



中国认可
国际互认
检测
TESTING
CNAS L5313



DEKRA

Test Report

FCC Part15 Subpart E

Product Name : AC450 Wireless Nano USB Adapter

Model No. : Archer T1U

FCC ID : TE7T1UV1

Applicant : TP-Link Technologies Co., Ltd.

Address : Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Central Science and Technology Park,Shennan Rd,
Nanshan, Shenzhen,China

Date of Receipt : Mar. 14th, 2017

Test Date : Mar. 14th, 2017~ Jun. 21st, 2017

Issued Date : Jul. 07th, 2017

Report No. : 1732062R-RF-US-P09V02

Report Version : V1.0

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 : Jul. 07th, 2017

Report No. : 1732062R-RF-US-P09V02



Product Name : AC450 Wireless Nano USB Adapter
Applicant : TP-Link Technologies Co., Ltd.
Address : Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Manufacturer : TP-Link Technologies Co., Ltd.
Address : Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Model No. : Archer T1U
FCC ID : TE7T1UV1
EUT Voltage : DC 5V
Test Voltage : AC 120V / 60Hz
Brand Name : tp-link
Applicable Standard : FCC CFR Title 47 Part 15 Subpart E
ANSI C63.4:2014;
ANSI C63.10:2013;
789033 D02 General UNII Test Procedures New Rules v01r04
Test Result : Complied
Performed Location : DEKRA Testing and Certification (Suzhou) Co., Ltd.
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TABLE OF CONTENTS

Description	Page
1. General Information	7
1.1. EUT Description	7
1.2. Antenna information	8
1.3. Working Frequency of Each Channel:.....	9
1.4. Mode of Operation.....	10
1.5. Tested System Details	11
1.6. Configuration of Tested System	12
1.7. EUT Exercise Software	14
2. Technical Test	15
2.1. Summary of Test Result	15
2.2. Test Frequency configuration:	15
2.3. Power Parameter Value of the test software	16
2.4. Power vs Data Rate	18
2.5. Duty Cycle	20
2.6. Test Environment.....	22
2.7. Uncertainty	22
3. Conducted Emission.....	23
3.1. Test Equipment.....	23
3.2. Test Setup.....	23
3.3. Limit	24
3.4. Test Procedure	24
3.5. Test Result.....	25
4. Radiated Emission.....	27
4.1. Test Equipment.....	27
4.2. Test Setup.....	28
4.3. Limit	29
4.4. Test Procedure	32

4.5.	EUT test Axis definition	33
4.6.	Test Result.....	34
5.	Emission bandwidth and occupied bandwidth.....	152
5.1.	Test Equipment.....	152
5.2.	Test Setup.....	152
5.3.	Limit	152
5.4.	Test Procedure	153
5.5.	EUT test Axis definition	154
5.6.	Test Result.....	155
6.	6dB bandwidth	158
6.1.	Test Equipment.....	158
6.2.	Test Setup.....	158
6.3.	Limit	158
6.4.	Test Procedure	159
6.5.	EUT test Axis definition	160
6.6.	Test Result.....	161
7.	Power Output.....	163
7.1.	Test Equipment.....	163
7.2.	Test Setup.....	163
7.3.	Limit	164
7.4.	Test Procedure	165
7.5.	EUT test Axis definition	166
7.6.	Test Result.....	167
8.	Peak Power Spectral Density	170
8.1.	Test Equipment.....	170
8.2.	Test Setup.....	170
8.3.	Limit	171
8.4.	Test Procedure	172
8.5.	EUT test Axis definition	173

8.6.	Test Result.....	174
9.	Radiated Emission Band Edge	178
9.1.	Test Equipment.....	178
9.2.	Test Setup.....	178
9.3.	Limit	179
9.4.	Test Procedure	182
9.5.	EUT test Axis definition	183
9.6.	Test Result.....	184
10.	Frequency Stability	284
10.1.	Test Equipment.....	284
10.2.	Test Setup.....	284
10.3.	Limit	285
10.4.	Test Procedure	286
10.5.	EUT test Axis definition	287
10.6.	Test Result.....	288
11.	Antenna Requirement.....	289
11.1.	Limit	289
11.2.	Antenna Connector Construction	289

History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
1732062R-RF-US-P09V02	V1.0	Initial Issued Report	Jul. 07th, 2017

1. General Information

1.1. EUT Description

Product Name	AC450 Wireless Nano USB Adapter				
Brand Name	TP-Link				
Model No.	Archer T1U				
EUT Voltage	DC 5V				
Test Voltage	AC 120V / 60Hz				
Type of Modulation	OFDM				
Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps				
	802.11n: up to 150Mbps				
	802.11ac: up to 433.3Mbps				
Channel Control	Auto				
Transmit modes	☒ 802.11a	☒ 802.11n(20MHz)	☒ 802.11n(40MHz)		
	☒ 802.11ac(20MHz)	☒ 802.11ac(40MHz)	☒ 802.11ac(80MHz)		
Support Bands	☒ 5150MHz~5250MHz	☐ Outdoor AP ☐ Indoor AP ☐ Fixed point-to-point AP ☐ Fixed point-to-Multi point AP ☒ Mobile and Portable Client			
	☒ 5250MHz~5350MHz				
	☒ 5470MHz~5725MHz	☐ With TDWR Channels ☒ Without TDWR Channels			
	☒ 5725MHz~5850MHz				

1.2. Antenna information

Antenna Model No.	N/A					
Antenna manufacturer	N/A					
Antenna Delivery	☒	1*TX+1*RX	☐	2*TX+2*RX	☐	3*TX+3*RX
Antenna technology	☒	SISO				
	☐	MIMO	☐	Basic		
			☐	Sectorized antenna systems		
			☐	Cross-polarized antennas		
			☐	Unequal antenna gains, with equal transmit powers		
			☐	Spatial Multiplexing		
			☐	CDD		
			☐	Beam-forming		
Antenna Type	☐	External	☐	Dipole		
	☒	Internal	☒	PIFA		
			☐	PCB		
			☐	Ceramic Chip Antenna		
			☐	Metal plate type F antenna		
			☐	Cross-polarize Antenna		
Antenna Gain	2dBi					

1.3. Working Frequency of Each Channel:

802.11a/n/ac(20MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180 MHz	40	5200 MHz	44	5220 MHz	48	5240 MHz
52	5260 MHz	56	5280 MHz	60	5300 MHz	64	5320 MHz
100	5500 MHz	104	5520 MHz	108	5540 MHz	112	5550 MHz
116	5580 MHz	132	5660 MHz	136	5680 MHz	140	5700 MHz
149	5745 MHz	153	5765 MHz	157	5785 MHz	161	5805 MHz
165	5825 MHz	N/A	N/A	N/A	N/A	N/A	N/A
802.11n/ac(40MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	54	5270 MHz	62	5310 MHz
102	5510 MHz	110	5550 MHz	134	5670 MHz	151	5755 MHz
159	5795 MHz	N/A	N/A	N/A	N/A	N/A	N/A
802.11ac(80MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz	106	5530MHz	155	5775 MHz

1.4. Mode of Operation

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

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

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

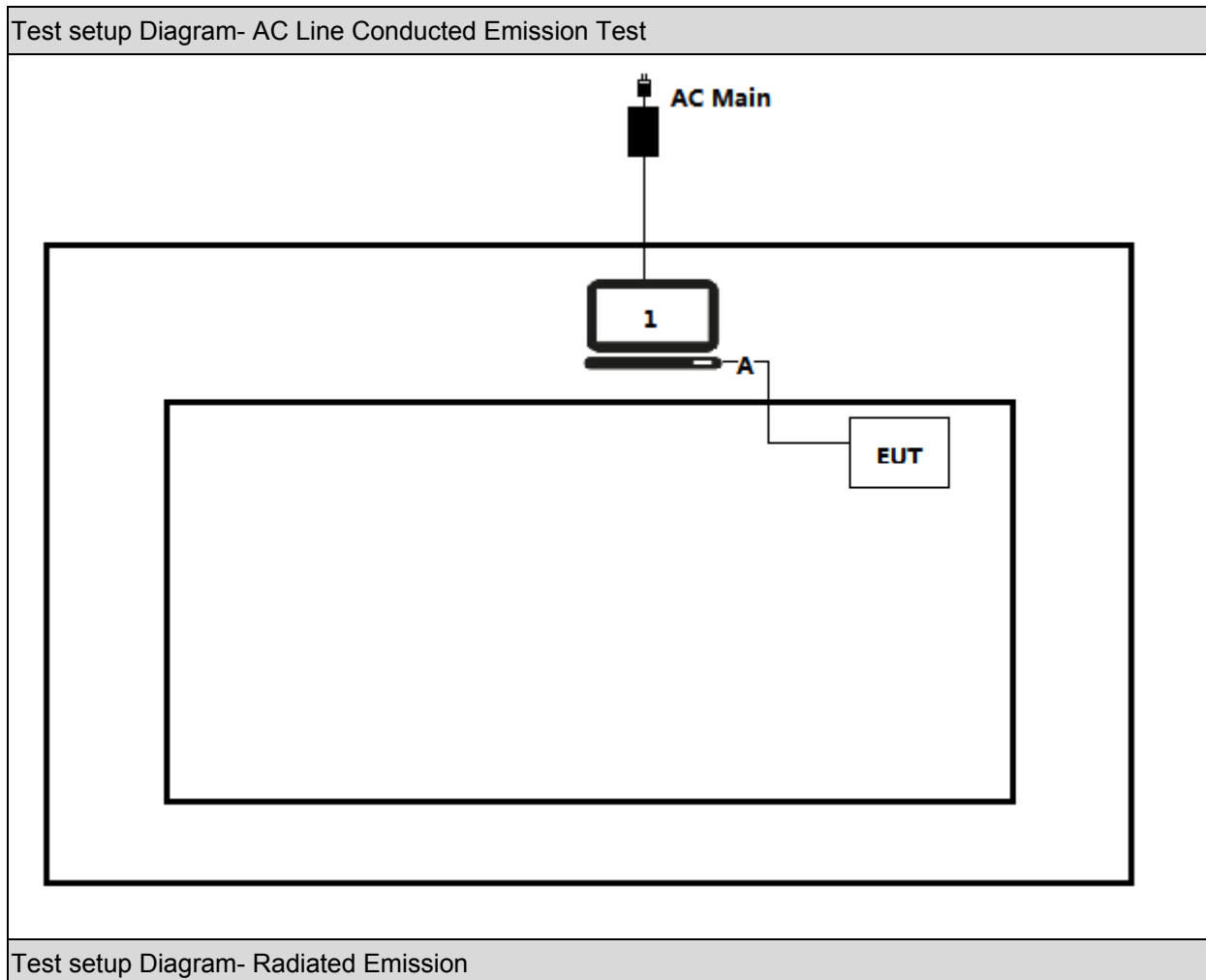
Note 2: For portable device, radiated tests was verified over X, Y, Z axis, and shown the worst case on this report.

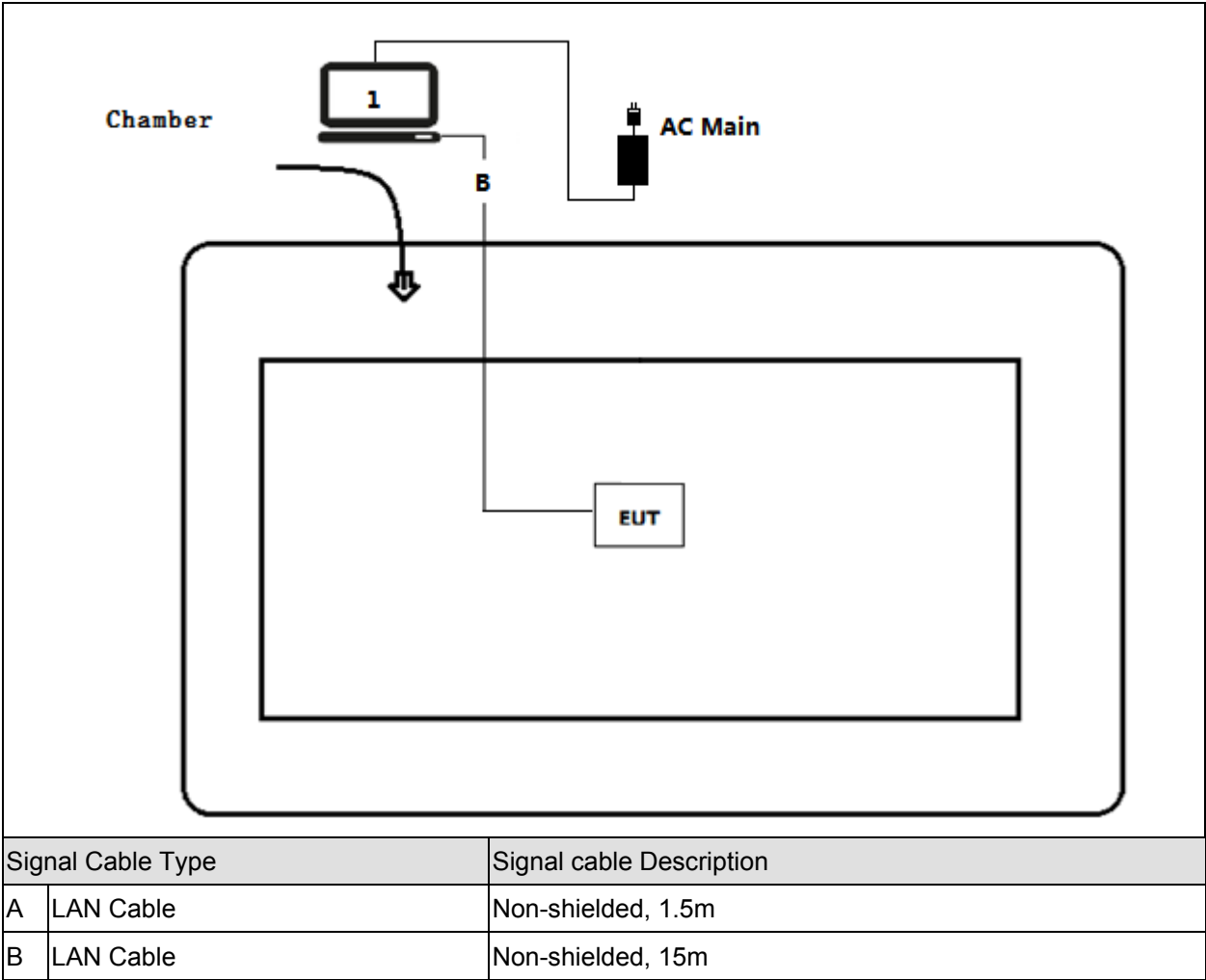
1.5. Tested System Details

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

Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook	Lenovo	Think pad x220	SUA0600195	Non-shielded
3	Notebook	Asus	N80V	8BN0AS226971468	None-shielded
2	POE	N/A	N/A	N/A	Power by adapter

1.6. Configuration of Tested System





1.7. EUT Exercise Software

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

2. Technical Test

2.1. Summary of Test Result

- ☒ No deviations from the test standards
☐ Deviations from the test standards as below description:

Performed Test Item	Normative References	Limit	Result
Conducted Emission	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.207	FCC 15.207	PASS
Radiated Emission	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.209	FCC 15.209	PASS
Emission bandwidth and occupied bandwidth	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.407(a)	FCC 15.407(e)	PASS
6dB Emission Bandwidth	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.407(a)	FCC 15.407(e)	PASS
Power Output	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.407(a)	FCC 15.407(a)	PASS
Peak Power Spectral Density	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.407(a)	FCC 15.407(a)	PASS
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.205, 15.407(b)	FCC 15.407(b)	PASS
Frequency Stability	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.407(g)	Within the band	PASS
Antenna Requirement	FCC CFR Title 47 Part 15 Subpart C: 2015 Section 15.203	FCC 15.203	PASS

2.2. Test Frequency configuration:

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

2.3. Power Parameter Value of the test software

Test Mode	Frequency	Power Setting
		Ant 0
802.11a	5180	1D
	5220	1D
	5240	1D
	5260	21
	5300	21
	5320	21
	5500	26
	5580	26
	5700	26
	5745	3F
	5785	3F
	5825	3F
802.11n(20MHz)	5180	21
	5220	21
	5240	21
	5260	24
	5300	24
	5320	24
	5500	2C
	5580	2C
	5700	2C
	5745	3F
	5785	3F
	5825	3F
802.11n(40MHz)	5190	22
	5230	22
	5270	24
	5310	24
	5510	25
	5550	34
	5670	34
	5755	3F

	5795	3F
802.11ac(20MHz)	5180	21
	5220	21
	5240	21
	5260	24
	5300	24
	5320	24
	5500	2E
	5580	2E
	5700	2E
	5745	3F
	5785	3F
	5825	3F
802.11ac(40MHz)	5190	20
	5230	23
	5270	24
	5310	24
	5510	25
	5550	34
	5670	34
	5755	3F
	5795	3F
802.11ac(80MHz)	5210	20
	5290	25
	5530	21
	5775	3F

2.4. Power vs Data Rate

MCS Index for 802.11n	Spatial Streams	Data Rate (Mbps)						
		802.11b	802.11g	802.11a	20MHz Bandwidth		40MHz Bandwidth	
					800ns GI	400ns GI	800ns GI	400ns GI
0	1	1	6	6	6.5	7.2	13.5	15.0
1	1	2	9	9	13.0	14.4	27.0	30.0
2	1	5.5	12	12	19.5	21.7	40.5	45.0
3	1	11	18	18	26.0	28.9	54.0	60.0
4	1	---	24	24	39.0	43.3	81.0	90.0
5	1	---	36	36	52.0	57.8	108.0	120.0
6	1	---	48	48	58.5	65.0	121.5	135.0
7	1	---	54	54	65.0	72.2	135.0	150.0
Note 1 : The blue form is the maximum power data rate.								

Spatial Streams (Note1)	MCS Index	Modulation type	Coding rate	Data Rate(Mb/s)							
				20MHz		40MHz		80MHz		160MHz	
				Guard Interval		Guard Interval		Guard Interval		Guard Interval	
				800ns	400ns	800ns	400ns	800ns	400ns	800ns	400ns
1	0	BPSK	1/2	6.5	7.2	13.5	15	29.3	32.5	58.5	65
	1	QPSK	1/2	13	14.4	27	30	58.5	65	117	130
	2	QPSK	3/4	19.5	21.7	40.5	45	87.8	97.5	175.5	195
	3	16-QAM	1/2	26	28.9	54	60	117	130	234	260
	4	16-QAM	3/4	39	43.3	81	90	175.5	195	351	390
	5	64-QAM	2/3	52	57.8	108	120	234	260	468	520
	6	64-QAM	3/4	58.5	65	121.5	135	263.3	292.5	526.5	585
	7	64-QAM	5/6	65	72.2	135	150	292.5	325	585	650
	8	256-QAM	3/4	78	86.7	162	180	351	390	702	780
	9	256-QAM	5/6	N/A	N/A	180	200	390	433.3	780	866.7
Note 1 : The blue form is the maximum power data rate.											

2.5. Duty Cycle

Test Mode	Tx On (ms)	Tx Off (ms)	VBW	Tx On + Tx Off (ms)	Duty Cycle
802.11a	N/A	N/A	10Hz	N/A	100%
802.11 n(20MHz)	N/A	N/A	10Hz	N/A	100%
802.11n(40MHz)	N/A	N/A	10Hz	N/A	100%
802.11ac(20MHz)	N/A	N/A	10Hz	N/A	100%
802.11ac(40MHz)	N/A	N/A	10Hz	N/A	100%
802.11ac(80MHz)	N/A	N/A	10Hz	N/A	100%

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

Note 2: According to KDB 789033 , when test for Radiated Emission Band Edge and Radiated Emission, $VBW \geq 1/T$ will be used.

802.11a



802.11n(20MHz)

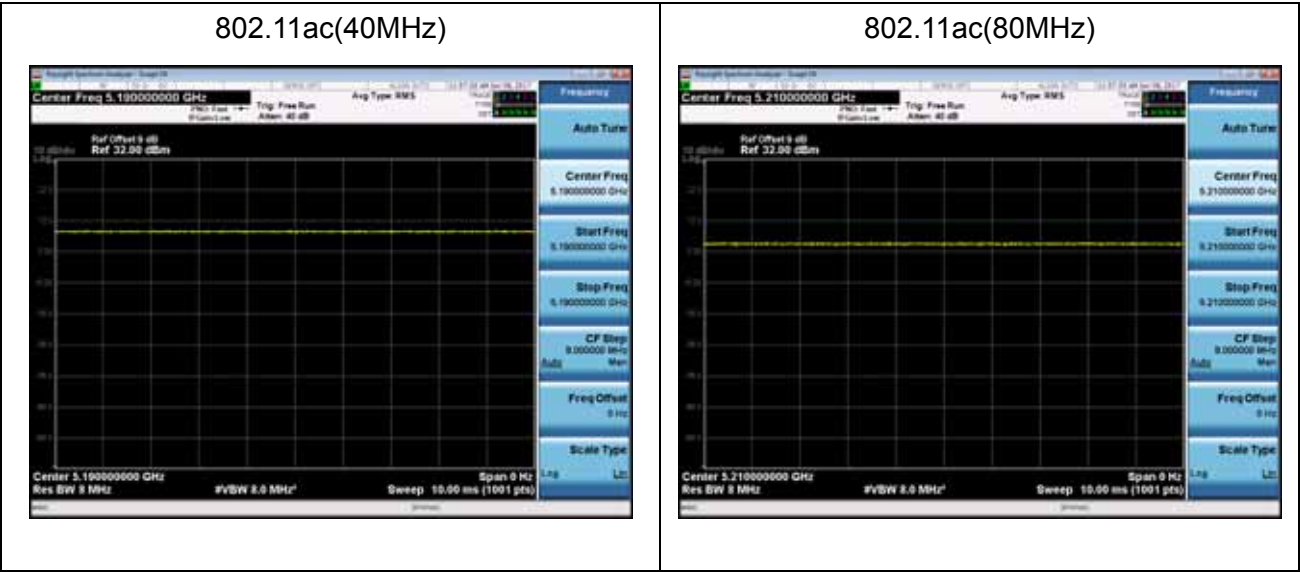


802.11n(40MHz)



802.11ac(20MHz)





2.6. Test Environment

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

2.7. Uncertainty

Test Items	Uncertainty
AC Power Line Conducted Emission	$\pm 2.02\text{dB}$
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	$\pm 1.27\text{dB}$
Frequency Stability	$\pm 100\text{ Hz}$

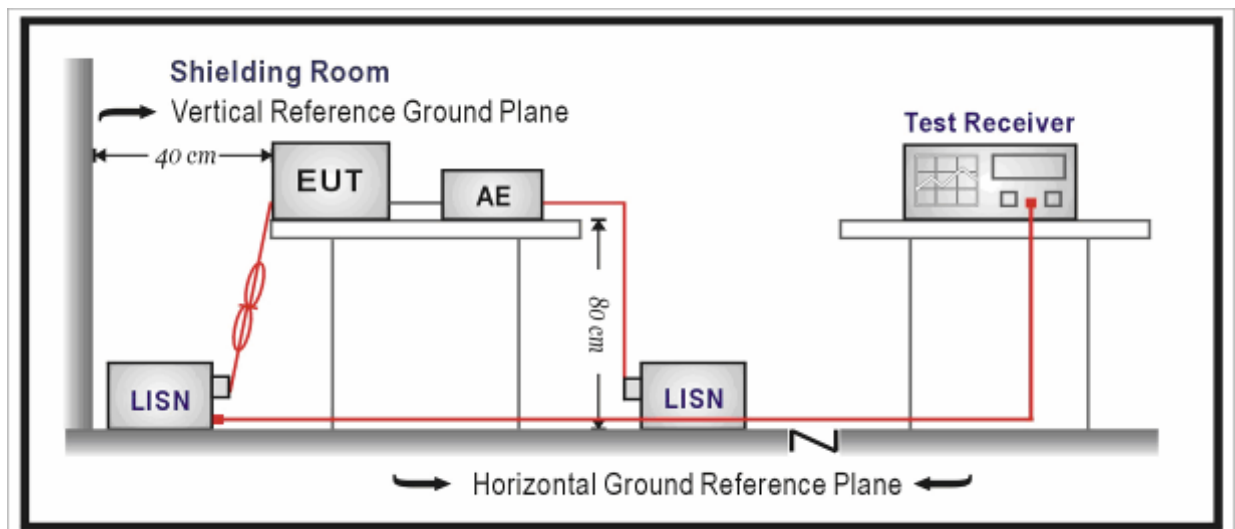
3. Conducted Emission

3.1. Test Equipment

Conducted Emission / TR-1					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100906	2017.03.05	2018.03.04
Two-Line V-Network	R&S	ENV 216	101189	2016.06.16	2017.07.15
Two-Line V-Network	R&S	ENV 216	101044	2016.09.16	2017.09.15
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	N/A	N/A
50ohm Termination	SHX	TF2	07081402	2016.09.16	2017.09.15
Temperature/Humidity Meter	Zhichen	ZC1-2	TR1-TH	2017.01.04	2018.01.03

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

3.2. Test Setup



3.3. Limit

Frequency (MHz)	QP (dB μ V)	AV (dB μ V)
0.15 - 0.50	66 – 56	56 – 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

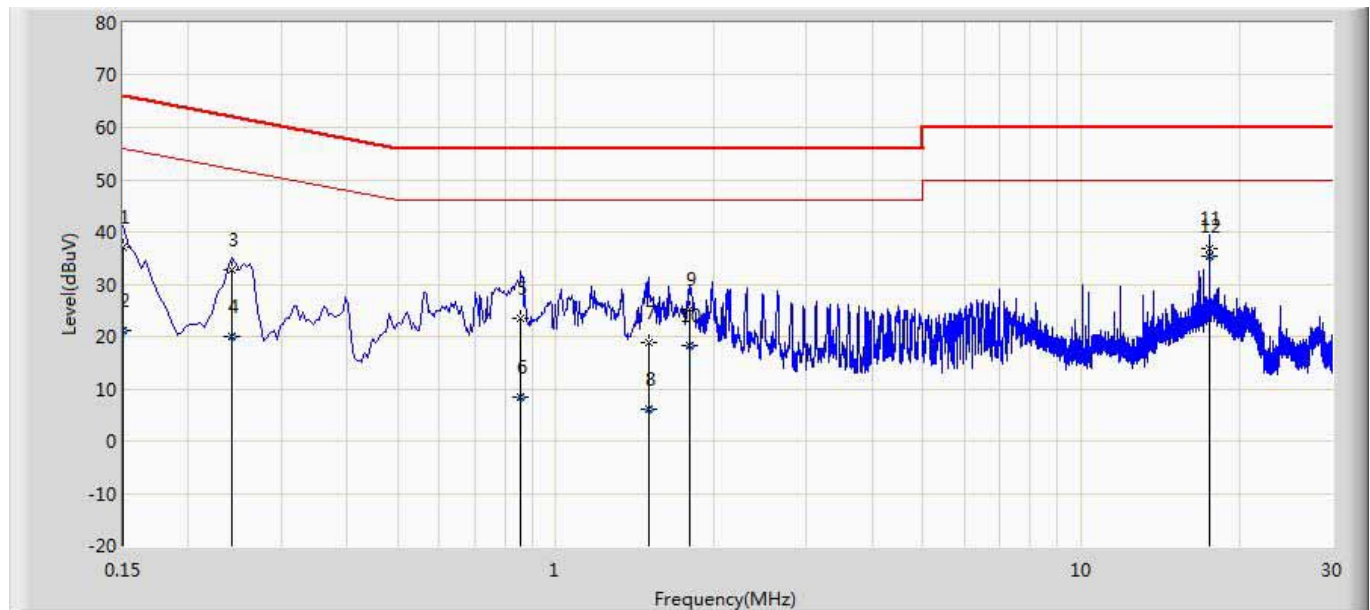
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

3.4. Test Procedure

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

3.5. Test Result

Site: TR1	Time: 2017/3/16
Limit: FCC_Part15.207_CE_AC Power	Margin: 0
Probe: ENV216-L1	Polarity: Line
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5180MHz by 802.11a	



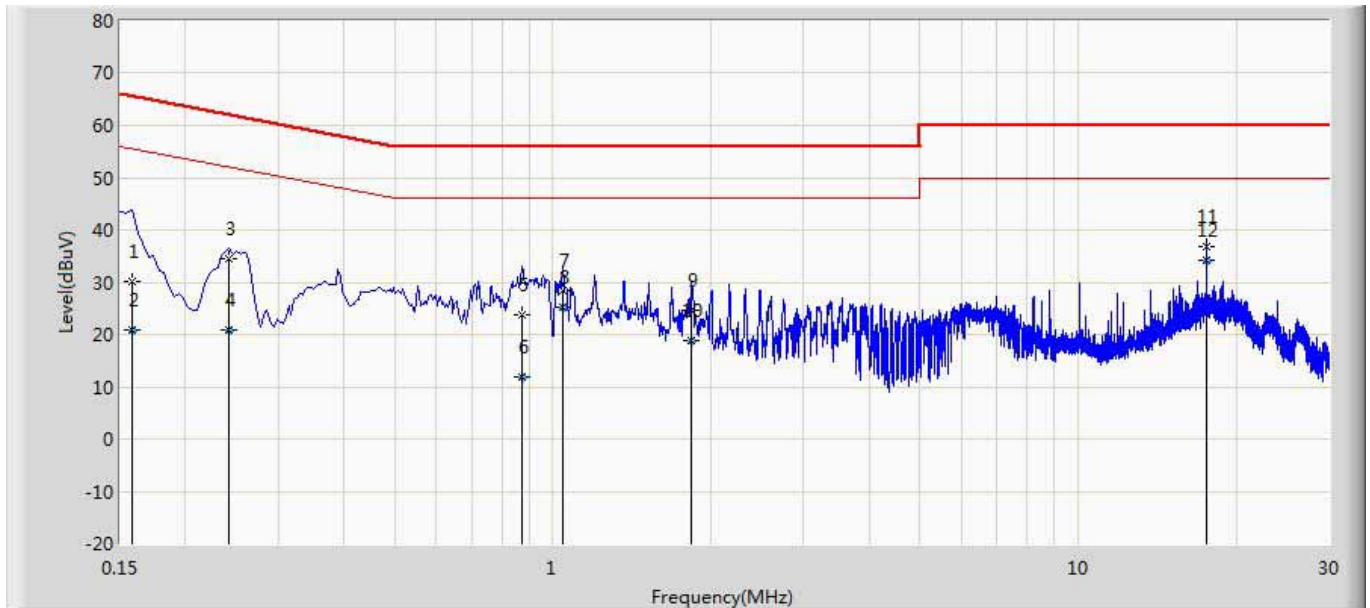
No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.150	37.191	27.455	-28.809	66.000	9.676	0.060	0.000	QP
2		0.150	21.036	11.300	-34.964	56.000	9.676	0.060	0.000	AV
3		0.242	32.686	22.976	-29.341	62.027	9.650	0.060	0.000	QP
4		0.242	20.084	10.374	-31.943	52.027	9.650	0.060	0.000	AV
5		0.858	23.359	13.666	-32.641	56.000	9.623	0.070	0.000	QP
6		0.858	8.464	-1.229	-37.536	46.000	9.623	0.070	0.000	AV
7		1.502	18.839	9.111	-37.161	56.000	9.638	0.090	0.000	QP
8		1.502	6.220	-3.508	-39.780	46.000	9.638	0.090	0.000	AV
9		1.798	25.142	15.412	-30.858	56.000	9.640	0.090	0.000	QP
10		1.798	18.153	8.423	-27.847	46.000	9.640	0.090	0.000	AV
11		17.550	36.874	26.644	-23.126	60.000	9.810	0.420	0.000	QP
12	*	17.550	35.351	25.121	-14.649	50.000	9.810	0.420	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: 2017/3/16
Limit: FCC_Part15.207_CE_AC Power	Margin: 0
Probe: ENV216-N	Polarity: Neutral
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5180MHz by 802.11a	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.158	30.251	20.520	-35.317	65.568	9.671	0.060	0.000	QP
2		0.158	20.876	11.145	-34.692	55.568	9.671	0.060	0.000	AV
3		0.242	34.597	24.877	-27.430	62.027	9.660	0.060	0.000	QP
4		0.242	20.935	11.215	-31.092	52.027	9.660	0.060	0.000	AV
5		0.874	23.911	14.207	-32.089	56.000	9.632	0.073	0.000	QP
6		0.874	11.977	2.273	-34.023	46.000	9.632	0.073	0.000	AV
7		1.042	28.309	18.599	-27.691	56.000	9.630	0.080	0.000	QP
8		1.042	25.302	15.592	-20.698	46.000	9.630	0.080	0.000	AV
9		1.838	24.738	15.003	-31.262	56.000	9.640	0.095	0.000	QP
10		1.838	18.703	8.968	-27.297	46.000	9.640	0.095	0.000	AV
11		17.546	36.704	26.454	-23.296	60.000	9.830	0.420	0.000	QP
12	*	17.546	34.088	23.838	-15.912	50.000	9.830	0.420	0.000	AV

Note:

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

4. Radiated Emission

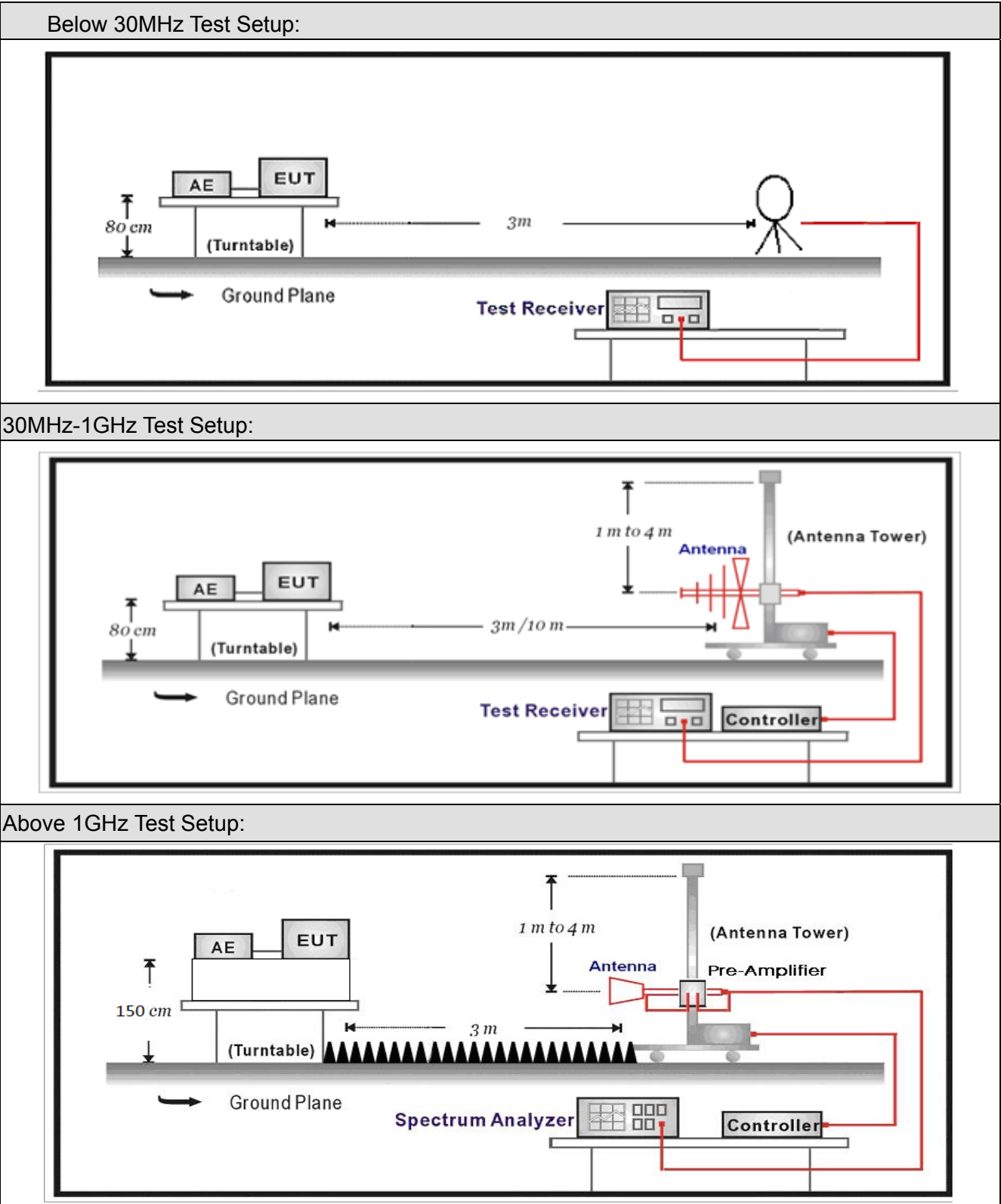
4.1. Test Equipment

Radiated Emission / AC-2					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100573	2017.03.29	2018.03.28
Loop Antenna	R&S	HFH2-Z2	833799/003	2016.11.16	2017.11.15
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2016.10.16	2017.10.15
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2017.03.02	2018.03.01
Temperature/Humidity Meter	Zhichen	ZC1-2	AC2-TH	2017.01.03	2018.01.02

Radiated Emission / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Preamplifier	Miteq	NSP1800-25	1364185	2017.05.06	2018.05.05
Preamplifier	DEKRA Testing and Certification (Suzhou) Co., Ltd.	AP-040G	CHM-0906001	2017.05.06	2018.05.05
DRG Horn	ETS-Lindgren	3117	00123988	2017.01.22	2018.01.21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2016.11.25	2017.11.24
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2017.03.02	2018.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2017.03.02	2018.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C3	2017.03.02	2018.03.01
EMI Receiver	Agilent	N9038A	MY51210196	2017.06.10	2018.06.09
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2017.01.03	2018.01.02

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

4.2. Test Setup



4.3. Limit

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

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

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

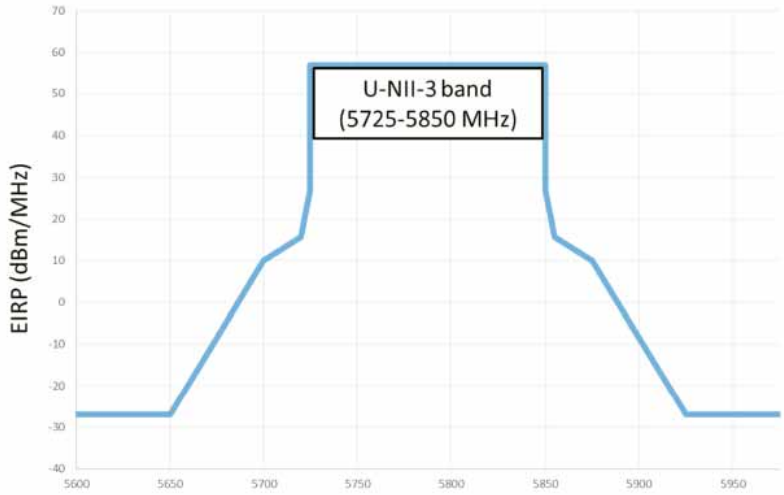
FCC Part 15 Subpart C Paragraph 15.205 (Restricted Band)

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 – 16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1300 – 1427	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1435 – 1626.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1645.5 – 1646.5	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1660 – 1710	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	1718.8 – 1722.2	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2200 – 2300	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2310 – 2390	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2483.5 – 2500	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	2690 – 2900	22.01 – 23.12
8.81425 – 8.81475	162.0125 – 167.17	3260 – 3267	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3332 – 3339	31.2 – 31.8
12.51975–12.52025	240 – 285	3345.8 – 3358	36.43 – 36.5
12.57675–12.57725	322 – 335.4	3600 – 4400	
13.36 – 13.41			

FCC Part 15 Subpart C Paragraph 15.407(b)(1~3) (Unrestricted Band Emissions Limit)

Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dB μ V/m)
5150 - 5250	-27	68.3
5250 - 5350	-27	68.3
5470 - 5725	-27	68.3

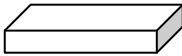
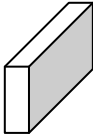
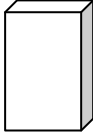
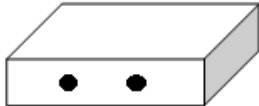
FCC Part 15 Subpart C Paragraph 15.407(b)(4) (Unrestricted Band Emissions Limit)

Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)
5725 - 5850	 U-NII-3 band (5725-5850 MHz)

4.4. Test Procedure

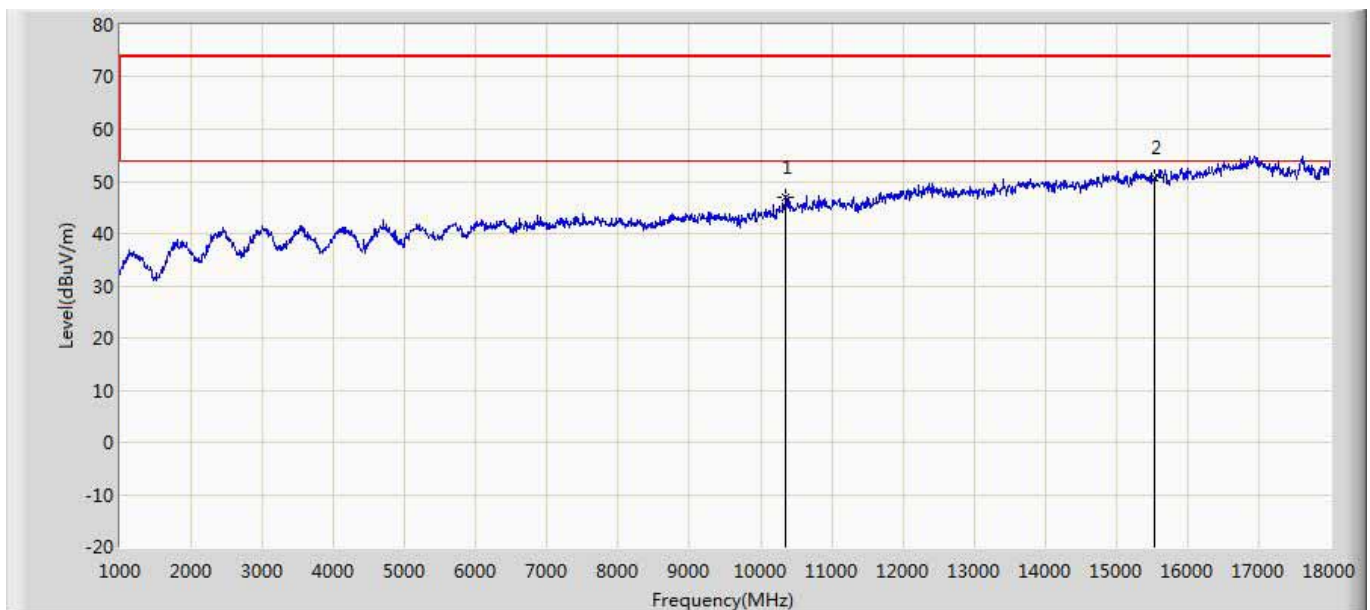
Test Method				
	References Rule		Chapter	Description
☐	ANSI C63.10		12.7.3	Emissions in non-restricted frequency bands
☒	ANSI C63.10		12.7.2	Emissions in restricted frequency bands
	☒	ANSI C63.10	12.7.5	Radiated emission measurements
	☒	ANSI C63.10	12.7.6	Procedure for peak unwanted emissions measurements above 1000 MHz
	☒	ANSI C63.10	12.7.7	Procedures for average unwanted emissions measurements above 1000 MHz
	☐	ANSI C63.10	12.7.7.2	Method AD (average detection)—primary method
	☒	ANSI C63.10	12.7.7.3	Method VB-A (Alternative)
	☒	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
	☒	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	☒	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz
☐	FCC KDB 789033 D02v01r04		G.2	Unwanted Emissions that fall Outside of the Restricted Bands
☐	FCC KDB 789033 D02v01r04		G.1	Unwanted Emissions in the Restricted Bands
	☐	FCC KDB 789033 D02v01r04	G.4	Procedure for Unwanted Emissions Measurements below 1000 MHz
	☐	FCC KDB 789033 D02v01r04	G.5	Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz
	☐	FCC KDB 789033 D02v01r04	G.6	Procedures for Average Unwanted Emissions Measurements above 1000 MHz
	☐	FCC KDB 789033 D02v01r04	G.6.c	Method AD (Average detection)—primary method
	☐	FCC KDB 789033 D02v01r04	G.6.d	Method VB (Averaging using reduced video bandwidth): Alternative method.

4.5. EUT test Axis definition

Item	Radiated Emission			
Device Category	☐	Outdoor AP		
	☐	Indoor AP		
	☐	Fixed point-to-point AP		
	☐	Outdoor fixed point-to-multipoint AP		
	☒	Client		
Test mode	Mode 1-6			
Test method	☒	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis ☐	Worst Axis ☐	Worst Axis ☒
	☐	Conducted		
	☐	Chain 1		
				
	☐	Chain 1	Chain 2	
				
	☐	Chain 1	Chain 2	Chain 3
				

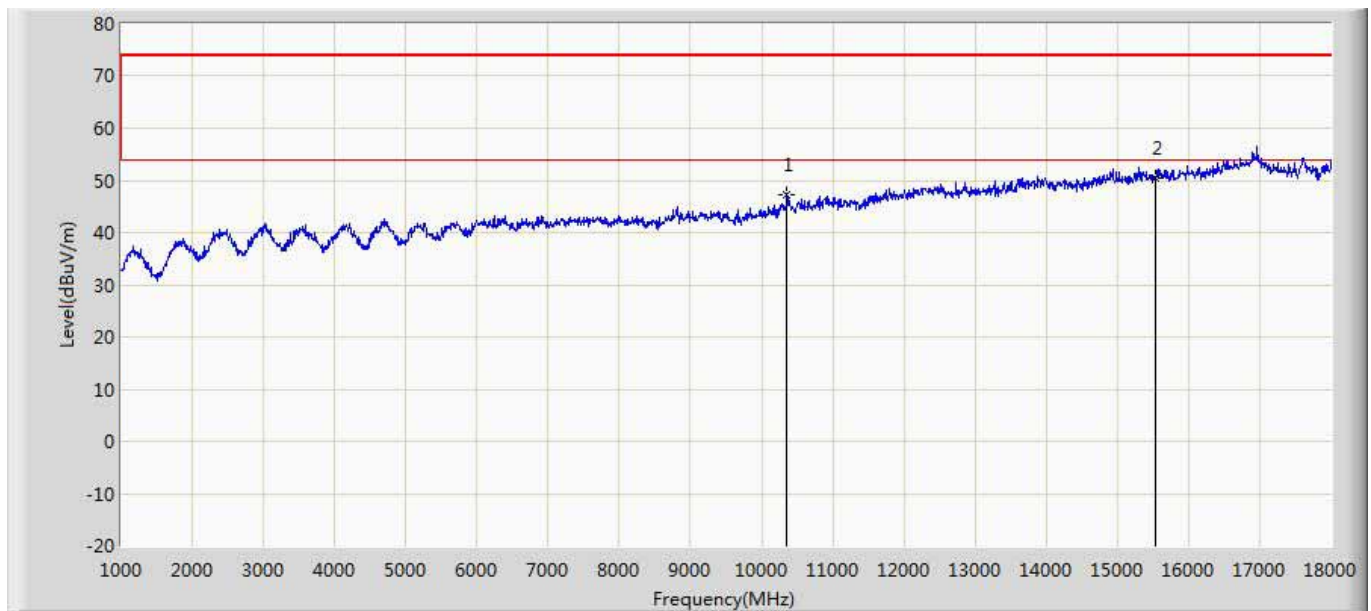
4.6. Test Result

Engineer: Simon	
Site: AC5	Time: 2017/06/05 - 10:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1:Transmit 5180MHz by 802.11a	



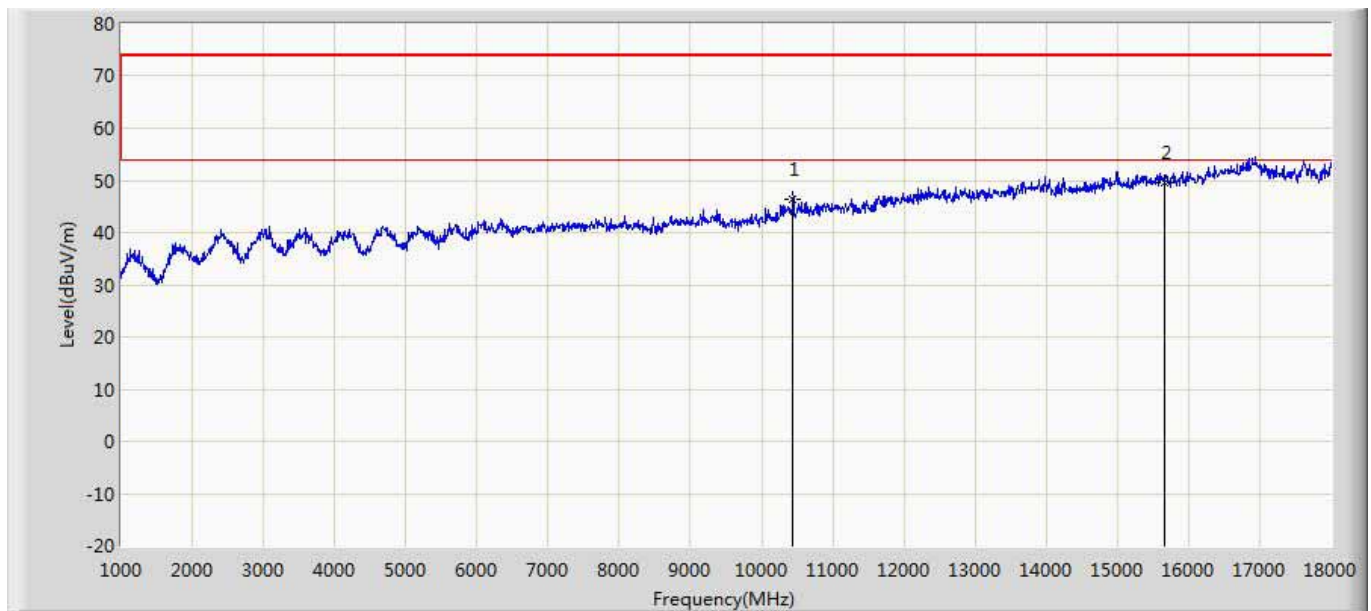
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10360.000	47.061	35.091	-26.939	74.000	11.970	PK
2	*	15540.000	50.596	32.809	-23.404	74.000	17.787	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/05 - 09:53
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1:Transmit 5180MHz by 802.11a	



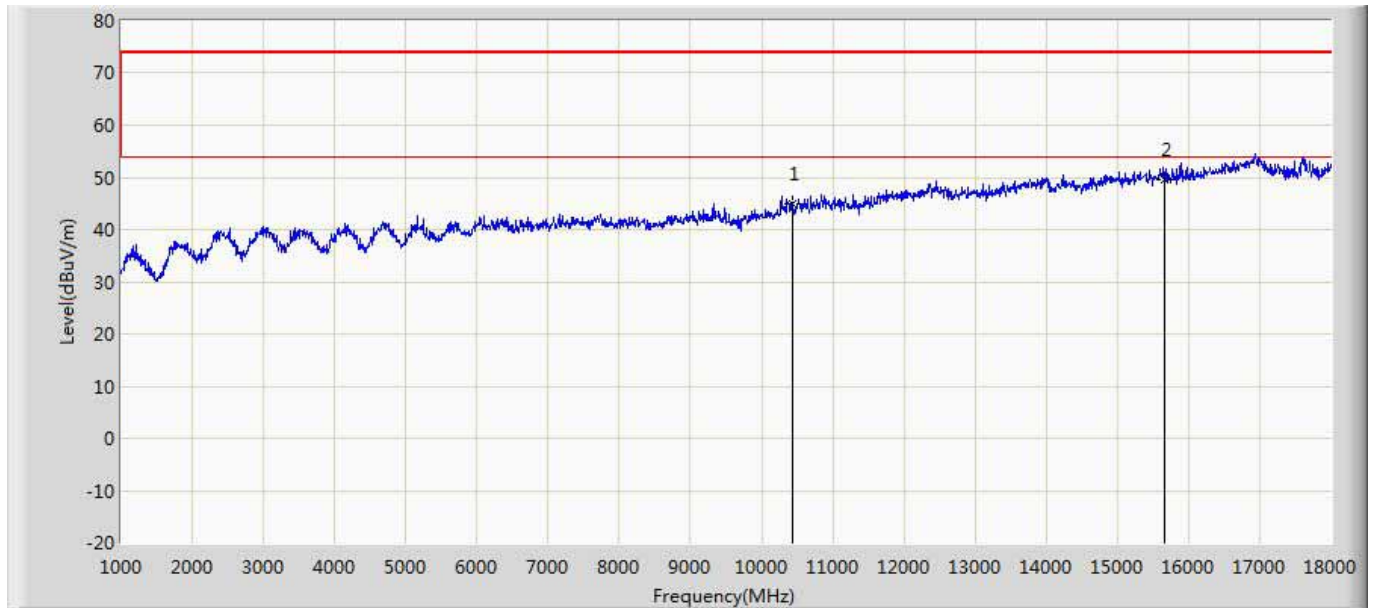
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10360.000	47.343	35.373	-26.657	74.000	11.970	PK
2	*	15540.000	50.338	32.551	-23.662	74.000	17.787	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/05 - 10:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1:Transmit 5220MHz by 802.11a	



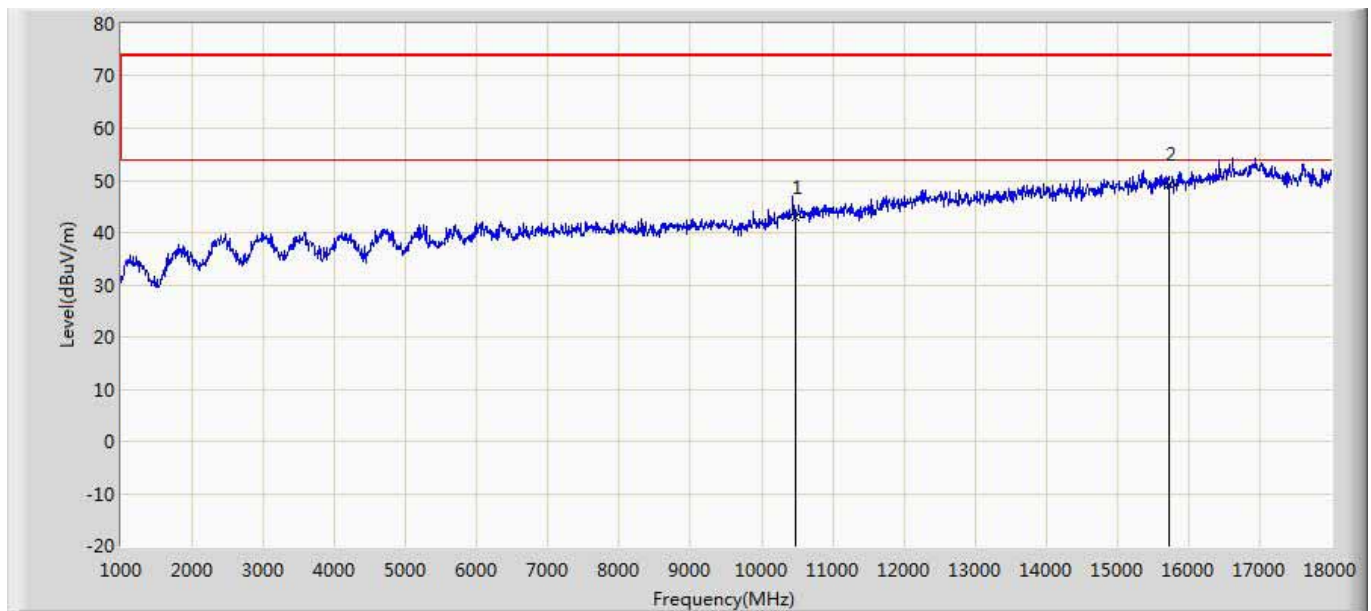
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10440.000	46.425	33.993	-27.575	74.000	12.432	PK
2	*	15660.000	49.616	31.370	-24.384	74.000	18.246	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/05 - 10:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1:Transmit 5220MHz by 802.11a	



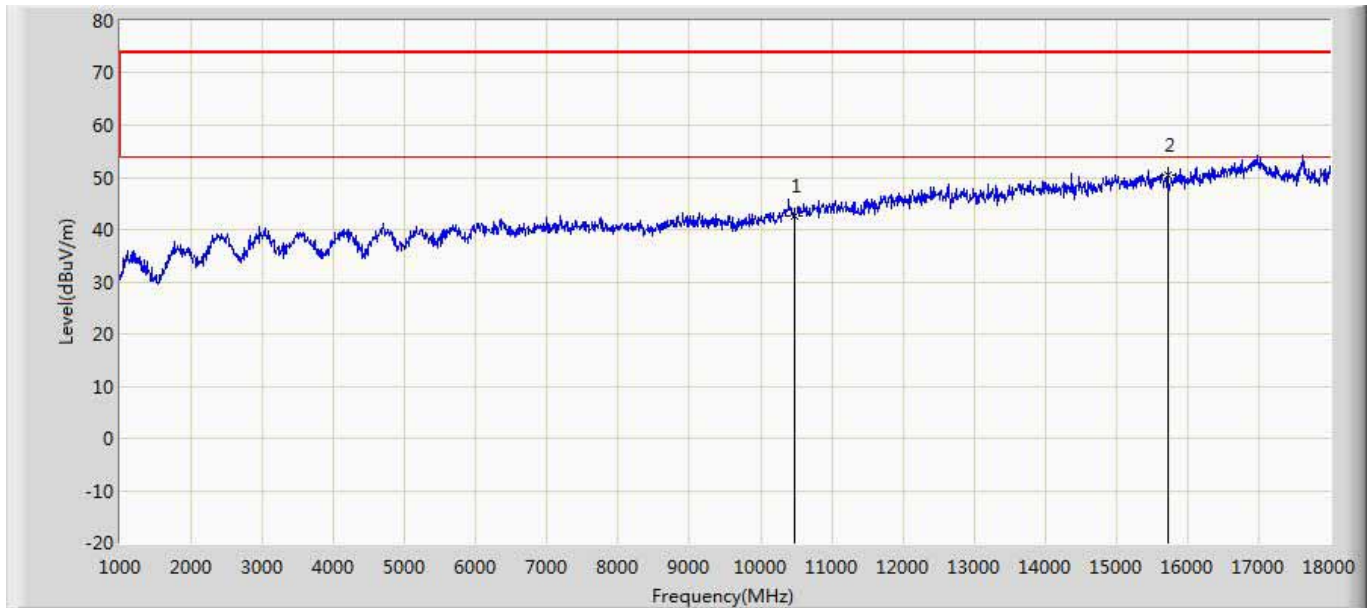
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10440.000	44.926	32.494	-29.074	74.000	12.432	PK
2	*	15660.000	49.452	31.206	-24.548	74.000	18.246	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/05 - 10:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1:Transmit 5240MHz by 802.11a	



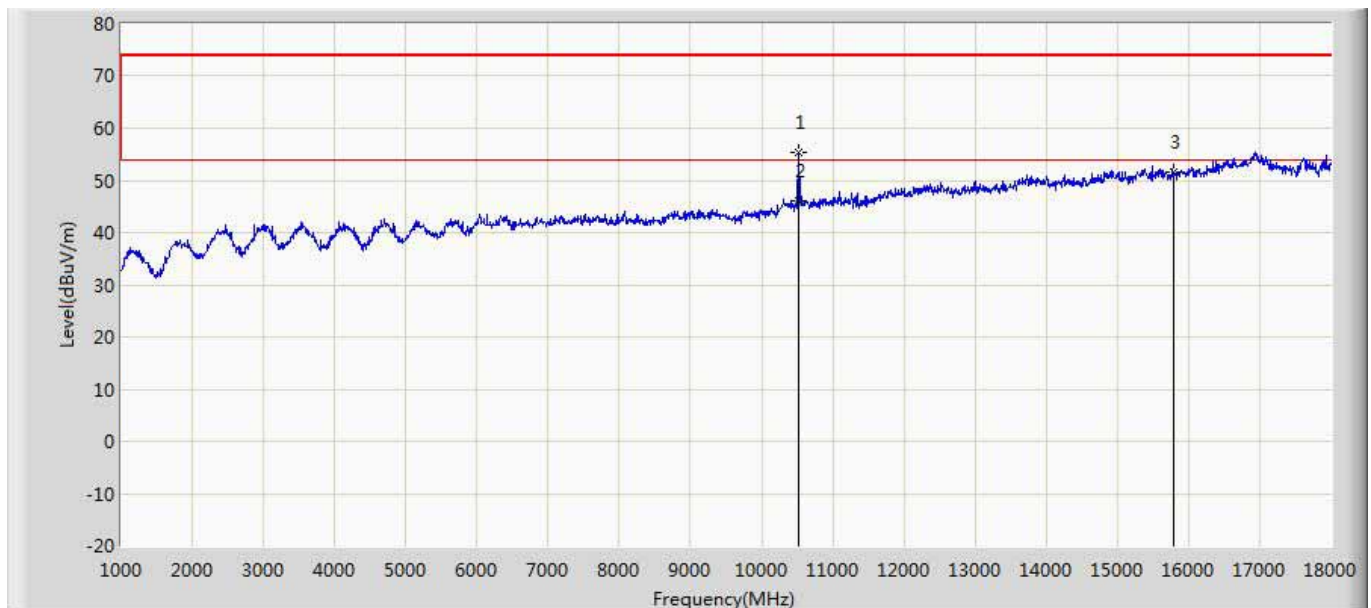
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10480.000	42.841	30.780	-31.159	74.000	12.061	PK
2	*	15720.000	49.147	31.023	-24.853	74.000	18.125	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/05 - 10:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1:Transmit 5240MHz by 802.11a	



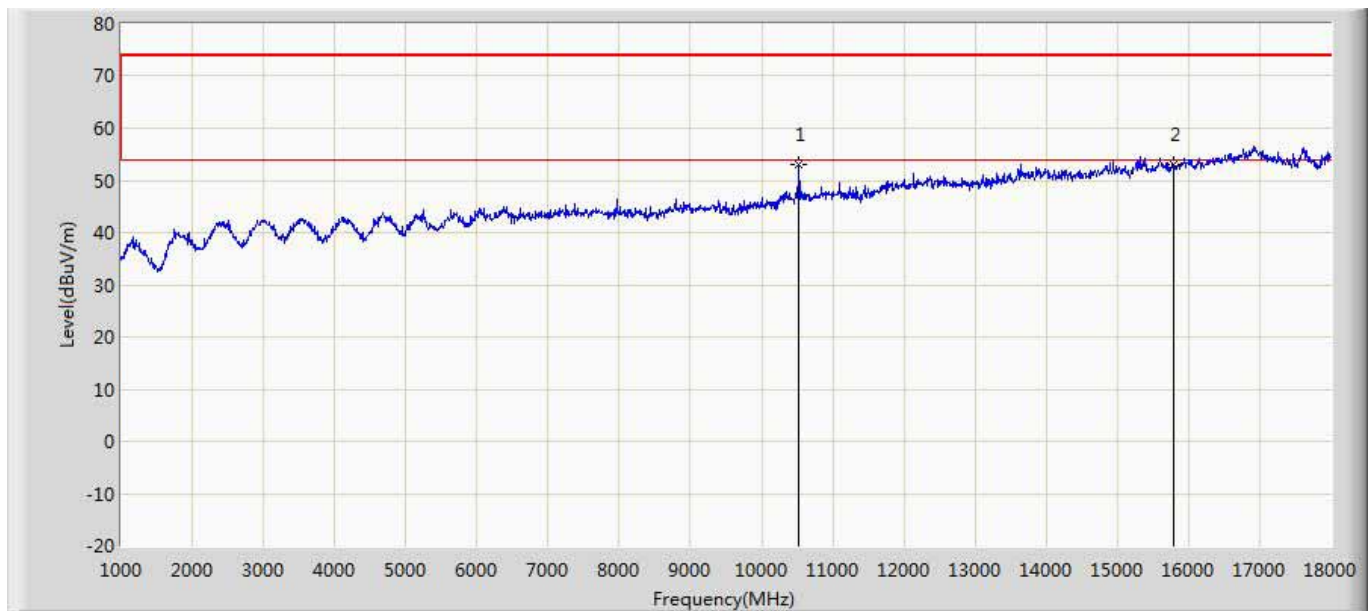
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10480.000	42.470	30.409	-31.530	74.000	12.061	PK
2	*	15720.000	50.454	32.330	-23.546	74.000	18.125	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/05 - 10:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1:Transmit 5260MHz by 802.11a	



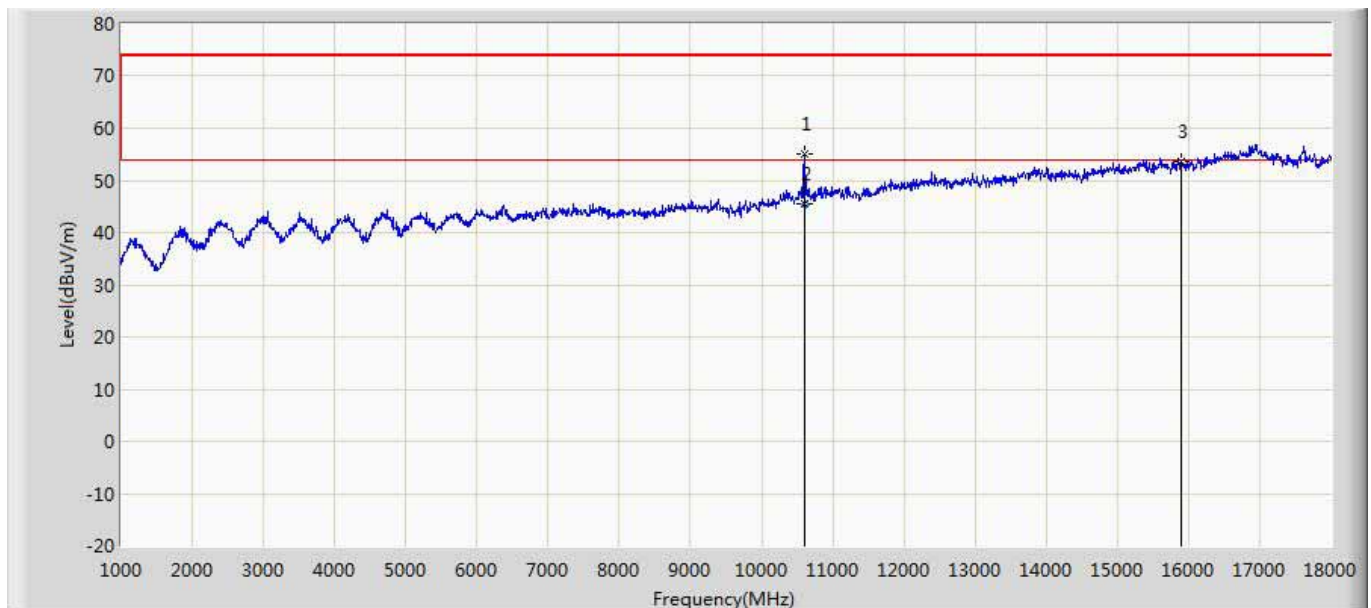
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10520.000	55.347	42.548	-18.653	74.000	12.799	PK
2	*	10520.000	45.943	33.144	-8.057	54.000	12.799	AV
3		15780.000	51.542	33.391	-22.458	74.000	18.151	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/05 - 10:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1:Transmit 5260MHz by 802.11a	



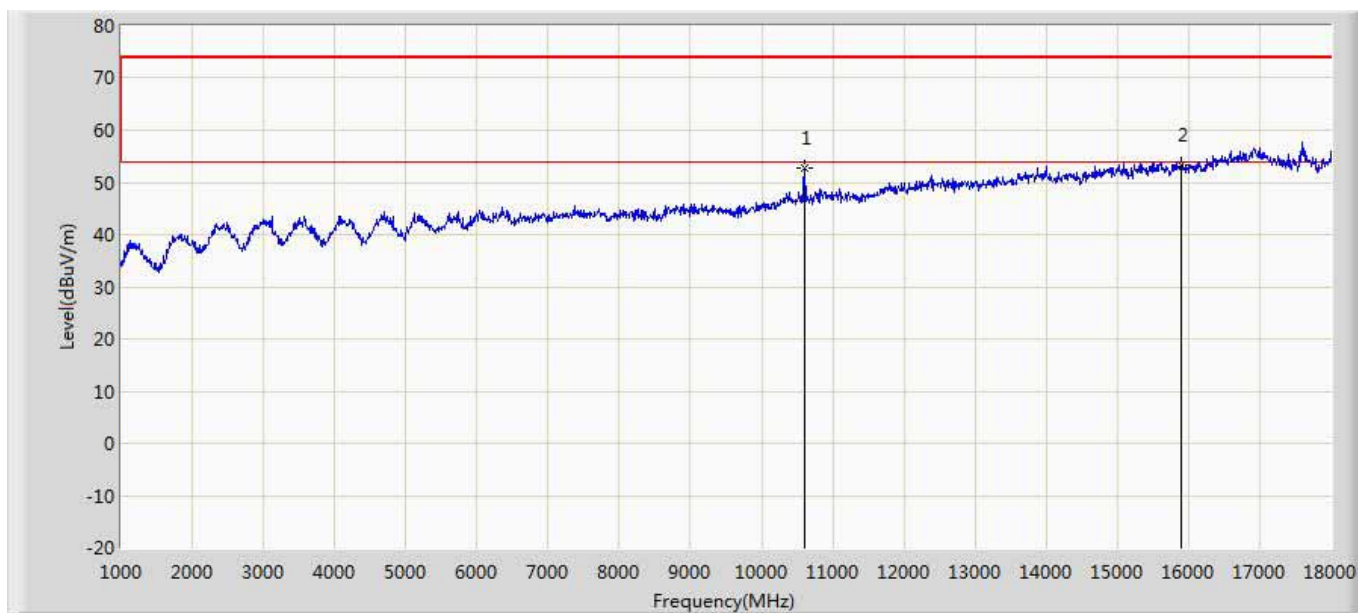
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10520.000	52.947	40.148	-21.053	74.000	12.799	PK
2	*	15780.000	52.970	34.819	-21.030	74.000	18.151	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/05 - 10:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1:Transmit 5300MHz by 802.11a	



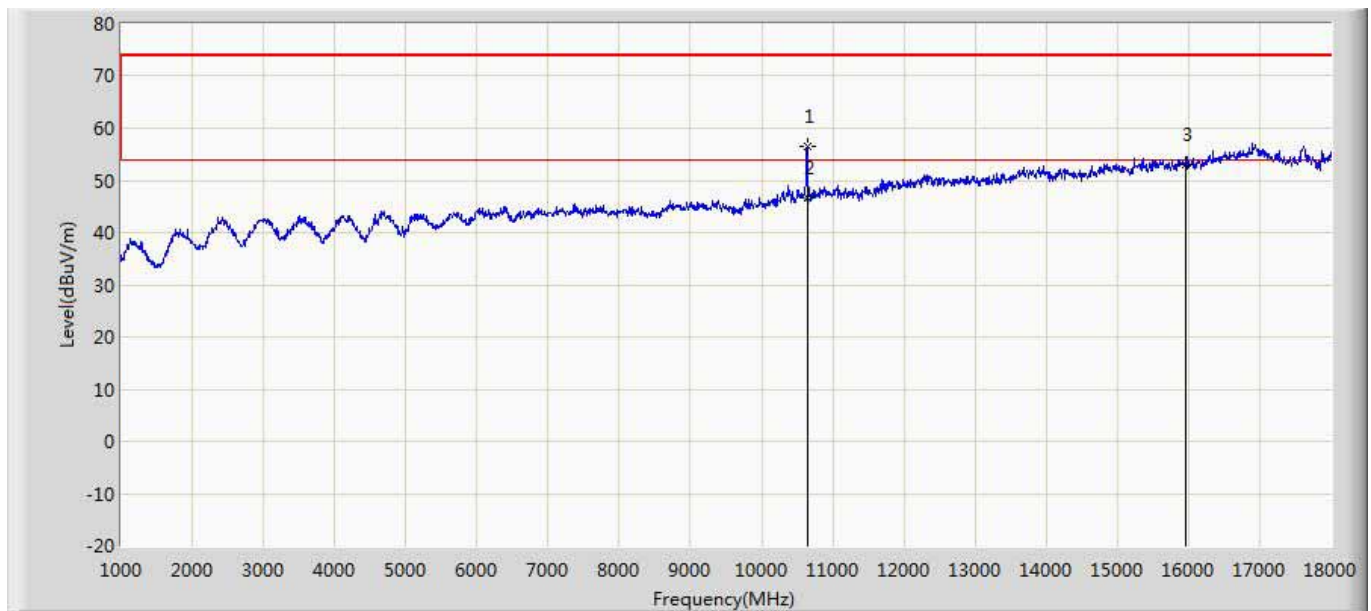
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10596.500	55.091	42.633	-18.909	74.000	12.458	PK
2	*	10600.000	45.415	32.974	-8.585	54.000	12.440	AV
3		15900.000	53.659	34.998	-20.341	74.000	18.661	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/05 - 10:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1:Transmit 5300MHz by 802.11a	



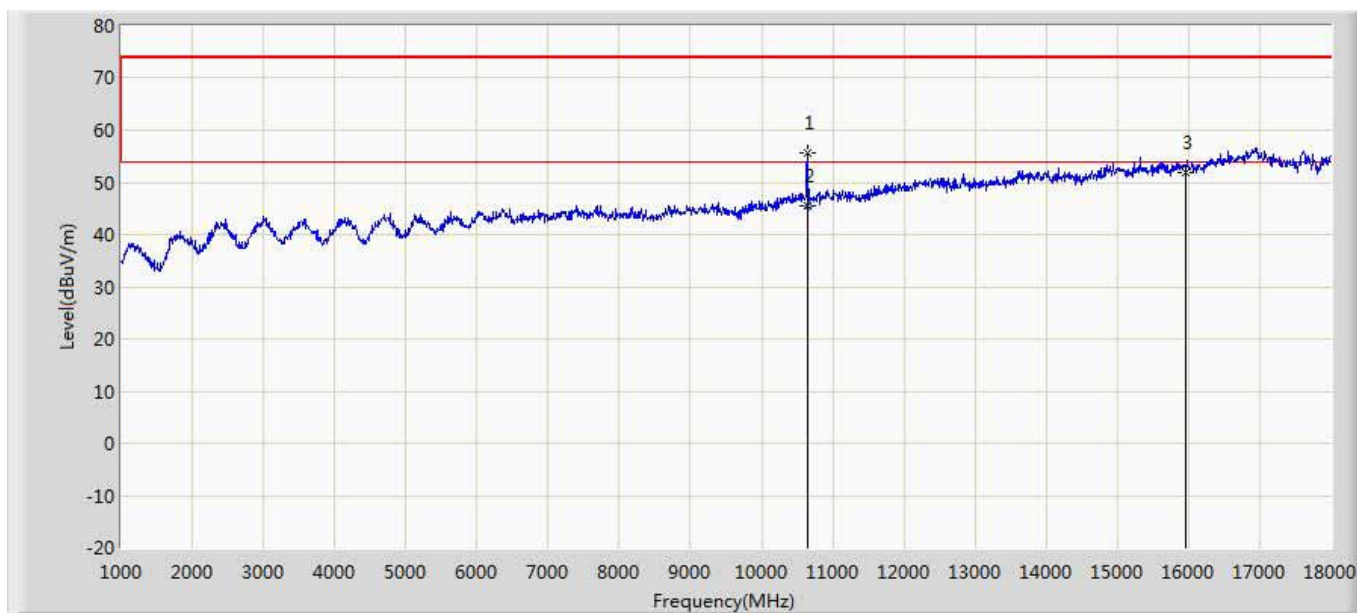
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10613.500	52.630	40.303	-21.370	74.000	12.326	PK
2	*	15900.000	53.331	34.670	-20.669	74.000	18.661	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/05 - 10:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1:Transmit 5320MHz by 802.11a	



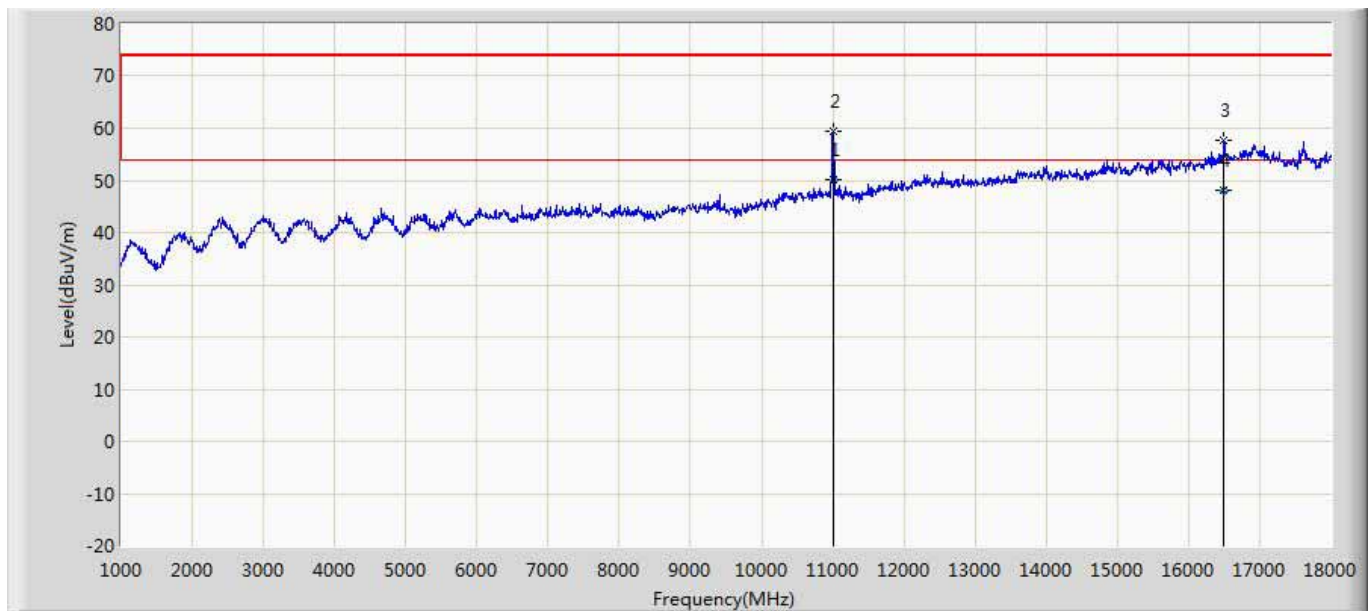
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10639.000	56.579	44.049	-17.421	74.000	12.530	PK
2	*	10640.000	46.808	34.264	-7.192	54.000	12.544	AV
3		15960.000	53.148	35.487	-20.852	74.000	17.661	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/05 - 10:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1:Transmit 5320MHz by 802.11a	



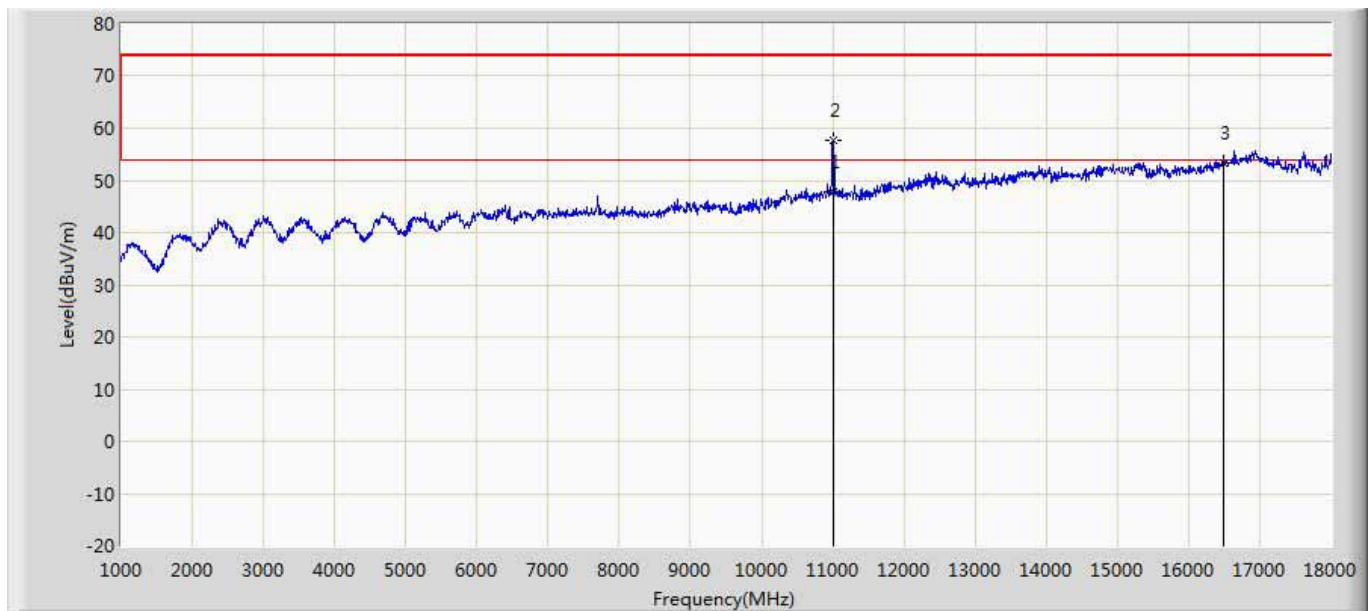
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10639.000	55.631	43.101	-18.369	74.000	12.530	PK
2	*	10640.000	45.387	32.843	-8.613	54.000	12.544	AV
3		15960.000	51.793	34.132	-22.207	74.000	17.661	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/05 - 10:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1:Transmit 5500MHz by 802.11a	



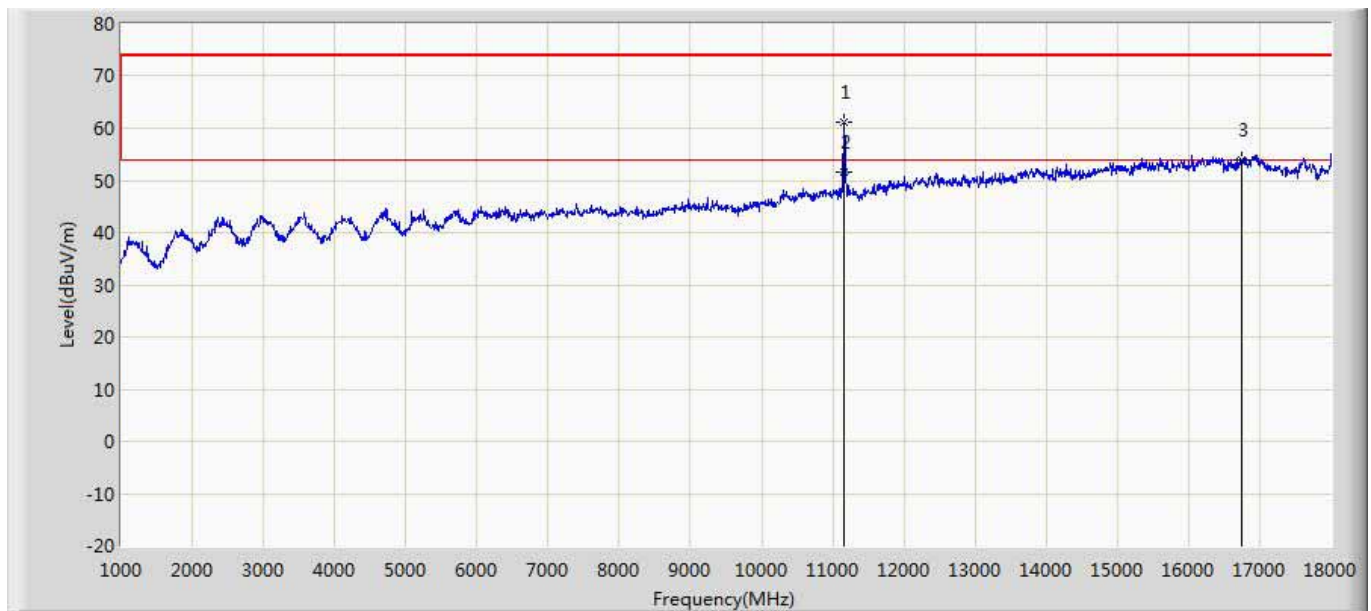
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11000.000	50.016	36.977	-3.984	54.000	13.039	AV
2		11004.500	59.413	46.080	-14.587	74.000	13.333	PK
3		16495.500	57.599	38.621	-16.401	74.000	18.978	PK
4		16500.000	48.223	29.234	-5.777	54.000	18.989	AV

Engineer: Simon	
Site: AC5	Time: 2017/06/05 - 10:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1:Transmit 5500MHz by 802.11a	



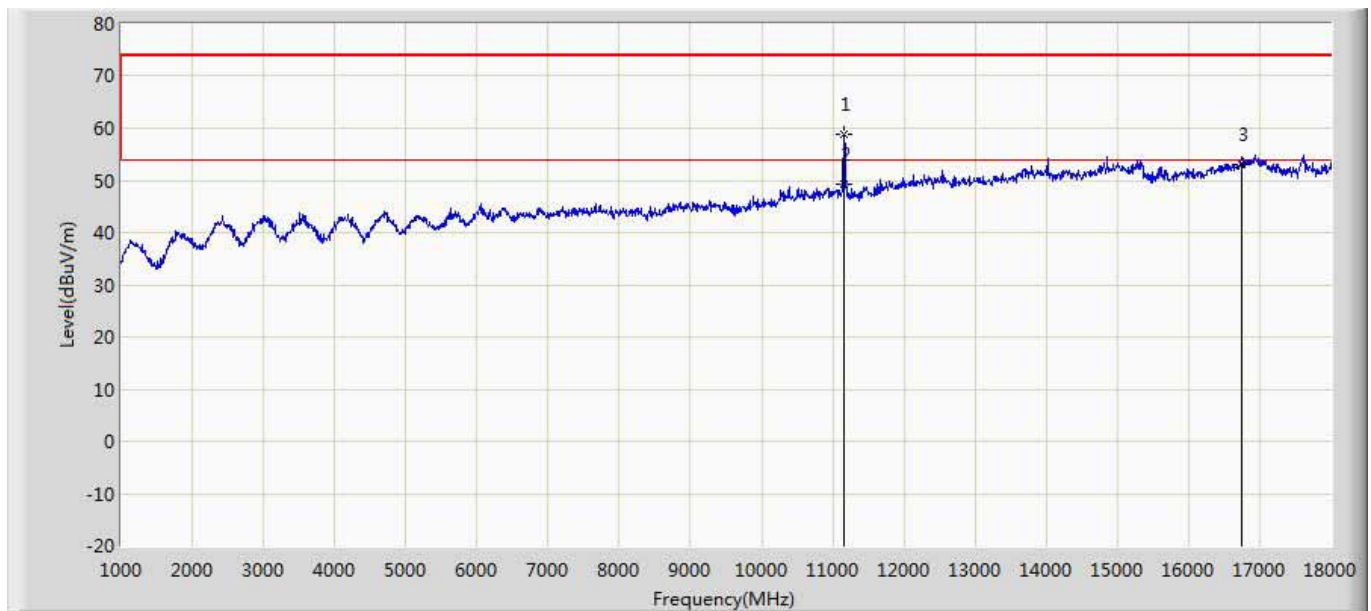
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11000.000	47.902	34.863	-6.098	54.000	13.039	AV
2		11004.500	57.680	44.347	-16.320	74.000	13.333	PK
3		16500.000	53.287	34.298	-20.713	74.000	18.989	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/05 - 11:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1:Transmit 5580MHz by 802.11a	



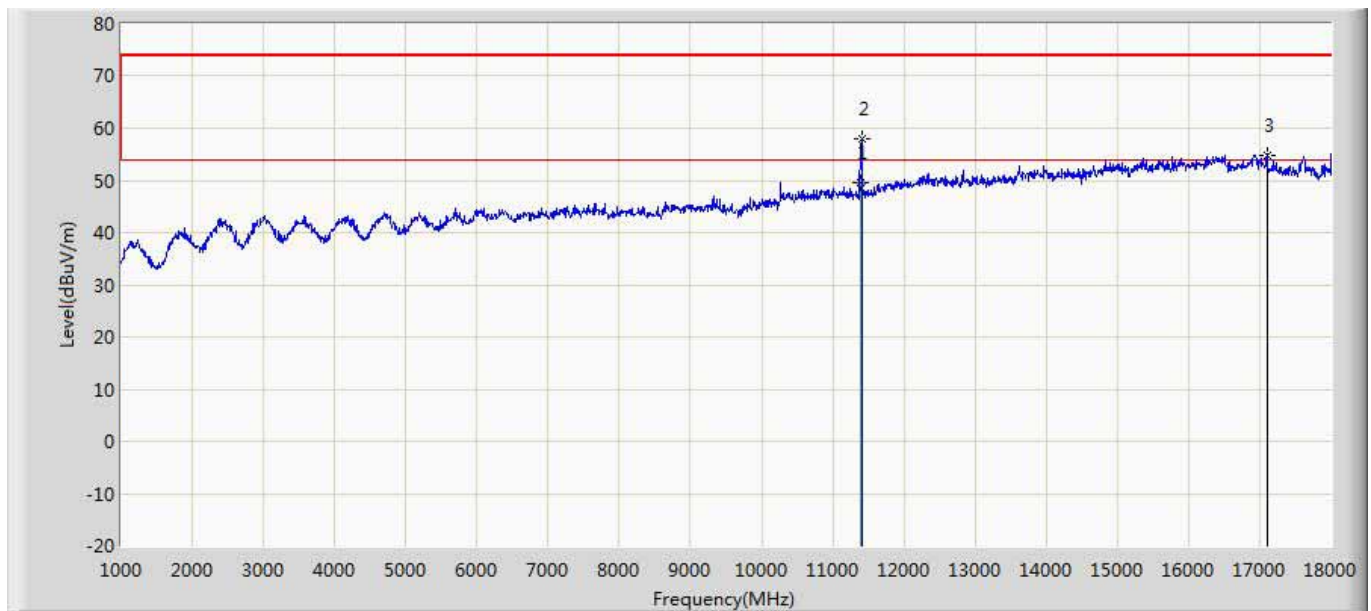
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11157.500	61.110	47.668	-12.890	74.000	13.442	PK
2	*	11160.000	51.602	38.167	-2.398	54.000	13.436	AV
3		16740.000	53.825	34.549	-20.175	74.000	19.276	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/05 - 11:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1:Transmit 5580MHz by 802.11a	



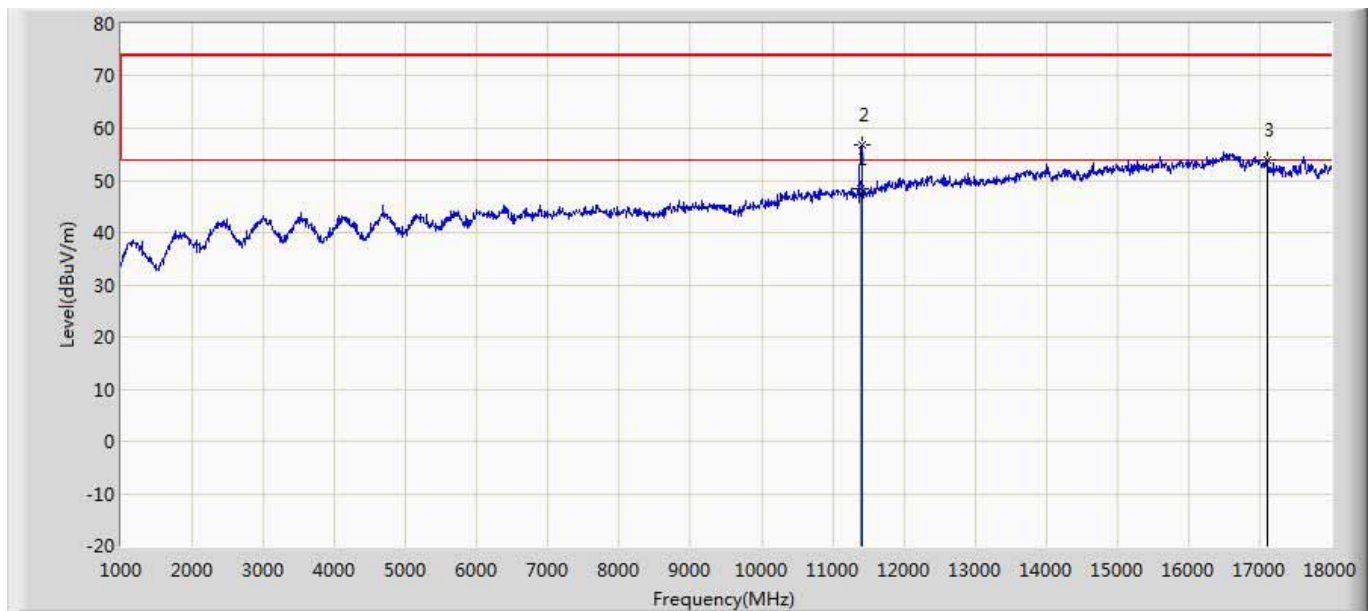
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11157.500	58.783	45.340	-15.217	74.000	13.442	PK
2	*	11160.000	49.396	35.961	-4.604	54.000	13.436	AV
3		16740.000	53.178	33.902	-20.822	74.000	19.276	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/05 - 11:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1:Transmit 5700MHz by 802.11a	



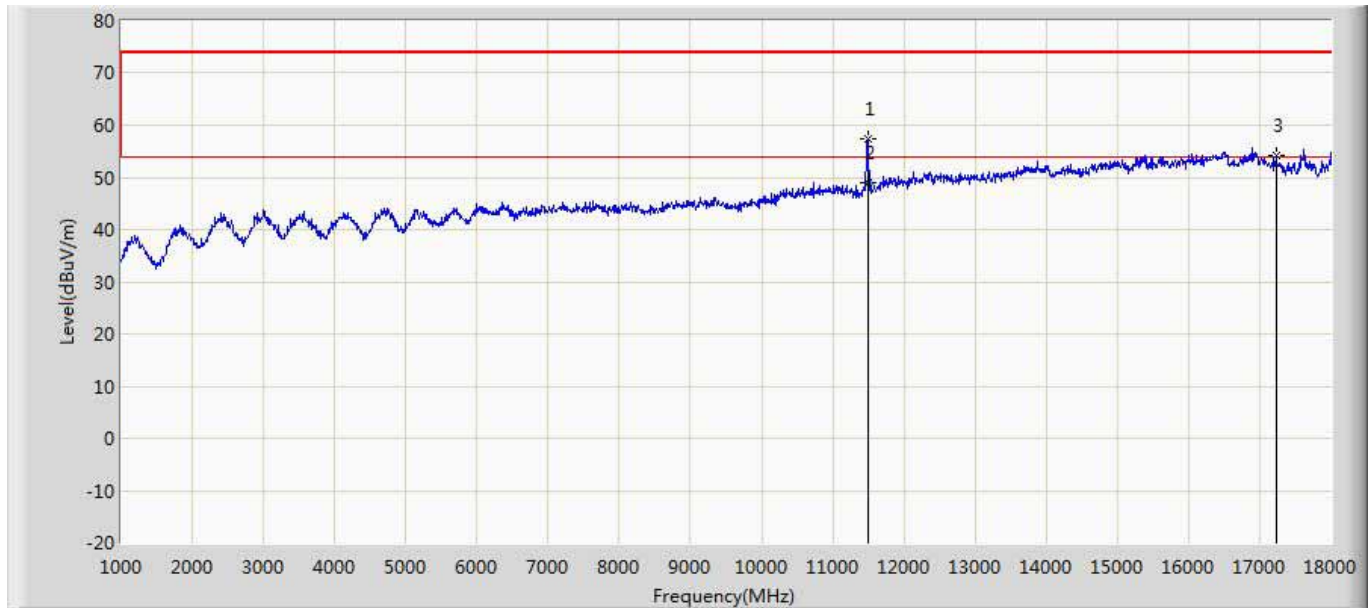
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11400.000	49.598	35.642	-4.402	54.000	13.957	AV
2		11404.000	57.871	44.042	-16.129	74.000	13.829	PK
3		17100.000	54.849	34.913	-19.151	74.000	19.936	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/05 - 11:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1:Transmit 5700MHz by 802.11a	



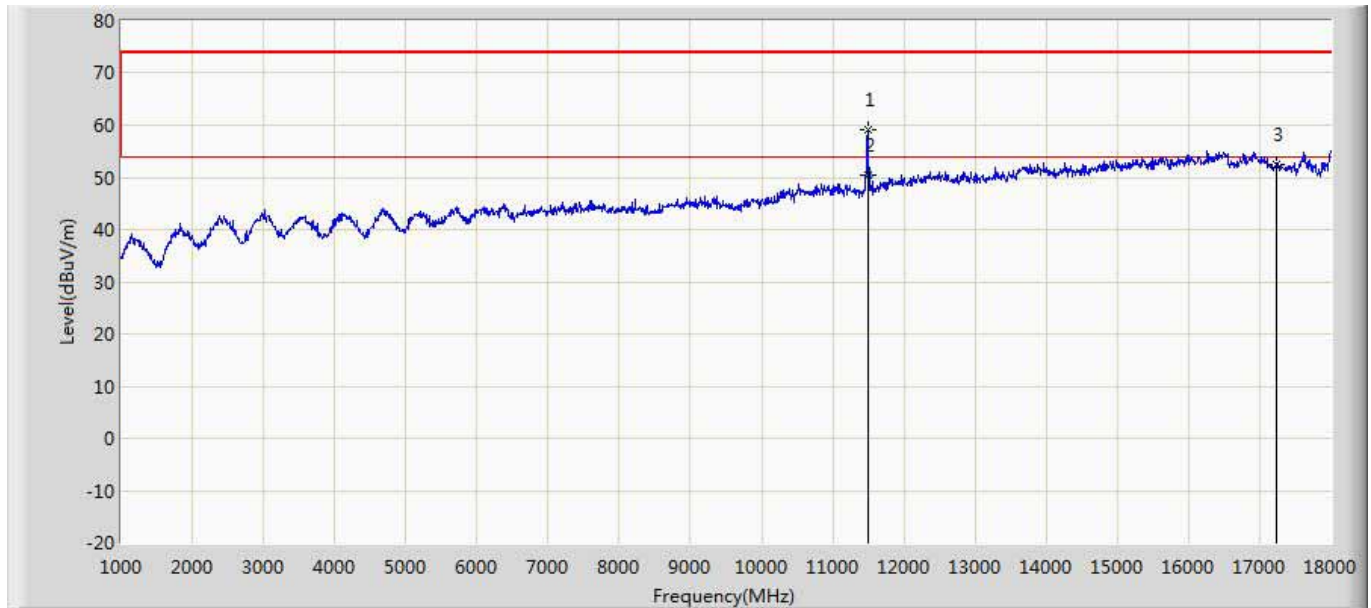
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11400.000	48.438	34.482	-5.562	54.000	13.957	AV
2		11404.000	56.880	43.051	-17.120	74.000	13.829	PK
3		17100.000	53.875	33.939	-20.125	74.000	19.936	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/05 - 11:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1:Transmit 5745MHz by 802.11a	



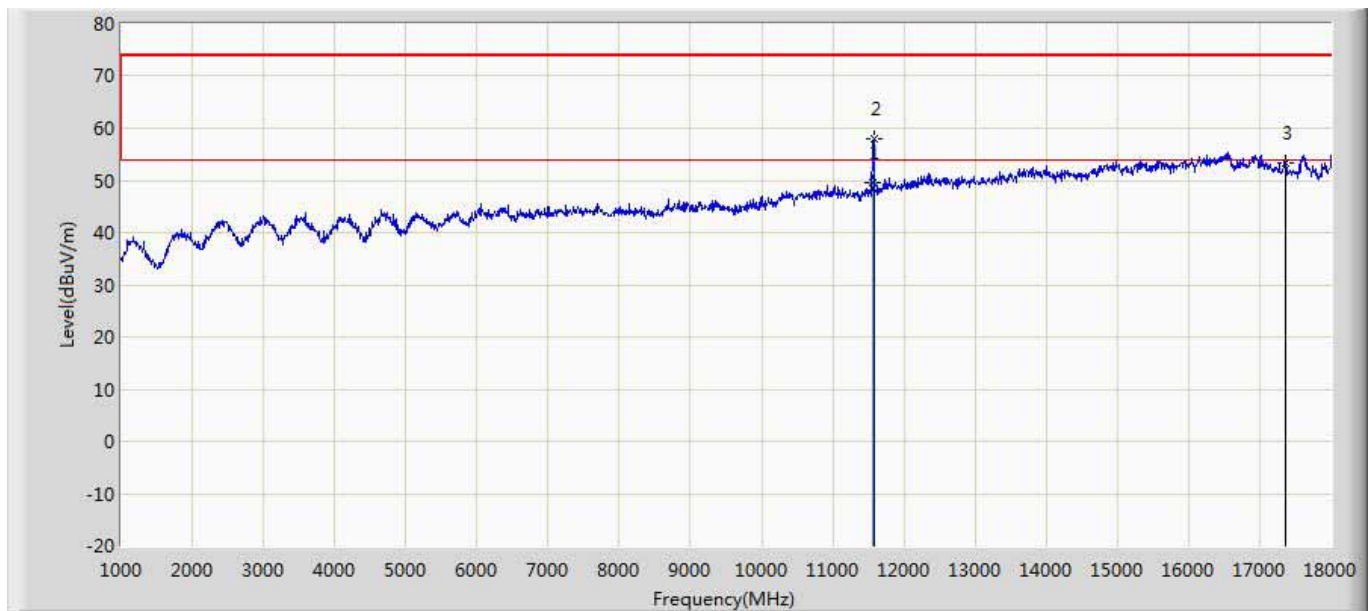
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11489.000	57.363	43.713	-16.637	74.000	13.650	PK
2	*	11490.000	48.904	35.203	-5.096	54.000	13.700	AV
3		17235.000	54.092	34.102	-19.908	74.000	19.990	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/05 - 11:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1:Transmit 5745MHz by 802.11a	



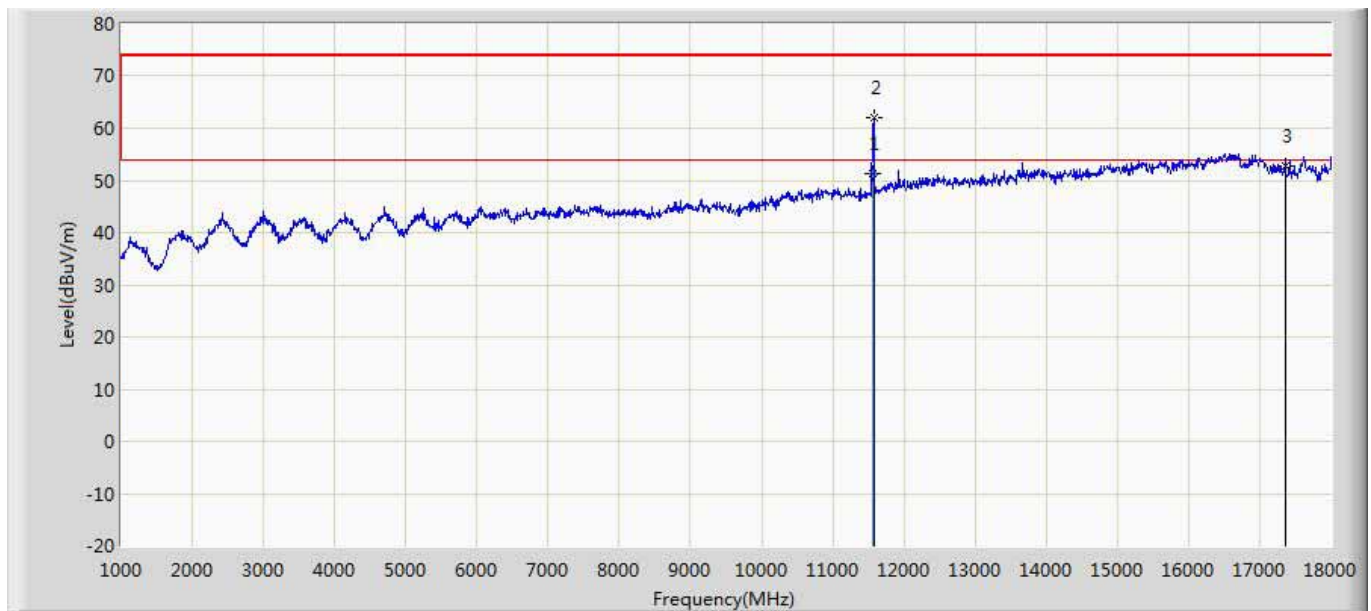
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11489.000	59.082	45.432	-14.918	74.000	13.650	PK
2	*	11490.000	50.575	36.874	-3.425	54.000	13.700	AV
3		17235.000	52.444	32.454	-21.556	74.000	19.990	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/05 - 11:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1:Transmit 5785MHz by 802.11a	



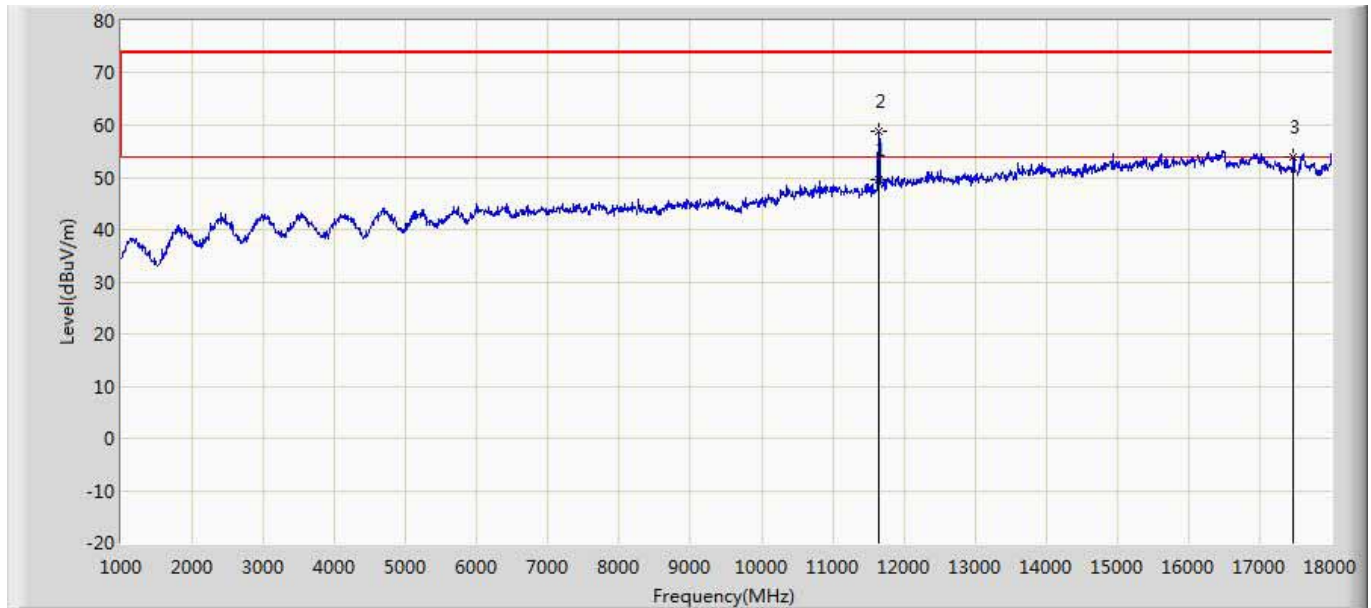
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11570.000	49.535	35.478	-4.465	54.000	14.057	AV
2		11574.000	58.072	44.022	-15.928	74.000	14.050	PK
3		17355.000	53.376	34.054	-20.624	74.000	19.322	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/05 - 11:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1:Transmit 5785MHz by 802.11a	



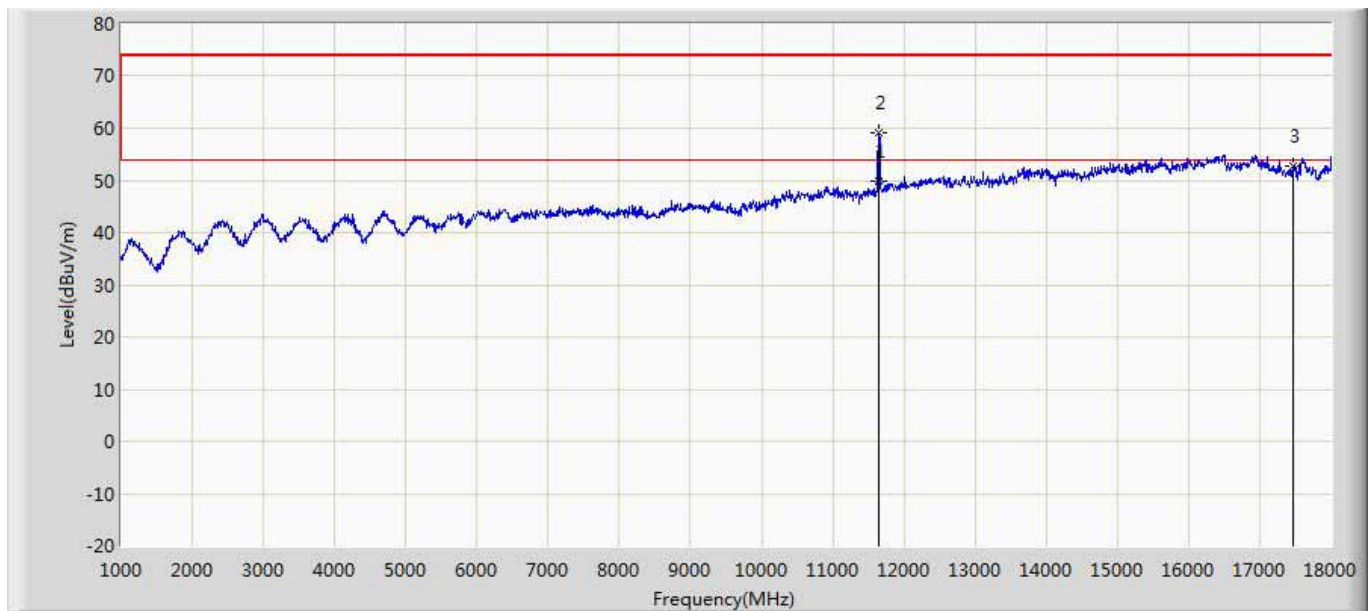
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11570.000	51.213	37.156	-2.787	54.000	14.057	AV
2		11574.000	62.108	48.058	-11.892	74.000	14.050	PK
3		17355.000	52.657	33.335	-21.343	74.000	19.322	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/05 - 11:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1:Transmit 5825MHz by 802.11a	



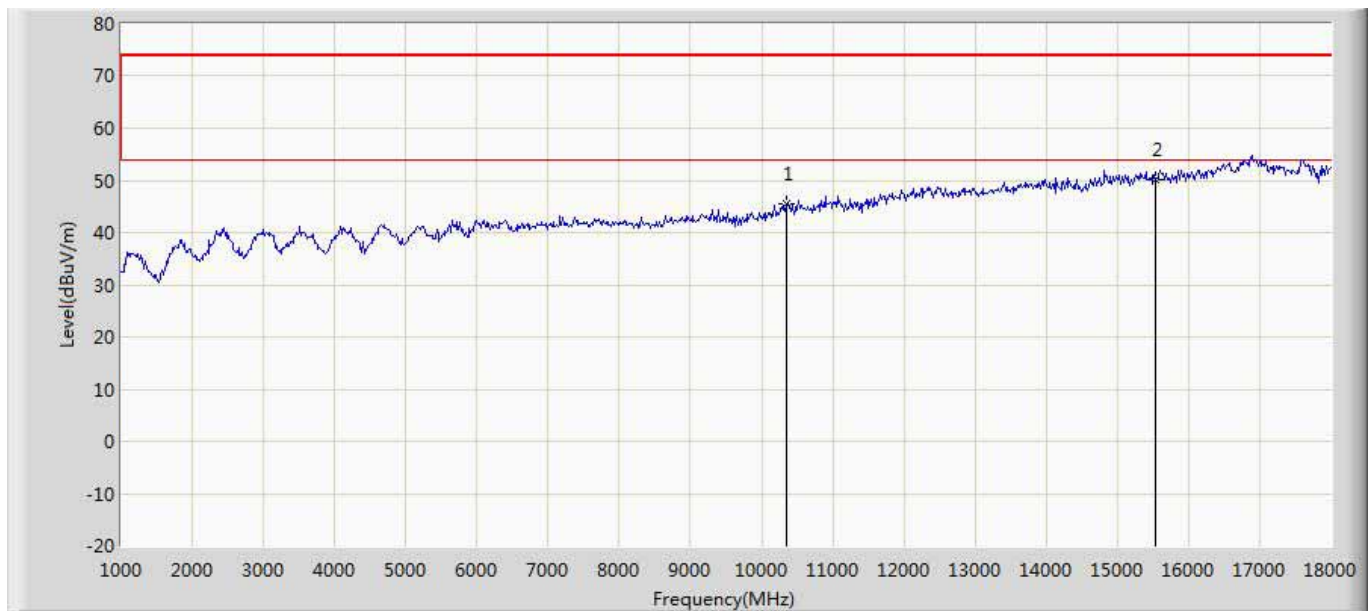
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11650.000	49.475	35.124	-4.525	54.000	14.352	AV
2		11650.500	58.865	44.522	-15.135	74.000	14.343	PK
3		17475.000	53.791	34.250	-20.209	74.000	19.541	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/05 - 11:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1:Transmit 5825MHz by 802.11a	



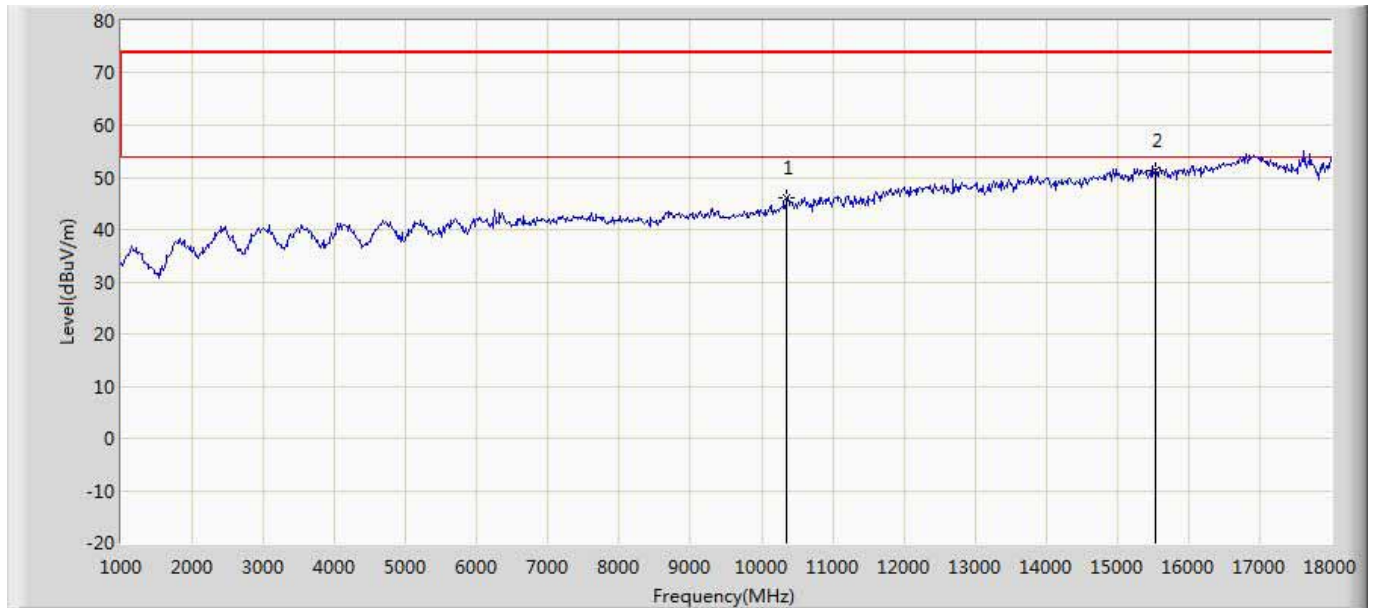
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11650.000	49.718	35.367	-4.282	54.000	14.352	AV
2		11650.500	59.223	44.880	-14.777	74.000	14.343	PK
3		17475.000	52.693	33.152	-21.307	74.000	19.541	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/09 - 10:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 2:Transmit 5180MHz by 802.11n20	



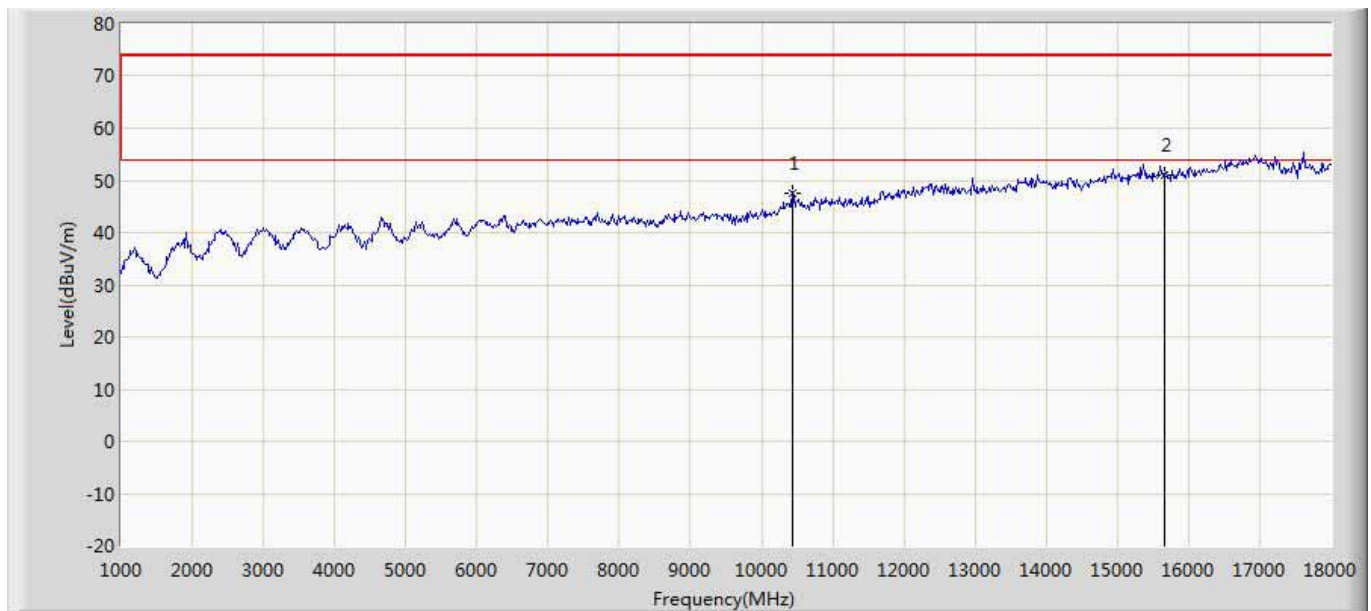
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10360.000	45.534	33.564	-28.466	74.000	11.970	PK
2	*	15540.000	50.221	32.434	-23.779	74.000	17.787	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/09 - 10:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 2:Transmit 5180MHz by 802.11n20	



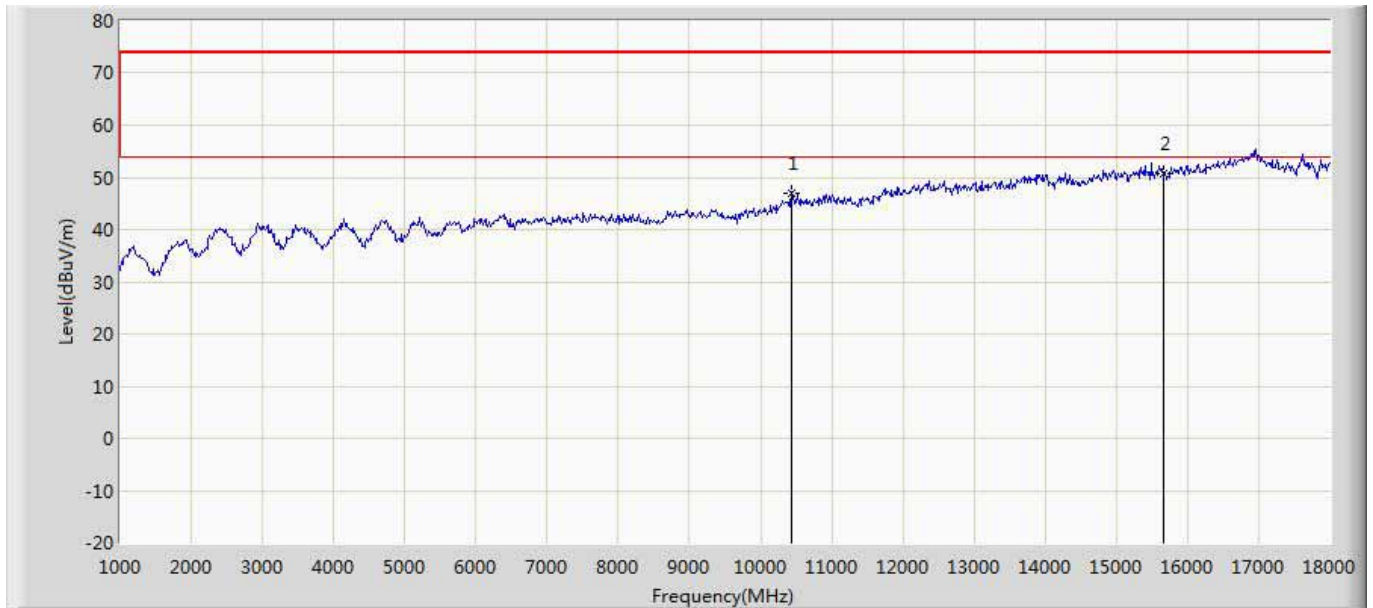
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10360.000	46.051	34.081	-27.949	74.000	11.970	PK
2	*	15540.000	51.306	33.519	-22.694	74.000	17.787	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/09 - 10:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 2:Transmit 5220MHz by 802.11n20	



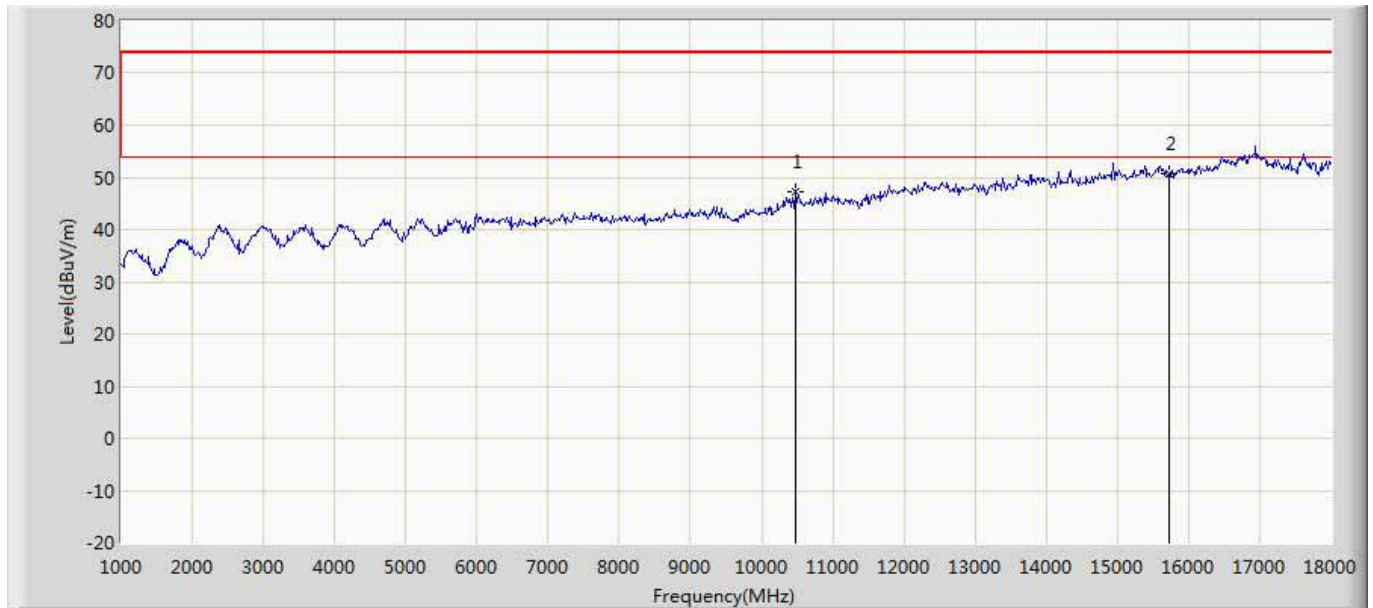
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10440.000	47.477	35.045	-26.523	74.000	12.432	PK
2	*	15660.000	51.081	32.835	-22.919	74.000	18.246	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/09 - 10:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 2:Transmit 5220MHz by 802.11n20	



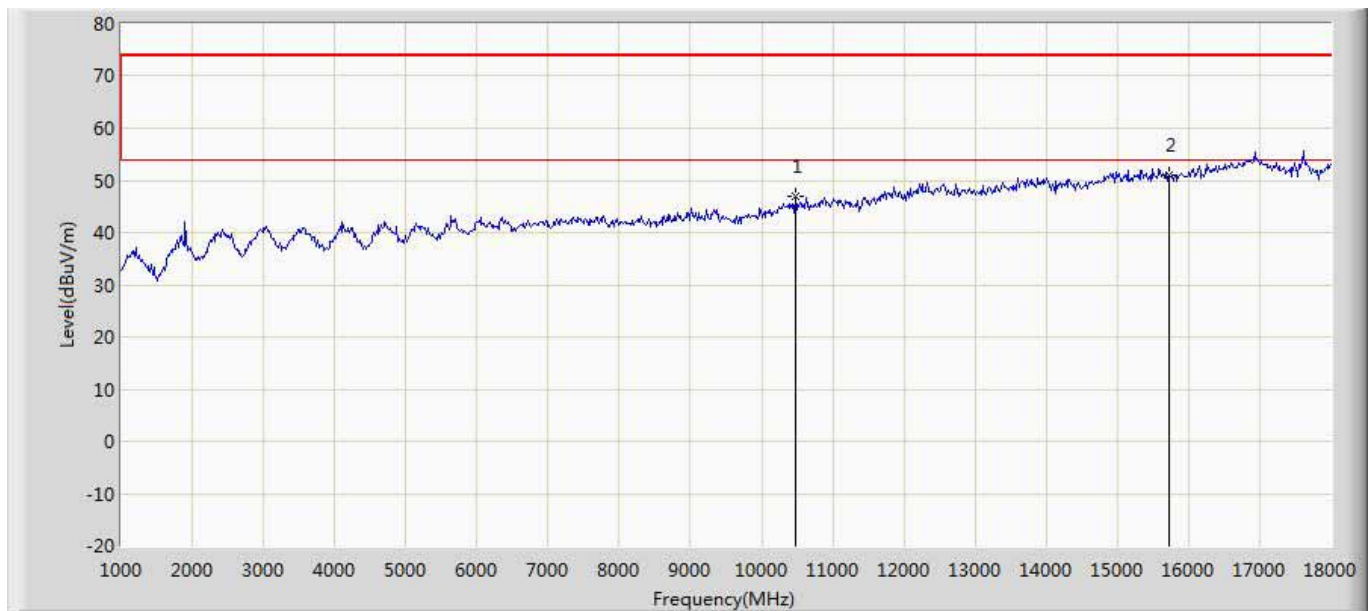
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10440.000	47.080	34.648	-26.920	74.000	12.432	PK
2	*	15660.000	50.692	32.446	-23.308	74.000	18.246	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/09 - 10:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 2:Transmit 5240MHz by 802.11n20	



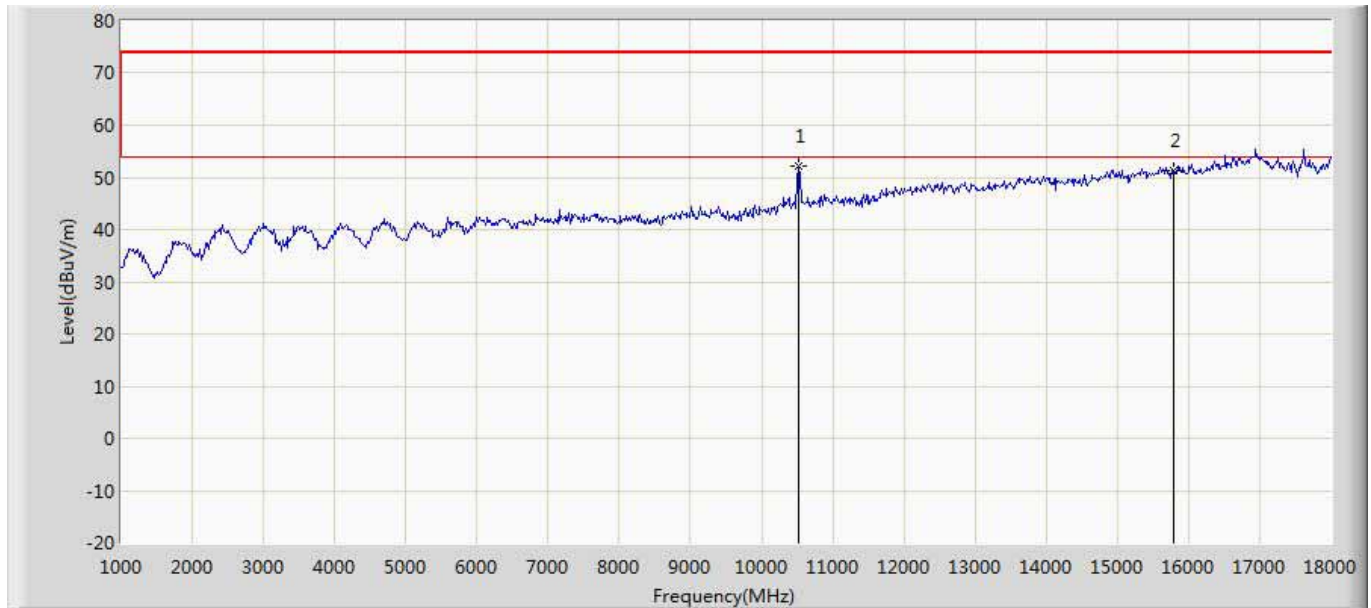
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10480.000	47.276	35.215	-26.724	74.000	12.061	PK
2	*	15720.000	50.719	32.595	-23.281	74.000	18.125	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/09 - 10:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 2:Transmit 5240MHz by 802.11n20	



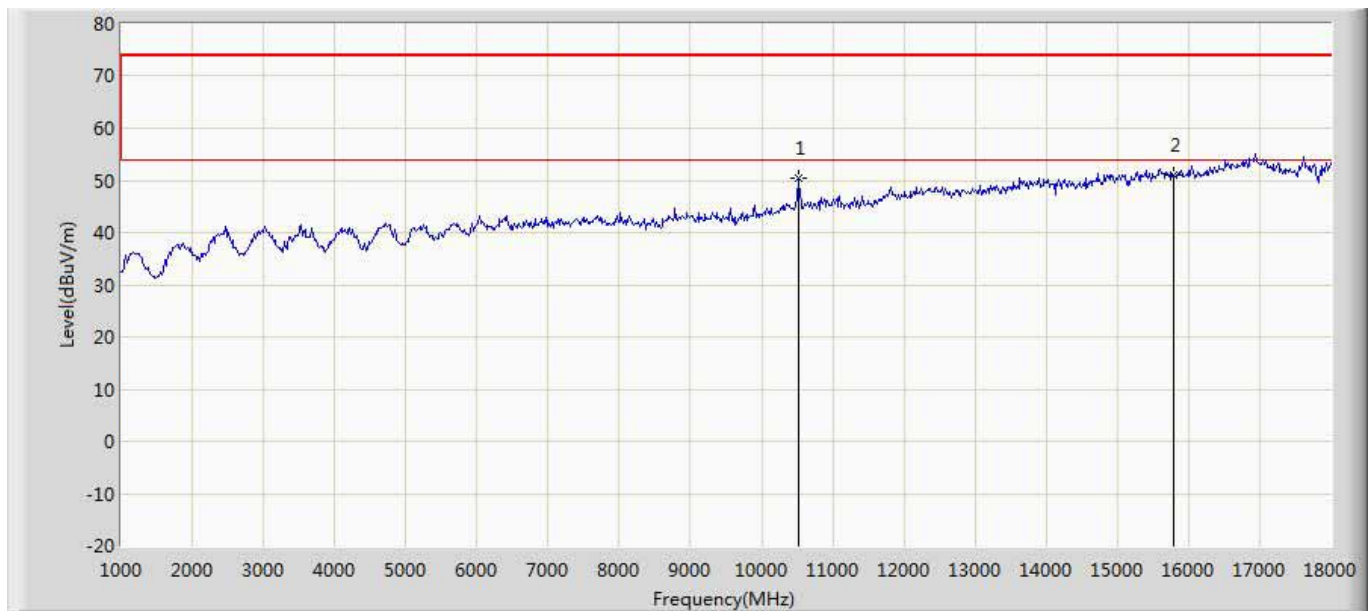
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10480.000	47.023	34.962	-26.977	74.000	12.061	PK
2	*	15720.000	50.977	32.853	-23.023	74.000	18.125	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/09 - 10:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 2:Transmit 5260MHz by 802.11n20	



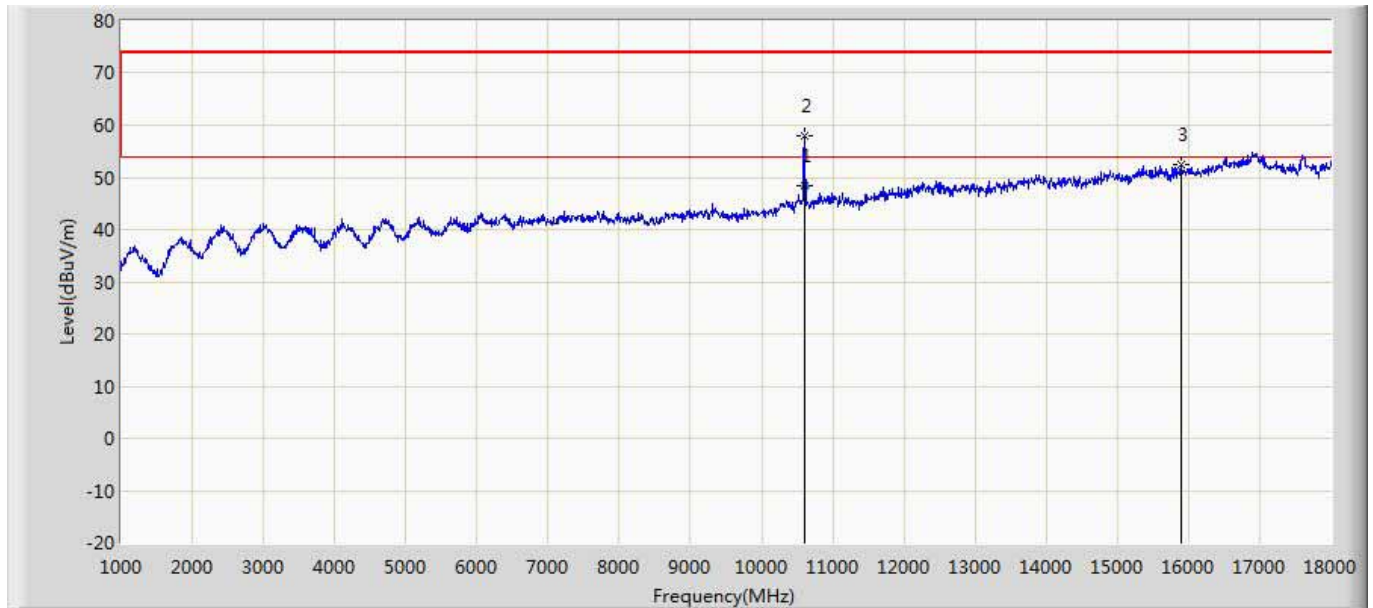
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10520.000	52.172	39.373	-21.828	74.000	12.799	PK
2		15780.000	51.180	33.029	-22.820	74.000	18.151	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/09 - 10:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 2:Transmit 5260MHz by 802.11n20	



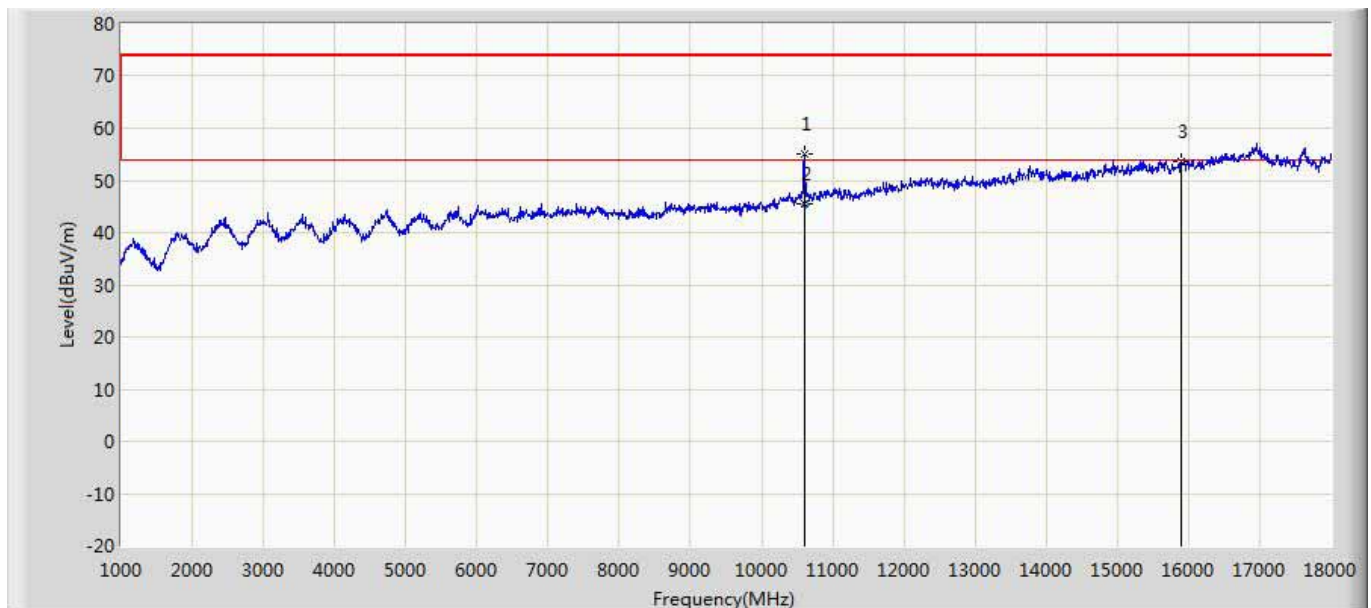
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10520.000	50.360	37.561	-23.640	74.000	12.799	PK
2	*	15780.000	51.089	32.938	-22.911	74.000	18.151	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 10:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 2:Transmit 5300MHz by 802.11n20	



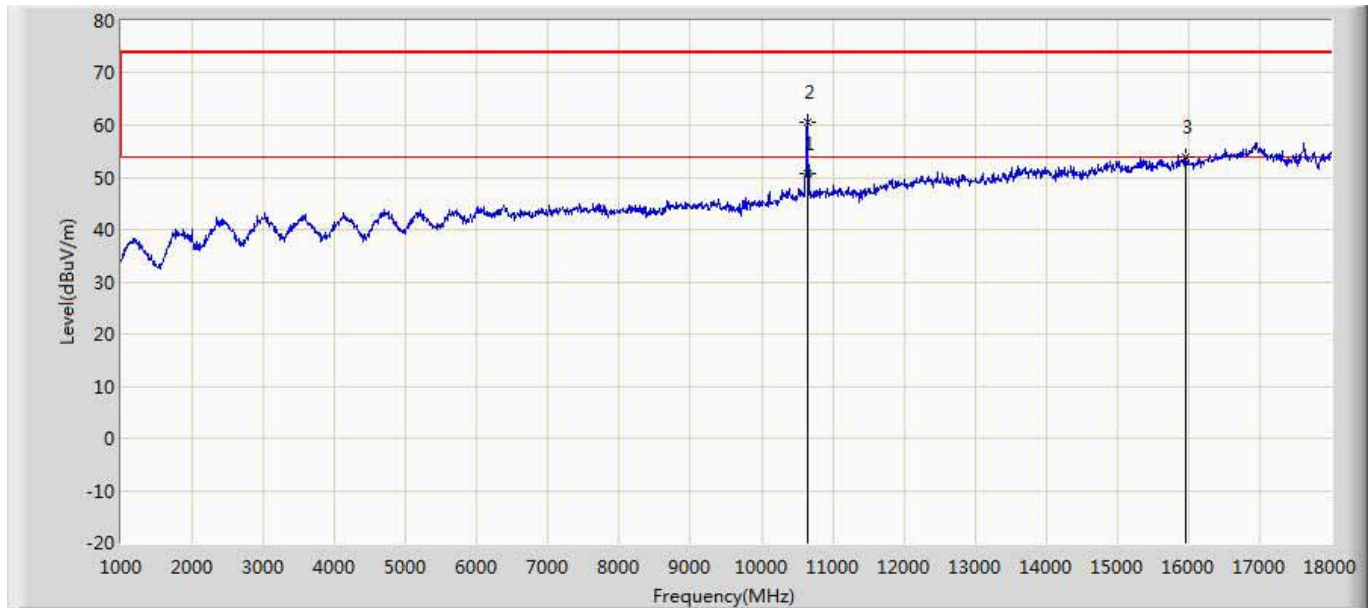
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10600.000	48.476	36.035	-5.524	54.000	12.440	AV
2		10605.000	57.966	45.550	-16.034	74.000	12.416	PK
3		15900.000	52.451	33.790	-21.549	74.000	18.661	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 10:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 2:Transmit 5300MHz by 802.11n20	



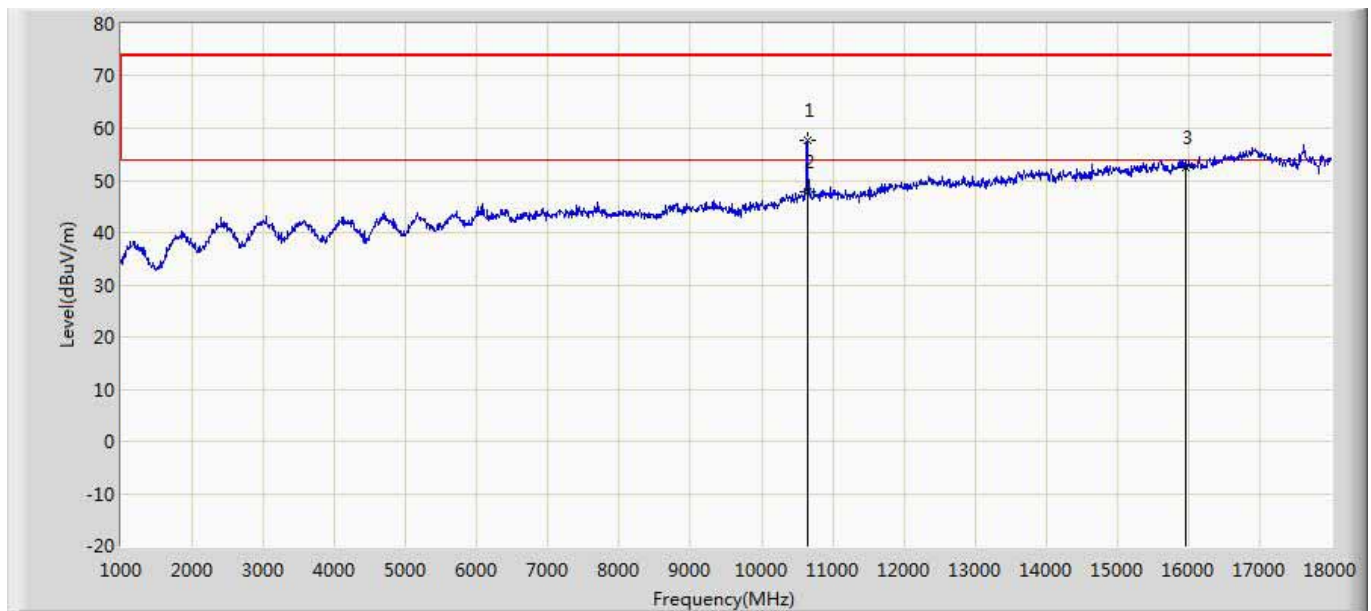
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10596.500	54.942	42.484	-19.058	74.000	12.458	PK
2	*	10600.000	45.588	33.147	-8.412	54.000	12.440	AV
3		15900.000	53.582	34.921	-20.418	74.000	18.661	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 10:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 2:Transmit 5320MHz by 802.11n20	



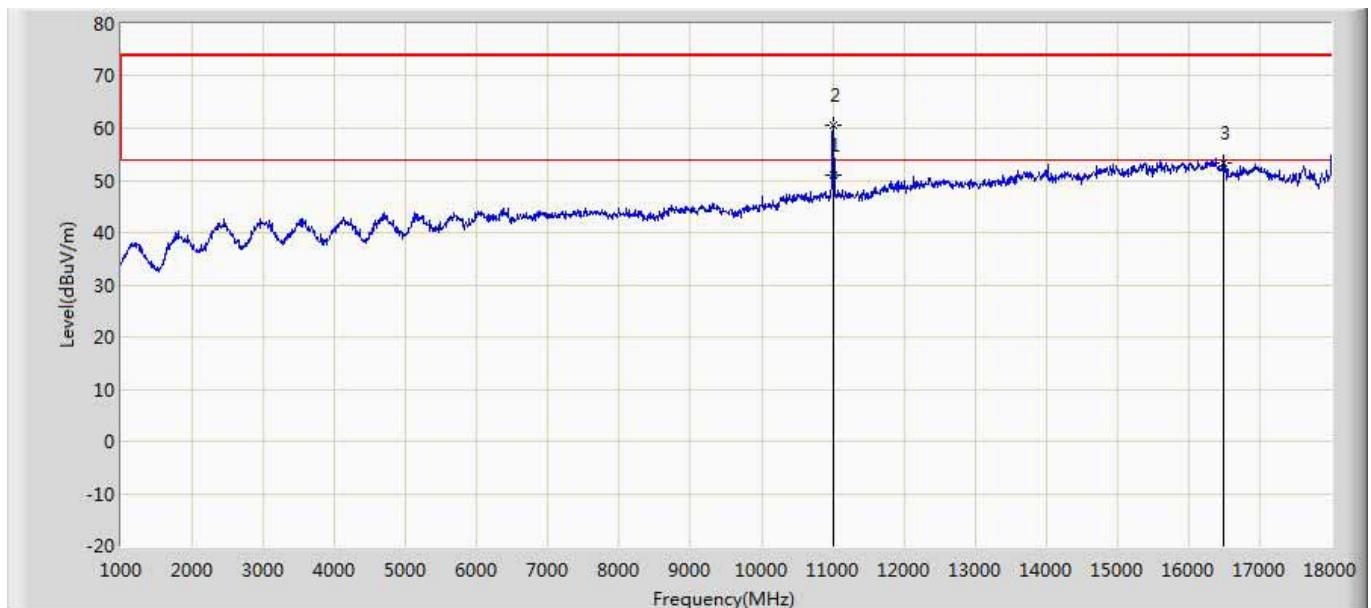
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10640.000	50.689	38.145	-3.311	54.000	12.544	AV
2		10647.500	60.652	48.009	-13.348	74.000	12.642	PK
3		15960.000	53.857	36.196	-20.143	74.000	17.661	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 10:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 2:Transmit 5320MHz by 802.11n20	



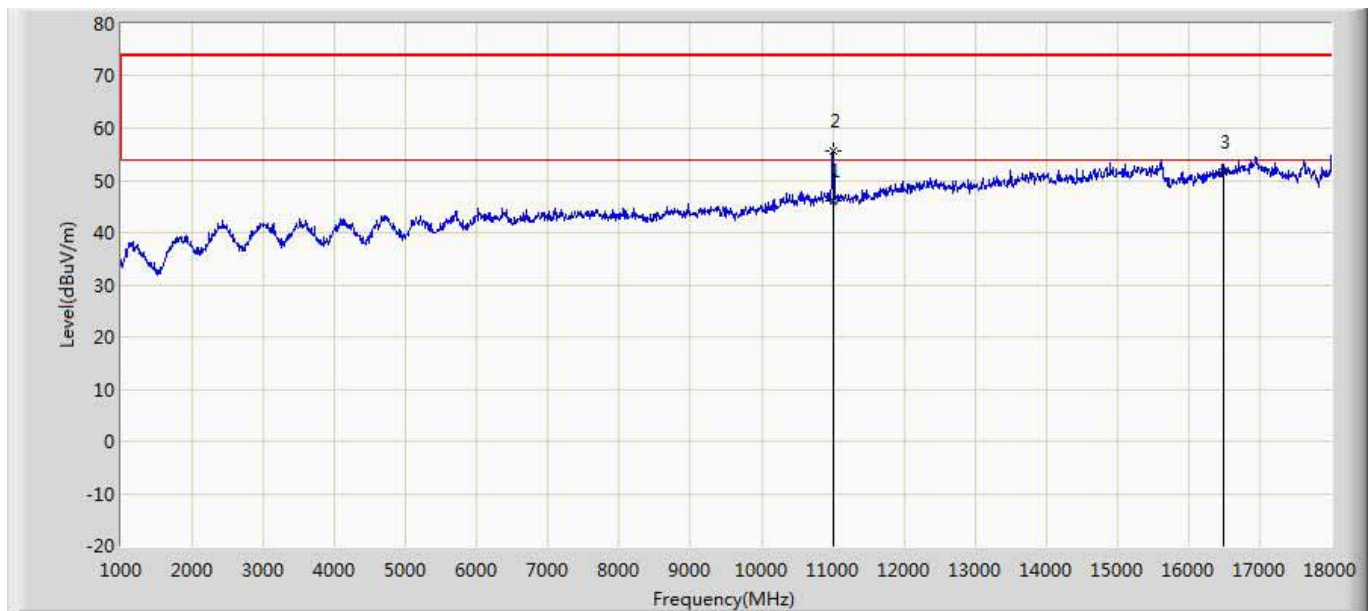
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10639.000	57.809	45.279	-16.191	74.000	12.530	PK
2	*	10640.000	47.881	35.337	-6.119	54.000	12.544	AV
3		15960.000	52.372	34.711	-21.628	74.000	17.661	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 10:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 2:Transmit 5500MHz by 802.11n20	



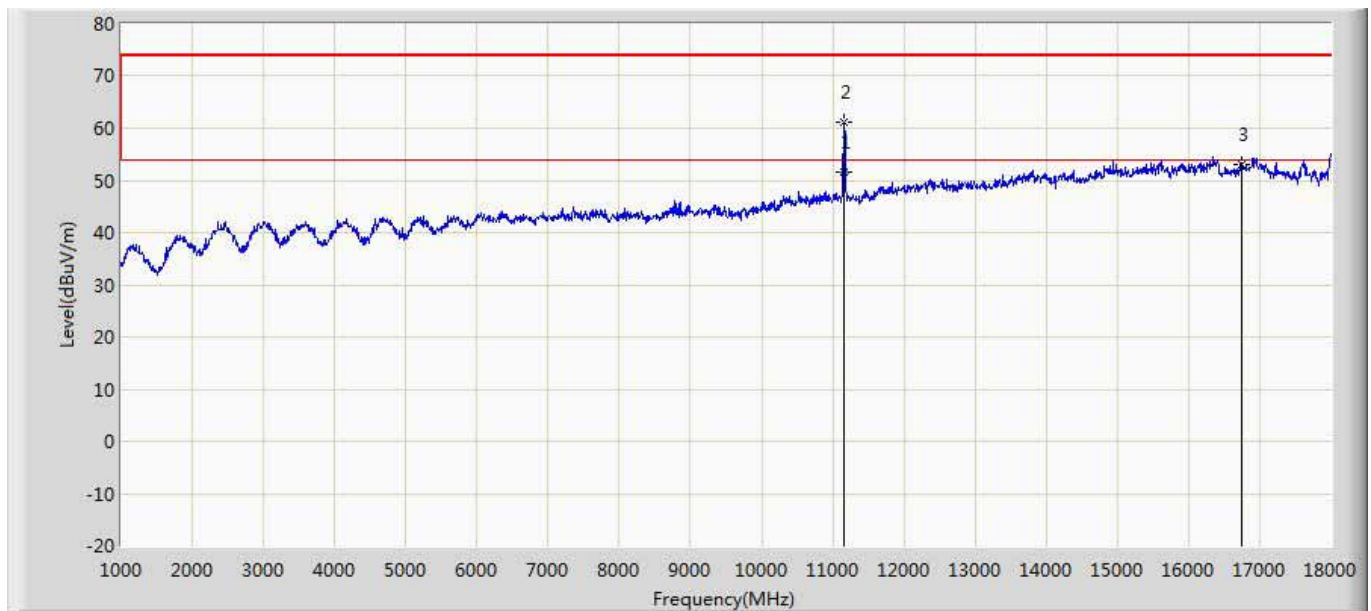
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11000.000	50.933	37.894	-3.067	54.000	13.039	AV
2		11004.500	60.454	47.121	-13.546	74.000	13.333	PK
3		16500.000	53.382	34.393	-20.618	74.000	18.989	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 10:53
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 2:Transmit 5500MHz by 802.11n20	



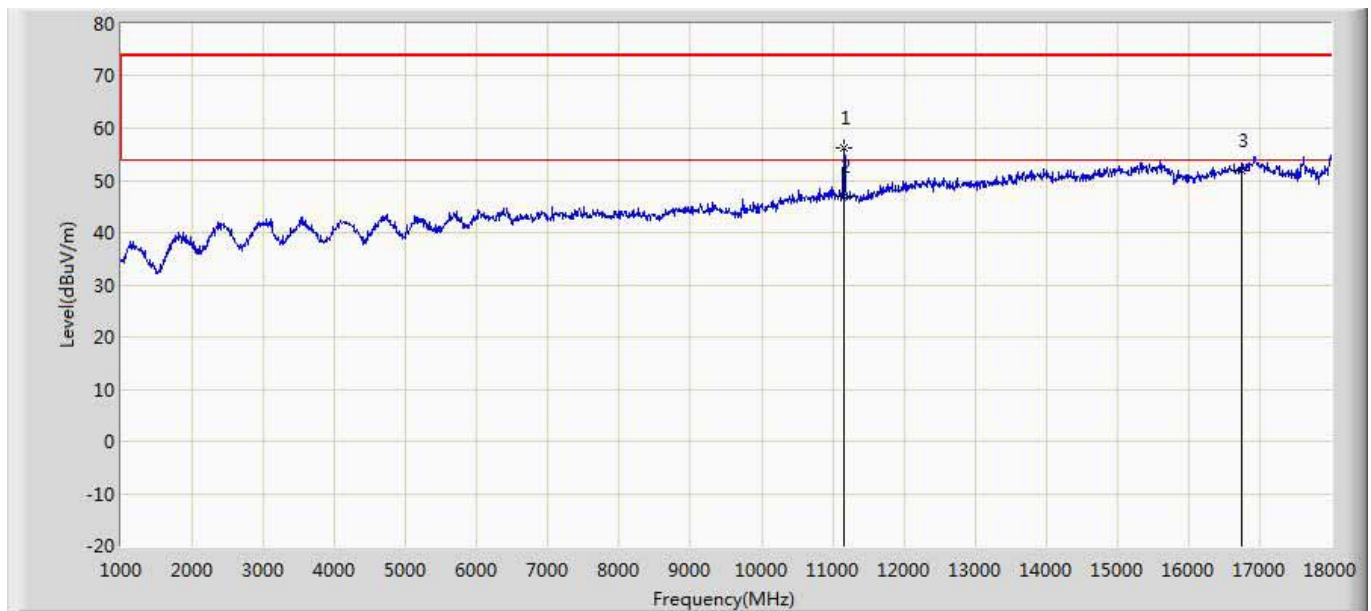
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11000.000	46.198	33.159	-7.802	54.000	13.039	AV
2		11004.500	55.739	42.406	-18.261	74.000	13.333	PK
3		16500.000	51.473	32.484	-22.527	74.000	18.989	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 10:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 2:Transmit 5580MHz by 802.11n20	



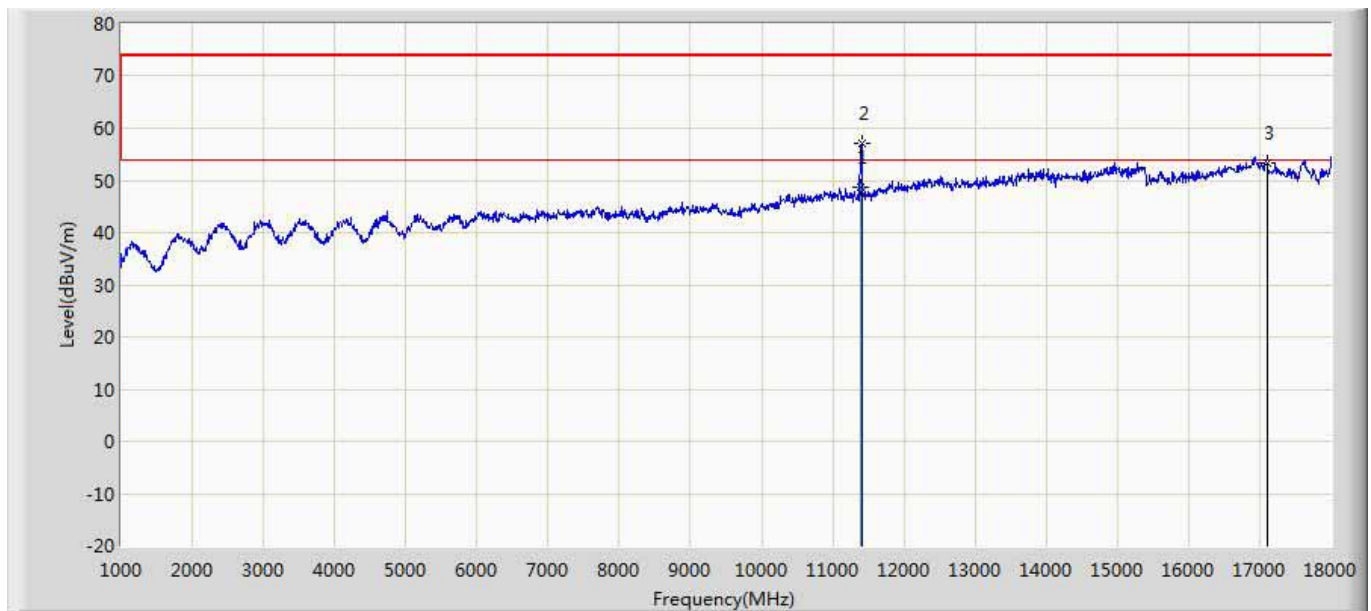
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11160.000	51.699	38.264	-2.301	54.000	13.436	AV
2		11166.000	61.223	47.805	-12.777	74.000	13.418	PK
3		16740.000	53.110	33.834	-20.890	74.000	19.276	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 11:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 2:Transmit 5580MHz by 802.11n20	



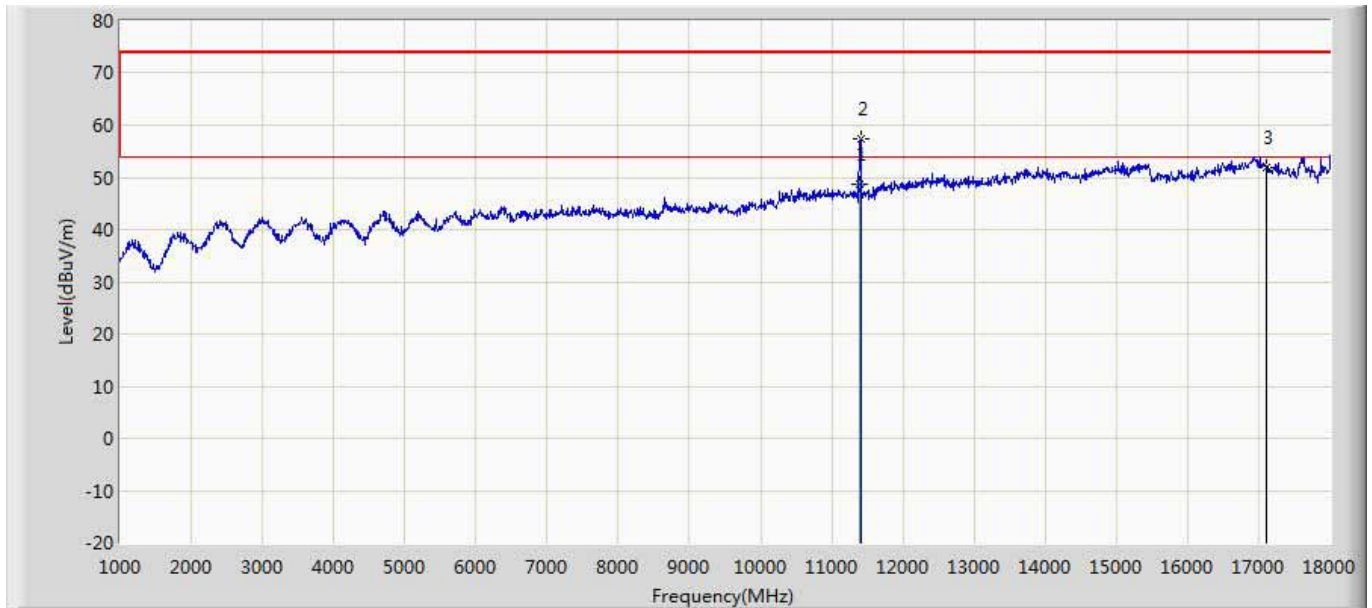
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11157.500	56.192	42.749	-17.808	74.000	13.442	PK
2	*	11160.000	46.983	33.548	-7.017	54.000	13.436	AV
3		16740.000	51.843	32.567	-22.157	74.000	19.276	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 11:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 2:Transmit 5700MHz by 802.11n20	



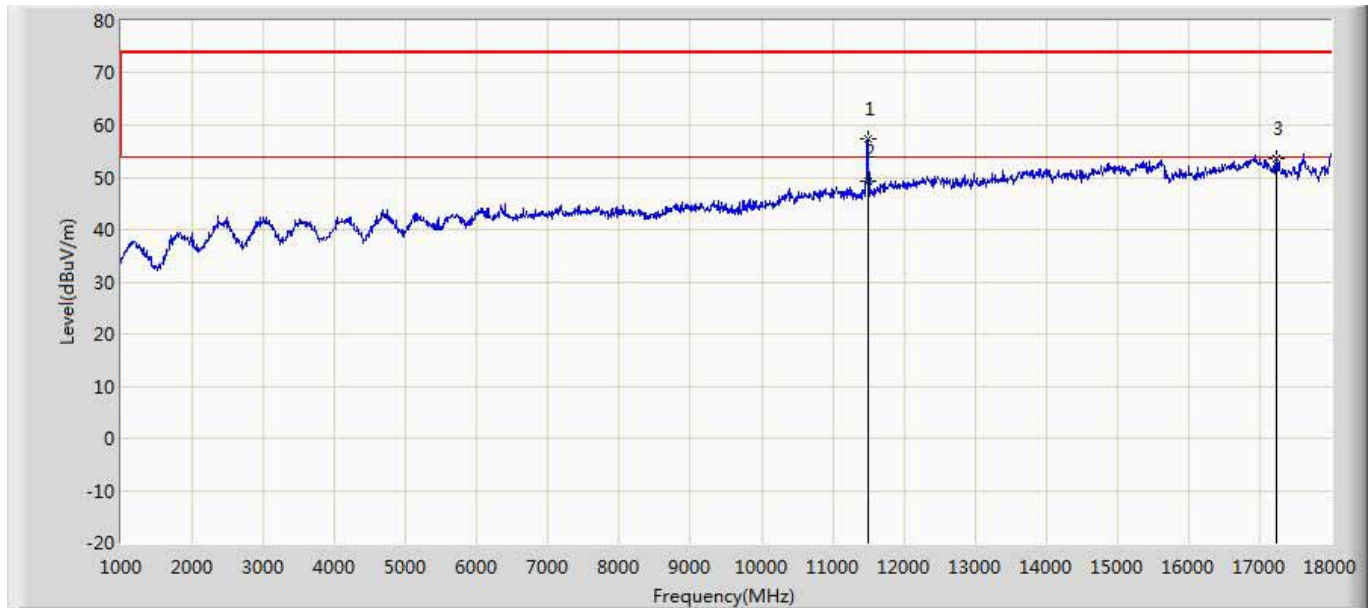
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11400.000	48.638	34.682	-5.362	54.000	13.957	AV
2		11404.000	57.104	43.275	-16.896	74.000	13.829	PK
3		17100.000	53.324	33.388	-20.676	74.000	19.936	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 11:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 2:Transmit 5700MHz by 802.11n20	



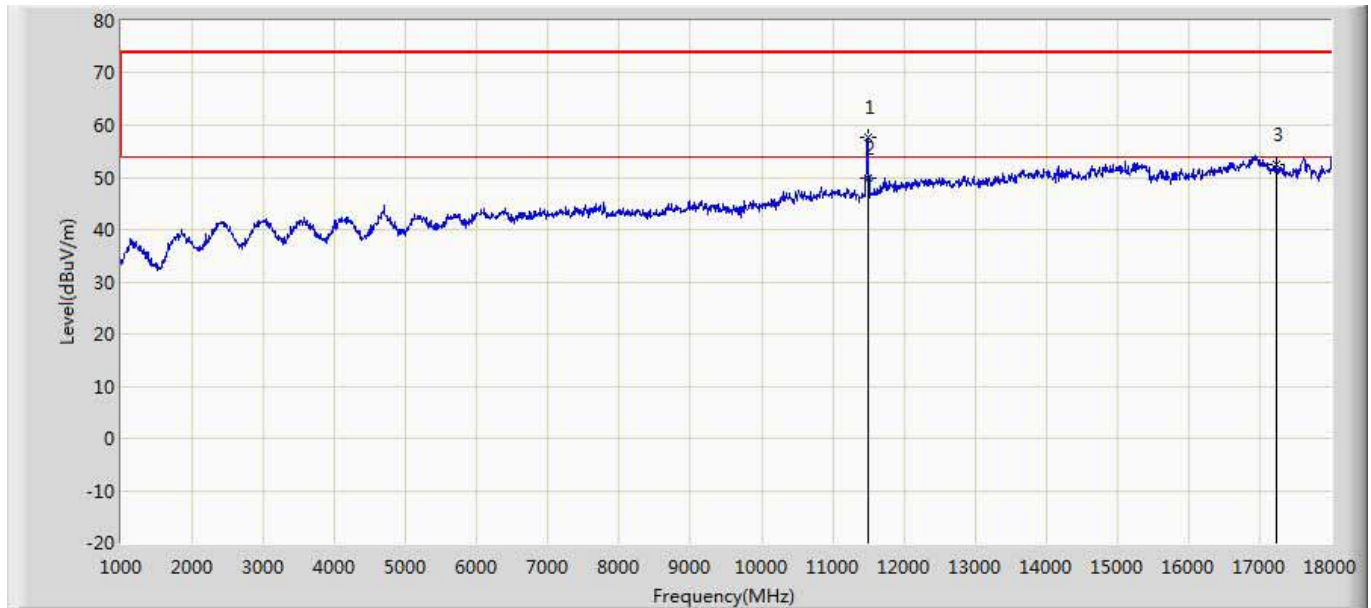
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11400.000	48.593	34.637	-5.407	54.000	13.957	AV
2		11404.000	57.445	43.616	-16.555	74.000	13.829	PK
3		17100.000	51.753	31.817	-22.247	74.000	19.936	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 11:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 2:Transmit 5745MHz by 802.11n20	



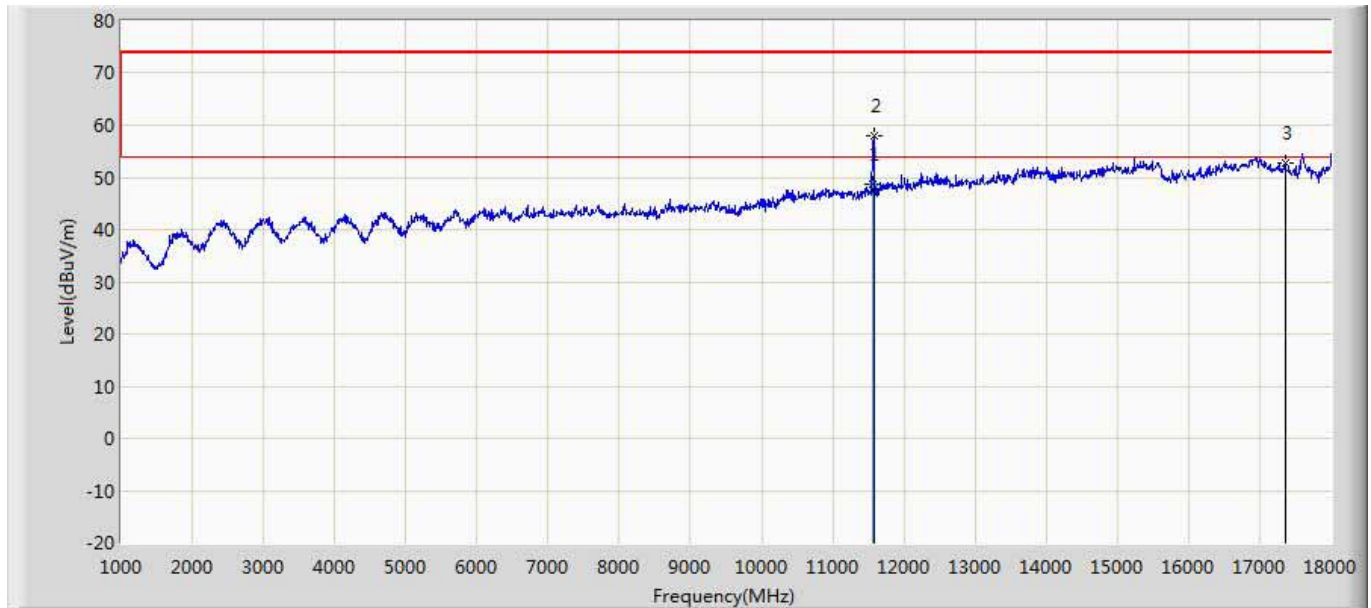
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11489.000	57.300	43.650	-16.700	74.000	13.650	PK
2	*	11490.000	49.180	35.479	-4.820	54.000	13.700	AV
3		17235.000	53.678	33.688	-20.322	74.000	19.990	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 11:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 2:Transmit 5745MHz by 802.11n20	



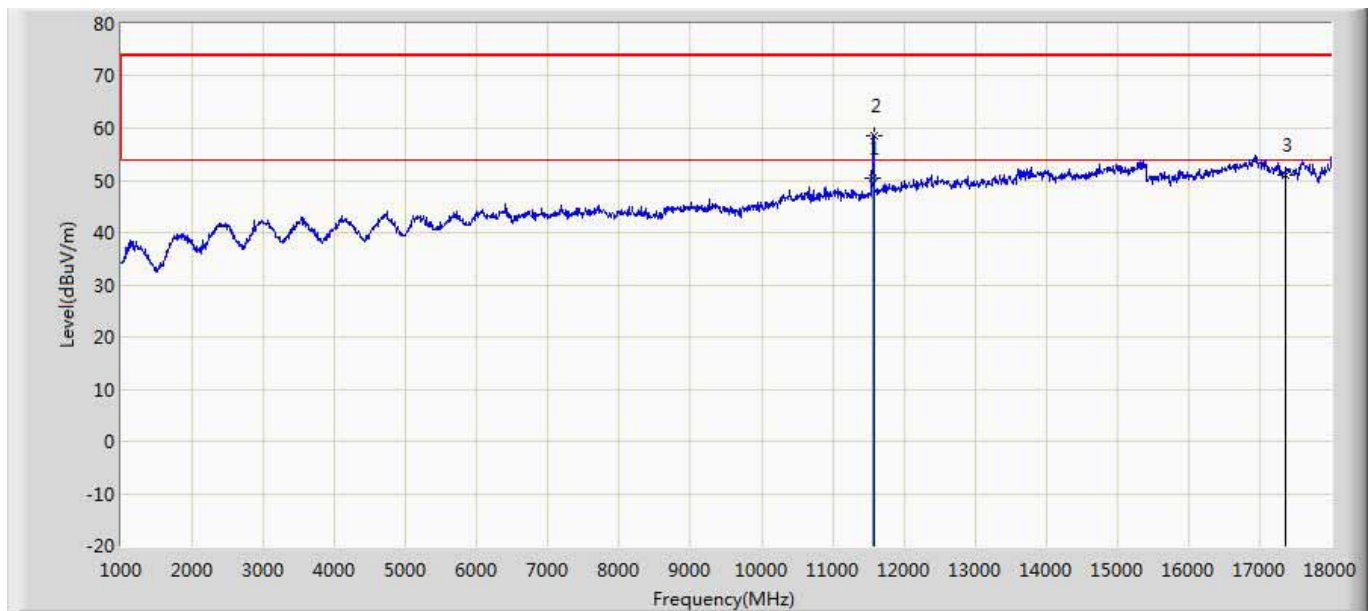
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11489.000	57.810	44.160	-16.190	74.000	13.650	PK
2	*	11490.000	49.850	36.149	-4.150	54.000	13.700	AV
3		17235.000	52.585	32.595	-21.415	74.000	19.990	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 11:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 2:Transmit 5785MHz by 802.11n20	



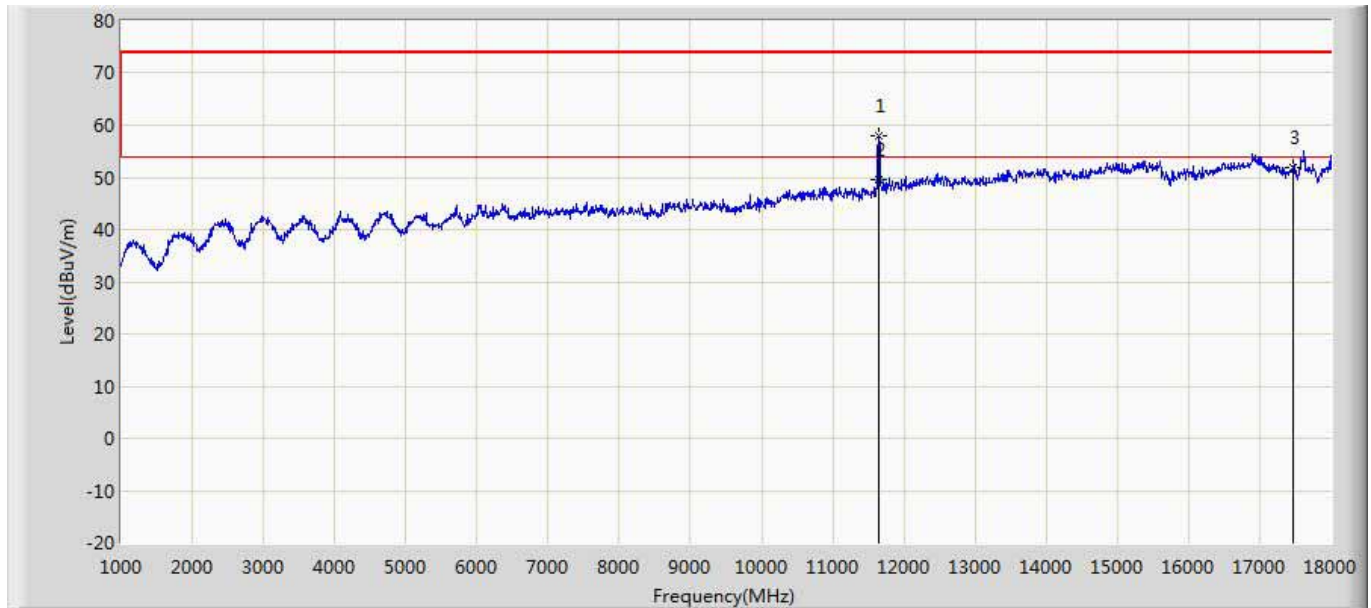
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11570.000	48.620	34.563	-5.380	54.000	14.057	AV
2		11574.000	57.831	43.781	-16.169	74.000	14.050	PK
3		17355.000	52.681	33.359	-21.319	74.000	19.322	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 11:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 2:Transmit 5785MHz by 802.11n20	



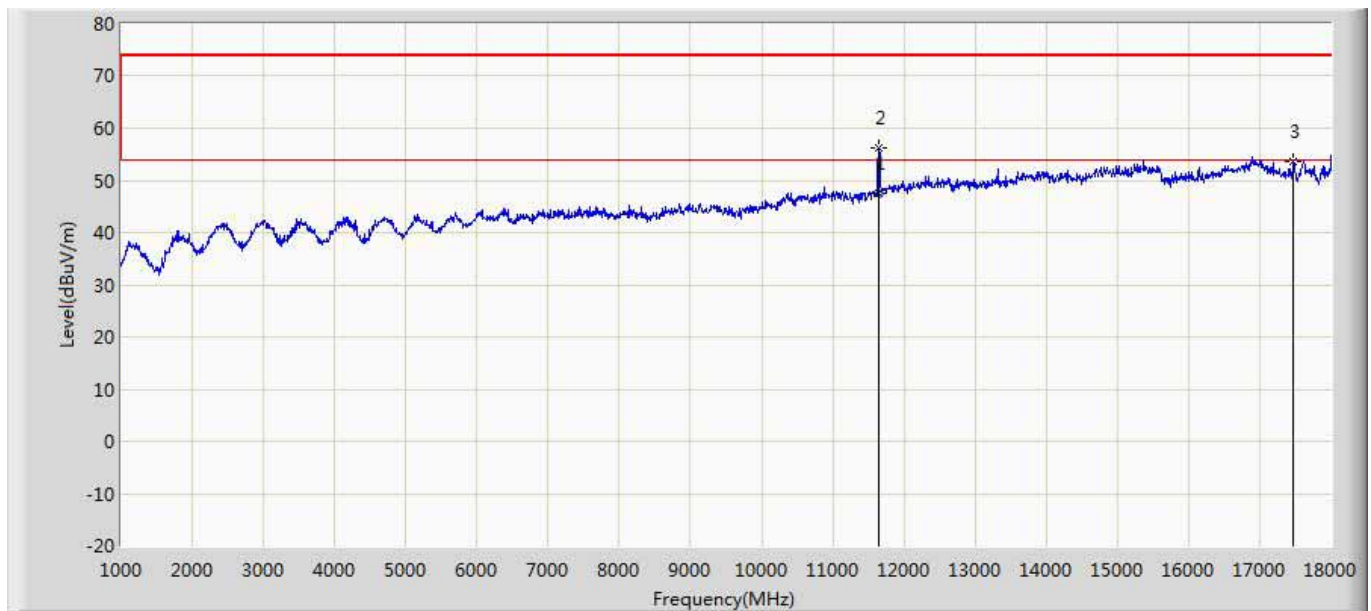
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11570.000	50.332	36.275	-3.668	54.000	14.057	AV
2		11574.000	58.637	44.587	-15.363	74.000	14.050	PK
3		17355.000	51.039	31.717	-22.961	74.000	19.322	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 13:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 2:Transmit 5825MHz by 802.11n20	



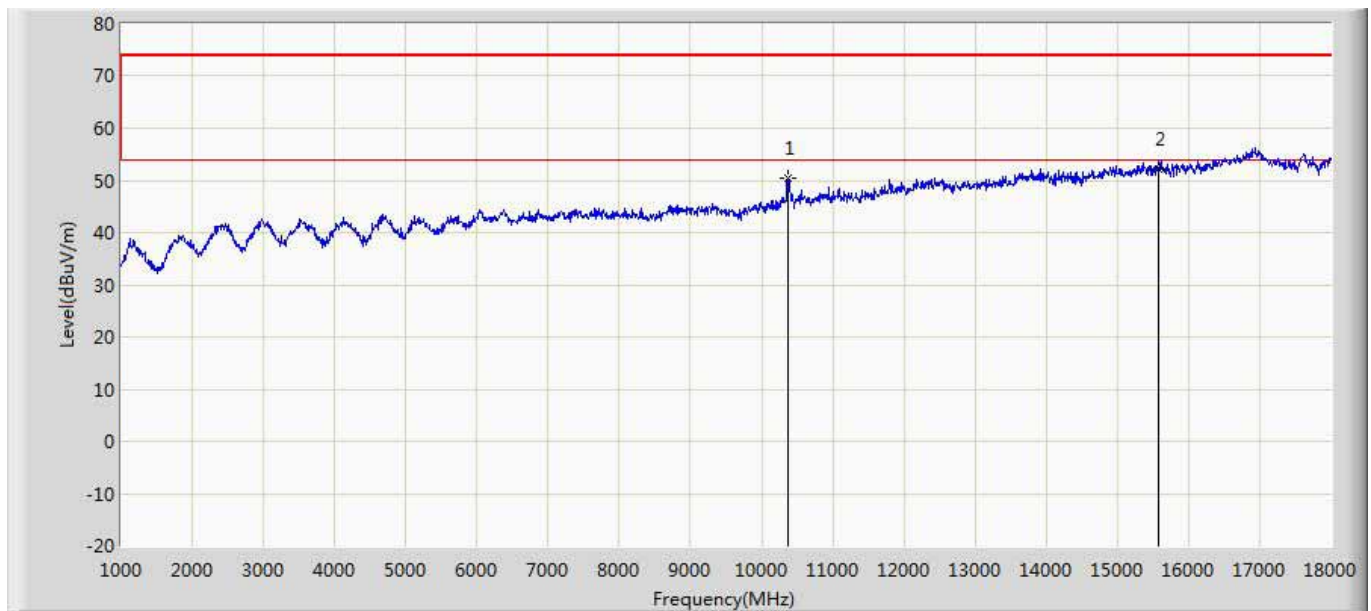
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11642.000	57.968	43.494	-16.032	74.000	14.474	PK
2	*	11650.000	49.537	35.186	-4.463	54.000	14.352	AV
3		17475.000	52.001	32.460	-21.999	74.000	19.541	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 13:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 2:Transmit 5825MHz by 802.11n20	



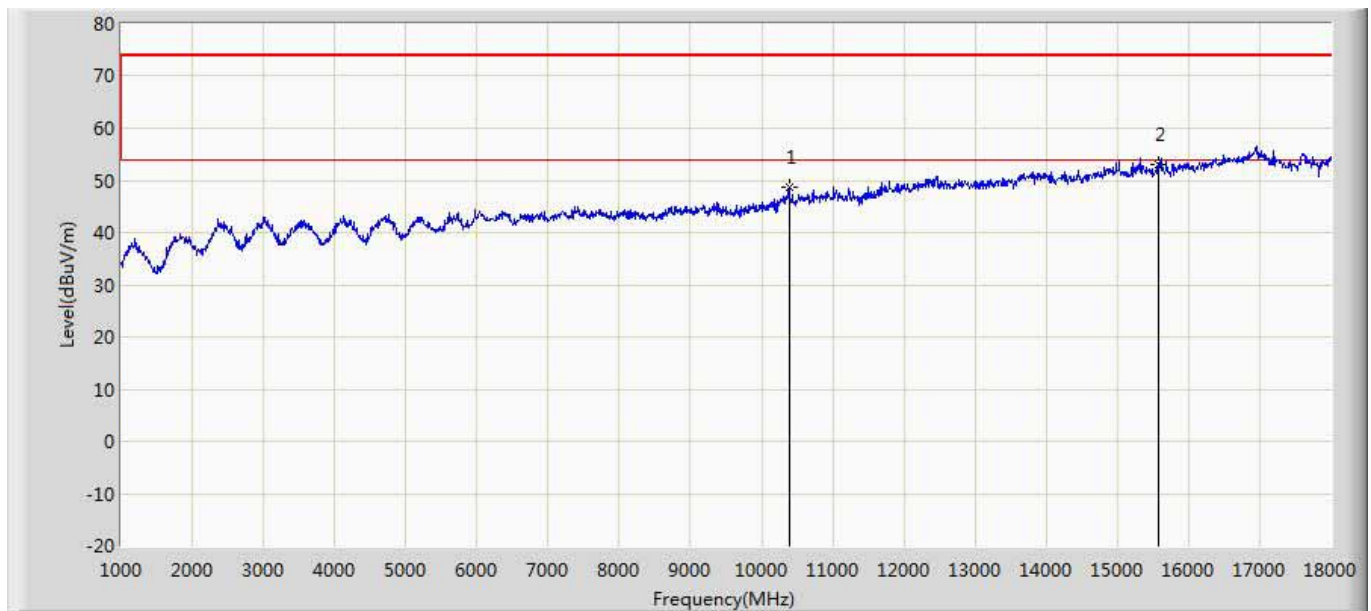
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11650.000	47.508	33.157	-6.492	54.000	14.352	AV
2		11650.500	56.318	41.975	-17.682	74.000	14.343	PK
3		17475.000	53.480	33.939	-20.520	74.000	19.541	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 13:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 3:Transmit 5190MHz by 802.11n40	



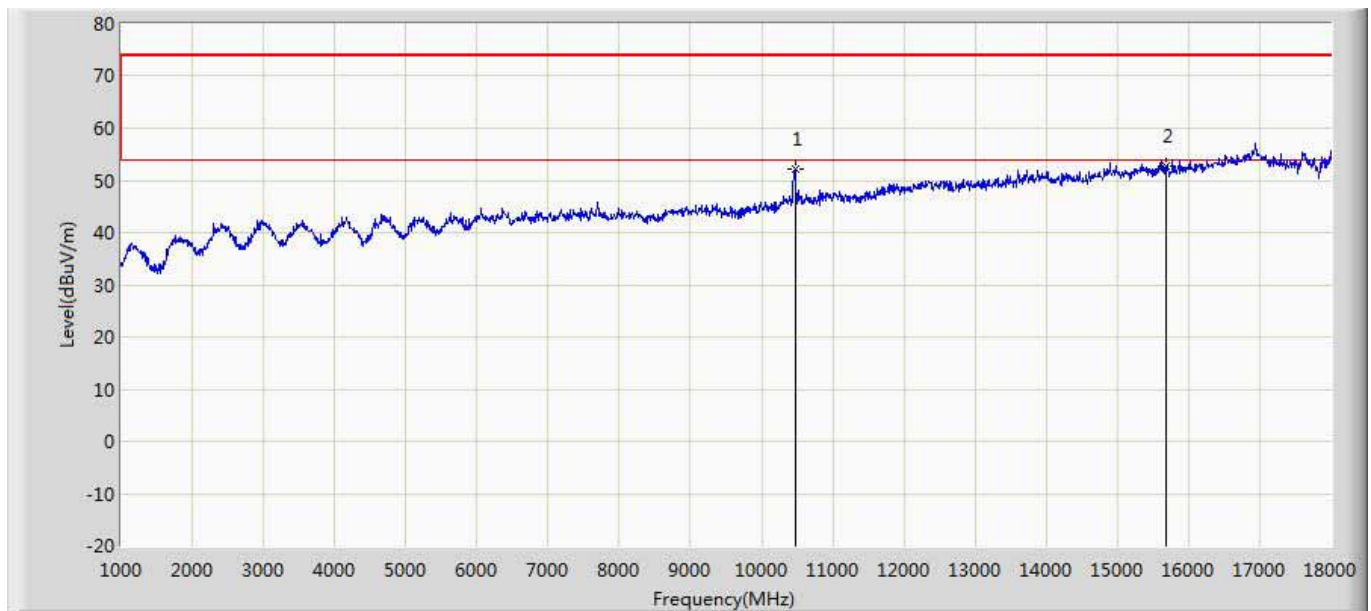
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10375.500	50.455	38.525	-23.545	74.000	11.930	PK
2	*	15570.000	52.052	33.712	-21.948	74.000	18.340	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 13:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 3:Transmit 5190MHz by 802.11n40	



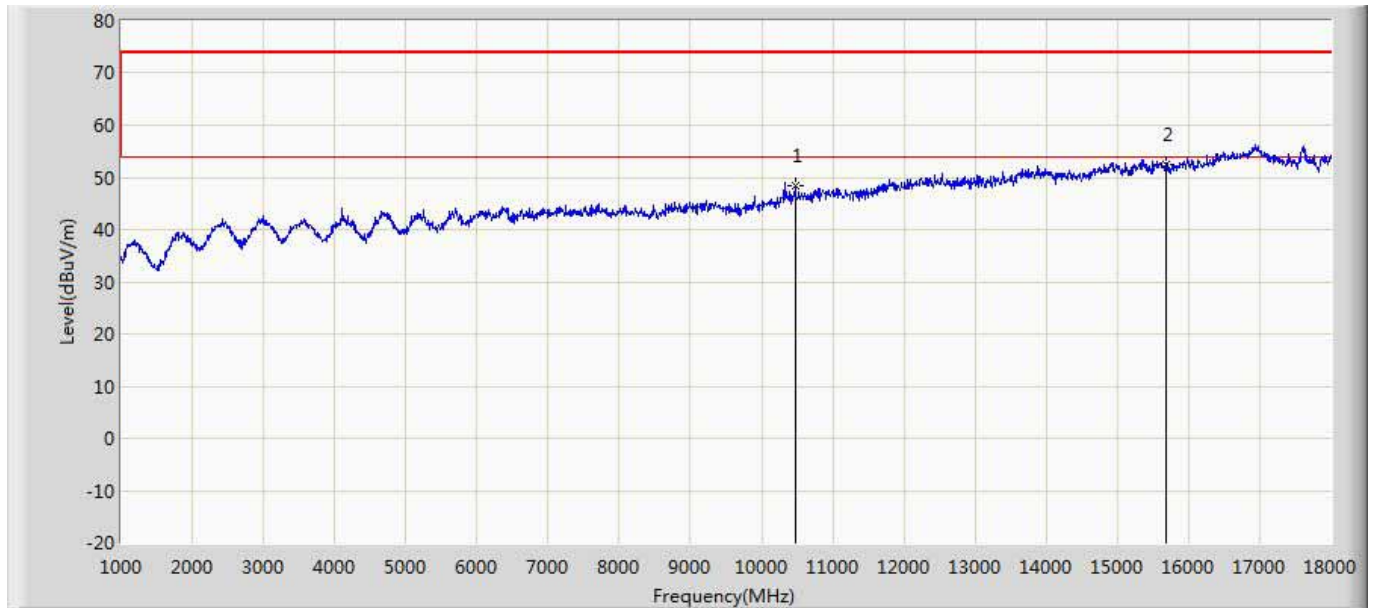
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10384.000	48.647	36.646	-25.353	74.000	12.001	PK
2	*	15570.000	53.058	34.718	-20.942	74.000	18.340	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 13:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 3:Transmit 5230MHz by 802.11n40	



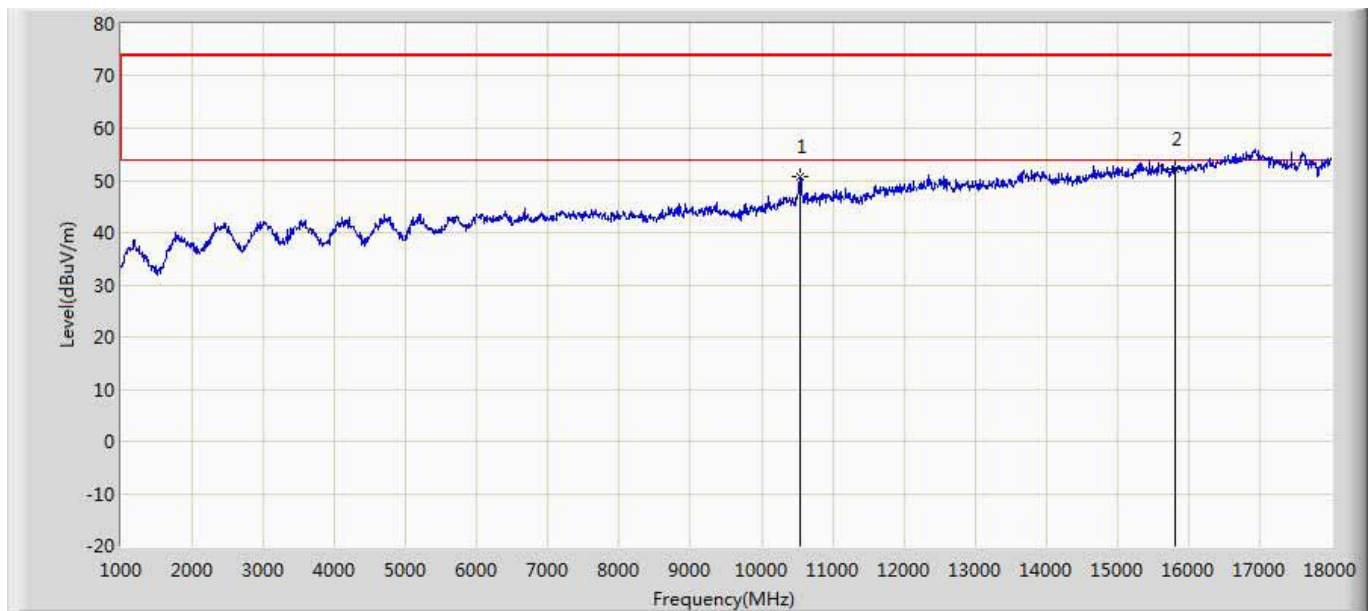
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10469.000	52.273	40.027	-21.727	74.000	12.246	PK
2	*	15690.000	52.724	34.007	-21.276	74.000	18.717	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 13:53
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 3:Transmit 5230MHz by 802.11n40	



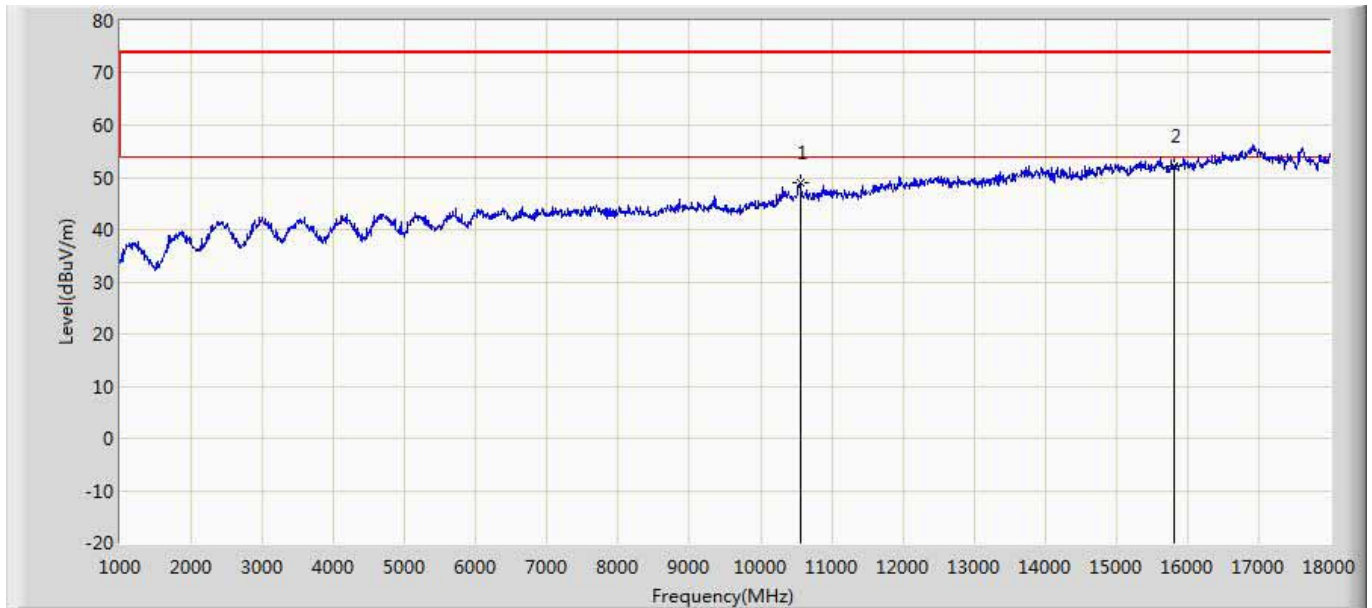
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10469.000	48.481	36.235	-25.519	74.000	12.246	PK
2	*	15690.000	52.588	33.871	-21.412	74.000	18.717	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 13:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 3:Transmit 5270MHz by 802.11n40	



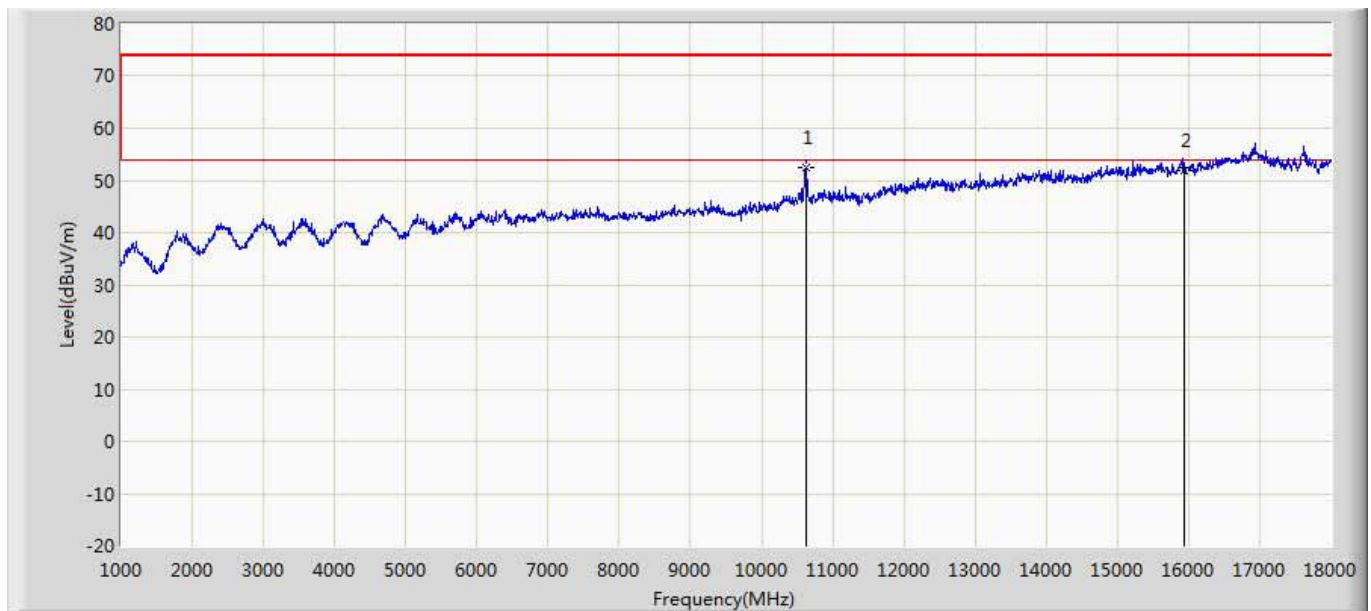
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10545.500	50.768	38.368	-23.232	74.000	12.400	PK
2	*	15810.000	52.165	34.065	-21.835	74.000	18.101	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 14:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 3:Transmit 5270MHz by 802.11n40	



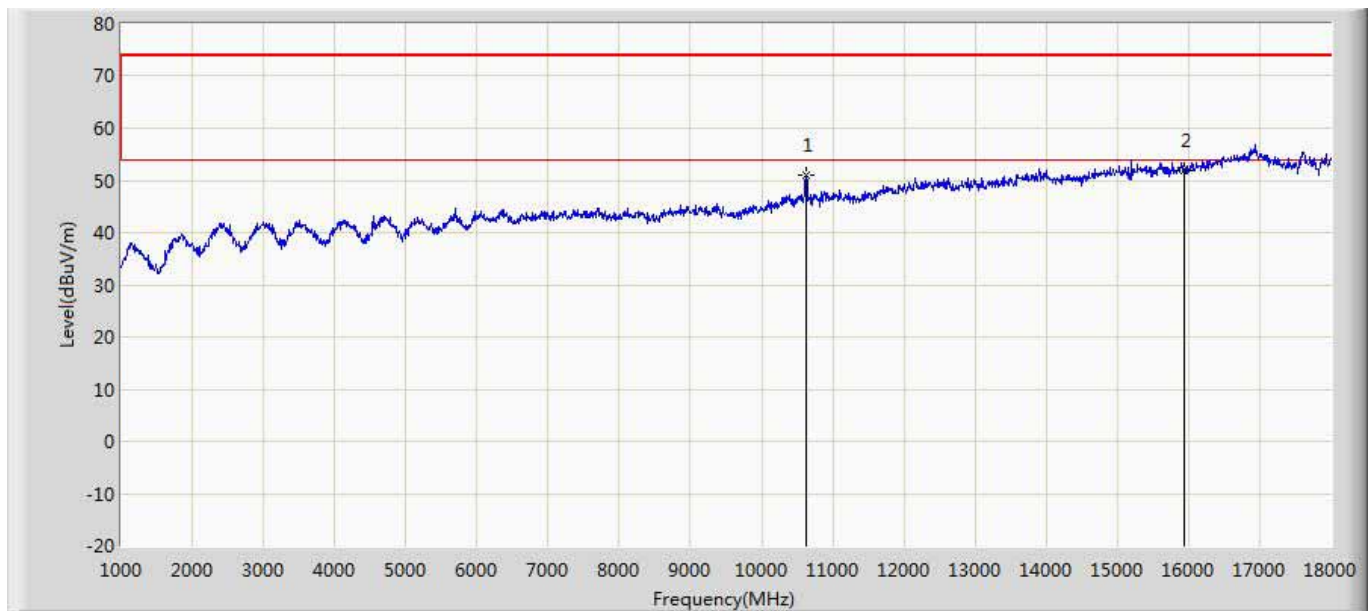
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10554.000	49.091	36.478	-24.909	74.000	12.613	PK
2	*	15810.000	52.058	33.958	-21.942	74.000	18.101	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 14:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 3:Transmit 5310MHz by 802.11n40	



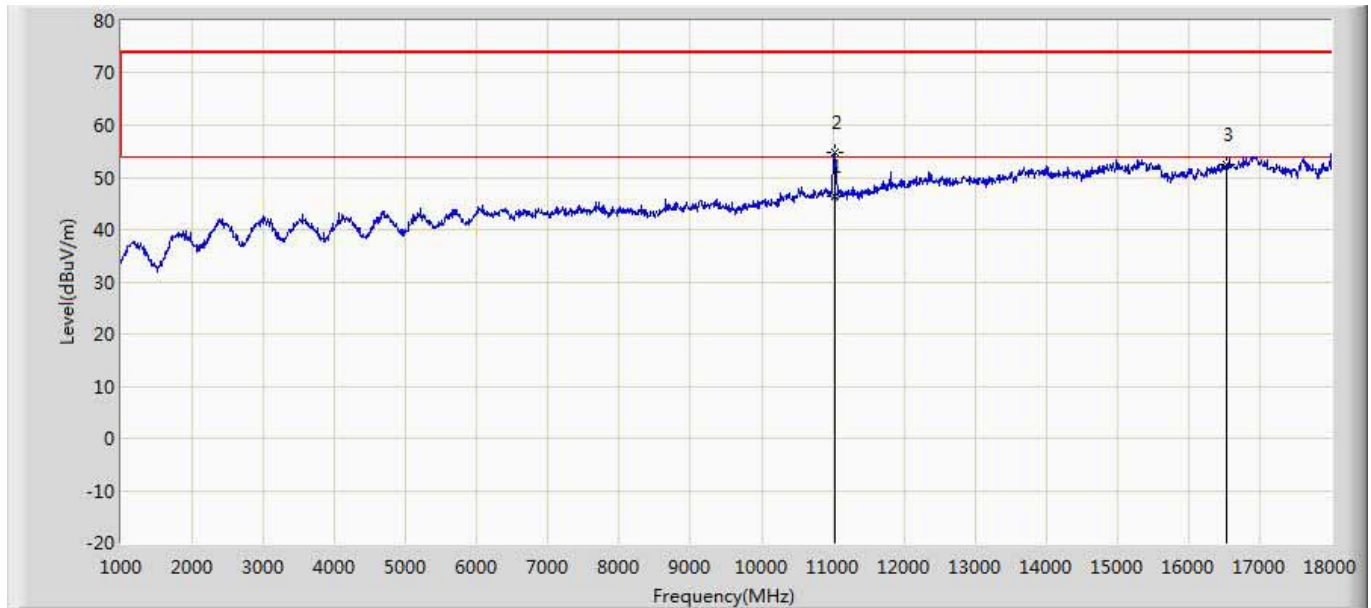
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10622.000	52.339	40.102	-21.661	74.000	12.237	PK
2		15930.000	52.006	33.611	-21.994	74.000	18.395	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 14:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 3:Transmit 5310MHz by 802.11n40	



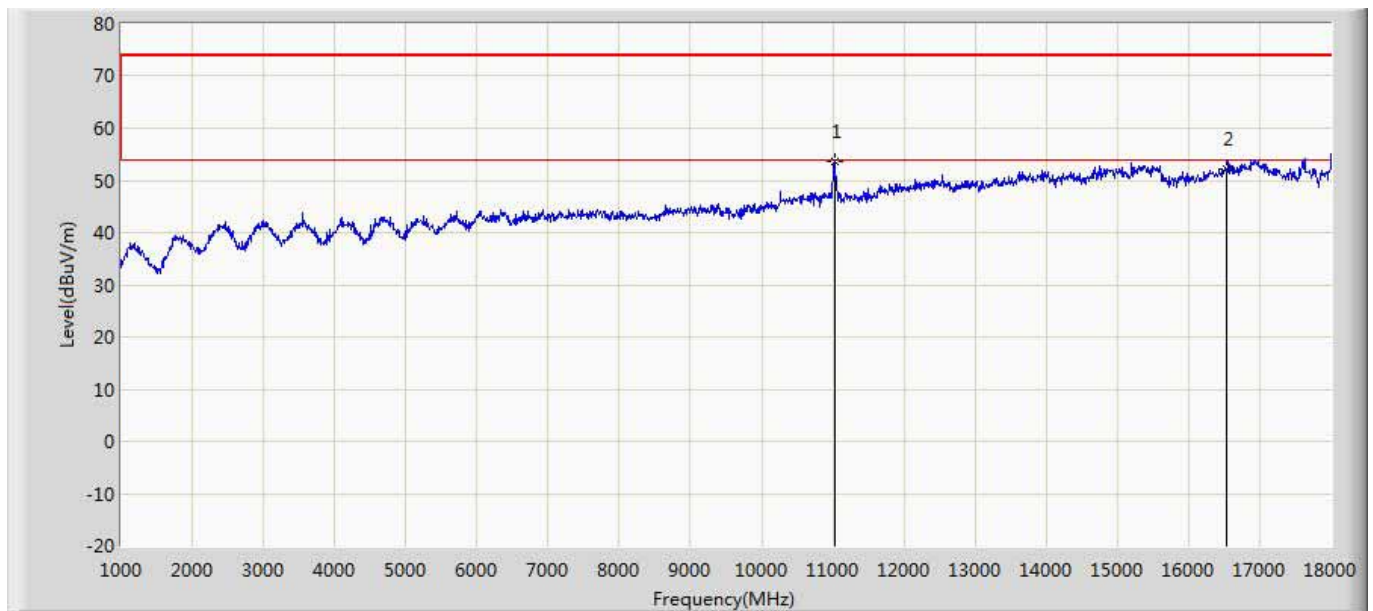
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10622.000	51.010	38.773	-22.990	74.000	12.237	PK
2	*	15930.000	51.834	33.439	-22.166	74.000	18.395	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 14:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 3:Transmit 5510MHz by 802.11n40	



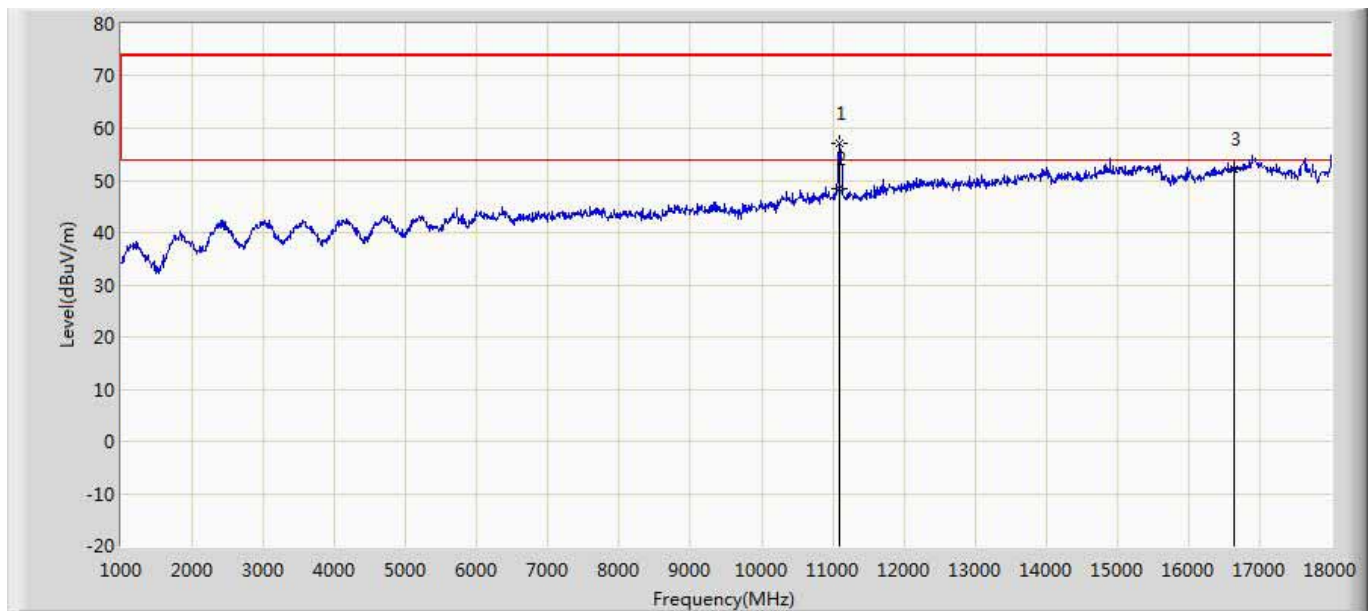
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11020.000	46.287	32.548	-7.713	54.000	13.738	AV
2		11021.500	54.808	41.101	-19.192	74.000	13.707	PK
3		16530.000	52.518	33.295	-21.482	74.000	19.223	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 14:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 3:Transmit 5510MHz by 802.11n40	



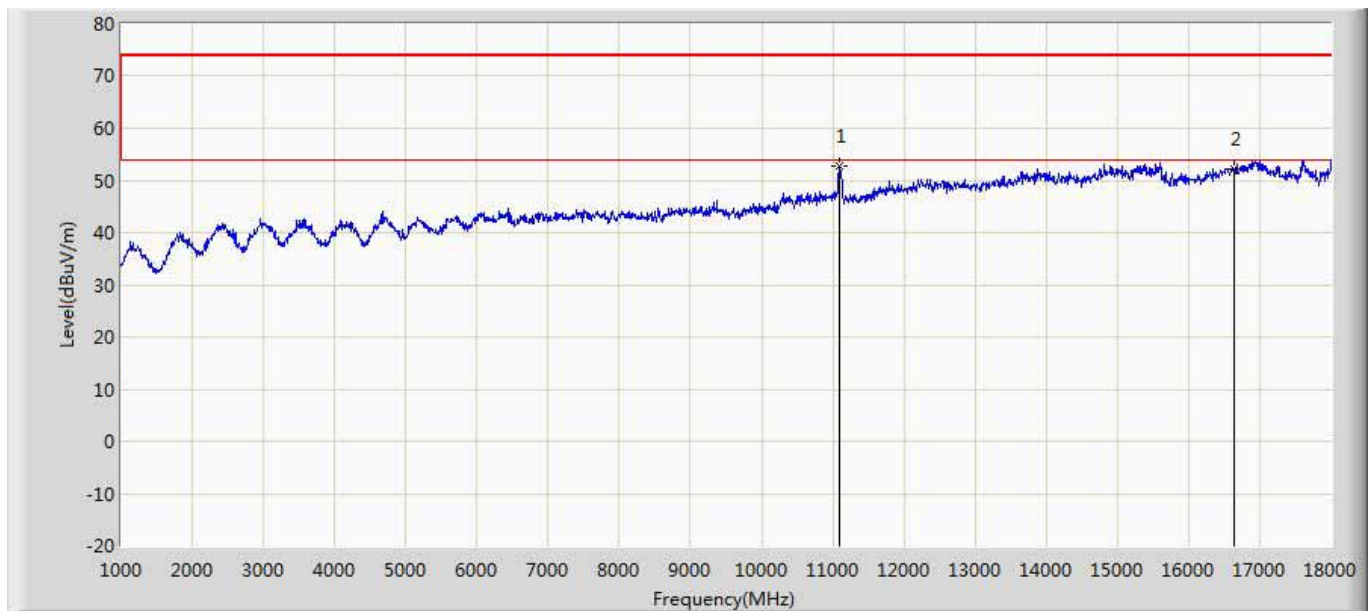
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11021.500	53.736	40.029	-20.264	74.000	13.707	PK
2		16530.000	52.128	32.905	-21.872	74.000	19.223	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 14:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 3:Transmit 5550MHz by 802.11n40	



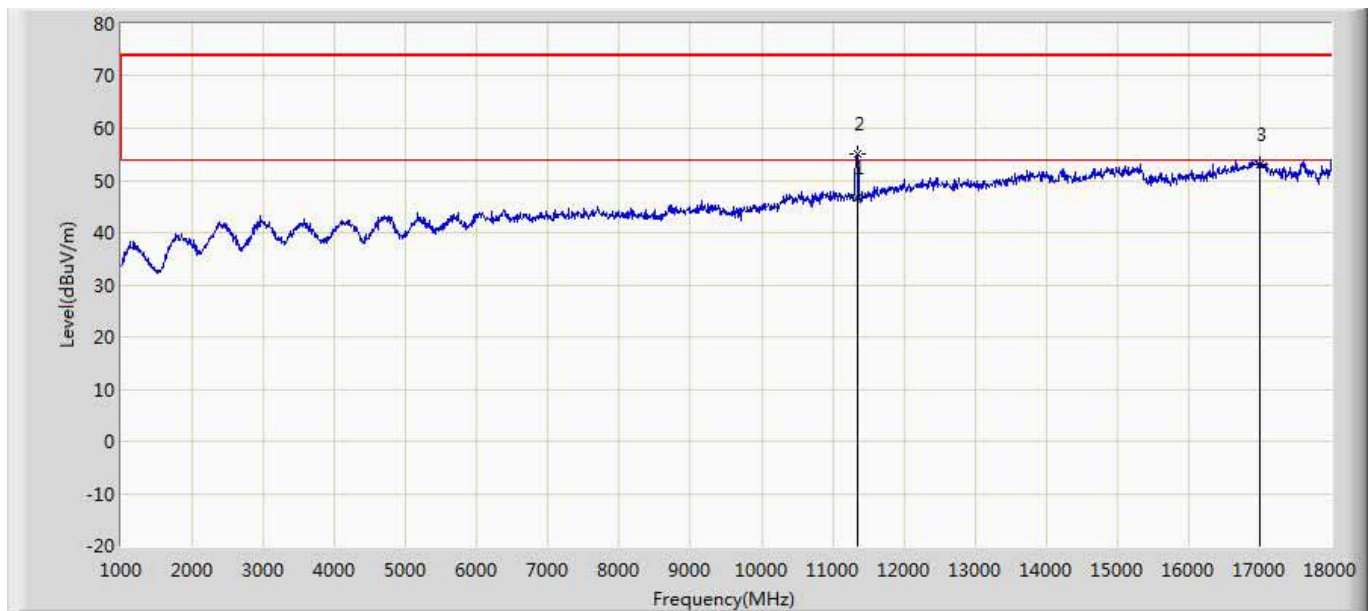
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11098.000	57.060	43.278	-16.940	74.000	13.782	PK
2	*	11100.000	48.465	34.782	-5.535	54.000	13.683	AV
3		16650.000	52.055	32.496	-21.945	74.000	19.559	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 14:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 3:Transmit 5550MHz by 802.11n40	



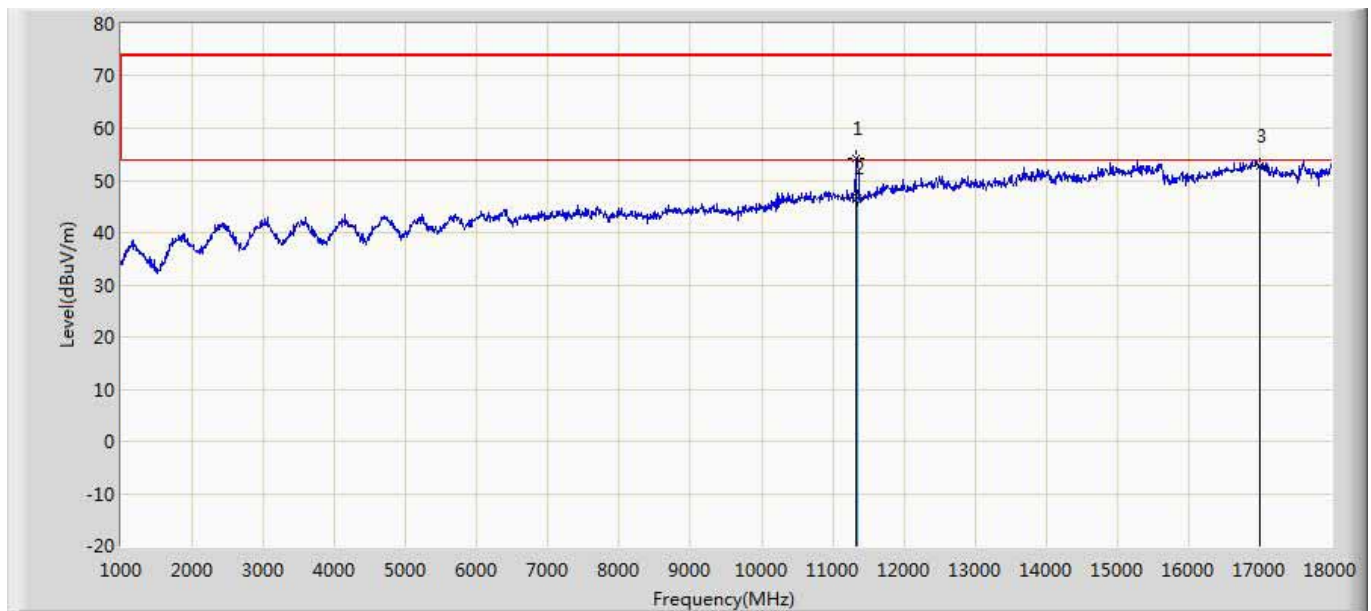
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11098.000	52.680	38.898	-21.320	74.000	13.782	PK
2		16650.000	52.082	32.523	-21.918	74.000	19.559	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 14:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 3:Transmit 5670MHz by 802.11n40	



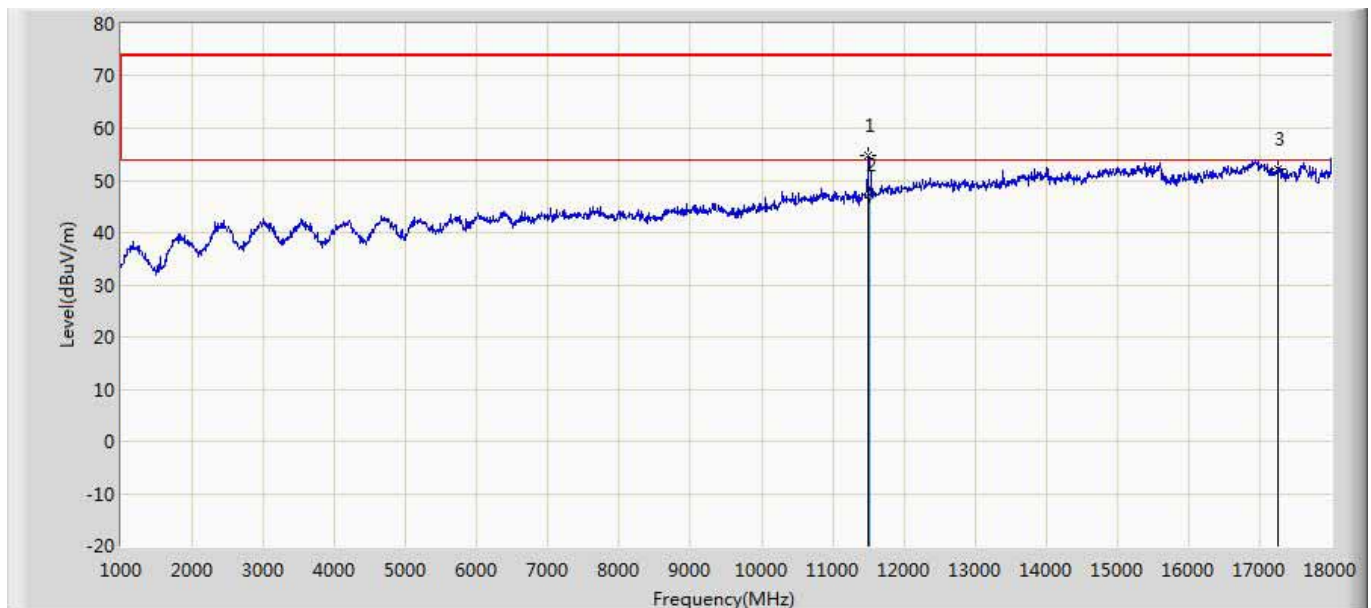
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11340.000	46.561	32.561	-7.439	54.000	13.999	AV
2		11344.500	54.950	40.866	-19.050	74.000	14.084	PK
3		17010.000	53.015	32.683	-20.985	74.000	20.333	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 14:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 3:Transmit 5670MHz by 802.11n40	



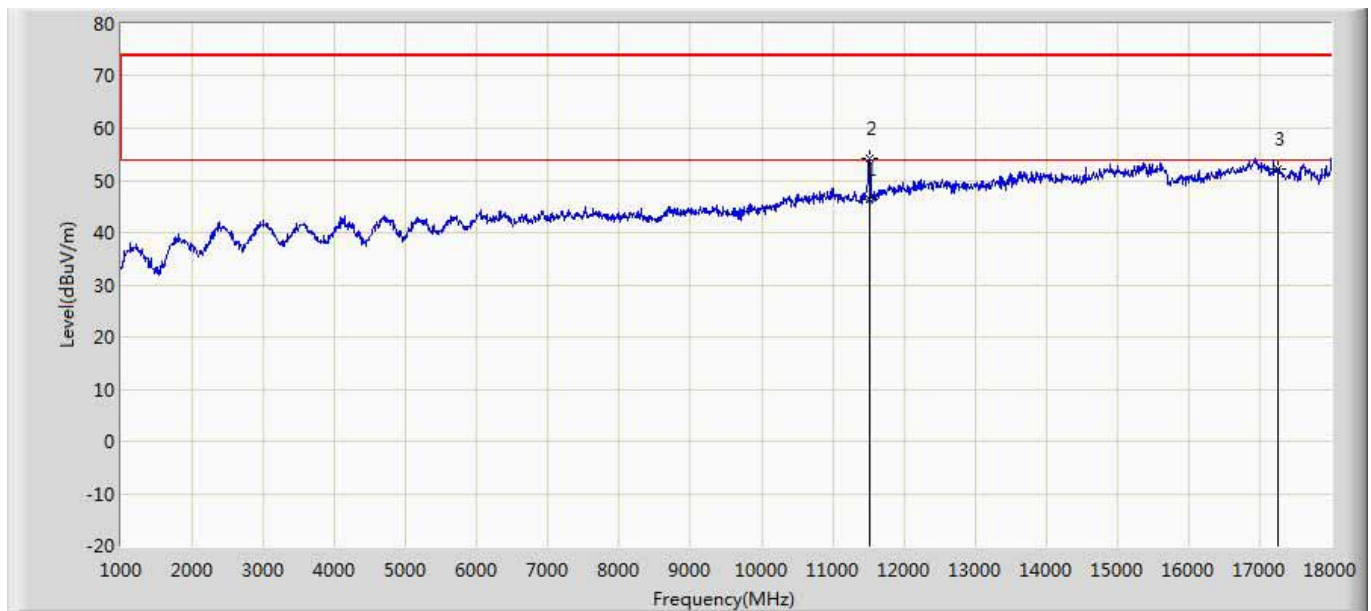
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11336.000	54.345	40.420	-19.655	74.000	13.925	PK
2	*	11340.000	46.564	32.564	-7.436	54.000	13.999	AV
3		17010.000	52.765	32.433	-21.235	74.000	20.333	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 14:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 3:Transmit 5755MHz by 802.11n40	



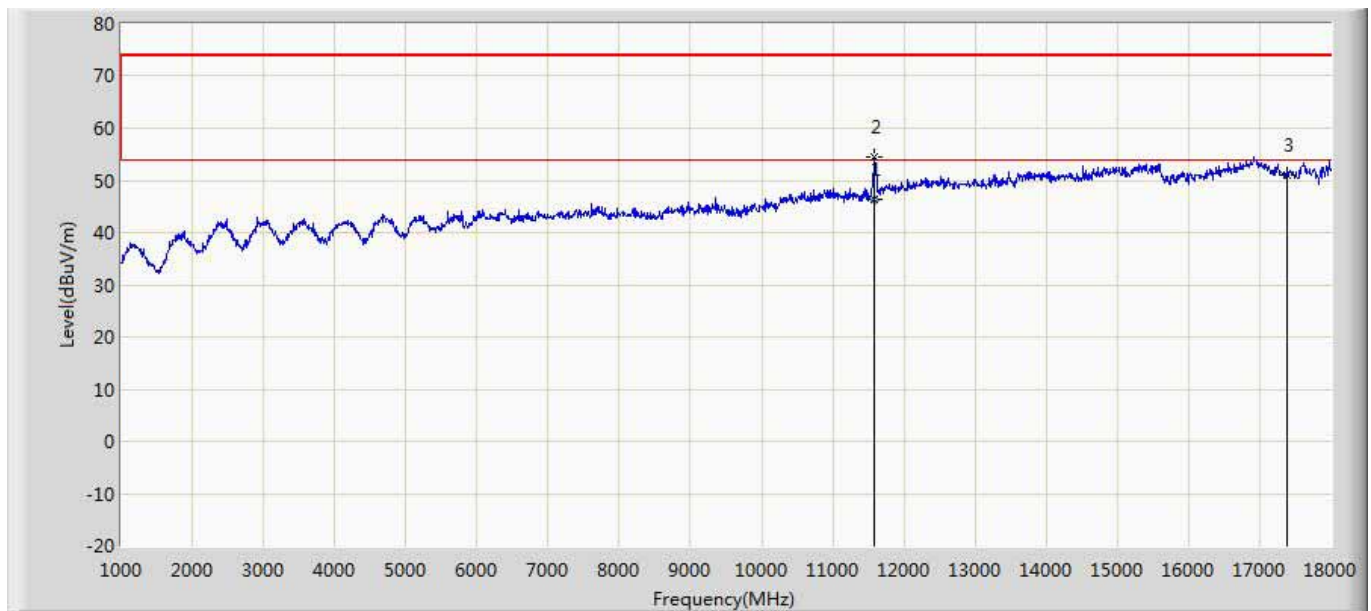
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11506.000	54.706	40.199	-19.294	74.000	14.507	PK
2	*	11510.000	47.167	32.846	-6.833	54.000	14.321	AV
3		17265.000	52.223	31.993	-21.777	74.000	20.230	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 14:53
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 3:Transmit 5755MHz by 802.11n40	



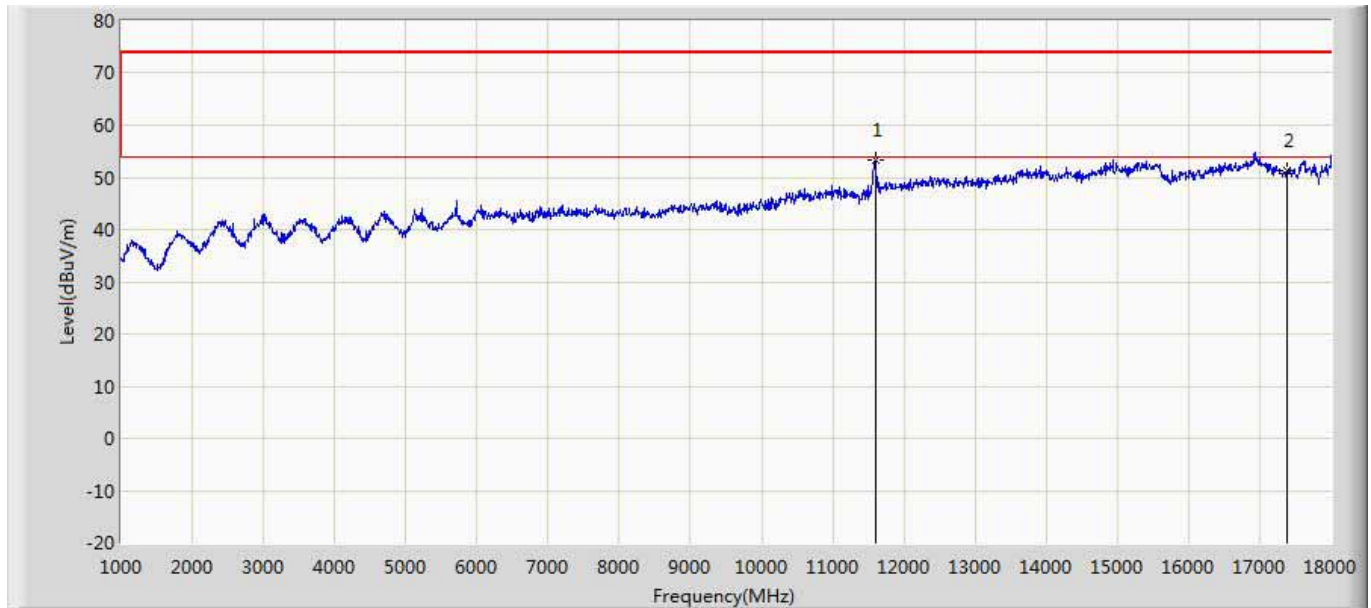
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11510.000	46.468	32.147	-7.532	54.000	14.321	AV
2		11514.500	54.163	40.050	-19.837	74.000	14.114	PK
3		17265.000	52.214	31.984	-21.786	74.000	20.230	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 15:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 3:Transmit 5795MHz by 802.11n40	



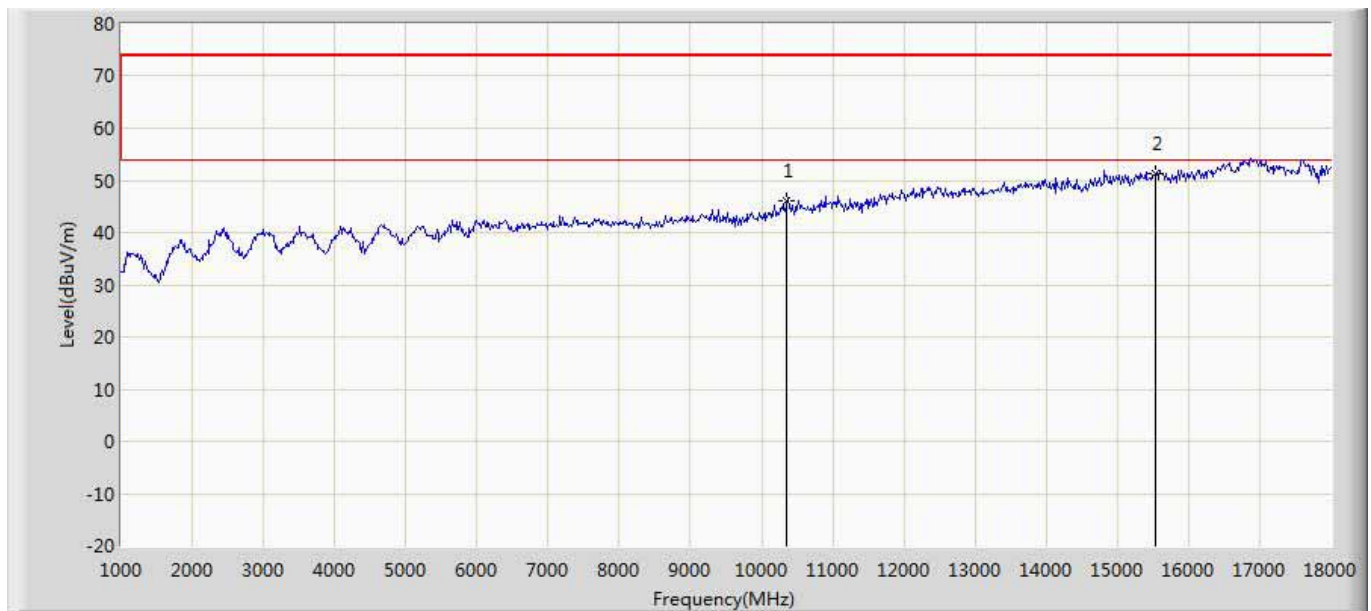
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11590.000	46.453	31.563	-7.547	54.000	14.890	AV
2		11591.000	54.445	39.502	-19.555	74.000	14.943	PK
3		17385.000	51.071	31.682	-22.929	74.000	19.389	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 15:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 3:Transmit 5795MHz by 802.11n40	



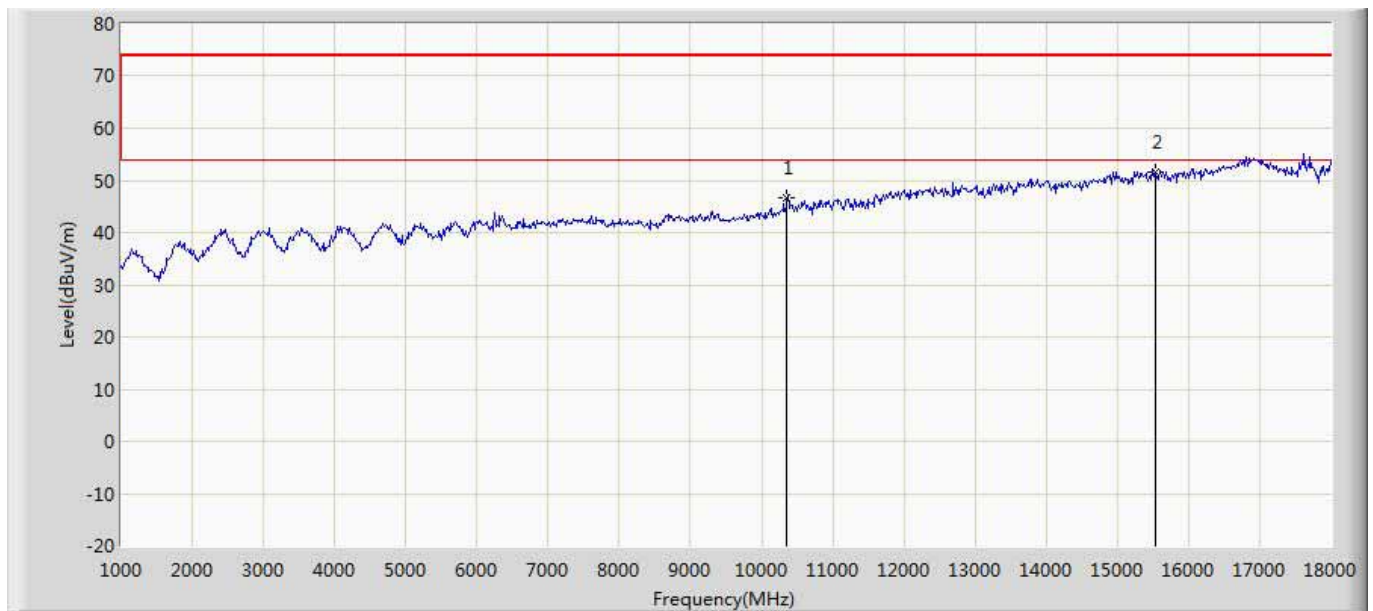
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11599.500	53.207	38.628	-20.793	74.000	14.579	PK
2		17385.000	51.251	31.862	-22.749	74.000	19.389	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 15:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 4:Transmit 5180MHz by 802.11ac20	



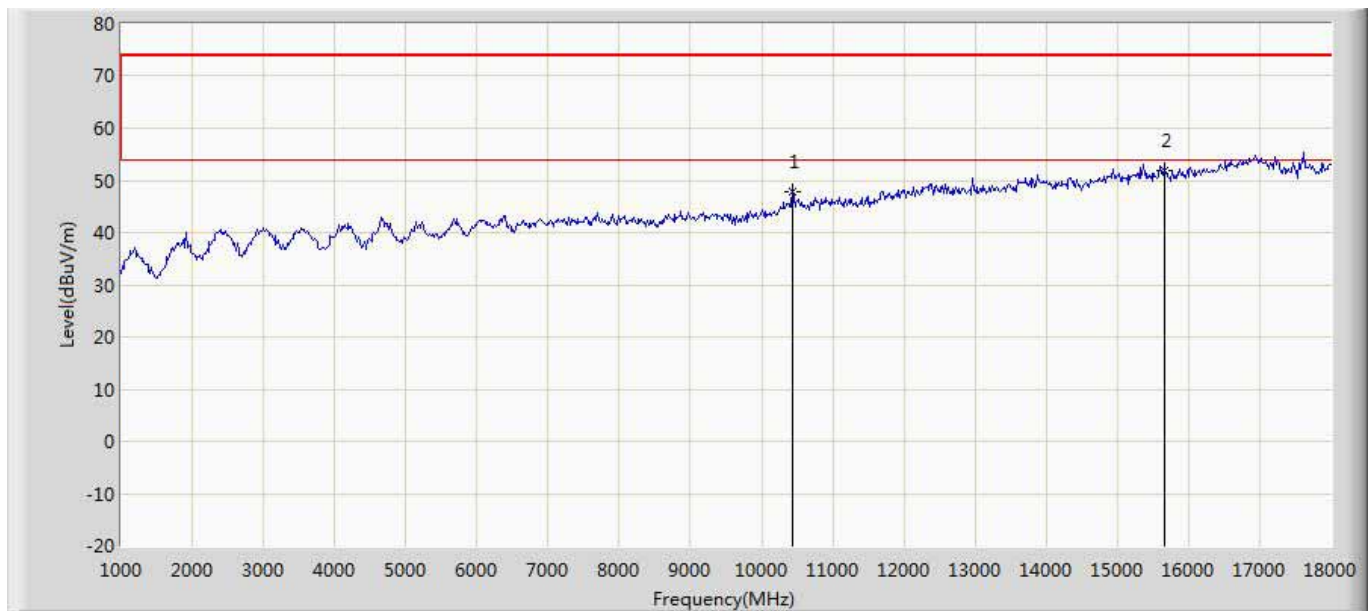
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10360.000	46.122	34.152	-27.878	74.000	11.970	PK
2	*	15540.000	51.421	33.634	-22.579	74.000	17.787	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 15:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 4:Transmit 5180MHz by 802.11ac20	



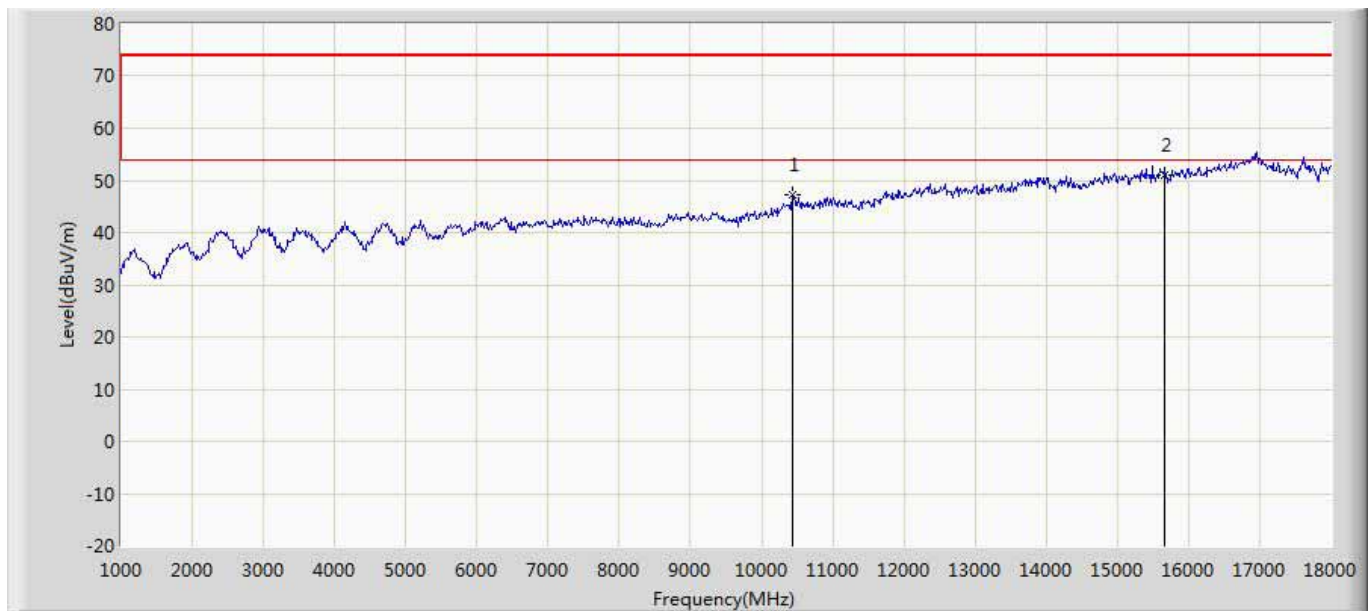
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10360.000	46.522	34.552	-27.478	74.000	11.970	PK
2	*	15540.000	51.672	33.885	-22.328	74.000	17.787	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 15:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 4:Transmit 5220MHz by 802.11ac20	



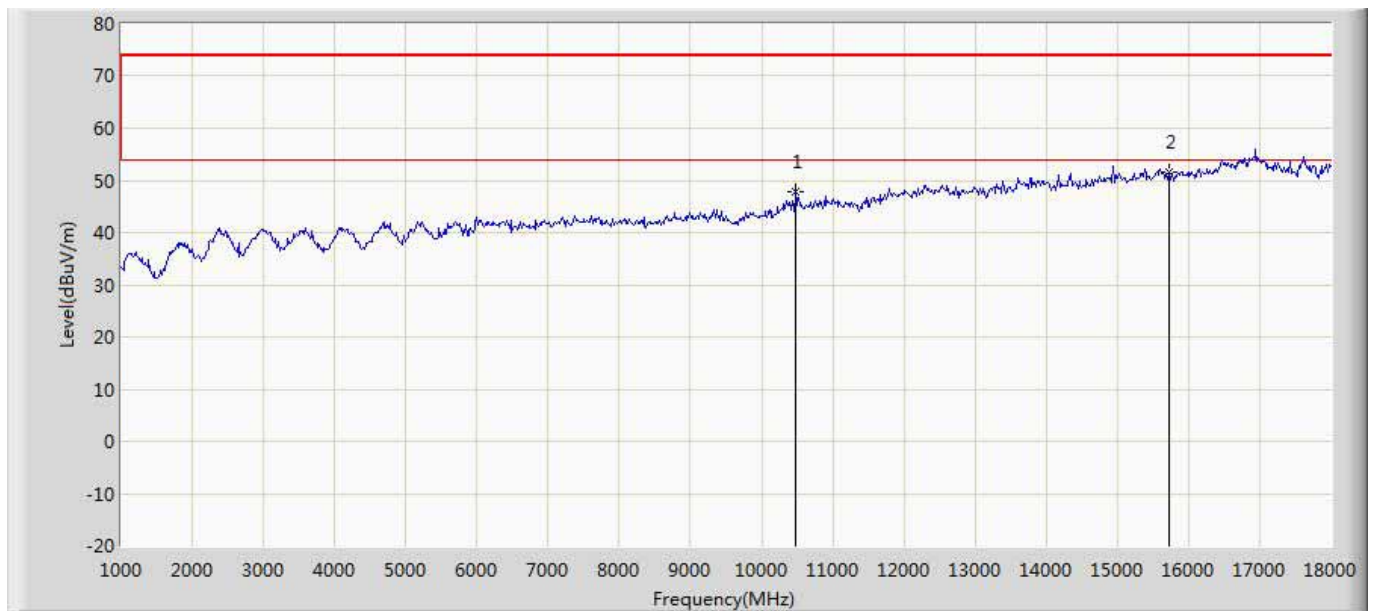
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10440.000	47.901	35.469	-26.099	74.000	12.432	PK
2	*	15660.000	51.857	33.611	-22.143	74.000	18.246	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 15:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 4:Transmit 5220MHz by 802.11ac20	



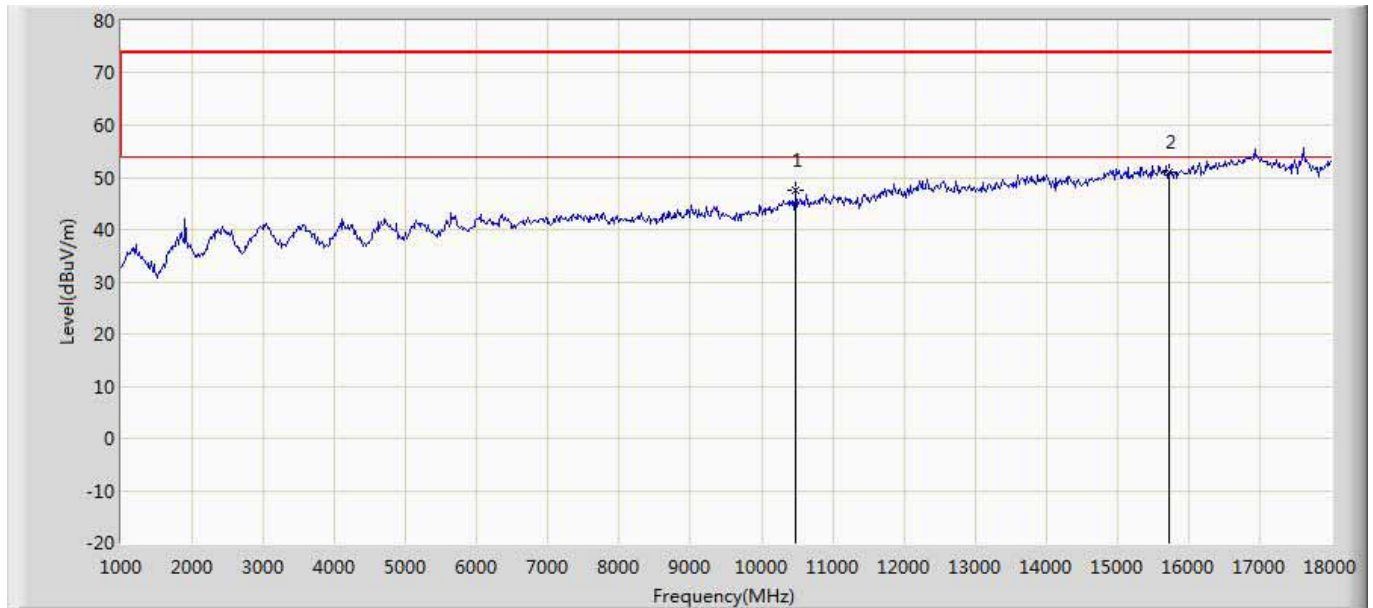
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10440.000	47.295	34.863	-26.705	74.000	12.432	PK
2	*	15660.000	51.015	32.769	-22.985	74.000	18.246	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 15:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 4:Transmit 5240MHz by 802.11ac20	



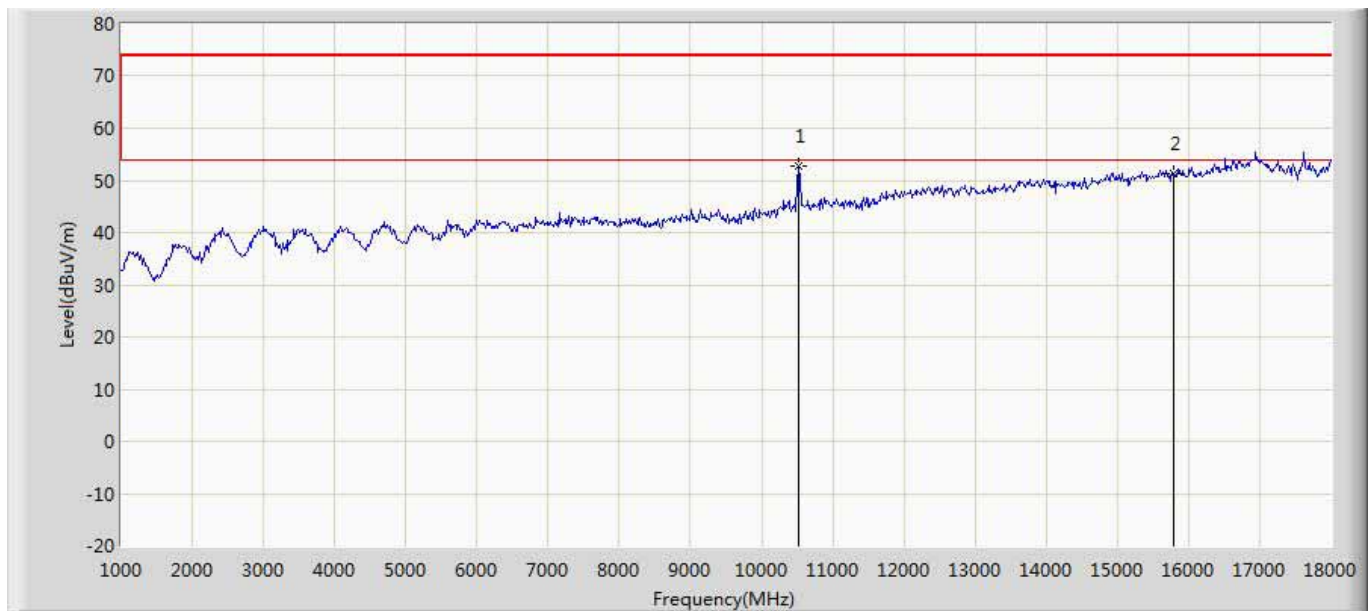
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10480.000	47.858	35.797	-26.142	74.000	12.061	PK
2	*	15720.000	51.514	33.389	-22.486	74.000	18.125	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 15:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 4:Transmit 5240MHz by 802.11ac20	



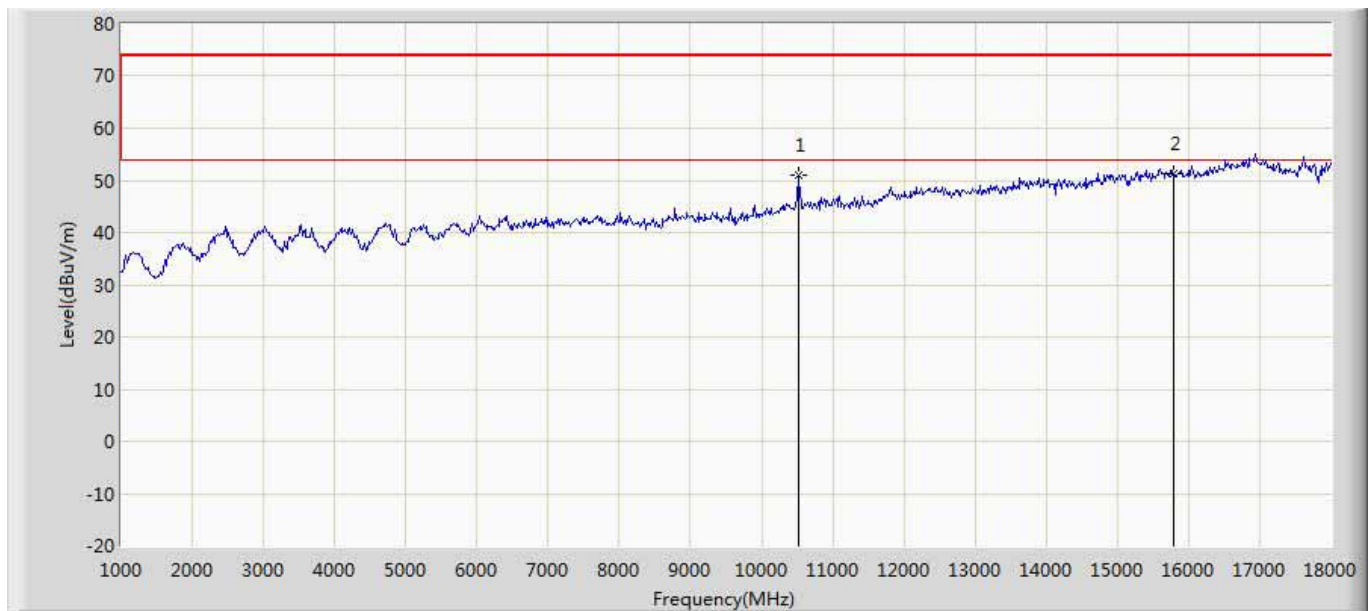
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10480.000	47.475	35.414	-26.525	74.000	12.061	PK
2	*	15720.000	51.158	33.034	-22.842	74.000	18.125	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 15:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 4:Transmit 5260MHz by 802.11ac20	



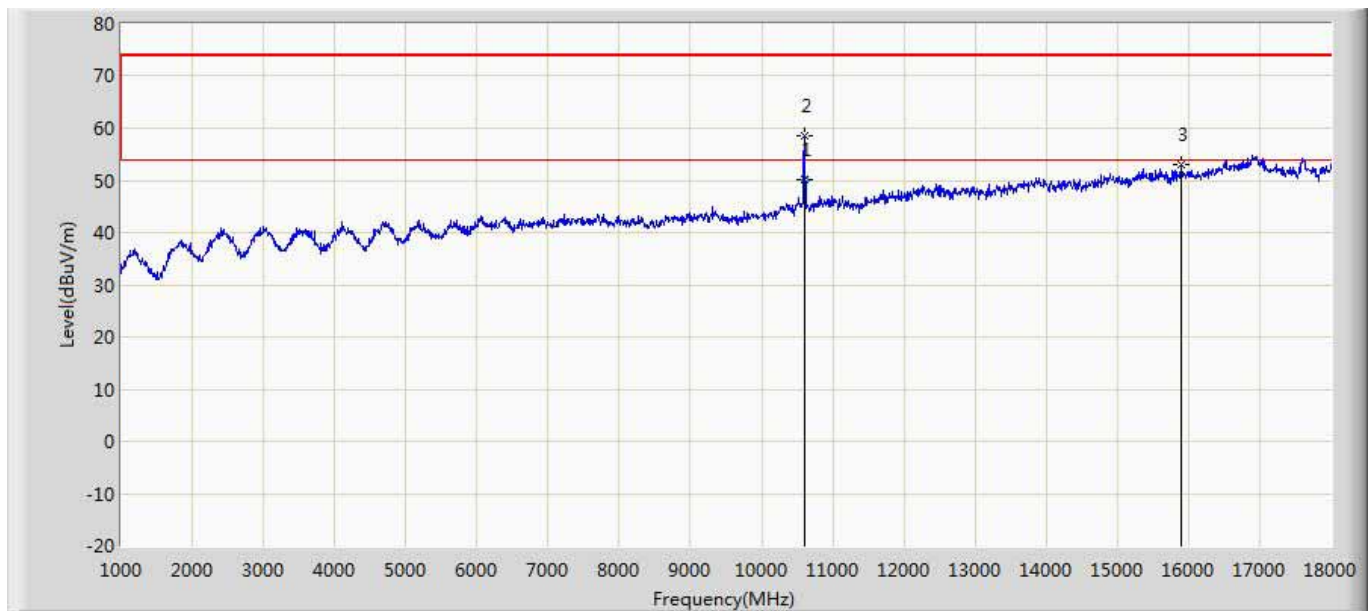
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10520.000	52.622	39.823	-21.378	74.000	12.799	PK
2		15780.000	51.340	33.189	-22.660	74.000	18.151	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 15:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 4:Transmit 5260MHz by 802.11ac20	



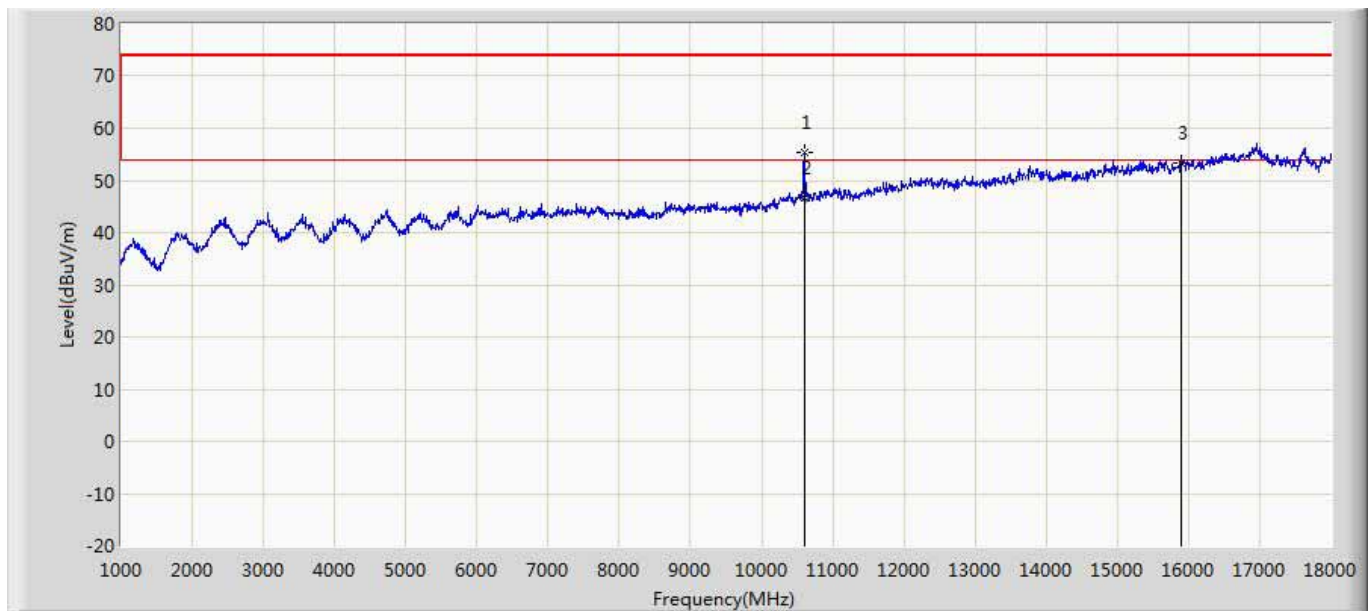
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10520.000	50.959	38.160	-23.041	74.000	12.799	PK
2	*	15780.000	51.442	33.291	-22.558	74.000	18.151	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 15:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 4:Transmit 5300MHz by 802.11ac20	



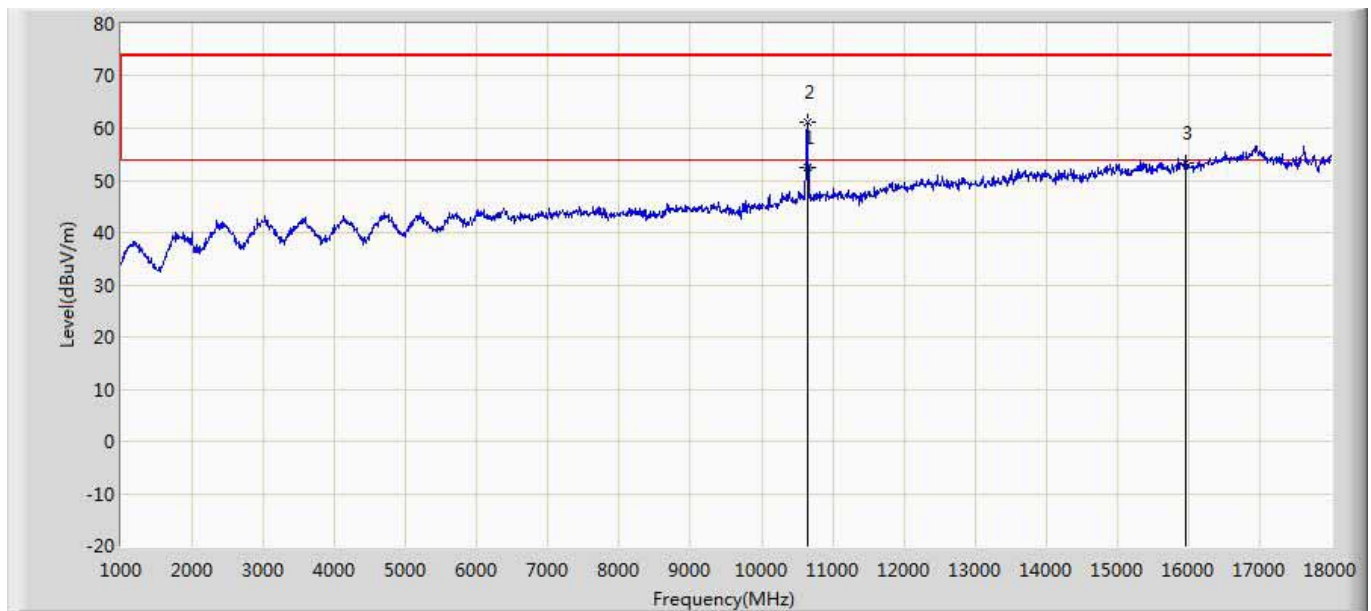
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10600.000	50.005	37.564	-3.995	54.000	12.440	AV
2		10605.000	58.546	46.130	-15.454	74.000	12.416	PK
3		15900.000	53.143	34.482	-20.857	74.000	18.661	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 15:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 4:Transmit 5300MHz by 802.11ac20	



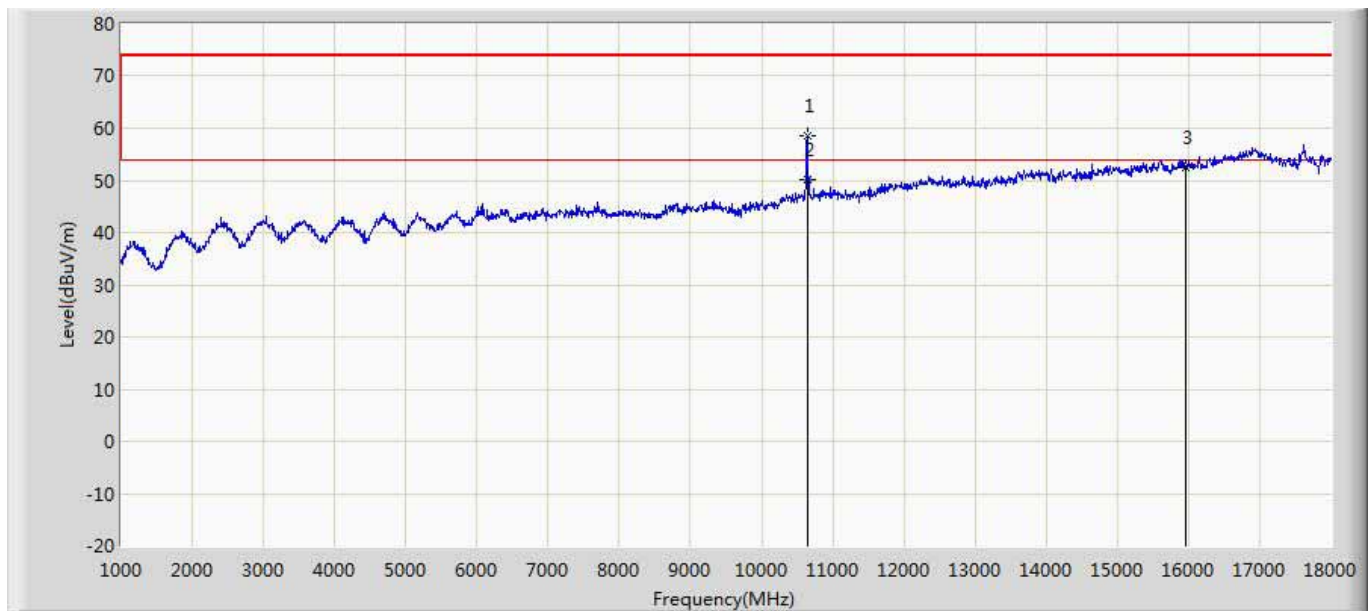
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10596.500	55.422	42.964	-18.578	74.000	12.458	PK
2	*	10600.000	46.603	34.162	-7.397	54.000	12.440	AV
3		15900.000	53.403	34.742	-20.597	74.000	18.661	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 15:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 4:Transmit 5320MHz by 802.11ac20	



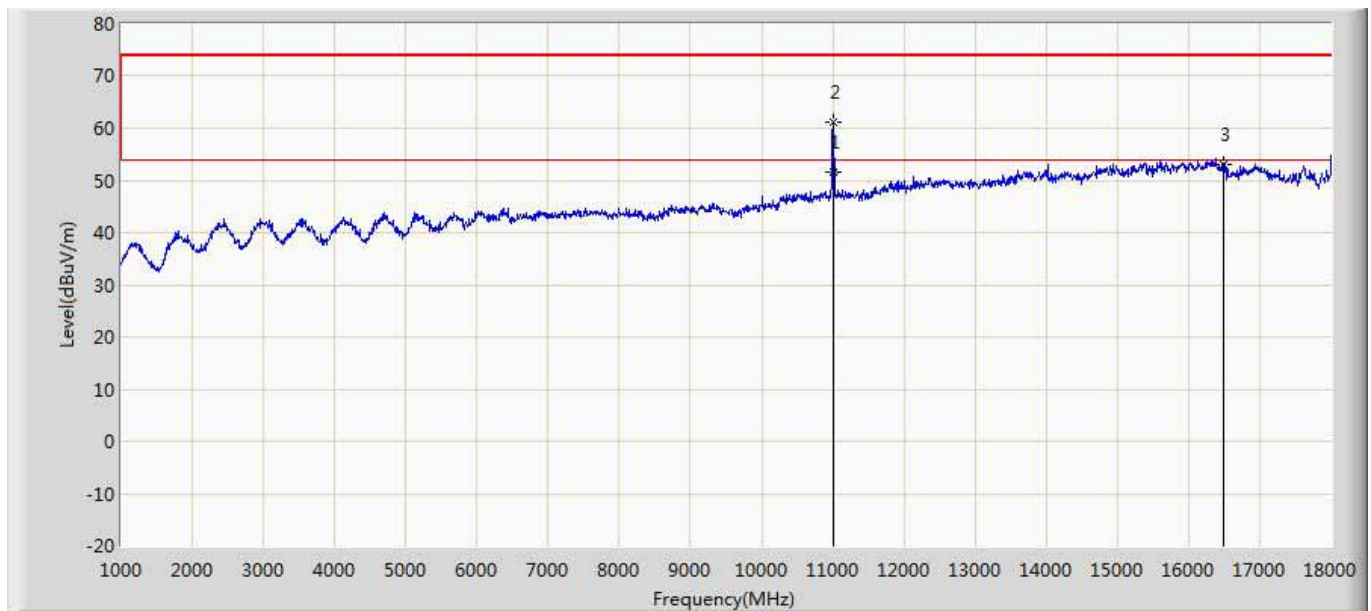
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10640.000	52.421	39.877	-1.579	54.000	12.544	AV
2		10647.500	61.272	48.630	-12.728	74.000	12.642	PK
3		15960.000	53.282	35.621	-20.718	74.000	17.661	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 15:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 4:Transmit 5320MHz by 802.11ac20	



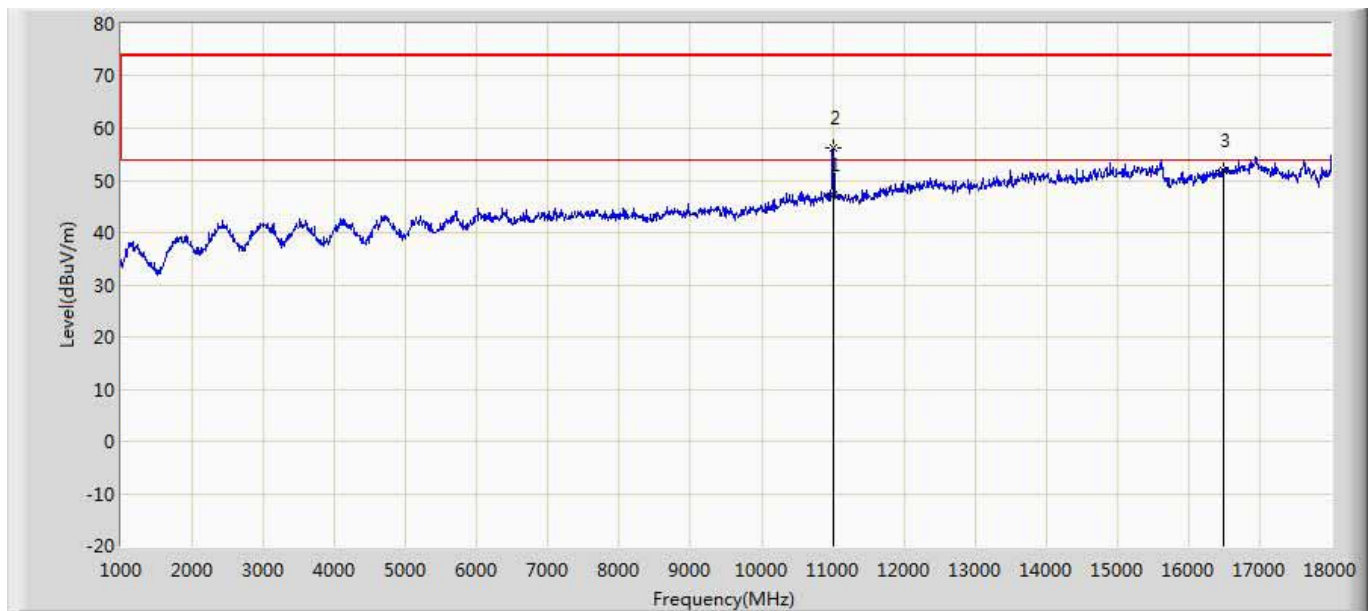
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10639.000	58.520	45.990	-15.480	74.000	12.530	PK
2	*	10640.000	50.107	37.563	-3.893	54.000	12.544	AV
3		15960.000	52.585	34.924	-21.415	74.000	17.661	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 15:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 4:Transmit 5500MHz by 802.11ac20	



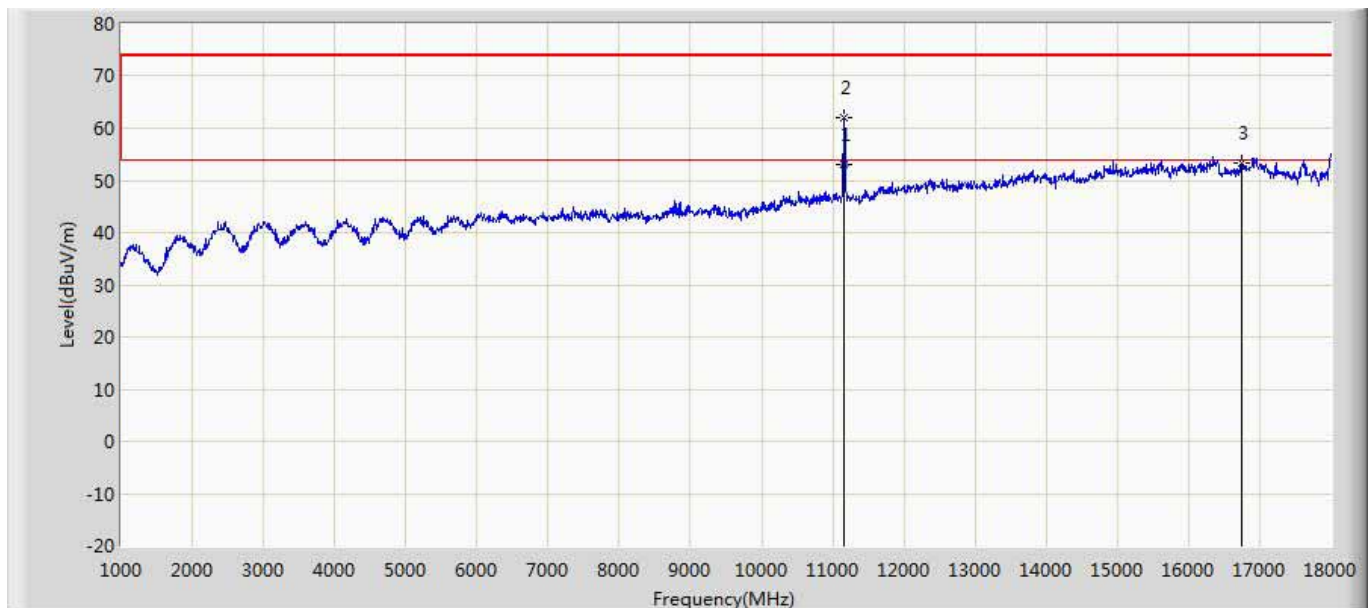
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11000.000	51.605	38.566	-2.395	54.000	13.039	AV
2		11004.500	61.124	47.791	-12.876	74.000	13.333	PK
3		16500.000	53.143	34.154	-20.857	74.000	18.989	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 15:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 4:Transmit 5500MHz by 802.11ac20	



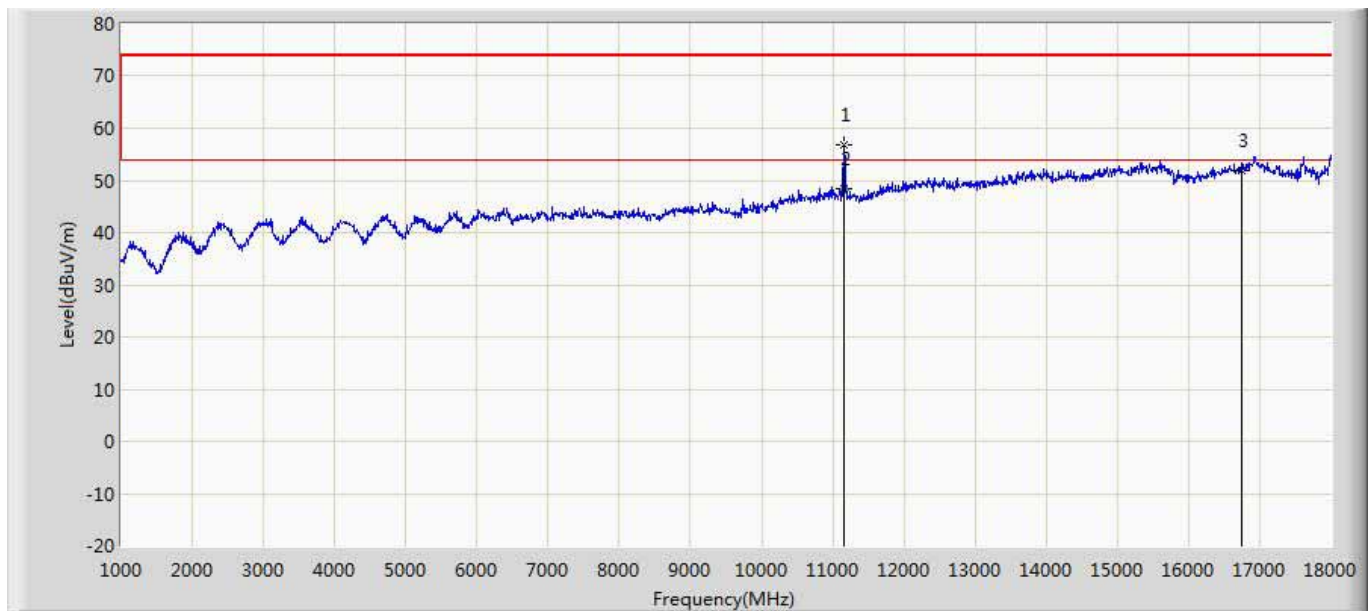
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11000.000	47.196	34.157	-6.804	54.000	13.039	AV
2		11004.500	56.369	43.036	-17.631	74.000	13.333	PK
3		16500.000	51.860	32.871	-22.140	74.000	18.989	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 15:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 4:Transmit 5580MHz by 802.11ac20	



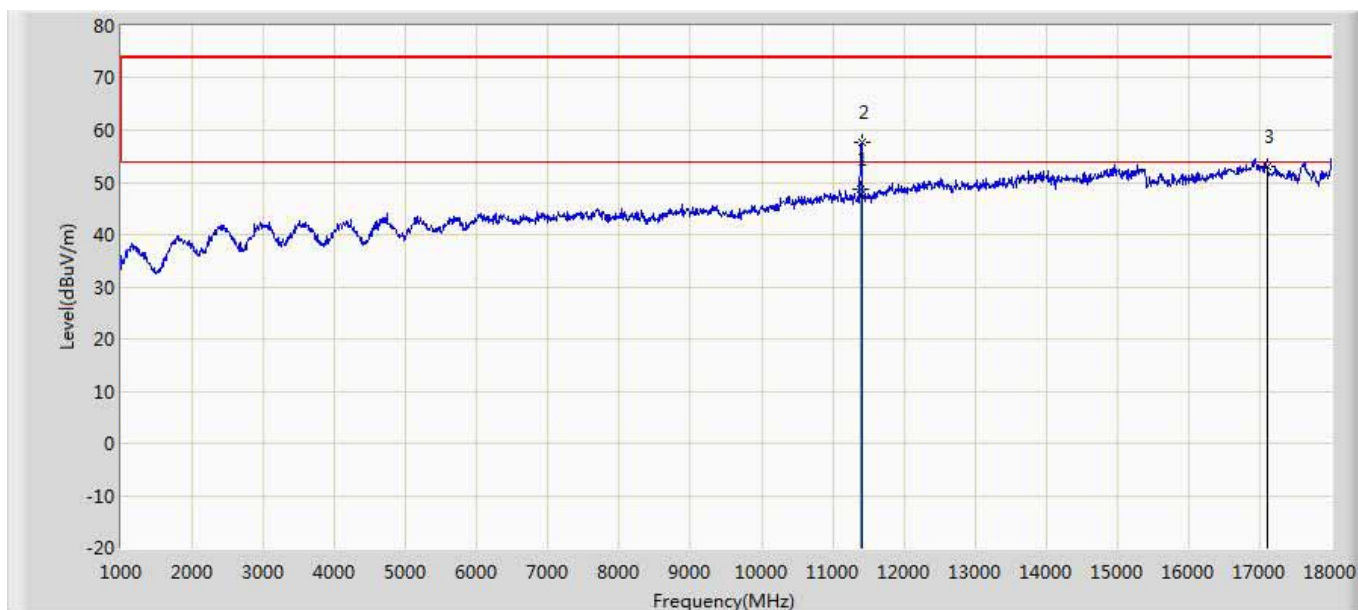
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11160.000	52.913	39.478	-1.087	54.000	13.436	AV
2		11166.000	61.983	48.565	-12.017	74.000	13.418	PK
3		16740.000	53.202	33.926	-20.798	74.000	19.276	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 15:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 4:Transmit 5580MHz by 802.11ac20	



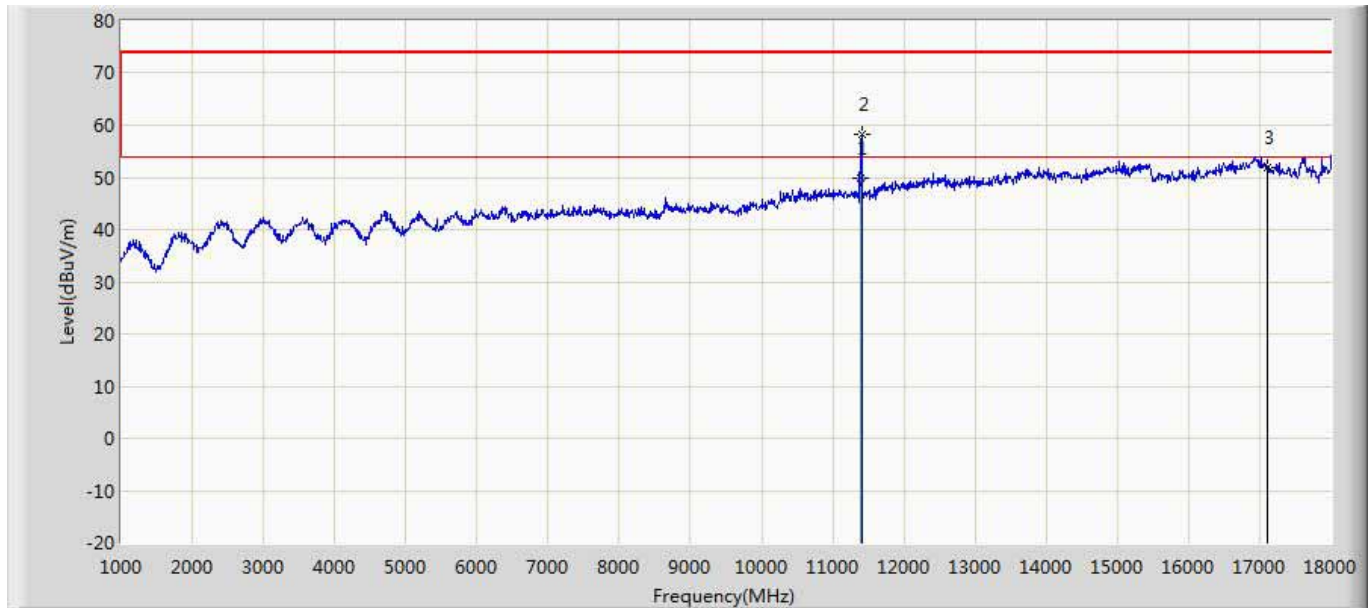
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11157.500	56.681	43.239	-17.319	74.000	13.442	PK
2	*	11160.000	48.462	35.027	-5.538	54.000	13.436	AV
3		16740.000	51.992	32.716	-22.008	74.000	19.276	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 15:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 4:Transmit 5700MHz by 802.11ac20	



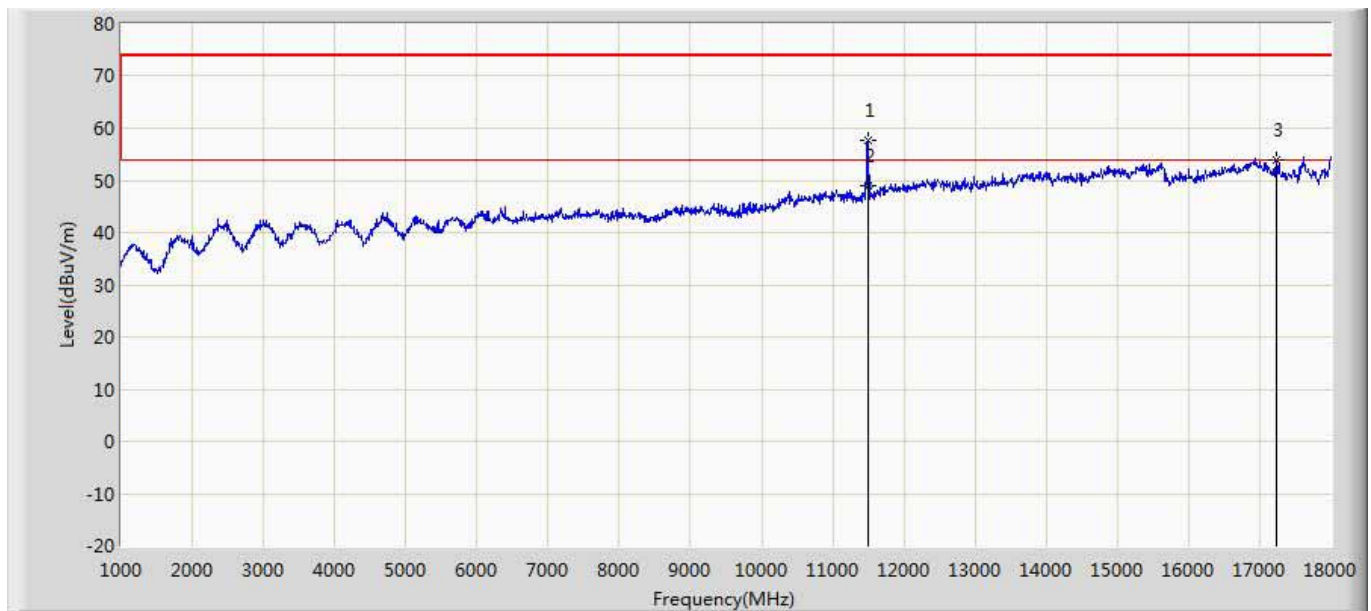
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11400.000	48.593	34.637	-5.407	54.000	13.957	AV
2		11404.000	57.624	43.795	-16.376	74.000	13.829	PK
3		17100.000	52.964	33.028	-21.036	74.000	19.936	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 15:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 4:Transmit 5700MHz by 802.11ac20	



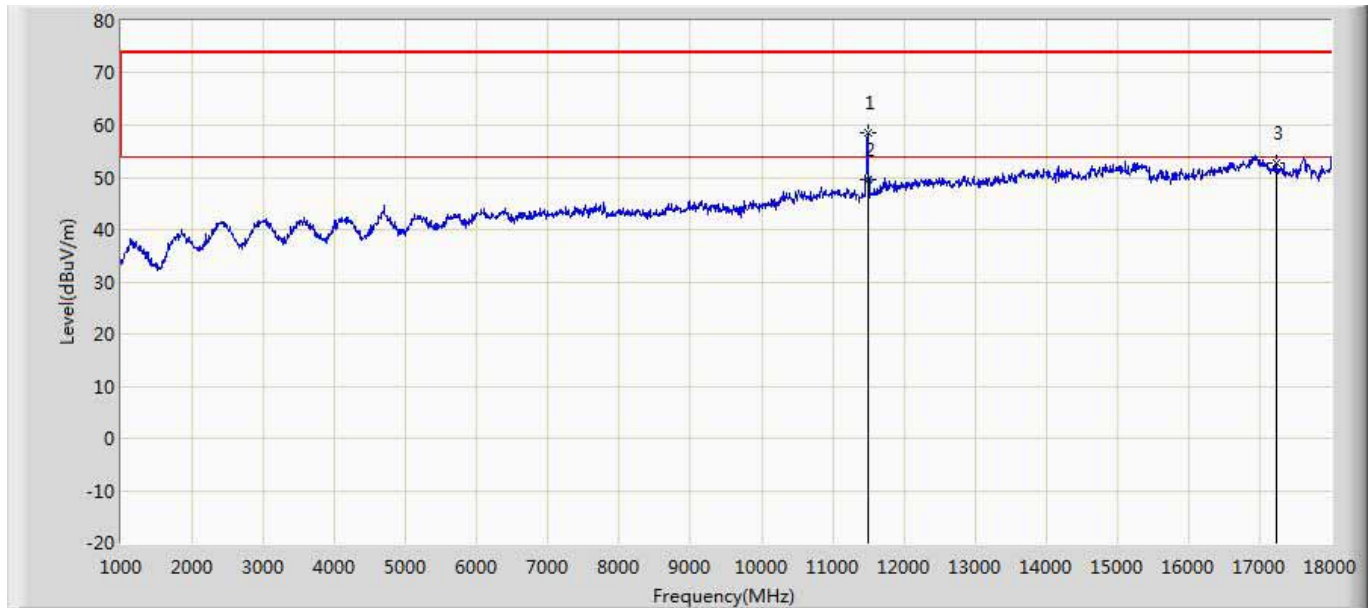
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11400.000	49.799	35.843	-4.201	54.000	13.957	AV
2		11404.000	58.305	44.476	-15.695	74.000	13.829	PK
3		17100.000	51.904	31.968	-22.096	74.000	19.936	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 15:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 4:Transmit 5745MHz by 802.11ac20	



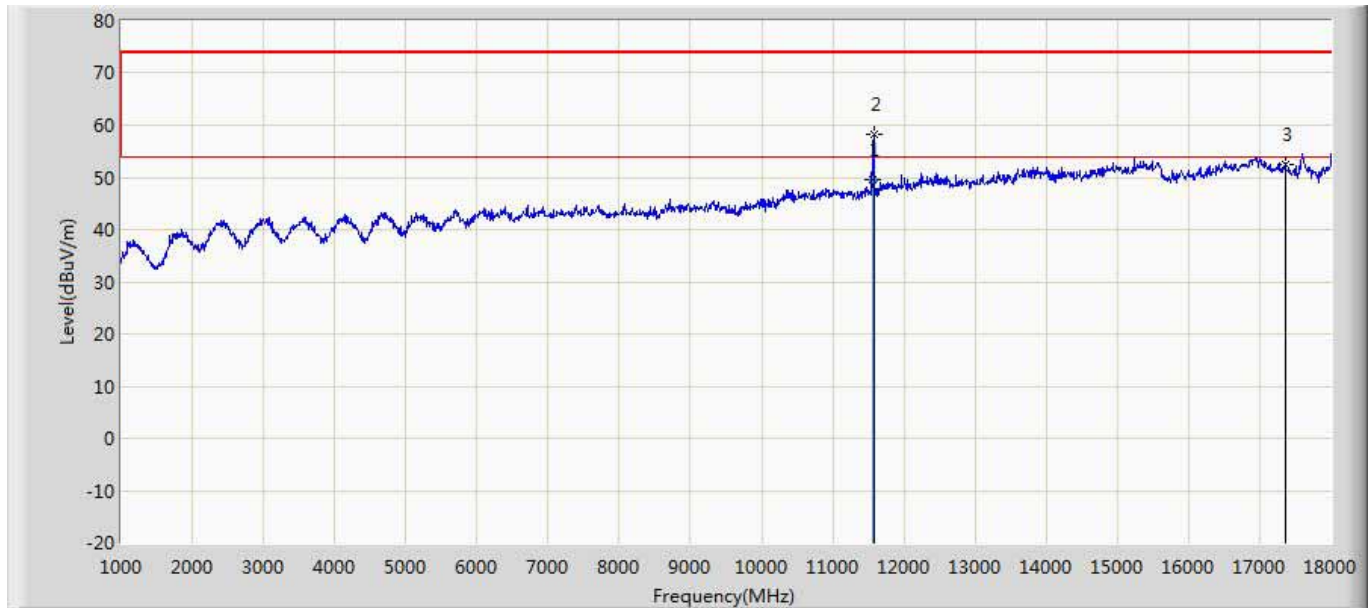
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11489.000	57.740	44.090	-16.260	74.000	13.650	PK
2	*	11490.000	49.119	35.418	-4.881	54.000	13.700	AV
3		17235.000	53.796	33.806	-20.204	74.000	19.990	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 15:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 4:Transmit 5745MHz by 802.11ac20	



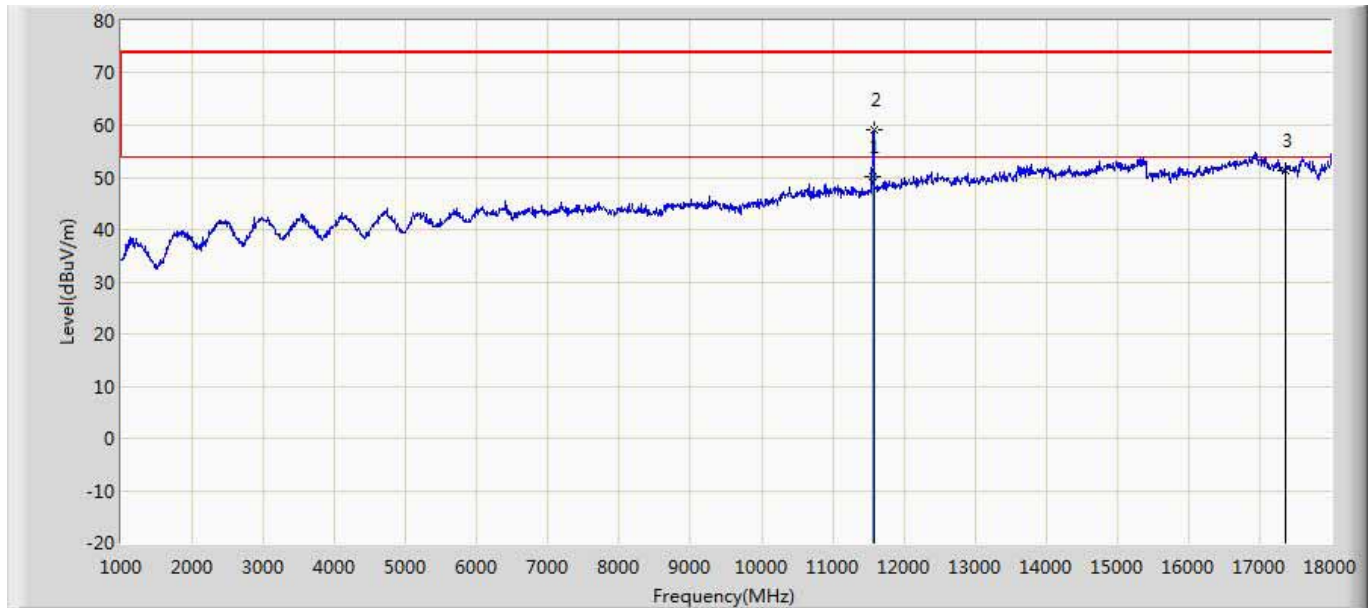
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11489.000	58.500	44.850	-15.500	74.000	13.650	PK
2	*	11490.000	49.443	35.742	-4.557	54.000	13.700	AV
3		17235.000	52.678	32.688	-21.322	74.000	19.990	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 15:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 4:Transmit 5785MHz by 802.11ac20	



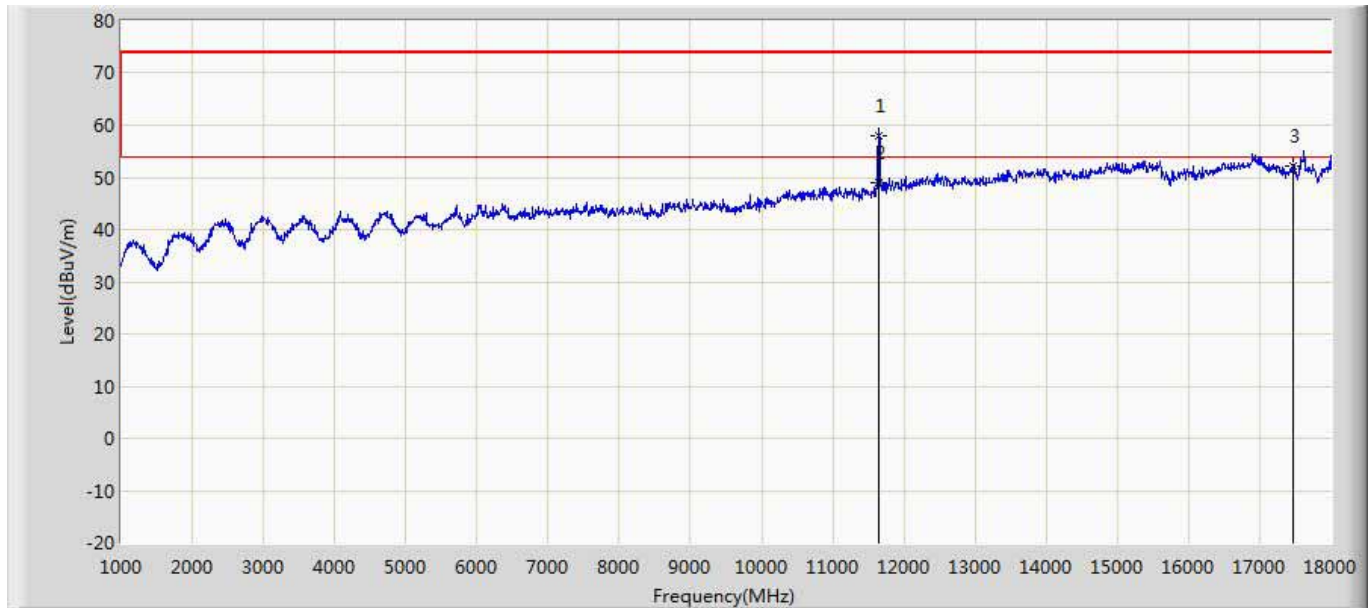
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11570.000	49.704	35.647	-4.296	54.000	14.057	AV
2		11574.000	58.391	44.341	-15.609	74.000	14.050	PK
3		17355.000	52.369	33.047	-21.631	74.000	19.322	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 15:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 4:Transmit 5785MHz by 802.11ac20	



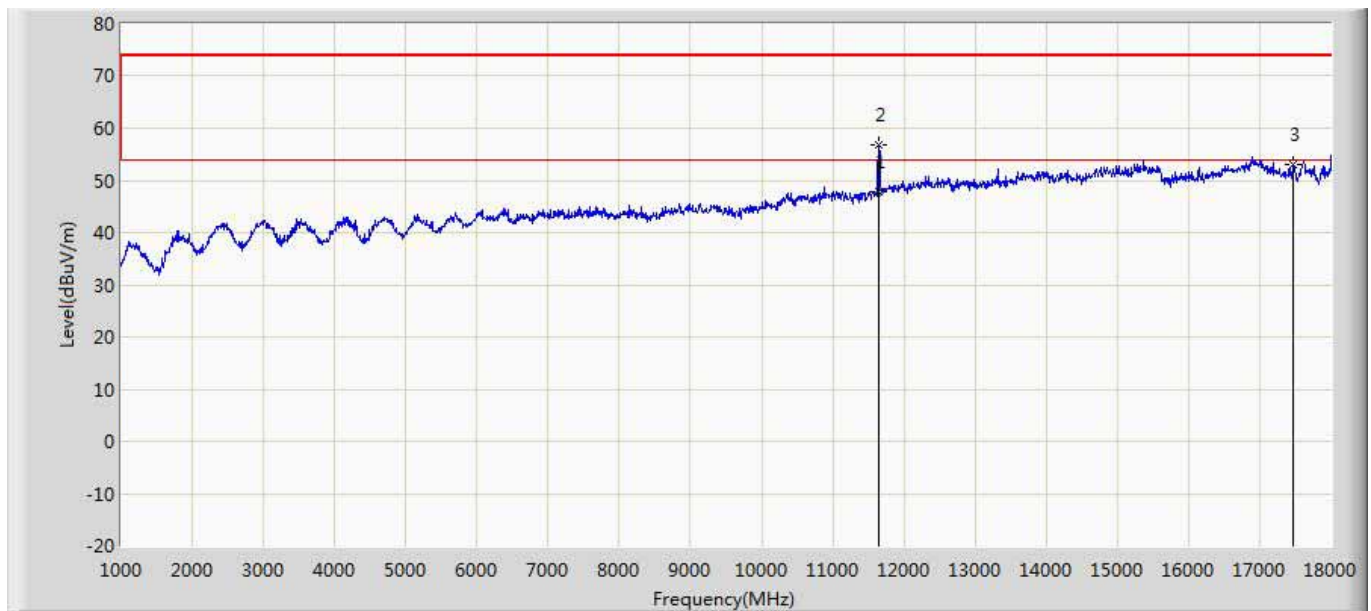
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11570.000	50.202	36.145	-3.798	54.000	14.057	AV
2		11574.000	59.167	45.117	-14.833	74.000	14.050	PK
3		17355.000	51.246	31.924	-22.754	74.000	19.322	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 15:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 4:Transmit 5825MHz by 802.11ac20	



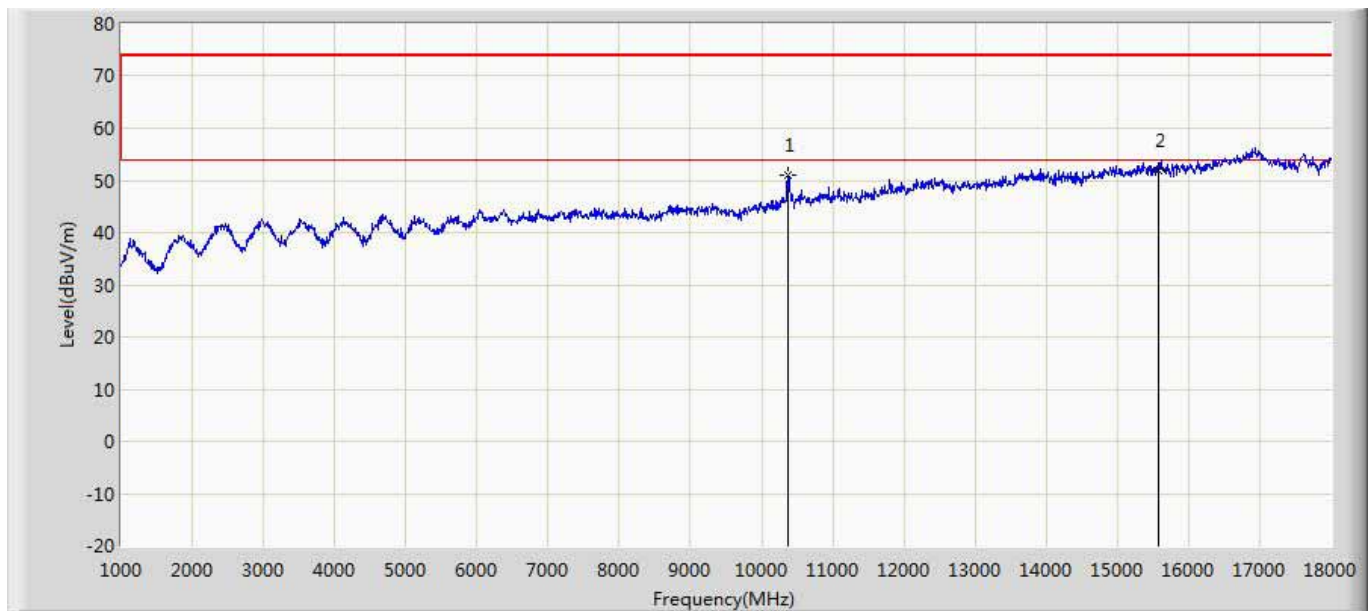
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11642.000	57.968	43.494	-16.032	74.000	14.474	PK
2	*	11650.000	48.914	34.563	-5.086	54.000	14.352	AV
3		17475.000	52.228	32.687	-21.772	74.000	19.541	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 15:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 4:Transmit 5825MHz by 802.11ac20	



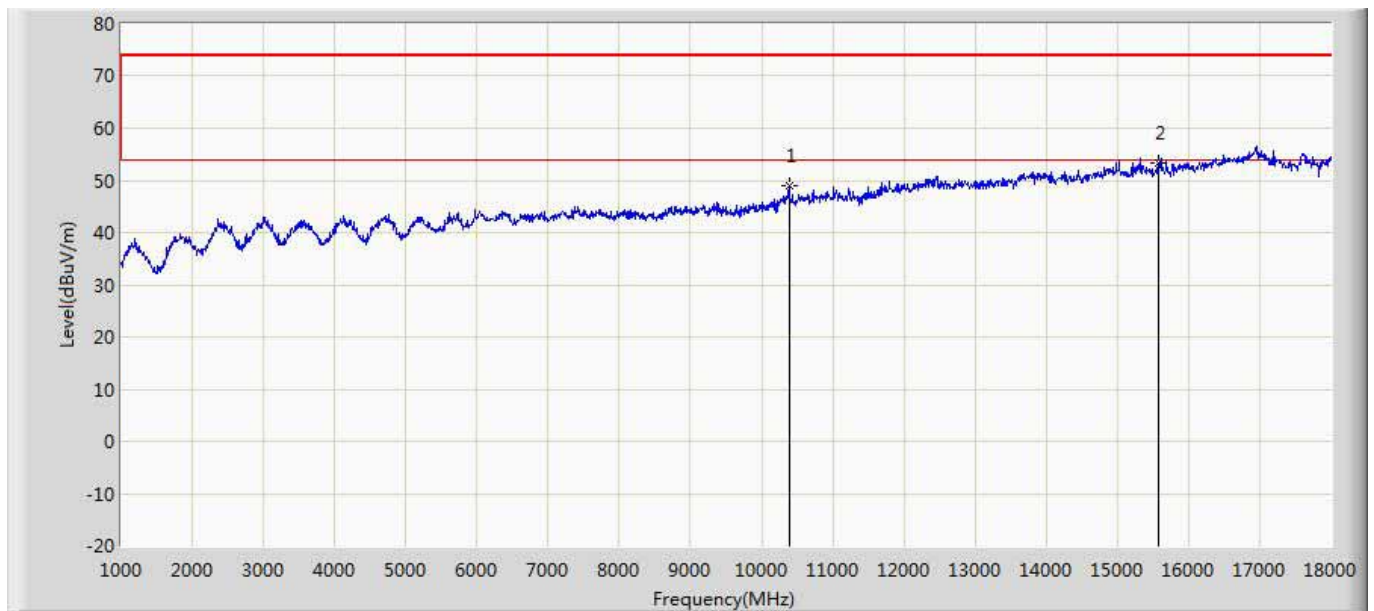
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11650.000	47.823	33.472	-6.177	54.000	14.352	AV
2		11650.500	56.908	42.565	-17.092	74.000	14.343	PK
3		17475.000	53.149	33.608	-20.851	74.000	19.541	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 16:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 5:Transmit 5190MHz by 802.11ac40	



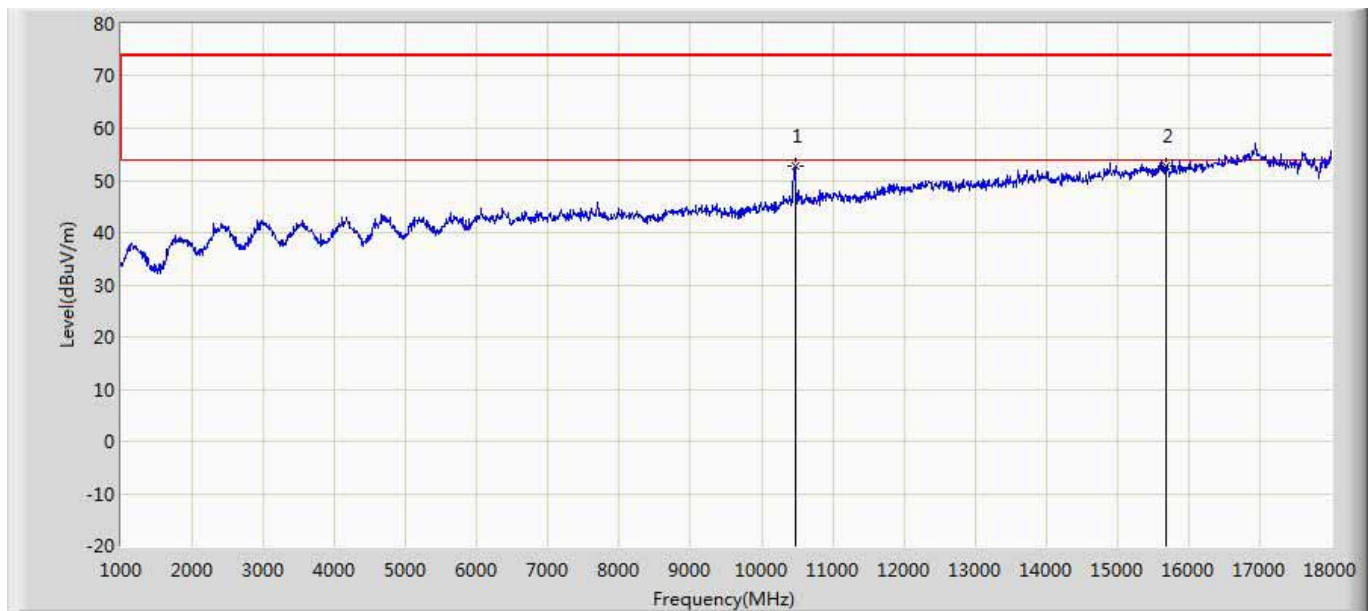
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10375.500	51.125	39.195	-22.875	74.000	11.930	PK
2	*	15570.000	51.964	33.624	-22.036	74.000	18.340	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 16:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 5:Transmit 5190MHz by 802.11ac40	



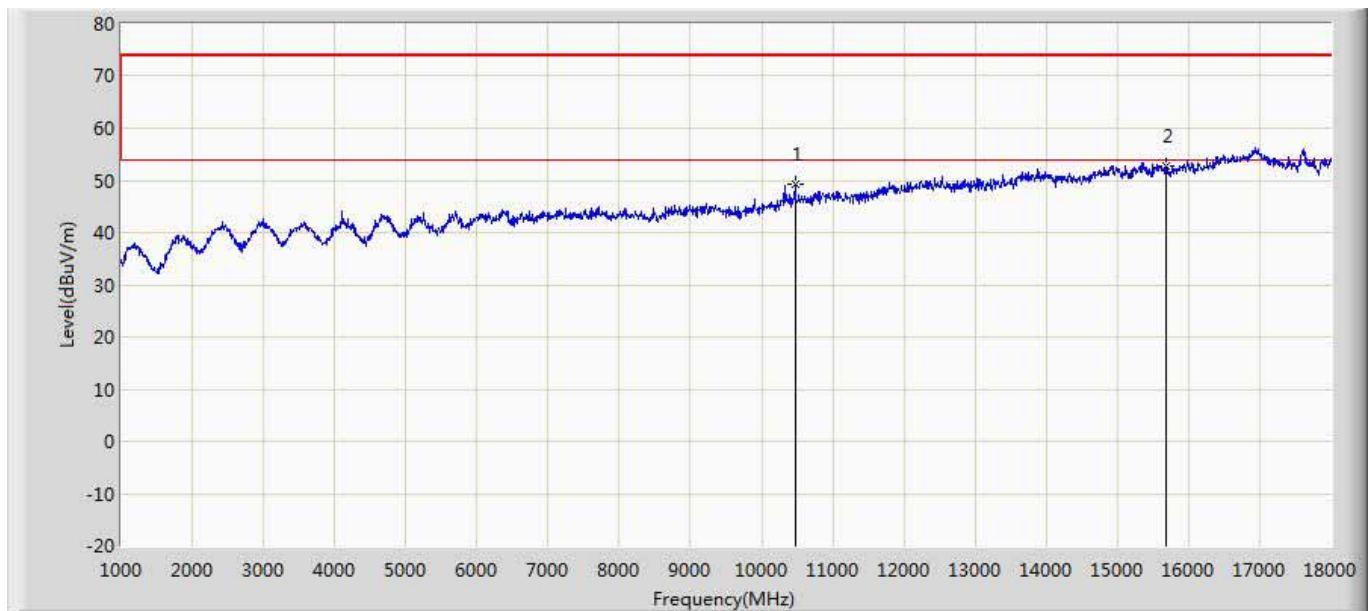
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10384.000	49.118	37.117	-24.882	74.000	12.001	PK
2	*	15570.000	53.226	34.886	-20.774	74.000	18.340	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 16:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 5:Transmit 5230MHz by 802.11ac40	



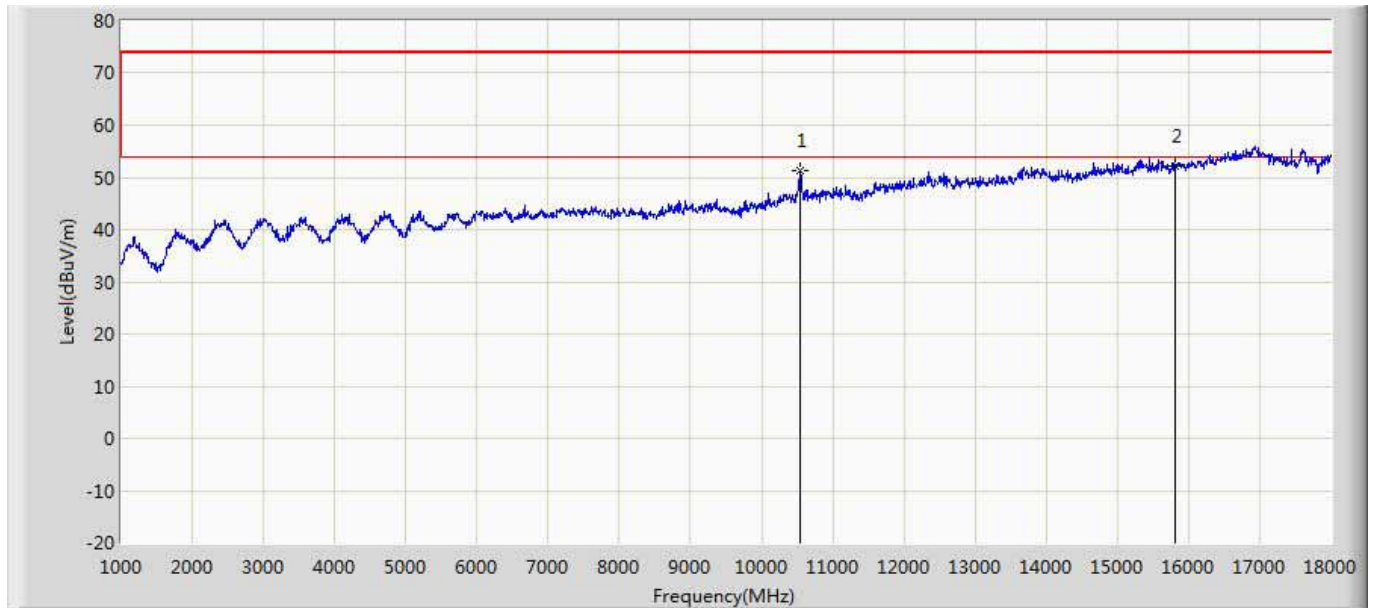
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10469.000	52.803	40.557	-21.197	74.000	12.246	PK
2	*	15690.000	52.885	34.168	-21.115	74.000	18.717	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 16:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 5:Transmit 5230MHz by 802.11ac40	



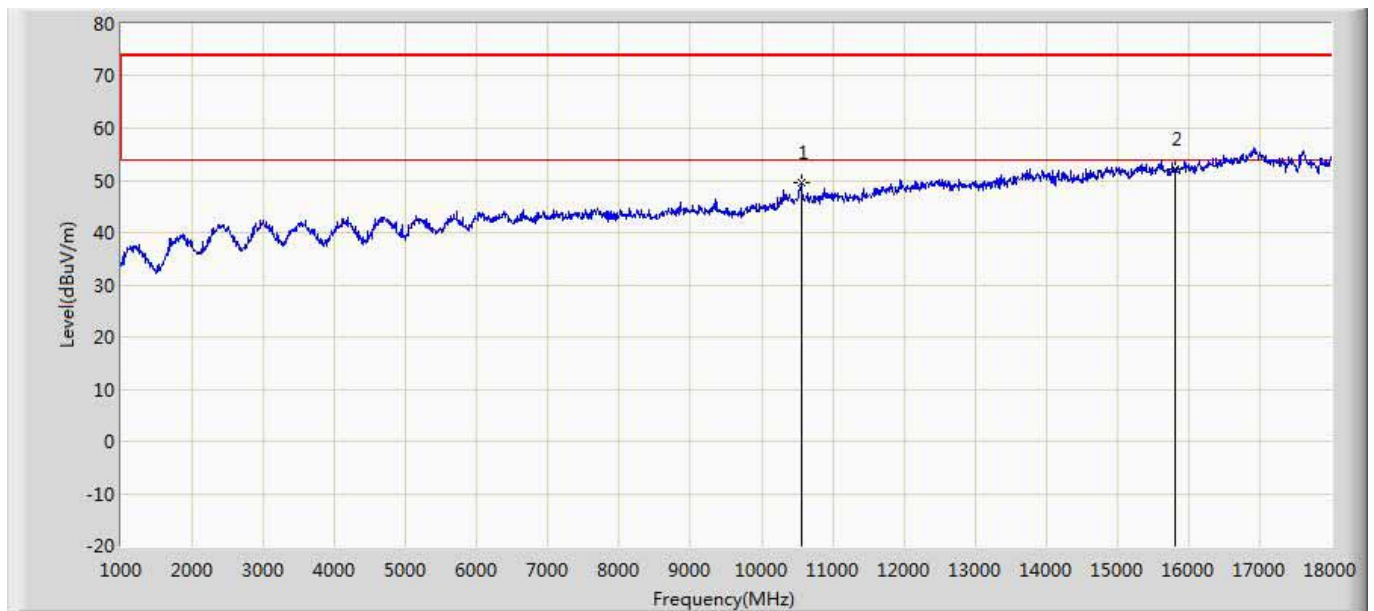
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10469.000	49.220	36.974	-24.780	74.000	12.246	PK
2	*	15690.000	52.665	33.948	-21.335	74.000	18.717	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 16:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 5:Transmit 5270MHz by 802.11ac40	



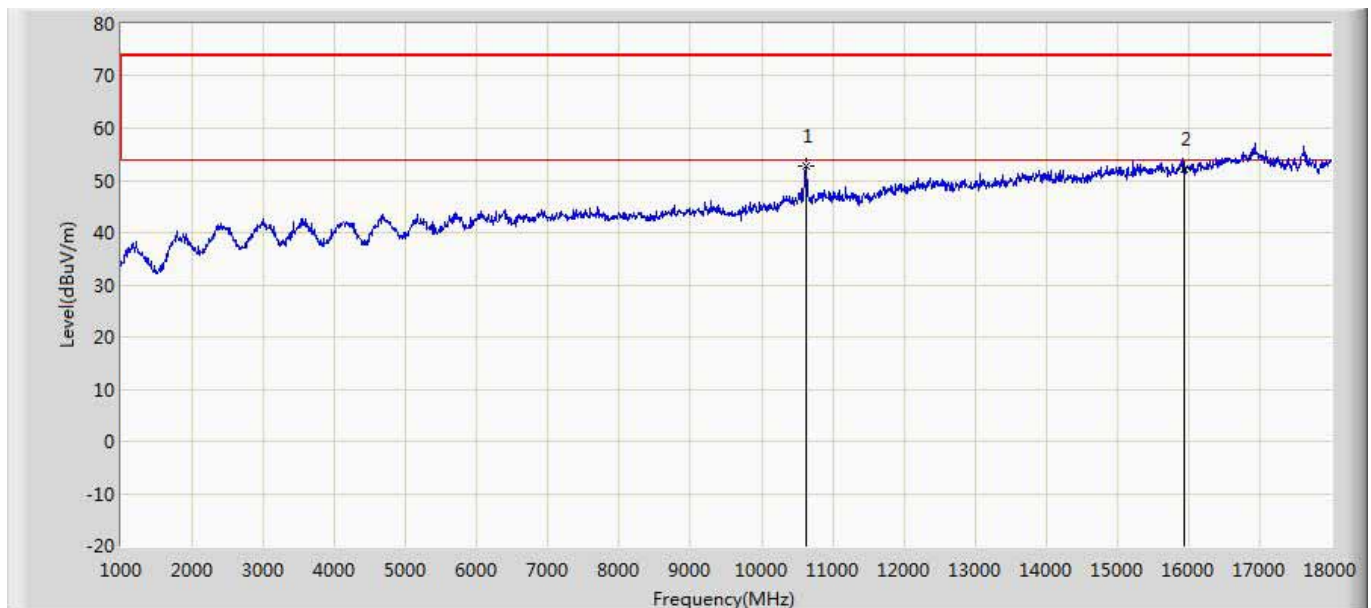
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10545.500	51.298	38.898	-22.702	74.000	12.400	PK
2	*	15810.000	52.315	34.215	-21.685	74.000	18.101	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 16:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 5:Transmit 5270MHz by 802.11ac40	



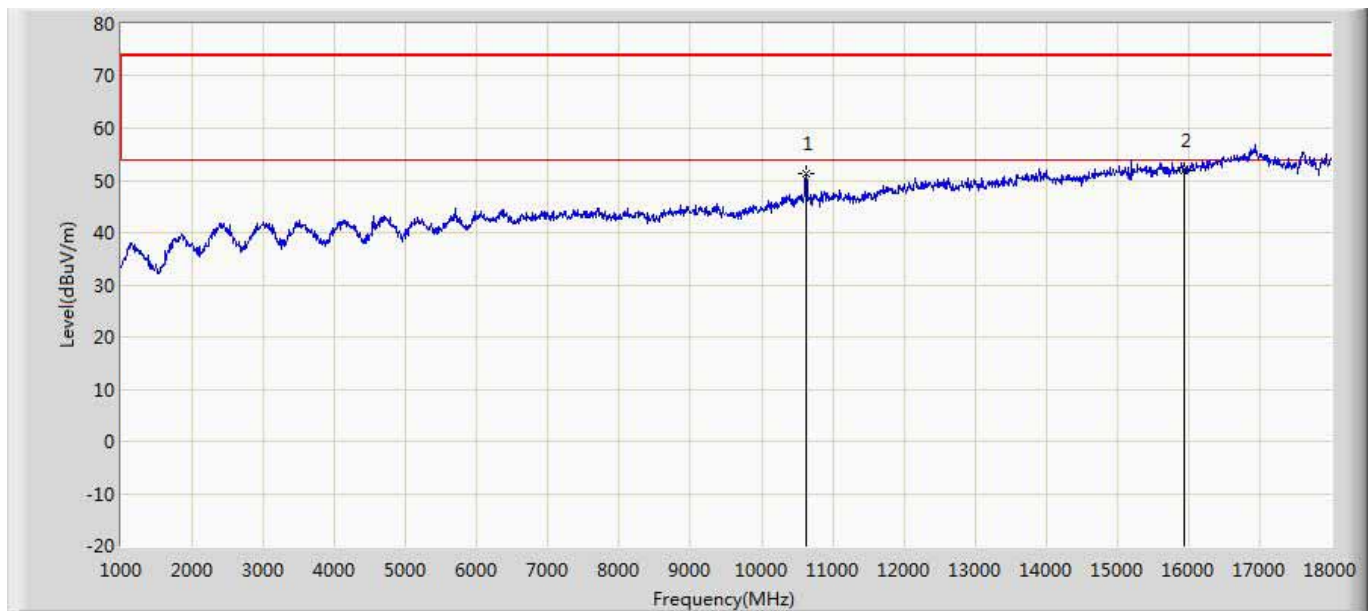
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10554.000	49.702	37.089	-24.298	74.000	12.613	PK
2	*	15810.000	52.163	34.063	-21.837	74.000	18.101	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 16:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 5:Transmit 5310MHz by 802.11ac40	



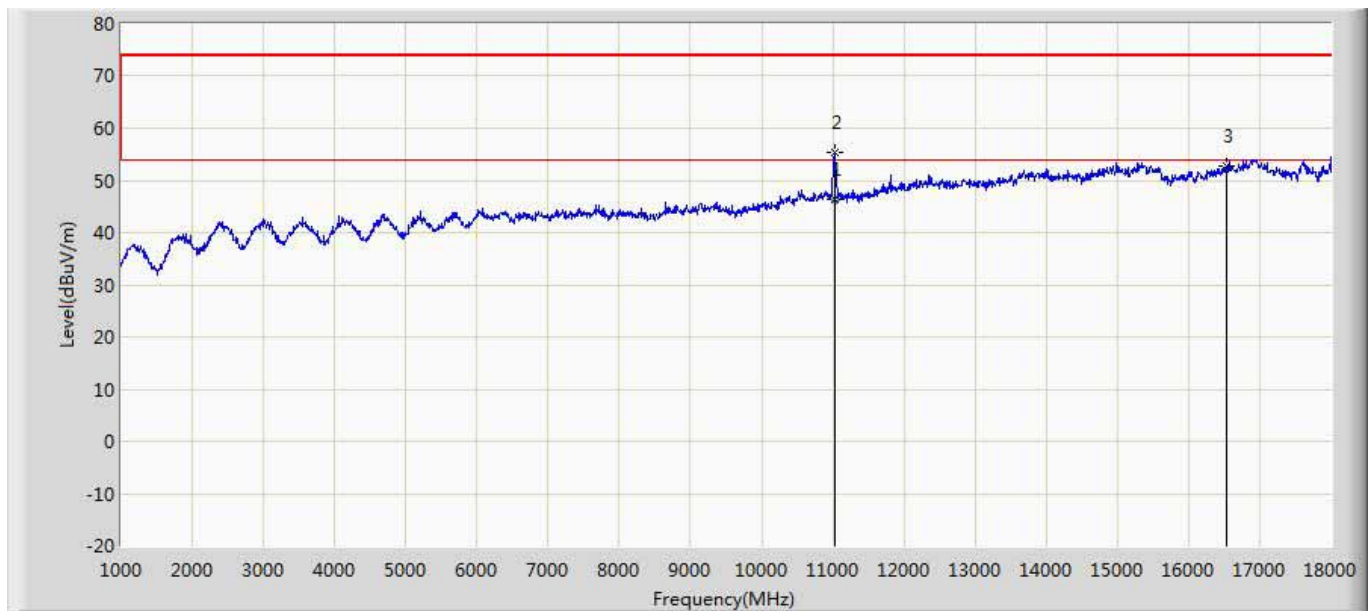
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10622.000	52.859	40.622	-21.141	74.000	12.237	PK
2		15930.000	52.199	33.804	-21.801	74.000	18.395	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 16:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 5:Transmit 5310MHz by 802.11ac40	



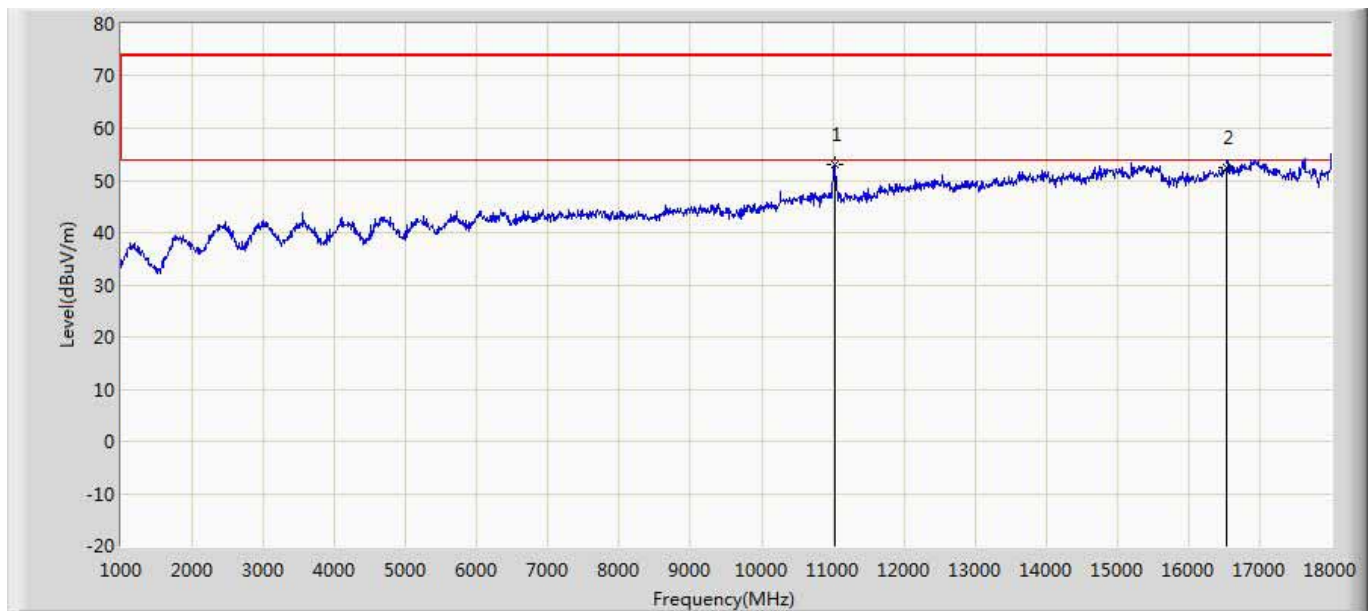
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10622.000	51.391	39.154	-22.609	74.000	12.237	PK
2	*	15930.000	52.019	33.624	-21.981	74.000	18.395	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 16:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 5:Transmit 5510MHz by 802.11ac40	



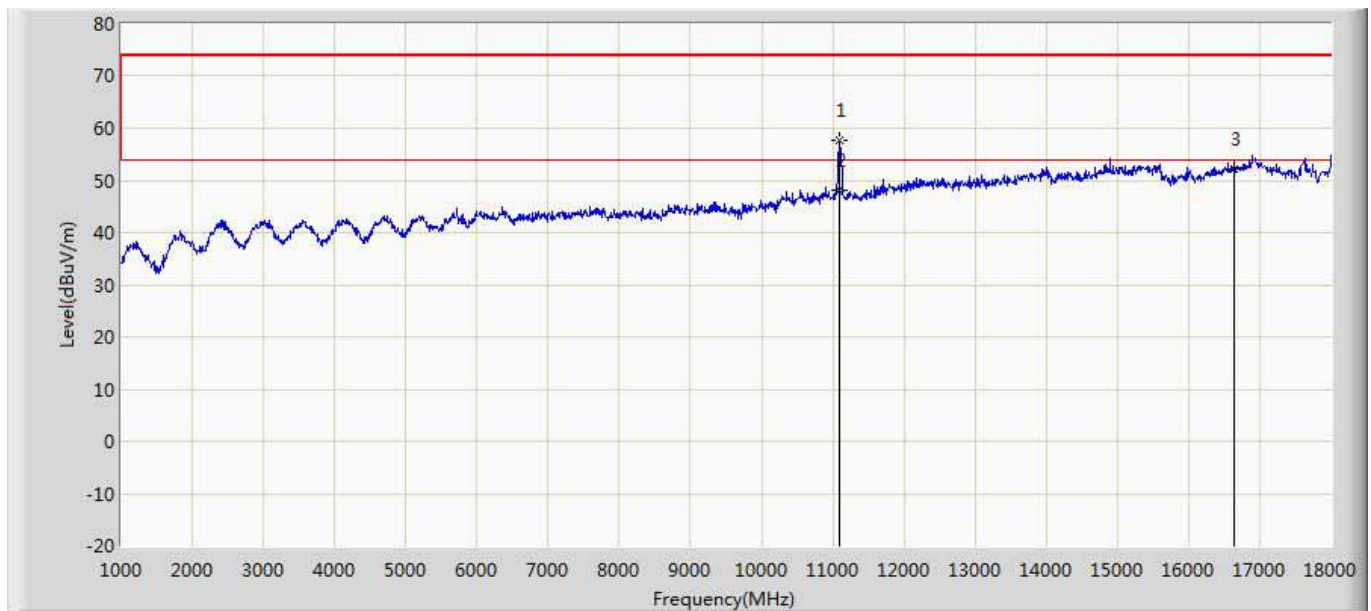
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11020.000	46.414	32.675	-7.586	54.000	13.738	AV
2		11021.500	55.248	41.541	-18.752	74.000	13.707	PK
3		16530.000	52.641	33.418	-21.359	74.000	19.223	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 16:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 5:Transmit 5510MHz by 802.11ac40	



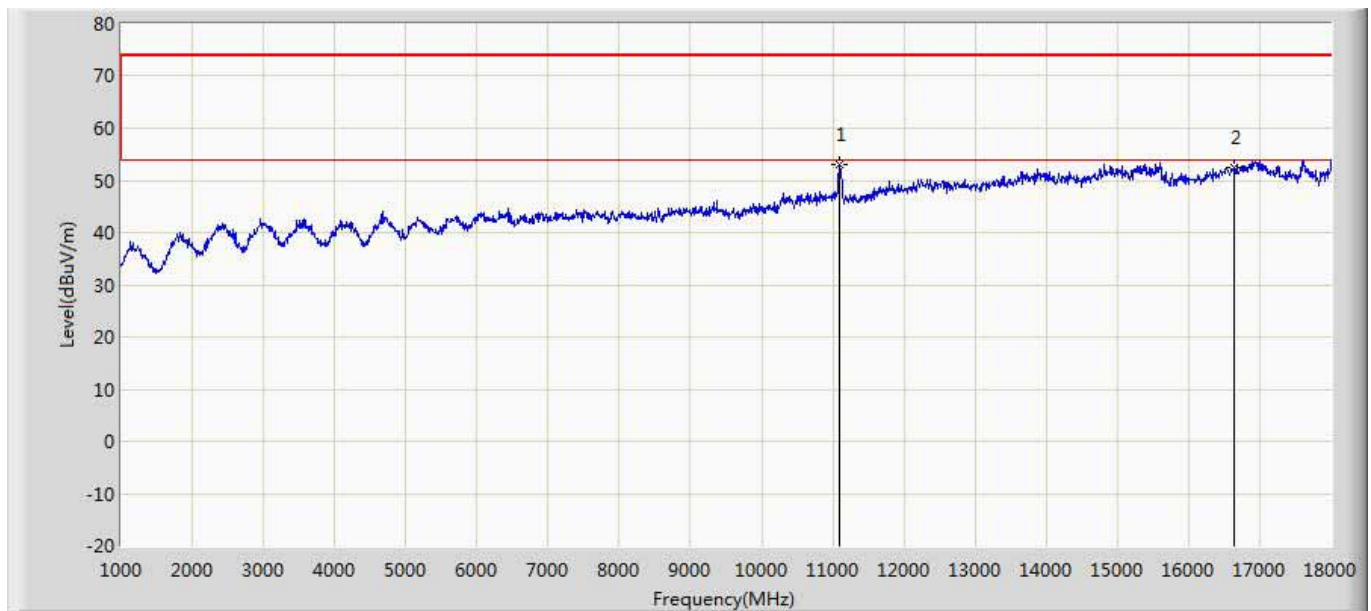
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11021.500	53.095	39.388	-20.905	74.000	13.707	PK
2		16530.000	52.350	33.127	-21.650	74.000	19.223	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 16:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 5:Transmit 5550MHz by 802.11ac40	



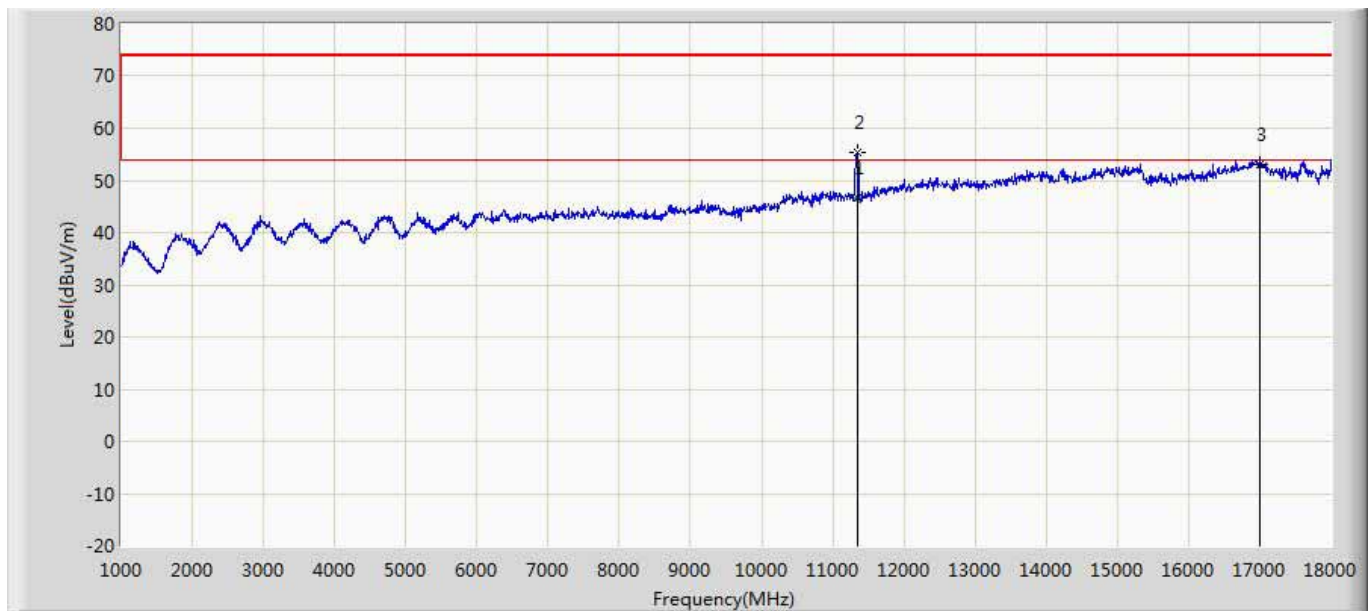
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11098.000	57.650	43.868	-16.350	74.000	13.782	PK
2	*	11100.000	48.252	34.569	-5.748	54.000	13.683	AV
3		16650.000	52.173	32.614	-21.827	74.000	19.559	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 16:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 5:Transmit 5550MHz by 802.11ac40	



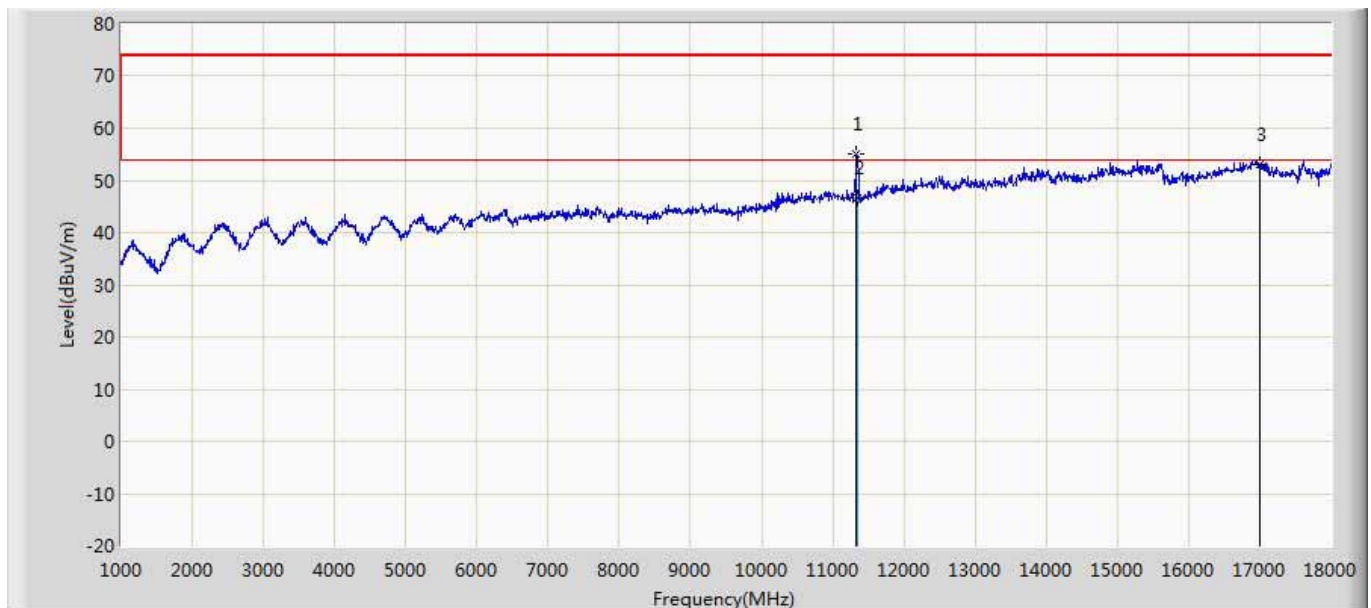
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11098.000	53.139	39.357	-20.861	74.000	13.782	PK
2		16650.000	52.370	32.811	-21.630	74.000	19.559	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 16:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 5:Transmit 5670MHz by 802.11ac40	



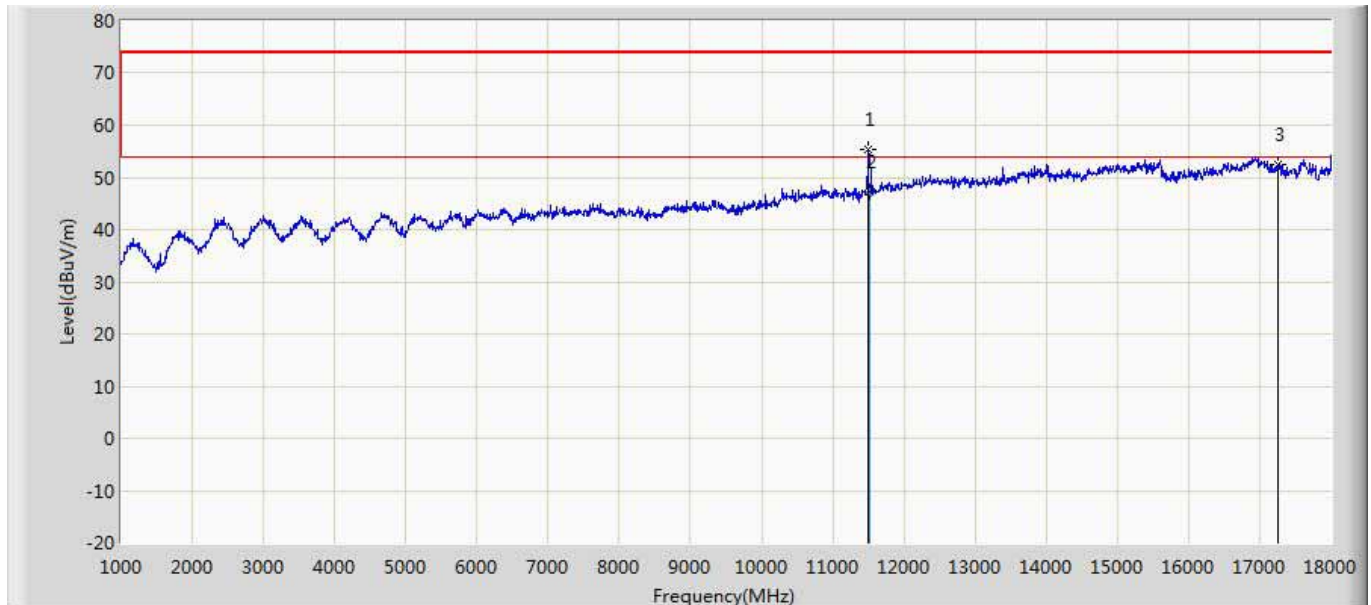
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11340.000	46.696	32.696	-7.304	54.000	13.999	AV
2		11344.500	55.459	41.375	-18.541	74.000	14.084	PK
3		17010.000	53.154	32.822	-20.846	74.000	20.333	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 16:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 5:Transmit 5670MHz by 802.11ac40	



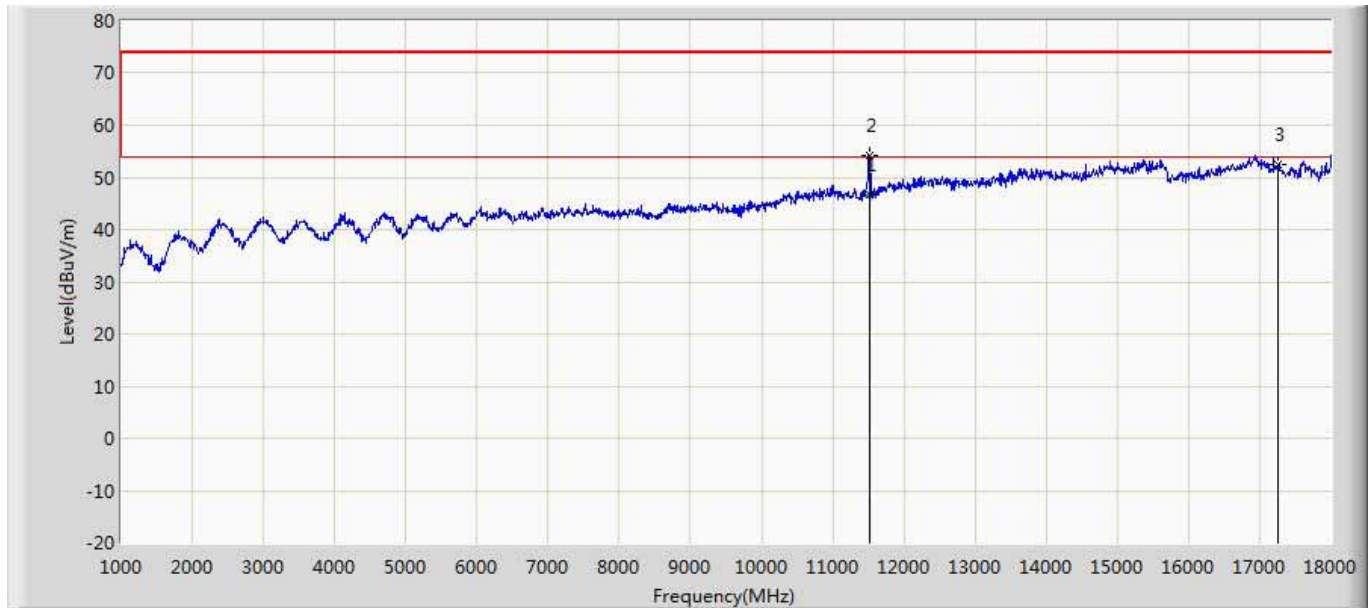
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11336.000	55.085	41.160	-18.915	74.000	13.925	PK
2	*	11340.000	46.668	32.668	-7.332	54.000	13.999	AV
3		17010.000	52.995	32.663	-21.005	74.000	20.333	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 16:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 5:Transmit 5755MHz by 802.11ac40	



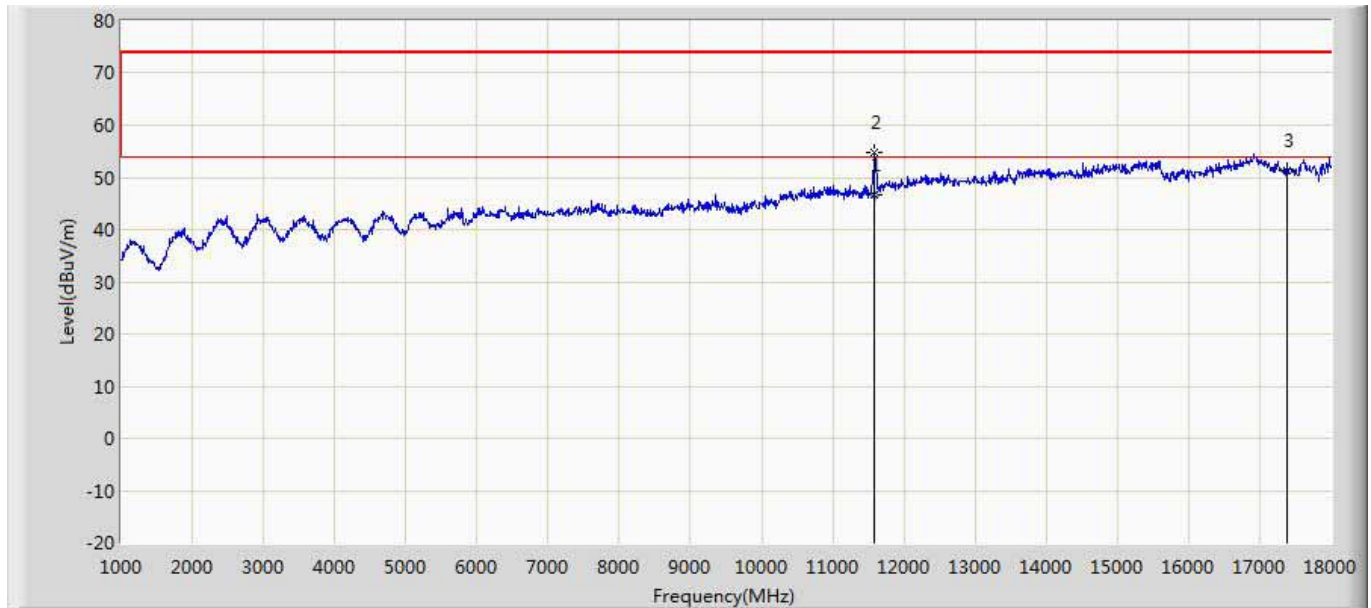
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11506.000	55.376	40.869	-18.624	74.000	14.507	PK
2	*	11510.000	47.305	32.984	-6.695	54.000	14.321	AV
3		17265.000	52.377	32.147	-21.623	74.000	20.230	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 16:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 5:Transmit 5755MHz by 802.11ac40	



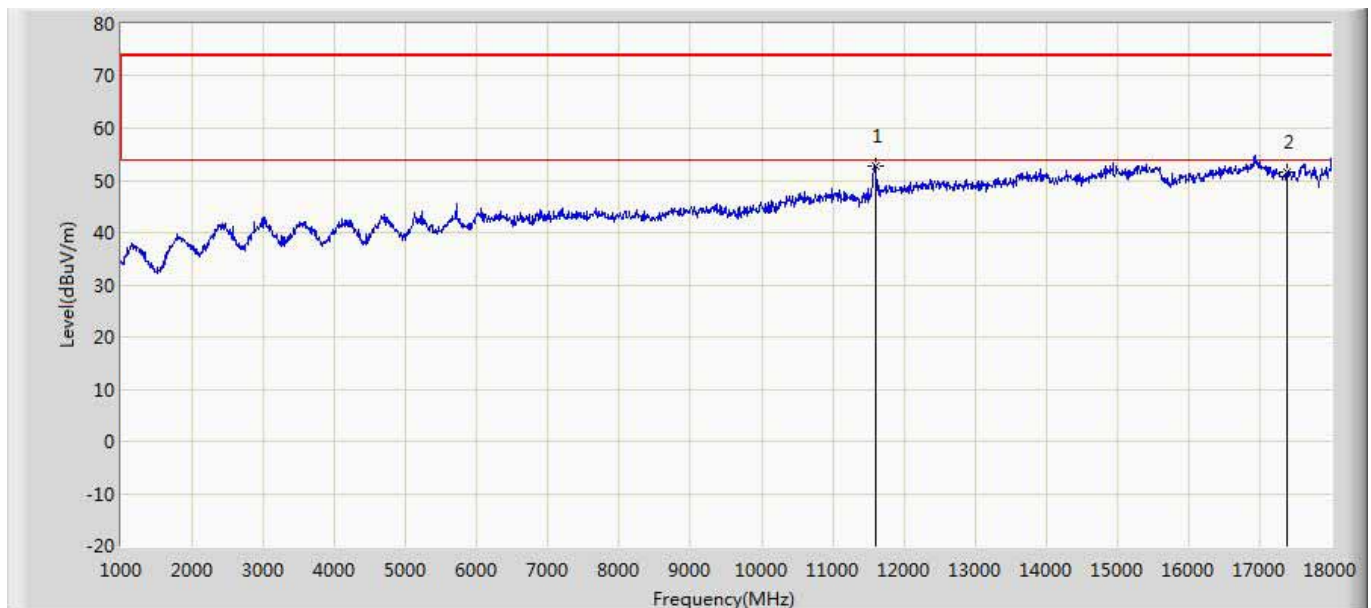
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11510.000	46.734	32.413	-7.266	54.000	14.321	AV
2		11514.500	54.163	40.049	-19.837	74.000	14.114	PK
3		17265.000	52.388	32.158	-21.612	74.000	20.230	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 16:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 5:Transmit 5795MHz by 802.11ac40	



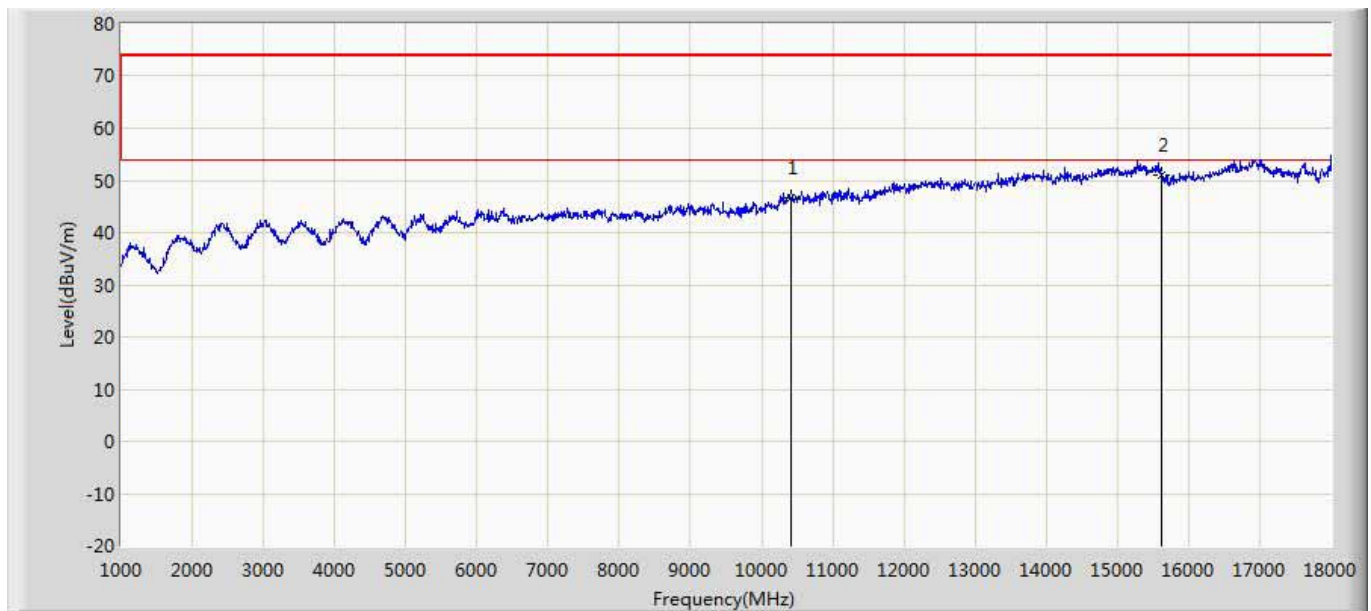
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11590.000	46.637	31.747	-7.363	54.000	14.890	AV
2		11591.000	54.915	39.972	-19.085	74.000	14.943	PK
3		17385.000	51.195	31.806	-22.805	74.000	19.389	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 16:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 5:Transmit 5795MHz by 802.11ac40	



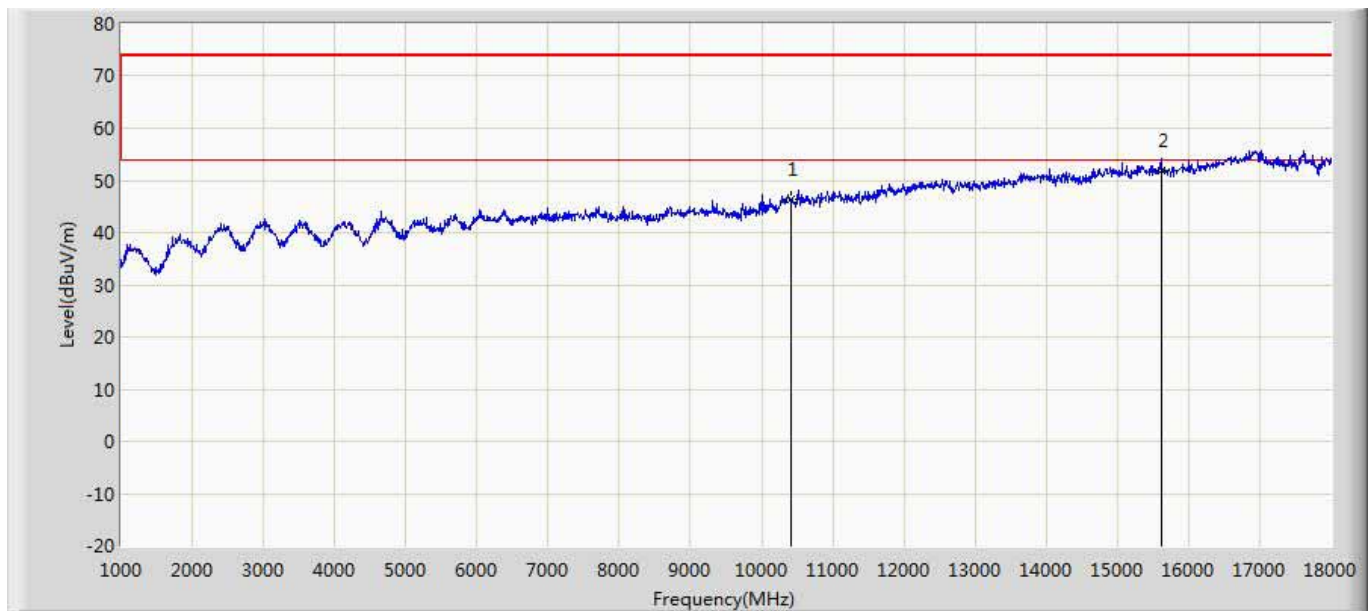
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11599.500	52.837	38.258	-21.163	74.000	14.579	PK
2		17385.000	51.537	32.148	-22.463	74.000	19.389	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 17:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 6:Transmit 5210MHz by 802.11ac80	



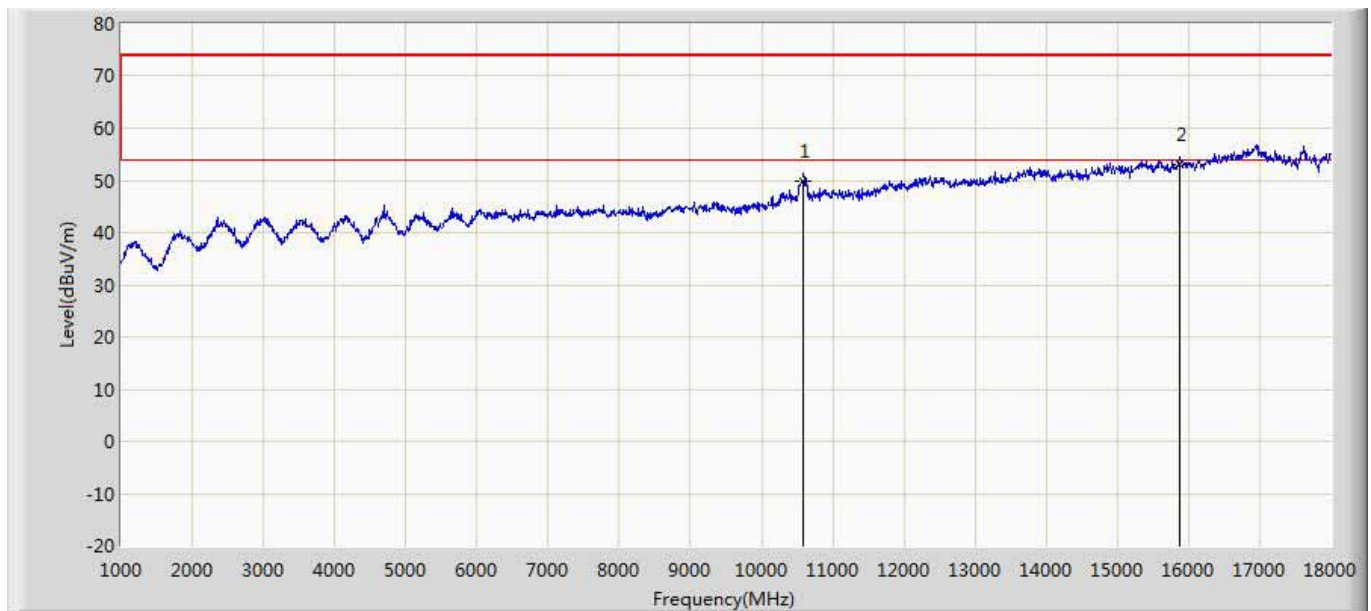
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10420.000	46.598	34.856	-27.402	74.000	11.743	PK
2	*	15630.000	50.887	32.470	-23.113	74.000	18.417	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 17:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 6:Transmit 5210MHz by 802.11ac80	



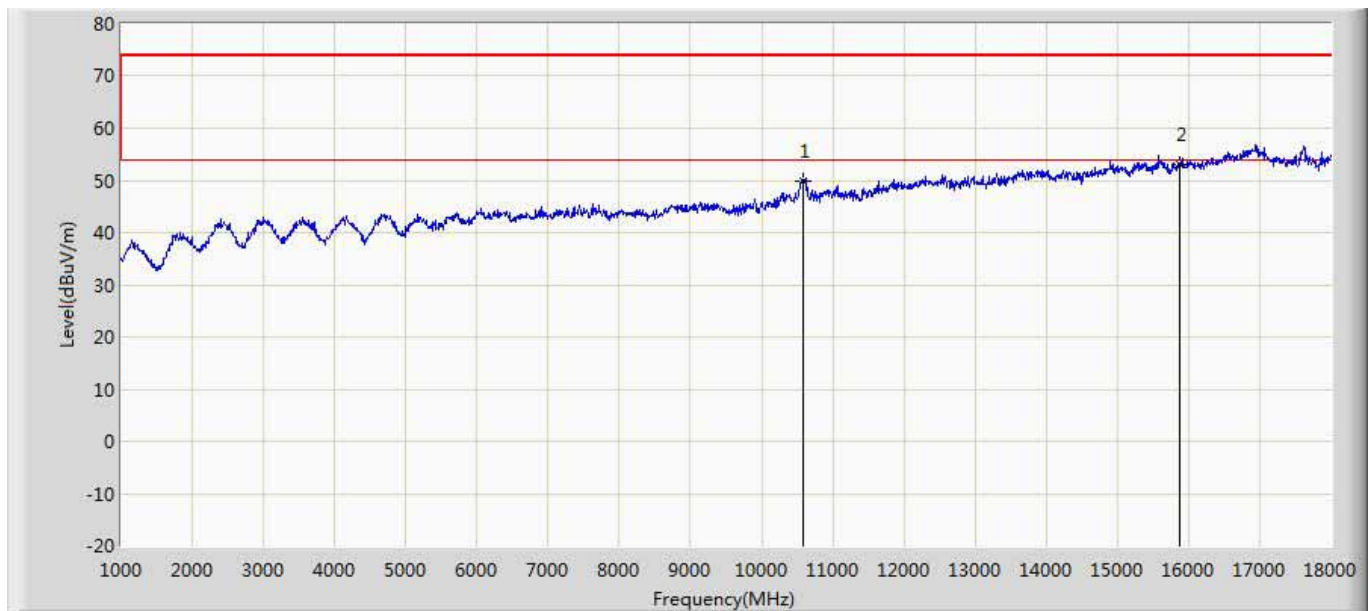
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10420.000	46.421	34.679	-27.579	74.000	11.743	PK
2	*	15630.000	51.952	33.535	-22.048	74.000	18.417	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 17:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 6:Transmit 5290MHz by 802.11ac80	



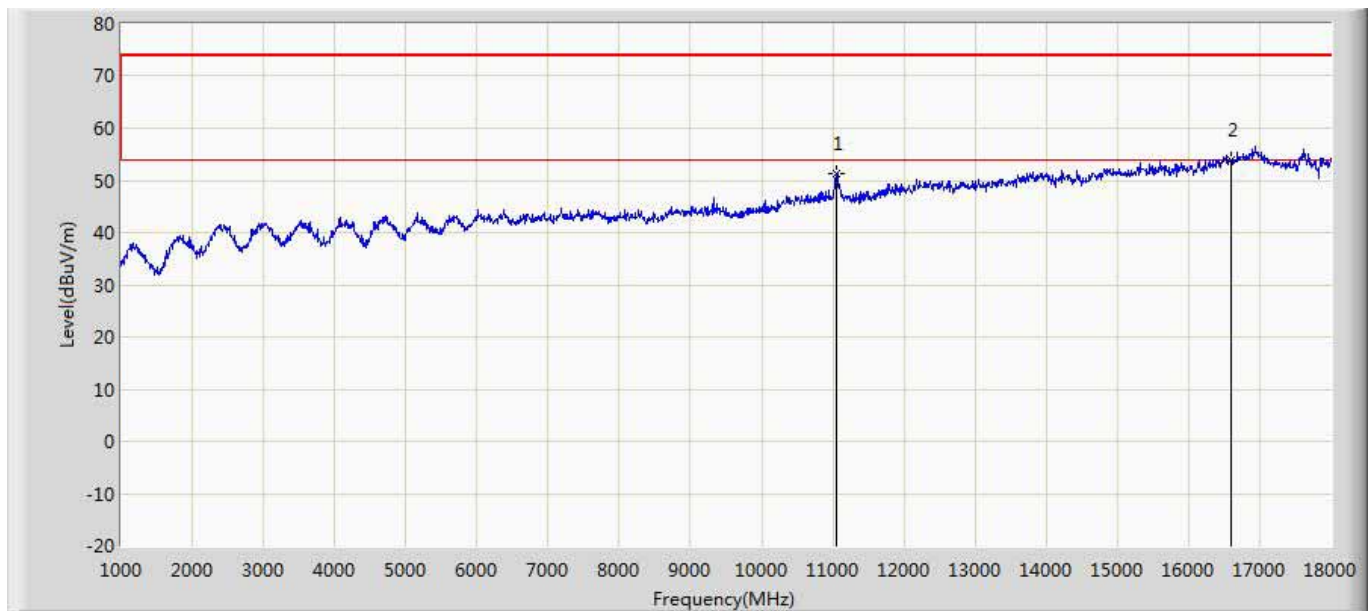
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10580.000	49.920	37.527	-24.080	74.000	12.393	PK
2	*	15870.000	53.079	34.905	-20.921	74.000	18.174	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 17:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 6:Transmit 5290MHz by 802.11ac80	



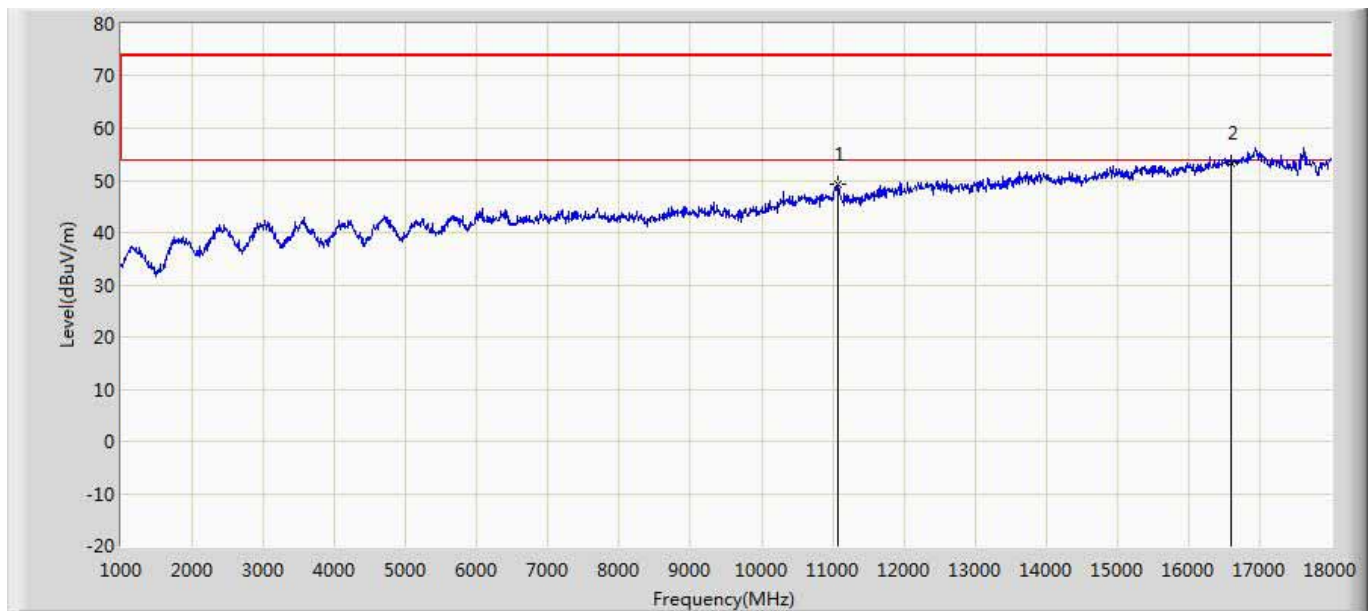
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10580.000	49.859	37.466	-24.141	74.000	12.393	PK
2	*	15870.000	53.180	35.006	-20.820	74.000	18.174	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 17:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 6:Transmit 5530MHz by 802.11ac80	



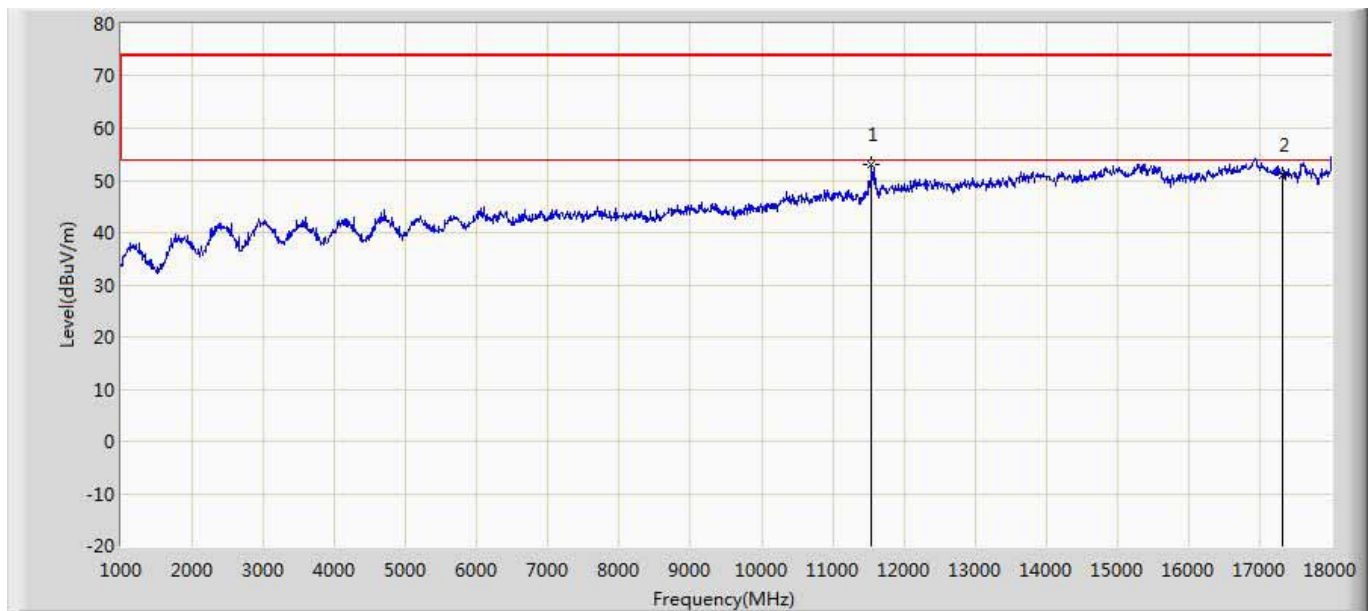
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11047.000	51.282	37.726	-22.718	74.000	13.556	PK
2	*	16590.000	53.883	34.587	-20.117	74.000	19.296	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 17:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 6:Transmit 5530MHz by 802.11ac80	



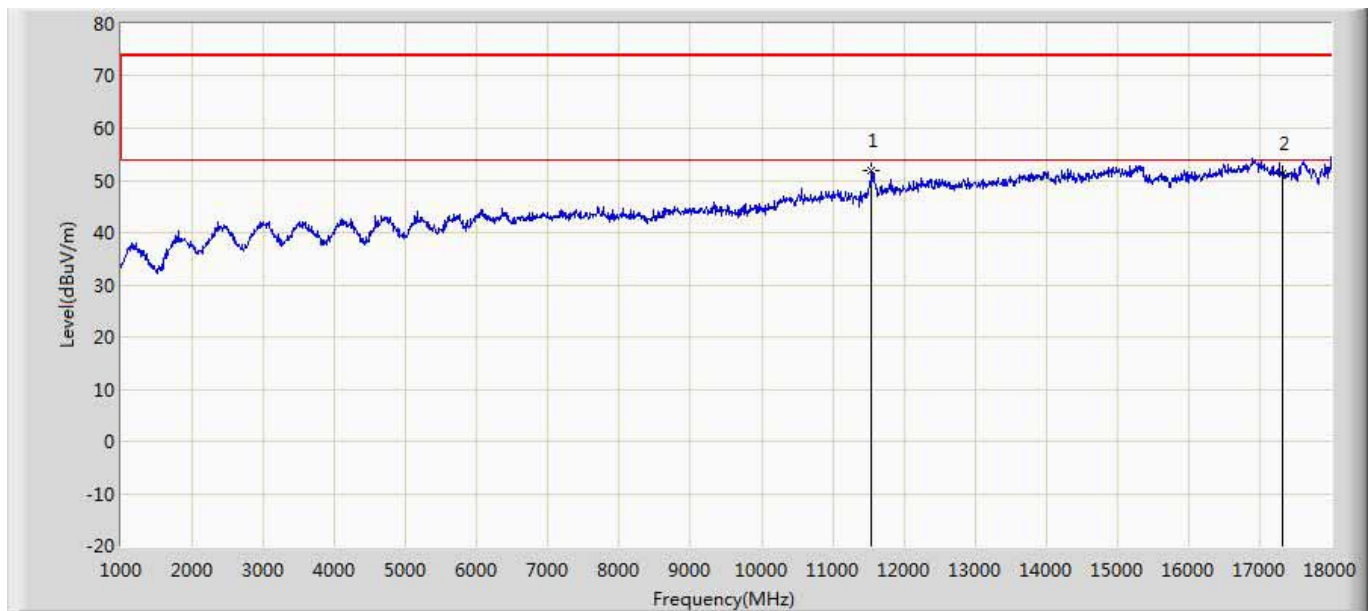
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11064.000	49.350	35.743	-24.650	74.000	13.607	PK
2	*	16590.000	53.383	34.087	-20.617	74.000	19.296	PK

Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 17:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 6:Transmit 5775MHz by 802.11ac80	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11548.500	52.957	39.026	-21.043	74.000	13.930	PK
2		17325.000	51.152	31.560	-22.848	74.000	19.592	PK

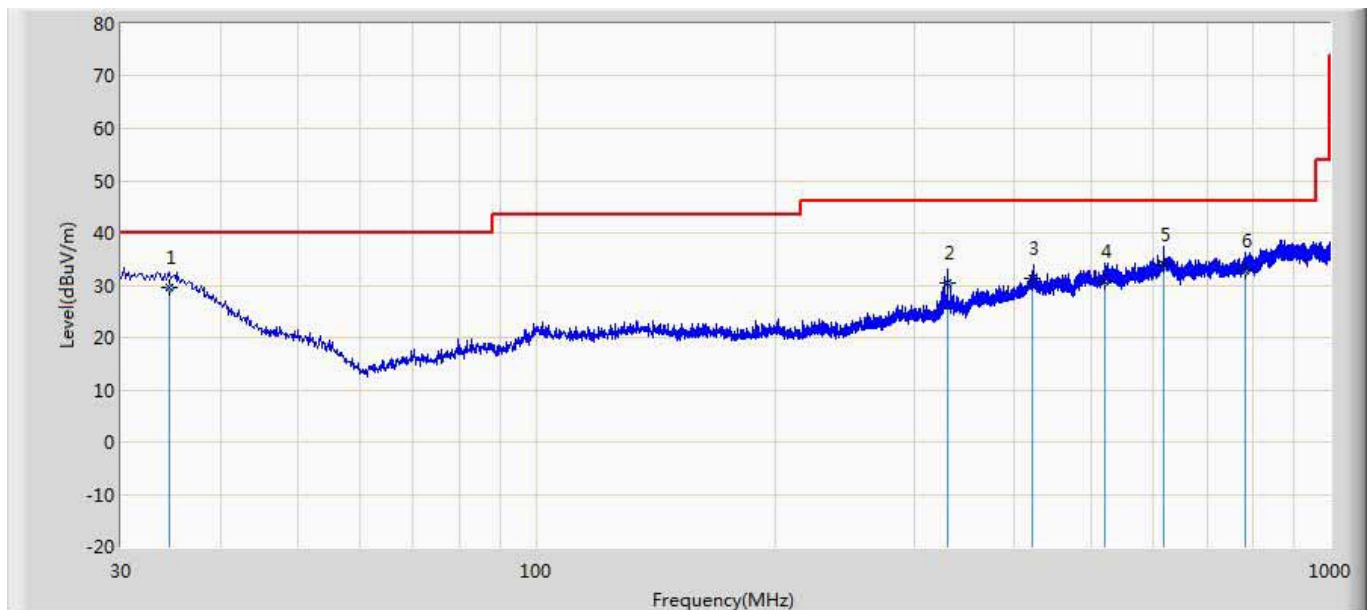
Engineer: Simon	
Site: AC5	Time: 2017/06/10 - 17:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 6:Transmit 5775MHz by 802.11ac80	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	11548.500	51.926	37.995	-22.074	74.000	13.930	PK
2		17325.000	51.375	31.783	-22.625	74.000	19.592	PK

The worst case of Radiated Emission below 1GHz:

Site: AC2	Time: 2017/03/16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: CB7_CBL6112_0726	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5180MHz by 802.11a	

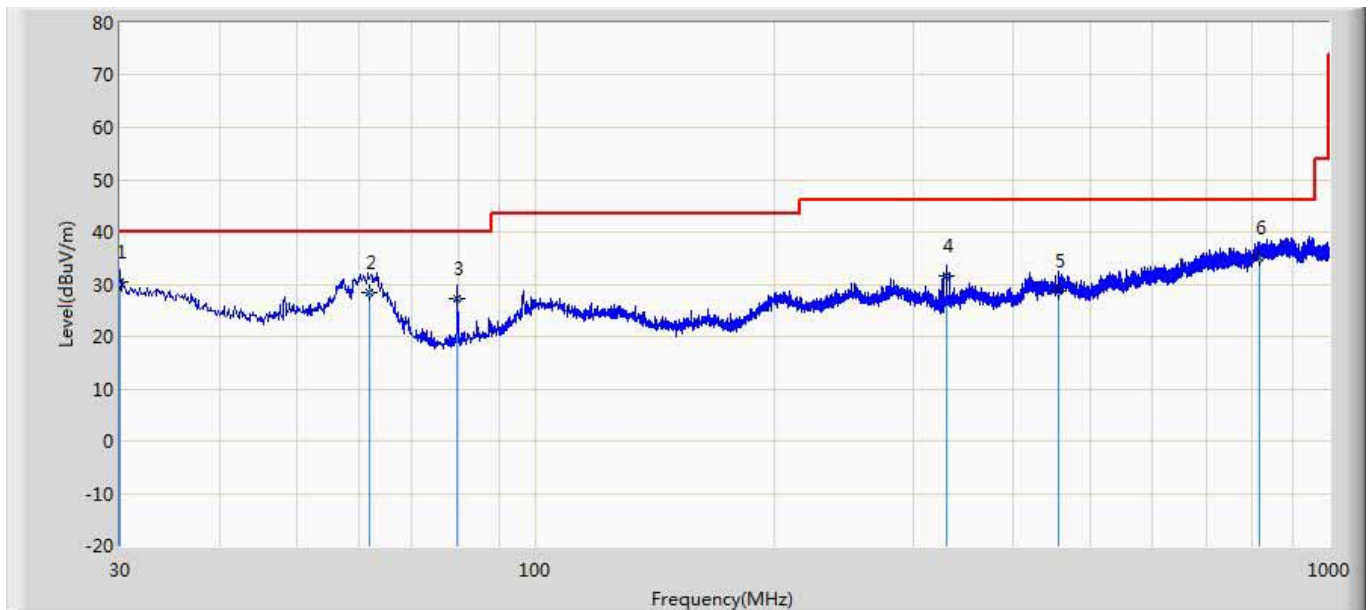


No	Mark	Frequency (MHz)	Measure Level (dBUV/m)	Reading Level (dBUV)	Over Limit (dB)	Limit (dBUV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1	*	34.450	29.551	35.858	-10.449	40.000	16.219	0.636	23.162	100	199	QP
2		329.701	30.459	37.277	-15.541	46.000	14.172	1.970	22.960	200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

Note:

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

Site: AC2	Time: 2017/03/16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: CB7_CBL6112_0726	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5180MHz by 802.11a	



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

Note:

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

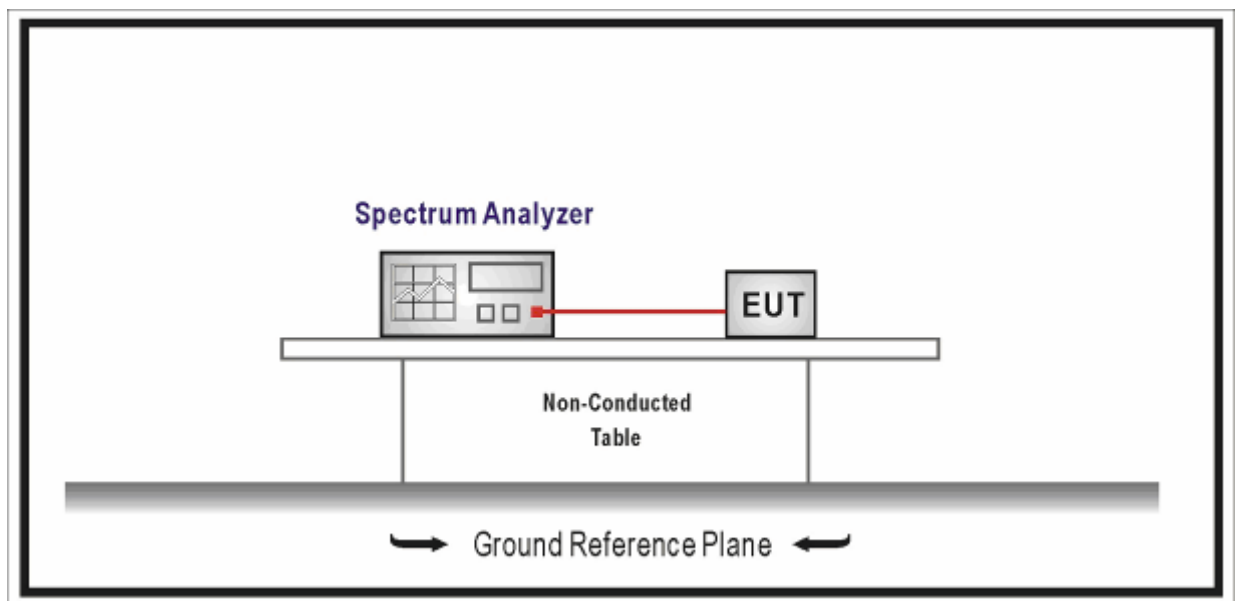
5. Emission bandwidth and occupied bandwidth

5.1. Test Equipment

Emission bandwidth and occupied bandwidth / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2017.02.04	2018.02.04
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2017.04.09	2018.04.09
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2017.04.09	2018.04.09
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2017.04.10	2018.04.10

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

5.2. Test Setup



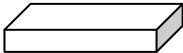
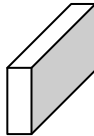
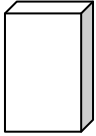
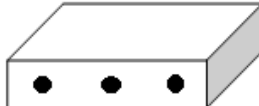
5.3. Limit

N/A

5.4. Test Procedure

Test Method			
	References Rule	Chapter	Description
☐	ANSI C63.10	12.4	Emission bandwidth and occupied bandwidth
	☐ ANSI C63.10	12.4.1	Emission bandwidth (26dB)
	☐ ANSI C63.10	12.4.2	Occupied bandwidth (99%)
☒	FCC KDB 789033 D02v01r04	C	Bandwidth Measurement
	☒ FCC KDB 789033 D02v01r04	C.1	Emission Bandwidth (26dB)
	☐ FCC KDB 789033 D02v01r04	C.2	Minimum Emission Bandwidth for the band 5.725-5.85 GHz (6dB)
☒	FCC KDB 789033 D02v01r04	D	99 Percent Occupied Bandwidth

5.5. EUT test Axis definition

Item	Occupied bandwidth			
Device Category	☐	Outdoor AP		
	☐	Indoor AP		
	☐	Fixed point-to-point AP		
	☐	Outdoor fixed point-to-multipoint AP		
	☒	Client		
Test mode	Mode 1-6			
Test method	☐	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis ☐	Worst Axis ☐	Worst Axis ☐
	☒	Conducted		
	☒	Chain 1		
				
	☐	Chain 1	Chain 2	
				
	☐	Chain 1	Chain 2	Chain 3
				

5.6. Test Result

Product Name	: AC450 Wireless Nano USB Adapter	Power	: AC 120V / 60Hz
Model No.	: Archer T1U	Test Site	: TR8
Test Mode	: Mode 1-6	Test Date	: 2017.06.07

Mode 1: Transmit by 802.11a					
Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
36	5180	19.00	16.491	5171.75	Pass
44	5220	19.76	16.580	N/A	Pass
48	5240	19.47	16.497	5248.25	Pass
52	5260	22.63	16.613	N/A	Pass
60	5300	21.50	16.550	N/A	Pass
64	5320	19.93	16.538	N/A	Pass
100	5500	29.94	17.470	N/A	Pass
116	5580	30.00	17.657	N/A	Pass
140	5700	30.00	19.597	N/A	Pass
Mode 2: Transmit by 802.11n(20MHz)					
Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
36	5180	20.02	17.572	5171.21	Pass
44	5220	19.94	17.565	N/A	Pass
48	5240	20.45	17.590	5248.80	Pass
52	5260	19.96	17.583	N/A	Pass
60	5300	19.63	17.541	N/A	Pass
64	5320	20.11	17.559	N/A	Pass
100	5500	30.00	19.126	N/A	Pass
116	5580	30.00	19.414	N/A	Pass
140	5700	30.00	21.273	N/A	Pass

Mode 3: Transmit by 802.11n(40MHz)

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
38	5190	40.66	36.234	5171.88	Pass
46	5230	40.36	36.128	5248.06	Pass
54	5270	40.47	36.189	N/A	Pass
62	5310	40.38	36.132	N/A	Pass
102	5510	47.24	36.164	N/A	Pass
110	5550	60.00	38.930	N/A	Pass
132	5670	60.00	39.410	N/A	Pass

Mode 4: Transmit by 802.11ac(20MHz)

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
36	5180	20.15	17.566	5171.22	Pass
44	5220	20.05	17.598	N/A	Pass
48	5240	19.77	17.558	5248.78	Pass
52	5260	19.86	17.567	N/A	Pass
60	5300	20.13	17.580	N/A	Pass
64	5320	20.30	17.581	N/A	Pass
100	5500	30.00	19.491	N/A	Pass
116	5580	29.91	19.402	N/A	Pass
140	5700	30.00	19.640	N/A	Pass

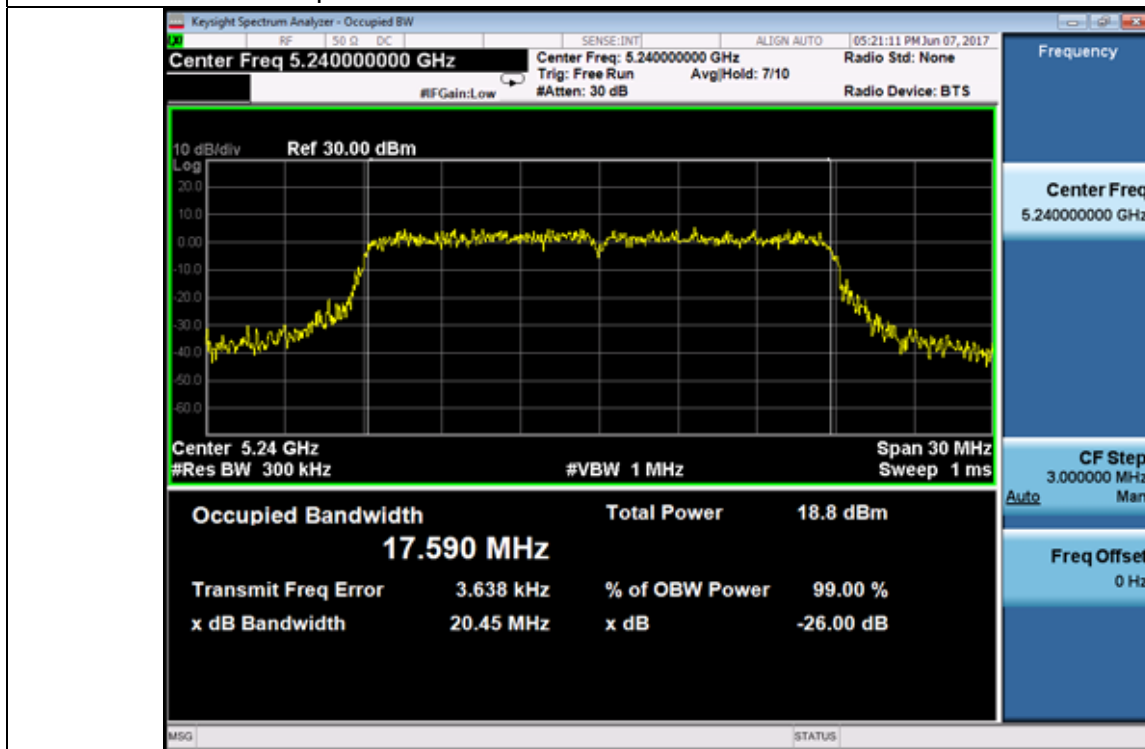
Mode 5: Transmit by 802.11ac(40MHz)

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
38	5190	40.36	36.191	5171.90	Pass
46	5230	40.45	36.164	5248.08	Pass
54	5270	39.90	36.159	N/A	Pass
62	5310	40.80	36.230	N/A	Pass
102	5510	40.39	36.199	N/A	Pass
110	5550	60.00	39.021	N/A	Pass
132	5670	60.00	39.609	N/A	Pass

Mode 6: Transmit by 802.11ac(80MHz)

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
38	5210	80.77	75.660	5172.17/5247.83	Pass
58	5290	81.62	75.841	N/A	Pass
106	5530	81.04	75.595	N/A	Pass

The worst case of Occupied Bandwidth as below:



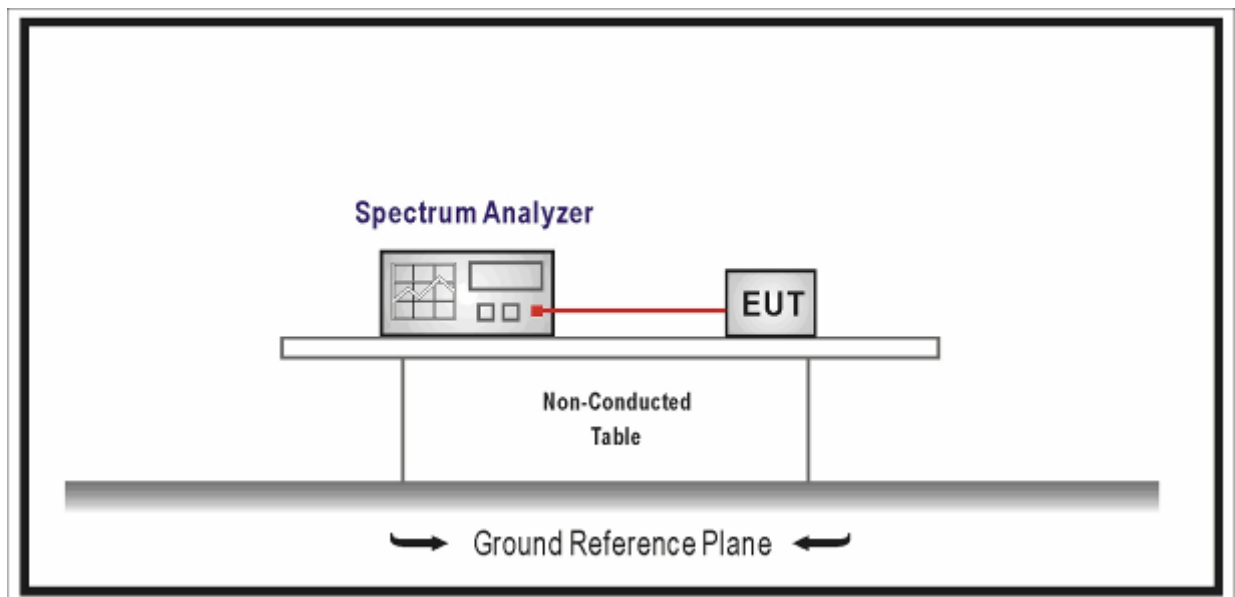
6. 6dB bandwidth

6.1. Test Equipment

6dB bandwidth / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2017.02.04	2018.02.03
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2017.04.09	2018.04.08
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2017.04.09	2018.04.08
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2017.04.10	2018.04.09

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

6.2. Test Setup



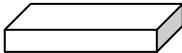
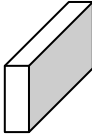
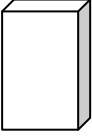
6.3. Limit

>500kHz

6.4. Test Procedure

Test Method			
	References Rule	Chapter	Description
☐	ANSI C63.10	12.4	Emission bandwidth and occupied bandwidth
	☐ ANSI C63.10	12.4.1	Emission bandwidth (26dB)
	☐ ANSI C63.10	12.4.2	Occupied bandwidth (99%)
☒	FCC KDB 789033 D02v01r04	C	Bandwidth Measurement
	☐ FCC KDB 789033 D02v01r04	C.1	Emission Bandwidth (26dB)
	☒ FCC KDB 789033 D02v01r04	C.2	Minimum Emission Bandwidth for the band 5.725-5.85 GHz (6dB)
☐	FCC KDB 789033 D02v01r04	D	99 Percent Occupied Bandwidth

6.5. EUT test Axis definition

Item	6dB bandwidth			
Device Category	☐	Outdoor AP		
	☐	Indoor AP		
	☐	Fixed point-to-point AP		
	☐	Outdoor fixed point-to-multipoint AP		
	☒	Client		
Test mode	Mode 1-6			
Test method	☐	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis ☐	Worst Axis ☐	Worst Axis ☐
	☒	Conducted		
	☒	Chain 1		
				
	☐	Chain 1	Chain 2	
				
	☐	Chain 1	Chain 2	Chain 3
				

6.6. Test Result

Product Name	: AC450 Wireless Nano USB Adapter	Power	: PoE 57V
Model No.	: Archer T1U	Test Site	: TR8
Test Mode	: Mode 1-6	Test Date	: 2017.06.07

Mode 1: Transmit by 802.11a				
Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1 (Worst Data)		
149	5745	16.37	>500	Pass
157	5785	16.43		Pass
165	5825	16.40		Pass
Mode 2: Transmit by 802.11n(20MHz)				
Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1 (Worst Data)		
149	5745	17.63	>500	Pass
157	5785	17.56		Pass
165	5825	17.62		Pass
Mode 3: Transmit by 802.11n(40MHz)				
Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1 (Worst Data)		
151	5755	36.33	>500	Pass
159	5795	36.44		Pass
Mode 4: Transmit by 802.11ac(20MHz)				
Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1 (Worst Data)		
149	5745	17.64	>500	Pass
157	5785	17.62		Pass
165	5825	17.62		Pass

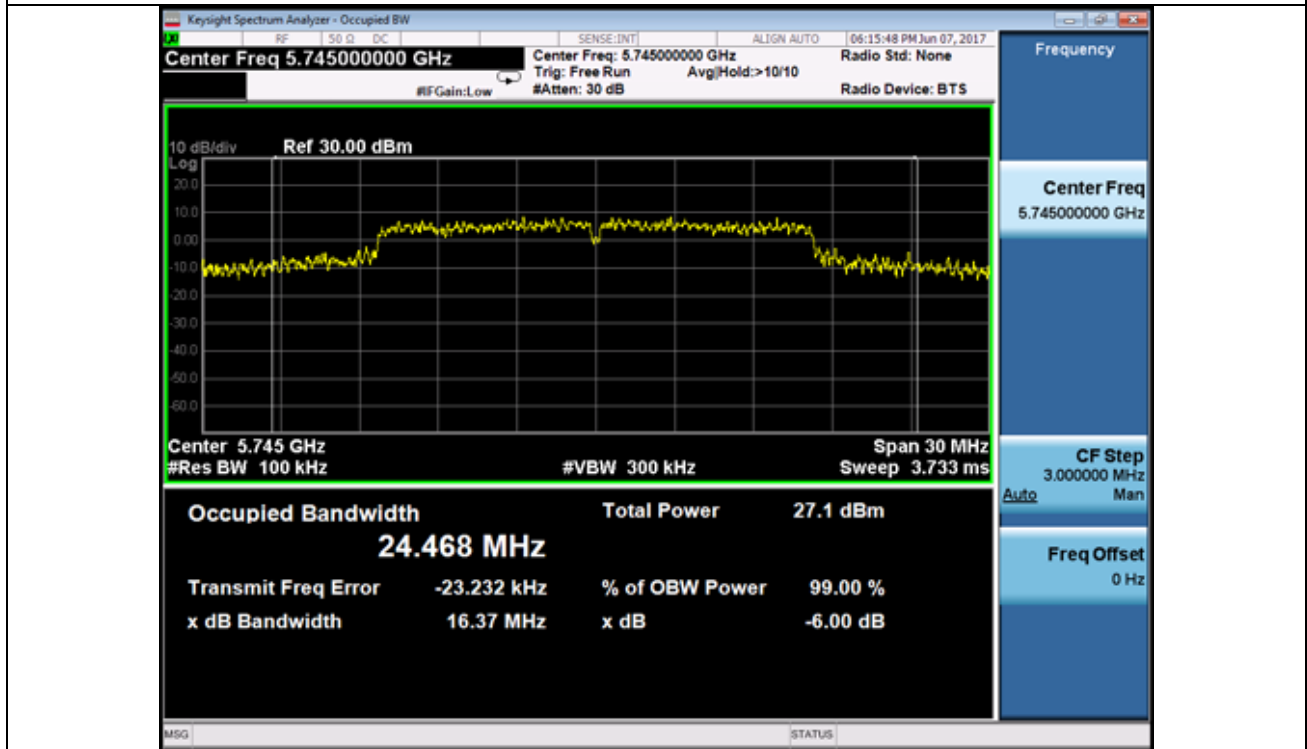
Mode 5: Transmit by 802.11ac(40MHz)

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1 (Worst Data)		
151	5755	36.40	>500	Pass
159	5795	36.41		Pass

Mode 6: Transmit by 802.11ac(80MHz)

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1 (Worst Data)		
155	5775	76.47	>500	Pass

Note: The worst case of Occupied Bandwidth as below:

Mode 1: CH149 (5745MHz)


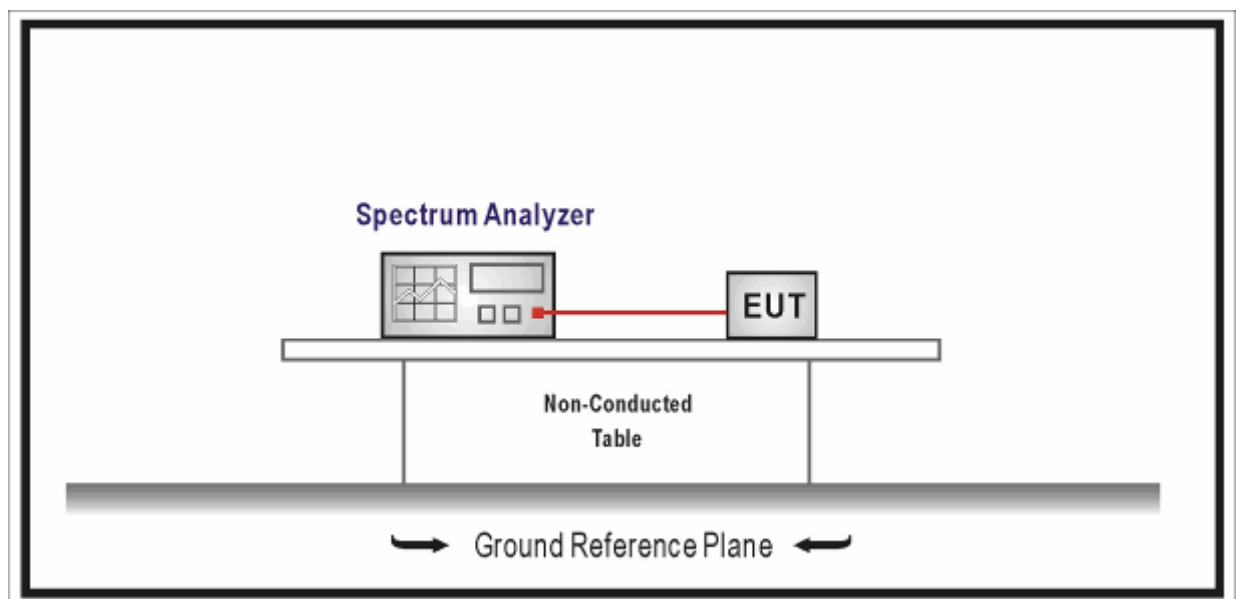
7. Power Output

7.1. Test Equipment

Power Output / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2017.01.03	2018.01.02
Spectrum Analyzer	Agilent	N9010A	MY48030494	2017.02.04	2018.02.03
Wideband Peak Power Meter	Anritsu	ML2495A	0905006	2016.10.14	2017.10.13
Power Sensor	Anritsu	MA2411B	0846014	2016.10.14	2017.10.13
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2017.04.10	2018.04.09

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

7.2. Test Setup



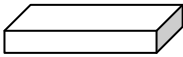
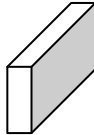
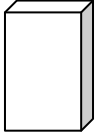
7.3. Limit

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

7.4. Test Procedure

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

7.5. EUT test Axis definition

Item	Power Output			
Device Category	☐	Outdoor AP		
	☐	Indoor AP		
	☐	Fixed point-to-point AP		
	☐	Outdoor fixed point-to-multipoint AP		
	☒	Client		
Test mode	Mode 1-6			
Test method	☐	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis ☐	Worst Axis ☐	Worst Axis ☐
	☒	Conducted		
	☒	Chain 1		
				
	☐	Chain 1	Chain 2	
				
	☐	Chain 1	Chain 2	Chain 3
				

7.6. Test Result

Product Name	:	AC450 Wireless Nano USB Adapter	Power	:	AC 120V / 60Hz
Model No.	:	Archer T1U	Test Site	:	TR8
Test Mode	:	Mode 1-6	Test Date	:	2017.06.06

Mode 1: Transmit by 802.11a					
Channel No.	Frequency (MHz)	Measurement Power	Total Power (dBm)	Limit (dBm)	Result
		Ant1			
36	5180	15.71	15.71	24.0	Pass
44	5220	15.82	15.82	24.0	Pass
48	5240	15.86	15.86	24.0	Pass
52	5260	17.66	17.66	24.0	Pass
60	5300	17.51	17.51	24.0	Pass
64	5320	17.62	17.62	24.0	Pass
100	5500	20.23	20.23	24.0	Pass
116	5580	20.18	20.18	24.0	Pass
140	5700	20.21	20.21	24.0	Pass
149	5745	21.35	21.35	30.0	Pass
157	5785	21.64	21.64	30.0	Pass
165	5825	21.48	21.48	30.0	Pass

Mode 2: Transmit by 802.11n(20MHz)					
Channel No.	Frequency (MHz)	Measurement Power	Total Power (dBm)	Limit (dBm)	Result
		Ant1			
36	5180	15.63	15.63	24.0	Pass
44	5220	15.71	15.71	24.0	Pass
48	5240	15.68	15.68	24.0	Pass
52	5260	16.79	16.79	24.0	Pass
60	5300	16.83	16.83	24.0	Pass
64	5320	16.75	16.75	24.0	Pass
100	5500	20.81	20.81	24.0	Pass
116	5580	20.65	20.65	24.0	Pass
140	5700	20.73	20.73	24.0	Pass
149	5745	21.54	21.54	30.0	Pass
157	5785	21.28	21.28	30.0	Pass
165	5825	21.17	21.17	30.0	Pass

Mode 3: Transmit by 802.11n(40MHz)

Channel No.	Frequency (MHz)	Measurement Power	Total Power (dBm)	Limit (dBm)	Result
		Ant1			
38	5190	16.13	16.13	24.0	Pass
46	5230	16.21	16.21	24.0	Pass
54	5270	16.73	16.73	24.0	Pass
62	5310	16.36	16.36	24.0	Pass
102	5510	17.22	17.22	24.0	Pass
110	5550	21.51	21.51	24.0	Pass
132	5670	21.32	21.32	24.0	Pass
151	5755	21.54	21.54	30.0	Pass
159	5795	21.38	21.38	30.0	Pass

Mode 4: Transmit by 802.11ac(20MHz)

36	5180	15.72	15.72	24.0	Pass
44	5220	15.68	15.68	24.0	Pass
48	5240	15.59	15.59	24.0	Pass
52	5260	16.61	16.61	24.0	Pass
60	5300	16.56	16.56	24.0	Pass
64	5320	16.67	16.67	24.0	Pass
100	5500	21.32	21.32	24.0	Pass
116	5580	21.04	21.04	24.0	Pass
140	5700	21.17	21.17	24.0	Pass
149	5745	21.59	21.59	30.0	Pass
157	5785	21.47	21.47	30.0	Pass
165	5825	21.25	21.25	30.0	Pass

Mode 5: Transmit by 802.11ac(40MHz)

Channel No.	Frequency (MHz)	Measurement Power	Total Power (dBm)	Limit (dBm)	Result
		Ant1			
38	5190	15.01	15.01	24.0	Pass
46	5230	16.62	16.62	24.0	Pass
54	5270	16.65	16.65	24.0	Pass
62	5310	16.74	16.74	24.0	Pass
102	5510	17.34	17.34	24.0	Pass
110	5550	21.51	21.51	24.0	Pass
132	5670	21.45	21.45	24.0	Pass
151	5755	21.52	21.52	30.0	Pass

159	5795	21.41	21.41	30.0	Pass
Mode 6: Transmit by 802.11ac(80MHz)					
Channel No.	Frequency (MHz)	Measurement Power	Total Power (dBm)	Limit (dBm)	Result
		Ant1			
38	5210	15.02	15.02	24.0	Pass
58	5290	17.04	17.04	24.0	Pass
106	5530	14.73	14.73	24.0	Pass
155	5775	21.52	21.52	30.0	Pass

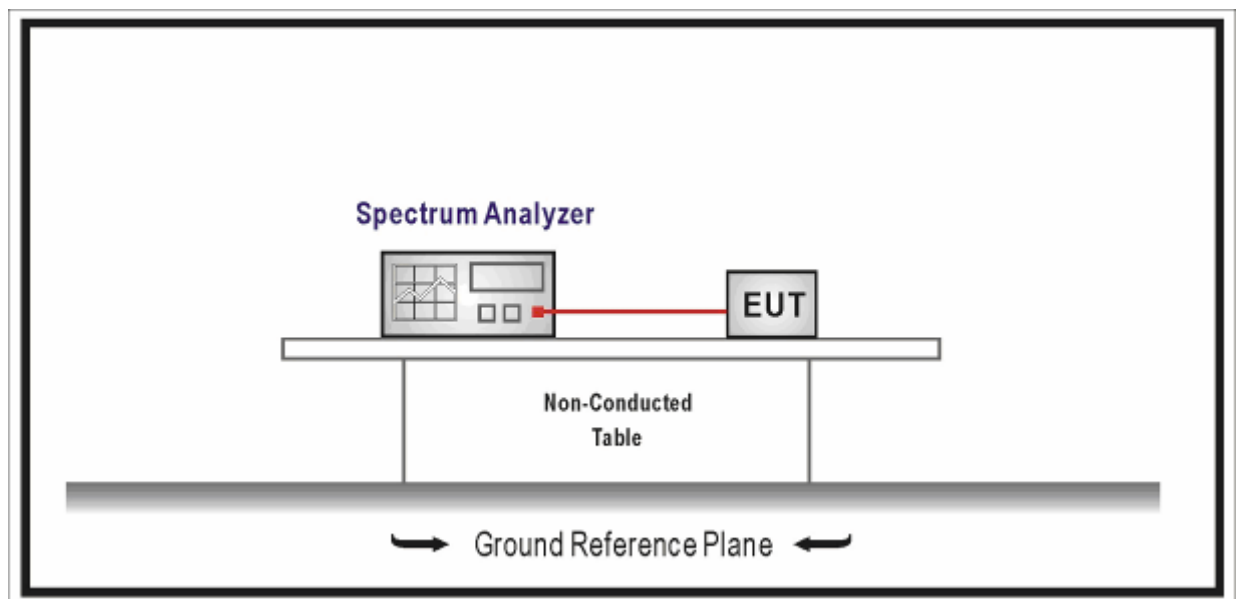
8. Peak Power Spectral Density

8.1. Test Equipment

Peak Power Spectral Density / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2017.02.04	2018.02.03
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2017.04.09	2018.04.08
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2017.04.09	2018.04.08
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2017.04.10	2018.04.09

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

8.2. Test Setup



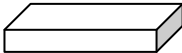
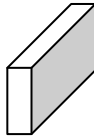
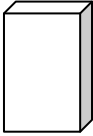
8.3. Limit

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

8.4. Test Procedure

Fundamental emission output power Test Method			
	References Rule	Chapter	Description
☒	ANSI C63.10	12.5	Peak power spectral density
☒	FCC KDB 789033 D02v01r04	F	Maximum Power Spectral Density (PSD)

8.5. EUT test Axis definition

Item	Peak power spectral density			
Device Category	☐	Outdoor AP		
	☐	Indoor AP		
	☐	Fixed point-to-point AP		
	☐	Outdoor fixed point-to-multipoint AP		
	☒	Client		
Test mode	Mode 1-6			
Test method	☐	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis ☐	Worst Axis ☐	Worst Axis ☐
	☒	Conducted		
	☒	Chain 1		
				
	☐	Chain 1	Chain 2	
				
	☐	Chain 1	Chain 2	Chain 3
				

8.6. Test Result

Product Name	: AC450 Wireless Nano USB Adapter	Power	: AC 120V / 60Hz
Model No.	: Archer T1U	Test Site	: TR8
Test Mode	: Mode 1-6	Test Date	: 2017.06.12

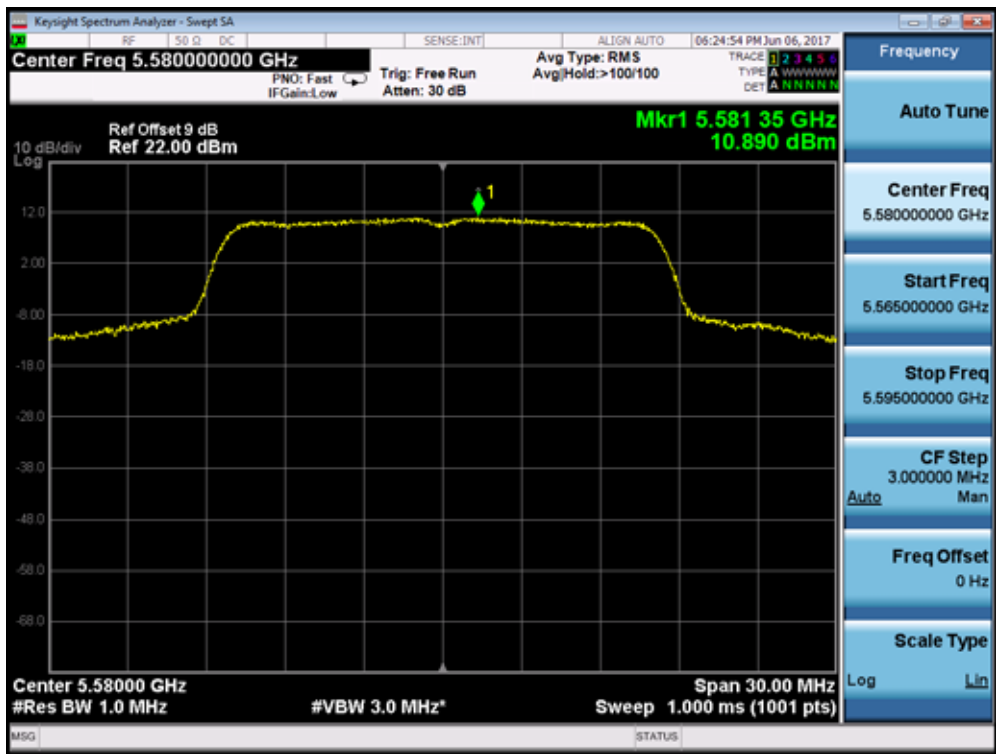
Mode 1: Transmit by 802.11a					
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
36	5180	4.996	4.996	11.0	Pass
44	5220	5.152	5.152	11.0	Pass
48	5240	5.365	5.365	11.0	Pass
52	5260	7.487	7.487	11.0	Pass
60	5300	7.006	7.006	11.0	Pass
64	5320	6.438	6.438	11.0	Pass
100	5500	10.718	10.718	11.0	Pass
116	5580	10.890	10.890	11.0	Pass
140	5700	10.211	10.211	11.0	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Total PPSD (dBm/500KHz)	Limit (dBm/500KHz)	Result
149	5745	9.014	9.014	30.0	Pass
157	5785	9.151	9.151	30.0	Pass
165	5825	8.617	8.617	30.0	Pass
Mode 2: Transmit by 802.11n(20MHz)					
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
36	5180	5.024	5.024	11.0	Pass
44	5220	4.740	4.740	11.0	Pass
48	5240	4.631	4.631	11.0	Pass
52	5260	6.347	6.347	11.0	Pass
60	5300	5.879	5.879	11.0	Pass
64	5320	6.399	6.399	11.0	Pass
100	5500	10.740	10.740	11.0	Pass
116	5580	10.692	10.692	11.0	Pass

140	5700	10.879	10.879	11.0	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Total PPSP (dBm/500KHz)	Limit (dBm/500KHz)	Result
149	5745	8.571	8.571	30.0	Pass
157	5785	7.776	7.776	30.0	Pass
165	5825	7.658	7.658	30.0	Pass
Mode 3: Transmit by 802.11n(40MHz)					
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Total PPSP (dBm/MHz)	Limit (dBm/MHz)	Result
38	5190	3.226	3.226	11.0	Pass
46	5230	3.175	3.175	11.0	Pass
54	5270	3.393	3.393	11.0	Pass
62	5310	3.342	3.342	11.0	Pass
102	5510	3.232	3.232	11.0	Pass
110	5550	8.209	8.209	11.0	Pass
132	5670	8.017	8.017	11.0	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Total PPSP (dBm/500KHz)	Limit (dBm/500KHz)	Result
151	5755	4.937	4.937	30.0	Pass
159	5795	4.858	4.858	30.0	Pass
Mode 4: Transmit by 802.11ac(20MHz)					
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Total PPSP (dBm/MHz)	Limit (dBm/MHz)	Result
36	5180	4.574	4.574	11.0	Pass
44	5220	5.351	5.351	11.0	Pass
48	5240	5.692	5.692	11.0	Pass
52	5260	6.633	6.633	11.0	Pass
60	5300	6.609	6.609	11.0	Pass
64	5320	6.489	6.489	11.0	Pass
100	5500	10.542	10.542	11.0	Pass
116	5580	10.716	10.716	11.0	Pass
140	5700	10.617	10.617	11.0	Pass

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Total PPSD (dBm/500KHz)	Limit (dBm/500KHz)	Result
149	5745	8.016	8.016	30.0	Pass
157	5785	7.728	7.728	30.0	Pass
165	5825	7.562	7.562	30.0	Pass
Mode 5: Transmit by 802.11ac(40MHz)					
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
38	5190	1.363	1.363	11.0	Pass
46	5230	3.560	3.560	11.0	Pass
54	5270	3.508	3.508	11.0	Pass
62	5310	3.622	3.622	11.0	Pass
102	5510	3.334	3.334	11.0	Pass
110	5550	7.982	7.982	11.0	Pass
132	5670	8.027	8.027	11.0	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Total PPSD (dBm/500KHz)	Limit (dBm/500KHz)	Result
151	5755	4.912	4.912	30.0	Pass
159	5795	4.875	4.875	30.0	Pass
Mode 6: Transmit by 802.11ac(80MHz)					
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)	Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Result
38	5210	-1.900	-1.900	11.0	Pass
58	5290	0.826	0.826	11.0	Pass
106	5530	-2.904	-2.904	11.0	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)	Total PPSD (dBm/500KHz)	Limit (dBm/500KHz)	Result
155	5775	2.423	2.423	30.0	Pass

Note:The worst case of Peak power spectral density as below:

Mode 1 CH116(5580MHz)



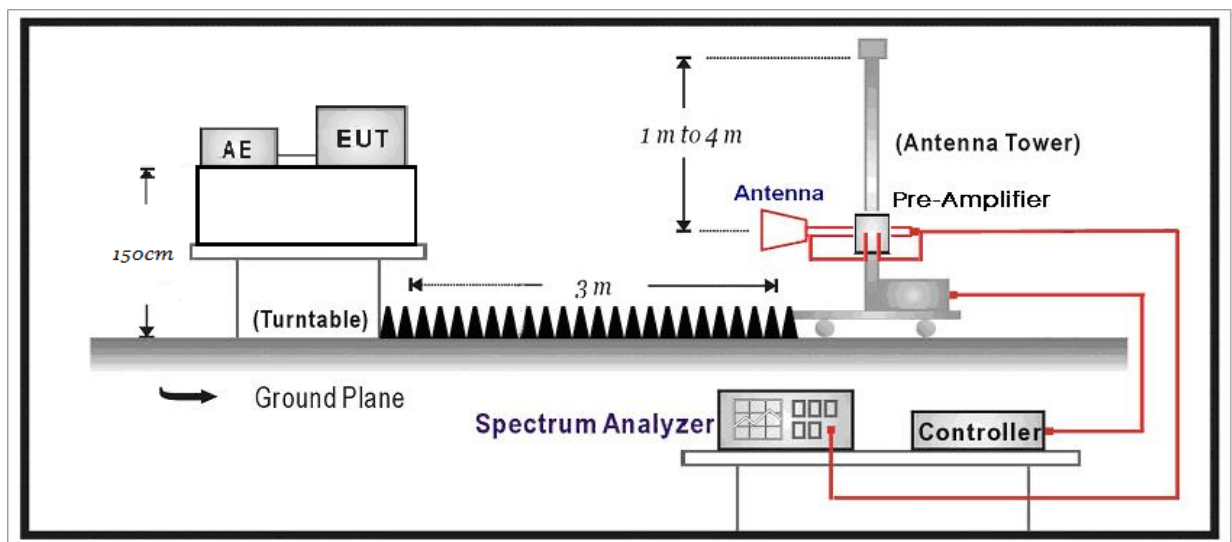
9. Radiated Emission Band Edge

9.1. Test Equipment

Radiated Emission Band Edge / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Receiver	Agilent	N9038A	MY51210196	2016.07.16	2017.07.15
Pre-Amplifier	Miteq	NSP1800-25	1364185	2017.05.03	2018.05.02
DRG Horn Antenna	ETS-Lindgren	3117	00167055	2016.07.12	2017.07.11
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2016.12.12	2017.09.17
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2017.02.28	2018.02.27
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2017.02.28	2018.02.27
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2017.01.04	2018.01.03

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

9.2. Test Setup



9.3. Limit

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

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

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

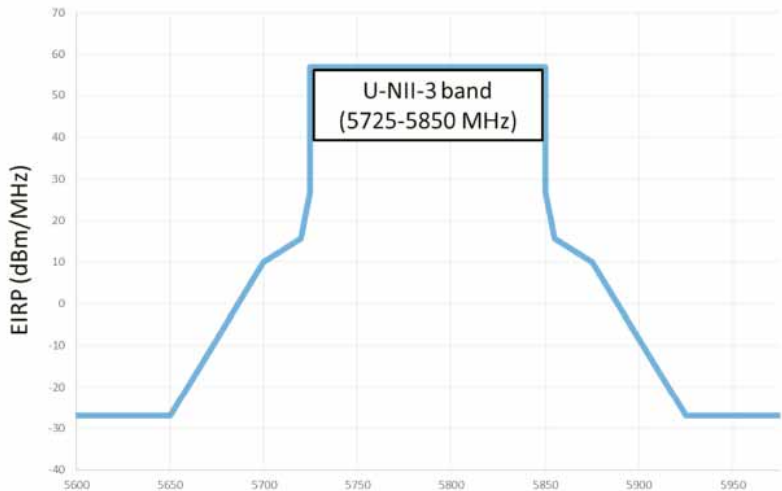
FCC Part 15 Subpart C Paragraph 15.205 (Restricted Band)

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 – 16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1300 – 1427	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1435 – 1626.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1645.5 – 1646.5	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1660 – 1710	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	1718.8 – 1722.2	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2200 – 2300	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2310 – 2390	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2483.5 – 2500	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	2690 – 2900	22.01 – 23.12
8.81425 – 8.81475	162.0125 – 167.17	3260 – 3267	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3332 – 3339	31.2 – 31.8
12.51975 – 12.52025	240 – 285	3345.8 – 3358	36.43 – 36.5
12.57675 – 12.57725	322 – 335.4	3600 – 4400	
13.36 – 13.41			

FCC Part 15 Subpart C Paragraph 15.407(5)(b) (Unrestricted Band Emissions Limit)

Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dB μ V/m)
5150 - 5250	-27	68.3
5250 - 5350	-27	68.3
5470 - 5725	-27	68.3

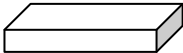
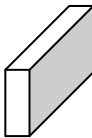
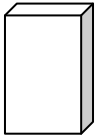
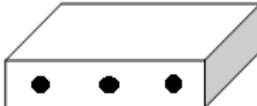
FCC Part 15 Subpart C Paragraph 15.407(b)(4) (Unrestricted Band Emissions Limit)

Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)
5725 - 5850	 U-NII-3 band (5725-5850 MHz)

9.4. Test Procedure

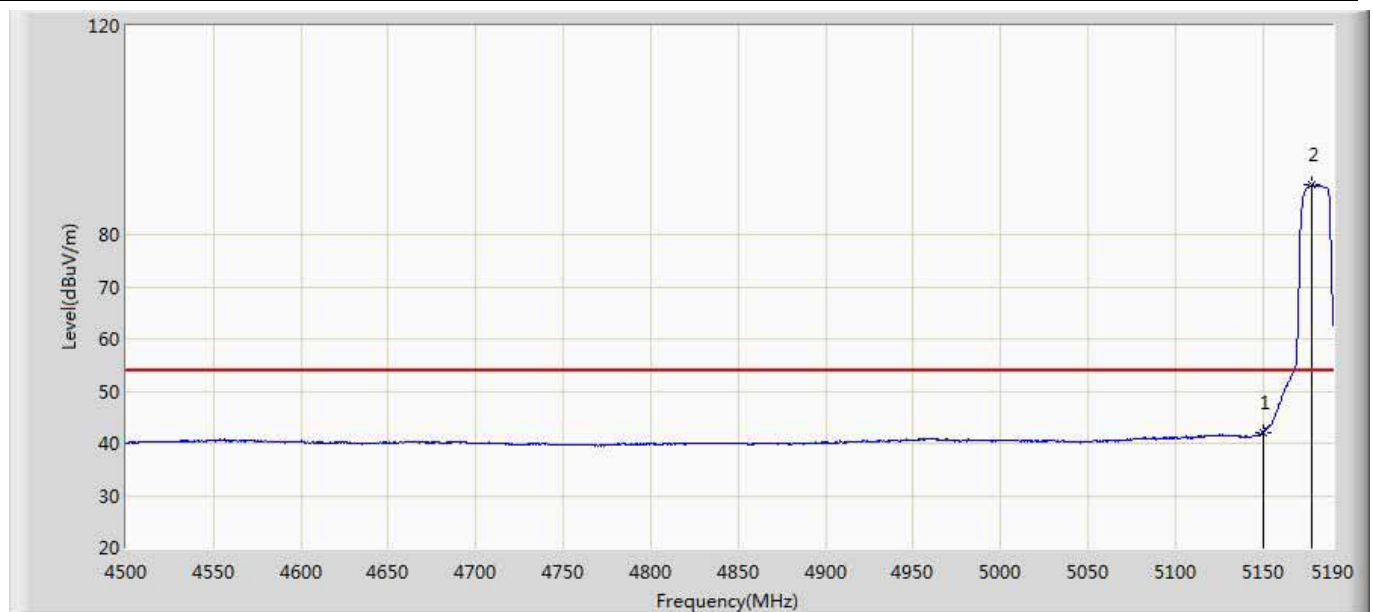
Test Method				
	References Rule		Chapter	Description
☐	ANSI C63.10		12.7.3	Emissions in non-restricted frequency bands
☒	ANSI C63.10		12.7.2	Emissions in restricted frequency bands
	☒	ANSI C63.10	12.7.5	Radiated emission measurements
	☒	ANSI C63.10	12.7.6	Procedure for peak unwanted emissions measurements above 1000 MHz
	☒	ANSI C63.10	12.7.7	Procedures for average unwanted emissions measurements above 1000 MHz
	☐	ANSI C63.10	12.7.7.2	Method AD (average detection)—primary method
	☒	ANSI C63.10	12.7.7.3	Method VB-A (Alternative)
	☒	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
	☒	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	☒	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz
☐	FCC KDB 789033 D02v01r04		G.2	Unwanted Emissions that fall Outside of the Restricted Bands
☐	FCC KDB 789033 D02v01r04		G.1	Unwanted Emissions in the Restricted Bands
	☐	FCC KDB 789033 D02v01r04	G.4	Procedure for Unwanted Emissions Measurements below 1000 MHz
	☐	FCC KDB 789033 D02v01r04	G.5	Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz
	☐	FCC KDB 789033 D02v01r04	G.6	Procedures for Average Unwanted Emissions Measurements above 1000 MHz
	☐	FCC KDB 789033 D02v01r04	G.6.c	Method AD (Average detection)—primary method
	☐	FCC KDB 789033 D02v01r04	G.6.d	Method VB (Averaging using reduced video bandwidth): Alternative method.

9.5. EUT test Axis definition

Item	Peak power spectral density			
Device Category	☐	Outdoor AP		
	☐	Indoor AP		
	☐	Fixed point-to-point AP		
	☐	Outdoor fixed point-to-multipoint AP		
	☒	Client		
Test mode	Mode 1-6			
Test method	☒	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis ☐	Worst Axis ☐	Worst Axis ☒
	☐	Conducted		
	☐	Chain 1		
				
	☐	Chain 1	Chain 2	
				
	☐	Chain 1	Chain 2	Chain 3
				

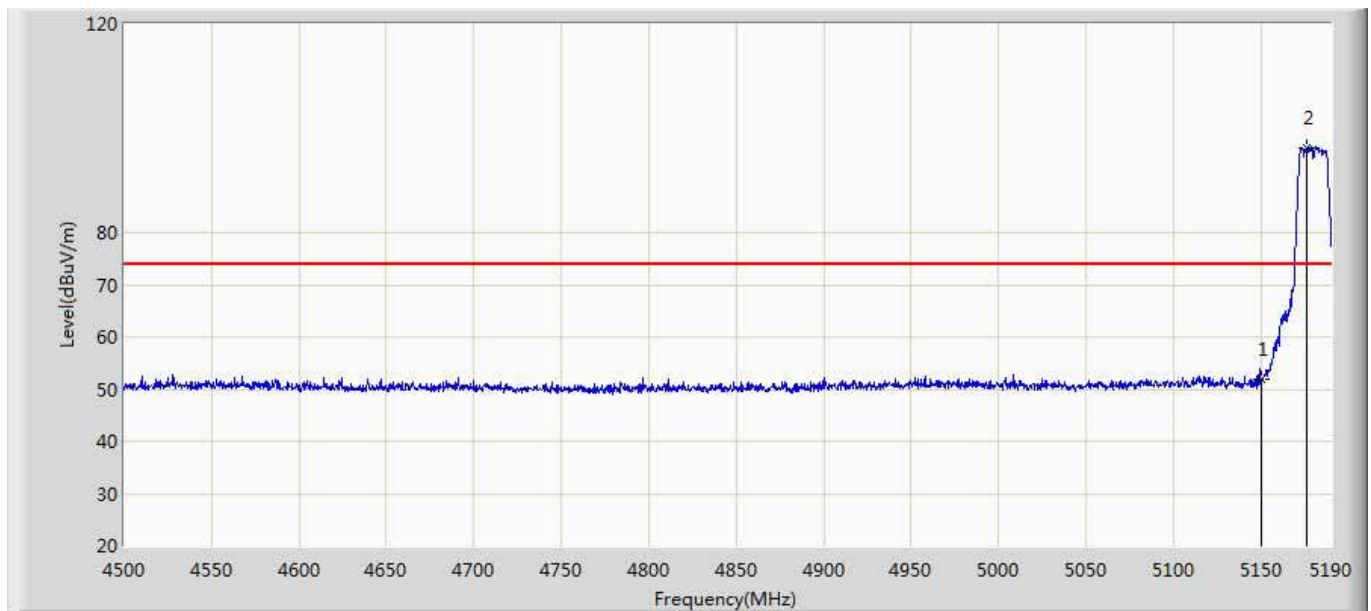
9.6. Test Result

Engineer: Eric	
Site: AC5	Time: 2017/05/28 - 14:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1:Transmit 5180MHz by 802.11a	



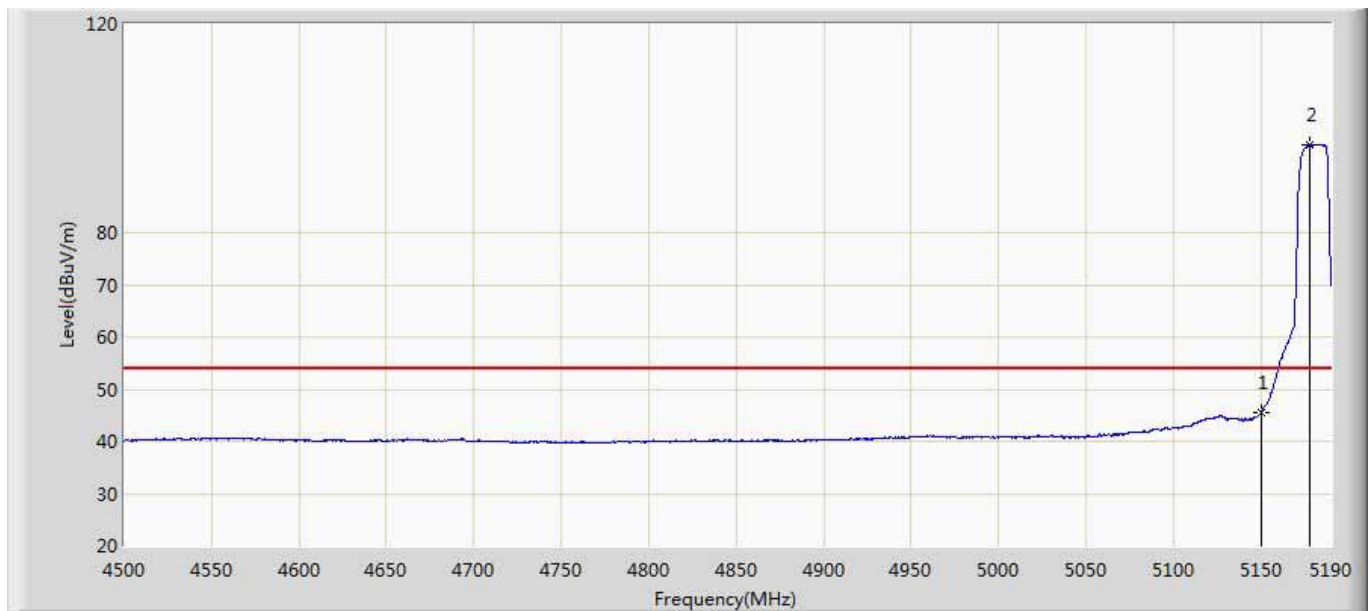
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	42.132	2.598	-11.868	54.000	39.534	AV
2	*	5177.925	89.563	49.978	35.563	54.000	39.585	AV

Engineer: Eric	
Site: AC5	Time: 2017/05/28 - 14:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1:Transmit 5180MHz by 802.11a	



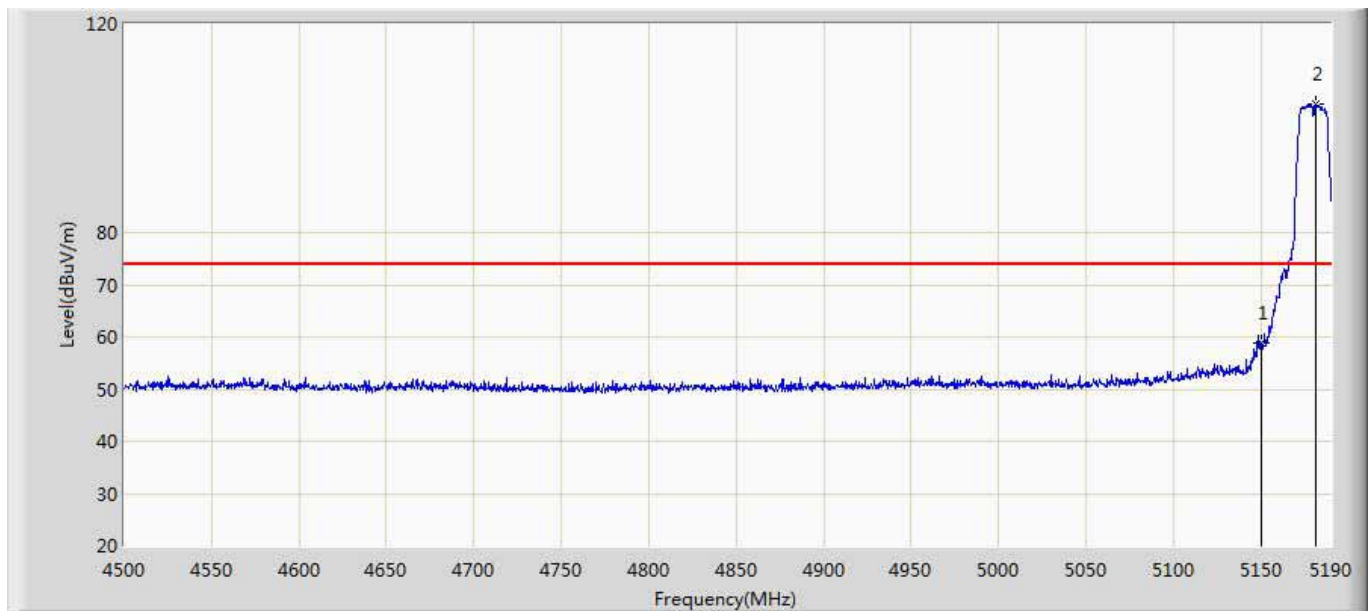
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	51.864	12.330	-22.136	74.000	39.534	PK
2	*	5176.200	96.341	56.742	22.341	74.000	39.599	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/28 - 14:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1:Transmit 5180MHz by 802.11a	



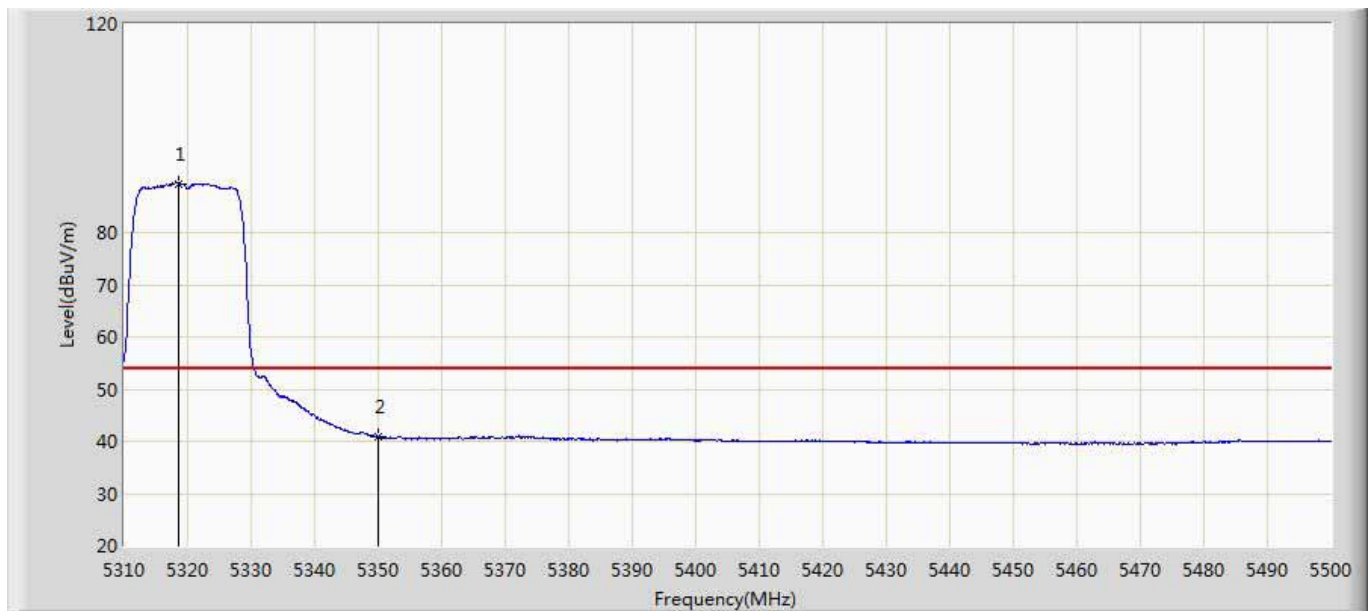
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	45.485	5.951	-8.515	54.000	39.534	AV
2	*	5177.925	96.956	57.371	42.956	54.000	39.585	AV

Engineer: Eric	
Site: AC5	Time: 2017/05/28 - 14:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1:Transmit 5180MHz by 802.11a	



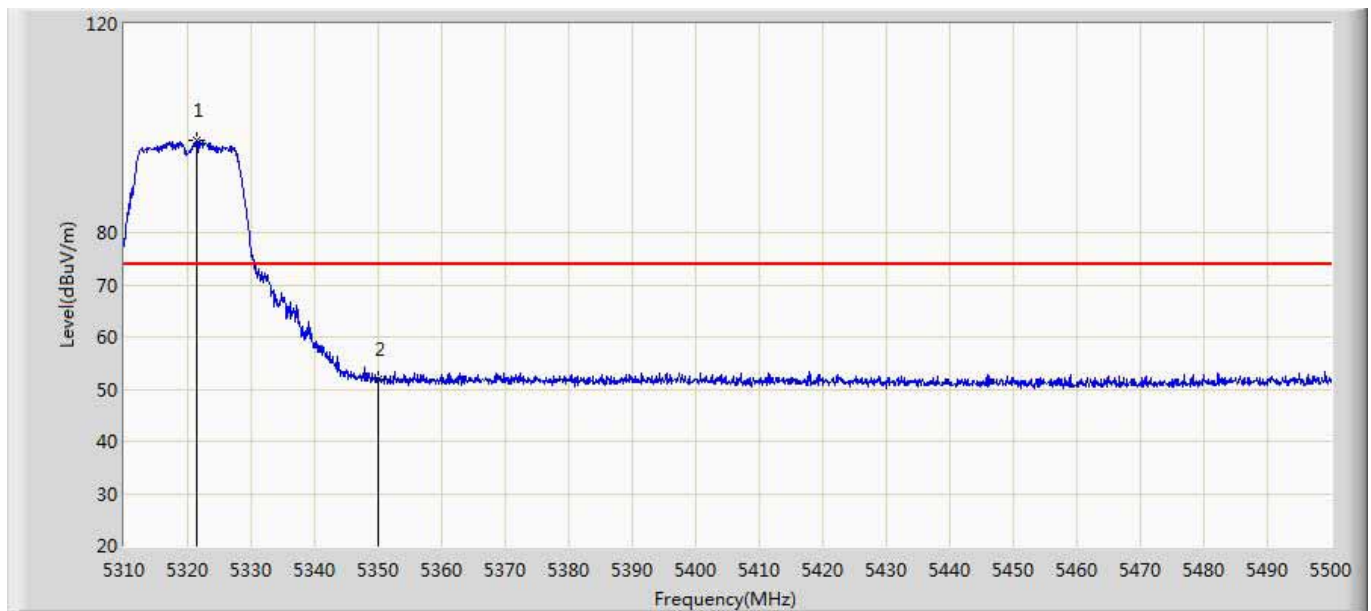
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		5150.000	58.719	19.185	-15.281	74.000	39.534	PK
2	*	5181.375	104.630	65.071	30.630	74.000	39.558	PK

Engineer: Eric	
Site: AC5	Time: 2017/05/28 - 15:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1:Transmit 5320MHz by 802.11a	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5318.550	89.416	49.483	35.416	54.000	39.933	AV
2		5350.000	40.913	1.042	-13.087	54.000	39.871	AV

Engineer: Eric	
Site: AC5	Time: 2017/05/28 - 15:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: AC450 Wireless Nano USB Adapter	Power: AC 120V/60Hz
Note: Mode 1:Transmit 5320MHz by 802.11a	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	5321.400	97.572	57.651	23.572	74.000	39.921	PK
2		5350.000	51.743	11.872	-22.257	74.000	39.871	PK