + 3dB + duty factor.

The worst case of 6dB Bandwidth as below:

### Mode 2 CH48 (5240MHz) Ant 0



### Mode 2 CH48 (5240MHz) Ant 1



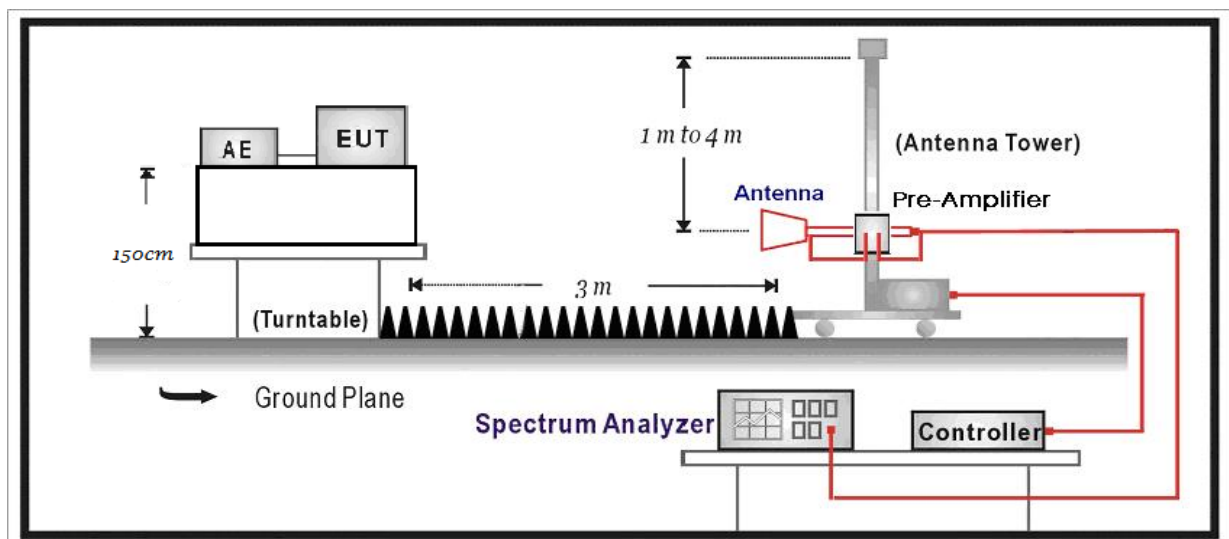
## 9. Radiated Emission Band Edge

### 9.1. Test Equipment

Radiated Emission Band Edge / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Receiver	Agilent	N9038A	MY51210196	2016.07.16	2017.07.15
Pre-Amplifier	Miteq	NSP1800-25	1364185	2016.05.03	2017.05.02
DRG Horn Antenna	ETS-Lindgren	3117	00167055	2016.07.12	2017.07.11
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2016.12.12	2017.09.17
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2016.02.28	2017.02.27
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2016.02.28	2017.02.27
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2017.01.04	2018.01.03

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 9.2. Test Setup





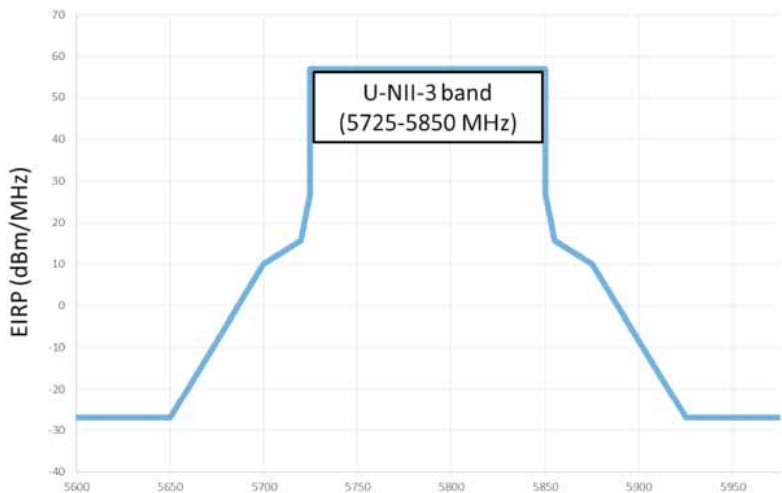
**9.3. Limit**

<b>FCC Part 15 Subpart C Paragraph 15.209 (Restricted Band Emissions Limit)</b>		
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).

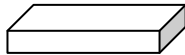
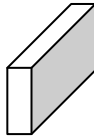
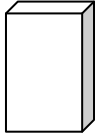
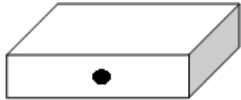
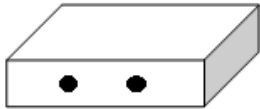

<b>FCC Part 15 Subpart C Paragraph 15.205 (Restricted Band)</b>			
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 – 16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 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 $\mu$ 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	 <p>U-NII-3 band (5725-5850 MHz)</p>	

### 9.4. Test Procedure

Test Method				
	References Rule	Chapter	Description	
<input type="checkbox"/>	ANSI C63.10	12.7.3	Emissions in non-restricted frequency bands	
<input checked="" type="checkbox"/>	ANSI C63.10	12.7.2	Emissions in restricted frequency bands	
	<input checked="" type="checkbox"/>	ANSI C63.10	12.7.5	Radiated emission measurements
	<input checked="" type="checkbox"/>	ANSI C63.10	12.7.6	Procedure for peak unwanted emissions measurements above 1000 MHz
	<input checked="" type="checkbox"/>	ANSI C63.10	12.7.7	Procedures for average unwanted emissions measurements above 1000 MHz
	<input type="checkbox"/>	ANSI C63.10	12.7.7.2	Method AD (average detection)—primary method
	<input checked="" type="checkbox"/>	ANSI C63.10	12.7.7.3	Method VB-A (Alternative)
	<input checked="" type="checkbox"/>	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
	<input checked="" type="checkbox"/>	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	<input checked="" type="checkbox"/>	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz
<input type="checkbox"/>	FCC KDB 789033 D02v01r03	G.2	Unwanted Emissions that fall Outside of the Restricted Bands	
<input type="checkbox"/>	FCC KDB 789033 D02v01r03	G.1	Unwanted Emissions in the Restricted Bands	
	<input type="checkbox"/>	FCC KDB 789033 D02v01r03	G.4	Procedure for Unwanted Emissions Measurements below 1000 MHz
	<input type="checkbox"/>	FCC KDB 789033 D02v01r03	G.5	Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz
	<input type="checkbox"/>	FCC KDB 789033 D02v01r03	G.6	Procedures for Average Unwanted Emissions Measurements above 1000 MHz
	<input type="checkbox"/>	FCC KDB 789033 D02v01r03	G.6.c	Method AD (Average detection)—primary method
	<input type="checkbox"/>	FCC KDB 789033 D02v01r03	G.6.d	Method VB (Averaging using reduced video bandwidth): Alternative method.

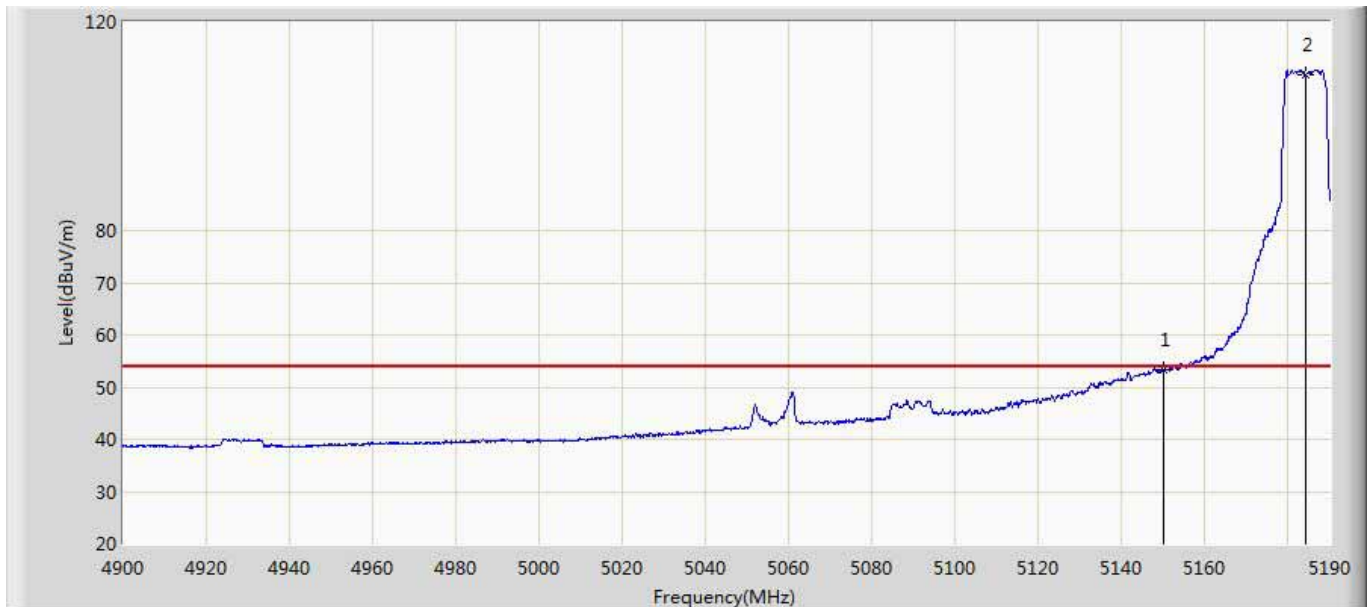
**9.5. EUT test Axis definition**

Item	Peak power spectral density			
Device Category	<input type="checkbox"/>	Outdoor AP		
	<input checked="" type="checkbox"/>	Indoor AP		
	<input type="checkbox"/>	Fixed point-to-point AP		
	<input type="checkbox"/>	Outdoor fixed point-to-multipoint AP		
	<input type="checkbox"/>	Client		
Test mode	Mode 1-9			
Test method	<input checked="" type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input checked="" type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>
	<input type="checkbox"/>	Conducted		
	<input type="checkbox"/>	Chain 1		
				
	<input type="checkbox"/>	Chain 1	Chain 2	
				
	<input type="checkbox"/>	Chain 1	Chain 2	Chain 3
				

### 9.6. Test Result

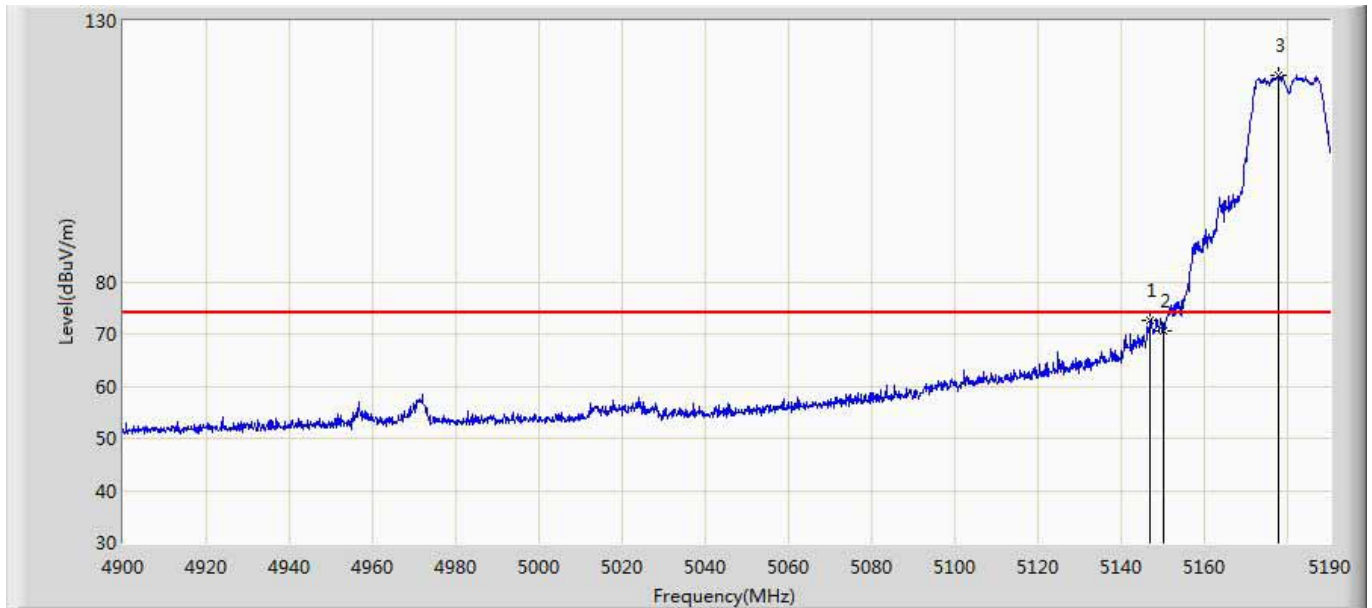
CDD mode:

Engineer: Bruce	
Site: AC5	Time: 2016/11/17 - 18:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5180 by 802.11a With antenna 0+1	



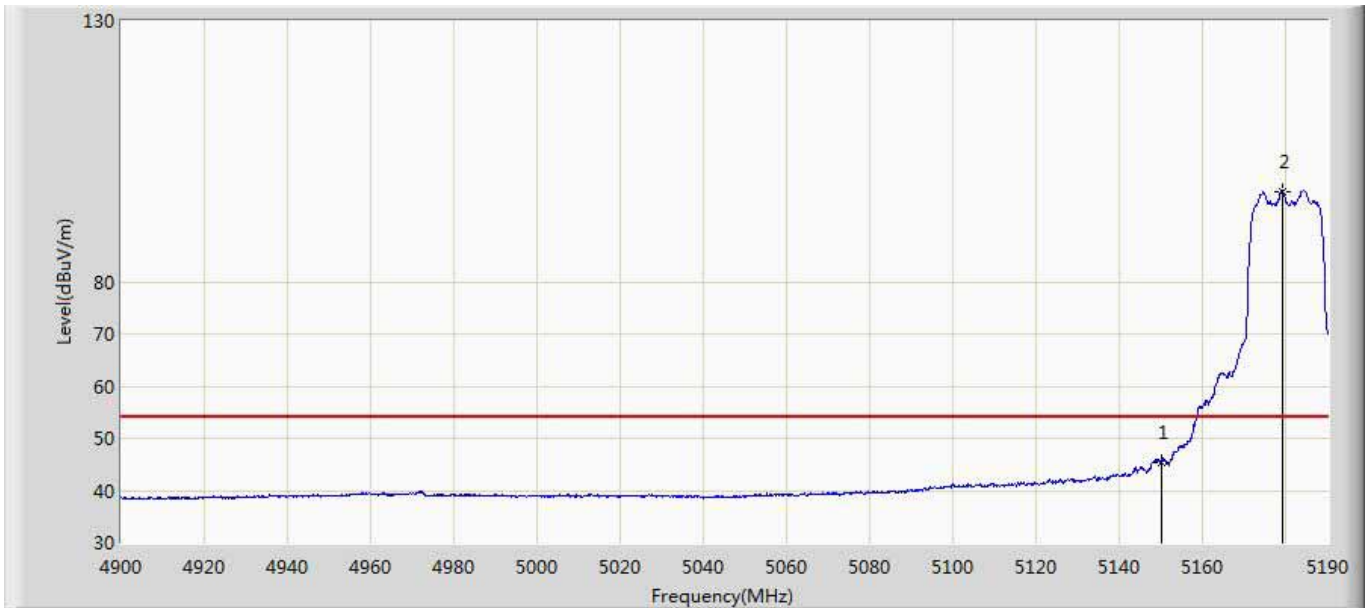
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	53.399	13.345	-0.601	54.000	40.054	AV
2	*	5184.345	109.805	69.681	55.805	54.000	40.123	AV

Engineer: Bruce	
Site: AC5	Time: 2016/11/17 - 19:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5180 by 802.11a With antenna 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5146.935	72.710	32.658	-1.290	74.000	40.052	PK
2		5150.000	70.546	30.492	-3.454	74.000	40.054	PK
3	*	5177.675	119.645	79.530	45.645	74.000	40.116	PK

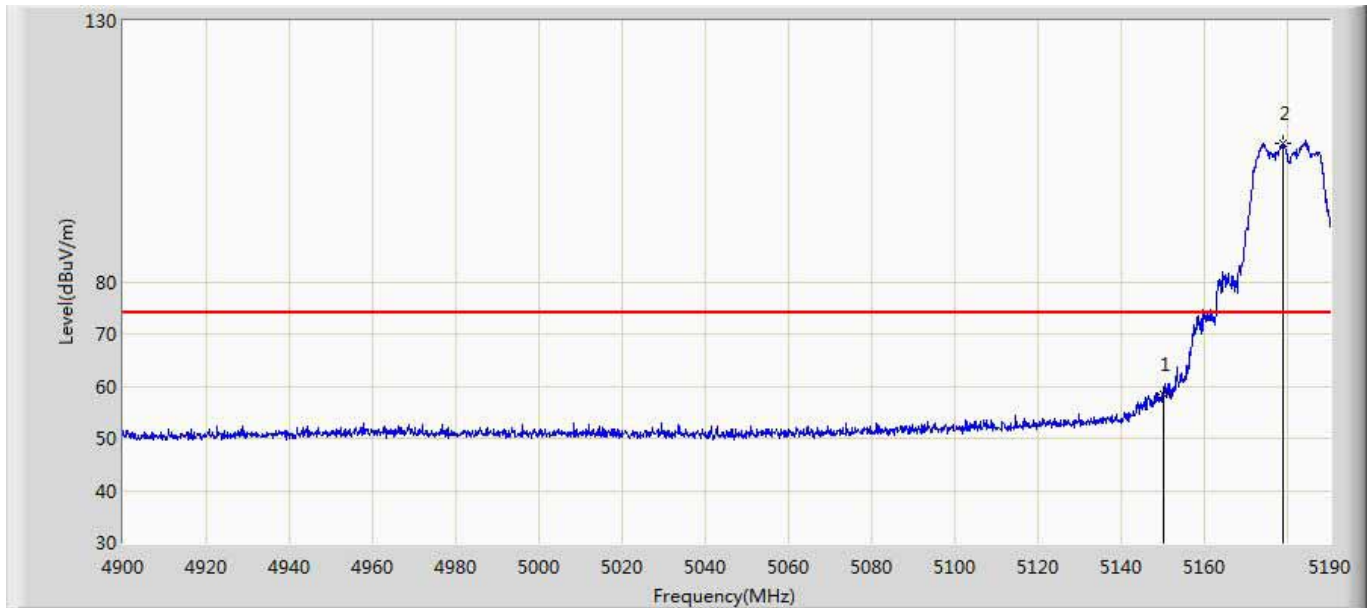
Engineer: Bruce	
Site: AC5	Time: 2016/11/17 - 19:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 5180 by 802.11a With antenna 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	45.506	5.452	-8.494	54.000	40.054	AV
2	*	5178.980	97.343	57.226	43.343	54.000	40.117	AV

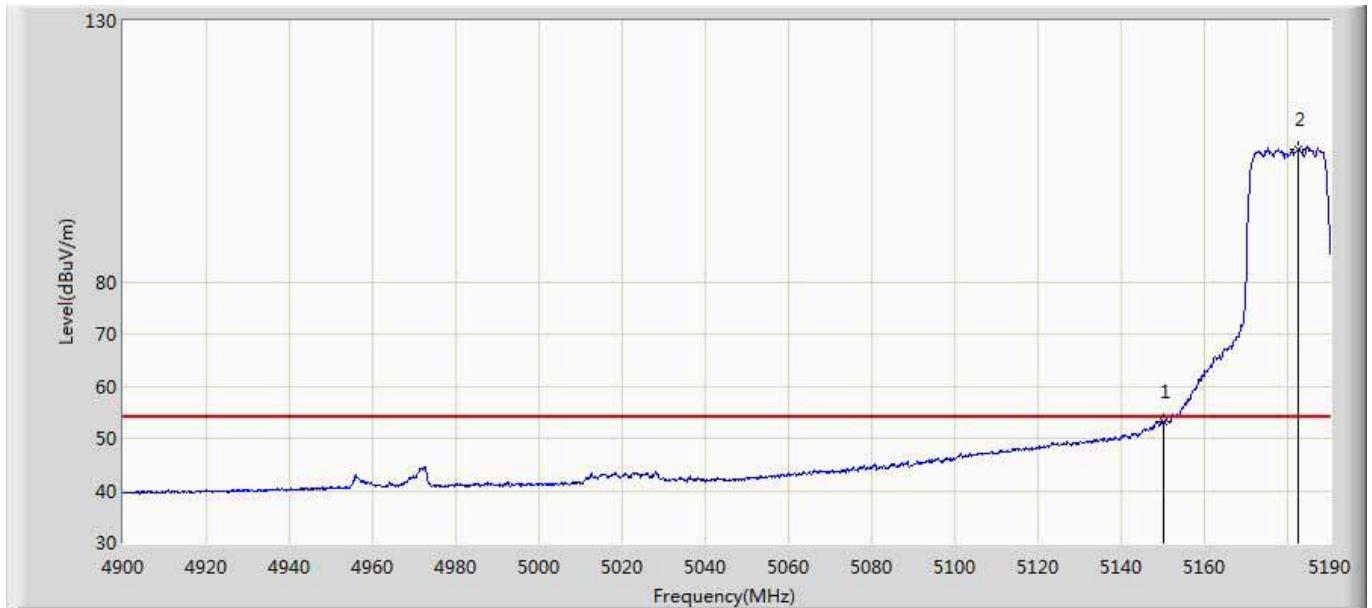


Engineer: Bruce	
Site: AC5	Time: 2016/11/17 - 19:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5180 by 802.11a With antenna 0+1	



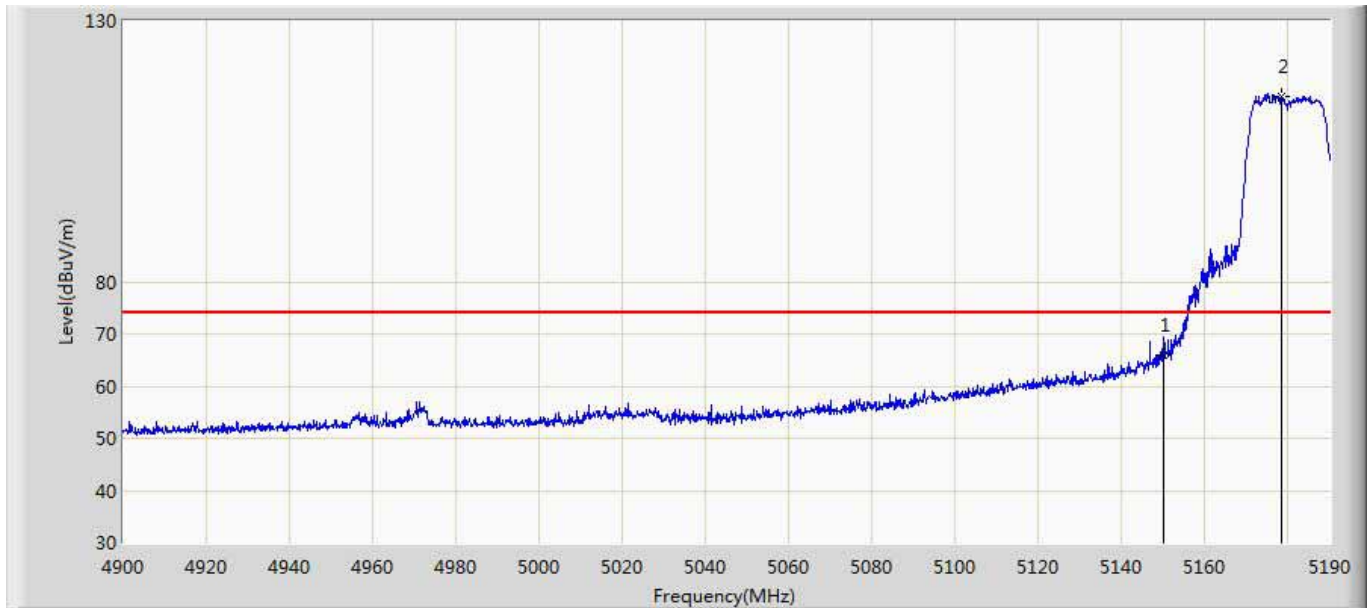
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	58.543	18.489	-15.457	74.000	40.054	PK
2	*	5178.835	106.391	66.274	32.391	74.000	40.117	PK

Engineer: Bruce	
Site: AC5	Time: 2016/11/17 - 19:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5180 by 802.11n20 With antenna 0+1	



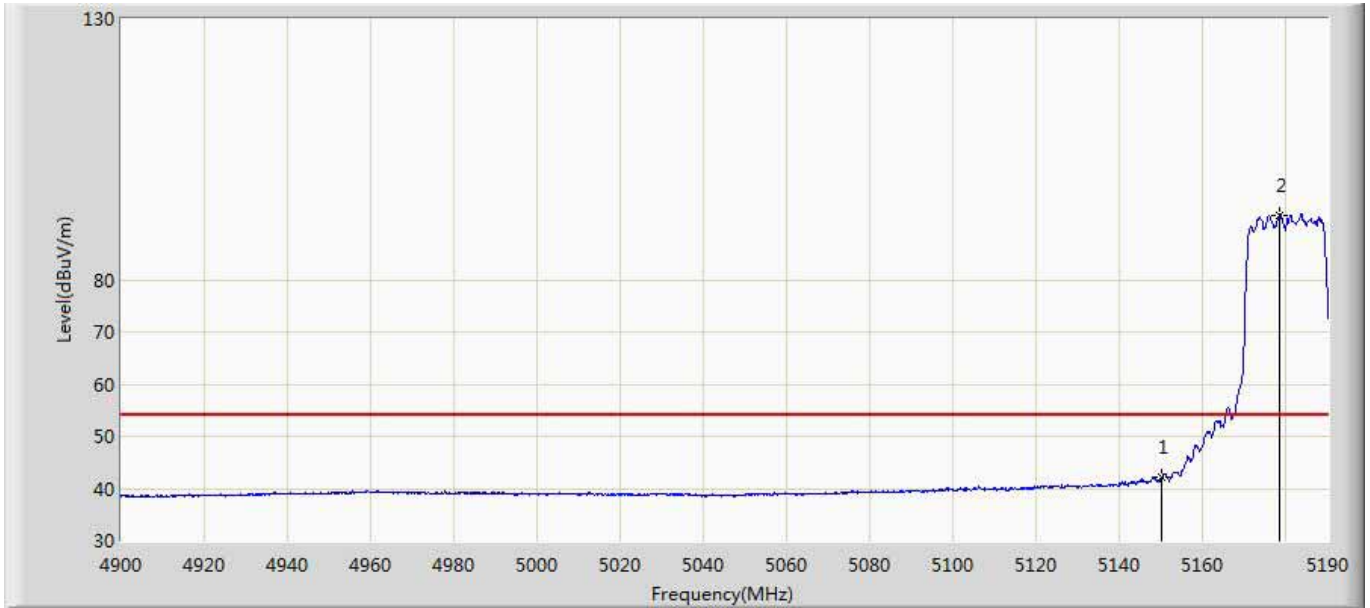
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	53.065	13.011	-0.935	54.000	40.054	AV
2	*	5182.315	105.344	65.222	51.344	54.000	40.122	AV

Engineer: Bruce	
Site: AC5	Time: 2016/11/17 - 19:53
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5180 by 802.11n20 With antenna 0+1	



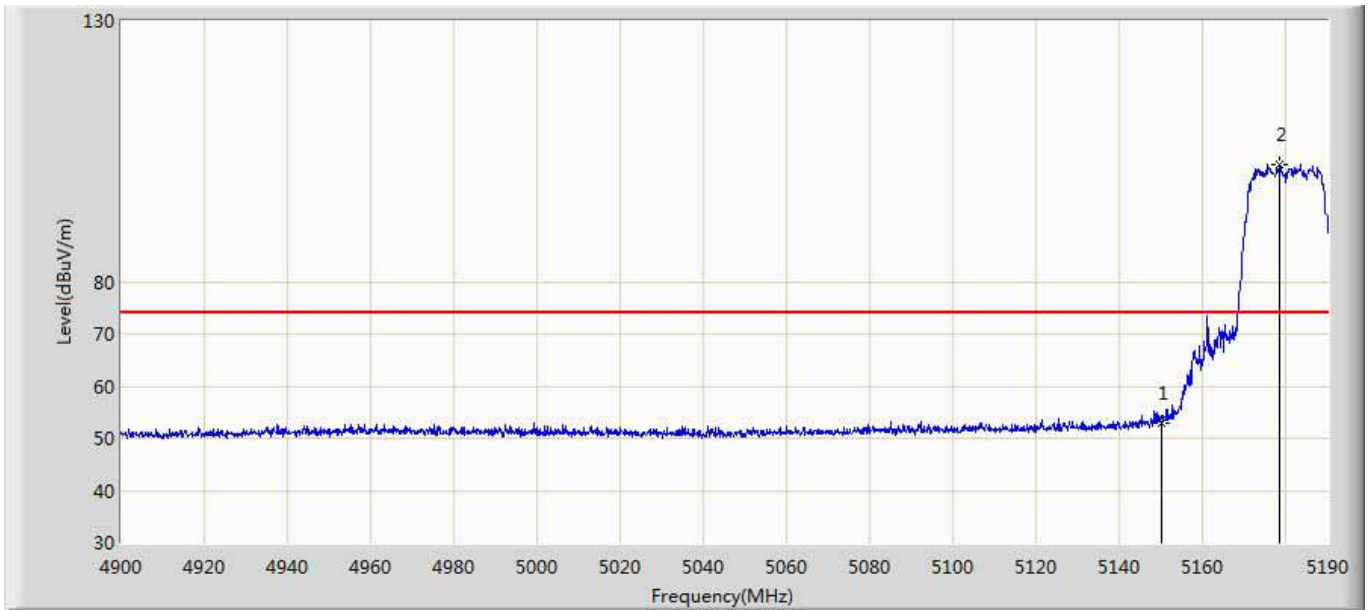
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	66.012	25.958	-7.988	74.000	40.054	PK
2	*	5178.400	115.632	75.516	41.632	74.000	40.116	PK

Engineer: Bruce	
Site: AC5	Time: 2016/11/17 - 19:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5180 by 802.11n20 With antenna 0+1	



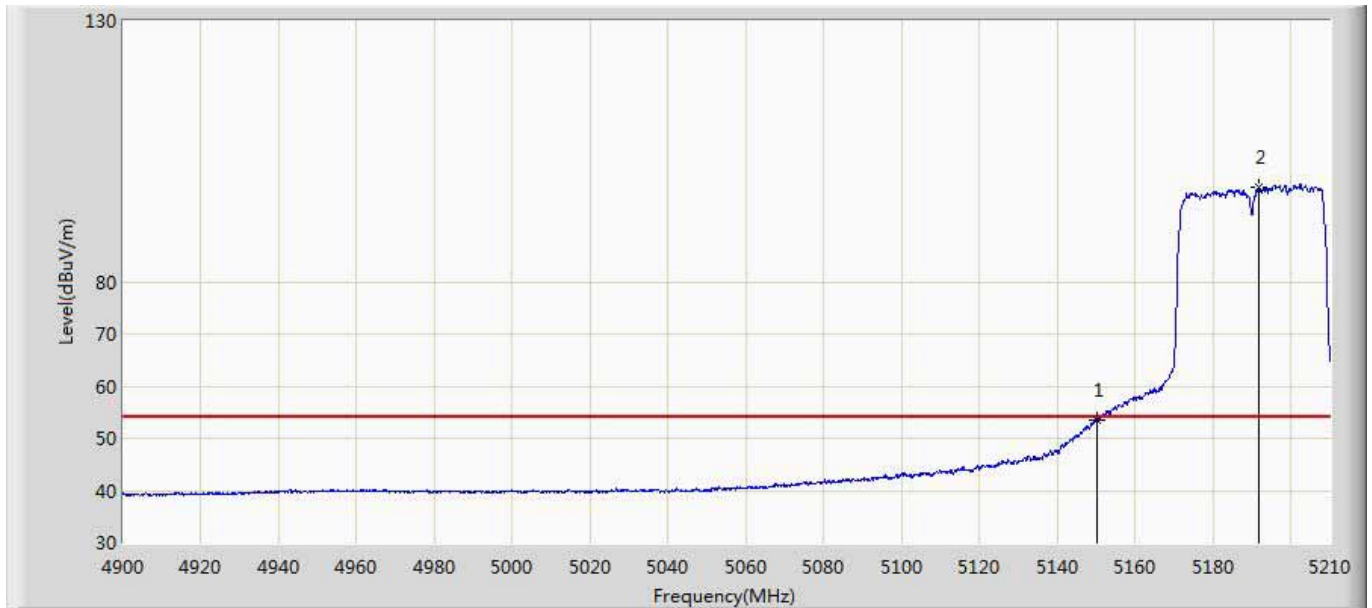
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	42.133	2.079	-11.867	54.000	40.054	AV
2	*	5178.545	92.367	52.250	38.367	54.000	40.117	AV

Profile: TP-Link 2016.11.17	Page No.: 8
Engineer: Bruce	
Site: AC5	Time: 2016/11/17 - 20:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5180 by 802.11n20 With antenna 0+1	



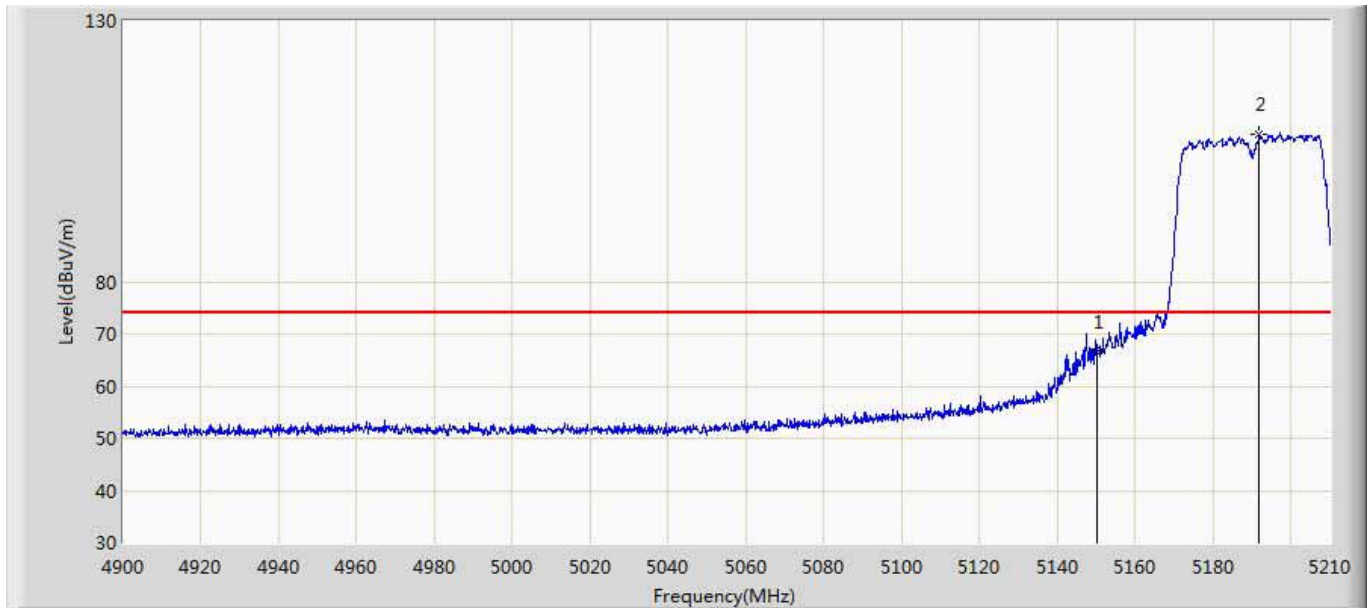
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	52.935	12.881	-21.065	74.000	40.054	PK
2	*	5178.545	102.413	62.296	28.413	74.000	40.117	PK

Engineer: Bruce	
Site: AC5	Time: 2016/11/17 - 20:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5190 by 802.11n40 With antenna 0+1	



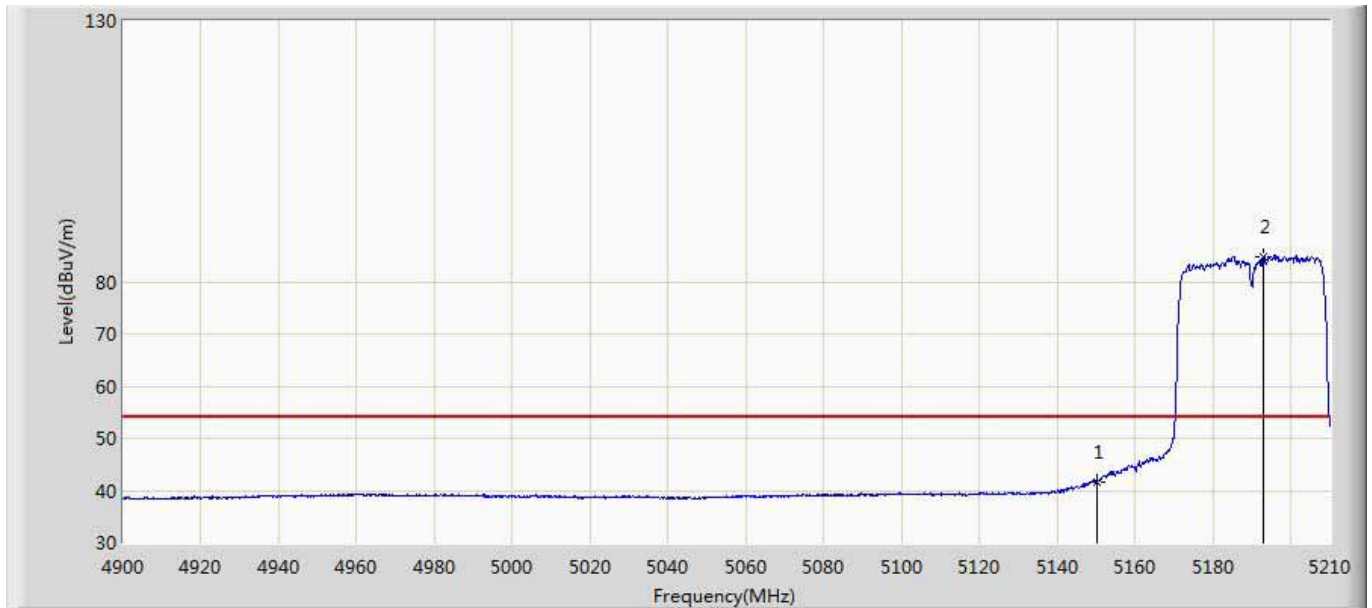
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	53.501	13.447	-0.499	54.000	40.054	AV
2	*	5191.865	98.225	58.095	44.225	54.000	40.130	AV

Engineer: Bruce	
Site: AC5	Time: 2016/11/17 - 20:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5190 by 802.11n40 With antenna 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	66.550	26.496	-7.450	74.000	40.054	PK
2	*	5191.865	108.234	68.104	34.234	74.000	40.130	PK

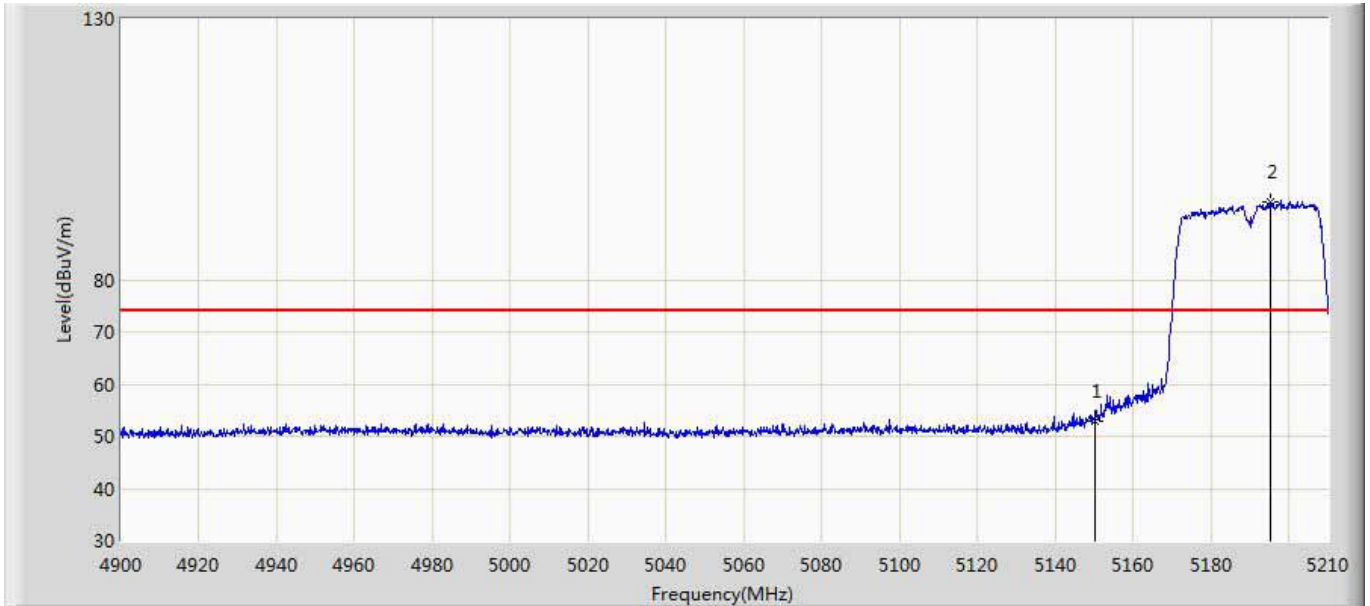
Engineer: Bruce	
Site: AC5	Time: 2016/11/17 - 20:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5190 by 802.11n40 With antenna 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	41.539	1.485	-12.461	54.000	40.054	AV
2	*	5192.950	84.856	44.726	30.856	54.000	40.130	AV

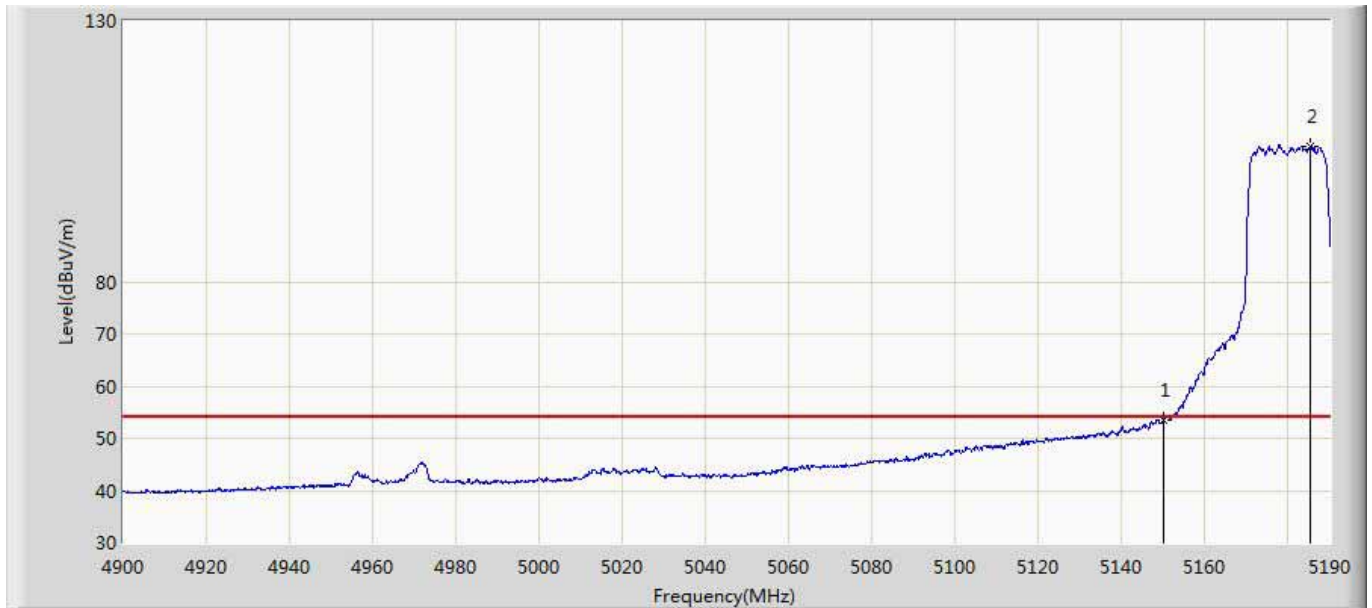


Engineer: Bruce	
Site: AC5	Time: 2016/11/17 - 20:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5190 by 802.11n40 With antenna 0+1	



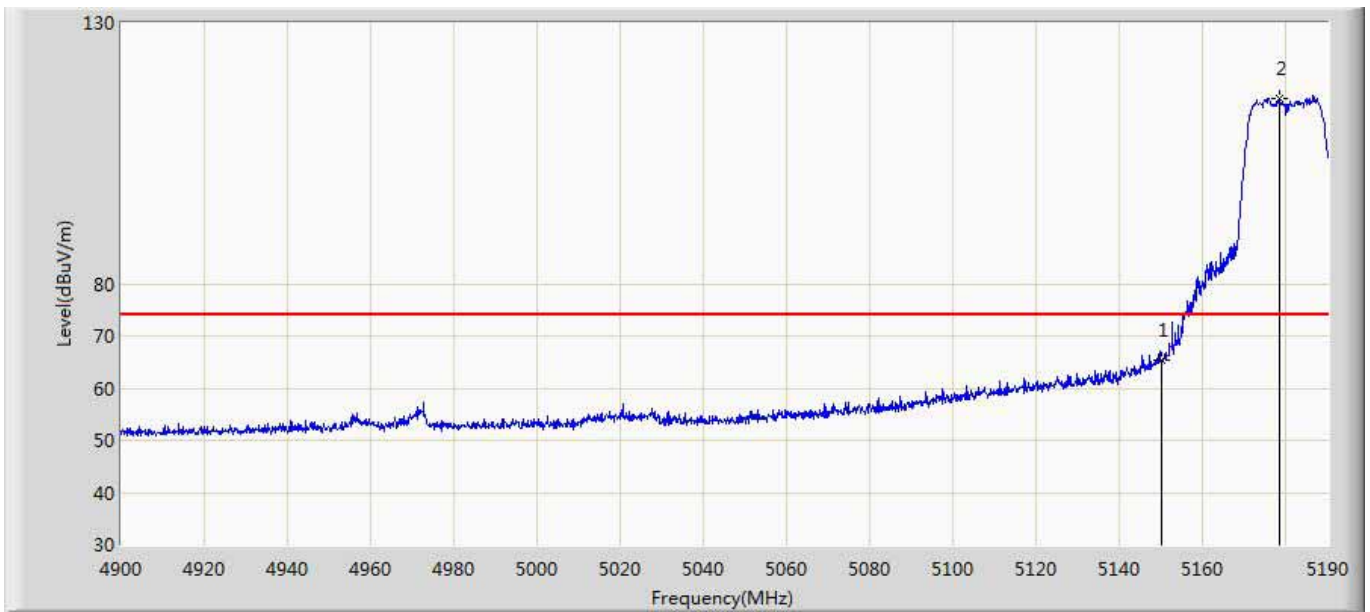
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	52.955	12.901	-21.045	74.000	40.054	PK
2	*	5195.120	94.833	54.701	20.833	74.000	40.132	PK

Engineer: Bruce	
Site: AC5	Time: 2016/11/17 - 20:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5180 by 802.11ac20 With antenna 0+1	



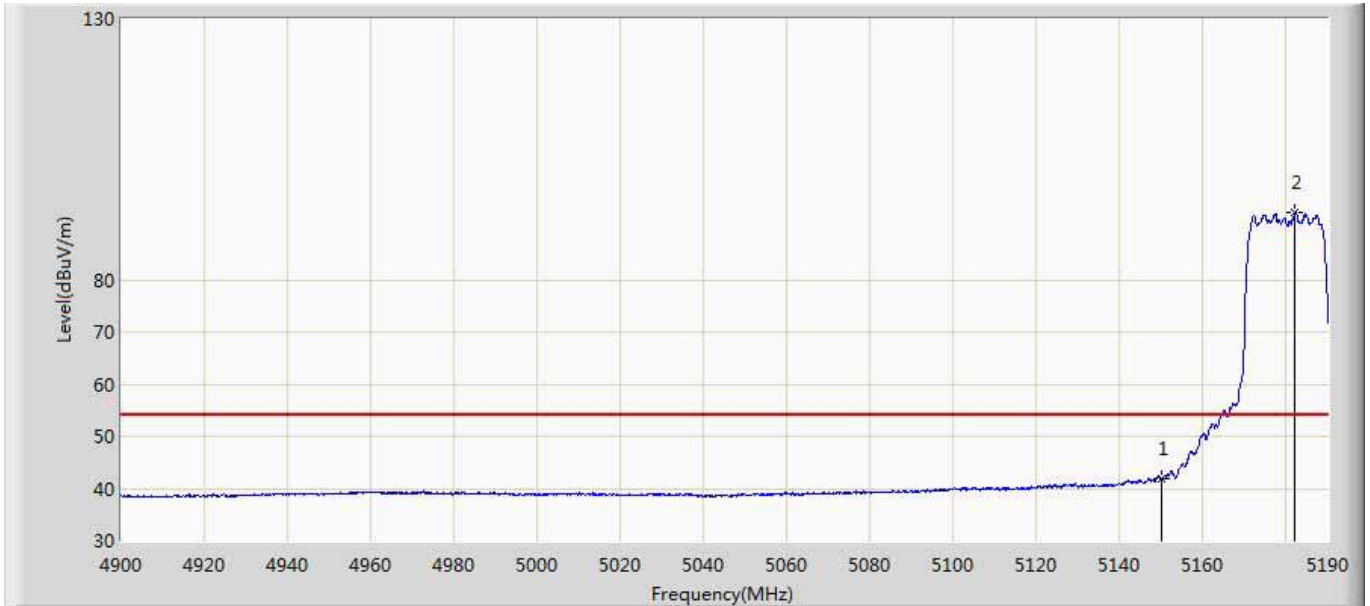
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	53.449	13.395	-0.551	54.000	40.054	AV
2	*	5185.360	105.952	65.827	51.952	54.000	40.124	AV

Profile: TP-Link 2016.11.17	Page No.: 10
Engineer: Bruce	
Site: AC5	Time: 2016/11/17 - 20:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5180 by 802.11ac20 With antenna 0+1	



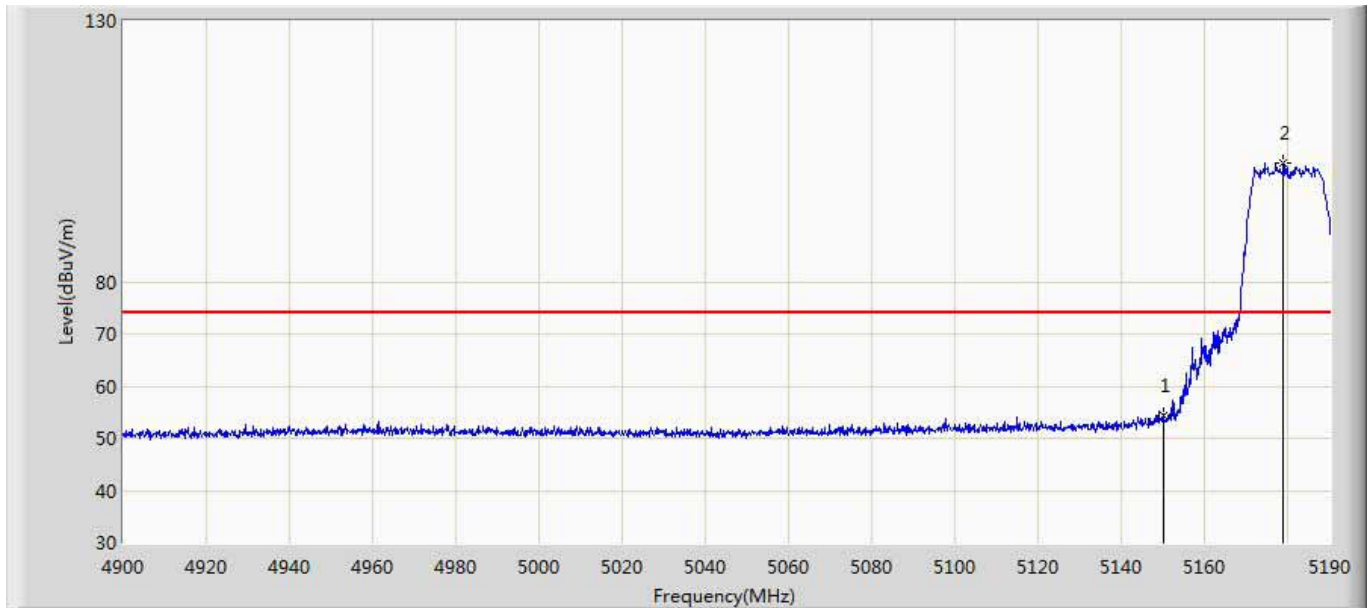
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	65.404	25.350	-8.596	74.000	40.054	PK
2	*	5178.545	115.645	75.528	41.645	74.000	40.117	PK

Engineer: Bruce	
Site: AC5	Time: 2016/11/17 - 20:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5180 by 802.11ac20 With antenna 0+1	



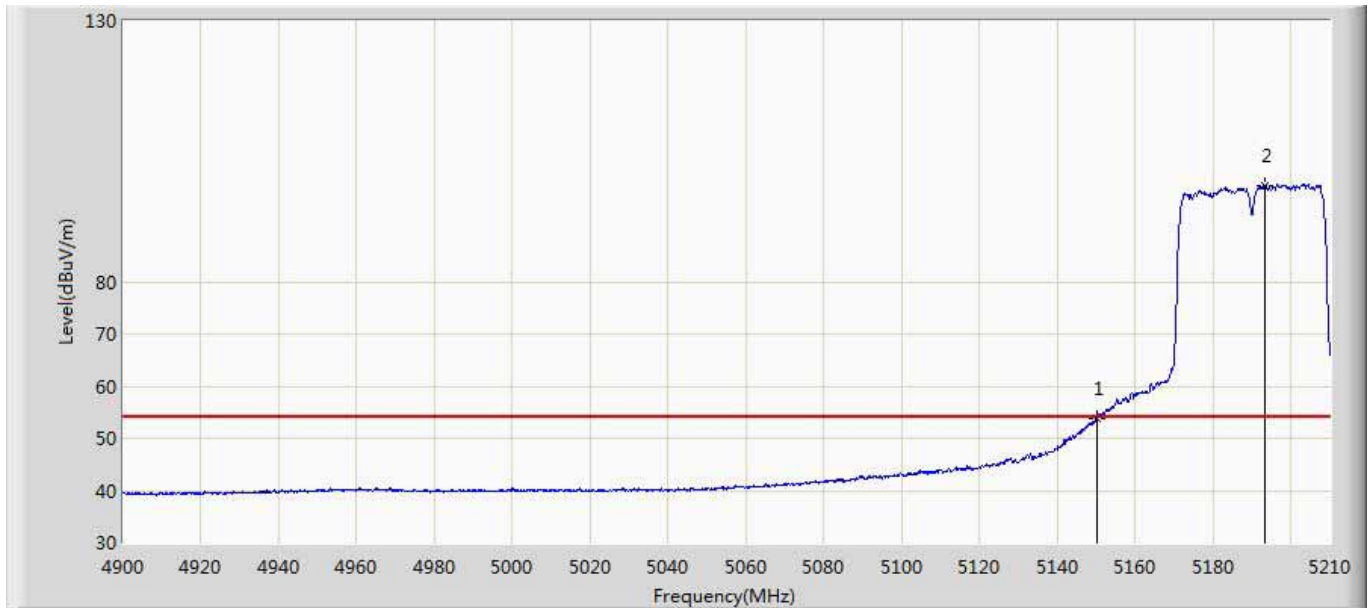
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	41.946	1.892	-12.054	54.000	40.054	AV
2	*	5182.170	92.935	52.813	38.935	54.000	40.122	AV

Engineer: Bruce	
Site: AC5	Time: 2016/11/17 - 20:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5180 by 802.11ac20 With antenna 0+1	



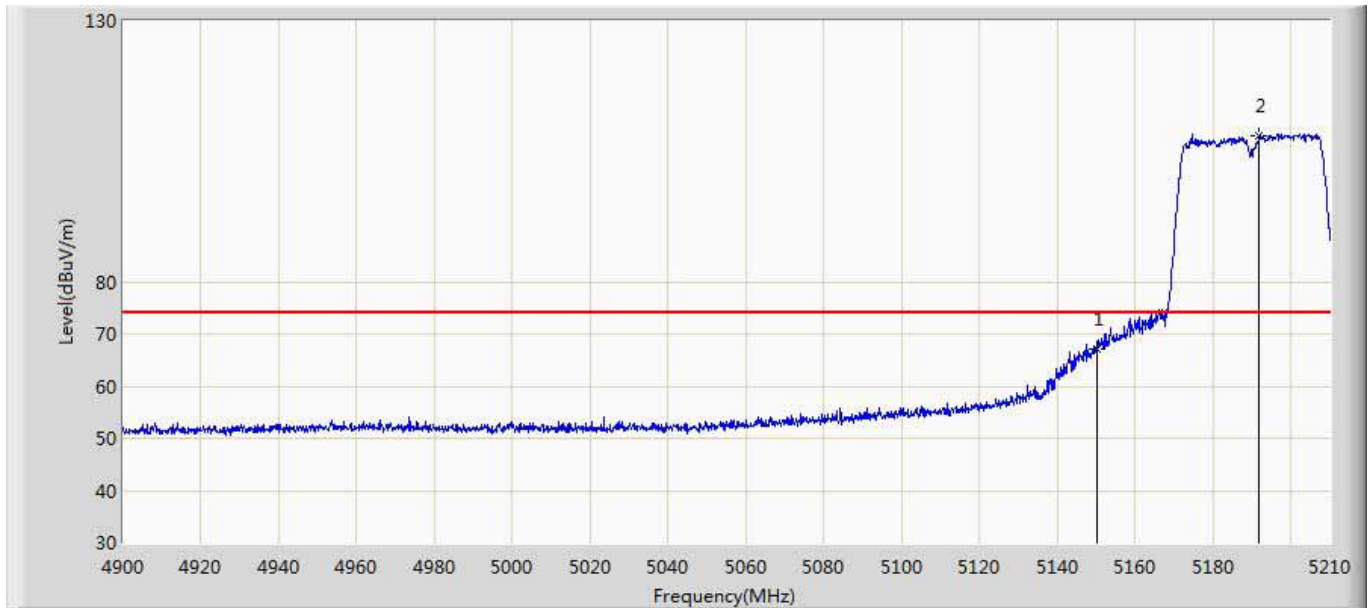
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	54.431	14.377	-19.569	74.000	40.054	PK
2	*	5178.835	102.813	62.696	28.813	74.000	40.117	PK

Engineer: Bruce	
Site: AC5	Time: 2016/11/17 - 20:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5190 by 802.11ac40 With antenna 0+1	



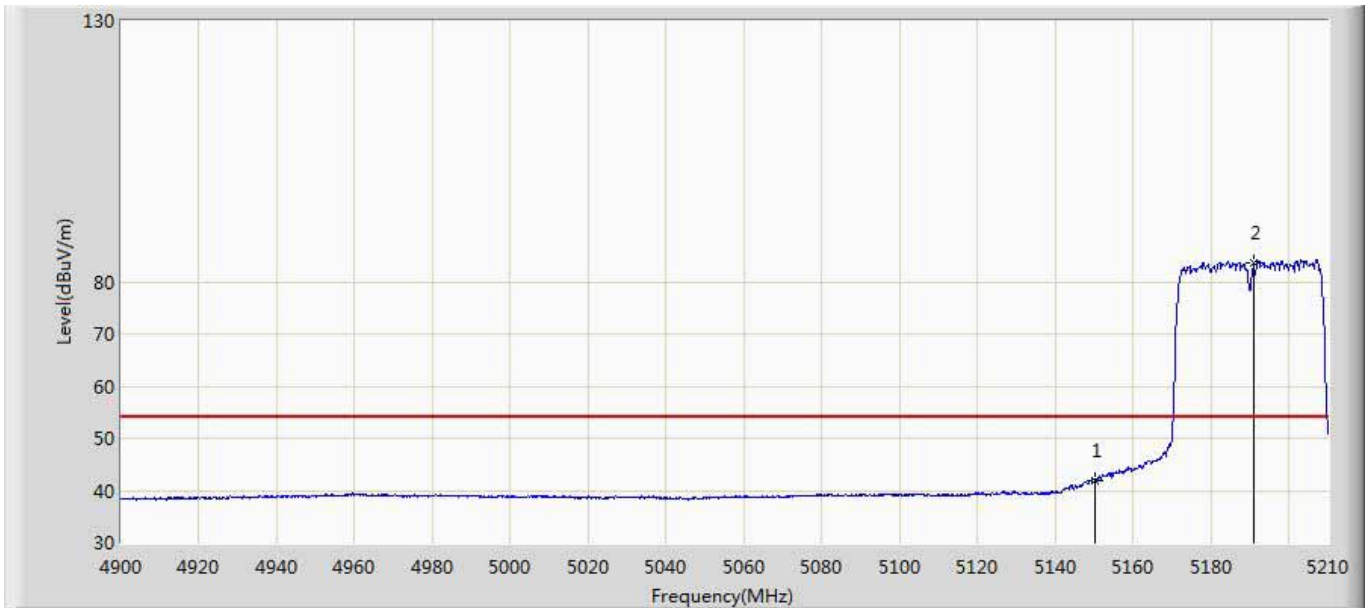
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	53.730	13.676	-0.270	54.000	40.054	AV
2	*	5193.260	98.504	58.373	44.504	54.000	40.130	AV

Engineer: Bruce	
Site: AC5	Time: 2016/11/17 - 20:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5190 by 802.11ac40 With antenna 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	67.079	27.025	-6.921	74.000	40.054	PK
2	*	5191.710	107.959	67.830	33.959	74.000	40.130	PK

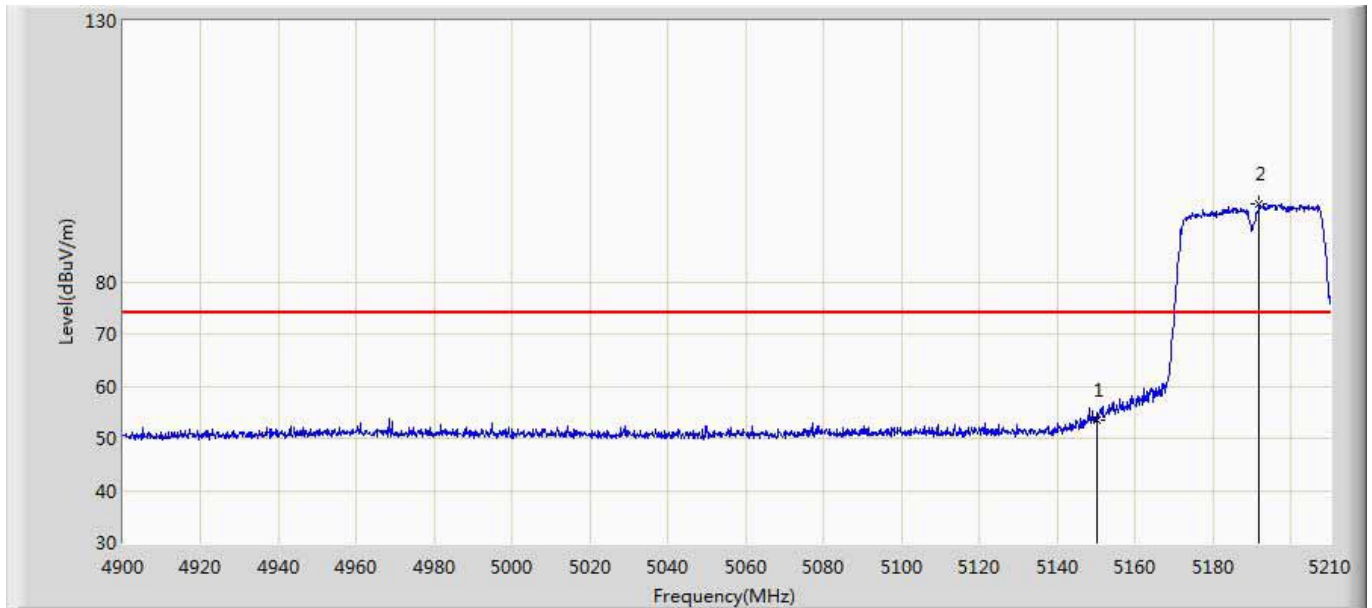
Engineer: Bruce	
Site: AC5	Time: 2016/11/17 - 20:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5190 by 802.11ac40 With antenna 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	41.807	1.753	-12.193	54.000	40.054	AV
2	*	5191.090	83.628	43.499	29.628	54.000	40.129	AV

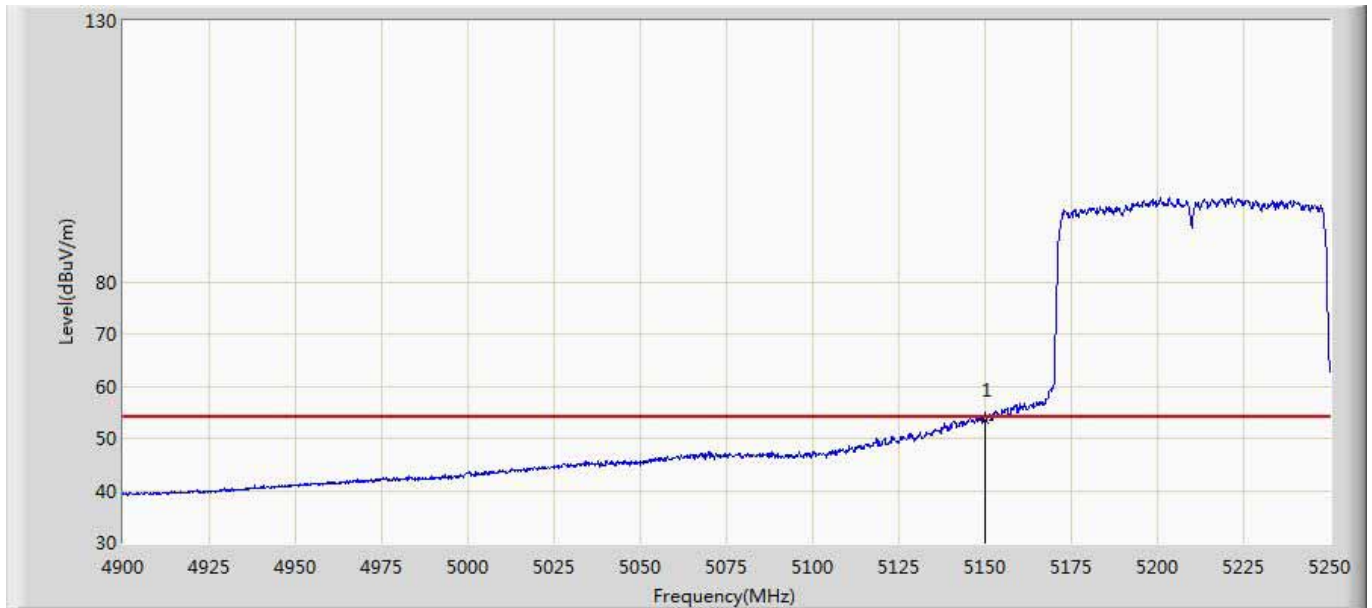


Engineer: Bruce	
Site: AC5	Time: 2016/11/17 - 20:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5190 by 802.11ac40 With antenna 0+1	



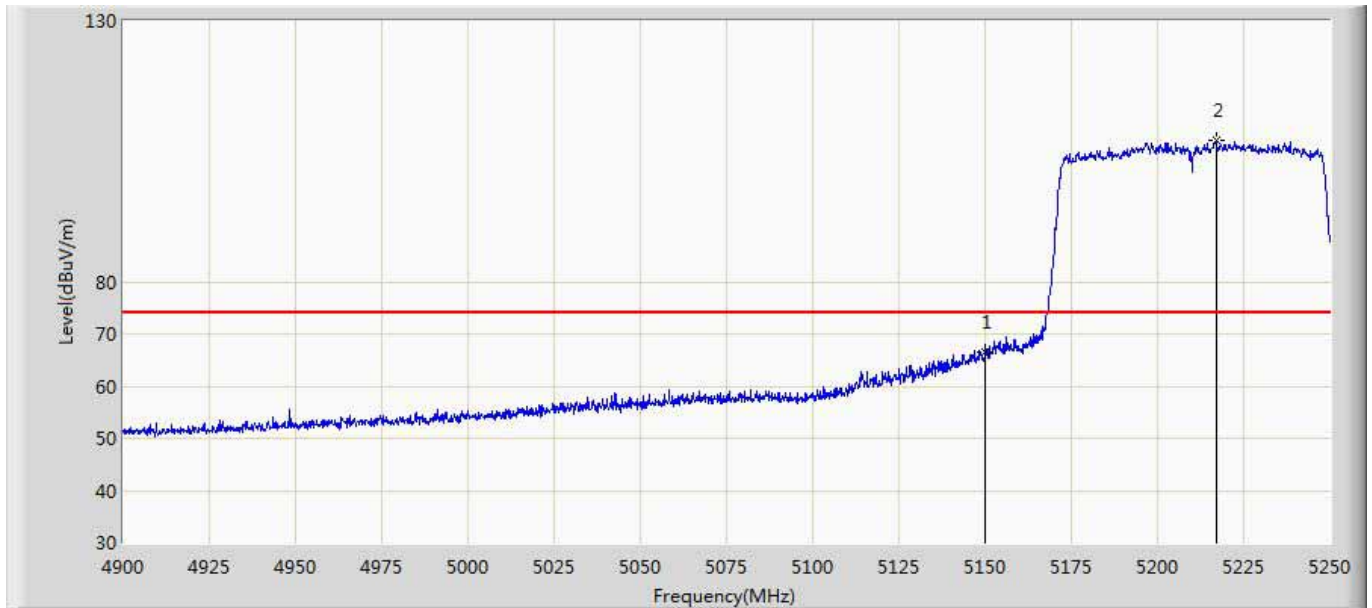
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	53.474	13.420	-20.526	74.000	40.054	PK
2	*	5191.865	94.796	54.666	20.796	74.000	40.130	PK

Engineer: Bruce	
Site: AC5	Time: 2016/11/17 - 20:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 6:Transmit at 5210 by 802.11ac80 With antenna 0+1	



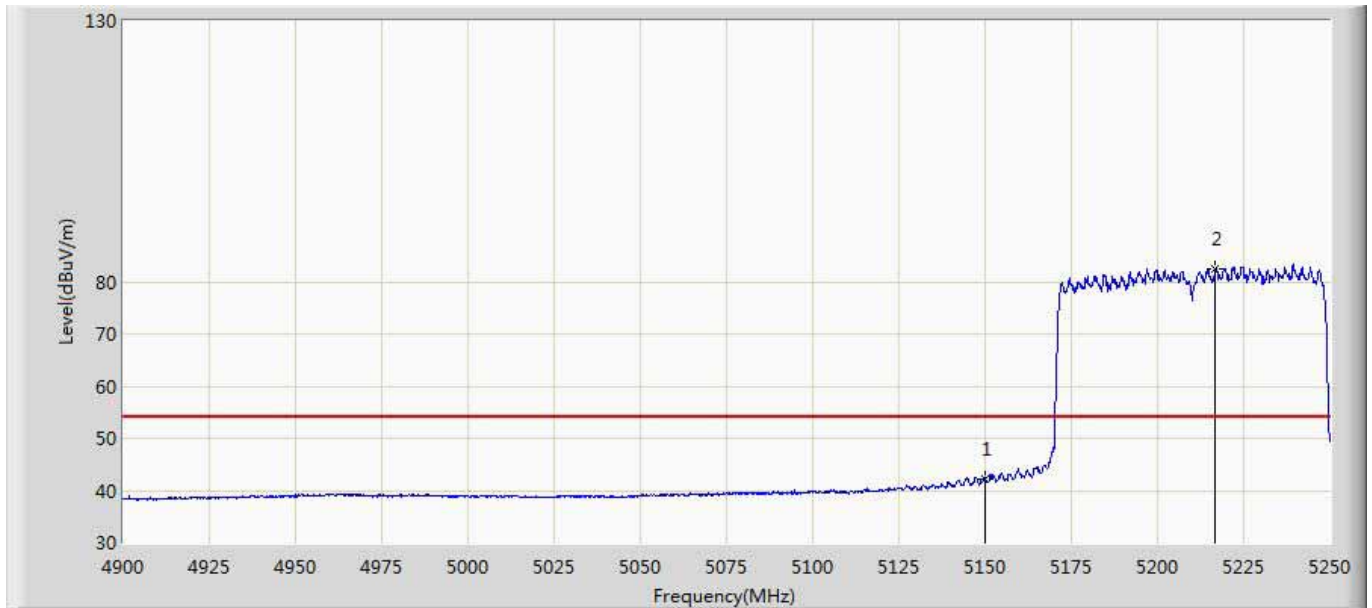
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5150.000	53.480	13.426	-0.520	54.000	40.054	AV

Engineer: Bruce	
Site: AC5	Time: 2016/11/17 - 20:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 6:Transmit at 5210 by 802.11ac80 With antenna 0+1	



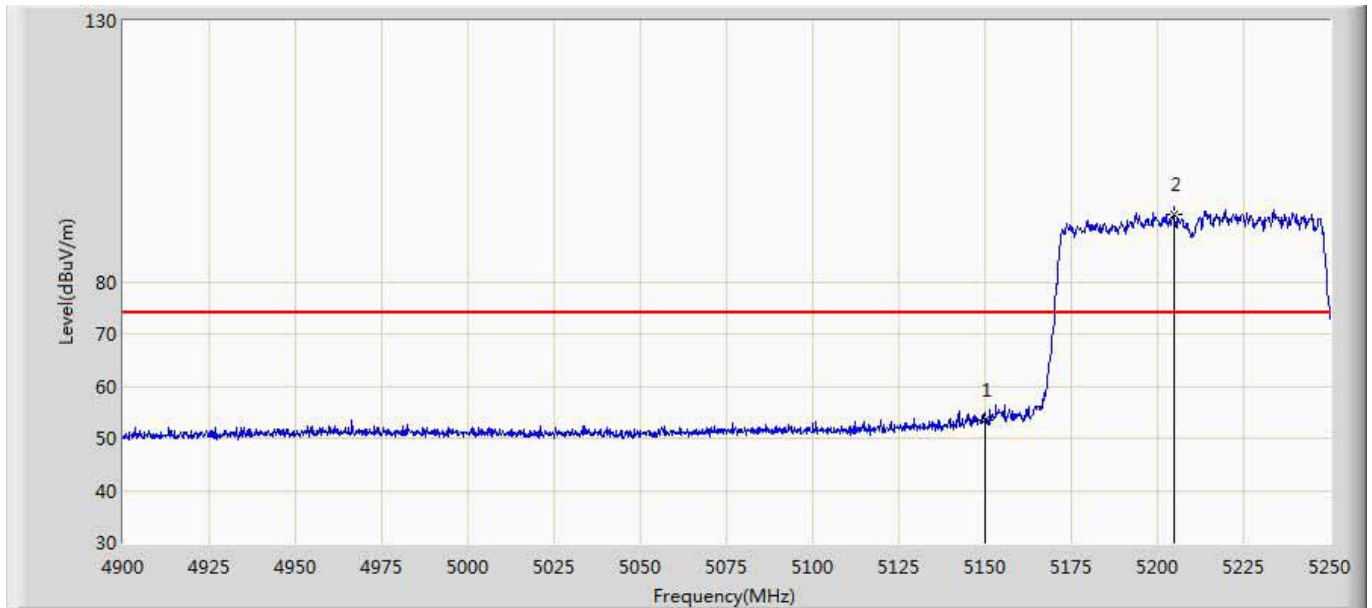
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	66.579	26.525	-7.421	74.000	40.054	PK
2	*	5216.925	107.166	67.015	33.166	74.000	40.151	PK

Engineer: Bruce	
Site: AC5	Time: 2016/11/17 - 21:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 6:Transmit at 5210 by 802.11ac80 With antenna 0+1	



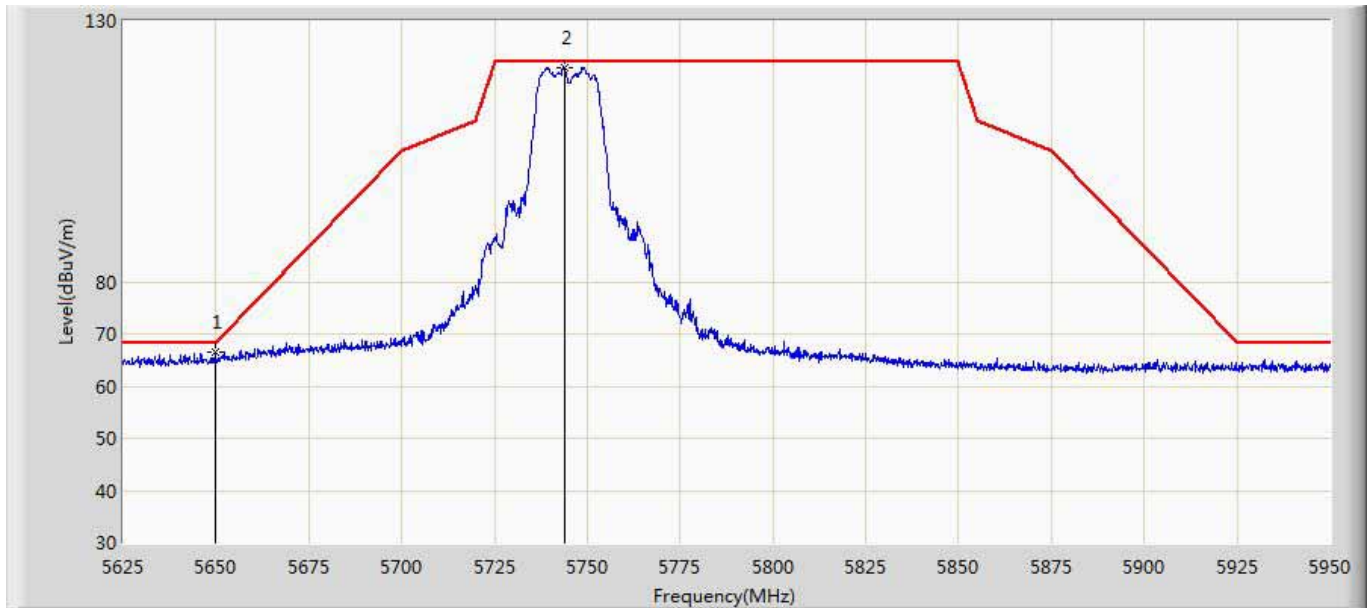
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	42.166	2.112	-11.834	54.000	40.054	AV
2	*	5216.750	82.552	42.402	28.552	54.000	40.151	AV

Engineer: Bruce	
Site: AC5	Time: 2016/11/17 - 21:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 6:Transmit at 5210 by 802.11ac80 With antenna 0+1	



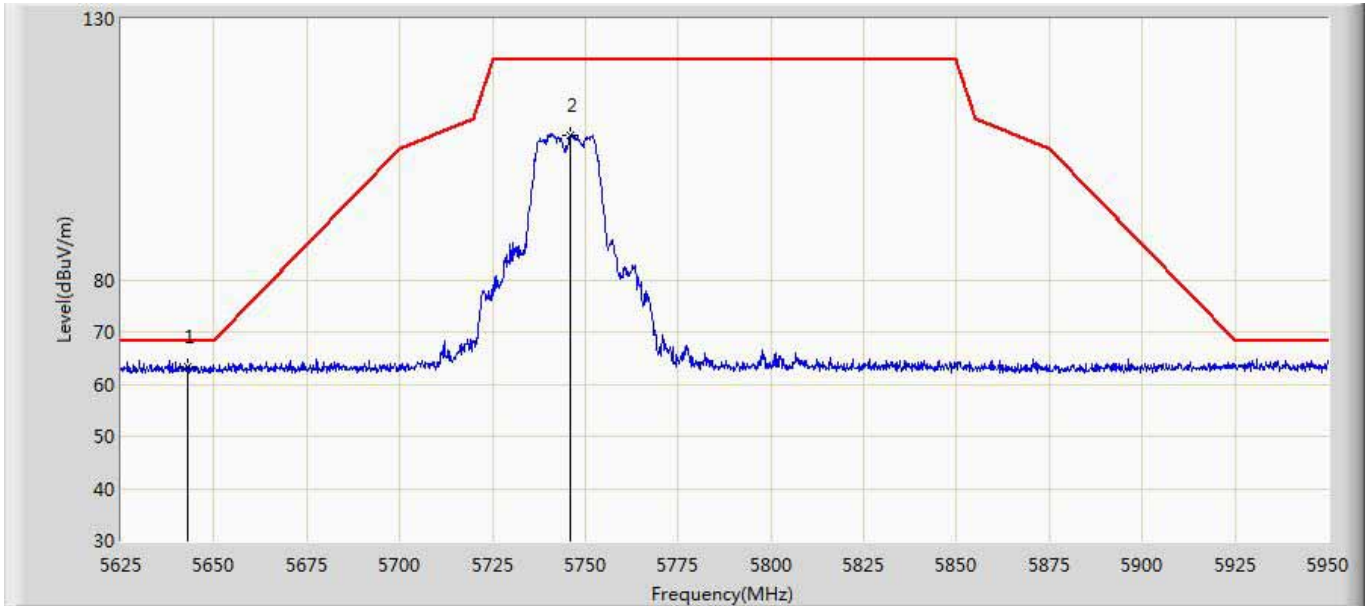
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	53.532	13.478	-20.468	74.000	40.054	PK
2	*	5204.675	92.876	52.736	18.876	74.000	40.140	PK

Engineer: Bruce	
Site: AC5	Time: 2016/11/19 - 11:25
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5745 by 802.11a With antenna 0+1	



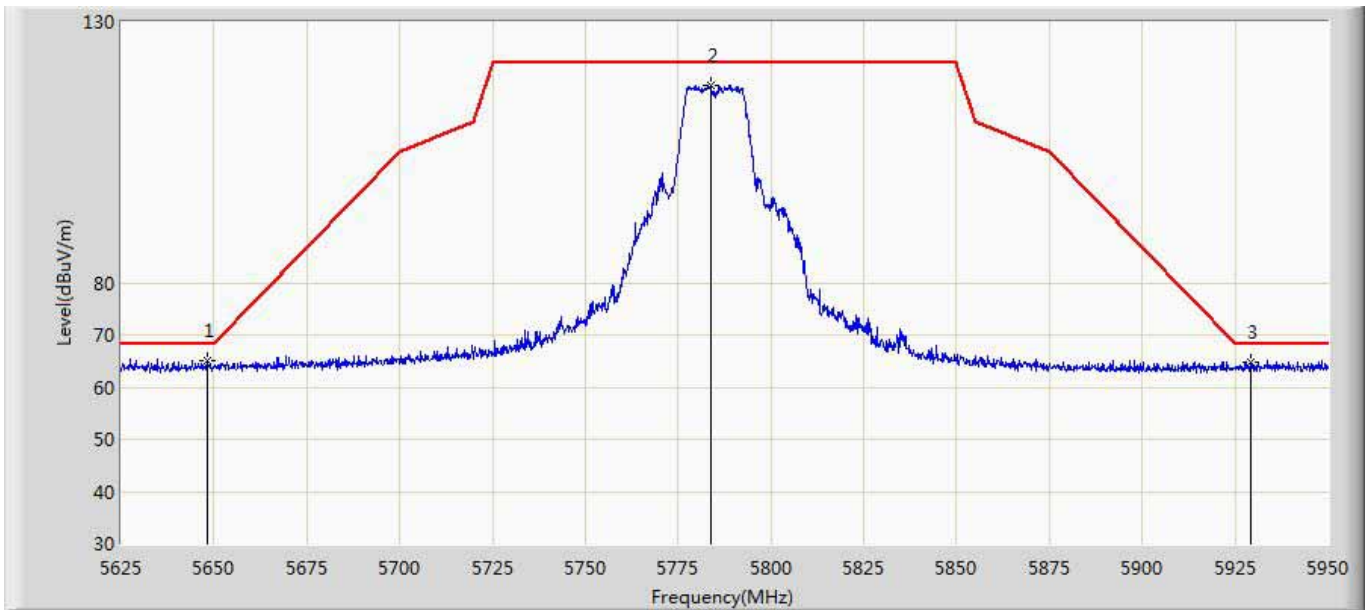
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5649.700	66.537	25.545	-1.663	68.200	40.992	PK
2	*	5743.950	120.951	79.781	-1.249	122.200	41.169	PK

Engineer: Bruce	
Site: AC5	Time: 2016/11/19 - 11:17
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5745 by 802.11a With antenna 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5643.038	63.386	22.391	-4.814	68.200	40.995	PK
2		5746.062	107.812	66.648	-14.388	122.200	41.164	PK

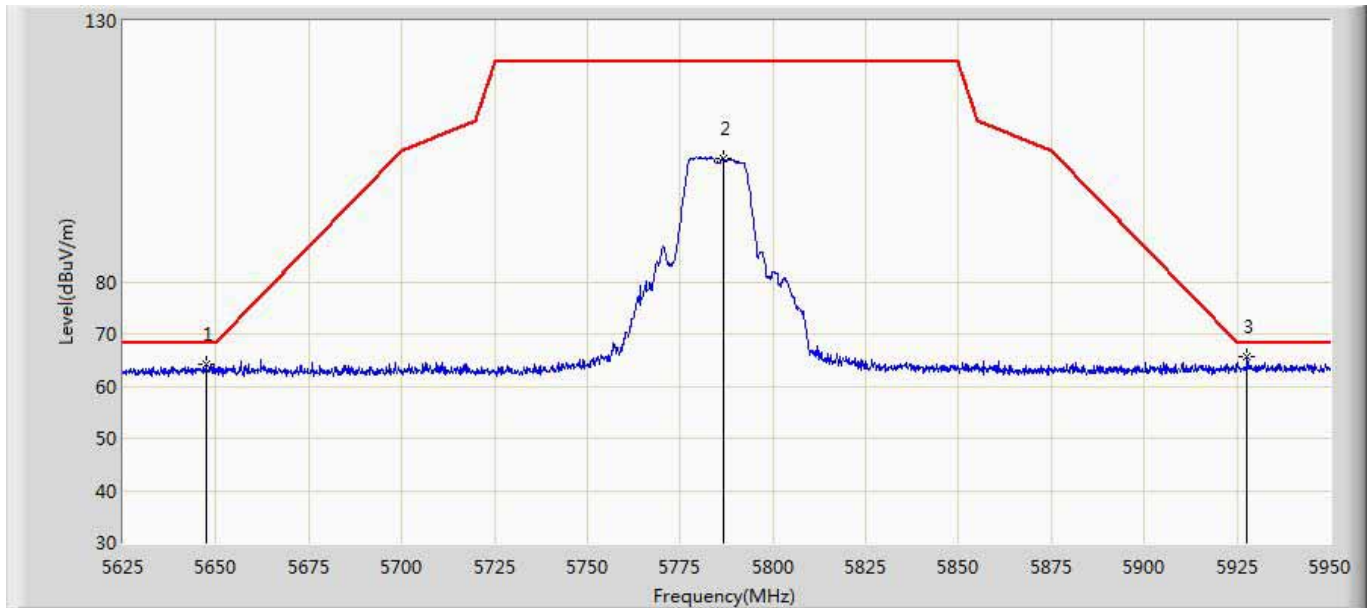
Engineer: Bruce	
Site: AC5	Time: 2016/11/19 - 12:06
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5785 by 802.11a With antenna 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5648.075	64.981	23.988	-3.219	68.200	40.993	PK
2		5783.763	117.842	76.659	-4.358	122.200	41.183	PK
3		5929.200	64.708	23.146	-3.492	68.200	41.562	PK

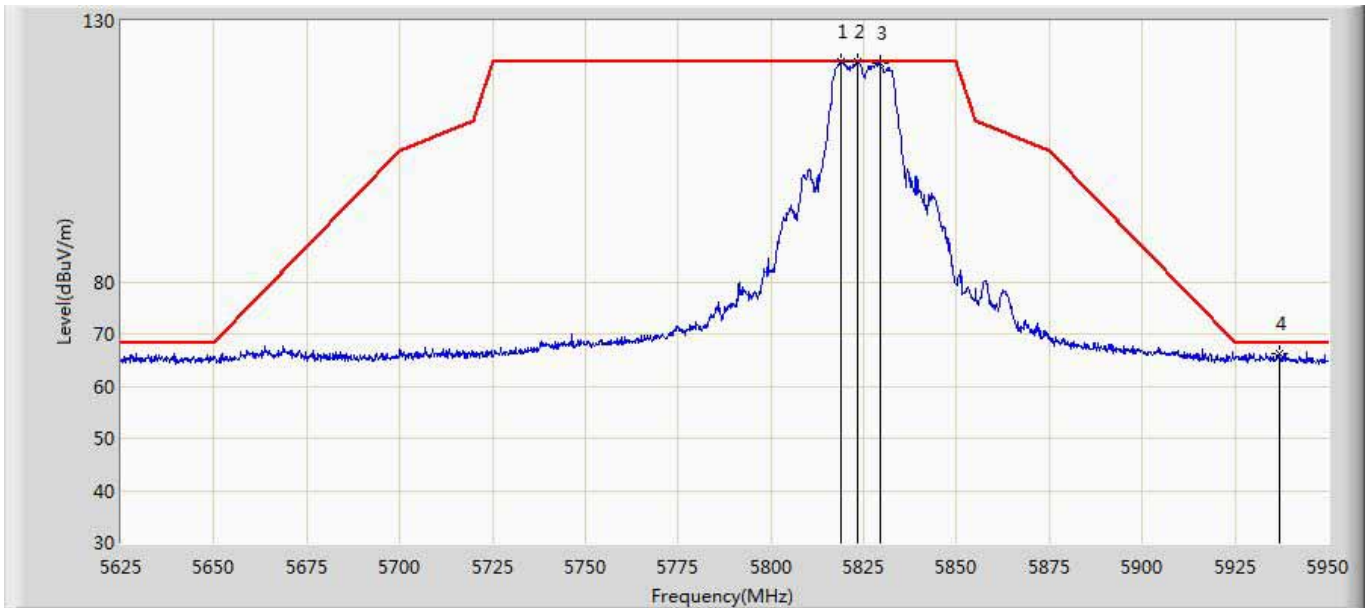


Engineer: Bruce	
Site: AC5	Time: 2016/11/19 - 12:09
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5785 by 802.11a With antenna 0+1	



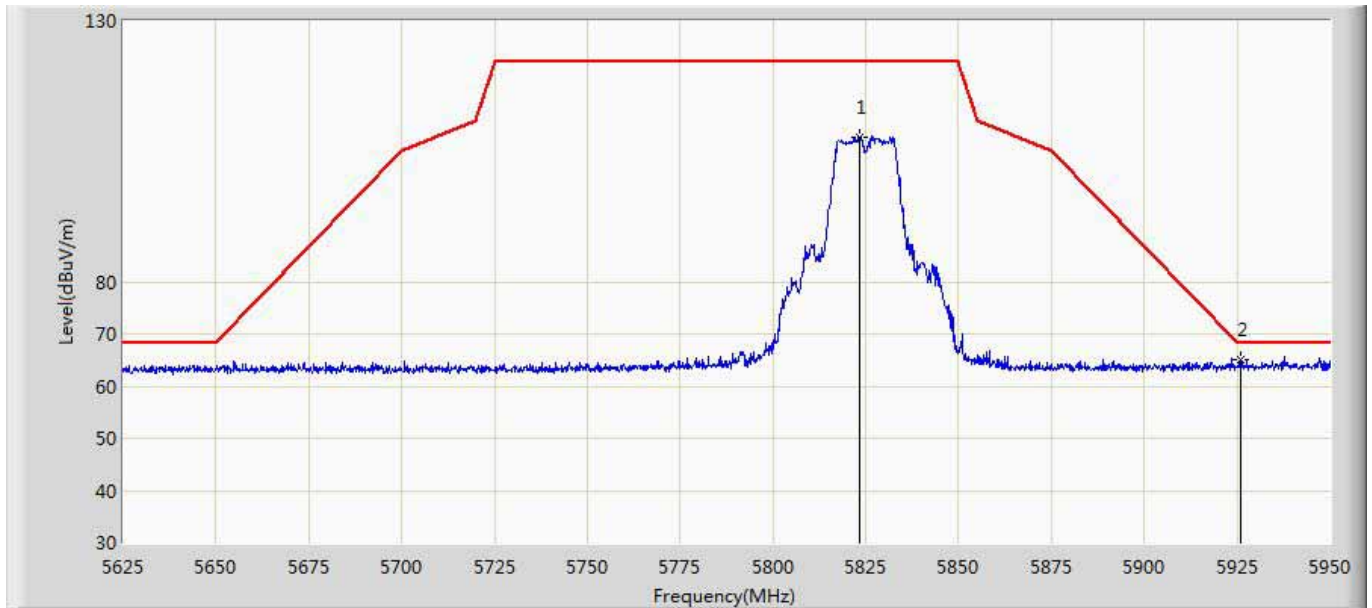
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5647.263	64.247	23.254	-3.953	68.200	40.993	PK
2		5786.525	103.494	62.310	-18.706	122.200	41.184	PK
3	*	5927.737	65.568	24.017	-2.632	68.200	41.551	PK

Engineer: Bruce	
Site: AC5	Time: 2016/11/19 - 12:29
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5825 by 802.11a With antenna 0+1	



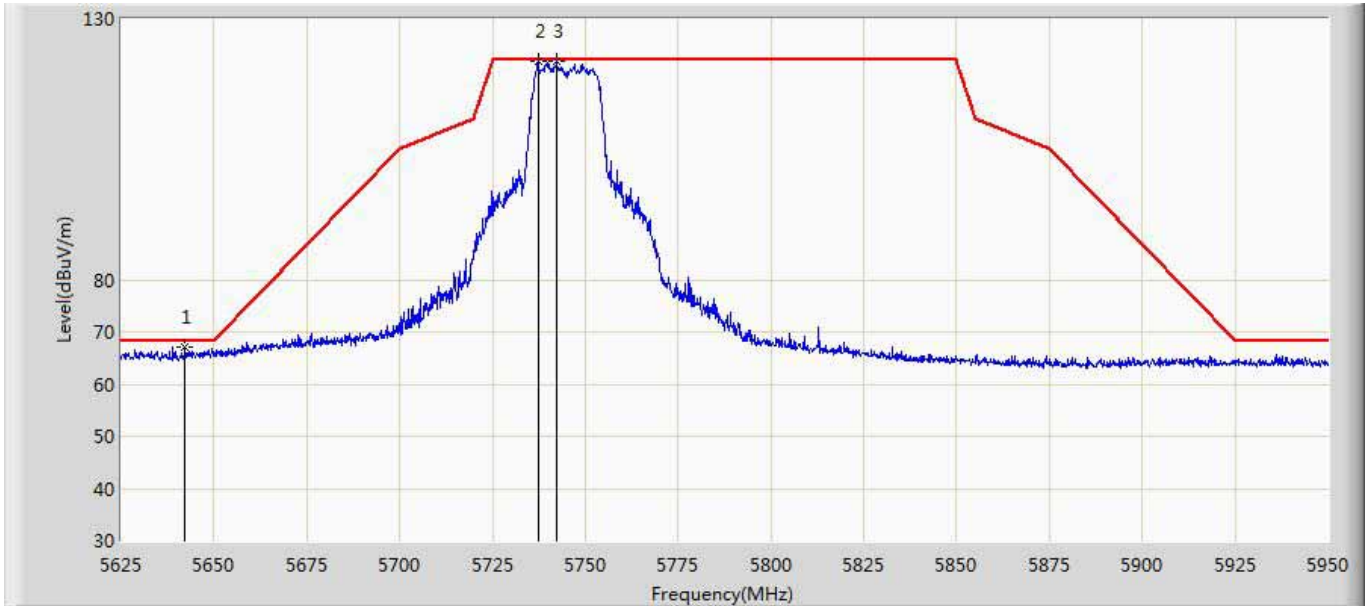
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5818.862	122.102	80.818	-0.098	122.200	41.284	PK
2	*	5823.413	122.138	80.850	-0.062	122.200	41.289	PK
3		5829.263	121.830	80.530	-0.370	122.200	41.300	PK
4		5937.163	66.271	24.698	-1.929	68.200	41.573	PK

Engineer: Bruce	
Site: AC5	Time: 2016/11/19 - 12:43
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5825 by 802.11a With antenna 0+1	



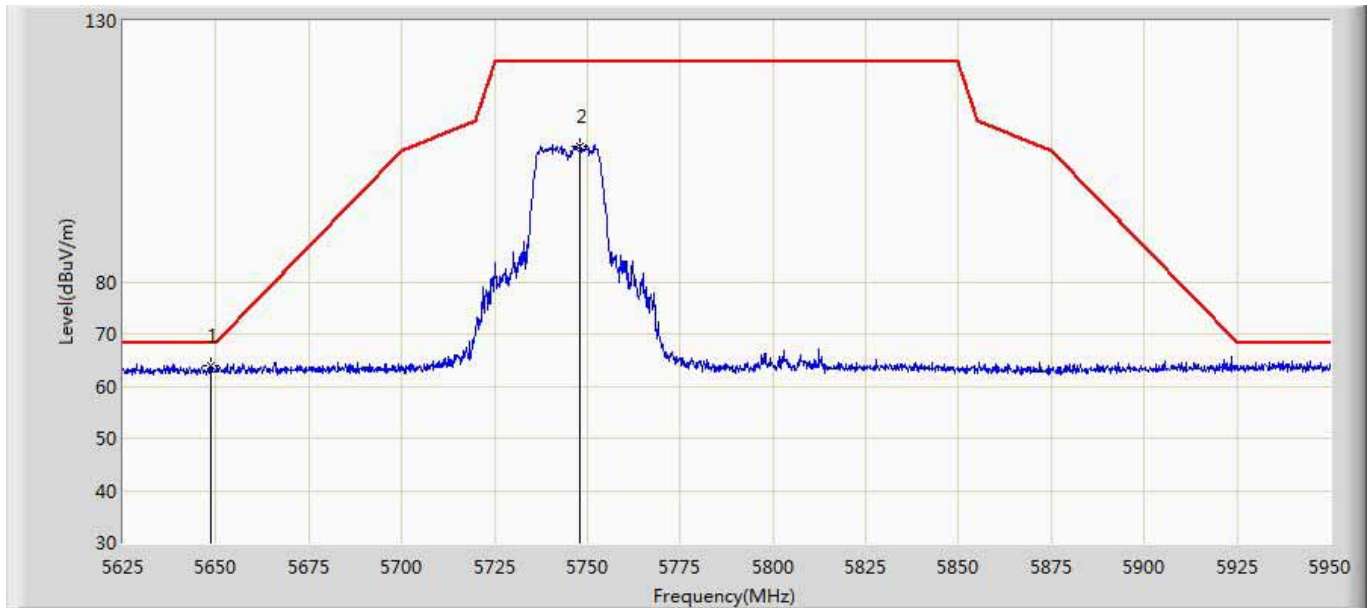
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5823.250	107.810	66.522	-14.390	122.200	41.288	PK
2	*	5926.112	65.014	23.476	-3.186	68.200	41.539	PK

Engineer: Bruce	
Site: AC5	Time: 2016/11/19 - 11:31
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5745 by 802.11n20 With antenna 0+1	



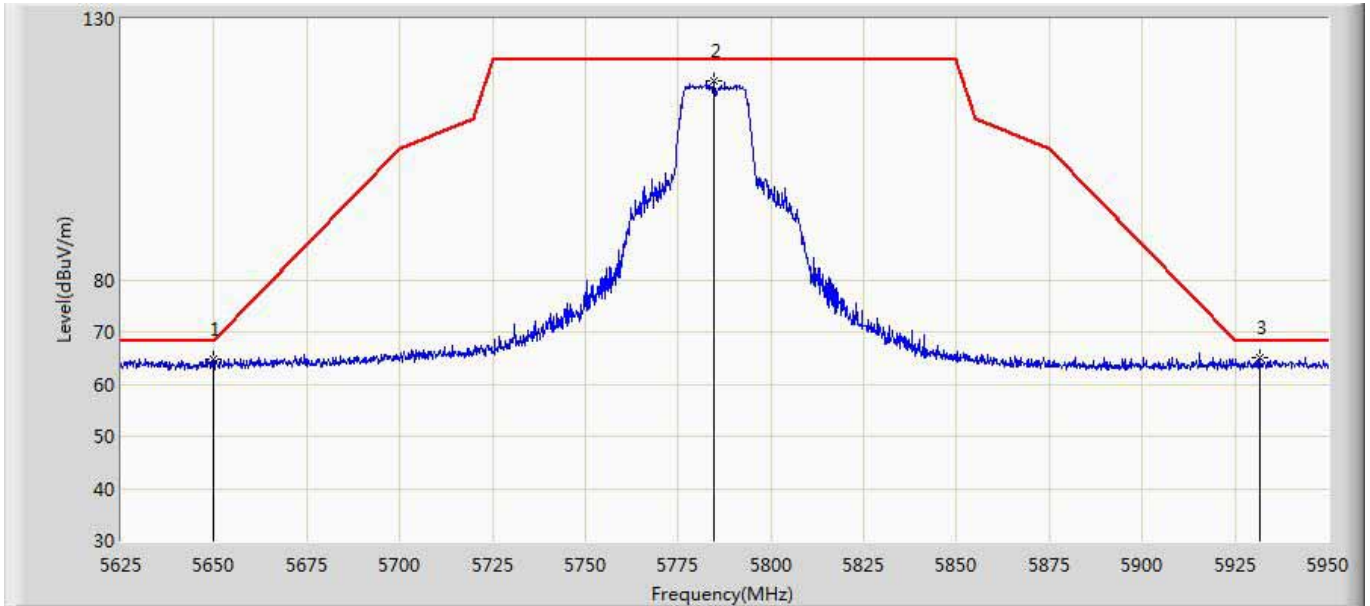
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5642.225	67.032	26.037	-1.168	68.200	40.996	PK
2	*	5737.288	121.856	80.715	-0.344	122.200	41.141	PK
3		5742.487	121.790	80.621	-0.410	122.200	41.169	PK

Engineer: Bruce	
Site: AC5	Time: 2016/11/19 - 11:36
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5745 by 802.11n20 With antenna 0+1	



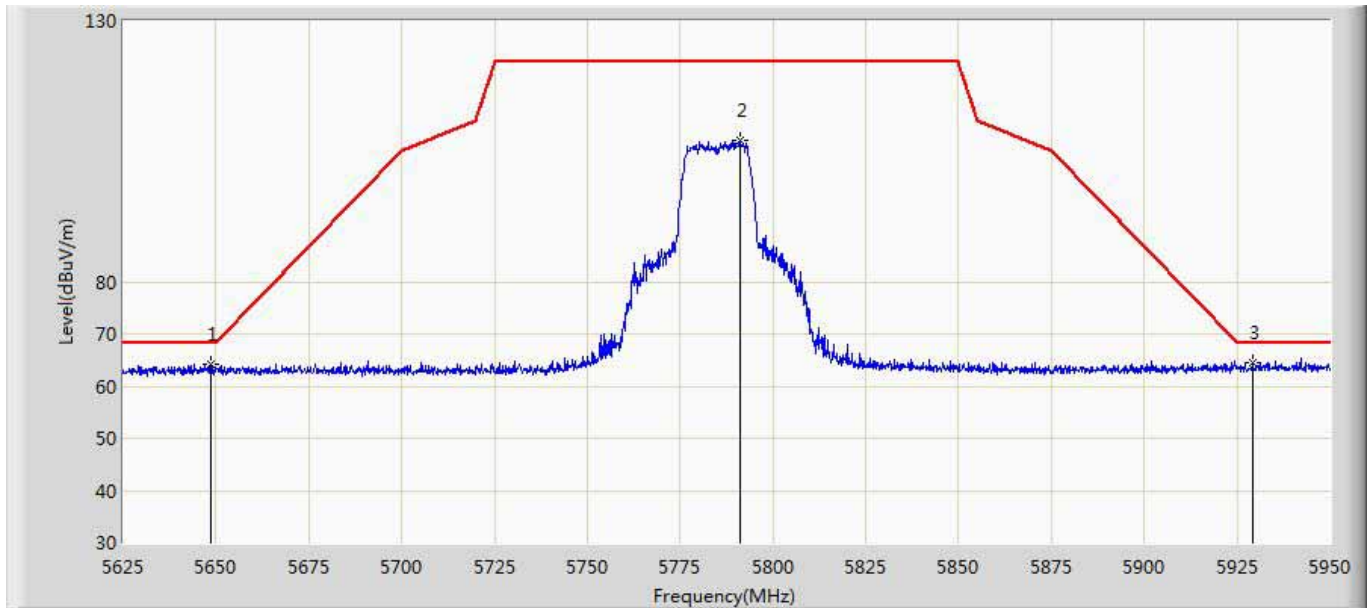
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5648.562	63.852	22.860	-4.348	68.200	40.993	PK
2		5748.013	106.010	64.851	-16.190	122.200	41.159	PK

Engineer: Bruce	
Site: AC5	Time: 2016/11/19 - 12:11
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5785 by 802.11n20 With antenna 0+1	



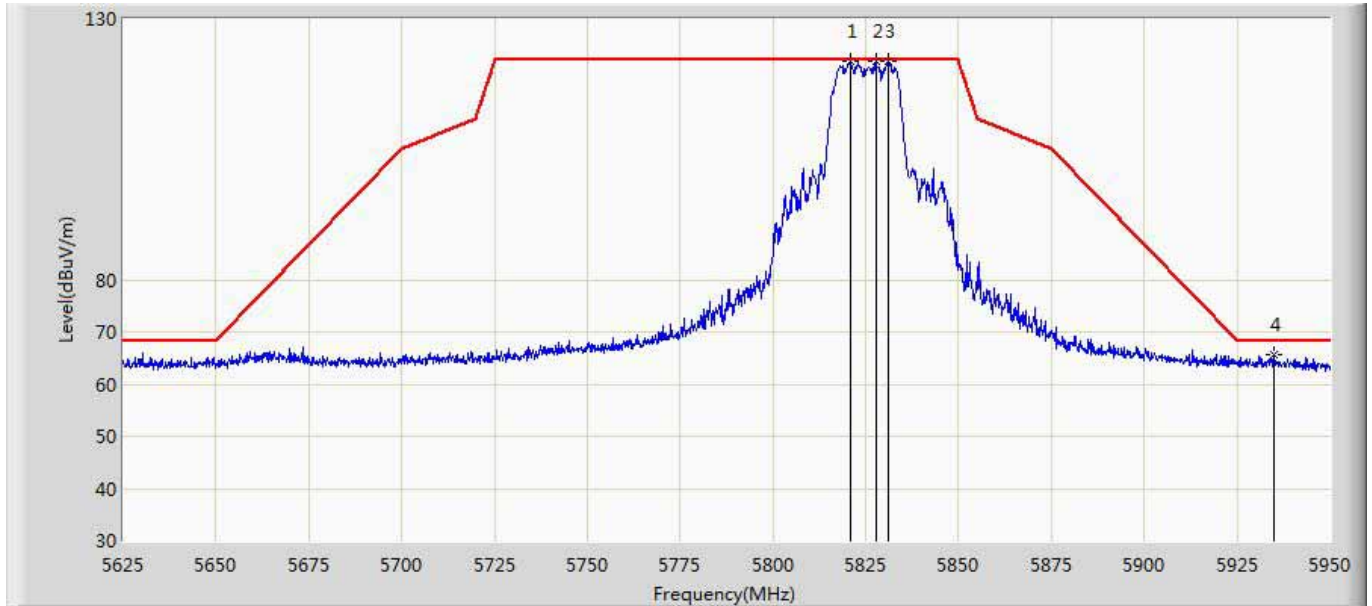
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5650.025	64.916	23.924	-3.303	68.218	40.992	PK
2		5784.575	118.246	77.063	-3.954	122.200	41.183	PK
3	*	5931.800	65.206	23.637	-2.994	68.200	41.570	PK

Engineer: Bruce	
Site: AC5	Time: 2016/11/19 - 12:14
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5785 by 802.11n20 With antenna 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5648.562	64.179	23.187	-4.021	68.200	40.993	PK
2		5791.237	107.164	65.977	-15.036	122.200	41.186	PK
3	*	5929.200	64.407	22.845	-3.793	68.200	41.562	PK

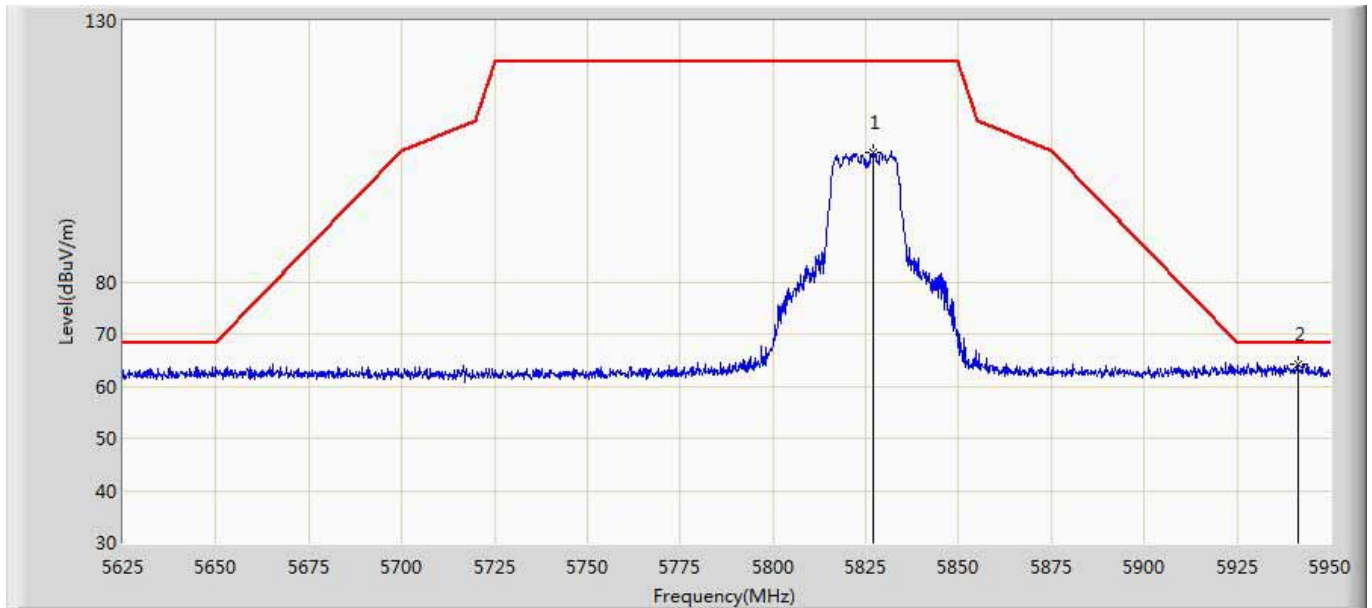
Engineer: Bruce	
Site: AC5	Time: 2016/11/19 - 12:47
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5825 by 802.11n20 With antenna 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5820.812	121.965	80.679	-0.235	122.200	41.286	PK
2		5827.800	121.864	80.572	-0.336	122.200	41.292	PK
3		5831.050	121.918	80.608	-0.282	122.200	41.310	PK
4		5934.888	65.615	24.044	-2.585	68.200	41.572	PK

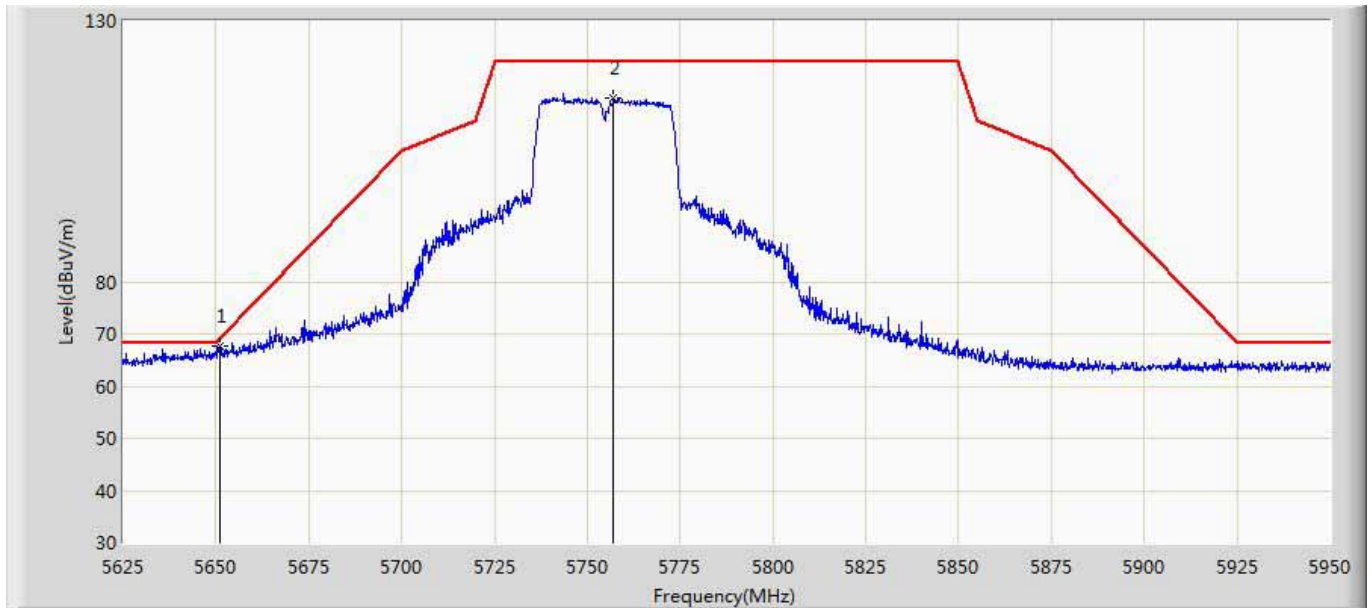


Engineer: Bruce	
Site: AC5	Time: 2016/11/19 - 12:54
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 5825 by 802.11n20 With antenna 0+1	



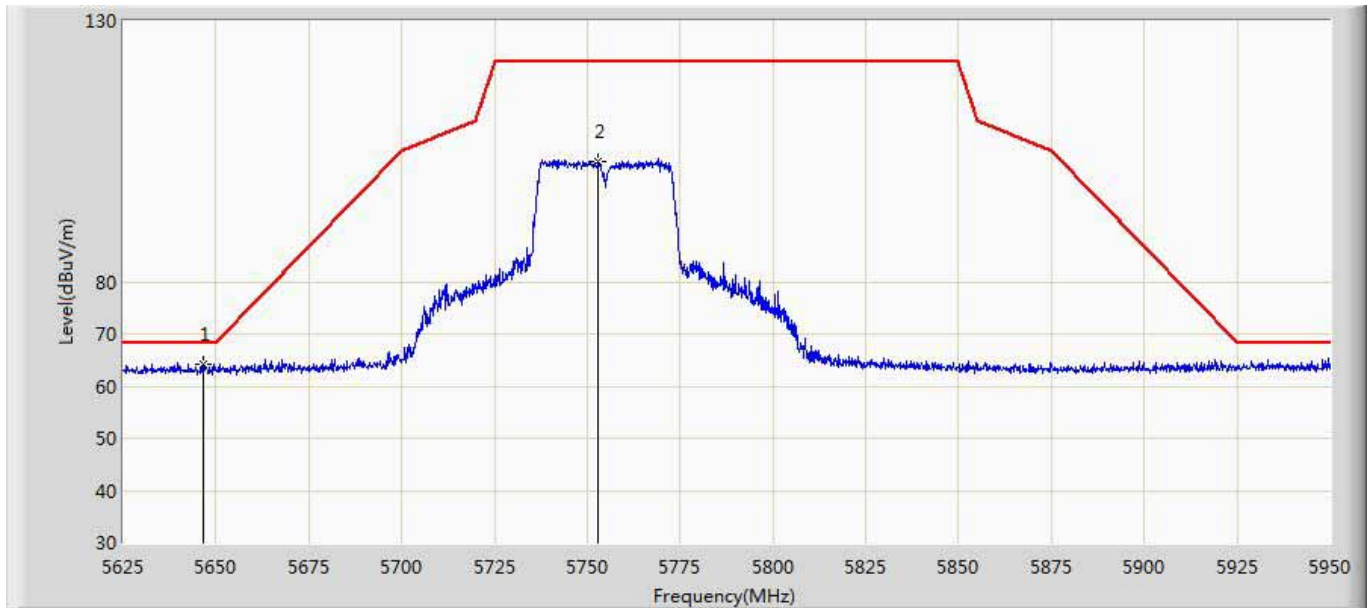
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5827.150	104.740	63.449	-17.460	122.200	41.291	PK
2	*	5941.388	64.075	22.499	-4.125	68.200	41.576	PK

Engineer: Bruce	
Site: AC5	Time: 2016/11/19 - 11:46
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5755 by 802.11n40 With antenna 0+1	



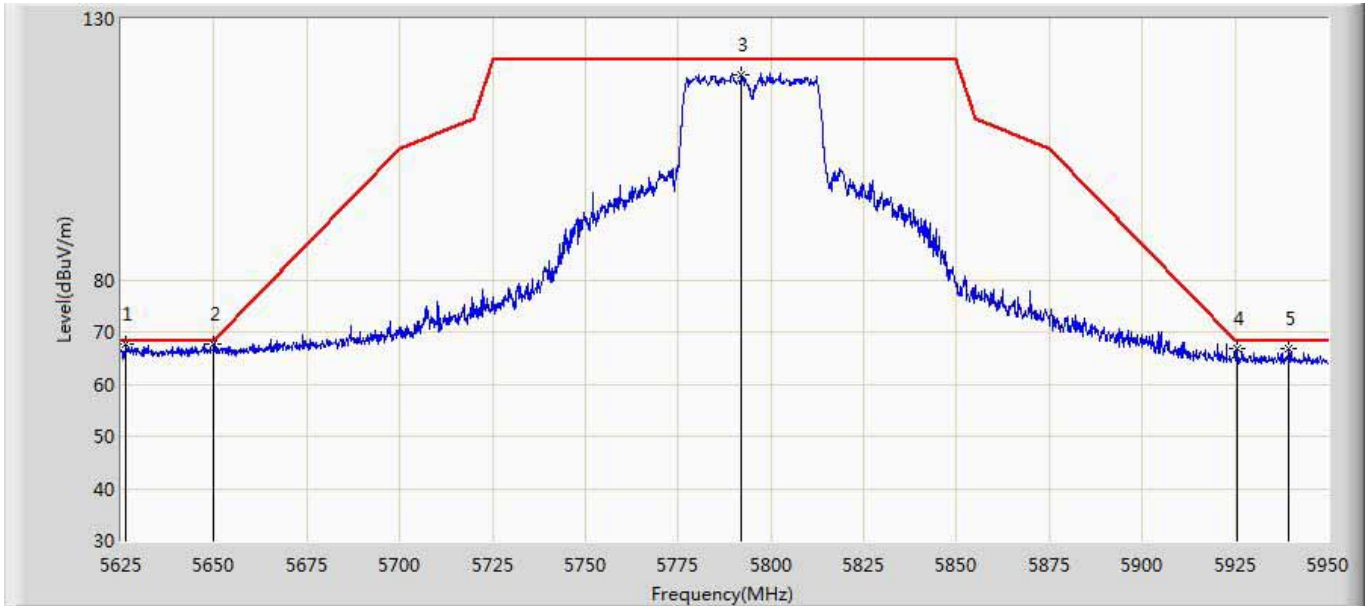
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5651.000	67.824	26.833	-1.116	68.940	40.991	PK
2		5757.112	115.132	73.997	-7.068	122.200	41.136	PK

Engineer: Bruce	
Site: AC5	Time: 2016/11/19 - 11:51
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5755 by 802.11n40 With antenna 0+1	



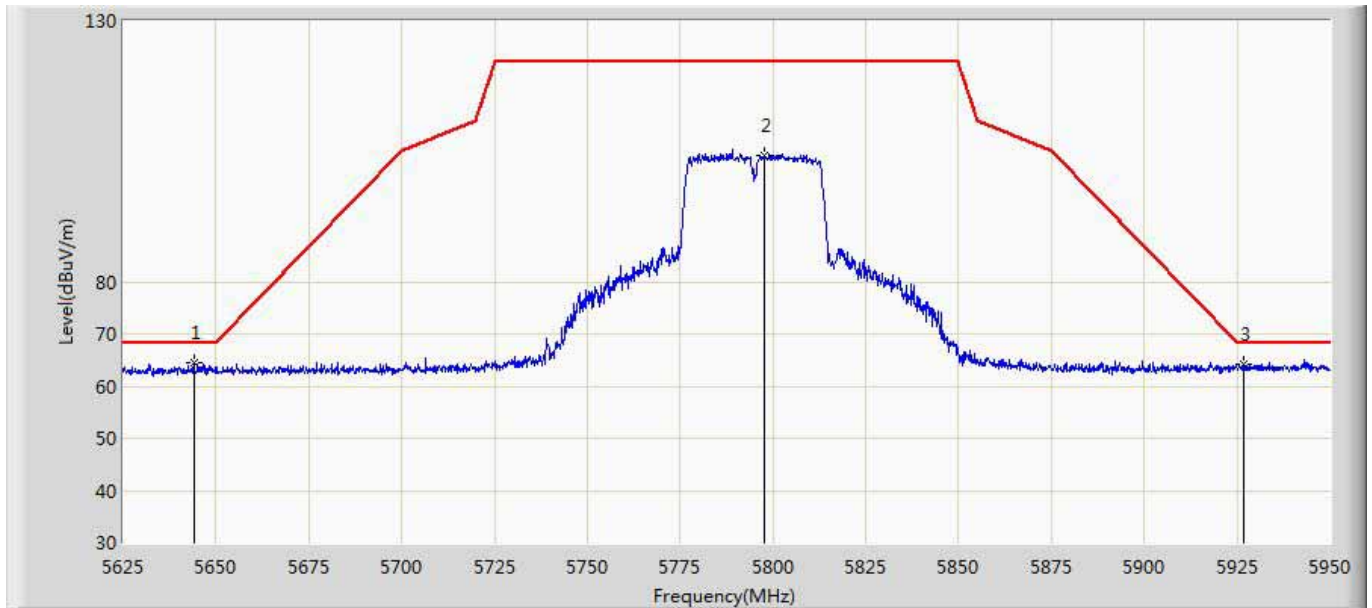
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5646.612	64.346	23.353	-3.854	68.200	40.993	PK
2		5753.050	102.929	61.783	-19.271	122.200	41.146	PK

Engineer: Bruce	
Site: AC5	Time: 2016/11/19 - 12:21
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5795 by 802.11n40 With antenna 0+1	



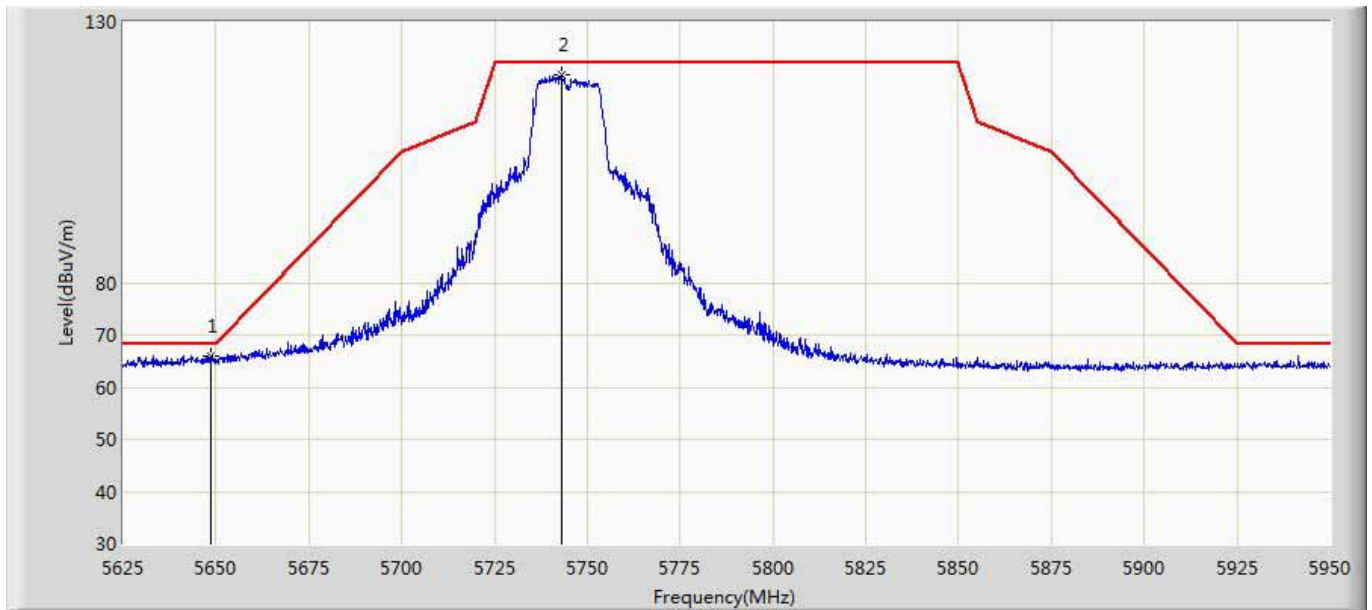
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5626.300	67.565	26.573	-0.635	68.200	40.992	PK
2	*	5649.862	67.740	26.748	-0.460	68.200	40.992	PK
3		5792.050	119.299	78.112	-2.901	122.200	41.187	PK
4		5925.625	66.820	25.286	-1.380	68.200	41.534	PK
5		5939.437	66.758	25.183	-1.442	68.200	41.574	PK

Engineer: Bruce	
Site: AC5	Time: 2016/11/19 - 12:23
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 5795 by 802.11n40 With antenna 0+1	



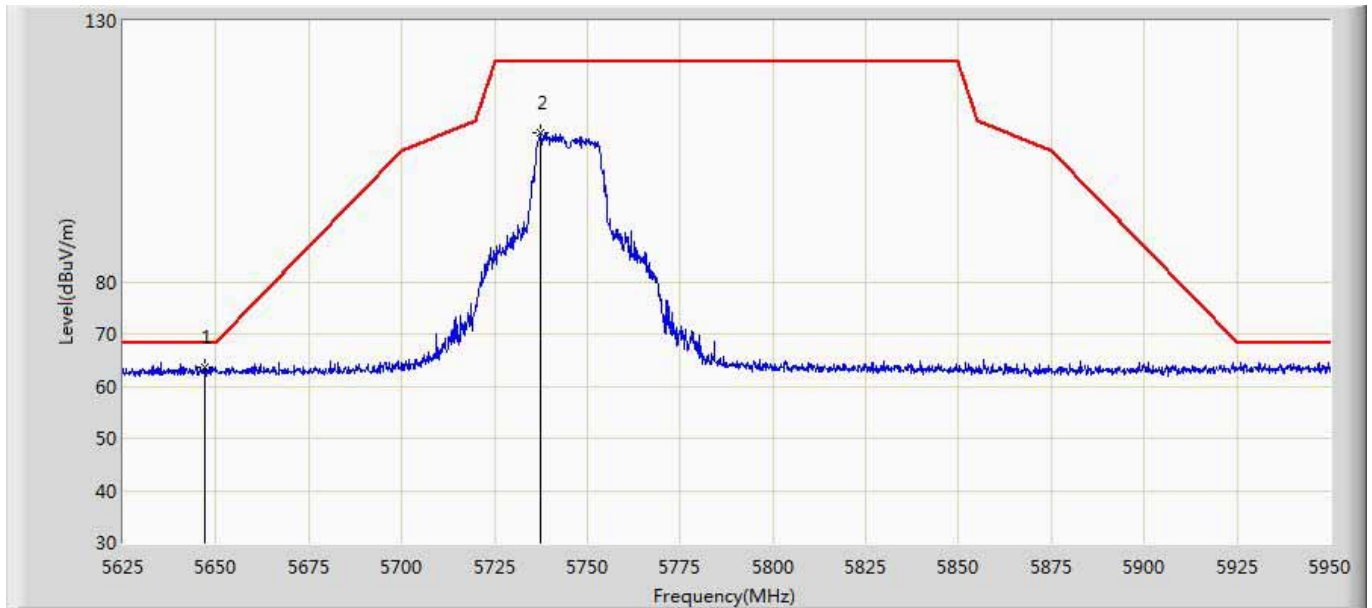
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5644.013	64.387	23.392	-3.813	68.200	40.994	PK
2		5797.737	104.181	62.973	-18.019	122.200	41.208	PK
3		5926.925	64.217	22.673	-3.983	68.200	41.545	PK

Engineer: Bruce	
Site: AC5	Time: 2016/11/19 - 11:38
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 4: Transmit at 5745 by 802.11ac20 With antenna 0+1	



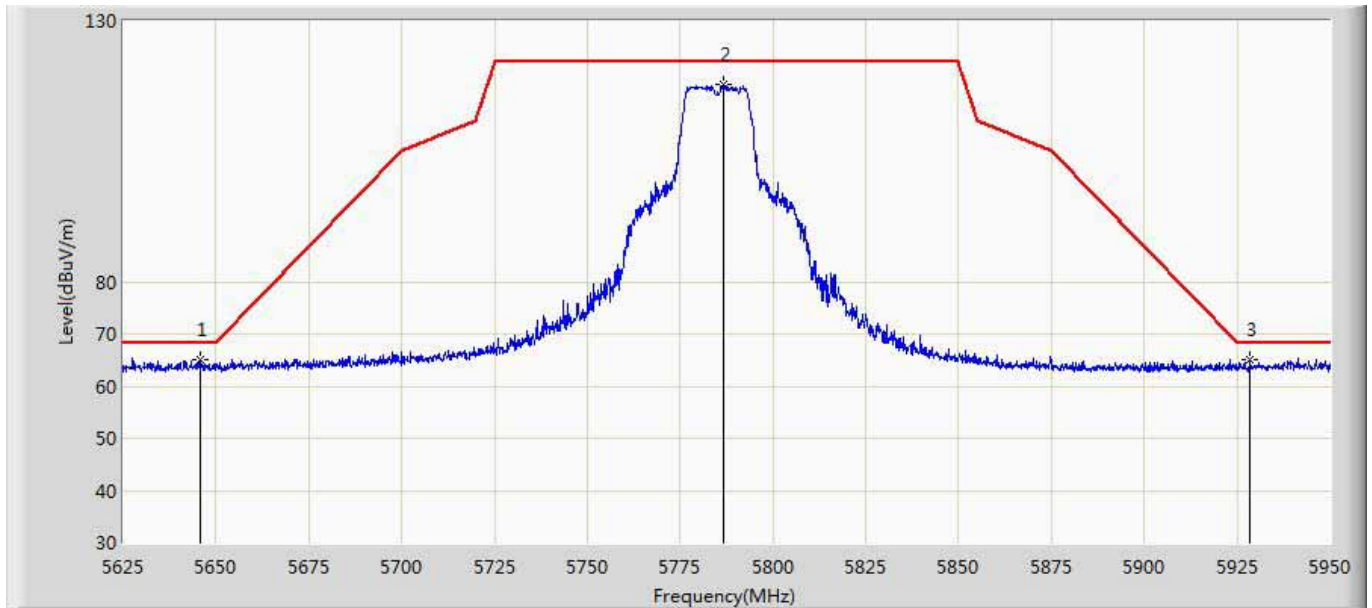
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5648.562	66.038	25.046	-2.162	68.200	40.993	PK
2		5743.300	119.778	78.607	-2.422	122.200	41.171	PK

Engineer: Bruce	
Site: AC5	Time: 2016/11/19 - 11:44
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 4: Transmit at 5745 by 802.11ac20 With antenna 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5647.100	63.724	22.731	-4.476	68.200	40.994	PK
2		5737.288	108.596	67.455	-13.604	122.200	41.141	PK

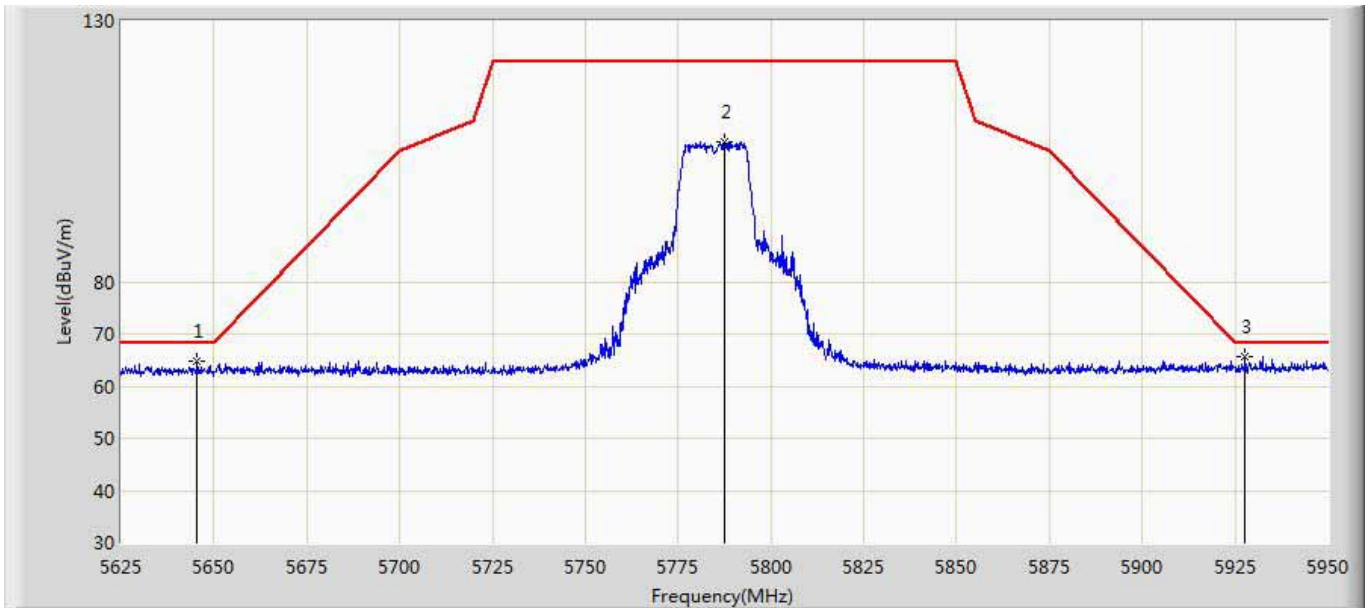
Engineer: Bruce	
Site: AC5	Time: 2016/11/19 - 12:16
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5785 by 802.11ac20 With antenna 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5645.800	64.999	24.005	-3.201	68.200	40.994	PK
2		5786.525	117.891	76.707	-4.309	122.200	41.184	PK
3	*	5928.550	65.194	23.637	-3.006	68.200	41.557	PK

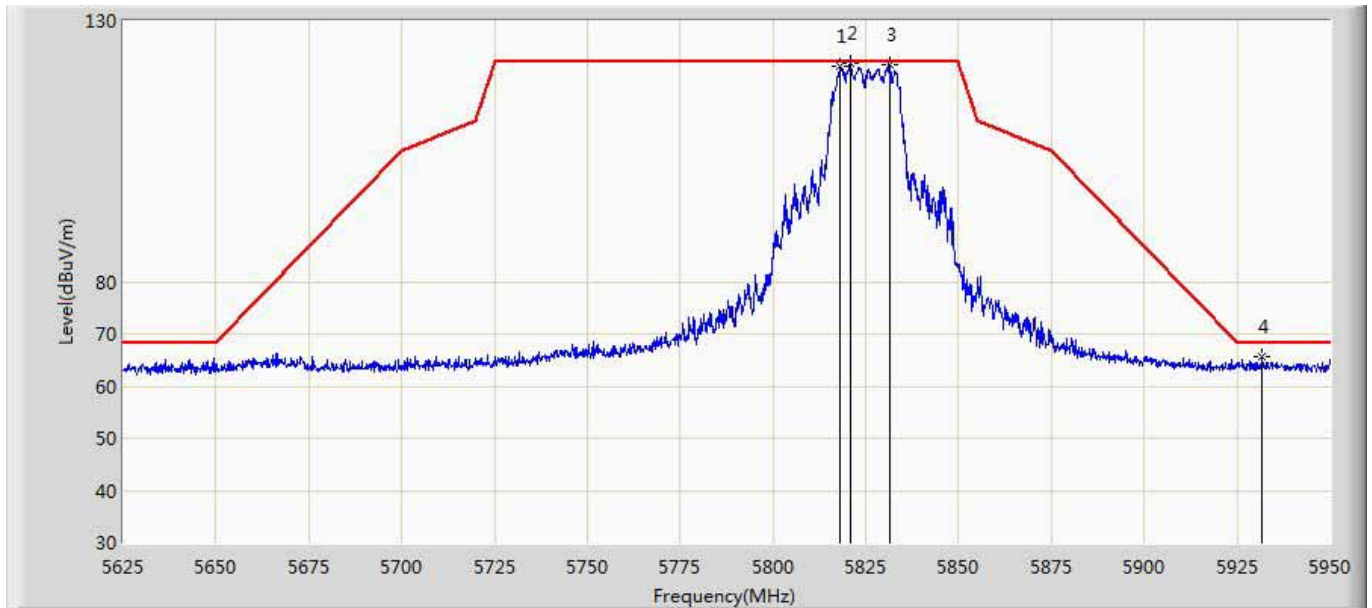


Engineer: Bruce	
Site: AC5	Time: 2016/11/19 - 12:18
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 5785 by 802.11ac20 With antenna 0+1	



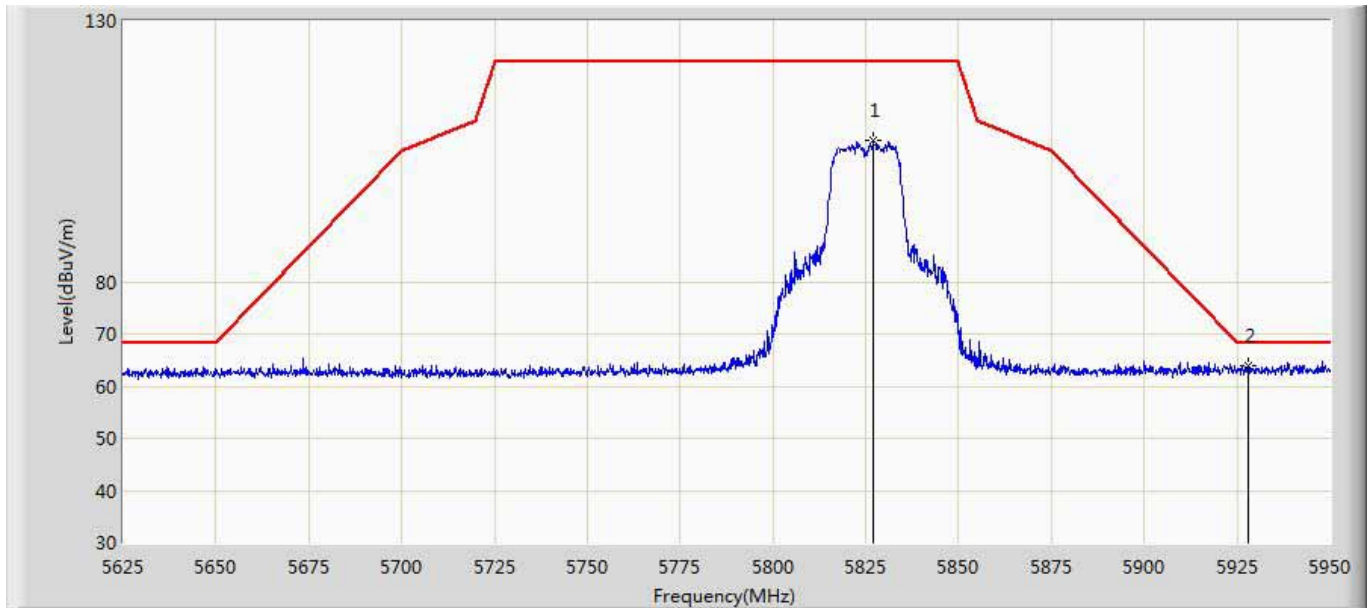
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5645.475	64.684	23.690	-3.516	68.200	40.994	PK
2		5787.500	106.831	65.646	-15.369	122.200	41.185	PK
3	*	5927.737	65.672	24.121	-2.528	68.200	41.551	PK

Engineer: Bruce	
Site: AC5	Time: 2016/11/19 - 12:55
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 4: Transmit at 5825 by 802.11AC20 With antenna 0+1	



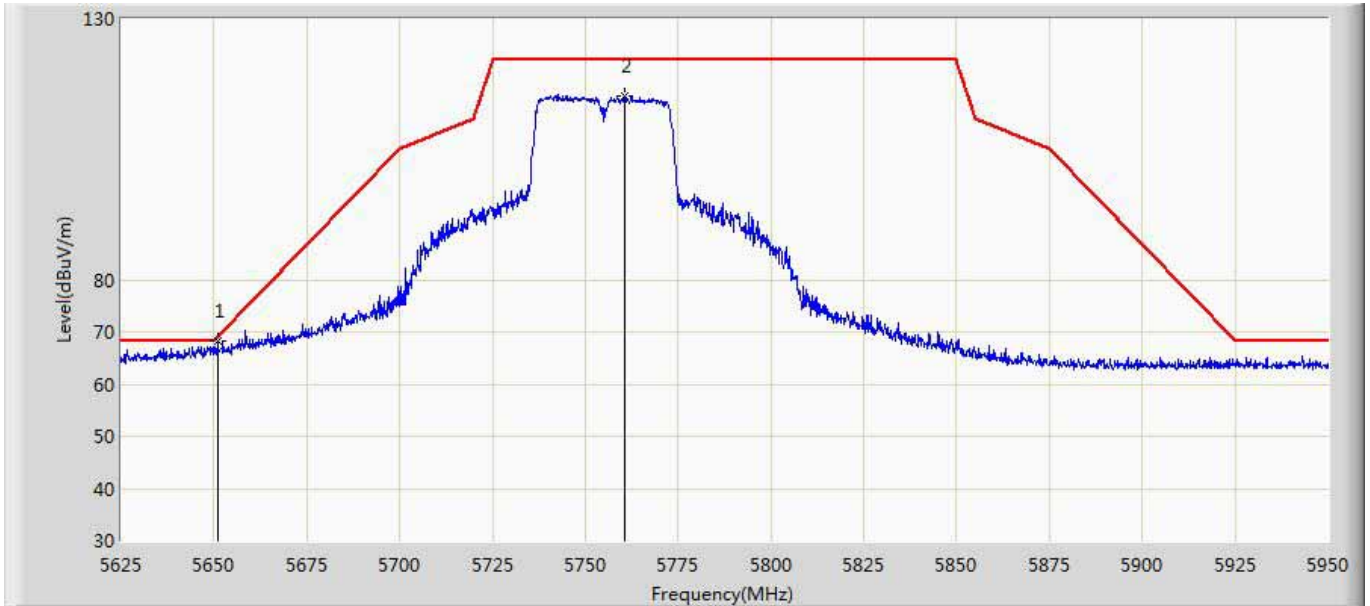
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5818.212	121.347	80.063	-0.853	122.200	41.284	PK
2	*	5820.812	121.749	80.463	-0.451	122.200	41.286	PK
3		5831.375	121.596	80.284	-0.604	122.200	41.312	PK
4		5931.800	65.667	24.098	-2.533	68.200	41.570	PK

Engineer: Bruce	
Site: AC5	Time: 2016/11/19 - 12:55
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 4: Transmit at 5825 by 802.11ac20 With antenna 0+1	



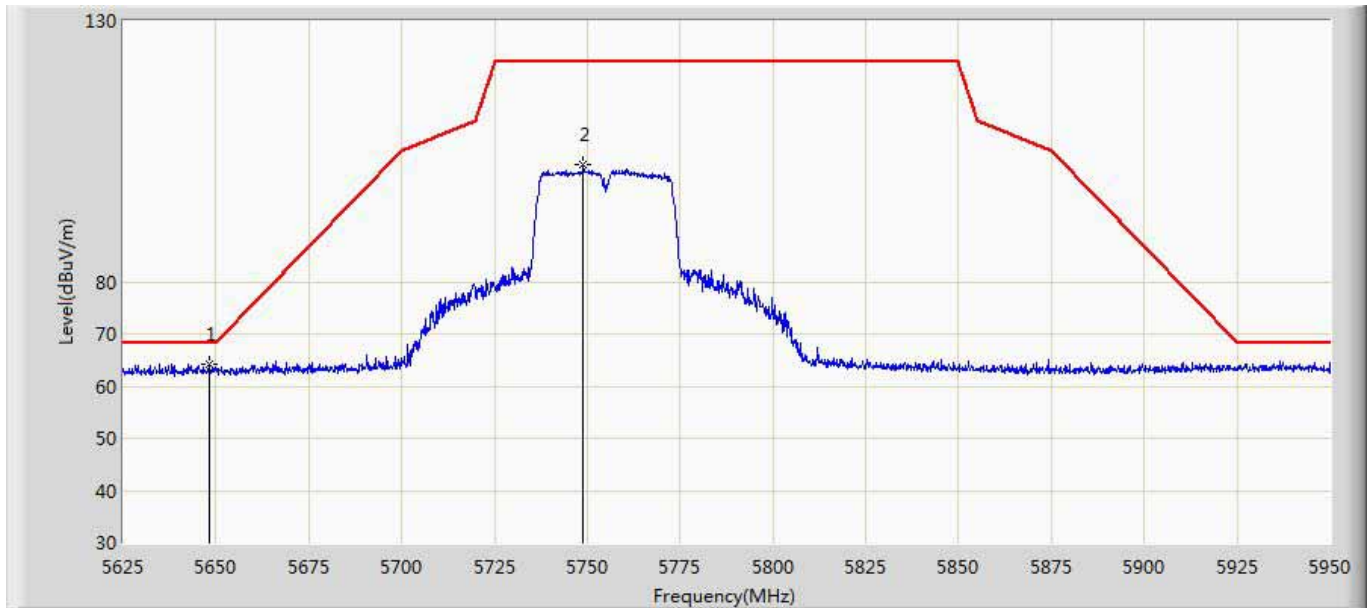
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5826.987	107.074	65.783	-15.126	122.200	41.292	PK
2	*	5928.062	64.018	22.465	-4.182	68.200	41.553	PK

Engineer: Bruce	
Site: AC5	Time: 2016/11/19 - 11:53
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5755 by 802.11ac40 With antenna 0+1	



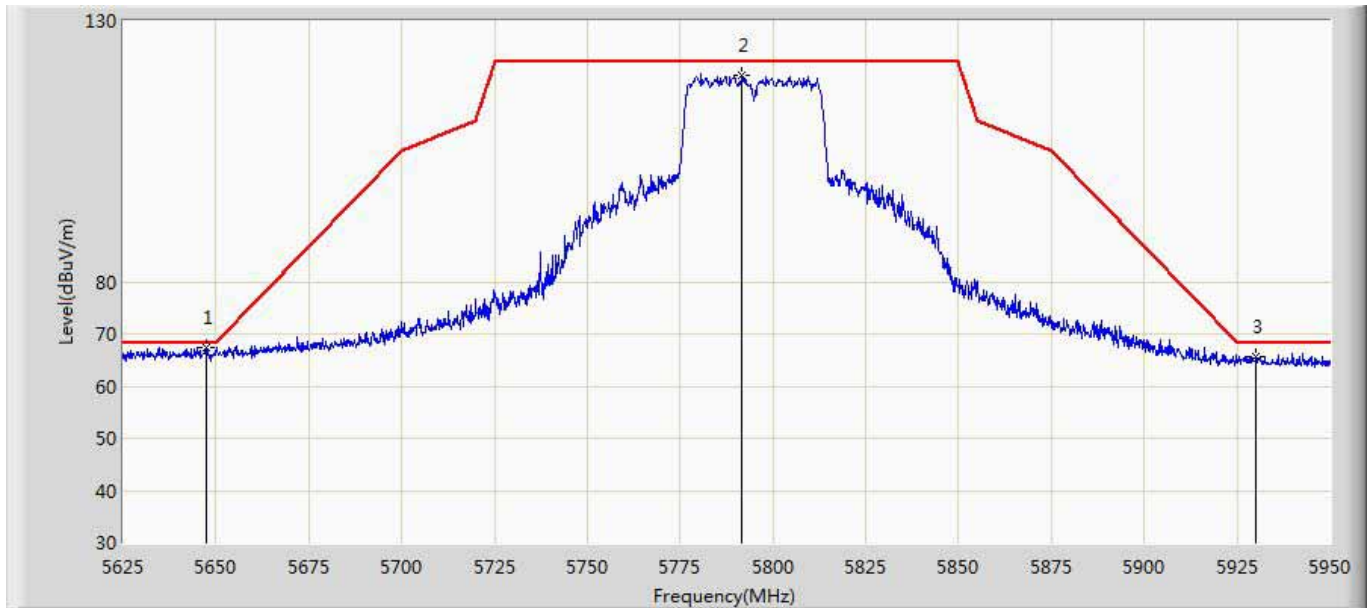
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5651.000	68.264	27.273	-0.676	68.940	40.991	PK
2		5760.687	115.210	74.080	-6.990	122.200	41.130	PK

Engineer: Bruce	
Site: AC5	Time: 2016/11/19 - 11:55
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5755 by 802.11ac40 With antenna 0+1	



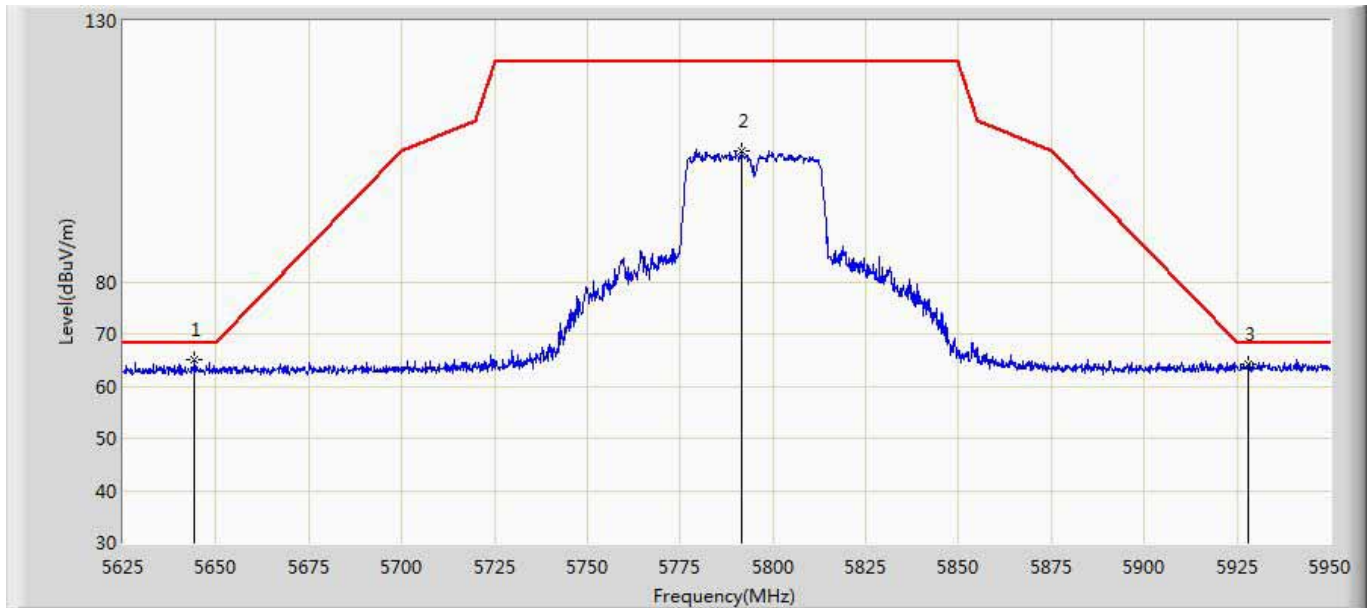
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5648.237	64.104	23.111	-4.096	68.200	40.992	PK
2		5748.987	102.361	61.204	-19.839	122.200	41.156	PK

Engineer: Bruce	
Site: AC5	Time: 2016/11/19 - 12:25
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5795 by 802.11ac40 With antenna 0+1	



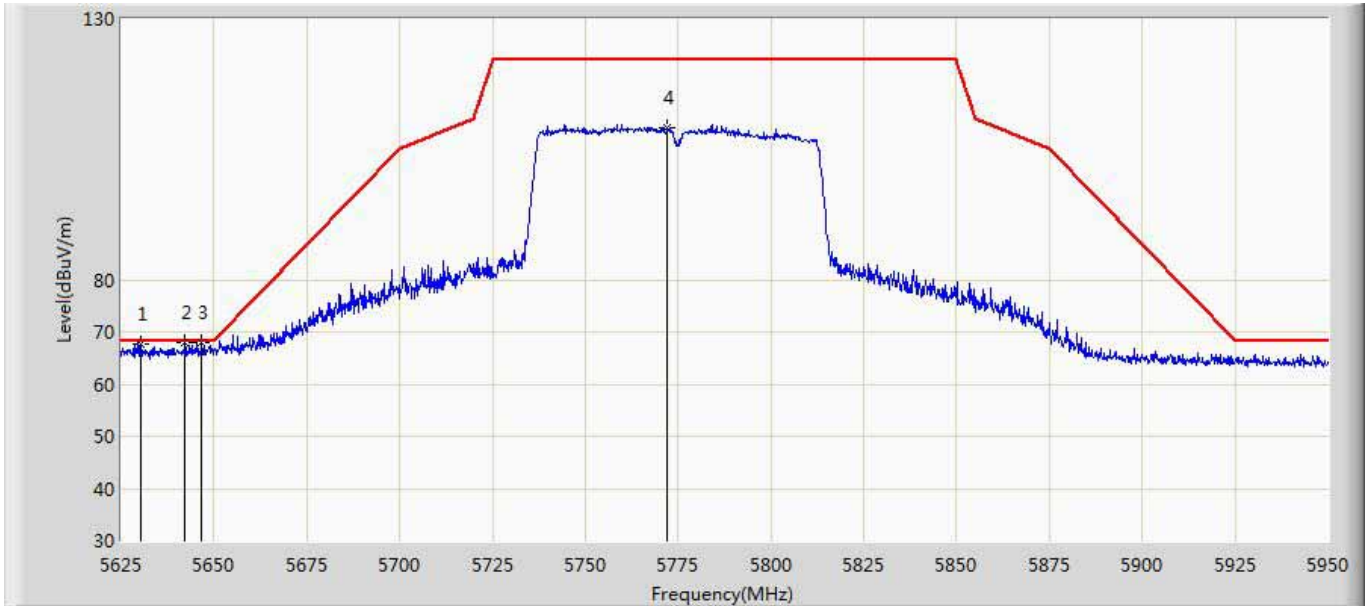
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5647.263	67.347	26.354	-0.853	68.200	40.993	PK
2		5791.562	119.674	78.487	-2.526	122.200	41.187	PK
3		5930.175	65.615	24.047	-2.585	68.200	41.568	PK

Engineer: Bruce	
Site: AC5	Time: 2016/11/19 - 12:27
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 5:Transmit at 5795 by 802.11ac40 With antenna 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5644.337	65.085	24.091	-3.115	68.200	40.995	PK
2		5791.400	105.138	63.951	-17.062	122.200	41.186	PK
3		5927.900	64.336	22.784	-3.864	68.200	41.552	PK

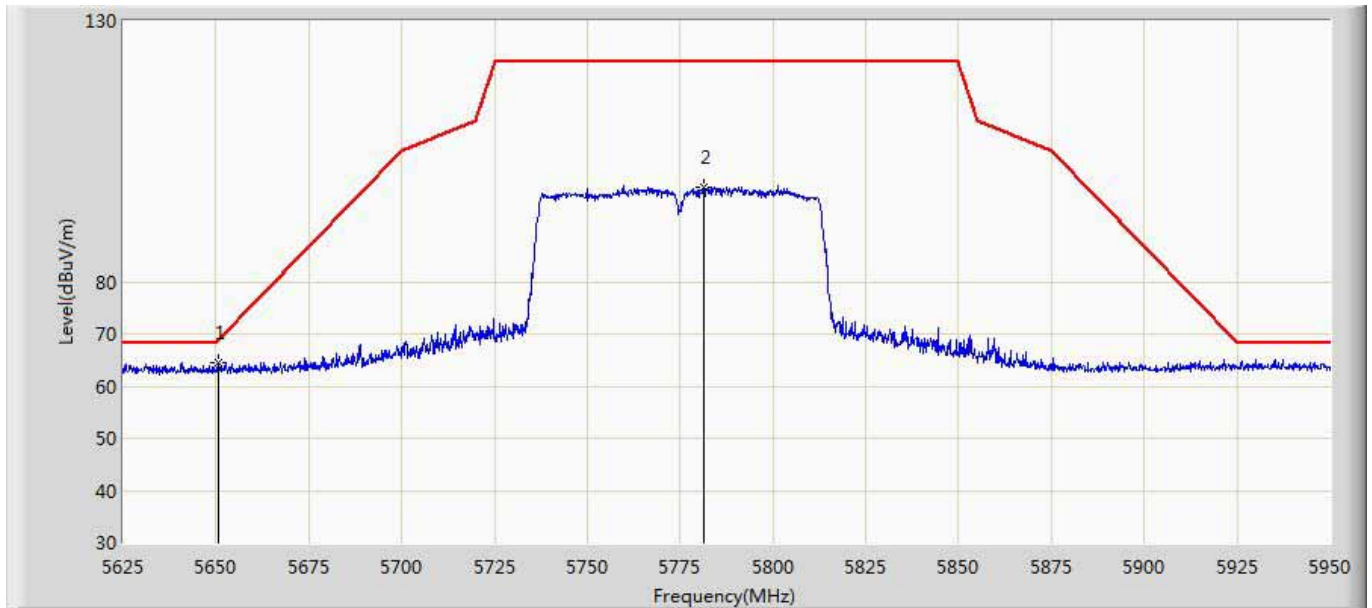
Engineer: Bruce	
Site: AC5	Time: 2016/11/19 - 11:58
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 6:Transmit at 5775 by 802.11ac80 With antenna 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5630.200	67.787	26.794	-0.413	68.200	40.992	PK
2		5642.225	68.003	27.008	-0.197	68.200	40.996	PK
3	*	5646.775	68.013	27.020	-0.187	68.200	40.993	PK
4		5772.062	109.230	68.066	-12.970	122.200	41.164	PK



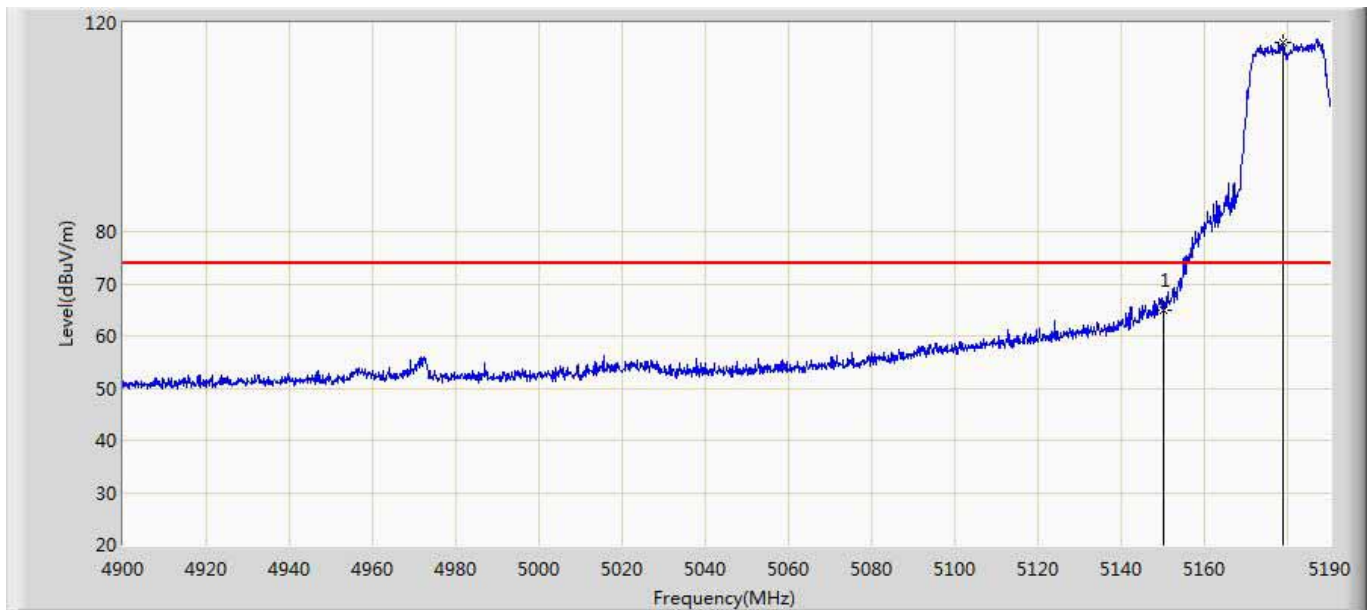
Engineer: Bruce	
Site: AC5	Time: 2016/11/19 - 12:04
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 6:Transmit at 5775 by 802.11ac80 With antenna 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5650.513	64.407	23.415	-4.173	68.580	40.991	PK
2		5781.325	98.172	56.991	-24.028	122.200	41.181	PK

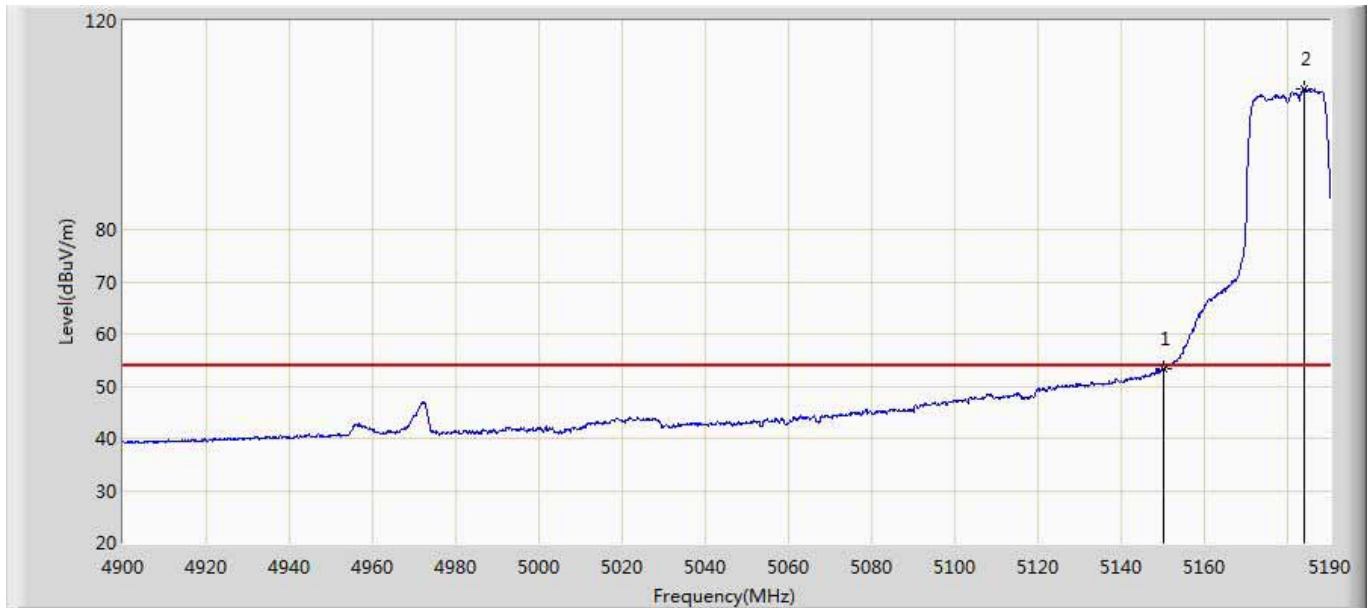
Beamforming:

Engineer: Bruce	
Site: AC5	Time: 2017/02/07 - 09:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 7:Transmit at 5180 by 802.11n20 with Antenna 0+1	



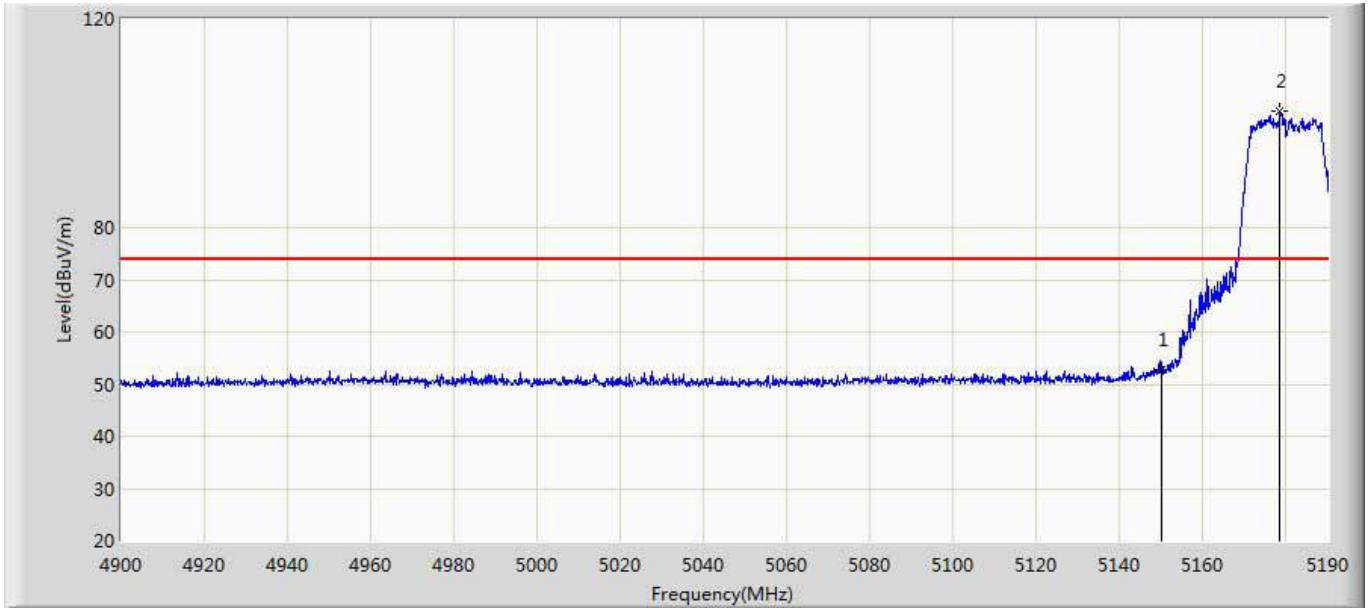
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	64.954	25.420	-9.046	74.000	39.534	PK
2	*	5178.835	116.113	76.535	42.113	74.000	39.579	PK

Engineer: Bruce	
Site: AC5	Time: 2017/02/07 - 10:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 7:Transmit at 5180 by 802.11n20 with Antenna 0+1	



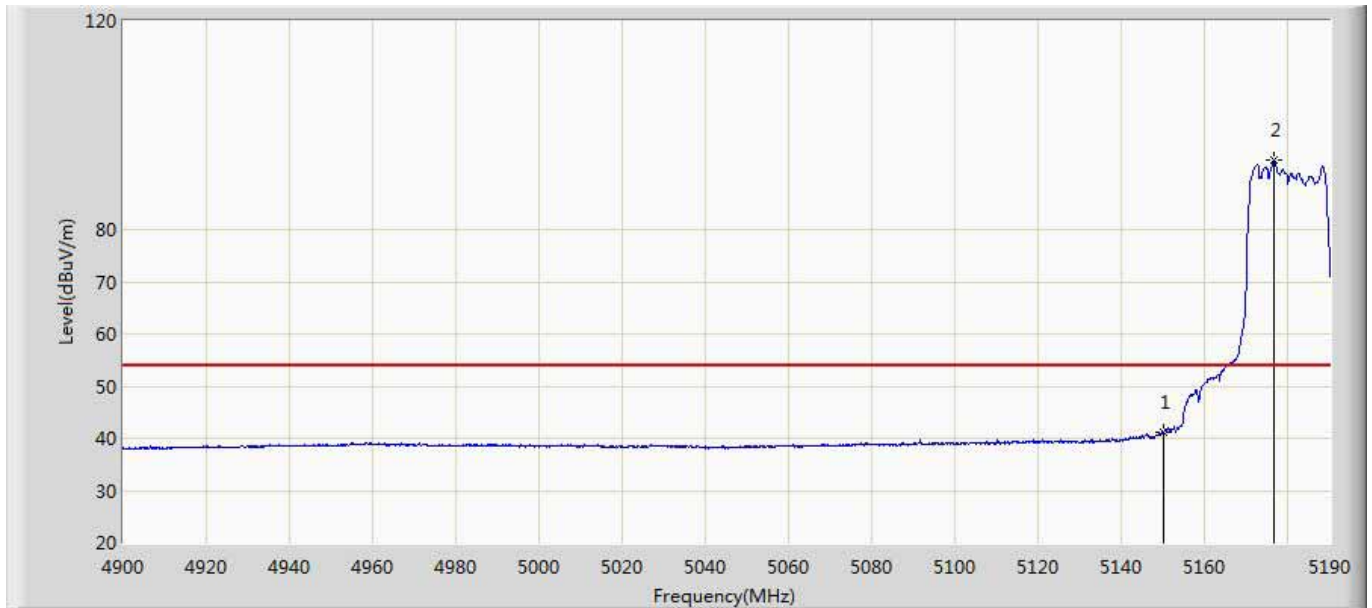
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	53.253	13.719	-0.747	54.000	39.534	AV
2	*	5183.910	106.843	67.272	52.843	54.000	39.571	AV

Engineer: Bruce	
Site: AC5	Time: 2017/02/07 - 10:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 7:Transmit at 5180 by 802.11n20 with Antenna 0+1	



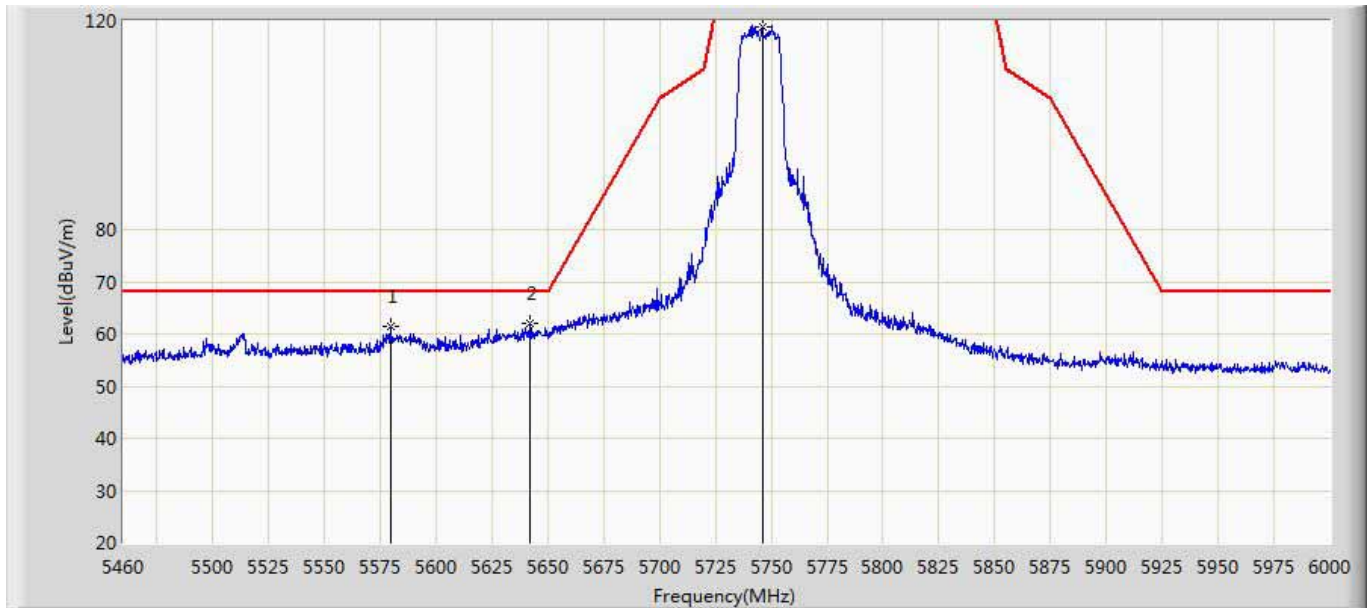
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	52.834	13.300	-21.166	74.000	39.534	PK
2	*	5178.545	102.180	62.599	28.180	74.000	39.581	PK

Engineer: Bruce	
Site: AC5	Time: 2017/02/07 - 10:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 7:Transmit at 5180 by 802.11n20 with Antenna 0+1	



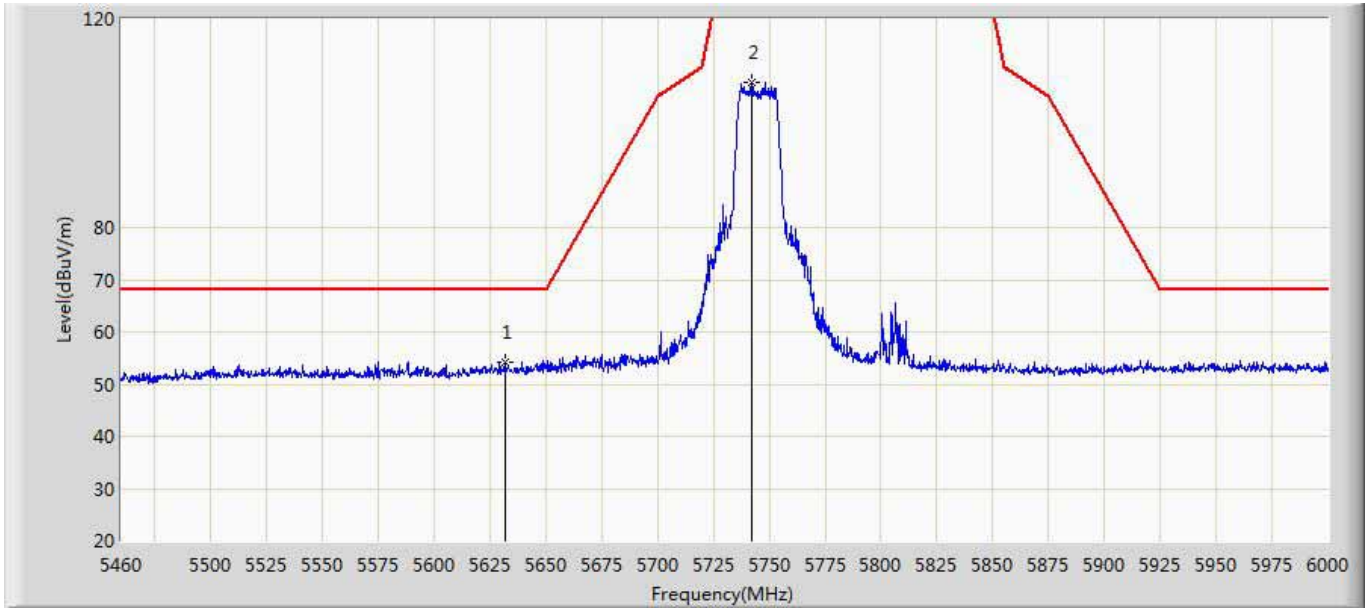
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	41.060	1.526	-12.940	54.000	39.534	AV
2	*	5176.660	93.229	53.634	39.229	54.000	39.596	AV

Engineer: Bruce	
Site: AC5	Time: 2017/02/07 - 11:27
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 7: Transmit at 5745 by 802.11n20 with Antenna 0+1	



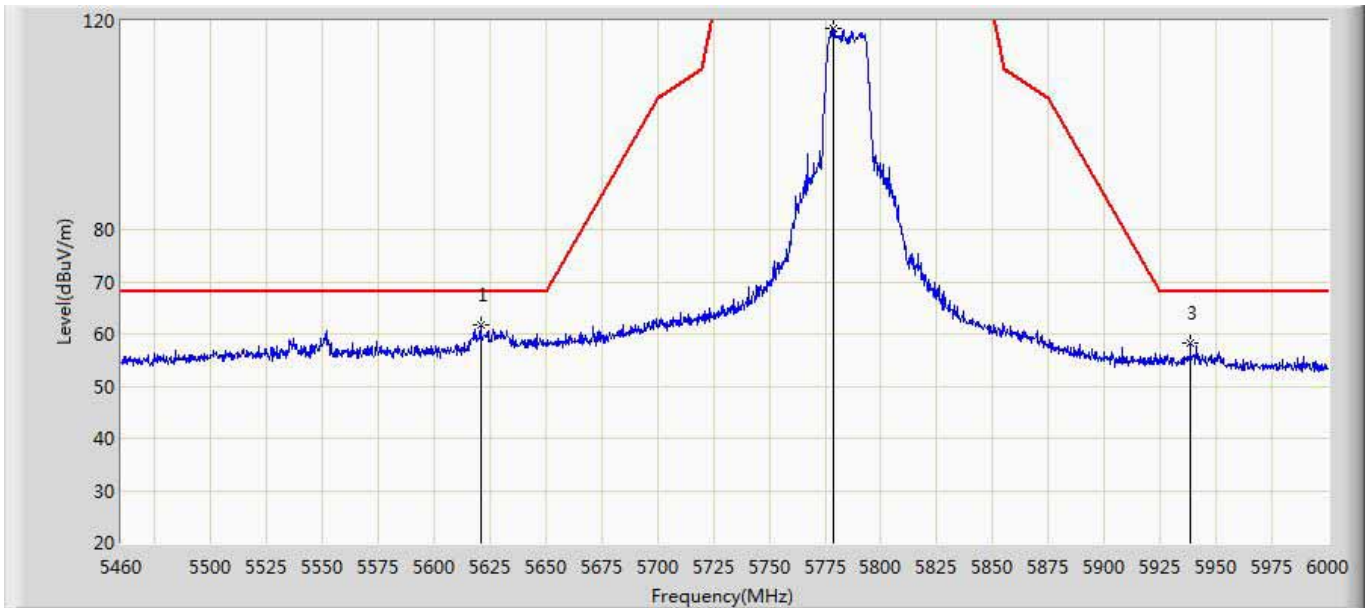
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5579.610	61.320	21.021	-6.880	68.200	40.299	PK
2		5642.250	62.038	21.678	-6.162	68.200	40.360	PK
3	*	5745.930	118.748	78.159	-3.452	122.200	40.588	PK

Engineer: Bruce	
Site: AC5	Time: 2017/02/07 - 11:32
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 7: Transmit at 5745 by 802.11n20 with Antenna 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5631.720	54.263	13.798	-13.937	68.200	40.465	PK
2		5742.420	107.756	67.177	-14.444	122.200	40.579	PK

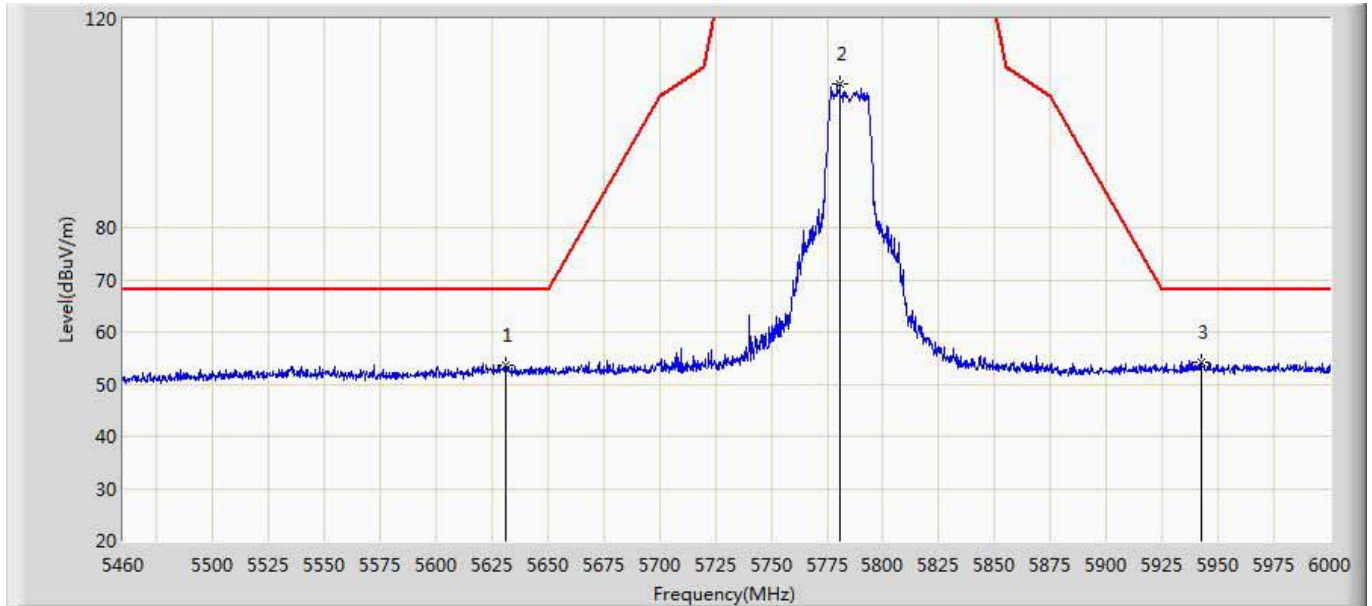
Engineer: Bruce	
Site: AC5	Time: 2017/02/07 - 11:35
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 7: Transmit at 5785 by 802.11n20 with Antenna 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5620.920	61.848	21.336	-6.352	68.200	40.513	PK
2	*	5778.600	118.618	77.955	-3.582	122.200	40.663	PK
3		5938.440	58.322	17.355	-9.878	68.200	40.967	PK

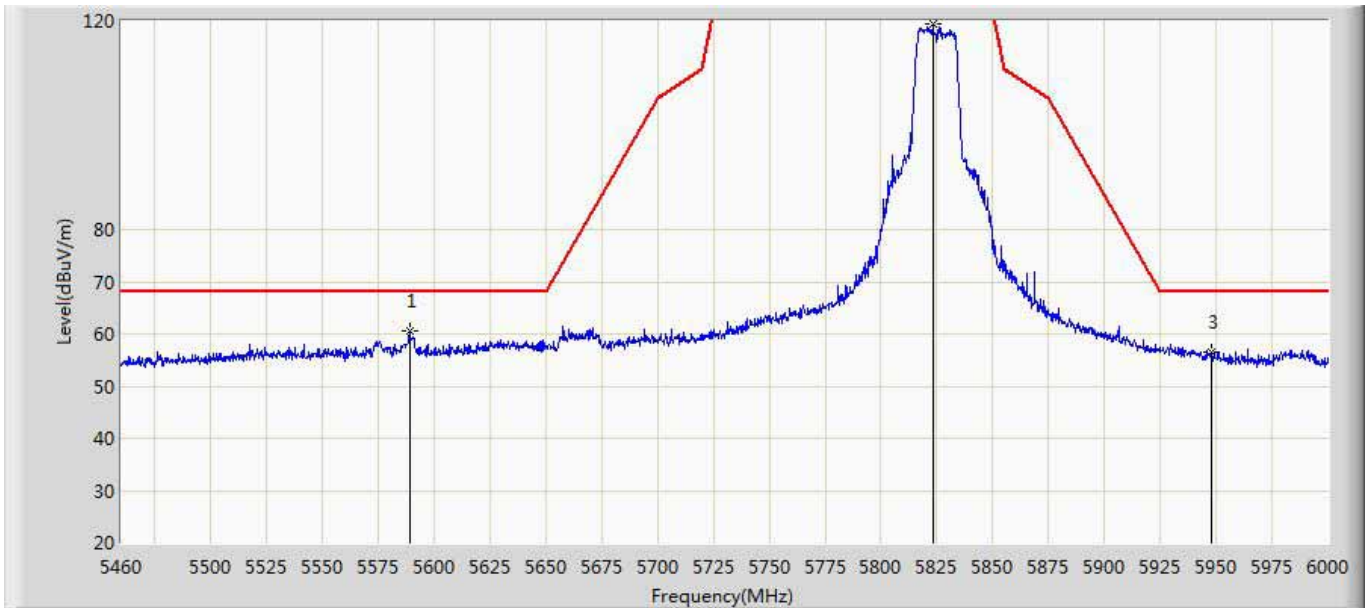


Engineer: Bruce	
Site: AC5	Time: 2017/02/07 - 11:37
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 7: Transmit at 5785 by 802.11n20 with Antenna 0+1	



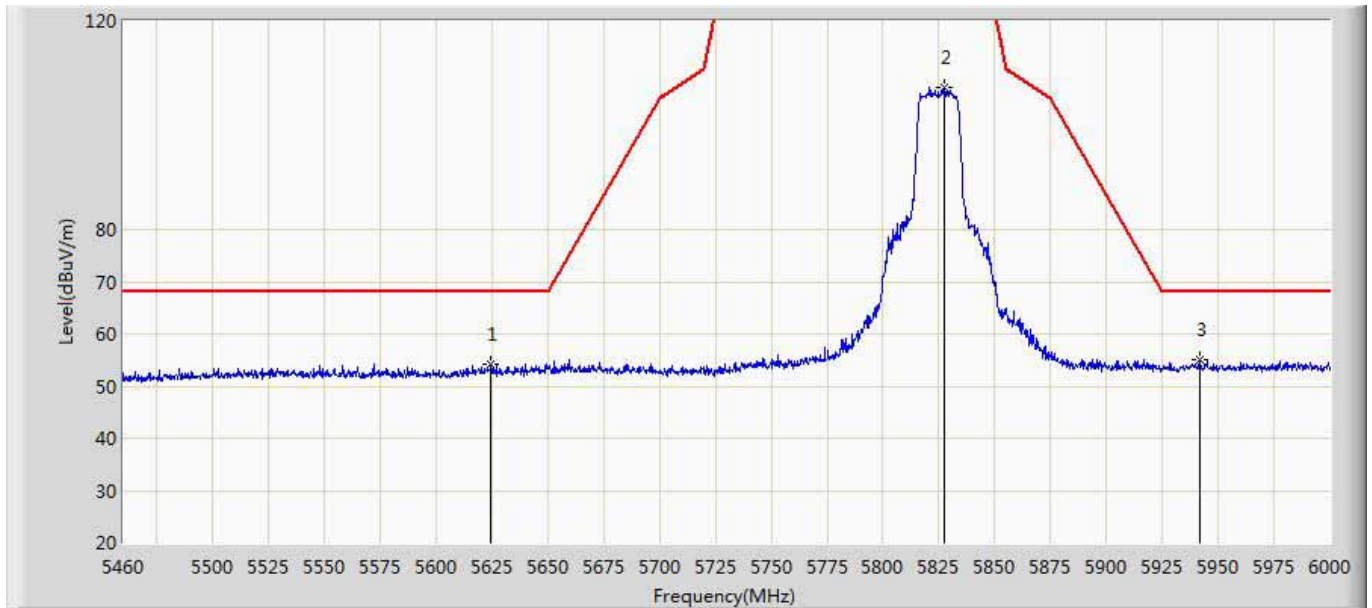
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5631.450	53.615	13.146	-14.585	68.200	40.469	PK
2		5780.760	107.618	66.940	-14.582	122.200	40.677	PK
3	*	5942.490	54.322	13.317	-13.878	68.200	41.005	PK

Engineer: Bruce	
Site: AC5	Time: 2017/02/07 - 11:39
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 7: Transmit at 5825 by 802.11n20 with Antenna 0+1	



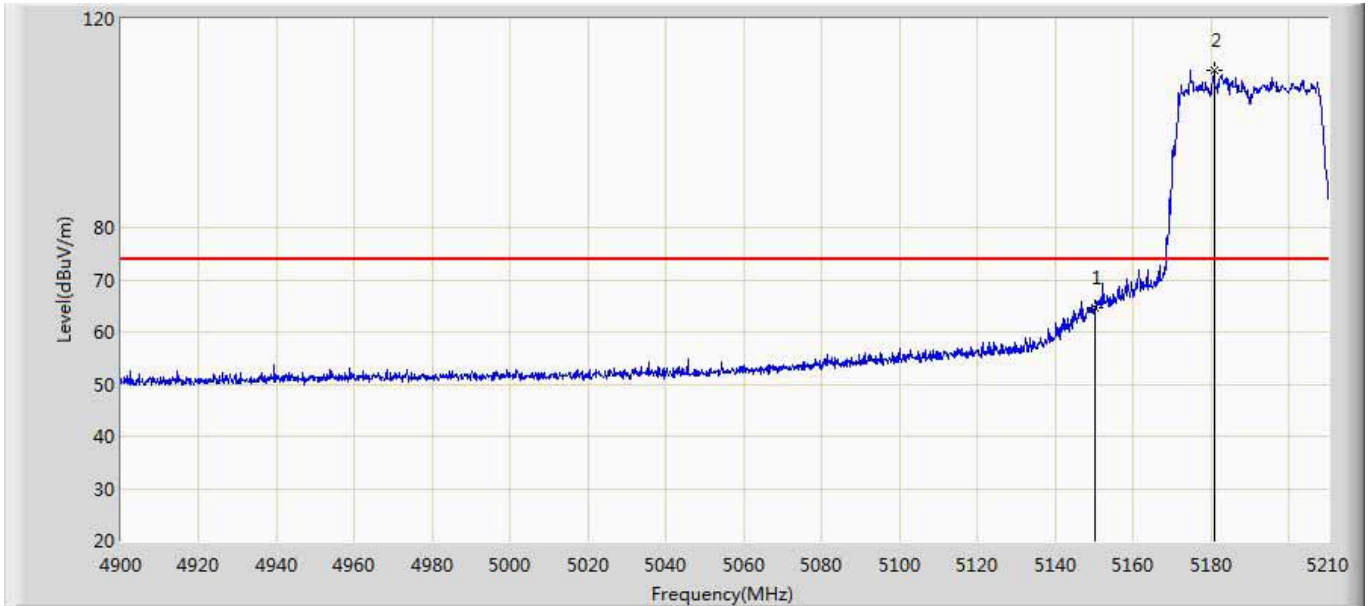
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5589.060	60.545	20.203	-7.655	68.200	40.342	PK
2	*	5823.420	119.441	78.711	-2.759	122.200	40.730	PK
3		5947.620	56.534	15.489	-11.666	68.200	41.045	PK

Engineer: Bruce	
Site: AC5	Time: 2017/02/07 - 11:44
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 7: Transmit at 5825 by 802.11n20 with Antenna 0+1	



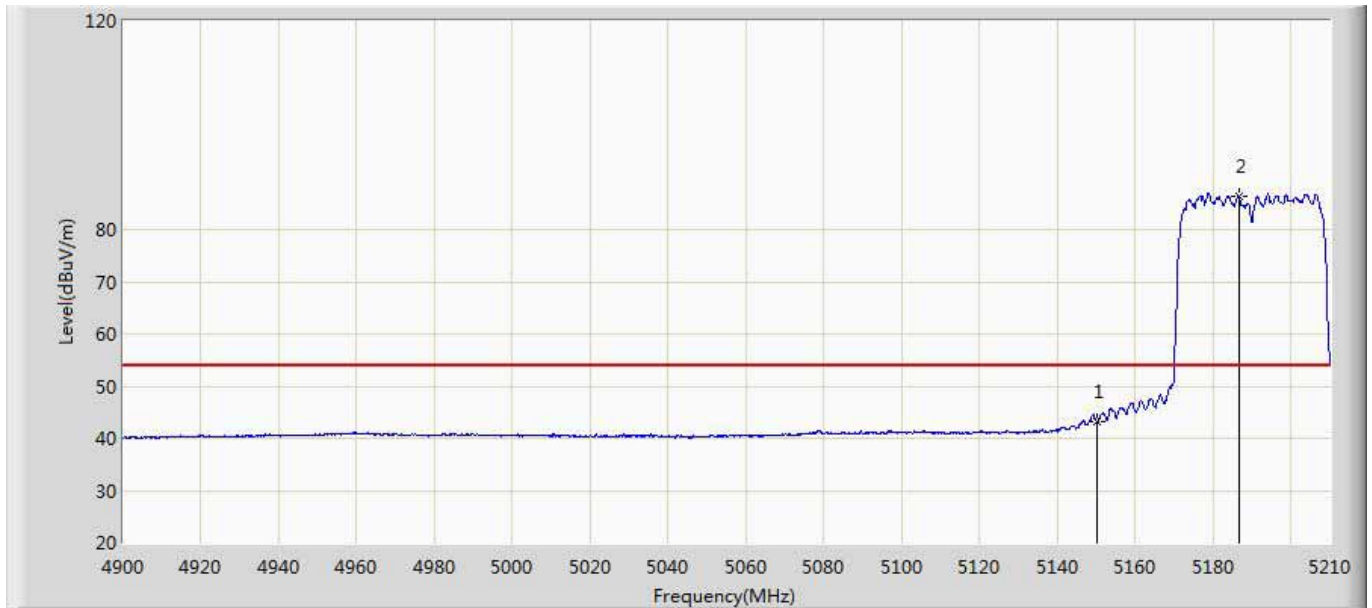
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5624.700	54.076	13.523	-14.124	68.200	40.553	PK
2		5827.200	107.141	66.425	-15.059	122.200	40.716	PK
3	*	5941.680	55.127	14.130	-13.073	68.200	40.997	PK

Engineer: Bruce	
Site: AC5	Time: 2017/02/08 - 19:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 8:Transmit at 5190 by 802.11n40 with Antenna 0+1	



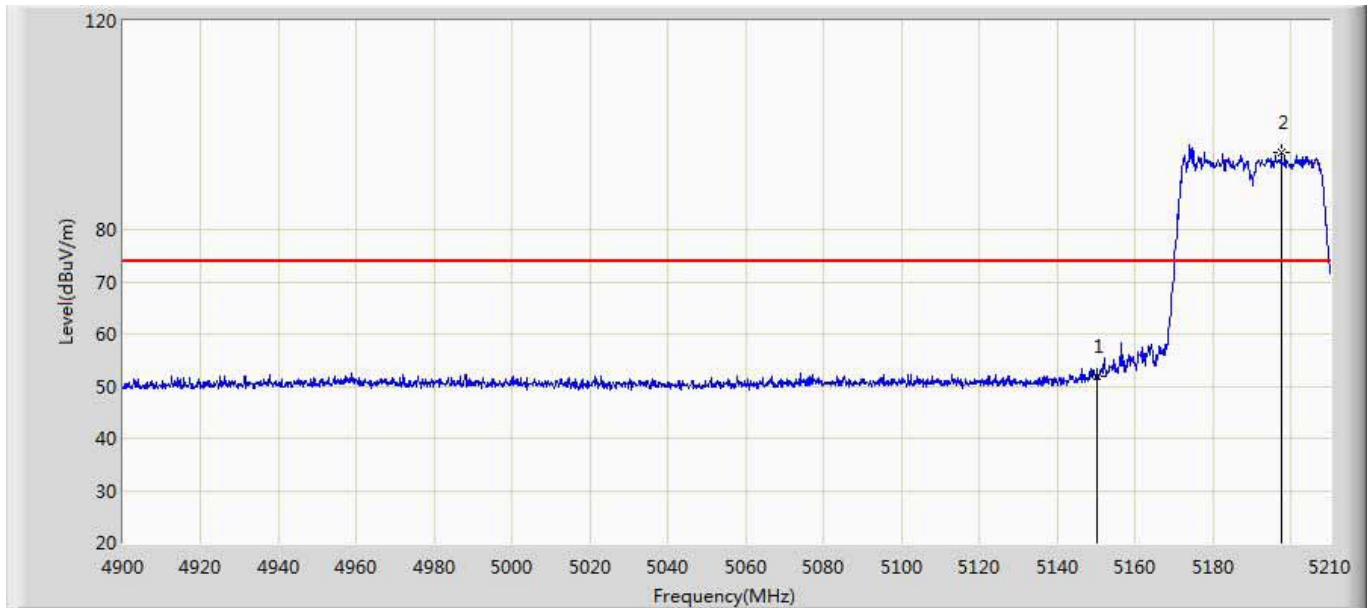
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	64.668	25.134	-9.332	74.000	39.534	PK
2	*	5180.860	110.045	70.482	36.045	74.000	39.563	PK

Engineer: Bruce	
Site: AC5	Time: 2017/02/08 - 20:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 8:Transmit at 5190 by 802.11n40 with Antenna 0+1	



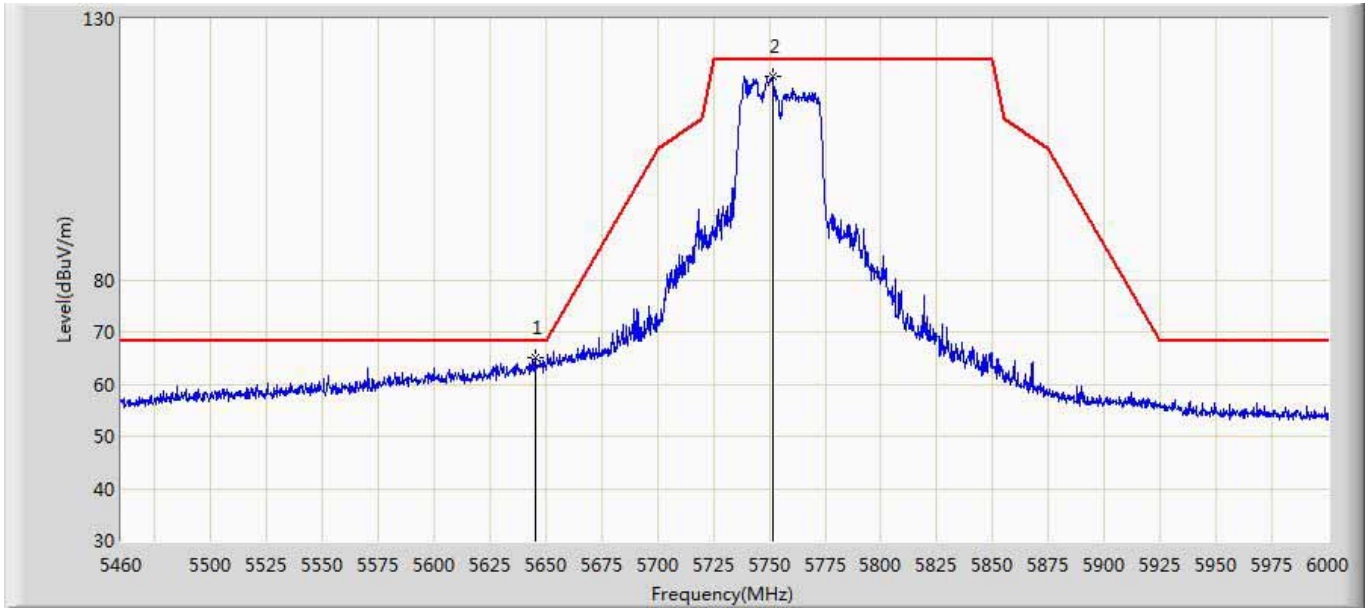
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	43.123	3.589	-10.877	54.000	39.534	AV
2	*	5186.595	86.320	46.724	32.320	54.000	39.596	AV

Engineer: Bruce	
Site: AC5	Time: 2017/02/08 - 20:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 8:Transmit at 5190 by 802.11n40 with Antenna 0+1	



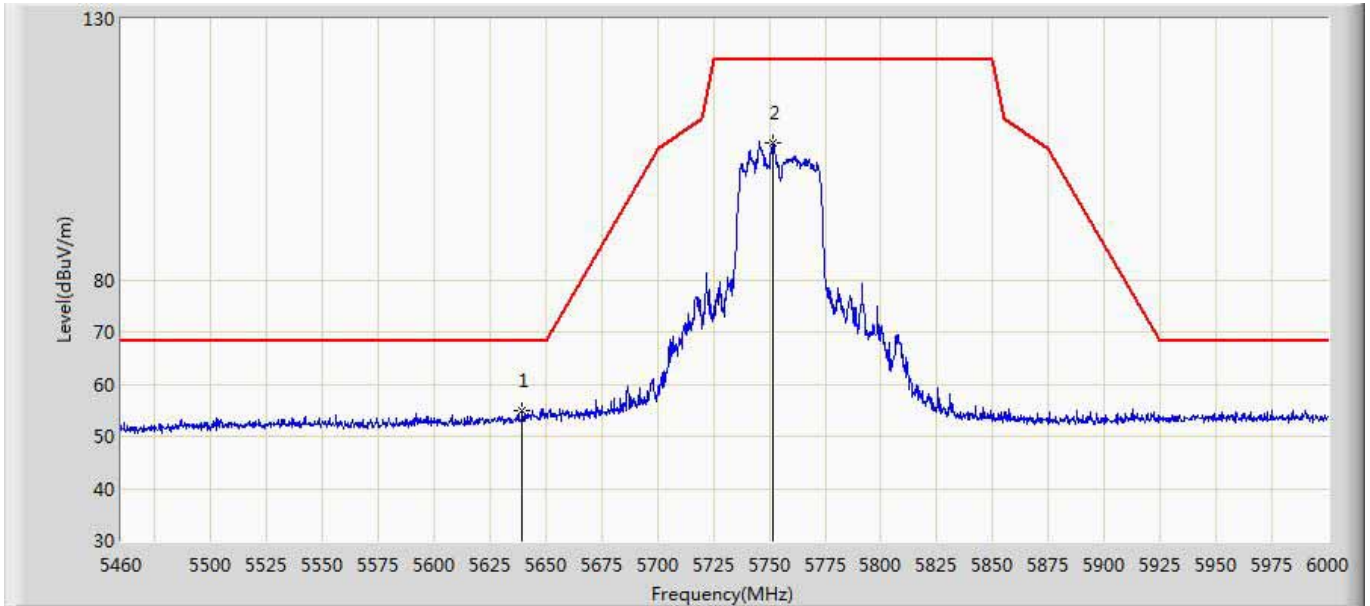
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	51.938	12.404	-22.062	74.000	39.534	PK
2	*	5197.600	94.826	55.130	20.826	74.000	39.696	PK

Engineer: Bruce	
Site: AC5	Time: 2017/02/08 - 20:03
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 8:Transmit at 5755 by 802.11n40 with Antenna 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5645.220	64.977	24.593	-3.223	68.200	40.384	PK
2		5751.330	118.906	78.305	-3.294	122.200	40.601	PK

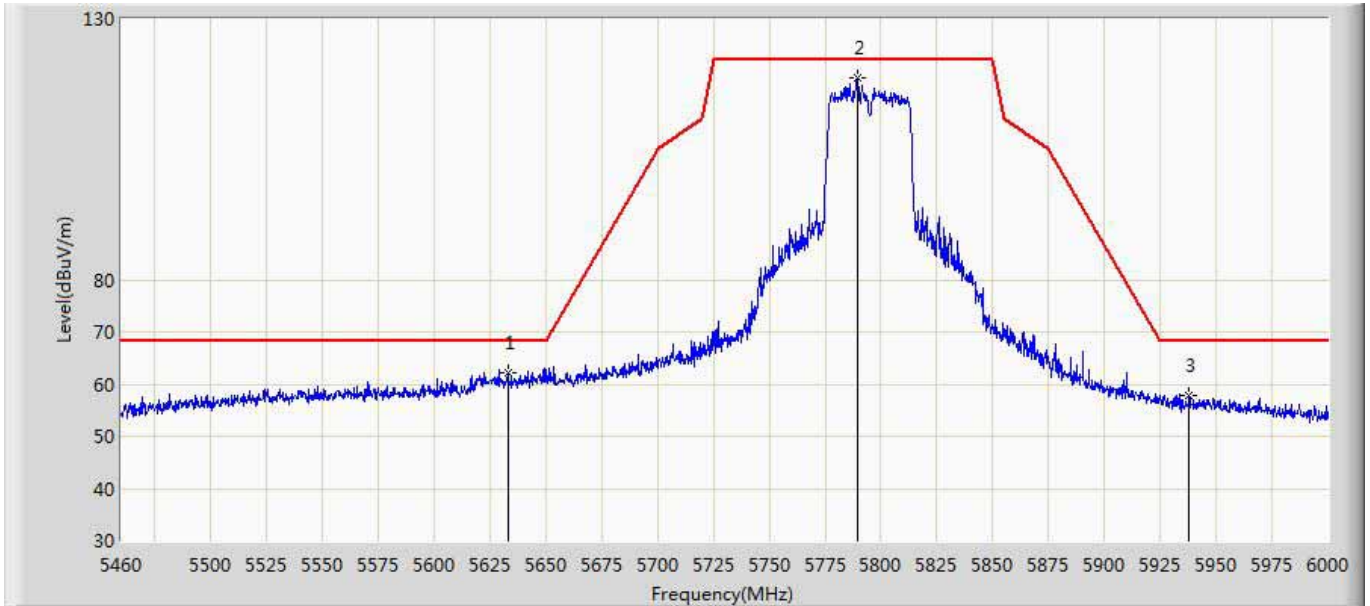
Engineer: Bruce	
Site: AC5	Time: 2017/02/08 - 20:10
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 8:Transmit at 5755 by 802.11n40 with Antenna 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5639.550	54.995	14.628	-13.205	68.200	40.367	PK
2		5751.600	106.343	65.742	-15.857	122.200	40.601	PK

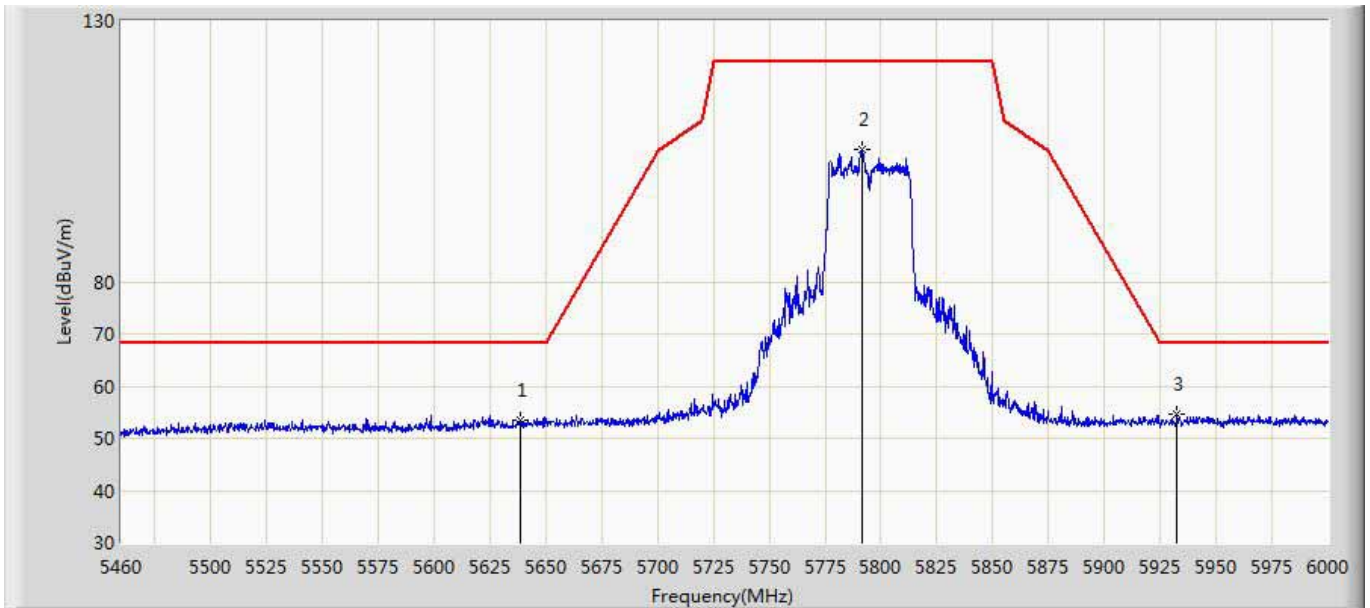


Engineer: Bruce	
Site: AC5	Time: 2017/02/08 - 20:15
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 8:Transmit at 5795 by 802.11n40 with Antenna 0+1	



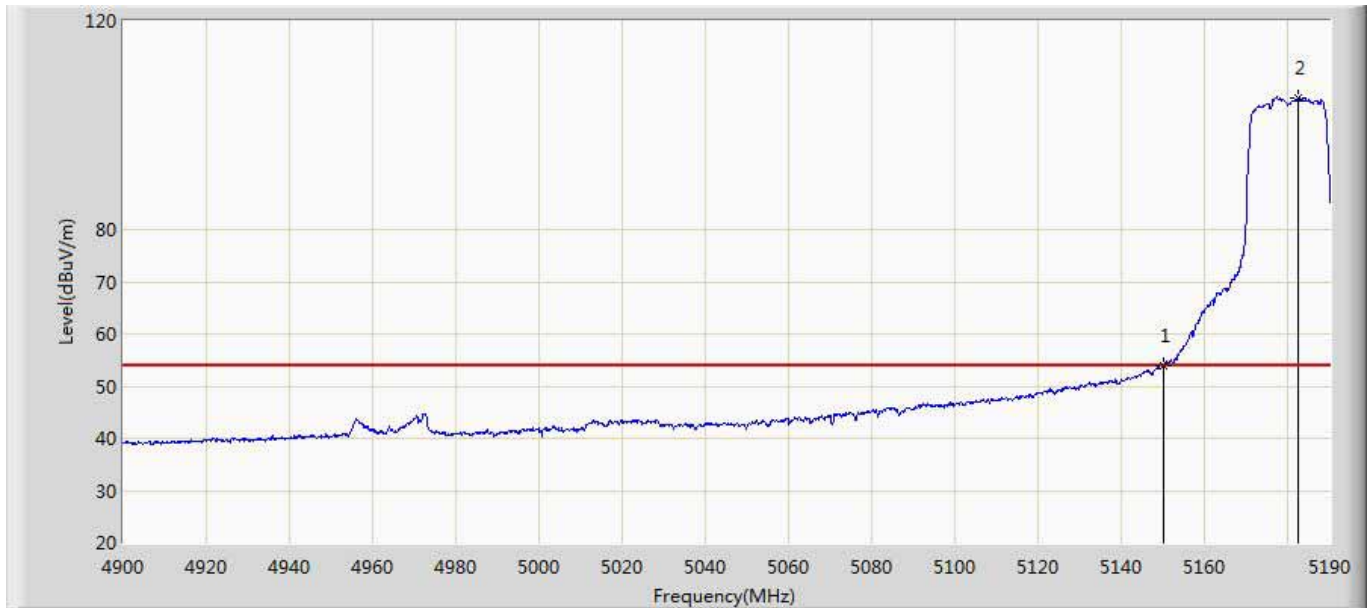
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5633.070	62.247	21.799	-5.953	68.200	40.448	PK
2	*	5789.400	118.790	78.054	-3.410	122.200	40.736	PK
3		5937.900	57.696	16.734	-10.504	68.200	40.962	PK

Engineer: Bruce	
Site: AC5	Time: 2017/02/08 - 20:20
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 8:Transmit at 5795 by 802.11n40 with Antenna 0+1	



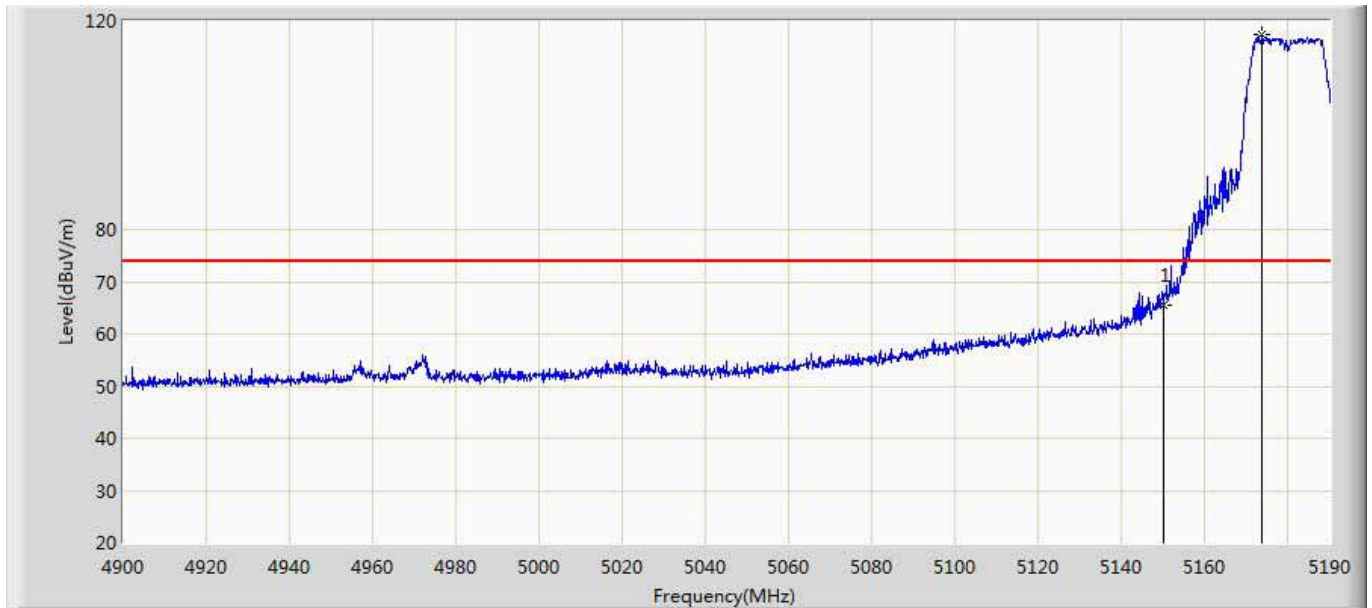
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5638.470	53.556	13.175	-14.644	68.200	40.381	PK
2		5791.830	105.343	64.591	-16.857	122.200	40.752	PK
3	*	5932.500	54.562	13.650	-13.638	68.200	40.913	PK

Engineer: Bruce	
Site: AC5	Time: 2017/02/08 - 18:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 9:Transmit at 5180 by 802.11ac20 with Antenna 0+1	



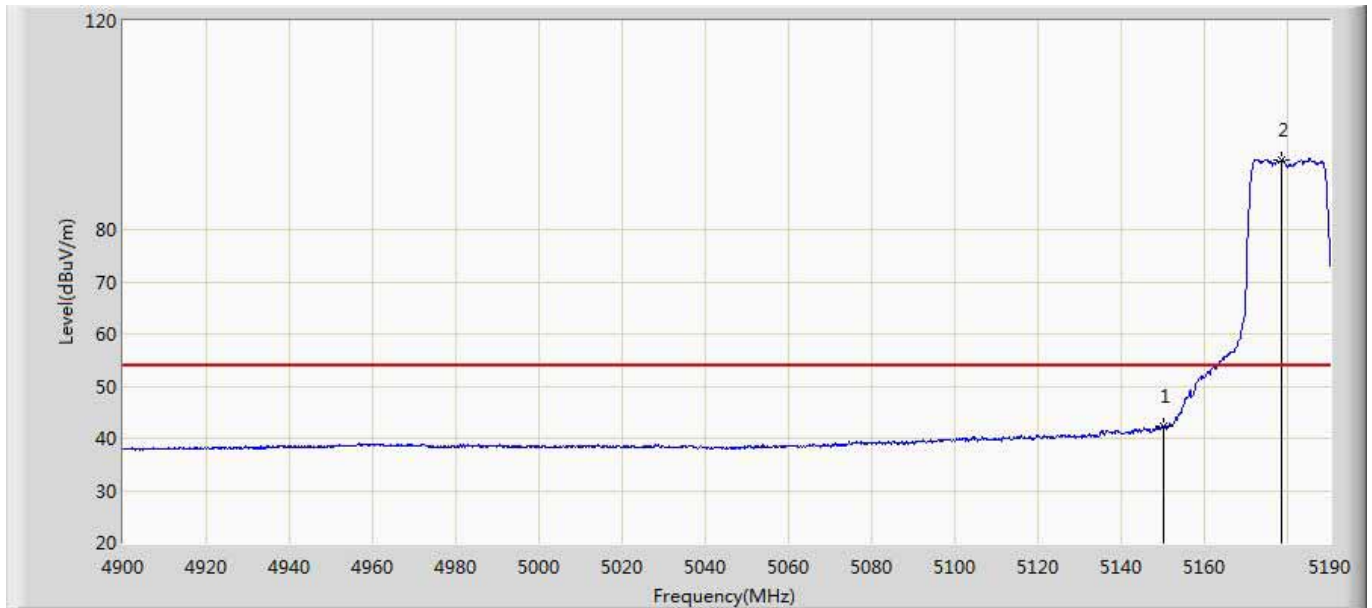
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	53.871	14.337	-0.129	54.000	39.534	AV
2	*	5182.460	105.266	65.708	51.266	54.000	39.558	AV

Engineer: Bruce	
Site: AC5	Time: 2017/02/08 - 18:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 9:Transmit at 5180 by 802.11ac20 with Antenna 0+1	



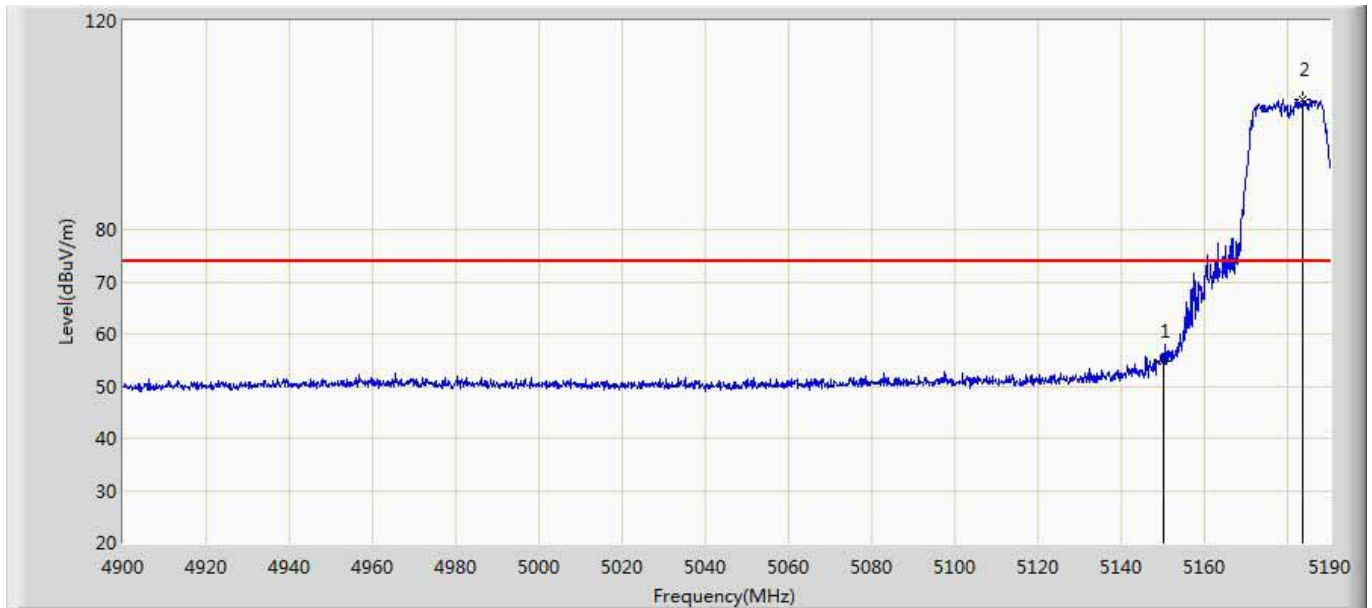
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	65.578	26.044	-8.422	74.000	39.534	PK
2	*	5173.760	117.320	77.702	43.320	74.000	39.618	PK

Engineer: Bruce	
Site: AC5	Time: 2017/02/08 - 18:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 9:Transmit at 5180 by 802.11ac20 with Antenna 0+1	



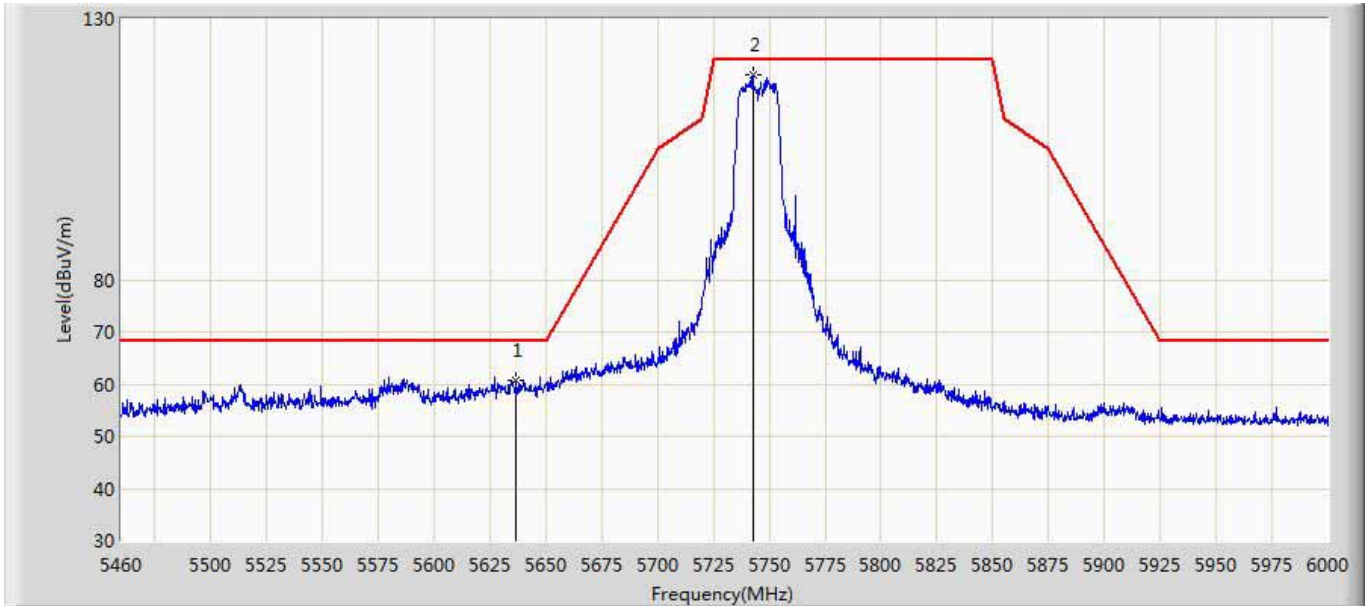
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	42.265	2.731	-11.735	54.000	39.534	AV
2	*	5178.545	93.267	53.686	39.267	54.000	39.581	AV

Engineer: Bruce	
Site: AC5	Time: 2017/02/08 - 18:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 9:Transmit at 5180 by 802.11ac20 with Antenna 0+1	



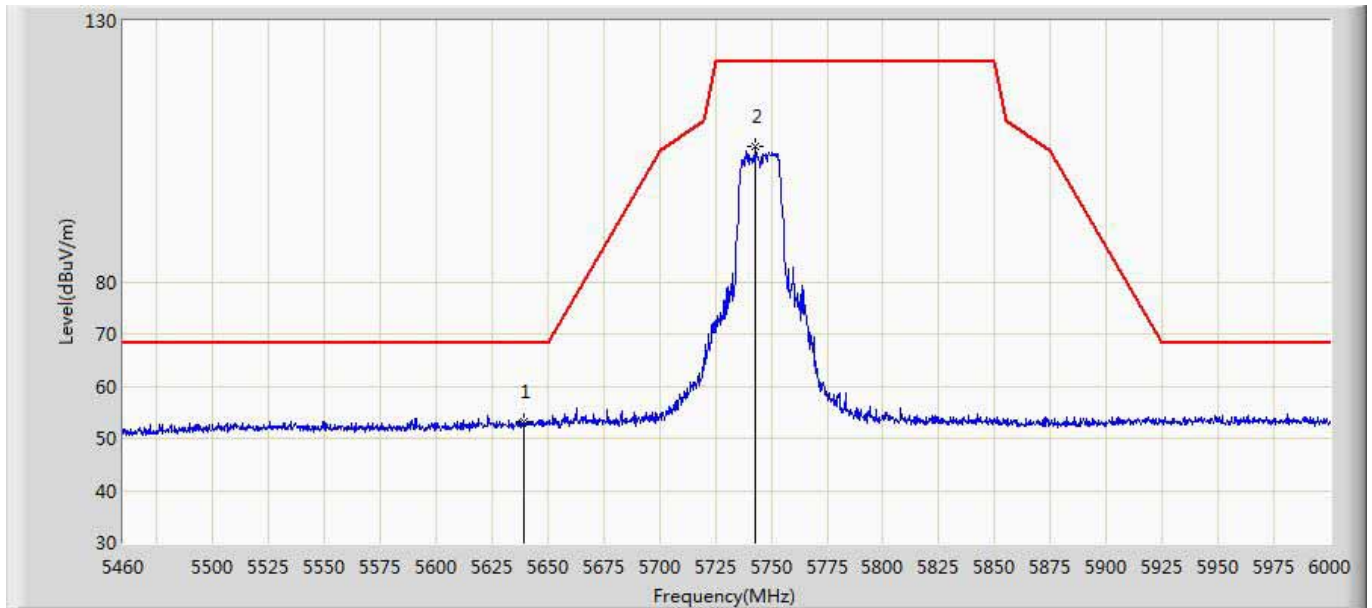
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	54.646	15.112	-19.354	74.000	39.534	PK
2	*	5183.475	104.882	65.315	30.882	74.000	39.567	PK

Engineer: Bruce	
Site: AC5	Time: 2017/02/08 - 18:48
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 9:Transmit at 5745 by 802.11ac20 with Antenna 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5636.580	60.768	20.363	-7.432	68.200	40.405	PK
2	*	5742.690	119.371	78.790	-2.829	122.200	40.581	PK

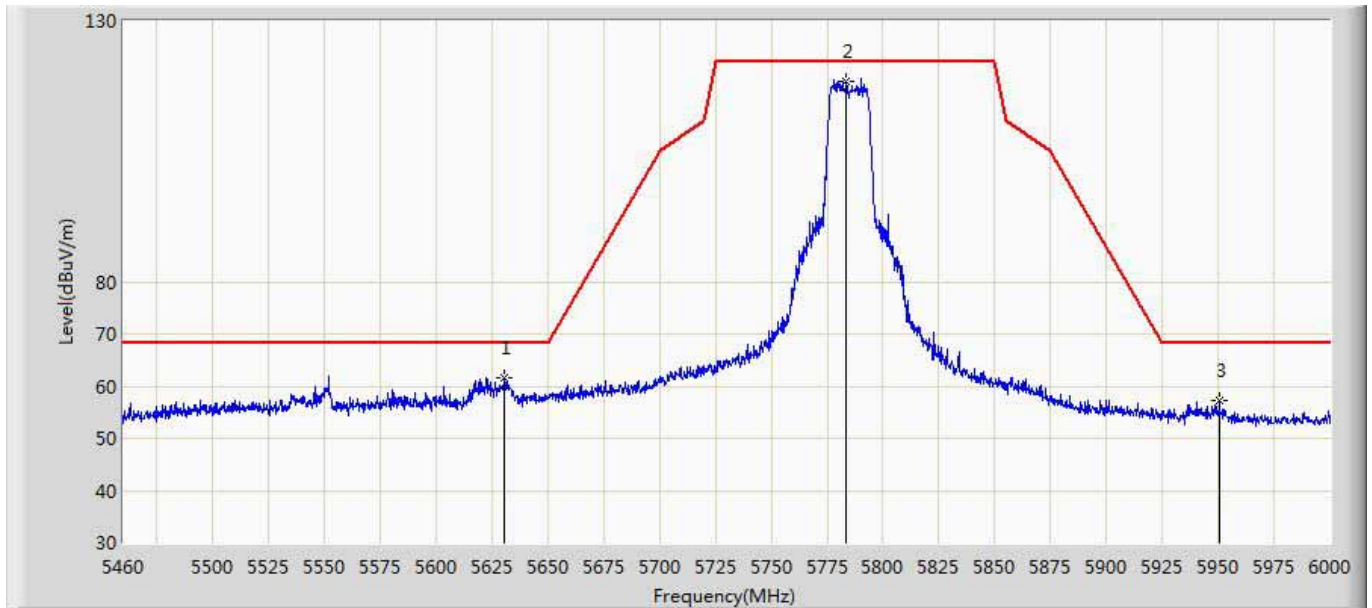
Engineer: Bruce	
Site: AC5	Time: 2017/02/08 - 18:53
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 9:Transmit at 5745 by 802.11ac20 with Antenna 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5639.010	53.277	12.903	-14.923	68.200	40.374	PK
2		5742.960	105.976	65.394	-16.224	122.200	40.582	PK

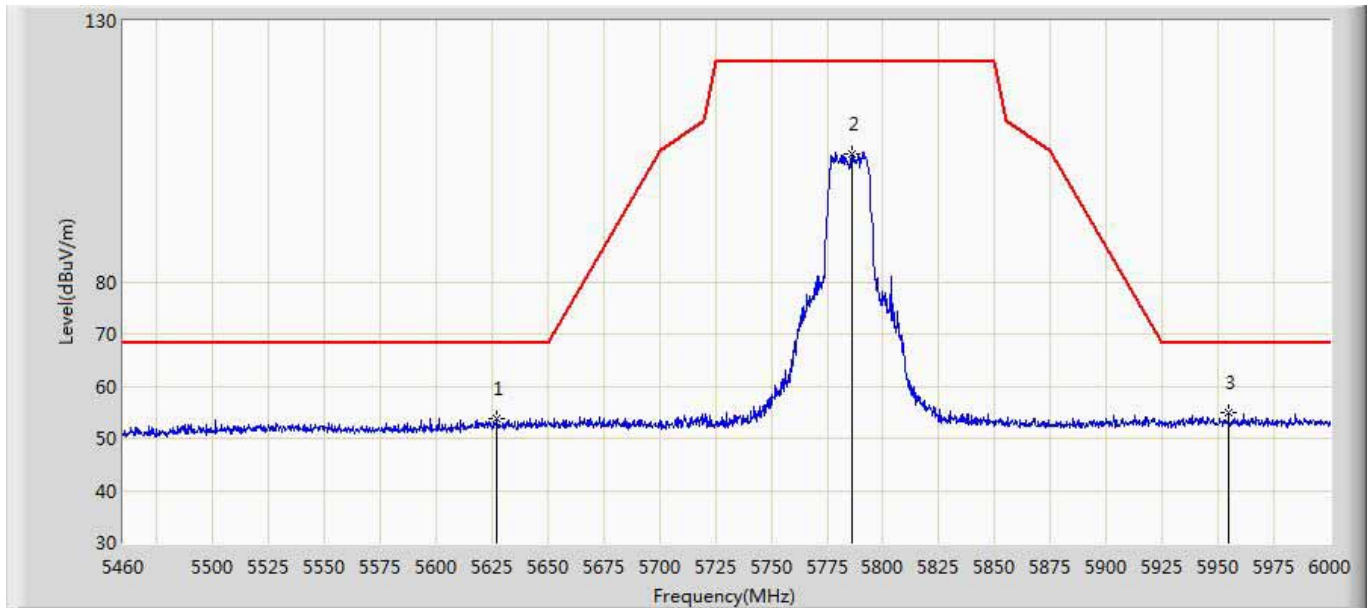


Engineer: Bruce	
Site: AC5	Time: 2017/02/08 - 18:57
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 9:Transmit at 5785 by 802.11ac20 with Antenna 0+1	



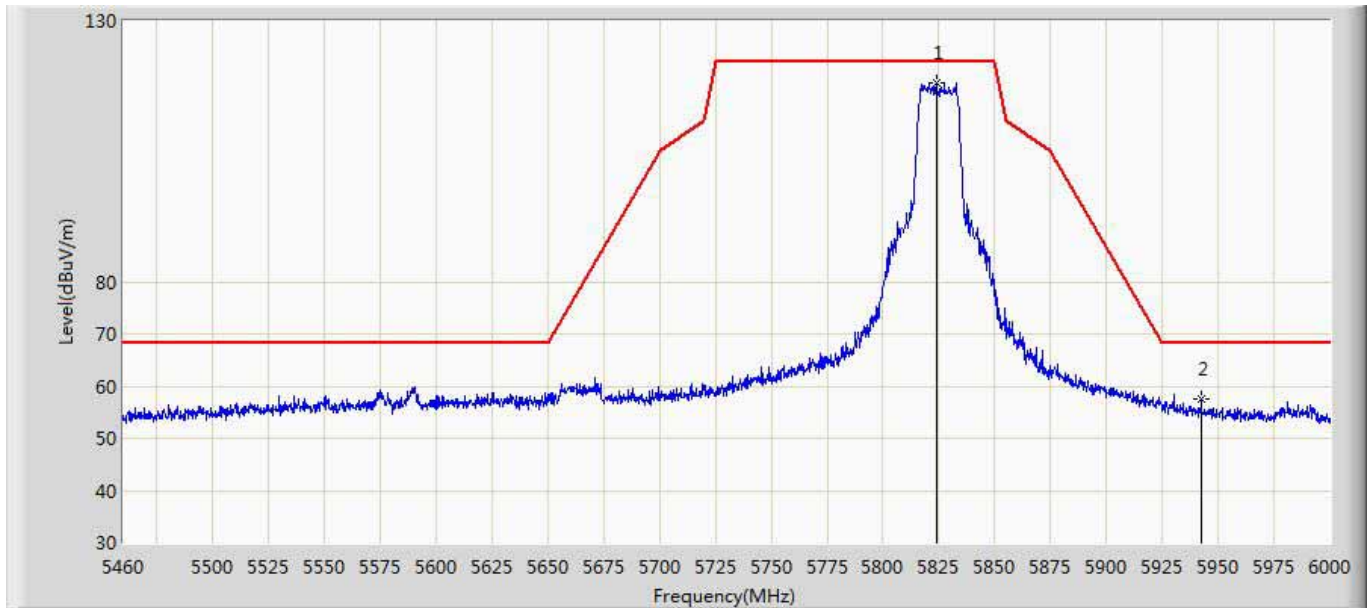
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5630.640	61.652	21.173	-6.548	68.200	40.479	PK
2	*	5783.730	118.366	77.668	-3.834	122.200	40.698	PK
3		5950.590	57.346	16.308	-10.854	68.200	41.038	PK

Engineer: Bruce	
Site: AC5	Time: 2017/02/08 - 19:01
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 9:Transmit at 5785 by 802.11ac20 with Antenna 0+1	



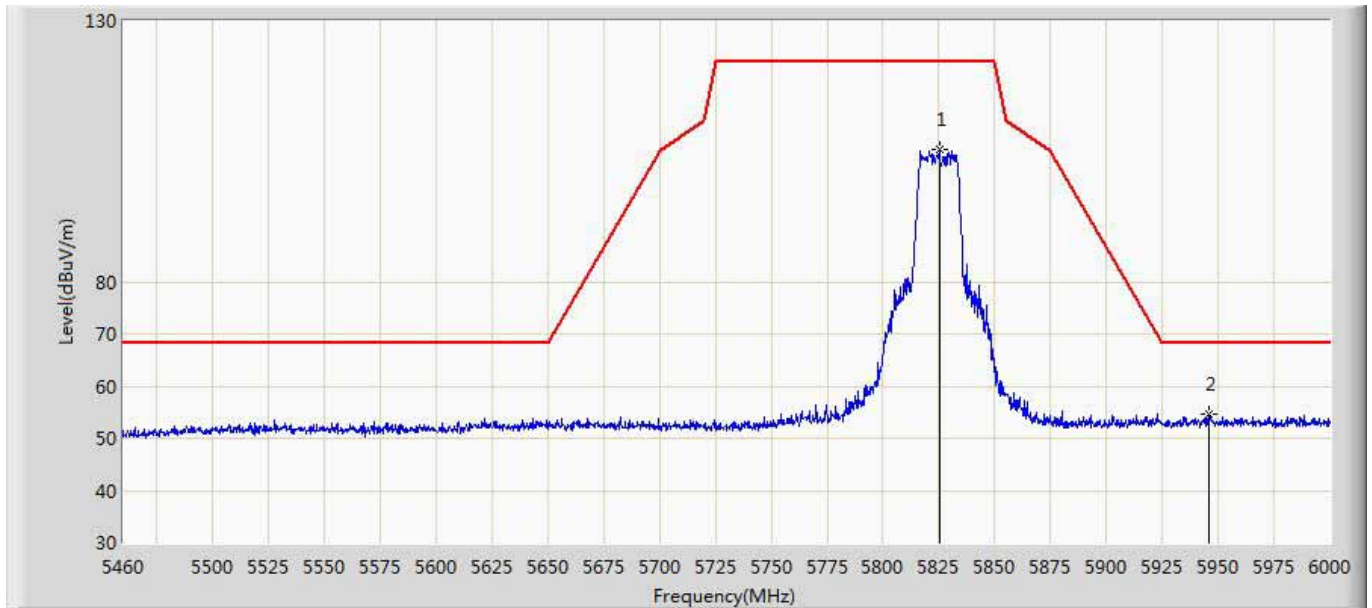
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5627.400	53.869	13.350	-14.331	68.200	40.520	PK
2		5785.890	104.503	63.791	-17.697	122.200	40.712	PK
3	*	5954.640	54.968	13.939	-13.232	68.200	41.029	PK

Engineer: Bruce	
Site: AC5	Time: 2017/02/08 - 19:03
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 9:Transmit at 5825 by 802.11ac20 with Antenna 0+1	



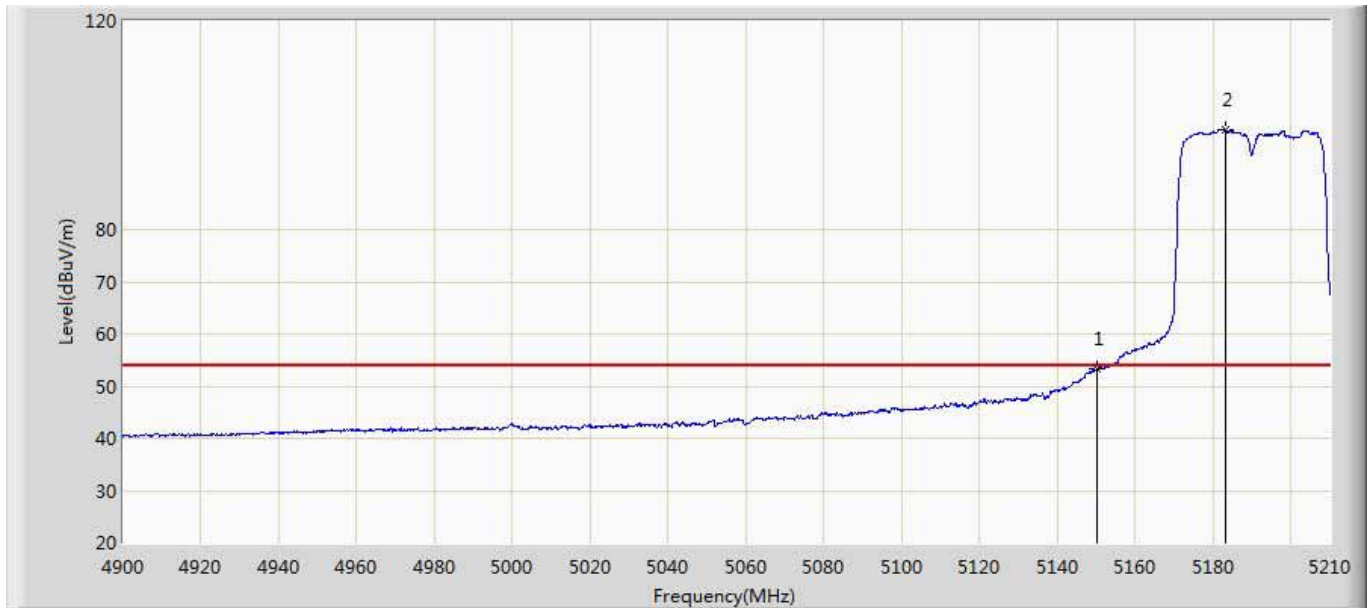
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5823.960	118.199	77.471	-4.001	122.200	40.728	PK
2		5942.490	57.621	16.616	-10.579	68.200	41.005	PK

Engineer: Bruce	
Site: AC5	Time: 2017/02/08 - 19:06
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 9:Transmit at 5825 by 802.11ac20 with Antenna 0+1	



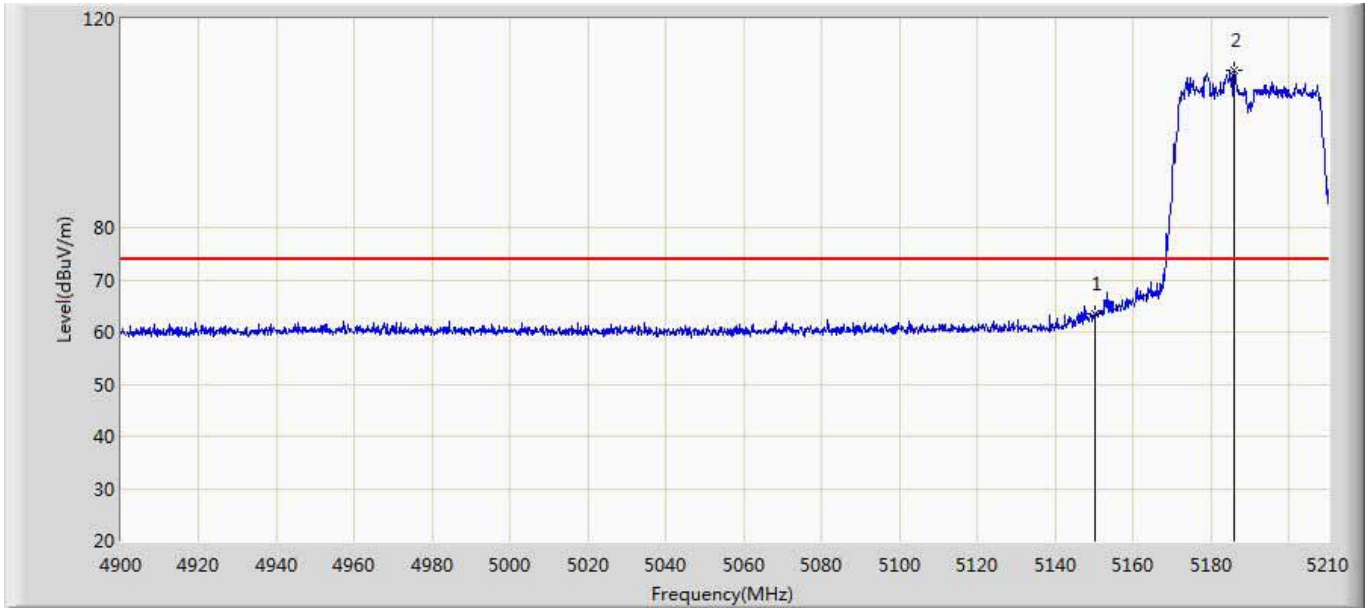
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5825.310	105.415	64.692	-16.785	122.200	40.723	PK
2	*	5946.000	54.645	13.608	-13.555	68.200	41.038	PK

Engineer: Bruce	
Site: AC5	Time: 2017/02/08 - 19:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 10:Transmit at 5190 by 802.11ac40 with Antenna 0+1	



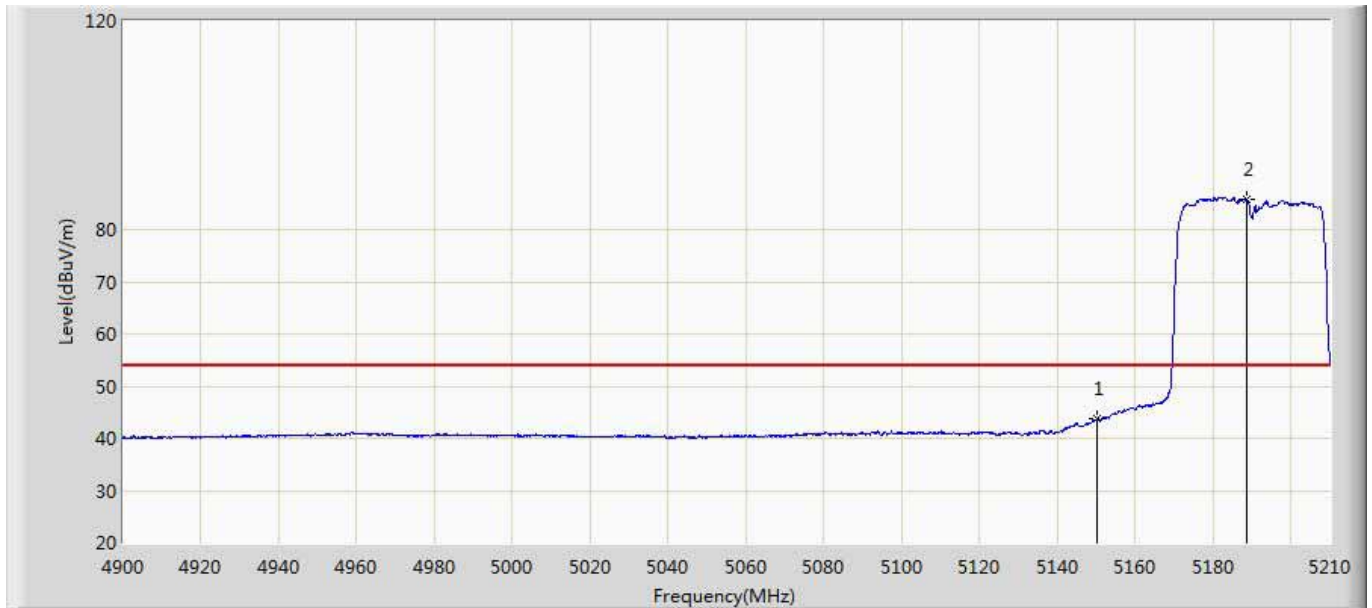
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	53.243	13.709	-0.757	54.000	39.534	AV
2	*	5183.185	99.057	59.492	45.057	54.000	39.564	AV

Engineer: Bruce	
Site: AC5	Time: 2017/02/08 - 19:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 10:Transmit at 5190 by 802.11ac40 with Antenna 0+1	



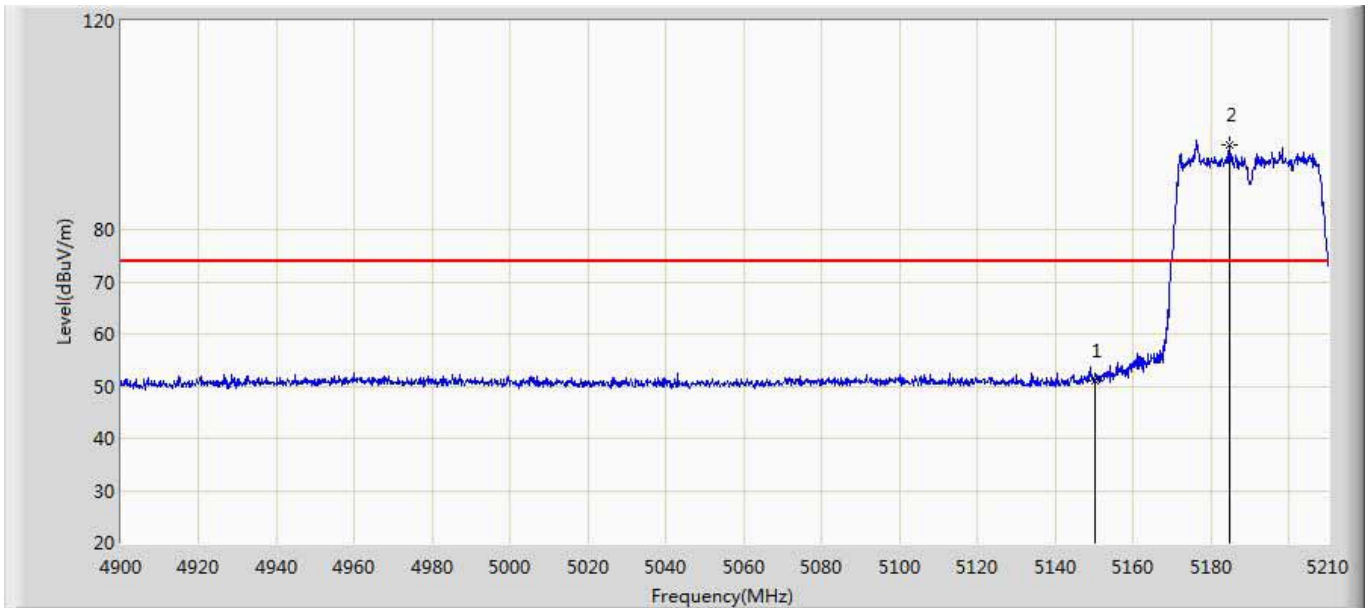
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	63.364	23.830	-10.636	74.000	39.534	PK
2	*	5185.820	110.097	70.508	36.097	74.000	39.589	PK

Engineer: Bruce	
Site: AC5	Time: 2017/02/08 - 19:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 10:Transmit at 5190 by 802.11ac40 with Antenna 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	43.650	4.116	-10.350	54.000	39.534	AV
2	*	5188.455	85.941	46.329	31.941	54.000	39.612	AV

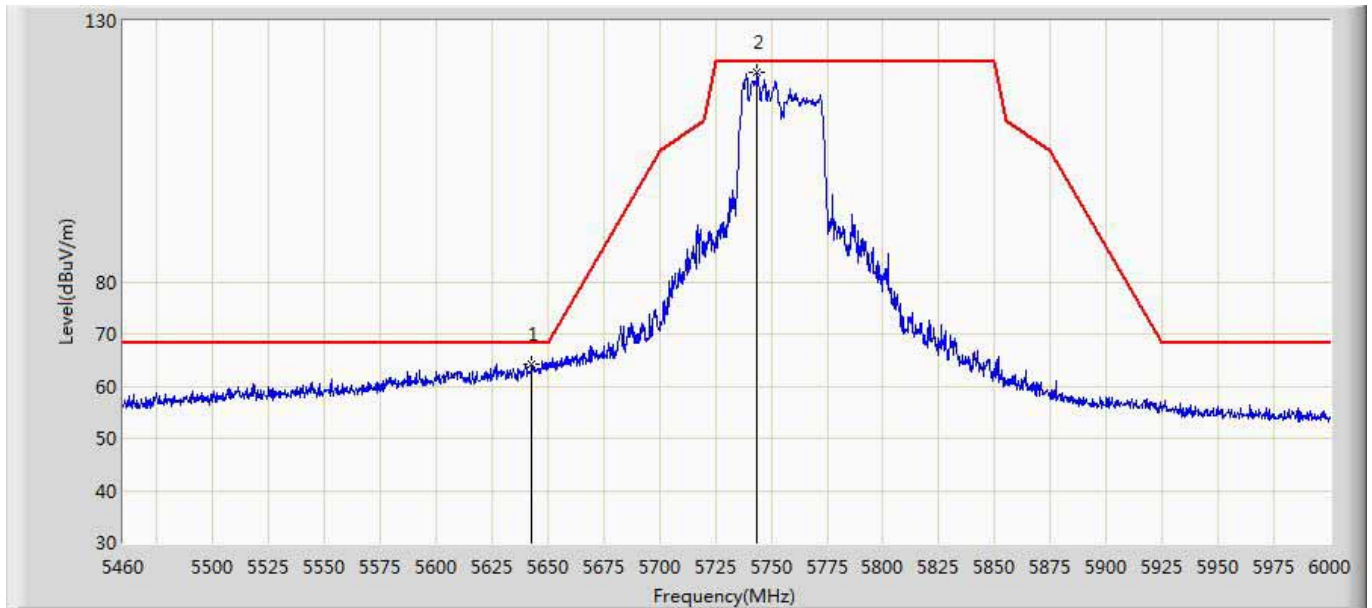
Engineer: Bruce	
Site: AC5	Time: 2017/02/08 - 19:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 10:Transmit at 5190 by 802.11ac40 with Antenna 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	50.965	11.431	-23.035	74.000	39.534	PK
2	*	5184.580	96.118	56.541	22.118	74.000	39.578	PK

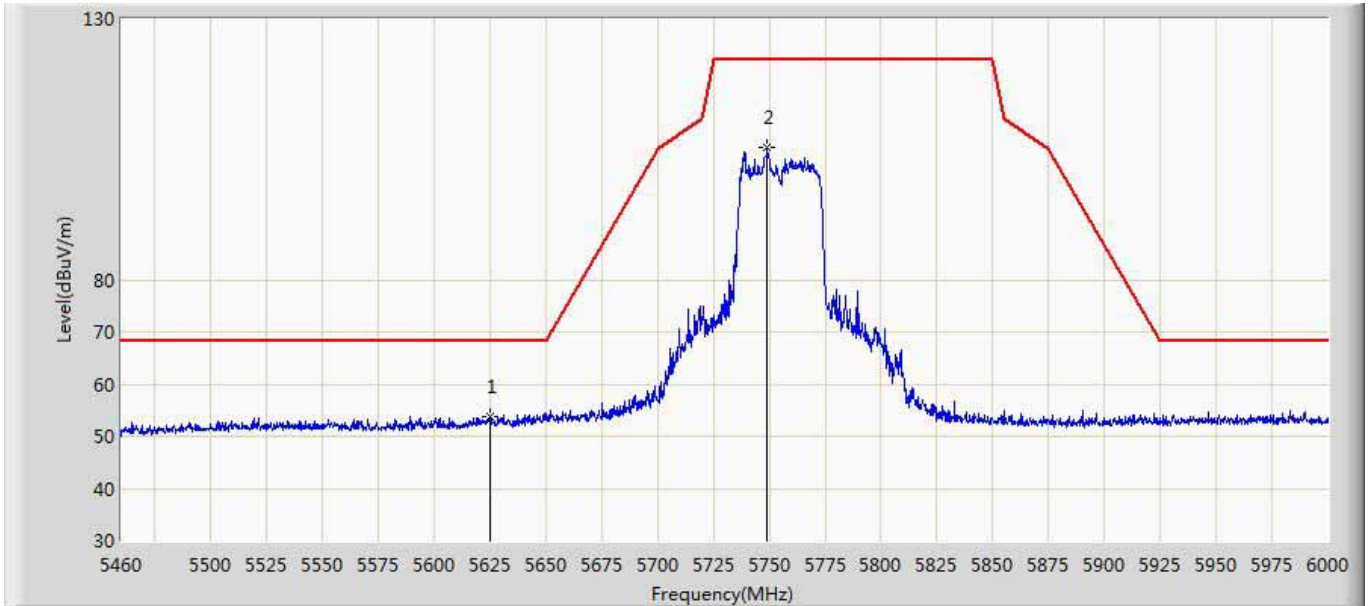


Engineer: Bruce	
Site: AC5	Time: 2017/02/08 - 19:37
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 10:Transmit at 5755 by 802.11ac40 with Antenna 0+1	



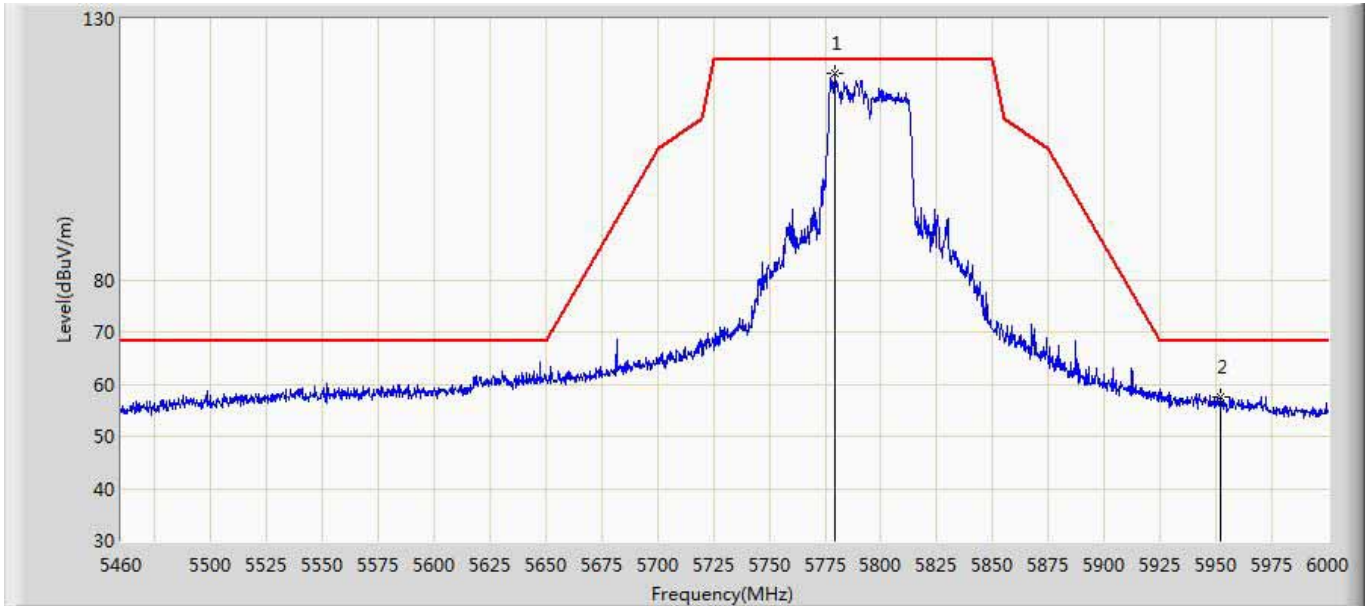
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5642.790	64.114	23.750	-4.086	68.200	40.365	PK
2	*	5743.770	120.115	79.531	-2.085	122.200	40.584	PK

Engineer: Bruce	
Site: AC5	Time: 2017/02/08 - 19:46
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 10:Transmit at 5755 by 802.11ac40 with Antenna 0+1	



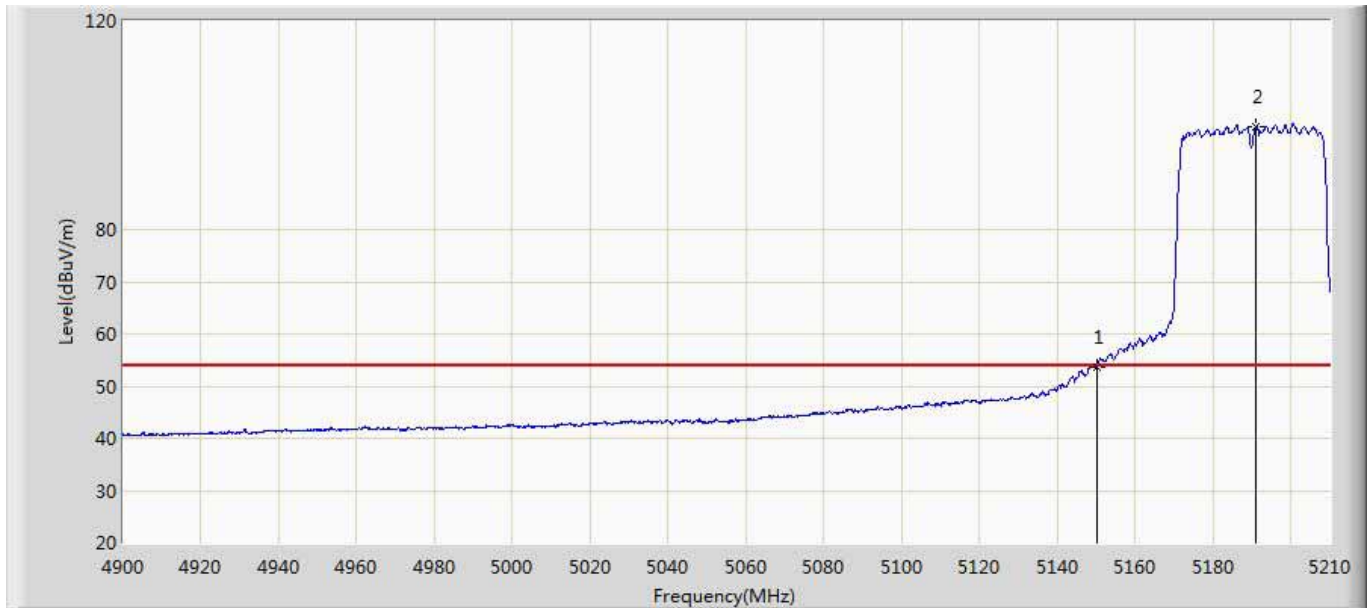
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5625.240	53.866	13.320	-14.334	68.200	40.547	PK
2		5748.900	105.220	64.625	-16.980	122.200	40.595	PK

Engineer: Bruce	
Site: AC5	Time: 2017/02/08 - 19:48
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 10:Transmit at 5795 by 802.11ac40 with Antenna 0+1	



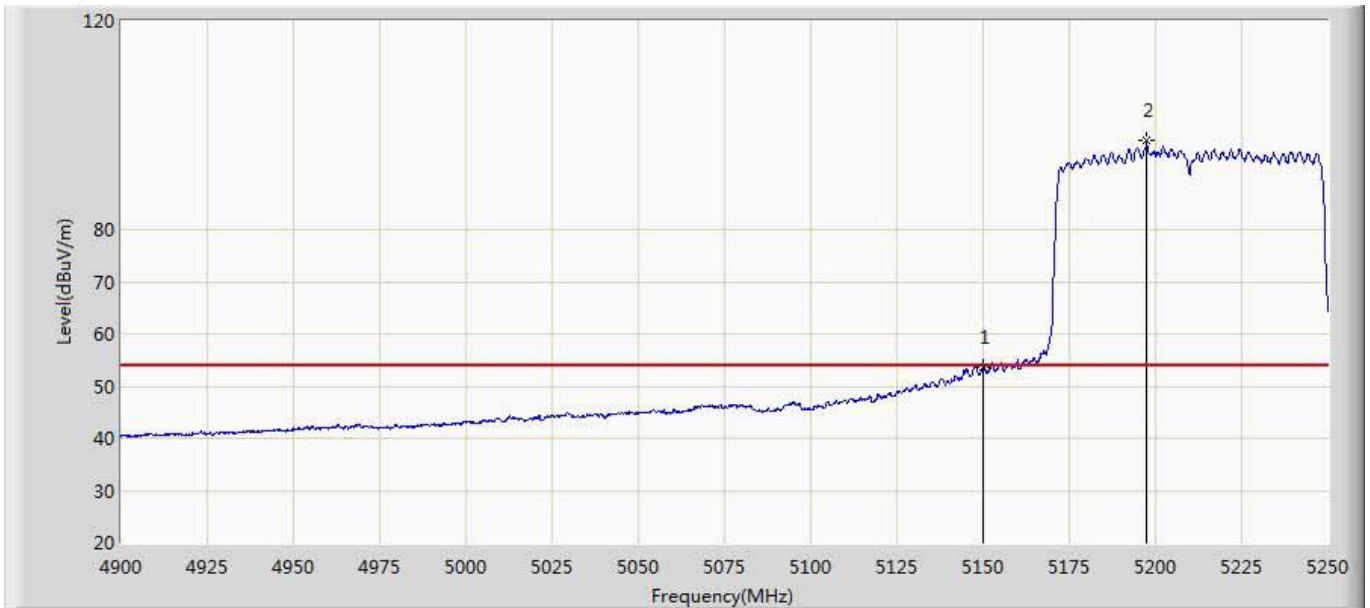
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5779.410	119.432	78.763	-2.768	122.200	40.668	PK
2		5952.210	57.667	16.632	-10.533	68.200	41.034	PK

Engineer: Bruce	
Site: AC5	Time: 2017/02/08 - 19:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 10:Transmit at 5190 by 802.11n40 with Antenna 0+1	



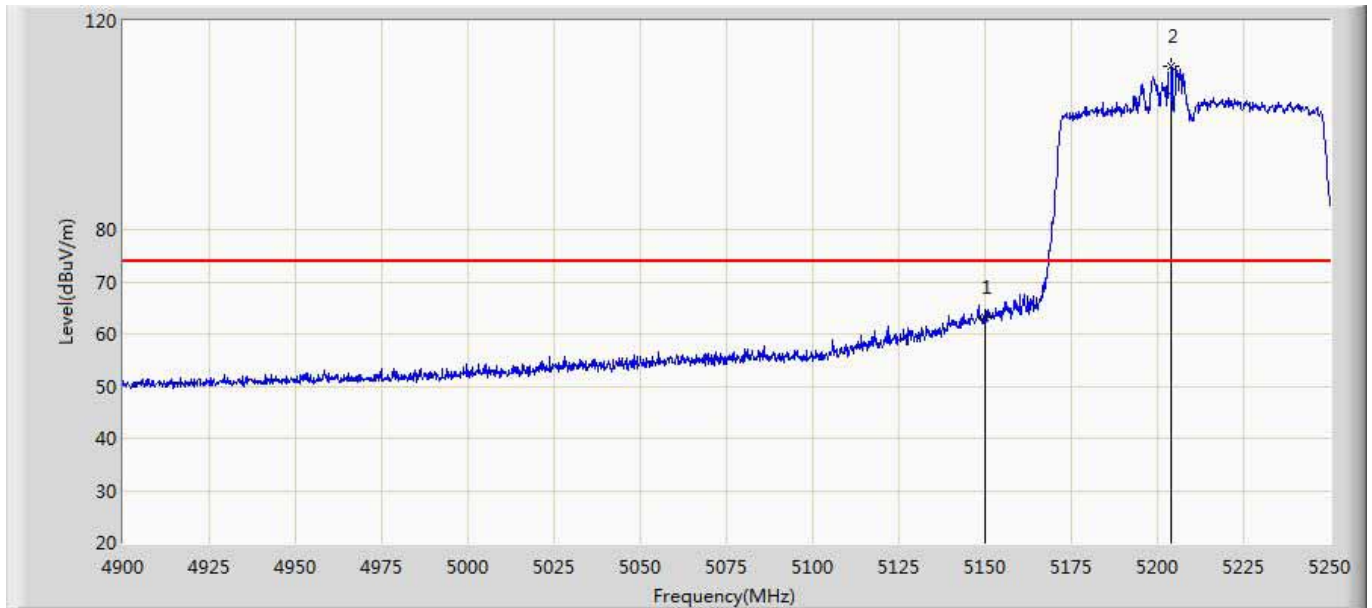
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	53.497	13.963	-0.503	54.000	39.534	AV
2	*	5190.935	99.680	60.045	45.680	54.000	39.635	AV

Engineer: Bruce	
Site: AC5	Time: 2017/02/08 - 20:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 11:Transmit at 5210 by 802.11ac80 with Antenna 0+1	



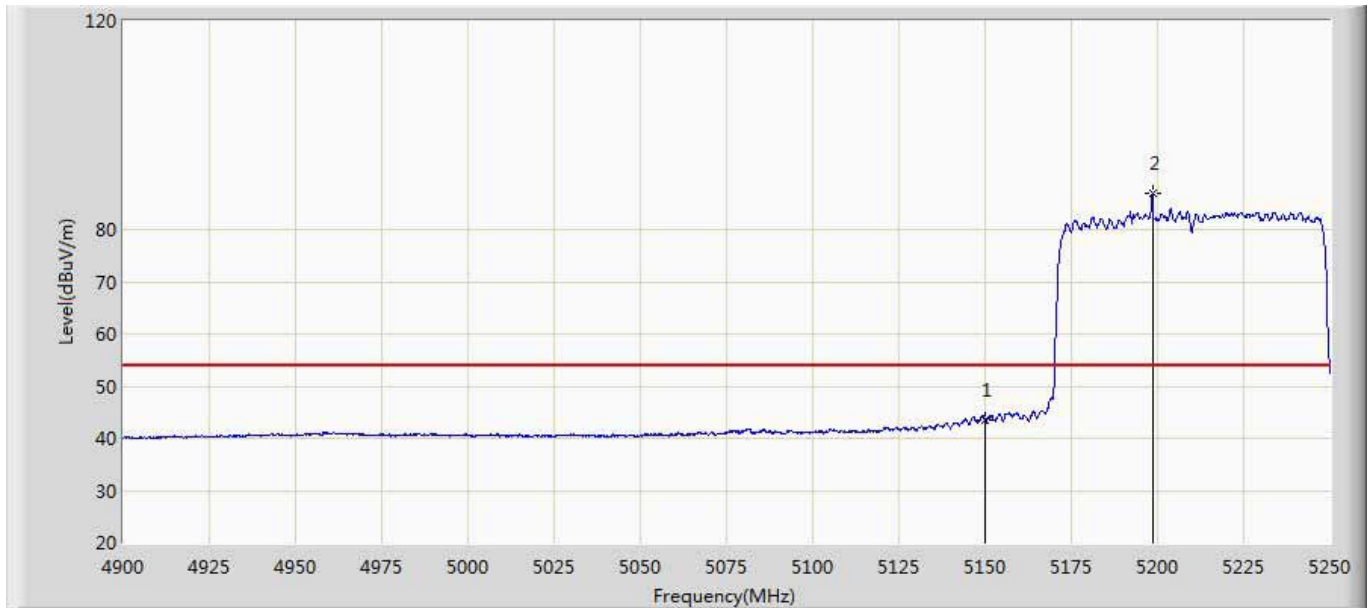
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	53.573	14.039	-0.427	54.000	39.534	AV
2	*	5197.325	97.195	57.502	43.195	54.000	39.693	AV

Engineer: Bruce	
Site: AC5	Time: 2017/02/08 - 20:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 11:Transmit at 5210 by 802.11ac80 with Antenna 0+1	



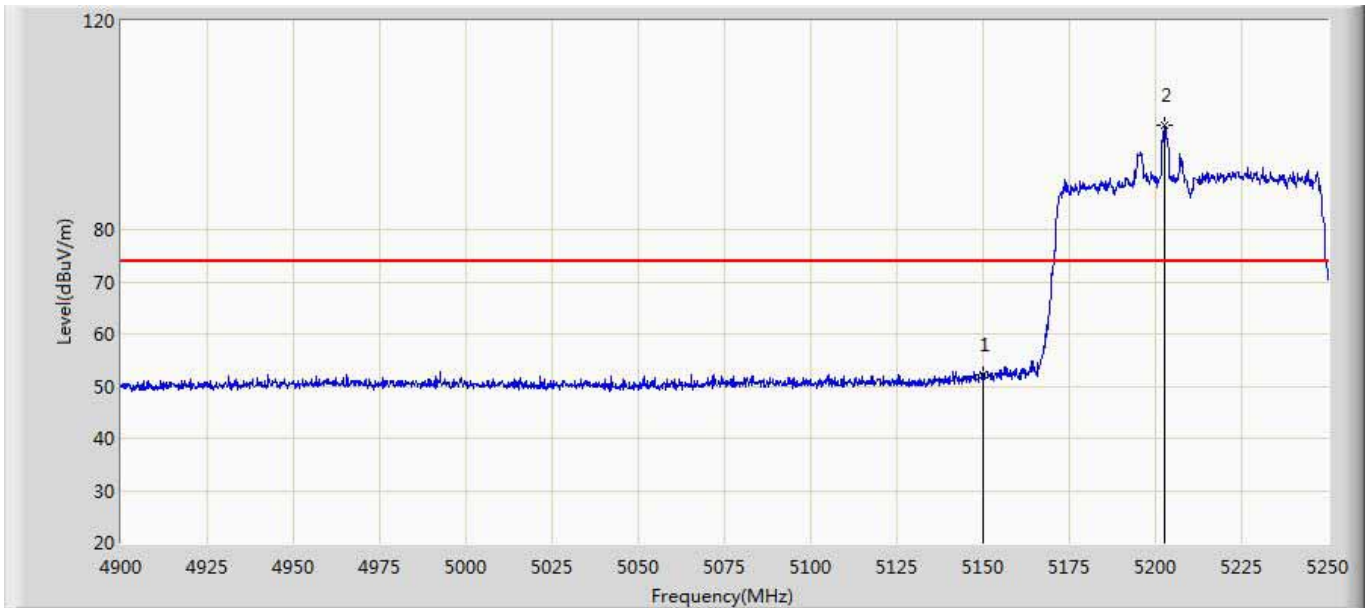
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	63.126	23.592	-10.874	74.000	39.534	PK
2	*	5204.150	111.312	71.603	37.312	74.000	39.709	PK

Engineer: Bruce	
Site: AC5	Time: 2017/02/08 - 20:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 11:Transmit at 5210 by 802.11ac80 with Antenna 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	43.462	3.928	-10.538	54.000	39.534	AV
2	*	5198.550	86.920	47.216	32.920	54.000	39.705	AV

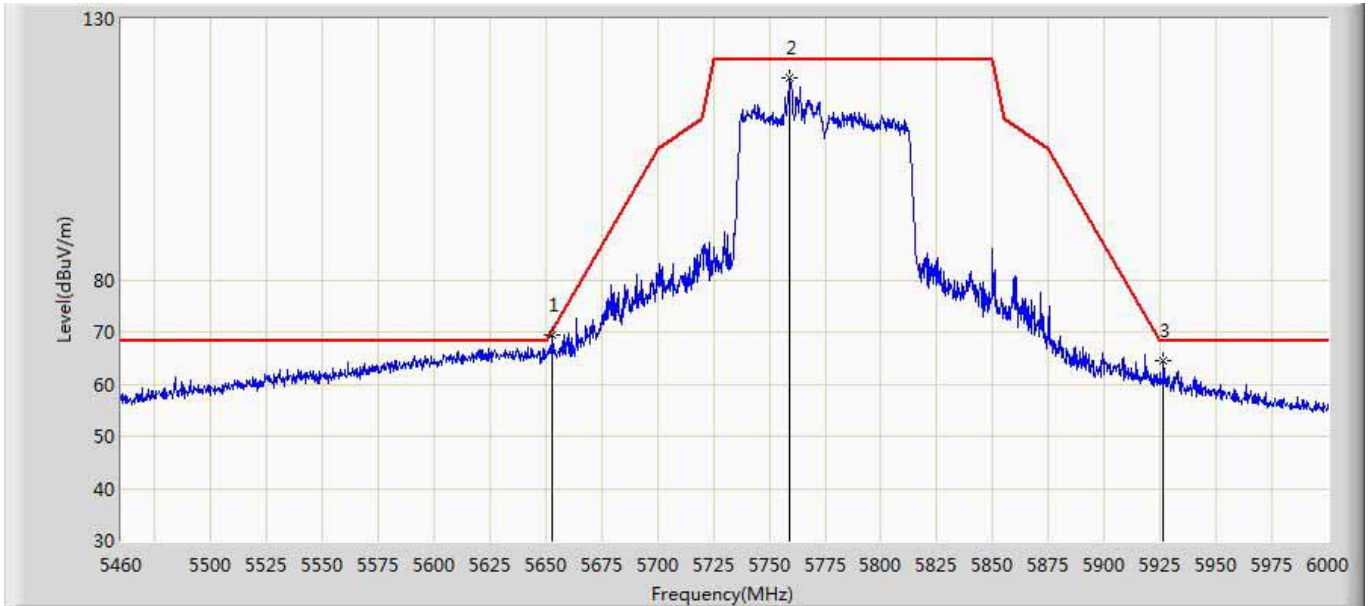
Engineer: Bruce	
Site: AC5	Time: 2017/02/08 - 20:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 11:Transmit at 5210 by 802.11ac80 with Antenna 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	52.092	12.558	-21.908	74.000	39.534	PK
2	*	5202.750	99.936	60.227	25.936	74.000	39.709	PK

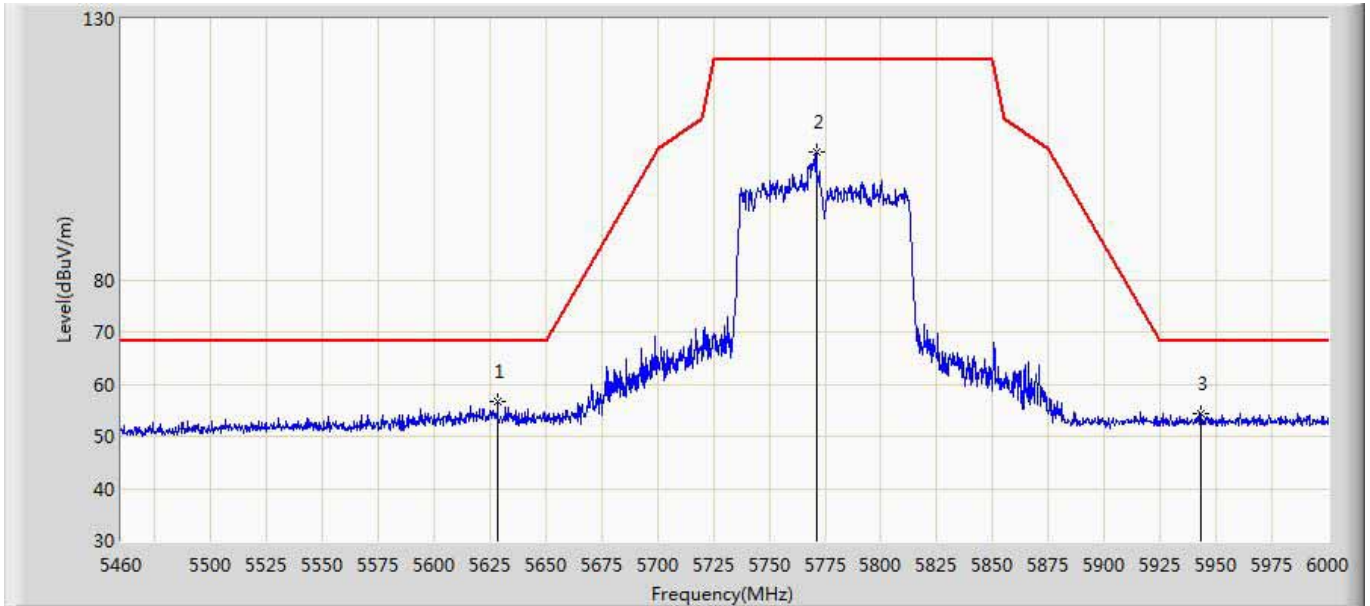


Engineer: Bruce	
Site: AC5	Time: 2017/02/08 - 20:45
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 11:Transmit at 5775 by 802.11ac80 with Antenna 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5653.050	69.384	28.935	-1.073	70.457	40.449	PK
2		5759.430	118.654	78.035	-3.546	122.200	40.619	PK
3		5926.560	64.427	23.504	-3.773	68.200	40.923	PK

Engineer: Bruce	
Site: AC5	Time: 2017/02/08 - 20:45
Limit: FCC-15.407 new new	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC1200 Wireless Dual Band Gigabit Router	Power: AC 120V/60Hz
Note: Mode 11:Transmit at 5775 by 802.11ac80 with Antenna 0+1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5628.480	56.542	16.036	-11.658	68.200	40.506	PK
2		5771.040	104.518	63.877	-17.682	122.200	40.642	PK
3		5943.030	54.422	13.412	-13.778	68.200	41.009	PK

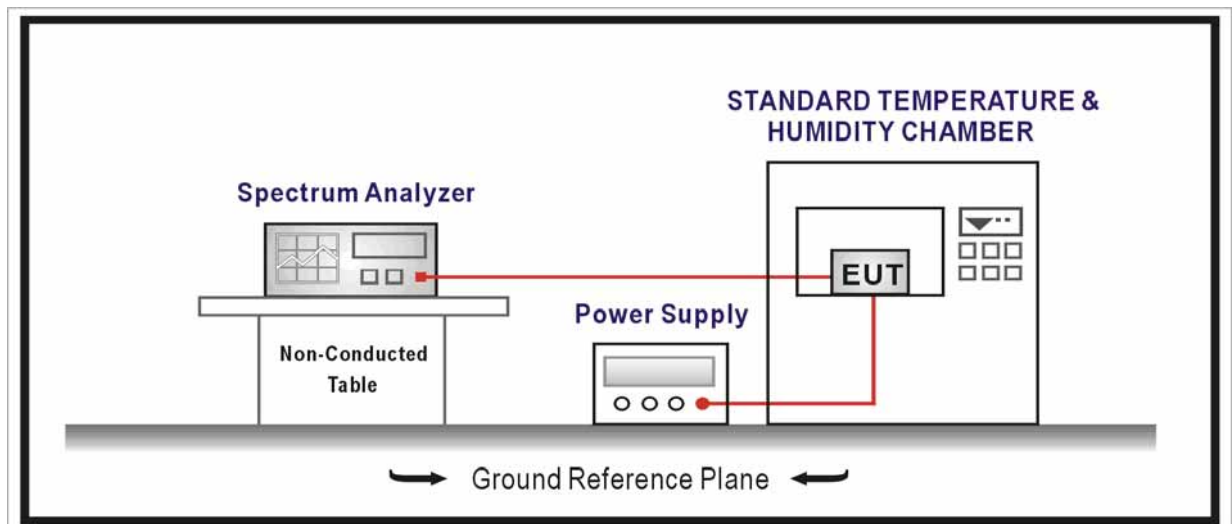
## 10. Frequency Stability

### 10.1. Test Equipment

Frequency Stability / TR-7					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2017.02.04	2018.01.15
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2016.04.09	2017.04.09
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2016.04.09	2017.04.09
AC Power Supply	IDRC	CF-500TP	979422	2016.09.16	2017.09.16
DC Power Supply	IDRC	CD-035-020PR	977272	2016.09.16	2017.09.16
Programmable Temperature & Humidity Chamber	Gaoyu	TH-1P-B	WIT-05121302	2017.01.04	2018.01.03
Temperature/Humidity Meter	zhichen	ZC1-2	TR7-TH	2016.04.10	2017.04.10

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 10.2. Test Setup



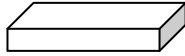
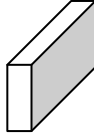
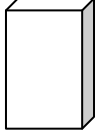

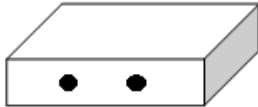

**10.3. Limit**

Frequency Stability Limit	
UNII Devices	
<input checked="" type="checkbox"/>	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	
<input checked="" type="checkbox"/>	The transmitter center frequency tolerance shall be $\pm 20$ ppm maximum for the 5 GHz band and $\pm 25$ ppm maximum for the 2.4 GHz band.

### 10.4. Test Procedure

Frequency Stability Test Method			
	References Rule	Chapter	Description
<input checked="" type="checkbox"/>	ANSI C63.10	6.8	Frequency stability tests
	<input checked="" type="checkbox"/> ANSI C63.10	6.8.1	Frequency stability with respect to ambient temperature
	<input checked="" type="checkbox"/> ANSI C63.10	6.8.2	Frequency stability when varying supply voltage

**10.5. EUT test Axis definition**

Item	Frequency Stability			
Device Category	<input type="checkbox"/>	Outdoor AP		
	<input checked="" type="checkbox"/>	Indoor AP		
	<input type="checkbox"/>	Fixed point-to-point AP		
	<input type="checkbox"/>	Outdoor fixed point-to-multipoint AP		
	<input type="checkbox"/>	Client		
Test mode	Mode 1-11			
Test method	<input type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>
	<input checked="" type="checkbox"/>	Conducted		
	<input type="checkbox"/>	Chain 1		
				
	<input checked="" type="checkbox"/>	Chain 1	Chain 2	
				
	<input type="checkbox"/>	Chain 1	Chain 2	Chain 3
				

**10.6. Test Result**

Product Name	: AC1200 Wireless Dual Band Gigabit Router	Power	: 120V/60Hz
Model No.	: Archer C1200	Test Site	: TR7
Test Mode	: Carrier Wave	Test Date	: 2016.12.07

**Frequency Stability under Temperature**

Temperature Interval ( )	Test Frequency (MHz)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
-30	5180.000	121	0.02	± 20
-20	5180.000	-111	0.02	± 20
-10	5180.000	-152	0.03	± 20
0	5180.000	116	0.02	± 20
10	5180.000	-96	0.02	± 20
20	5180.000	-89	0.02	± 20
30	5180.000	108	0.02	± 20
40	5180.000	101	0.02	± 20
50	5180.000	-125	0.02	± 20
-30	5785.000	118	0.02	± 20
-20	5785.000	156	0.03	± 20
-10	5785.000	121	0.02	± 20
0	5785.000	126	0.02	± 20
10	5785.000	-86	0.01	± 20
20	5785.000	-98	0.02	± 20
30	5785.000	256	0.04	± 20
40	5785.000	182	0.03	± 20
50	5785.000	162	0.03	± 20

**Frequency Stability under Voltage**

AC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
102	5180.000	121	0.02	± 20
120	5180.000	101	0.02	± 20
138	5180.000	112	0.02	± 20
102	5785.000	115	0.02	± 20
120	5785.000	119	0.02	± 20
138	5785.000	-156	0.03	± 20

## 11. Antenna Requirement

### 11.1. Limit

Antenna Requirement Limit	
<p>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.</p>	

### 11.2. Antenna Connector Construction

Antenna Connector Construction	
<input checked="" type="checkbox"/>	The use of a permanently attached antenna
<input type="checkbox"/>	The antenna use of a unique coupling to the intentional radiator
<input type="checkbox"/>	The use of a nonstandard antenna jack or electrical connector
Please refer to the attached document "Internal Photograph" to show the antenna connector.	

\_\_\_\_\_ The End \_\_\_\_\_