FCC Test Report

FCC ID: QISAP6050DN6150DN

Project No. : 1604C201B
Equipment : Wireless LAN Access Point
Test Model : AP6050DN, AP6150DN
Applicant : Huawei Technologies Co.,Ltd.
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd.,Bantian, Longgang District, Shenzhen 518129 China

Date of Receipt : Sep. 09, 2016
Date of Test : Sep. 09, 2016 ~ Oct. 31, 2016
Issued Date : Nov. 01, 2016
Tested by : BTL Inc.

Testing Engineer : _____
(Kevin Li)

Technical Manager : _____
(Bill Zhang)

Authorized Signatory : _____
(Steven Lu)

BTL INC.

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Testing Laboratory
2640

Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

BTL's report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

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BTL's laboratory quality assurance procedures are in compliance with the **ISO Guide17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCE-1-1604C201B	Original Issue.	Nov. 01, 2016

1.CERIFICATION

Equipment : Wireless LAN Access Point
Brand Name : HUAWEI
Test Model : AP6050DN, AP6150DN
Applicant : Huawei Technologies Co.,Ltd.
Manufacturer : Huawei Technologies Co.,Ltd.
Address : Administration Building, Huawei Base, Bantian, Longgang District ,Shenzhen 518129, P.R.China
Factory : CIG Shanghai Co.,Ltd., Shanghai Branch.
Address : F/2,3 Building 1, No. 505 Jiangyue Road, Minhang District, Shanghai, P.R. China
Date of Test : Sep. 09, 2016 ~ Oct. 31, 2016
Test Sample : Engineering Sample
Standard(s) : FCC Part 15, Subpart B
ANSI C63.4-2014

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.
The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCE-1-1604C201B) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

EMC Emission				
Standard(s)	Test Item	Limit	Judgment	Remark
FCC Part15, Subpart B	Conducted Emission	Class B	PASS	
	Radiated emission Below 1 GHz	Class B	PASS	
	Radiated emission Above 1 GHz	Class B	PASS	**NOTE(2)**

NOTE:
 (1) ” N/A” denotes test is not applicable to this device.
 (2) The EUT's max operating frequency is 5GHz which exceeds 108 MHz, so the test will be performed.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report at the location of No.3,Jinshagang 1st Road, Shixia, Dalang Town,Dongguan, Guangdong, China.

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

The reported uncertainty of measurement **y ± U**, where expanded uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately **95**%.

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-C02	CISPR	150 kHz ~ 30MHz	2.32

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DG-CB03 (3m)	CISPR	9KHz ~ 30MHz	V	3.79
		9KHz ~ 30MHz	H	3.57
		30MHz ~ 200MHz	V	3.82
		30MHz ~ 200MHz	H	3.78
		200MHz ~ 1,000MHz	V	4.10
		200MHz ~ 1,000MHz	H	4.06

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DG-CB03 (3m)	CISPR	1GHz ~ 18GHz	V	3.12
		1GHz ~ 18GHz	H	3.68

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless LAN Access Point
Brand Name	HUAWEI
Test Model	AP6050DN, AP6150DN
Model Difference	AP6050DN: built-in omnidirectional dual-band antenna. AP6150DN: external omnidirectional dual-band antenna.
Power Source	#1 DC voltage supplied from AC Adapter. #2 Supplied from PoE. Model: PoE35-54A
Power Rating	#1 DC 12V 2A #2 PoE -48V

Note:
1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	FULL SYSTEM

For Conducted Test	
Final Test Mode	Description
Mode 1	FULL SYSTEM

For Radiated Test	
Final Test Mode	Description
Mode 1	FULL SYSTEM

3.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Adapter mode
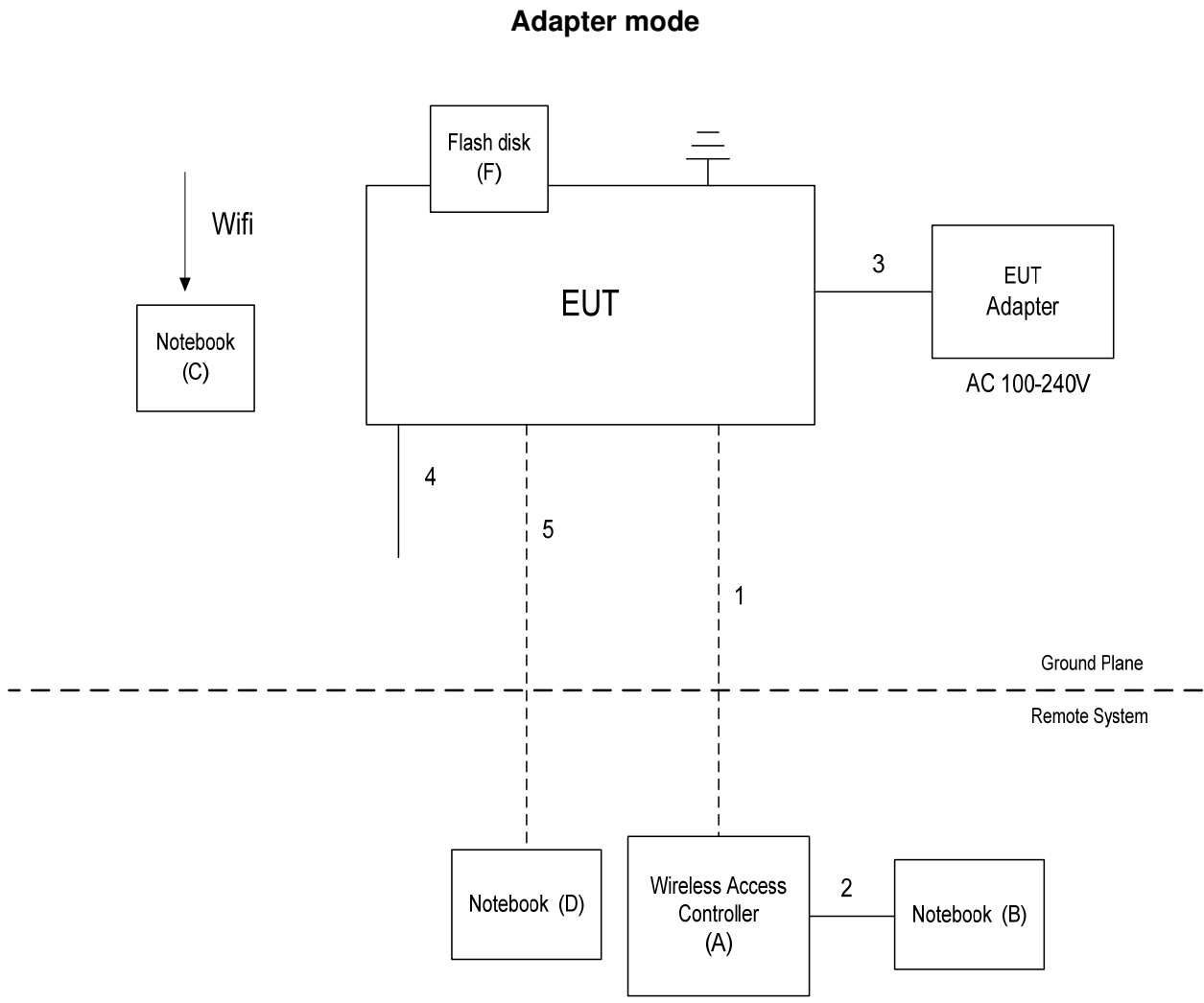
PoE mode
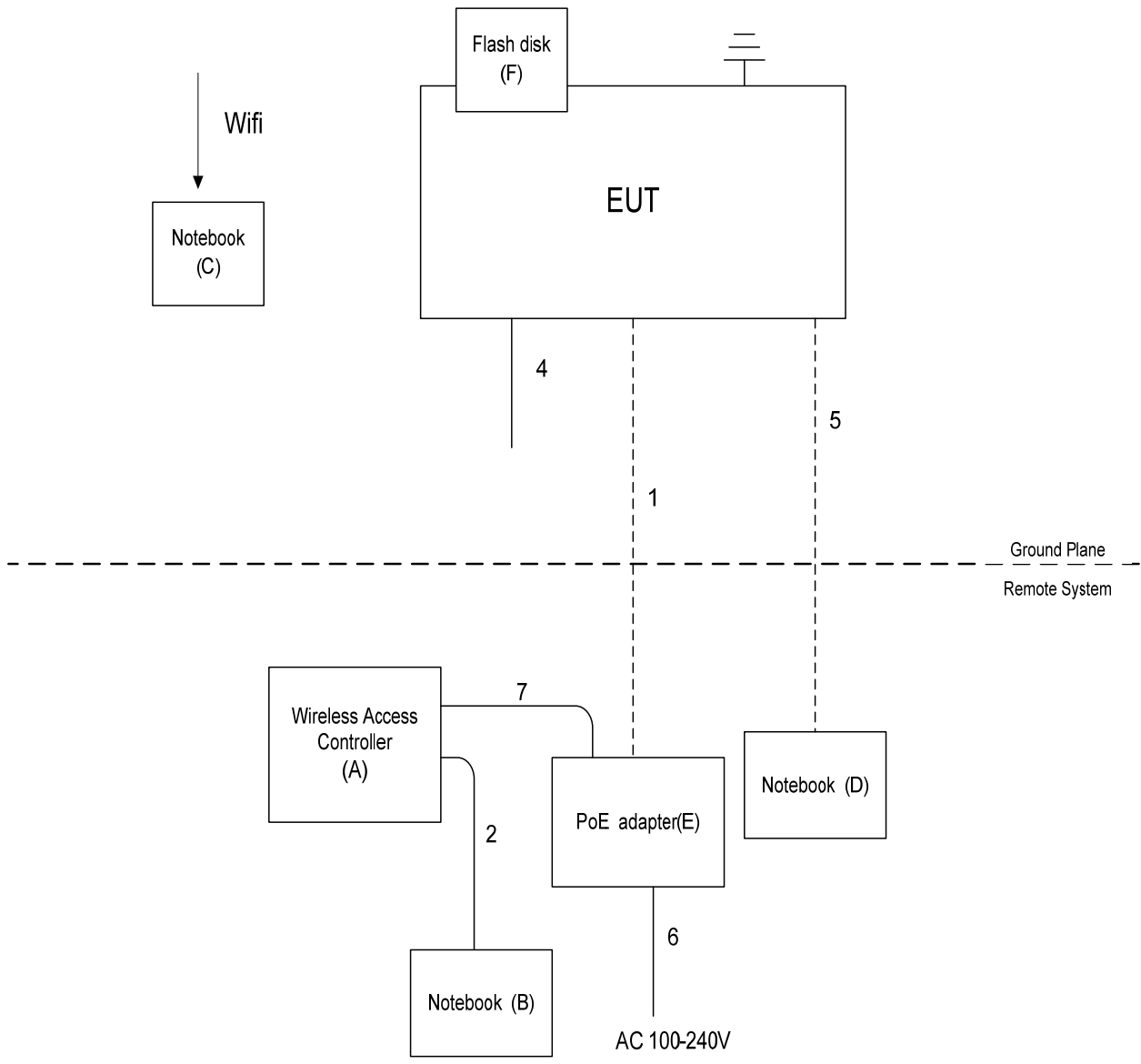
3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
A	Wireless Access Controller	HUAWEI	AC6605-26-RWP	N/A	N/A
B	Notebook	DELL	latitude E5510	DOC	N/A
C	Notebook	DELL	latitude E5510	DOC	N/A
D	Notebook	Lenovo	E445	NA	MP-05Y56S
E	PoE adapter	HUAWEI	PoE35-54A	N/A	N/A
F	Flash DISK	Kingston	DT101G2/8G	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	10m	RJ45 Cable
2	NO	NO	3m	RJ45 Cable
3	NO	NO	1.5m	DC Cable
4	YES	NO	1.8m	Console Cable
5	NO	NO	10m	RJ45 Cable
6	NO	NO	1.8m	AC main cable
7	NO	NO	3m	RJ45 Cable

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION   (FREQUENCYRANGE 150KHZ-30MHZ)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:
(1) The tighter limit applies at the band edges.
(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
(3) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)
Margin Level = Measurement Value - Limit Value

4.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	0052765	Mar. 27, 2017
2	LISN	R&S	ENV216	101447	Mar. 27, 2017
3	Test Cable	emci	RG223(9KHz-30 MHz)	C_17	Mar. 10, 2017
4	EMI Test Receiver	R&S	ESCI	100382	Mar. 27, 2017
5	50Ω Terminator	SHX	TF2-3G-A	08122901	Mar. 27, 2017
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Remark: "N/A" denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

4.1.3 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipmentspowered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

d. LISN at least 80 cm from nearest part of EUT chassis.

e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

f. First the whole spectrum of emission caused by equipment under test(EUT) is recorded with Detector set to peak.Peak value recorded in table if the margin from QP Limit is larger than 2dB,otherwise,QP value is recorded, Measuring frequency range from 150KHz to 30MHz.

4.1.4 DEVIATIONFROMTESTSTANDARD

No deviation

4.1.5 TESTSETUP
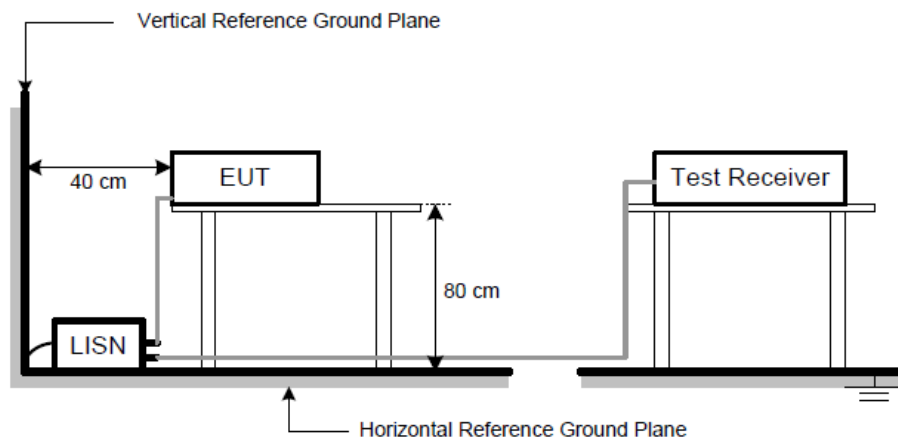
4.1.6EUT OPERATING CONDITIONS

The EUT exercise program used during radiated and/or conducted emission measurement was designed to exercise the various system components in a manner similar to a typical use.

4.1.7 TEST RESULTS

Remark

(1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz；SPA setting in RBW=10KHz,VBW =10KHz, Swp. Time = 0.3 sec./MHz。 Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=10KHz,VBW=10KHz, Swp. Time =0.3 sec./MHz.

(2) All readings are QP Mode value unless otherwise stated AVG in column of 『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits,the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform。In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.

EUT	Wireless LAN Access Point	Model Name	AP6050DN
Temperature	25°C	Relative Humidity	53%
Test Voltage	AC 120V/60Hz	Phase	Line
Test Mode	FULL SYSTEM		
Note	Adapter		
Test Engineer	Kevin Li		
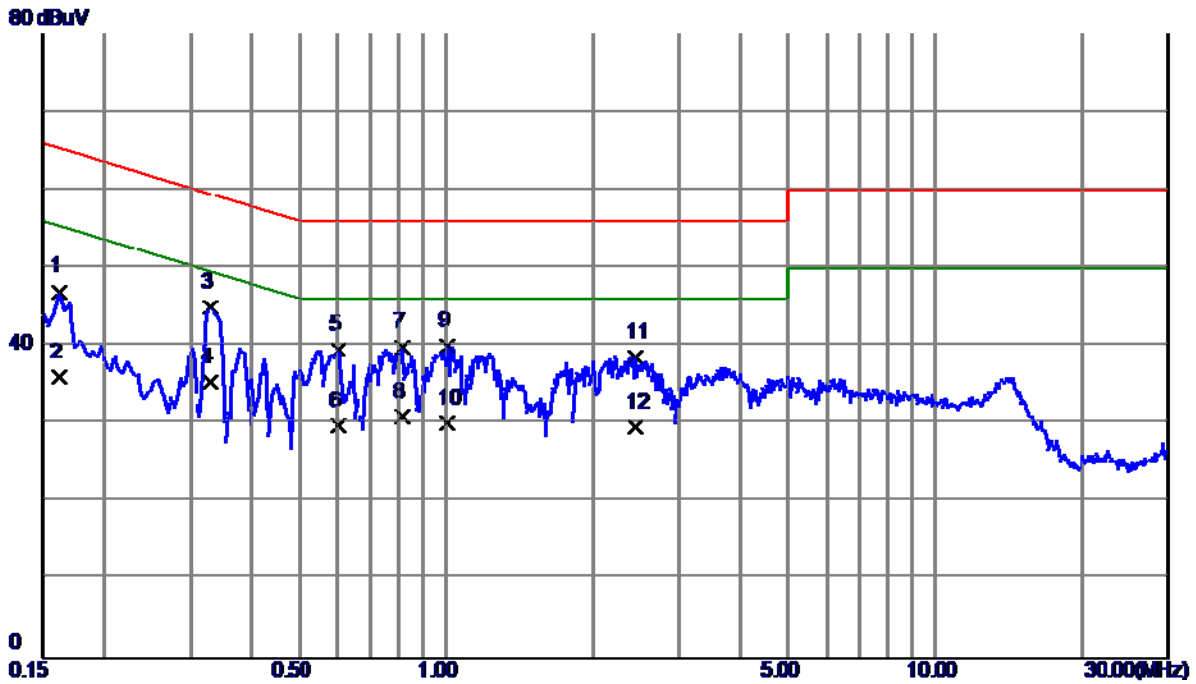
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.1620	37.44	9.52	46.96	65.36	-18.40	QP
2	0.1620	26.50	9.52	36.02	55.36	-19.34	AVG
3	0.3300	35.47	9.53	45.00	59.45	-14.45	QP
4 *	0.3300	25.80	9.53	35.33	49.45	-14.12	AVG
5	0.6020	29.88	9.64	39.52	56.00	-16.48	QP
6	0.6020	20.10	9.64	29.74	46.00	-16.26	AVG
7	0.8139	30.02	9.75	39.77	56.00	-16.23	QP
8	0.8139	21.20	9.75	30.95	46.00	-15.05	AVG
9	1.0060	30.22	9.76	39.98	56.00	-16.02	QP
10	1.0060	20.30	9.76	30.06	46.00	-15.94	AVG
11	2.4460	28.53	10.07	38.60	56.00	-17.40	QP
12	2.4460	19.50	10.07	29.57	46.00	-16.43	AVG

EUT	Wireless LAN Access Point	Model Name	AP6050DN
Temperature	25°C	Relative Humidity	53%
Test Voltage	AC 120V/60Hz	Phase	Neutral
Test Mode	FULL SYSTEM		
Note	Adapter		
Test Engineer	Kevin Li		
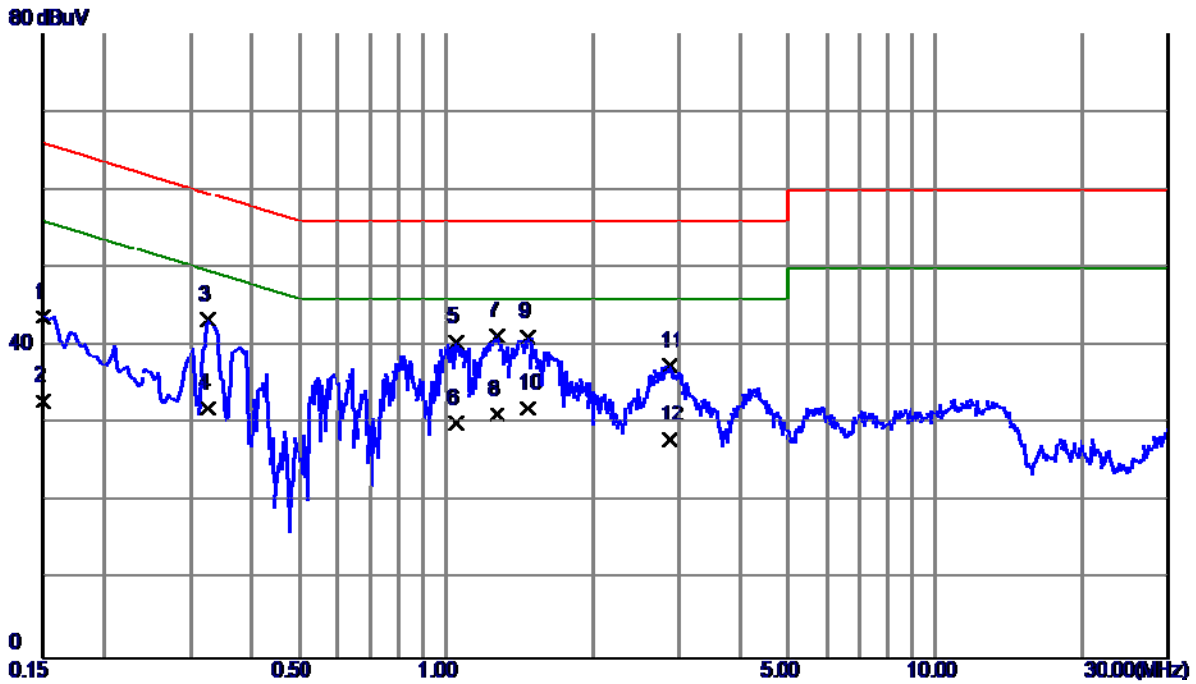
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.1500	34.14	9.52	43.66	66.00	-22.34	QP
2	0.1500	23.50	9.52	33.02	56.00	-22.98	AVG
3	0.3260	33.78	9.53	43.31	59.55	-16.24	QP
4	0.3260	22.50	9.53	32.03	49.55	-17.52	AVG
5	1.0460	30.88	9.66	40.54	56.00	-15.46	QP
6	1.0460	20.40	9.66	30.06	46.00	-15.94	AVG
7	1.2740	31.66	9.67	41.33	56.00	-14.67	QP
8	1.2740	21.50	9.67	31.17	46.00	-14.83	AVG
9	1.4740	31.43	9.67	41.10	56.00	-14.90	QP
10 *	1.4740	22.40	9.67	32.07	46.00	-13.93	AVG
11	2.8699	27.67	9.79	37.46	56.00	-18.54	QP
12	2.8699	18.20	9.79	27.99	46.00	-18.01	AVG

EUT	Wireless LAN Access Point	Model Name	AP6050DN
Temperature	25°C	Relative Humidity	53%
Test Voltage	AC 120V/60Hz	Phase	Line
Test Mode	FULL SYSTEM		
Note	PoE		
Test Engineer	Kevin Li		
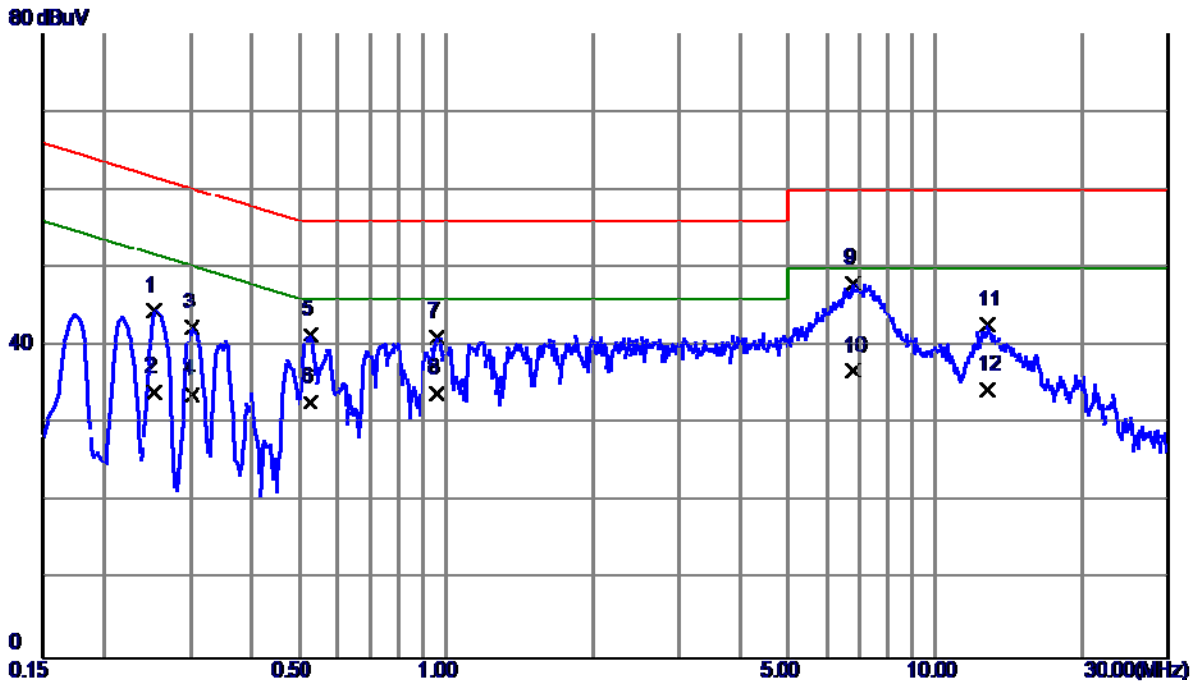
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.2540	34.95	9.53	44.48	61.63	-17.15	QP
2	0.2540	24.50	9.53	34.03	51.63	-17.60	AVG
3	0.3020	32.81	9.53	42.34	60.19	-17.85	QP
4	0.3020	24.20	9.53	33.73	50.19	-16.46	AVG
5	0.5299	31.77	9.64	41.41	56.00	-14.59	QP
6	0.5299	23.10	9.64	32.74	46.00	-13.26	AVG
7	0.9580	31.37	9.76	41.13	56.00	-14.87	QP
8 *	0.9580	24.20	9.76	33.96	46.00	-12.04	AVG
9	6.7980	37.81	10.13	47.94	60.00	-12.06	QP
10	6.7980	26.70	10.13	36.83	50.00	-13.17	AVG
11	12.7940	32.41	10.29	42.70	60.00	-17.30	QP
12	12.7940	24.11	10.29	34.40	50.00	-15.60	AVG

EUT	Wireless LAN Access Point	Model Name	AP6050DN
Temperature	25°C	Relative Humidity	53%
Test Voltage	AC 120V/60Hz	Phase	Neutral
Test Mode	FULL SYSTEM		
Note	PoE		
Test Engineer	Kevin Li		
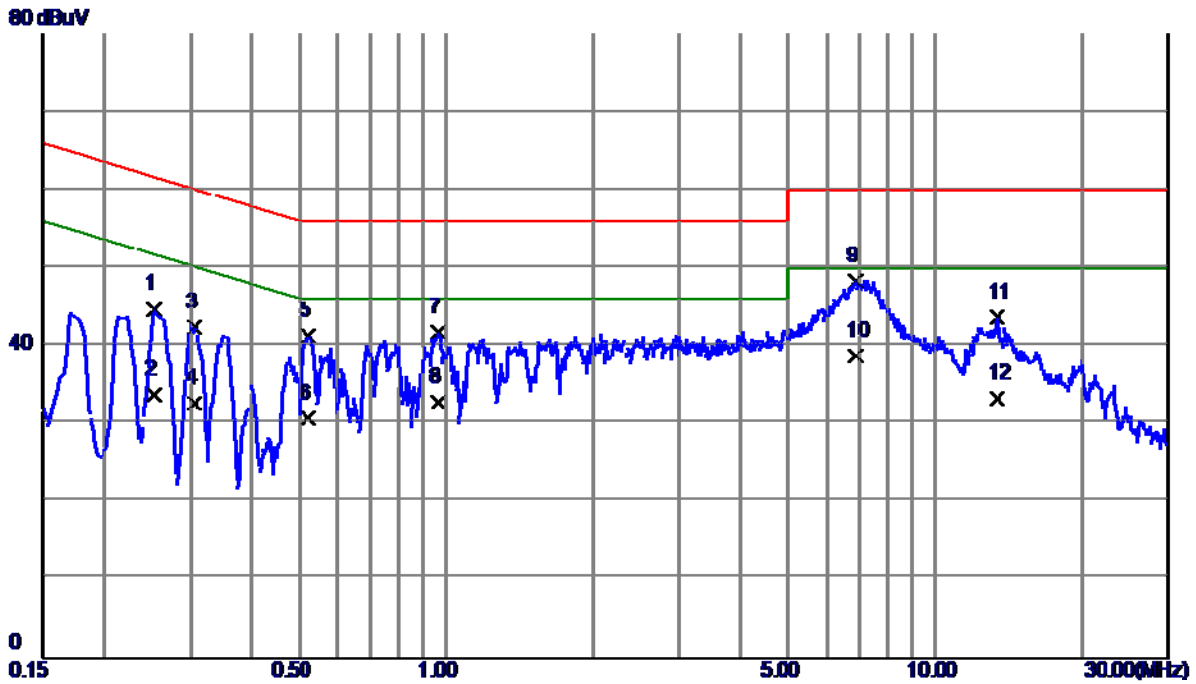
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.2540	35.19	9.53	44.72	61.63	-16.91	QP
2	0.2540	24.30	9.53	33.83	51.63	-17.80	AVG
3	0.3060	32.89	9.53	42.42	60.08	-17.66	QP
4	0.3060	23.10	9.53	32.63	50.08	-17.45	AVG
5	0.5220	31.88	9.44	41.32	56.00	-14.68	QP
6	0.5220	21.30	9.44	30.74	46.00	-15.26	AVG
7	0.9660	32.06	9.66	41.72	56.00	-14.28	QP
8	0.9660	23.10	9.66	32.76	46.00	-13.24	AVG
9	6.9020	38.44	9.95	48.39	60.00	-11.61	QP
10 *	6.9020	28.70	9.95	38.65	50.00	-11.35	AVG
11	13.3580	33.27	10.34	43.61	60.00	-16.39	QP
12	13.3580	22.90	10.34	33.24	50.00	-16.76	AVG

EUT	Wireless LAN Access Point	Model Name	AP6150DN
Temperature	25°C	Relative Humidity	53%
Test Voltage	AC 120V/60Hz	Phase	Line
Test Mode	FULL SYSTEM		
Note	Adapter		
Test Engineer	Kevin Li		

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.3420	34.74	9.53	44.27	59.15	-14.88	QP
2	0.3420	24.10	9.53	33.63	49.15	-15.52	AVG
3	0.7260	32.73	9.67	42.40	56.00	-13.60	QP
4	0.7260	21.41	9.67	31.08	46.00	-14.92	AVG
5	2.0700	26.48	9.92	36.40	56.00	-19.60	QP
6	2.0700	12.45	9.92	22.37	46.00	-23.63	AVG
7	7.2380	27.56	10.16	37.72	60.00	-22.28	QP
8	7.2380	15.60	10.16	25.76	50.00	-24.24	AVG
9	21.4740	33.82	10.40	44.22	60.00	-15.78	QP
10	21.4740	28.40	10.40	38.80	50.00	-11.20	AVG
11	29.2060	38.49	10.38	48.87	60.00	-11.13	QP
12 *	29.2060	33.10	10.38	43.48	50.00	-6.52	AVG

EUT	Wireless LAN Access Point	Model Name	AP6150DN
Temperature	25°C	Relative Humidity	53%
Test Voltage	AC 120V/60Hz	Phase	Neutral
Test Mode	FULL SYSTEM		
Note	Adapter		
Test Engineer	Kevin Li		

No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.3287	34.16	9.53	43.69	59.48	-15.79	QP
2	0.3287	27.40	9.53	36.93	49.48	-12.55	AVG
3	0.7247	30.97	9.47	40.44	56.00	-15.56	QP
4	0.7247	21.40	9.47	30.87	46.00	-15.13	AVG
5	0.9754	31.22	9.66	40.88	56.00	-15.12	QP
6	0.9754	25.40	9.66	35.06	46.00	-10.94	AVG
7	3.2856	28.70	9.82	38.52	56.00	-17.48	QP
8	3.2856	18.50	9.82	28.32	46.00	-17.68	AVG
9	16.6513	31.77	10.41	42.18	60.00	-17.82	QP
10	16.6513	26.69	10.41	37.10	50.00	-12.90	AVG
11	26.5548	34.91	10.55	45.46	60.00	-14.54	QP
12 *	26.5548	31.30	10.55	41.85	50.00	-8.15	AVG

EUT	Wireless LAN Access Point	Model Name	AP6150DN
Temperature	25°C	Relative Humidity	53%
Test Voltage	AC 120V/60Hz	Phase	Line
Test Mode	FULL SYSTEM		
Note	PoE		
Test Engineer	Kevin Li		
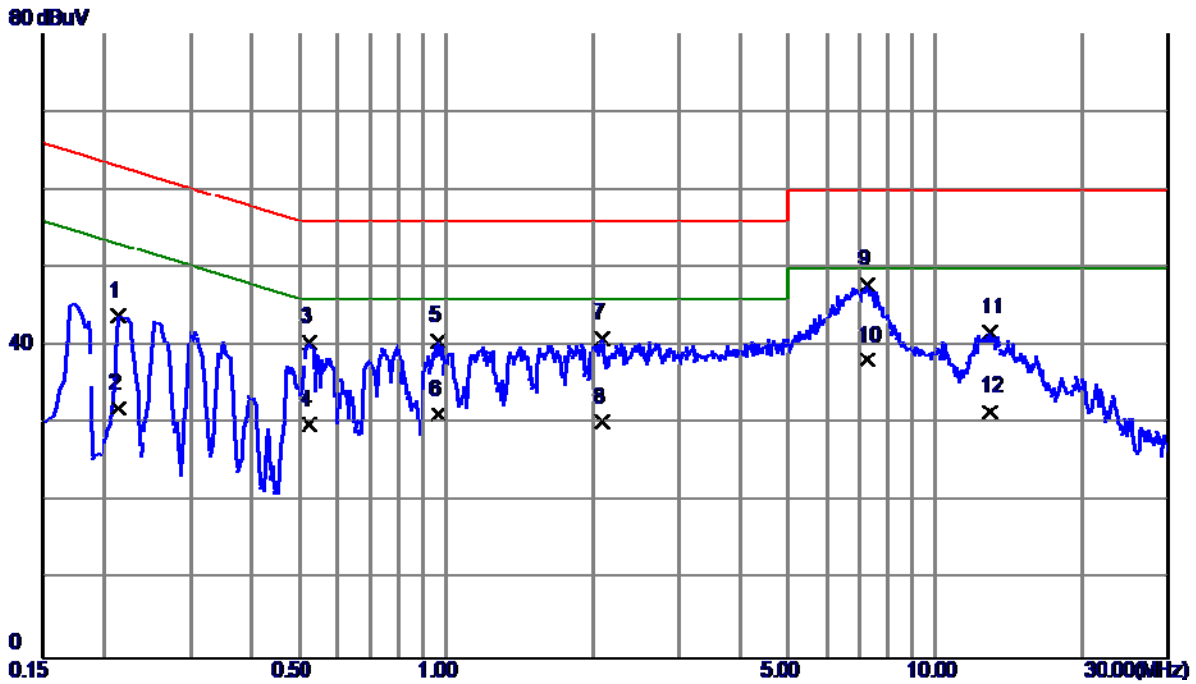
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector
1	0.2140	34.24	9.53	43.77	63.05	-19.28	QP
2	0.2140	22.40	9.53	31.93	53.05	-21.12	AVG
3	0.5260	30.85	9.64	40.49	56.00	-15.51	QP
4	0.5260	20.30	9.64	29.94	46.00	-16.06	AVG
5	0.9620	30.95	9.76	40.71	56.00	-15.29	QP
6	0.9620	21.40	9.76	31.16	46.00	-14.84	AVG
7	2.0860	30.97	9.92	40.89	56.00	-15.11	QP
8	2.0860	20.30	9.92	30.22	46.00	-15.78	AVG
9	7.2700	37.74	10.16	47.90	60.00	-12.10	QP
10 *	7.2700	28.00	10.16	38.16	50.00	-11.84	AVG
11	12.9540	31.44	10.30	41.74	60.00	-18.26	QP
12	12.9540	21.30	10.30	31.60	50.00	-18.40	AVG

EUT	Wireless LAN Access Point	Model Name	AP6150DN
Temperature	25°C	Relative Humidity	53%
Test Voltage	AC 120V/60Hz	Phase	Neutral
Test Mode	FULL SYSTEM		
Note	PoE		
Test Engineer	Kevin Li		

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	
1	0.1740	36.19	9.44	45.63	64.77	-19.14	QP	
2	0.1740	25.59	9.44	35.03	54.77	-19.74	AVG	
3	0.2151	34.35	9.53	43.88	63.01	-19.13	QP	
4	0.2151	25.40	9.53	34.93	53.01	-18.08	AVG	
5	0.7900	30.73	9.54	40.27	56.00	-15.73	QP	
6	0.7900	23.10	9.54	32.64	46.00	-13.36	AVG	
7	2.2940	30.70	9.75	40.45	56.00	-15.55	QP	
8	2.2940	23.40	9.75	33.15	46.00	-12.85	AVG	
9 *	7.1220	37.54	9.97	47.51	60.00	-12.49	QP	
10	7.1220	26.89	9.97	36.86	50.00	-13.14	AVG	
11	12.2739	32.91	10.33	43.24	60.00	-16.76	QP	
12	12.2739	21.50	10.33	31.83	50.00	-18.17	AVG	

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT
Below 1 GHz
Measurement Method and Applied Limits:
ANSI C63.4:

Frequency (MHz)	Class A (at 10m)		Class B (at 3m)	
	(uV/m) Field strength	(dBuV/m) Field strength	(uV/m) Field strength	(dBuV/m) Field strength
30 - 88	90	39	100	40
88 - 216	150	43.5	150	43.5
216 - 960	210	46.4	200	46
Above 960	300	49.5	500	54

Above 1 GHz
Measurement Method and Applied Limits:
ANSI C63.4:

Frequency (MHz)	Class A				Class B	
	(dBuV/m) (at 3m)		(dBuV/m) (at 10m)		(dBuV/m) (at 3m)	
	Peak	Average	Peak	Average	Peak	Average
Above 1000	80	60	69.5	49.5	74	54

FREQUENCY RANGE OF RADIATED MEASUREMENT (FOR UNINTENTIONAL RADIATORS)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

NOTE:
  (1) The limit for radiated test was performed according to as following:
      FCC Part 15, Subpart B
  (2) The tighter limit applies at the band edges.
  (3) Emission level (dBuV/m) = 20log Emission level (uV/m).
      3m Emission level = 10m Emission level + 20log(10m/3m).
  (4) The test result calculated as following:
      Measurement Value = Reading Level + Correct Factor
      Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
      Margin Level = Measurement Value - Limit Value

4.2.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 27, 2017
2	Amplifier	HP	8447D	2944A09673	Nov. 09, 2016
3	Receiver	AGILENT	N9038A	MY52130039	Oct. 10, 2017
4	Test Cable	emci	LMR-400(30MHz-1GHz)	C-01	Jun. 27, 2017
5	Control	CT	SC100	N/A	N/A
6	Position Control	MF	MF-7802	MF780208416	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
8	Amplifier	Agilent	8449B	3008A02274	Oct. 31, 2017
9	Receiver	AGILENT	N9038A	MY52130039	Oct. 10, 2017
10	Test Cable	emci	EMC104-SM-SM-10000(1GHz－26.5GHz)	C-68	Jun. 27, 2017
11	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Remark: "N/A" denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

4.2.3 TEST PROCEDURE

a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)

b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)

c. The height of the equipment or of the substitution antenna shall be 0.8 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).

e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.

f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)

h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)

i. For the actual test configuration, please refer to the related Item - Block Diagram of system tested (please refer to 3.3).

Note:

For measurement of frequency 1GHz -30GHz, the EUT was set 3 meters away from the receiver antenna.

Emission level (dBuV/m)=20log Emission level (uV/m).

The limits above 26.5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade from 3m to 1m

Distance extrapolation factor = 20 log (3m/1m) dB ;

Limit line = specific limits (dBuV) + 9.5 dB.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz
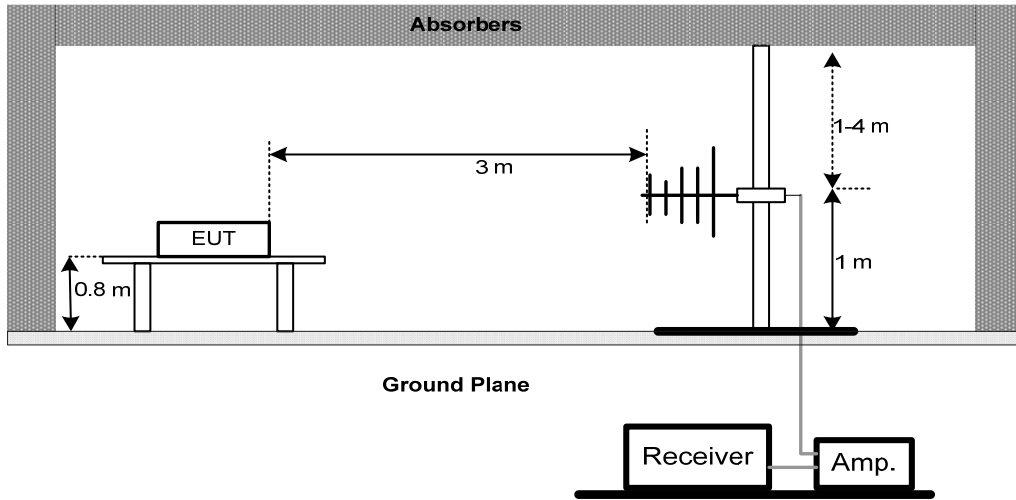
(B) Radiated Emission Test Set-Up Frequency 1 GHz
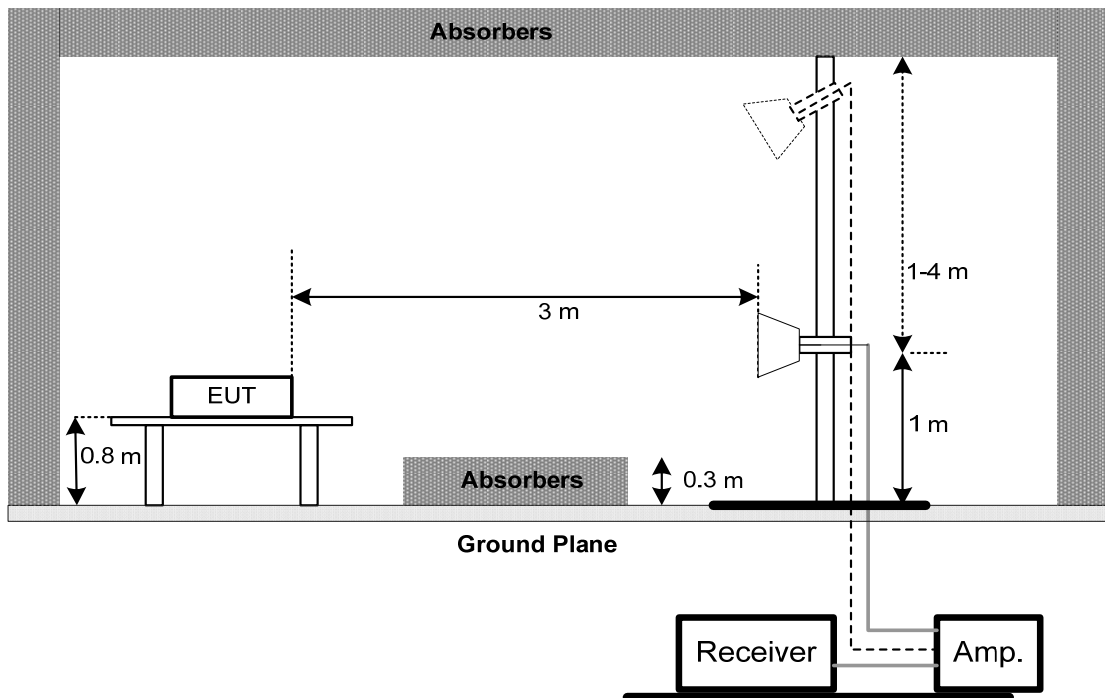
4.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.6** unless otherwise a special operating condition is specified in the follows during the testing.

4.2.7 TEST RESULTS-BELOW 1GHZ

Remark：

(1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(2) Measuring frequency range from 30MHz to 1000MHz。

(3) If the peak scan value lower limit more than 20dB, then this signal data does not show in table。

EUT	Wireless LAN Access Point	Model Name	AP6050DN
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	FULL SYSTEM		
Note	Adapter		
Test Engineer	Kevin Li		
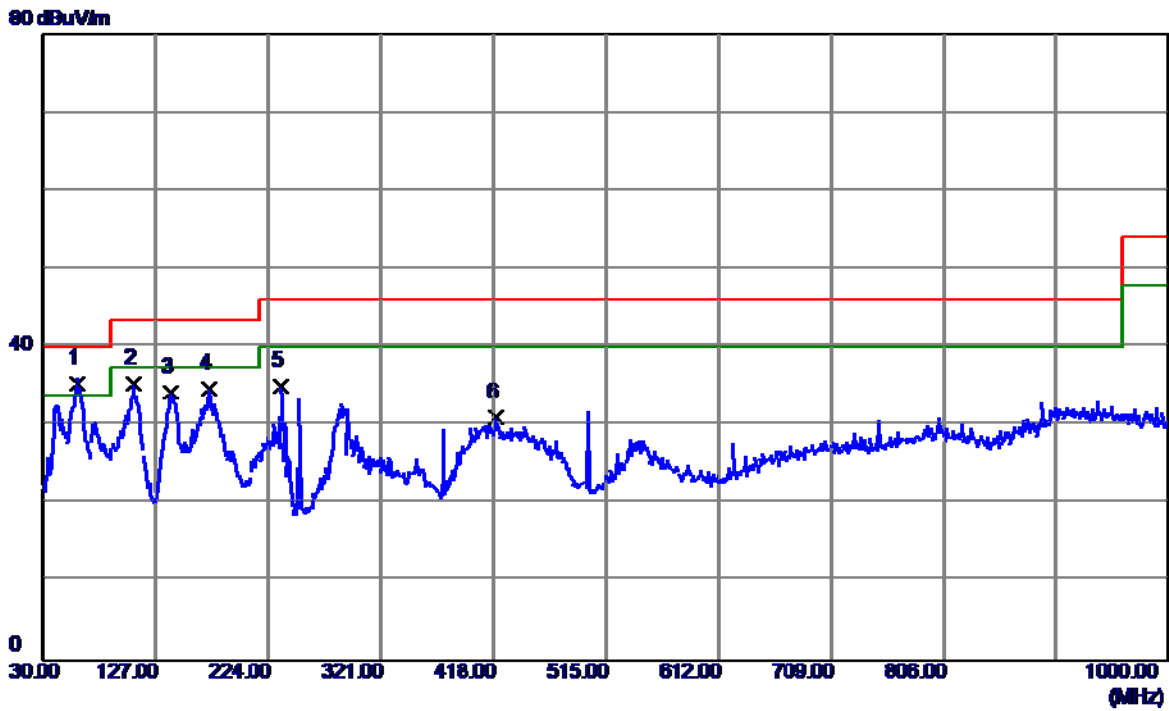
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	
1 *	58.6150	49.21	-13.80	35.41	40.00	-4.59	QP
2	107.1150	50.27	-14.89	35.38	43.50	-8.12	QP
3	140.0950	47.93	-13.74	34.19	43.50	-9.31	QP
4	173.5600	47.23	-12.45	34.78	43.50	-8.72	QP
5	234.6700	48.56	-13.56	35.00	46.00	-11.00	QP
6	420.4250	38.85	-7.87	30.98	46.00	-15.02	QP

EUT	Wireless LAN Access Point	Model Name	AP6050DN
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	FULL SYSTEM		
Note	Adapter		
Test Engineer	Kevin Li		
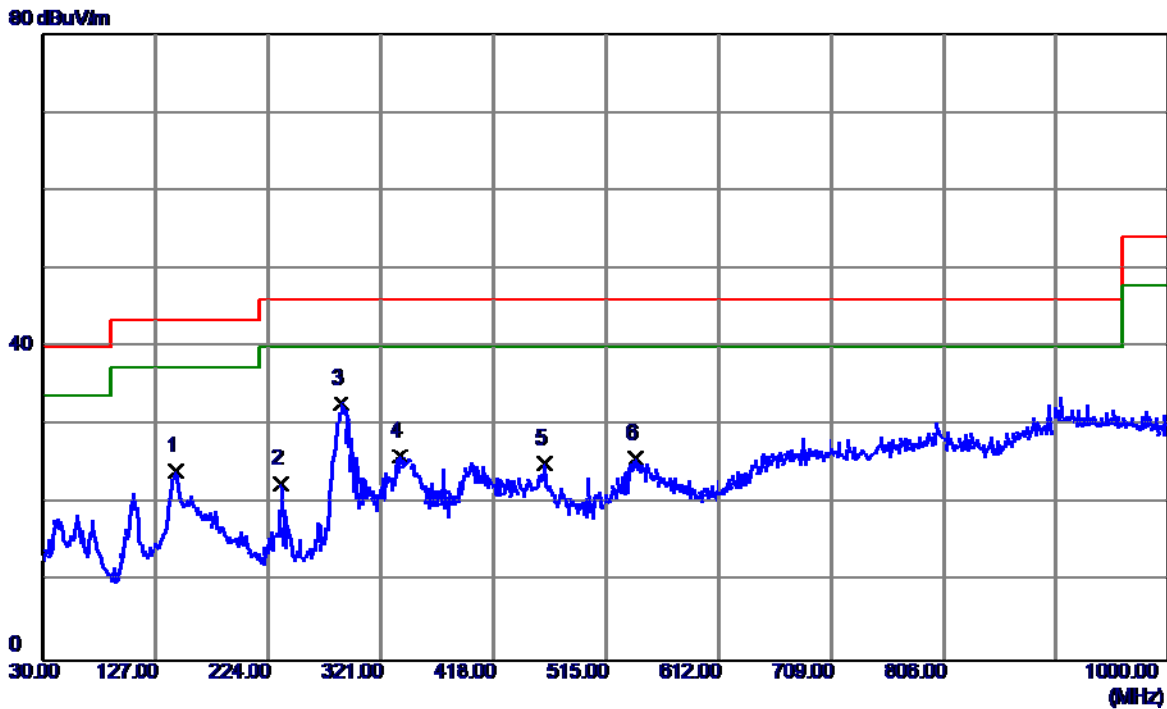
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		Detector
1	143.9750	37.53	-13.43	24.10	43.50	-19.40		QP
2	234.6700	36.19	-13.56	22.63	46.00	-23.37		QP
3 *	286.0799	44.38	-11.56	32.82	46.00	-13.18		QP
4	337.4900	37.09	-10.95	26.14	46.00	-19.86		QP
5	462.1350	33.51	-8.42	25.09	46.00	-20.91		QP
6	541.1900	31.21	-5.45	25.76	46.00	-20.24		QP

EUT	Wireless LAN Access Point	Model Name	AP6050DN
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	FULL SYSTEM		
Note	PoE		
Test Engineer	Kevin Li		
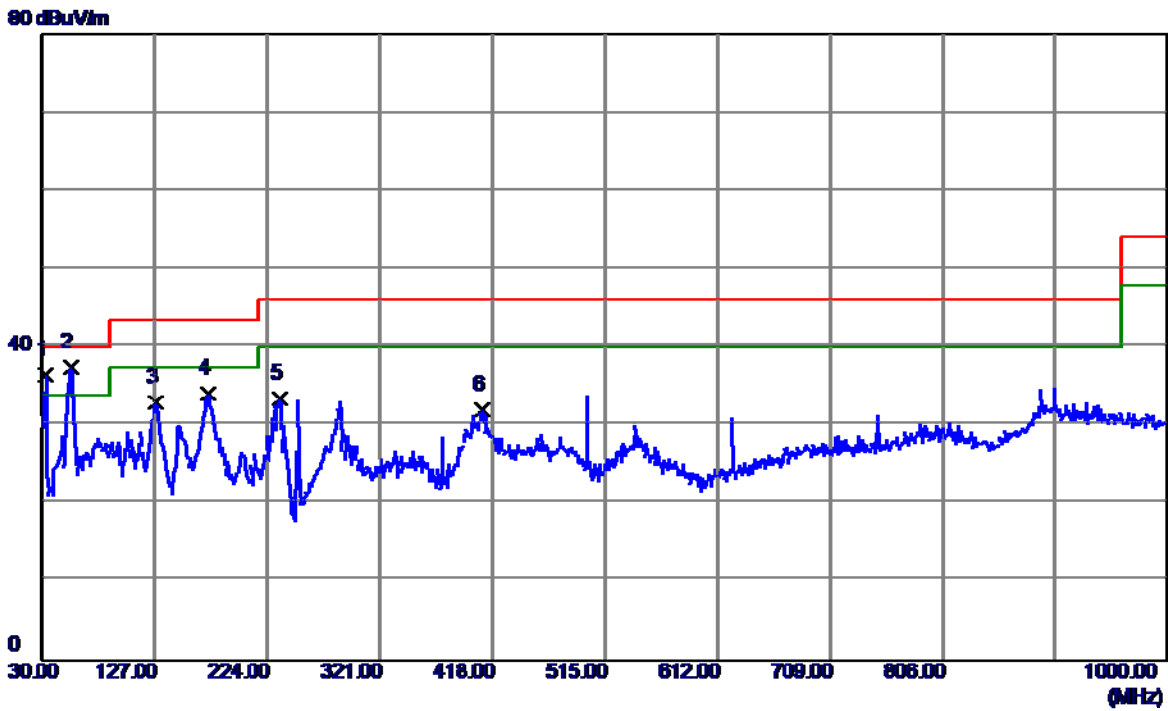
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		Detector
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		Detector
1	33.3950	50.64	-14.12	36.52	40.00	-3.48		QP
2 *	54.2500	50.93	-13.53	37.40	40.00	-2.60		QP
3	128.4550	45.43	-12.52	32.91	43.50	-10.59		QP
4	173.0750	46.52	-12.43	34.09	43.50	-9.41		QP
5	234.6700	47.01	-13.56	33.45	46.00	-12.55		QP
6	409.2700	39.84	-7.82	32.02	46.00	-13.98		QP

EUT	Wireless LAN Access Point	Model Name	AP6050DN
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	FULL SYSTEM		
Note	PoE		
Test Engineer	Kevin Li		
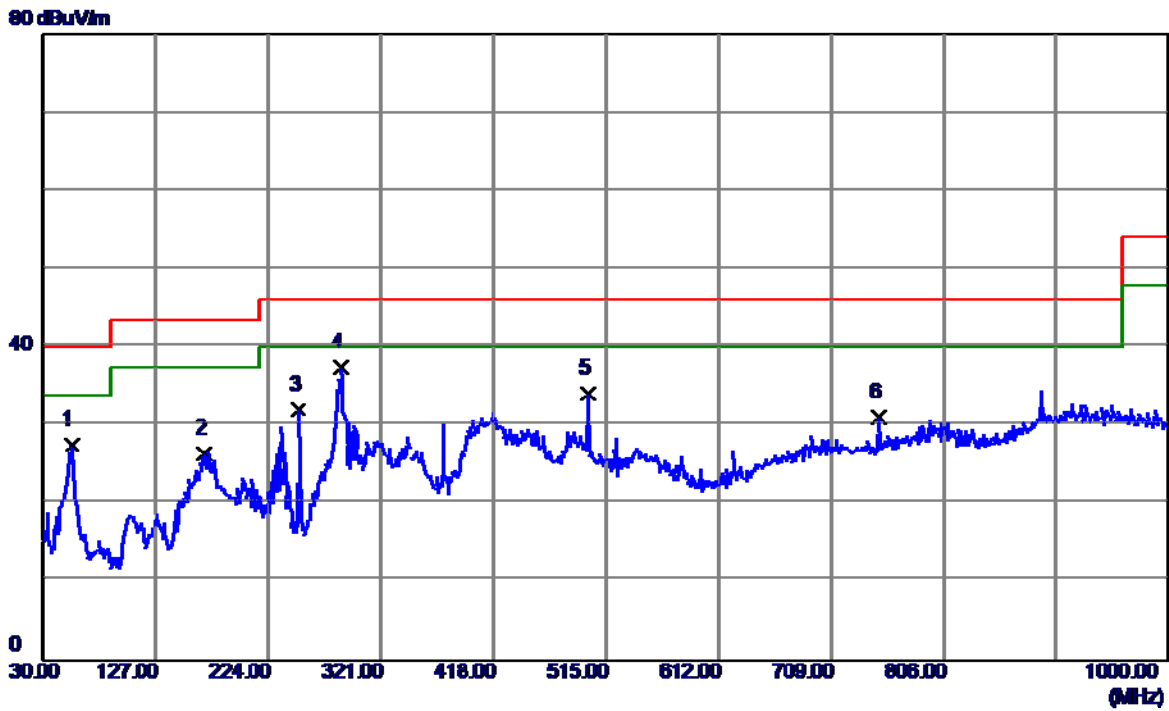
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	54.2500	41.11	−13.53	27.58	40.00	−12.42	QP
2	169.1950	38.70	−12.23	26.47	43.50	−17.03	QP
3	250.1900	46.25	−14.20	32.05	46.00	−13.95	QP
4 *	286.0799	48.95	−11.56	37.39	46.00	−8.61	QP
5	499.9650	43.75	−9.72	34.03	46.00	−11.97	QP
6	750.2250	32.93	−1.96	30.97	46.00	−15.03	QP

EUT	Wireless LAN Access Point	Model Name	AP6150DN
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	FULL SYSTEM		
Note	Adapter		
Test Engineer	Kevin Li		
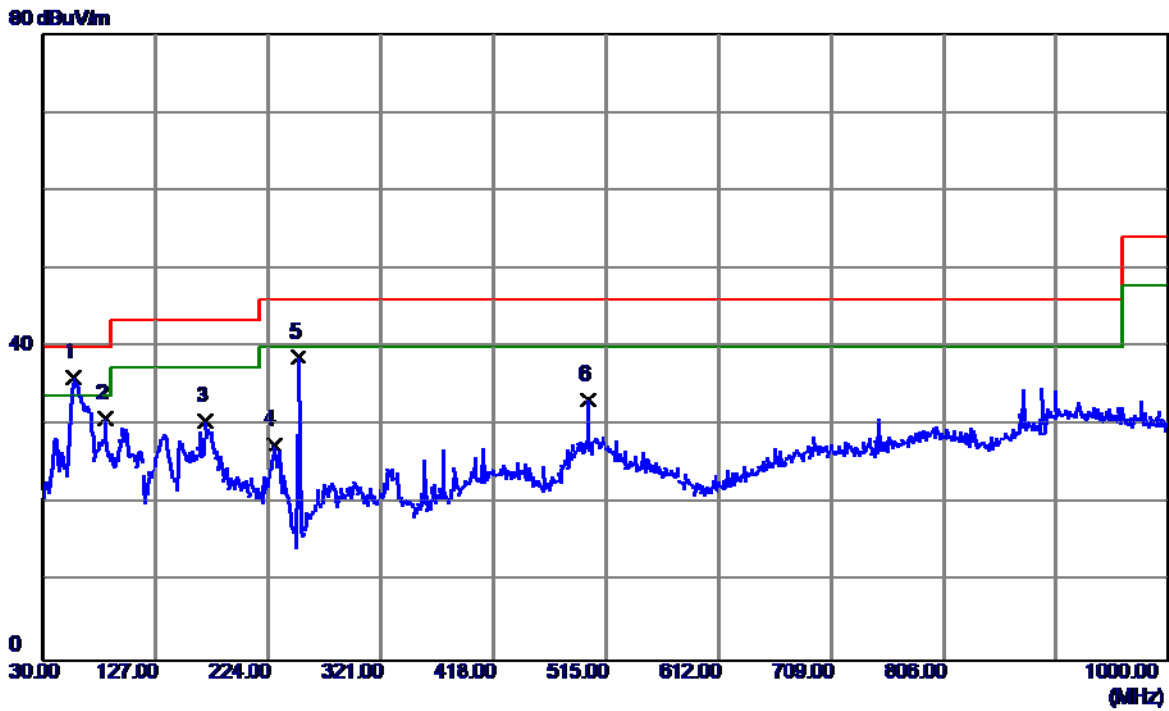
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1 *	56.1900	49.45	-13.31	36.14	40.00	-3.86	QP
2	83.8350	47.97	-17.08	30.89	40.00	-9.11	QP
3	170.1649	42.81	-12.25	30.56	43.50	-12.94	QP
4	228.8500	41.06	-13.47	27.59	46.00	-18.41	QP
5	250.1900	52.98	-14.20	38.78	46.00	-7.22	QP
6	499.9650	42.96	-9.72	33.24	46.00	-12.76	QP

EUT	Wireless LAN Access Point	Model Name	AP6150DN
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	FULL SYSTEM		
Note	Adapter		
Test Engineer	Kevin Li		
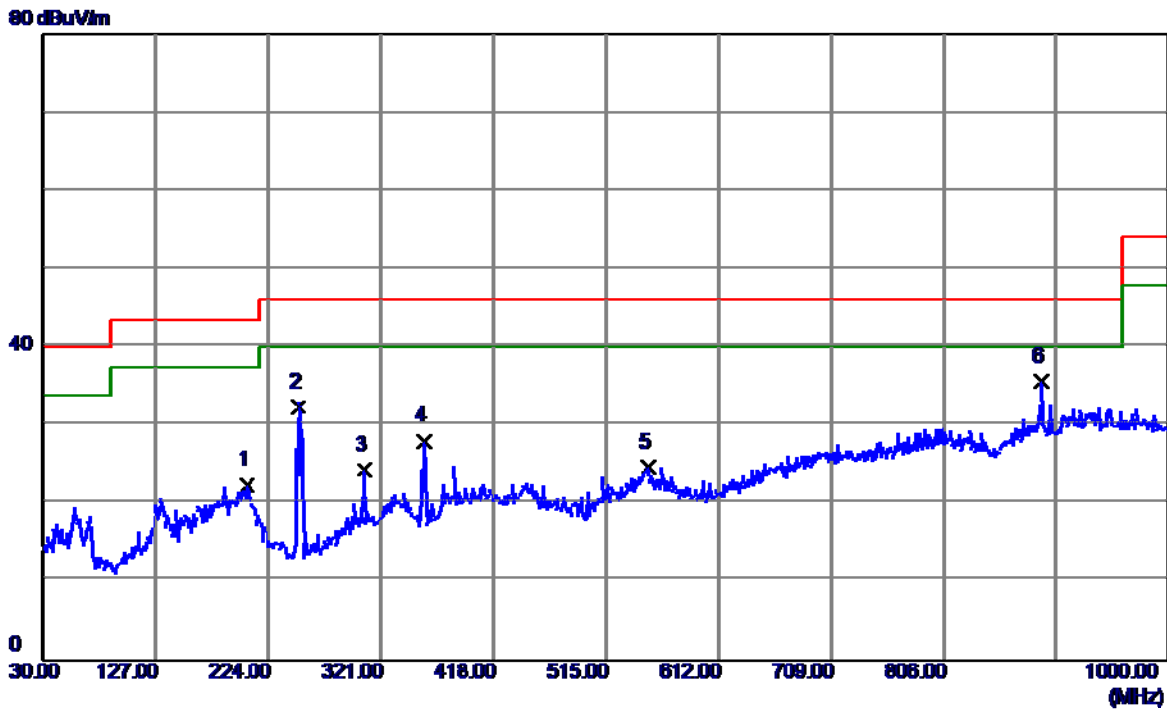
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	205.5700	36.94	-14.55	22.39	43.50	-21.11	QP
2	250.1900	46.58	-14.20	32.38	46.00	-13.62	QP
3	307.4200	34.59	-10.32	24.27	46.00	-21.73	QP
4	358.3450	38.63	-10.65	27.98	46.00	-18.02	QP
5	551.3750	29.19	-4.61	24.58	46.00	-21.42	QP
6 *	890.3900	33.71	1.89	35.60	46.00	-10.40	QP

EUT	Wireless LAN Access Point	Model Name	AP6150DN
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	FULL SYSTEM		
Note	PoE		
Test Engineer	Kevin Li		
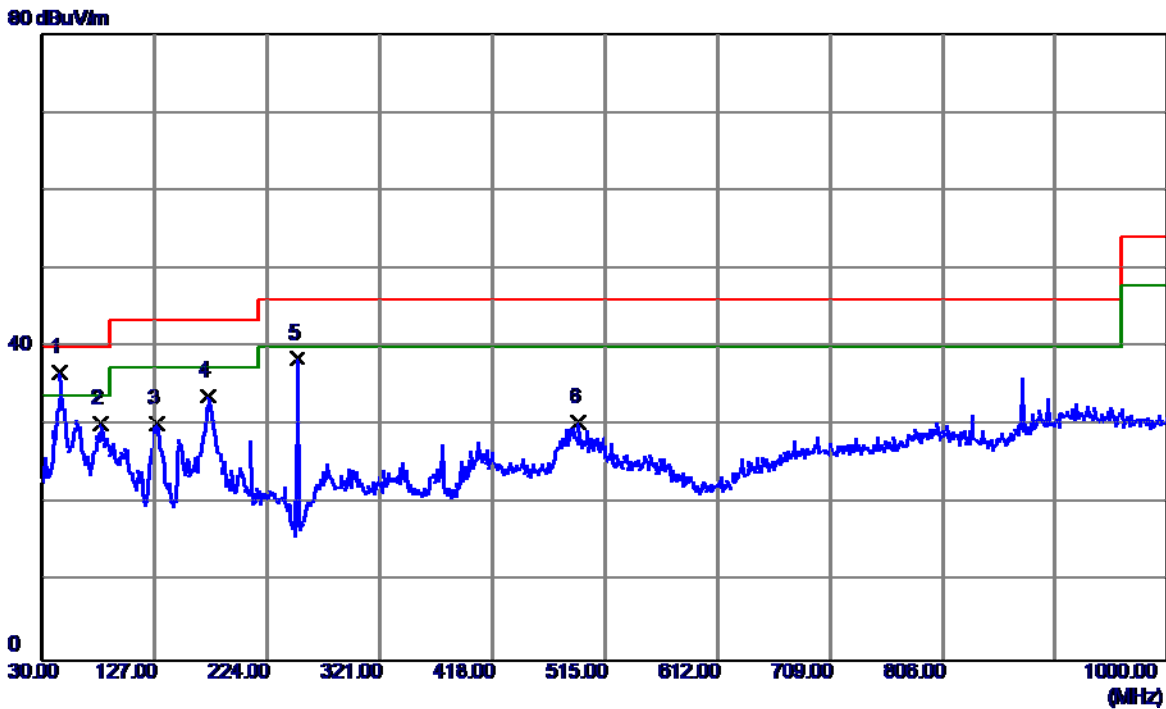
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		Detector
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	45.5200	49.33	-12.60	36.73	40.00	-3.27		QP
2	80.9250	46.49	-16.29	30.20	40.00	-9.80		QP
3	129.4250	42.68	-12.42	30.26	43.50	-13.24		QP
4	173.5600	46.22	-12.45	33.77	43.50	-9.73		QP
5	250.1900	52.77	-14.20	38.57	46.00	-7.43		QP
6	492.6900	39.90	-9.47	30.43	46.00	-15.57		QP

EUT	Wireless LAN Access Point	Model Name	AP6150DN
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	FULL SYSTEM		
Note	PoE		
Test Engineer	Kevin Li		
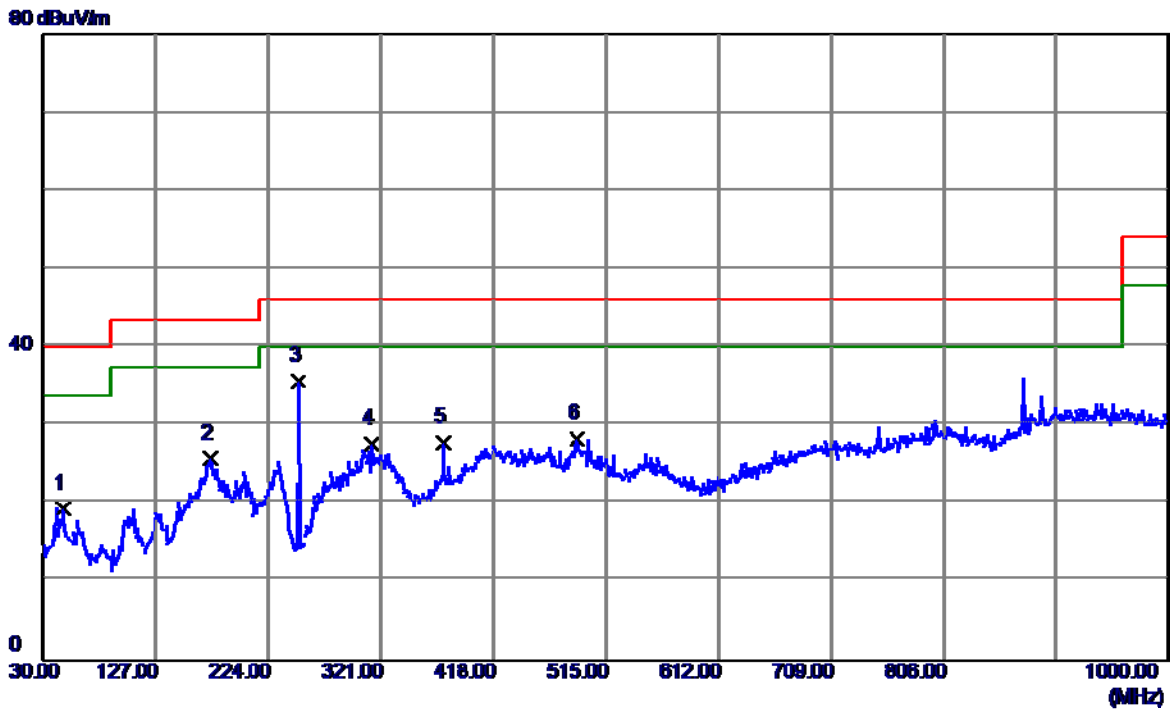
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	46.9750	32.09	-12.73	19.36	40.00	-20.64	QP
2	174.5300	38.25	-12.51	25.74	43.50	-17.76	QP
3 *	250.1900	49.83	-14.20	35.63	46.00	-10.37	QP
4	313.7250	38.17	-10.45	27.72	46.00	-18.28	QP
5	374.8350	37.37	-9.51	27.86	46.00	-18.14	QP
6	489.7800	37.69	-9.37	28.32	46.00	-17.68	QP

4.2.8 TEST RESULTS-ABOVE 1GHZ

Remark：

(1) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotesthat the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.

(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.

(3) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

(4) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

EUT	Wireless LAN Access Point	Model Name	AP6050DN
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	FULL SYSTEM		
Note	Adapter		
Test Engineer	Kevin Li		
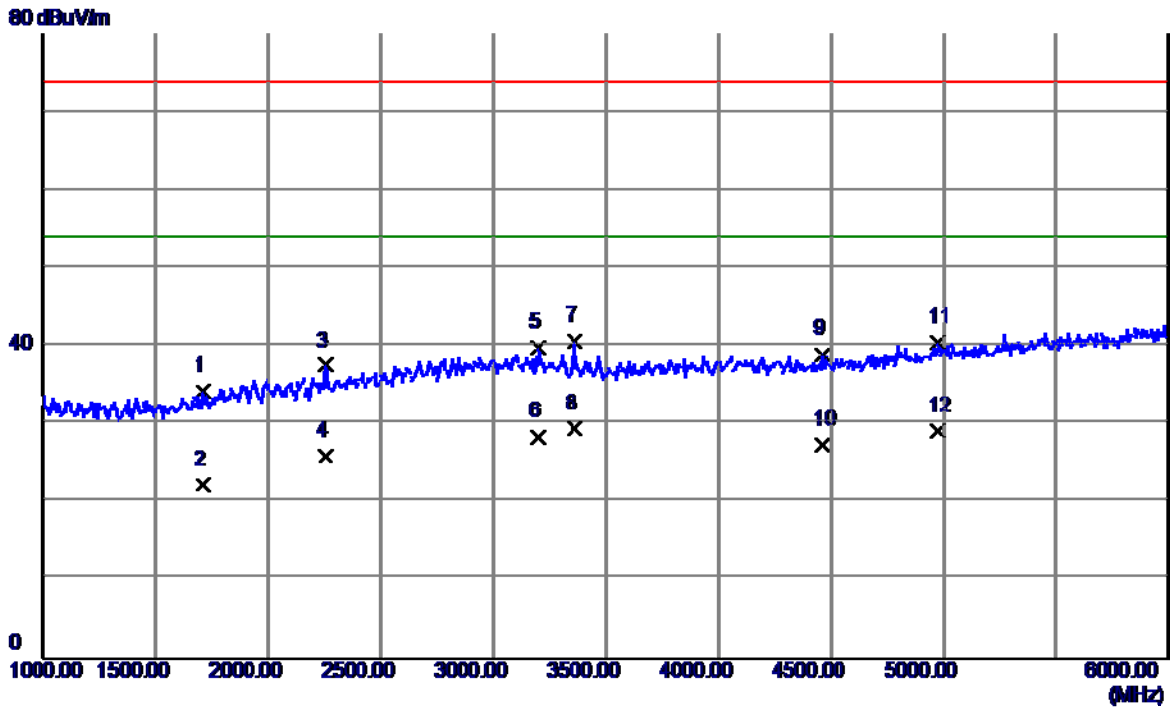
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector
1	1712.5000	39.32	-5.02	34.30	74.00	-39.70	Peak
2	1712.5000	27.32	-5.02	22.30	54.00	-31.70	AVG
3	2257.5000	39.39	-1.87	37.52	74.00	-36.48	Peak
4	2257.5000	27.77	-1.87	25.90	54.00	-28.10	AVG
5	3202.5000	38.43	1.44	39.87	74.00	-34.13	Peak
6	3202.5000	26.96	1.44	28.40	54.00	-25.60	AVG
7	3360.0000	39.23	1.38	40.61	74.00	-33.39	Peak
8 *	3360.0000	28.02	1.38	29.40	54.00	-24.60	AVG
9	4462.5000	35.52	3.44	38.96	74.00	-35.04	Peak
10	4462.5000	23.96	3.44	27.40	54.00	-26.60	AVG
11	4970.0000	35.01	5.47	40.48	74.00	-33.52	Peak
12	4970.0000	23.63	5.47	29.10	54.00	-24.90	AVG

EUT	Wireless LAN Access Point	Model Name	AP6050DN
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	FULL SYSTEM		
Note	Adapter		
Test Engineer	Kevin Li		
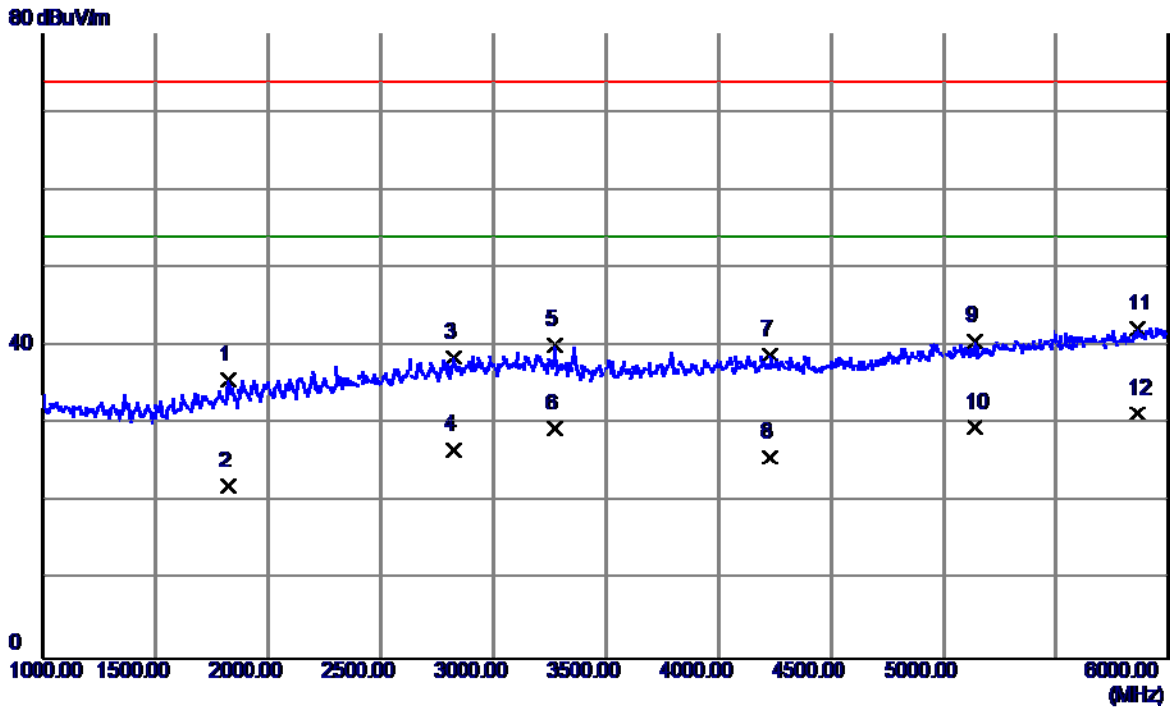
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	1822.5000	39.80	-4.18	35.62	74.00	-38.38	Peak
2	1822.5000	26.28	-4.18	22.10	54.00	-31.90	AVG
3	2822.5000	37.93	0.64	38.57	74.00	-35.43	Peak
4	2822.5000	26.06	0.64	26.70	54.00	-27.30	AVG
5	3270.0000	38.71	1.41	40.12	74.00	-33.88	Peak
6	3270.0000	27.99	1.41	29.40	54.00	-24.60	AVG
7	4230.0000	35.71	3.19	38.90	74.00	-35.10	Peak
8	4230.0000	22.51	3.19	25.70	54.00	-28.30	AVG
9	5140.0000	34.65	6.06	40.71	74.00	-33.29	Peak
10	5140.0000	23.54	6.06	29.60	54.00	-24.40	AVG
11	5860.0000	33.77	8.50	42.27	74.00	-31.73	Peak
12 *	5860.0000	22.80	8.50	31.30	54.00	-22.70	AVG

EUT	Wireless LAN Access Point	Model Name	AP6050DN
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	FULL SYSTEM		
Note	PoE		
Test Engineer	Kevin Li		
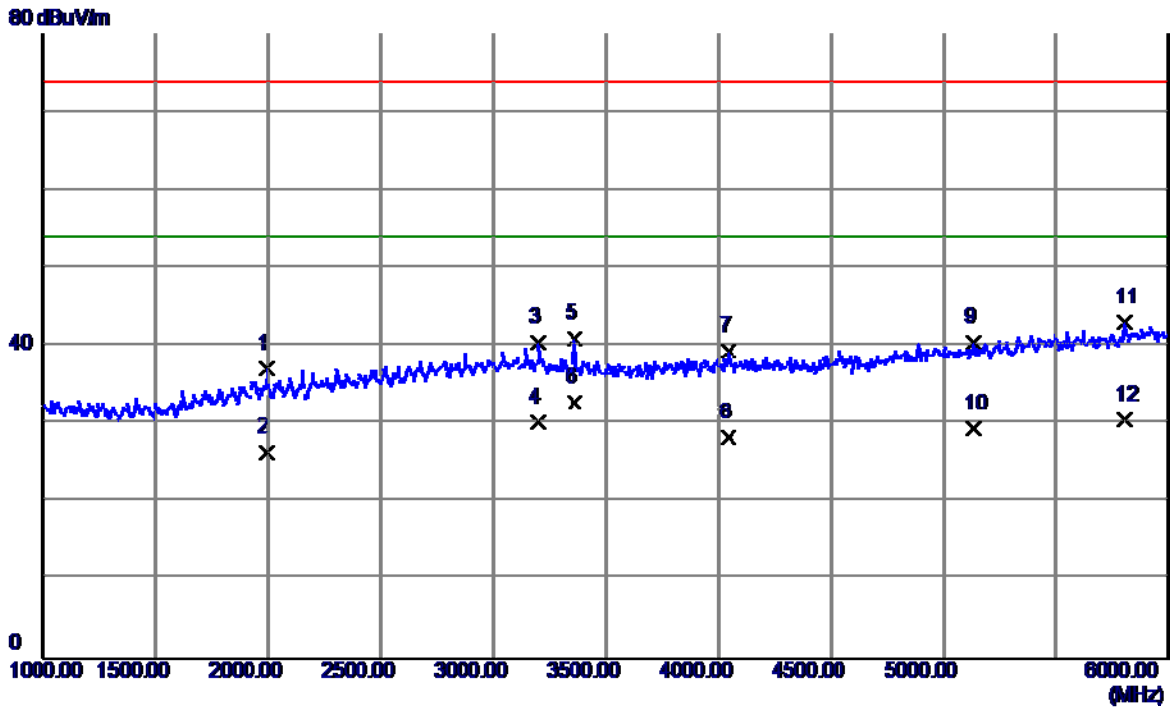
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	1992.5000	40.00	-2.88	37.12	74.00	-36.88	Peak
2	1992.5000	29.28	-2.88	26.40	54.00	-27.60	AVG
3	3202.5000	39.09	1.44	40.53	74.00	-33.47	Peak
4	3202.5000	28.76	1.44	30.20	54.00	-23.80	AVG
5	3360.0000	39.62	1.38	41.00	74.00	-33.00	Peak
6 *	3360.0000	31.42	1.38	32.80	54.00	-21.20	AVG
7	4042.5000	36.32	2.99	39.31	74.00	-34.69	Peak
8	4042.5000	25.31	2.99	28.30	54.00	-25.70	AVG
9	5132.5000	34.45	6.03	40.48	74.00	-33.52	Peak
10	5132.5000	23.37	6.03	29.40	54.00	-24.60	AVG
11	5807.5000	34.71	8.31	43.02	74.00	-30.98	Peak
12	5807.5000	22.19	8.31	30.50	54.00	-23.50	AVG

EUT	Wireless LAN Access Point	Model Name	AP6050DN
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	FULL SYSTEM		
Note	PoE		
Test Engineer	Kevin Li		
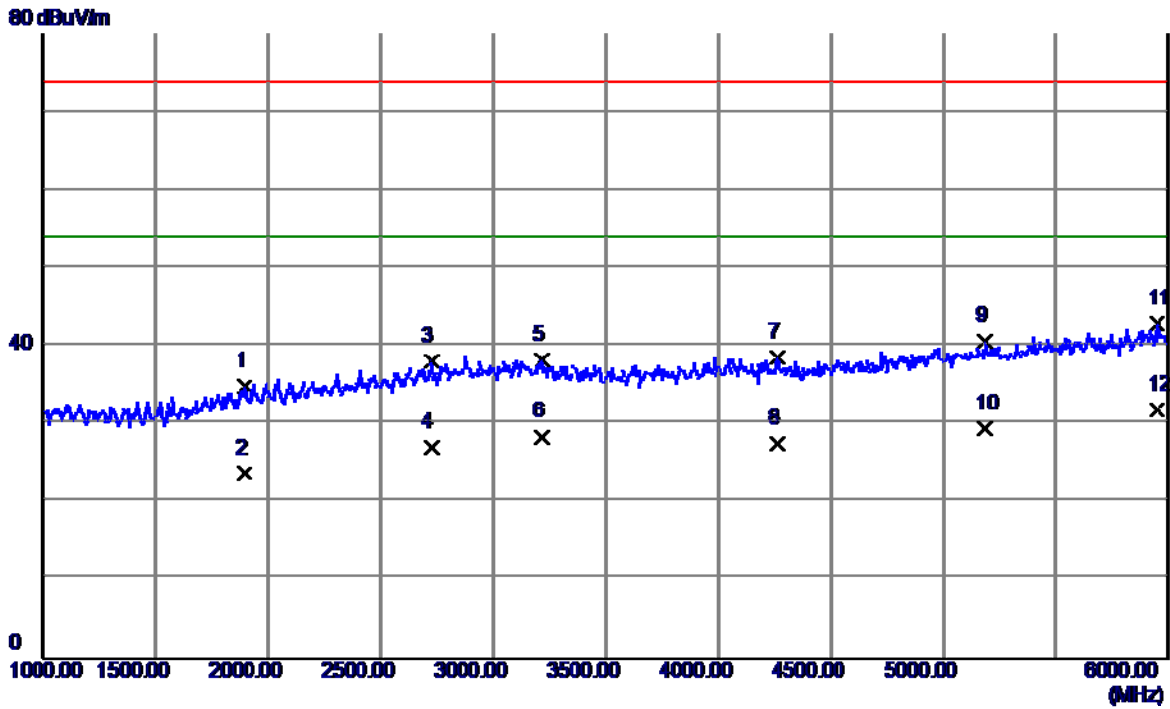
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	1895.0000	38.55	-3.62	34.93	74.00	-39.07	Peak
2	1895.0000	27.32	-3.62	23.70	54.00	-30.30	AVG
3	2725.0000	37.91	0.15	38.06	74.00	-35.94	Peak
4	2725.0000	26.95	0.15	27.10	54.00	-26.90	AVG
5	3217.5000	36.86	1.44	38.30	74.00	-35.70	Peak
6	3217.5000	26.96	1.44	28.40	54.00	-25.60	AVG
7	4260.0000	35.36	3.23	38.59	74.00	-35.41	Peak
8	4260.0000	24.27	3.23	27.50	54.00	-26.50	AVG
9	5185.0000	34.45	6.20	40.65	74.00	-33.35	Peak
10	5185.0000	23.20	6.20	29.40	54.00	-24.60	AVG
11	5952.5000	34.00	8.82	42.82	74.00	-31.18	Peak
12 *	5952.5000	23.08	8.82	31.90	54.00	-22.10	AVG

EUT	Wireless LAN Access Point	Model Name	AP6050DN
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	FULL SYSTEM		
Note	PoE		
Test Engineer	Kevin Li		
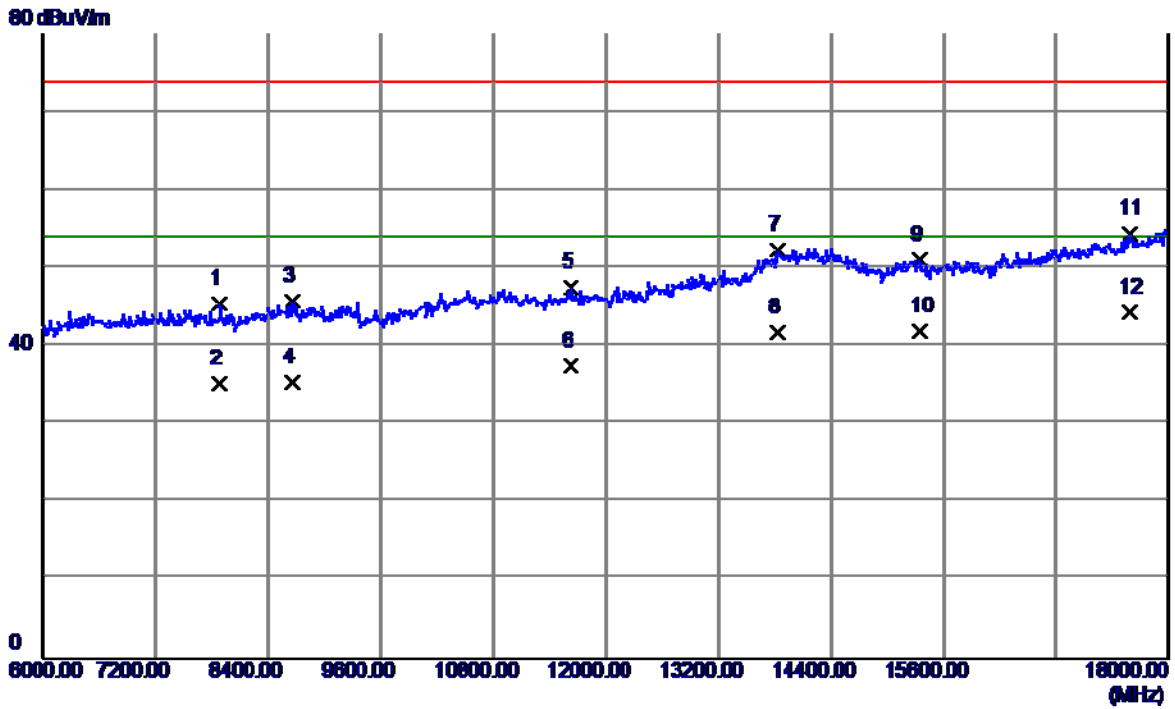
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	7884.0000	33.72	11.73	45.45	74.00	-28.55	Peak
2	7884.0000	23.47	11.73	35.20	54.00	-18.80	AVG
3	8652.0000	32.60	13.12	45.72	74.00	-28.28	Peak
4	8652.0000	22.18	13.12	35.30	54.00	-18.70	AVG
5	11628.0000	31.98	15.48	47.46	74.00	-26.54	Peak
6	11628.0000	21.92	15.48	37.40	54.00	-16.60	AVG
7	13830.0000	31.35	21.03	52.38	74.00	-21.62	Peak
8	13830.0000	20.67	21.03	41.70	54.00	-12.30	AVG
9	15348.0000	33.16	17.90	51.06	74.00	-22.94	Peak
10	15348.0000	24.00	17.90	41.90	54.00	-12.10	AVG
11	17580.0000	32.25	22.15	54.40	74.00	-19.60	Peak
12 *	17580.0000	22.15	22.15	44.30	54.00	-9.70	AVG

EUT	Wireless LAN Access Point	Model Name	AP6050DN
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	FULL SYSTEM		
Note	PoE		
Test Engineer	Kevin Li		

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector
1	6588.0000	34.37	10.88	45.25	74.00	-28.75	Peak
2	6588.0000	24.22	10.88	35.10	54.00	-18.90	AVG
3	8718.0000	32.53	13.17	45.70	74.00	-28.30	Peak
4	8718.0000	22.03	13.17	35.20	54.00	-18.80	AVG
5	10866.0000	31.98	15.76	47.74	74.00	-26.26	Peak
6	10866.0000	21.74	15.76	37.50	54.00	-16.50	AVG
7	14172.0000	31.06	21.36	52.42	74.00	-21.58	Peak
8 *	14172.0000	21.74	21.36	43.10	54.00	-10.90	AVG
9	16728.0000	33.18	19.00	52.18	74.00	-21.82	Peak
10	16728.0000	22.90	19.00	41.90	54.00	-12.10	AVG
11	17220.0000	32.76	21.05	53.81	74.00	-20.19	Peak
12	17220.0000	21.15	21.05	42.20	54.00	-11.80	AVG

EUT	Wireless LAN Access Point	Model Name	AP6050DN
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	FULL SYSTEM		
Note	PoE		
Test Engineer	Kevin Li		
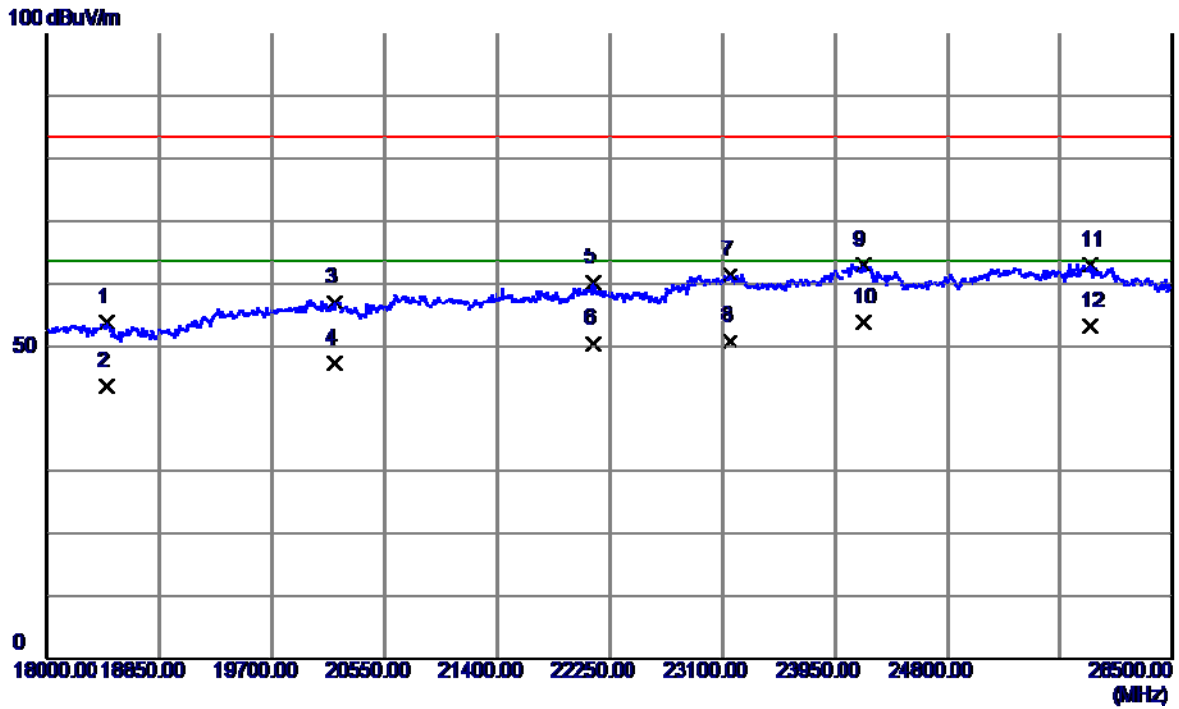
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector
1	18450.5000	37.02	16.81	53.83	83.50	-29.67	Peak
2	18450.5000	26.80	16.81	43.61	63.50	-19.89	AVG
3	20176.0000	41.15	15.91	57.06	83.50	-26.44	Peak
4	20176.0000	31.20	15.91	47.11	63.50	-16.39	AVG
5	22131.0000	41.29	18.87	60.16	83.50	-23.34	Peak
6	22131.0000	31.50	18.87	50.37	63.50	-13.13	AVG
7	23159.5000	41.80	19.65	61.45	83.50	-22.05	Peak
8	23159.5000	31.19	19.65	50.84	63.50	-12.66	AVG
9	24162.5000	43.77	19.27	63.04	83.50	-20.46	Peak
10 *	24162.5000	34.60	19.27	53.87	63.50	-9.63	AVG
11	25879.5000	42.26	20.74	63.00	83.50	-20.50	Peak
12	25879.5000	32.40	20.74	53.14	63.50	-10.36	AVG

EUT	Wireless LAN Access Point	Model Name	AP6050DN
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	FULL SYSTEM		
Note	PoE		
Test Engineer	Kevin Li		
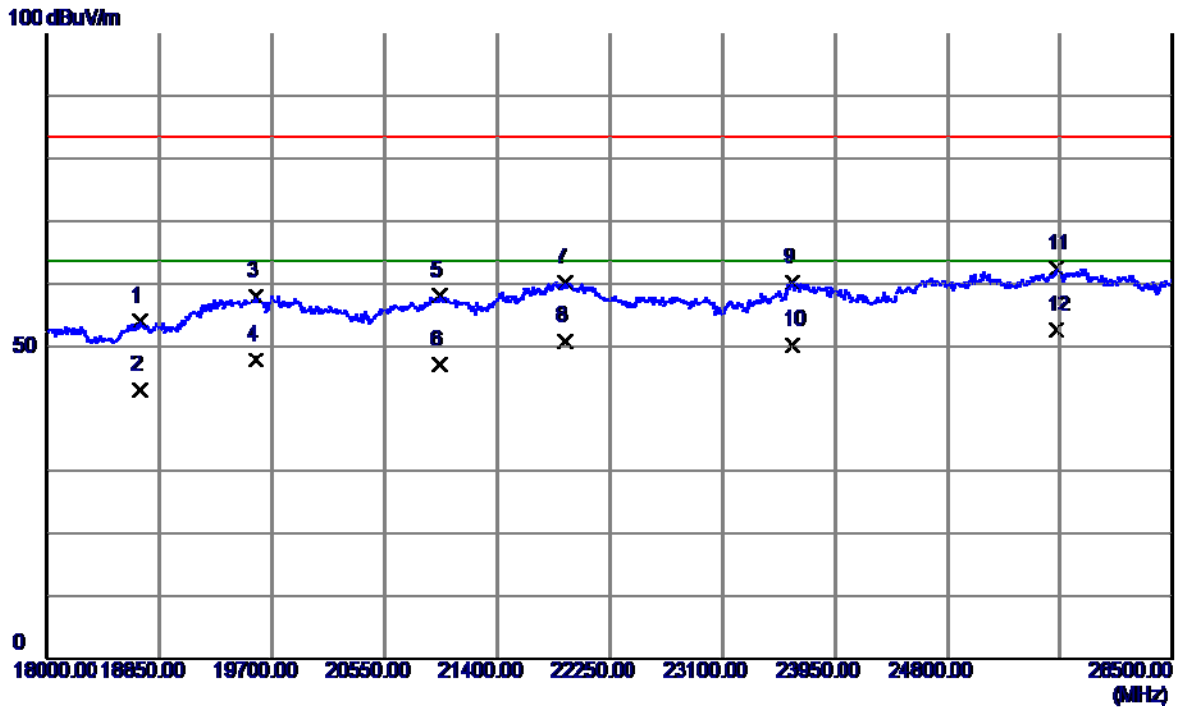
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	18697.0000	37.25	16.69	53.94	83.50	-29.56	Peak
2	18697.0000	26.31	16.69	43.00	63.50	-20.50	AVG
3	19581.0000	41.12	16.81	57.93	83.50	-25.57	Peak
4	19581.0000	31.00	16.81	47.81	63.50	-15.69	AVG
5	20966.5000	40.77	17.33	58.10	83.50	-25.40	Peak
6	20966.5000	29.60	17.33	46.93	63.50	-16.57	AVG
7	21910.0000	41.46	18.73	60.19	83.50	-23.31	Peak
8	21910.0000	32.09	18.73	50.82	63.50	-12.68	AVG
9	23627.0000	40.48	19.80	60.28	83.50	-23.22	Peak
10	23627.0000	30.40	19.80	50.20	63.50	-13.30	AVG
11	25624.5000	41.20	21.15	62.35	83.50	-21.15	Peak
12 *	25624.5000	31.43	21.15	52.58	63.50	-10.92	AVG

EUT	Wireless LAN Access Point	Model Name	AP6050DN
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	FULL SYSTEM		
Note	PoE		
Test Engineer	Kevin Li		
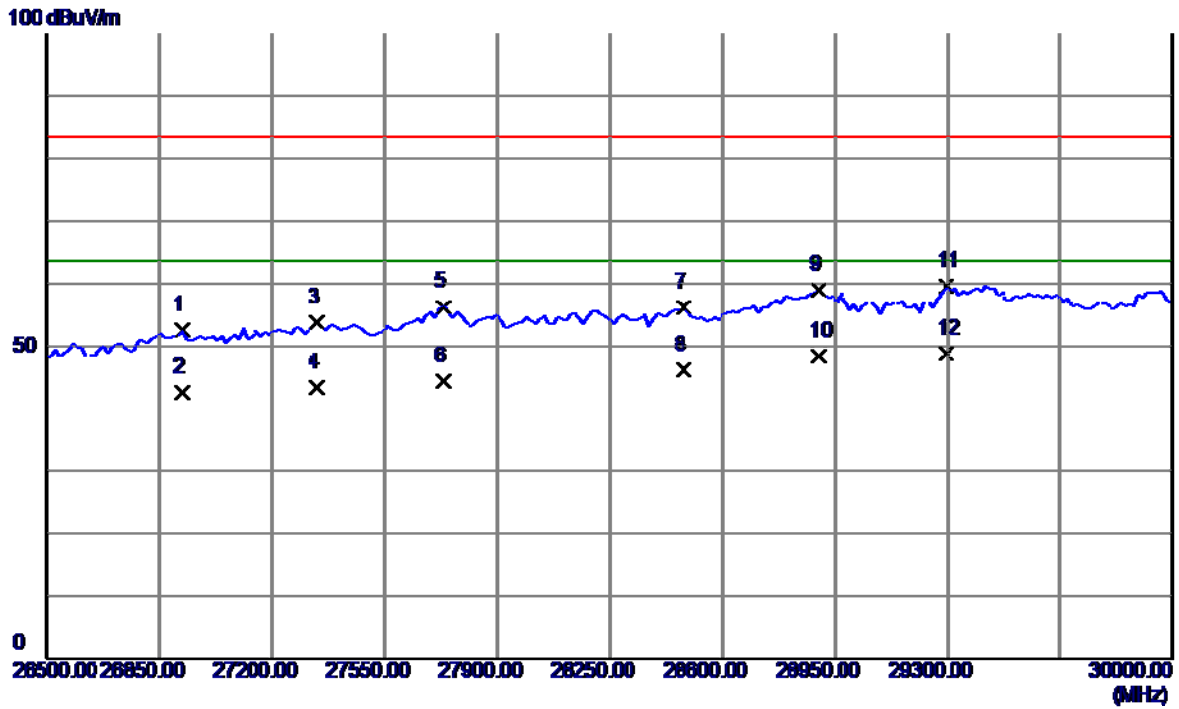
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	26920.5430	48.57	4.07	52.64	83.50	-30.86	Peak
2	26920.5430	38.62	4.07	42.69	63.50	-20.81	AVG
3	27341.0850	50.61	3.10	53.71	83.50	-29.79	Peak
4	27341.0850	40.23	3.10	43.33	63.50	-20.17	AVG
5	27734.4960	52.84	3.46	56.30	83.50	-27.20	Peak
6	27734.4960	41.02	3.46	44.48	63.50	-19.02	AVG
7	28480.6200	51.29	4.91	56.20	83.50	-27.30	Peak
8	28480.6200	41.35	4.91	46.26	63.50	-17.24	AVG
9	28901.1630	53.58	5.42	59.00	83.50	-24.50	Peak
10	28901.1630	42.94	5.42	48.36	63.50	-15.14	AVG
11	29294.5730	53.85	5.79	59.64	83.50	-23.86	Peak
12 *	29294.5730	43.05	5.79	48.84	63.50	-14.66	AVG

EUT	Wireless LAN Access Point	Model Name	AP6050DN
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	FULL SYSTEM		
Note	PoE		
Test Engineer	Kevin Li		
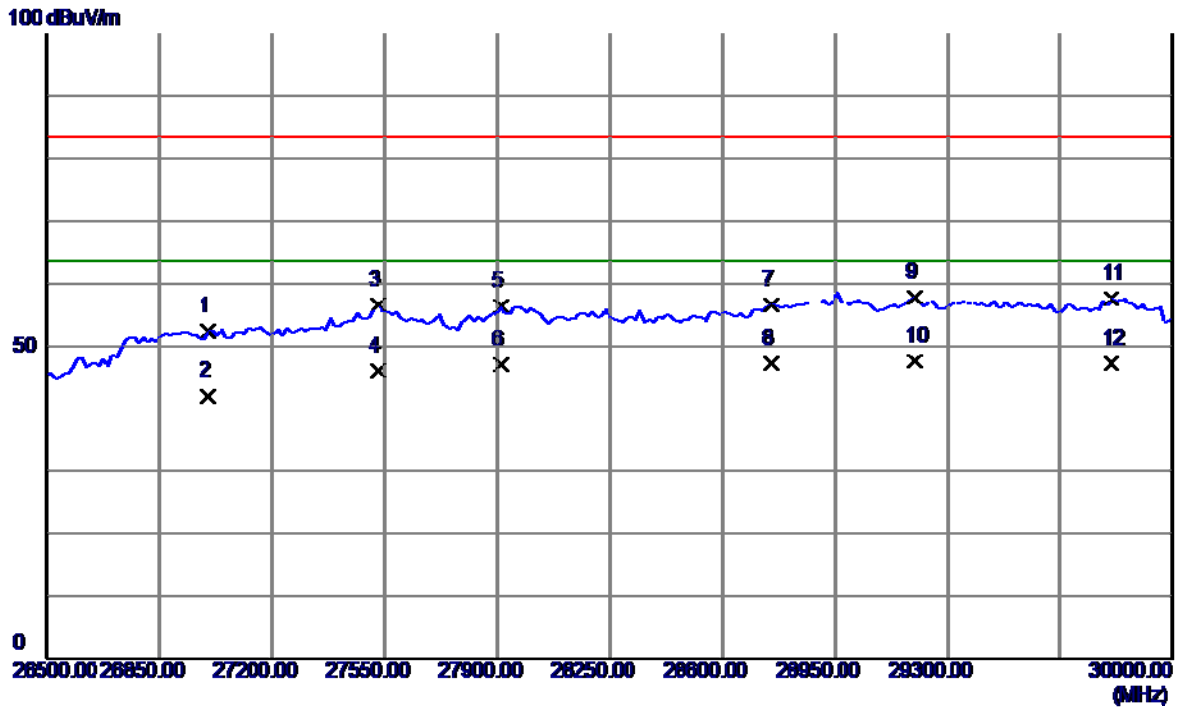
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	27001.9380	48.33	4.12	52.45	83.50	-31.05	Peak
2	27001.9380	37.92	4.12	42.04	63.50	-21.46	AVG
3	27531.0080	53.83	2.73	56.56	83.50	-26.94	Peak
4	27531.0080	43.26	2.73	45.99	63.50	-17.51	AVG
5	27910.8530	52.37	4.09	56.46	83.50	-27.04	Peak
6	27910.8530	42.91	4.09	47.00	63.50	-16.50	AVG
7	28751.9380	51.39	5.24	56.63	83.50	-26.87	Peak
8	28751.9380	42.02	5.24	47.26	63.50	-16.24	AVG
9	29199.6120	52.03	5.71	57.74	83.50	-25.76	Peak
10 *	29199.6120	41.90	5.71	47.61	63.50	-15.89	AVG
11	29810.0770	50.69	6.97	57.66	83.50	-25.84	Peak
12	29810.0770	40.22	6.97	47.19	63.50	-16.31	AVG

EUT	Wireless LAN Access Point	Model Name	AP6150DN
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	FULL SYSTEM		
Note	Adapter		
Test Engineer	Kevin Li		
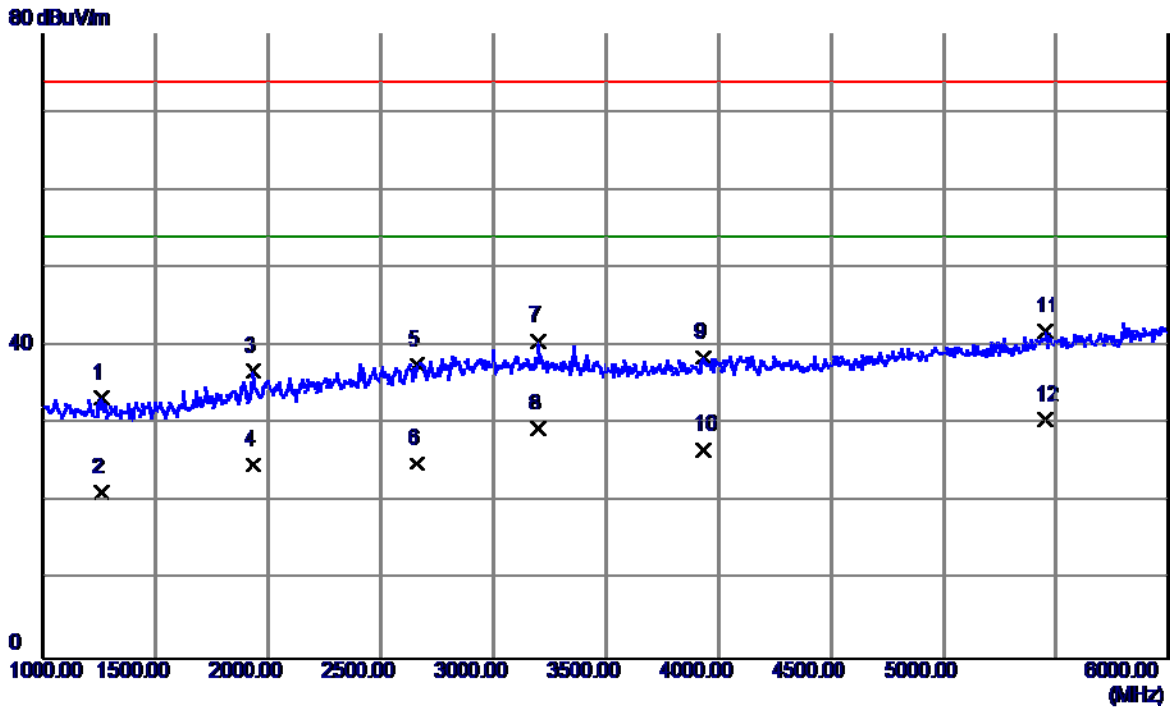
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	1262.5000	40.62	-7.26	33.36	74.00	-40.64	Peak
2	1262.5000	28.56	-7.26	21.30	54.00	-32.70	AVG
3	1932.5000	40.11	-3.34	36.77	74.00	-37.23	Peak
4	1932.5000	28.14	-3.34	24.80	54.00	-29.20	AVG
5	2662.5000	37.83	-0.16	37.67	74.00	-36.33	Peak
6	2662.5000	25.19	-0.16	25.03	54.00	-28.97	AVG
7	3202.5000	39.20	1.44	40.64	74.00	-33.36	Peak
8	3202.5000	28.06	1.44	29.50	54.00	-24.50	AVG
9	3932.5000	35.80	2.73	38.53	74.00	-35.47	Peak
10	3932.5000	24.05	2.73	26.78	54.00	-27.22	AVG
11	5452.5000	34.82	7.08	41.90	74.00	-32.10	Peak
12 *	5452.5000	23.54	7.08	30.62	54.00	-23.38	AVG

EUT	Wireless LAN Access Point	Model Name	AP6150DN
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	FULL SYSTEM		
Note	Adapter		
Test Engineer	Kevin Li		
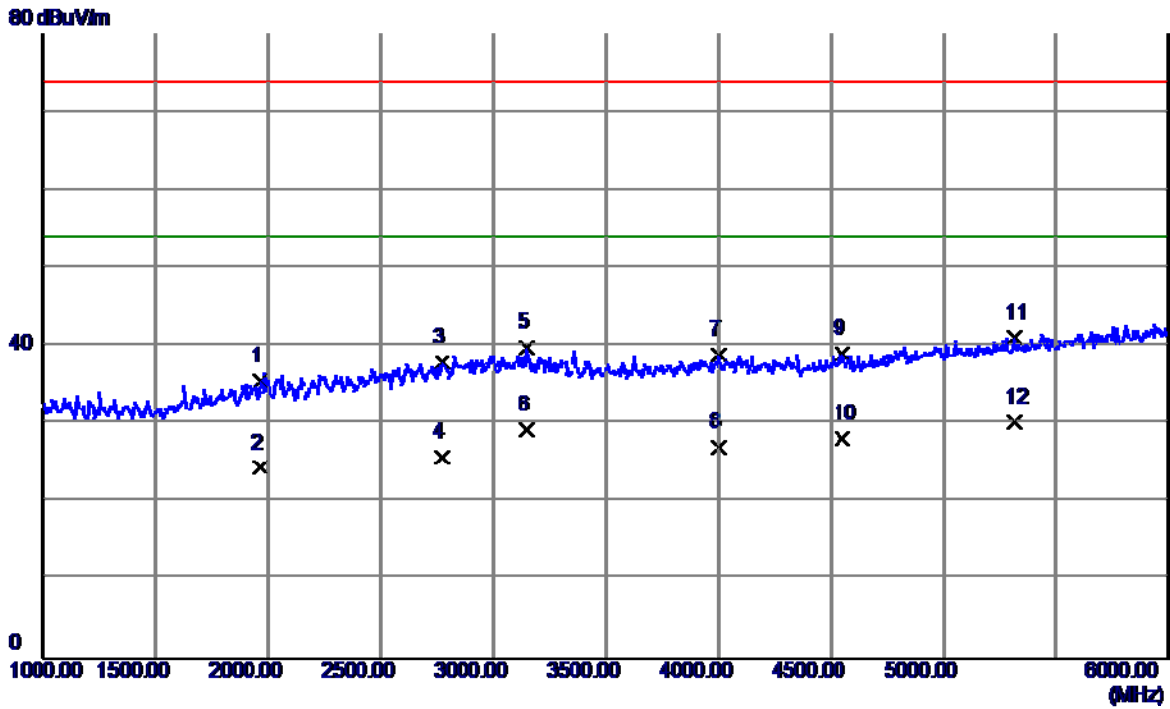
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector
1	1967.5000	38.61	-3.07	35.54	74.00	-38.46	Peak
2	1967.5000	27.47	-3.07	24.40	54.00	-29.60	AVG
3	2770.0000	37.55	0.38	37.93	74.00	-36.07	Peak
4	2770.0000	25.42	0.38	25.80	54.00	-28.20	AVG
5	3152.5000	38.35	1.46	39.81	74.00	-34.19	Peak
6	3152.5000	27.84	1.46	29.30	54.00	-24.70	AVG
7	4000.0000	35.95	2.95	38.90	74.00	-35.10	Peak
8	4000.0000	24.15	2.95	27.10	54.00	-26.90	AVG
9	4552.5000	35.36	3.70	39.06	74.00	-34.94	Peak
10	4552.5000	24.40	3.70	28.10	54.00	-25.90	AVG
11	5317.5000	34.41	6.63	41.04	74.00	-32.96	Peak
12 *	5317.5000	23.57	6.63	30.20	54.00	-23.80	AVG

EUT	Wireless LAN Access Point	Model Name	AP6150DN
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	FULL SYSTEM		
Note	PoE		
Test Engineer	Kevin Li		
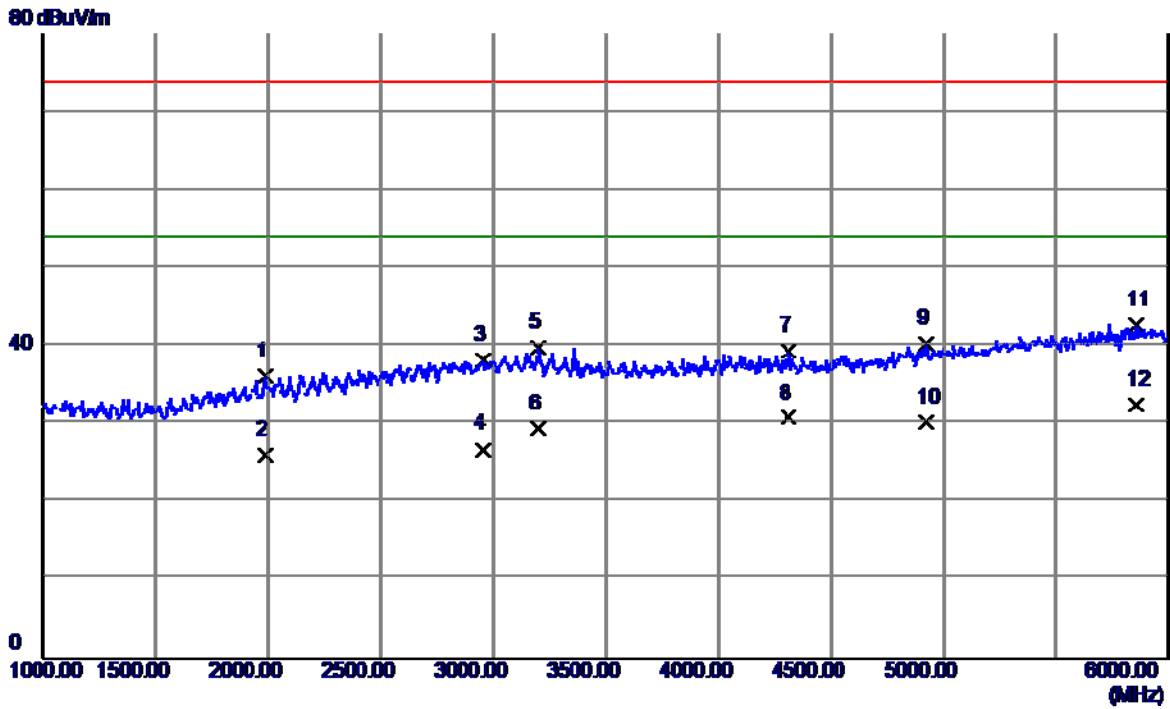
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector
1	1990.0000	39.12	−2.90	36.22	74.00	−37.78	Peak
2	1990.0000	29.00	−2.90	26.10	54.00	−27.90	AVG
3	2957.5000	36.99	1.32	38.31	74.00	−35.69	Peak
4	2957.5000	25.48	1.32	26.80	54.00	−27.20	AVG
5	3202.5000	38.46	1.44	39.90	74.00	−34.10	Peak
6	3202.5000	27.96	1.44	29.40	54.00	−24.60	AVG
7	4310.0000	36.01	3.28	39.29	74.00	−34.71	Peak
8	4310.0000	27.52	3.28	30.80	54.00	−23.20	AVG
9	4920.0000	35.00	5.26	40.26	74.00	−33.74	Peak
10	4920.0000	24.94	5.26	30.20	54.00	−23.80	AVG
11	5855.0000	34.20	8.48	42.68	74.00	−31.32	Peak
12 *	5855.0000	24.02	8.48	32.50	54.00	−21.50	AVG

EUT	Wireless LAN Access Point	Model Name	AP6150DN
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	FULL SYSTEM		
Note	PoE		
Test Engineer	Kevin Li		
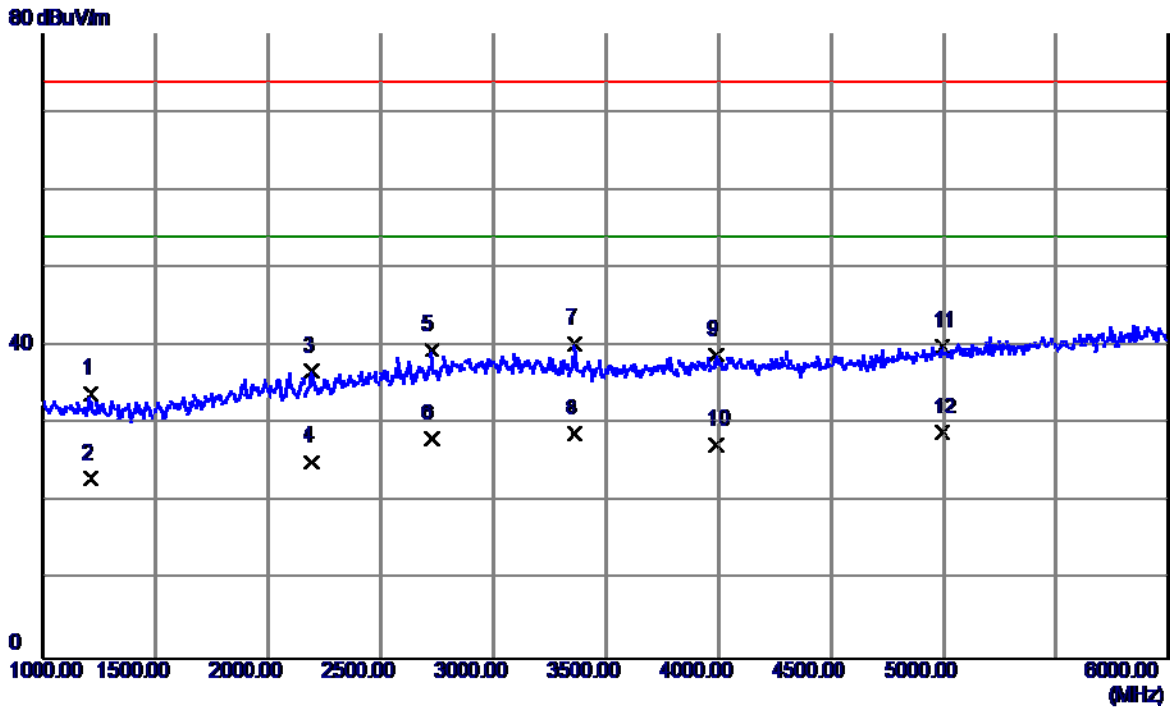
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	1210.0000	41.37	-7.39	33.98	74.00	-40.02	Peak
2	1210.0000	30.49	-7.39	23.10	54.00	-30.90	AVG
3	2195.0000	38.94	-2.10	36.84	74.00	-37.16	Peak
4	2195.0000	27.30	-2.10	25.20	54.00	-28.80	AVG
5	2725.0000	39.32	0.15	39.47	74.00	-34.53	Peak
6	2725.0000	28.05	0.15	28.20	54.00	-25.80	AVG
7	3360.0000	38.99	1.38	40.37	74.00	-33.63	Peak
8	3360.0000	27.42	1.38	28.80	54.00	-25.20	AVG
9	3990.0000	35.98	2.92	38.90	74.00	-35.10	Peak
10	3990.0000	24.48	2.92	27.40	54.00	-26.60	AVG
11	4995.0000	34.45	5.58	40.03	74.00	-33.97	Peak
12 *	4995.0000	23.32	5.58	28.90	54.00	-25.10	AVG

EUT	Wireless LAN Access Point	Model Name	AP6150DN
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	FULL SYSTEM		
Note	PoE		
Test Engineer	Kevin Li		
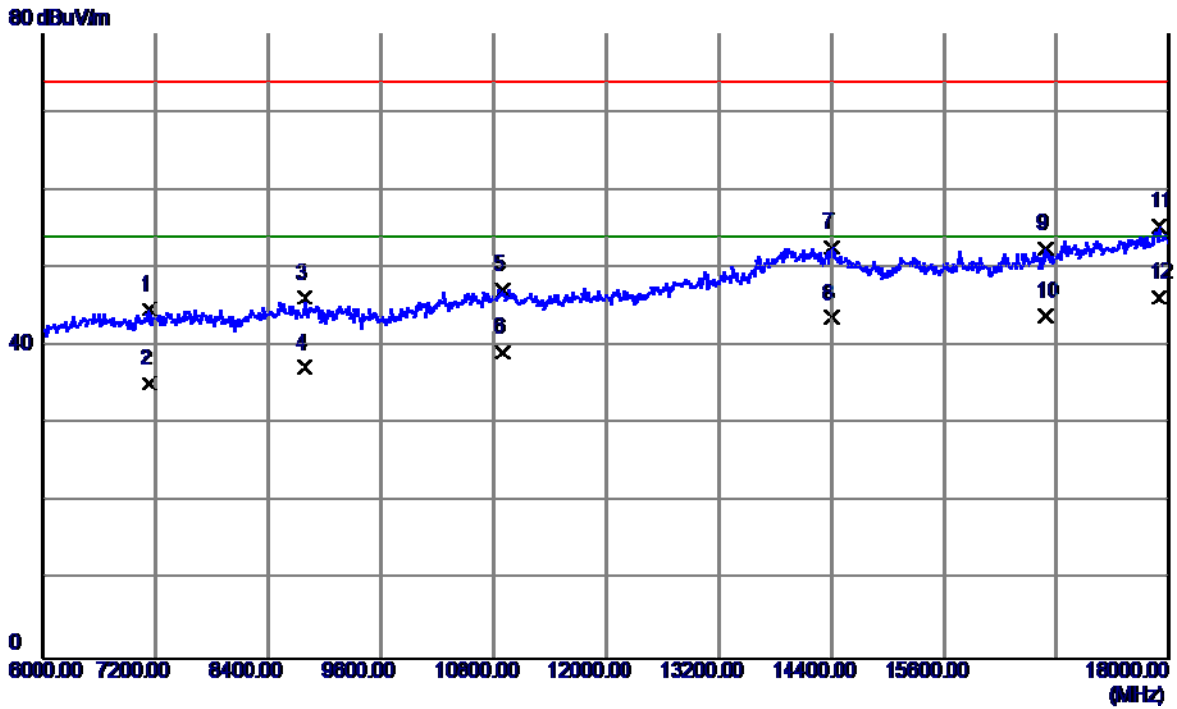
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector
1	7128.0000	33.66	11.01	44.67	74.00	-29.33	Peak
2	7128.0000	24.19	11.01	35.20	54.00	-18.80	AVG
3	8790.0000	32.94	13.22	46.16	74.00	-27.84	Peak
4	8790.0000	23.98	13.22	37.20	54.00	-16.80	AVG
5	10890.0000	31.44	15.79	47.23	74.00	-26.77	Peak
6	10890.0000	23.41	15.79	39.20	54.00	-14.80	AVG
7	14406.0000	31.87	20.72	52.59	74.00	-21.41	Peak
8	14406.0000	22.88	20.72	43.60	54.00	-10.40	AVG
9	16680.0000	33.70	18.78	52.48	74.00	-21.52	Peak
10	16680.0000	25.02	18.78	43.80	54.00	-10.20	AVG
11	17898.0000	32.82	22.57	55.39	74.00	-18.61	Peak
12 *	17898.0000	23.73	22.57	46.30	54.00	-7.70	AVG

EUT	Wireless LAN Access Point	Model Name	AP6150DN
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	FULL SYSTEM		
Note	PoE		
Test Engineer	Kevin Li		
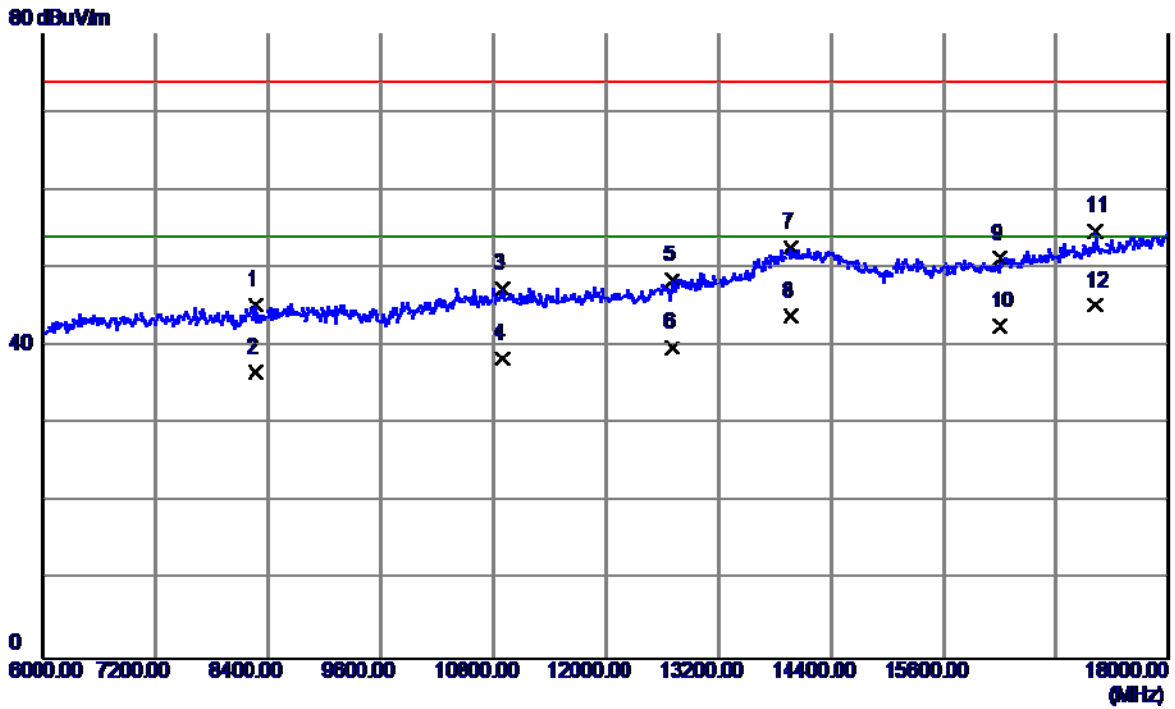
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	
1	8262.0000	32.90	12.39	45.29	74.00	-28.71	Peak
2	8262.0000	24.31	12.39	36.70	54.00	-17.30	AVG
3	10890.0000	31.64	15.79	47.43	74.00	-26.57	Peak
4	10890.0000	22.61	15.79	38.40	54.00	-15.60	AVG
5	12702.0000	31.29	17.14	48.43	74.00	-25.57	Peak
6	12702.0000	22.66	17.14	39.80	54.00	-14.20	AVG
7	13974.0000	30.91	21.71	52.62	74.00	-21.38	Peak
8	13974.0000	22.19	21.71	43.90	54.00	-10.10	AVG
9	16206.0000	33.29	17.89	51.18	74.00	-22.82	Peak
10	16206.0000	24.71	17.89	42.60	54.00	-11.40	AVG
11	17214.0000	33.77	21.03	54.80	74.00	-19.20	Peak
12 *	17214.0000	24.17	21.03	45.20	54.00	-8.80	AVG

EUT	Wireless LAN Access Point	Model Name	AP6150DN
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	FULL SYSTEM		
Note	PoE		
Test Engineer	Kevin Li		
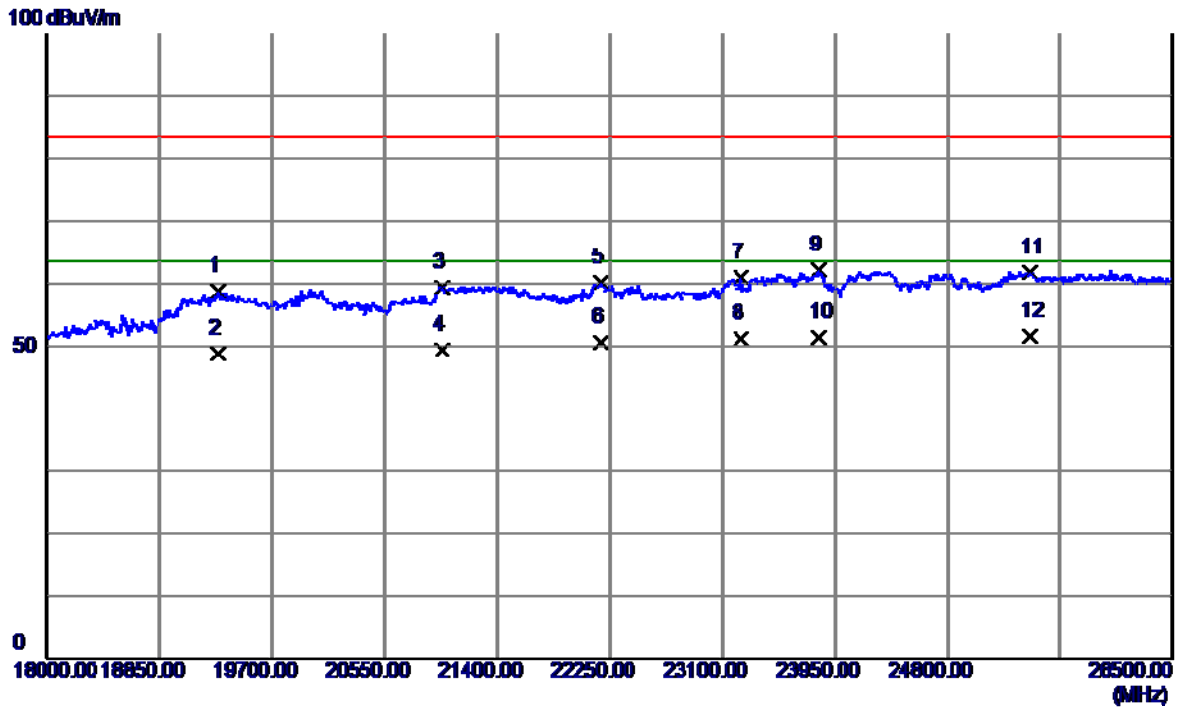
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector
1	19292.0000	41.92	16.82	58.74	83.50	-24.76	Peak
2	19292.0000	32.02	16.82	48.84	63.50	-14.66	AVG
3	20983.5000	42.09	17.38	59.47	83.50	-24.03	Peak
4	20983.5000	32.05	17.38	49.43	63.50	-14.07	AVG
5	22182.0000	41.26	18.92	60.18	83.50	-23.32	Peak
6	22182.0000	31.62	18.92	50.54	63.50	-12.96	AVG
7	23244.5000	41.26	19.75	61.01	83.50	-22.49	Peak
8	23244.5000	31.52	19.75	51.27	63.50	-12.23	AVG
9	23831.0000	42.85	19.37	62.22	83.50	-21.28	Peak
10	23831.0000	32.05	19.37	51.42	63.50	-12.08	AVG
11	25420.5000	40.50	21.38	61.88	83.50	-21.62	Peak
12 *	25420.5000	30.24	21.38	51.62	63.50	-11.88	AVG

EUT	Wireless LAN Access Point	Model Name	AP6150DN
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	FULL SYSTEM		
Note	PoE		
Test Engineer	Kevin Li		
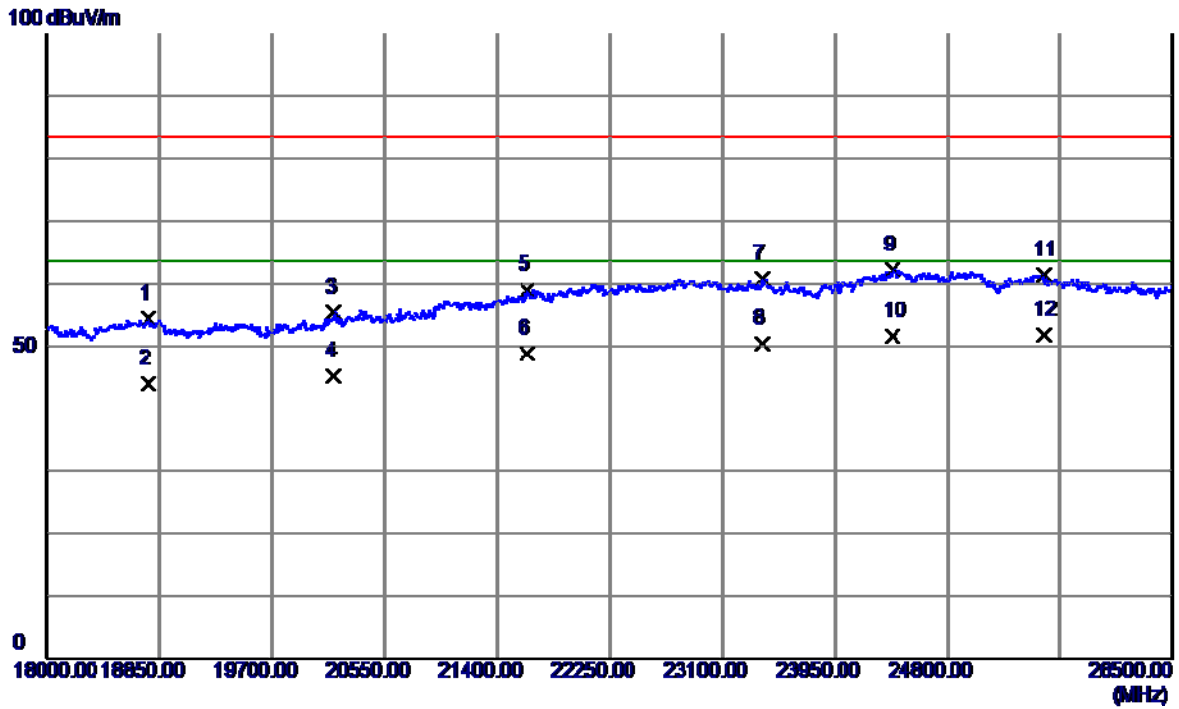
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	18765.0000	37.76	16.67	54.43	83.50	-29.07	Peak
2	18765.0000	27.31	16.67	43.98	63.50	-19.52	AVG
3	20167.5000	39.44	15.91	55.35	83.50	-28.15	Peak
4	20167.5000	29.29	15.91	45.20	63.50	-18.30	AVG
5	21629.5000	40.45	18.63	59.08	83.50	-24.42	Peak
6	21629.5000	30.23	18.63	48.86	63.50	-14.64	AVG
7	23406.0000	40.90	19.95	60.85	83.50	-22.65	Peak
8	23406.0000	30.42	19.95	50.37	63.50	-13.13	AVG
9	24383.5000	42.52	19.64	62.16	83.50	-21.34	Peak
10	24383.5000	32.02	19.64	51.66	63.50	-11.84	AVG
11	25522.5000	40.16	21.32	61.48	83.50	-22.02	Peak
12 *	25522.5000	30.45	21.32	51.77	63.50	-11.73	AVG

EUT	Wireless LAN Access Point	Model Name	AP6150DN
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	FULL SYSTEM		
Note	PoE		
Test Engineer	Kevin Li		
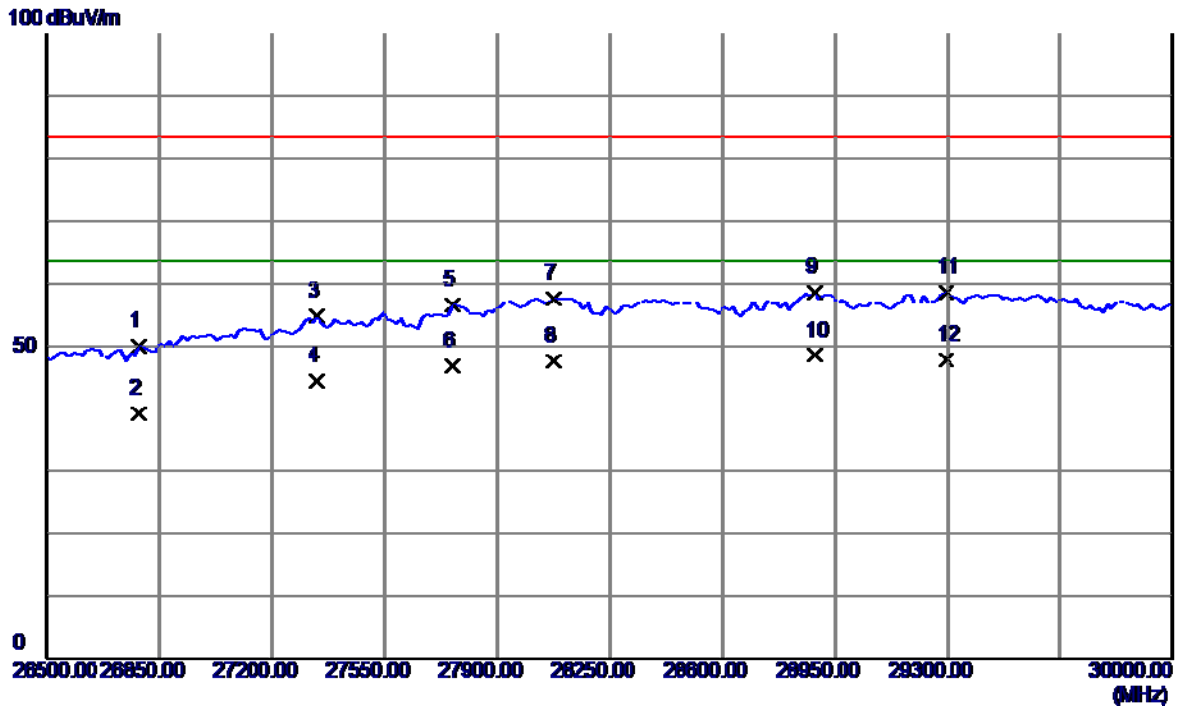
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	26784.8840	45.95	3.96	49.91	83.50	-33.59	Peak
2	26784.8840	35.26	3.96	39.22	63.50	-24.28	AVG
3	27341.0850	51.61	3.10	54.71	83.50	-28.79	Peak
4	27341.0850	41.23	3.10	44.33	63.50	-19.17	AVG
5	27761.6280	53.07	3.56	56.63	83.50	-26.87	Peak
6	27761.6280	43.20	3.56	46.76	63.50	-16.74	AVG
7	28073.6430	53.13	4.49	57.62	83.50	-25.88	Peak
8	28073.6430	43.04	4.49	47.53	63.50	-15.97	AVG
9	28887.5970	53.16	5.41	58.57	83.50	-24.93	Peak
10 *	28887.5970	43.09	5.41	48.50	63.50	-15.00	AVG
11	29294.5730	52.85	5.79	58.64	83.50	-24.86	Peak
12	29294.5730	42.09	5.79	47.88	63.50	-15.62	AVG

EUT	Wireless LAN Access Point	Model Name	AP6150DN
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	FULL SYSTEM		
Note	PoE		
Test Engineer	Kevin Li		
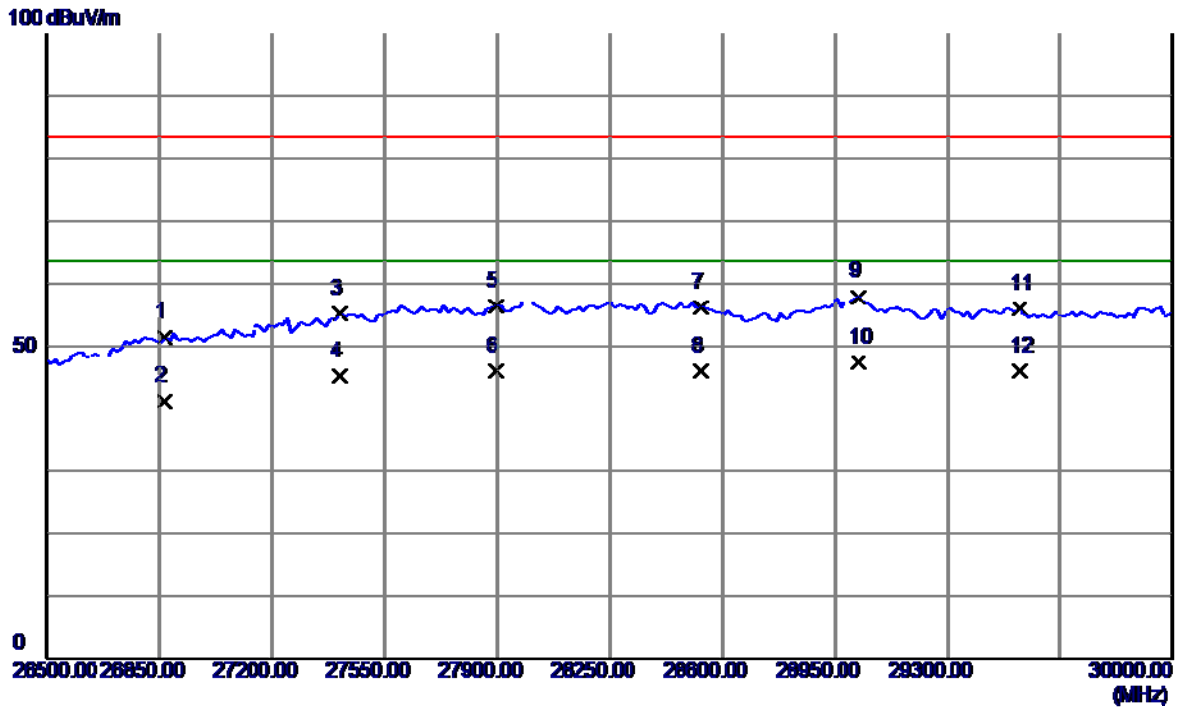
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	
1	26866.2790	47.45	4.03	51.48	83.50	-32.02	Peak
2	26866.2790	37.26	4.03	41.29	63.50	-22.21	AVG
3	27408.9150	52.31	2.89	55.20	83.50	-28.30	Peak
4	27408.9150	42.31	2.89	45.20	63.50	-18.30	AVG
5	27897.2870	52.44	4.04	56.48	83.50	-27.02	Peak
6	27897.2870	41.99	4.04	46.03	63.50	-17.47	AVG
7	28534.8840	51.15	4.97	56.12	83.50	-27.38	Peak
8	28534.8840	41.00	4.97	45.97	63.50	-17.53	AVG
9	29023.2560	52.34	5.56	57.90	83.50	-25.60	Peak
10 *	29023.2560	41.91	5.56	47.47	63.50	-16.03	AVG
11	29525.1940	49.94	6.04	55.98	83.50	-27.52	Peak
12	29525.1940	40.03	6.04	46.07	63.50	-17.43	AVG