



Test report No:
2390782R-RF-US-P06V01

FCC & ISED TEST REPORT

Product Name	Mobile Computer
Trademark	Elo
Model and /or type reference	EMC-M51C
FCC ID	RBWEMCM51C
IC	10757B-EMCM51C
Applicant’s name / address	Elo Touch Solutions, Inc 670 N. McCarthy Blvd., Suite 100, Milpitas, CA 95035, USA.
Test method requested, standard	47 CFR FCC Part 15 (Section 15.247) ANSI C63.10: 2013 RSS-Gen Issue 5 RSS-247 Issue 3
Verdict Summary	IN COMPLIANCE
Tested By (name / position & signature)	Tim Cao / Project Manager
Approved by (name / position & signature)	Jack Zhang / Manager
Date of issue	2024-09-14
Report Version	V1.0
Report template No	Template_FCC Part 15C-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)	Mar. 20, 2024
Date (start test)	Jun. 01, 2024
Date (finish test)	Jun. 30, 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.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.
5. The 2.4G WLAN part of AirEngine6761-21T is exactly the same as AirEngine5761-11, so we only verified the power and AC Power Line Conducted Emission, and other data are quoted from AirEngine5761-11.

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
2390782R-RF-US-P06V01	V1.0	Initial issue of report.	2024-09-14

REMARKS AND COMMENTS

1. The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).
2. This report is limited report related to installation tested module in Mobile Computer, the customer declared that the RF parameter of the module installed in the host is exactly same with the certificated module. We verified the RF Output Power and Radiated Emissions on the Host. For other test data, please refer to FCC ID: 2APJ4-SRM955, IC: 23860-SRM955. These test results on a sample of the device are for the purpose of demonstrating Compliance with 47 CFR FCC Part 15 (Section 15.247), RSS-247 Issue 3. RSS-Gen Issue 5.
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 Data Rate;
 - Chapter 1.4 Channel List;

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	2024.05.15	2025.05.14	V 4.0.60	N/A
Coaxial Cable	N/A	N/A	2477	2023.10.08	2024.10.07	N/A	N/A
Coaxial Cable	N/A	N/A	2478	2023.10.08	2024.10.07	N/A	N/A
High and low temperature and fast temperature change test box	ASTUOD	ASTD-FBT-225K	N/A	2024.04.21	2025.04.20	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-1909	THM-032	2024.05.17	2025.05.16	N/A	N/A
Test system							
Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
MAX Signal Analyzer	Keysight	N9010A	MY48030494	2023.11.08	2024.11.07	A.14.03	N/A
RF Control Unit	Tonscend	JS0806-2	22G8060594	2024.01.31	2025.01.30	N/A	N/A
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY61252529	2024.05.12	2025.05.11	B.01.96	N/A
Frequency extender for EXG or MXG	Keysight	N5182BX07	MY59362500	2024.05.12	2025.05.11	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

Radiated Emission (9KHz-1GHz) / AC2

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
EMI Test Receiver	R&S	ESCI	100573	2024.02.06	2025.02.05	4.42 SP3	N/A
Loop Antenna	R&S	HFH2-Z2E	101149	2024.03.27	2025.03.26	N/A	N/A
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2024.03.20	2025.03.19	N/A	N/A
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2024.04.27	2025.04.26	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-1909	THM-021	2024.05.17	2025.05.16	N/A	N/A
Dekra test software	Dekra	N/A	N/A	N/A	N/A	N/A	3

Radiated Emission (1GHz-40GHz) / AC5

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
EXA Spectrum Analyzer	Keysight	N9020B	MY60112 218	2023.11.08	2024.11.07	A.31.05	N/A
Pre-Amplifier	SKET	EMC18404 5SE	980263	2023.07.14	2024.07.13	N/A	N/A
Preamplifier	CHENGYI	EMC18404 5SE	980263	2023.07.09	2024.07.08	N/A	N/A
DRG Horn Antenna	ETS-Lindgren	3117	123988	2023.11.07	2024.11.06	N/A	N/A
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2024.05.30	2025.05.29	N/A	N/A
Filter Switch Box	MVE	MSW-F196	C070001S	2024.04.20	2025.04.19	N/A	N/A
Coaxial Cable	ROSENBERGER	LA1-C011-2000/3000	AC5-40G-2	2024.05.26	2025.05.25	N/A	N/A
Cable	Rosenberger	LA1-C011-1000	0523	2024.05.26	2025.05.25	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-1909	THM-001	2023.08.25	2024.08.24	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-1909	THM-024	2024.05.17	2025.05.16	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
Peak Power Output	± 1.13 dB
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

1 GENERAL INFORMATION

1.1 General Description of the Item(s)

Product Name.....:	Mobile Computer
Model No.:	EMC-M51C
Trademark.:	Elo
FCC ID.....:	RBWEMCM51C
IC.....:	10757B-EMCM51C
Hardware Version	V1.06
Software Version.....:	MT912NoGms_EQ000_2774.F53FD5F.FD20B6E.6EAD44F_240130_100_V01_T23
Manufacturer.....:	Elo Touch Solutions, Inc
Manufacturer Address.....:	670 N. McCarthy Blvd., Suite 100, Milpitas, CA 95035, USA.
Factory.....:	ShuoGe Intelligent Technology Co.,Ltd.
Factory address	Room 308-310, Building 1, No.2 8th Road, Baiyang Street, Qiantang New Area, Hangzhou City, Zhejiang Province, P.R. China(310018)
Operating temperature	-20 ~ +50℃

Wireless Card	SRM955
Wireless specification.....:	802.11b/g/n/ax
Operating frequency range(s).....:	2412~2462MHz
Number of channel.....:	802.11b/g/n/ax(20MHz) : 11 802.11n/ax(40MHz) : 07
Type of Modulation & Data Rate.... :	Refer to Clause 1.3
Device category	☐ Fixed point-to-point ☐ Emit multiple directional beams, simultaneously or sequentially ☒ Other cases

Rated power supply	Voltage and Frequency	
	☐	AC: 220 - 240 V, 50/60 Hz
	☐	AC: 100 - 240 V, 50/60 Hz
	☒	Battery: 3.8 Vdc
	☒	Adapter:
Adapter Model.....:	UES45LCP-SPC	
	Input: 100-240 V ~ 50/60 Hz, 1.3 A Output: 5.0 V / 3.0 A, 15.0 W; 9.0 V / 3.0 A, 27.0 W; 12.0 V / 3.0 A, 36.0 W; 15.0 V / 3.0 A, 45.0 W; 20.0 V / 2.25 A, 45.0 W Max;	
Mounting position	☐	Tabletop equipment
	☐	Wall/Ceiling mounted equipment
	☐	Floor standing equipment

	☒	Hand-held/Portable equipment
	☐	Other:

1.2 Antenna Information

Antenna Delivery	☒	1TX + 1RX	
	☒	2TX + 2RX	
	☐	Others:.....	
Antenna technology	☒	SISO	
	☒	MIMO	☒ CDD
			☐ Beam-forming
Antenna Type.....	☐	External	☐ Dipole
			☐ Sectorized
	☒	Internal	☐ Monopole
			☒ PIFA
			☐ Others
Antenna Gain	-1.50 dBi		

1.3 Data Rate

IEEE 802.11b

Modulation	Data Rate(Mb/s)
DSSS	1
DSSS	2
CCK	5.5
CCK	11

IEEE 802.11g

Modulation	R	Data Rate(Mb/s)
BPSK	1/2	6
BPSK	3/4	9
QPSK	1/2	12
QPSK	3/4	18
16-QAM	1/2	24
16-QAM	3/4	36
64-QAM	2/3	48
64-QAM	3/4	54

IEEE 802.11n

Spatial streames	MCS Index	Modulation	R	Data Rate(Mb/s)			
				800ns GI		400ns GI	
				20MHz	40MHz	20MHz	40MHz
1	0	BPSK	1/2	6.5	13.5	7.2	15.0
1	1	QPSK	1/2	13.0	27.0	14.4	30.0
1	2	QPSK	3/4	19.5	40.5	21.7	45.0
1	3	16-QAM	1/2	26.0	54.0	28.9	60.0
1	4	16-QAM	3/4	39.0	81.0	43.3	90.0
1	5	64-QAM	2/3	52.0	108.0	57.8	120.0
1	6	64-QAM	3/4	58.5	121.5	65.0	135.0
1	7	64-QAM	5/6	65.0	135.0	72.2	150.0
2	8	BPSK	1/2	13	27	14.4	30
2	9	QPSK	1/2	26	54	28.8	60
2	10	QPSK	3/4	39	81	43.4	90
2	11	16-QAM	1/2	52	108	57.8	120
2	12	16-QAM	3/4	78	162	86.6	180
2	13	64-QAM	2/3	104	216	115.6	240
2	14	64-QAM	3/4	117	243	130	270
2	15	64-QAM	5/6	130	270	144.4	300

IEEE 802.11ax

Spatial streames	MCS Index	Modulation	R	Data Rate(Mb/s)					
				800ns GI		1600ns GI		3200ns GI	
				20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
1	0	BPSK	1/2	8.6	17.2	8.1	16.3	7.3	14.6
1	1	QPSK	1/2	17.2	34.4	16.3	32.5	14.6	29.3
1	2	QPSK	3/4	25.8	51.6	24.4	48.8	21.9	43.9
1	3	16-QAM	1/2	34.4	68.8	32.5	65	29.3	58.5
1	4	16-QAM	3/4	51.6	103.2	48.8	97.5	43.9	87.8
1	5	64-QAM	2/3	68.8	137.6	65	130	58.5	117
1	6	64-QAM	3/4	77.4	154.9	73.1	146.3	65.8	131.6
1	7	64-QAM	5/6	86	172.1	81.3	162.5	73.1	146.3
1	8	256QAM	3/4	103.2	206.5	97.5	195	87.8	175.5
1	9	256QAM	5/6	114.7	229.4	108.3	216.7	97.5	195
1	10	1024QAM	3/4	129	258.1	121.9	243.8	109.7	219.4
1	11	1024QAM	5/6	143.4	286.8	135.4	270.8	121.9	243.8
2	0	BPSK	1/2	17.2	34.4	16.2	32.6	14.6	29.2
2	1	QPSK	1/2	34.4	68.8	32.6	65	29.2	58.6
2	2	QPSK	3/4	51.6	103.2	48.8	97.6	43.8	87.8
2	3	16-QAM	1/2	68.8	137.6	65	130	58.6	117
2	4	16-QAM	3/4	103.2	206.4	97.6	195	87.8	175.6
2	5	64-QAM	2/3	137.6	275.2	130	260	117	234
2	6	64-QAM	3/4	154.8	309.8	146.2	292.6	131.6	263.2
2	7	64-QAM	5/6	172	344.2	162.6	325	146.2	292.6
2	8	256QAM	3/4	206.4	413	195	390	175.6	351
2	9	256QAM	5/6	229.4	458.8	216.6	433.4	195	390
2	10	1024QAM	3/4	258	516.2	243.8	487.6	219.4	438.8
2	11	1024QAM	5/6	286.8	573.6	270.8	541.6	243.8	487.6

Symbol	Explanation
R	Code rate
GI	guard interval

Note: We have evaluated low/mid/high data rate, the blue font is the highest power data rate.

1.4 Channel List

IEEE 802.11b/g & IEEE 802.11n (20MHz) & IEEE 802.11ax (20MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412 MHz	2	2417 MHz	3	2422 MHz	4	2427 MHz
5	2432 MHz	6	2437 MHz	7	2442 MHz	8	2447 MHz
9	2452 MHz	10	2457 MHz	11	2462 MHz	-	-

IEEE 802.11n(40MHz) & IEEE 802.11ax (40MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422 MHz	4	2427 MHz	5	2432 MHz	6	2437 MHz
7	2442 MHz	8	2447 MHz	9	2452 MHz	-	-

Note: The General Description of the Item, antenna information, Test 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 802.11b
	Mode 2: Transmit by 802.11g
	Mode 3: Transmit by 802.11n(20MHz)
	Mode 4: Transmit by 802.11n(40MHz)
	Mode 5: Transmit by 802.11ax(20MHz)
	Mode 6: Transmit by 802.11ax(40MHz)

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

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

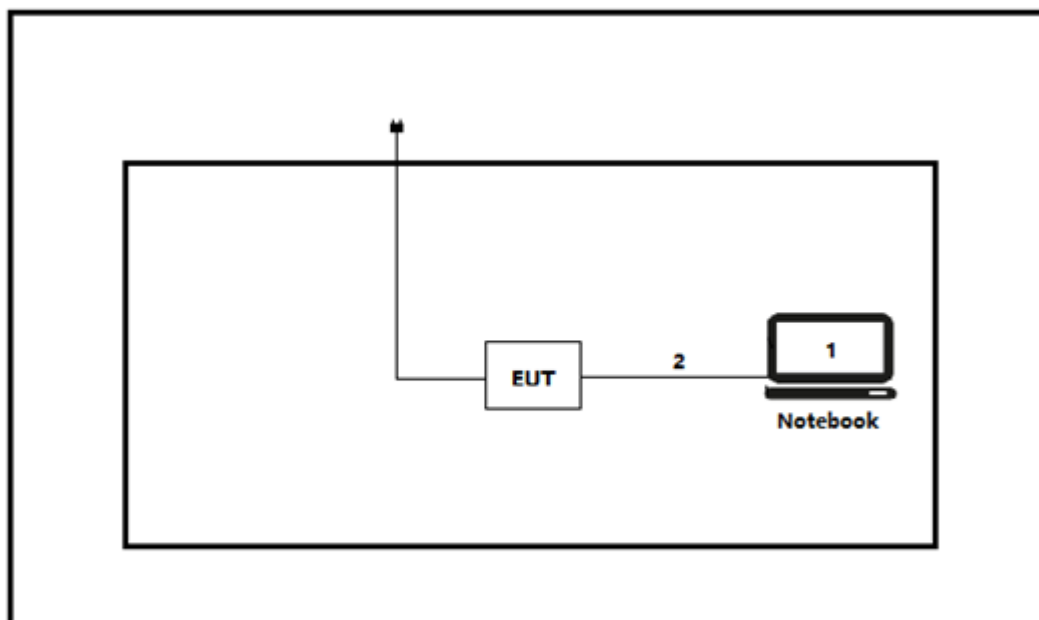
2.2 Auxiliary equipment / Test software for the EUT

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/
software	Type / Version	Manufacturer	Supplied by
QRCT	V4.0	N/A	N/A

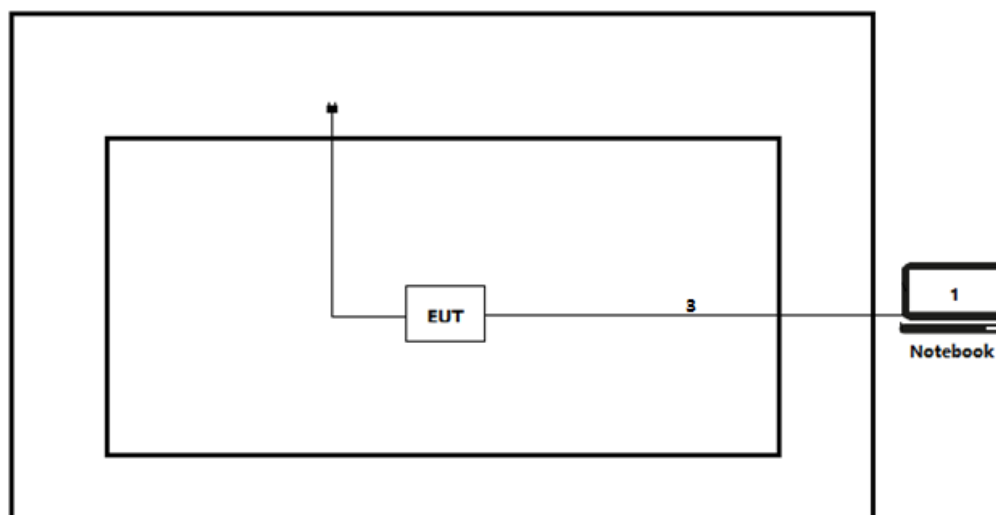
Accessories Information	Cable		
	Length used during test [m]	Attached during test	Shielded
(2)USB Control Cable	1	☒	☒
(3)USB Control Cable	8	☒	☒

2.3 Test Configuration / Block diagram used for tests

Test setup Diagram- Conducted test



Test setup Diagram- Radiated Emission



2.4 Testing process

1	Setup the EUT as shown in Section 2.3.
2	Run the software “QRCT” on the notebook computer.
3	Open the serial port and enter the corresponding commands to configure the test mode, test channel, test power and 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 C Section 15.247	2024	Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz.
ANSI C63.10	2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
KDB 558074 D01V05r02	2019	Guidance for performing compliance measurements on Digital Transmission System (DTS) operating under section 15.247
RSS-Gen Issue 5 Amendment 2	2021	General Requirements for Compliance of Radio Apparatus
KDB 662911	2020	Provision to Allow Measurement of Directional Gain of Multi-Antenna Systems for Compliance Verification
RSS-247 Issue 3	2023	Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices

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 Item of FCC	Standard(s)	Verdict	Remark
Maximum Conducted Output Power	15.247 (b)(3)	PASS	Test data please refer to Appendix A
Emissions in Restricted Bands	FCC 15.205 FCC 15.209	PASS	Test data please refer to Appendix B

Requirement – Test case of ISED	Standard(s)	Verdict	Remark
Maximum Conducted Output Power	RSS-247 Issue 3 Paragraph 5.4(d)	PASS	Test data please refer to Appendix A
Emissions in Restricted Bands	RSS-Gen Issue 5 Paragraph 8.9	PASS	Test data please refer to Appendix B

3.4 Power setting in test

Mode	Channel	Frequency (MHz)	Power setting		
			SISO:ANT1	SISO:ANT2	CDD:ANT1+2
Mode1	01	2412	18.50	16.50	N/A
	06	2437	16.50	16.50	N/A
	11	2462	18.50	16.00	N/A
Mode2	01	2412	14.50	15.50	N/A
	06	2437	14.00	15.00	N/A
	11	2462	14.50	15.00	N/A
Mode3	01	2412	14.50	15.00	12.00
	06	2437	14.00	15.00	12.00
	11	2462	14.50	14.50	12.50
Mode4	03	2422	13.50	13.50	12.00
	06	2437	14.00	15.00	12.00
	09	2452	13.00	14.50	12.50
Mode5	01	2412	14.50	15.00	12.00
	06	2437	14.00	14.50	12.00
	11	2462	13.50	14.50	12.50
Mode6	03	2422	13.50	13.50	12.00
	06	2437	14.00	15.00	12.00
	09	2452	13.50	14.50	12.50

3.5 Test Matrix

Test item	Model: EMC-M51C	
	1(#1)	2(#2)
Maximum Conducted Output Power	☒	☐
Emissions in Restricted Bands	☐	☒
Note1: The only difference between sample #1 and sample #2 is whether to keep the original antenna, sample #1 is a conduction test product that removes the original antenna and is equipped with SMA wires, and sample #2 is a complete product that retains the original antenna.		

3.6 Test Facility

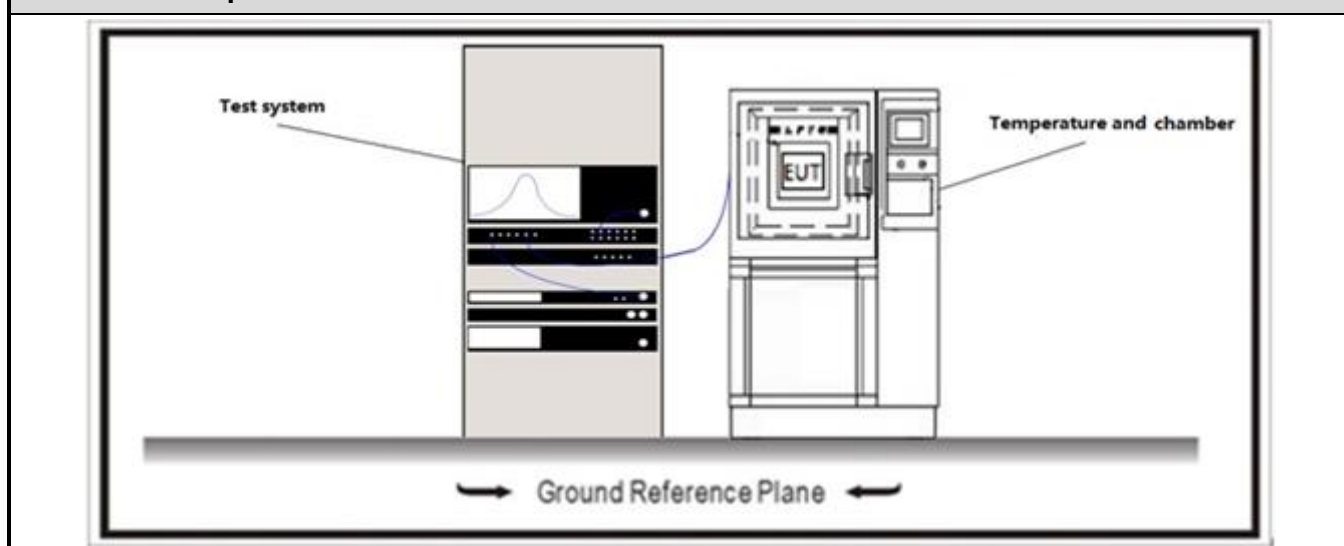
USA	:	FCC Designation Number: CN1199
CA	:	ISED CAB identifier: CN0040

4 TEST RESULTS

4.1 Maximum Conducted Output Power	VERDICT: PASS
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4.1.1 Limit			
Standard		FCC Part 15 Subpart C Paragraph 15.247 (b)(3); RSS-247 Issue 2 Paragraph 5.4(d).	
☒	GTX < 6dBi		Pout≤30dBm
☐	GTX > 6dBi		
	☐	Non-Fix point-point	Pout≤30-(GTX -6)
	☐	Fix point-point	Pout≤30-[(GTX-6)]/3
	☐	Point-to-multipoint	Pout≤30-(GTX-6)
	☐	Overlap Beams	Pout≤30-[(GTX-6)]/3
	☐	Aggregate power transmitted simultaneously on all beams	Pout≤30-[(GTX-6)]/3
	☐	single directional beam	Pout≤30-[(GTX-6)]/3+8dB
Note 1 : GTX directional gain of transmitting antennas.			
Note 2 : Pout is maximum peak conducted output power .			

4.1.2 Test Setup



4.1.3 Test Procedure

	References Rule			Chapter	Description	
☒	ANSI C63.10			11.9	Fundamental emission output power	
	☒	ANSI C63.10		11.9.1	Maximum peak conducted output power	
		☐	ANSI C63.10	11.9.1.1	RBW ≥ DTS bandwidth	
		☐	ANSI C63.10	11.9.1.2	Integrated band power method	
		☐	ANSI C63.10	11.9.1.3	PKPM1 Peak power meter method	
	☐	ANSI C63.10		11.9.2	Maximum conducted (average) output power	
		☐	ANSI C63.10		11.9.2.2	Measurement using a spectrum analyzer (SA)
			☐	ANSI C63.10	11.9.2.2.2	Method AVGSA-1(Duty cycle ≥98%)
			☐	ANSI C63.10	11.9.2.2.3	Method AVGSA-1A(Duty cycle ≥98%)
			☐	ANSI C63.10	11.9.2.2.4	Method AVGSA-2(Duty cycle ≤98%)
			☐	ANSI C63.10	11.9.2.2.5	Method AVGSA-2A(Duty cycle ≤98%)
			☐	ANSI C63.10	11.9.2.2.4	Method AVGSA-3
			☐	ANSI C63.10	11.9.2.2.5	Method AVGSA-3A
		☒	ANSI C63.10		11.9.2.3	Measurement using a power meter (PM)
			☒	ANSI C63.10	11.9.2.3.1	Method AVGPM
			☐	ANSI C63.10	11.9.2.3.2	Method AVGPM-G

4.2 Emissions in Restricted Bands**VERDICT: PASS****4.2.1 Limit**

Standard	FCC Part 15 Subpart C Paragraph 15.205
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Restricted Bands of operation for FCC

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			

Standard	RSS-Gen Issue 5 Paragraph 8.10
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Restricted Bands of operation for IC

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	13.36 - 13.41	960 - 1427	9.0 - 9.2
0.495 - 0.505	16.42 - 16.423	1435 - 1626.5	9.3 - 9.5
2.1735 - 2.1905	16.69475 - 16.69525	1645.5 - 1646.5	10.6 - 12.7
3.020 - 3.026	16.80425 - 16.80475	1660 - 1710	13.25 - 13.4
4.125 - 4.128	25.5 - 25.67	1718.8 - 1722.2	14.47 - 14.5
4.17725 - 4.17775	37.5 - 38.25	2200 - 2300	15.35 - 16.2
4.20725 - 4.20775	73 - 74.6	2310 - 2390	17.7 - 21.4
5.677 - 5.683	74.8 - 75.2	2483.5 - 2500	22.01 - 23.12
6.215 - 6.218	108 - 138	2655 - 2900	23.6 - 24.0
6.26775 - 6.26825	149.9 - 150.05	3260 - 3267	31.2 - 31.8
6.31175 - 6.31225	156.52475 - 156.52525	3332 - 3339	36.43 - 36.5
8.291 - 8.294	156.7 - 156.9	3345.8 - 3358	Above 38.6
8.362 - 8.366	162.0125 - 167.17	3500 - 4400	
8.37625 - 8.38675	167.72 - 173.2	4500 - 5150	
8.41425 - 8.41475	240 - 285	5350 - 5460	
12.29 - 12.293	322 - 335.4	7250 - 7750	
12.51975 - 12.52025	399.9 - 410	8025 - 8500	
12.57675 - 12.57725	608 - 614	--	

Restricted Band Emissions Limit

FCC Part 15 Subpart C Paragraph 15.209

Frequency (MHz)	Field strength ($\mu\text{V/m}$)	Field strength (dB $\mu\text{V/m}$)	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)

RSS-Gen Issue 5 Paragraph 8.9.

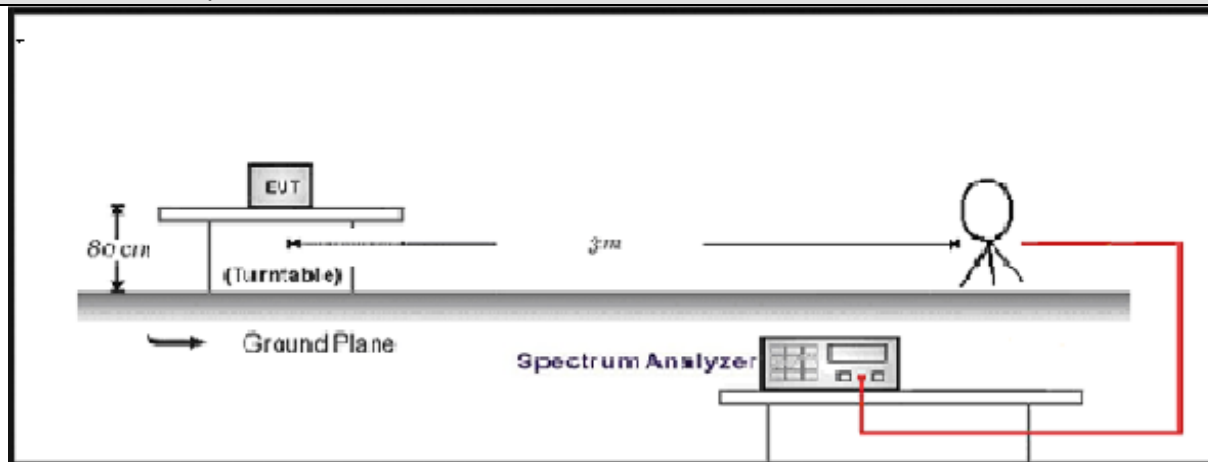
Frequency (MHz)	Field strength	Field strength (dB $\mu\text{V/m}$)	Measurement distance (m)
0.009 - 0.49	6.37/F(kHz) $\mu\text{A/m}$	48.5 – 13.8	300 _(Note 1)
0.49 - 1.705	63.7/F(kHz) $\mu\text{A/m}$	33.8 - 23	30 _(Note 1)
1.705 - 30	30 $\mu\text{V/m}$	29.5	30 _(Note 1)
30 - 88	100 $\mu\text{V/m}$	40	3 _(Note 2)
88 - 216	150 $\mu\text{V/m}$	43.5	3 _(Note 2)
216 - 960	200 $\mu\text{V/m}$	46	3 _(Note 2)
Above 960	500 $\mu\text{V/m}$	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).

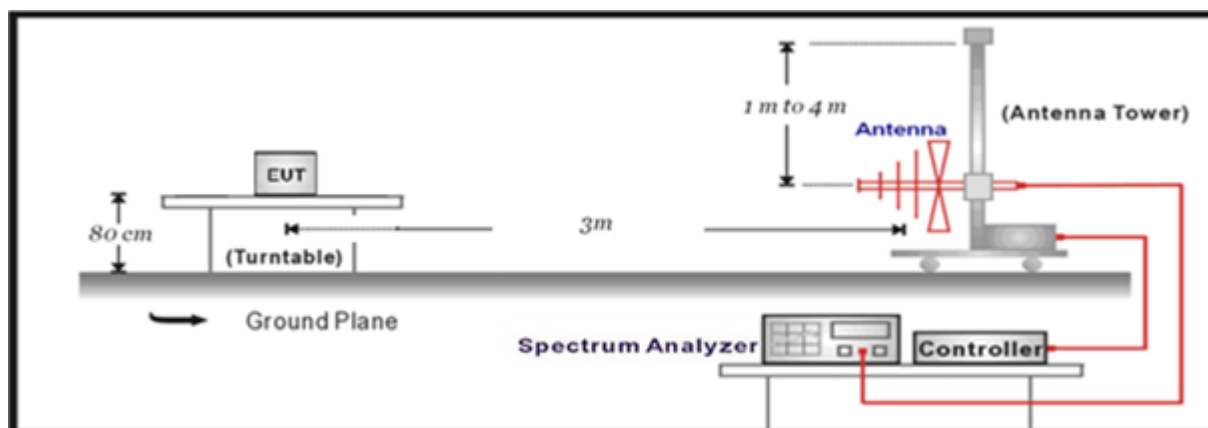
Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated 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).

4.2.2 Test Setup

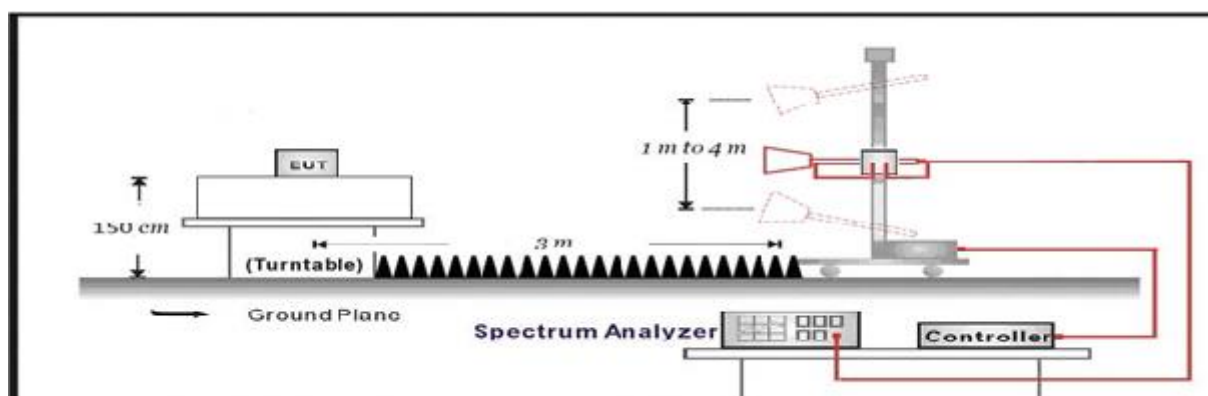
Below 30MHz Test Setup:



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

5 TEST SETUP PHOTO AND EUT PHOTO

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

6 TEST RESULT

Appendix A: Maximum Conducted Output Power

SISO:									
Mode	Channel	Test Frequency (MHz)	Conducted Power (dBm)		EIRP (dBm)		Conducted Power Limit (dBm)	EIRP Limit (dBm)	Result
			ANT1	ANT2	ANT1	ANT2			
Mode 1	1	2412	18.36	16.62	16.86	15.12	≤30	≤36	PASS
	6	2437	16.39	16.44	14.89	14.94	≤30	≤36	PASS
	11	2462	18.15	16.08	16.65	14.58	≤30	≤36	PASS
Mode 2	1	2412	14.56	15.24	13.06	13.74	≤30	≤36	PASS
	6	2437	13.82	14.86	12.32	13.36	≤30	≤36	PASS
	11	2462	14.75	14.94	13.25	13.44	≤30	≤36	PASS
Mode 3	1	2412	14.47	15.09	12.97	13.59	≤30	≤36	PASS
	6	2437	13.88	14.81	12.38	13.31	≤30	≤36	PASS
	11	2462	14.34	14.62	12.84	13.12	≤30	≤36	PASS
Mode 4	3	2422	13.36	13.35	11.86	11.85	≤30	≤36	PASS
	6	2437	13.98	14.97	12.48	13.47	≤30	≤36	PASS
	9	2452	12.94	14.66	11.44	13.16	≤30	≤36	PASS
Mode 5	1	2412	14.35	15.02	12.85	13.52	≤30	≤36	PASS
	6	2437	13.84	14.68	12.34	13.18	≤30	≤36	PASS
	11	2462	13.11	14.64	11.61	13.14	≤30	≤36	PASS
Mode 6	3	2422	13.23	13.65	11.73	12.15	≤30	≤36	PASS
	6	2437	13.99	14.93	12.49	13.43	≤30	≤36	PASS
	9	2452	13.36	14.64	11.86	13.14	≤30	≤36	PASS
CDD:									
Mode	Channel	Test Frequency (MHz)	Conducted Power (dBm)	EIRP (dBm)	Conducted Power Limit (dBm)	EIRP Limit (dBm)	Result		
Mode 3	1	2412	15.12	13.62	≤30	≤36	PASS		
	6	2437	14.63	13.13	≤30	≤36	PASS		
	11	2462	15.27	13.77	≤30	≤36	PASS		
Mode 4	3	2422	14.96	13.46	≤30	≤36	PASS		
	6	2437	14.88	13.38	≤30	≤36	PASS		
	9	2452	15.30	13.80	≤30	≤36	PASS		
Mode 5	1	2412	15.14	13.64	≤30	≤36	PASS		
	6	2437	14.62	13.12	≤30	≤36	PASS		
	11	2462	15.25	13.75	≤30	≤36	PASS		

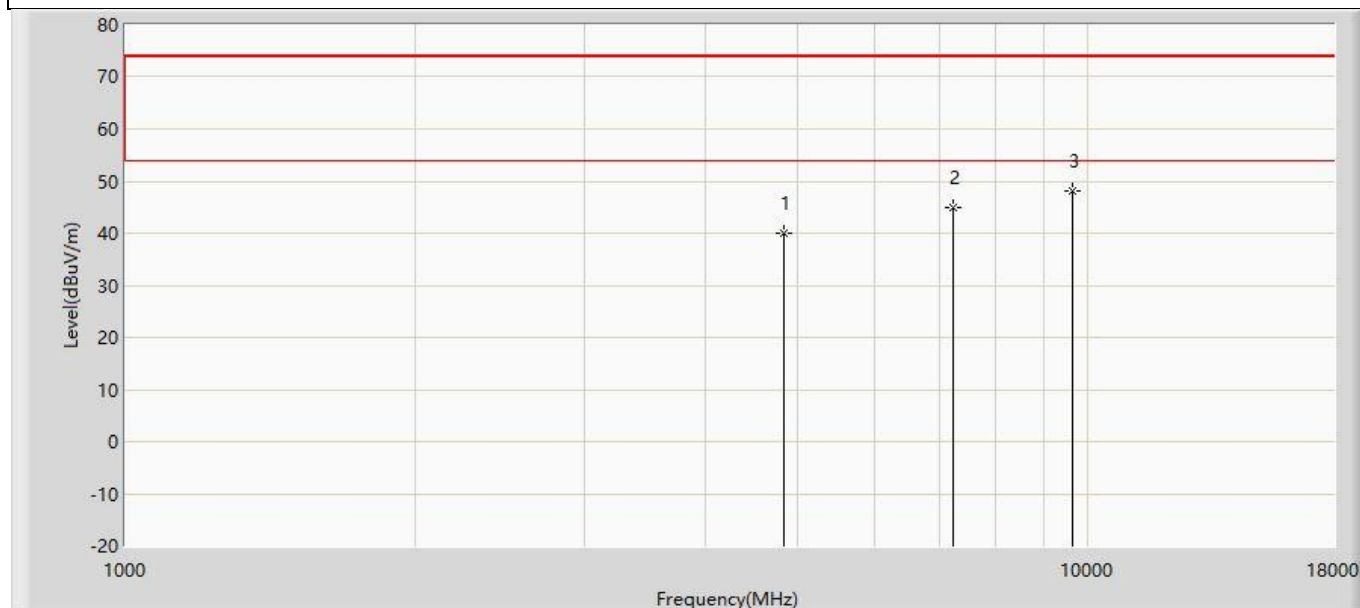
Mode 6	3	2422	14.95	13.45	≤ 30	≤ 36	PASS
	6	2437	14.80	13.30	≤ 30	≤ 36	PASS
	9	2452	15.17	13.67	≤ 30	≤ 36	PASS

Note 1: EIRP Power = Conducted Power + Antenna gain

Note 2: The Antenna gain please refer to clause 1.2

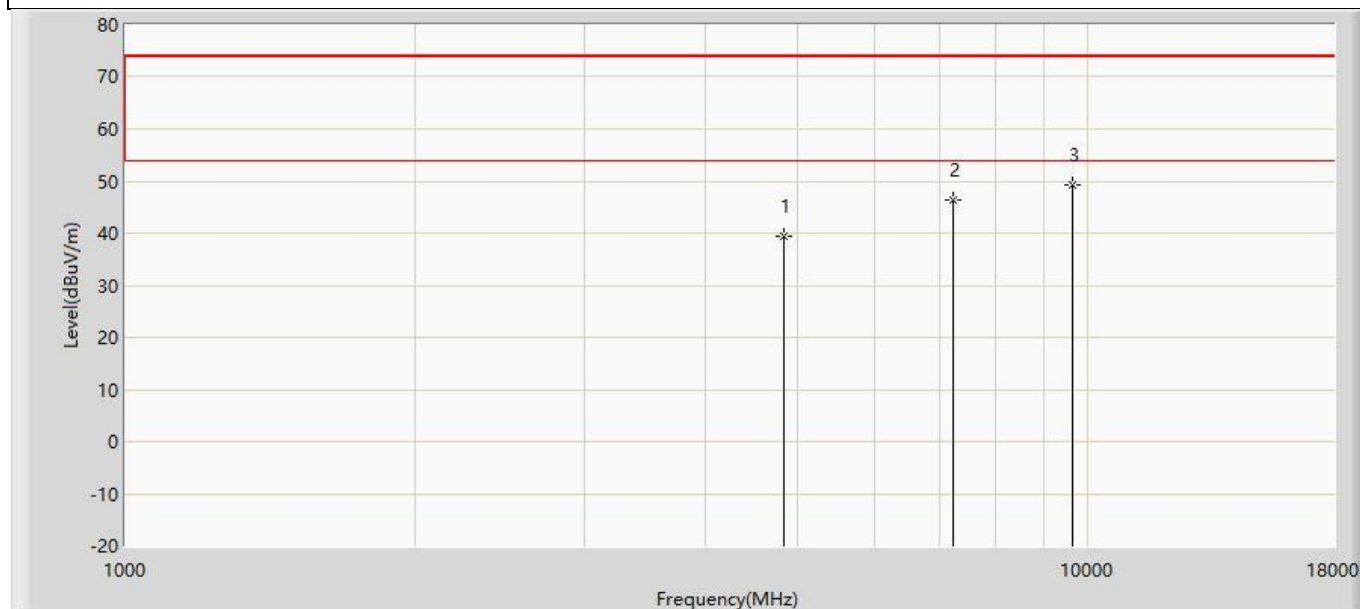
Appendix B: Emissions in Restricted Bands

Profile: 2390782R	Page No.: 37
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:15
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 1 : Transmit at 2412MHz by 802.11b with Ant1	



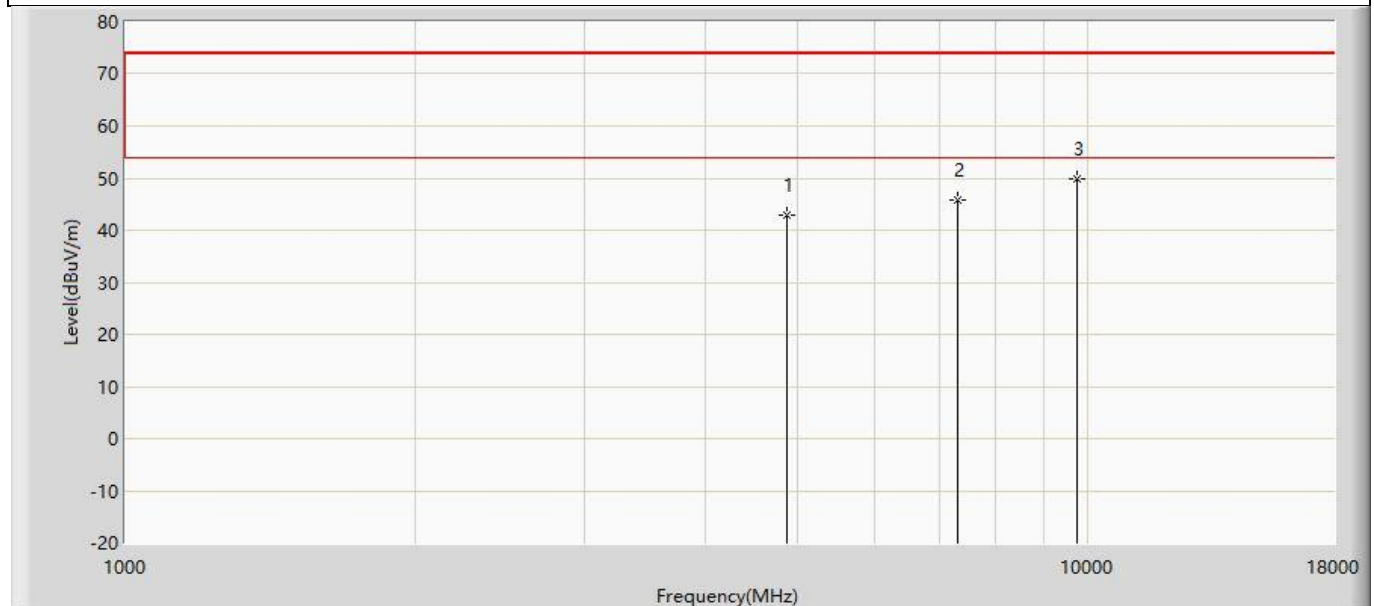
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	40.020	51.940	-33.980	74.000	-11.920	PK
2		7236.000	44.991	51.625	-29.009	74.000	-6.634	PK
3	*	9648.000	48.249	52.023	-25.751	74.000	-3.774	PK

Profile: 2390782R	Page No.: 38
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:15
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 1 : Transmit at 2412MHz by 802.11b with Ant1	



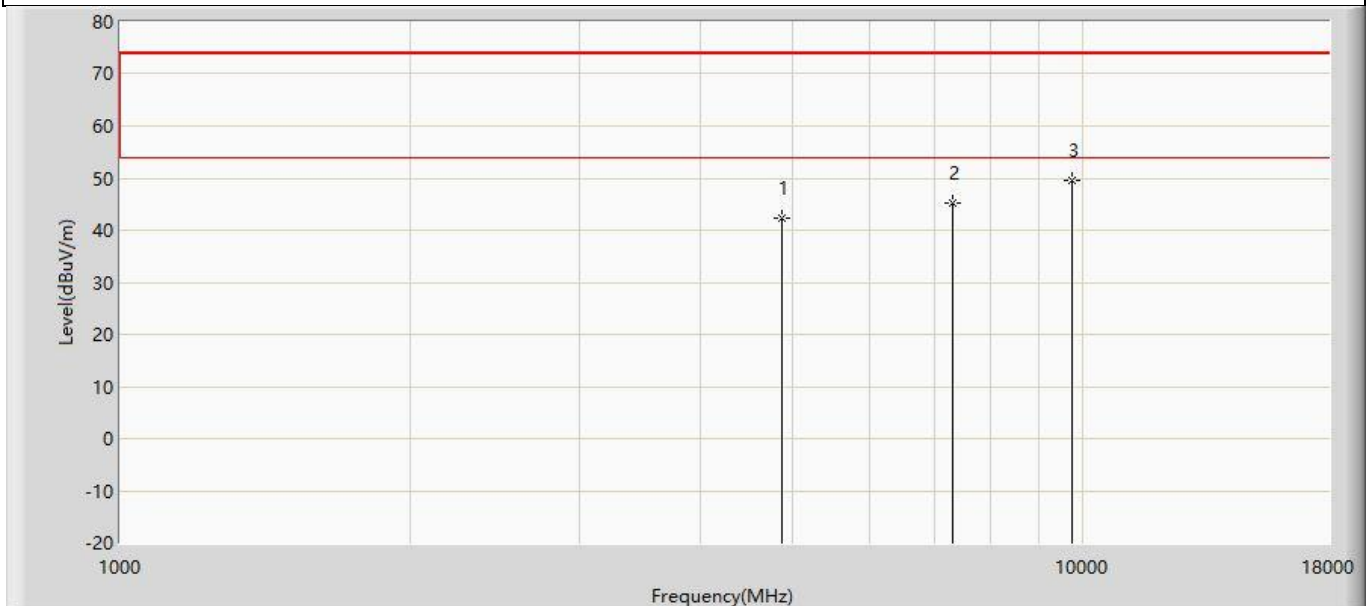
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	39.457	51.377	-34.543	74.000	-11.920	PK
2		7236.000	46.274	52.908	-27.726	74.000	-6.634	PK
3	*	9648.000	49.231	53.005	-24.769	74.000	-3.774	PK

Profile: 2390782R	Page No.: 39
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:15
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 1 : Transmit at 2437MHz by 802.11b with Ant1	



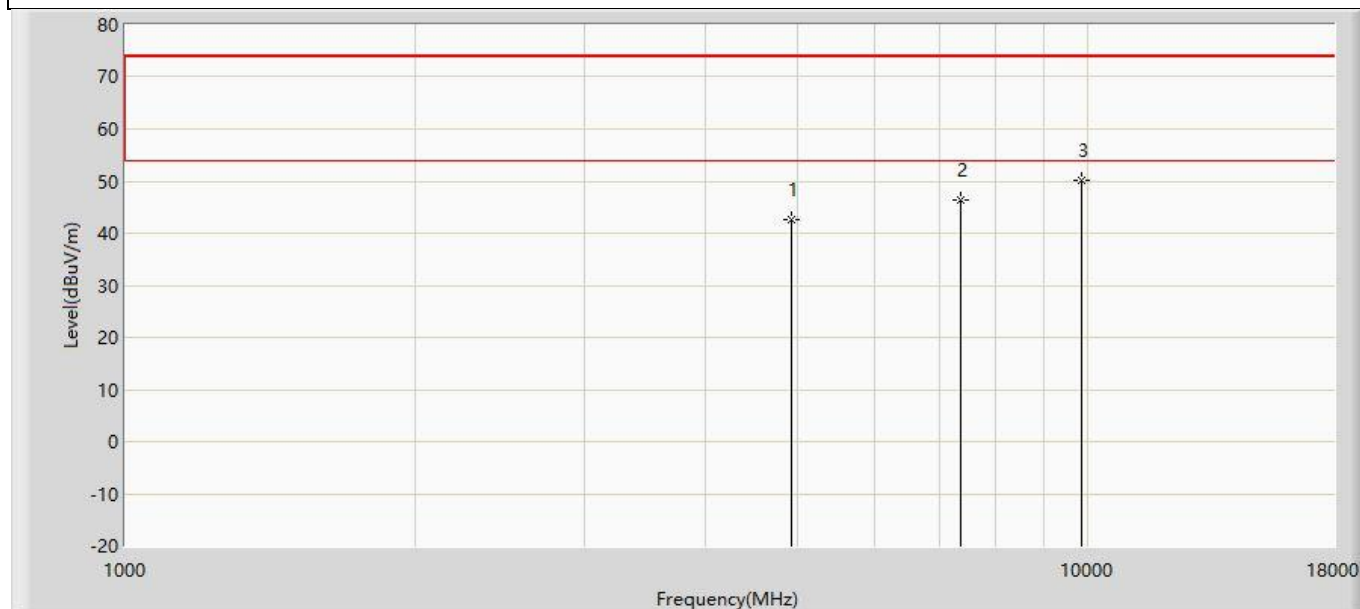
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	42.805	53.279	-31.195	74.000	-10.474	PK
2		7311.000	45.939	53.074	-28.061	74.000	-7.135	PK
3	*	9748.000	49.820	52.714	-24.180	74.000	-2.893	PK

Profile: 2390782R	Page No.: 40
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:16
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 1 : Transmit at 2437MHz by 802.11b with Ant1	



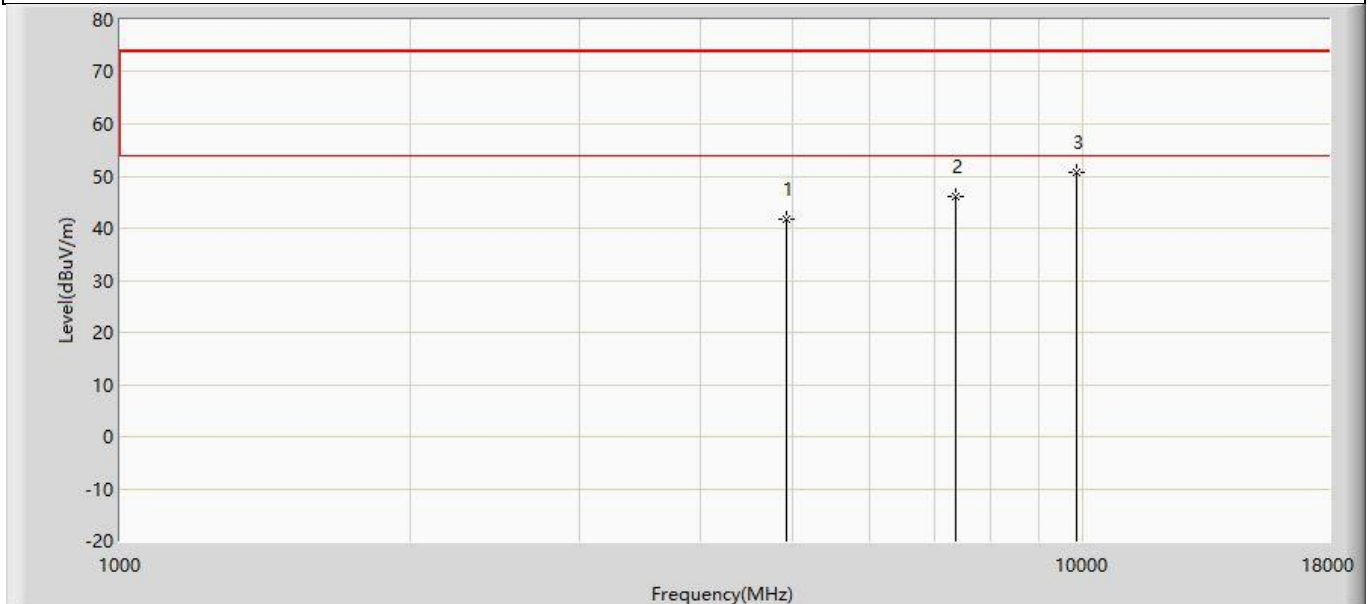
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	42.454	52.928	-31.546	74.000	-10.474	PK
2		7311.000	45.124	52.259	-28.876	74.000	-7.135	PK
3	*	9748.000	49.568	52.462	-24.432	74.000	-2.893	PK

Profile: 2390782R	Page No.: 41
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:16
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 1 : Transmit at 2462MHz by 802.11b with Ant1	



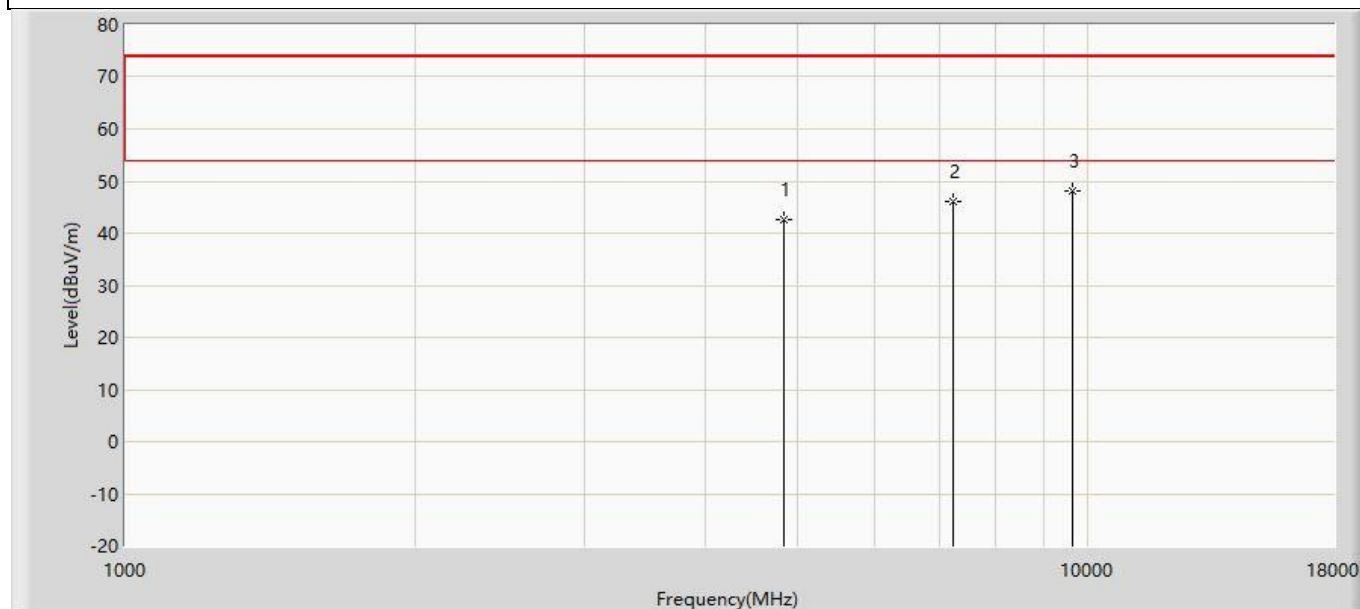
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	42.608	54.219	-31.392	74.000	-11.611	PK
2		7386.000	46.240	52.855	-27.760	74.000	-6.615	PK
3	*	9848.000	50.034	52.500	-23.966	74.000	-2.466	PK

Profile: 2390782R	Page No.: 42
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:16
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 1 : Transmit at 2462MHz by 802.11b with Ant1	



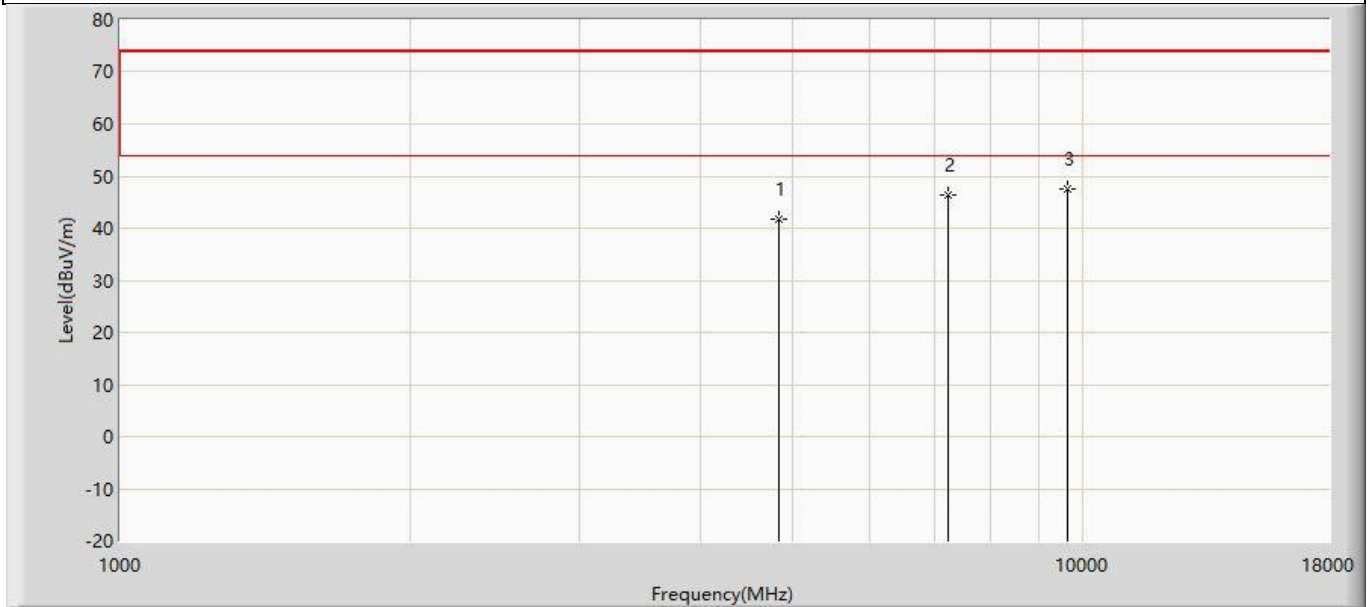
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	41.680	53.291	-32.320	74.000	-11.611	PK
2		7386.000	46.201	52.816	-27.799	74.000	-6.615	PK
3	*	9848.000	50.779	53.245	-23.221	74.000	-2.466	PK

Profile: 2390782R	Page No.: 43
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:16
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 2 : Transmit at 2412MHz by 802.11g with Ant1	



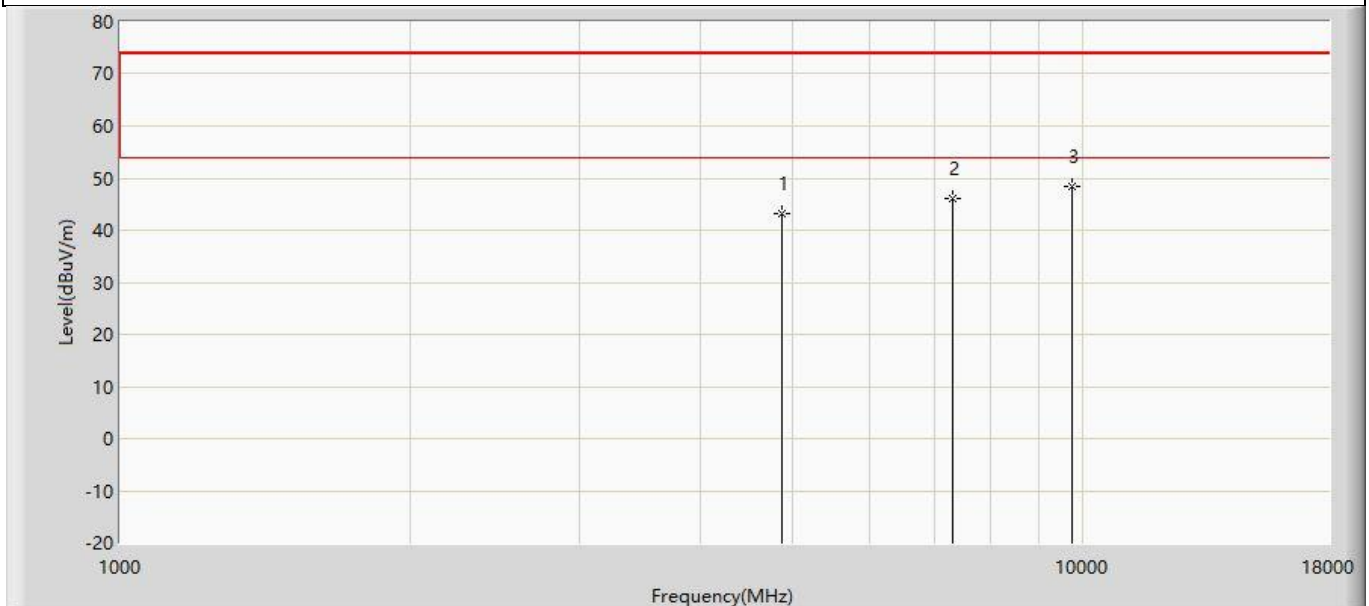
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	42.570	54.490	-31.430	74.000	-11.920	PK
2		7236.000	46.110	52.744	-27.890	74.000	-6.634	PK
3	*	9648.000	47.987	51.761	-26.013	74.000	-3.774	PK

Profile: 2390782R	Page No.: 44
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:16
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 2 : Transmit at 2412MHz by 802.11g with Ant1	



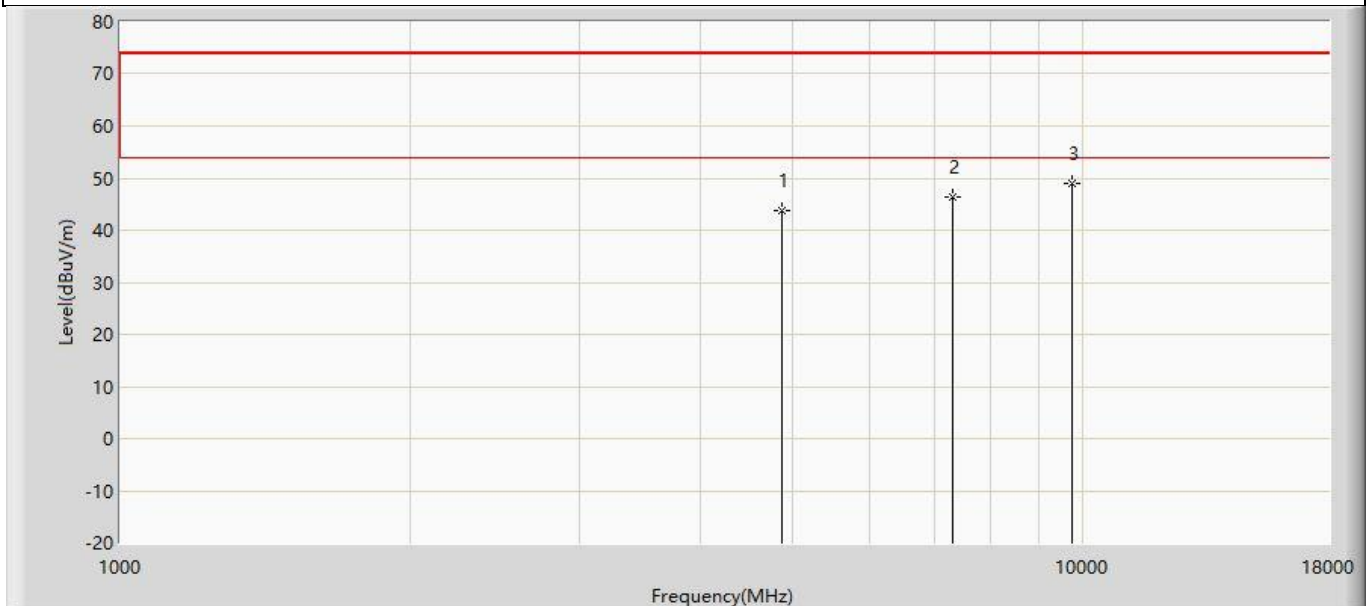
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	41.731	53.651	-32.269	74.000	-11.920	PK
2		7236.000	46.336	52.970	-27.664	74.000	-6.634	PK
3	*	9648.000	47.400	51.174	-26.600	74.000	-3.774	PK

Profile: 2390782R	Page No.: 45
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:16
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 2 : Transmit at 2437MHz by 802.11g with Ant1	



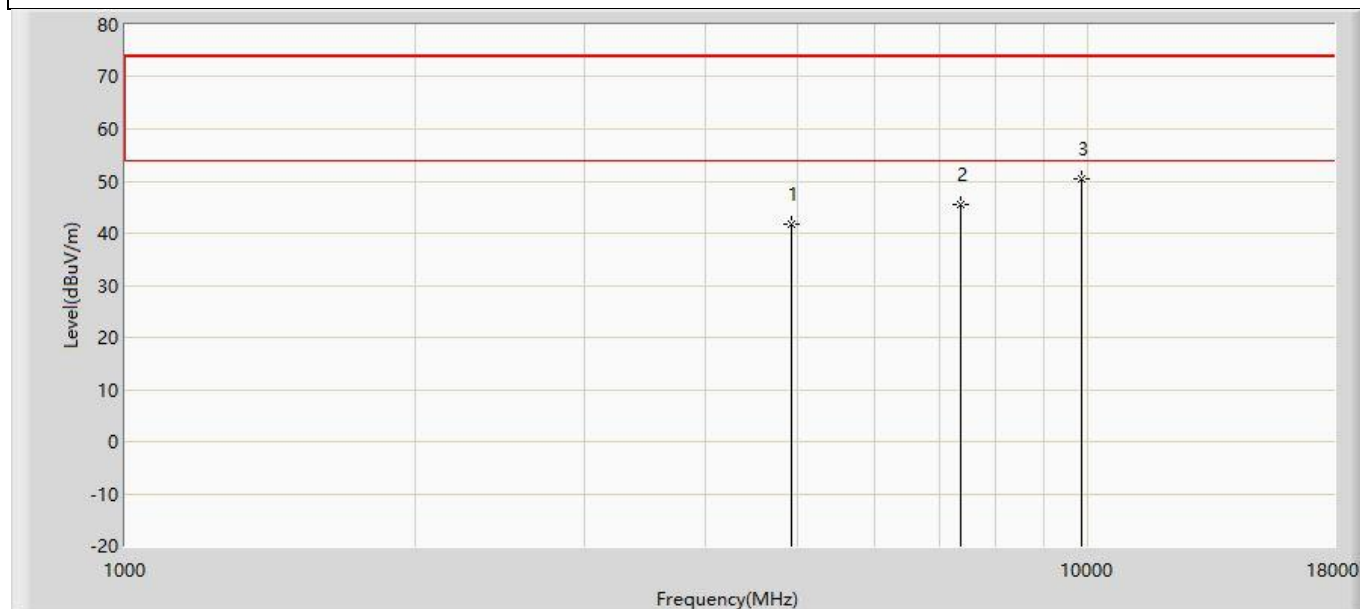
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	43.150	53.624	-30.850	74.000	-10.474	PK
2		7311.000	46.173	53.308	-27.827	74.000	-7.135	PK
3	*	9748.000	48.494	51.388	-25.506	74.000	-2.893	PK

Profile: 2390782R	Page No.: 46
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:16
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 2 : Transmit at 2437MHz by 802.11g with Ant1	



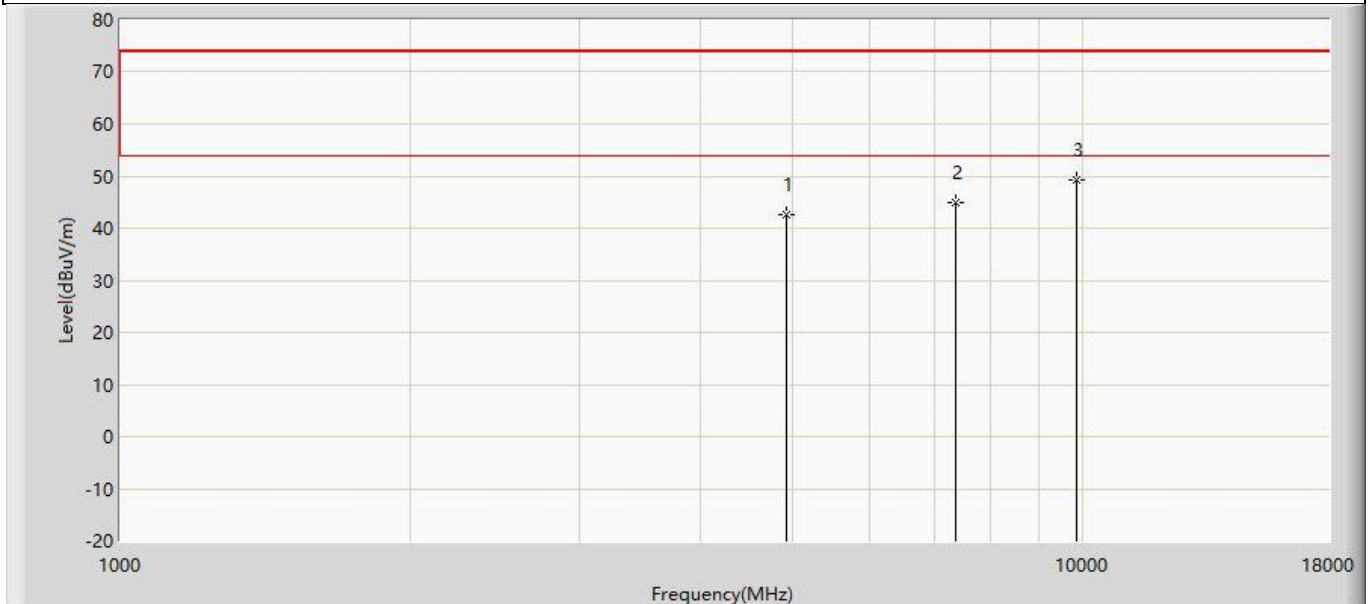
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	43.738	54.212	-30.262	74.000	-10.474	PK
2		7311.000	46.250	53.385	-27.750	74.000	-7.135	PK
3	*	9748.000	48.867	51.761	-25.133	74.000	-2.893	PK

Profile: 2390782R	Page No.: 47
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:16
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 2 : Transmit at 2462MHz by 802.11g with Ant1	



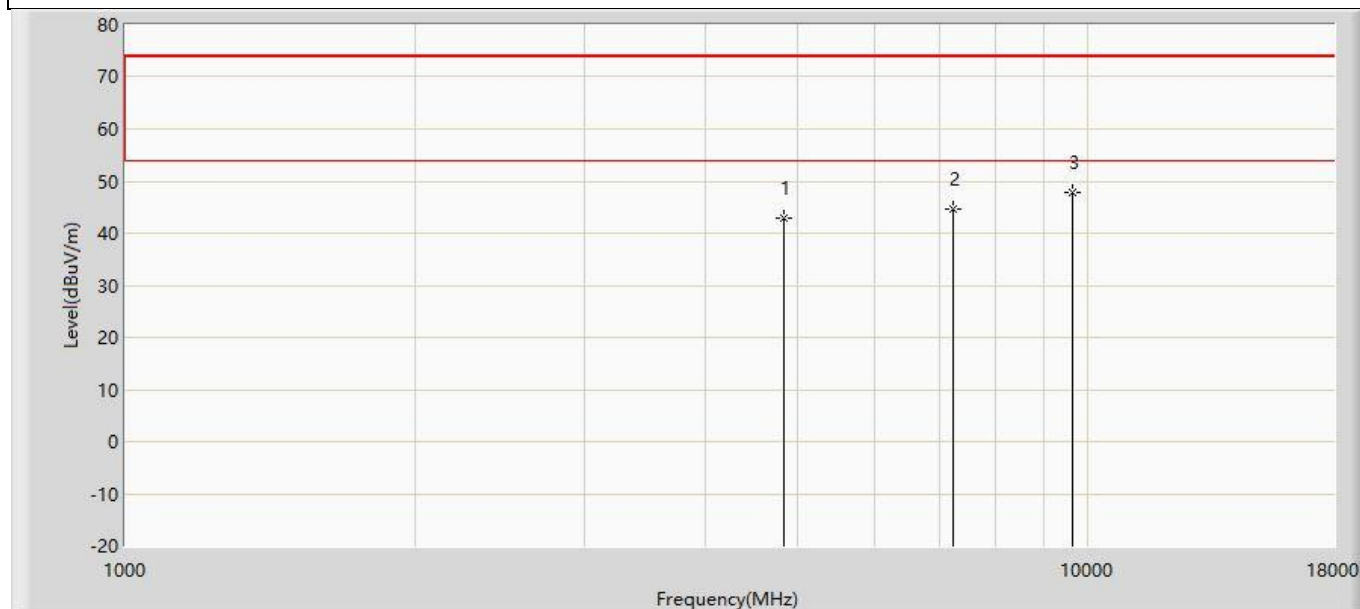
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	41.627	53.238	-32.373	74.000	-11.611	PK
2		7386.000	45.456	52.071	-28.544	74.000	-6.615	PK
3	*	9848.000	50.322	52.788	-23.678	74.000	-2.466	PK

Profile: 2390782R	Page No.: 48
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:16
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 2 : Transmit at 2462MHz by 802.11g with Ant1	



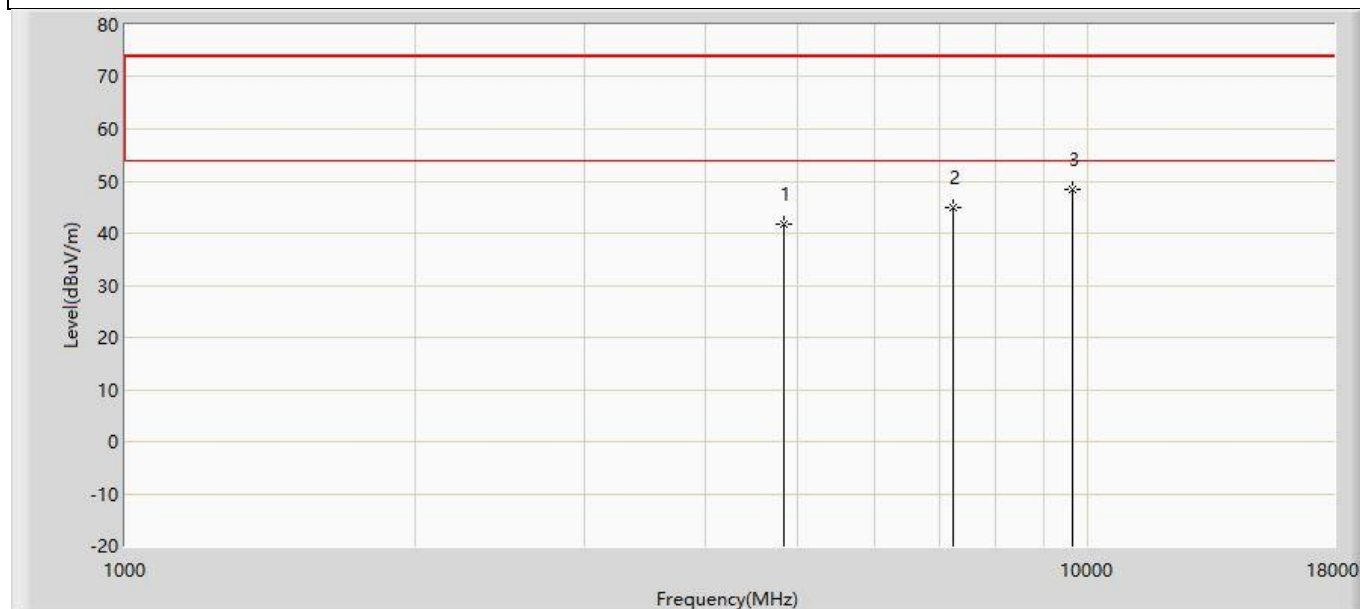
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	42.700	54.311	-31.300	74.000	-11.611	PK
2		7386.000	44.952	51.567	-29.048	74.000	-6.615	PK
3	*	9848.000	49.251	51.717	-24.749	74.000	-2.466	PK

Profile: 2390782R	Page No.: 49
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:16
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 3 : Transmit at 2412MHz by 802.11n(20MHz) with Ant1	



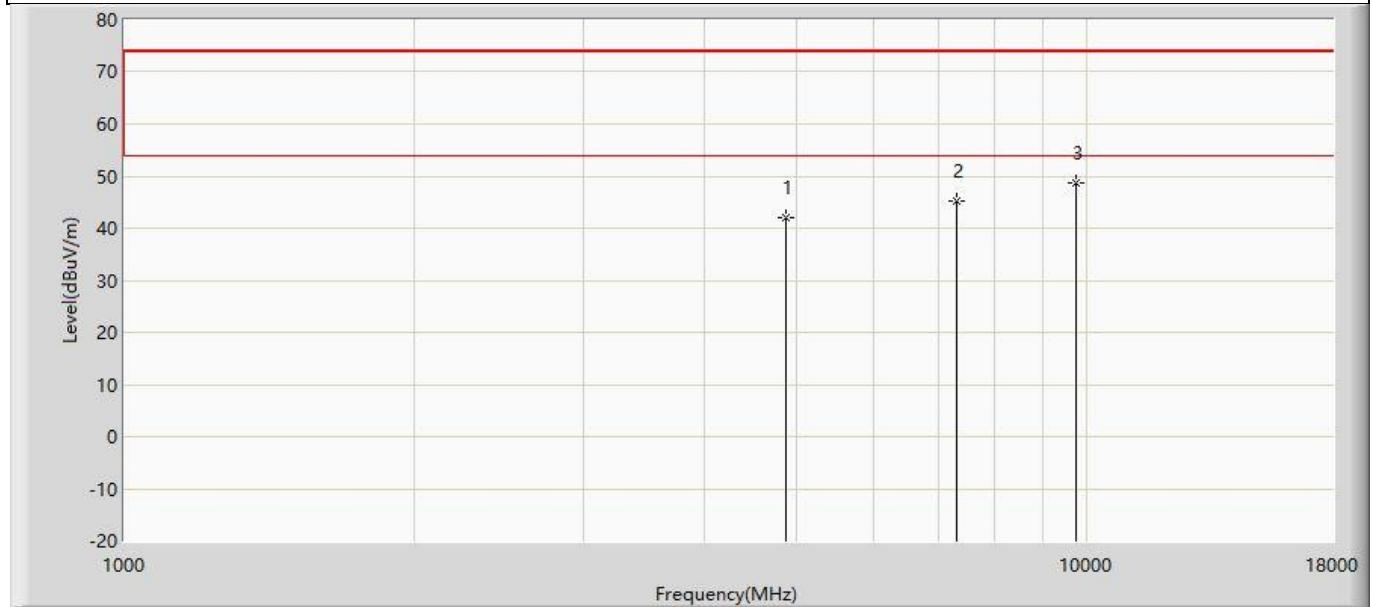
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	42.871	54.791	-31.129	74.000	-11.920	PK
2		7236.000	44.714	51.348	-29.286	74.000	-6.634	PK
3	*	9648.000	47.779	51.553	-26.221	74.000	-3.774	PK

Profile: 2390782R	Page No.: 50
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:16
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 3 : Transmit at 2412MHz by 802.11n(20MHz) with Ant1	



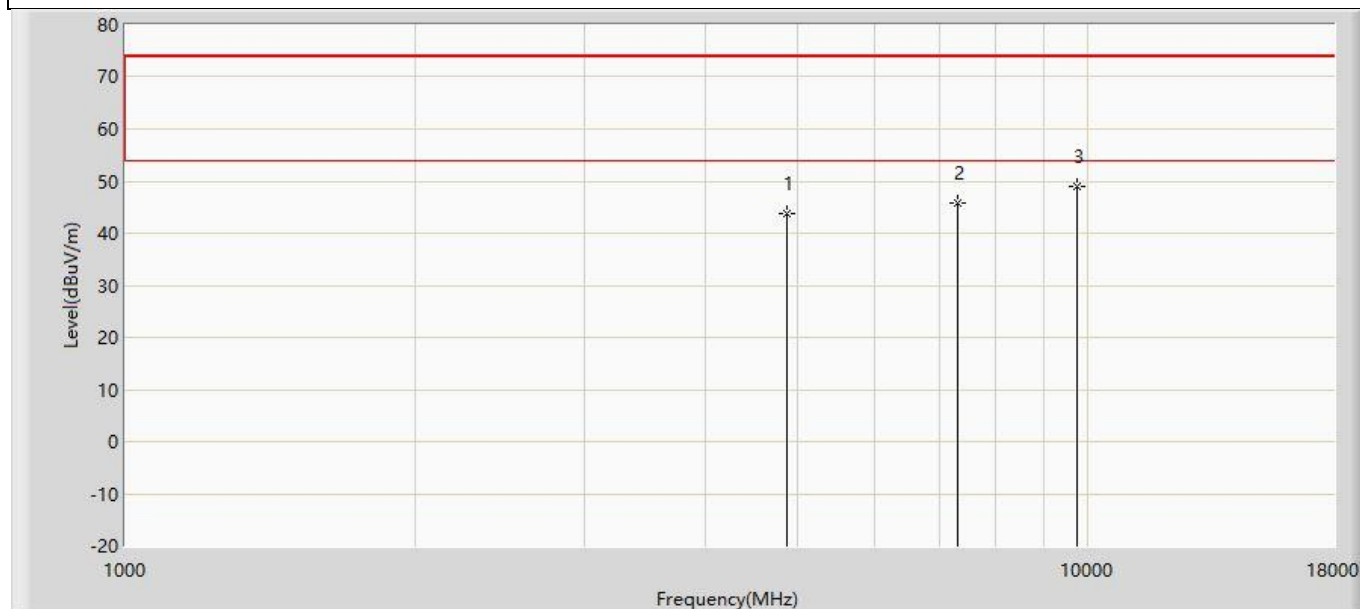
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	41.662	53.582	-32.338	74.000	-11.920	PK
2		7236.000	44.949	51.583	-29.051	74.000	-6.634	PK
3	*	9648.000	48.374	52.148	-25.626	74.000	-3.774	PK

Profile: 2390782R	Page No.: 51
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:16
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 3 : Transmit at 2437MHz by 802.11n(20MHz) with Ant1	



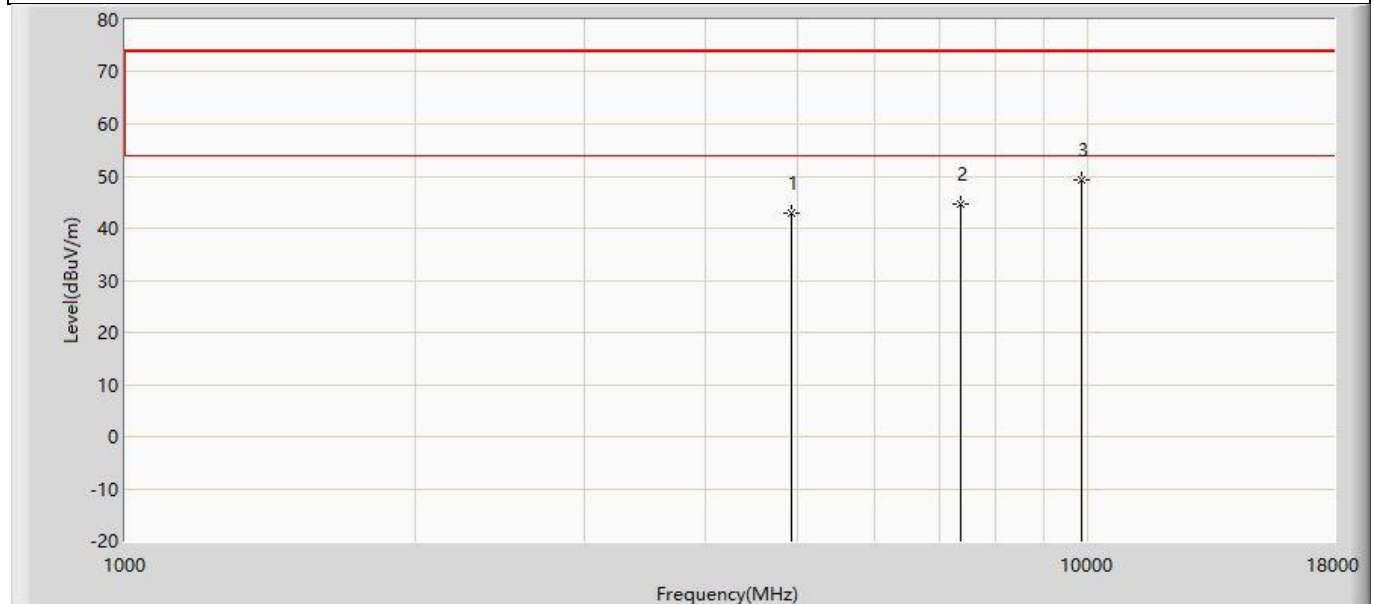
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	42.096	52.570	-31.904	74.000	-10.474	PK
2		7311.000	45.241	52.376	-28.759	74.000	-7.135	PK
3	*	9748.000	48.771	51.665	-25.229	74.000	-2.893	PK

Profile: 2390782R	Page No.: 52
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:17
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 3 : Transmit at 2437MHz by 802.11n(20MHz) with Ant1	



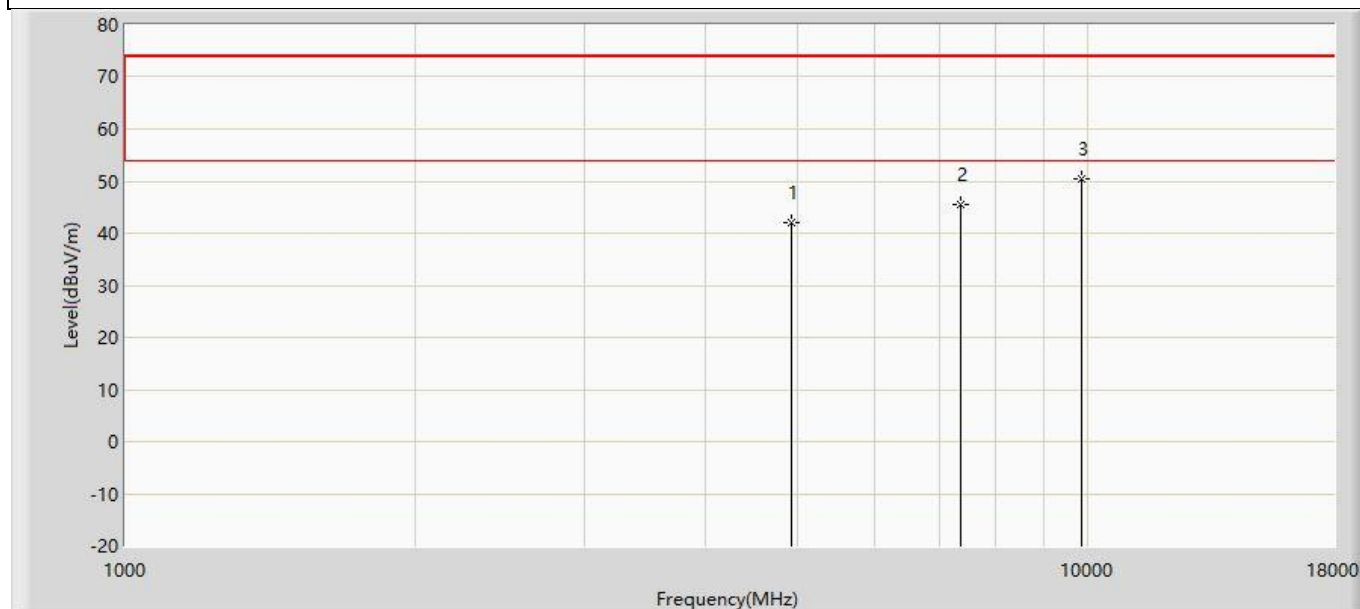
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	43.899	54.373	-30.101	74.000	-10.474	PK
2		7311.000	45.700	52.835	-28.300	74.000	-7.135	PK
3	*	9748.000	49.065	51.959	-24.935	74.000	-2.893	PK

Profile: 2390782R	Page No.: 53
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:17
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 3 : Transmit at 2462MHz by 802.11n(20MHz) with Ant1	



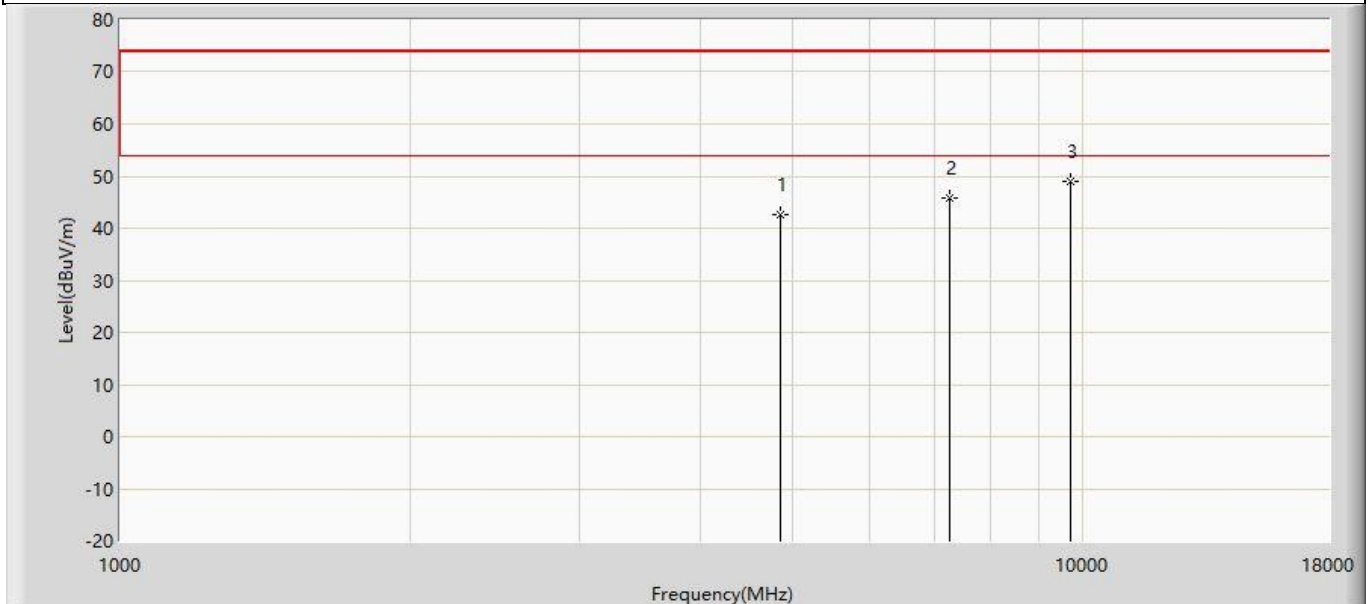
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	42.929	54.540	-31.071	74.000	-11.611	PK
2		7386.000	44.617	51.232	-29.383	74.000	-6.615	PK
3	*	9848.000	49.304	51.770	-24.696	74.000	-2.466	PK

Profile: 2390782R	Page No.: 54
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:17
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 3 : Transmit at 2462MHz by 802.11n(20MHz) with Ant1	



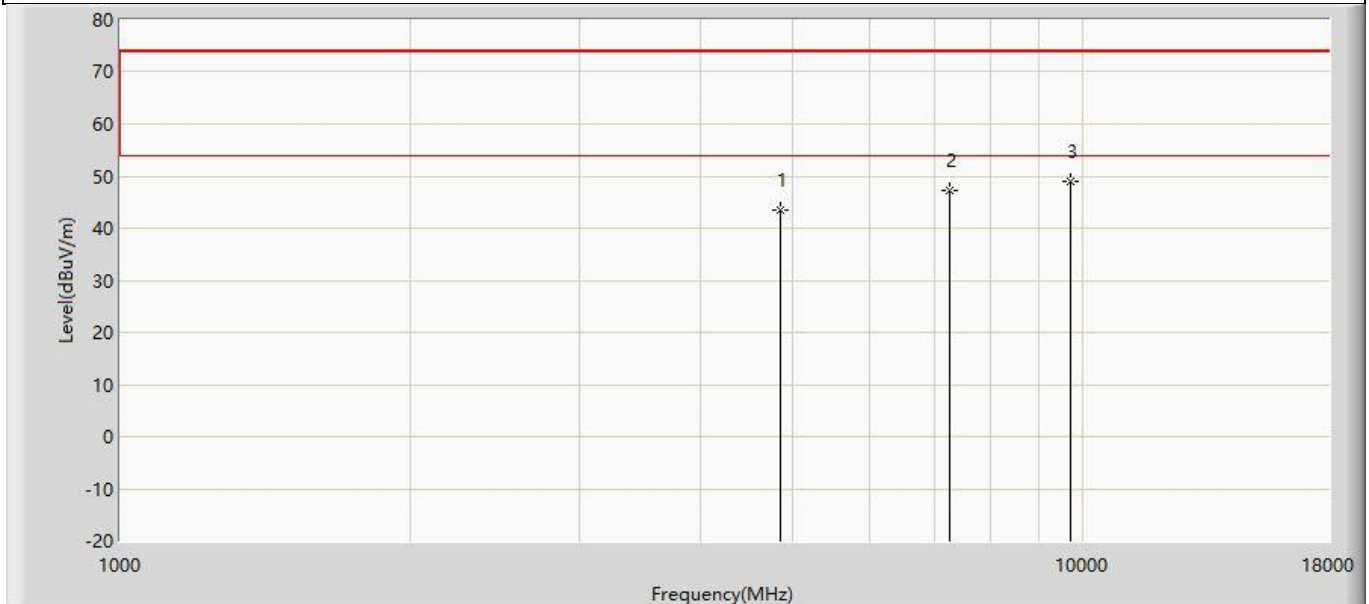
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	42.019	53.630	-31.981	74.000	-11.611	PK
2		7386.000	45.386	52.001	-28.614	74.000	-6.615	PK
3	*	9848.000	50.361	52.827	-23.639	74.000	-2.466	PK

Profile: 2390782R	Page No.: 55
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:17
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 4 : Transmit at 2422MHz by 802.11n(40MHz) with Ant1	



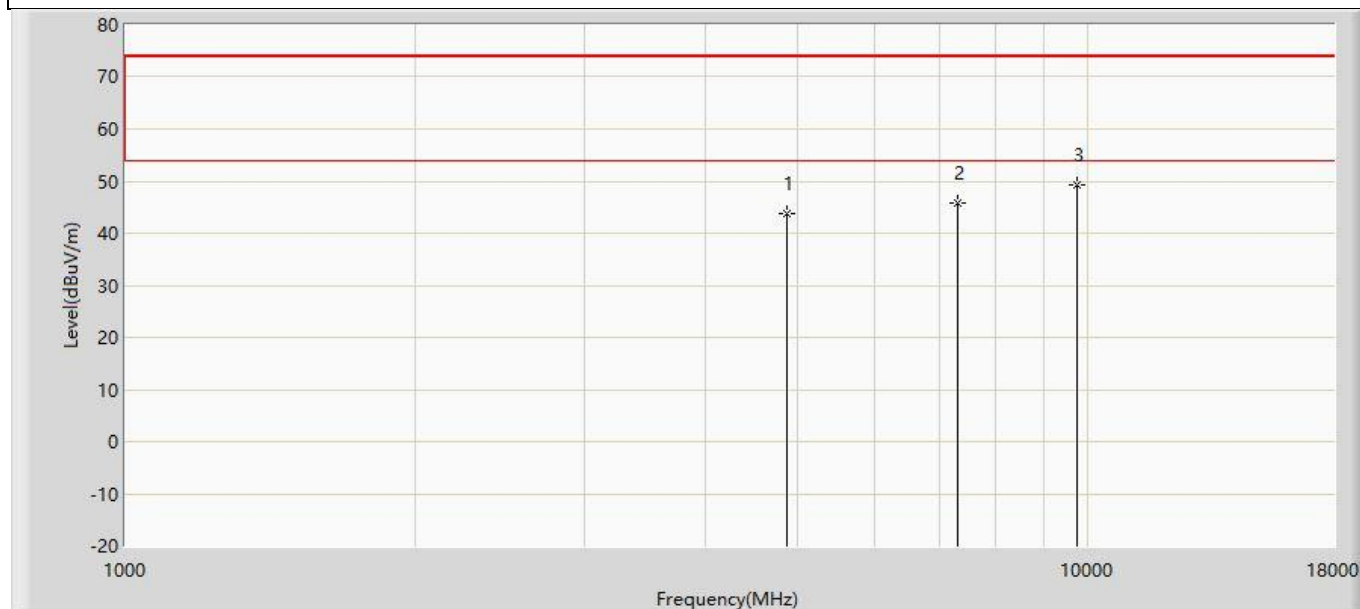
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4844.000	42.675	53.943	-31.325	74.000	-11.268	PK
2		7266.000	45.804	52.508	-28.196	74.000	-6.705	PK
3	*	9688.000	49.062	52.254	-24.938	74.000	-3.191	PK

Profile: 2390782R	Page No.: 56
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:17
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 4 : Transmit at 2422MHz by 802.11n(40MHz) with Ant1	



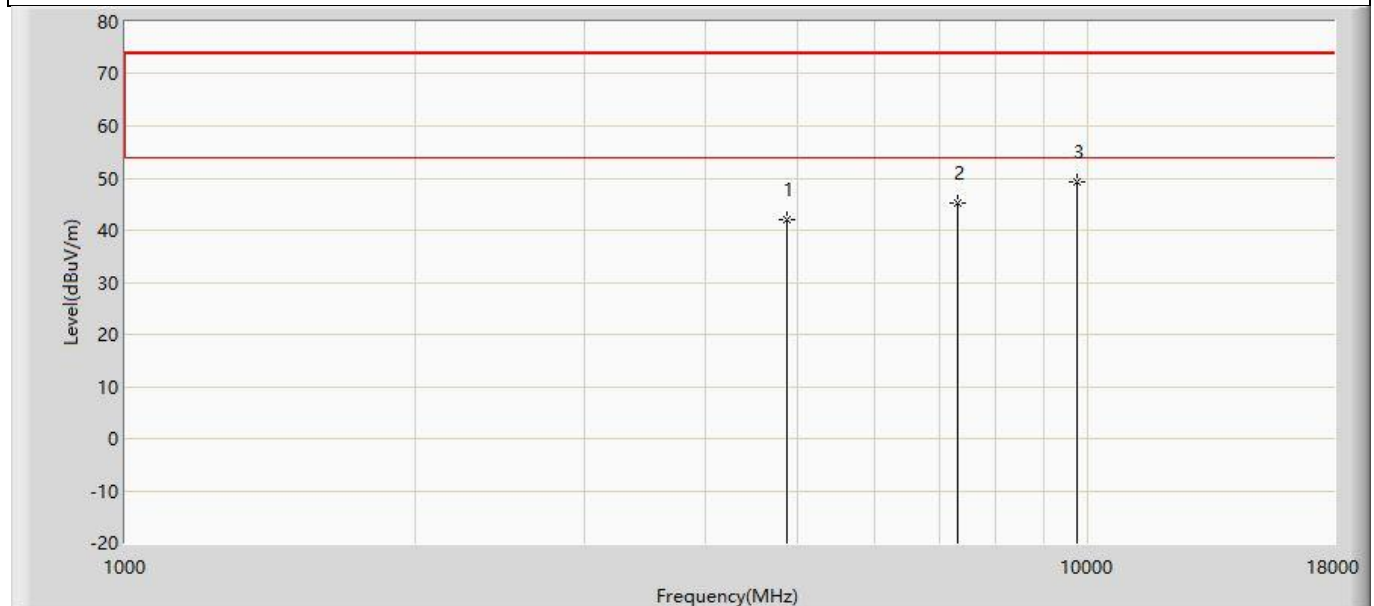
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4844.000	43.594	54.862	-30.406	74.000	-11.268	PK
2		7266.000	47.217	53.921	-26.783	74.000	-6.705	PK
3	*	9688.000	49.087	52.279	-24.913	74.000	-3.191	PK

Profile: 2390782R	Page No.: 57
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:17
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 4 : Transmit at 2437MHz by 802.11n(40MHz) with Ant1	



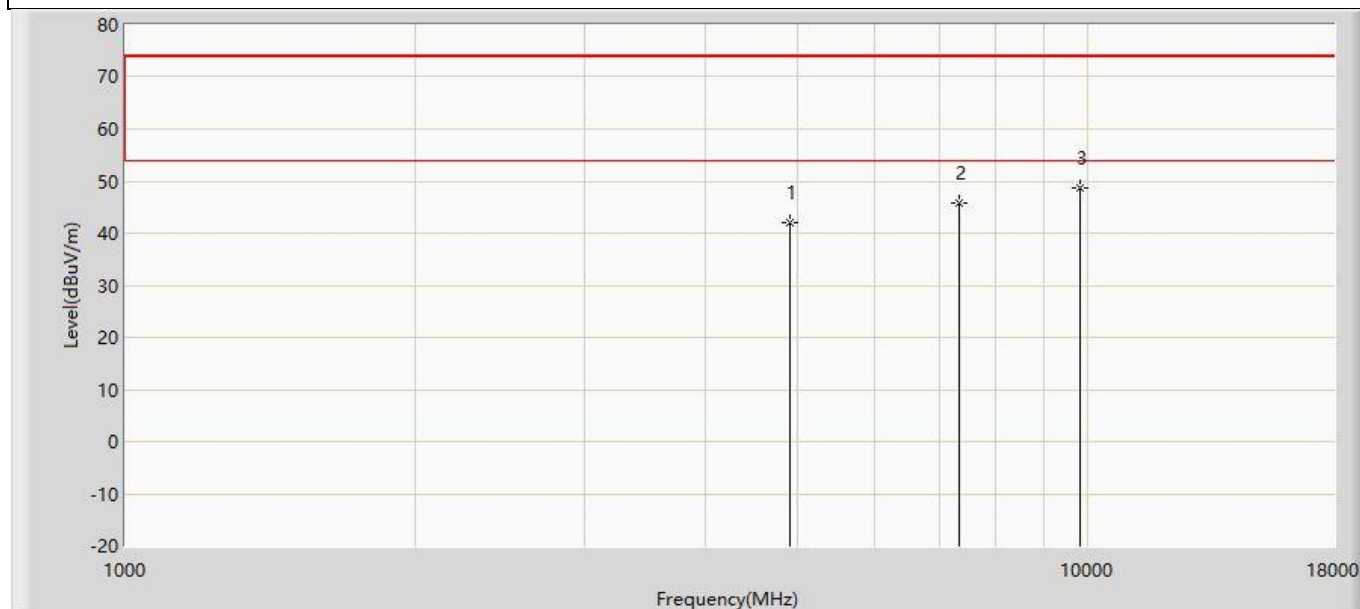
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	43.697	54.171	-30.303	74.000	-10.474	PK
2		7311.000	45.802	52.937	-28.198	74.000	-7.135	PK
3	*	9748.000	49.196	52.090	-24.804	74.000	-2.893	PK

Profile: 2390782R	Page No.: 58
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:17
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 4 : Transmit at 2437MHz by 802.11n(40MHz) with Ant1	



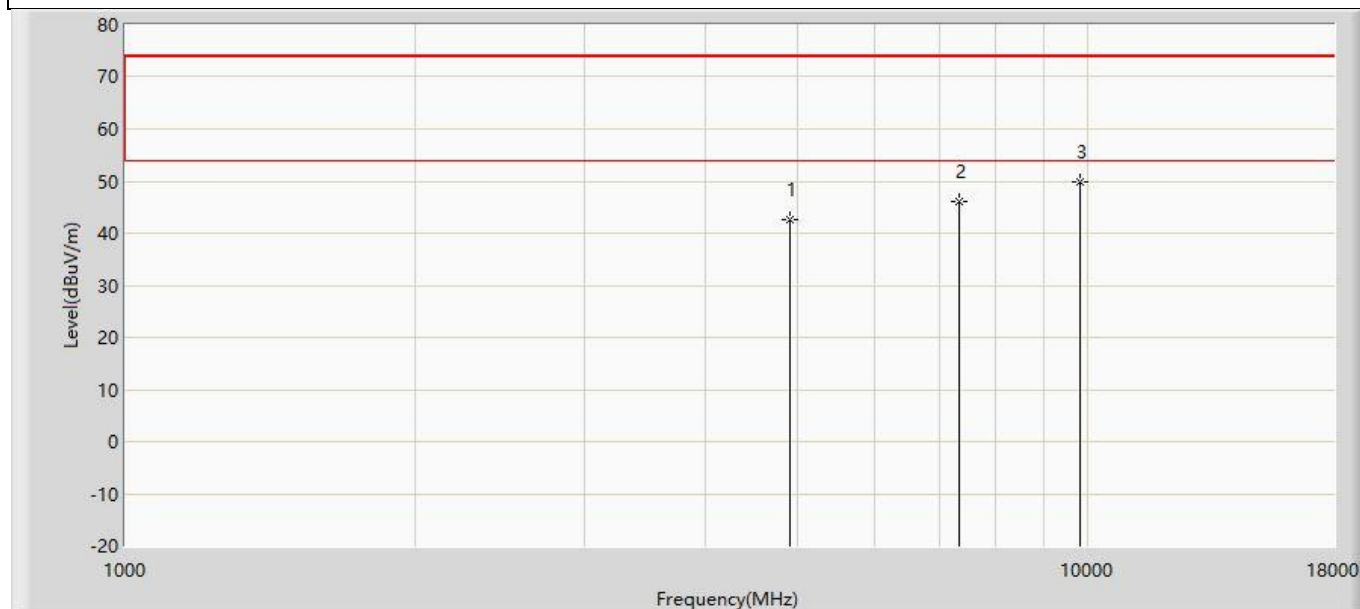
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	41.976	52.450	-32.024	74.000	-10.474	PK
2		7311.000	45.230	52.365	-28.770	74.000	-7.135	PK
3	*	9748.000	49.345	52.239	-24.655	74.000	-2.893	PK

Profile: 2390782R	Page No.: 59
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:17
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 4 : Transmit at 2452MHz by 802.11n(40MHz) with Ant1	



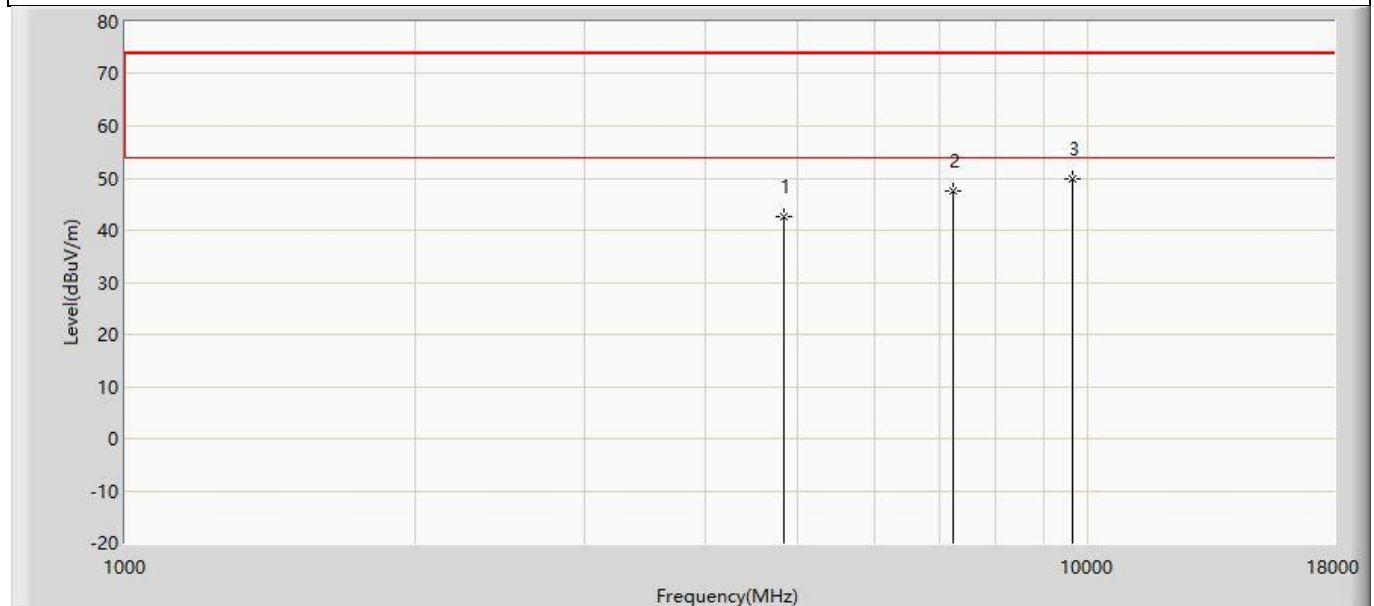
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4904.000	42.044	53.618	-31.956	74.000	-11.573	PK
2		7356.000	45.792	52.330	-28.208	74.000	-6.539	PK
3	*	9808.000	48.690	52.059	-25.310	74.000	-3.369	PK

Profile: 2390782R	Page No.: 60
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:17
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 4 : Transmit at 2452MHz by 802.11n(40MHz) with Ant1	



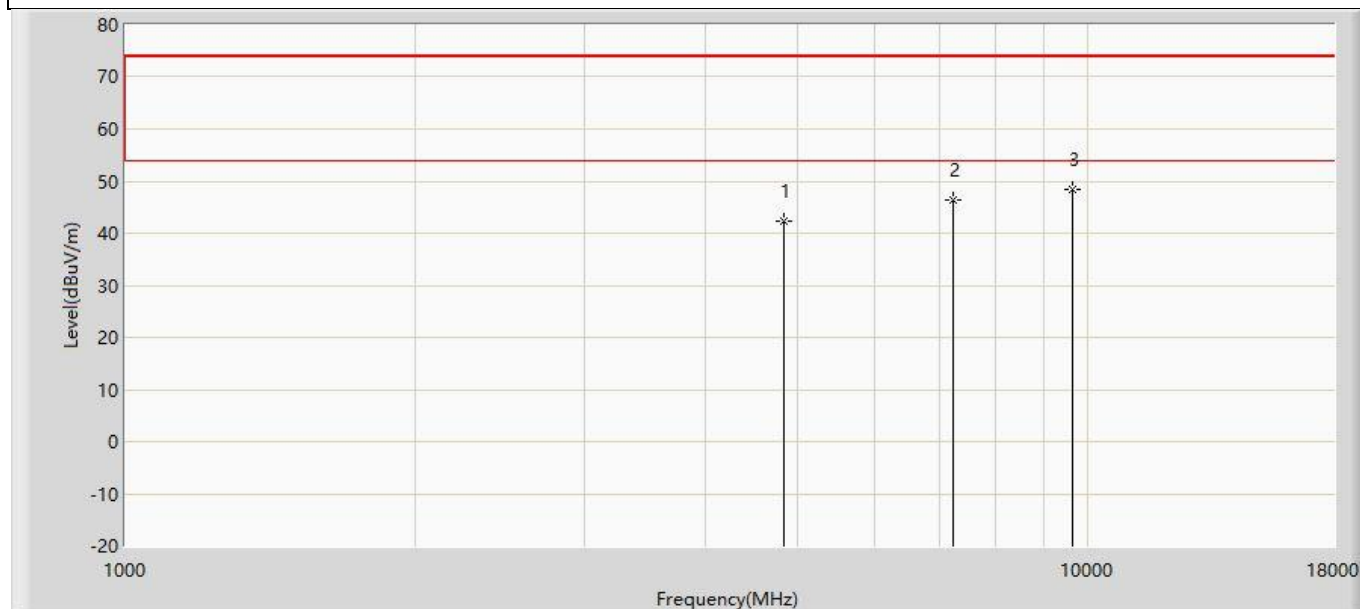
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4904.000	42.499	54.073	-31.501	74.000	-11.573	PK
2		7356.000	45.991	52.529	-28.009	74.000	-6.539	PK
3	*	9808.000	49.738	53.107	-24.262	74.000	-3.369	PK

Profile: 2390782R	Page No.: 61
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:17
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 5 : Transmit at 2412MHz by 802.11ax(20MHz) with Ant1	



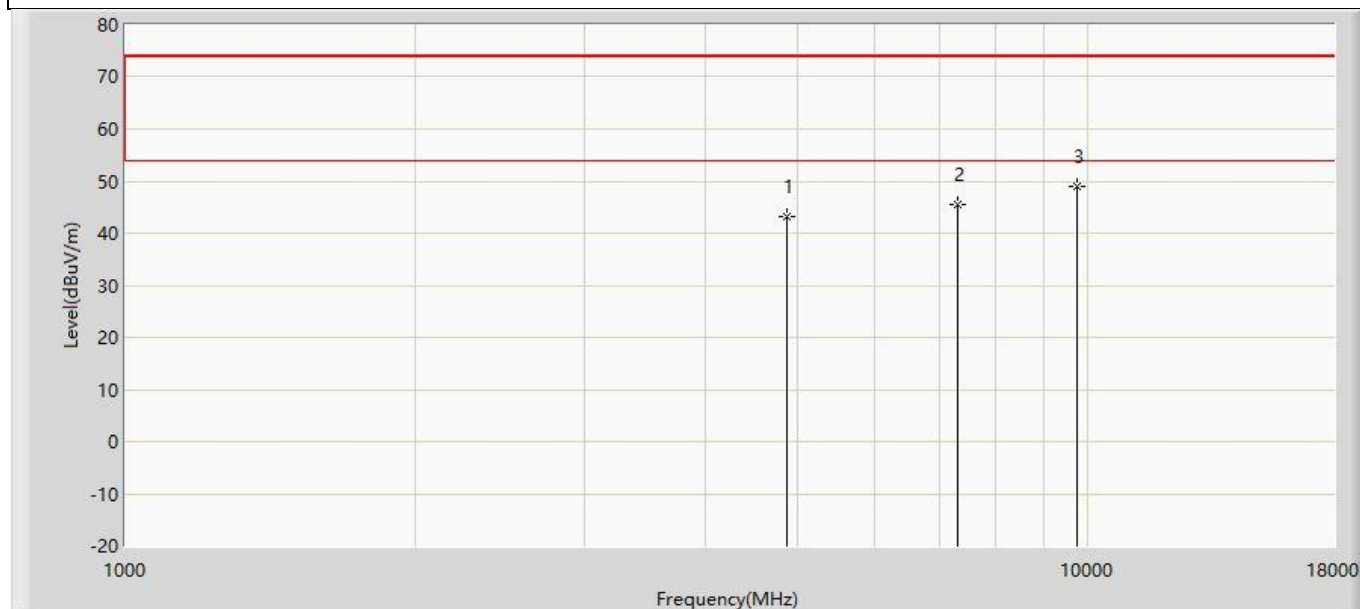
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	42.627	54.547	-31.373	74.000	-11.920	PK
2		7236.000	47.670	54.304	-26.330	74.000	-6.634	PK
3	*	9648.000	49.818	53.592	-24.182	74.000	-3.774	PK

Profile: 2390782R	Page No.: 62
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:17
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 5 : Transmit at 2412MHz by 802.11ax(20MHz) with Ant1	



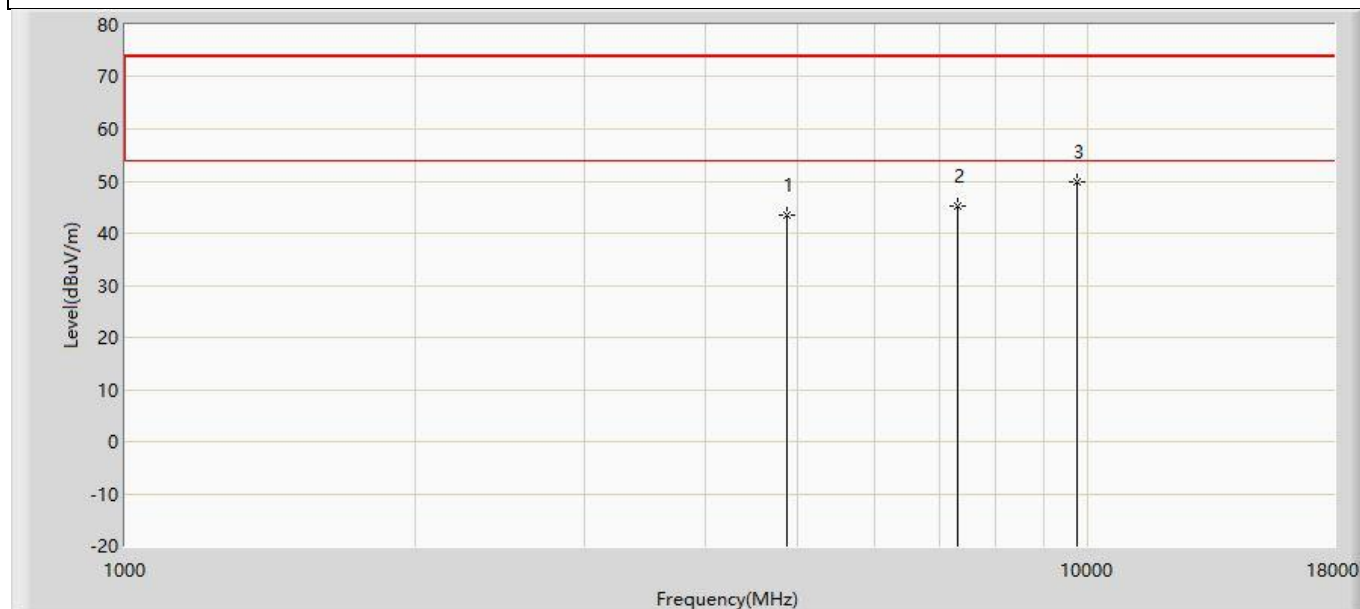
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	42.343	54.263	-31.657	74.000	-11.920	PK
2		7236.000	46.411	53.045	-27.589	74.000	-6.634	PK
3	*	9648.000	48.281	52.055	-25.719	74.000	-3.774	PK

Profile: 2390782R	Page No.: 63
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:18
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 5 : Transmit at 2437MHz by 802.11ax(20MHz) with Ant1	



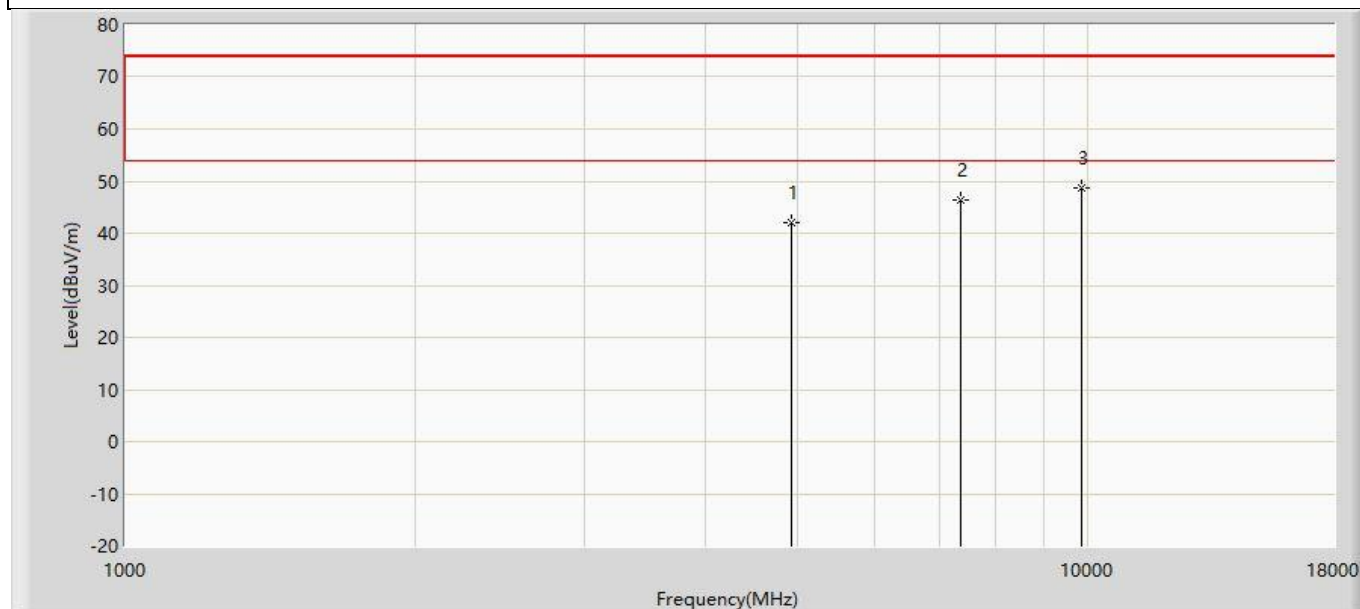
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	43.205	53.679	-30.795	74.000	-10.474	PK
2		7311.000	45.561	52.696	-28.439	74.000	-7.135	PK
3	*	9748.000	49.069	51.963	-24.931	74.000	-2.893	PK

Profile: 2390782R	Page No.: 64
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:18
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 5 : Transmit at 2437MHz by 802.11ax(20MHz) with Ant1	



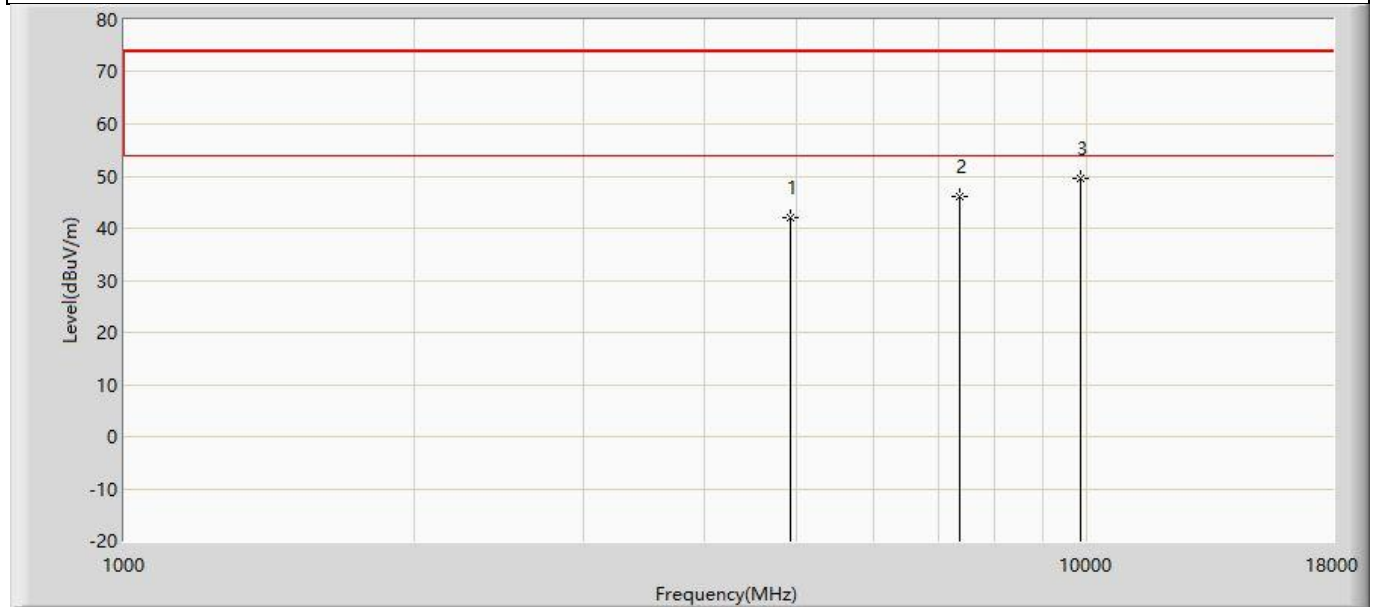
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	43.527	54.001	-30.473	74.000	-10.474	PK
2		7311.000	45.209	52.344	-28.791	74.000	-7.135	PK
3	*	9748.000	49.712	52.606	-24.288	74.000	-2.893	PK

Profile: 2390782R	Page No.: 65
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:18
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 5 : Transmit at 2462MHz by 802.11ax(20MHz) with Ant1	



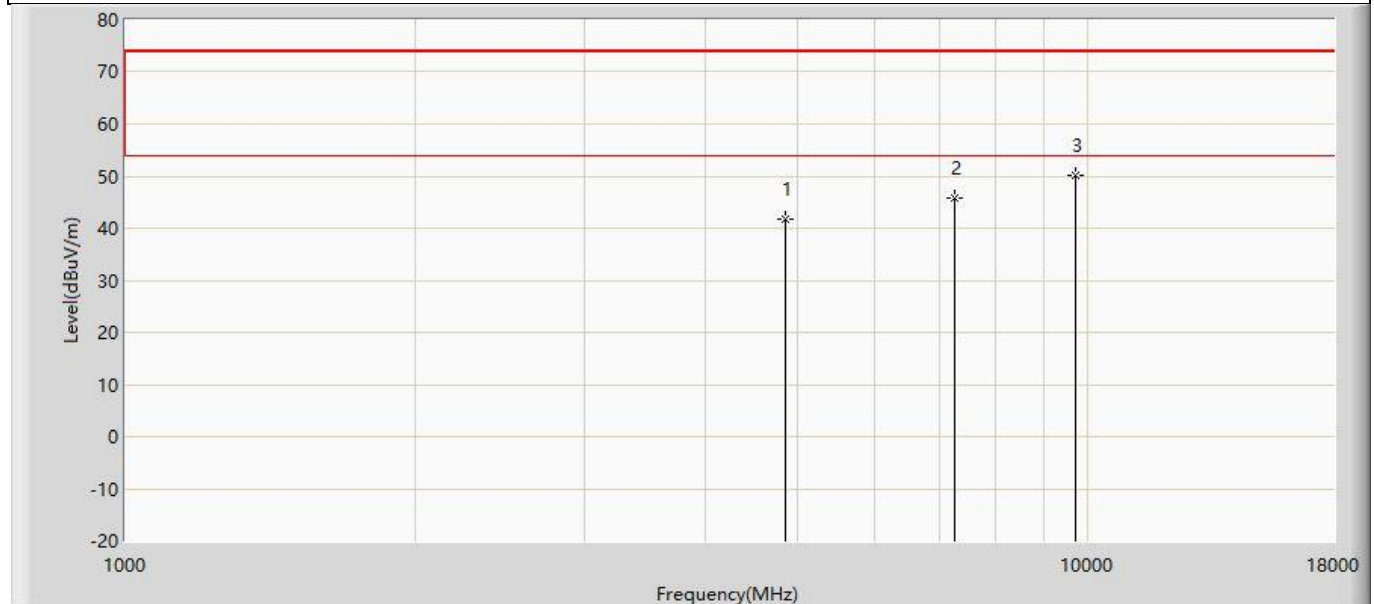
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	42.171	53.782	-31.829	74.000	-11.611	PK
2		7386.000	46.501	53.116	-27.499	74.000	-6.615	PK
3	*	9848.000	48.652	51.118	-25.348	74.000	-2.466	PK

Profile: 2390782R	Page No.: 66
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:18
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 5 : Transmit at 2462MHz by 802.11ax(20MHz) with Ant1	



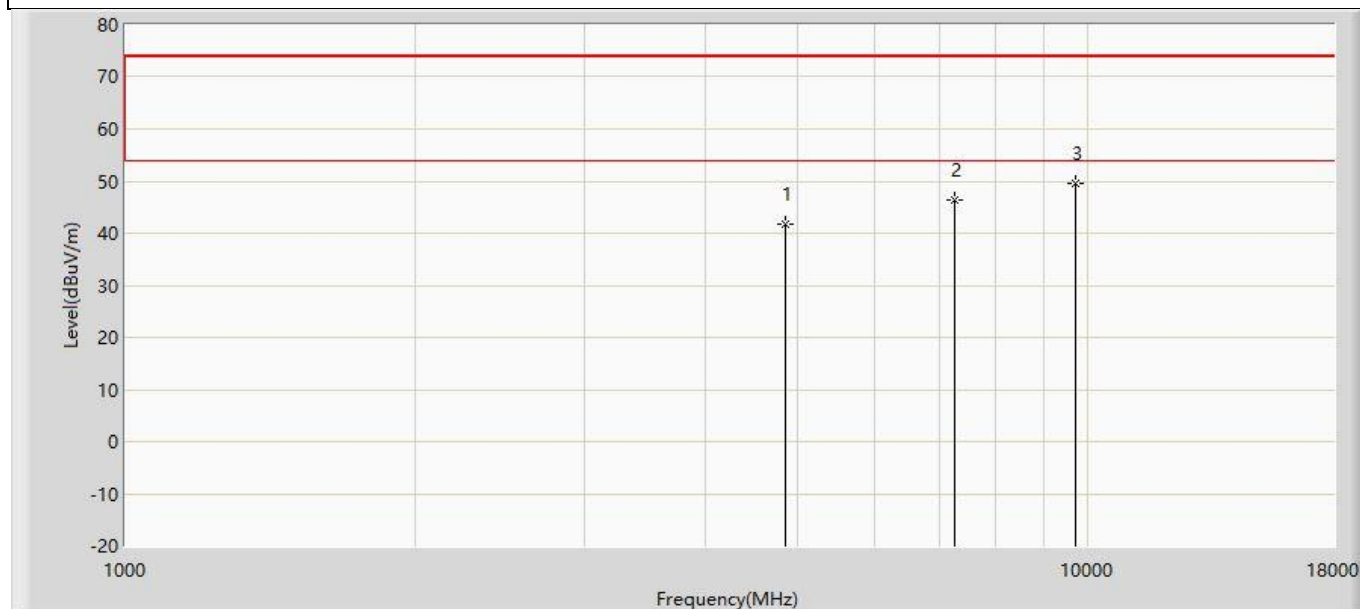
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	41.947	53.558	-32.053	74.000	-11.611	PK
2		7386.000	46.114	52.729	-27.886	74.000	-6.615	PK
3	*	9848.000	49.468	51.934	-24.532	74.000	-2.466	PK

Profile: 2390782R	Page No.: 67
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:18
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 6 : Transmit at 2422MHz by 802.11ax(40MHz) with Ant1	



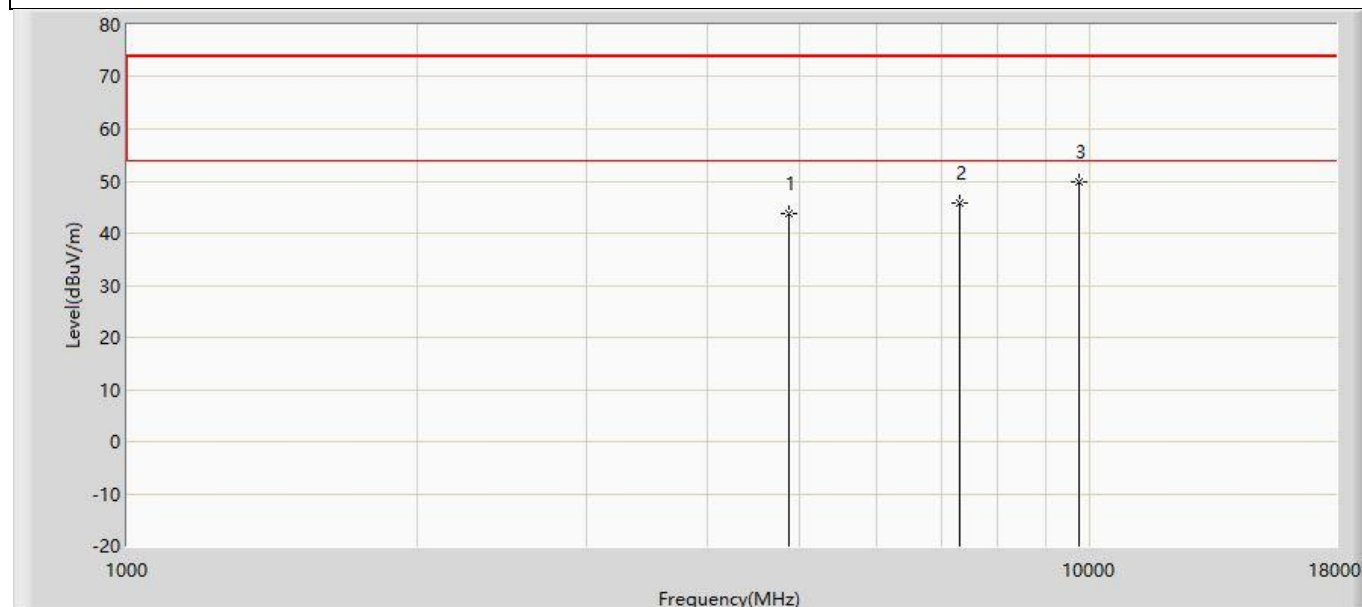
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4844.000	41.849	53.117	-32.151	74.000	-11.268	PK
2		7266.000	45.919	52.623	-28.081	74.000	-6.705	PK
3	*	9688.000	50.136	53.328	-23.864	74.000	-3.191	PK

Profile: 2390782R	Page No.: 68
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:18
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 6 : Transmit at 2422MHz by 802.11ax(40MHz) with Ant1	



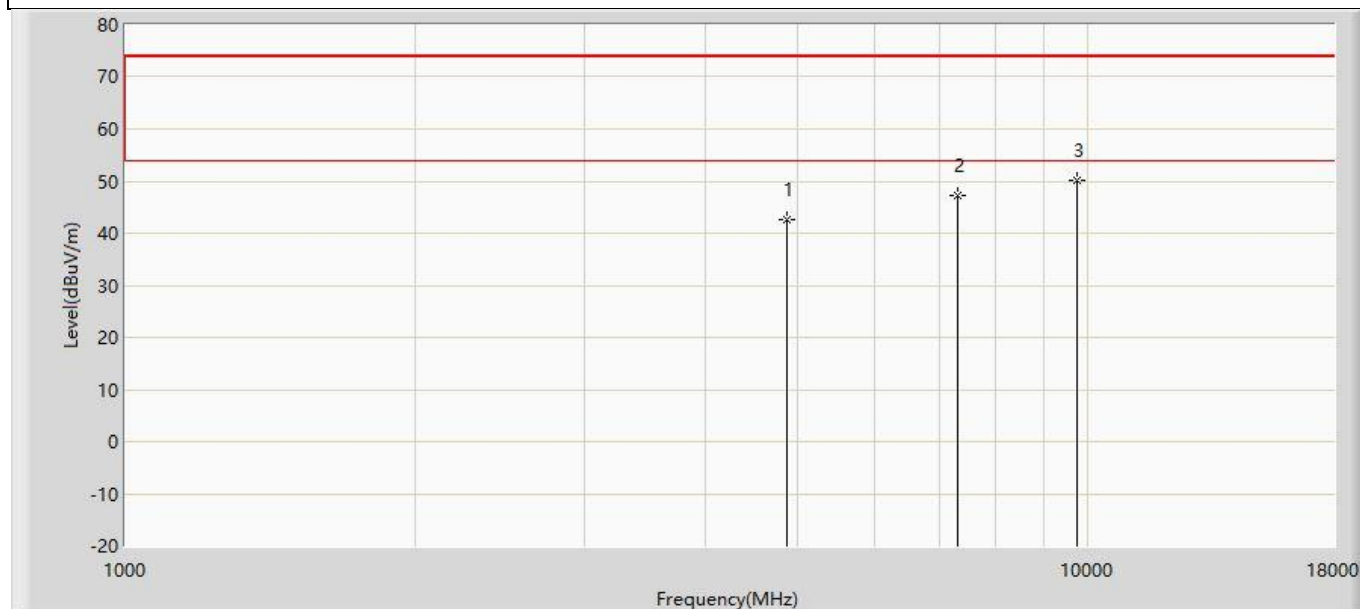
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4844.000	41.771	53.039	-32.229	74.000	-11.268	PK
2		7266.000	46.310	53.014	-27.690	74.000	-6.705	PK
3	*	9688.000	49.472	52.664	-24.528	74.000	-3.191	PK

Profile: 2390782R	Page No.: 69
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:18
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 6 : Transmit at 2437MHz by 802.11ax(40MHz) with Ant1	



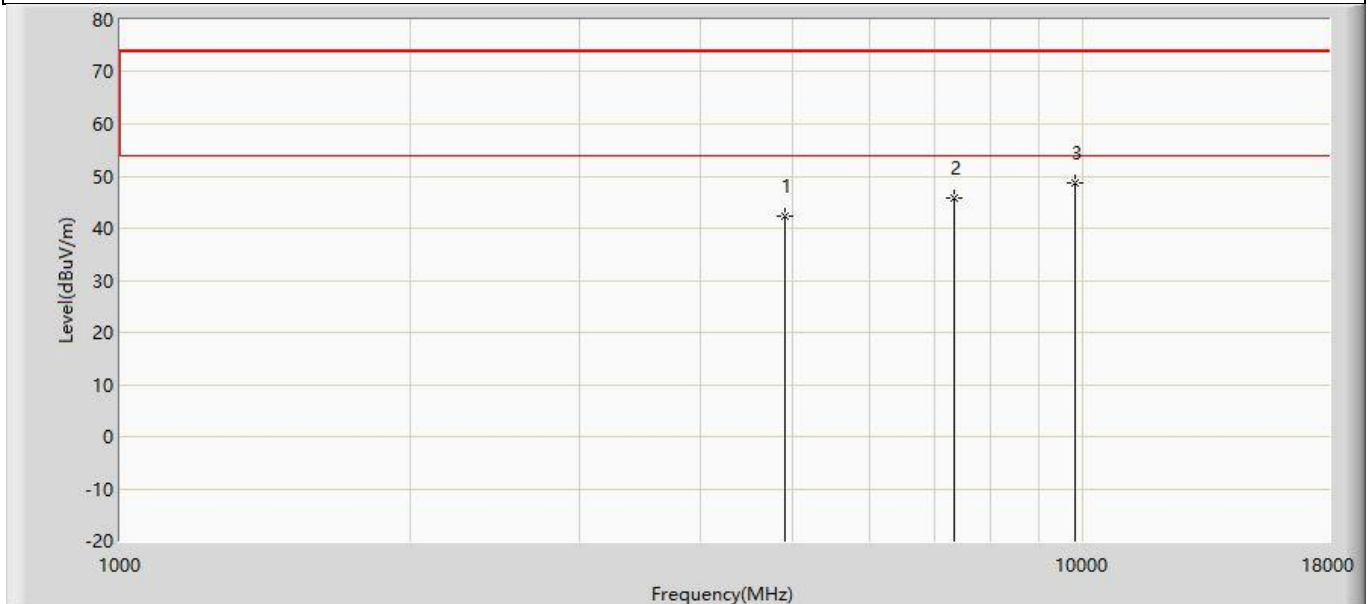
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	43.674	54.148	-30.326	74.000	-10.474	PK
2		7311.000	45.894	53.029	-28.106	74.000	-7.135	PK
3	*	9748.000	49.989	52.883	-24.011	74.000	-2.893	PK

Profile: 2390782R	Page No.: 70
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:18
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 6 : Transmit at 2437MHz by 802.11ax(40MHz) with Ant1	



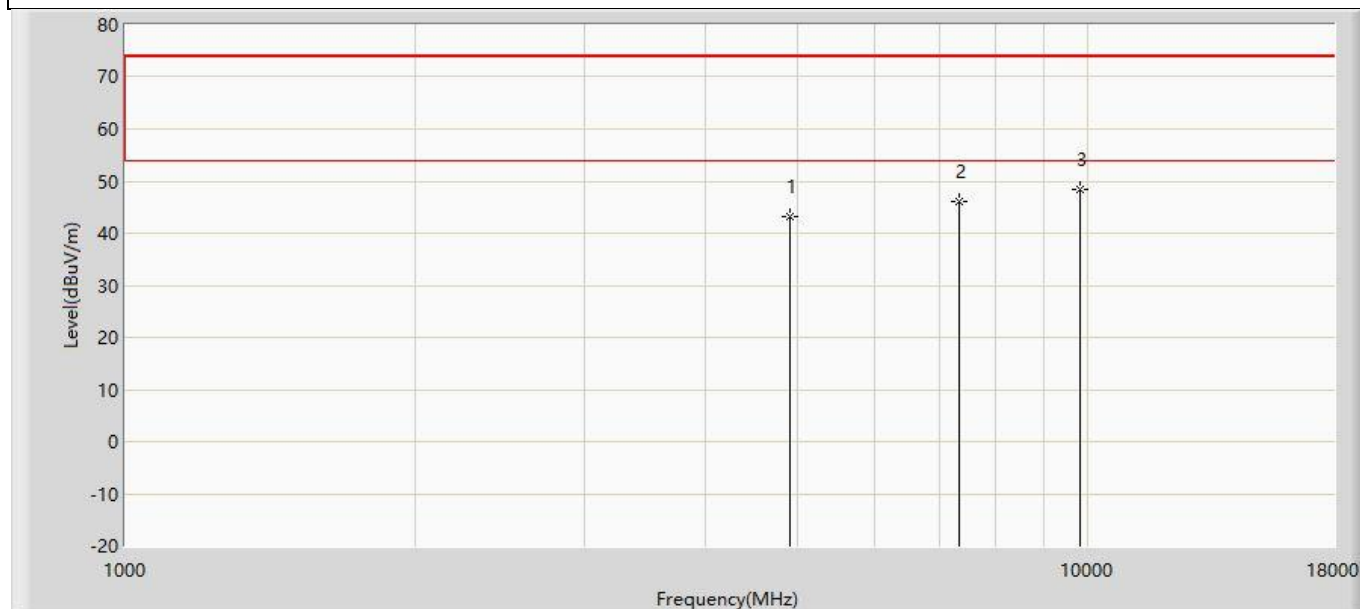
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	42.598	53.072	-31.402	74.000	-10.474	PK
2		7311.000	47.115	54.250	-26.885	74.000	-7.135	PK
3	*	9748.000	50.112	53.006	-23.888	74.000	-2.893	PK

Profile: 2390782R	Page No.: 71
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:19
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 6 : Transmit at 2452MHz by 802.11ax(40MHz) with Ant1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4904.000	42.342	53.916	-31.658	74.000	-11.573	PK
2		7356.000	45.869	52.407	-28.131	74.000	-6.539	PK
3	*	9808.000	48.779	52.148	-25.221	74.000	-3.369	PK

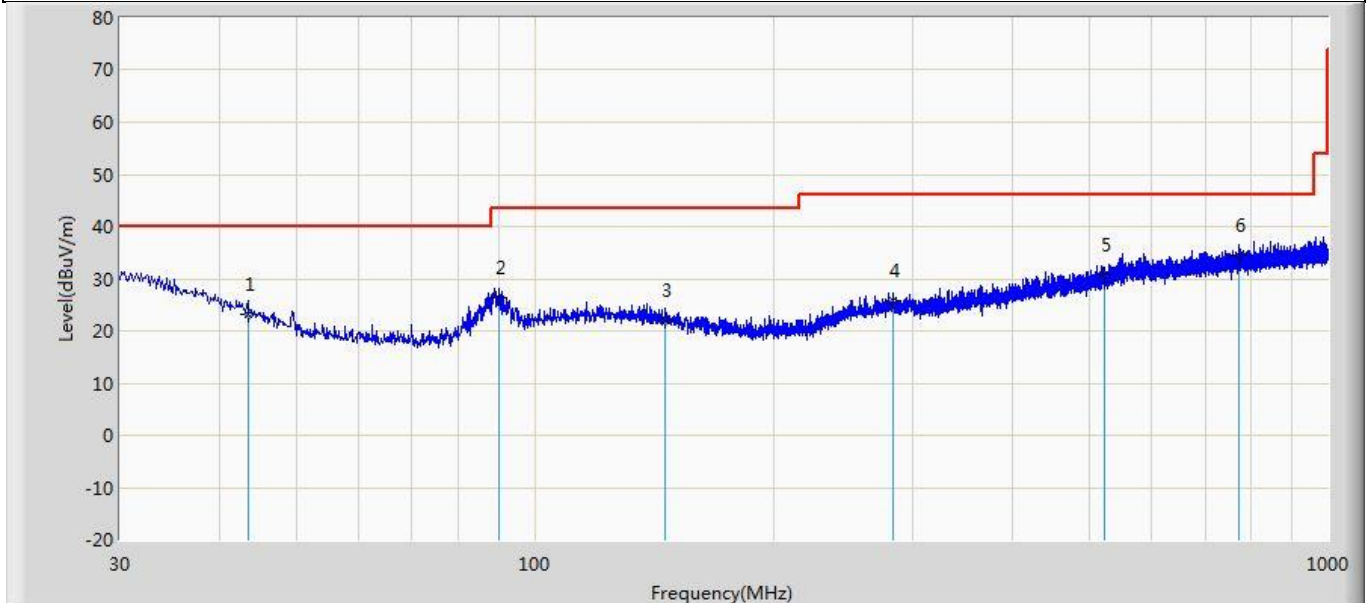
Profile: 2390782R	Page No.: 72
Engineer: Pengcheng Yang	
Site: AC5	Time: 2024/06/30 - 19:19
Limit: FCC_Part15.209_RE	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 6 : Transmit at 2452MHz by 802.11ax(40MHz) with Ant1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4904.000	43.206	54.780	-30.794	74.000	-11.573	PK
2		7356.000	46.133	52.671	-27.867	74.000	-6.539	PK
3	*	9808.000	48.313	51.682	-25.687	74.000	-3.369	PK

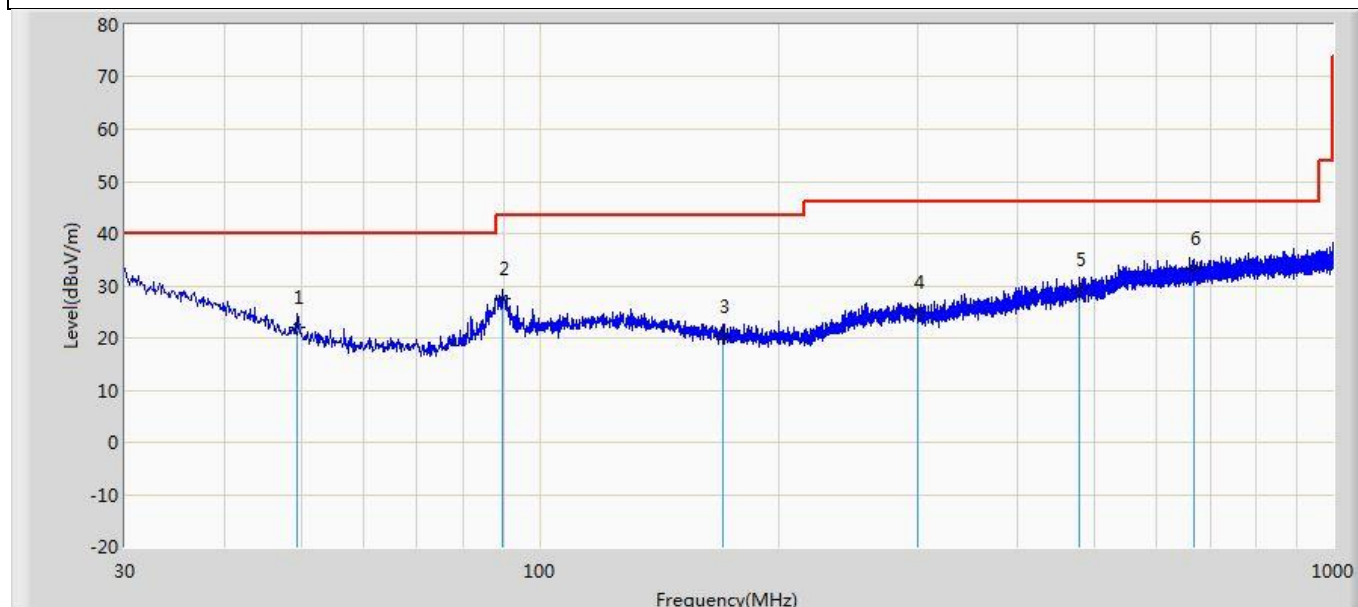
The worst case of Radiated Emission below 1GHz:

Profile: 2390782R	Page No.: 27
Engineer: Yuliu	
Site: AC2	Time: 2024/06/29 - 23:24
Limit: FCC_Part 15.209_RE	Margin: 0
Probe: CBL6112B_2933(30-1000MHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 1 : Transmit at 2412MHz by 802.11b	



N o	Mar k	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		43.459	23.275	4.551	-16.725	40.000	18.724	QP
2		90.019	26.420	10.468	-17.080	43.500	15.952	QP
3		146.279	22.133	4.427	-21.367	43.500	17.706	QP
4		282.564	25.860	5.377	-20.140	46.000	20.483	QP
5		521.635	30.863	4.905	-15.137	46.000	25.959	QP
6	*	772.535	34.360	5.583	-11.640	46.000	28.777	QP

Profile: 2390782R	Page No.: 28
Engineer: Yuliu	
Site: AC2	Time: 2024/06/29 - 23:24
Limit: FCC_Part 15.209_RE	Margin: 0
Probe: CBL6112B_2933(30-1000MHz)	Polarity: Vertical
EUT: Mobile Computer	Power: Battery Powered
Note: Mode 1 : Transmit at 2412MHz by 802.11b	



N o	Mar k	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		49.521	22.146	6.722	-17.854	40.000	15.424	QP
2		89.776	27.632	11.726	-15.868	43.500	15.906	QP
3		170.044	20.257	3.465	-23.243	43.500	16.793	QP
4		299.296	24.864	4.064	-21.136	46.000	20.800	QP
5		478.746	29.275	4.101	-16.725	46.000	25.174	QP
6	*	666.926	33.311	5.579	-12.689	46.000	27.732	QP

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp)
3. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
4. The test frequency range, 9kHz~30MHz, worst case are at least 20dB below the limits, therefore no data appear in the report.
5. The test frequency range, 18GHz~26GHz test result on peak is lower than average limit, all is the noise base, therefore no data appear in the report.
6. If the test result on peak is lower than average limit, then average measurement needn't be performed.
7. We have evaluated SISO, MIMO mode, shown in the report is the worst data.

The End