Test report No:
2410570R-RF-US-P09V01

FCC TEST REPORT

Product Name	POS Station
Trademark	peppr
Model and /or type reference	MTPOS-S4G Pro
FCC ID	2AYT5-S4GPRO
Applicant´s name / address	Hefei BOE Vision-electronic Technology Co.,Ltd. NO.2177 Dongfang RD, Xinzhan General Pilot Zone, HeFei, Anhui, 230012, P.R.China
Test method requested, standard	47 CFR FCC Part 15 (Section 15.407) ANSI C63.10: 2013
Verdict Summary	IN COMPLIANCE
Tested By (name / position & signature)	Tim Cao/Project Engineer Tim.Cao
Approved by (name / position & signature)	Jack Zhang/ Manager Jack Zhang
Date of issue	2024-02-21
Report Version	V1.1
Report template No	Template_FCC Part15E-RF-V1.0

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COMPETENCES AND GUARANTEES

DEKRA is a testing laboratory competent to carry out the tests described in this report.
In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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GENERAL CONDITIONS

Test Location	No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China
Date(receive sample)	Jan. 18, 2024
Date (start test)	Feb. 01, 2024
Date (finish test)	Feb. 06, 2024

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
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ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

Ambient temperature	15 °C – 35 °C
Relative Humidity air	30% - 60%

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

POSSIBLE TEST CASE VERDICTS

Test case does not apply to test object	N/A
Test object does meet requirement	P (Pass) / PASS
Test object does not meet requirement	F (Fail) / FAIL
Not measured	N/M

ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

EUT : Equipment Under Test
QP : Quasi-Peak
CAV : CISPR Average
AV : Average
CDN : Coupling Decoupling Network
SAC : Semi-Anechoic Chamber
OATS : Open Area Test Site
BW : Bandwidth
AM : Amplitude Modulation
PM : Pulse Modulation
HCP : Horizontal Coupling Plane
VCP : Vertical Coupling Plane
U_N : Nominal voltage
*T*x : Transmitter
*R*x : Receiver
N/A : Not Applicable
N/M : Not Measured

DOCUMENT HISTORY

Report No.	Version	Description	Issued Date
2410570R-RF-US-P09V01	V1.0	Initial issue of report.	2024-02-19
2410570R-RF-US-P09V01	V1.1	Modify the Antenna Gain in Section 1.2; (Test Report No.: 2410570R-RF-US-P09V01 V1.1 will replace Test Report No.: 2410570R-RF-US-P09V01 V1.0, and Test Report 2410570R-RF-US-P09V01 V1.0 has been discontinued.)	2024-02-21

REMARKS AND COMMENTS

1. The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with 47 CFR FCC Part 15 (Section 15.407).
3. The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to account the uncertainty associated with the measurement result.
4. The test results presented in this report relate only to the object tested.
5. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification (Suzhou) Co., Ltd.
6. This report will not be used for social proof function in China market.
7. DEKRA declines any responsibility with the following test data provided by customer that may affect the validity of result:

   - Chapter 1.1 General Description of the Item(s);
   - Chapter 1.2 Antenna Informaion;
   - Chapter 1.3 Channel List;
   - Chapter 1.4 Data Rate;

USED EQUIPMENT

Conducted Test / TR8

Instrument	Manufacturer	Model No.	Serial No.	Cal.Date	Next Cal. Date	Firmware Version	Software Version
Wireless Connectivity Tester	R&S	CMW 270	102593	2023.05.20	2024.05.19	V 4.0.60	N/A
Coaxial Cable	N/A	N/A	2477	2023.06.08	2024.06.07	N/A	N/A
Coaxial Cable	N/A	N/A	2478	2023.06.08	2024.06.07	N/A	N/A
High and low temperature and fast temperature change test box	ASTUOD	ASTD-FBT-225K	N/A	2023.05.20	2024.05.19	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	RF08	2023.08.25	2024.08.24	N/A	N/A
Test system							
MAX Signal Analyzer	Keysight	N9010A	MY48030494	2023.11.08	2024.11.07	A.14.03	N/A
RF Control Unit	Tonscend	JS0806-1	168060022	2023.08.28	2024.08.27	N/A	N/A
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY61252529	2023.05.20	2024.05.19	B.01.96	N/A
Frequency extender for EXG or MXG	Keysight	N5182BX07	MY59362500	2023.05.20	2024.05.19	N/A	N/A
EXG-B MW Analog Signal Generator	Keysight	N5173B	MY61252566	2023.08.26	2024.08.25	B.01.95	N/A
Test Software	Tonscend	TS1120	JS1120-3	N/A	N/A	N/A	V3.0.22

Test-Set (AC2)

Instrument	Manufacturer	Model No.	Serial No.	Cal.Date	Next Cal. Date	Firmware Version	Software Version
EMI Test Receiver	R&S	ESCI	100573	2023.09.17	2024.09.16	4.42 SP3	N/A
Loop Antenna	R&S	HFH2-Z2E	101149	2023.04.25	2024.04.24	N/A	N/A
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2023.02.20	2024.02.19	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	AC2-TH	2023.05.19	2024.05.18	N/A	N/A
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2023.05.21	2024.05.20	N/A	N/A
Dekra test software	Dekra	N/A	N/A	N/A	N/A	N/A	3

Test-Set (AC5)

Instrument	Manufacturer	Model No.	Serial No.	Cal.Date	Next Cal. Date	Firmware Version	Software Version
EXA Spectrum Analyzer	Keysight	N9020B	MY60112218	2023.11.08	2024.11.07	A.31.05	N/A
Pre-Amplifier	SKET	LNPA_0118G-45	SK2021090101	2023.05.14	2024.05.13	N/A	N/A
Preamplifier	CHENGYI	EMC184045SE	980263	2023.07.09	2024.07.08	N/A	N/A

DRG Horn Antenna	ETS-Lindgren	3117	00167055	2023.09.16	2024.09.15	N/A	N/A
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2023.05.31	2024.05.30	N/A	N/A
Filter Switch Box	MVE	MSW-F196	C070001S	2023.05.21	2024.05.20	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	AC5-TH	2023.05.19	2024.05.18	N/A	N/A
Coaxial Cable	ROSENBERGER	LA1-C011-2000/3000	AC5-40G-2	2023.05.21	2024.05.20	N/A	N/A
Dekra test software	Dekra	N/A	N/A	N/A	N/A	N/A	3

UNCERTAINTY

Uncertainties have been calculated according to the DEKRA internal document. The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

Test item	Uncertainty
Radiated Emission(30MHz~1GHz)	Horizontal: 30MHz~200MHz: 4.60 dB 200MHz~1GHz: 4.10 dB Vertical: 30MHz~200MHz: 4.80 dB 200MHz~1GHz: 4.10 dB
Radiated Emission(1GHz~40GHz)	Horizontal: 1GHz~18GHz: 5.00 dB Vertical: 1GHz~18GHz: 4.80 dB Horizontal: 18GHz~40GHz: 4.70 dB Vertical: 18GHz~40GHz: 4.60 dB
RF Antenna Port Conducted Emission	± 1.13 dB
Radiated Emission Band Edge	± 5.00 dB
Occupied Bandwidth	± 279 Hz
Power Spectral Density	± 1.13 dB
Frequency Stability	± 100 Hz
AC Power Line Conducted Emission	± 2.02dB

1 GENERAL INFORMATION

1.1 General Description of the Item(s)

Product Name..... :	POS Station
Model No. ..... :	MTPOS-S4G Pro
Trademark ..... :	peppr
FCC ID ..... :	2AYT5-S4GPRO
Hardware Version ..... :	EM_T7030_V1.2
Software Version..... :	1.01.20240130
Manufacturer..... :	Beehub Inc
Manufacturer address ..... :	108 W. 13th Street, Suite 100, Wilmington, DE 19801 in the County of New Castle, Delaware
Factory ..... :	Hefei BOE Vision-electronic Technology Co.,Ltd.
Factory address ..... :	NO.2177 Dongfang RD, Xinzhan General Pilot Zone, HeFei, Anhui, 230012, P.R.China

Wireless specifiction..... :	Wi-Fi			
Frequency Range ..... :	☒	5150MHz~5250MHz	☐	Outdoor AP
			☐	Indoor AP
			☒	Fixed point-to-point AP
			☐	Mobile Client
	☐	5250MHz~5350MHz		
	☐	5470MHz~5725MHz	☒	With TDWR Channels
			☐	Without TDWR Channels
	☒	5725MHz~5850MHz		
Type of Modulation & Data Rate.... :	Refer to Clause 1.4			

Rated power supply .....:	Voltage and Frequency	
	☐	AC: 220 - 240 V, 50/60 Hz
	☒	AC: 100 - 240 V, 50/60 Hz
	☐	DC: 24 Vdc
Brand of adapter .....:	STONE	
Adapter model .....:	Model: STA65-240150-C14 Input: 100-240V-50/60Hz, 1.5A Max Output: 24.0V 1.5A	
Mounting position.....:	☒	Table top equipment
	☐	Wall/Ceiling mounted equipment
	☐	Floor standing equipment
	☐	Hand-held/Protable equipment
	☐	Other:

1.2 Antenna Information

Antenna model / type number ..... :	SLK-BOE-3212H3-R-110I-B			
Antenna serial number ..... :	61005-00774			
Antenna Delivery ..... :	☒	1TX + 1RX		
	☒	2TX + 2RX		
	☐	Others:……		
Antenna technology ..... :	☒	SISO		
	☒	MIMO	☒	CDD
			☐	Beam-forming
Antenna Type ..... :	☐	External	☐	Dipole
			☐	Sectorized
	☒	Internal	☐	Ceramic Chip
			☒	PIFA
			☐	PCB
			☐	Others……..
Antenna Gain..... :	2.92 dBi			

1.3 Channel List

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

1.4 Power vs Data Rate

IEEE 802.11a

SpatialStreams	Modulation type	Coding rate	802.11a
1	BPSK	1/2	6
	QPSK	1/2	9
	QPSK	3/4	12
	16-QAM	1/2	18
	16-QAM	3/4	24
	64-QAM	2/3	36
	64-QAM	3/4	48
	64-QAM	5/6	54

Note 1: The blue form is the maximum power data rate.
Note 2: The EUT supports 8 spatial streams.

IEEE 802.11n

SpatialStreams	MCS Index for 802.11n	Modulation type	Coding rate	Data Rate (Mbps)			
				20MHz Bandwidth		40MHz Bandwidth	
				800ns GI	400ns GI	800ns GI	400ns GI
1	0	BPSK	1/2	6.5	7.2	13.5	15.0
	1	QPSK	1/2	13.0	14.4	27.0	30.0
	2	QPSK	3/4	19.5	21.7	40.5	45.0
	3	16-QAM	1/2	26.0	28.9	54.0	60.0
	4	16-QAM	3/4	39.0	43.3	81.0	90.0
	5	64-QAM	2/3	52.0	57.8	108.0	120.0
	6	64-QAM	3/4	58.5	65.0	121.5	135.0
	7	64-QAM	5/6	65.0	72.2	135.0	150.0
2	8	BPSK	1/2	13.0	14.4	27.0	30.0
	9	QPSK	1/2	26.0	28.9	54.0	60.0
	10	QPSK	3/4	39.0	43.3	81.0	90.0
	11	16-QAM	1/2	52.0	57.8	108.0	120.0
	12	16-QAM	3/4	78.0	86.7	162.0	180.0
	13	64-QAM	2/3	104.0	115.6	216.0	240.0
	14	64-QAM	3/4	117.0	130.0	243.0	270.0
	15	64-QAM	5/6	130.0	144.0	270.0	300.0
3	16	BPSK	1/2	19.5	21.6	40.5	45
	17	QPSK	1/2	39	43.2	81	90
	18	QPSK	3/4	58.5	65.1	121.5	135
	19	16-QAM	1/2	78	86.7	162	180
	20	16-QAM	3/4	117	129.9	243	270
	21	64-QAM	2/3	156	173.4	324	360

	22	64-QAM	3/4	175.5	195	364.5	405
	23	64-QAM	5/6	195	216.6	405	450
4	24	BPSK	1/2	26	28.8	54	60
	25	QPSK	1/2	52	57.6	108	120
	26	QPSK	3/4	78	86.8	162	180
	27	16-QAM	1/2	104	115.6	216	240
	28	16-QAM	3/4	156	173.2	324	360
	29	64-QAM	2/3	208	231.2	432	480
	30	64-QAM	3/4	234	260	486	540
	31	64-QAM	5/6	260	288.8	540	600

Note 1: The blue form is the maximum power data rate.
Note 2: The EUT supports 32 spatial streams.

IEEE 802.11ac

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	
				1600 ns	800 ns	1600 ns	800 ns	1600 ns	800 ns	1600 ns	800 ns
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
2	10	BPSK	1/2	13	14.4	27	30	58.6	65	117	130
	11	QPSK	1/2	26	28.8	54	60	117	130	234	260
	12	QPSK	3/4	39	43.4	81	90	175.6	195	351	390
	13	16-QAM	1/2	52	57.8	108	120	234	260	468	520
	14	16-QAM	3/4	78	86.6	162	180	351	390	702	780
	15	64-QAM	2/3	104	115.6	216	240	468	520	936	1040
	16	64-QAM	3/4	117	130	243	270	526.6	585	1053	1170
	17	64-QAM	5/6	130	144.4	270	300	585	650	1170	1300
	18	256-QAM	3/4	156	173.4	324	360	702	780	1404	1560
	19	256-QAM	5/6	N/A	N/A	360	400	780	866.6	1560	1732
3	20	BPSK	1/2	19.5	21.6	40.5	45	87.9	97.5	175.5	195
	21	QPSK	1/2	39	43.2	81	90	175.5	195	351	390
	22	QPSK	3/4	58.5	65.1	121.5	135	263.4	292.5	526.5	585
	23	16-QAM	1/2	78	86.7	162	180	351	390	702	780
	24	16-QAM	3/4	117	129.9	243	270	526.5	585	1053	1170
	25	64-QAM	2/3	156	173.4	324	360	702	780	1404	1560
	26	64-QAM	3/4	175.5	195	364.5	405	789.9	877.5	1579.5	1755
	27	64-QAM	5/6	195	216.6	405	450	877.5	975	1755	1950
	28	256-QAM	3/4	234	260.1	486	540	1053	1170	2106	2340
	29	256-QAM	5/6	N/A	N/A	540	600	1170	1299.9	2340	2598
4	30	BPSK	1/2	26	28.8	54	60	117.2	130	234	260
	31	QPSK	1/2	52	57.6	108	120	234	260	468	520

	32	**QPSK**	**3/4**	**78**	**86.8**	**162**	**180**	**351.2**	**390**	**702**	**780**
	33	**16-QAM**	**1/2**	**104**	**115.6**	**216**	**240**	**468**	**520**	**936**	**1040**
	34	**16-QAM**	**3/4**	**156**	**173.2**	**324**	**360**	**702**	**780**	**1404**	**1560**
	35	**64-QAM**	**2/3**	**208**	**231.2**	**432**	**480**	**936**	**1040**	**1872**	**2080**
	36	**64-QAM**	**3/4**	**234**	**260**	**486**	**540**	**1053.2**	**1170**	**2106**	**2340**
	37	**64-QAM**	**5/6**	**260**	**288.8**	**540**	**600**	**1170**	**1300**	**2340**	**2600**
	38	**256-QAM**	**3/4**	**312**	**346.8**	**648**	**720**	**1404**	**1560**	**2808**	**3120**
	39	**256-QAM**	**5/6**	**N/A**	**N/A**	**720**	**800**	**1560**	**1733.2**	**3120**	**3464**
Note 1: The blue form is the maximum power data rate. **Note 2: The EUT supports 40 spatial streams.**											

Note: The General Description of the Item, antenna information, Data Rate and Channel List in clause 1 are provided and confirmed by the client.

2 DESCRIPTION OF TEST SETUP

2.1 Operating mode(s) used for tests

During the tests the following operating mode(s) has(have) been used.

Test Mode	Mode 1: Transmit by 802.1a
	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)

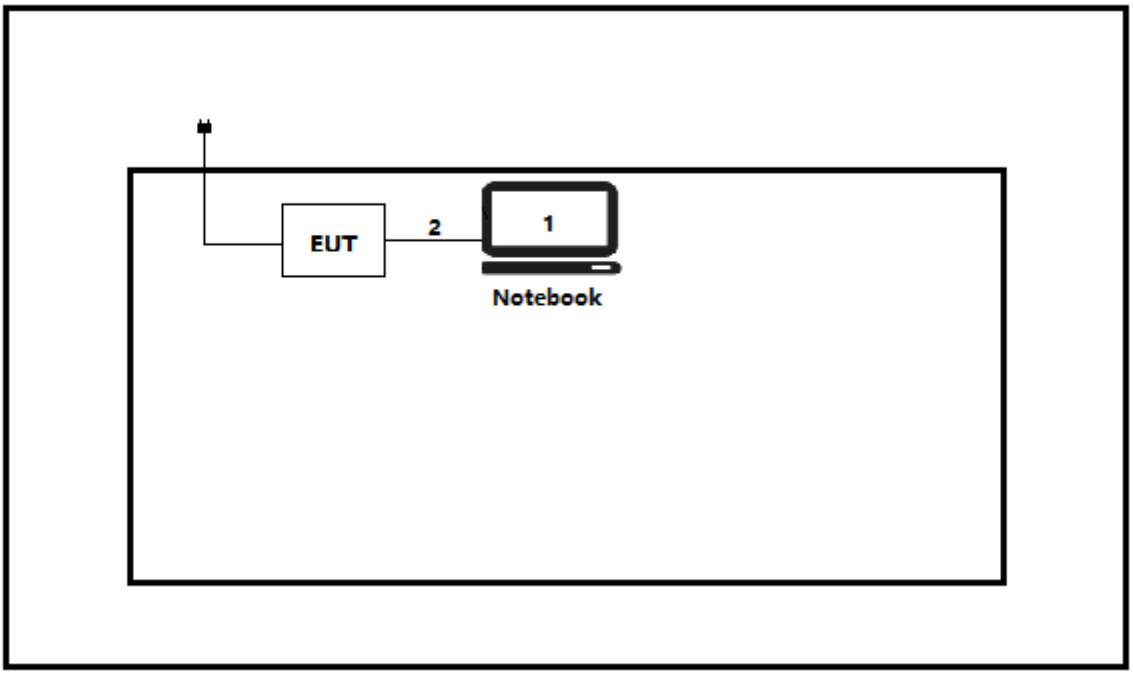
2.2 Auxiliary equipment / Test software for the EUT

Auxiliary equipment	Type / Version	Manufacturer	Supplied by
(1) Notebook	Think pad x220	Lenovo	Adapter
(2) USB Control Cable	N/A	N/A	N/A
(3) USB Control Cable	N/A	N/A	N/A
software	Type / Version		
MTK_Android_Flash Tool	V1.0		

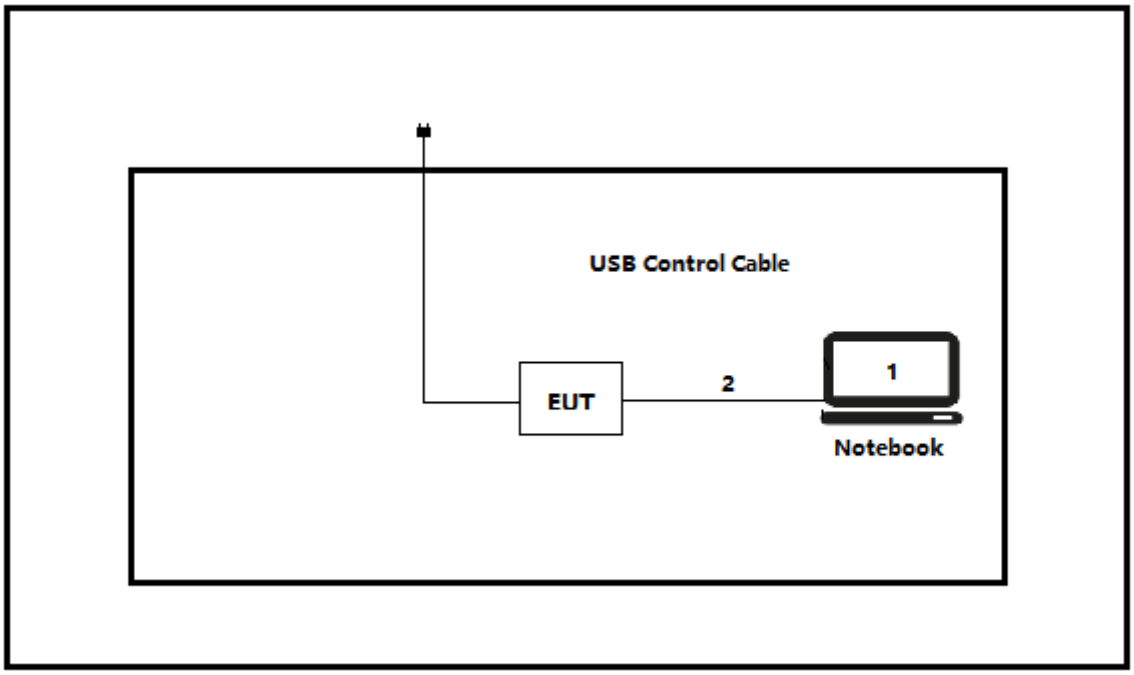
Accessories Information	Cable		
	Length used during test [m]	Attached during test	Shielded
(2)USB Control Cable	1	☒	☒
(3)USB Control Cable	8	☒	☒

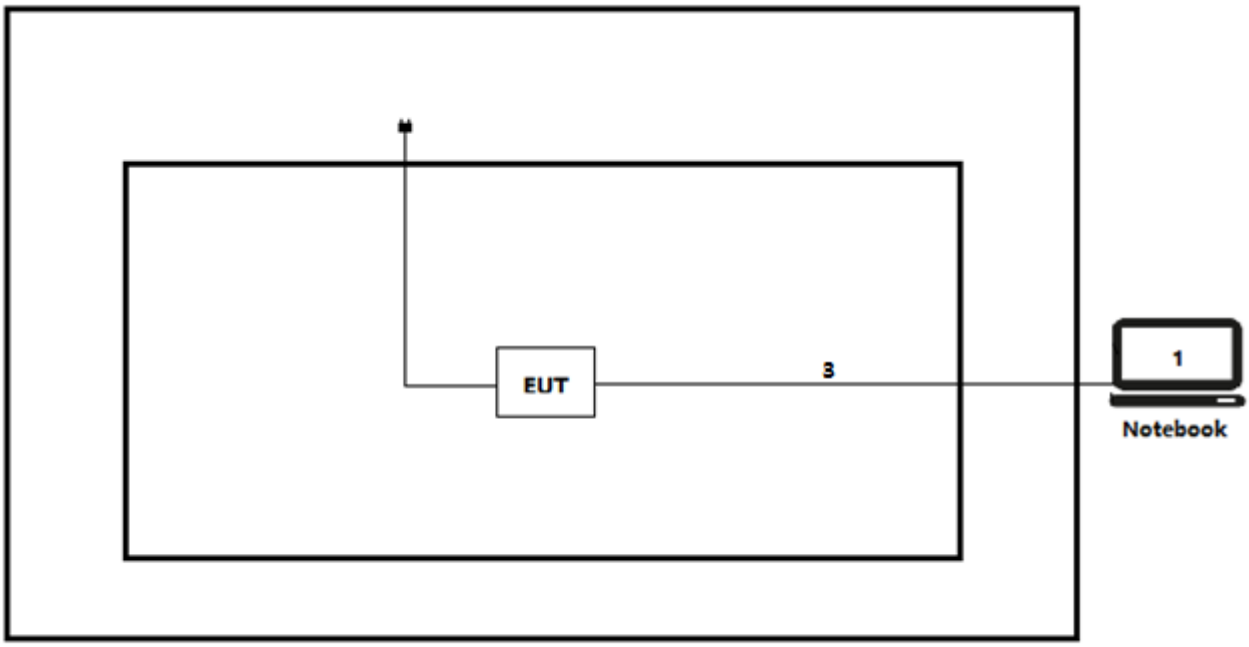
2.3 Test Configuration / Block diagram used for tests

Test setup Diagram- AC Line Conducted Emission Test



Test setup Diagram- Conducted test



Test setup Diagram- Ratiated test


2.4 Testing process

1	Setup the EUT shown in Section 2.3.
2	Execute the [MTK_Android_Flash Tool] on the notebook.
3	Configure the test mode, the test channel, and the data rate.
4	Verify that the EUT works properly.

3 VERDICT SUMMARY SECTION

This chapter presents an overview of standards and results. Refer to the next chapters for details of measured test results and applied test levels.

3.1 Standards

Standard	Year	Description
FCC CFR Title 47 Part 15 Subpart E Section 15.407	2017	General technical requirements for 5.15-5.25 GHz;5.25-5.35 GHz; 5.47-5.725 GHz;5.725-5.85 GHz.
ANSI C63.10	2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
KDB 789033 D02 General UNII Test Procedures New Rules v02r01	2017	This document provides guidance for determining emissions compliance of U-NII devices under Part 15, Subpart E of the FCC rules.

3.2 Deviation(s) from the Standard(s) / Test Specification(s)

The following deviation(s) was / were made from the published requirements of the listed standards: N/A.

(Please define the deviations from the standard(s) if applicable)

3.3 Overview of results

Requirement – Test case	Basic standard(s)	Verdict	Remark
Conducted Emission	FCC CFR Title 47 Part 15 Subpart E: Section 15.207	PASS	Test data please refer to **Appendix A**
Radiated Emission	FCC CFR Title 47 Part 15 Subpart E: Section 15.209	PASS	Test data please refer to **Appendix B**
Emission bandwidth and occupied bandwidth	FCC CFR Title 47 Part 15 Subpart E: Section 15.407(e)	PASS	Test data please refer to **Appendix C**
6dB Emission Bandwidth	FCC CFR Title 47 Part 15 Subpart E: Section 15.407(e)	PASS	Test data please refer to **Appendix D**
Duty Cycle	ANSI C63.10	PASS	Test data please refer to **Appendix E**
Power Output	FCC CFR Title 47 Part 15 Subpart E: Section 15.407(a)	PASS	Test data please refer to **Appendix F**
Peak Power Spectral Density	FCC CFR Title 47 Part 15 Subpart E: Section 15.407(a)	PASS	Test data please refer to **Appendix G**
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart E: Section 15.205, 15.407(b)	PASS	Test data please refer to **Appendix H**
Frequency Stability	FCC CFR Title 47 Part 15 Subpart E: Section 15.407(g)	PASS	Test data please refer to **Appendix I**
Antenna Requirement	FCC 15.203	PASS	---

3.4 Power setting in test

Mode	Channel	Frequency (MHz)	Power setting		
			SISO		MIMO
			Ant 1	Ant 2	Ant 1+2
802.11a	36	5180	22	20	N/A
	40	5200	22	20	N/A
	48	5240	22	20	N/A
	149	5745	18	17	N/A
	157	5785	18	17	N/A
	165	5825	18	18	N/A
802.11n(20MHz)	36	5180	23	21	21
	40	5200	23	21	21
	48	5240	23	21	21
	149	5745	20	18	18
	157	5785	19	18	18
	165	5825	19	18	18
802.11n(40MHz)	38	5190	20	18	19
	46	5230	20	18	19
	151	5755	18	16	16
	159	5795	18	17	17
802.11ac(20MHz)	36	5180	23	21	22
	40	5200	23	21	22
	48	5240	23	21	22
	52	5260	20	18	18
	149	5745	20	19	19
	157	5785	20	19	19
	165	5825	23	21	22
802.11ac(40MHz)	38	5190	21	20	20
	46	5230	21	20	20
	151	5755	18	16	16
	159	5795	18	17	17
802.11ac(80MHz)	42	5210	21	19	19
	155	5775	19	17	17

3.5 Test Matrix

Test item	Model: MTPOS-S4G Pro	
	#1	#2
Conducted Emission	☐	☒
Radiated Emission	☐	☒
Emission bandwidth and occupied bandwidth	☒	☐
6dB Emission Bandwidth	☒	☐
Duty Cycle	☒	☐
Power Output	☒	☐
Peak Power Spectral Density	☒	☐
Radiated Emission Band Edge	☐	☒
Frequency Stability	☒	☐
Antenna Requirement	☒	☐

3.6 Test Facility

USA	**:**	**FCC Designation Number: CN1199**

4 TEST RESULTS

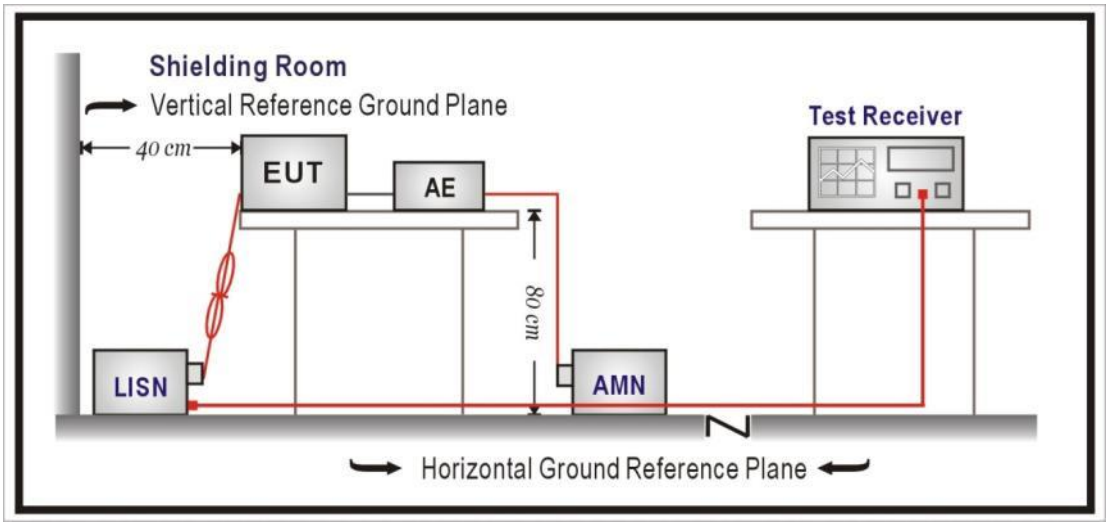
4.1 AC Power Line Conducted Emission	VERDICT: PASS

4.1.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.207	
Frequency range [MHz]	Limit: QP [dB(μV)[1)]]	Limit: AV [dB(μV) [1)]]
0,15 - 0,50	66 – 56 [2)]	56 - 46 [2)]
0,50 - 5,0	56	46
5,0 - 30	60	50

[1)] At the transition frequency, the lower limit applies.
[2)] The limit decreases linearly with the logarithm of the frequency.
NOTE 1: The exclusion band for transmitters shall be considered for transmitters operating at frequencies below 30 MHz.
NOTE 2: Where the AC output port is directly connected (or via a circuit breaker) to the AC power input port of the EUT the AC power output port need not to be tested.

4.1.2 Test Setup



4.1.3 Test Procedure

	References Rule	Chapter	Item
☒	ANSI C63.10-2013	6.2	Standard test method for ac power-line conducted emissions from unlicensed wireless devices

4.2 Radiated Emissions — VERDICT: PASS

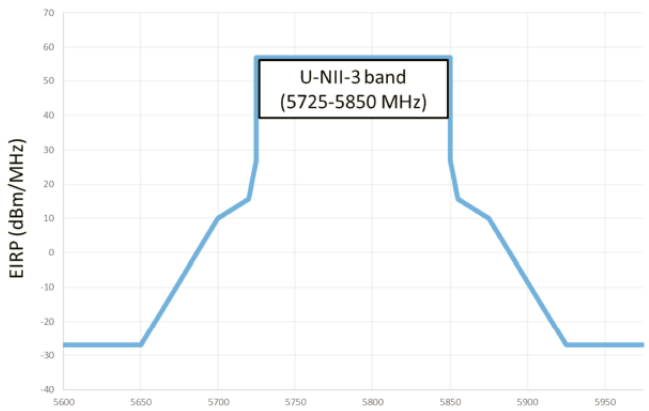
4.2.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.209		
Restricted Bands of operation			
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 –16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1300 – 1427	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1435 – 1626.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1645.5 – 1646.5	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1660 – 1710	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	1718.8 – 1722.2	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2200 – 2300	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2310 – 2390	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2483.5 – 2500	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	2690 – 2900	22.01 – 23.12
8.81425 – 8.81475	162.0125 – 167.17	3260 – 3267	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3332 – 3339	31.2 – 31.8
12.51975–12.52025	240 – 285	3345.8 – 3358	36.43 – 36.5
12.57675–12.57725	322 – 335.4	3600 – 4400	
13.36 – 13.41			

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

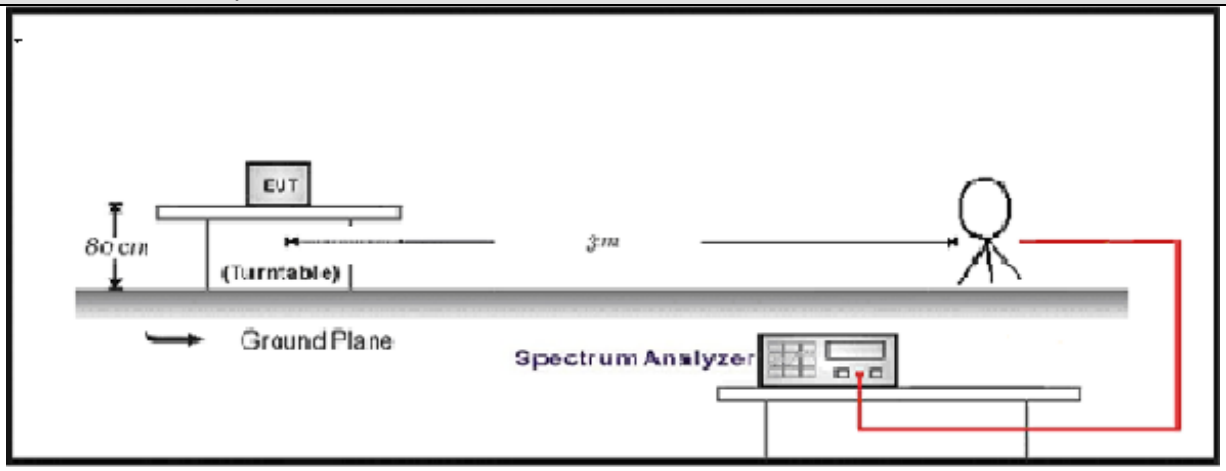
Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed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

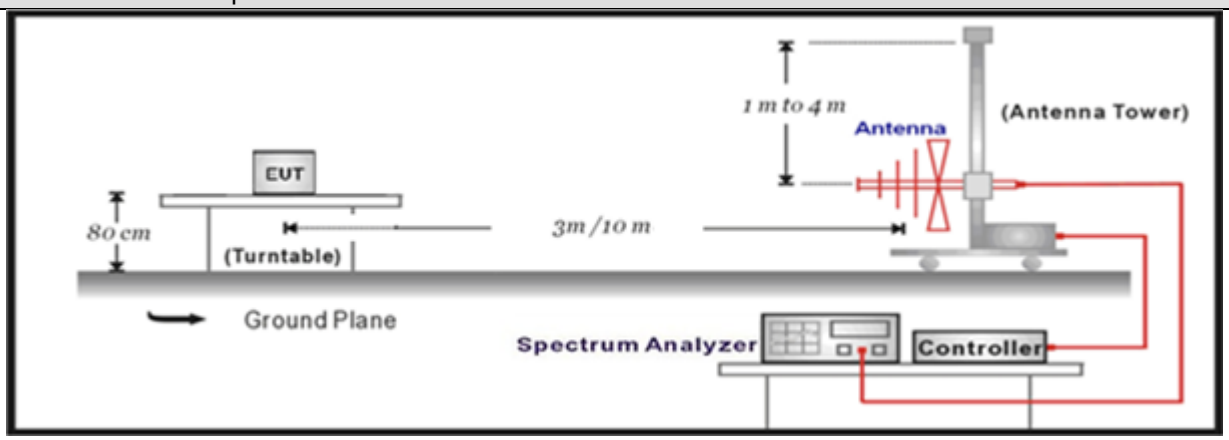
FCC Part 15 Subpart C Paragraph 15.407(5)(b) (Unrestricted Band Emissions Limit)		
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dBμV/m)
5150 - 5250	-27	68.3
5250 - 5350	-27	68.3
5470 - 5725	-27	68.3
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	
5725 - 5850		

4.2.2 Test Setup

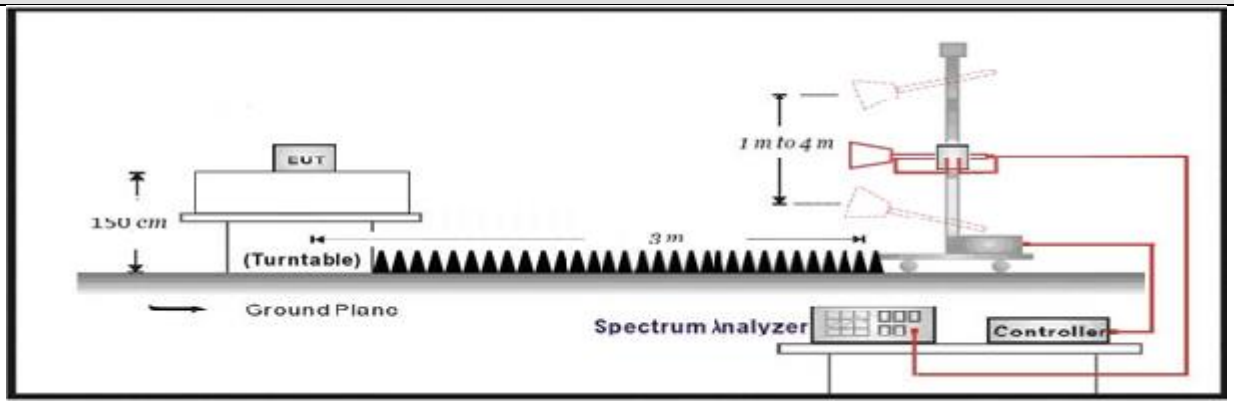
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



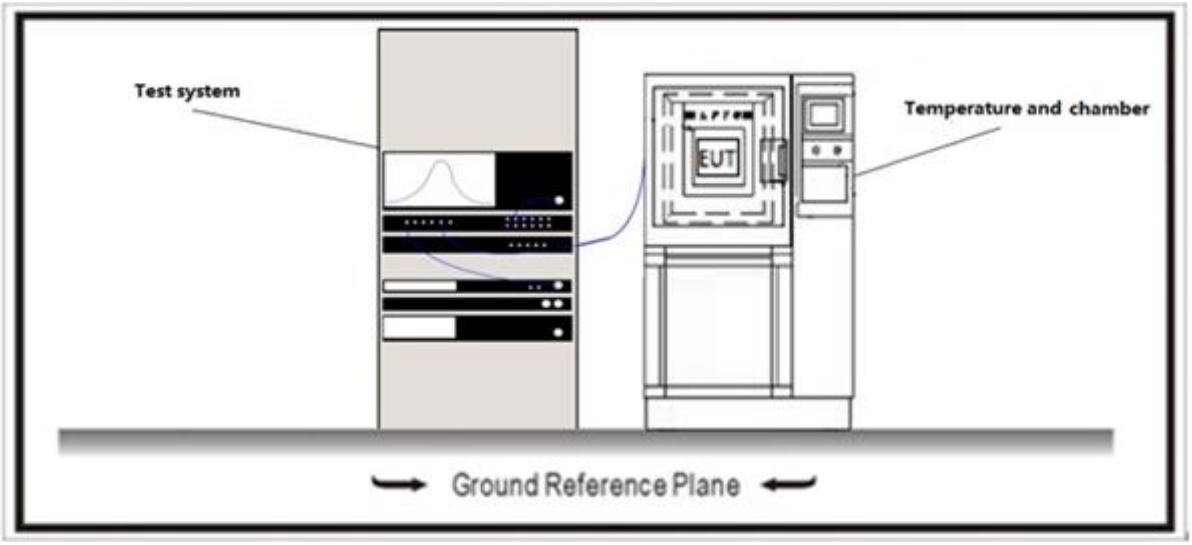
4.2.3 Test Procedure

	References Rule			Chapter	Description
☒	ANSI C63.10			11.12	Emissions in restricted frequency bands
	☒	ANSI C63.10		11.12.1	Radiated emission measurements
	☒	ANSI C63.10		11.12.2.7	Radiated spurious emission test
		☒	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

4.3 Emission bandwidth	VERDICT: PASS

4.3.1 Limit	
Standard	FCC CFR Title 47 Part 15 Subpart E: Section 15.407
N/A	

4.3.2 Test Setup



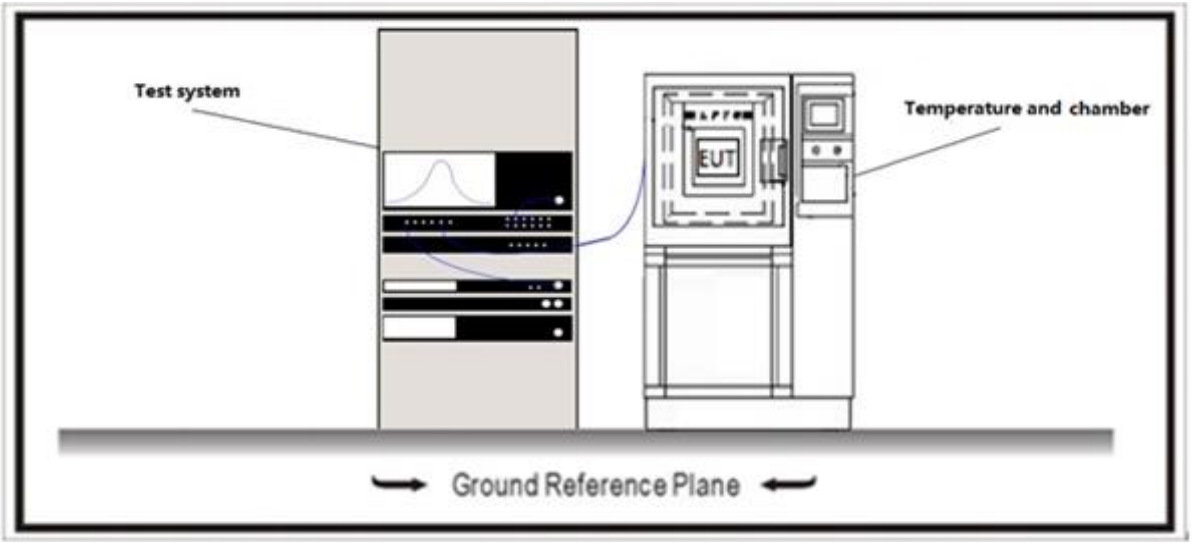
4.3.3 Test Procedure

References Rule			Chapter	Description
☒	FCC KDB 789033 D02v02r01		C	Bandwidth Measurement
	☒	FCC KDB 789033 D02v02r01	C.1	Emission Bandwidth (26dB)
	☐	FCC KDB 789033 D02v02r01	C.2	Minimum Emission Bandwidth for the band 5.725-5.85 GHz (6dB)
☐	FCC KDB 789033 D02v02r01		D	99 Percent Occupied Bandwidth

4.4 6dB bandwidth	VERDICT: PASS

4.4.1 Limit	
Standard	FCC CFR Title 47 Part 15 Subpart E: Section 15.407(e)
6dB Bandwith ⩾500KHz	

4.4.2 Test Setup



4.4.3 Test Procedure

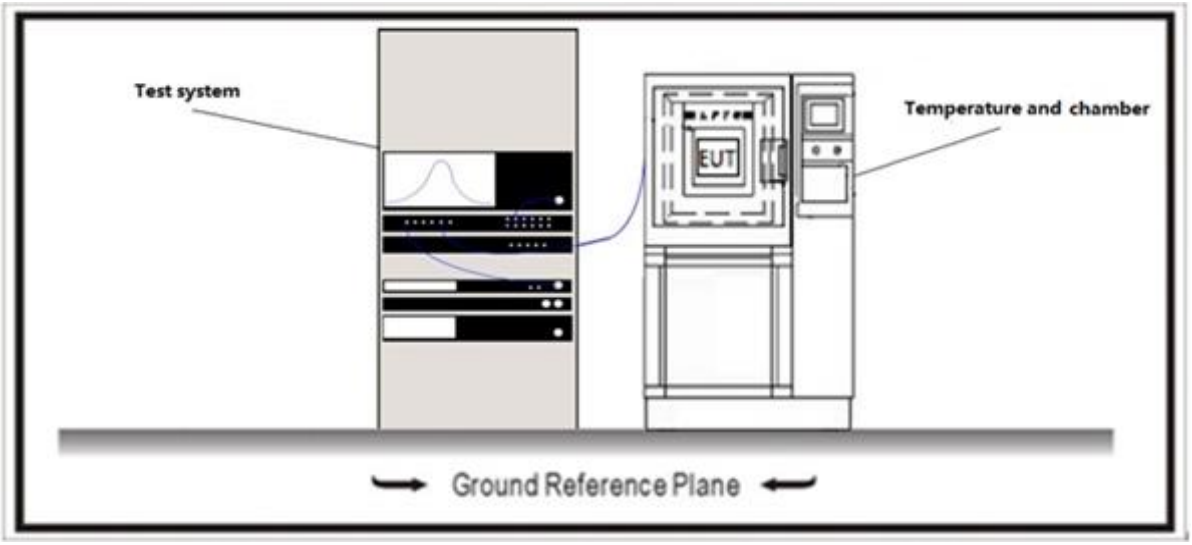
References Rule			Chapter	Description
☒	FCC KDB 789033 D02v02r01		C	Bandwidth Measurement
	☐	FCC KDB 789033 D02v02r01	C.1	Emission Bandwidth (26dB)
	☒	FCC KDB 789033 D02v02r01	C.2	Minimum Emission Bandwidth for the band 5.725-5.85 GHz (6dB)
☐	FCC KDB 789033 D02v02r01		D	99 Percent Occupied Bandwidth

4.5 Duty cycle	VERDICT: PASS

4.5.1 Limit

N/A

4.5.2 Test Setup



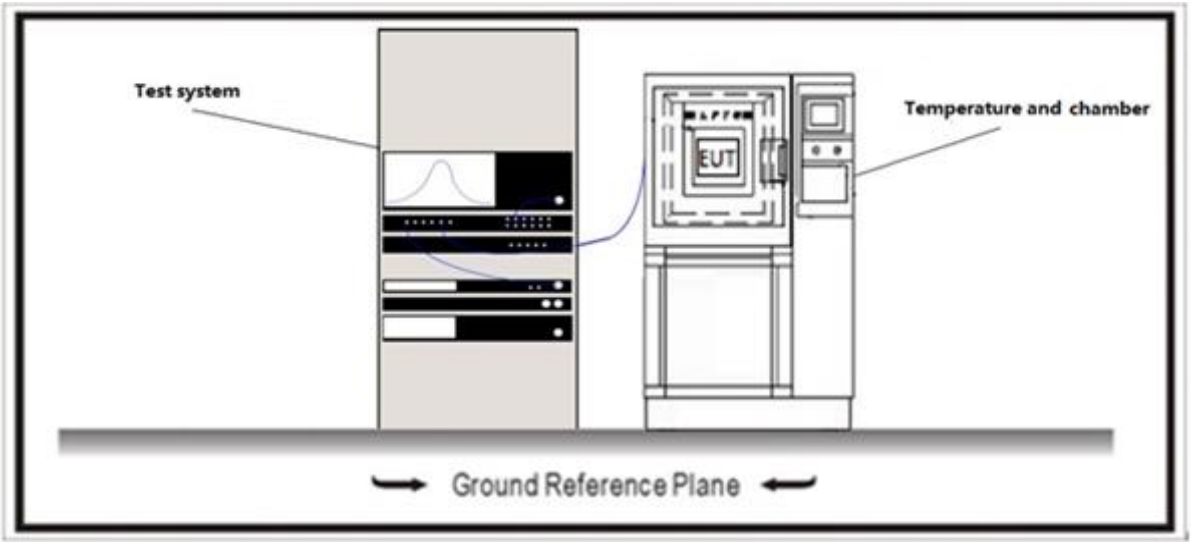
4.5.3 Test Procedure

References Rule		Chapter	Description
☒	ANSI C63.10	11.6	Duty cycle (D), transmission duration (T), and maximum power control level

4.6 Power Output	**VERDICT: PASS**

4.6.1 Limit		
Standard		FCC CFR Title 47 Part 15 Subpart C&E
☒	For the band 5.15-5.25 GHz	
	☐	Outdoor access point: the maximum conducted output power shall not exceed 1 W. If G_{TX}＞6dBi, then Pout ≤30 - (G_{TX} - 6) and ≤125mW at any angle above 30 degrees
	☐	Indoor access point: the maximum conducted output power shall not exceed 1 W. If G_{TX}＞6dBi, then Pout ≤30 - (G_{TX} - 6)
	☐	Fixed point-to-point access points: the maximum conducted output power shall not exceed 1 W. If G_{TX}＞23dBi, then Pout≤30 - (G_{TX} - 23)
	☒	Mobile and portable client devices: the maximum conducted output power shall not exceed 250mW. If G_{TX} ＞6dBi, then Pout≤24 - (G_{TX} - 6)
☐	For the band 5.25-5.35 GHz:	
	☐	The maximum conducted output power shall not exceed 250mW or 11dBm+10 Log B, where B is the 26dB emission bandwidth in MHz. If G_{TX} ＞ 6dBi, then Pout ≤ (The lesser of 24 or 11dBm+10 Log B) - (GTX - 6)
☐	For the 5.47-5.725 GHz:	
	☐	The maximum conducted output power shall not exceed 250mW or 11dBm+10 Log B, where B is the 26dB emission bandwidth in MHz. If G_{TX}＞6dBi, then Pout ≤ (The lesser of 24 or 11dBm+10 Log B) - (G_{TX} - 6)
☒	For the band 5.725-5.85 GHz:	
	☒	Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6)
	☐	Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W
Note 1 : GTX directional gain of transmitting antennas. Note 2 : Pout is maximum peak conducted output power .		

4.6.2 Test Setup



4.6.3 Test Procedure

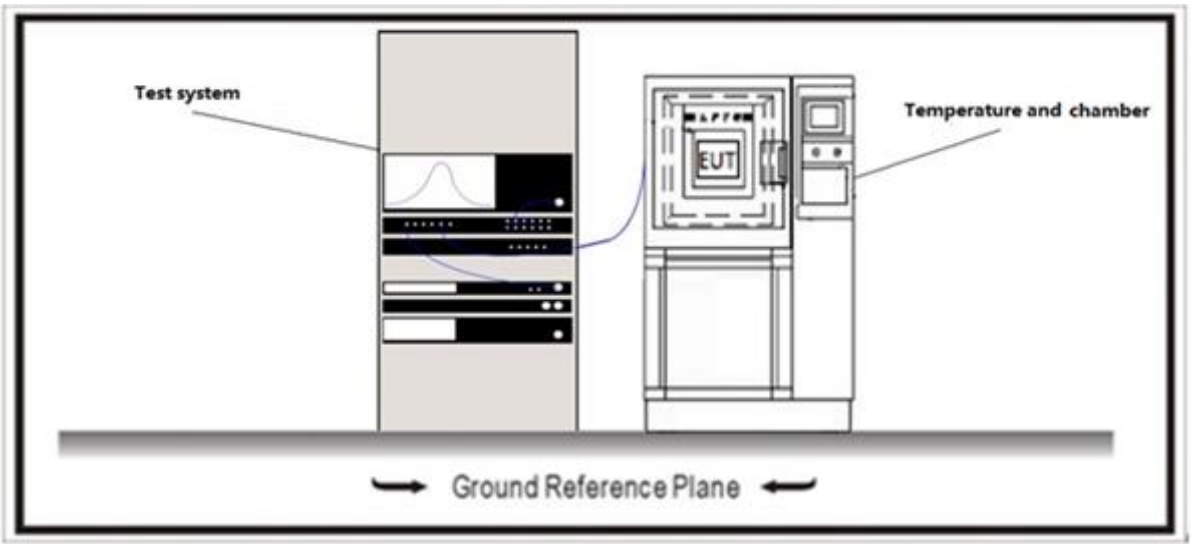
	References Rule			Chapter	Description
☒	ANSI C63.10			12.3	Maximum conducted output power
	☒	ANSI C63.10		12.3.2	Maximum conducted output power measurement using a spectrum analyzer (SA) or EMI receiver
		☐	ANSI C63.10	12.3.2.2	Method SA-1
		☐	ANSI C63.10	12.3.2.3	Method SA-1A (alternative)
		☒	ANSI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

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

4.7 Peak Power Spectral Density	VERDICT: PASS

4.7.1 Limit:		
Standard		FCC CFR Title 47 Part 15 Subpart C&E
Fundamental emission output power Limit		
☒	For the band 5.15-5.25 GHz	
	☐	Outdoor access point: the maximum power spectral density shall not exceed 17 dBm/MHz. If G_{TX}>6dBi, then Pout≤17 - (G_{TX} - 6)
	☐	Indoor access point: the maximum power spectral density shall not exceed 17 dBm/MHz. If G_{TX}>6dBi, then Pout≤17 - (G_{TX} - 6)
	☐	Fixed point-to-point access points: the maximum power spectral density shall not exceed 17 dBm/MHz. If G_{TX}>23dBi, then Pout≤17 - (G_{TX} - 23)
	☒	Mobile and portable client devices: the maximum power spectral density shall not exceed 11 dBm/MHz. If G_{TX}>6dBi, then Pout≤11 - (G_{TX} - 6)
☐	For the 5.25-5.35 GHz:	
	☐	The maximum power spectral density shall not exceed 11 dBm/MHz. If G_{TX}>6dBi, then Pout≤11 - (G_{TX} - 6)
☐	For the 5.47-5.725 GHz:	
	☐	The maximum power spectral density shall not exceed 11 dBm/MHz.If G_{TX}>6dBi, then Pout≤11 - (G_{TX} - 6)
☒	For the band 5.725-5.85 GHz:	
	☒	The maximum power spectral density shall not exceed 30 dBm/500KHz. If G_{TX}>6dBi, then Pout≤30 - (G_{TX} - 6)
Note 1: GTX directional gain of transmitting antennas. Note 2: Pout is maximum peak conducted output power.		

4.7.2 Test Setup



4.7.3 Test Procedure

	References Rule	Chapter	Description
☒	ANSI C63.10	12.5	Peak power spectral density
☒	FCC KDB 789033 D02v02r01	F	Maximum Power Spectral Density (PSD)

Directional Gain Calculations for In-Band test method

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

4.8 Radiated Emission Band Edge — VERDICT: PASS

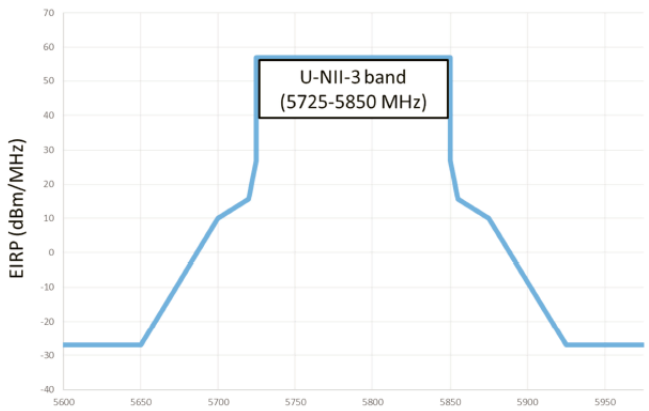
4.8.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.209		
Restricted Bands of operation			
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 –16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1300 – 1427	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1435 – 1626.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1645.5 – 1646.5	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1660 – 1710	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	1718.8 – 1722.2	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2200 – 2300	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2310 – 2390	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2483.5 – 2500	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	2690 – 2900	22.01 – 23.12
8.81425 – 8.81475	162.0125 – 167.17	3260 – 3267	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3332 – 3339	31.2 – 31.8
12.51975–12.52025	240 – 285	3345.8 – 3358	36.43 – 36.5
12.57675–12.57725	322 – 335.4	3600 – 4400	
13.36 – 13.41			

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

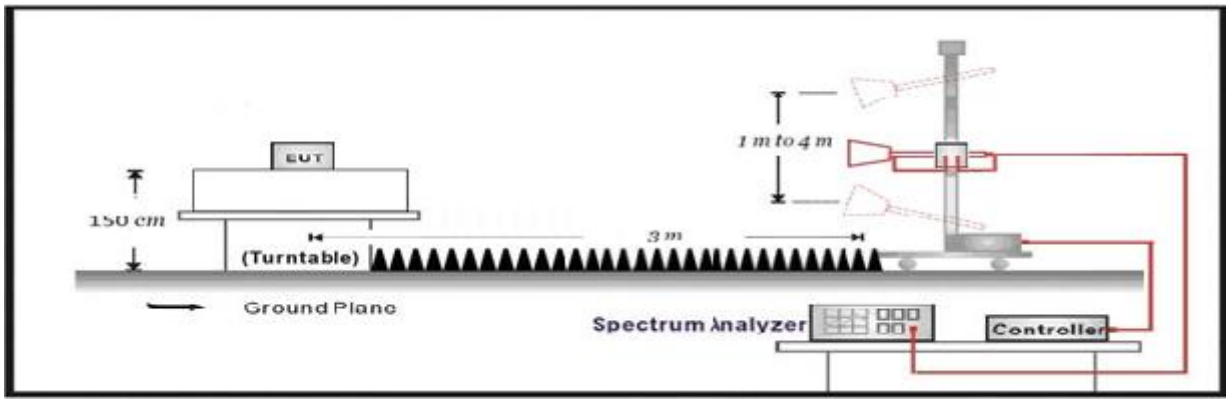
Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed 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 15.407(5)(b) (Unrestricted Band Emissions Limit)		
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dBμV/m)
5150 - 5250	-27	68.3
5250 - 5350	-27	68.3
5470 - 5725	-27	68.3
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	
5725 - 5850		

4.8.2 Test Setup

Above 1GHz Test Setup:



4.8.3 Test Procedure

	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 D02v02r01	G.2	Unwanted Emissions that fall Outside of the Restricted Bands
☐	FCC KDB 789033 D02v02r01	G.1	Unwanted Emissions in the Restricted Bands
	☐ FCC KDB 789033 D02v02r01	G.4	Procedure for Unwanted Emissions Measurements below 1000 MHz
	☐ FCC KDB 789033 D02v02r01	G.5	Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz

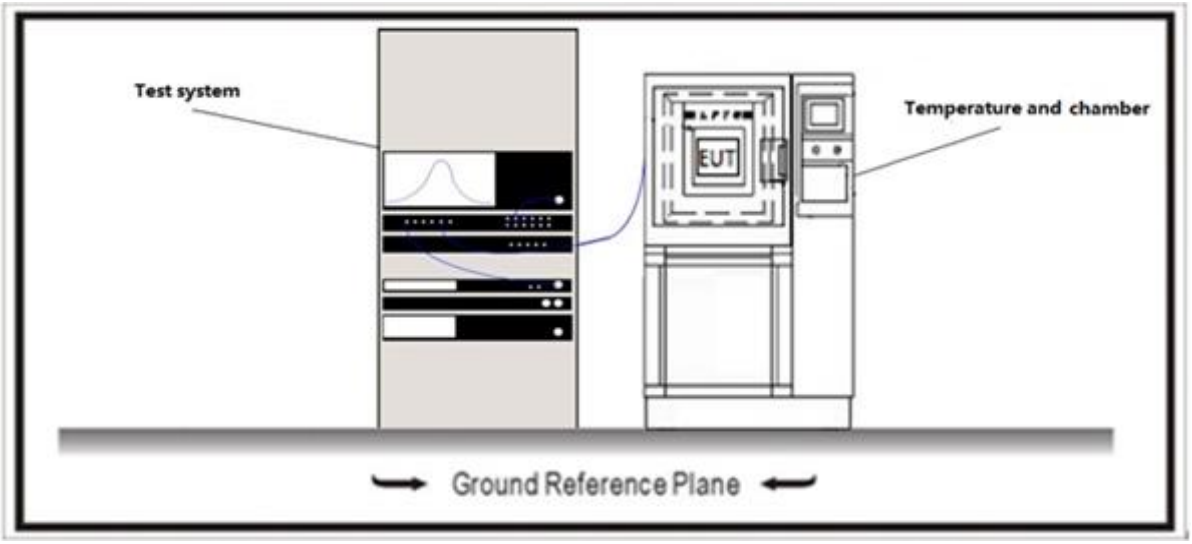
	☐	FCC KDB 789033 D02v02r01		G.6	Procedures for Average Unwanted Emissions Measurements above 1000 MHz
		☐	FCC KDB 789033 D02v02r01	G.6.c	Method AD (Average detection)—primary method
		☐	FCC KDB 789033 D02v02r01	G.6.d	Method VB (Averaging using reduced video bandwidth): Alternative method.

4.9 Frequency Stability	VERDICT: PASS

4.9.1 Limit:

In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.
The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band and ± 25ppm maximum for the 2.4 GHz band.

4.9.2 Test Setup



4.9.3 Test Procedure

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

4.10 Antenna Requirement	VERDICT: PASS

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

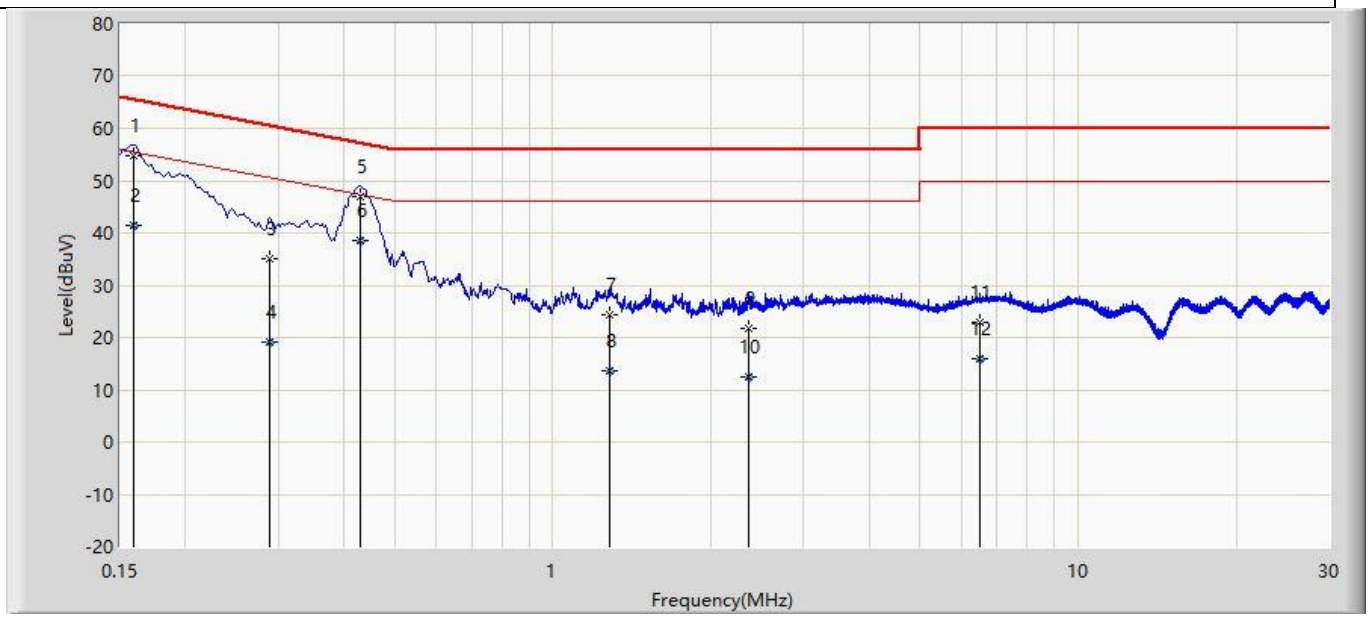
4.10.2 Antenna Connector Construction:	
☒	The use of a permanently attached antenna
☐	The antenna use of a unique coupling to the intentional radiator
☐	The use of a nonstandard antenna jack or electrical connector
Please refer to the attached document “Internal Photograph” to show the antenna connector.	

5 TEST SETUP PHOTO AND EUT PHOTO

Remark: The test setup photo and EUT Photo please see appendix.

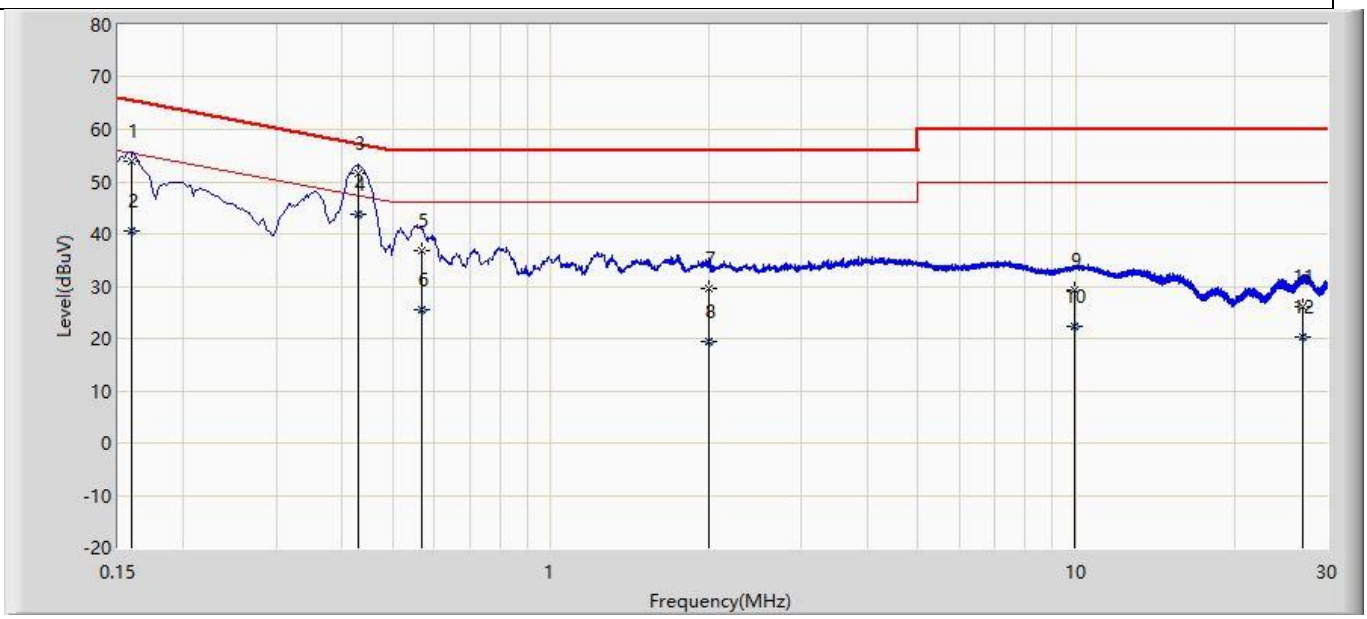
6 TEST RESULT-APPENDIX A: CONDUCTED EMISSION

Profile: 2410570R	Page No.: 31
Engineer: Pengchengyang	
Site: TR1	Time: 2024/02/01 - 08:36
Limit: FCC_Part 15.107_CE_AC Power_Class B	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Line
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode: Line	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.159	54.805	45.180	-10.711	65.516	9.624	QP
2		0.159	41.362	31.738	-14.154	55.516	9.624	AV
3		0.289	34.984	25.358	-25.554	60.539	9.627	QP
4		0.289	19.048	9.422	-31.490	50.539	9.627	AV
5		0.429	46.854	37.220	-10.418	57.272	9.633	QP
6	*	0.429	38.450	28.817	-8.822	47.272	9.633	AV
7		1.280	24.328	14.652	-31.672	56.000	9.677	QP
8		1.280	13.640	3.963	-32.360	46.000	9.677	AV
9		2.364	21.727	12.022	-34.273	56.000	9.704	QP
10		2.364	12.591	2.887	-33.409	46.000	9.704	AV
11		6.497	22.987	13.185	-37.013	60.000	9.802	QP
12		6.497	16.057	6.255	-33.943	50.000	9.802	AV

Profile: 2410570R	Page No.: 32
Engineer: Pengchengyang	
Site: TR1	Time: 2024/02/01 - 08:37
Limit: FCC_Part 15.107_CE_AC Power_Class B	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Neutral
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode: Neutral	

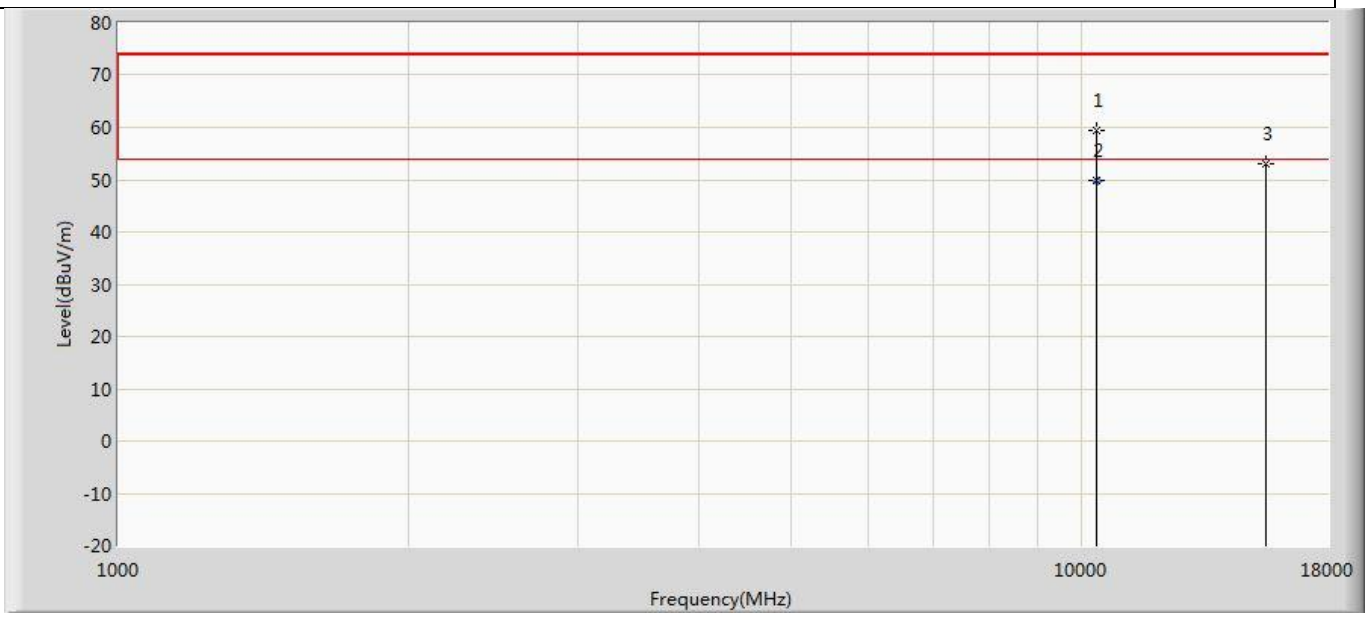


No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.159	53.935	44.305	-11.581	65.516	9.630	QP
2		0.159	40.653	31.022	-14.863	55.516	9.630	AV
3		0.429	51.508	41.865	-5.764	57.272	9.643	QP
4	*	0.429	43.842	34.199	-3.430	47.272	9.643	AV
5		0.569	36.670	27.020	-19.330	56.000	9.650	QP
6		0.569	25.546	15.896	-20.454	46.000	9.650	AV
7		2.004	29.422	19.727	-26.578	56.000	9.695	QP
8		2.004	19.503	9.808	-26.497	46.000	9.695	AV
9		9.919	29.135	19.247	-30.865	60.000	9.888	QP
10		9.919	22.436	12.548	-27.564	50.000	9.888	AV
11		26.983	26.121	16.006	-33.879	60.000	10.115	QP
12		26.983	20.164	10.049	-29.836	50.000	10.115	AV

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

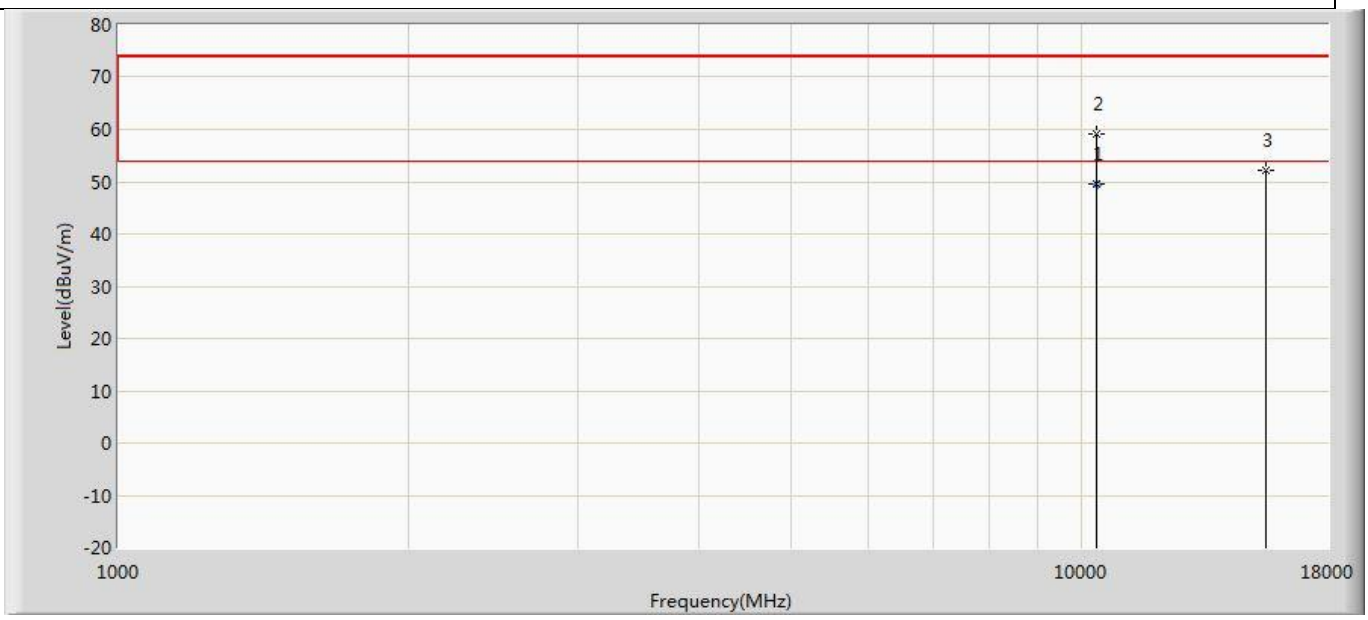
7 TEST RESULT-APPENDIX B: RADIATED EMISSION

Profile: 2410570R	Page No.: 29
Engineer: PengchengYang	
Site: AC5	Time: 2024/02/03 - 11:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 1：Transmit at 5180MHz by 802.11a with Ant1	



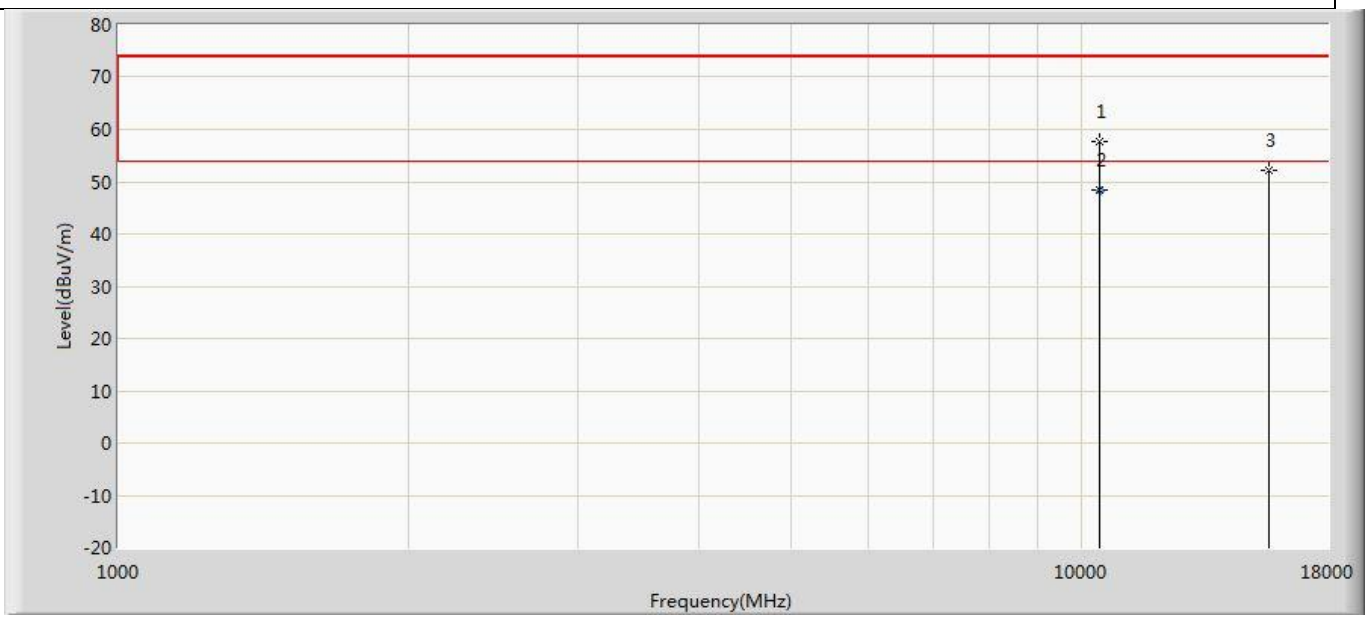
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10350.000	59.469	63.209	-14.531	74.000	-3.740	PK
2	*	10360.580	49.933	53.320	-4.067	54.000	-3.387	AV
3		15540.000	52.956	51.913	-21.044	74.000	1.043	PK

Profile: 2410570R	Page No.: 30
Engineer: PengchengYang	
Site: AC5	Time: 2024/02/03 - 11:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 1：Transmit at 5180MHz by 802.11a with Ant1	



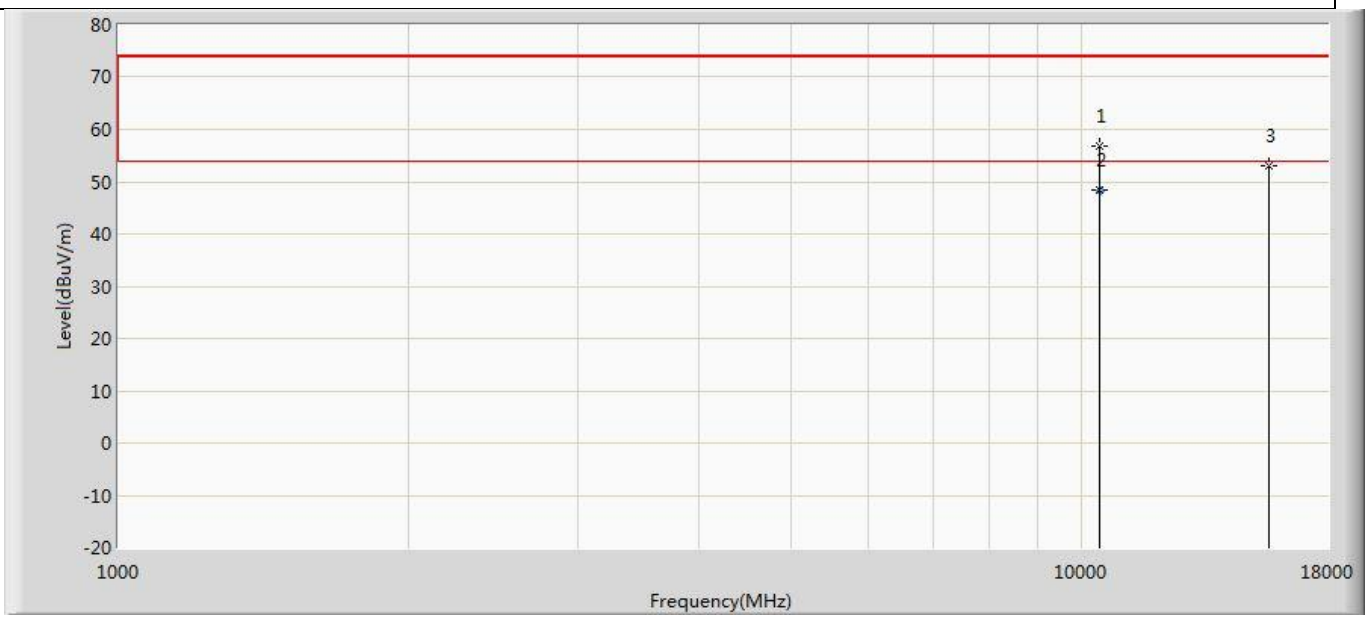
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10360.640	49.685	53.070	-4.315	54.000	-3.385	AV
2		10367.000	59.200	62.372	-14.800	74.000	-3.172	PK
3		15540.000	52.048	51.005	-21.952	74.000	1.043	PK

Profile: 2410570R	Page No.: 31
Engineer: PengchengYang	
Site: AC5	Time: 2024/02/03 - 11:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 1：Transmit at 5220MHz by 802.11a with Ant1	



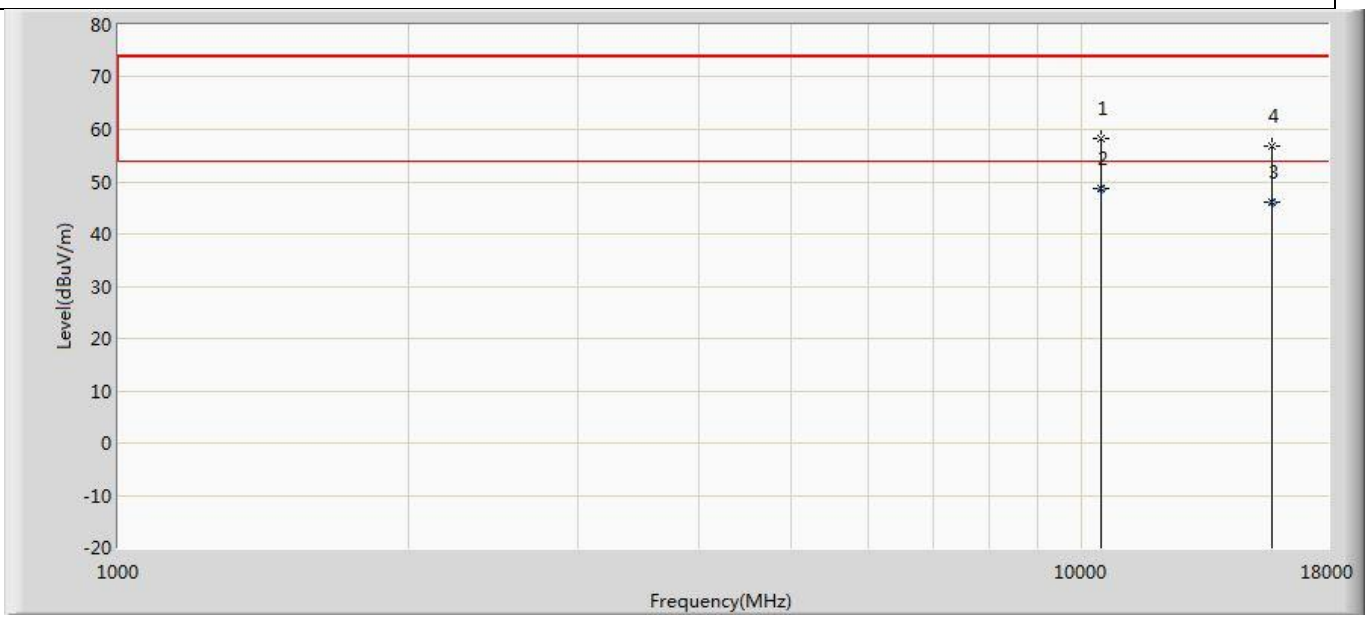
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10435.000	57.751	61.029	-16.249	74.000	-3.278	PK
2	*	10439.600	48.307	51.600	-5.693	54.000	-3.293	AV
3		15660.000	52.160	51.149	-21.840	74.000	1.011	PK

Profile: 2410570R	Page No.: 32
Engineer: PengchengYang	
Site: AC5	Time: 2024/02/03 - 11:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 1：Transmit at 5220MHz by 802.11a with Ant1	



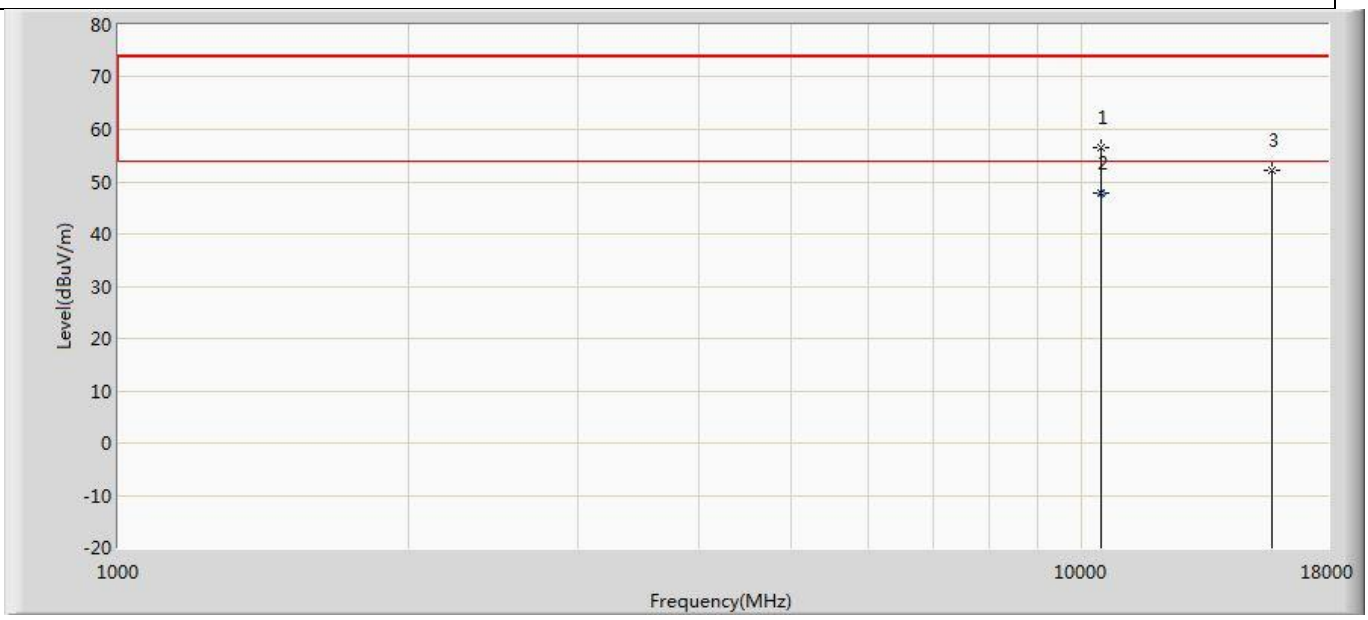
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10435.000	56.876	60.154	-17.124	74.000	-3.278	PK
2	*	10440.880	48.383	51.680	-5.617	54.000	-3.297	AV
3		15660.000	52.909	51.898	-21.091	74.000	1.011	PK

Profile: 2410570R	Page No.: 33
Engineer: PengchengYang	
Site: AC5	Time: 2024/02/03 - 11:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 1：Transmit at 5240MHz by 802.11a with Ant1	



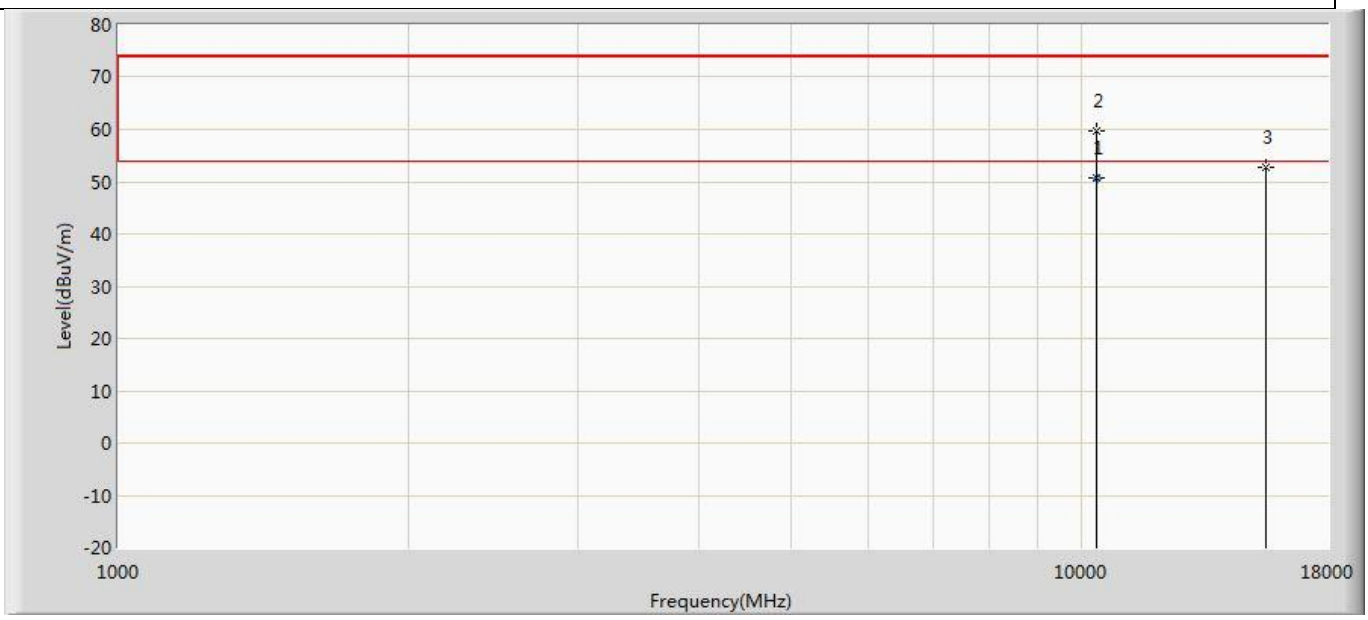
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10469.000	58.328	61.677	-15.672	74.000	-3.349	PK
2	*	10480.720	48.766	52.040	-5.234	54.000	-3.274	AV
3		15721.440	46.217	44.680	-7.783	54.000	1.537	AV
4		15722.000	56.863	55.319	-17.137	74.000	1.544	PK

Profile: 2410570R	Page No.: 34
Engineer: PengchengYang	
Site: AC5	Time: 2024/02/03 - 11:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 1：Transmit at 5240MHz by 802.11a with Ant1	



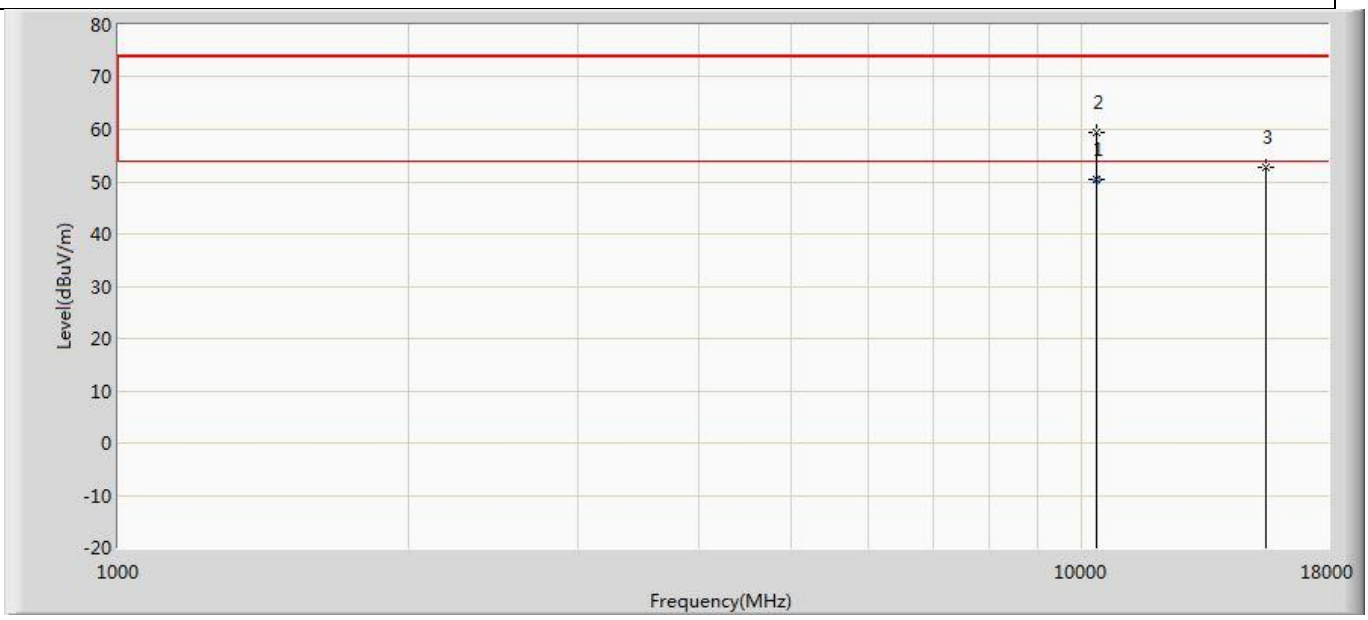
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10469.000	56.516	59.865	-17.484	74.000	-3.349	PK
2	*	10480.720	47.966	51.240	-6.034	54.000	-3.274	AV
3		15720.000	52.182	50.662	-21.818	74.000	1.520	PK

Profile: 2410570R	Page No.: 35
Engineer: PengchengYang	
Site: AC5	Time: 2024/02/03 - 11:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 2：Transmit at 5180MHz by 802.11n(20MHz) with Ant1	



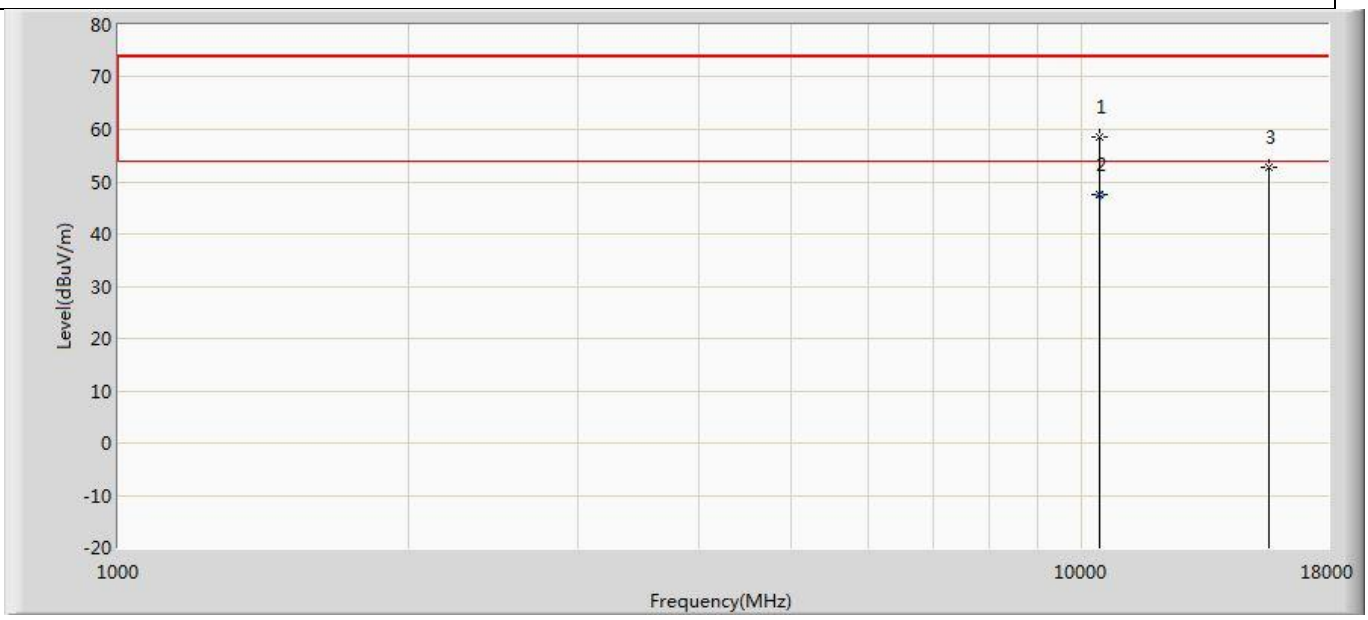
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10360.960	50.646	54.020	-3.354	54.000	-3.374	AV
2		10367.000	59.833	63.005	-14.167	74.000	-3.172	PK
3		15540.000	52.719	51.676	-21.281	74.000	1.043	PK

Profile: 2410570R	Page No.: 36
Engineer: PengchengYang	
Site: AC5	Time: 2024/02/03 - 11:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 2：Transmit at 5180MHz by 802.11n(20MHz) with Ant1	



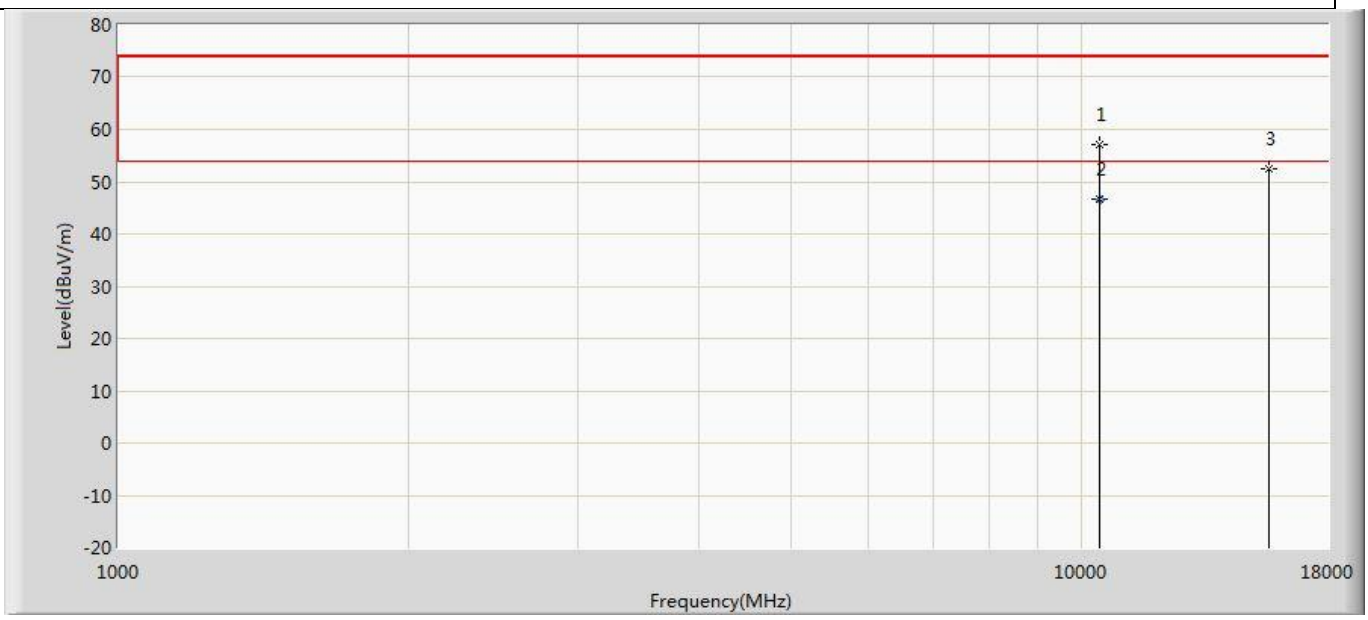
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10361.280	50.377	53.740	-3.623	54.000	-3.363	AV
2		10367.000	59.535	62.707	-14.465	74.000	-3.172	PK
3		15540.000	52.682	51.639	-21.318	74.000	1.043	PK

Profile: 2410570R	Page No.: 37
Engineer: PengchengYang	
Site: AC5	Time: 2024/02/03 - 11:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 2：Transmit at 5220MHz by 802.11n(20MHz) with Ant1	



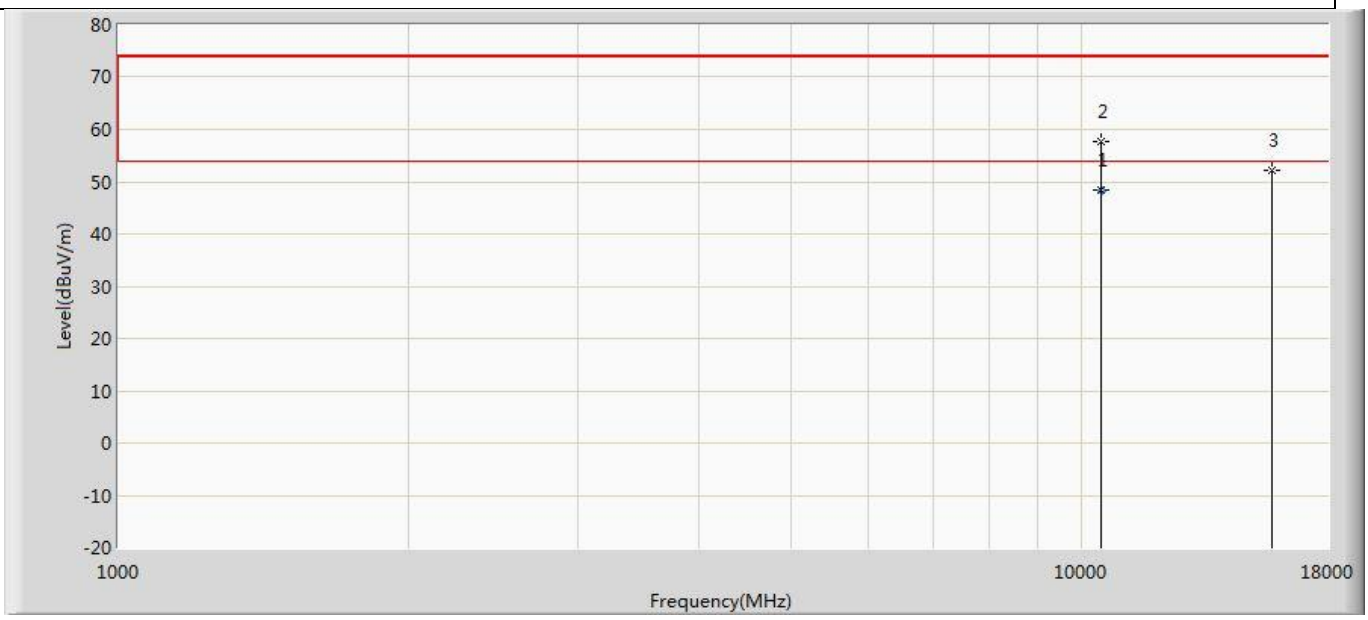
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10435.000	58.424	61.702	-15.576	74.000	-3.278	PK
2	*	10436.080	47.658	50.940	-6.342	54.000	-3.282	AV
3		15660.000	52.657	51.646	-21.343	74.000	1.011	PK

Profile: 2410570R	Page No.: 38
Engineer: PengchengYang	
Site: AC5	Time: 2024/02/03 - 11:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 2：Transmit at 5220MHz by 802.11n(20MHz) with Ant1	



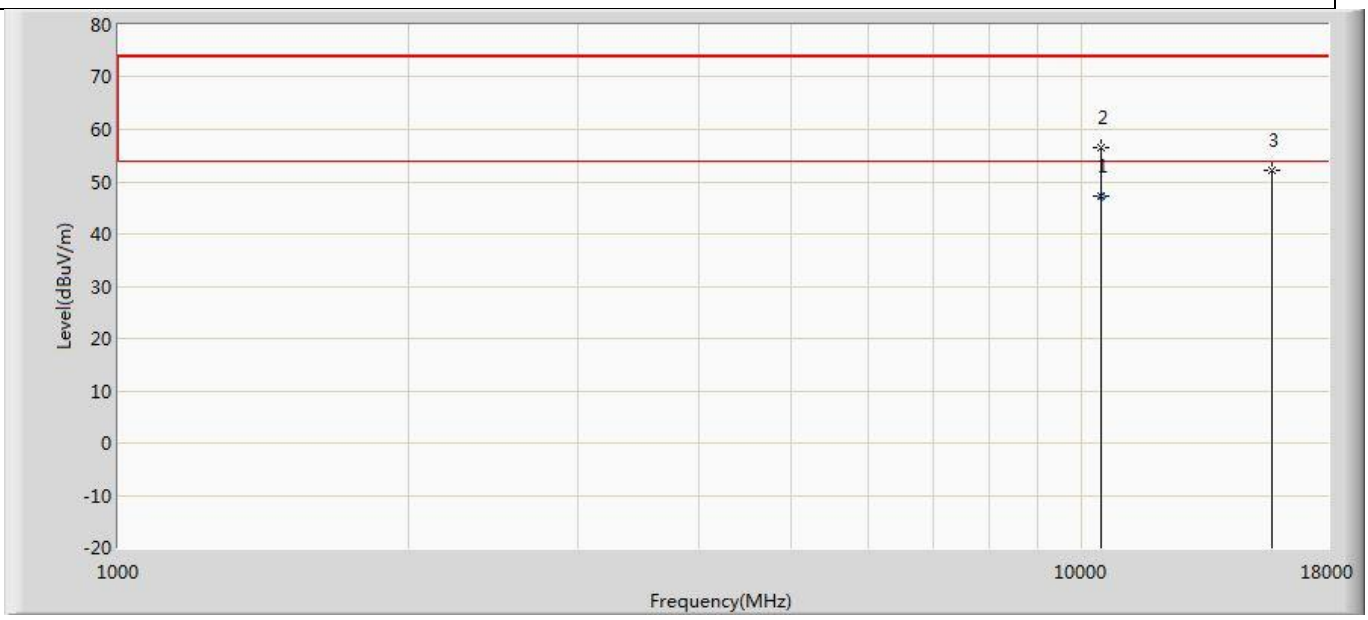
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10435.000	56.967	60.245	-17.033	74.000	-3.278	PK
2	*	10440.960	46.563	49.860	-7.437	54.000	-3.298	AV
3		15660.000	52.526	51.515	-21.474	74.000	1.011	PK

Profile: 2410570R	Page No.: 39
Engineer: PengchengYang	
Site: AC5	Time: 2024/02/03 - 11:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 2：Transmit at 5240MHz by 802.11n(20MHz) with Ant1	



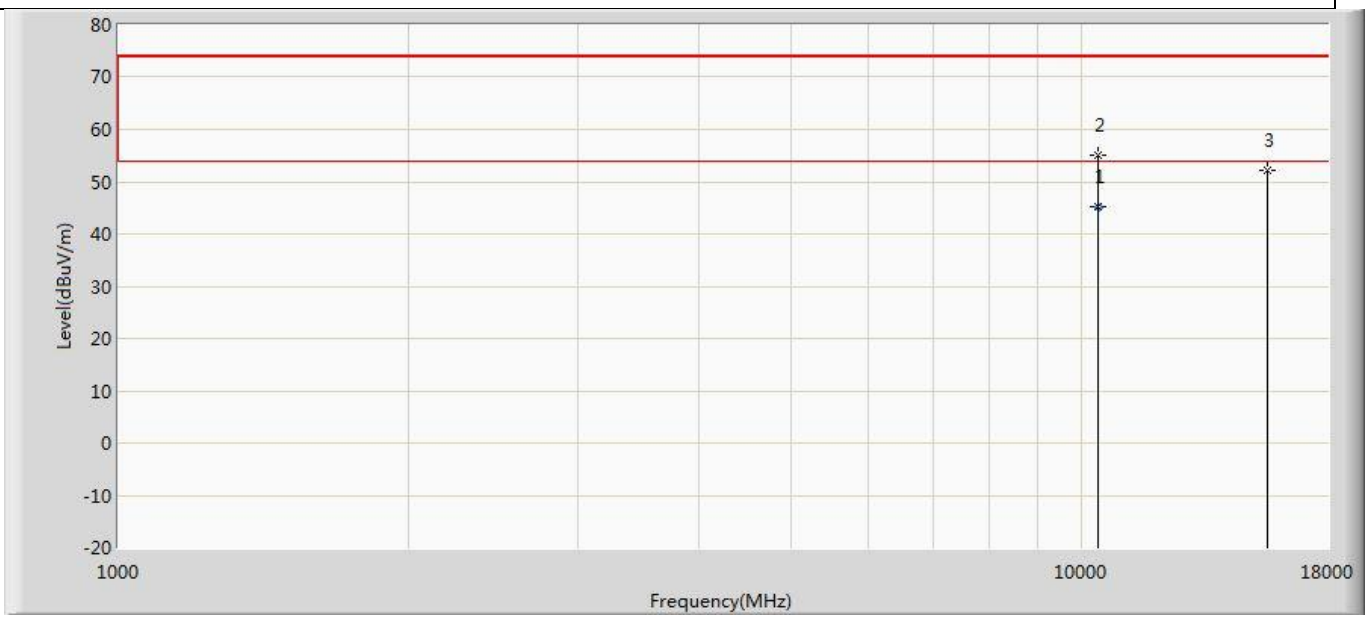
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10481.120	48.458	51.730	-5.542	54.000	-3.272	AV
2		10486.000	57.597	60.838	-16.403	74.000	-3.241	PK
3		15720.000	52.069	50.549	-21.931	74.000	1.520	PK

Profile: 2410570R	Page No.: 40
Engineer: PengchengYang	
Site: AC5	Time: 2024/02/03 - 11:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 2：Transmit at 5240MHz by 802.11n(20MHz) with Ant1	



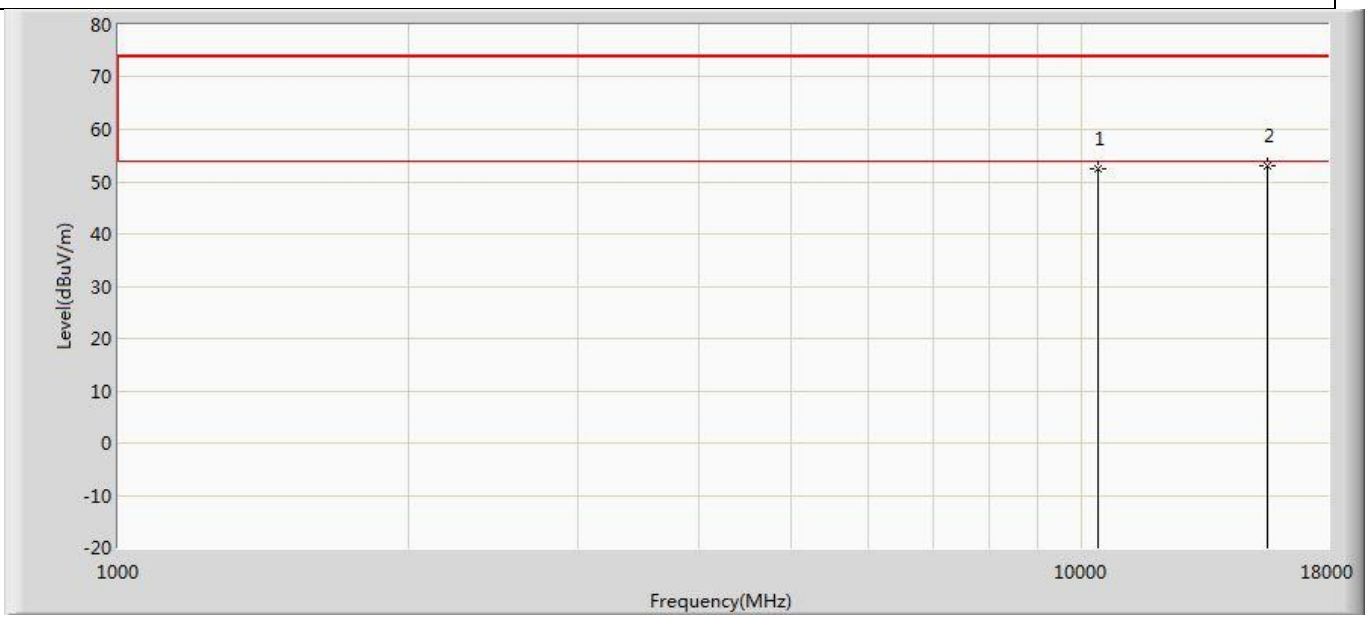
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10480.880	47.137	50.410	-6.863	54.000	-3.273	AV
2		10486.000	56.619	59.860	-17.381	74.000	-3.241	PK
3		15720.000	52.034	50.514	-21.966	74.000	1.520	PK

Profile: 2410570R	Page No.: 41
Engineer: PengchengYang	
Site: AC5	Time: 2024/02/03 - 11:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 3：Transmit at 5190MHz by 802.11n(40MHz) with Ant1	



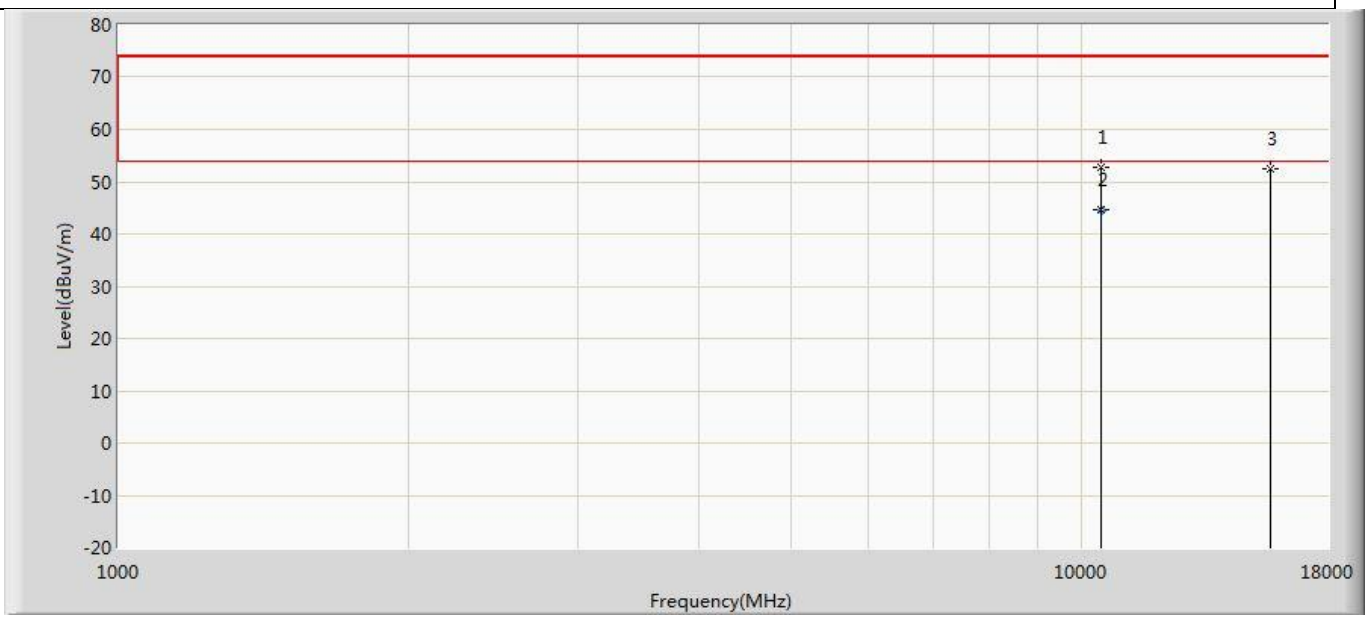
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10378.480	45.169	48.370	-8.831	54.000	-3.201	AV
2		10384.000	54.980	58.195	-19.020	74.000	-3.215	PK
3		15570.000	52.075	51.781	-21.925	74.000	0.294	PK

Profile: 2410570R	Page No.: 42
Engineer: PengchengYang	
Site: AC5	Time: 2024/02/03 - 11:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 3：Transmit at 5190MHz by 802.11n(40MHz) with Ant1	



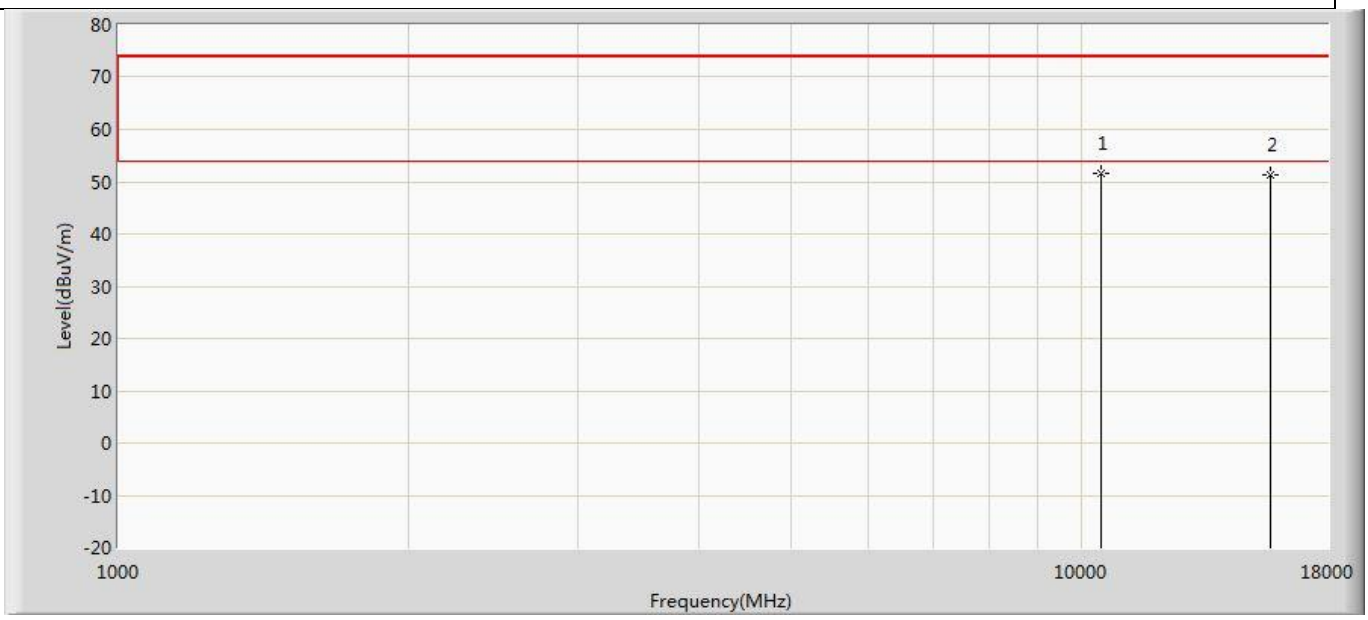
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10384.000	52.390	55.605	-21.610	74.000	-3.215	PK
2	*	15570.000	52.914	52.620	-21.086	74.000	0.294	PK

Profile: 2410570R	Page No.: 43
Engineer: PengchengYang	
Site: AC5	Time: 2024/02/03 - 11:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 3：Transmit at 5230MHz by 802.11n(40MHz) with Ant1	



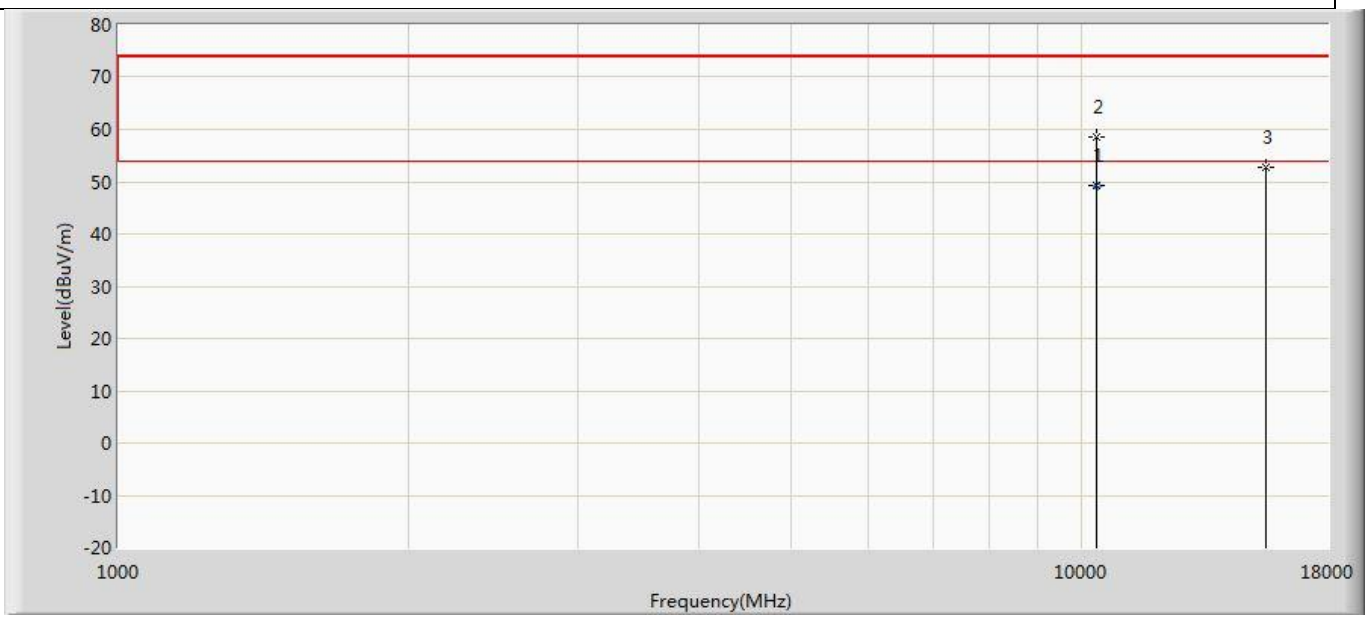
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10452.000	52.861	56.194	-21.139	74.000	-3.333	PK
2	*	10458.160	44.618	47.957	-9.382	54.000	-3.338	AV
3		15690.000	52.369	52.093	-21.631	74.000	0.276	PK

Profile: 2410570R	Page No.: 44
Engineer: PengchengYang	
Site: AC5	Time: 2024/02/03 - 11:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 3：Transmit at 5230MHz by 802.11n(40MHz) with Ant1	



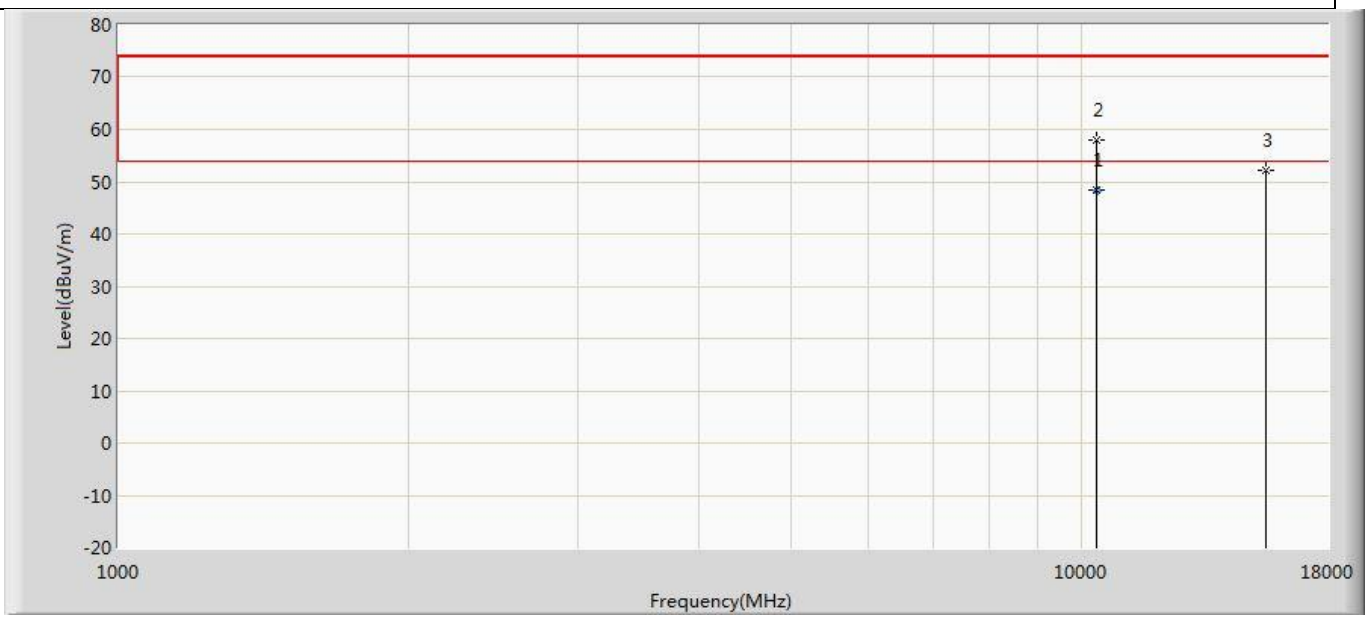
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10460.000	51.564	54.904	-22.436	74.000	-3.341	PK
2		15690.000	51.273	50.997	-22.727	74.000	0.276	PK

Profile: 2410570R	Page No.: 45
Engineer: PengchengYang	
Site: AC5	Time: 2024/02/03 - 11:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 4：Transmit at 5180MHz by 802.11ac(20MHz) with Ant1	



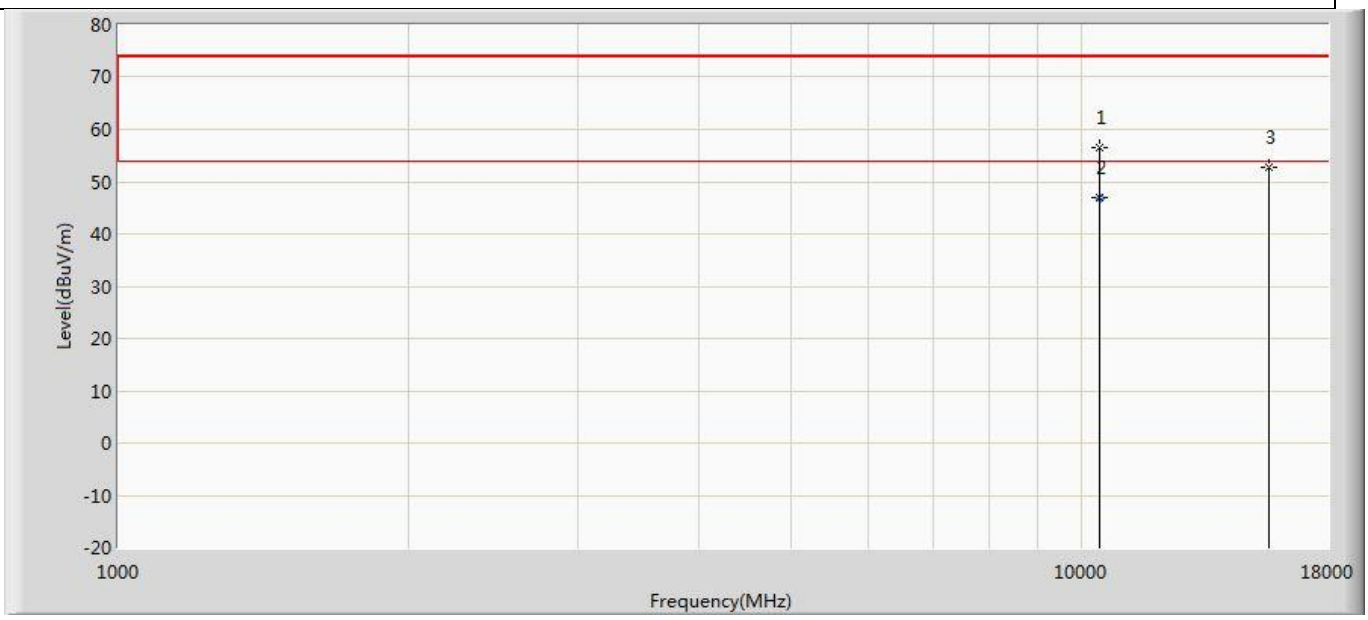
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10358.880	49.157	52.600	-4.843	54.000	-3.443	AV
2		10367.000	58.604	61.776	-15.396	74.000	-3.172	PK
3		15540.000	52.710	51.667	-21.290	74.000	1.043	PK

Profile: 2410570R	Page No.: 46
Engineer: PengchengYang	
Site: AC5	Time: 2024/02/03 - 11:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 4：Transmit at 5180MHz by 802.11ac(20MHz) with Ant1	



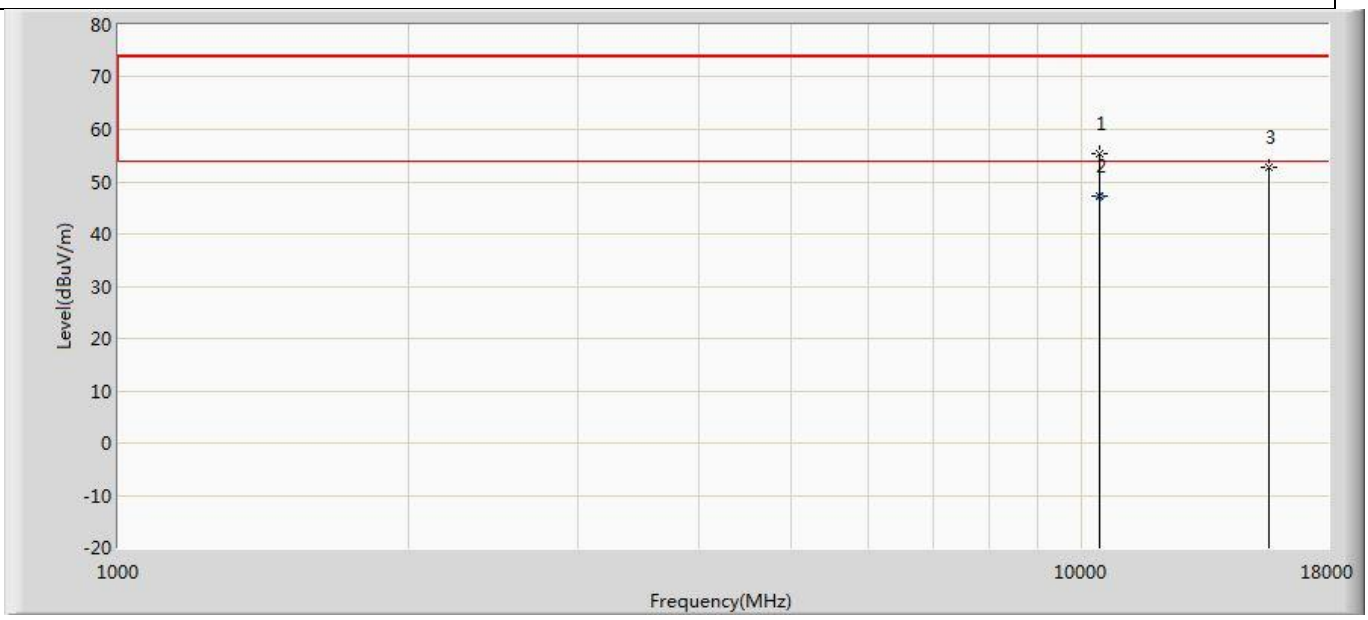
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10358.560	48.416	51.870	-5.584	54.000	-3.454	AV
2		10367.000	57.972	61.144	-16.028	74.000	-3.172	PK
3		15540.000	52.282	51.239	-21.718	74.000	1.043	PK

Profile: 2410570R	Page No.: 47
Engineer: PengchengYang	
Site: AC5	Time: 2024/02/03 - 11:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 4：Transmit at 5220MHz by 802.11ac(20MHz) with Ant1	



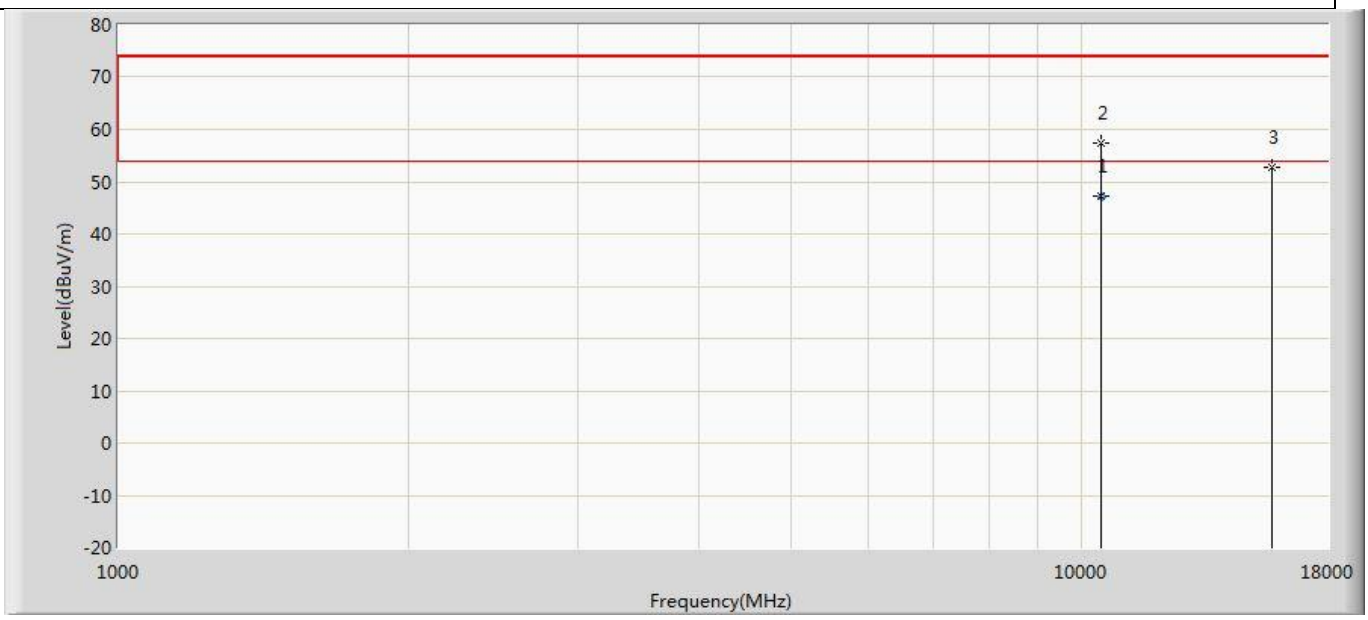
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10435.000	56.502	59.780	-17.498	74.000	-3.278	PK
2	*	10438.640	46.940	50.230	-7.060	54.000	-3.290	AV
3		15660.000	52.661	51.650	-21.339	74.000	1.011	PK

Profile: 2410570R	Page No.: 48
Engineer: PengchengYang	
Site: AC5	Time: 2024/02/03 - 11:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 4：Transmit at 5220MHz by 802.11ac(20MHz) with Ant1	



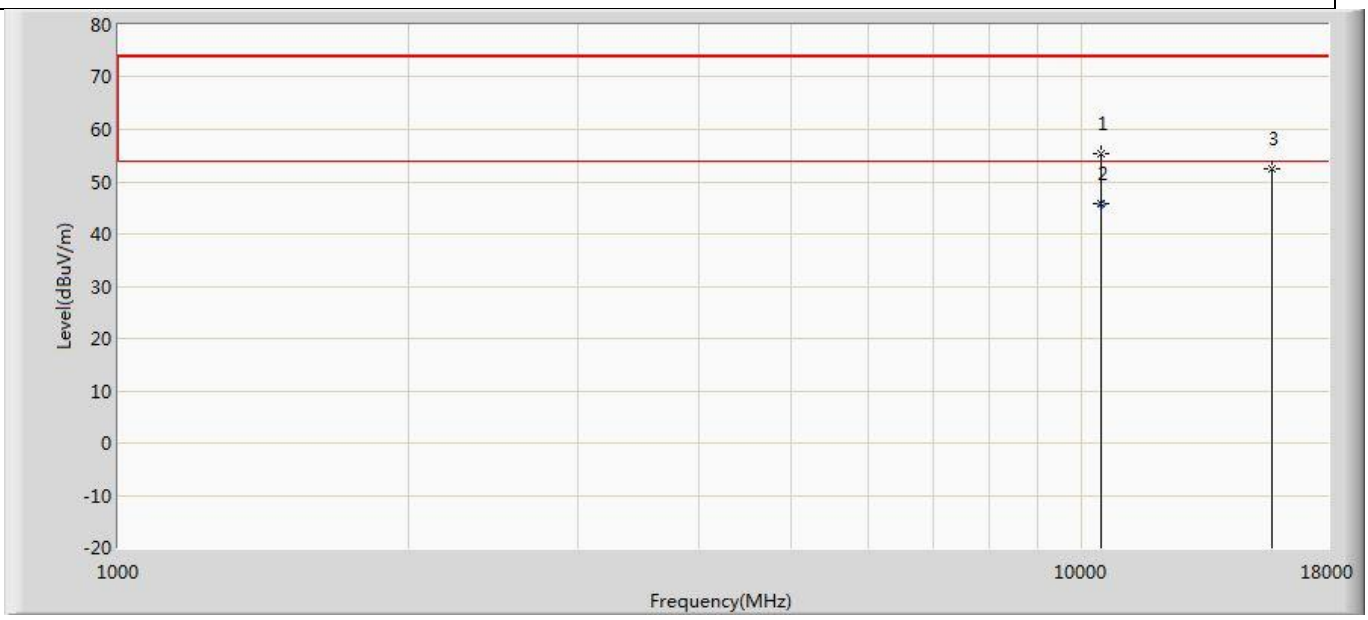
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10435.000	55.506	58.784	-18.494	74.000	-3.278	PK
2	*	10438.400	47.171	50.460	-6.829	54.000	-3.289	AV
3		15660.000	52.670	51.659	-21.330	74.000	1.011	PK

Profile: 2410570R	Page No.: 49
Engineer: PengchengYang	
Site: AC5	Time: 2024/02/03 - 11:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 4：Transmit at 5240MHz by 802.11ac(20MHz) with Ant1	



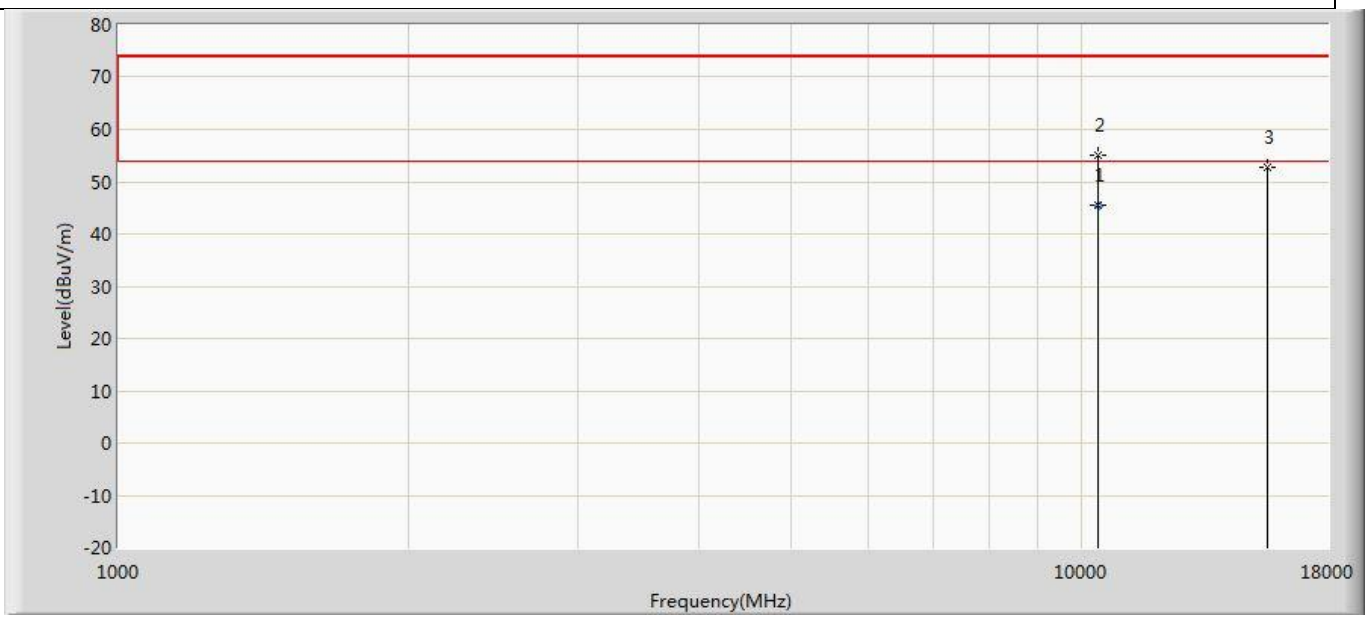
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10478.640	47.253	50.540	-6.747	54.000	-3.288	AV
2		10486.000	57.491	60.732	-16.509	74.000	-3.241	PK
3		15720.000	52.703	51.183	-21.297	74.000	1.520	PK

Profile: 2410570R	Page No.: 50
Engineer: PengchengYang	
Site: AC5	Time: 2024/02/03 - 11:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 4：Transmit at 5240MHz by 802.11ac(20MHz) with Ant1	



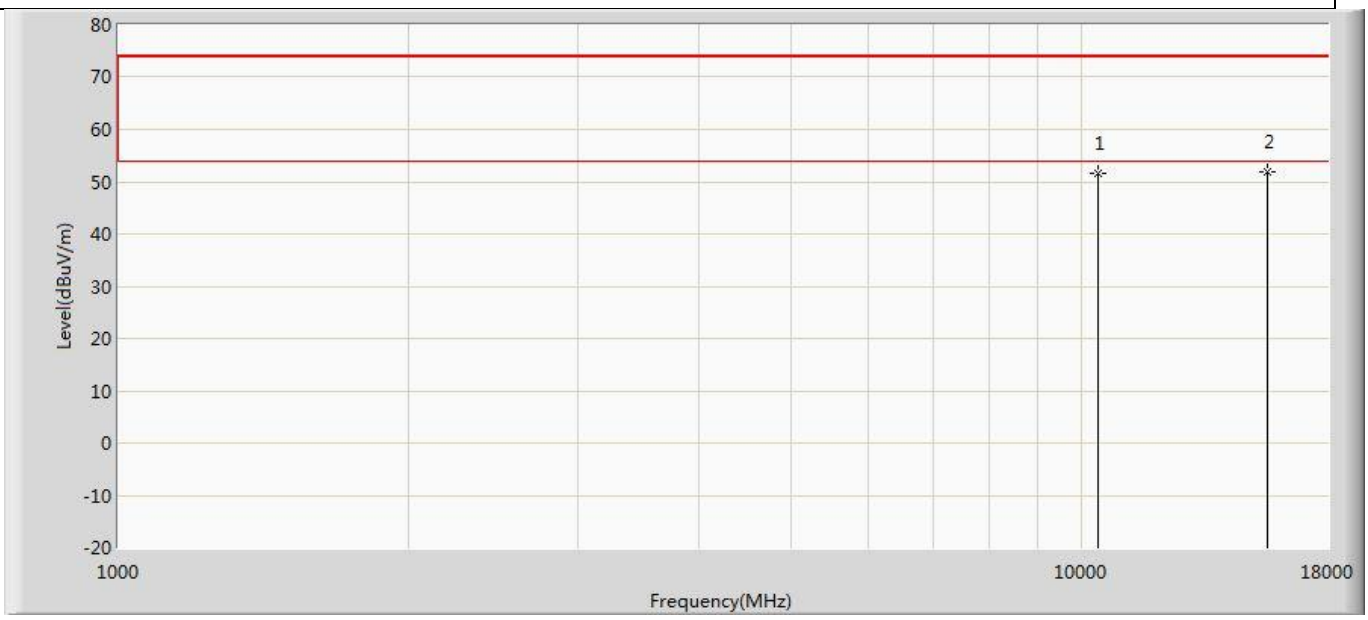
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10469.000	55.360	58.709	-18.640	74.000	-3.349	PK
2	*	10478.800	45.864	49.150	-8.136	54.000	-3.287	AV
3		15720.000	52.547	51.027	-21.453	74.000	1.520	PK

Profile: 2410570R	Page No.: 51
Engineer: PengchengYang	
Site: AC5	Time: 2024/02/03 - 11:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 5：Transmit at 5190MHz by 802.11ac(40MHz) with Ant1	



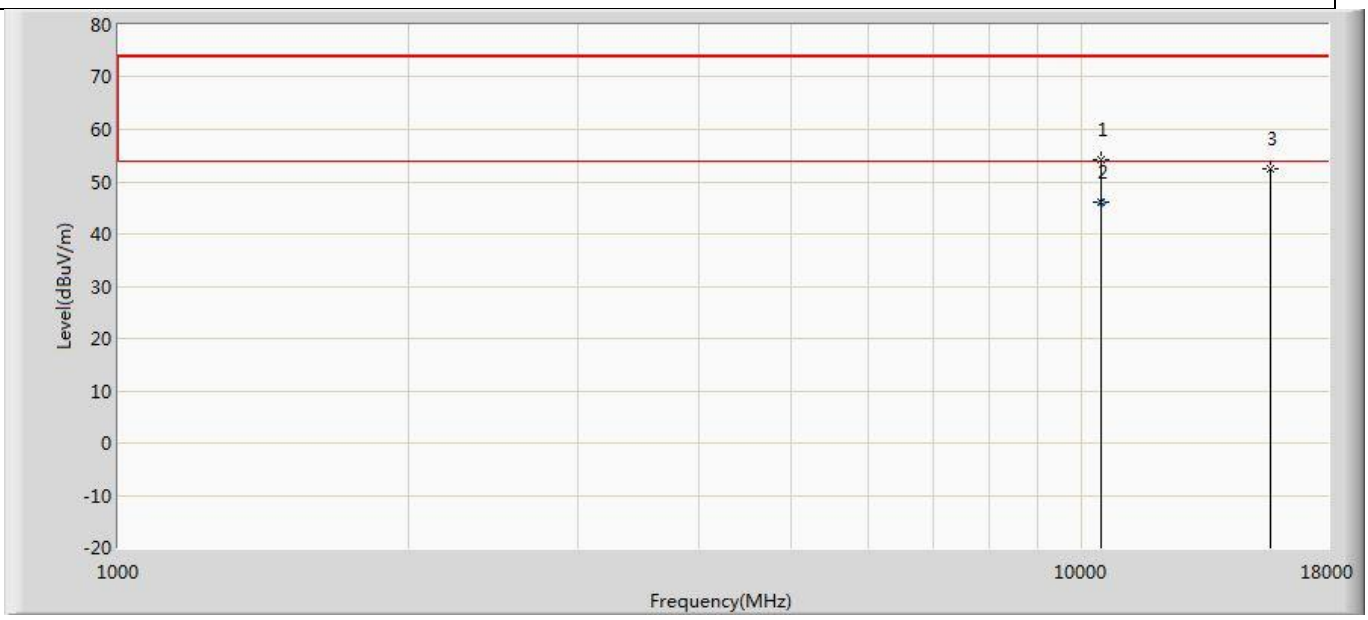
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10378.800	45.388	48.590	-8.612	54.000	-3.202	AV
2		10384.000	54.995	58.210	-19.005	74.000	-3.215	PK
3		15570.000	52.704	52.410	-21.296	74.000	0.294	PK

Profile: 2410570R	Page No.: 52
Engineer: PengchengYang	
Site: AC5	Time: 2024/02/03 - 11:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 5：Transmit at 5190MHz by 802.11ac(40MHz) with Ant1	



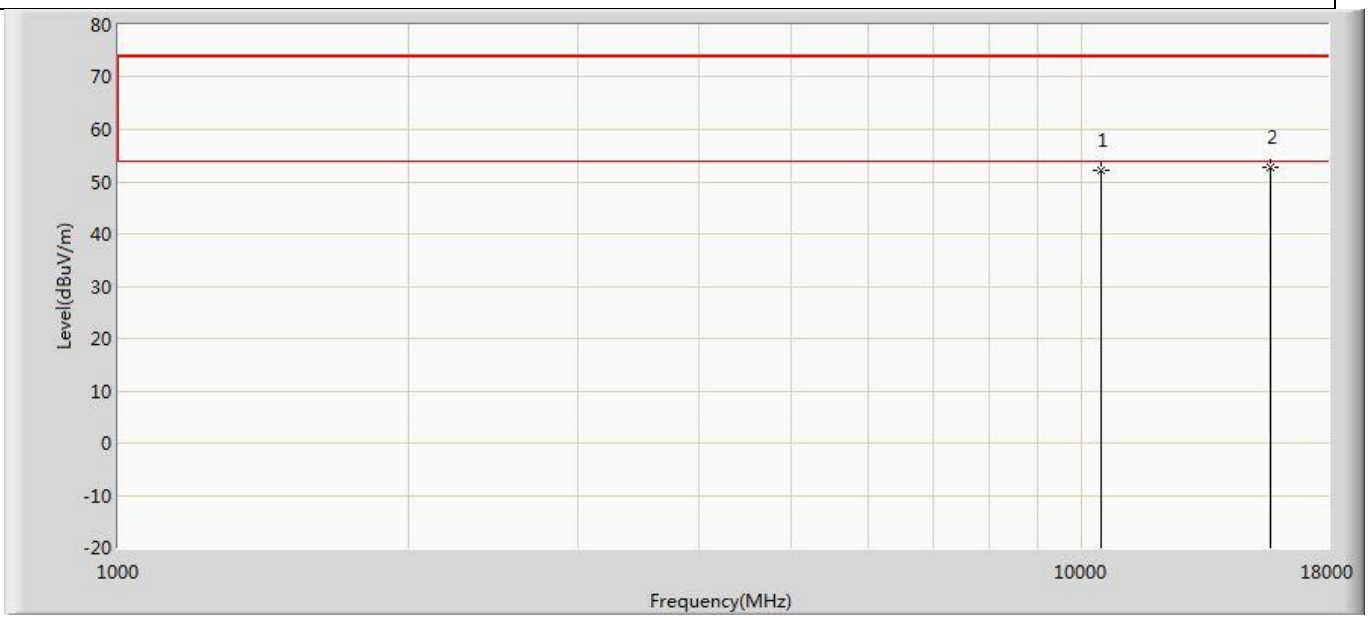
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10380.000	51.695	54.900	-22.305	74.000	-3.205	PK
2	*	15570.000	51.988	51.694	-22.012	74.000	0.294	PK

Profile: 2410570R	Page No.: 53
Engineer: PengchengYang	
Site: AC5	Time: 2024/02/03 - 11:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 5：Transmit at 5230MHz by 802.11ac(40MHz) with Ant1	



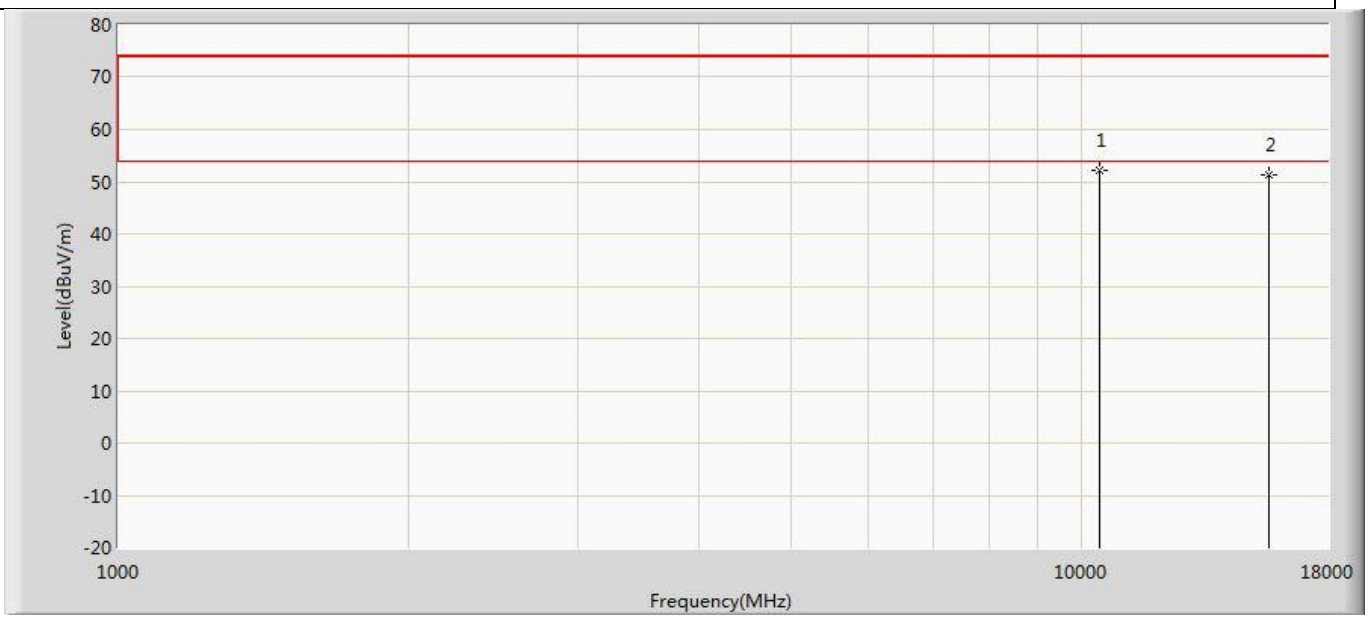
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10469.000	54.192	57.541	-19.808	74.000	-3.349	PK
2	*	10478.590	46.082	49.370	-7.918	54.000	-3.288	AV
3		15690.000	52.561	52.285	-21.439	74.000	0.276	PK

Profile: 2410570R	Page No.: 54
Engineer: PengchengYang	
Site: AC5	Time: 2024/02/03 - 11:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 5：Transmit at 5230MHz by 802.11ac(40MHz) with Ant1	



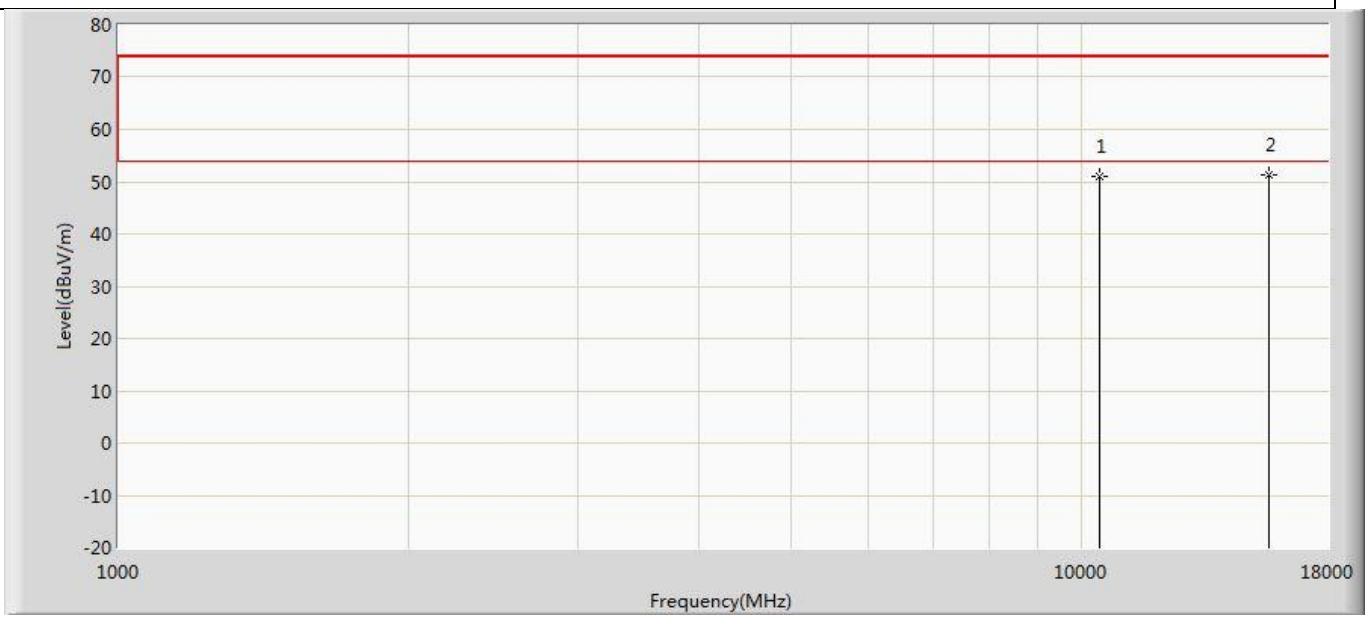
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10460.000	52.265	55.605	-21.735	74.000	-3.341	PK
2	*	15690.000	52.792	52.516	-21.208	74.000	0.276	PK

Profile: 2410570R	Page No.: 55
Engineer: PengchengYang	
Site: AC5	Time: 2024/02/03 - 11:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 6：Transmit at 5210MHz by 802.11ac(80MHz) with Ant1	



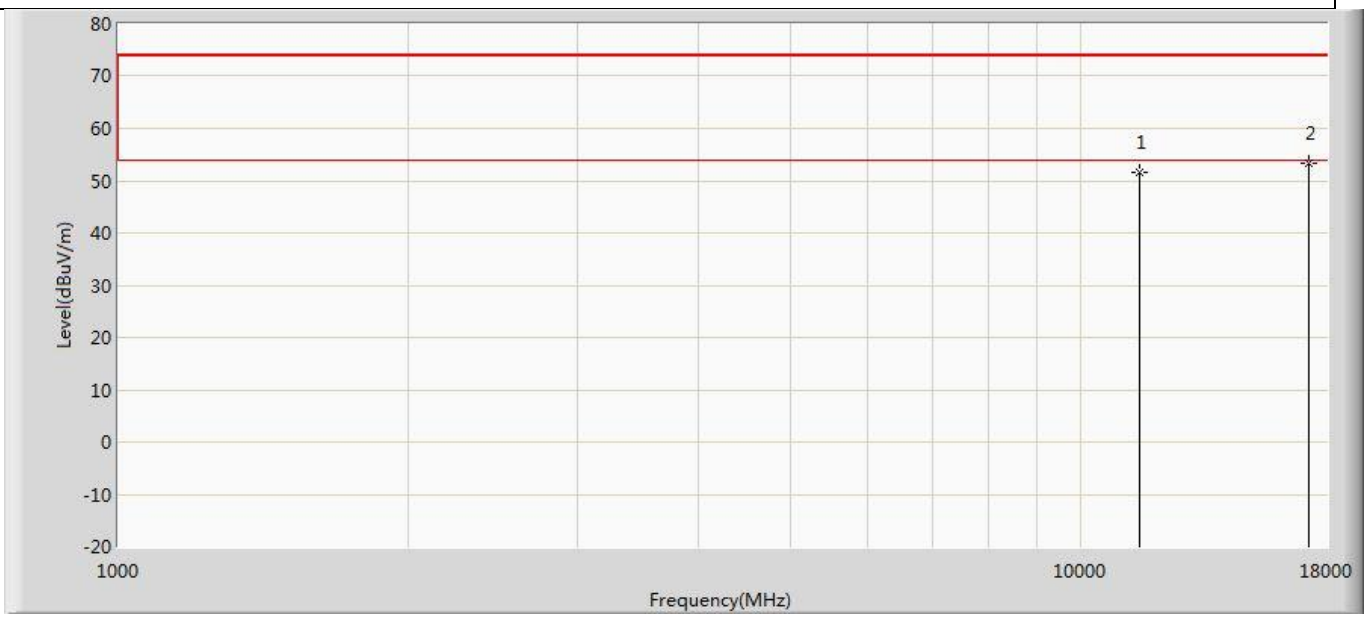
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	10420.000	52.113	55.109	-21.887	74.000	-2.996	PK
2		15630.000	51.351	50.119	-22.649	74.000	1.232	PK

Profile: 2410570R	Page No.: 56
Engineer: PengchengYang	
Site: AC5	Time: 2024/02/03 - 11:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 6：Transmit at 5210MHz by 802.11ac(80MHz) with Ant1	



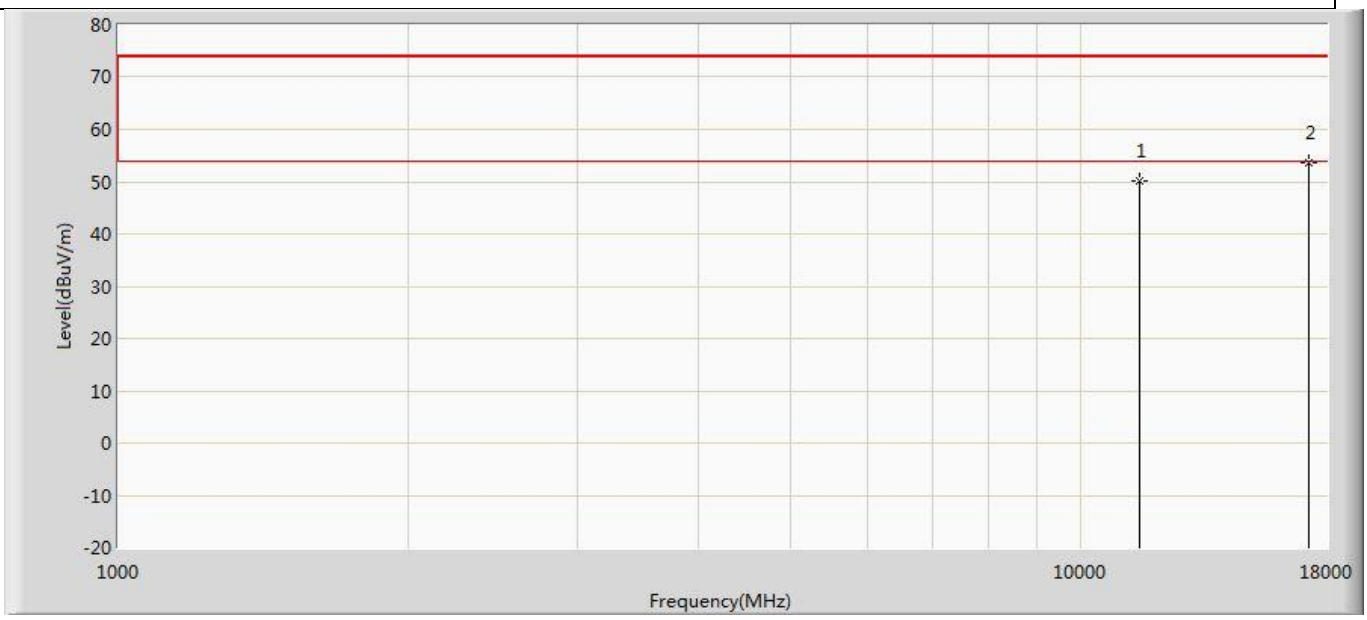
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		10420.000	50.956	53.952	-23.044	74.000	-2.996	PK
2	*	15630.000	51.378	50.146	-22.622	74.000	1.232	PK

Profile: 2410570R	Page No.: 29
Engineer: Yuliu	
Site: AC5	Time: 2024/02/05 - 22:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 1：Transmit at 5745MHz by 802.11a with ant1	



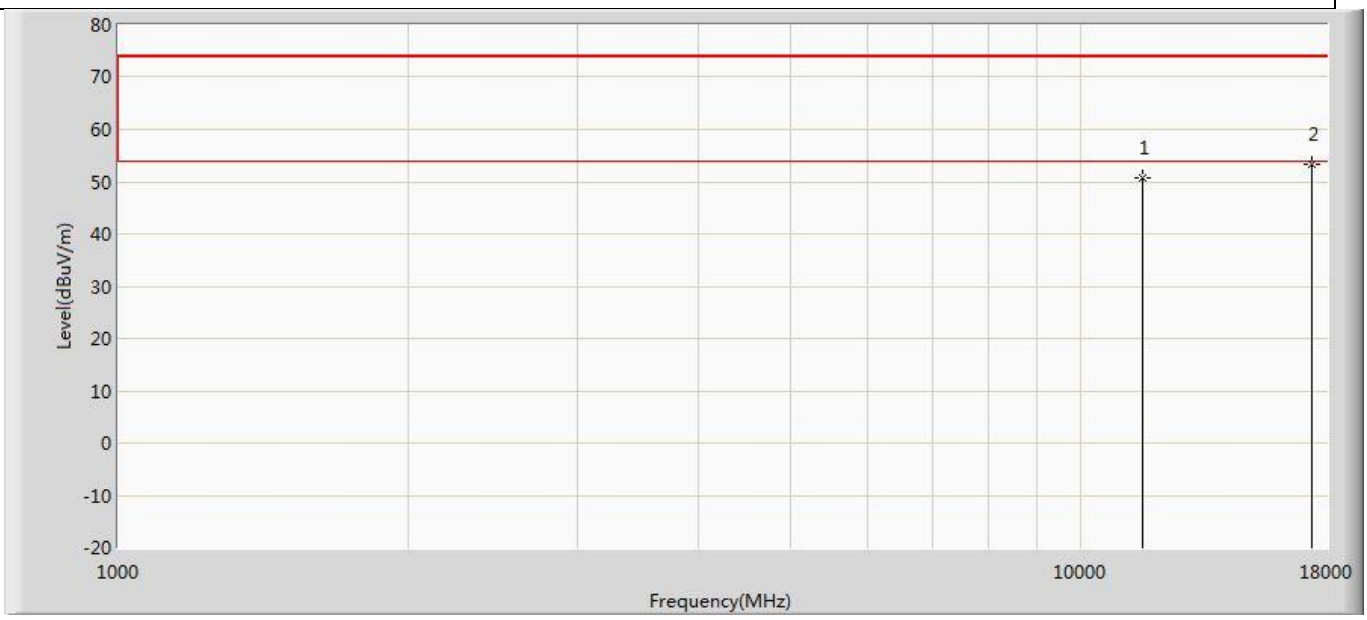
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11490.000	51.552	52.076	-22.448	74.000	-0.524	PK
2	*	17235.000	53.210	47.773	-20.790	74.000	5.437	PK

Profile: 2410570R	Page No.: 30
Engineer: Yuliu	
Site: AC5	Time: 2024/02/05 - 22:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: #2	Power: AC 120V/60Hz
Note: Mode 1：Transmit at 5745MHz by 802.11a with ant1	



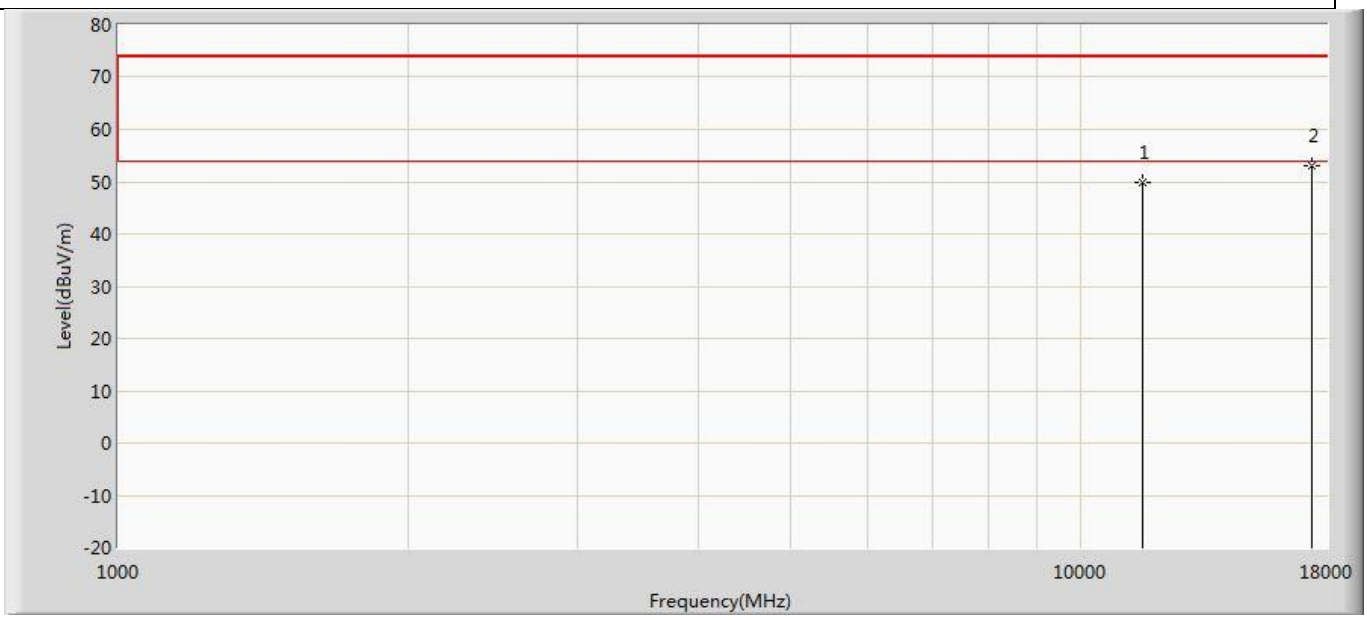
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11490.000	50.222	50.746	-23.778	74.000	-0.524	PK
2	*	17235.000	53.497	48.060	-20.503	74.000	5.437	PK

Profile: 2410570R	Page No.: 31
Engineer: Yuliu	
Site: AC5	Time: 2024/02/05 - 22:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 1：Transmit at 5785MHz by 802.11a with ant1	



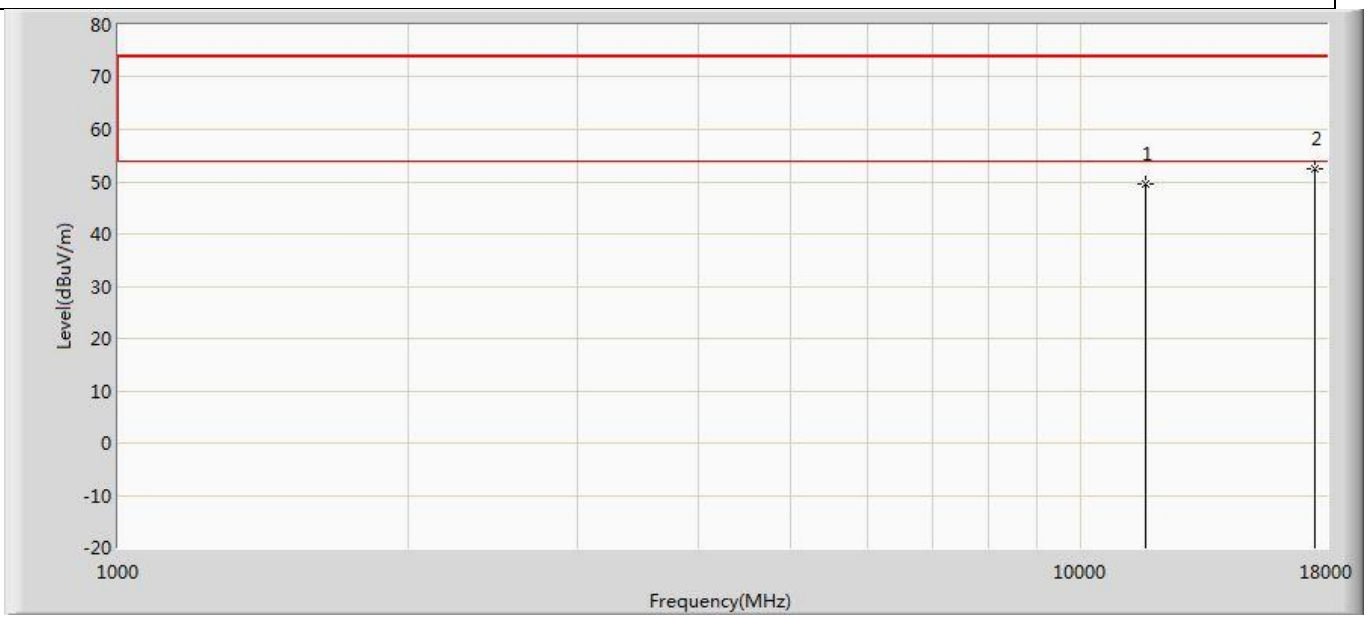
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11570.000	50.605	51.794	-23.395	74.000	-1.189	PK
2	*	17355.000	53.456	48.994	-20.544	74.000	4.461	PK

Profile: 2410570R	Page No.: 32
Engineer: Yuliu	
Site: AC5	Time: 2024/02/05 - 22:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 1：Transmit at 5785MHz by 802.11a with ant1	



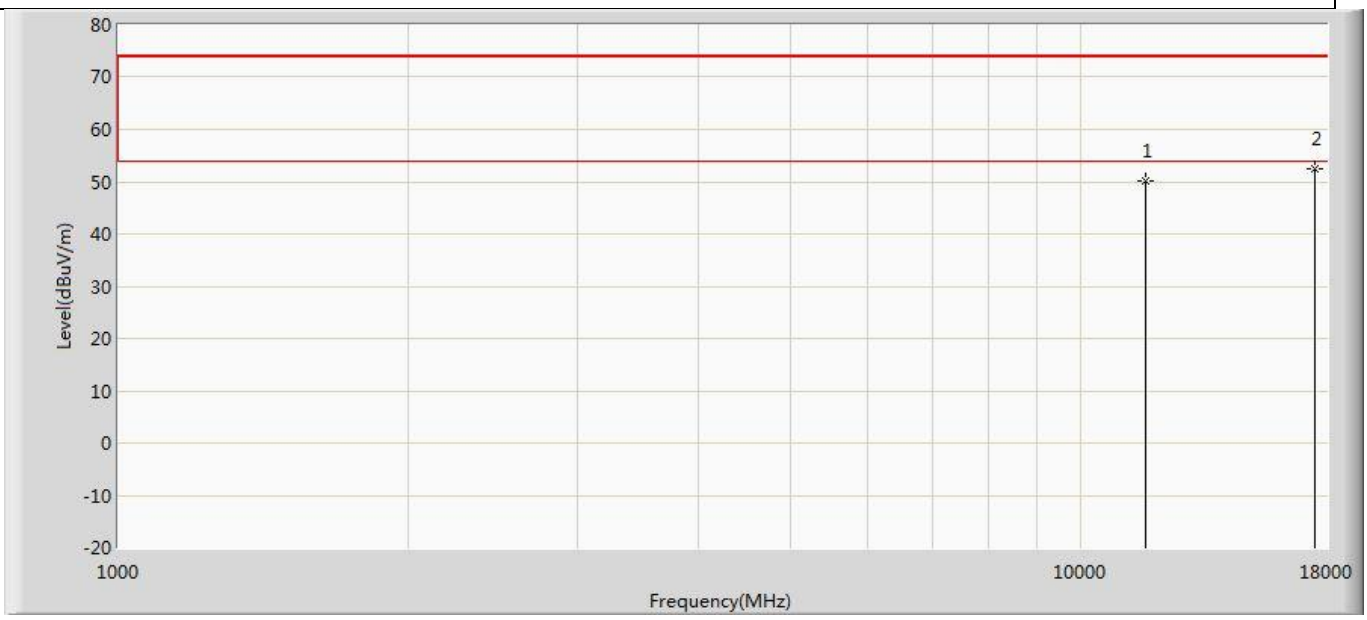
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11570.000	49.828	51.017	-24.172	74.000	-1.189	PK
2	*	17355.000	53.119	48.657	-20.881	74.000	4.461	PK

Profile: 2410570R	Page No.: 33
Engineer: Yuliu	
Site: AC5	Time: 2024/02/05 - 22:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 1：Transmit at 5825MHz by 802.11a with ant1	



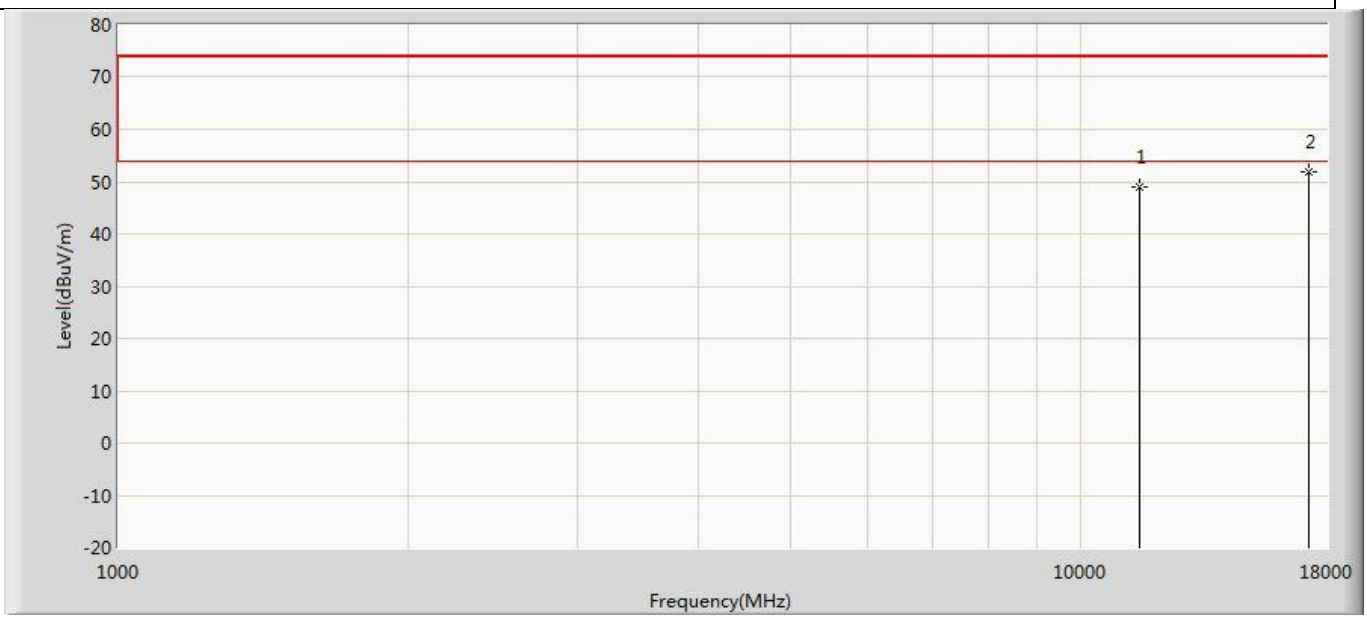
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11650.000	49.474	51.150	-24.526	74.000	-1.676	PK
2	*	17475.000	52.488	48.294	-21.512	74.000	4.195	PK

Profile: 2410570R	Page No.: 34
Engineer: Yuliu	
Site: AC5	Time: 2024/02/05 - 22:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 1：Transmit at 5825MHz by 802.11a with ant1	



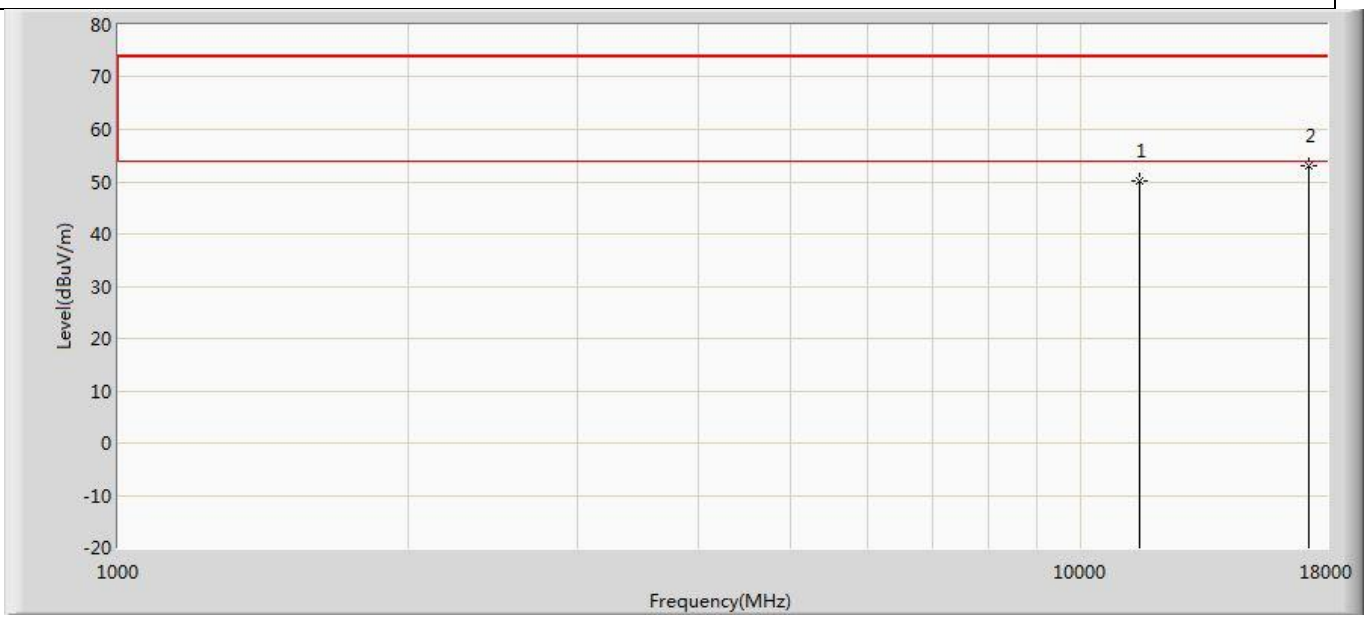
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11650.000	50.098	51.774	-23.902	74.000	-1.676	PK
2	*	17475.000	52.469	48.275	-21.531	74.000	4.195	PK

Profile: 2410570R	Page No.: 35
Engineer: Yuliu	
Site: AC5	Time: 2024/02/05 - 22:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 2：Transmit at 5745MHz by 802.11n(20MHz) with ant1	



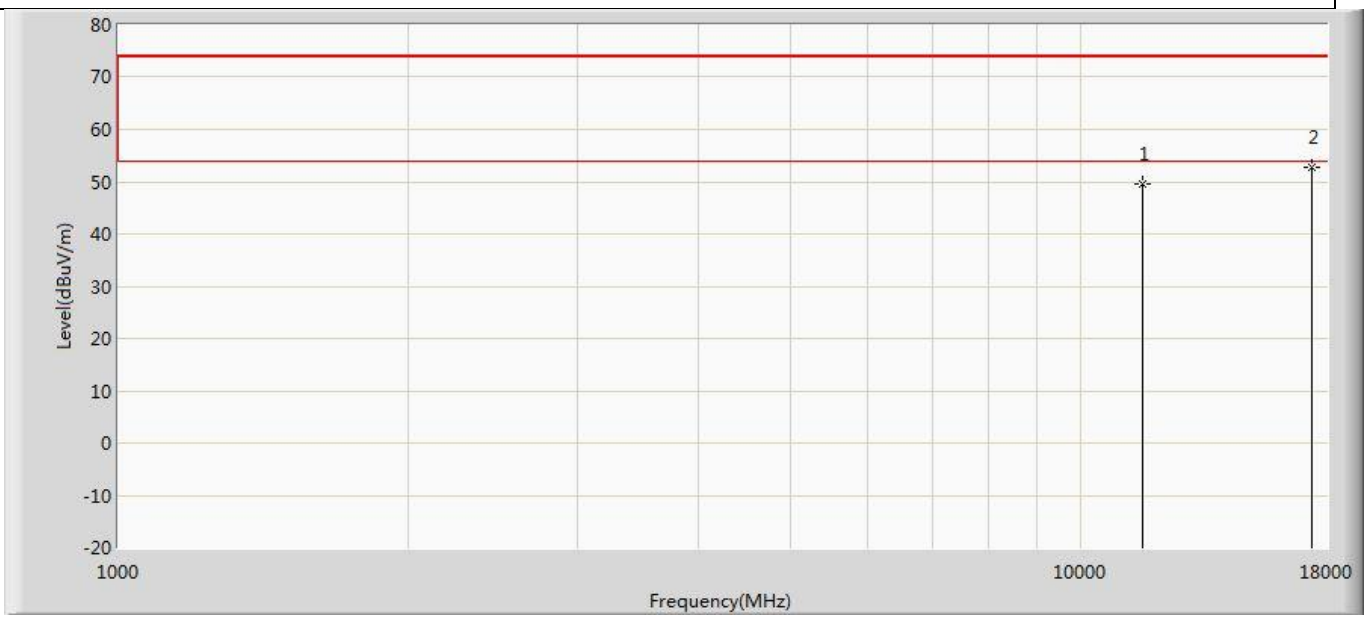
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11490.000	48.918	49.442	-25.082	74.000	-0.524	PK
2	*	17235.000	52.009	46.572	-21.991	74.000	5.437	PK

Profile: 2410570R	Page No.: 36
Engineer: Yuliu	
Site: AC5	Time: 2024/02/05 - 22:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 2：Transmit at 5745MHz by 802.11n(20MHz) with ant1	



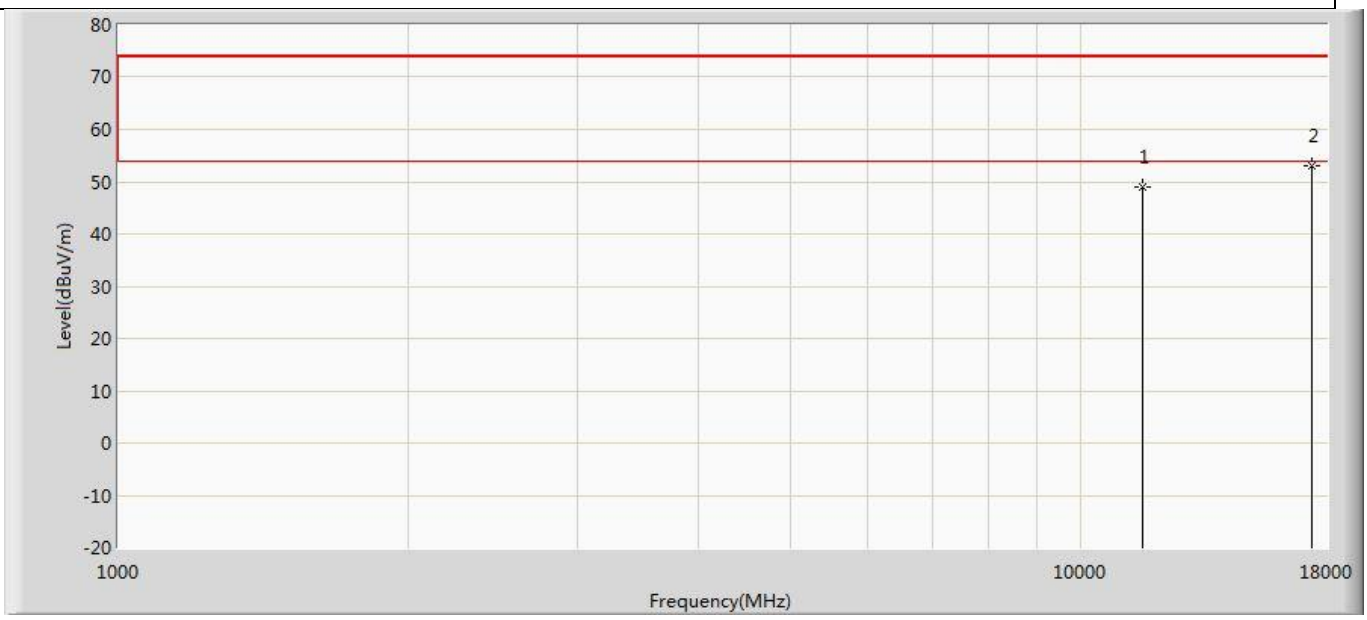
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11490.000	50.004	50.528	-23.996	74.000	-0.524	PK
2	*	17235.000	52.947	47.510	-21.053	74.000	5.437	PK

Profile: 2410570R	Page No.: 37
Engineer: Yuliu	
Site: AC5	Time: 2024/02/05 - 22:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 2：Transmit at 5785MHz by 802.11n(20MHz) with ant1	



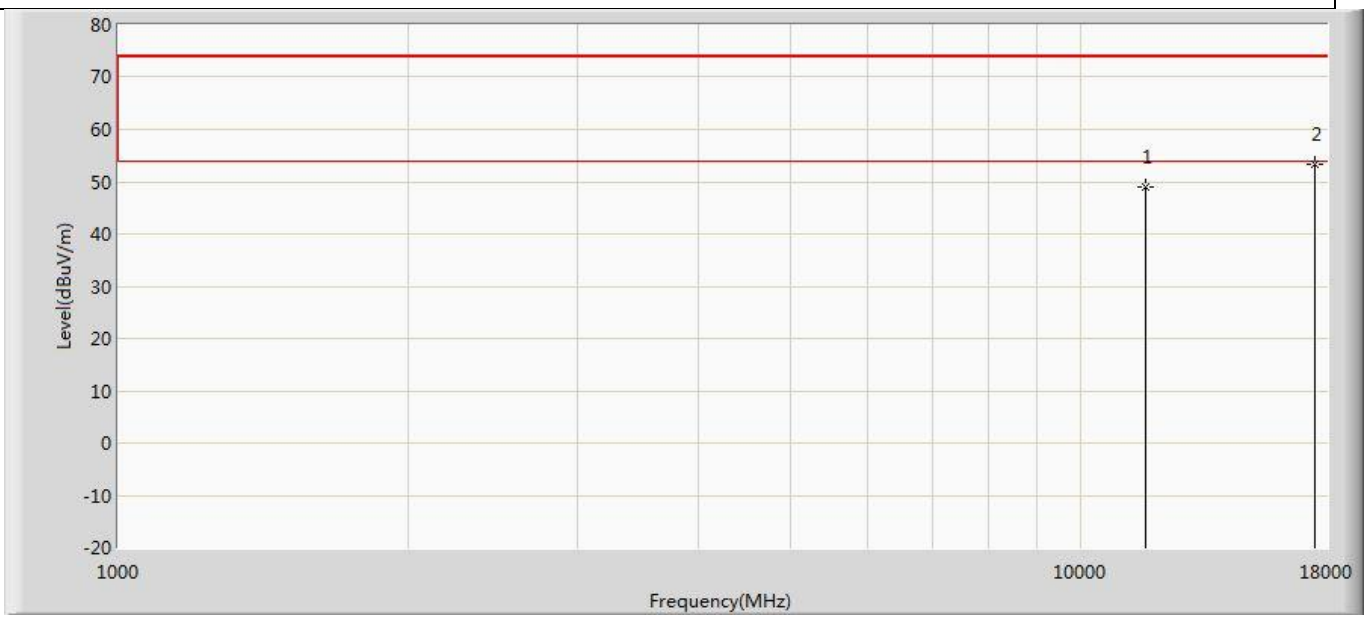
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11570.000	49.701	50.890	-24.299	74.000	-1.189	PK
2	*	17355.000	52.843	48.381	-21.157	74.000	4.461	PK

Profile: 2410570R	Page No.: 38
Engineer: Yuliu	
Site: AC5	Time: 2024/02/05 - 22:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 2：Transmit at 5785MHz by 802.11n(20MHz) with ant1	



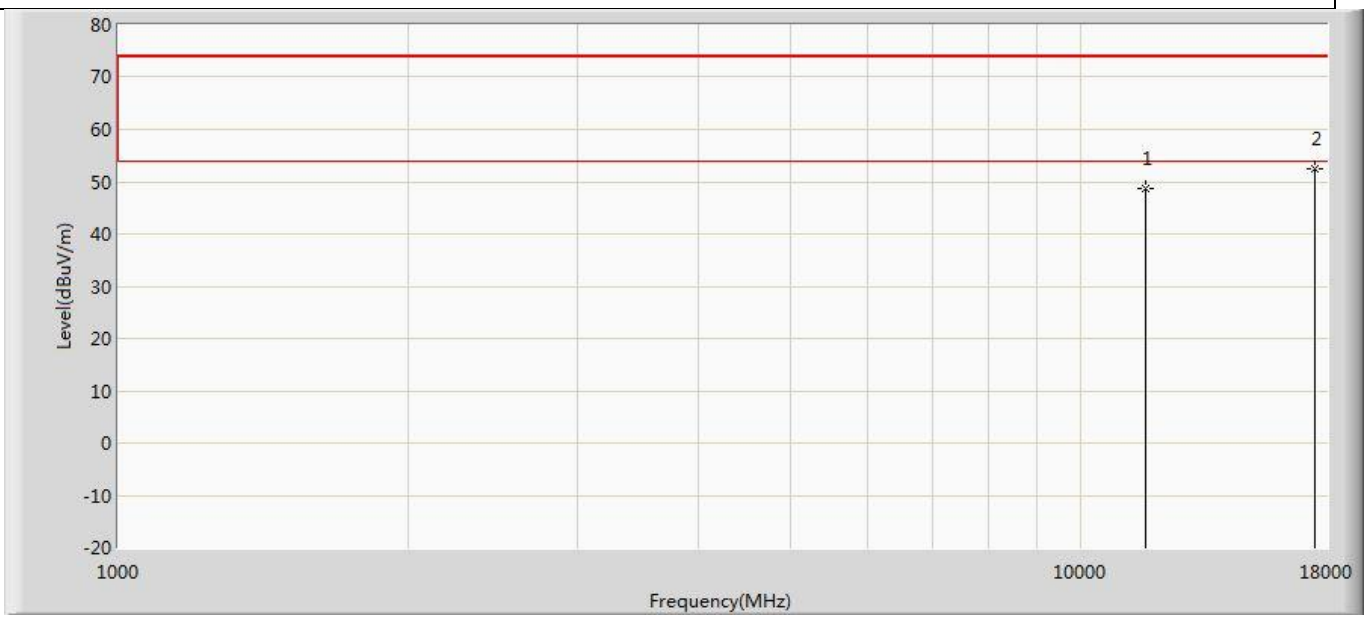
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11570.000	49.041	50.230	-24.959	74.000	-1.189	PK
2	*	17355.000	53.049	48.587	-20.951	74.000	4.461	PK

Profile: 2410570R	Page No.: 39
Engineer: Yuliu	
Site: AC5	Time: 2024/02/05 - 22:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 2：Transmit at 5825MHz by 802.11n(20MHz) with ant1	



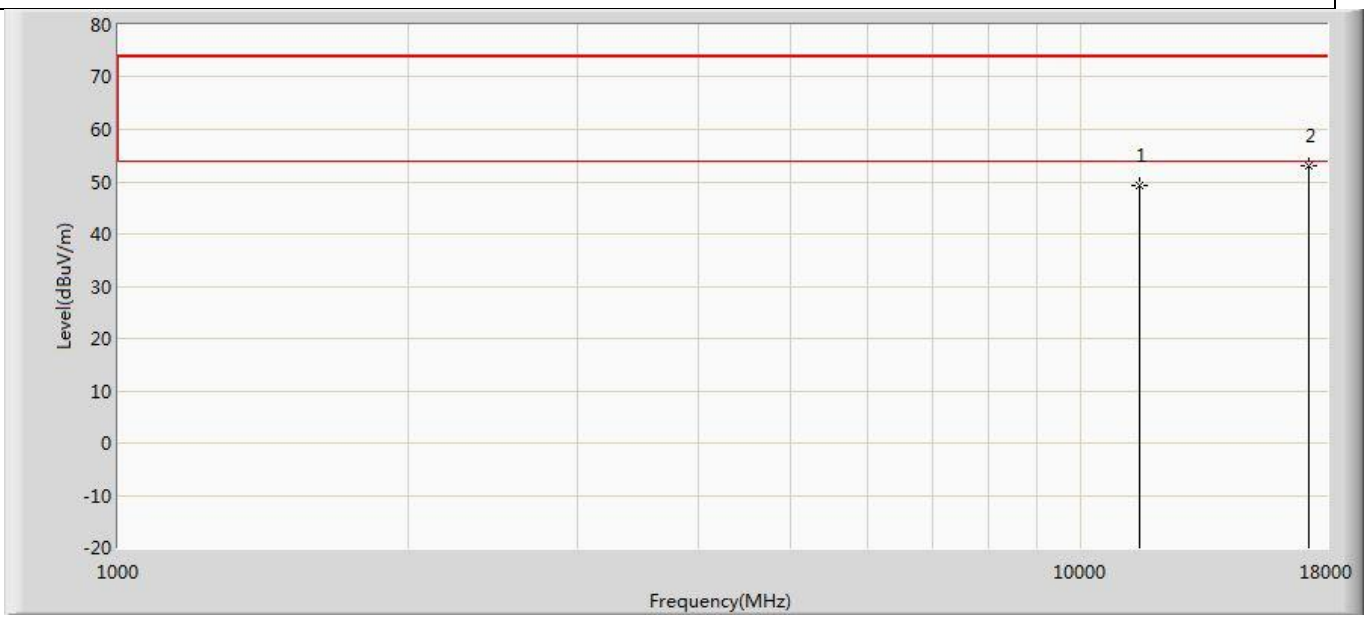
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11650.000	48.854	50.530	-25.146	74.000	-1.676	PK
2	*	17475.000	53.219	49.025	-20.781	74.000	4.195	PK

Profile: 2410570R	Page No.: 40
Engineer: Yuliu	
Site: AC5	Time: 2024/02/05 - 22:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 2：Transmit at 5825MHz by 802.11n(20MHz) with ant1	



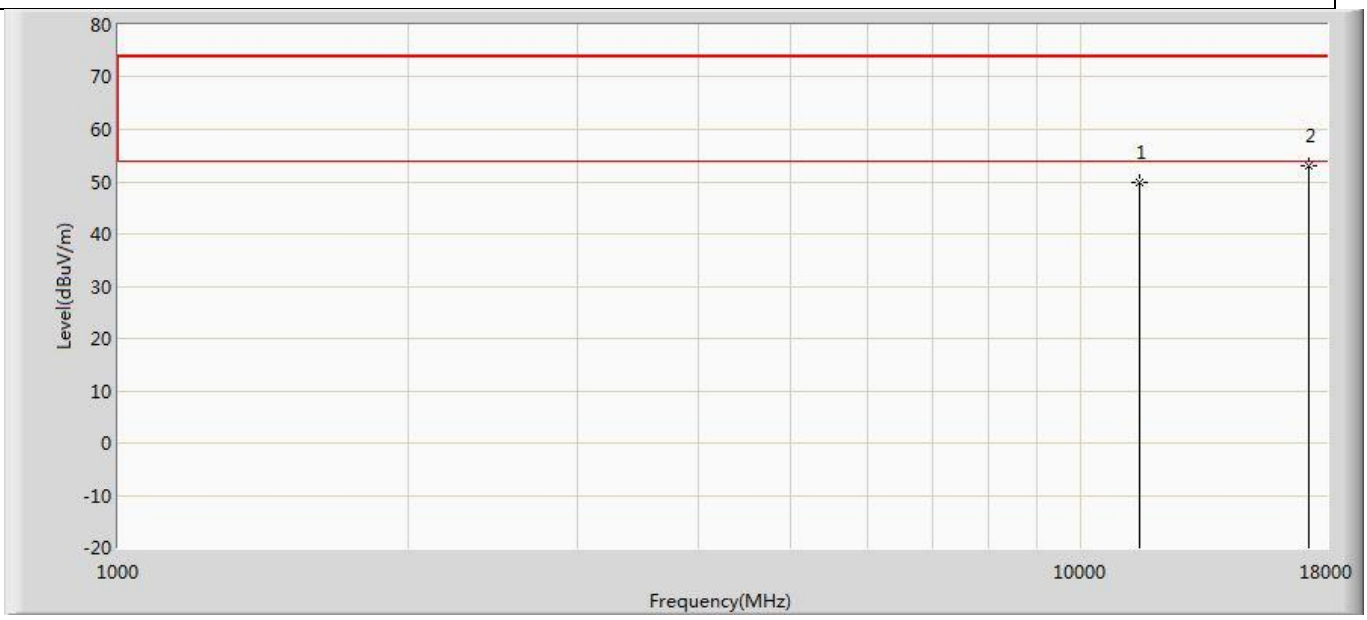
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11650.000	48.578	50.254	-25.422	74.000	-1.676	PK
2	*	17475.000	52.496	48.302	-21.504	74.000	4.195	PK

Profile: 2410570R	Page No.: 41
Engineer: Yuliu	
Site: AC5	Time: 2024/02/05 - 22:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 3：Transmit at 5755MHz by 802.11n(40MHz) with ant1	



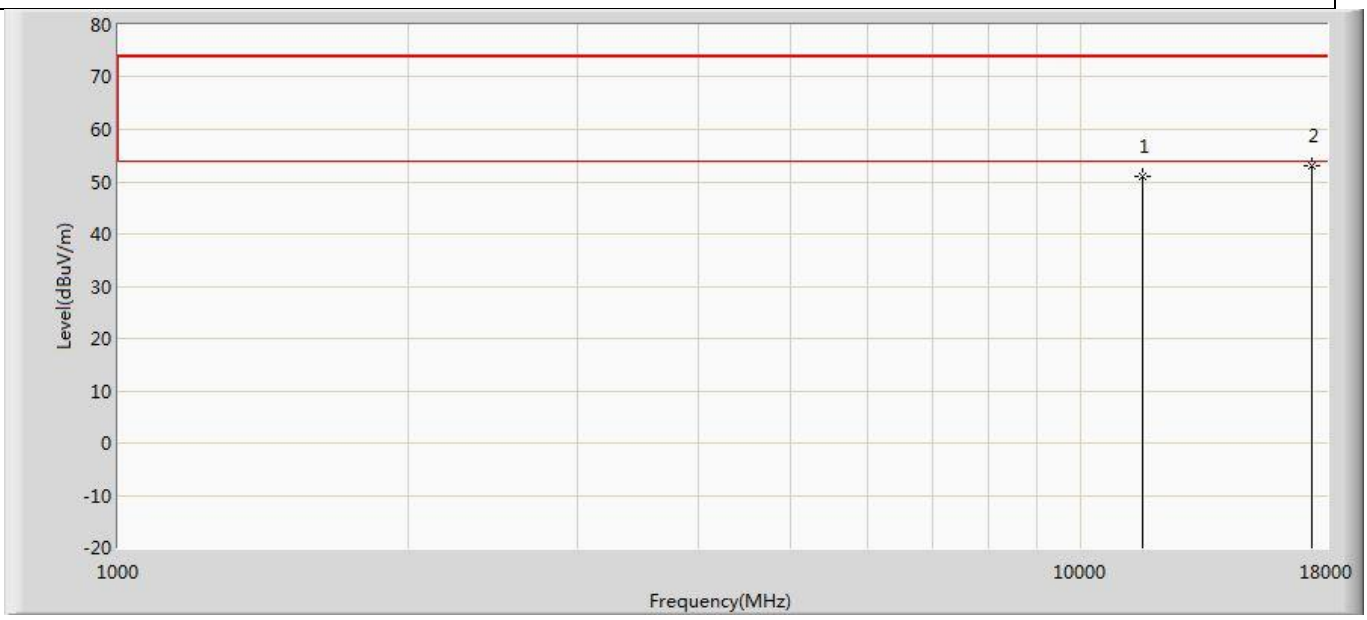
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11510.000	49.321	50.599	-24.679	74.000	-1.278	PK
2	*	17265.000	53.049	49.636	-20.951	74.000	3.412	PK

Profile: 2410570R	Page No.: 42
Engineer: Yuliu	
Site: AC5	Time: 2024/02/05 - 22:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 3：Transmit at 5755MHz by 802.11n(40MHz) with ant1	



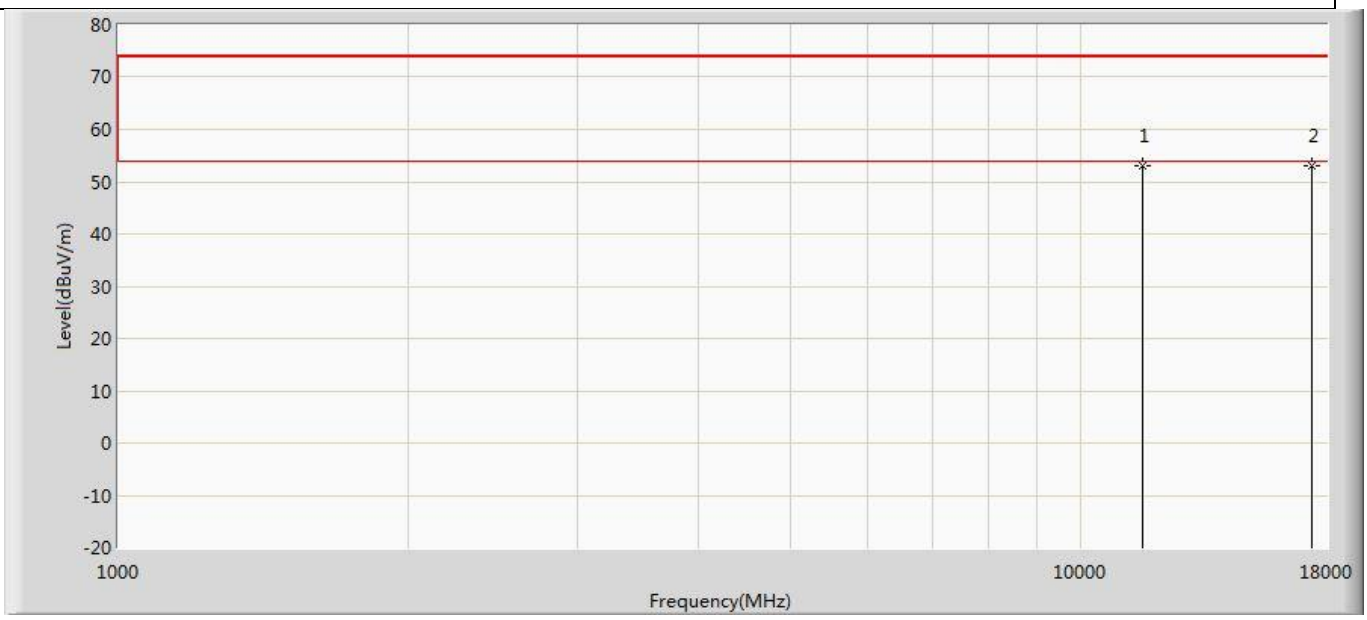
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11510.000	49.713	50.991	-24.287	74.000	-1.278	PK
2	*	17265.000	52.964	49.551	-21.036	74.000	3.412	PK

Profile: 2410570R	Page No.: 43
Engineer: Yuliu	
Site: AC5	Time: 2024/02/05 - 22:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 3：Transmit at 5795MHz by 802.11n(40MHz) with ant1	



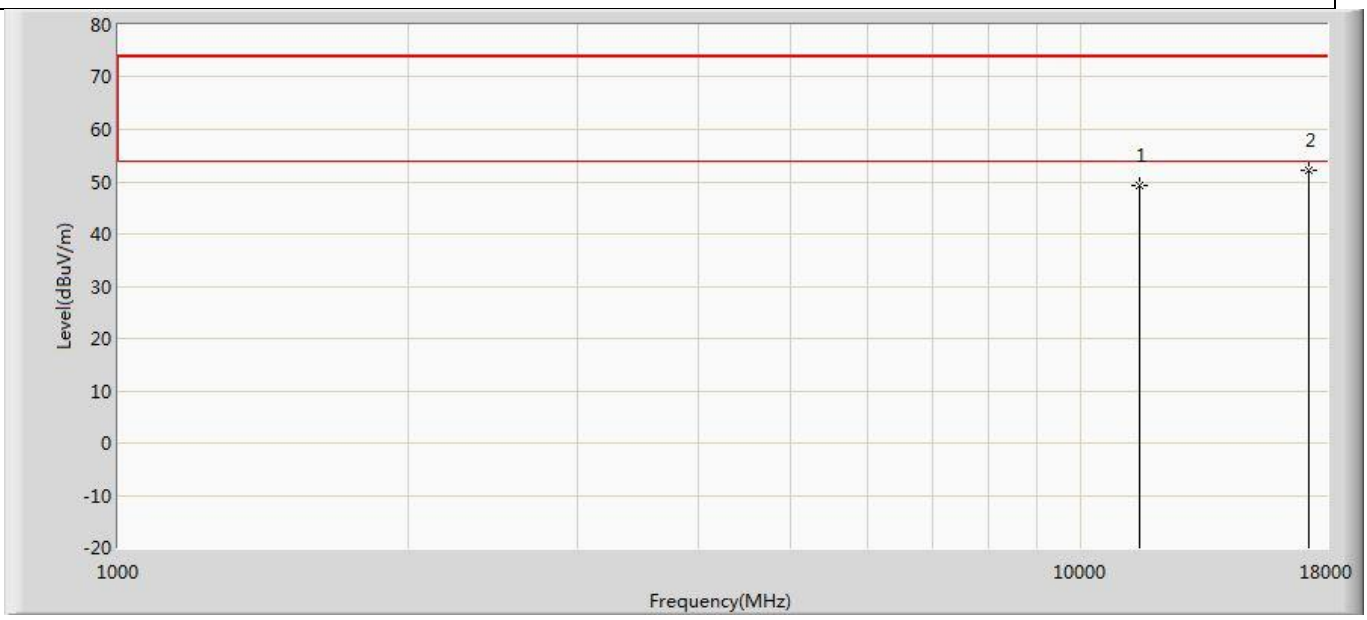
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11590.000	51.130	51.029	-22.870	74.000	0.101	PK
2	*	17385.000	53.047	49.715	-20.953	74.000	3.332	PK

Profile: 2410570R	Page No.: 44
Engineer: Yuliu	
Site: AC5	Time: 2024/02/05 - 22:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 3：Transmit at 5795MHz by 802.11n(40MHz) with ant1	



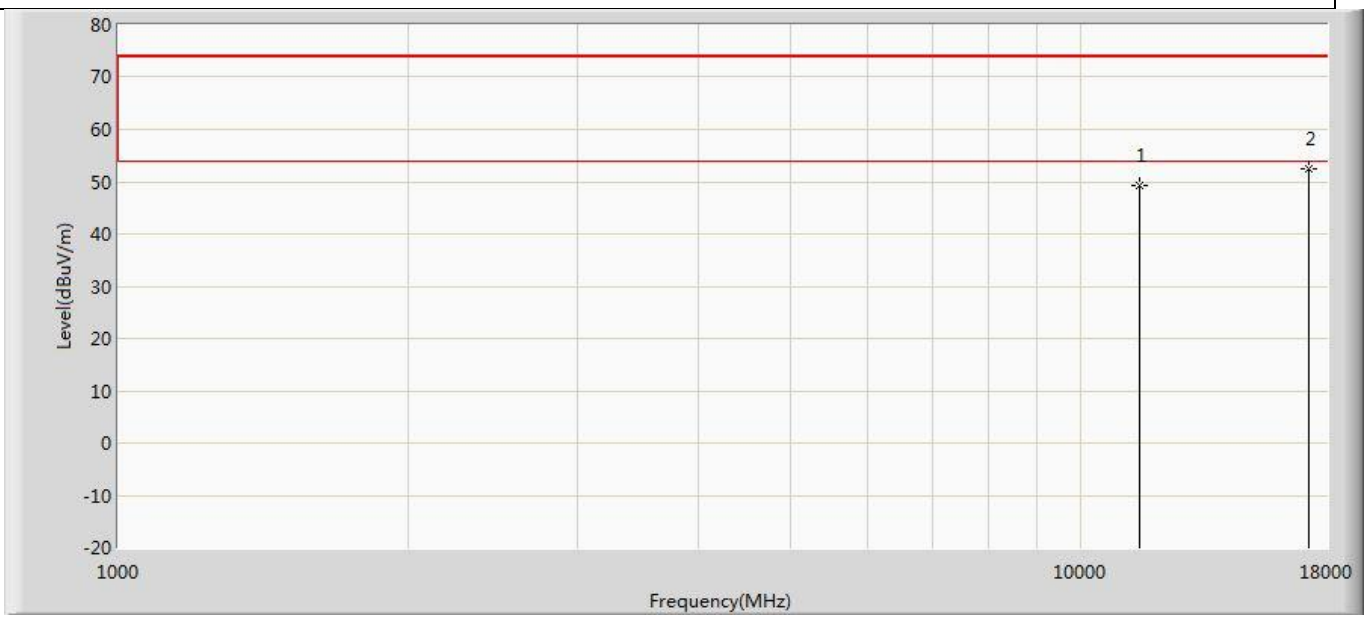
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11590.000	53.033	52.932	-20.967	74.000	0.101	PK
2	*	17385.000	53.097	49.765	-20.903	74.000	3.332	PK

Profile: 2410570R	Page No.: 45
Engineer: Yuliu	
Site: AC5	Time: 2024/02/05 - 22:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 4：Transmit at 5745MHz by 802.11ac(20MHz) with ant1	



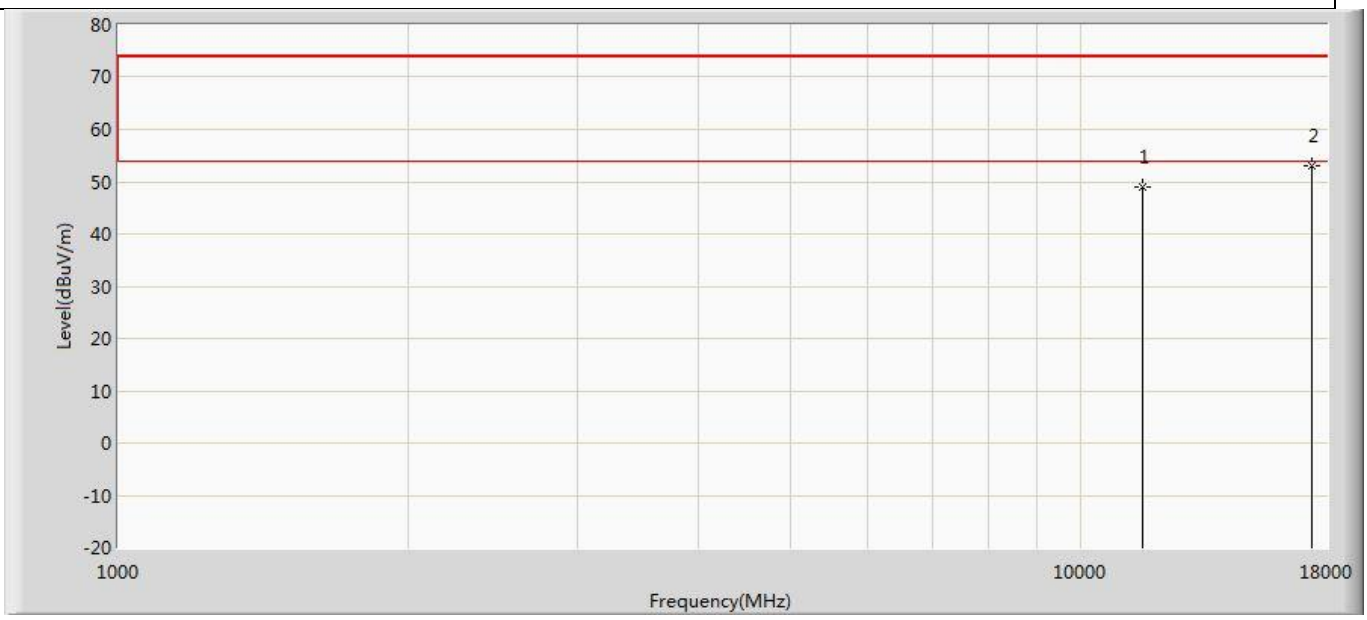
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11490.000	49.267	49.791	-24.733	74.000	-0.524	PK
2	*	17235.000	52.033	46.596	-21.967	74.000	5.437	PK

Profile: 2410570R	Page No.: 46
Engineer: Yuliu	
Site: AC5	Time: 2024/02/05 - 22:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 4：Transmit at 5745MHz by 802.11ac(20MHz) with ant1	



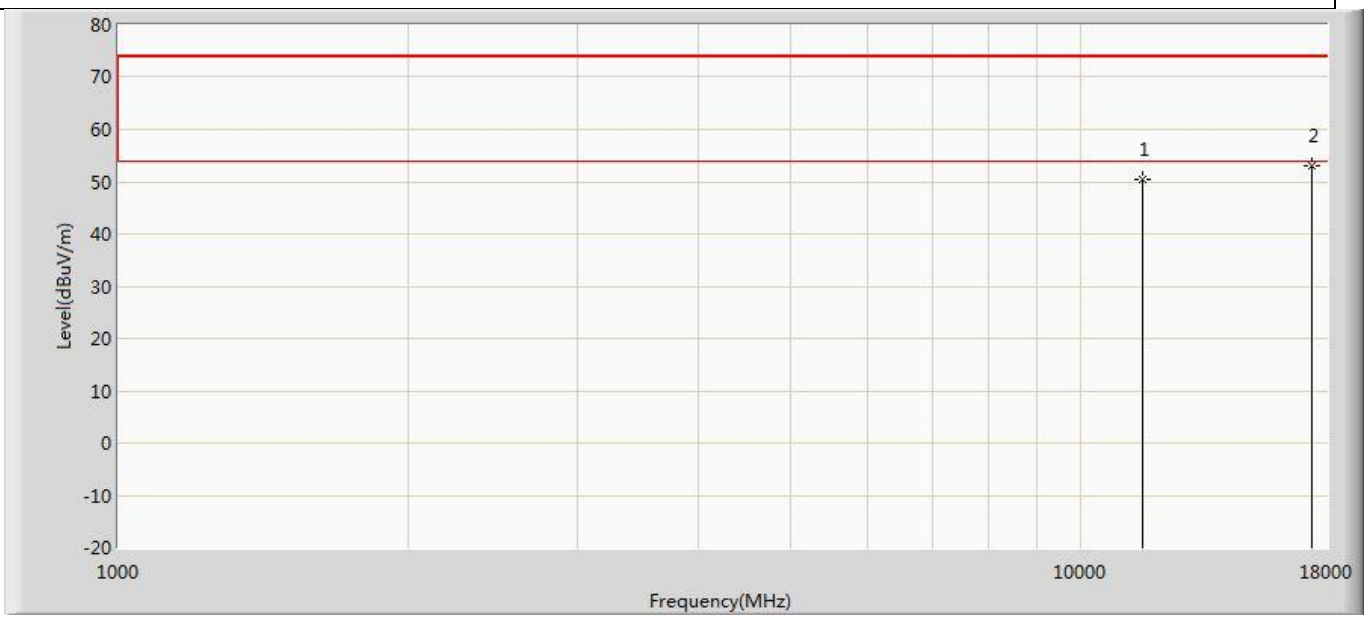
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11490.000	49.365	49.889	-24.635	74.000	-0.524	PK
2	*	17235.000	52.476	47.039	-21.524	74.000	5.437	PK

Profile: 2410570R	Page No.: 47
Engineer: Yuliu	
Site: AC5	Time: 2024/02/05 - 22:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 4：Transmit at 5785MHz by 802.11ac(20MHz) with ant1	



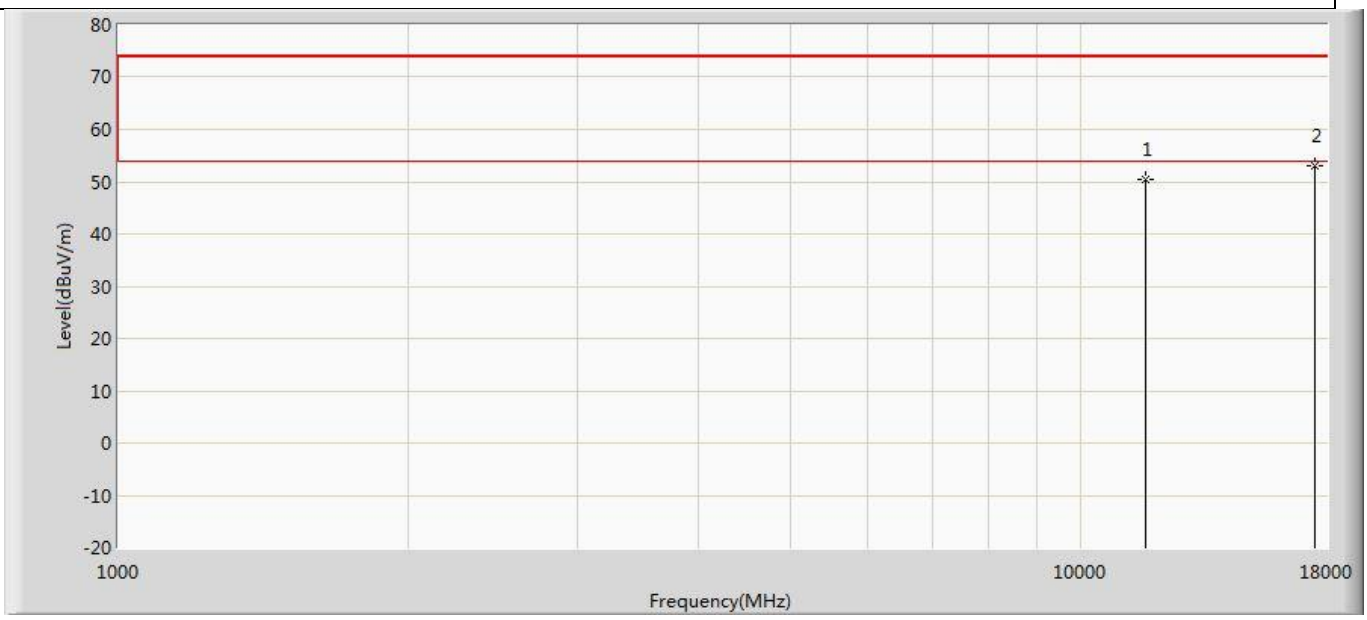
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11570.000	48.951	50.140	-25.049	74.000	-1.189	PK
2	*	17355.000	52.964	48.502	-21.036	74.000	4.461	PK

Profile: 2410570R	Page No.: 48
Engineer: Yuliu	
Site: AC5	Time: 2024/02/05 - 22:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 4：Transmit at 5785MHz by 802.11ac(20MHz) with ant1	



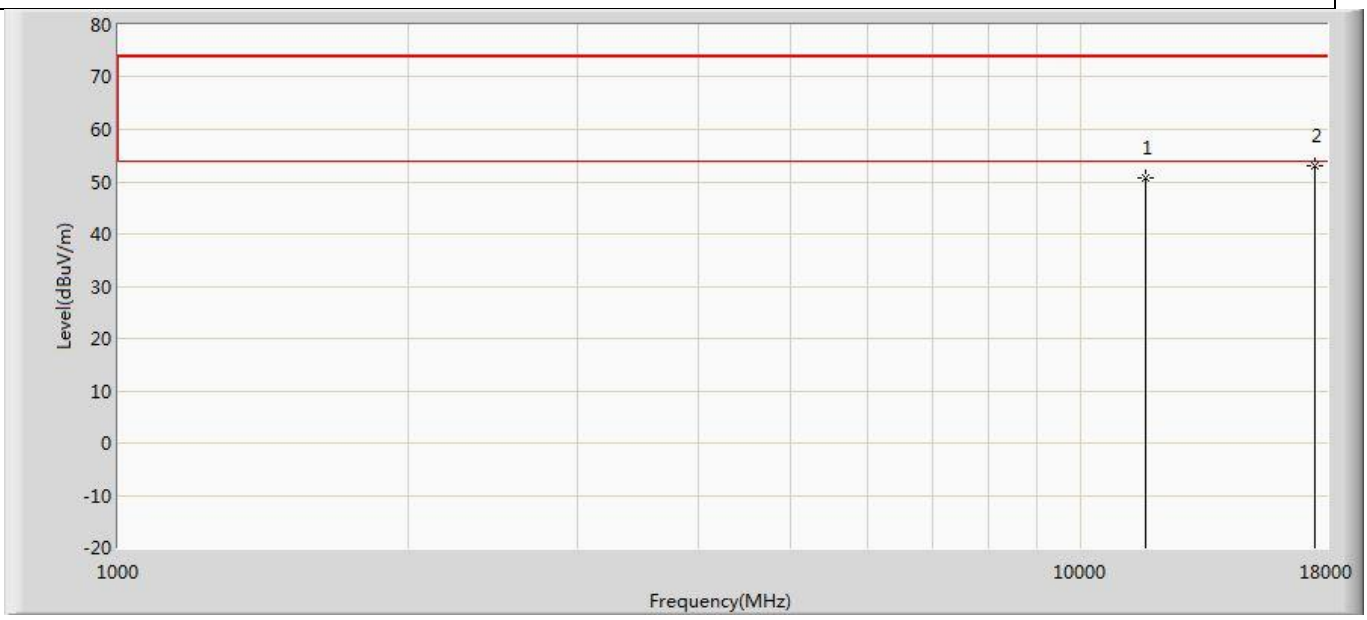
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11570.000	50.321	51.510	-23.679	74.000	-1.189	PK
2	*	17355.000	53.049	48.587	-20.951	74.000	4.461	PK

Profile: 2410570R	Page No.: 49
Engineer: Yuliu	
Site: AC5	Time: 2024/02/05 - 22:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 4：Transmit at 5825MHz by 802.11ac(20MHz) with ant1	



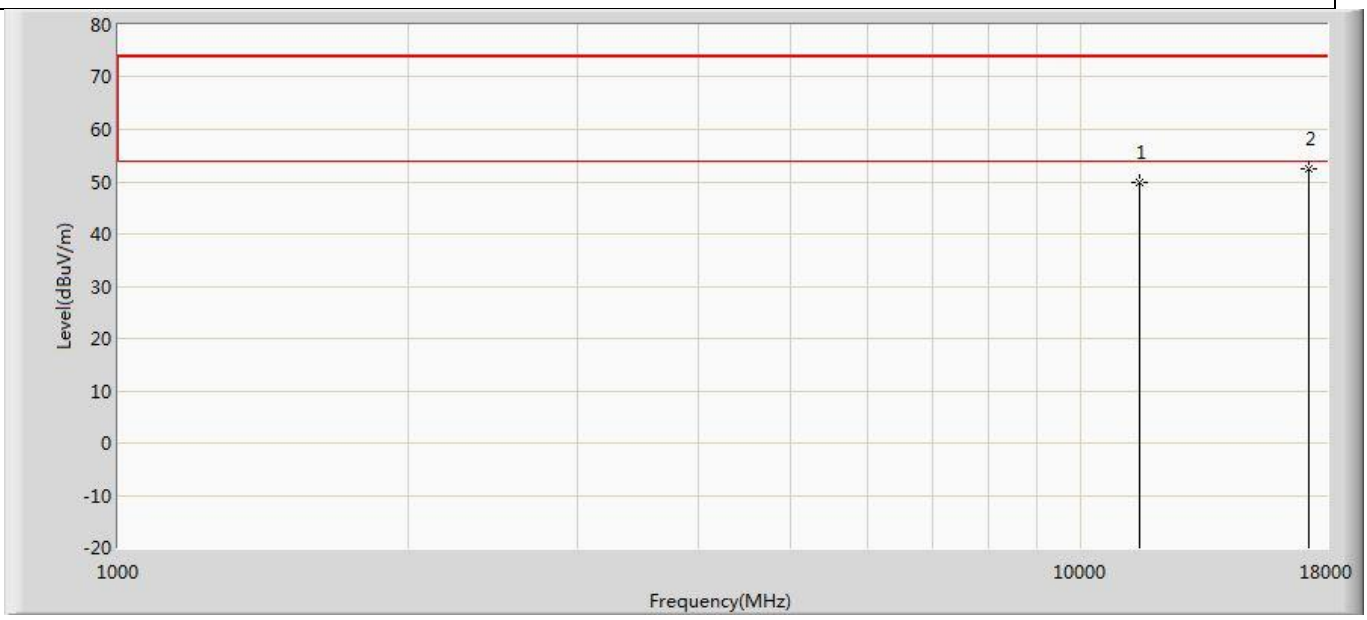
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11650.000	50.363	52.039	-23.637	74.000	-1.676	PK
2	*	17475.000	52.994	48.800	-21.006	74.000	4.195	PK

Profile: 2410570R	Page No.: 50
Engineer: Yuliu	
Site: AC5	Time: 2024/02/05 - 22:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 4：Transmit at 5825MHz by 802.11ac(20MHz) with ant1	



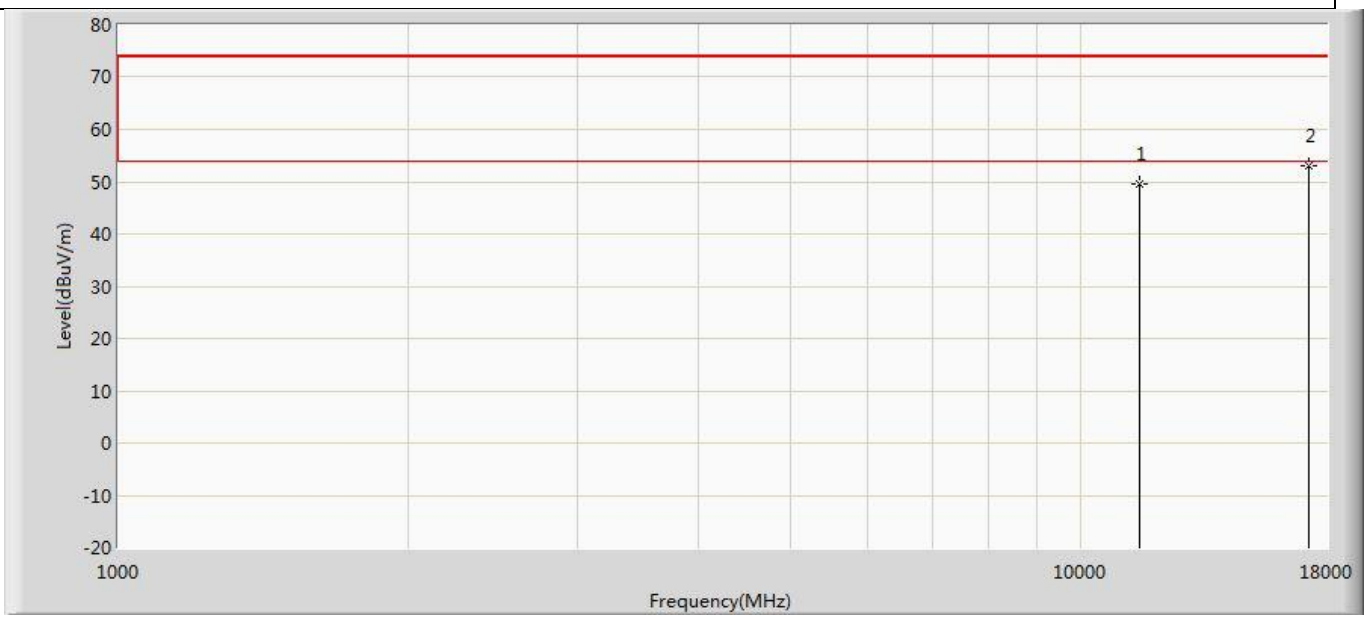
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11650.000	50.609	52.285	-23.391	74.000	-1.676	PK
2	*	17475.000	53.055	48.861	-20.945	74.000	4.195	PK

Profile: 2410570R	Page No.: 51
Engineer: Yuliu	
Site: AC5	Time: 2024/02/05 - 22:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 5：Transmit at 5755MHz by 802.11ac(40MHz) with ant1	



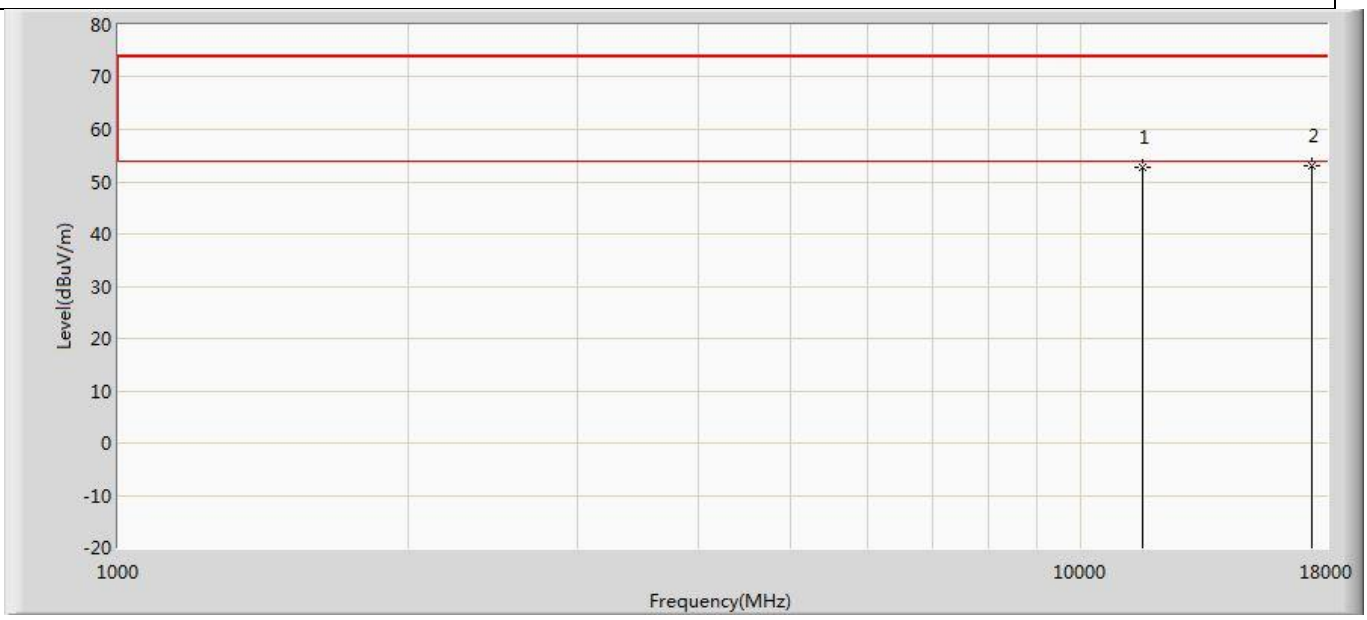
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11510.000	49.824	51.102	-24.176	74.000	-1.278	PK
2	*	17265.000	52.494	49.081	-21.506	74.000	3.412	PK

Profile: 2410570R	Page No.: 52
Engineer: Yuliu	
Site: AC5	Time: 2024/02/05 - 22:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 5：Transmit at 5755MHz by 802.11ac(40MHz) with ant1	



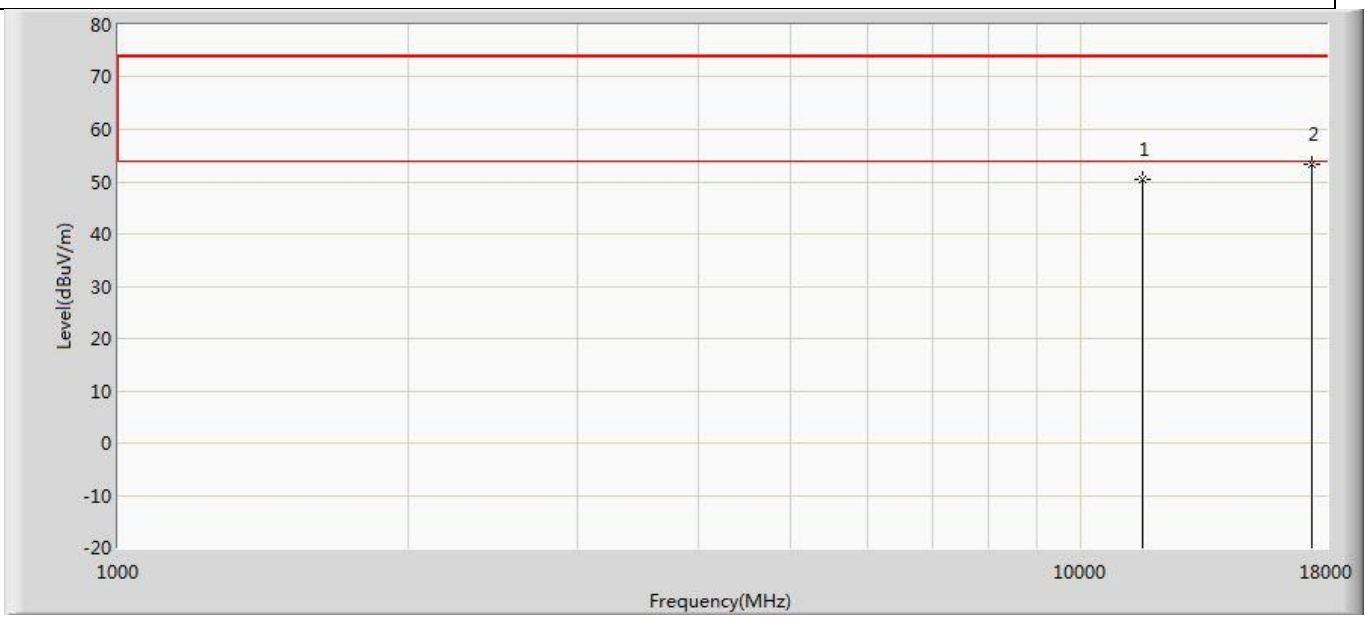
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11510.000	49.434	50.712	-24.566	74.000	-1.278	PK
2	*	17265.000	52.914	49.501	-21.086	74.000	3.412	PK

Profile: 2410570R	Page No.: 53
Engineer: Yuliu	
Site: AC5	Time: 2024/02/05 - 22:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 5：Transmit at 5795MHz by 802.11ac(40MHz) with ant1	



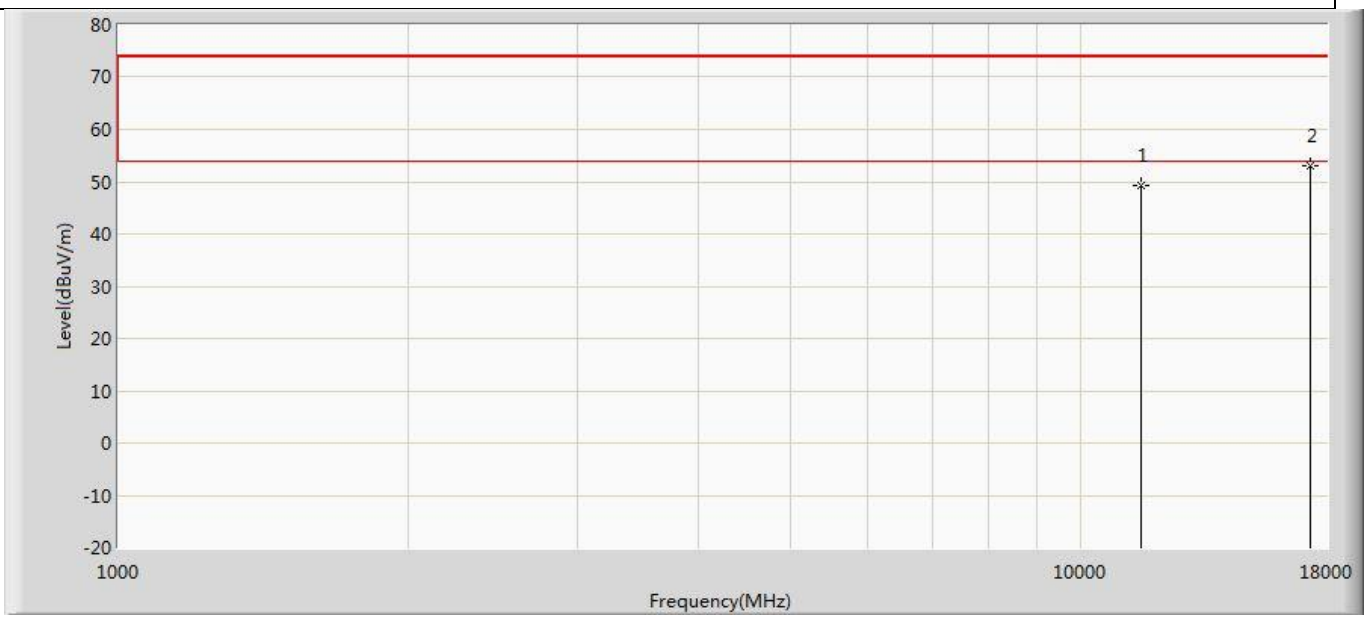
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11590.000	52.664	52.563	-21.336	74.000	0.101	PK
2	*	17385.000	53.117	49.785	-20.883	74.000	3.332	PK

Profile: 2410570R	Page No.: 54
Engineer: Yuliu	
Site: AC5	Time: 2024/02/05 - 22:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 5：Transmit at 5795MHz by 802.11ac(40MHz) with ant1	



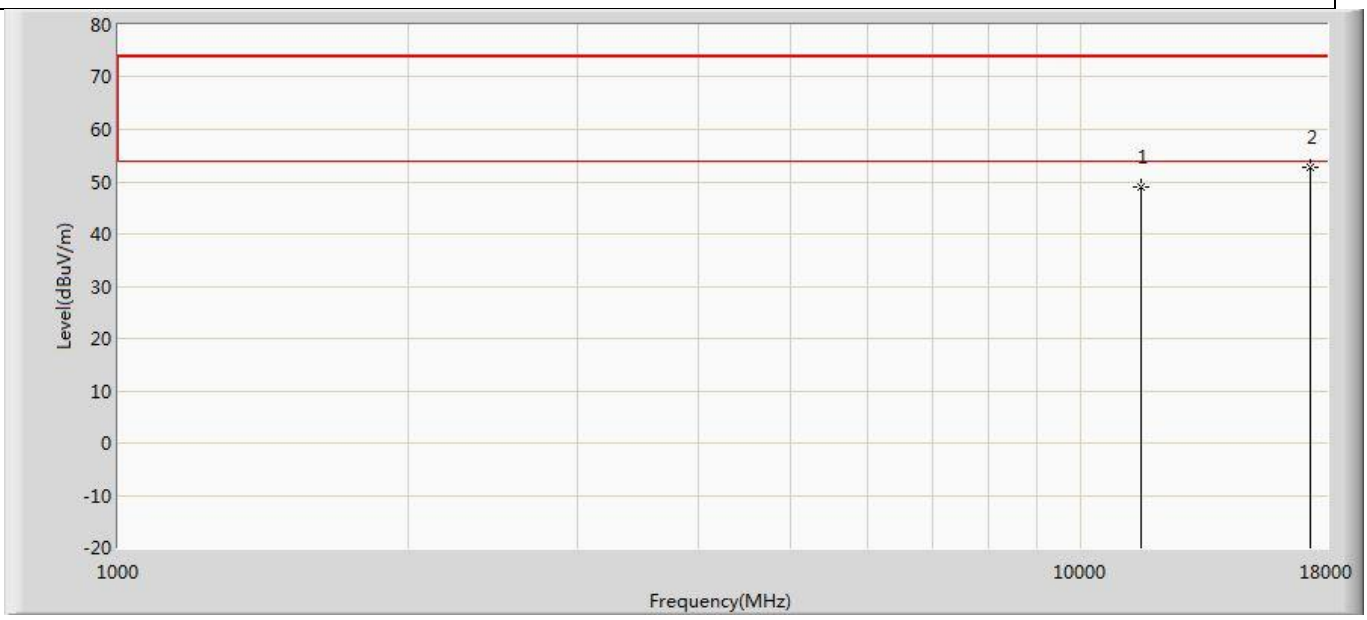
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11590.000	50.486	50.385	-23.514	74.000	0.101	PK
2	*	17385.000	53.219	49.887	-20.781	74.000	3.332	PK

Profile: 2410570R	Page No.: 55
Engineer: Yuliu	
Site: AC5	Time: 2024/02/05 - 22:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 6：Transmit at 5775MHz by 802.11ac(80MHz) with ant1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11550.000	49.370	50.930	-24.630	74.000	-1.560	PK
2	*	17325.000	53.111	49.561	-20.889	74.000	3.549	PK

Profile: 2410570R	Page No.: 56
Engineer: Yuliu	
Site: AC5	Time: 2024/02/05 - 22:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 6：Transmit at 5775MHz by 802.11ac(80MHz) with ant1	



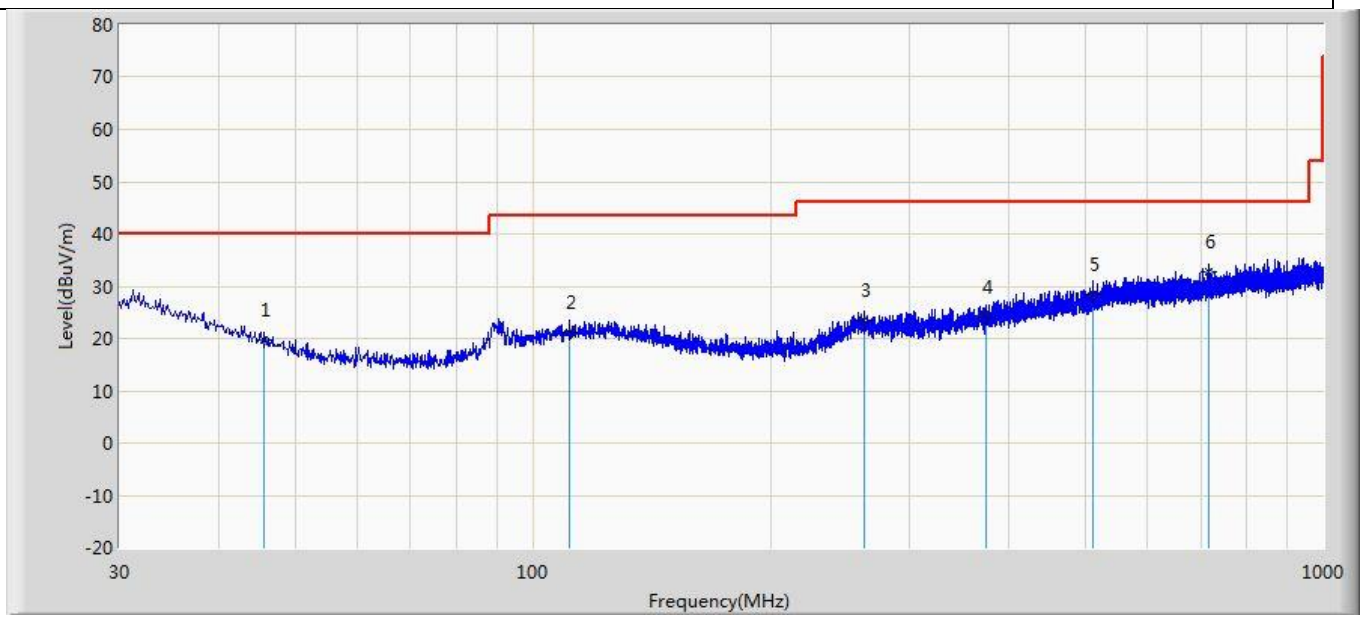
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		11550.000	49.061	50.621	-24.939	74.000	-1.560	PK
2	*	17325.000	52.782	49.232	-21.218	74.000	3.549	PK

Note:

1. Measured Level = Reading Level + Factor.
2. The test frequency range, 9kHz~30MHz, 18GHz~26GHz, both of the worst case are at least 20dB below the limits, therefore no data appear in the report.
3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.
4. We have evaluated each operating mode and SISO/MIMO mode, SISO mode Antenna1 is worse ,shown in the report is the worst SISO Antenna1 data.

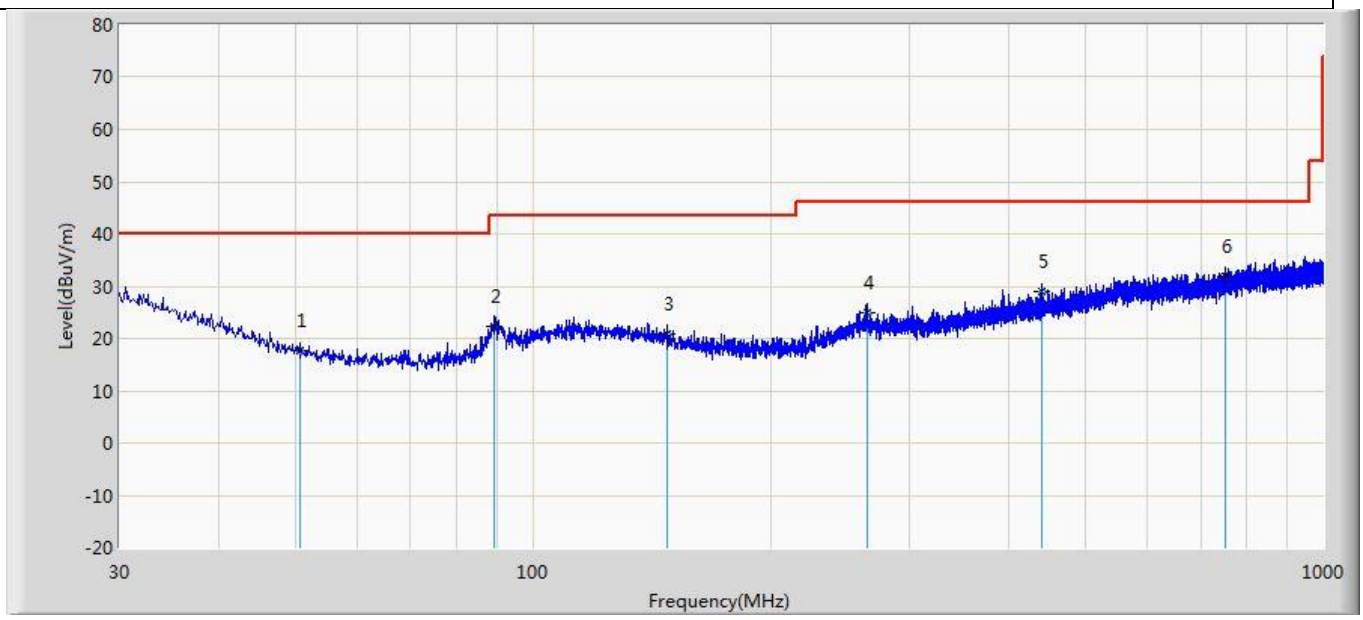
The worst case of Radiated Emission below 1GHz:

Profile: 2410570R	Page No.: 77
Engineer: Pengchengyang	
Site: AC2	Time: 2024/02/03 - 11:50
Limit: FCC_Part 15.109_RE (3m)_Class B	Margin: 0
Probe: CBL6112D_27613(30-1000MHz)	Polarity: Horizontal
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 1：Transmit at 5180MHz by 802.11a with Ant1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		45.763	19.830	3.190	-20.170	40.000	16.640	QP
2		111.480	21.164	2.063	-22.336	43.500	19.101	QP
3		262.557	23.500	2.764	-22.500	46.000	20.736	QP
4		373.865	24.166	1.393	-21.834	46.000	22.773	QP
5		512.454	28.279	2.290	-17.721	46.000	25.989	QP
6	*	716.760	32.890	4.902	-13.110	46.000	27.988	QP

Profile: 2410570R	Page No.: 78
Engineer: Pengchengyang	
Site: AC2	Time: 2024/02/03 - 11:50
Limit: FCC_Part 15.109_RE (3m)_Class B	Margin: 0
Probe: CBL6112D_27613(30-1000MHz)	Polarity: Vertical
EUT: POS Station	Power: AC 120V/60Hz
Note: Mode 1：Transmit at 5180MHz by 802.11a with Ant1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		50.734	17.570	2.882	-22.430	40.000	14.687	QP
2		89.534	22.179	6.399	-21.321	43.500	15.779	QP
3		147.734	20.750	3.137	-22.750	43.500	17.614	QP
4		264.497	24.855	4.228	-21.145	46.000	20.627	QP
5		440.552	28.951	4.504	-17.049	46.000	24.447	QP
6	*	752.771	31.945	3.432	-14.055	46.000	28.513	QP

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp)
4. We have evaluated each operating mode and SISO/MIMO mode, SISO mode Antenna1 is worse ,shown in the report is the worst SISO Antenna1 data.

8 TEST RESULT-APPENDIX C: EMISSION BANDWIDTH AND OCCUPIED BANDWIDTH

FOR 26dB Emission Bandwidth

TestMode	Antenna	Frequency[MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
11A	Ant1	5745	21.400	5734.360	5755.760	PASS
11A	Ant1	5785	21.120	5774.880	5796.000	PASS
11A	Ant1	5825	20.800	5814.600	5835.400	PASS
11N20SISO	Ant1	5180	40.000	5160.000	5200.000	PASS
11AC20SISO	Ant1	5180	40.000	5160.000	5200.000	PASS
11N20SISO	Ant1	5745	22.480	5734.480	5756.960	PASS
11N20SISO	Ant1	5785	23.520	5774.520	5798.040	PASS
11N20SISO	Ant1	5825	20.960	5814.040	5835.000	PASS
11AC20SISO	Ant1	5745	22.600	5732.720	5755.320	PASS
11AC20SISO	Ant1	5785	20.440	5774.840	5795.280	PASS
11AC20SISO	Ant1	5825	20.480	5814.880	5835.360	PASS
11N40SISO	Ant1	5755	50.240	5730.840	5781.080	PASS
11A	Ant1	5180	27.160	5167.920	5195.080	PASS
11A	Ant1	5220	25.240	5209.240	5234.480	PASS
11N40SISO	Ant1	5795	39.280	5775.480	5814.760	PASS
11AC40SISO	Ant1	5755	46.960	5729.320	5776.280	PASS
11AC40SISO	Ant1	5795	40.800	5774.600	5815.400	PASS
11AC80SISO	Ant1	5775	109.920	5706.360	5816.280	PASS
11A	Ant1	5240	25.240	5229.160	5254.400	PASS
11N20SISO	Ant1	5220	24.560	5209.240	5233.800	PASS
11N20SISO	Ant1	5240	26.200	5225.960	5252.160	PASS
11N40SISO	Ant1	5190	39.440	5170.400	5209.840	PASS
11N40SISO	Ant1	5230	39.840	5210.160	5250.000	PASS
11AC20SISO	Ant1	5220	21.360	5210.040	5231.400	PASS
11AC20SISO	Ant1	5240	21.880	5229.480	5251.360	PASS
11AC40SISO	Ant1	5190	56.800	5169.760	5226.560	PASS
11AC40SISO	Ant1	5230	40.640	5209.760	5250.400	PASS
11AC80SISO	Ant1	5210	90.080	5169.200	5259.280	PASS

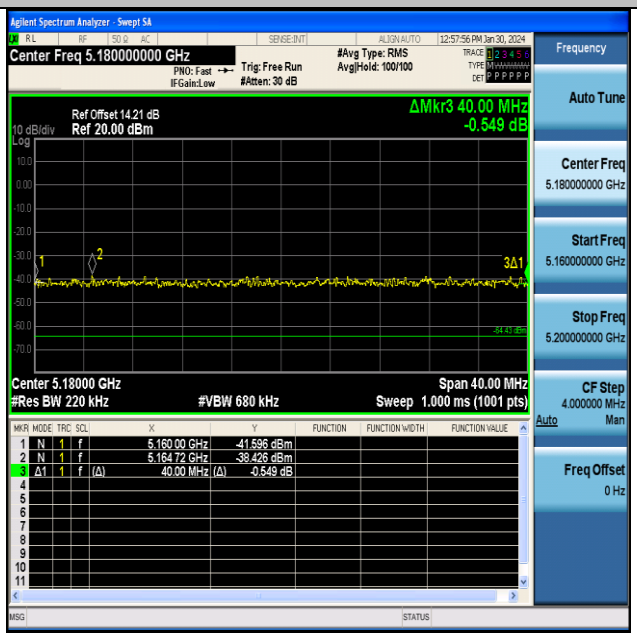
Note 1: We have evaluated each operating mode and SISO/MIMO mode, SISO mode Antenna1 is worse ,shown in the report is the worst SISO Antenna1 data.

Test Graphs

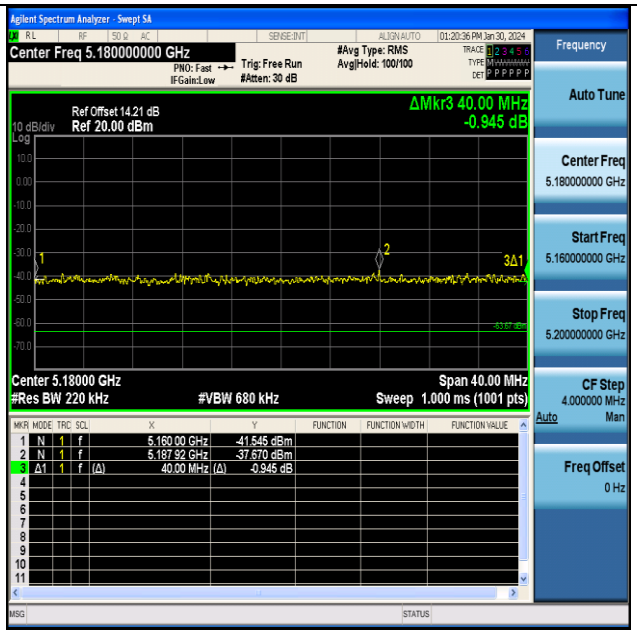
11A-Ant1-5745

11A-Ant1-5785

11A-Ant1-5825



11N20SISO-Ant1-5180



11AC20SISO-Ant1-5180

11N20SISO-Ant1-5745

11N20SISO-Ant1-5785

11N20SISO-Ant1-5825

11AC20SISO-Ant1-5745

11AC20SISO-Ant1-5785

11AC20SISO-Ant1-5825

11N40SISO-Ant1-5755

11A-Ant1-5180

11A-Ant1-5220

11N40SISO-Ant1-5795

11AC40SISO-Ant1-5755

11AC40SISO-Ant1-5795

11AC80SISO-Ant1-5775

11A-Ant1-5240

11N20SISO-Ant1-5220

11N20SISO-Ant1-5240

11N40SISO-Ant1-5190

11N40SISO-Ant1-5230

11AC20SISO-Ant1-5220

11AC20SISO-Ant1-5240

11AC40SISO-Ant1-5190

11AC40SISO-Ant1-5230

11AC80SISO-Ant1-5210

FOR 99%OCCUPIED BANDWIDTH

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11A	Ant1	5745	17.026	5736.4469	5753.4729	PASS
11A	Ant1	5785	16.938	5776.5911	5793.5291	PASS
11A	Ant1	5825	16.946	5816.5044	5833.4504	PASS
11AC20SISO	Ant1	5785	17.947	5776.0805	5794.0275	PASS
11AC20SISO	Ant1	5825	17.943	5816.0696	5834.0126	PASS
11N20SISO	Ant1	5745	17.966	5735.9960	5753.9620	PASS
11N20SISO	Ant1	5785	17.853	5776.1437	5793.9967	PASS
11N20SISO	Ant1	5825	17.829	5816.0679	5833.8969	PASS
11AC20SISO	Ant1	5745	17.996	5736.0133	5754.0093	PASS
11N40SISO	Ant1	5755	36.734	5736.6592	5773.3932	PASS
11N40SISO	Ant1	5795	36.378	5776.9282	5813.3062	PASS
11AC40SISO	Ant1	5755	36.870	5736.5208	5773.3908	PASS
11A	Ant1	5180	17.620	5171.3029	5188.9229	PASS
11AC40SISO	Ant1	5795	36.402	5776.8726	5813.2746	PASS
11AC80SISO	Ant1	5775	76.752	5736.7238	5813.4758	PASS
11A	Ant1	5220	17.357	5211.4657	5228.8227	PASS
11A	Ant1	5240	17.421	5231.3060	5248.7270	PASS
11N20SISO	Ant1	5180	18.191	5170.9404	5189.1314	PASS
11N20SISO	Ant1	5220	18.058	5211.0657	5229.1237	PASS
11N20SISO	Ant1	5240	18.055	5230.9725	5249.0275	PASS
11N40SISO	Ant1	5190	36.633	5171.7890	5208.4220	PASS
11N40SISO	Ant1	5230	36.263	5211.9687	5248.2317	PASS
11AC20SISO	Ant1	5180	18.065	5171.0244	5189.0894	PASS
11AC20SISO	Ant1	5220	17.962	5211.1316	5229.0936	PASS
11AC20SISO	Ant1	5240	17.962	5231.0538	5249.0158	PASS
11AC40SISO	Ant1	5190	36.897	5171.7621	5208.6591	PASS
11AC40SISO	Ant1	5230	36.463	5211.8662	5248.3292	PASS
11AC80SISO	Ant1	5210	76.574	5171.9609	5248.5349	PASS

Note 1: We have evaluated each operating mode and SISO/MIMO mode, SISO mode Antenna1 is worse ,shown in the report is the worst SISO Antenna1 data.