



中国认可  
国际互认  
检测  
TESTING  
CNAS L5313



# Test Report

## FCC Part15 Subpart C

Product Name : 300Mbps Wireless N Access Point  
Model No. : TL-WA801ND  
FCC ID : TE7WA801NDV4

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 : Aug. 16, 2016  
Test Date : Aug. 16, 2016~ Sep. 07, 2016  
Issued Date : Nov. 03, 2016  
Report No. : 1682069R-RF-US-P06V01  
Report Version : V1.3

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 : Nov. 03, 2016

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Applicant : TP-LINK TECHNOLOGIES CO., LTD.  
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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. : TL-WA801ND  
FCC ID : TE7WA801NDV4  
EUT Voltage : 9V/0.6A  
Brand Name : TP-LINK  
Applicable Standard : FCC CFR Title 47 Part 15 Subpart C  
ANSI C63.4:2014; ANSI C63.10:2013;  
KDB 558074 D01v03r05  
KDB 662911 D01 Multiple Transmitter Output v02r01  
Test Result : Complied  
Performed Location : Quietek 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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## Laboratory Information

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

<b>Taiwan R.O.C.</b>	<b>:</b>	<b>BSMI, NCC, TAF</b>
<b>USA</b>	<b>:</b>	<b>FCC</b>
<b>Japan</b>	<b>:</b>	<b>VCCI</b>
<b>China</b>	<b>:</b>	<b>CNAS</b>

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site : <http://www.quietek.com/english/about/certificates.aspx?bval=5>  
The address and introduction of Quietek Corporation's laboratories can be founded in our Web site : [http://www.quietek.com/index\\_en.aspx](http://www.quietek.com/index_en.aspx)

If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

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## History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
1682069R-RF-US-P06V01	V1.0	Initial Issued Report	Sep. 07, 2016
1682069R-RF-US-P06V01	V1.1	1) Added data for band edge from Page 93 to Page 124 2) Added data for power setting on Page 13 3) Added data for power on Page 135	Oct. 18, 2016
1682069R-RF-US-P06V01	V1.2	1) Page 135, Updates Antenna Gain. 2) Page 140, Updates the PSD Data	Oct. 27, 2016
1682069R-RF-US-P06V01	V1.3	Modified the CH06 data about Band edge	Nov.03, 2016

## 1. General Information

### 1.1. EUT Description

Product Name	300Mbps Wireless N Access Point
Brand Name	TP-LINK
Model No.	TL-WA801ND
EUT Voltage	9V/0.6A
Frequency Range	For 2.4GHz Band 802.11b/g/n(20MHz): 2412~2462MHz 802.11n(40MHz): 2422~2452MHz
Channel Number	For 2.4GHz Band 802.11b/g/n(20MHz): 11 802.11n(40MHz): 7
Type of Modulation	802.11b: DSSS 802.11g: OFDM
Data Rate	802.11g: 6/9/12/18/24/36/48/54 Mbps 802.11b: 1/2/5.5/11 Mbps 802.11n: up to 300 Mbps
Channel Control	Auto

### 1.2. Working Frequency of Each Channel:

802.11b/g/n(20MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz	04	2427 MHz
05	2432 MHz	06	2437 MHz	07	2442 MHz	08	2447 MHz
09	2452 MHz	10	2457 MHz	11	2462 MHz	N/A	N/A
802.11n(40MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
03	2422 MHz	04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz	N/A	N/A

**1.3. Antenna information**

Model No.	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 checked="" type="checkbox"/> Basic		
		<input checked="" type="checkbox"/> CDD		
		<input type="checkbox"/> Sectorized		
		<input type="checkbox"/> Beam-forming		
Antenna Type	<input checked="" type="checkbox"/> External	<input checked="" type="checkbox"/> Dipole		
		<input type="checkbox"/> Sectorized		
	<input type="checkbox"/> Internal	<input type="checkbox"/> PIFA		
		<input type="checkbox"/> PCB		
		<input type="checkbox"/> Ceramic Chip Antenna		
		<input type="checkbox"/> Metal plate type F antenna		
	Antenna Technology	Ant Gain (dBi)	Directional Gain (dBi)	
			For Power	For PSD
<input checked="" type="checkbox"/> MIMO	2	2	5	



### 1.4. Mode of Operation

Test Modes List
Mode 1: Transmit by 802.11b
Mode 2: Transmit by 802.11g
Mode 3: Transmit by 802.11n(20MHz)
Mode 4: Transmit by 802.11n(40MHz)

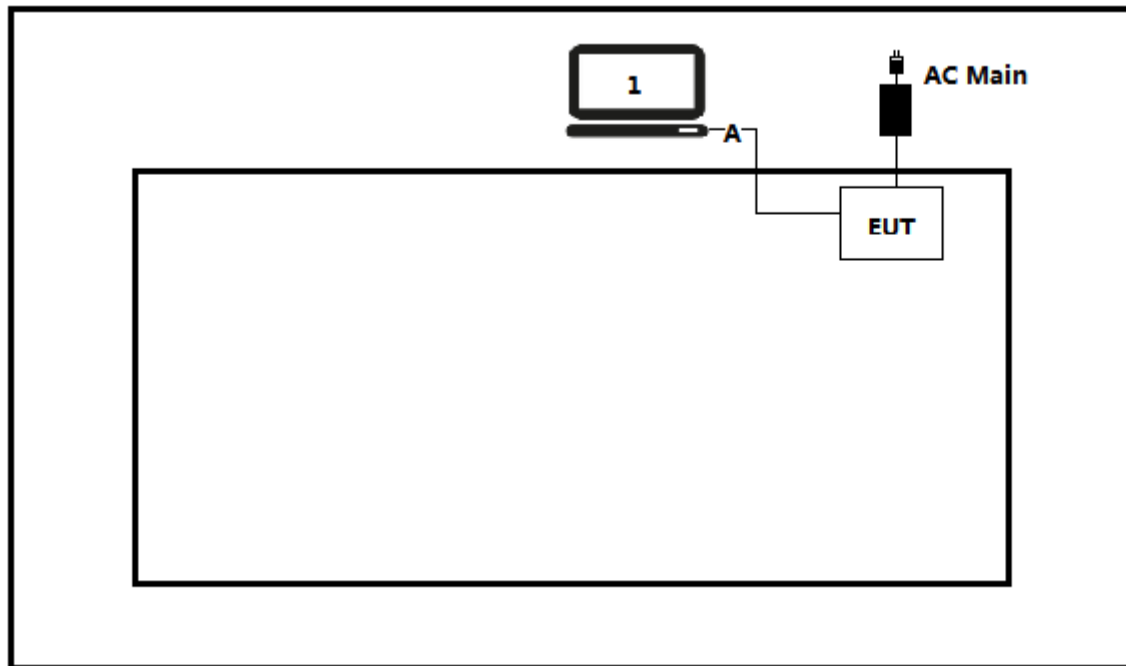
### 1.5. Tested System Details

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

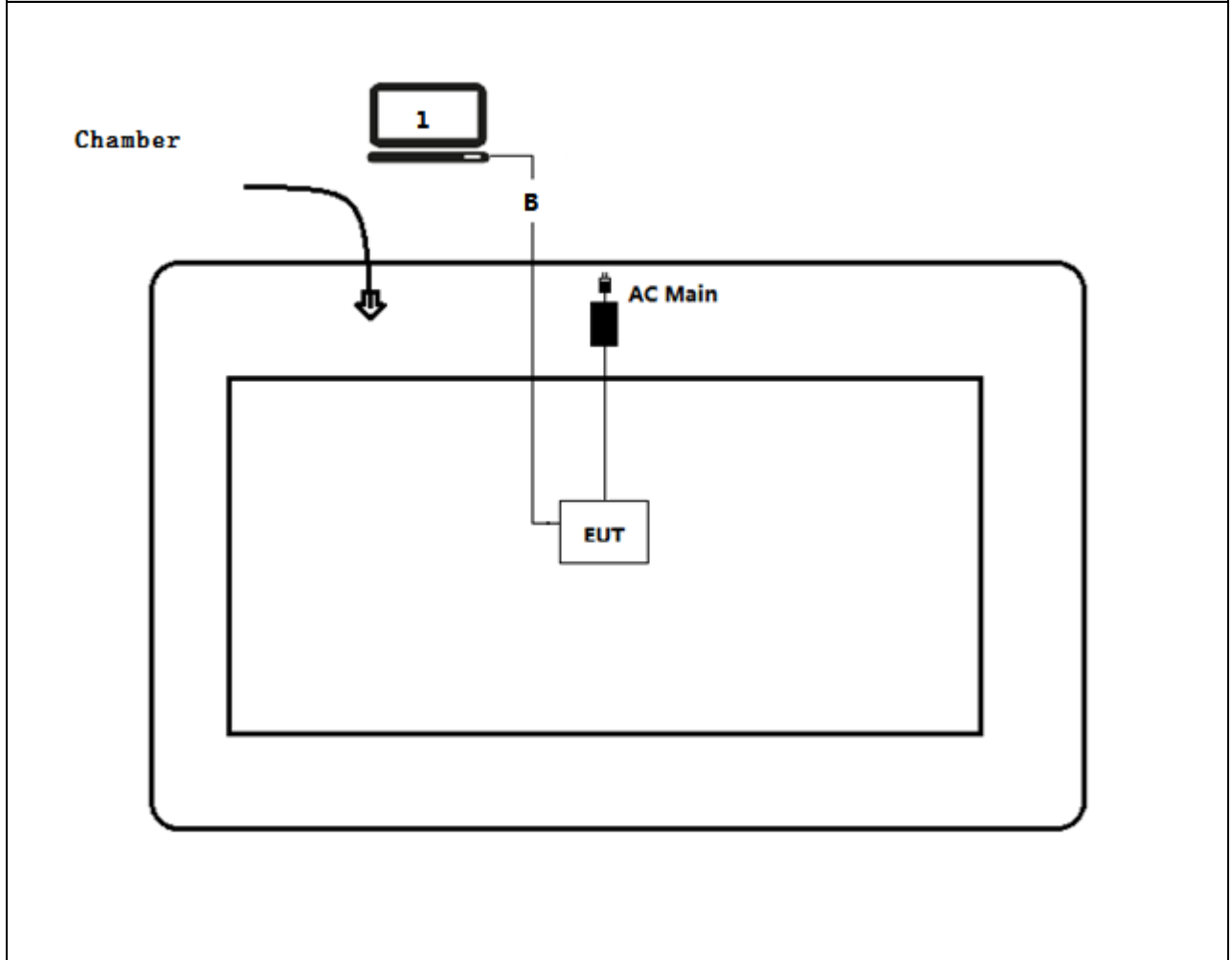
No.	Product	Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook	Lenovo	Think pad x220	SUA0600195	Non-shielded
A	LAN cable	N/A	N/A	N/A	Non-shielded, 1.5m
B	LAN cable	N/A	N/A	N/A	Non-shielded, 10m

## 1.6. Configuration of Tested System

Test setup Diagram- AC Line Conducted Emission Test



Test setup Diagram- Radiated Emission



## 2. Technical Test

### 2.1. Summary of Test Result

Performed Test Item	Normative References	Limit	Result
AC Power Line Conducted Emission	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.207	FCC 15.207	PASS
Emissions in restricted frequency bands	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.209	FCC 15.209	PASS
Emissions in non-restricted frequency bands	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.247(d)	30dBc	PASS
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart C: 2015 15.247(d)	FCC 15.209	PASS
Occupied Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.247(a)(2)	500kHz	PASS
Fundamental emission output power	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.247(b)(3)	30dBm	PASS
Power Spectral Density	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.247(e)	8dBm/3kHz	PASS

### 2.2. Test Frequency configuration:

Modulation Mode	Channel	Frequency	Channel	Frequency	Channel	Frequency
802.11b	01	2412 MHz	06	2437 MHz	11	2462MHz
802.11g	01	2412 MHz	06	2437 MHz	11	2462MHz
802.11n(20MHz)	01	2412 MHz	06	2437 MHz	11	2462MHz
802.11n(40MHz)	03	2422 MHz	06	2437 MHz	09	2452MHz

### 2.3. Power setting parameter

Test Software	ART 2	
Modulation Mode	Test Frequency	Ant 0+1
802.11b	2412	18
	2417	19
	2437	19
	2457	17
	2462	16
802.11g	2412	13
	2417	17
	2437	17
	2457	16
	2462	13
802.11n(20MHz)	2412	13
	2417	17
	2437	18
	2457	16
	2462	12
802.11n(40MHz)	2412	9
	2417	11
	2437	13
	2457	11
	2462	10

## 2.4. Power vs Data Rate

MCS Index for 802.11n	Spatial Streams	Data Rate (Mbps)						
		802.11b	802.11g		20MHz Bandwidth		40MHz Bandwidth	
					800ns GI	400ns GI	800ns GI	400ns GI
0	1	1	6	---	6.5	7.2	13.5	15.0
1	1	2	9	---	13.0	14.4	27.0	30.0
2	1	5.5	12	---	19.5	21.7	40.5	45.0
3	1	11	18	---	26.0	28.9	54.0	60.0
4	1	---	24	---	39.0	43.3	81.0	90.0
5	1	---	36	---	52.0	57.8	108.0	120.0
6	1	---	48	---	58.5	65.0	121.5	135.0
7	1	---	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

Note 2 : The EUT has two spatial Streams

## 2.5. 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

## 2.6. Measurement Uncertainty

Test Items	Uncertainty
AC Power Line Conducted Emission	$\pm 2.02\text{dB}$
Radiated Emission	Below 1GHz $\pm 3.8\text{ dB}$
	Above 1GHz $\pm 3.9\text{ dB}$
RF Antenna Port Conducted Emission	$\pm 1.27\text{dB}$
Radiated Emission Band Edge	$\pm 3.9\text{dB}$
Occupied Bandwidth	$\pm 1\text{kHz}$
Power Spectral Density	$\pm 1.27\text{dB}$

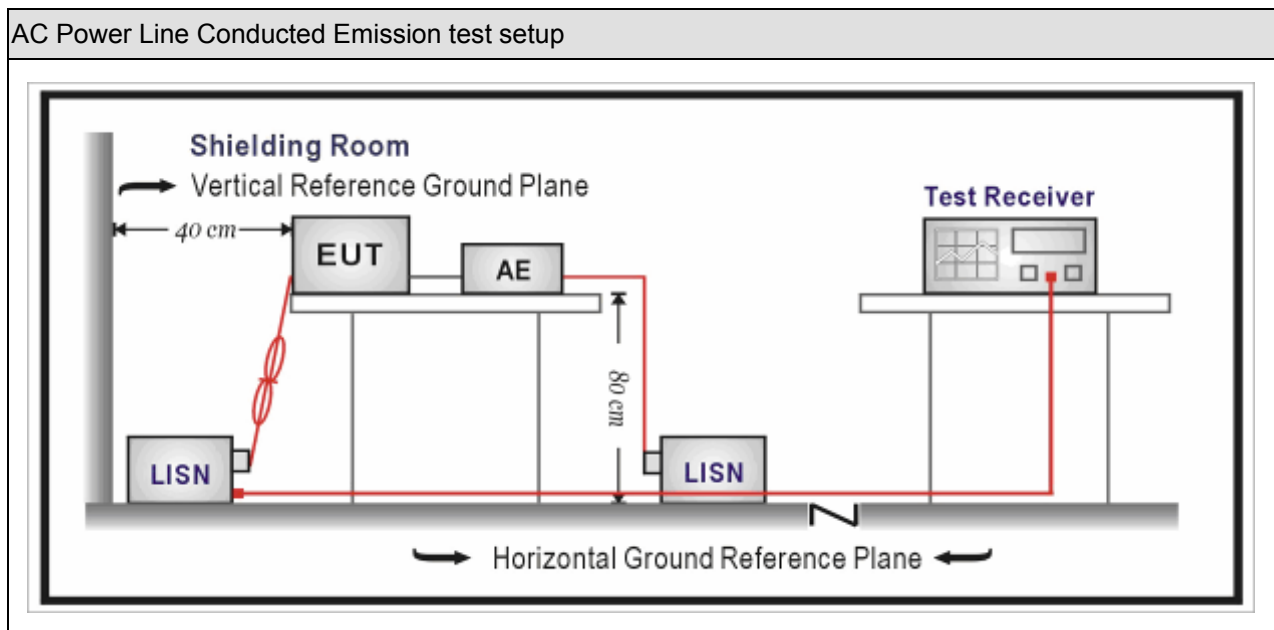
### 3. AC Power Line Conducted Emission

#### 3.1. Test Equipment

AC Power Line 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	2017.03.05
Two-Line V-Network	R&S	ENV 216	101189	2016.07.16	2017.07.16
Two-Line V-Network	R&S	ENV 216	101044	2015.09.16	2016.09.16
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	N/A	N/A
50ohm Termination	SHX	TF2	07081402	2015.09.16	2016.09.16
Temperature/Humidity Meter	Zhichen	ZC1-2	TR1-TH	2016.01.05	2017.01.05

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 of Emission (MHz)	Conducted Limit	
	Quasi-peak (dB $\mu$ V)	Average (dB $\mu$ V)
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

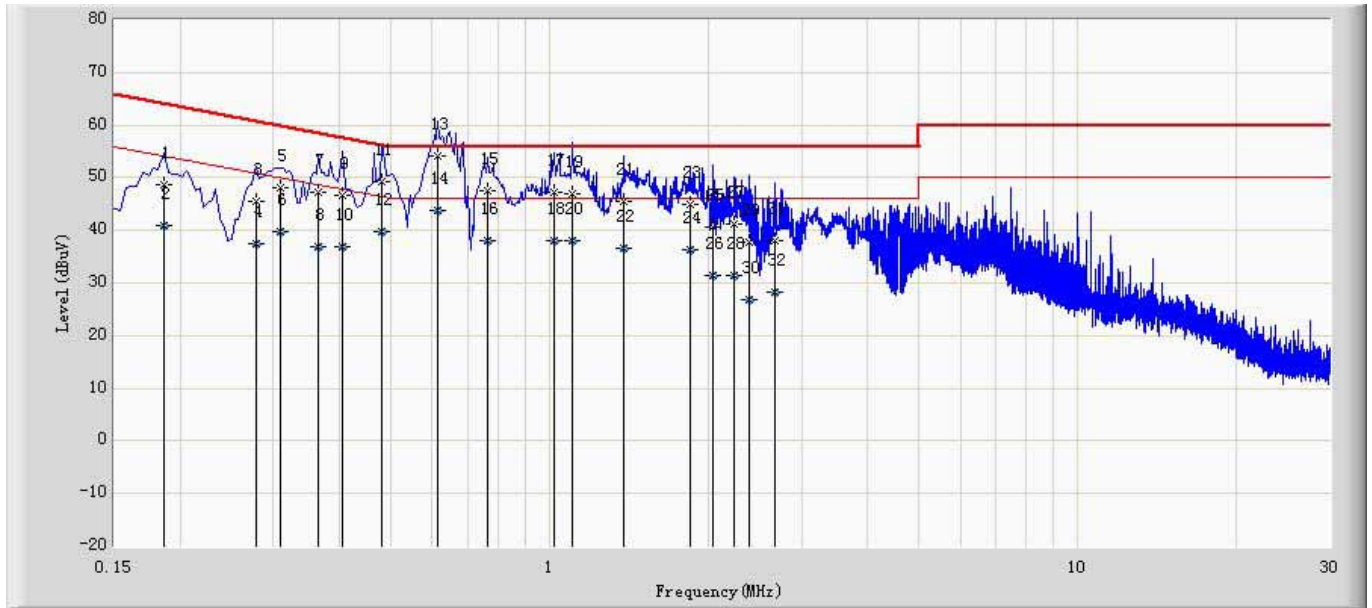
Note 1: The lower limit shall apply at the transition frequencies.  
 Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

### 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

Site:TR1	Time: 2016/08/18
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216-L1	Polarity: Line
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 1	



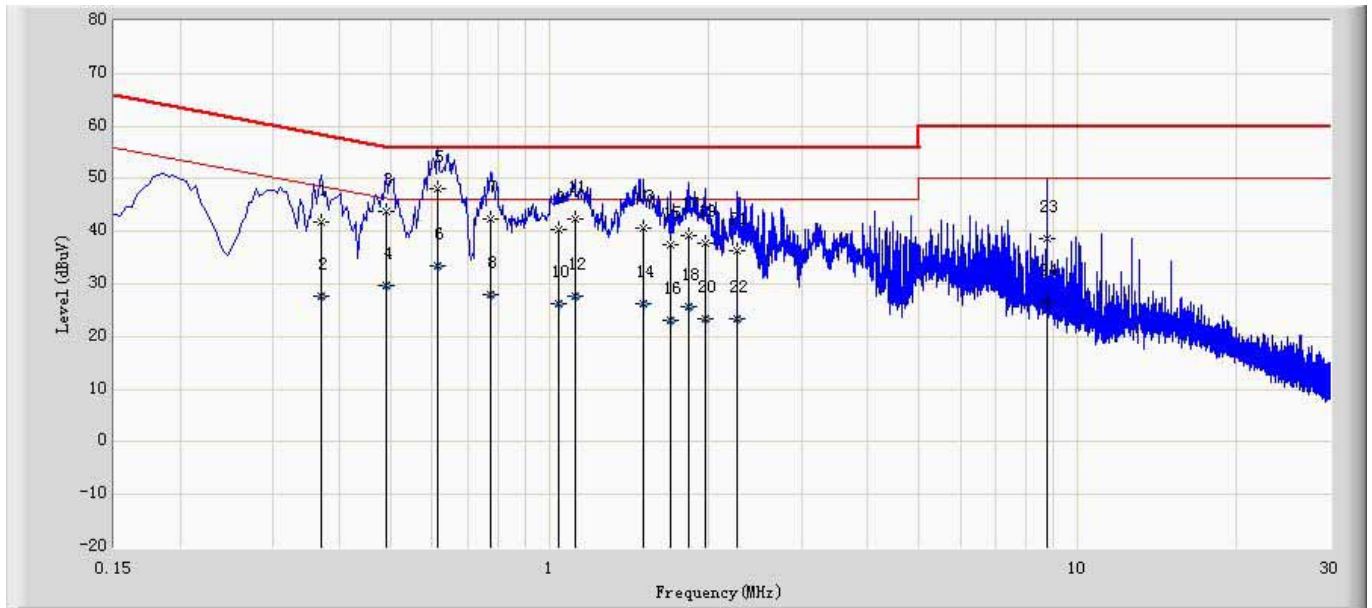
No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.186	48.735	39.023	-15.478	64.213	9.652	0.060	0.000	QP
2		0.186	40.880	31.168	-13.333	54.213	9.652	0.060	0.000	AV
3		0.278	45.586	35.886	-15.289	60.875	9.640	0.060	0.000	QP
4		0.278	37.365	27.665	-13.510	50.875	9.640	0.060	0.000	AV
5		0.310	48.057	38.357	-11.913	59.970	9.640	0.060	0.000	QP
6		0.310	39.767	30.067	-10.203	49.970	9.640	0.060	0.000	AV
7		0.366	47.244	37.544	-11.347	58.591	9.640	0.060	0.000	QP
8		0.366	37.012	27.312	-11.579	48.591	9.640	0.060	0.000	AV
9		0.406	46.562	36.859	-11.168	57.730	9.638	0.066	0.000	QP
10		0.406	36.875	27.172	-10.855	47.730	9.638	0.066	0.000	AV
11		0.482	49.217	39.517	-7.088	56.305	9.630	0.070	0.000	QP
12		0.482	39.781	30.081	-6.524	46.305	9.630	0.070	0.000	AV
13	*	0.614	54.119	44.429	-1.881	56.000	9.620	0.070	0.000	QP
14		0.614	43.730	34.040	-2.270	46.000	9.620	0.070	0.000	AV
15		0.766	47.509	37.819	-8.491	56.000	9.620	0.070	0.000	QP
16		0.766	37.952	28.262	-8.048	46.000	9.620	0.070	0.000	AV

17		1.018	47.328	37.618	-8.672	56.000	9.630	0.080	0.000	QP
18		1.018	37.916	28.206	-8.084	46.000	9.630	0.080	0.000	AV
19		1.106	46.899	37.189	-9.101	56.000	9.630	0.080	0.000	QP
20		1.106	37.966	28.256	-8.034	46.000	9.630	0.080	0.000	AV
21		1.386	45.423	35.703	-10.577	56.000	9.630	0.090	0.000	QP
22		1.386	36.495	26.775	-9.505	46.000	9.630	0.090	0.000	AV
23		1.842	44.911	35.174	-11.089	56.000	9.640	0.097	0.000	QP
24		1.842	36.220	26.483	-9.780	46.000	9.640	0.097	0.000	AV
25		2.034	40.667	30.927	-15.333	56.000	9.640	0.100	0.000	QP
26		2.034	31.552	21.812	-14.448	46.000	9.640	0.100	0.000	AV
27		2.238	41.163	31.423	-14.837	56.000	9.640	0.100	0.000	QP
28		2.238	31.567	21.827	-14.433	46.000	9.640	0.100	0.000	AV
29		2.390	37.632	27.882	-18.368	56.000	9.640	0.110	0.000	QP
30		2.390	26.940	17.190	-19.060	46.000	9.640	0.110	0.000	AV
31		2.666	37.965	28.205	-18.035	56.000	9.650	0.110	0.000	QP
32		2.666	28.378	18.618	-17.622	46.000	9.650	0.110	0.000	AV

Note:

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

Site:TR1	Time: 2016/08/18
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216-N	Polarity: Neutral
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.370	41.779	32.079	-16.722	58.501	9.640	0.060	0.000	QP
2		0.370	27.615	17.915	-20.886	48.501	9.640	0.060	0.000	AV
3		0.490	43.856	34.156	-12.312	56.168	9.630	0.070	0.000	QP
4		0.490	29.811	20.111	-16.357	46.168	9.630	0.070	0.000	AV
5	*	0.614	48.064	38.354	-7.936	56.000	9.640	0.070	0.000	QP
6		0.614	33.376	23.666	-12.624	46.000	9.640	0.070	0.000	AV
7		0.774	42.346	32.636	-13.654	56.000	9.640	0.070	0.000	QP
8		0.774	27.960	18.250	-18.040	46.000	9.640	0.070	0.000	AV
9		1.038	40.350	30.640	-15.650	56.000	9.630	0.080	0.000	QP
10		1.038	26.330	16.620	-19.670	46.000	9.630	0.080	0.000	AV
11		1.118	42.223	32.513	-13.777	56.000	9.630	0.080	0.000	QP
12		1.118	27.662	17.952	-18.338	46.000	9.630	0.080	0.000	AV
13		1.510	40.521	30.791	-15.479	56.000	9.640	0.090	0.000	QP
14		1.510	26.200	16.470	-19.800	46.000	9.640	0.090	0.000	AV
15		1.694	37.484	27.754	-18.516	56.000	9.640	0.090	0.000	QP
16		1.694	22.992	13.262	-23.008	46.000	9.640	0.090	0.000	AV
17		1.838	39.083	29.348	-16.917	56.000	9.640	0.095	0.000	QP

18		1.838	25.659	15.924	-20.341	46.000	9.640	0.095	0.000	AV
19		1.978	37.639	27.899	-18.361	56.000	9.640	0.100	0.000	QP
20		1.978	23.503	13.763	-22.497	46.000	9.640	0.100	0.000	AV
21		2.270	36.396	26.656	-19.604	56.000	9.640	0.100	0.000	QP
22		2.270	23.437	13.697	-22.563	46.000	9.640	0.100	0.000	AV
23		8.750	38.506	28.546	-21.494	60.000	9.720	0.240	0.000	QP
24		8.750	26.494	16.534	-23.506	50.000	9.720	0.240	0.000	AV

**Note:**

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

#### 4. Emissions in restricted frequency bands

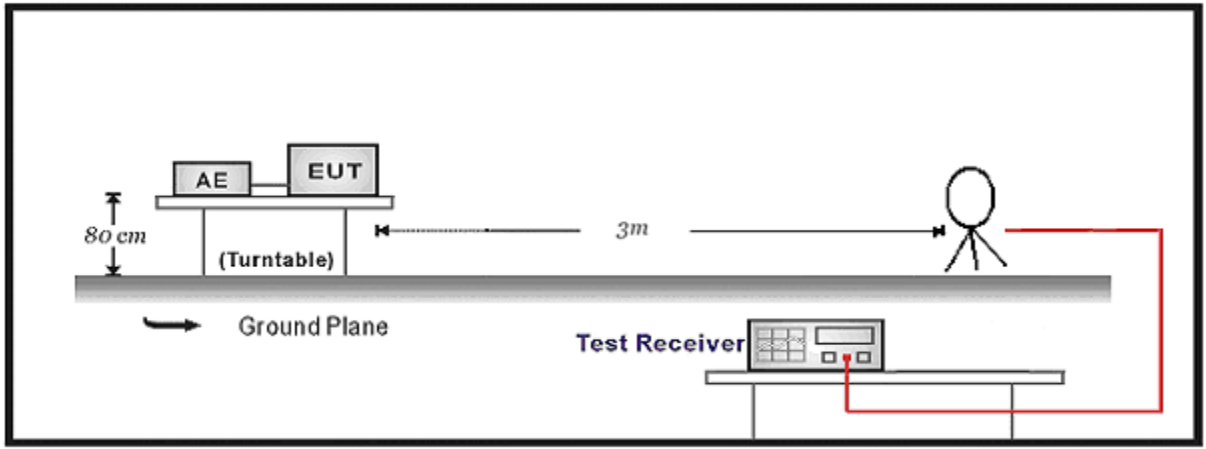
##### 4.1. Test Equipment

Radiated Emission(Below 1GHz) / AC-2					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100573	2016.03.29	2017.03.28
Loop Antenna	R&S	HFH2-Z2	833799/003	2015.11.16	2016.11.17
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2015.10.16	2016.10.15
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2016.03.02	2017.03.01
Temperature/Humidity Meter	Zhichen	ZC1-2	AC2-TH	2016.01.04	2017.01.03
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

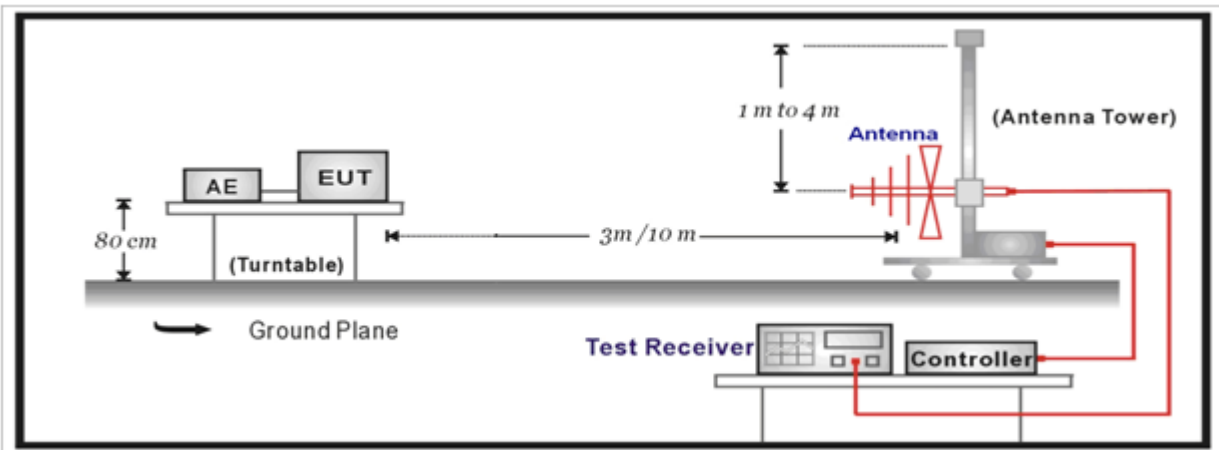
Radiated Emission(Above 1GHz) / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2016.01.04	2017.01.03
Preamplifier	Miteq	NSP1800-25	1364185	2016.05.06	2017.05.05
Preamplifier	Quietek	AP-040G	CHM-0906001	2016.05.06	2017.05.05
DRG Horn	ETS-Lindgren	3117	00123988	2016.01.22	2017.01.21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2015.11.25	2016.11.24
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2016.03.02	2017.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2016.03.02	2017.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C3	2016.03.02	2017.03.01
EMI Receiver	Agilent	N9038A	MY51210196	2016.06.10	2017.06.09
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2016.01.04	2017.01.03
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

## 4.2. Test Setup

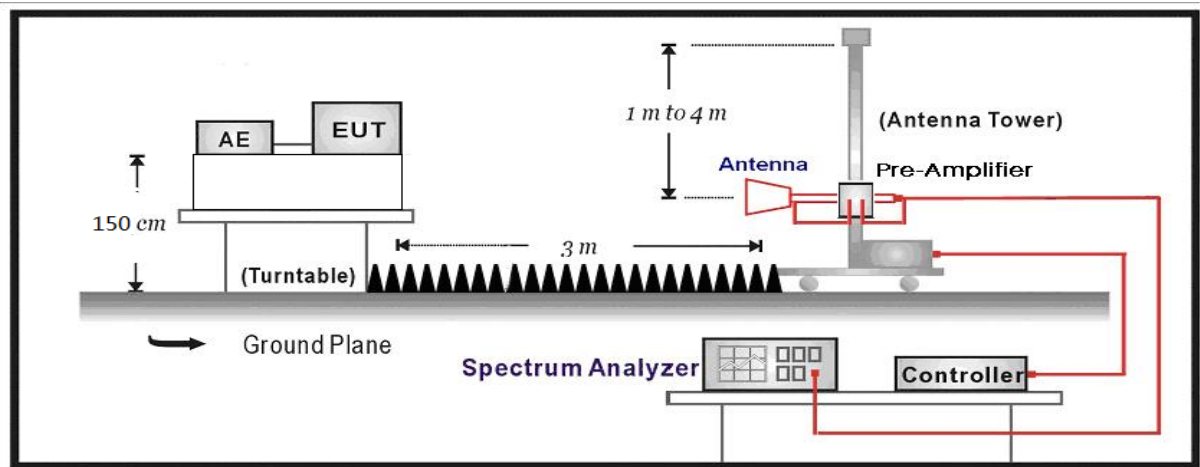
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



### 4.3. Limit

Restricted Bands of operation			
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			



Restricted Band Emissions Limit			
Frequency (MHz)	Field strength ( $\mu$ V/m)	Field strength (dB $\mu$ V/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300 <sub>(Note 1)</sub>
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30 <sub>(Note 1)</sub>
1.705 - 30	30	29.5	30 <sub>(Note 1)</sub>
30 - 88	100	40	3 <sub>(Note 2)</sub>
88 - 216	150	43.5	3 <sub>(Note 2)</sub>
216 - 960	200	46	3 <sub>(Note 2)</sub>
Above 960	500	54	3 <sub>(Note 2)</sub>

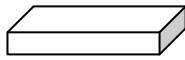
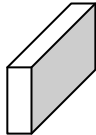
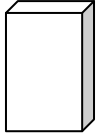



Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed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

#### 4.4. Test Procedure

Test Method			
	References Rule	Chapter	Description
<input type="checkbox"/>	ANSI C63.10	11.11	Emissions in non-restricted frequency bands
	<input type="checkbox"/> ANSI C63.10	11.11.2	Reference level measurement
	<input type="checkbox"/> ANSI C63.10	11.11.3	Emission level measurement
<input checked="" type="checkbox"/>	ANSI C63.10	11.12	Emissions in restricted frequency bands
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.1	Radiated emission measurements
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.7	Radiated spurious emission test
	<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"/> ANSI C63.10	11.12.2.3	Quasi-peak measurement procedure
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.4	Peak power measurement procedure
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.5	Average power measurement procedures
	<input type="checkbox"/> ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission at full power
	<input type="checkbox"/> ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.5.3	Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold

#### 4.5. EUT test Axis definition

Item	Emissions in restricted frequency bands			
Device Category	<input checked="" type="checkbox"/>	Fixed position use		
	<input type="checkbox"/>	Mobile position use		
Test mode	Mode 1~4			
Test method	<input checked="" type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input checked="" 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	: 300Mbps Wireless N Access Point	Power	: 120V/60Hz
Test Mode	: Mode 1	Test Site	: AC-5
Test Date	: 2016.09.03		

CH	Antenna Polarity	Frequency (MHz)	Reading Level (dB μ V)	Factor (dB)	Measured Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Detector
1	H	4824.0	46.2	5.4	51.6	54(note3)	-2.4	PK
	H	7236.0	39.3	9.7	49.0	54(note3)	-5.0	PK
	H	9648.0	35.0	12.5	47.5	54(note3)	-6.5	PK
	V	4825.0	44.8	5.4	50.2	54(note3)	-3.8	PK
	V	7239.0	43.7	9.7	53.4	54(note3)	-0.6	PK
	V	9648.0	36.4	12.6	49.0	54(note3)	-5.0	PK
6	H	4876.0	50.5	5.5	56.0	74	-18.0	PK
	H	4874.0	47.6	5.5	53.1	54	-0.9	AV
	H	7307.0	44.2	9.3	53.5	54(note3)	-0.5	PK
	H	9746.5	38.3	12.8	51.1	54(note3)	-2.9	Pk
	V	4876.0	46.8	5.6	52.4	54(note3)	-1.6	PK
	V	7307.0	45.3	9.3	54.6	74	-19.4	PK
	V	7311.0	44.4	9.5	53.9	54	-0.1	PK
	V	9746.5	38.7	12.8	51.5	54(note3)	-2.5	PK
11	H	4927.0	41.4	5.7	47.1	54(note3)	-6.9	PK
	H	7386.0	36.1	9.3	45.4	54(note3)	-8.6	PK
	H	9848.0	34.6	13.0	47.6	54(note3)	-6.4	PK
	V	4927.0	44.2	5.8	50.0	54(note3)	-4.0	PK
	V	7383.5	41.8	9.3	51.1	54(note3)	-2.9	PK
	V	9848.0	36.0	13.0	49.0	54(note3)	-5.0	PK

Note: 1. Measure Level = Reading Level + Factor.

Note: 2. The test frequency range, 9kHz~30MHz, 18GHz~25GHz, both of the worst case are at least 6dB below the limits, therefore no data appear in the report.

Note: 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.

Note: 4. The VBW setting for average testing, see Clause 6.6.

Product Name	: 300Mbps Wireless N Access Point	Power	: 120V/60Hz
Test Site	: Mode 2	Test Site	: AC-5
Test Date	: 2016.09.03		

CH	Antenna Polarity	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measured Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector
1	H	4824.0	38.6	5.4	44.0	54(note3)	-10.0	PK
	H	7236.0	35.9	9.7	45.6	54(note3)	-8.4	PK
	H	9548.0	33.7	12.6	46.3	54(note3)	-7.7	PK
	V	4824.0	38.6	5.4	44.0	54(note3)	-10.0	PK
	V	7236.0	35.9	9.7	45.6	54(note3)	-8.4	PK
	V	9548.0	33.7	12.6	46.3	54(note3)	-7.7	PK
6	H	4867.5	41.5	5.5	47.0	54(note3)	-7.0	PK
	H	7311.0	37.5	9.5	47.0	54(note3)	-7.0	PK
	H	9748.0	35.3	12.8	48.1	54(note3)	-5.9	PK
	V	4876.0	47.0	5.5	52.5	54(note3)	-1.5	PK
	V	7315.5	47.7	9.6	57.3	74	-16.7	PK
	V	7311.0	44.5	9.4	53.9	54	-0.1	AV
	V	9746.5	41.5	12.8	54.3	74	-19.7	PK
	V	9748.0	38.8	12.8	51.6	54	-2.4	AV
11	H	4924.0	37.2	5.8	43.0	54(note3)	-11.0	PK
	H	7386.0	35.3	9.3	44.6	54(note3)	-9.4	PK
	H	9848.0	33.2	13.0	46.2	54(note3)	-7.8	PK
	V	4924.0	36.6	5.7	42.3	54(note3)	-11.7	PK
	V	7386.0	34.3	9.2	43.5	54(note3)	-10.5	PK
	V	9848.0	31.8	13.0	44.8	54(note3)	-9.2	PK

Note: 1. Measure Level = Reading Level + Factor.

Note: 2. The test frequency range, 9kHz~30MHz, 18GHz~25GHz, both of the worst case are at least 6dB below the limits, therefore no data appear in the report.

Note: 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.

Note: 4. The VBW setting for average testing, see Clause 6.6.

Product Name	: 300Mbps Wireless N Access Point	Power	: 120V/60Hz
Test Site	: Mode 3	Test Site	: AC-5
Test Date	: 2016.09.03		

CH	Antenna Polarity	Frequency (MHz)	Reading Level (dB μ V)	Factor (dB)	Measured Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	H	4824.0	36.4	5.4	41.8	54(note3)	-12.2	PK
	H	7236.0	35.2	9.7	44.9	54(note3)	-9.1	PK
	H	9648.0	35.4	12.6	48.0	54(note3)	-6.0	PK
	V	4824.0	36.8	5.4	42.2	54(note3)	-11.8	PK
	V	7236.0	36.1	9.7	45.8	54(note3)	-8.2	PK
	V	9648.0	34.5	12.6	47.1	54(note3)	-6.9	PK
6	H	4874.0	40.5	5.5	46.0	54(note3)	-8.0	PK
	H	7311.0	37.6	9.5	47.1	54(note3)	-6.9	PK
	H	9748.0	35.7	12.9	48.6	54(note3)	-5.4	PK
	V	4876.0	47.0	5.5	52.5	54(note3)	-1.5	PK
	V	7315.5	47.4	9.6	57.0	74	-17.0	PK
	V	7311.0	44.5	9.4	53.9	54	-0.1	AV
11	V	9748.0	32.9	12.9	45.8	54(note3)	-8.2	PK
	H	4924.0	35.5	5.8	41.3	54(note3)	-12.7	PK
	H	7386.0	34.1	9.3	43.4	54(note3)	-10.6	PK
	H	9848.0	32.2	13.0	45.2	54(note3)	-8.8	PK
	V	4924.0	37.4	5.7	43.1	54(note3)	-10.9	PK
	V	7386.0	36.5	9.3	45.8	54(note3)	-8.2	PK
V	9848.0	33.6	13.0	46.6	54(note3)	-7.4	PK	

Note: 1. Measure Level = Reading Level + Factor.

Note: 2. The test frequency range, 9kHz~30MHz, 18GHz~25GHz, both of the worst case are at least 6dB below the limits, therefore no data appear in the report.

Note: 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.

Note: 4. The VBW setting for average testing, see Clause 6.6.

Product Name	: 300Mbps Wireless N Access Point	Power	: 9V /0.6A
Test Site	: Mode 4	Test Site	: AC-5
Test Date	: 2016.09.04		

CH	Antenna Polarity	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measured Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector
3	H	4844.0	35.1	5.7	40.8	54(note3)	-13.2	PK
	H	7266.0	34.8	9.5	44.3	54(note3)	-9.7	PK
	H	9688.0	35.1	12.8	47.9	54(note3)	-6.1	PK
	V	4844.0	35.7	5.7	41.4	54(note3)	-12.6	PK
	V	7266.0	35.7	9.5	45.2	54(note3)	-8.8	PK
	V	9688.0	34.7	12.9	47.6	54(note3)	-6.4	PK
6	H	4874.0	34.8	5.6	40.4	54(note3)	-13.6	PK
	H	7311.0	33.9	9.5	43.4	54(note3)	-10.6	PK
	H	9748.0	34.3	12.8	47.1	54(note3)	-6.9	PK
	V	4874.0	36.3	5.5	41.8	54(note3)	-12.2	PK
	V	7311.0	35.1	9.4	44.5	54(note3)	-9.5	PK
	V	9748.0	33.5	12.8	46.3	54(note3)	-7.7	PK
9	H	4904.0	35.0	5.7	40.7	54(note3)	-13.3	PK
	H	7356.0	33.8	10.0	43.8	54(note3)	-10.2	PK
	H	9808.0	32.7	12.2	44.9	54(note3)	-9.1	PK
	V	4904.0	35.9	5.7	41.6	54(note3)	-12.4	PK
	V	7356.0	34.9	10.0	44.9	54(note3)	-9.1	PK
	V	9808.0	33.1	12.2	45.3	54(note3)	-8.7	PK

Note: 1. Measure Level = Reading Level + Factor.

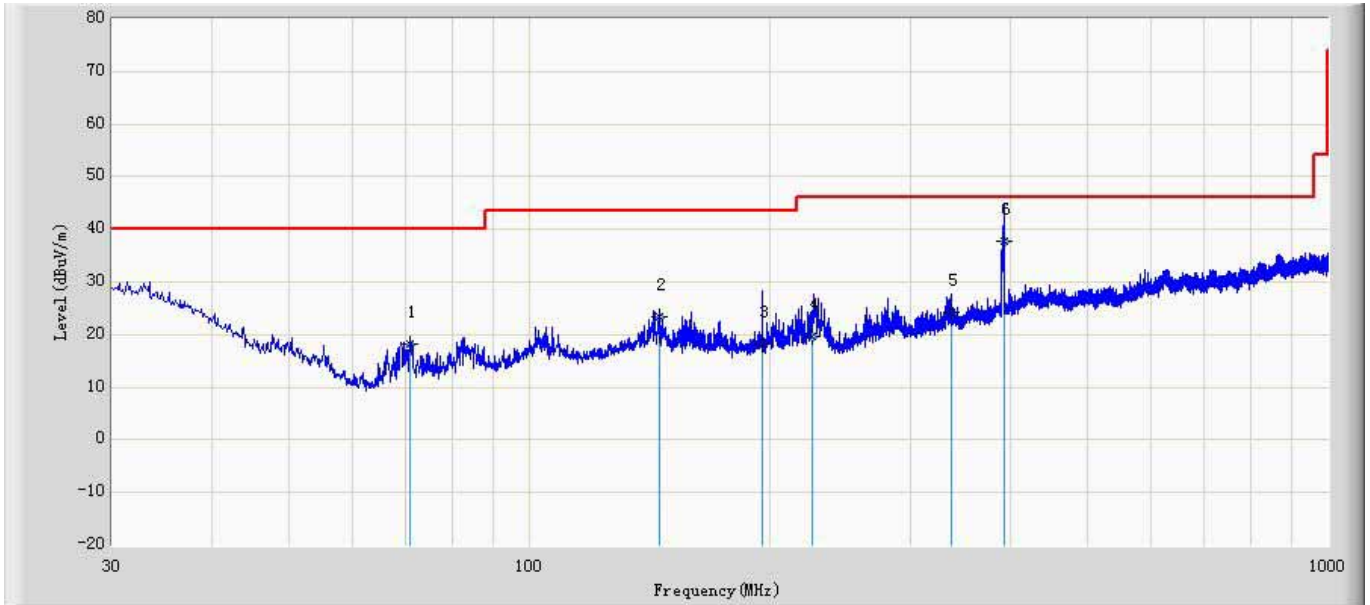
Note: 2. The test frequency range, 9kHz~30MHz, 18GHz~25GHz, both of the worst case are at least 6dB below the limits, therefore no data appear in the report.

Note: 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.

Note: 4. The VBW setting for average testing, see Clause 6.6.

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

Site: AC2	Time: 2016/08/23
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: CB7_CBL6112_0726	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 1	



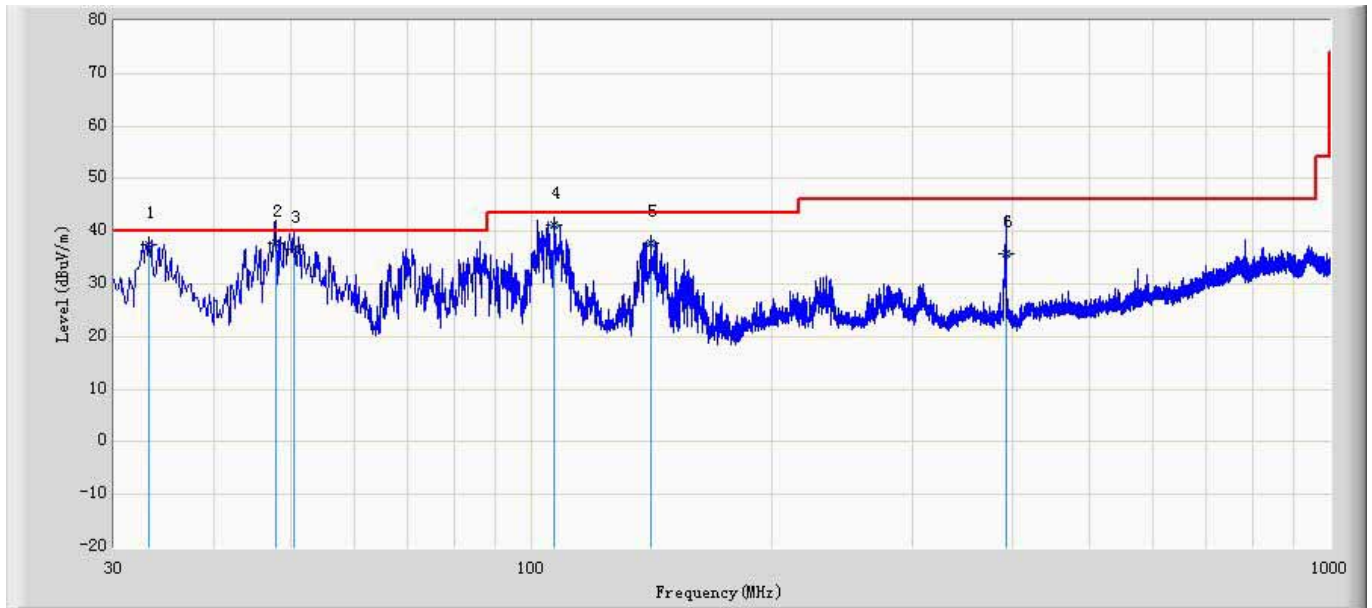
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		70.816	18.249	34.062	-21.751	40.000	6.357	0.901	23.071	200	348	QP
2		145.692	23.333	34.285	-20.167	43.500	10.758	1.310	23.020	200	256	QP
3		195.457	18.262	30.538	-25.238	43.500	9.364	1.520	23.160	100	242	QP
4		226.325	19.792	31.496	-26.208	46.000	9.933	1.624	23.260	125	360	QP
5		337.326	24.236	30.845	-21.764	46.000	14.371	1.990	22.970	100	262	QP
6	*	392.563	37.639	42.663	-8.361	46.000	15.806	2.190	23.020	100	317	QP

**Note:**

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



Site: AC2	Time: 2016/08/23
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: CB7_CBL6112_0726	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		33.182	37.376	42.927	-2.624	40.000	16.954	0.630	23.136	200	316	QP
2		47.811	37.739	51.039	-2.261	40.000	9.076	0.754	23.129	100	336	QP
3		50.431	36.739	50.880	-3.261	40.000	8.127	0.780	23.048	300	61	QP
4	*	106.713	41.318	51.577	-2.182	43.500	11.771	1.120	23.150	100	64	QP
5		141.204	37.833	48.552	-5.667	43.500	11.028	1.286	23.034	100	75	QP
6		392.507	35.669	40.694	-10.331	46.000	15.805	2.190	23.020	100	360	QP

Note:

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

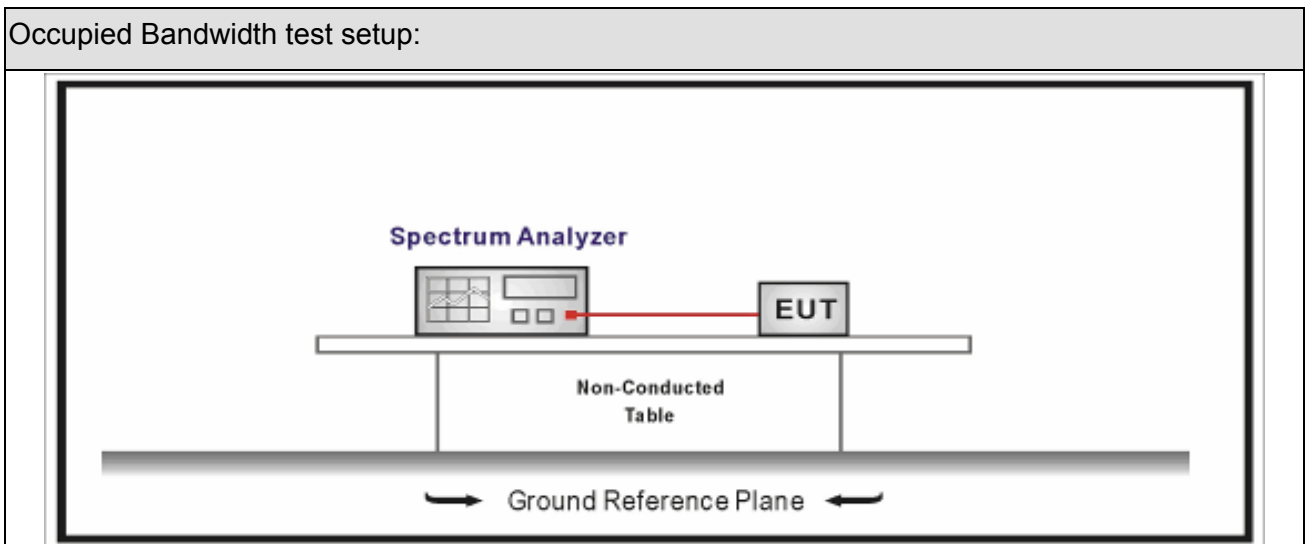
## 5. Emissions in non-restricted frequency bands

### 5.1. Test Equipment

Occupied Bandwidth / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.02.04	2017.02.04
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



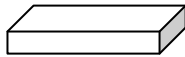
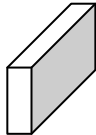
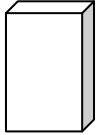
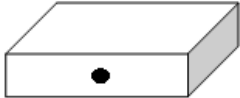


### 5.3. Limit

Un-Restricted Band Emissions Limit	
RF Output power (Detection methods)	Limit(dB)
RF Output power(Average detector)	30c(Note1)
RF Output power(PK detector)	20c(Note2)
<p>Note 1: If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).</p> <p>Note 2: If the maximum peak conducted output power procedure was used, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).</p>	

### 5.4. Test Procedure

Test Method			
	References Rule	Chapter	Description
<input checked="" type="checkbox"/>	ANSI C63.10	11.11	Emissions in non-restricted frequency bands
	<input checked="" type="checkbox"/> ANSI C63.10	11.11.2	Reference level measurement
	<input checked="" type="checkbox"/> ANSI C63.10	11.11.3	Emission level measurement
<input type="checkbox"/>	ANSI C63.10	11.12	Emissions in restricted frequency bands
	<input type="checkbox"/> ANSI C63.10	11.12.1	Radiated emission measurements
	<input type="checkbox"/> ANSI C63.10	11.12.2.7	Radiated spurious emission test
<input type="checkbox"/>	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
<input 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 checked="" type="checkbox"/> ANSI C63.10	11.12.2	Antenna-port conducted measurements
	<input type="checkbox"/> ANSI C63.10	11.12.2.3	Quasi-peak measurement procedure
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.4	Peak power measurement procedure
	<input type="checkbox"/> ANSI C63.10	11.12.2.5	Average power measurement procedures
	<input type="checkbox"/> ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission at full power
	<input type="checkbox"/> ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction
	<input type="checkbox"/> ANSI C63.10	11.12.2.5.3	Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold

**5.5. EUT test Axis definition**

Item	Emissions in non-restricted frequency bands			
Device Category	<input checked="" type="checkbox"/>	Fixed position use		
	<input type="checkbox"/>	Mobile position use		
Test mode	Mode 1 ~ Mode 4			
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 0		
				
	<input checked="" type="checkbox"/>	Chain 0	Chain 1	
				
	<input type="checkbox"/>	Chain 0	Chain 1	Chain 2
				

**5.6. Test Result**

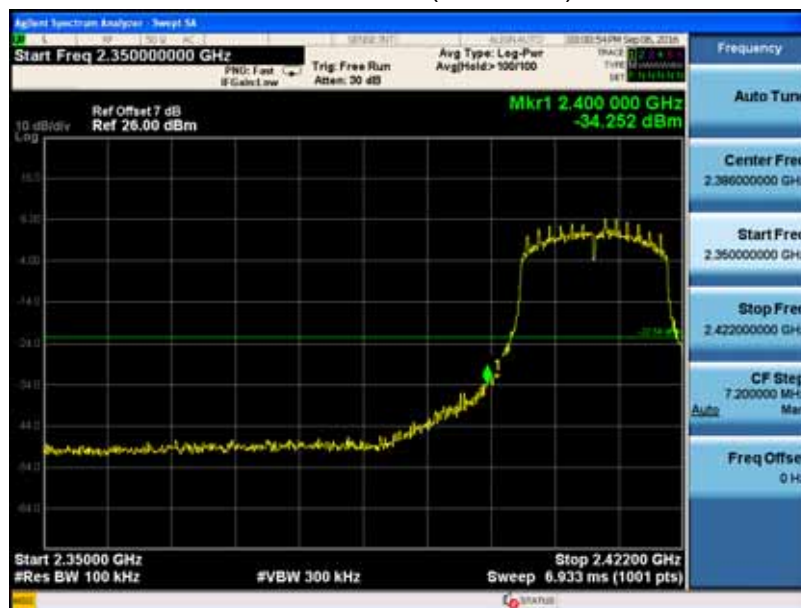
Product Name	: 300Mbps Wireless N Access Point	Power	: 9V /0.6A
Test Mode	: Mode1~4	Test Site	: TR8
Test Date	: 2016.09.06		

**Antenna #1**

Mode	Channel	Test Frequency (MHz)	In-Band PSD[a] (dBm/100kHz)	Frequency (MHz)	Out-Band PSD[b] (dBm/100kHz)	[a]-[b] (dB)	Limit (dB)	Result
1	01	2412	11.024	2400	-44.663	55.687	>30	Pass
1	11	2462	11.024	2483.5	-45.205	56.229	>30	Pass
2	01	2412	7.462	2400	-34.252	41.714	>30	Pass
2	11	2462	7.462	2483.5	-44.347	51.809	>30	Pass
3	01	2412	8.743	2400	-36.452	45.195	>30	Pass
3	11	2462	8.742	2483.5	-46.329	55.071	>30	Pass
4	03	2422	1.354	2400	-45.241	46.595	>30	Pass
4	09	2452	1.354	2483.5	-45.996	47.35	>30	Pass

Note: The worst case of emissions in non-restricted frequency bands as below:

Mode 2 CH01(2412MHz)



**Antenna #2**

Mode	Channel	Test Frequency (MHz)	In-Band PSD[a] (dBm/100kHz)	Frequency (MHz)	Out-Band PSD[b] (dBm/100kHz)	[a]-[b] (dB)	Limit (dB)	Result
1	01	2412	10.394	2400	-43.684	54.078	>30	Pass
1	11	2462	10.394	2483.5	-46.255	56.649	>30	Pass
2	01	2412	7.742	2400	-30.688	38.43	>30	Pass
2	11	2462	7.742	2483.5	-44.218	51.96	>30	Pass
3	01	2412	9.03	2400	-34.62	43.65	>30	Pass
3	11	2462	9.03	2483.5	-46.804	55.834	>30	Pass
4	03	2422	1.055	2400	-39.374	39.429	>30	Pass
4	09	2452	1.055	2483.5	-45.646	46.701	>30	Pass

Note: The worst case of emissions in non-restricted frequency bands as below:

Mode 2 CH01(2412MHz)



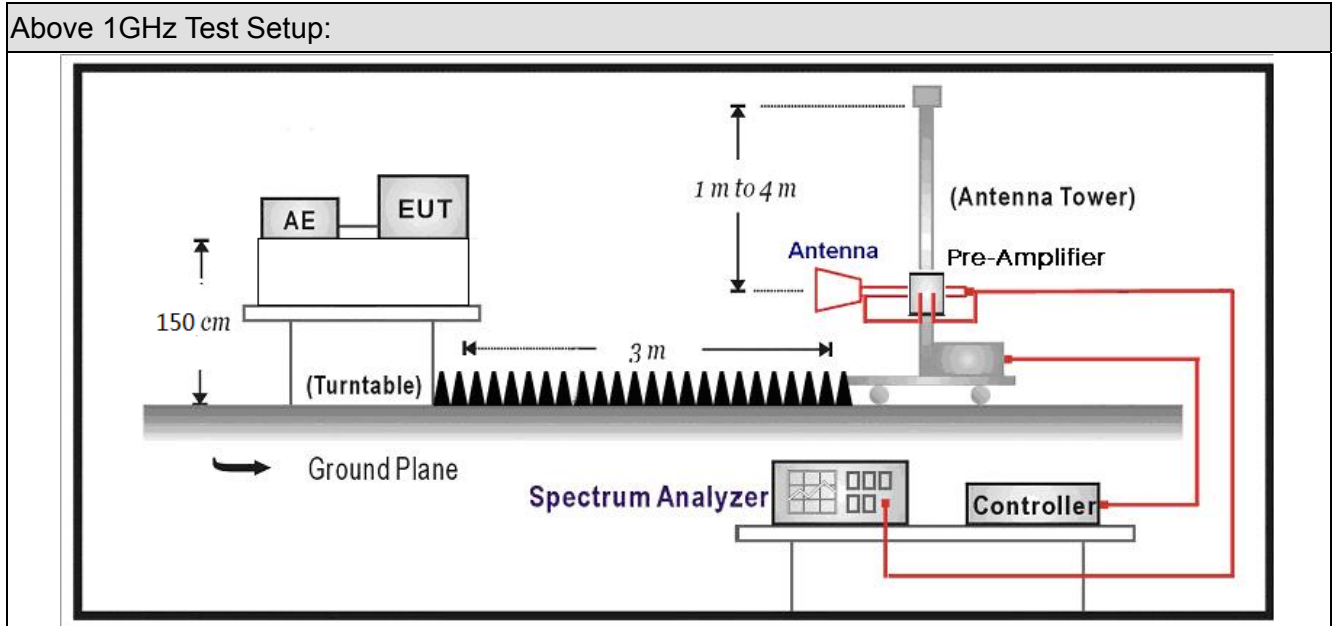
## 6. Radiated Emission Band Edge

### 6.1. Test Equipment

Radiated Emission(Above 1GHz) / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Receiver	Agilent	N9038A	MY51210196	2016.07.16	2017.07.16
Pre-Amplifier	Miteq	NSP1800-25	1364185	2016.05.03	2017.05.03
DRG Horn Antenna	ETS-Lindgren	3117	00167055	2016.07.12	2017.07.12
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2014.09.18	2016.09.18
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2016.02.28	2017.02.28
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2016.02.28	2017.02.28
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2016.01.05	2017.01.05
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

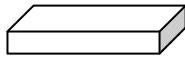
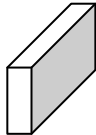
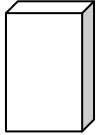
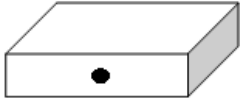


Band edge Limit				
Frequency bands (MHz)	Detector	Limit (dB $\mu$ V/m)	RBW (MHz)	Distance (m)
2310-2390	PK	74	1	3
2483.5-2500	AV	54	1	3

Note: The field strength of emissions appearing within these frequency bands shall not exceed the limits.

## 6.4. Test Procedure

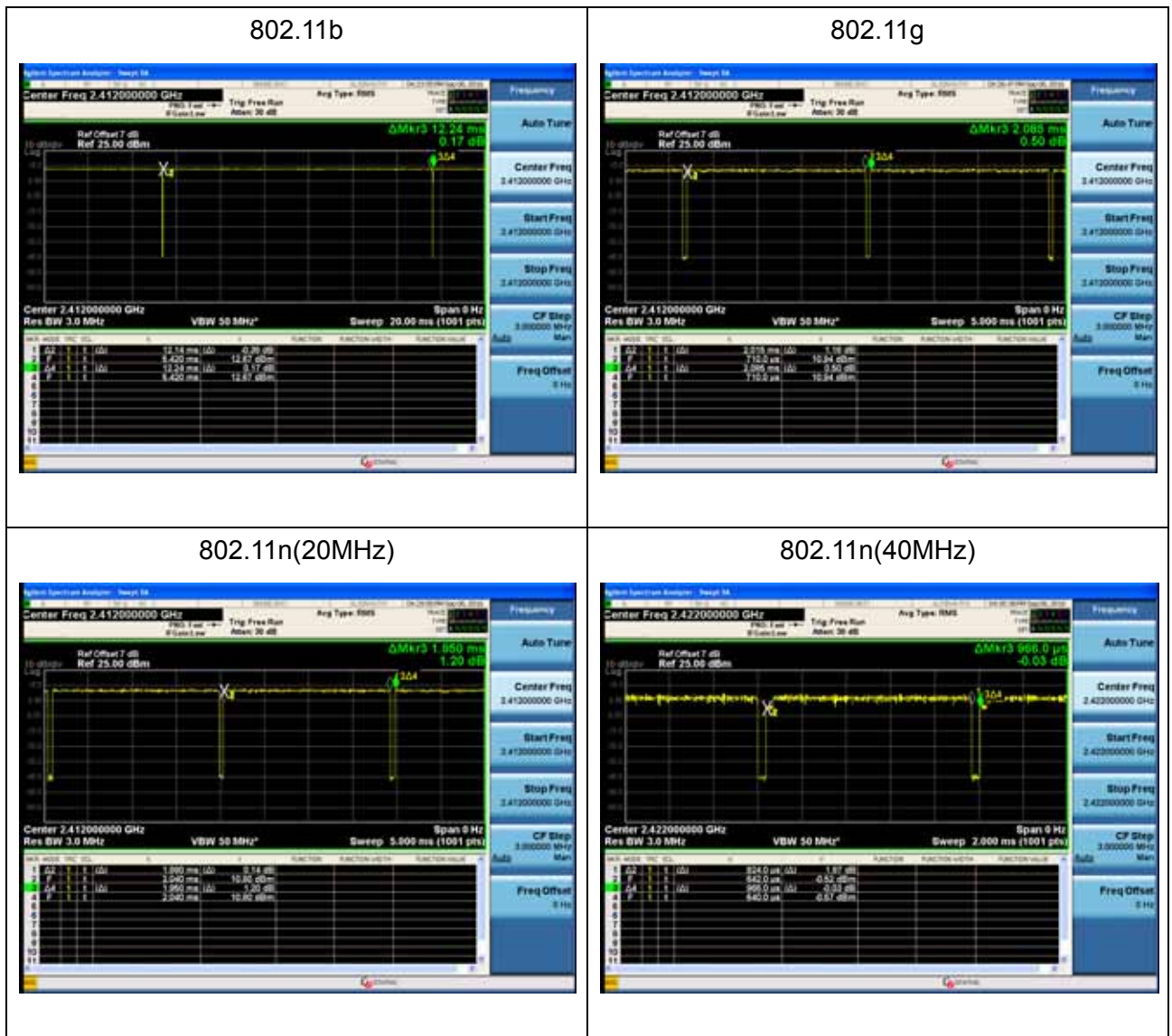
Test Method			
	References Rule	Chapter	Description
<input checked="" type="checkbox"/>	ANSI C63.10	6.10	Band-edge testing
	<input checked="" type="checkbox"/> ANSI C63.10	6.10.5	Restricted-band band-edge measurements
	<input type="checkbox"/> ANSI C63.10	6.10.6	Marker-delta method
<input checked="" type="checkbox"/>	ANSI C63.10	11.12	Emissions in restricted frequency bands
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.1	Radiated emission measurements
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.7	Radiated spurious emission test
<input type="checkbox"/>	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
<input 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"/> ANSI C63.10	11.12.2.3	Quasi-peak measurement procedure
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.4	Peak power measurement procedure
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.5	Average power measurement procedures
	<input type="checkbox"/> ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission at full power
	<input type="checkbox"/> ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.5.3	Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold

**6.5. EUT test definition**

Item	Radiated Emission Band Edge			
Device Category	<input checked="" type="checkbox"/>	Fixed position use		
	<input type="checkbox"/>	Mobile position use		
Test mode	Mode 1~4			
Test method	<input checked="" type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input checked="" type="checkbox"/>
	<input type="checkbox"/>	Conducted		
	<input type="checkbox"/>	Chain 0		
				
	<input type="checkbox"/>	Chain 0	Chain 1	
				
	<input type="checkbox"/>	Chain 0	Chain 1	Chain 2
				

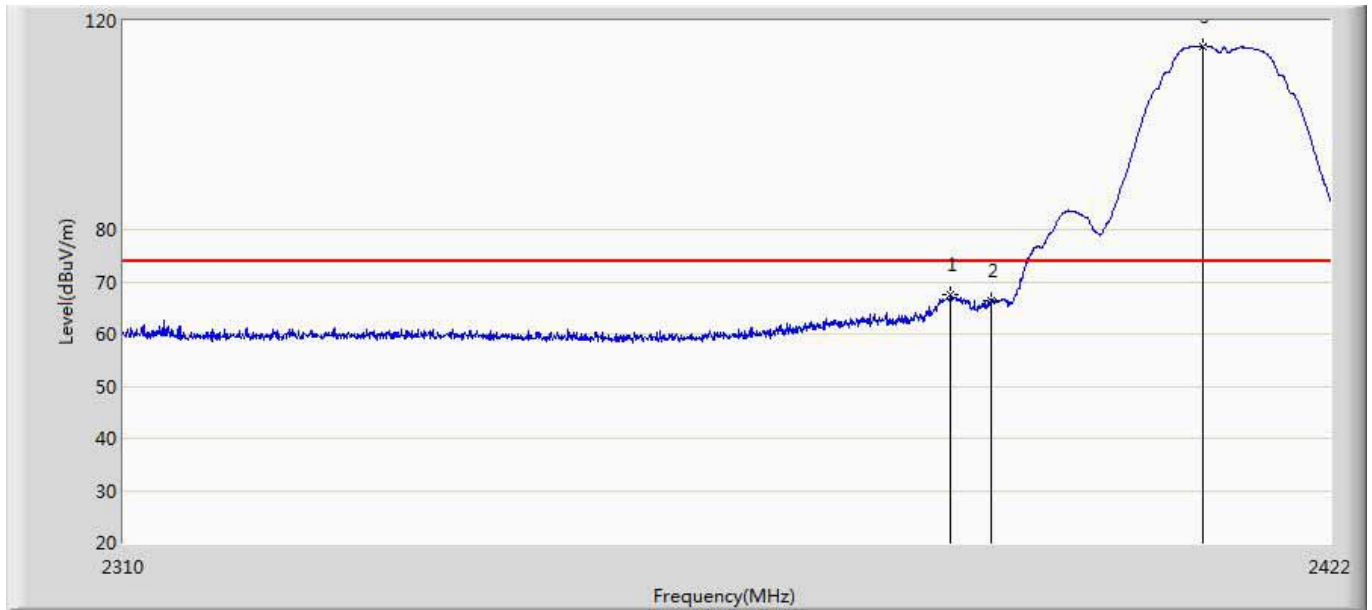
### 6.6. Duty Cycle

Test Mode	Tx On (ms)	Tx Off (ms)	VBW	Tx On + Tx Off (ms)	Duty Cycle
802.11b	12.140	0.010	110Hz	12.240	99.18%
802.11g	2.015	0.070	510Hz	2.085	96.64%
802.11n(20MHz)	1.880	0.070	560Hz	1.950	96.41%
802.11n(40MHz)	0.924	0.042	1.1kHz	0.966	95.65%



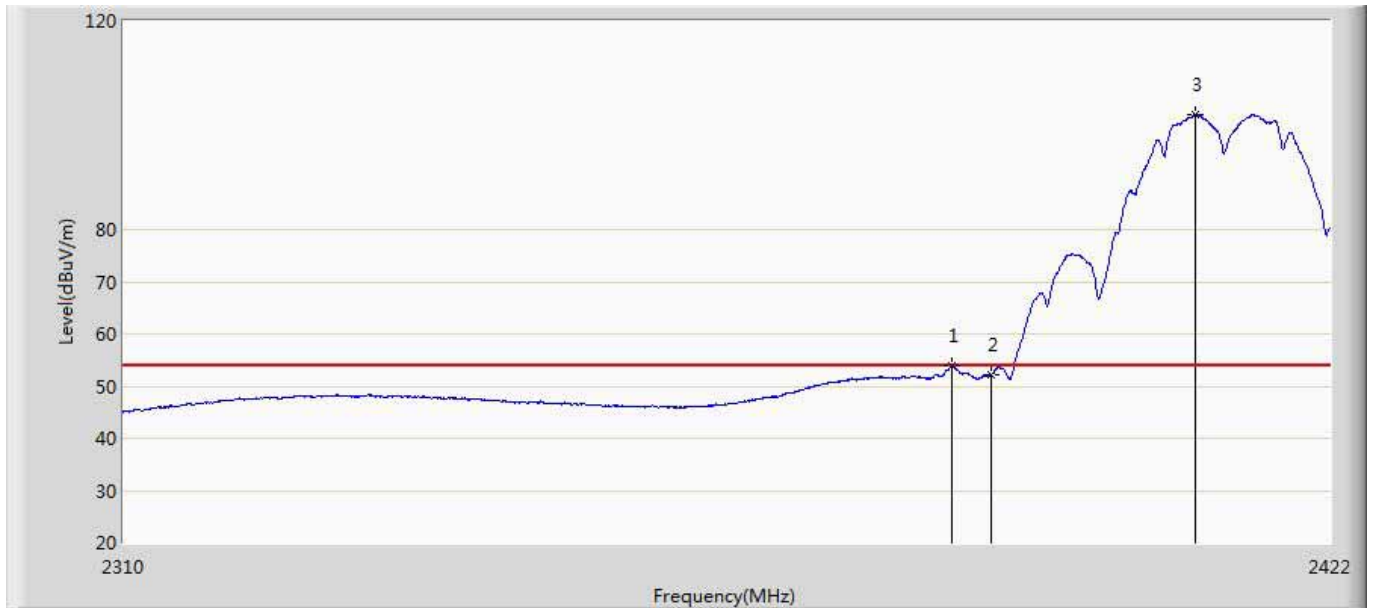
### 6.7. Test Result

Engineer: Simon	
Site: AC5	Time: 2016/09/03 - 11:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHz by 802.11b	



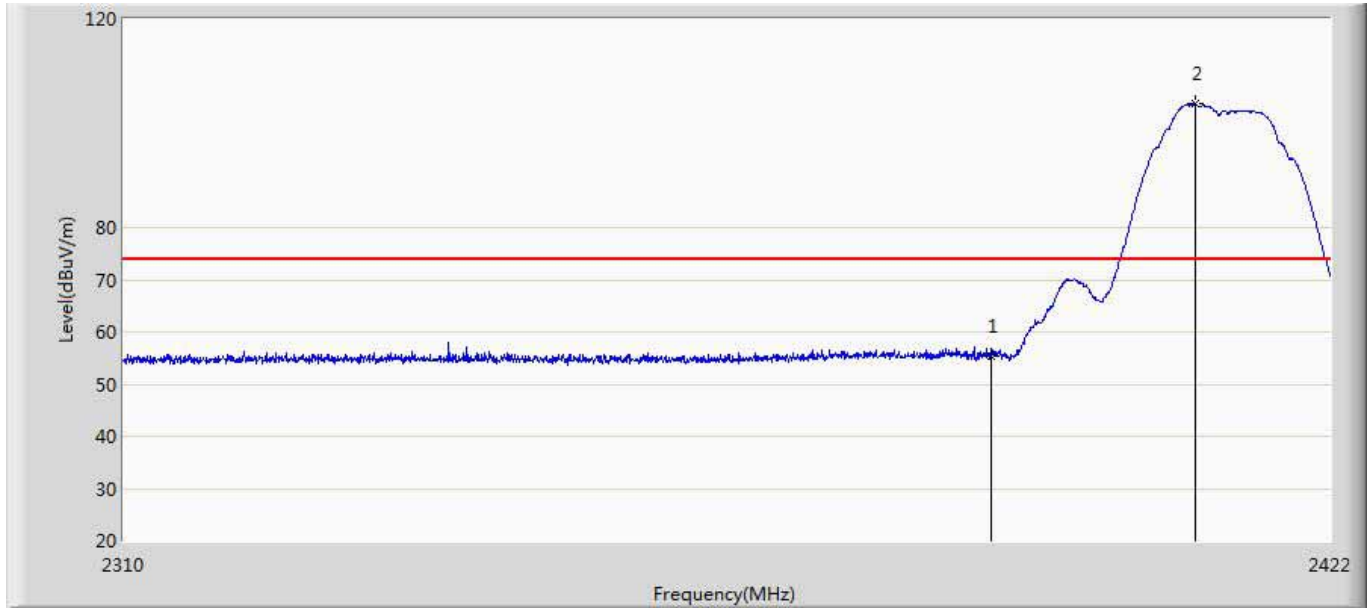
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2386.216	67.447	31.368	-6.553	74.000	36.079	PK
2		2390.000	66.423	30.337	-7.577	74.000	36.086	PK
3	*	2409.960	115.199	79.044	41.199	74.000	36.155	PK

Engineer: Simon	
Site: AC5	Time: 2016/09/03 - 11:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHz by 802.11b	



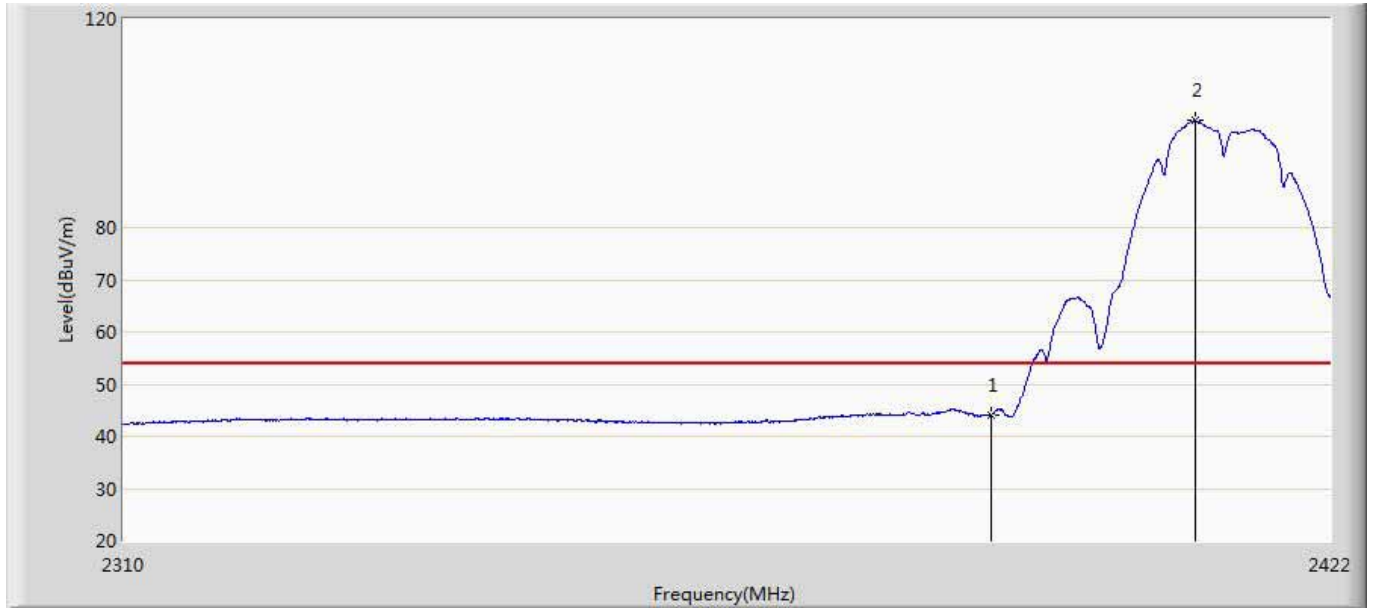
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2386.328	53.879	17.800	-0.121	54.000	36.080	AV
2		2390.000	52.040	15.954	-1.960	54.000	36.086	AV
3	*	2409.232	102.109	65.957	48.109	54.000	36.152	AV

Engineer: Simon	
Site: AC5	Time: 2016/09/03 - 11:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHz by 802.11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	55.325	19.239	-18.675	74.000	36.086	PK
2	*	2409.232	103.807	67.655	29.807	74.000	36.152	PK

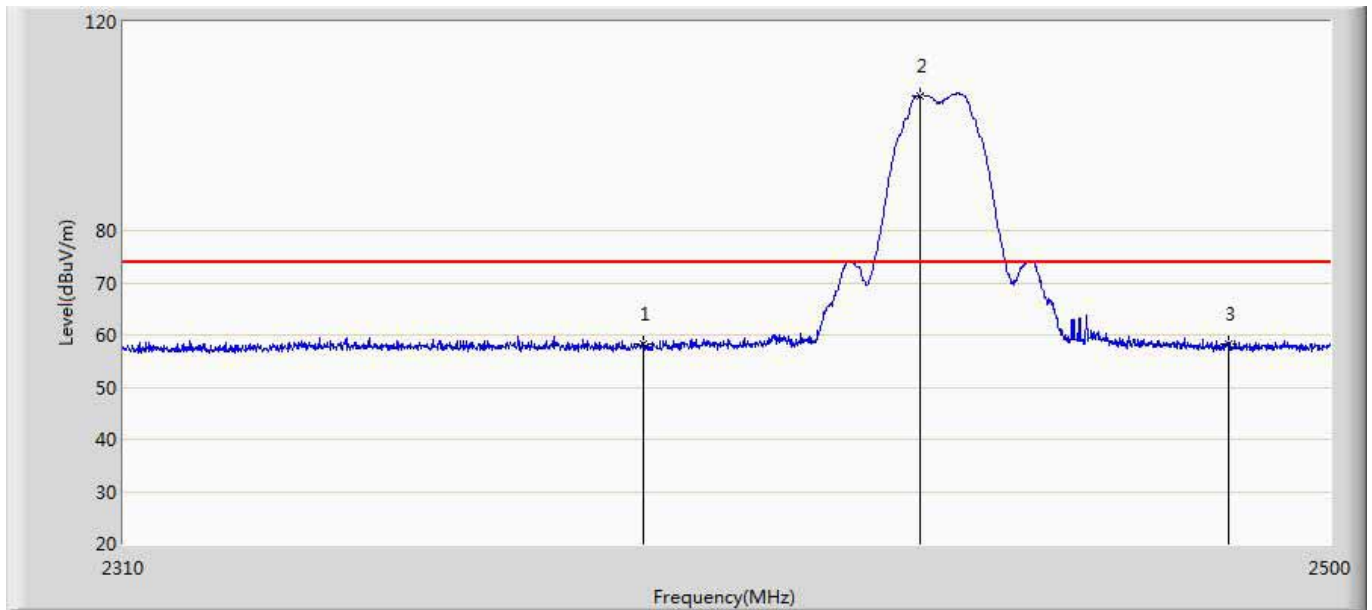
Engineer: Simon	
Site: AC5	Time: 2016/09/03 - 11:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHz by 802.11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	44.105	8.019	-9.895	54.000	36.086	AV
2	*	2409.232	100.523	64.371	46.523	54.000	36.152	AV

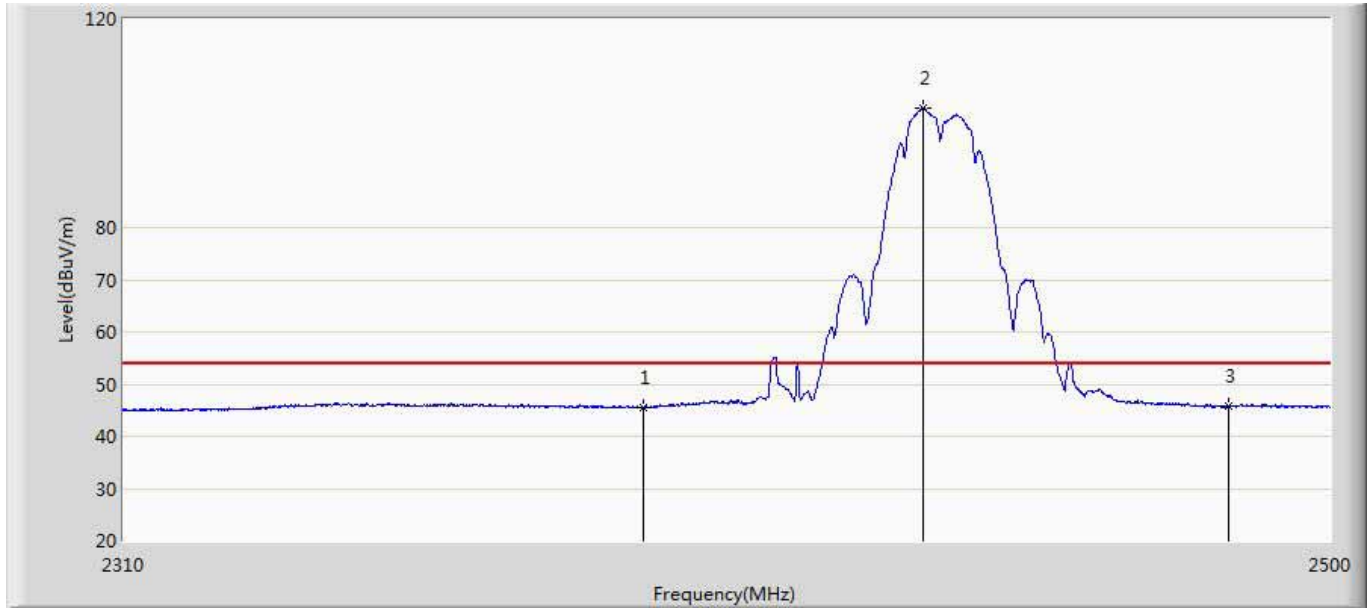


Engineer: Simon	
Site: AC5	Time: 2016/11/03 - 09:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: TL-WA801ND	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2437MHz by 802.11b	



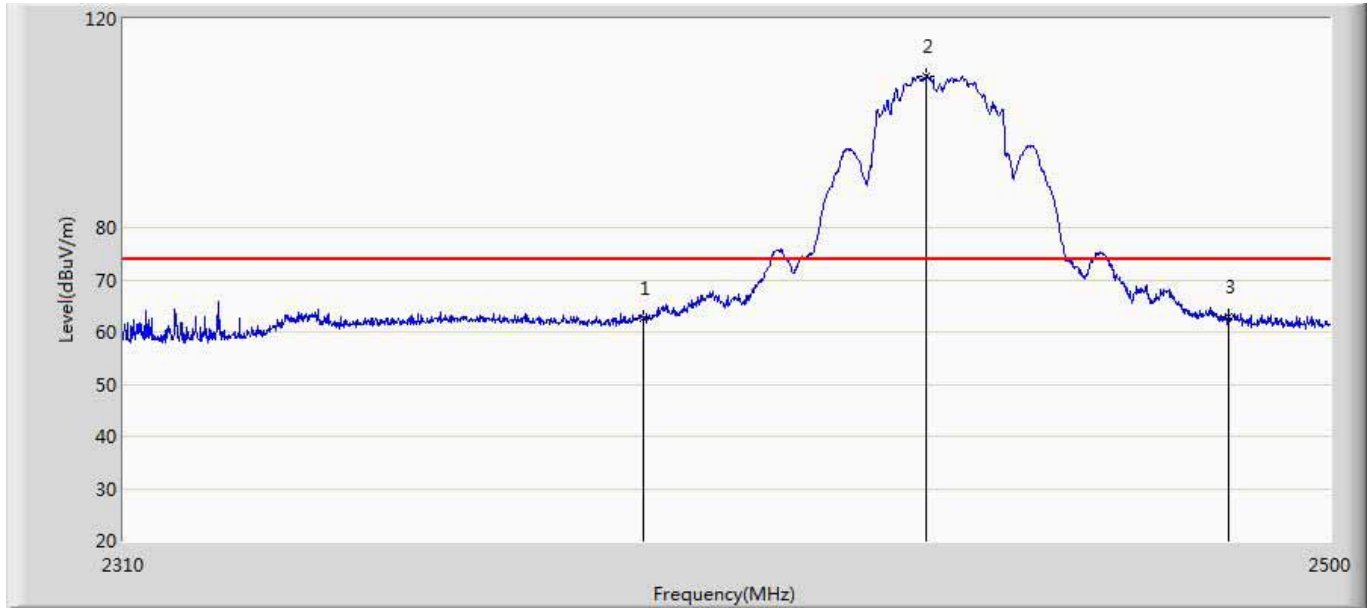
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	58.377	22.291	-15.623	74.000	36.086	PK
2	*	2433.880	105.942	69.758	31.942	74.000	36.184	PK
3		2483.500	58.295	22.034	-15.705	74.000	36.261	PK

Engineer: Simon	
Site: AC5	Time: 2016/11/03 - 09:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: TL-WA801ND	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2437MHz by 802.11b	



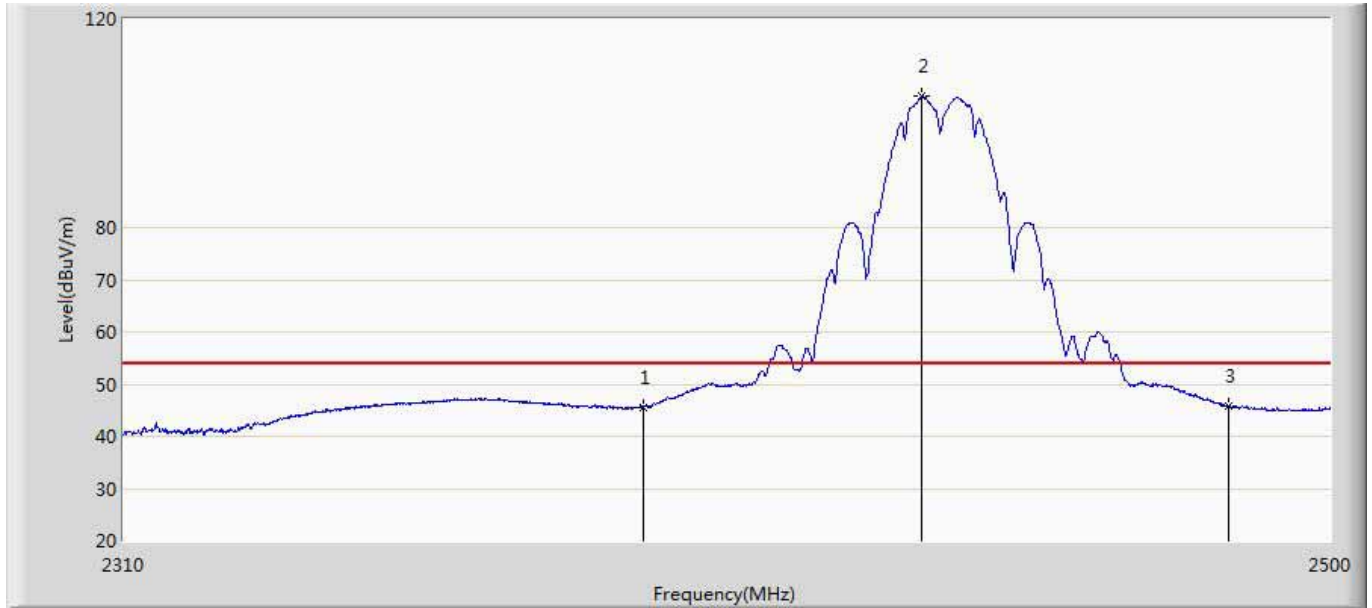
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	45.582	9.496	-8.418	54.000	36.086	AV
2	*	2434.260	103.029	66.844	49.029	54.000	36.185	AV
3		2483.500	45.806	9.545	-8.194	54.000	36.261	AV

Engineer: Simon	
Site: AC5	Time: 2016/11/03 - 09:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: TL-WA801ND	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2437MHz by 802.11b	



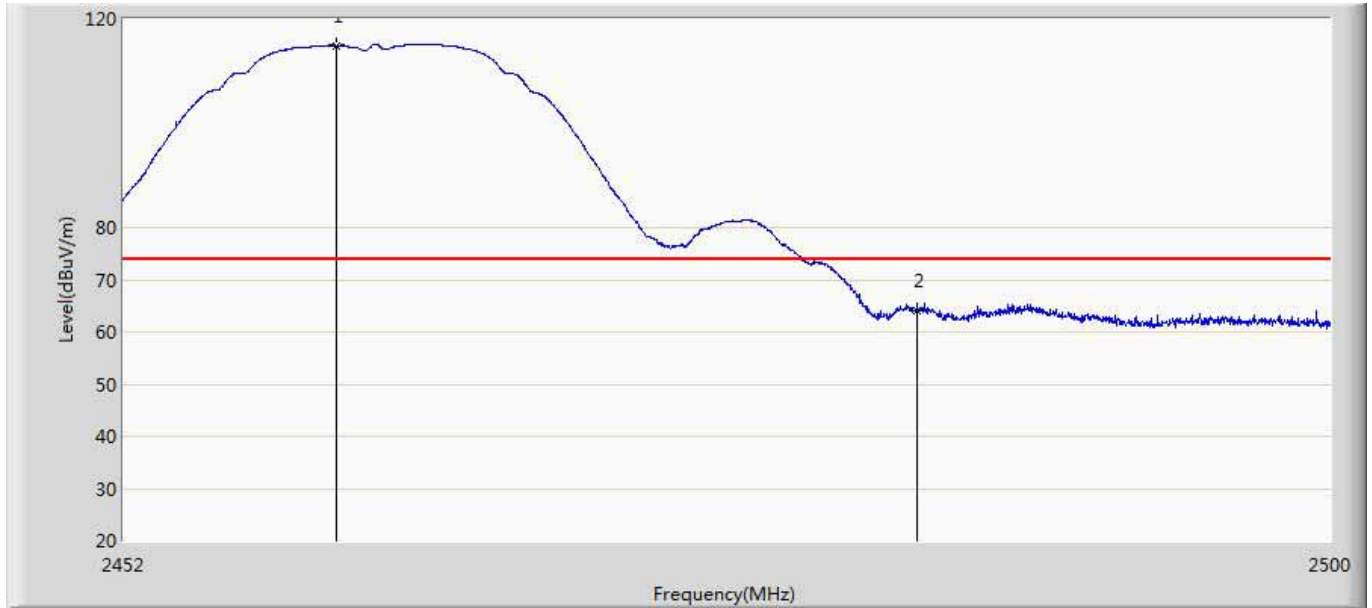
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	62.743	26.657	-11.257	74.000	36.086	PK
2	*	2434.735	109.059	72.872	35.059	74.000	36.187	PK
3		2483.500	62.790	26.529	-11.210	74.000	36.261	PK

Engineer: Simon	
Site: AC5	Time: 2016/11/03 - 09:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: TL-WA801ND	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2437MHz by 802.11b	



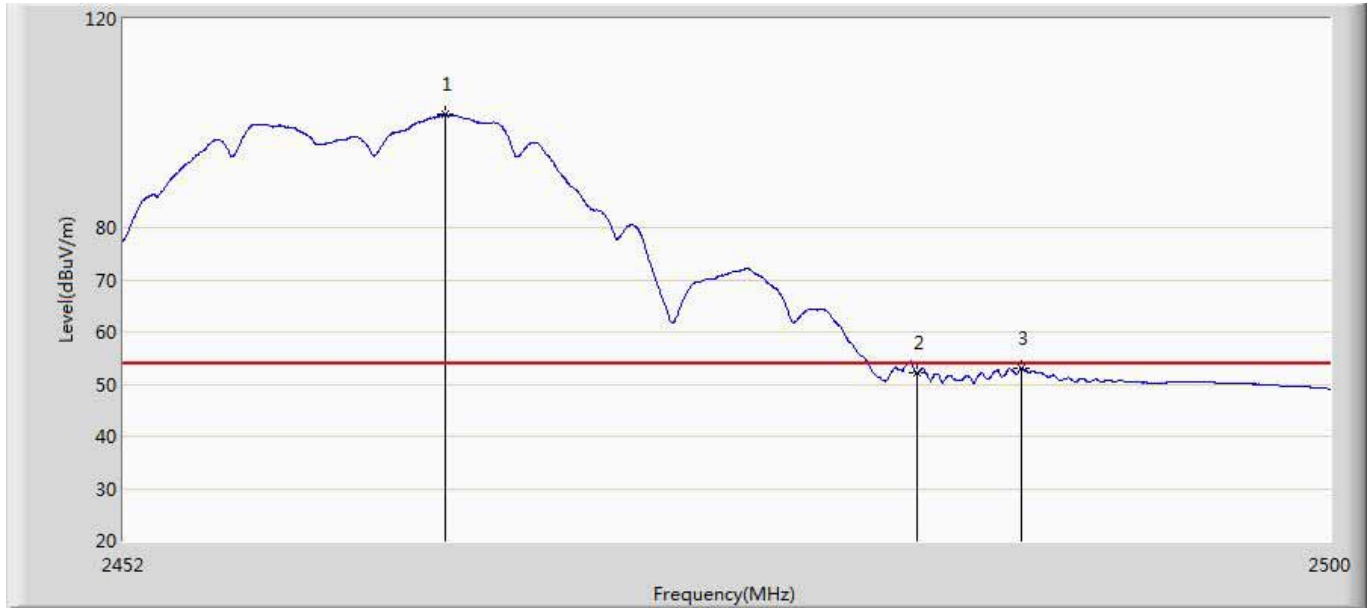
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	45.564	9.478	-8.436	54.000	36.086	AV
2	*	2434.070	105.091	68.906	51.091	54.000	36.184	AV
3		2483.500	45.933	9.672	-8.067	54.000	36.261	AV

Engineer: Simon	
Site: AC5	Time: 2016/09/03 - 11:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462MHz by 802.11b	



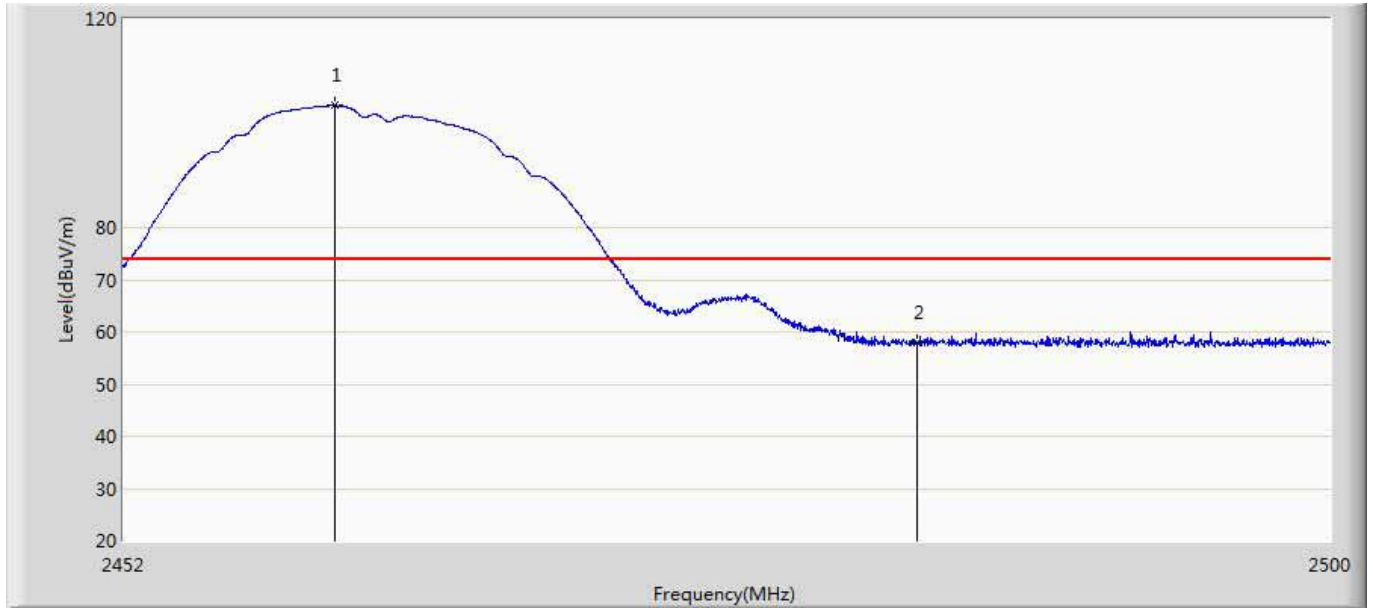
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2460.400	114.895	78.682	40.895	74.000	36.213	PK
2		2483.500	64.047	27.786	-9.953	74.000	36.261	PK

Engineer: Simon	
Site: AC5	Time: 2016/09/03 - 11:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462MHz by 802.11b	



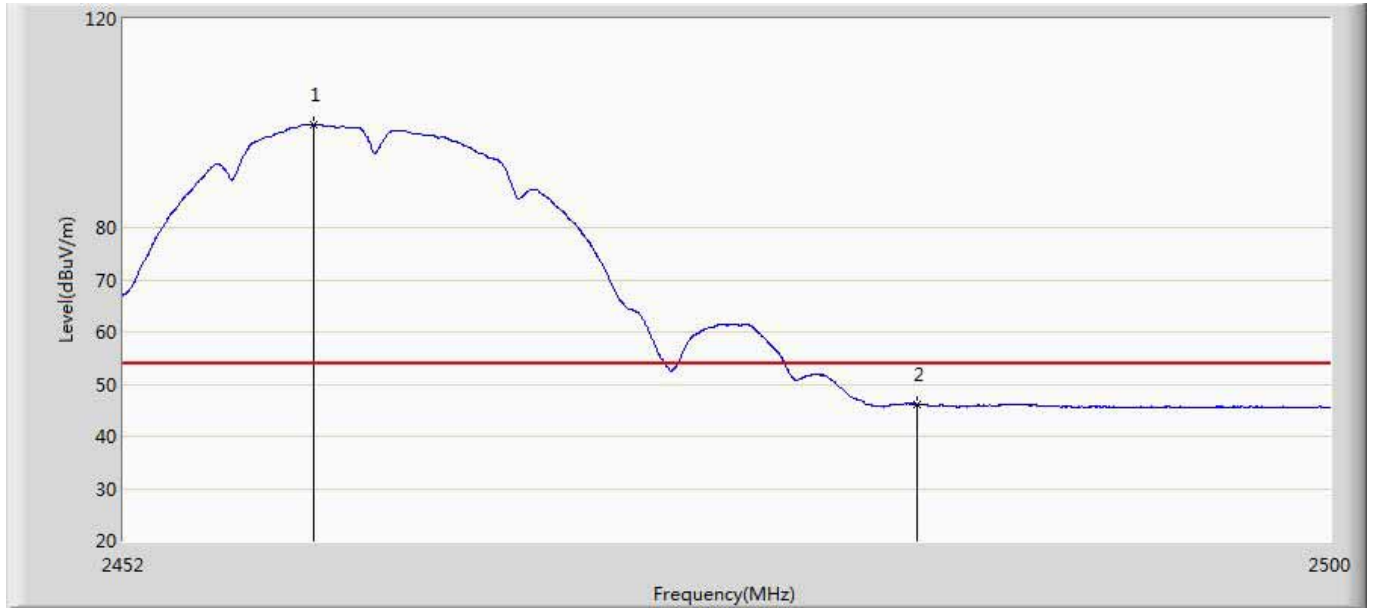
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2464.720	101.658	65.440	47.658	54.000	36.217	AV
2		2483.500	52.185	15.924	-1.815	54.000	36.261	AV
3		2487.640	53.170	16.896	-0.830	54.000	36.274	AV

Engineer: Simon	
Site: AC5	Time: 2016/09/03 - 11:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462MHz by 802.11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2460.328	103.386	67.173	29.386	74.000	36.213	PK
2		2483.500	57.972	21.711	-16.028	74.000	36.261	PK

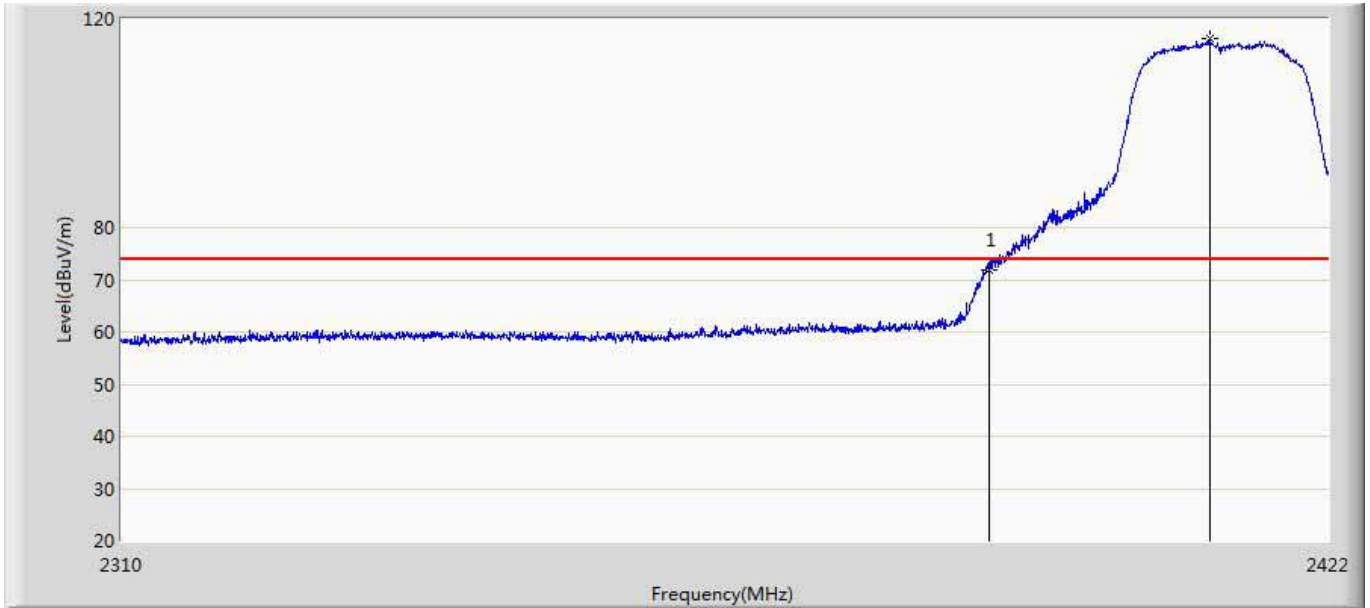
Engineer: Simon	
Site: AC5	Time: 2016/09/03 - 11:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462MHz by 802.11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2459.488	99.782	63.569	45.782	54.000	36.213	AV
2		2483.500	46.174	9.913	-7.826	54.000	36.261	AV

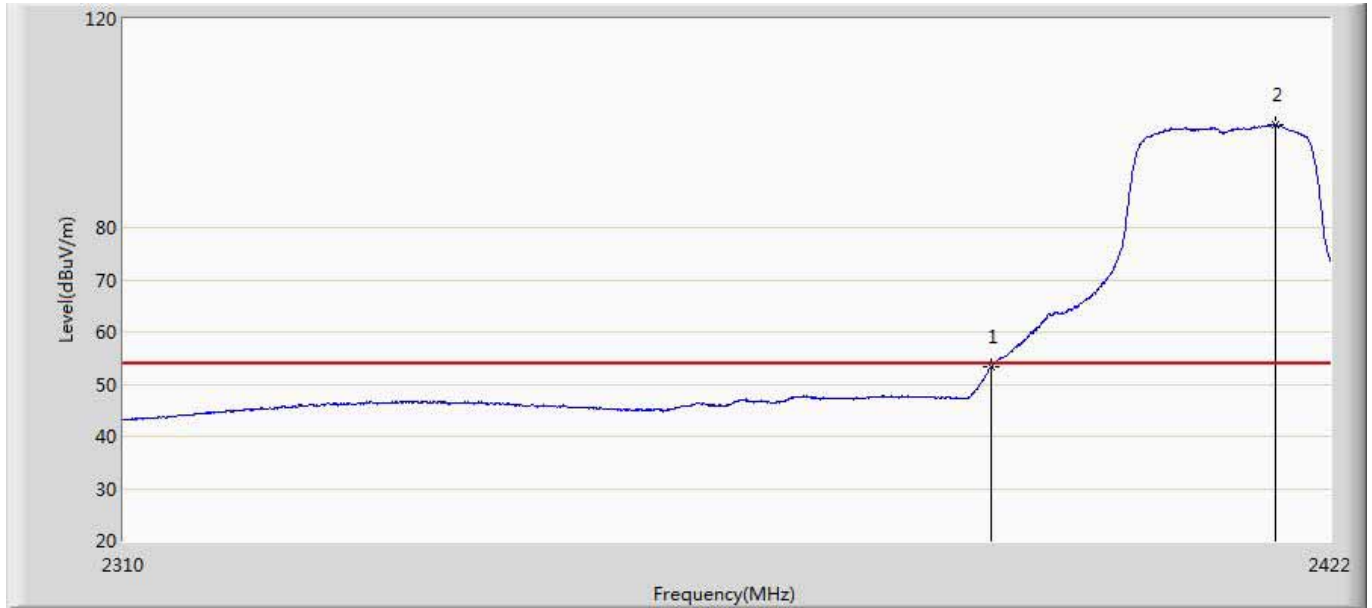


Engineer: Simon	
Site: AC5	Time: 2016/09/03 - 12:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2412MHz by 802.11g	



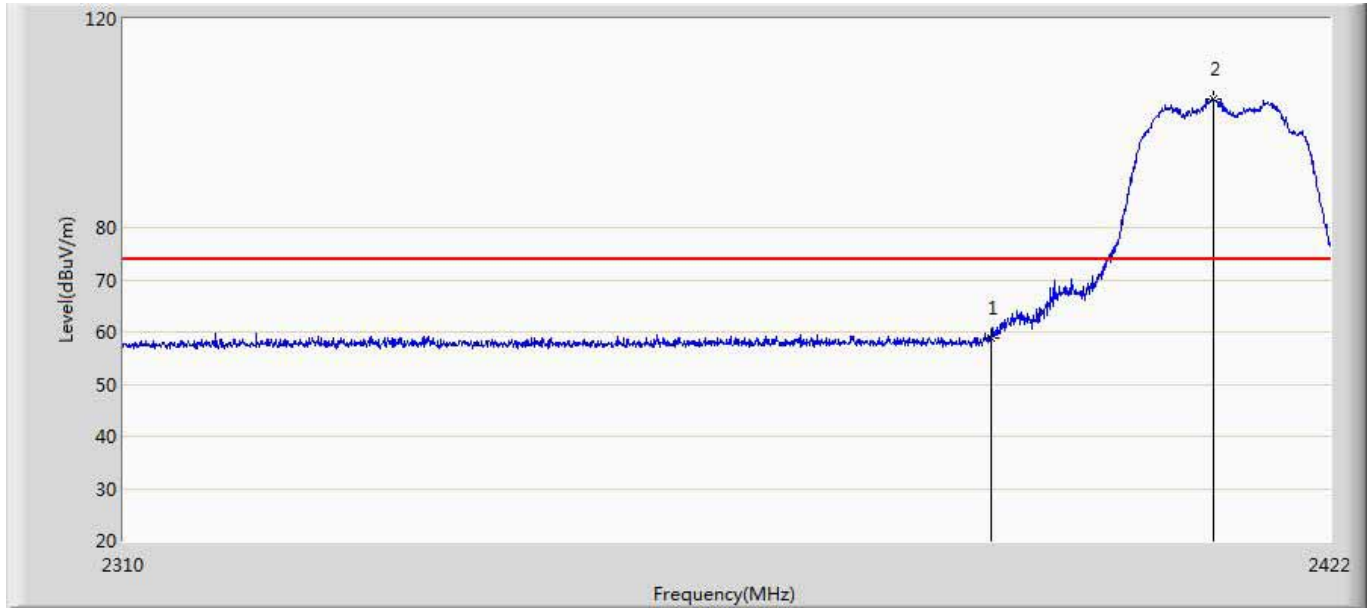
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	72.019	35.933	-1.981	74.000	36.086	PK
2	*	2410.856	116.303	80.145	42.303	74.000	36.159	PK

Engineer: Simon	
Site: AC5	Time: 2016/09/03 - 12:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2412MHz by 802.11g	



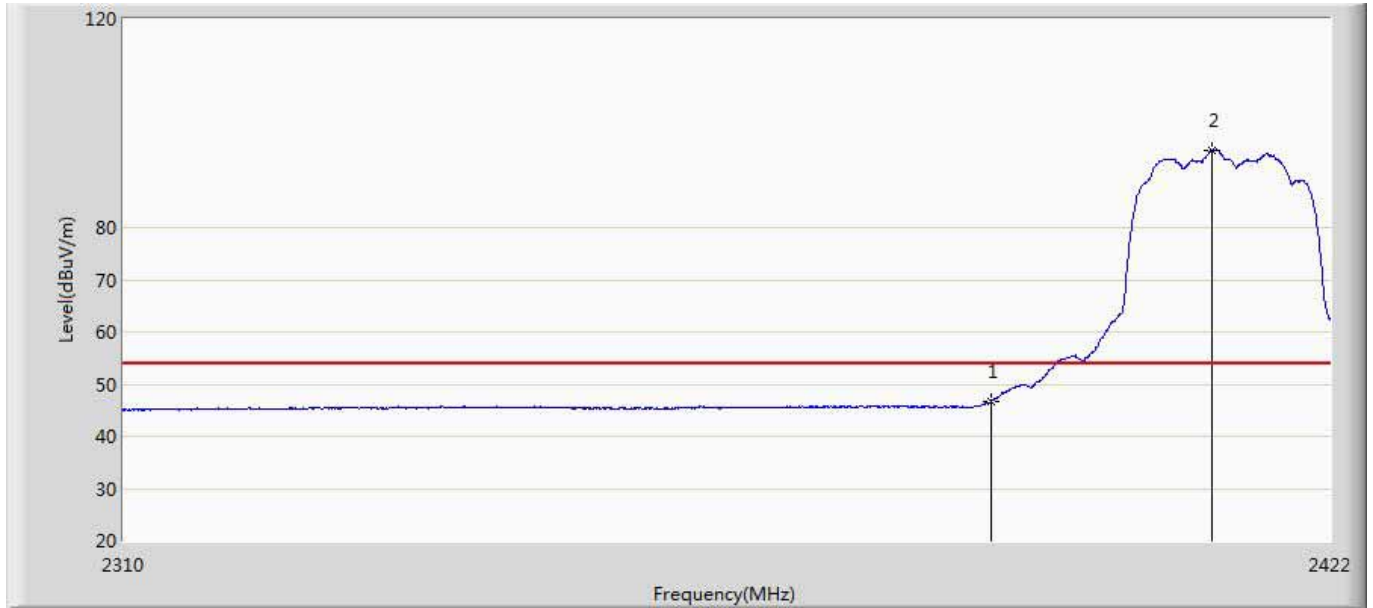
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.276	17.190	-0.724	54.000	36.086	AV
2	*	2416.792	99.689	63.528	45.689	54.000	36.161	AV

Engineer: Simon	
Site: AC5	Time: 2016/09/03 - 12:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2412MHz by 802.11g	



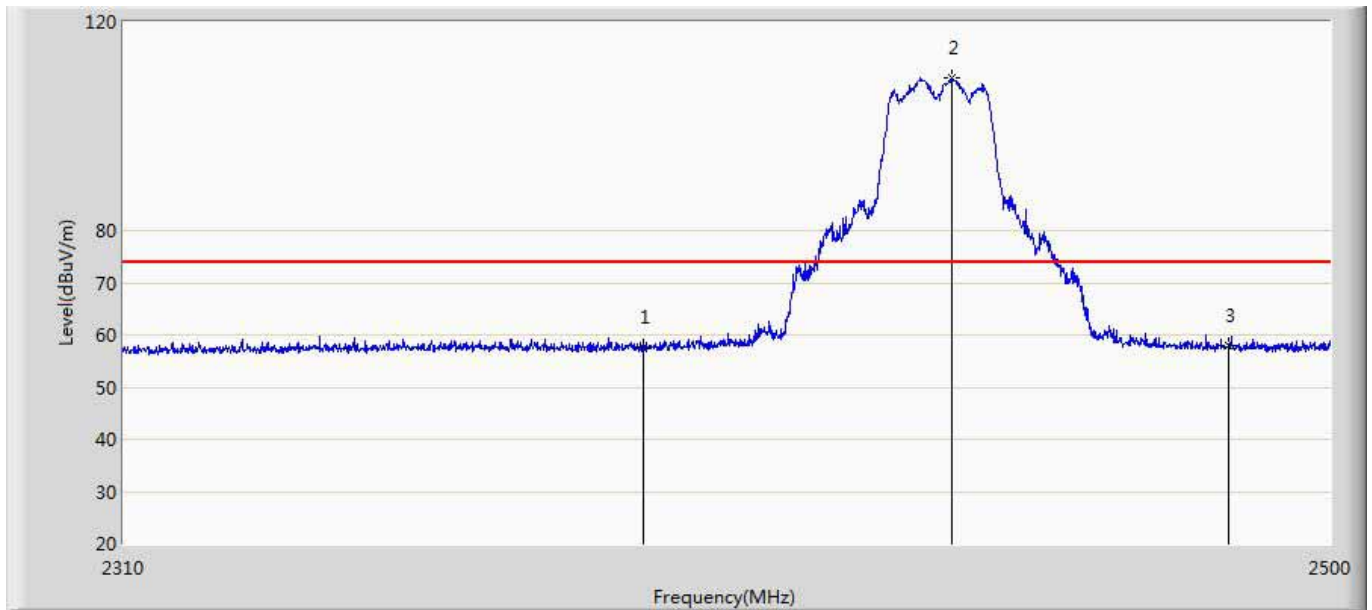
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	58.741	22.655	-15.259	74.000	36.086	PK
2	*	2411.024	104.642	68.483	30.642	74.000	36.159	PK

Engineer: Simon	
Site: AC5	Time: 2016/09/03 - 12:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2412MHz by 802.11g	



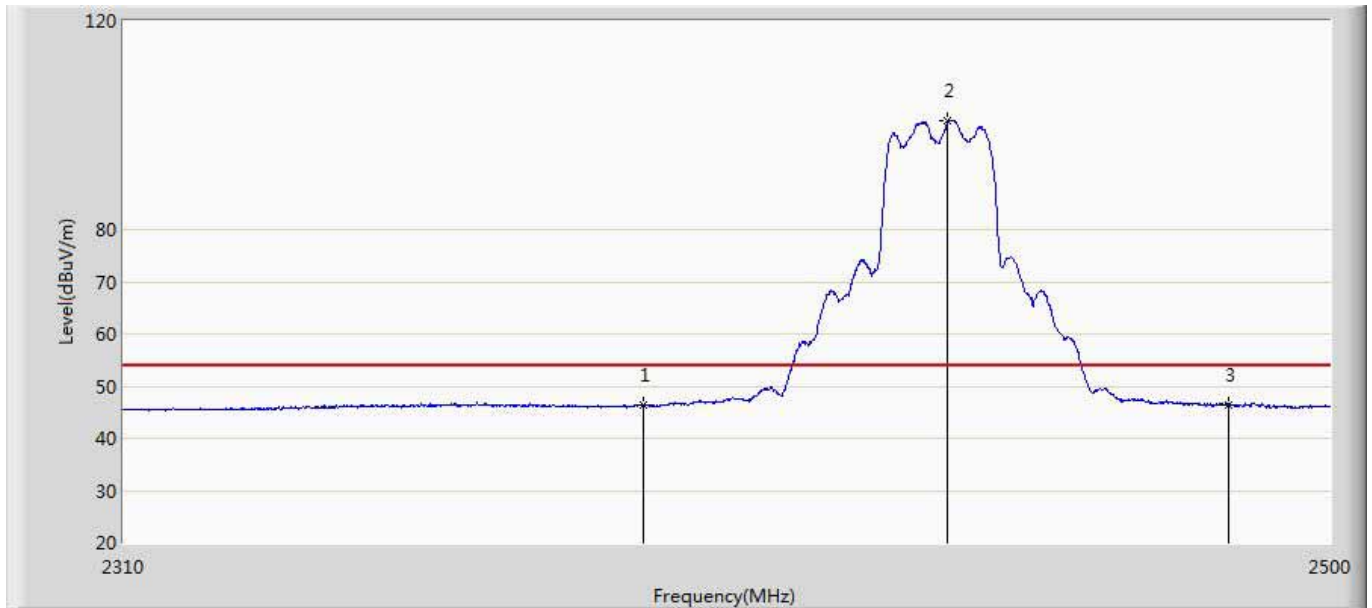
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	46.593	10.507	-7.407	54.000	36.086	AV
2	*	2410.856	94.920	58.762	40.920	54.000	36.159	AV

Engineer: Simon	
Site: AC5	Time: 2016/11/03 - 09:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: TL-WA801ND	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2437MHz by 802.11g	



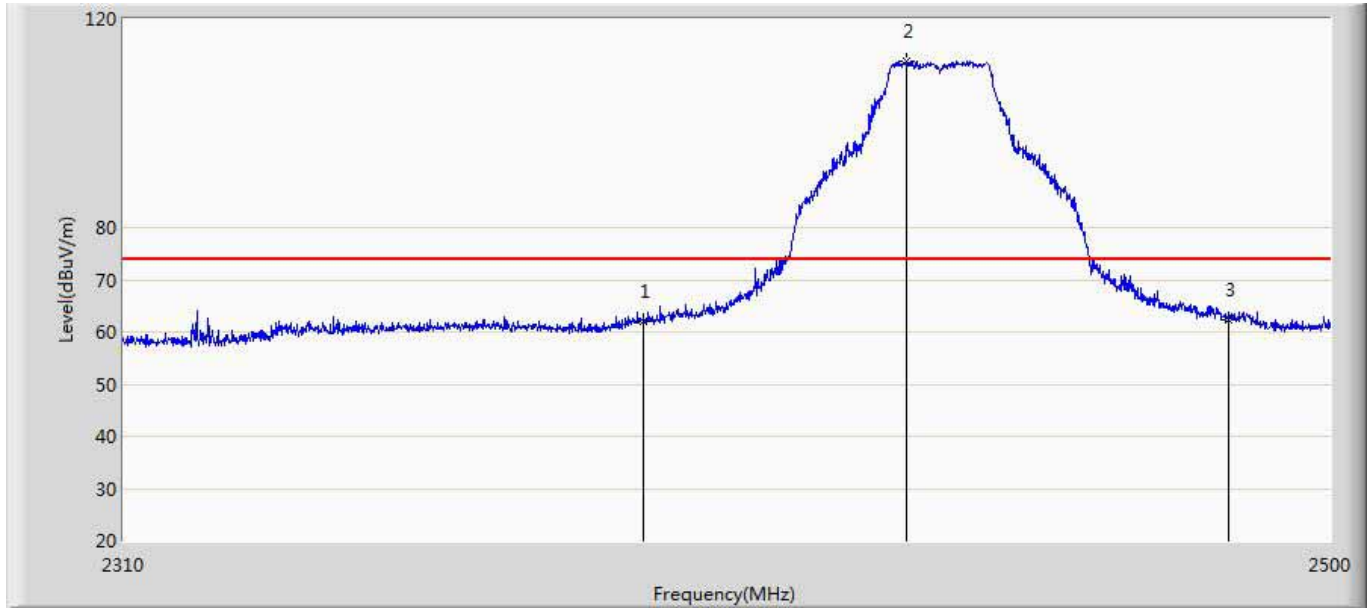
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	57.586	21.500	-16.414	74.000	36.086	PK
2	*	2438.915	109.246	73.046	35.246	74.000	36.200	PK
3		2483.500	58.005	21.744	-15.995	74.000	36.261	PK

Engineer: Simon	
Site: AC5	Time: 2016/11/03 - 09:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: TL-WA801ND	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2437MHz by 802.11g	



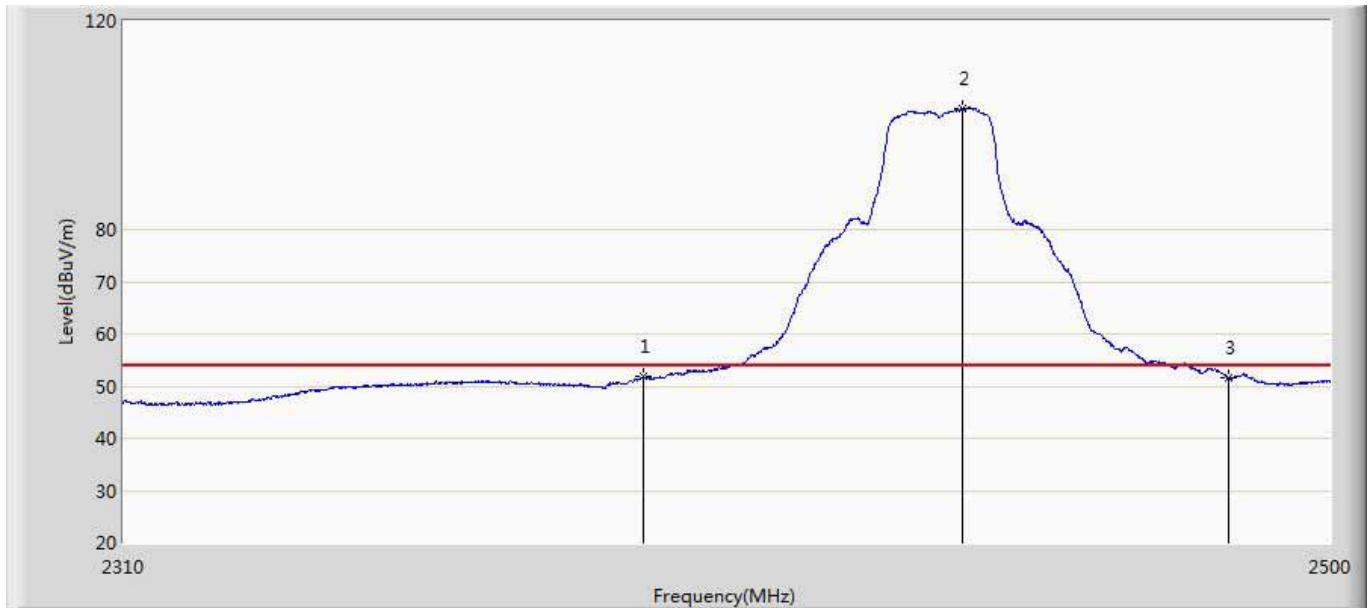
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	46.484	10.398	-7.516	54.000	36.086	AV
2	*	2438.155	100.800	64.602	46.800	54.000	36.198	AV
3		2483.500	46.344	10.083	-7.656	54.000	36.261	AV

Engineer: Simon	
Site: AC5	Time: 2016/11/03 - 09:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: TL-WA801ND	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2437MHz by 802.11g	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	62.007	25.921	-11.993	74.000	36.086	PK
2	*	2431.600	111.842	75.665	37.842	74.000	36.176	PK
3		2483.500	62.340	26.079	-11.660	74.000	36.261	PK

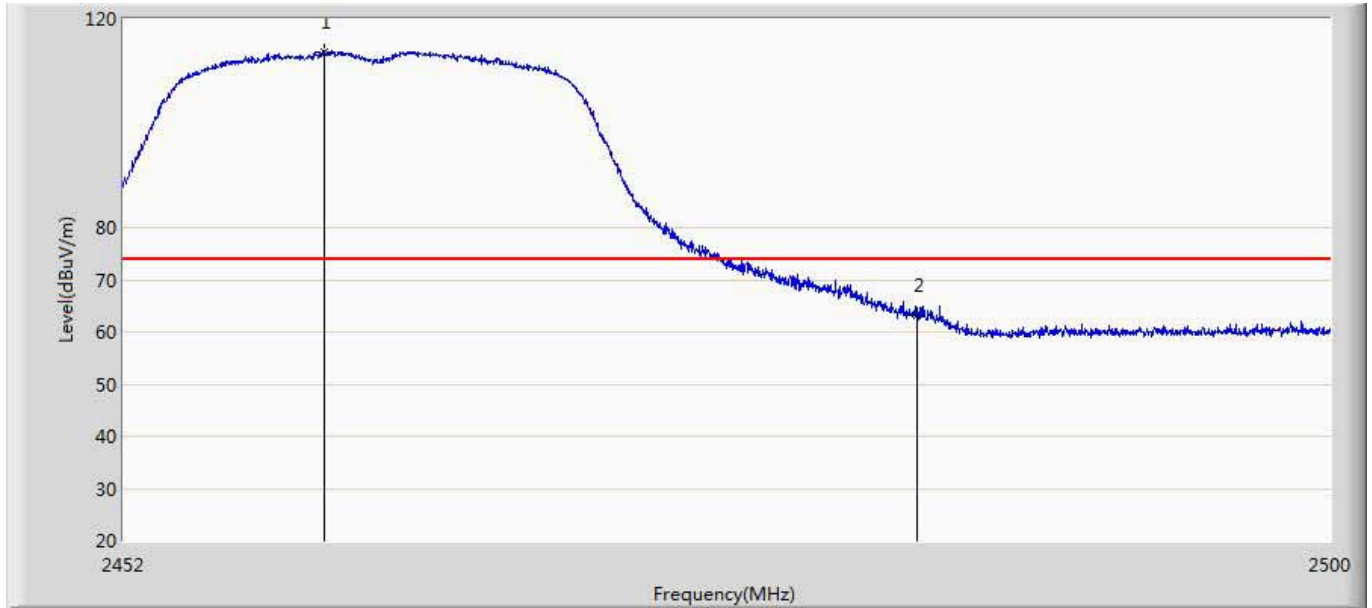
Engineer: Simon	
Site: AC5	Time: 2016/11/03 - 09:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: TL-WA801ND	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2437MHz by 802.11g	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	51.800	15.714	-2.200	54.000	36.086	AV
2	*	2440.530	103.113	66.907	49.113	54.000	36.206	AV
3		2483.500	51.566	15.304	-2.434	54.000	36.261	AV

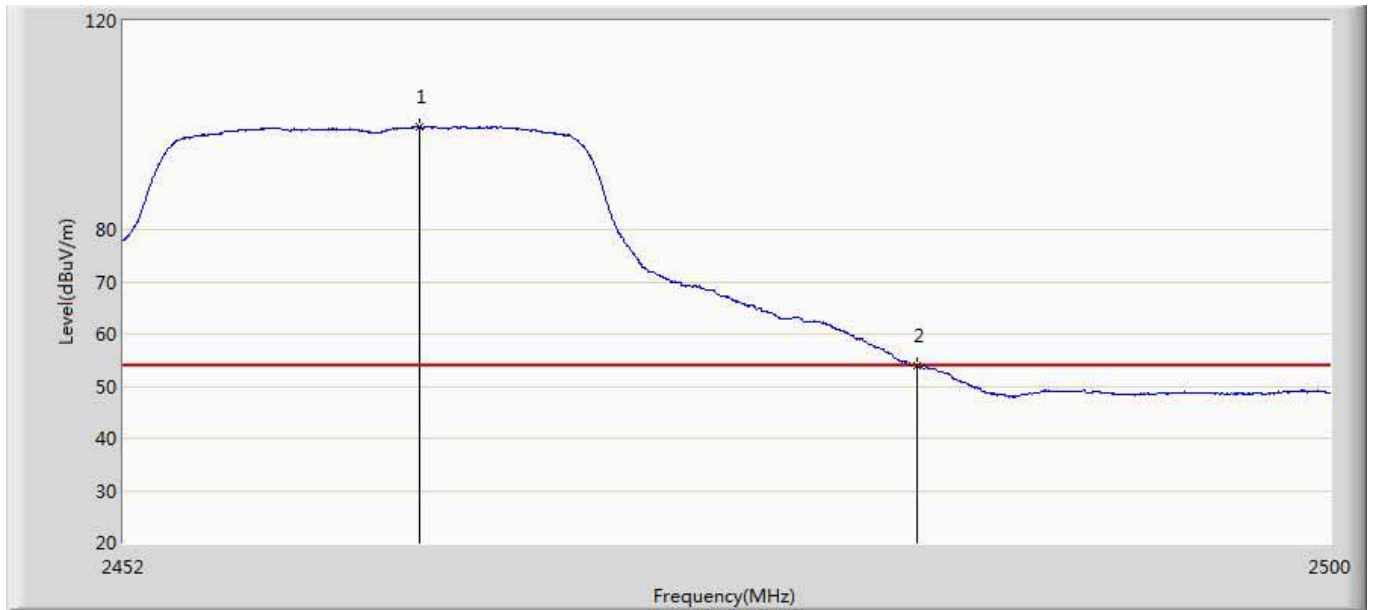


Engineer: Simon	
Site: AC5	Time: 2016/09/03 - 12:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2462MHz by 802.11g	



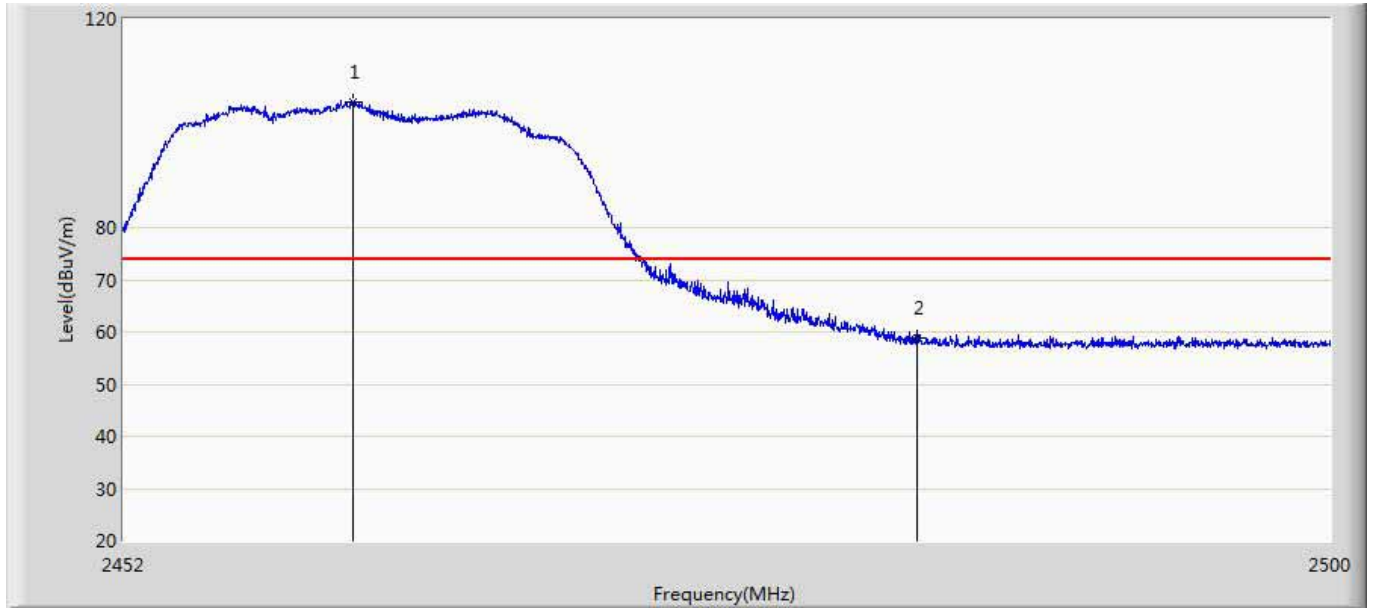
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2459.944	113.719	77.506	39.719	74.000	36.213	PK
2		2483.500	63.203	26.942	-10.797	74.000	36.261	PK

Engineer: Simon	
Site: AC5	Time: 2016/09/03 - 12:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2462MHz by 802.11g	



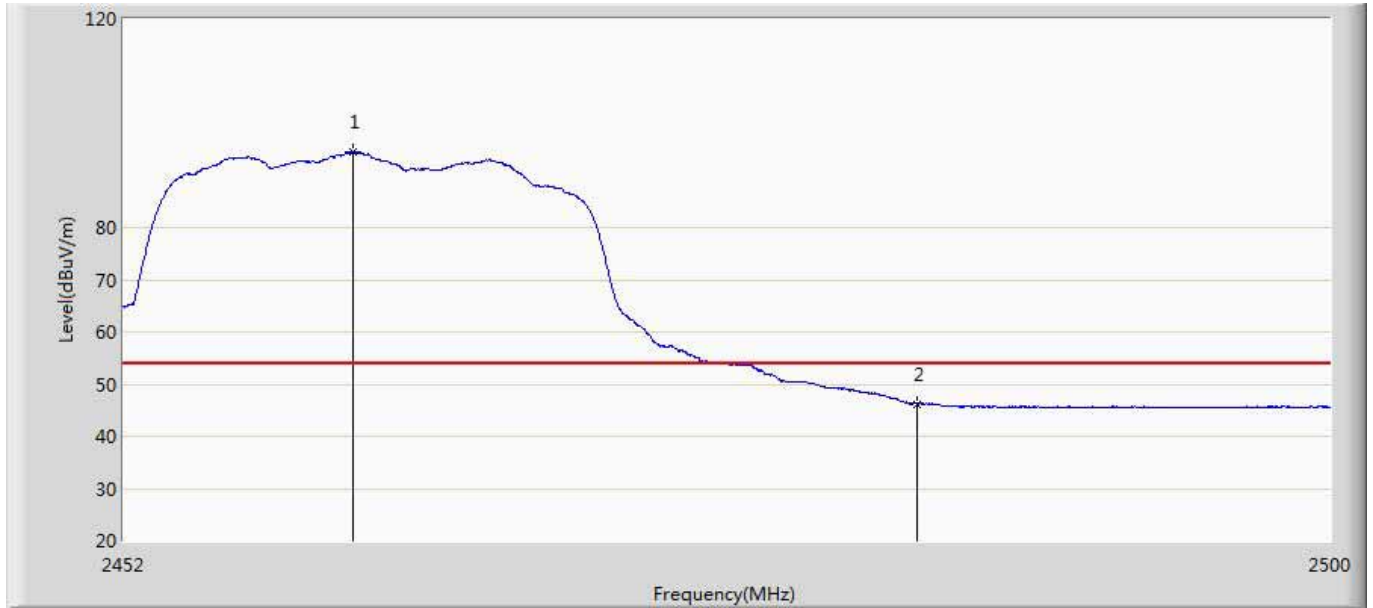
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2463.688	99.719	63.503	45.719	54.000	36.215	AV
2		2483.500	53.813	17.552	-0.187	54.000	36.261	AV

Engineer: Simon	
Site: AC5	Time: 2016/09/03 - 12:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2462MHz by 802.11g	



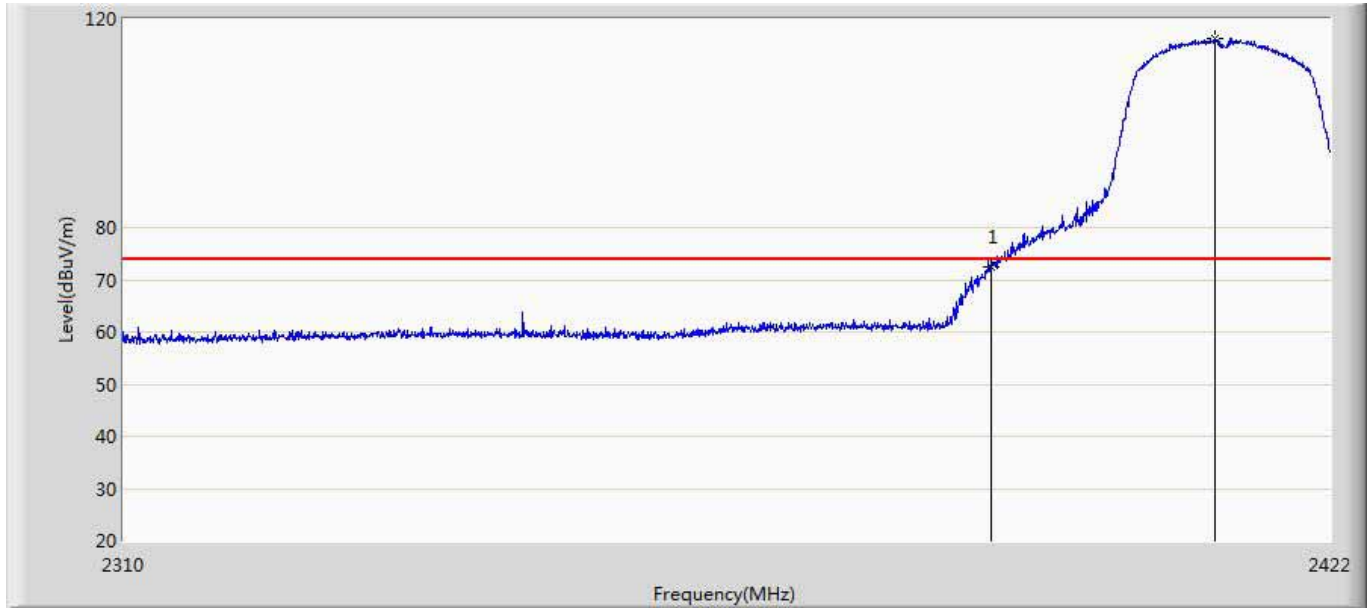
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2461.072	104.008	67.796	30.008	74.000	36.213	PK
2		2483.500	58.778	22.517	-15.222	74.000	36.261	PK

Engineer: Simon	
Site: AC5	Time: 2016/09/03 - 12:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2462MHz by 802.11g	



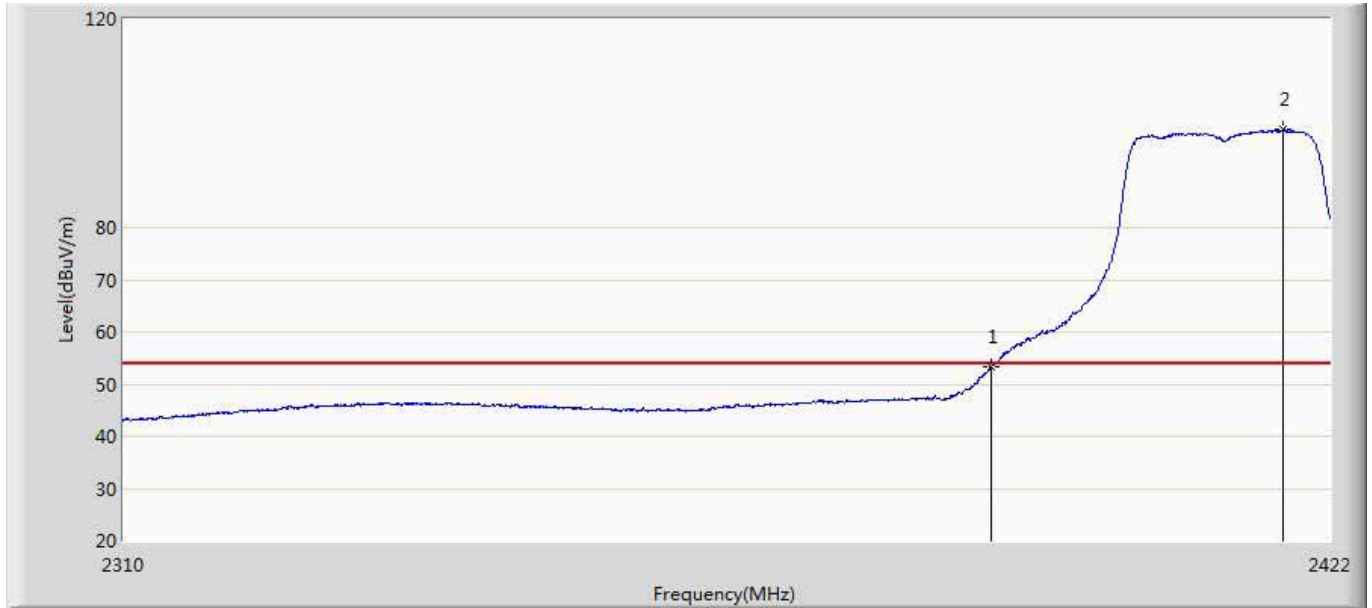
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2461.048	94.451	58.239	40.451	54.000	36.213	AV
2		2483.500	46.231	9.970	-7.769	54.000	36.261	AV

Engineer: Simon	
Site: AC5	Time: 2016/09/03 - 12:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2412MHz by 802.11n20	



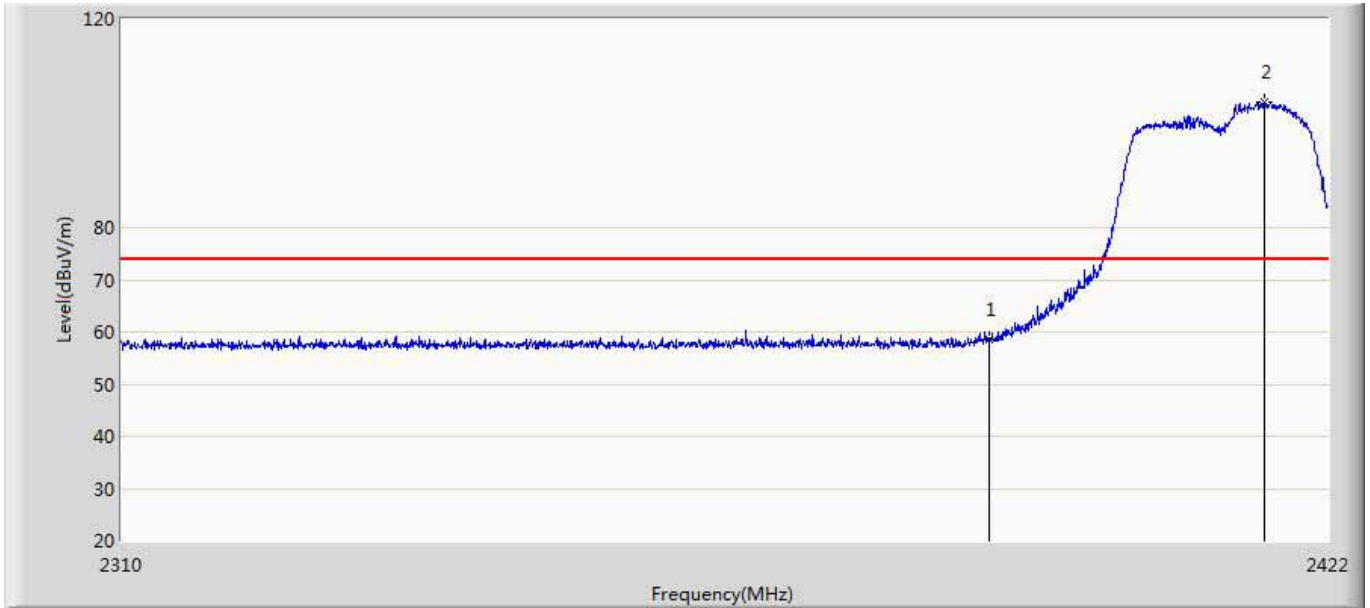
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	72.525	36.439	-1.475	74.000	36.086	PK
2	*	2411.136	116.143	79.984	42.143	74.000	36.159	PK

Engineer: Simon	
Site: AC5	Time: 2016/09/03 - 13:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2412MHz by 802.11n20	



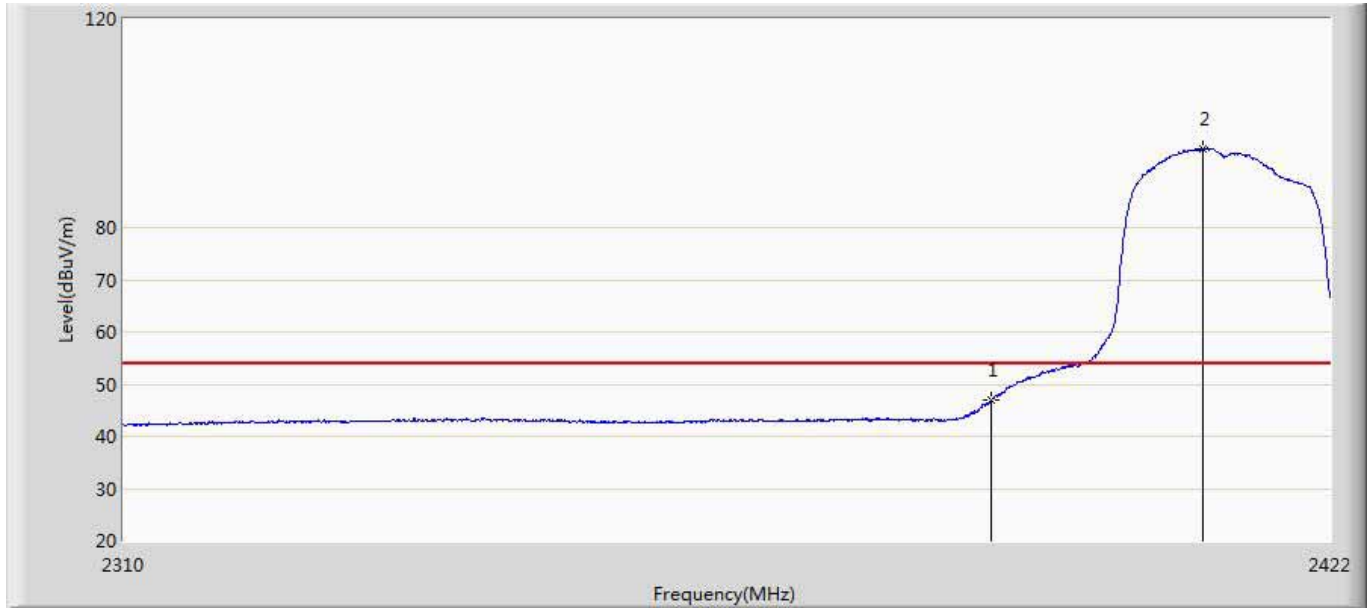
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.337	17.251	-0.663	54.000	36.086	AV
2	*	2417.576	98.797	62.636	44.797	54.000	36.161	AV

Engineer: Simon	
Site: AC5	Time: 2016/09/03 - 13:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2412MHz by 802.11n20	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	58.668	22.582	-15.332	74.000	36.086	PK
2	*	2415.952	104.062	67.901	30.062	74.000	36.161	PK

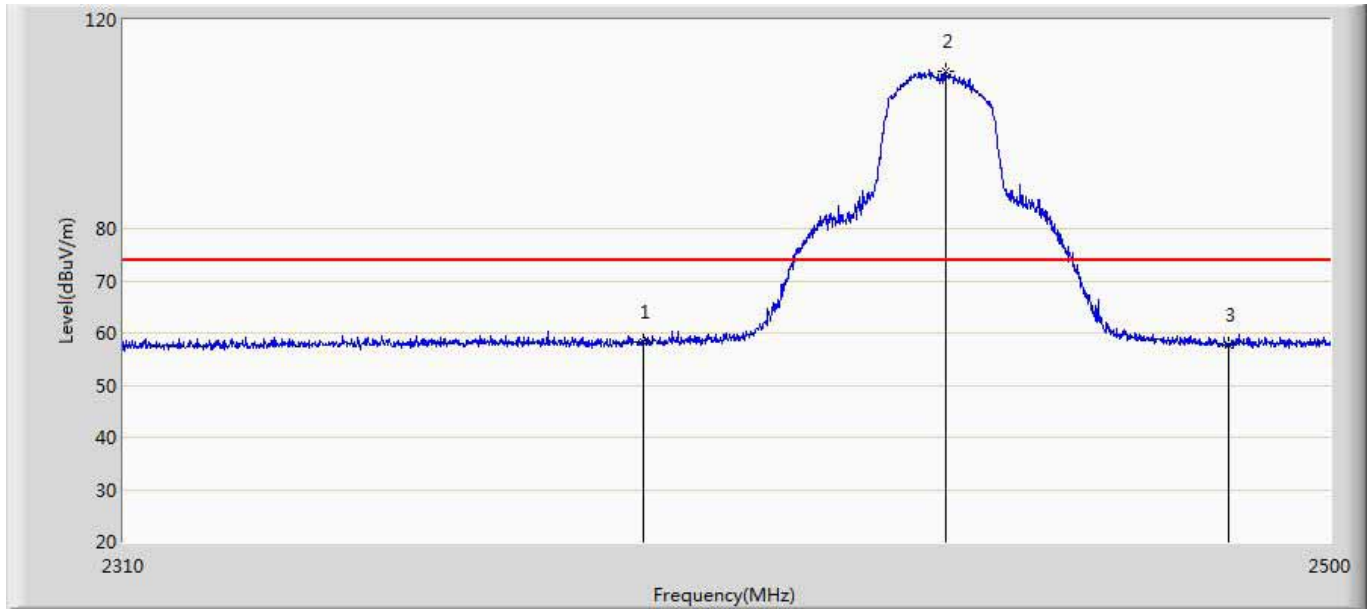
Engineer: Simon	
Site: AC5	Time: 2016/09/03 - 13:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2412MHz by 802.11n20	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	46.914	10.828	-7.086	54.000	36.086	AV
2	*	2409.960	95.151	58.996	41.151	54.000	36.155	AV

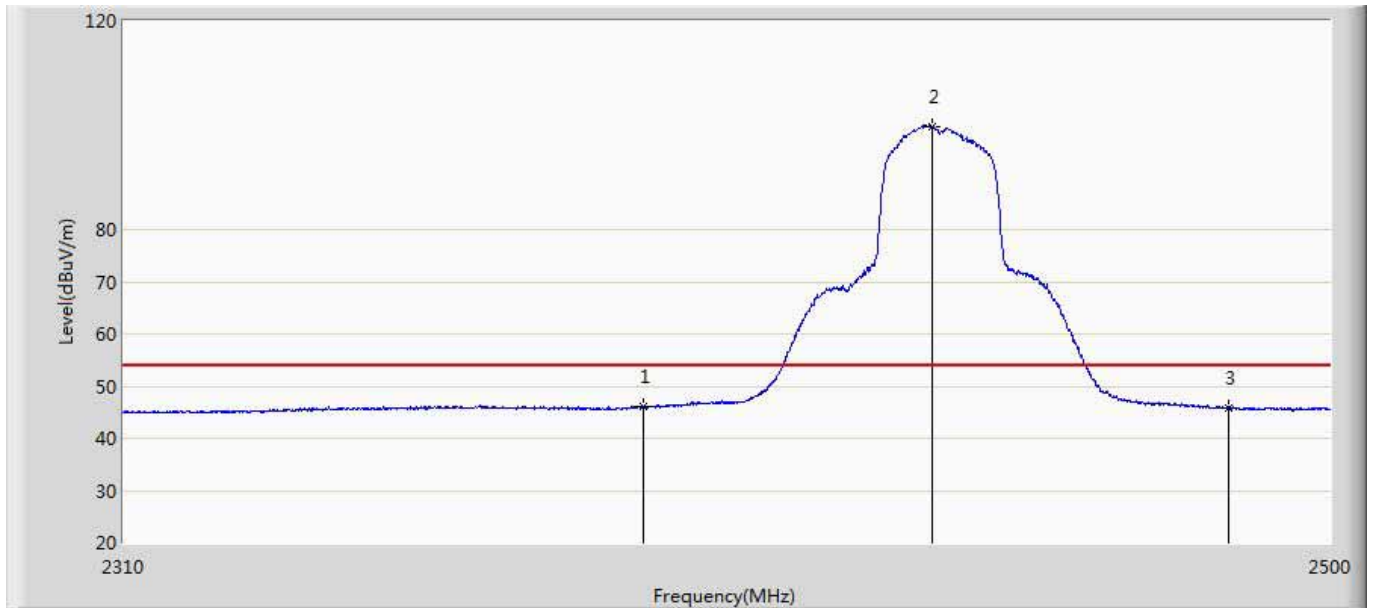


Engineer: Simon	
Site: AC5	Time: 2016/11/03 - 09:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: TL-WA801ND	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2437MHz by 802.11n20	



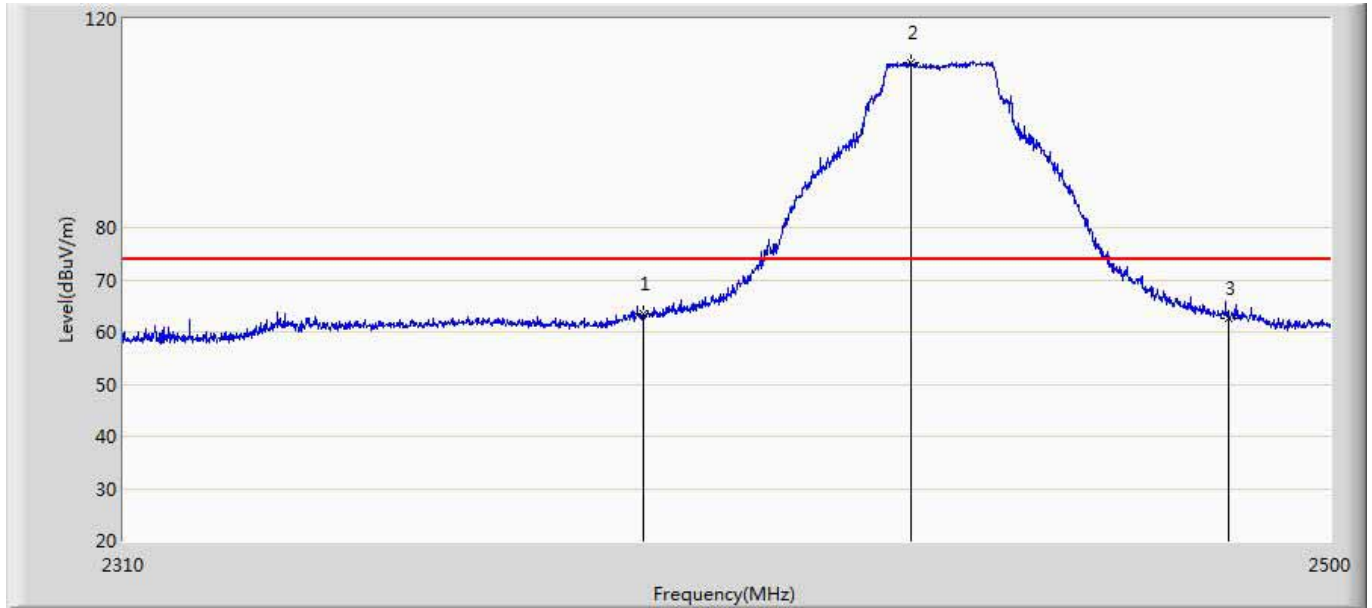
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	58.353	22.267	-15.647	74.000	36.086	PK
2	*	2437.775	110.025	73.828	36.025	74.000	36.197	PK
3		2483.500	57.593	21.331	-16.407	74.000	36.261	PK

Engineer: Simon	
Site: AC5	Time: 2016/11/03 - 09:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: TL-WA801ND	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2437MHz by 802.11n20	



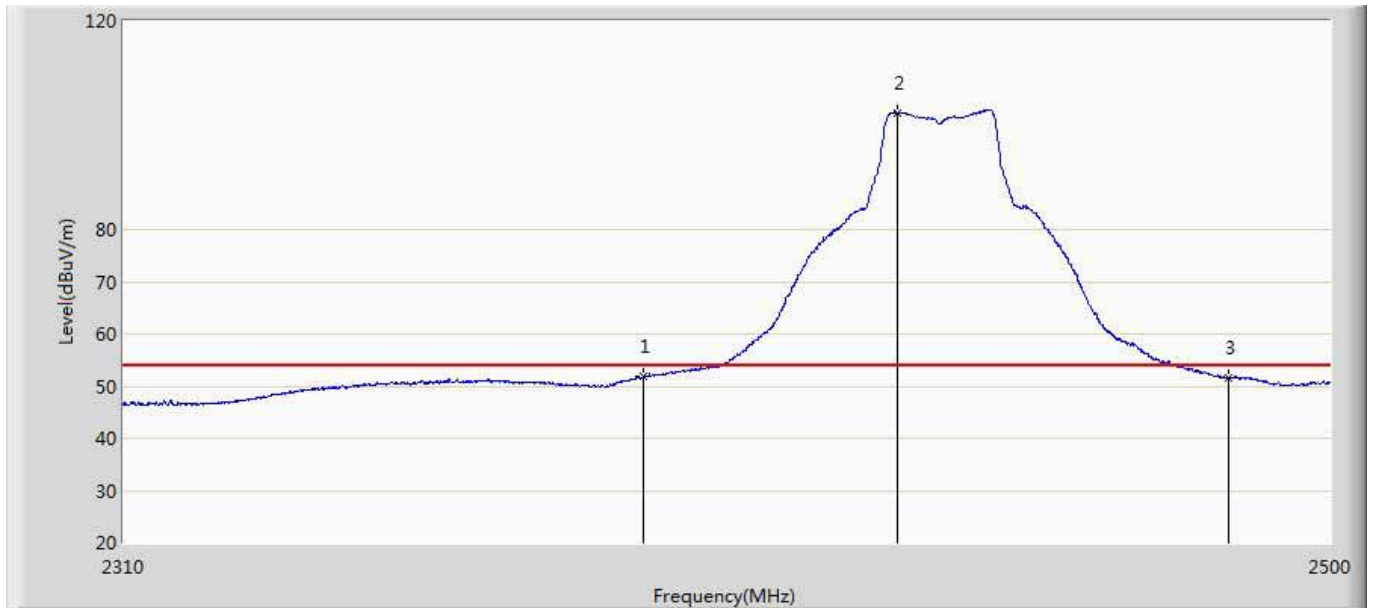
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	46.061	9.975	-7.939	54.000	36.086	AV
2	*	2435.780	99.766	63.576	45.766	54.000	36.190	AV
3		2483.500	45.819	9.557	-8.181	54.000	36.261	AV

Engineer: Simon	
Site: AC5	Time: 2016/11/03 - 10:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: TL-WA801ND	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2437MHz by 802.11n20	



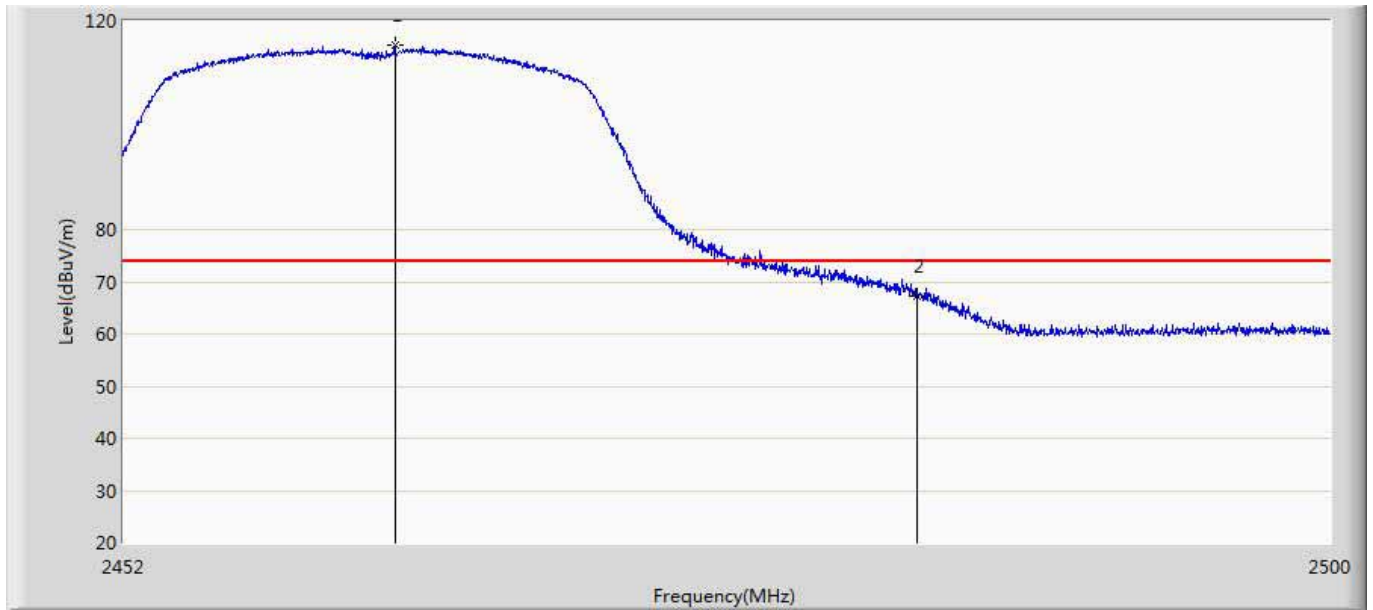
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	63.446	27.360	-10.554	74.000	36.086	PK
2	*	2432.455	111.532	75.353	37.532	74.000	36.179	PK
3		2483.500	62.660	26.399	-11.340	74.000	36.261	PK

Engineer: Simon	
Site: AC5	Time: 2016/11/03 - 10:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: TL-WA801ND	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2437MHz by 802.11n20	



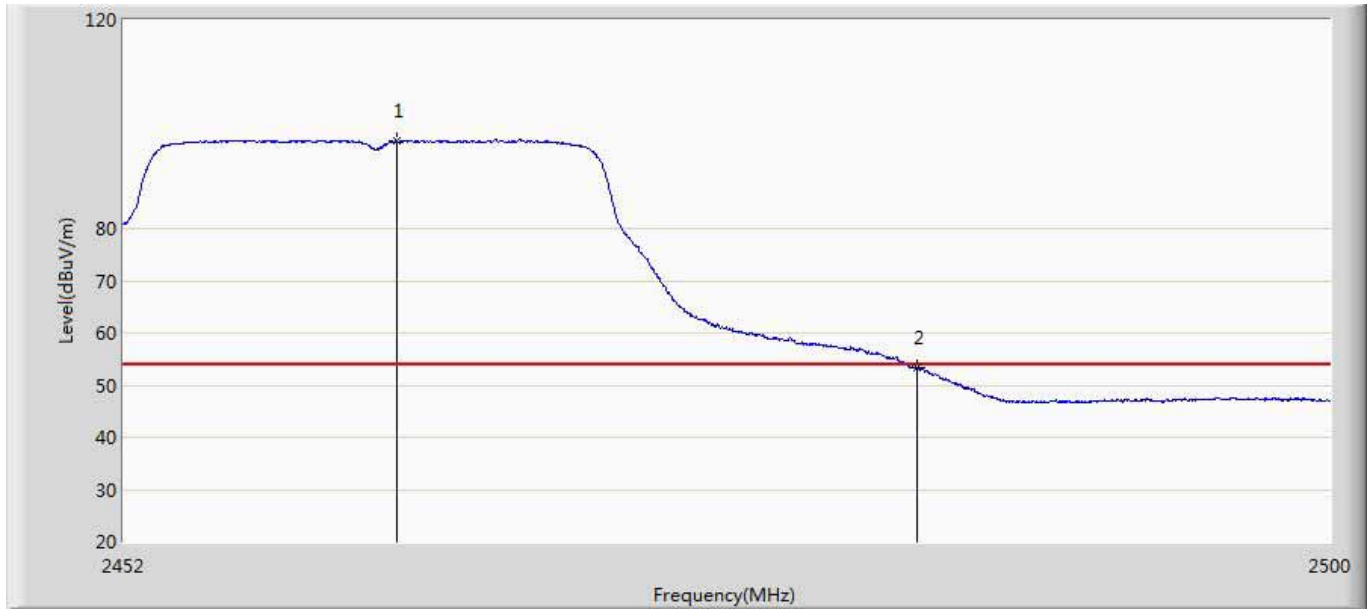
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	51.750	15.664	-2.250	54.000	36.086	AV
2	*	2430.175	102.458	66.286	48.458	54.000	36.172	AV
3		2483.500	51.558	15.297	-2.442	54.000	36.261	AV

Engineer: Simon	
Site: AC5	Time: 2016/09/03 - 13:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2462MHz by 802.11n20	



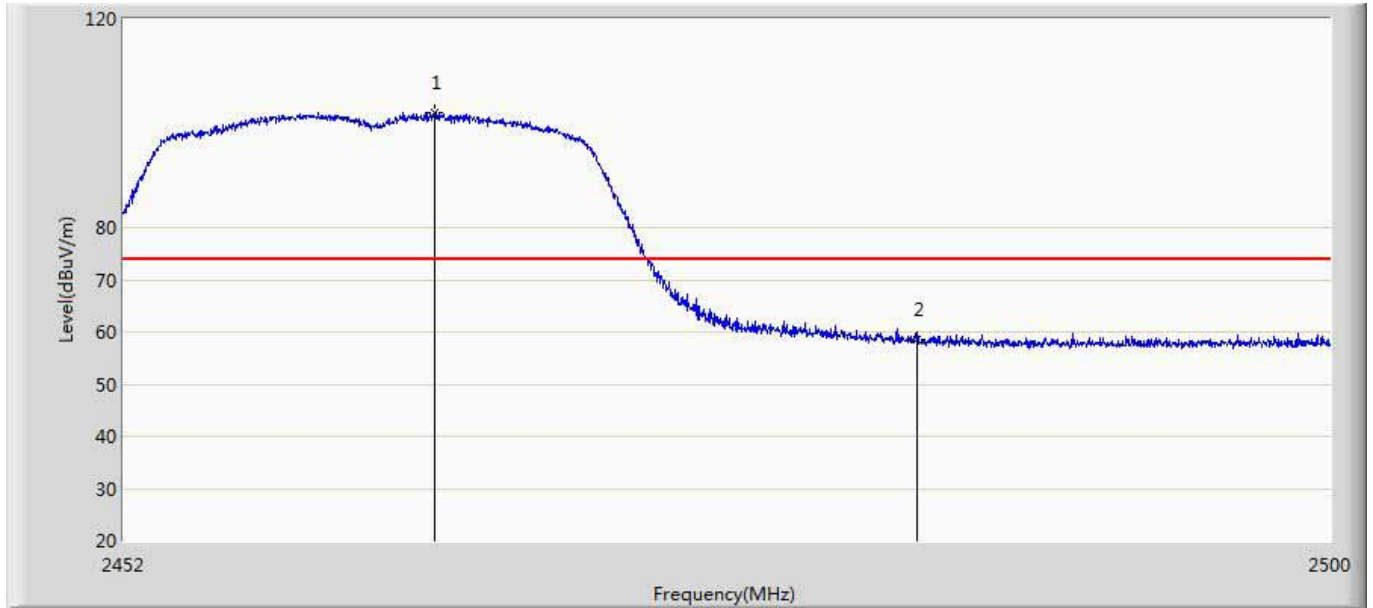
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2462.728	115.290	79.076	41.290	74.000	36.214	PK
2		2483.500	67.204	30.943	-6.796	74.000	36.261	PK

Engineer: Simon	
Site: AC5	Time: 2016/09/03 - 13:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2462MHz by 802.11n20	



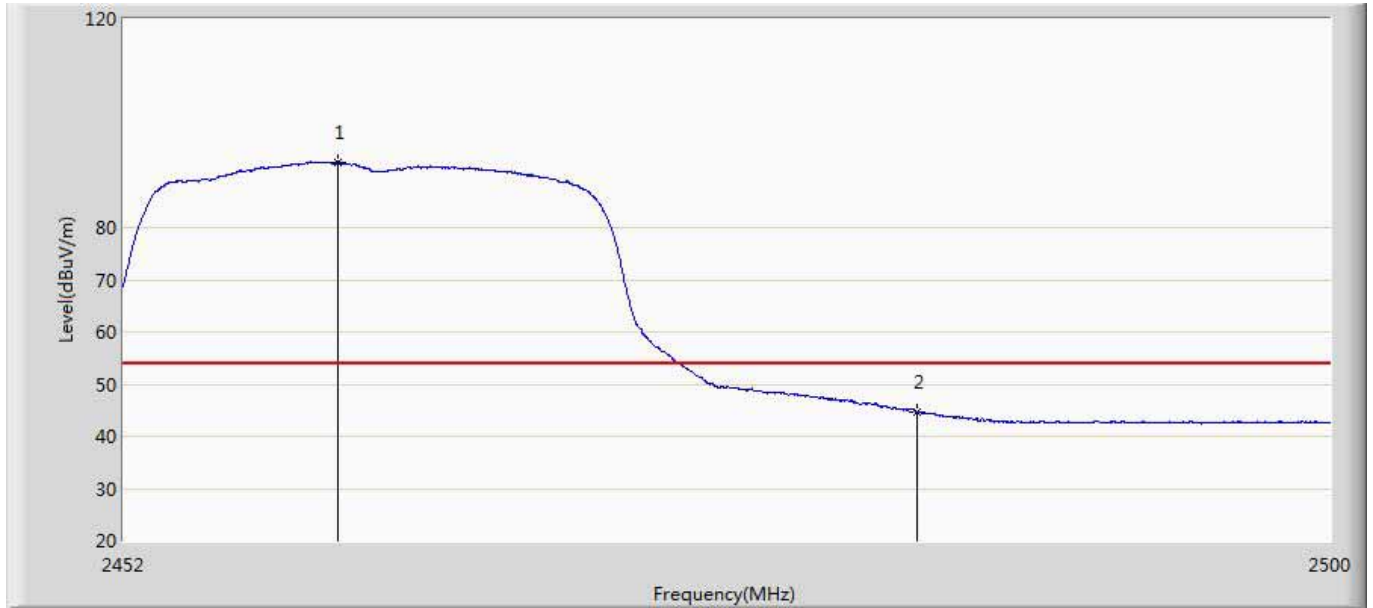
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2462.800	96.891	60.677	42.891	54.000	36.214	AV
2		2483.500	53.224	16.963	-0.776	54.000	36.261	AV

Engineer: Simon	
Site: AC5	Time: 2016/09/03 - 13:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2462MHz by 802.11n20	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2464.312	102.145	65.928	28.145	74.000	36.217	PK
2		2483.500	58.687	22.426	-15.312	74.000	36.261	PK

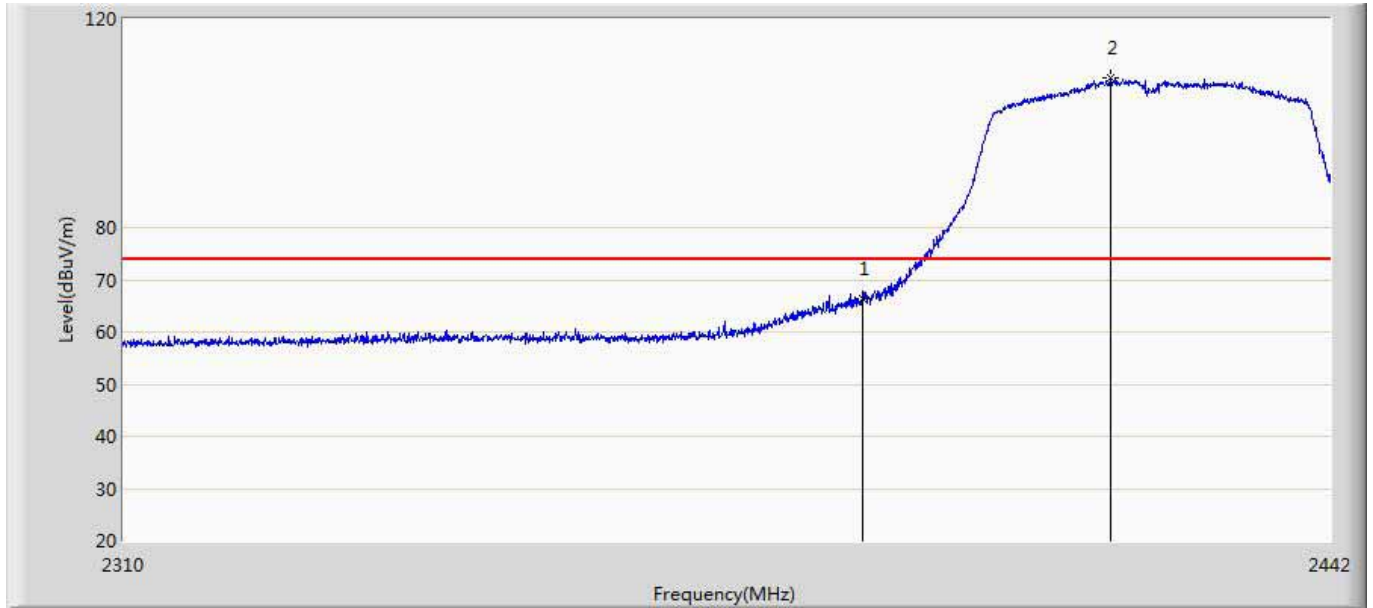
Engineer: Simon	
Site: AC5	Time: 2016/09/03 - 13:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2462MHz by 802.11n20	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2460.472	92.571	56.358	38.571	54.000	36.213	AV
2		2483.500	44.564	8.303	-9.436	54.000	36.261	AV

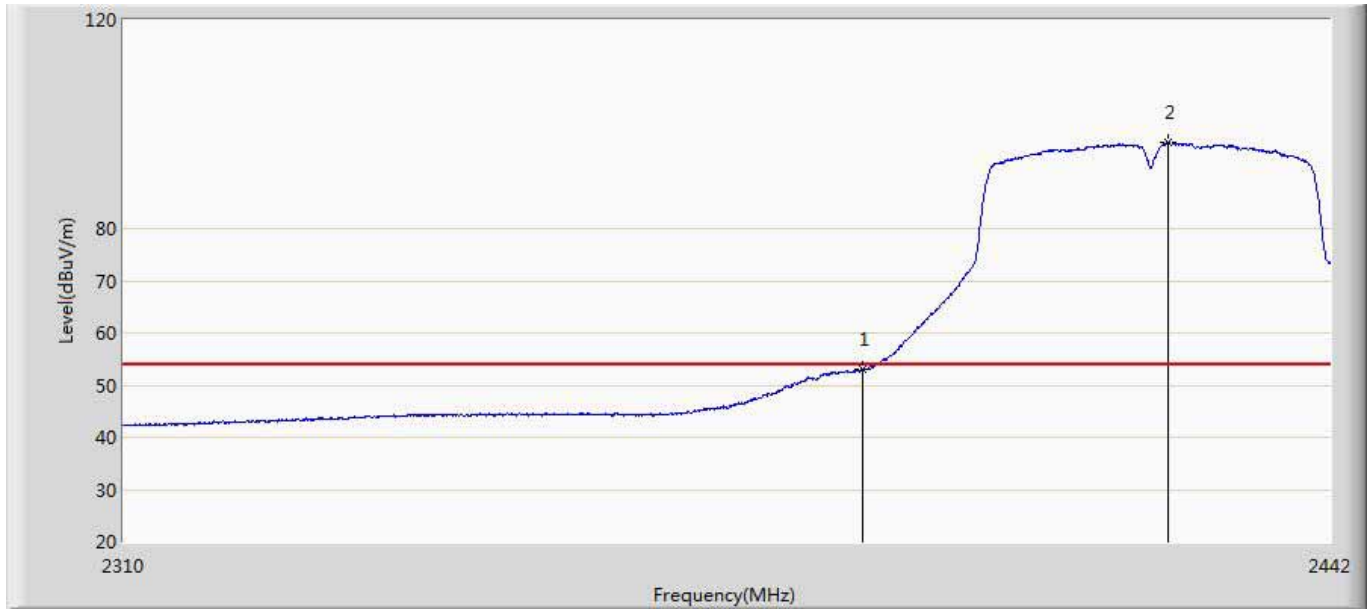


Engineer: Simon	
Site: AC5	Time: 2016/09/03 - 14:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2422MHz by 802.11n40	



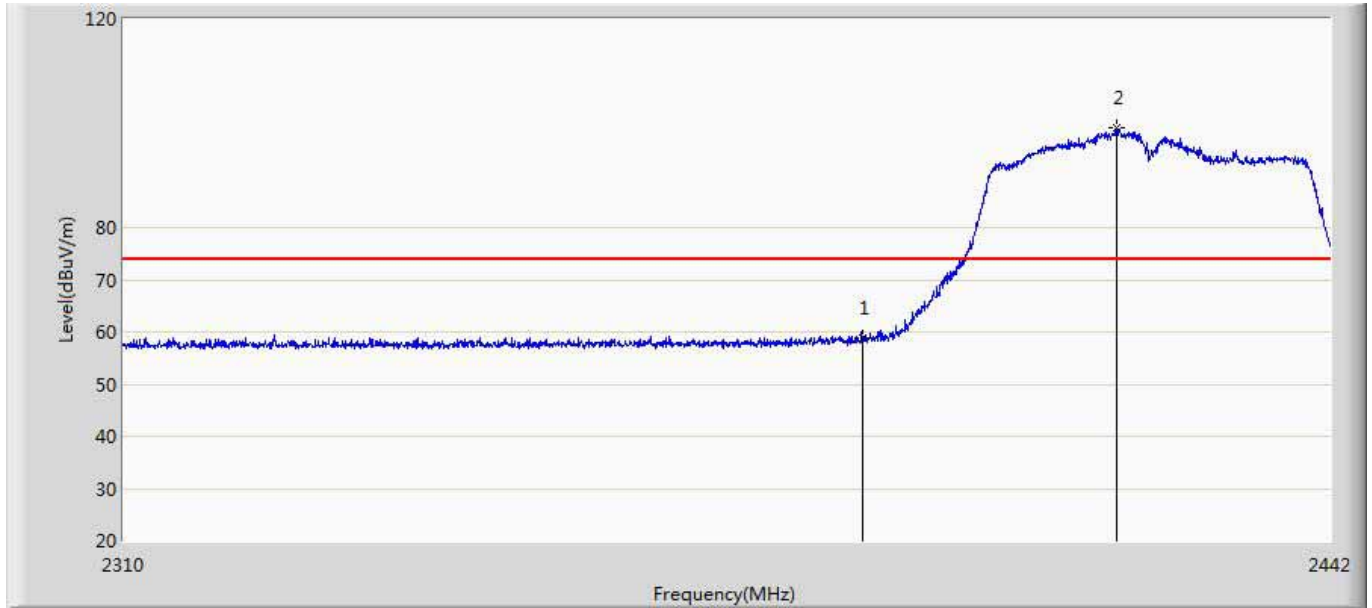
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	66.463	30.377	-7.537	74.000	36.086	PK
2	*	2417.514	108.678	72.517	34.678	74.000	36.161	PK

Engineer: Simon	
Site: AC5	Time: 2016/09/03 - 14:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2422MHz by 802.11n40	



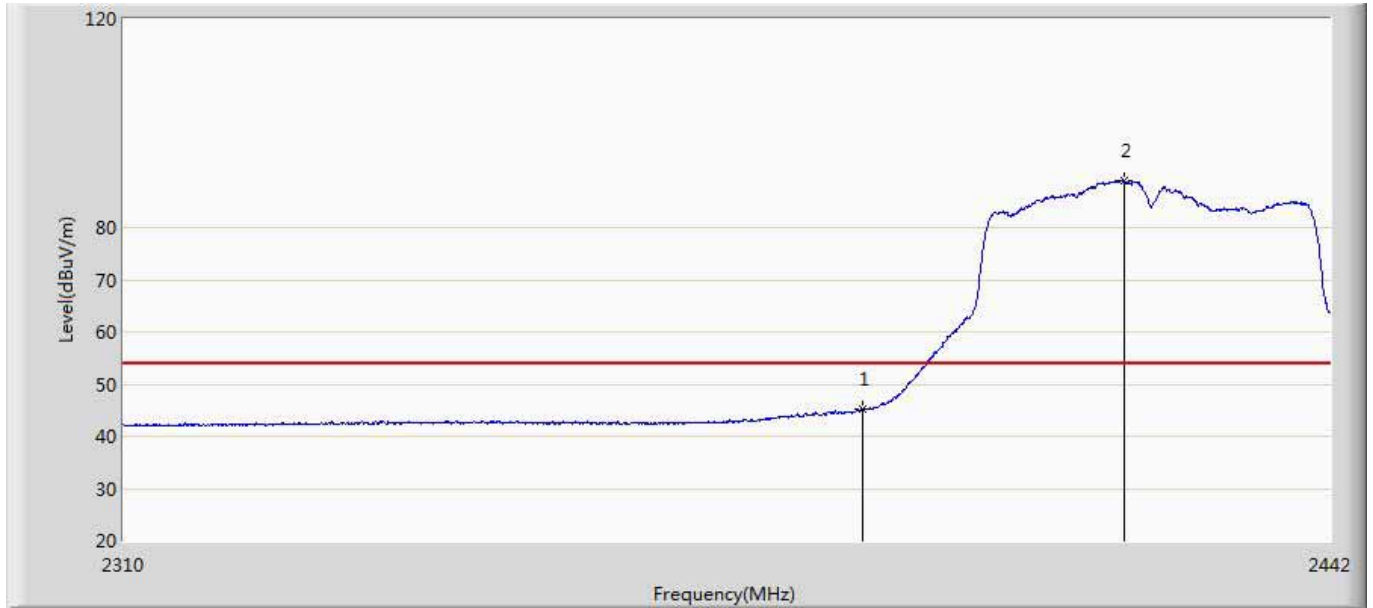
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.041	16.955	-0.959	54.000	36.086	AV
2	*	2423.850	96.598	60.434	42.598	54.000	36.164	AV

Engineer: Simon	
Site: AC5	Time: 2016/09/03 - 14:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2422MHz by 802.11n40	



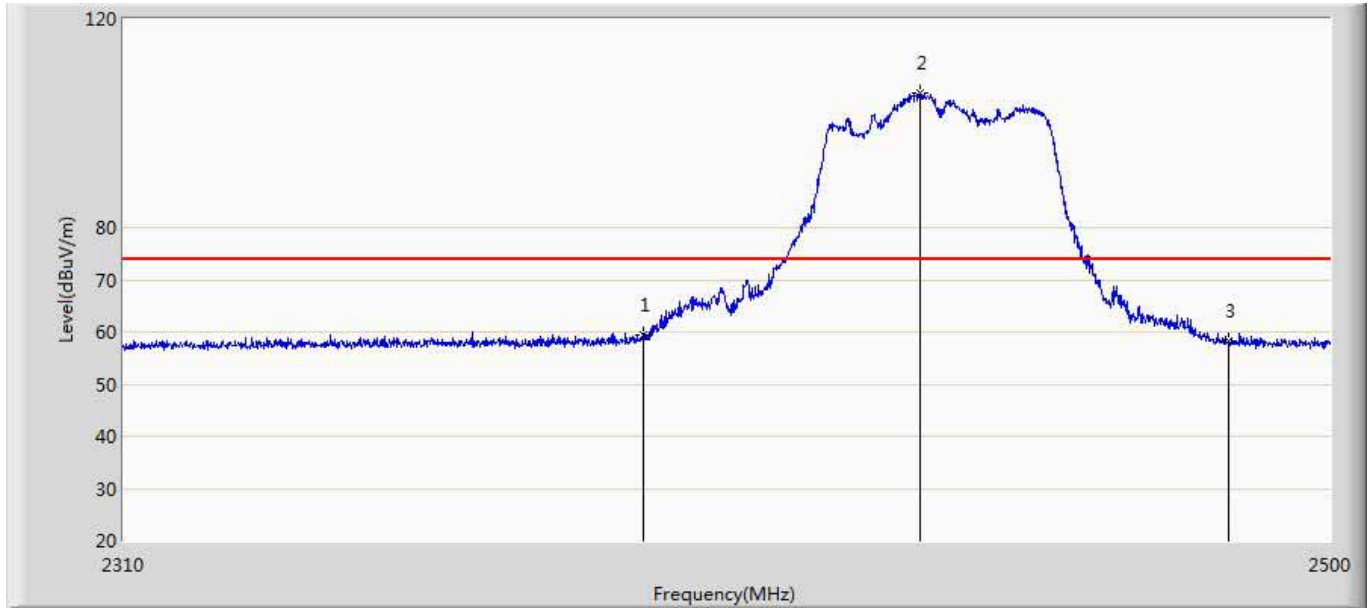
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	58.806	22.720	-15.194	74.000	36.086	PK
2	*	2418.108	99.087	62.925	25.087	74.000	36.162	PK

Engineer: Simon	
Site: AC5	Time: 2016/09/03 - 14:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2422MHz by 802.11n40	



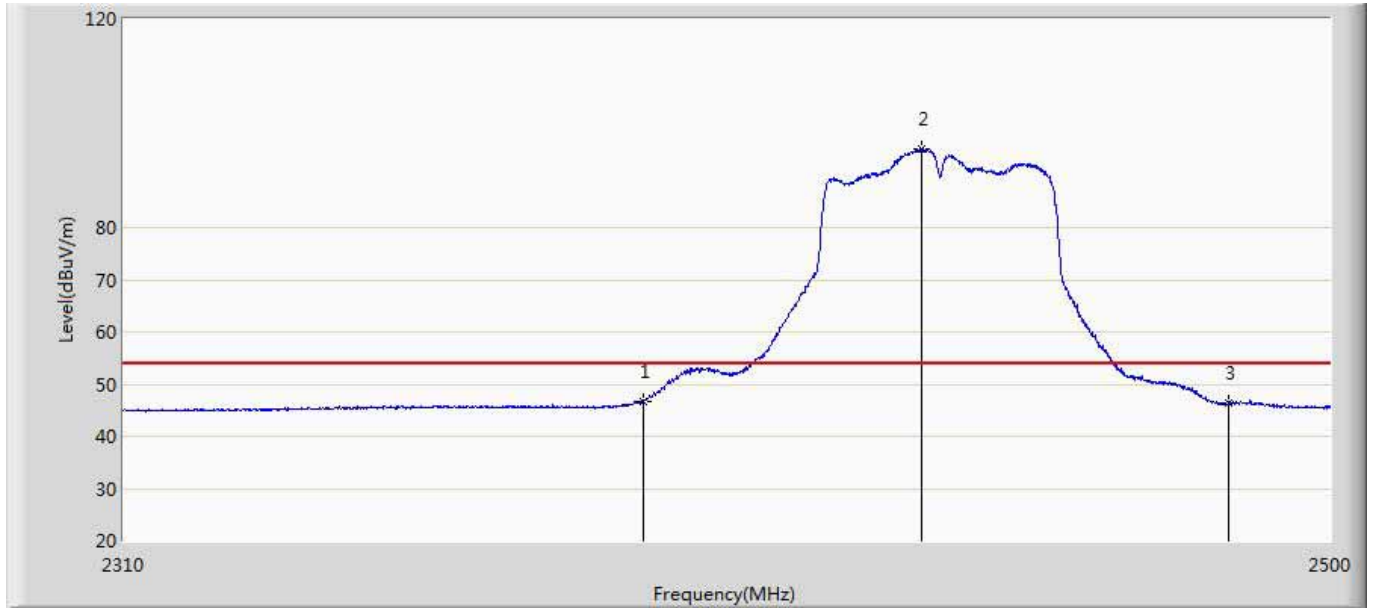
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	45.159	9.073	-8.841	54.000	36.086	AV
2	*	2418.900	89.040	52.878	35.040	54.000	36.162	AV

Engineer: Simon	
Site: AC5	Time: 2016/11/03 - 10:05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: TL-WA801ND	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2437MHz by 802.11n40	



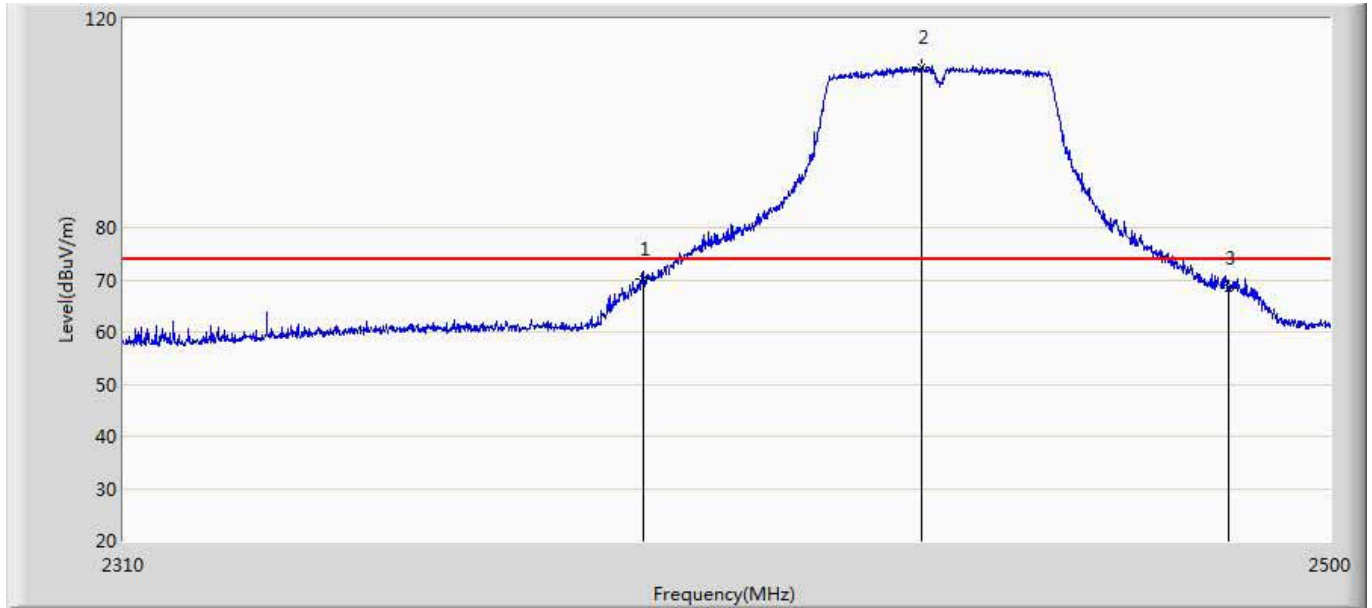
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	59.305	23.219	-14.695	74.000	36.086	PK
2	*	2433.785	105.867	69.683	31.867	74.000	36.184	PK
3		2483.500	58.171	21.910	-15.829	74.000	36.261	PK

Engineer: Simon	
Site: AC5	Time: 2016/11/03 - 10:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: TL-WA801ND	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2437MHz by 802.11n40	



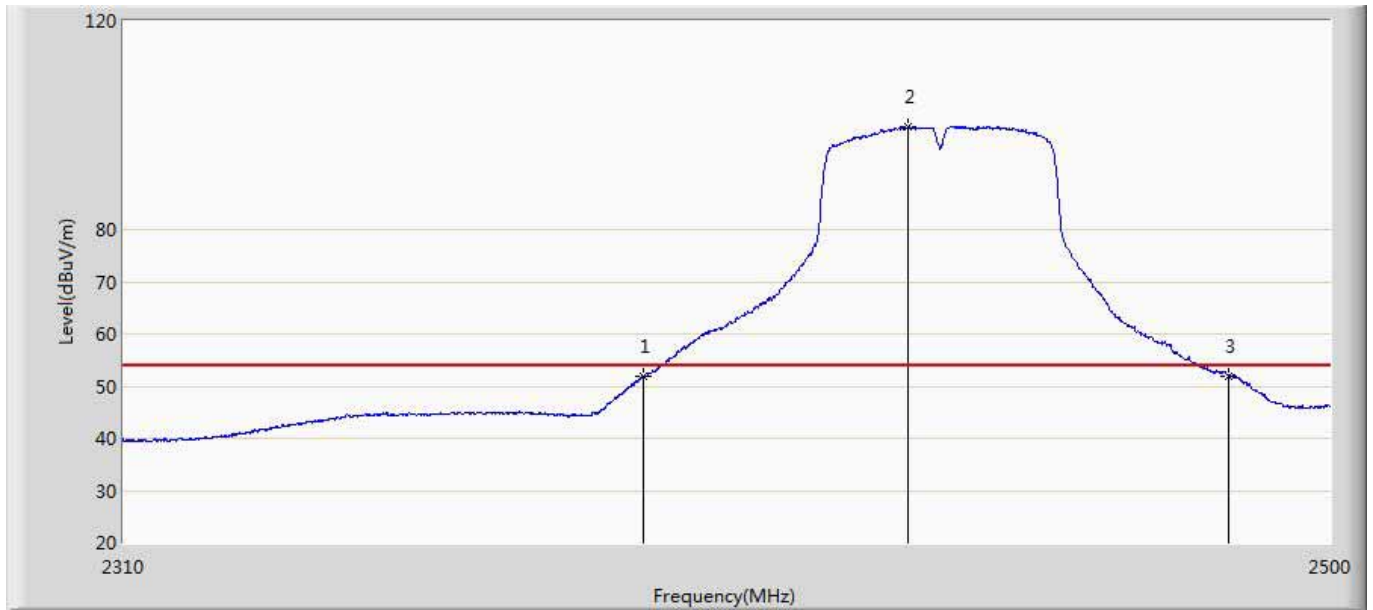
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	46.571	10.485	-7.429	54.000	36.086	AV
2	*	2433.975	95.027	58.843	41.027	54.000	36.184	AV
3		2483.500	46.450	10.188	-7.550	54.000	36.261	AV

Engineer: Simon	
Site: AC5	Time: 2016/11/03 - 10:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: TL-WA801ND	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2437MHz by 802.11n40	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	70.148	34.062	-3.852	74.000	36.086	PK
2	*	2434.070	110.857	74.672	36.857	74.000	36.184	PK
3		2483.500	68.540	32.279	-5.460	74.000	36.261	PK

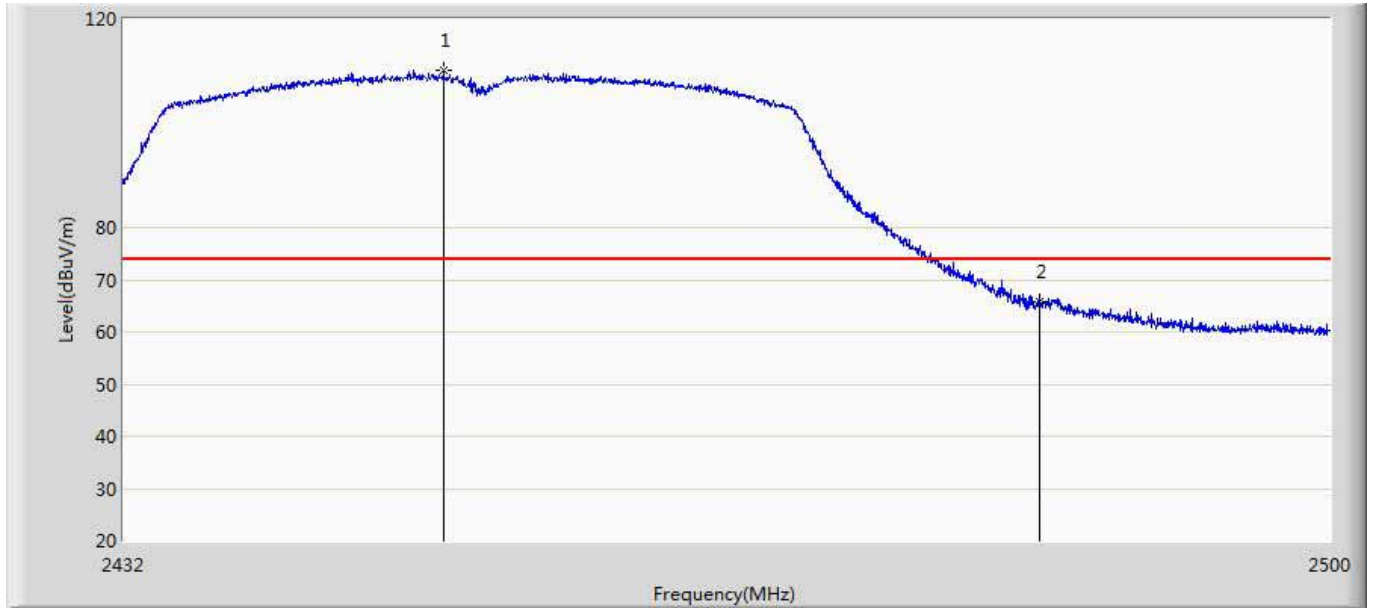
Engineer: Simon	
Site: AC5	Time: 2016/11/03 - 10:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: TL-WA801ND	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2437MHz by 802.11n40	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	51.741	15.655	-2.259	54.000	36.086	AV
2	*	2431.790	99.741	63.564	45.741	54.000	36.177	AV
3		2483.500	51.948	15.687	-2.052	54.000	36.261	AV

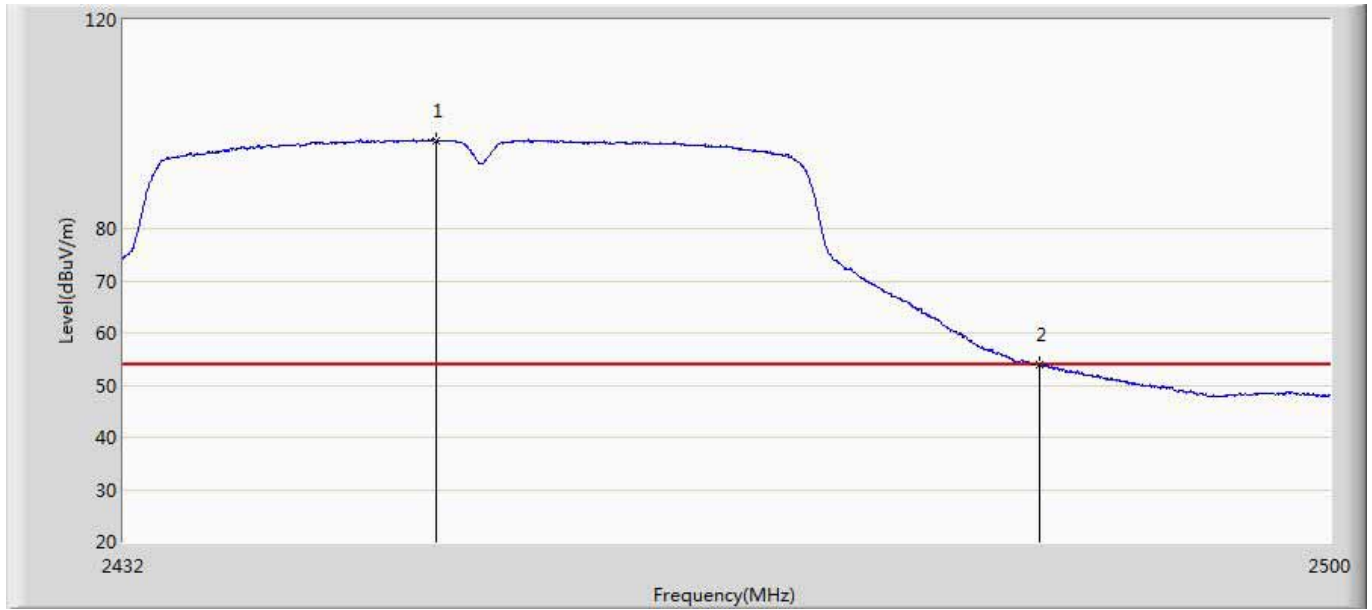


Engineer: Simon	
Site: AC5	Time: 2016/09/03 - 14:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2452MHz by 802.11n40	



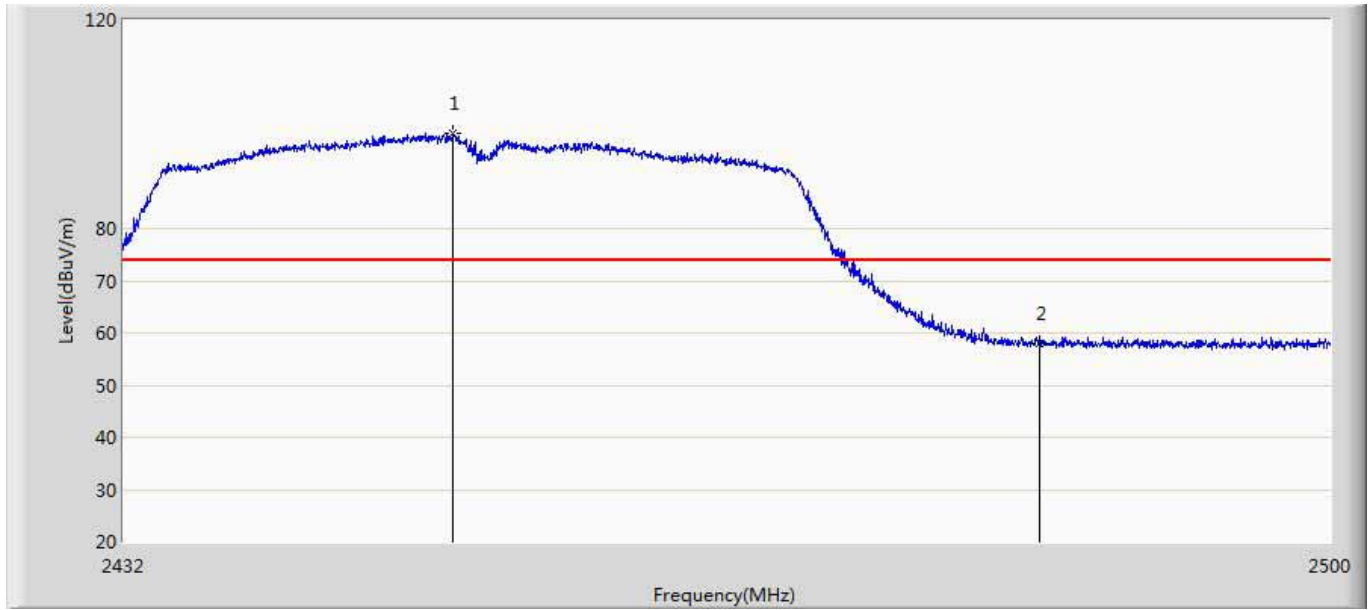
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2449.884	110.068	73.850	36.068	74.000	36.218	PK
2		2483.500	65.903	29.641	-8.097	74.000	36.261	PK

Engineer: Simon	
Site: AC5	Time: 2016/09/03 - 14:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2452MHz by 802.11n40	



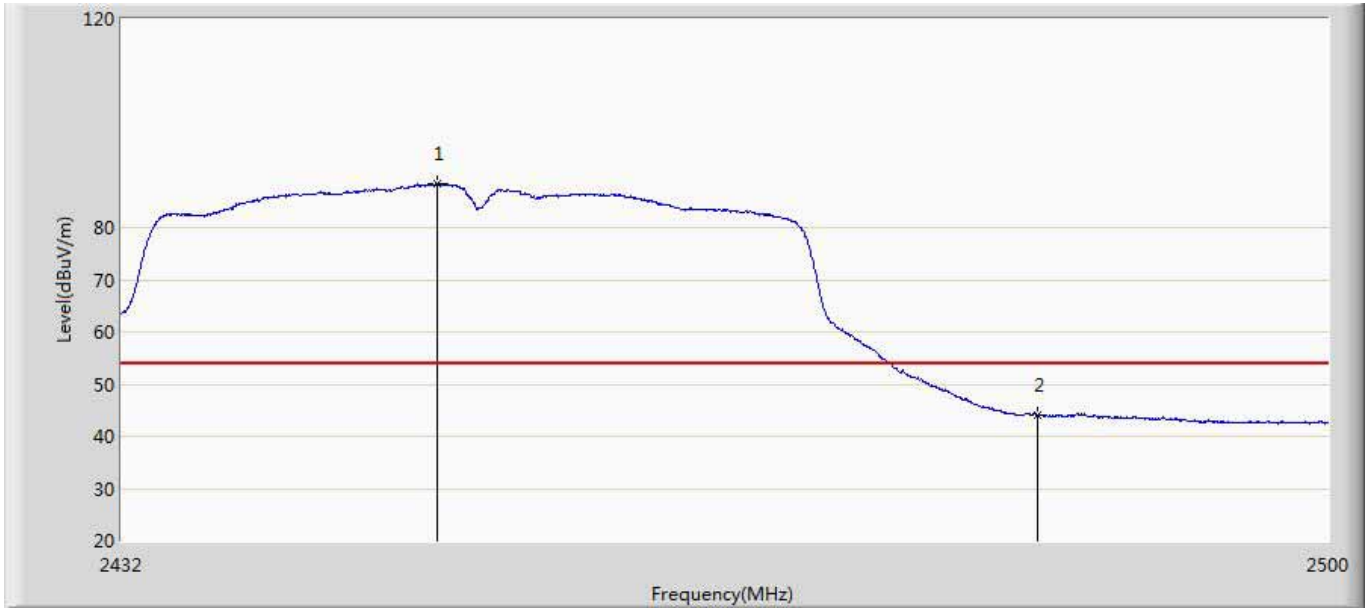
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2449.442	96.888	60.670	42.888	54.000	36.218	AV
2		2483.500	53.776	17.515	-0.224	54.000	36.261	AV

Engineer: Simon	
Site: AC5	Time: 2016/09/03 - 14:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2452MHz by 802.11n40	



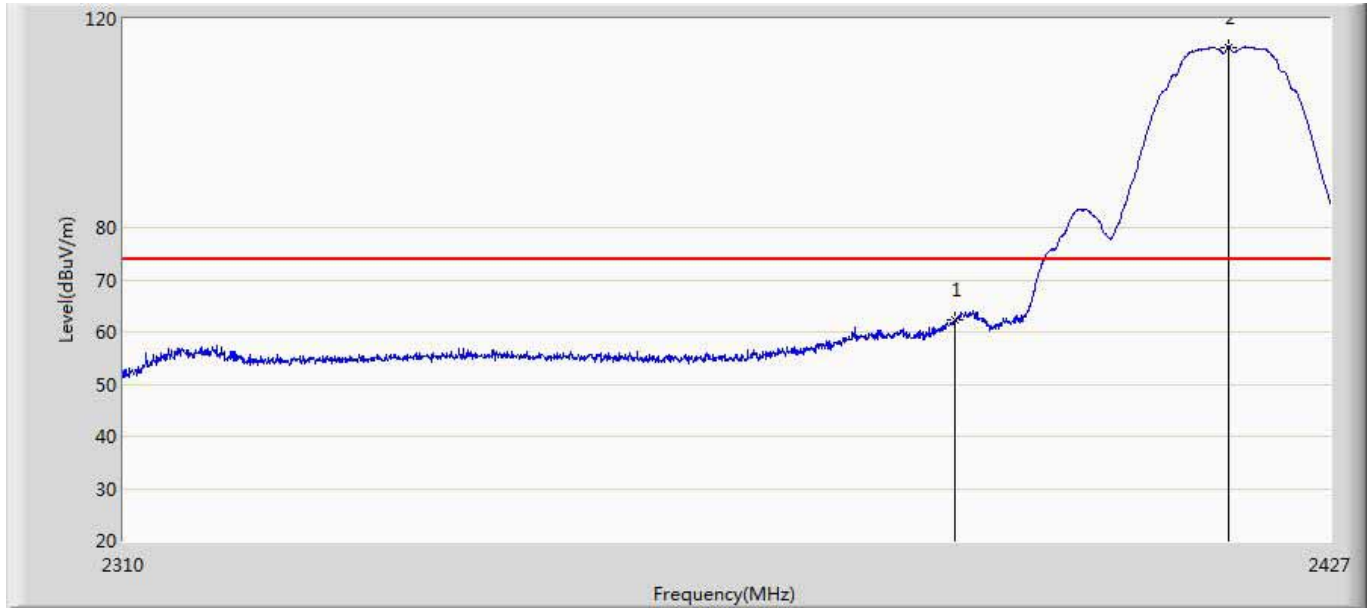
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2450.394	98.217	62.000	24.217	74.000	36.217	PK
2		2483.500	58.091	21.830	-15.909	74.000	36.261	PK

Engineer: Simon	
Site: AC5	Time: 2016/09/03 - 14:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2452MHz by 802.11n40	



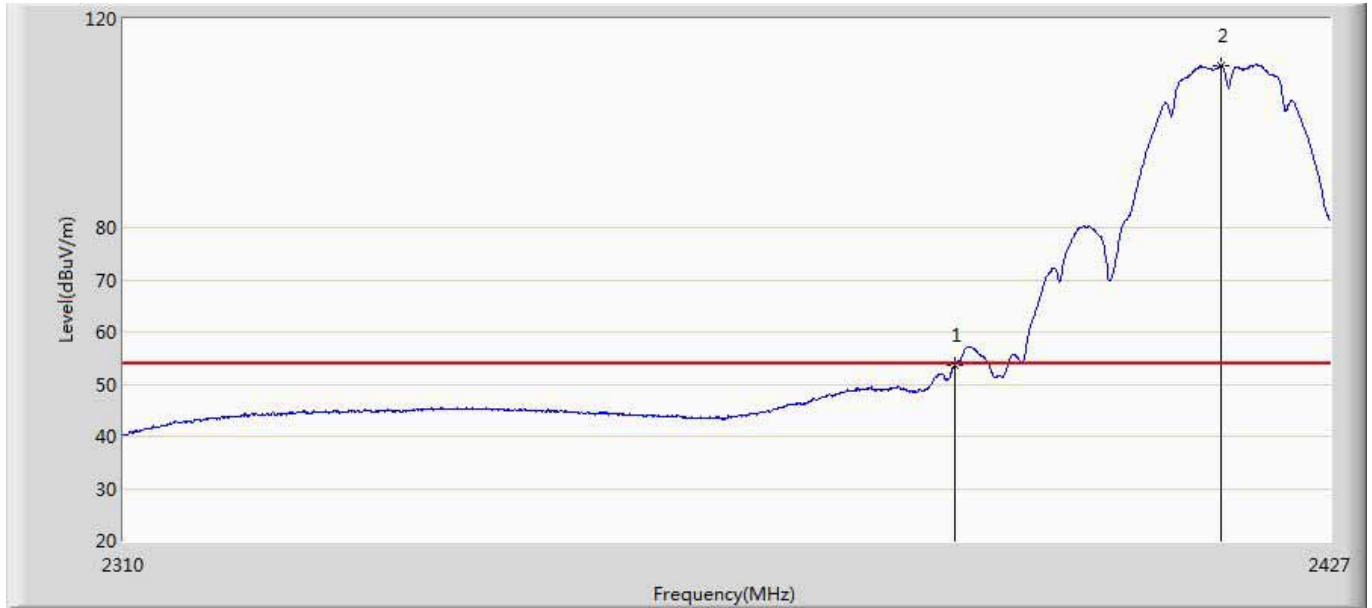
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2449.646	88.314	52.096	34.314	54.000	36.217	AV
2		2483.500	44.134	7.873	-9.866	54.000	36.261	AV

Engineer: Simon	
Site: AC5	Time: 2016/10/12 - 19:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2417MHz by 802.11b	



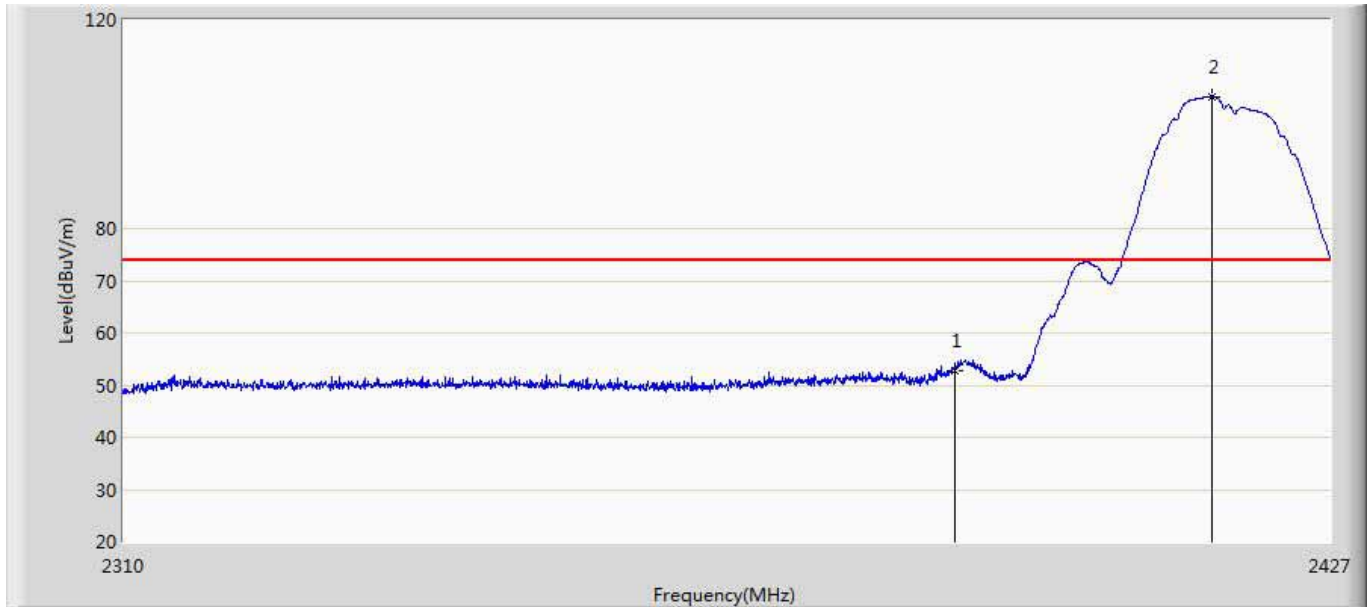
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	62.297	26.211	-11.703	74.000	36.086	PK
2	*	2416.879	114.598	78.437	40.598	74.000	36.161	PK

Engineer: Simon	
Site: AC5	Time: 2016/10/12 - 19:05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 2417MHz by 802.11b	



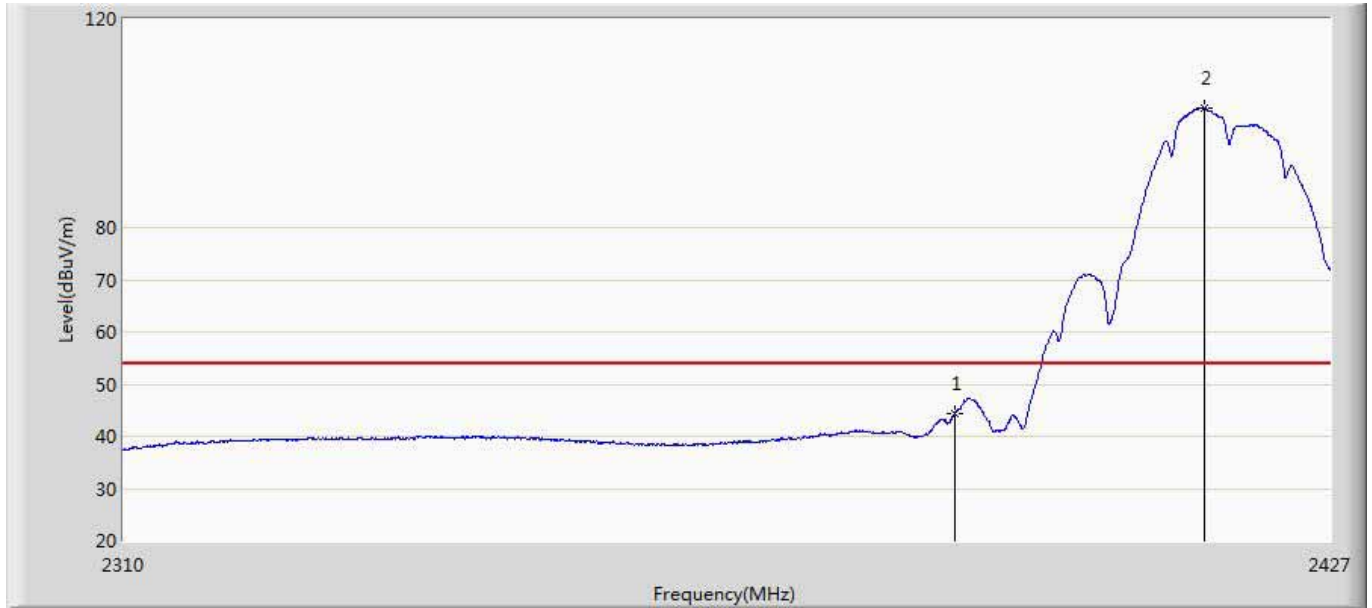
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.752	17.666	-0.248	54.000	36.086	AV
2	*	2416.236	110.911	74.750	56.911	54.000	36.160	AV

Site: AC5	Time: 2016/10/12 - 19:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2417MHz by 802.11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	52.794	16.708	-21.206	74.000	36.086	PK
2	*	2415.300	105.346	69.185	31.346	74.000	36.160	PK

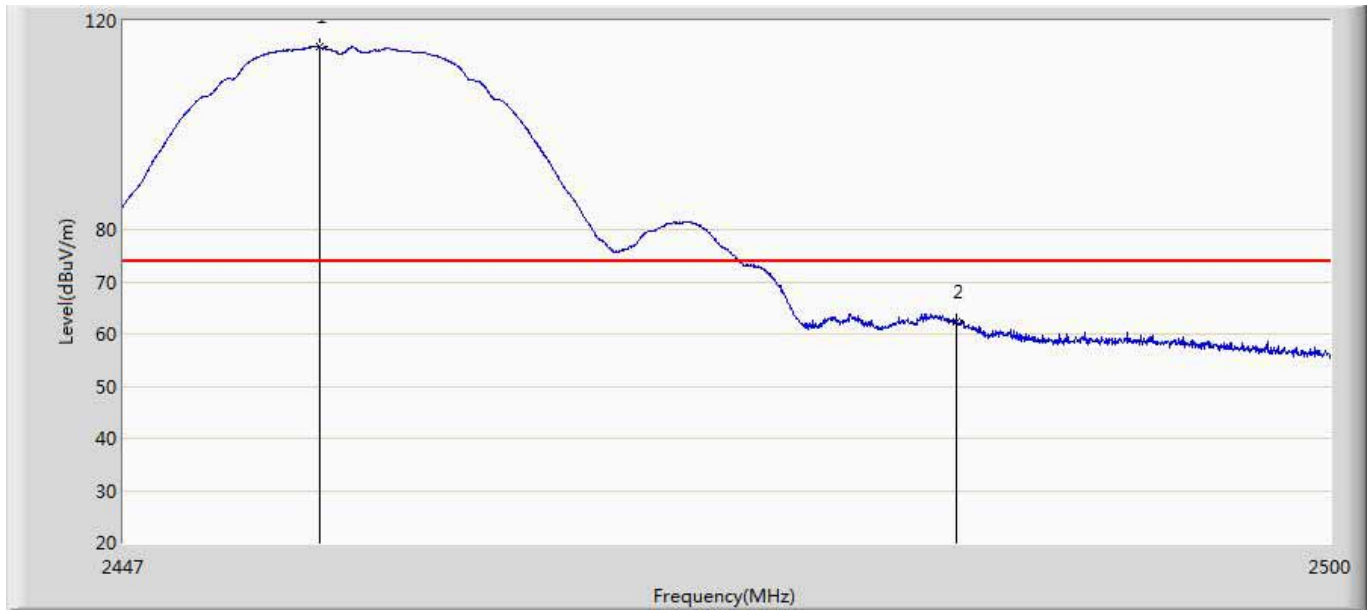
Engineer: Simon	
Site: AC5	Time: 2016/10/12 - 19:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2417MHz by 802.11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	44.256	8.170	-9.744	54.000	36.086	AV
2	*	2414.598	102.825	66.665	48.825	54.000	36.160	AV

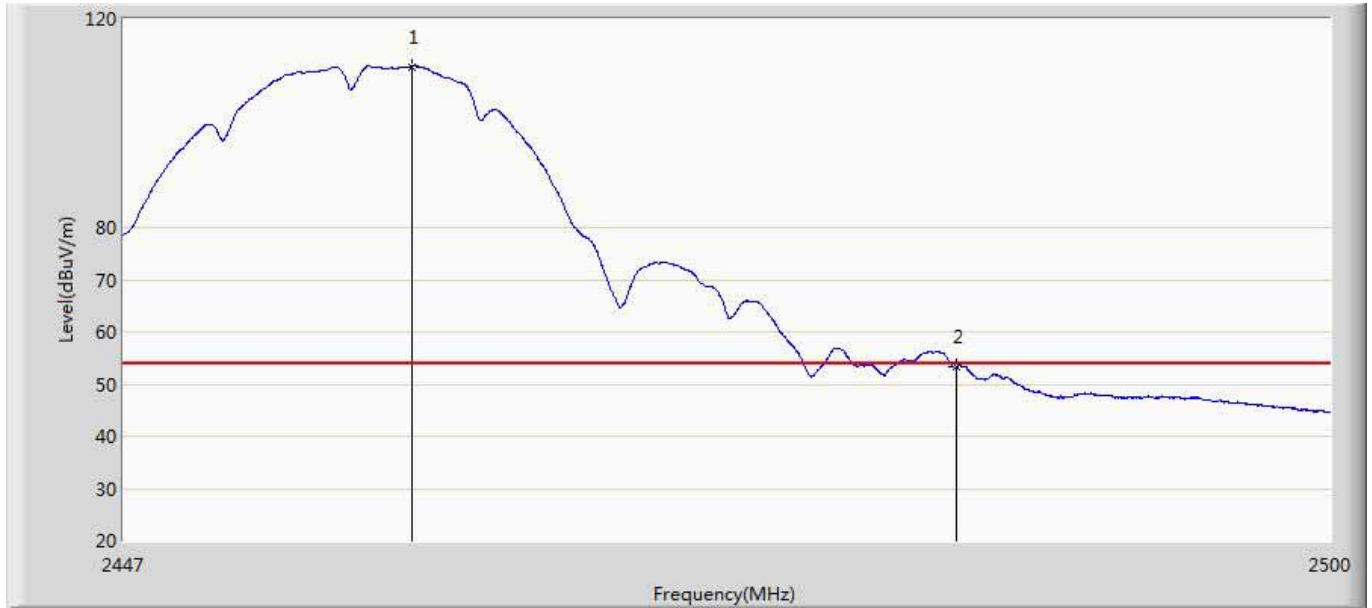


Engineer: Simon	
Site: AC5	Time: 2016/10/12 - 19:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2457MHz by 802.11b	



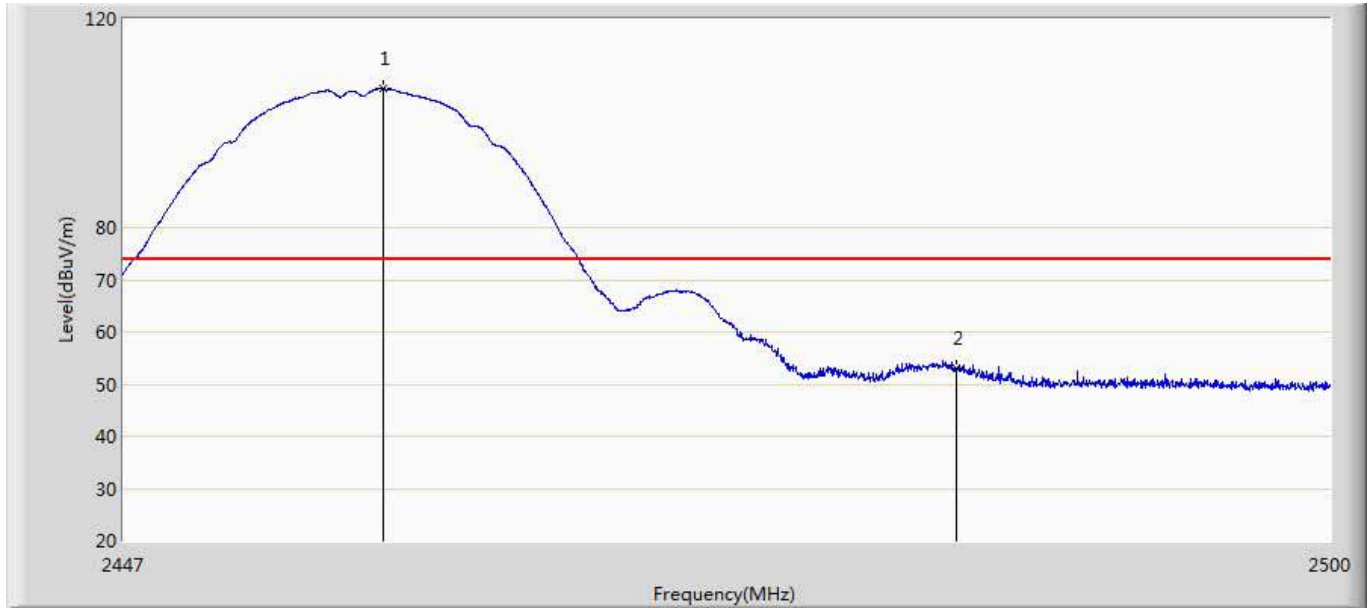
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2455.533	114.987	78.772	40.987	74.000	36.215	PK
2		2483.500	62.326	26.065	-11.674	74.000	36.261	PK

Engineer: Simon	
Site: AC5	Time: 2016/10/12 - 19:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 2457MHz by 802.11b	



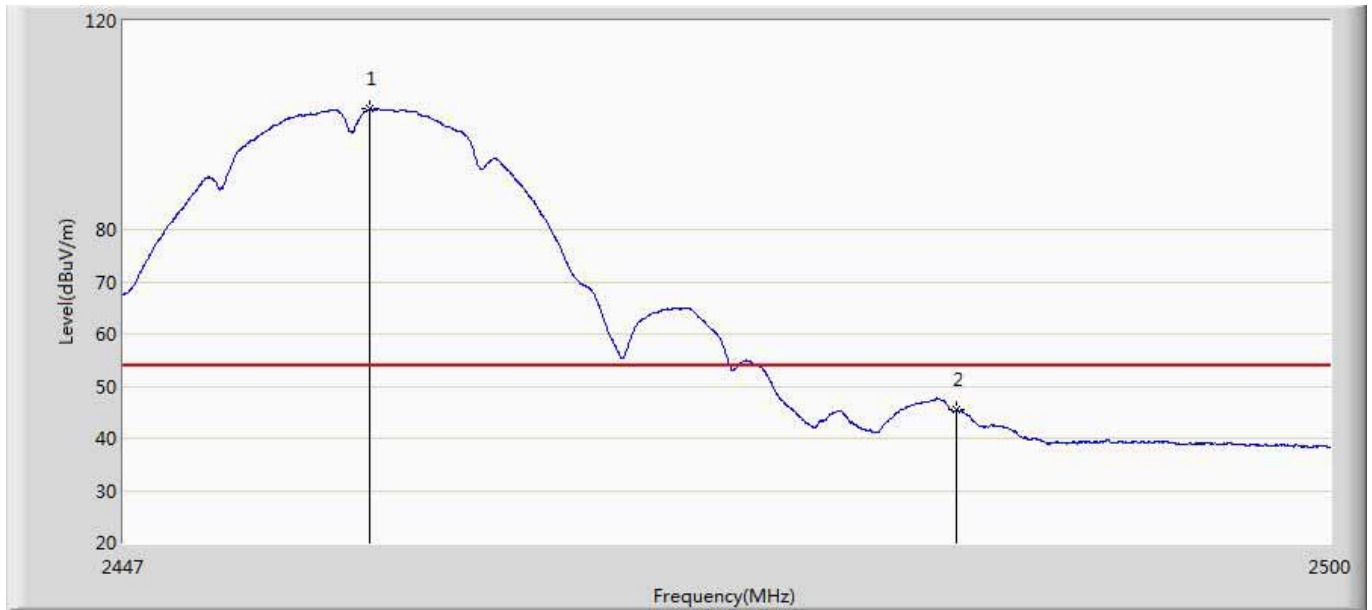
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2459.561	110.864	74.651	56.864	54.000	36.213	AV
2		2483.500	53.252	16.991	-0.748	54.000	36.261	AV

Engineer: Simon	
Site: AC5	Time: 2016/10/12 - 19:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2457MHz by 802.11b	



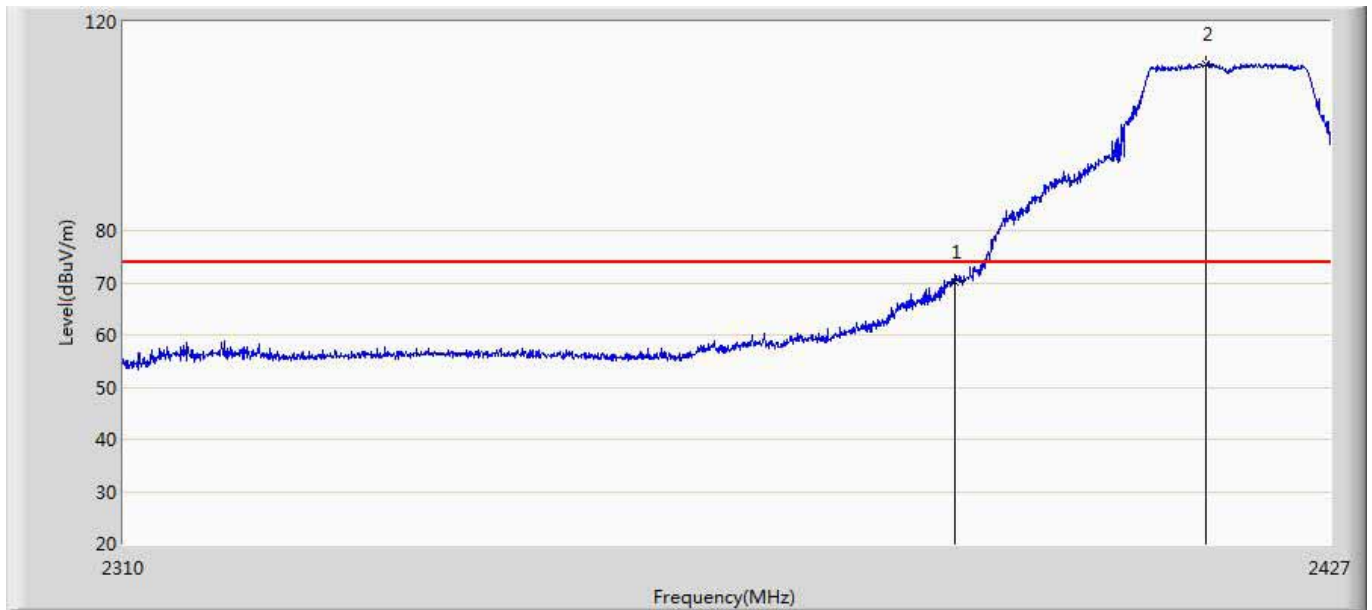
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2458.315	106.548	70.334	32.548	74.000	36.214	PK
2		2483.500	53.060	16.799	-20.940	74.000	36.261	PK

Engineer: Simon	
Site: AC5	Time: 2016/10/12 - 19:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2457MHz by 802.11b	



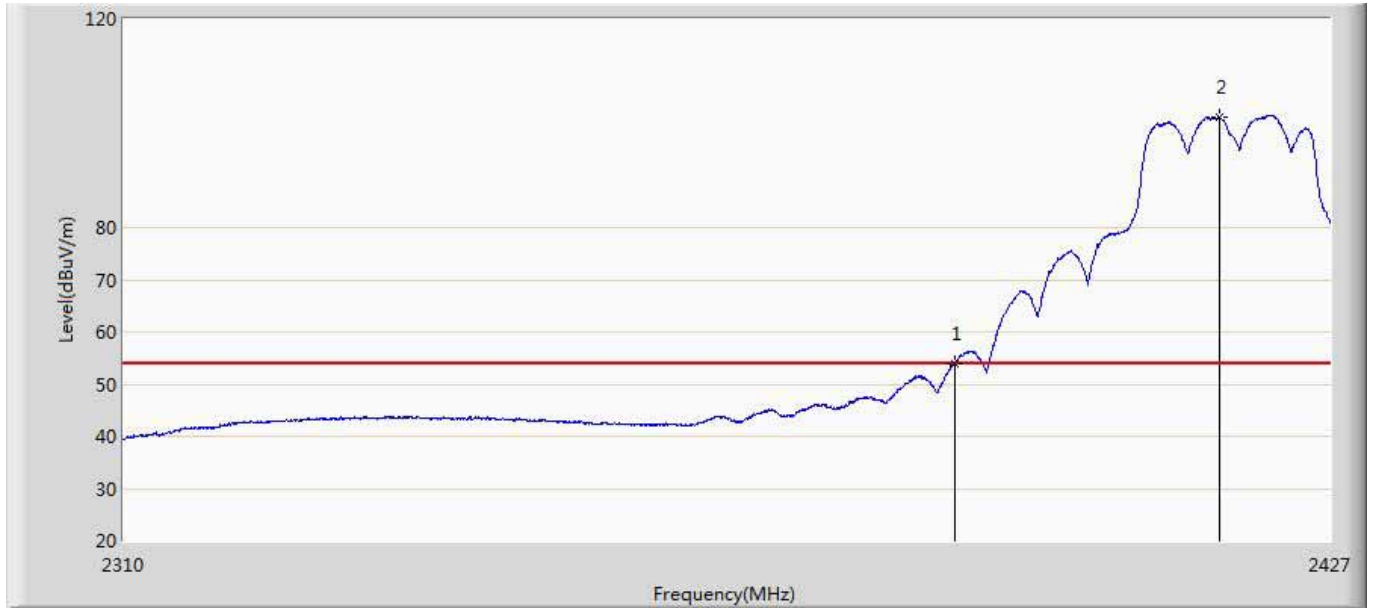
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2457.759	103.079	66.865	49.079	54.000	36.214	AV
2		2483.500	45.522	9.261	-8.478	54.000	36.261	AV

Engineer: Simon	
Site: AC5	Time: 2016/10/13 - 09:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2417MHz by 802.11g	



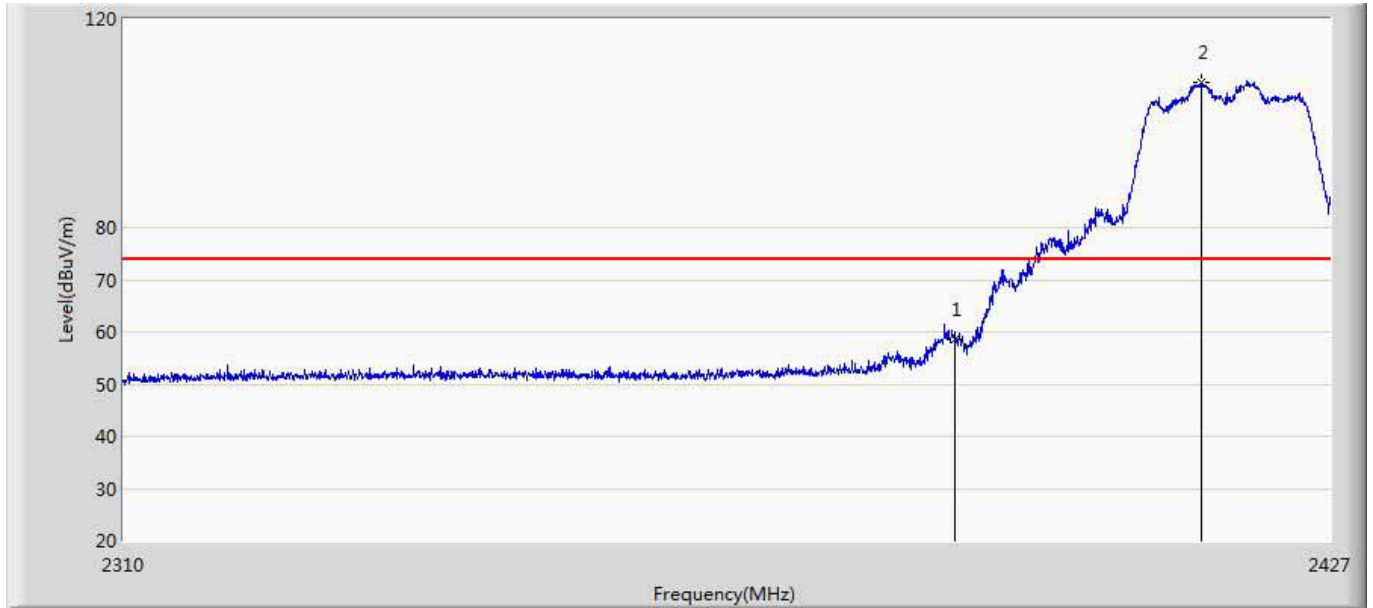
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	70.274	34.188	-3.726	74.000	36.086	PK
2	*	2414.773	111.818	75.658	37.818	74.000	36.161	PK

Engineer: Simon	
Site: AC5	Time: 2016/10/13 - 09:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2417MHz by 802.11g	



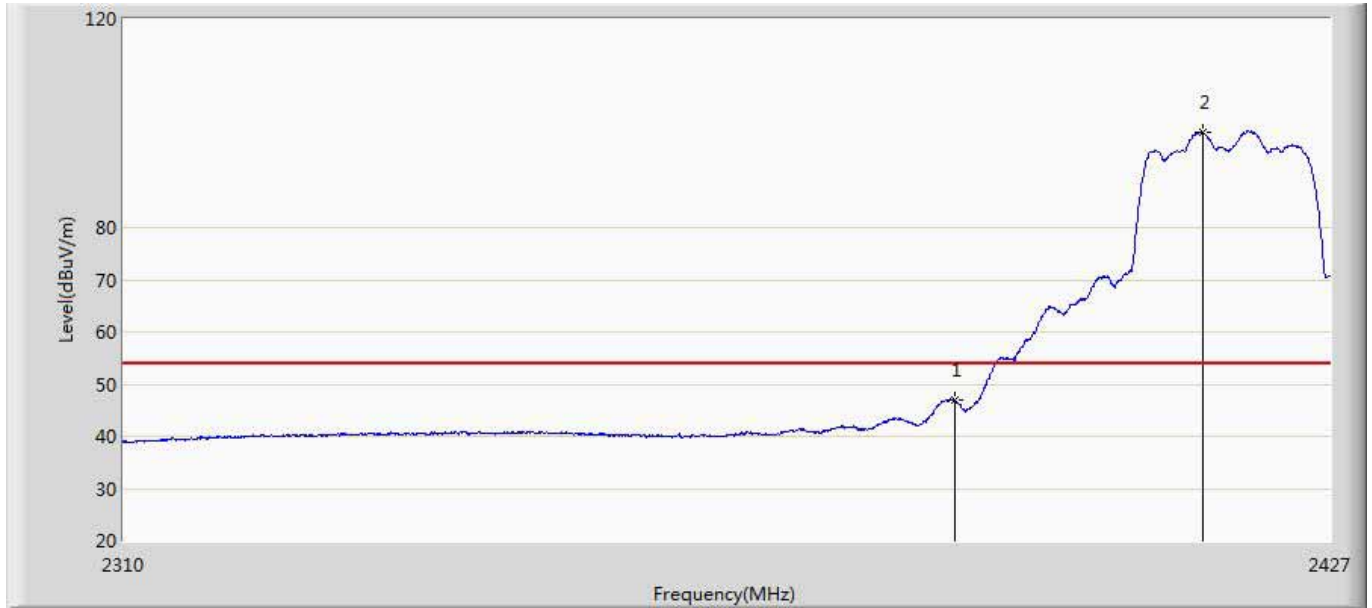
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.958	17.872	-0.042	54.000	36.086	AV
2	*	2416.119	101.222	65.061	47.222	54.000	36.160	AV

Engineer: Simon	
Site: AC5	Time: 2016/10/13 - 09:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2417MHz by 802.11g	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	58.657	22.571	-15.343	74.000	36.086	PK
2	*	2414.305	107.895	71.735	33.895	74.000	36.160	PK

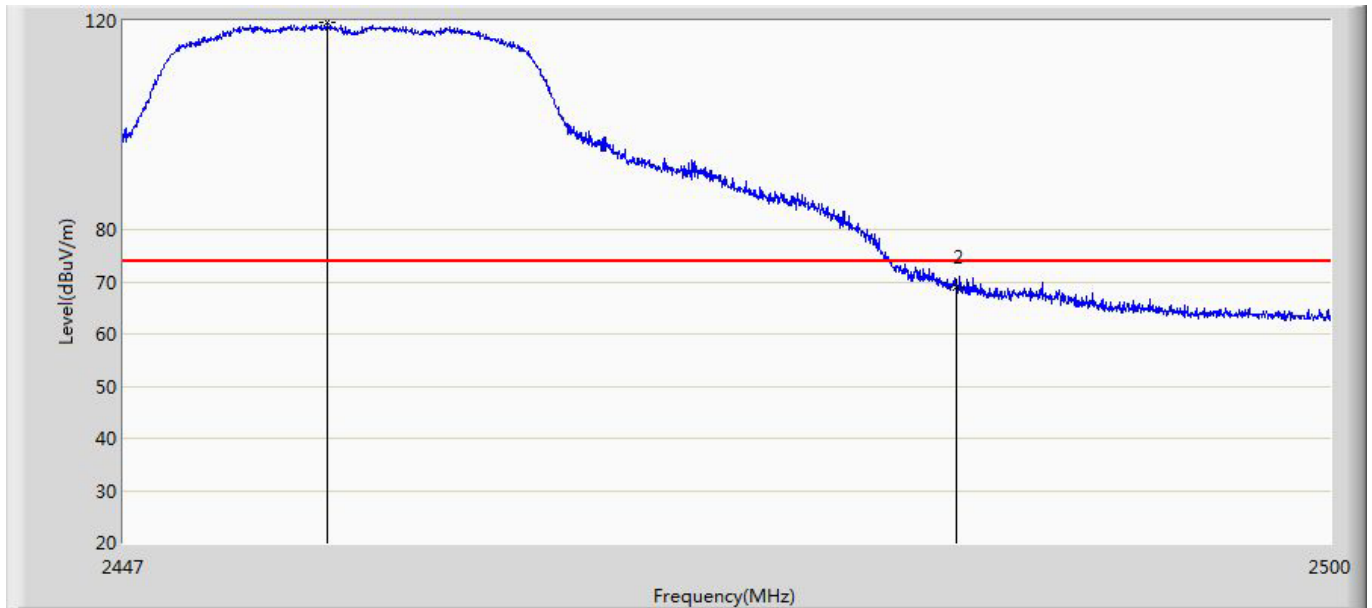
Engineer: Simon	
Site: AC5	Time: 2016/10/13 - 09:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2417MHz by 802.11g	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	46.879	10.793	-7.121	54.000	36.086	AV
2	*	2414.423	98.277	62.117	44.277	54.000	36.160	AV

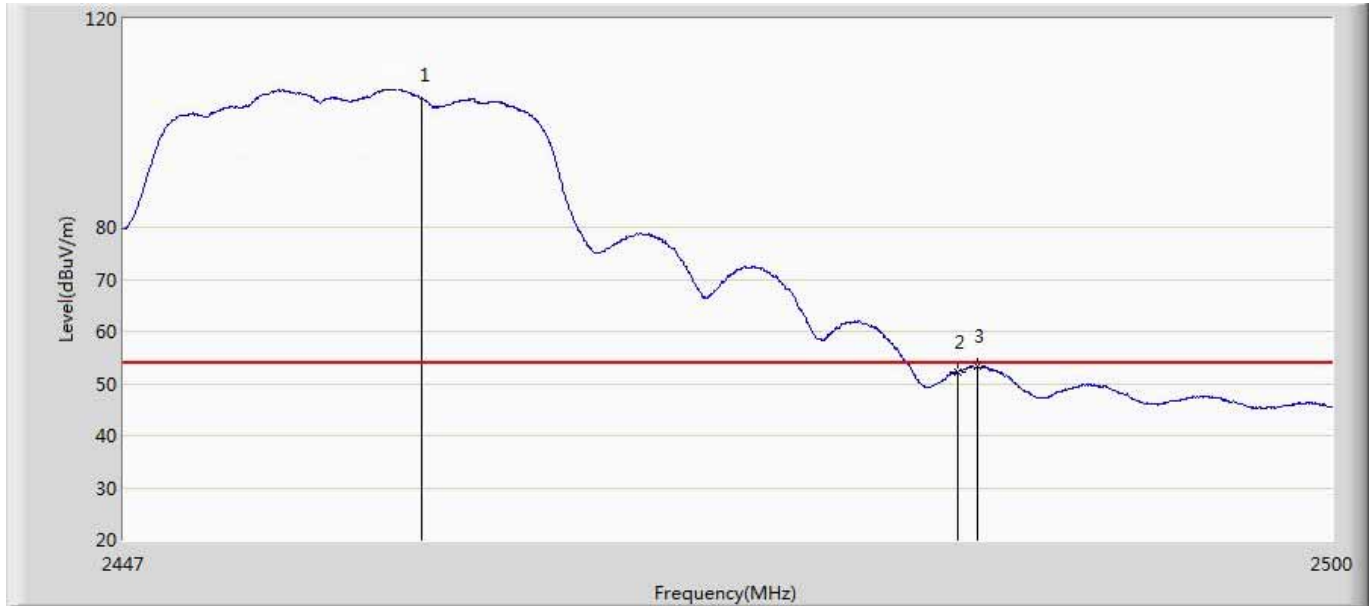


Engineer: Simon	
Site: AC5	Time: 2016/10/13 - 09:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2457MHz by 802.11g	



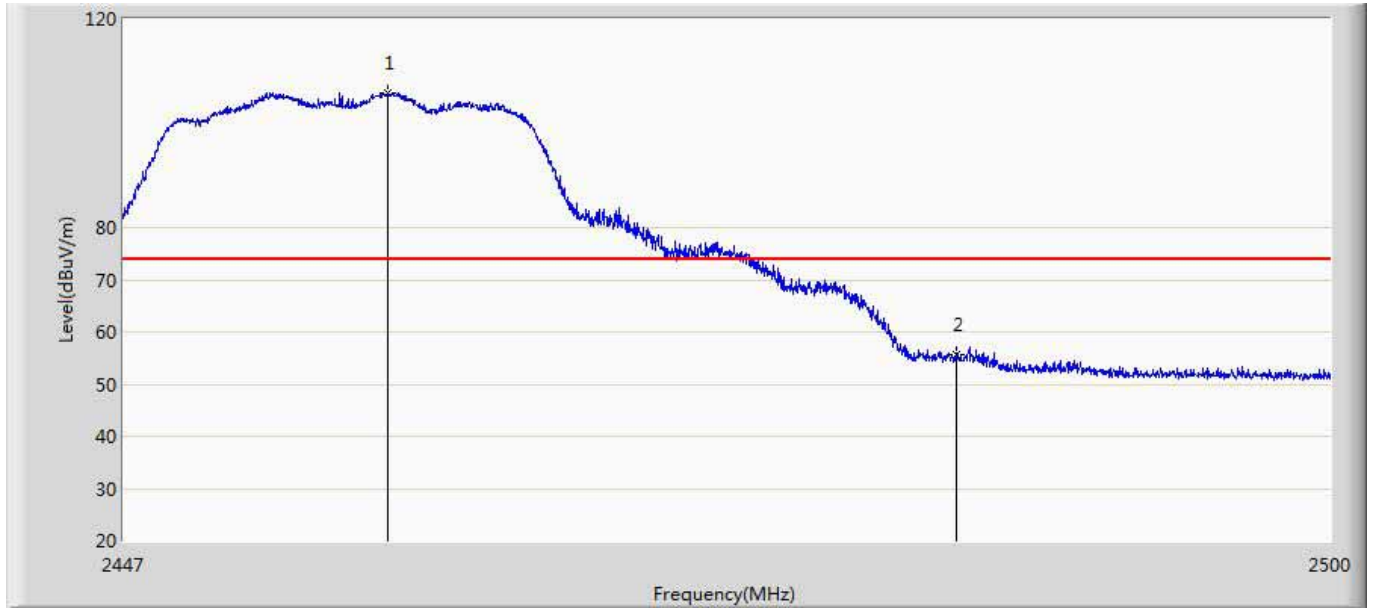
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2455.877	119.776	83.561	45.776	74.000	36.215	PK
2		2483.500	68.877	32.615	-5.123	74.000	36.261	PK

Engineer: Simon	
Site: AC5	Time: 2016/10/13 - 09:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2457MHz by 802.11g	



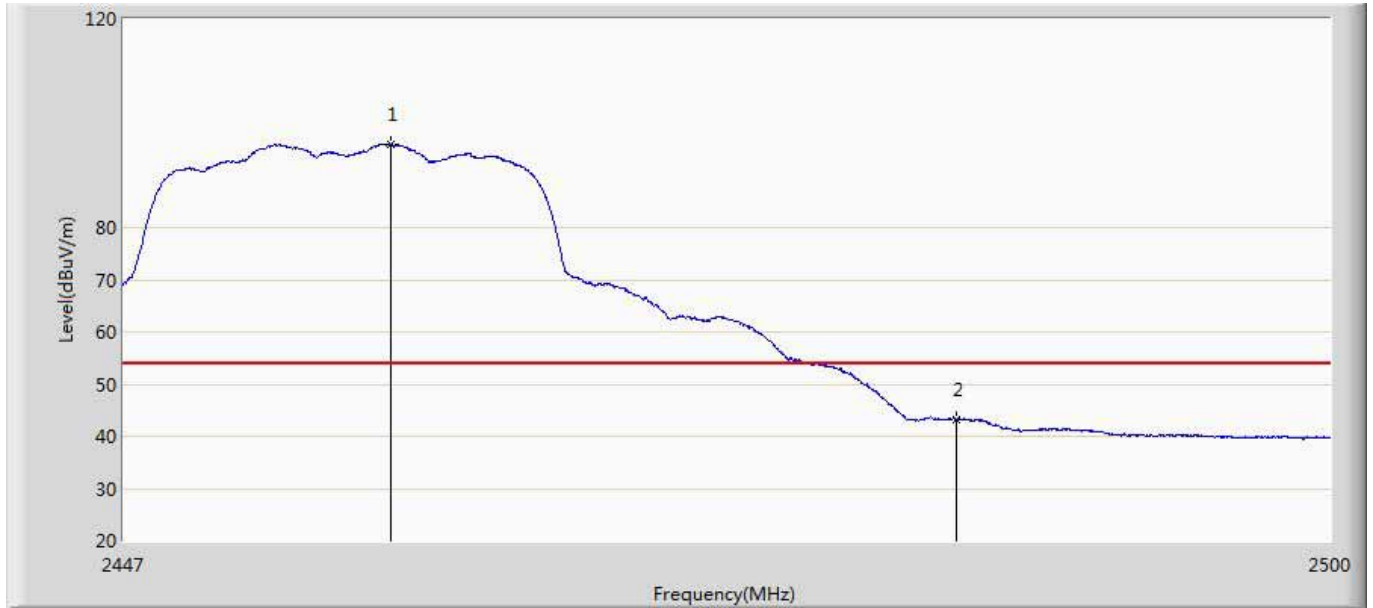
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2459.958	102.806	66.593	48.806	54.000	36.213	AV
2		2483.500	52.296	16.035	-1.704	54.000	36.261	AV
3		2484.338	53.227	16.963	-0.773	54.000	36.264	AV

Engineer: Simon	
Site: AC5	Time: 2016/10/13 - 09:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2457MHz by 802.11g	



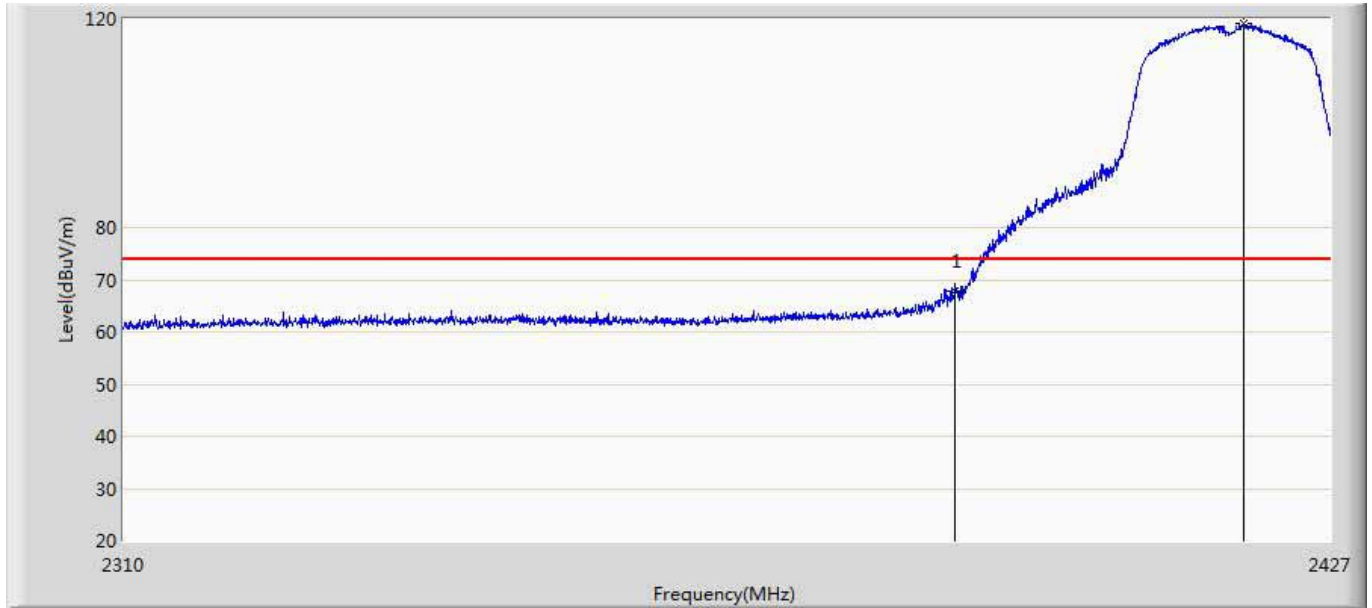
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2458.528	105.878	69.664	31.878	74.000	36.214	PK
2		2483.500	55.725	19.464	-18.275	74.000	36.261	PK

Engineer: Simon	
Site: AC5	Time: 2016/10/13 - 09:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2457MHz by 802.11g	



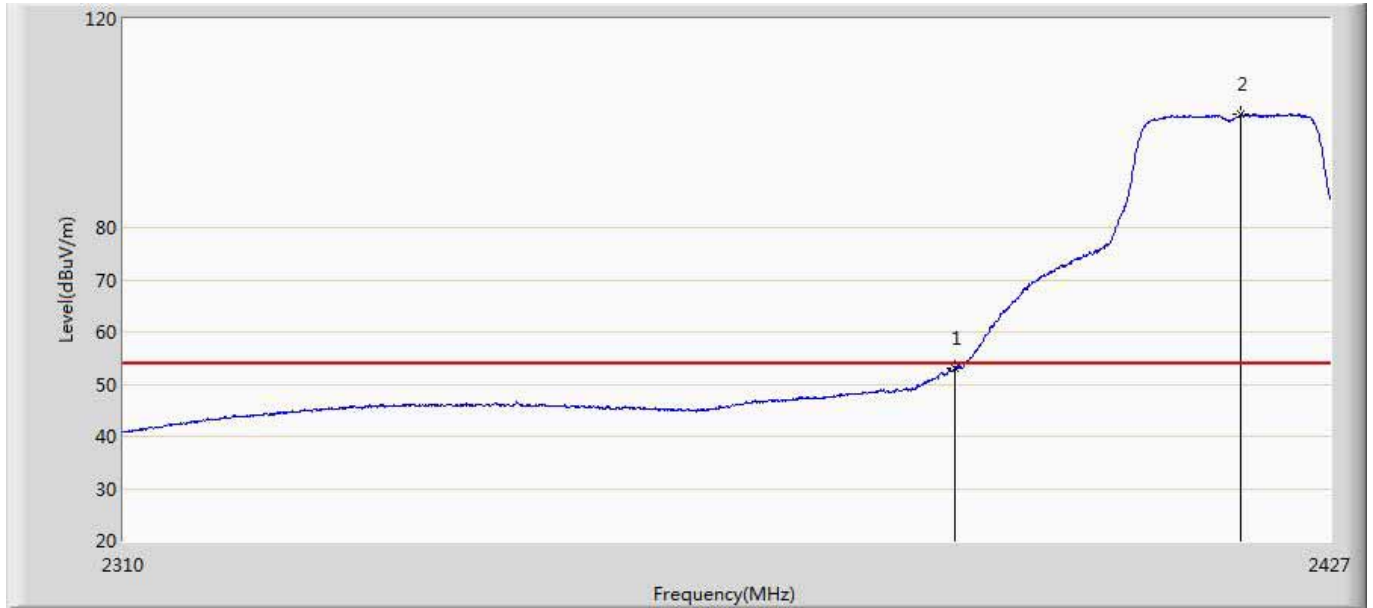
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2458.634	96.031	59.817	42.031	54.000	36.214	AV
2		2483.500	43.228	6.967	-10.772	54.000	36.261	AV

Engineer: Simon	
Site: AC5	Time: 2016/10/13 - 09:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2417MHz by 802.11n20	



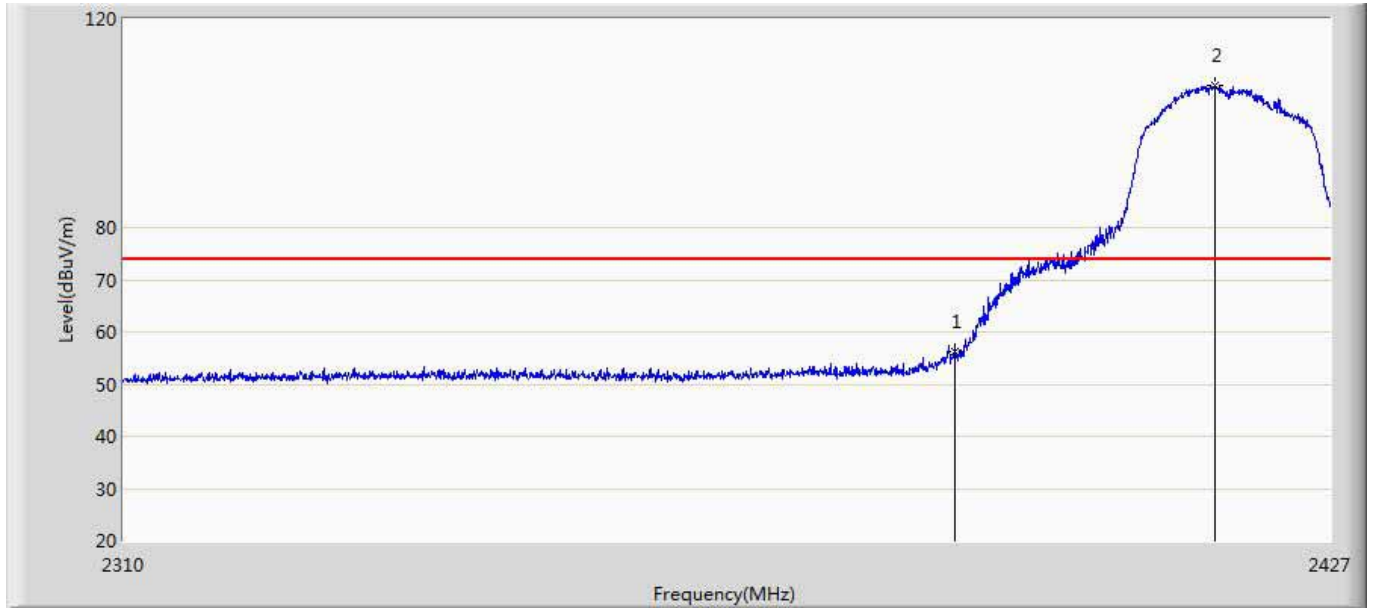
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	67.928	31.842	-6.072	74.000	36.086	PK
2	*	2418.518	119.163	83.001	45.163	74.000	36.161	PK

Engineer: Simon	
Site: AC5	Time: 2016/10/13 - 09:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2417MHz by 802.11n20	



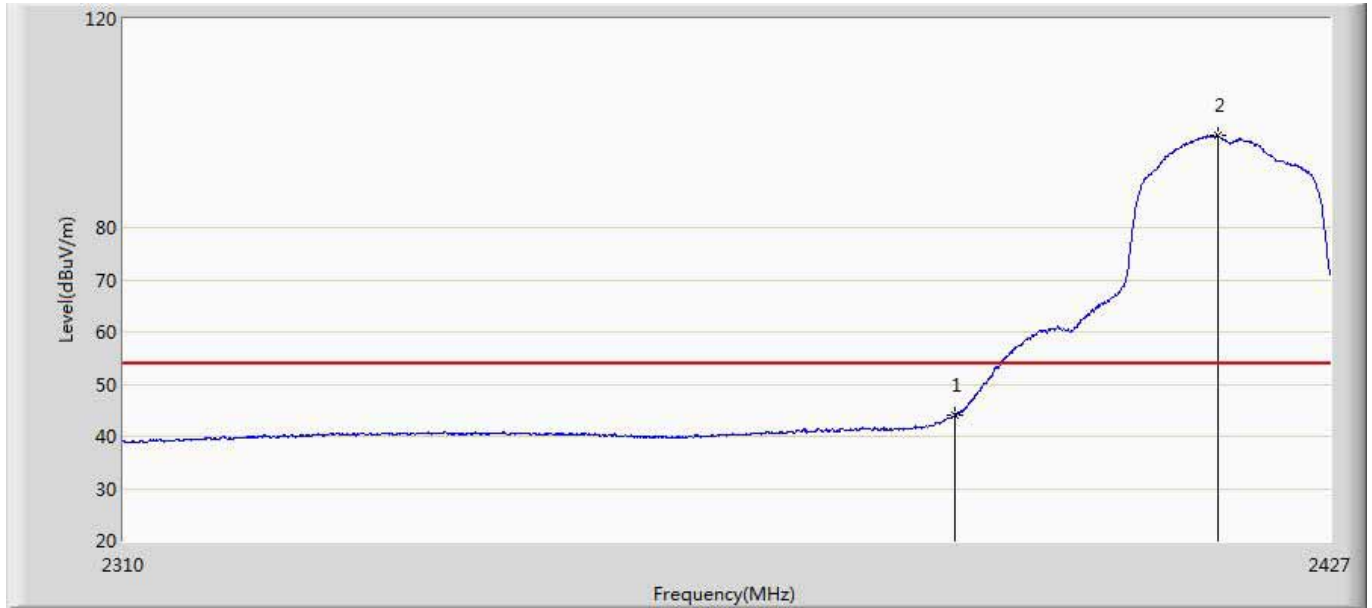
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.101	17.015	-0.899	54.000	36.086	AV
2	*	2418.225	101.629	65.467	47.629	54.000	36.162	AV

Engineer: Simon	
Site: AC5	Time: 2016/10/13 - 09:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2417MHz by 802.11n20	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	56.117	20.031	-17.883	74.000	36.086	PK
2	*	2415.534	107.161	71.000	33.161	74.000	36.161	PK

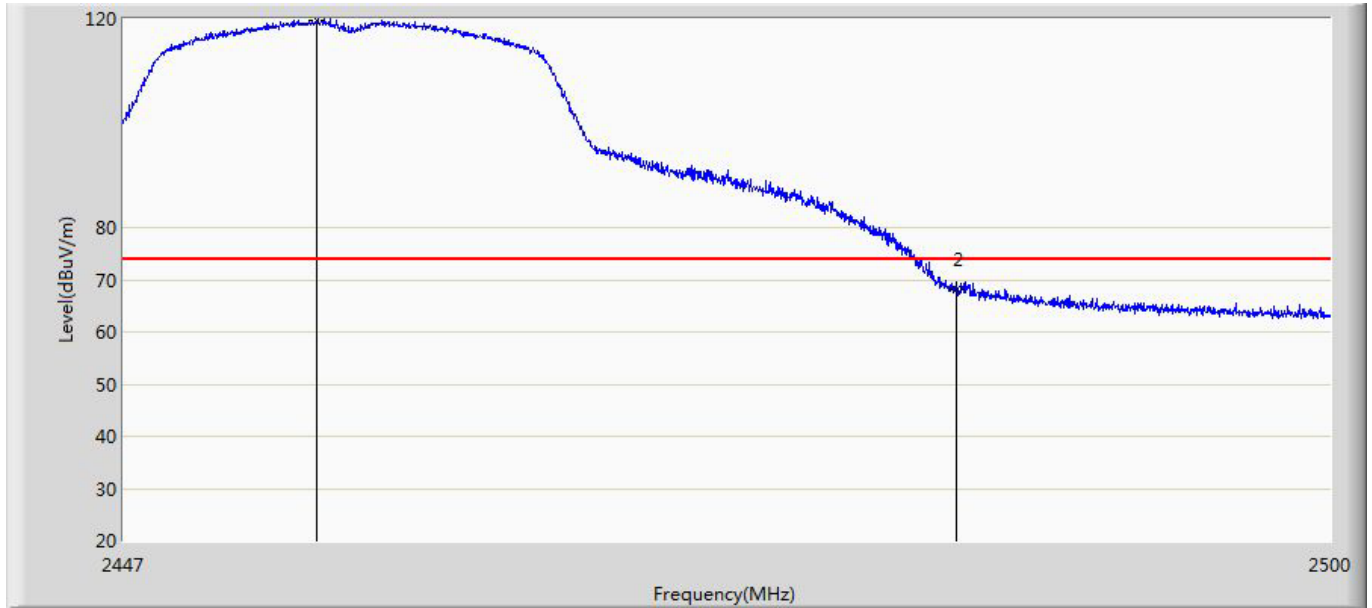
Engineer: Simon	
Site: AC5	Time: 2016/10/13 - 09:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2417MHz by 802.11n20	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	44.079	7.993	-9.921	54.000	36.086	AV
2	*	2415.885	97.591	61.430	43.591	54.000	36.161	AV

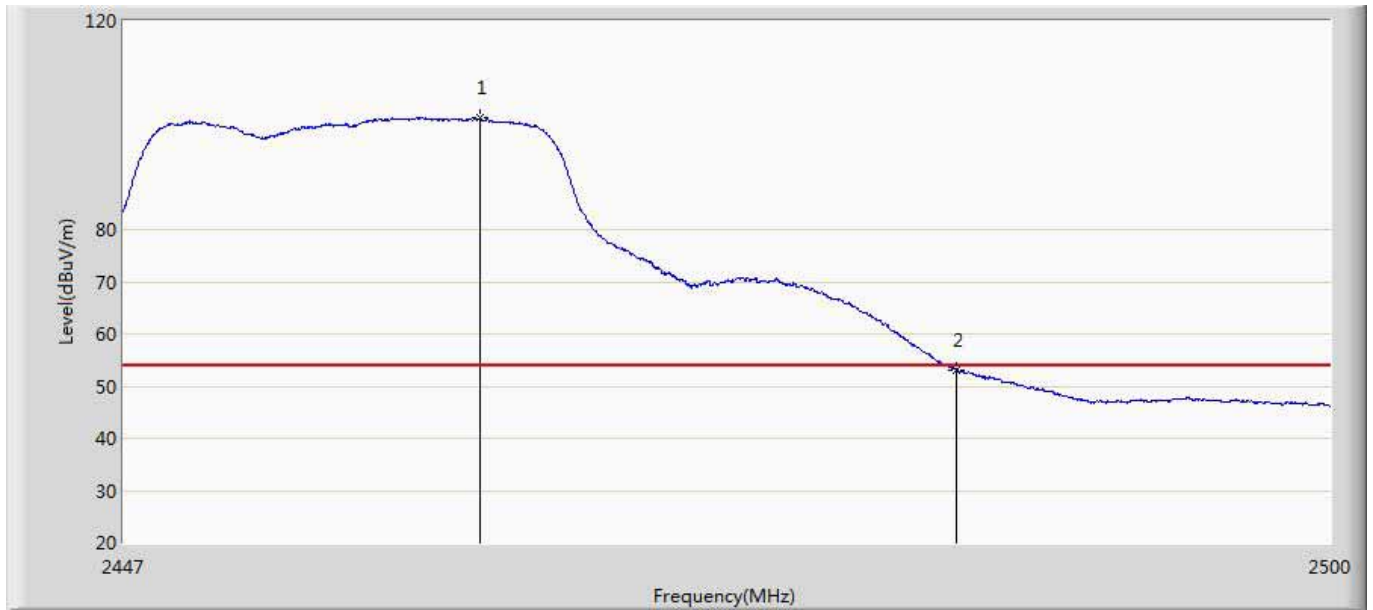


Engineer: Simon	
Site: AC5	Time: 2016/10/13 - 09:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2457MHz by 802.11n20	



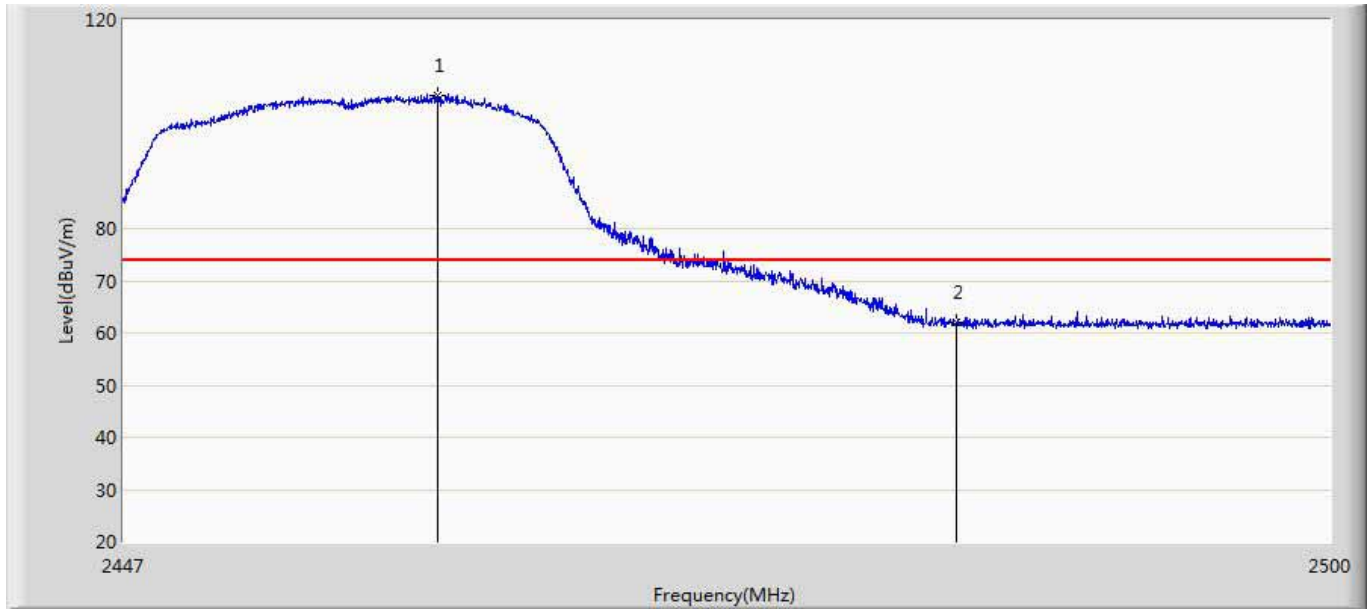
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2455.427	119.635	83.420	45.635	74.000	36.215	PK
2		2483.500	67.986	31.725	-6.014	74.000	36.261	PK

Engineer: Simon	
Site: AC5	Time: 2016/10/13 - 09:53
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2457MHz by 802.11n20	



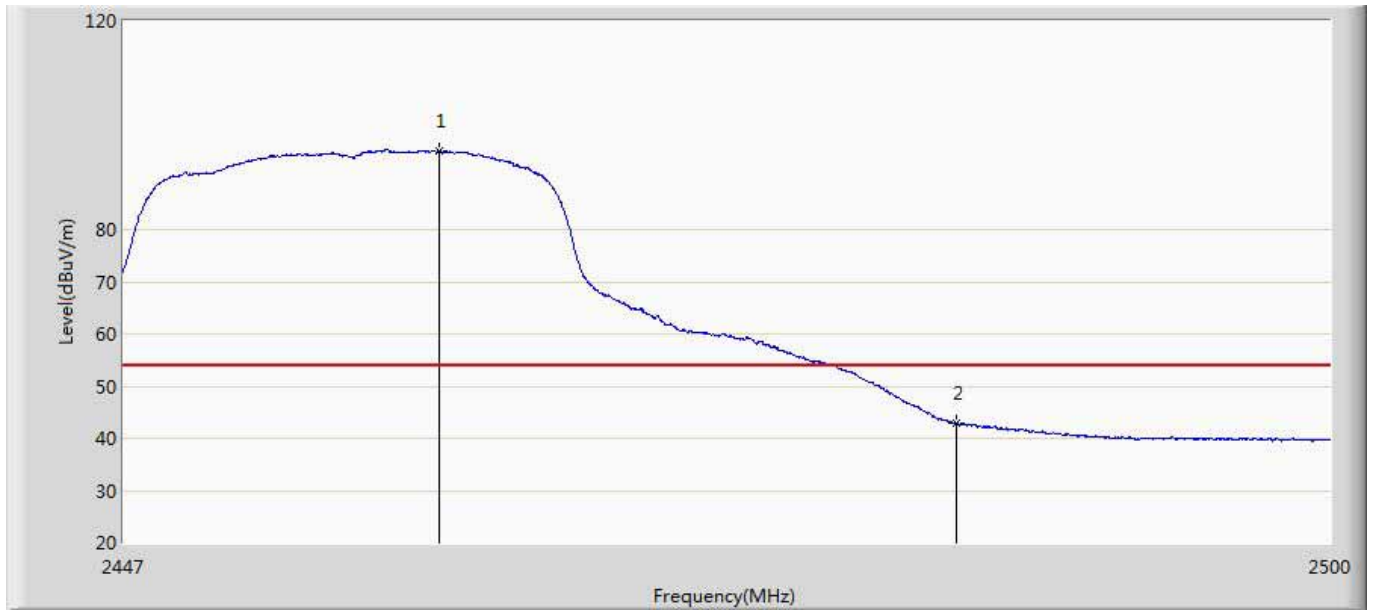
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2462.529	101.359	65.146	47.359	54.000	36.213	AV
2		2483.500	53.147	16.886	-0.853	54.000	36.261	AV

Engineer: Simon	
Site: AC5	Time: 2016/10/13 - 10:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2457MHz by 802.11n20	



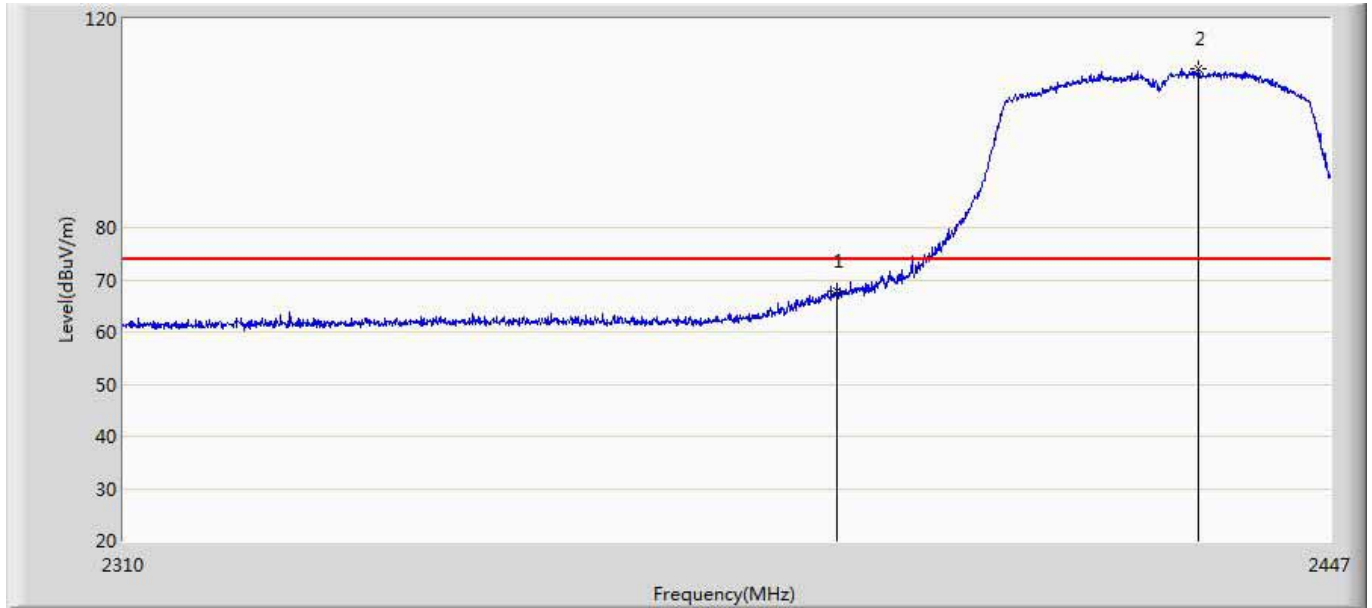
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2460.700	105.599	69.386	31.599	74.000	36.212	PK
2		2483.500	61.959	25.697	-12.041	74.000	36.261	PK

Engineer: Simon	
Site: AC5	Time: 2016/10/13 - 10:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2457MHz by 802.11n20	



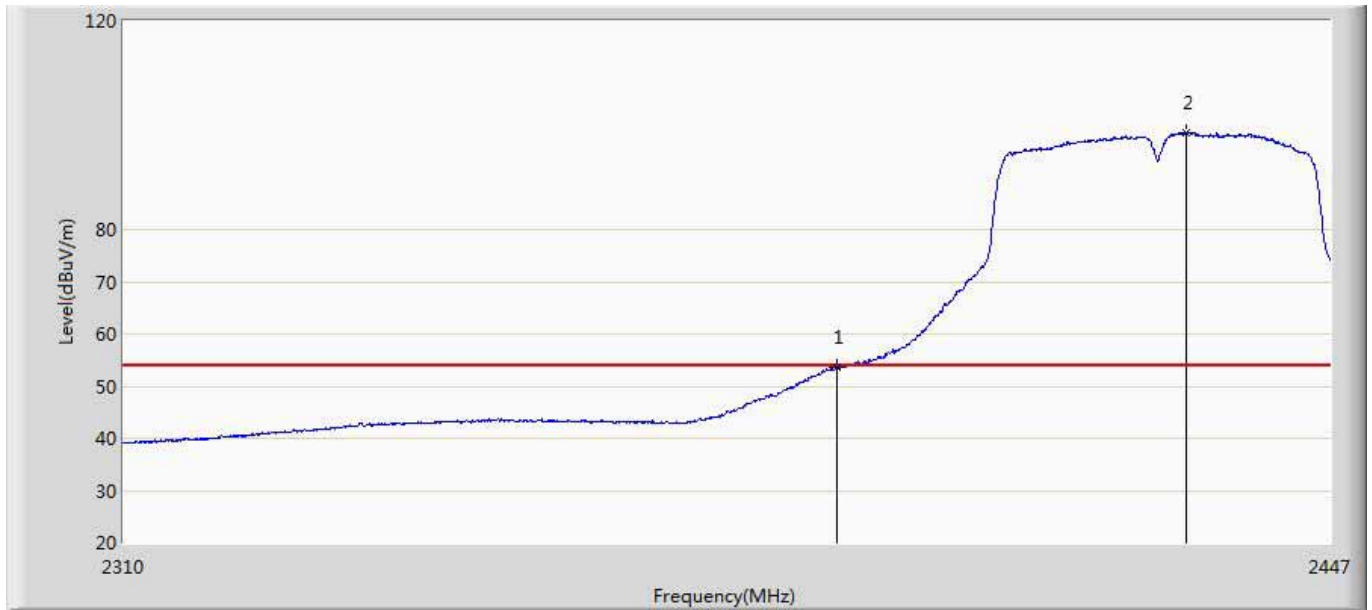
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2460.780	95.032	58.819	41.032	54.000	36.213	AV
2		2483.500	42.942	6.681	-11.058	54.000	36.261	AV

Engineer: Simon	
Site: AC5	Time: 2016/10/13 - 10:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2427MHz by 802.11n40	



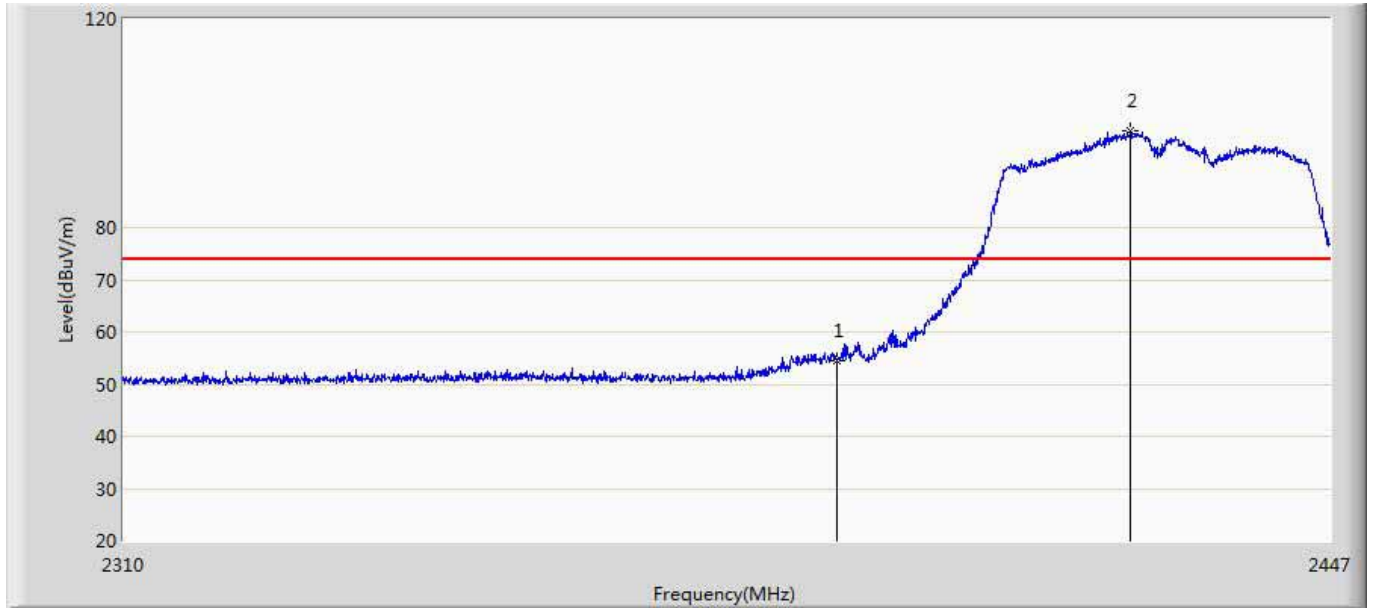
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	67.719	31.633	-6.281	74.000	36.086	PK
2	*	2431.656	110.331	74.154	36.331	74.000	36.177	PK

Engineer: Simon	
Site: AC5	Time: 2016/10/13 - 10:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2427MHz by 802.11n40	



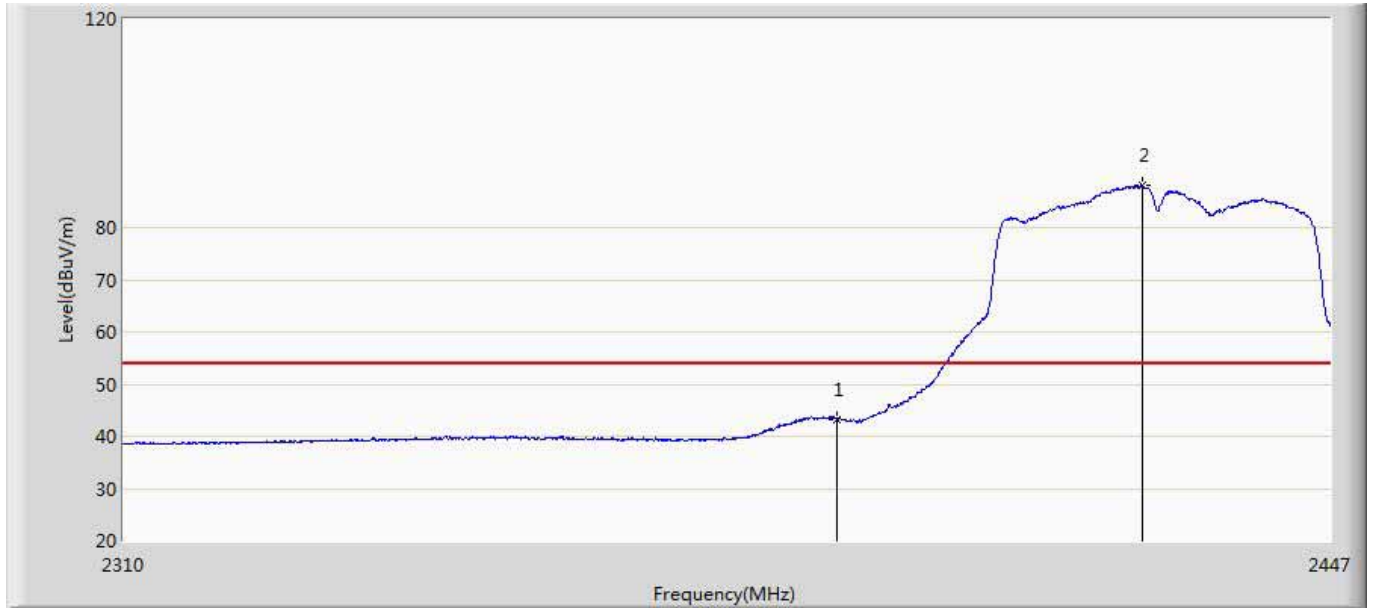
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.526	17.440	-0.474	54.000	36.086	AV
2	*	2430.286	98.475	62.303	44.475	54.000	36.173	AV

Engineer: Simon	
Site: AC5	Time: 2016/10/13 - 10:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2427MHz by 802.11n40	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	54.360	18.274	-19.640	74.000	36.086	PK
2	*	2423.847	98.416	62.252	24.416	74.000	36.164	PK

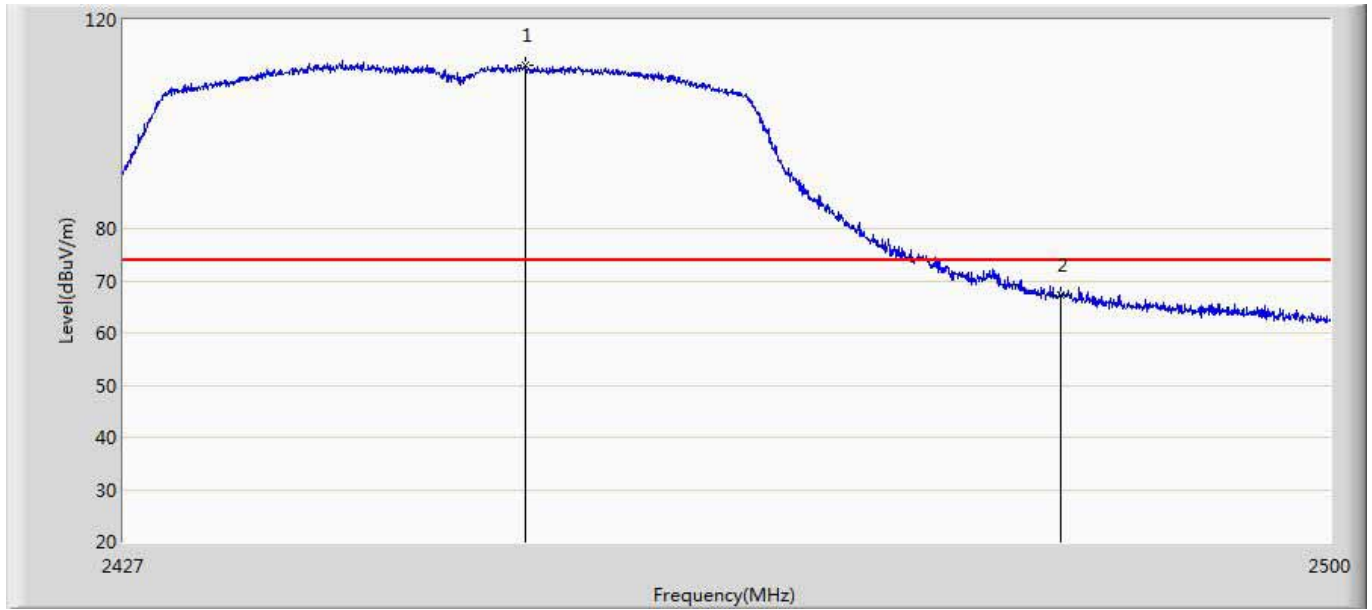
Engineer: Simon	
Site: AC5	Time: 2016/10/13 - 10:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2427MHz by 802.11n40	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	43.300	7.214	-10.700	54.000	36.086	AV
2	*	2425.148	88.065	51.901	34.065	54.000	36.164	AV

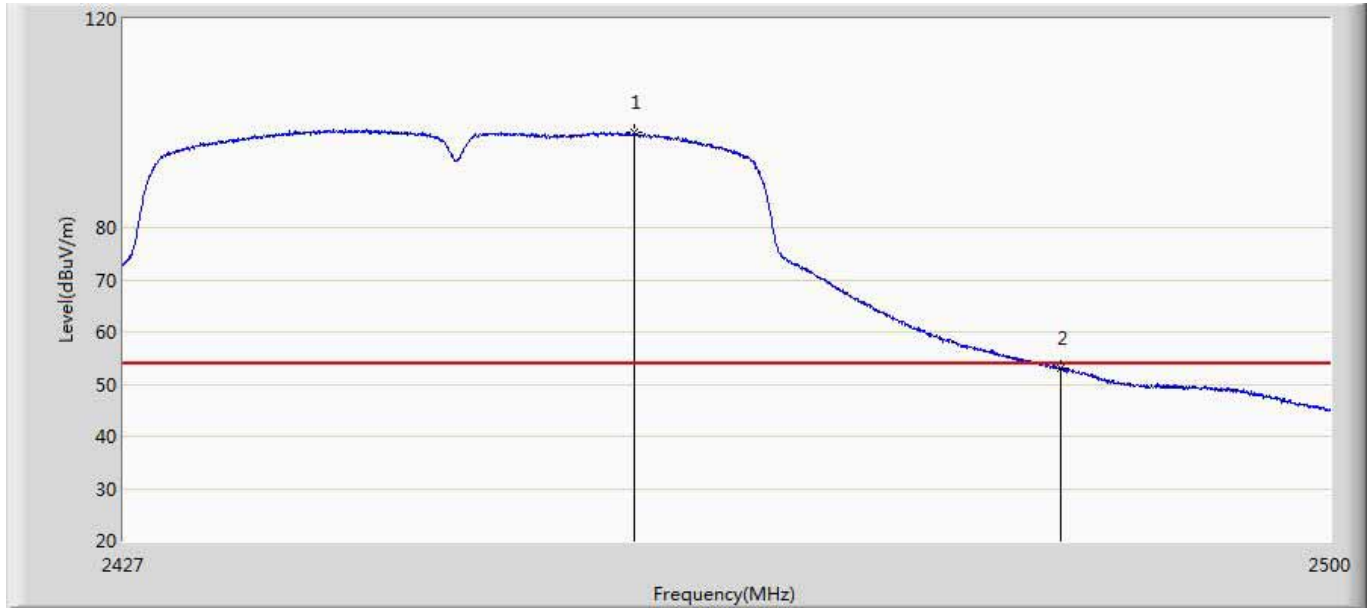


Engineer: Simon	
Site: AC5	Time: 2016/10/13 - 10:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2447MHz by 802.11n40	



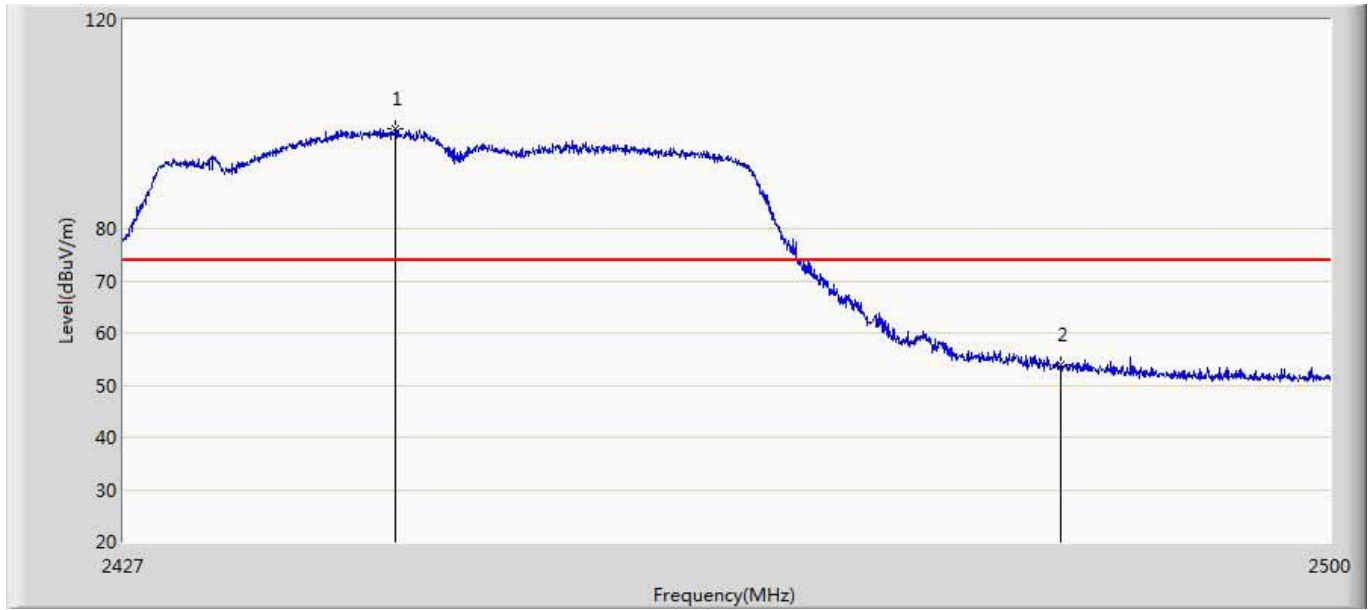
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2451.126	111.195	74.978	37.195	74.000	36.217	PK
2		2483.500	67.192	30.930	-6.808	74.000	36.261	PK

Engineer: Simon	
Site: AC5	Time: 2016/10/13 - 10:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2447MHz by 802.11n40	



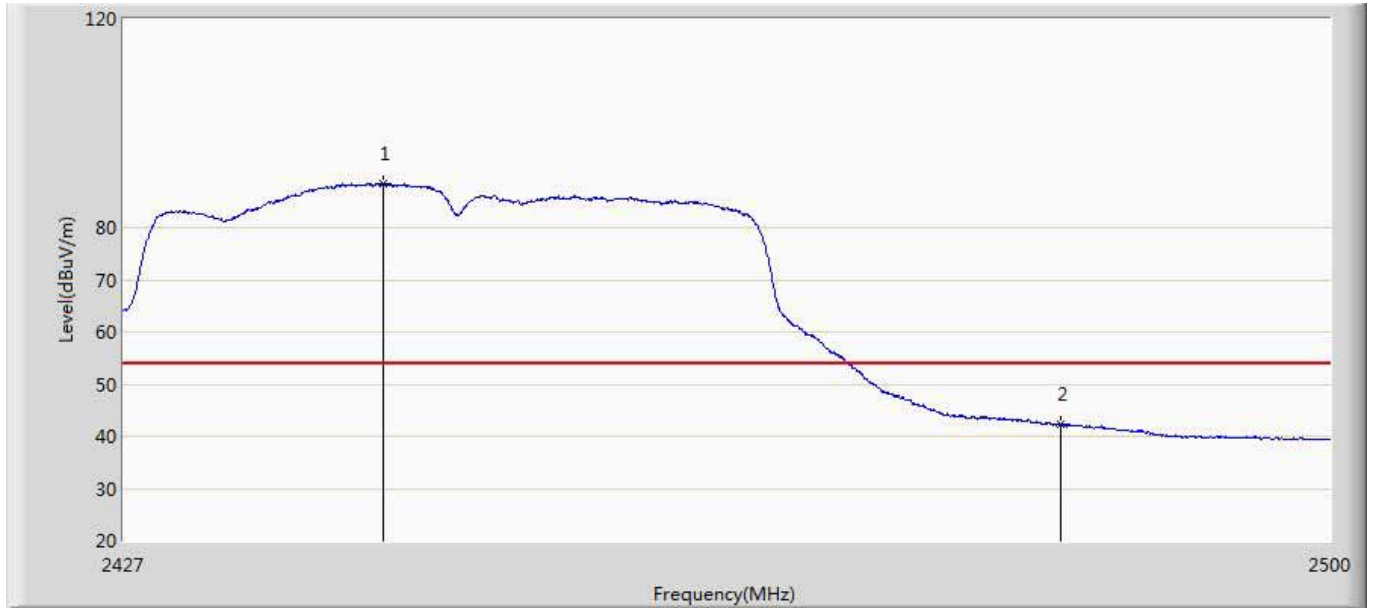
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2457.660	98.118	61.904	44.118	54.000	36.214	AV
2		2483.500	53.013	16.751	-0.987	54.000	36.261	AV

Engineer: Simon	
Site: AC5	Time: 2016/10/13 - 10:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2447MHz by 802.11n40	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2443.315	99.069	62.854	25.069	74.000	36.215	PK
2		2483.500	53.799	17.538	-20.201	74.000	36.261	PK

Engineer: Simon	
Site: AC5	Time: 2016/10/13 - 10:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: 300Mbps Wireless N Access Point	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2447MHz by 802.11n40	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2442.549	88.317	52.105	34.317	54.000	36.212	AV
2		2483.500	42.447	6.186	-11.553	54.000	36.261	AV

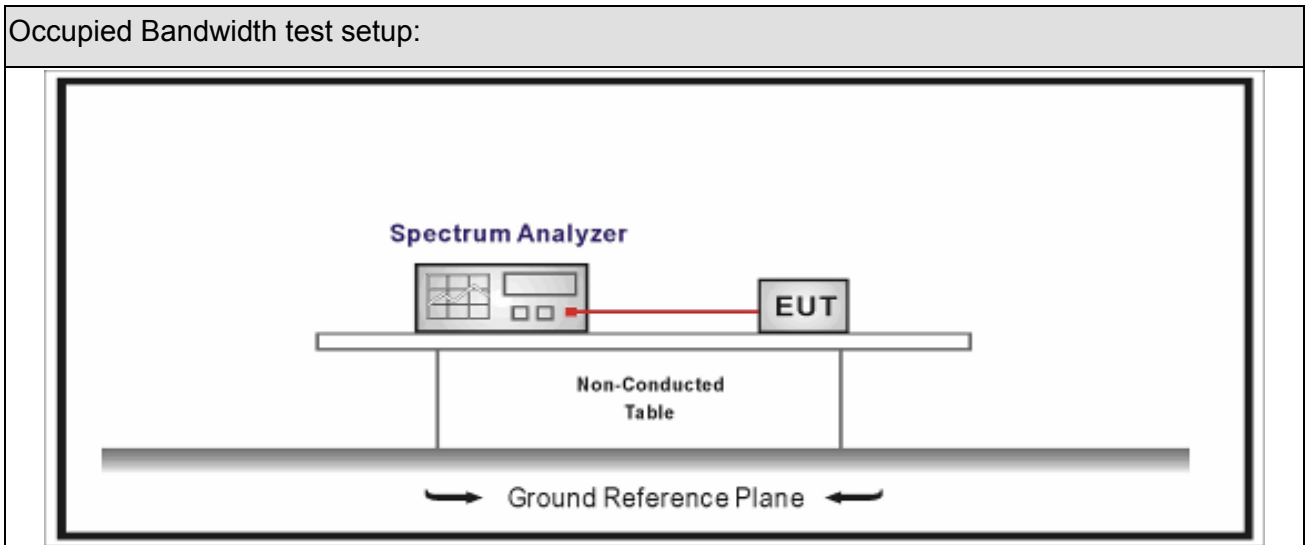
## 7. Occupied Bandwidth

### 7.1. Test Equipment

Occupied Bandwidth / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.02.04	2017.02.04
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.

### 7.2. Test Setup



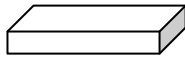
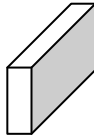
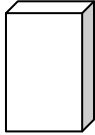
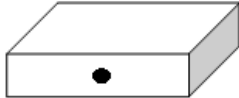


### 7.3. Limit

Occupied Bandwidth
Systems using digital modulation techniques operate in the 2400-2483.5 MHz. The minimum 6 dB bandwidth shall be at least 500 kHz

### 7.4. Test Procedure

Test Method			
	Reference Rule	Chapter	Description
<input checked="" type="checkbox"/>	ANSI C63.10	11.8	DTS bandwidth
	<input type="checkbox"/> ANSI C63.10	11.8.1	Option 1
	<input checked="" type="checkbox"/> ANSI C63.10	11.8.2	Option 2

**7.5. EUT test definition**

Item	Occupied Bandwidth			
Device Category	<input checked="" type="checkbox"/>	Fixed position use		
	<input type="checkbox"/>	Mobile position use		
Test mode	Mode 1~4			
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 0		
				
	<input checked="" type="checkbox"/>	Chain 0	Chain 1	
				
	<input type="checkbox"/>	Chain 0	Chain 1	Chain 2
				

**7.6. Test Result**

Product Name	: 300Mbps Wireless N Access Point	Power	: 9V /0.6A
Test Mode	: Mode1~4	Test Site	: TR8
Test Date	: 2016.09.06		

**Antenna #1**

Mode	CH.	Test Freq. (MHz)	99% Occupied Bandwidth (MHz)	6dB Occupied Bandwidth (MHz)	Limit (kHz)	Result
1	01	2412	13.923	10.05	>500	Pass
1	06	2437	13.652	10.04	>500	Pass
1	11	2462	13.635	9.583	>500	Pass
2	01	2412	16.113	15.09	>500	Pass
2	06	2437	16.169	15.10	>500	Pass
2	11	2462	16.172	15.09	>500	Pass
3	01	2412	17.193	15.10	>500	Pass
3	06	2437	17.232	15.11	>500	Pass
3	11	2462	17.185	15.10	>500	Pass
4	03	2422	35.527	33.77	>500	Pass
4	06	2437	35.726	35.02	>500	Pass
4	09	2452	35.712	35.08	>500	Pass

Note : The worst case of Occupied Bandwidth as below in next page:

Mode 1 CH11 (2462MHz)





**Antenna #2**

Mode	CH.	Test Freq. (MHz)	99% Occupied Bandwidth (MHz)	6dB Occupied Bandwidth (MHz)	Limit (kHz)	Result
1	01	2412	13.713	9.578	>500	Pass
1	06	2437	13.826	10.03	>500	Pass
1	11	2462	13.381	10.01	>500	Pass
2	01	2412	16.161	15.09	>500	Pass
2	06	2437	16.149	15.07	>500	Pass
2	11	2462	16.198	13.84	>500	Pass
3	01	2412	17.179	15.10	>500	Pass
3	06	2437	17.289	15.00	>500	Pass
3	11	2462	17.178	15.06	>500	Pass
4	03	2422	35.575	33.77	>500	Pass
4	06	2437	35.66	35.03	>500	Pass
4	09	2452	35.744	35.05	>500	Pass

Note : The worst case of Occupied Bandwidth as below in next page:

Mode 1 CH01 (2412MHz)



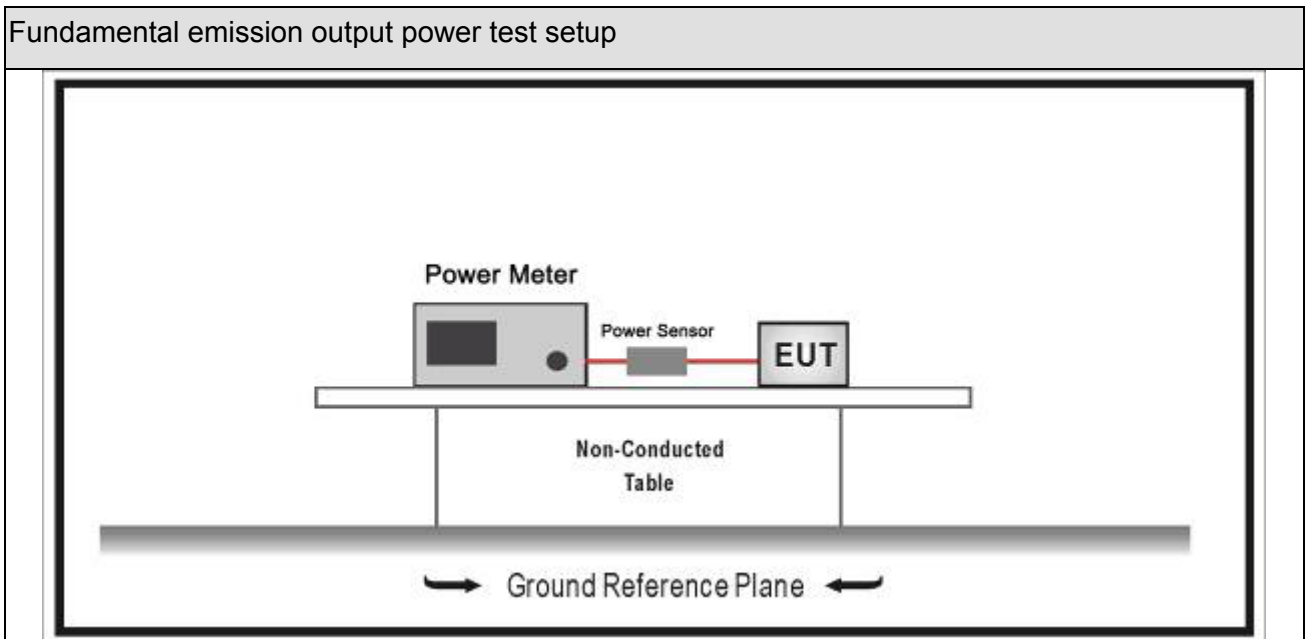
## 8. Fundamental emission output power

### 8.1. Test Equipment

Fundamental emission output power/ TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2016.01.04	2017.01.04
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.02.04	2017.02.04
Wideband Peak Power Meter	Anritsu	ML2495A	0905006	2015.10.14	2016.10.14
Power Sensor	Anritsu	MA2411B	0846014	2015.10.14	2016.10.14
Temperature/Humidity Meter	zhicheng	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.

### 8.2. Test Setup



### 8.3. Limit

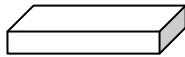
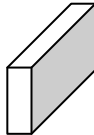
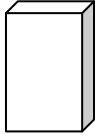
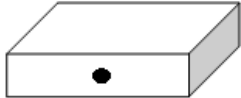


Fundamental emission output power Limit		
<input checked="" type="checkbox"/>	$G_{TX} < 6\text{dBi}$	$P_{out} \leq 30\text{dBm}$
<input type="checkbox"/>	$G_{TX} > 6\text{dBi}$	
<input type="checkbox"/>	Non-Fix point-point	$P_{out} \leq 30 - (G_{TX} - 6)$
<input type="checkbox"/>	Fix point-point	$P_{out} \leq 30 - [(G_{TX} - 6)]/3$
<input type="checkbox"/>	Point-to-multipoint	$P_{out} \leq 30 - (G_{TX} - 6)$
<input type="checkbox"/>	Overlap Beams	$P_{out} \leq 30 - [(G_{TX} - 6)]/3$
<input type="checkbox"/>	Aggregate power transmitted simultaneously on all beams	$P_{out} \leq 30 - [(G_{TX} - 6)]/3$
<input type="checkbox"/>	single directional beam	$P_{out} \leq 30 - [(G_{TX} - 6)]/3 + 8\text{dB}$
<p>Note 1 : <math>G_{TX}</math> directional gain of transmitting antennas.</p> <p>Note 2 : <math>P_{out}</math> is maximum peak conducted output power .</p>		

**8.4. Test Procedure**

Fundamental emission output power Test Method					
	References Rule		Chapter	Description	
<input checked="" type="checkbox"/>	ANSI C63.10		11.9	Fundamental emission output power	
<input type="checkbox"/>	ANSI C63.10		11.9.1	Maximum peak conducted output power	
	<input type="checkbox"/>	ANSI C63.10	11.9.1.1	RBW $\geq$ DTS bandwidth	
	<input type="checkbox"/>	ANSI C63.10	11.9.1.2	Integrated band power method	
	<input type="checkbox"/>	ANSI C63.10	11.9.1.3	PKPM1 Peak power meter method	
<input checked="" type="checkbox"/>	ANSI C63.10		11.9.2	Maximum conducted (average) output power	
	<input type="checkbox"/>	ANSI C63.10		11.9.2.2	Measurement using a spectrum analyzer (SA)
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.2	Method AVGSA-1(Duty cycle 98%)	
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.3	Method AVGSA-1A(Duty cycle 98%)	
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.4	Method AVGSA-2(Duty cycle 98%)	
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.5	Method AVGSA-2A(Duty cycle 98%)	
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.4	Method AVGSA-3	
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.5	Method AVGSA-3A	
	<input checked="" type="checkbox"/>	ANSI C63.10		11.9.2.3	Measurement using a power meter (PM)
	<input type="checkbox"/>	ANSI C63.10	11.9.2.3.1	Method AVGPM	
	<input checked="" type="checkbox"/>	ANSI C63.10	11.9.2.3.2	Method AVGPM-G	

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 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 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 checked="" 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 type="checkbox"/> KDB 662911	F2)f) (ii)	Antenna have the different gain with more than one spatial stream

**8.5. EUT test definition**

Item	Fundamental emission output power			
Device Category	<input checked="" type="checkbox"/>	Fixed position use		
	<input type="checkbox"/>	Mobile position use		
Test mode	Mode 1~4			
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 0		
				
	<input checked="" type="checkbox"/>	Chain 0	Chain 1	
				
	<input type="checkbox"/>	Chain 0	Chain 1	Chain 2
				

### 8.6. Test Result

Product Name	: 300Mbps Wireless N Access Point	Power	: 9V /0.6A
Test Mode	: Mode1~4	Test Site	: TR8
Test Date	: 2016.09.06		

Mode	Channel	Test Frequency (MHz)	Average Power Output (dBm)		Total Average (dBm)	Antenna Gain (dBi)	Limit (dBm)	Result
			Ant1	Ant2				
1	01	2412	19.83	19.68	22.766	2.0	30	Pass
1	02	2417	20.15	20.04	23.106	2.0	30	Pass
1	06	2437	20.54	20.32	23.442	2.0	30	Pass
1	10	2457	19.07	18.86	21.977	2.0	30	Pass
1	11	2462	18.27	18.02	21.157	2.0	30	Pass
2	01	2412	14.52	14.83	17.688	2.0	30	Pass
2	02	2417	18.11	15.27	19.928	2.0	30	Pass
2	06	2437	18.43	18.55	21.501	2.0	30	Pass
2	10	2457	17.81	17.94	20.886	2.0	30	Pass
2	11	2462	15.49	15.31	18.411	2.0	30	Pass
3	01	2412	14.24	14.54	17.403	2.0	30	Pass
3	02	2417	18.42	18.61	21.526	2.0	30	Pass
3	06	2437	19.29	19.14	22.226	2.0	30	Pass
3	10	2457	17.68	17.34	20.524	2.0	30	Pass
3	11	2462	14.03	13.68	16.869	2.0	30	Pass
4	03	2422	10.31	10.47	13.401	2.0	30	Pass
4	04	2427	11.94	12.12	15.041	2.0	30	Pass
4	06	2437	13.94	14.04	17.001	2.0	30	Pass
4	08	2447	12.13	12.25	15.201	2.0	30	Pass
4	09	2452	11.21	11.37	14.301	2.0	30	Pass

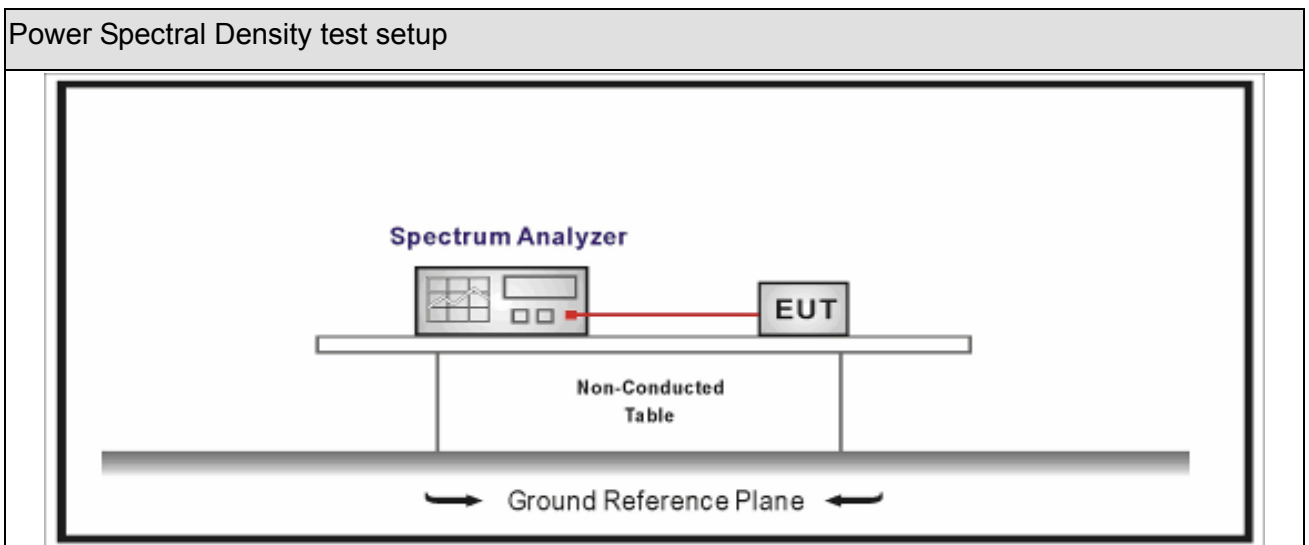
## 9. Power Spectral Density

### 9.1. Test Equipment

Power Spectral Density / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.02.04	2017.02.04
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.

### 9.2. Test Setup



### 9.3. Limit

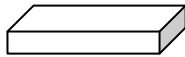
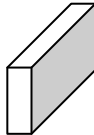
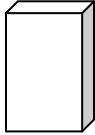
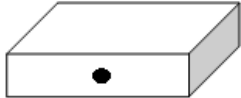


Power Spectral Density Limit
Power Spectral Density 8dBm/3kHz



**9.4. Test Procedure**

Power Spectral Density Test Method			
	References Rule	Chapter	Description
<input checked="" type="checkbox"/>	ANSI C63.10	11.10	Maximum power spectral density level in the fundamental emission
<input checked="" type="checkbox"/>	ANSI C63.10	11.10.2	Method PKPSD (peak PSD)
<input type="checkbox"/>	ANSI C63.10	11.10.3	Method AVGPSD-1(Duty cycle 98%)
<input type="checkbox"/>	ANSI C63.10	11.10.4	Method AVGPSD-1A(Duty cycle 98%)
<input type="checkbox"/>	ANSI C63.10	11.10.5	Method AVGPSD-2(Duty cycle < 98%)
<input type="checkbox"/>	ANSI C63.10	11.10.6	Method AVGPSD-2A(Duty cycle < 98%)
<input type="checkbox"/>	ANSI C63.10	11.10.7	Method AVGPSD-3
<input type="checkbox"/>	ANSI C63.10	11.10.8	Method AVGPSD-3A

**9.5. EUT test definition**

Item	Power Spectral Density Test Method			
Device Category	<input checked="" type="checkbox"/>	Fixed position use		
	<input type="checkbox"/>	Mobile position use		
Test mode	Mode 1~4			
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 0		
				
	<input checked="" type="checkbox"/>	Chain 0	Chain 1	
				
	<input type="checkbox"/>	Chain 0	Chain 1	Chain 2
				

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 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 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 checked="" 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 type="checkbox"/> KDB 662911	F2)f) (ii)	Antenna have the different gain with more than one spatial stream

### 9.6. Test Result

Product Name	: 300Mbps Wireless N Access Point	Power	: 9V /0.6A
Test Mode	: Mode1~4	Test Site	: TR8
Test Date	: 2016.09.06		

Mode	Channel	Test Frequency (MHz)	Measurement PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	Directional Gain (dBi)	Limit (dBm/3k Hz)	Result
			Ant 0	Ant 1				
1	01	2412	-3.475	-4.166	-0.796	5.0	8.0	Pass
1	06	2437	-4.335	-3.987	-1.147	5.0	8.0	Pass
1	11	2462	-5.761	-5.784	-2.762	5.0	8.0	Pass
2	01	2412	-8.615	-9.152	-5.865	5.0	8.0	Pass
2	06	2437	-6.210	-7.120	-3.631	5.0	8.0	Pass
2	11	2462	-9.168	-9.778	-6.452	5.0	8.0	Pass
3	01	2412	-9.043	-10.171	-6.560	5.0	8.0	Pass
3	06	2437	-7.196	-6.035	-3.567	5.0	8.0	Pass
3	11	2462	-11.718	-10.694	-8.166	5.0	8.0	Pass
4	03	2422	-17.541	-16.896	-14.196	5.0	8.0	Pass
4	06	2437	-14.247	-13.488	-10.841	5.0	8.0	Pass
4	09	2452	-16.790	-16.539	-13.652	5.0	8.0	Pass

Mode 1 CH01(2412MHz) Ant 0



Mode 1 CH01(2412MHz) Ant 1



The End