DEKRA Testing and Certification (Suzhou) Co., Ltd.
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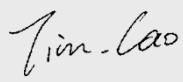
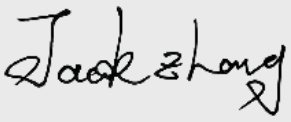
Test report No:
2250805R-RF-US-P06V02

FCC & ISED TEST REPORT

Product Name	VR All-In-One Headset
Trademark	PICO
Model and /or type reference	A8110
FCC ID	2A5NV-A8110
IC	28409-A8110
Applicant´s name / address	Qingdao Chuangjian Weilai Technology Co., Ltd Room 401, 4th Floor, Building 3, Qingdao Research Institute, 393 Songling Road, Laoshan District, Qingdao City, Shandong Province, P.R.China
Test method requested, standard	FCC CFR Title 47 Part 15 Subpart C Section 15.247 ANSI C63.10: 2013 KDB558074 D01 15.247 Meas Guidance v05r02 RSS-Gen Issue 5 RSS-247 Issue 2
Verdict Summary	IN COMPLIANCE
Tested by (name / position & signature)	Tim Cao/Project Engineer 
Approved by (name / position & signature)	Jack Zhang/ Manager 
Date of issue	2022-07-19
Report Version	V1.1
Report template No	Template_FCC 15.247-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.

GENERAL CONDITIONS

Test Location	No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China
Date(receive sample)	May. 27, 2022
Date (start test)	May. 30, 2022
Date (finish test)	Jul. 10, 2022

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.

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
2250805R-RF-US-P06V02	V1.0	Initial issue of report.	2022-07-13
2250805R-RF-US-P06V02	V1.1	Page1&10 modified the Applicant&Manufacturer address, and Page95 added the power setting. V1.0 report repeal.	2022-07-19

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 Part 15 Subpart C Paragraph 15.247, RSS-Gen Issue 5, RSS-247 Issue 2.
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 Information;
   - Chapter 1.3 Channel List.
8. There are two versions for EUT model A8110, one is 'Pico 4 Pro' another is 'Pico 4', both are identical except additional eye tracking & face tracking function for 'Pico 4 Pro'. 'Pico 4 Pro' and 'Pico 4 'There are models with 2nd material supplier; we did all the tests on 'Pico 4 Pro', since 'Pico 4 Pro' and 'Pico 4' have the same 2nd supplier material it won't affect RF circuit and PCB Layout, So we only evaluated the worst channel spurious emissions for the second material supplier model of "Pico 4 Pro", The second material supplier of "Pico 4" has no evaluation test, We also evaluate the worst channel spurious emissions for "Pico 4", Verify that spurious emissions are not degraded, so only test data for 'Pico 4 Pro' is shown in the report.

USED EQUIPMENT

AC Power Line Conducted Emission / TR1

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
EMI Test Receiver	R&S	ESCI	100726	2021.10.30	2022.10.29
Two-Line V-Network	R&S	ENV216	101044	2022.03.12	2023.03.11
50ohm Termination	SHX	TF2	7081403	2021.09.04	2022.09.03
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	TR1-TH	2021.07.09	2022.07.08
Dekra test software	Dekra	-	-	-	-

Emissions in non-restricted frequency bands/ Occupied Bandwidth/ Fundamental emission output power/ Power Spectral Density/Band Edge/ TR8

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2021.07.11	2022.07.10
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2021.08.12	2022.08.11
MXA Signal Anlyzer	Keysight	N9020A	MY56060147	2021.07.11	2022.07.10
4TX MIMO Power Sensor	Keysight	X8750A	MY59400102	2022.03.16	2023.03.15
Coaxial Cable	Woken	N/A	N/A	2022.01.18	2023.01.17
Temperature/Humidity Meter	RTS	RTS-8S	RF08	2021.07.09	2022.07.08

Radiated Emission(30MHz-1GHz) / AC3

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
EMI Test Receiver	R&S	ESCI	100176	2021.08.15	2022.08.14
Loop Antenna	R&S	HFH2-Z2	833799/003	2022.04.15	2023.04.14
Bilog Antenna	Teseq GmbH	CBL6112D	27613	2021.08.23	2022.08.22
Coaxial Cable	Huber+Suhner	RG 214	AC3-C	2022.03.30	2023.03.29
Temperature/Humidity Meter	RTS	RTS-8S	AC3-TH	2021.07.09	2022.07.08
Dekra test software	Dekra	-	-	-	-

Radiated Emission(1GHz-40GHz) / AC5

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2021.08.12	2022.08.11
Amplifier	SKET	LNPA_0118G-45	SK2021041201	2022.04.15	2023.04.14
Preamplifier	EMCI	EMC184045SE	980263	2022.05.21	2023.05.20
DRG Horn Antenna	ETS-Lindgren	3117	00167055	2021.08.23	2022.08.22
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2022.05.19	2023.05.18
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2022.05.22	2023.05.21
Coaxial Cable	ROSENBERGER	LA1-C011-2000/3000	AC5-40G	2022.03.21	2023.03.20
High-Pass Filter	Wainwright	WHKX3.0/18G-12SS	AC5&AC6	2022.06.07	2023.06.06
Temperature/Humidity Meter	RTS	RTS-8S	AC5-TH	2021.07.09	2022.07.08
Dekra test software	Dekra	-	-	-	-

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%. The Uncertainties is complice with standard required as below.

Test item	Uncertainty
AC Power Line Conducted Emission	9kHz~150kHz: 2.80dB 150kHz~30MHz: 2.40dB
Peak Power Output	± 1.27 dB
Radiated Emission(30MHz~1GHz)	Horizontal: 30MHz~200MHz: 3.50 dB 300MHz~1GHz: 3.60 dB Vertical: 30MHz~200MHz: 3.60 dB 300MHz~1GHz: 3.50 dB
Radiated Emission(1GHz~26.5GHz)	Horizontal: 1GHz~18GHz: 5.00 dB Vertical: 1GHz~18GHz: 4.80 dB
RF antenna conducted test	± 1.27dB
Radiated Emission Band Edge	± 3.9 dB
DTS Bandwidth	±150Hz
Occupied Bandwidth	±1kHz
Power Density	±1.27dB

1 GENERAL INFORMATION

1.1 General Description of the Item(s)

Product Name ..... :	VR All-In-One Headset
Model No. ..... :	A8110
Hardware Version ..... :	PHOENIX MB
Software Version ..... :	Android Q
Firmware Version ..... :	BTFM.HST.2.0.0.c3-00452-QCACHROMZ-1
FCC ID ..... :	2A5NV-A8110
IC ..... :	28409-A8110
Manufacturter ..... :	Qingdao Chuangjian Weilai Technology Co., Ltd
Manufacturer Address ..... :	Room 401, 4th Floor, Building 3, Qingdao Research Institute, 393 Songling Road, Laoshan District, Qingdao City, Shandong Province, P.R.China
Factory ..... :	Goertek Inc.
Address ..... :	No.8877 Yingqian Street,High-Tech Industrial DevelopmentDistrict,Weifang,Shandong,261031, P.R.China

Wireless specification..... :	Bluetooth 5.0					
Operating frequency range(s) ..... :	2400~2483.5MHz					
Type of Modulation..... :	GFSK					
PHYs ..... :	☒	LE 1M	☒	LE 2M	☒	LE Coded S=2/8
Data Rate ..... :	☒	1Mbit/s	☒	2Mbit/s	☒	500/125 Kbit/s
Number of channel..... :	40					

Rated power supply ..... :	Voltage and Frequency	
	☐	AC: 220 – 240 V, 50/60 Hz
	☒	Adapter: Input:100-240V,50/60Hz,0.5A Output:5.0V,3A /9.0V,2.23A /12V,1.67A/3.3-5.9V,3A/3.3-11V,2.2A
	☒	HMD: 9V,2.23A or 5V,3A
	☒	Battery:3.85V
Mounting position ..... :	☐	Table top equipment
	☐	Wall/Ceiling mounted equipment
	☐	Floor standing equipment
	☒	Head-mounted equipment
	☐	Other: Watch

1.2 Antenna Information

Antenna model / type number ..... :	N/A			
Antenna serial number ..... :	N/A			
Antenna Delivery ..... :	☒	1TX + 1RX		
	☐	2TX + 2RX		
	☐	Others:……		
Antenna technology ..... :	☒	SISO		
	☐	MIMO	☐	CDD
			☐	Beam-forming
Antenna Type ..... :	☐	External	☐	Dipole
			☐	Sectorized
	☒	Internal	☐	PIFA
			☒	FPC
			☐	Dipole
			☐	Others……..
Antenna Gain ..... :	2.65dBi			

1.3 Channel List

Bluetooth Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2402 MHz	01	2404 MHz	02	2406 MHz	03	2408 MHz
04	2410 MHz	05	2412 MHz	06	2414 MHz	07	2416 MHz
08	2418 MHz	09	2420 MHz	10	2422 MHz	11	2424 MHz
12	2426 MHz	13	2428 MHz	14	2430 MHz	15	2432 MHz
16	2434 MHz	17	2436 MHz	18	2438 MHz	19	2440 MHz
20	2442 MHz	21	2444 MHz	22	2446 MHz	23	2448 MHz
24	2450 MHz	25	2452 MHz	26	2454 MHz	27	2456 MHz
28	2458 MHz	29	2460 MHz	30	2462 MHz	31	2464 MHz
32	2466 MHz	33	2468 MHz	34	2470 MHz	35	2472 MHz
36	2474 MHz	37	2476 MHz	38	2478 MHz	39	2480 MHz

Note: The general description of the Item(s), antenna information 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 For Bluetooth	Mode1: Transmit by LE_1Mbps
	Mode2: Transmit by LE_2Mbps
	Mode3: Transmit by LE_Coded S=2
	Mode4: Transmit by LE_Coded S=8

2.2 Accessories Information

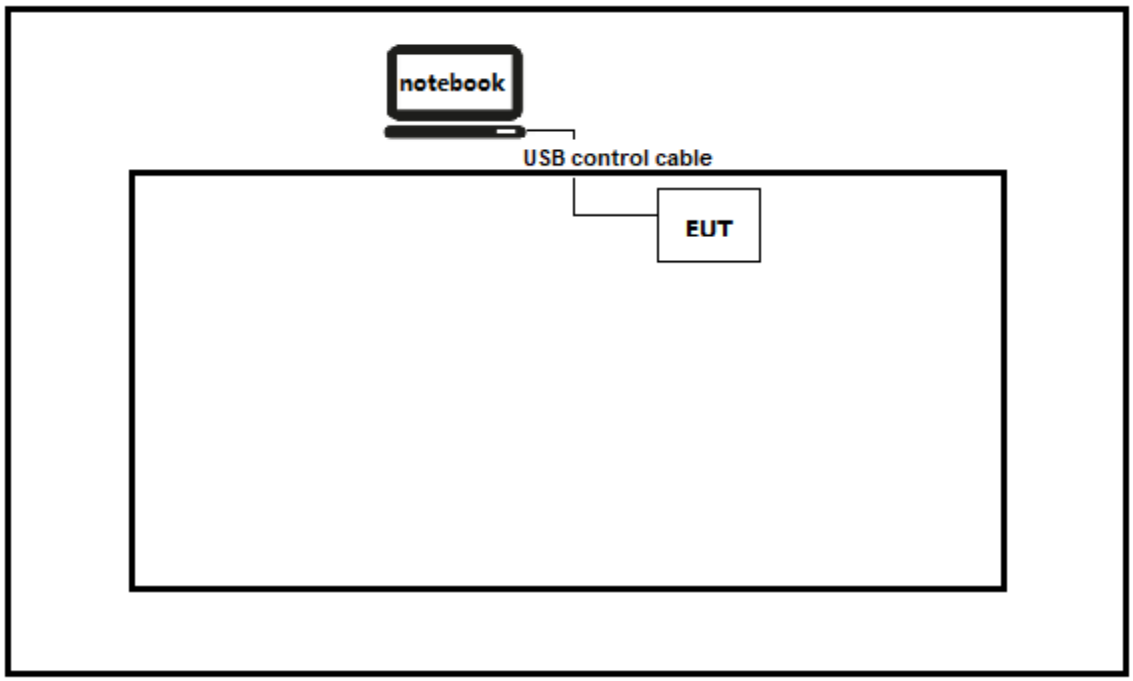
Accessories Information	Brand/model name	Cable		
		Length used during test [m]	Attached during test	Shielded
USB Cable	N/A	10	☒	☒
USB Cable	N/A	0.5	☒	☒

2.3 Auxiliary equipment / Test software for the EUT

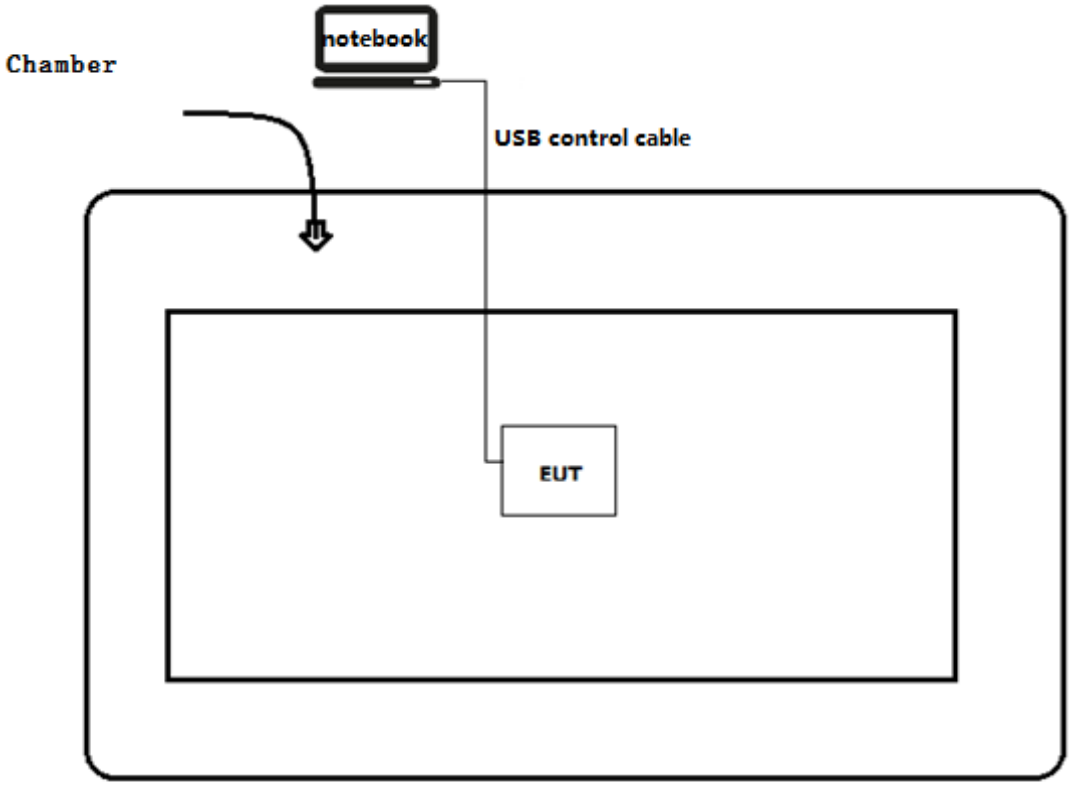
Auxiliary equipment	Type / Version	Manufacturer	Supplied by
Notebook	2526	Think Pad	N/A
Software	Type / Version	Manufacturer	Supplied by
QRCT	N/A	N/A	N/A

2.4 Test Configuration / Block diagram used for tests

Test setup Diagram- AC Line Conducted Emission Test



Test setup Diagram- Radiated Emission



2.5 Testing process

1	Setup the EUT as shown in Section 2.4.
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	2021	Operation within the bands902–928 MHz, 2400–2483.5 MHz, and5725–5850 MHz.
ANSI C63.10	2013	American National Standard ofProcedures for Compliance Testing ofUnlicensed Wireless Devices
KDB558074 D01 v05r02	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 forCompliance of Radio Apparatus
RSS-247 Issue 2	2017	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

For FCC

Requirement – Test case	Basic standard(s)	Verdict	Remark
AC Power Line Conducted Emission	FCC 15.207	PASS	---
Emissions in restricted frequency bands	FCC 15.247(b)(3)	PASS	---
Duty cycle	ANSI C63.10:2013	PASS	---
Emissions in non-restricted frequency bands	FCC 15.247(d), FCC 15.209	PASS	---
Band Edge	FCC 15.247(d)	PASS	---
Fundamental emission output power	FCC 15.247(d), FCC 15.209	PASS	---
DTS Bandwidth	FCC 15.247(a)(2)	PASS	---
Power Spectral Density	FCC 15.247(e)	PASS	---
Antenna Requirement	FCC 15.203	PASS	---

For ISED

Requirement – Test case	Basic standard(s)	Verdict	Remark
AC Power Line Conducted Emission	RSS-Gen Issue 5Section 8.8	PASS	---
Emissions in restricted frequency bands	RSS-Gen Issue 5 Section 8.9	PASS	---
Duty cycle	ANSI C63.10:2013	PASS	---
Emissions in non-restricted frequency bands	RSS-247 Issue 2 Section 5.5	PASS	---
Band Edge	RSS-Gen Issue 5 Section 8.10	PASS	---
Fundamental emission output power	RSS-247 Issue 2 Section 5.4(d)	PASS	---
DTS Bandwidth	RSS-Gen Issue 5 Section 6.7	PASS	---
Power Spectral Density	RSS-247 Issue 2 Section 5.2(b)	PASS	---
Antenna Requirement	RSS-Gen Issue 5 Section 6.8	PASS	---

3.4 Test Facility

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

4 TEST RESULTS

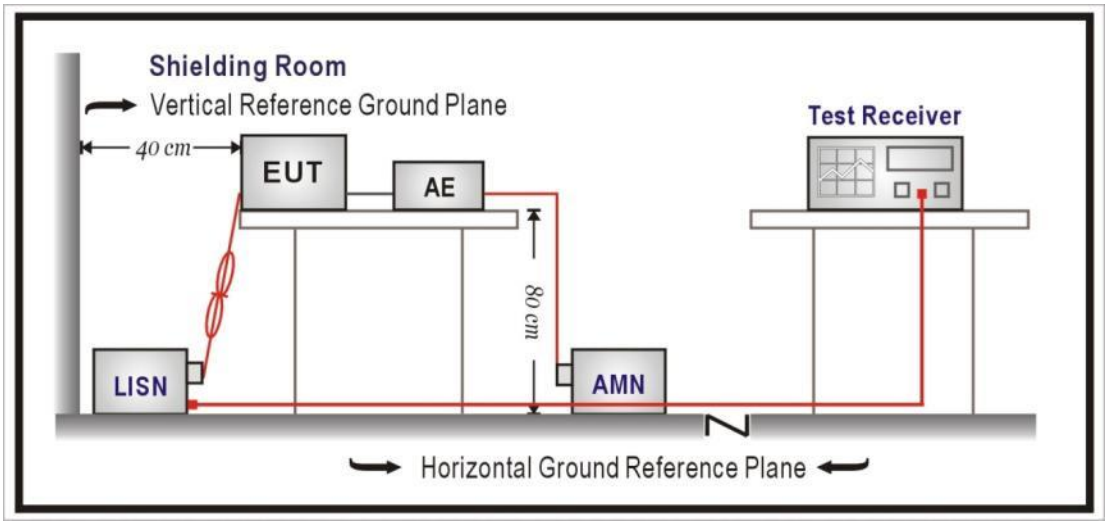
4.1 AC Power Line Conducted Emission	VERDICT: PASS

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

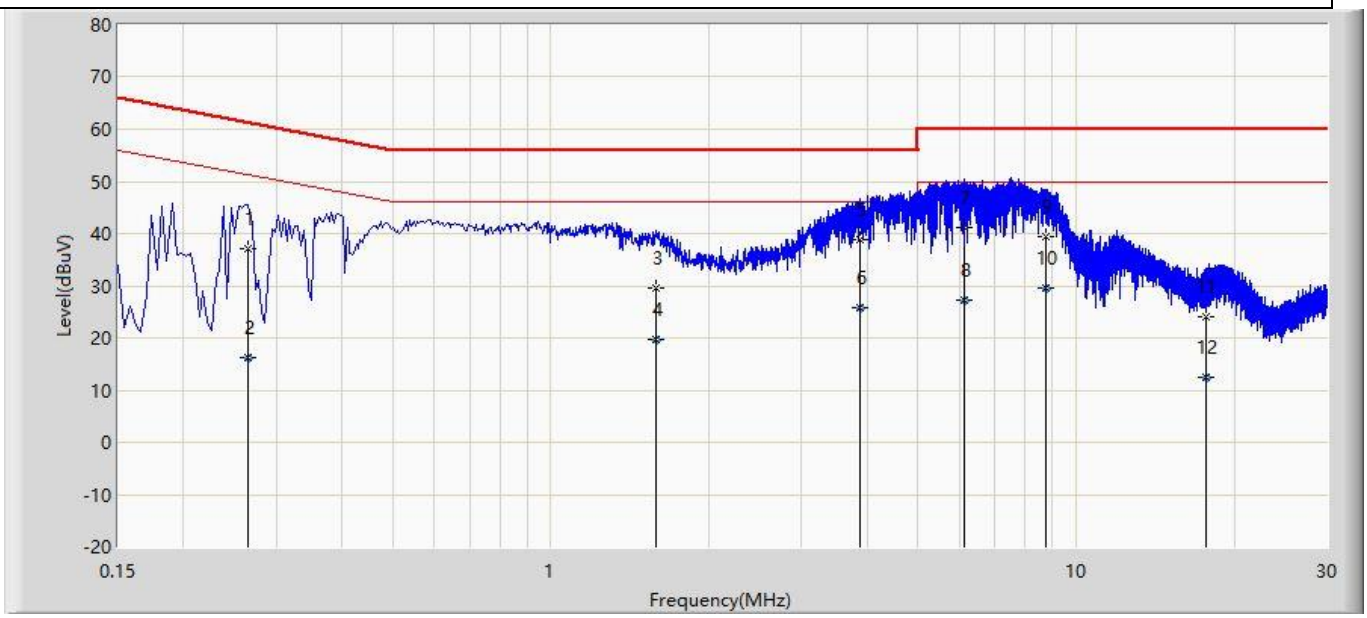


4.1.3 Test Procedure

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

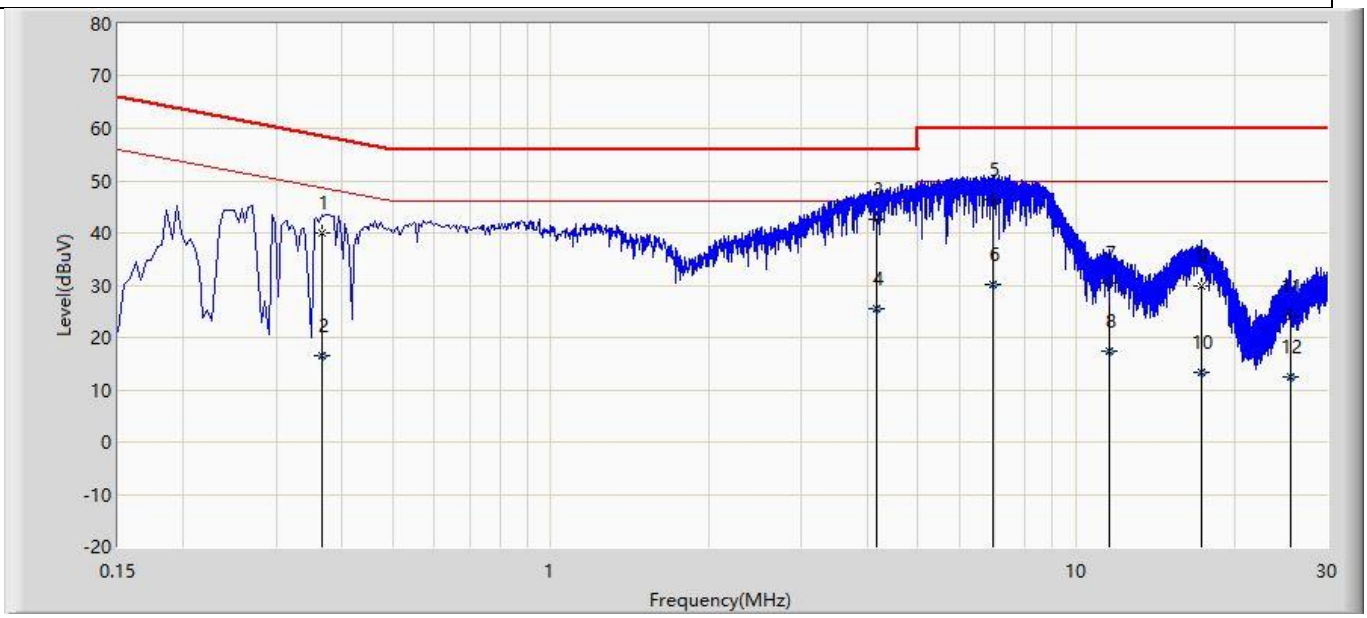
4.1.4 Test Data

Profile: 2250805R	Page No.: 61
Engineer: YuLiu	
Site: TR1	Time: 2022/06/20 - 22:21
Limit: FCC_Part15.207_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Line
EUT: VR All-In-One Headset	Power: AC 120V/60Hz
Note: Mode1	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.266	37.104	27.508	-24.138	61.242	9.596	QP
2		0.266	16.349	6.752	-34.893	51.242	9.596	AV
3		1.586	29.562	19.898	-26.438	56.000	9.664	QP
4		1.586	19.840	10.176	-26.160	46.000	9.664	AV
5	*	3.878	38.813	29.042	-17.187	56.000	9.771	QP
6		3.878	25.893	16.122	-20.107	46.000	9.771	AV
7		6.122	41.137	31.271	-18.863	60.000	9.866	QP
8		6.122	27.306	17.440	-22.694	50.000	9.866	AV
9		8.770	39.550	29.579	-20.450	60.000	9.970	QP
10		8.770	29.573	19.603	-20.427	50.000	9.970	AV
11		17.646	24.077	13.891	-35.923	60.000	10.185	QP
12		17.646	12.470	2.285	-37.530	50.000	10.185	AV

Profile: 2250805R	Page No.: 62
Engineer: YuLiu	
Site: TR1	Time: 2022/06/20 - 22:35
Limit: FCC_Part15.207_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Neutral
EUT: VR All-In-One Headset	Power: AC 120V/60Hz
Note: Mode1	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.366	39.957	30.362	-18.634	58.591	9.595	QP
2		0.366	16.542	6.947	-32.049	48.591	9.595	AV
3	*	4.182	42.465	32.692	-13.535	56.000	9.773	QP
4		4.182	25.391	15.618	-20.609	46.000	9.773	AV
5		6.954	46.395	36.496	-13.605	60.000	9.899	QP
6		6.954	30.005	20.106	-19.995	50.000	9.899	AV
7		11.534	30.411	20.356	-29.589	60.000	10.055	QP
8		11.534	17.515	7.460	-32.485	50.000	10.055	AV
9		17.366	29.967	19.760	-30.033	60.000	10.206	QP
10		17.366	13.195	2.989	-36.805	50.000	10.206	AV
11		25.594	24.181	13.769	-35.819	60.000	10.412	QP
12		25.594	12.425	2.013	-37.575	50.000	10.412	AV

4.2 Emissions in restricted frequency bands — VERDICT: PASS

4.2.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.209		
Restricted Bands of operationfor 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			
Restricted Bands of operationfor IC			
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	--	

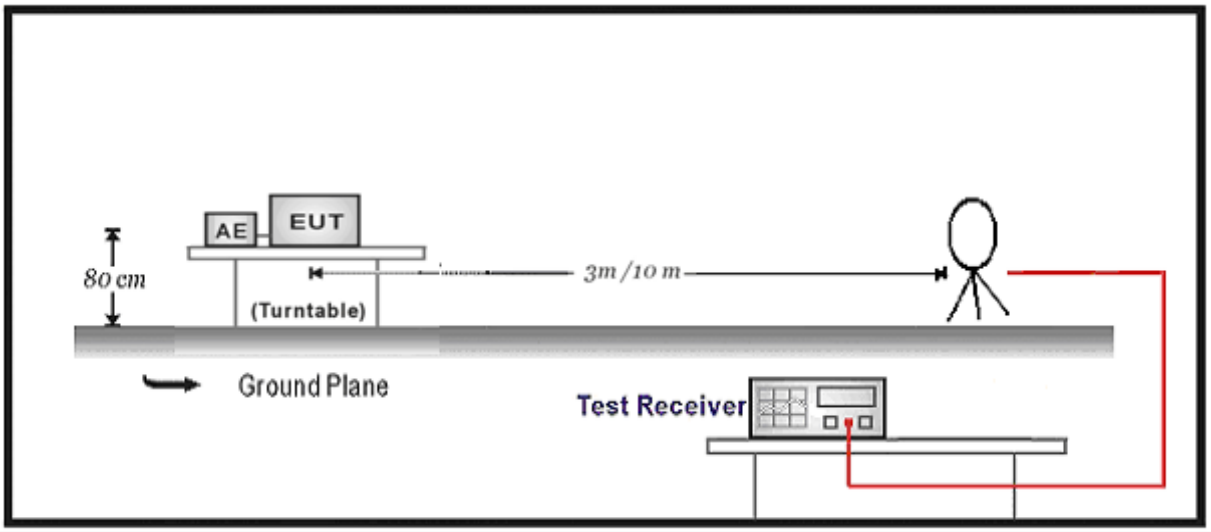
Restricted Band Emissions Limit			
Frequency (MHz)	Field strength (μ V/m)	Field strength (dB μ V/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30(Note 1)
1.705 - 30	30	29.5	30(Note 1)
30 -88	100	40	3(Note 2)
88-216	150	43.5	3(Note 2)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

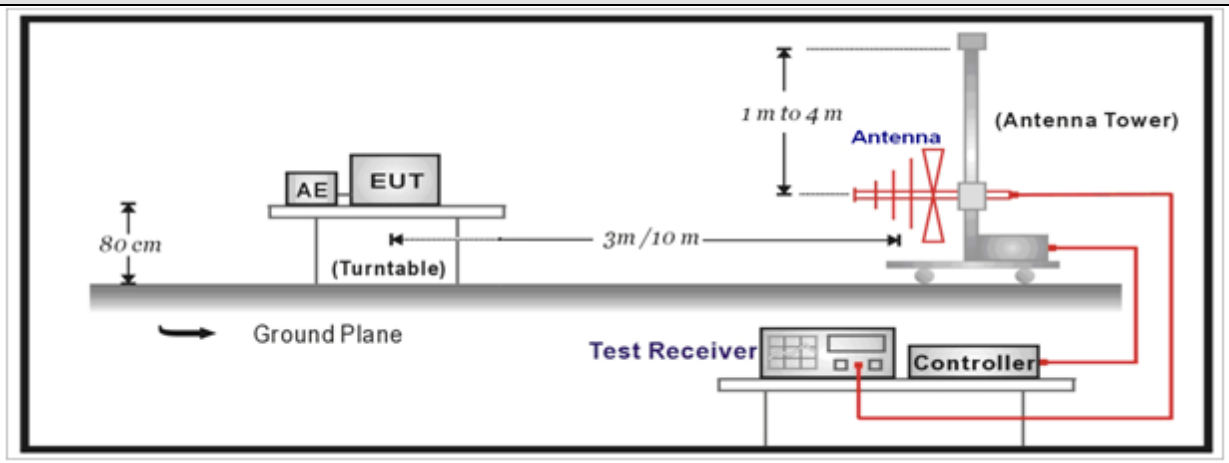
Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated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

4.2.2 Test Setup

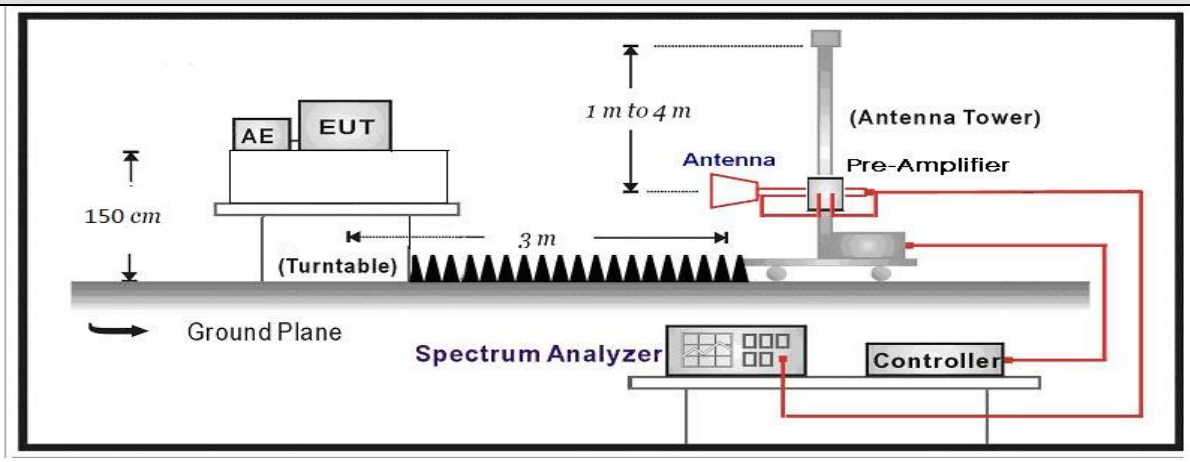
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:

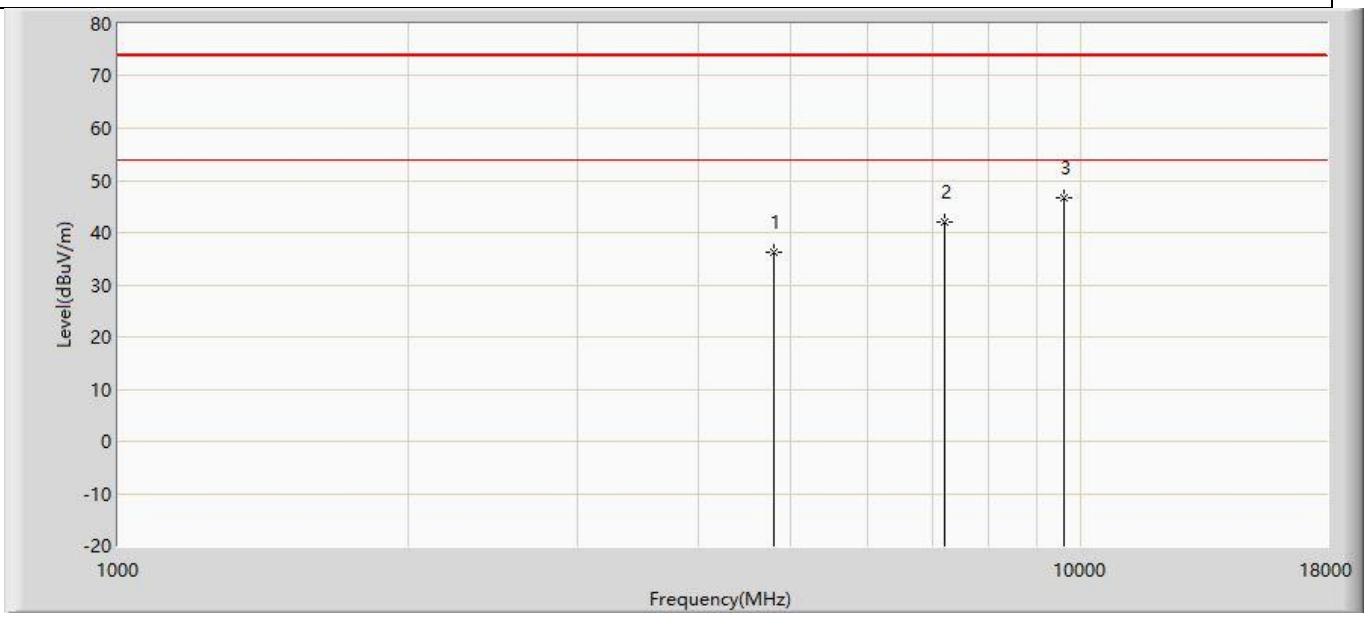


4.2.3 Test Procedure

	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

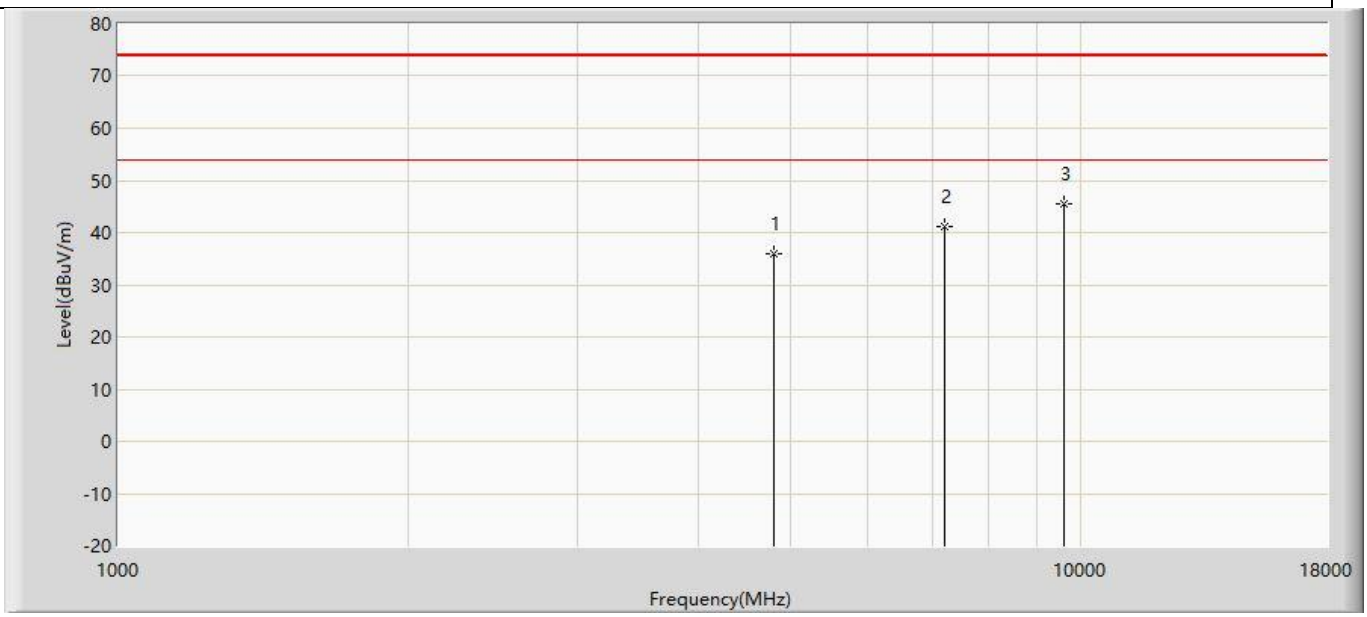
4.2.4 Test Data

Profile: 2250805R	Page No.: 25
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 03:50
Limit: FCC-15.209	Margin: 0
Probe: FCC_ANT-1-18G	Polarity: Horizontal
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2402MHz by BLE_1M	



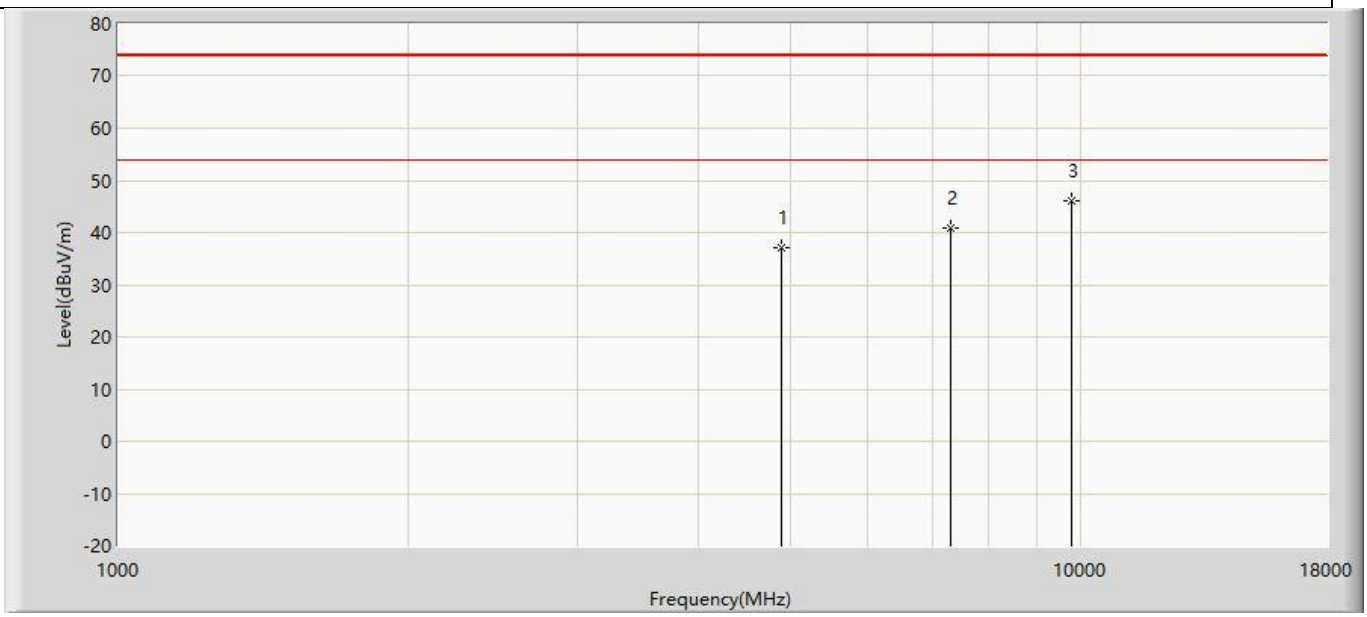
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	36.354	51.012	-37.646	74.000	-14.657	PK
2		7206.000	42.137	50.868	-31.863	74.000	-8.731	PK
3	*	9608.000	46.526	51.348	-27.474	74.000	-4.822	PK

Profile: 2250805R	Page No.: 26
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 03:50
Limit: FCC-15.209	Margin: 0
Probe: FCC_ANT-1-18G	Polarity: Vertical
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2402MHz by BLE_1M	



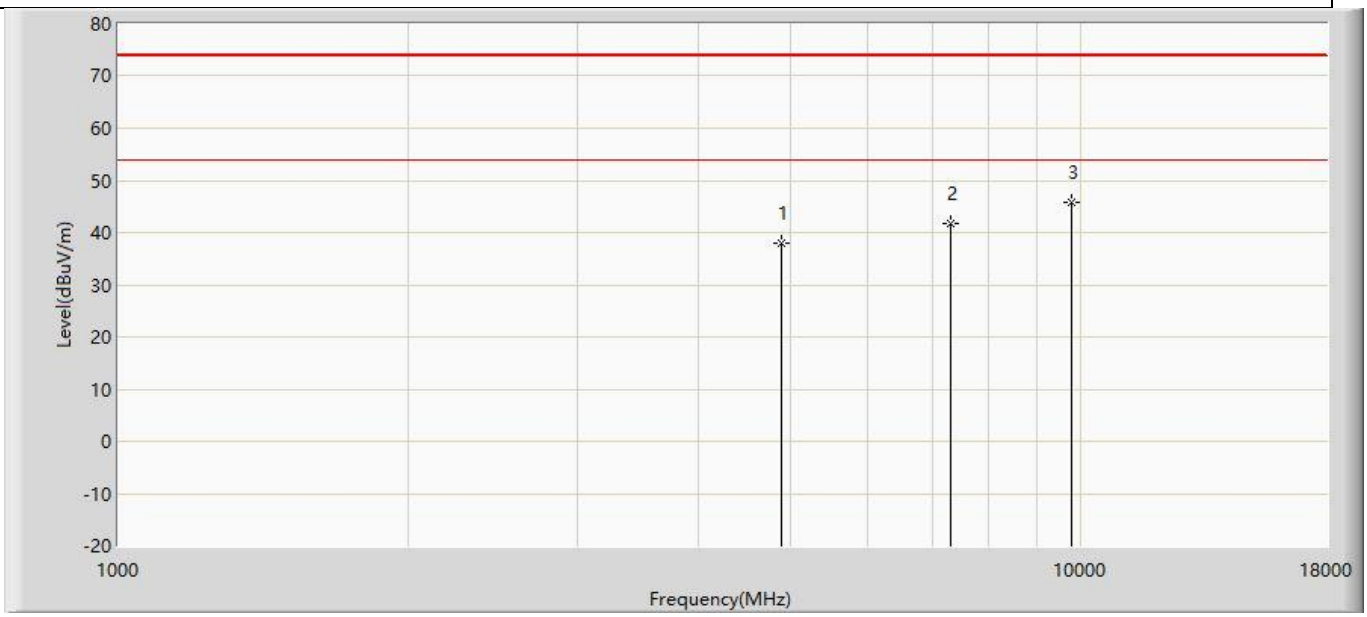
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	36.046	50.704	-37.954	74.000	-14.657	PK
2		7206.000	41.110	49.841	-32.890	74.000	-8.731	PK
3	*	9608.000	45.501	50.323	-28.499	74.000	-4.822	PK

Profile: 2250805R	Page No.: 27
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 03:50
Limit: FCC-15.209	Margin: 0
Probe: FCC_ANT-1-18G	Polarity: Horizontal
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2440MHz by BLE_1M	



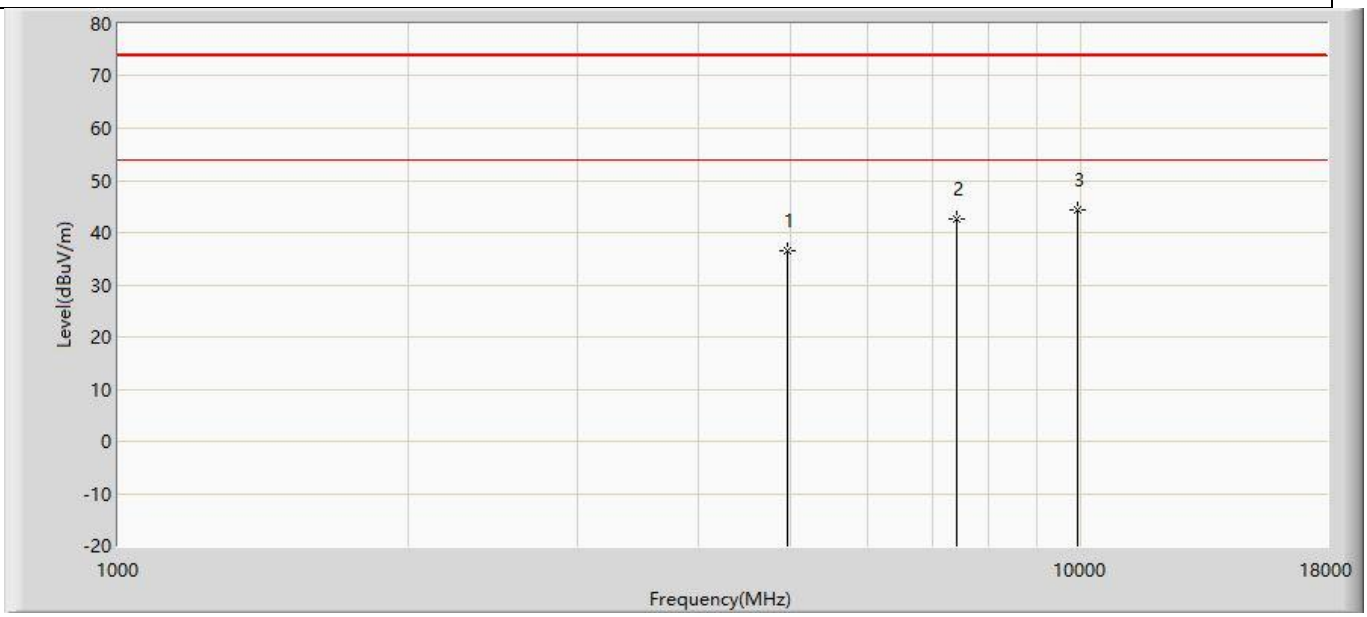
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4880.000	37.065	51.453	-36.935	74.000	-14.388	PK
2		7320.000	40.832	49.152	-33.168	74.000	-8.320	PK
3	*	9760.000	46.057	50.731	-27.943	74.000	-4.673	PK

Profile: 2250805R	Page No.: 28
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 03:50
Limit: FCC-15.209	Margin: 0
Probe: FCC_ANT-1-18G	Polarity: Vertical
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2440MHz by BLE_1M	



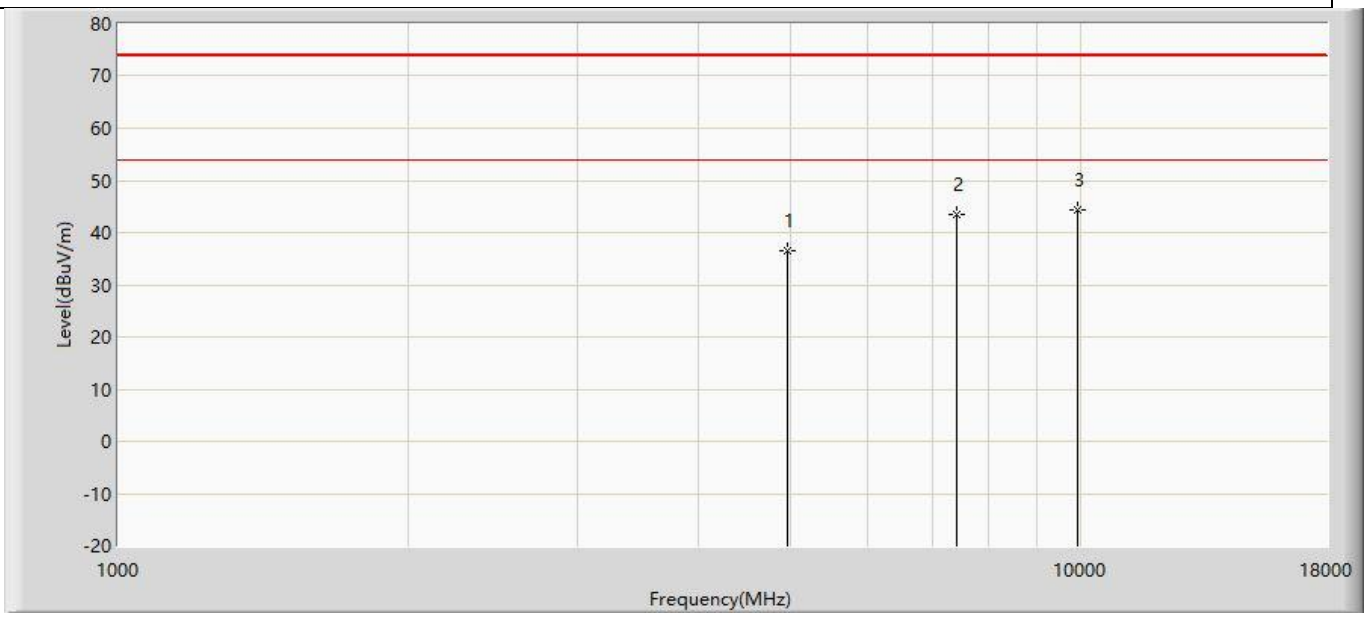
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4880.000	38.027	52.415	-35.973	74.000	-14.388	PK
2		7320.000	41.734	50.054	-32.266	74.000	-8.320	PK
3	*	9760.000	45.808	50.482	-28.192	74.000	-4.673	PK

Profile: 2250805R	Page No.: 29
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 03:50
Limit: FCC-15.209	Margin: 0
Probe: FCC_ANT-1-18G	Polarity: Horizontal
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2480MHz by BLE_1M	



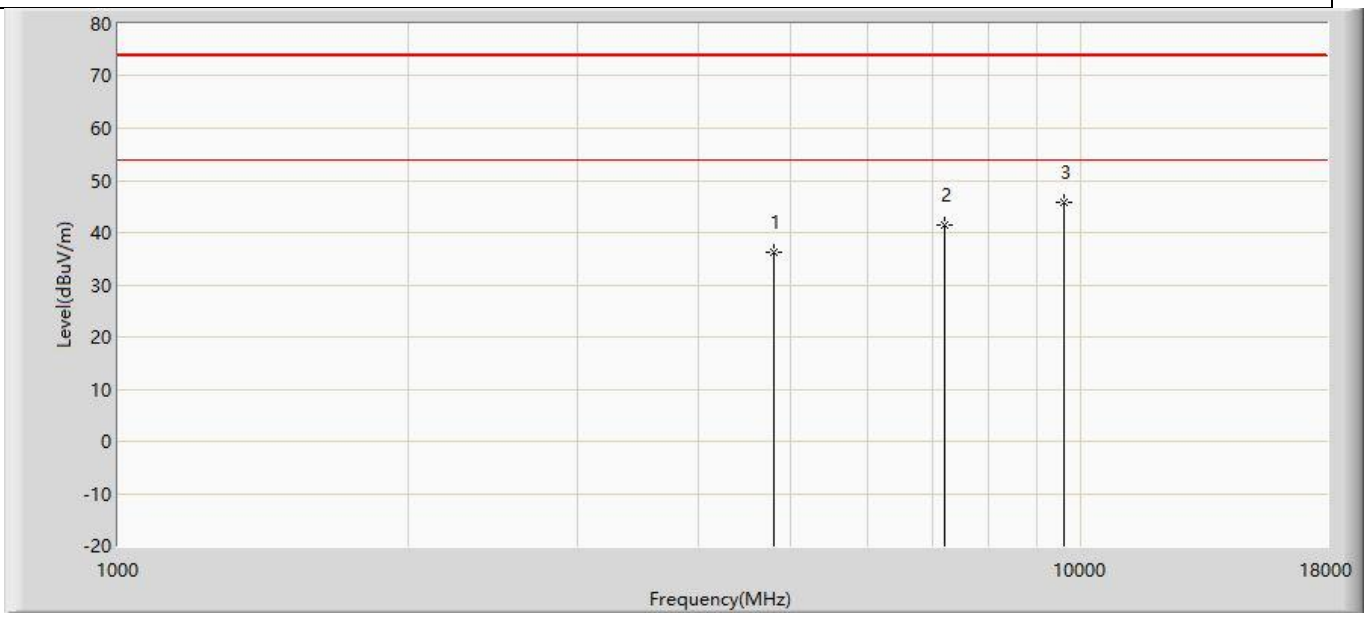
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	36.578	50.698	-37.422	74.000	-14.120	PK
2		7440.000	42.557	50.392	-31.443	74.000	-7.834	PK
3	*	9920.000	44.436	48.507	-29.564	74.000	-4.071	PK

Profile: 2250805R	Page No.: 30
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 03:50
Limit: FCC-15.209	Margin: 0
Probe: FCC_ANT-1-18G	Polarity: Vertical
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2480MHz by BLE_1M	



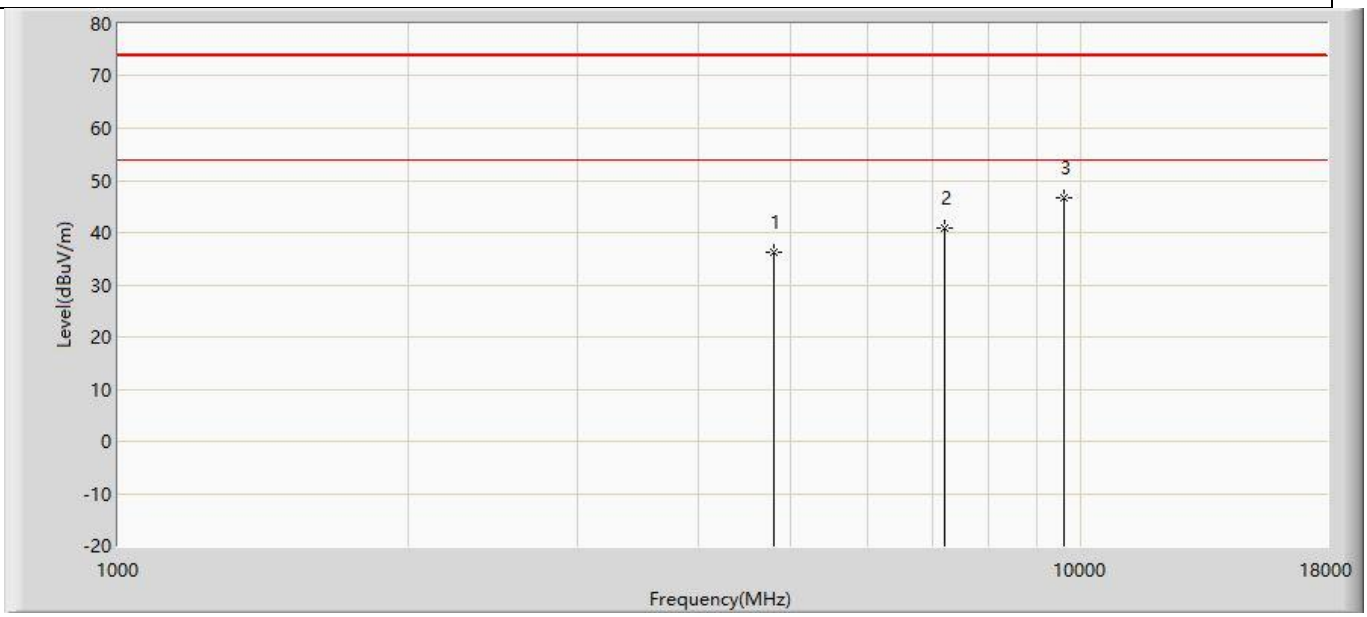
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	36.653	50.773	-37.347	74.000	-14.120	PK
2		7440.000	43.382	51.217	-30.618	74.000	-7.834	PK
3	*	9920.000	44.405	48.476	-29.595	74.000	-4.071	PK

Profile: 2250805R	Page No.: 31
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 03:50
Limit: FCC-15.209	Margin: 0
Probe: FCC_ANT-1-18G	Polarity: Horizontal
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2402MHz by BLE_2M	



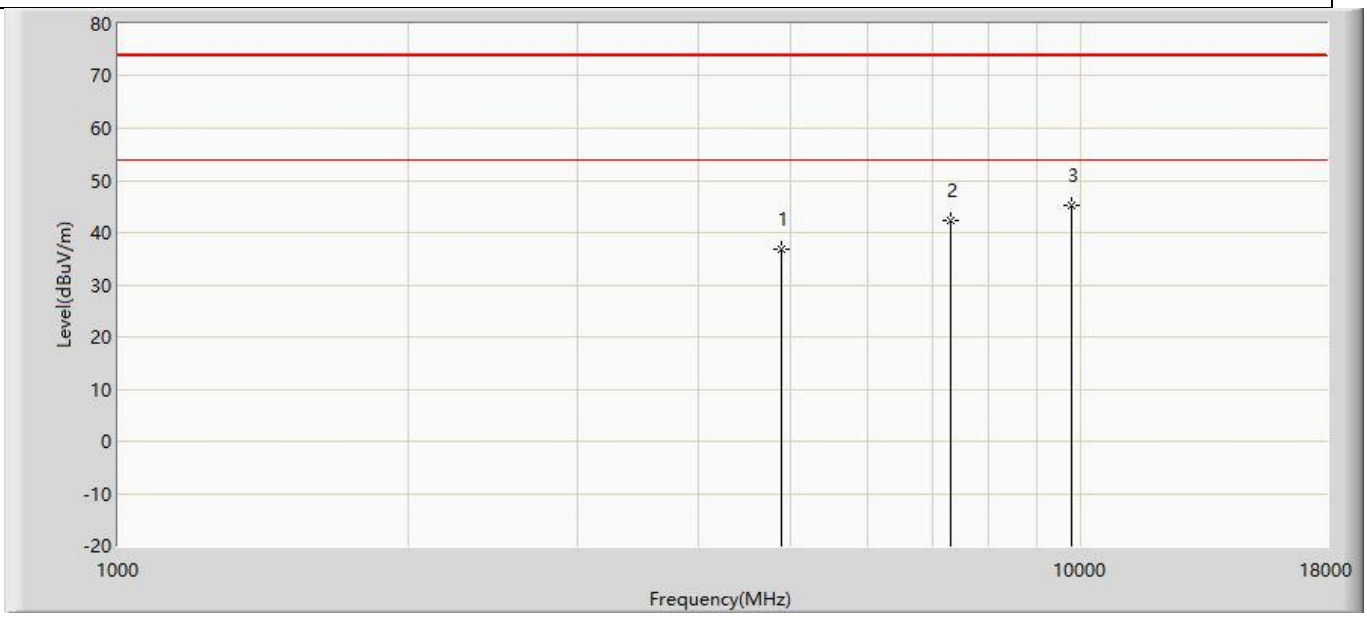
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	36.105	50.763	-37.895	74.000	-14.657	PK
2		7206.000	41.381	50.112	-32.619	74.000	-8.731	PK
3	*	9608.000	45.699	50.521	-28.301	74.000	-4.822	PK

Profile: 2250805R	Page No.: 32
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 03:50
Limit: FCC-15.209	Margin: 0
Probe: FCC_ANT-1-18G	Polarity: Vertical
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2402MHz by BLE_2M	



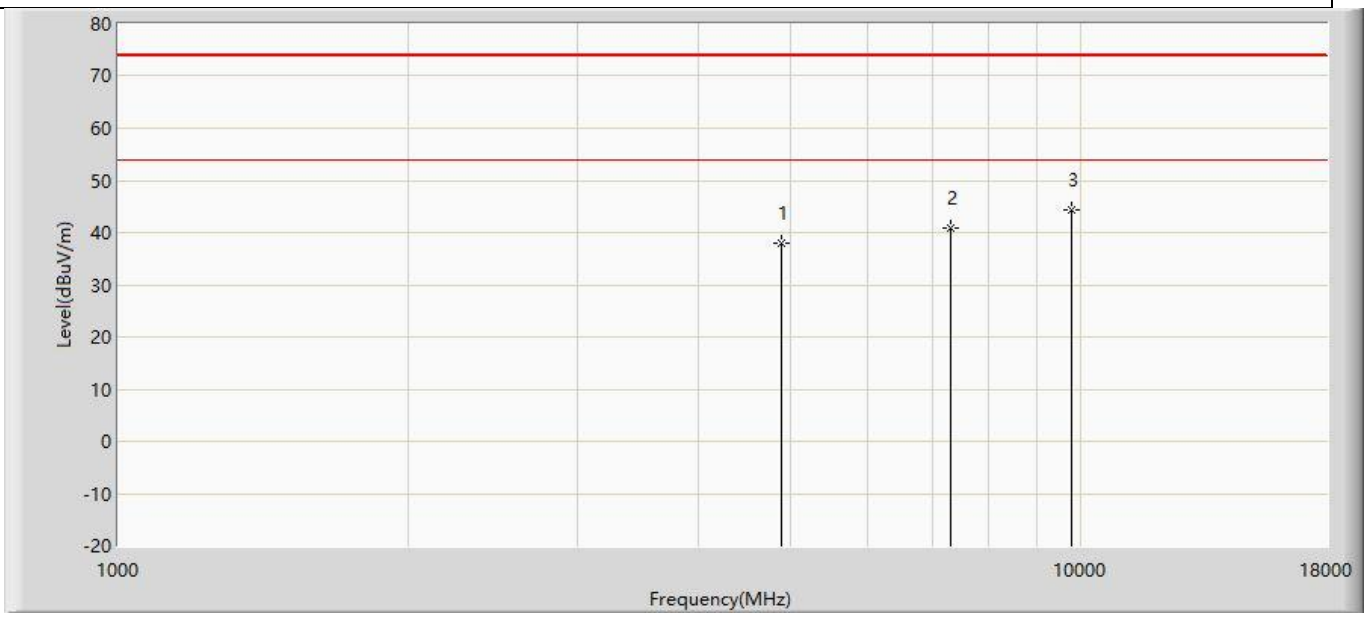
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	36.224	50.882	-37.776	74.000	-14.657	PK
2		7206.000	40.944	49.675	-33.056	74.000	-8.731	PK
3	*	9608.000	46.677	51.499	-27.323	74.000	-4.822	PK

Profile: 2250805R	Page No.: 33
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 03:50
Limit: FCC-15.209	Margin: 0
Probe: FCC_ANT-1-18G	Polarity: Horizontal
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2440MHz by BLE_2M	



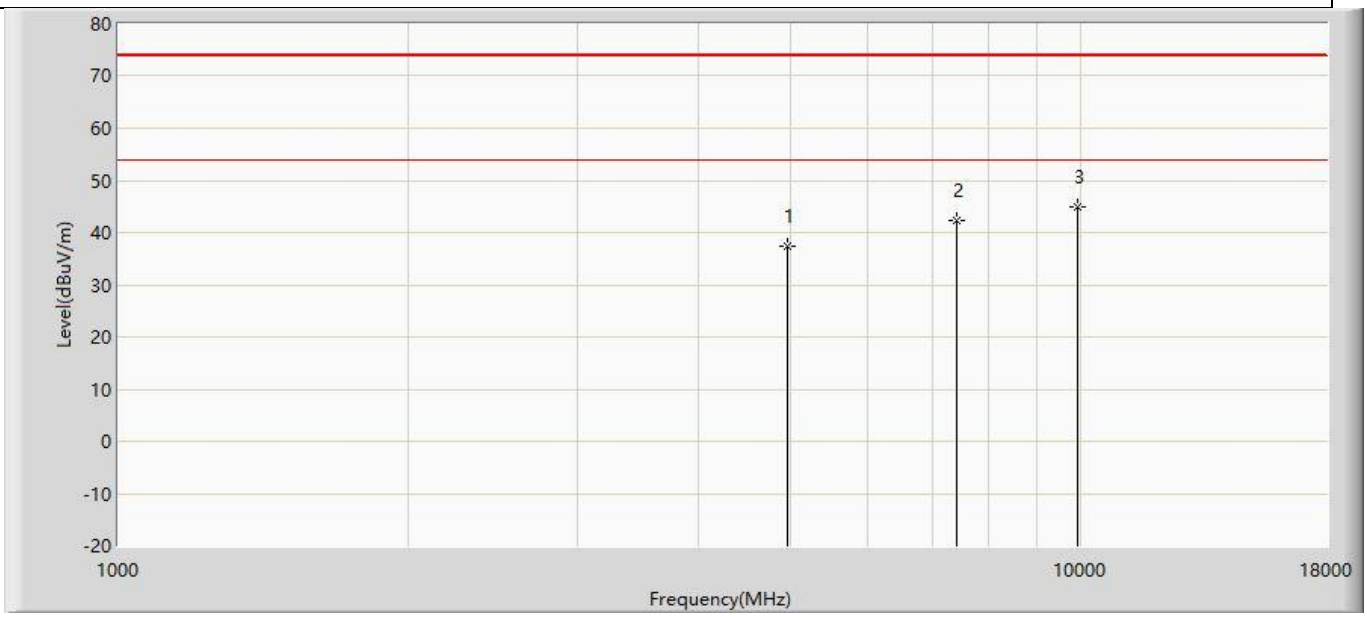
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4880.000	36.754	51.142	-37.246	74.000	-14.388	PK
2		7320.000	42.433	50.753	-31.567	74.000	-8.320	PK
3	*	9760.000	45.269	49.943	-28.731	74.000	-4.673	PK

Profile: 2250805R	Page No.: 34
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 03:50
Limit: FCC-15.209	Margin: 0
Probe: FCC_ANT-1-18G	Polarity: Vertical
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2440MHz by BLE_2M	



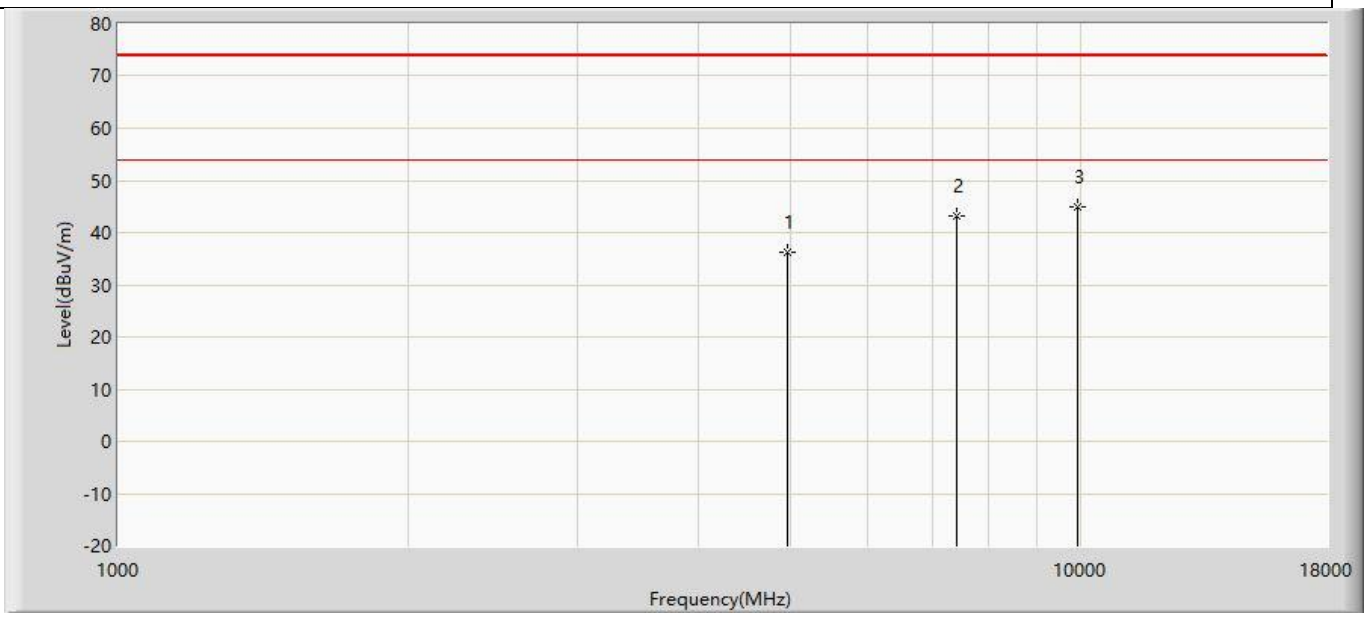
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4880.000	37.900	52.288	-36.100	74.000	-14.388	PK
2		7320.000	40.789	49.109	-33.211	74.000	-8.320	PK
3	*	9760.000	44.226	48.900	-29.774	74.000	-4.673	PK

Profile: 2250805R	Page No.: 35
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 03:51
Limit: FCC-15.209	Margin: 0
Probe: FCC_ANT-1-18G	Polarity: Horizontal
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2480MHz by BLE_2M	



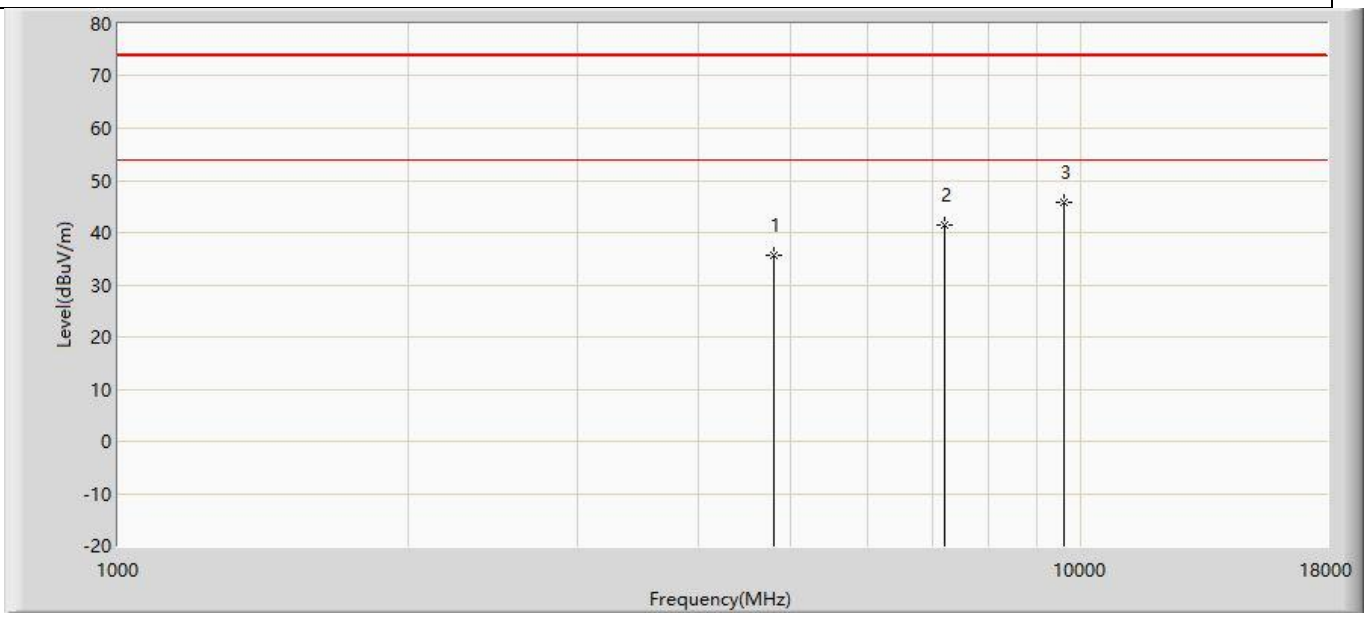
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	37.444	51.564	-36.556	74.000	-14.120	PK
2		7440.000	42.212	50.047	-31.788	74.000	-7.834	PK
3	*	9920.000	44.815	48.886	-29.185	74.000	-4.071	PK

Profile: 2250805R	Page No.: 36
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 03:51
Limit: FCC-15.209	Margin: 0
Probe: FCC_ANT-1-18G	Polarity: Vertical
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2480MHz by BLE_2M	



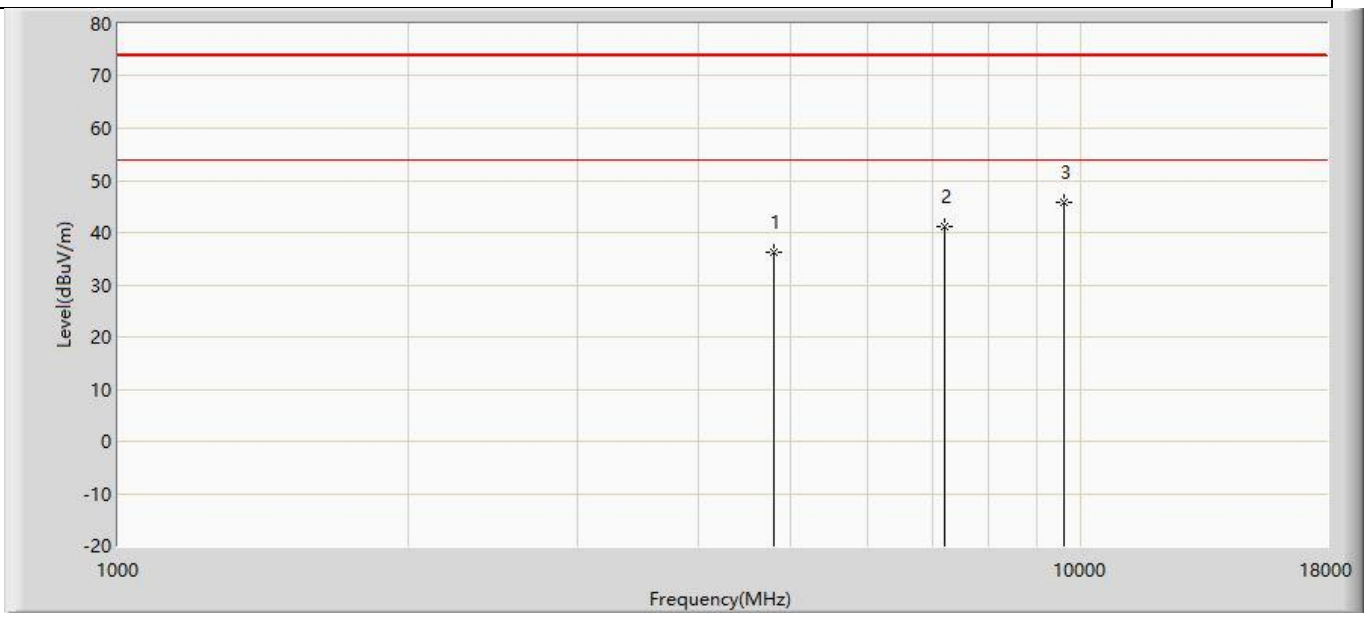
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	36.246	50.366	-37.754	74.000	-14.120	PK
2		7440.000	43.230	51.065	-30.770	74.000	-7.834	PK
3	*	9920.000	45.028	49.099	-28.972	74.000	-4.071	PK

Profile: 2250805R	Page No.: 37
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 03:51
Limit: FCC-15.209	Margin: 0
Probe: FCC_ANT-1-18G	Polarity: Horizontal
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2402MHz by BLE_Coded2	



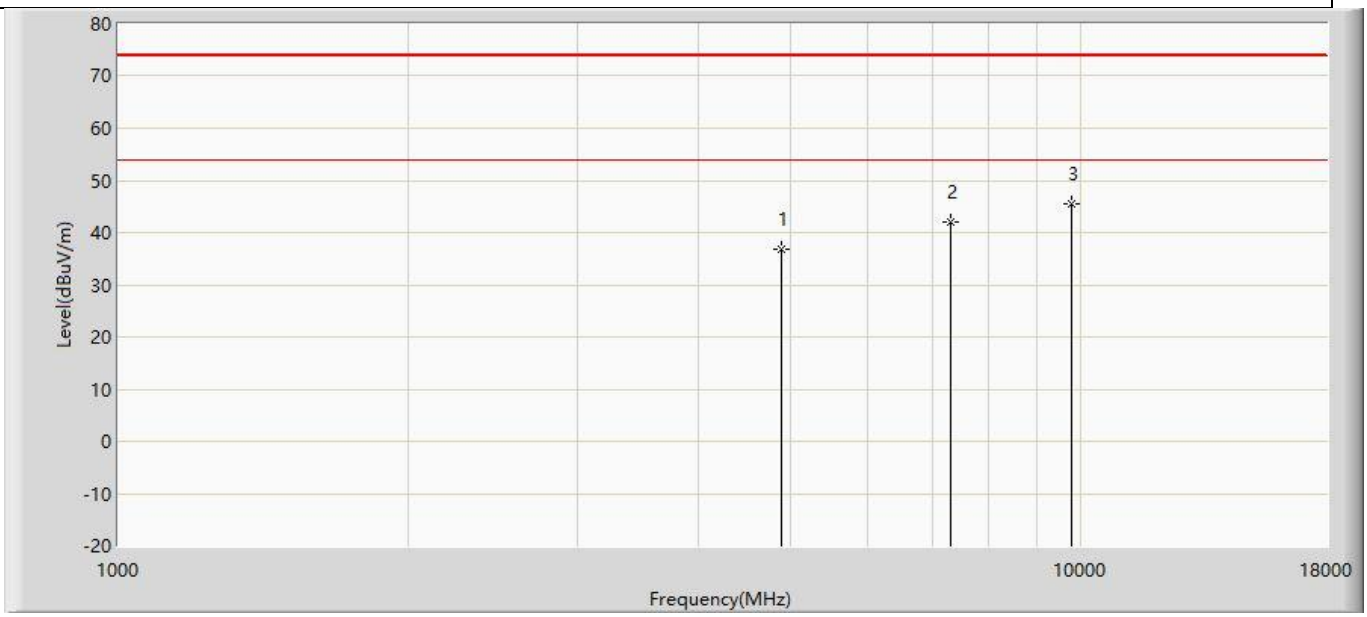
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	35.587	50.245	-38.413	74.000	-14.657	PK
2		7206.000	41.354	50.085	-32.646	74.000	-8.731	PK
3	*	9608.000	45.778	50.600	-28.222	74.000	-4.822	PK

Profile: 2250805R	Page No.: 38
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 03:51
Limit: FCC-15.209	Margin: 0
Probe: FCC_ANT-1-18G	Polarity: Vertical
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2402MHz by BLE_Coded2	



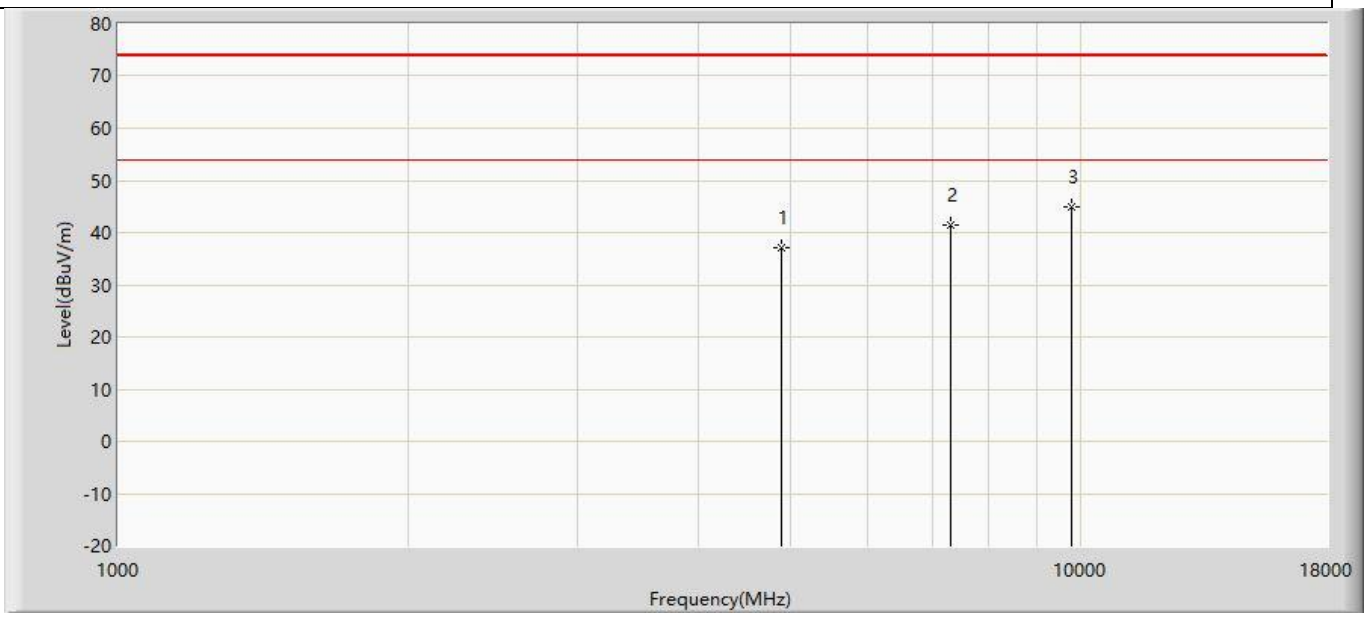
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	36.186	50.844	-37.814	74.000	-14.657	PK
2		7206.000	41.094	49.825	-32.906	74.000	-8.731	PK
3	*	9608.000	45.761	50.583	-28.239	74.000	-4.822	PK

Profile: 2250805R	Page No.: 39
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 03:51
Limit: FCC-15.209	Margin: 0
Probe: FCC_ANT-1-18G	Polarity: Horizontal
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2440MHz by BLE_Coded2	



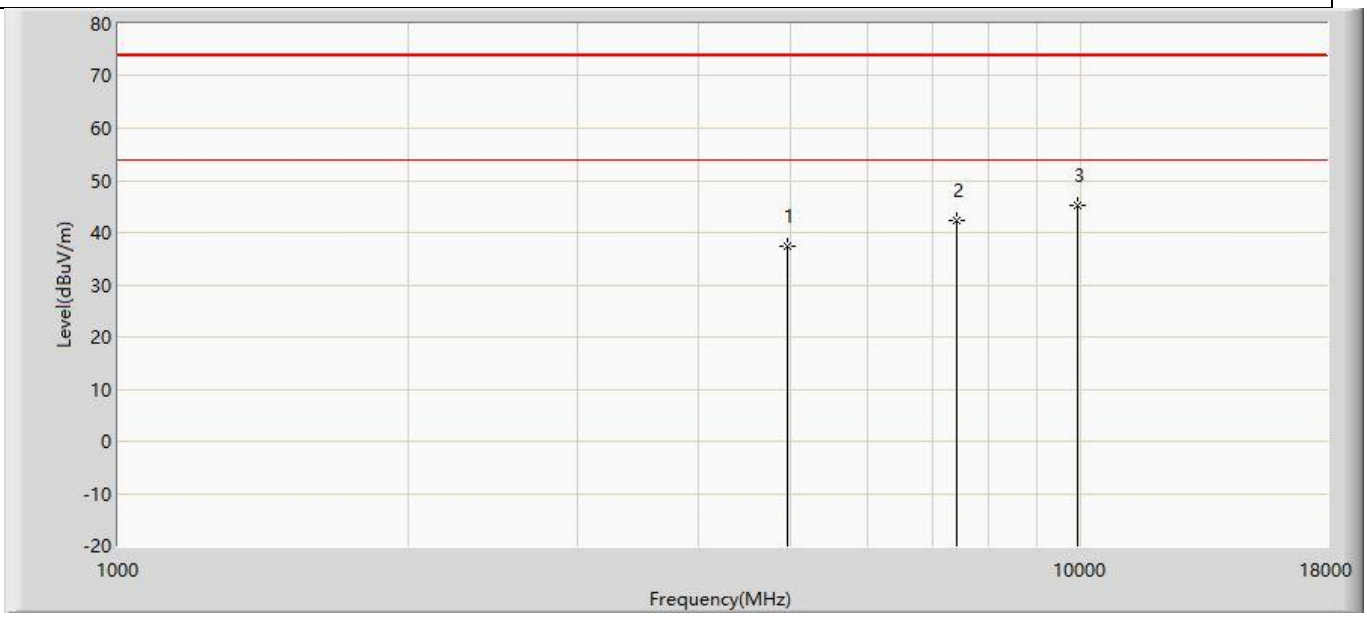
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4880.000	36.842	51.230	-37.158	74.000	-14.388	PK
2		7320.000	41.970	50.290	-32.030	74.000	-8.320	PK
3	*	9760.000	45.374	50.048	-28.626	74.000	-4.673	PK

Profile: 2250805R	Page No.: 40
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 03:51
Limit: FCC-15.209	Margin: 0
Probe: FCC_ANT-1-18G	Polarity: Vertical
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2440MHz by BLE_Coded2	



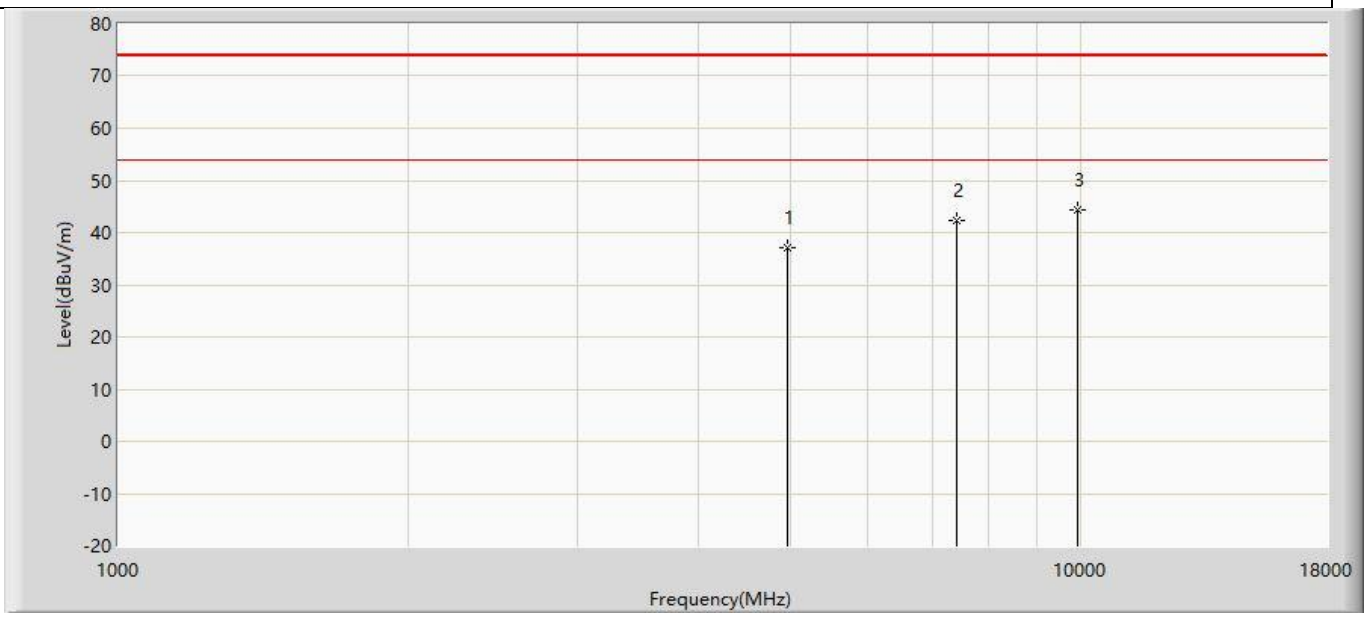
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4880.000	37.128	51.516	-36.872	74.000	-14.388	PK
2		7320.000	41.378	49.698	-32.622	74.000	-8.320	PK
3	*	9760.000	44.821	49.495	-29.179	74.000	-4.673	PK

Profile: 2250805R	Page No.: 41
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 03:51
Limit: FCC-15.209	Margin: 0
Probe: FCC_ANT-1-18G	Polarity: Horizontal
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2480MHz by BLE_Coded2	



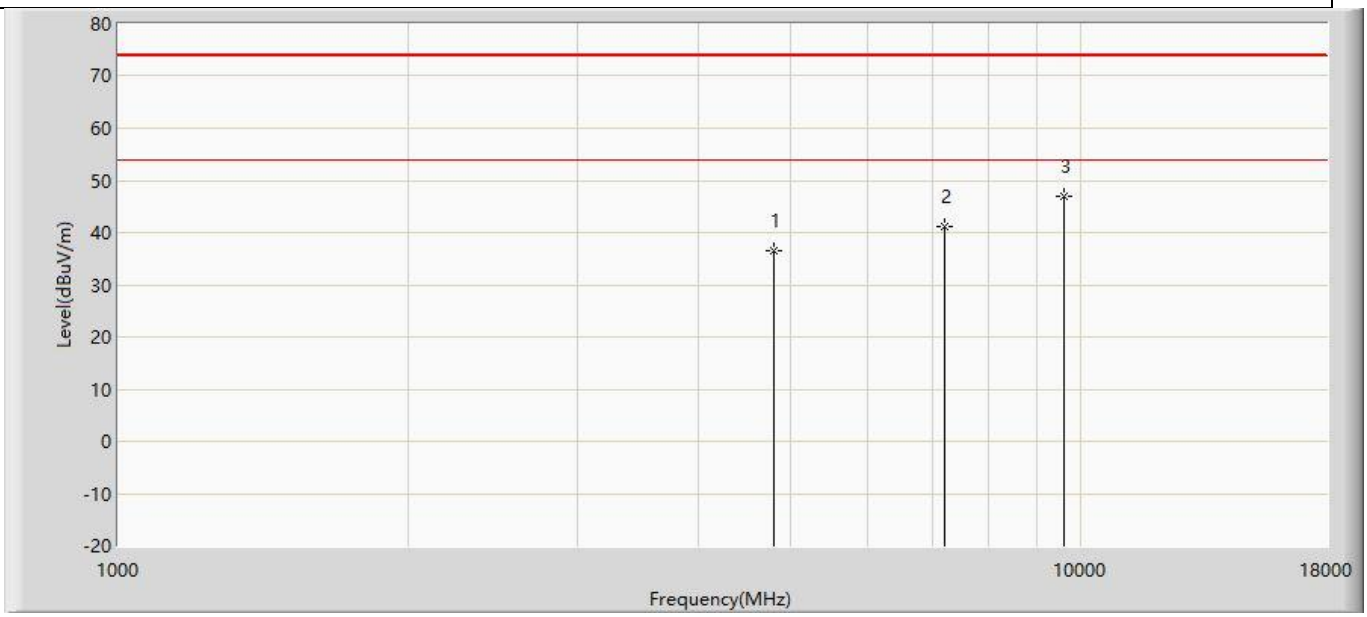
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	37.519	51.639	-36.481	74.000	-14.120	PK
2		7440.000	42.409	50.244	-31.591	74.000	-7.834	PK
3	*	9920.000	45.152	49.223	-28.848	74.000	-4.071	PK

Profile: 2250805R	Page No.: 42
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 03:51
Limit: FCC-15.209	Margin: 0
Probe: FCC_ANT-1-18G	Polarity: Vertical
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2480MHz by BLE_Coded2	



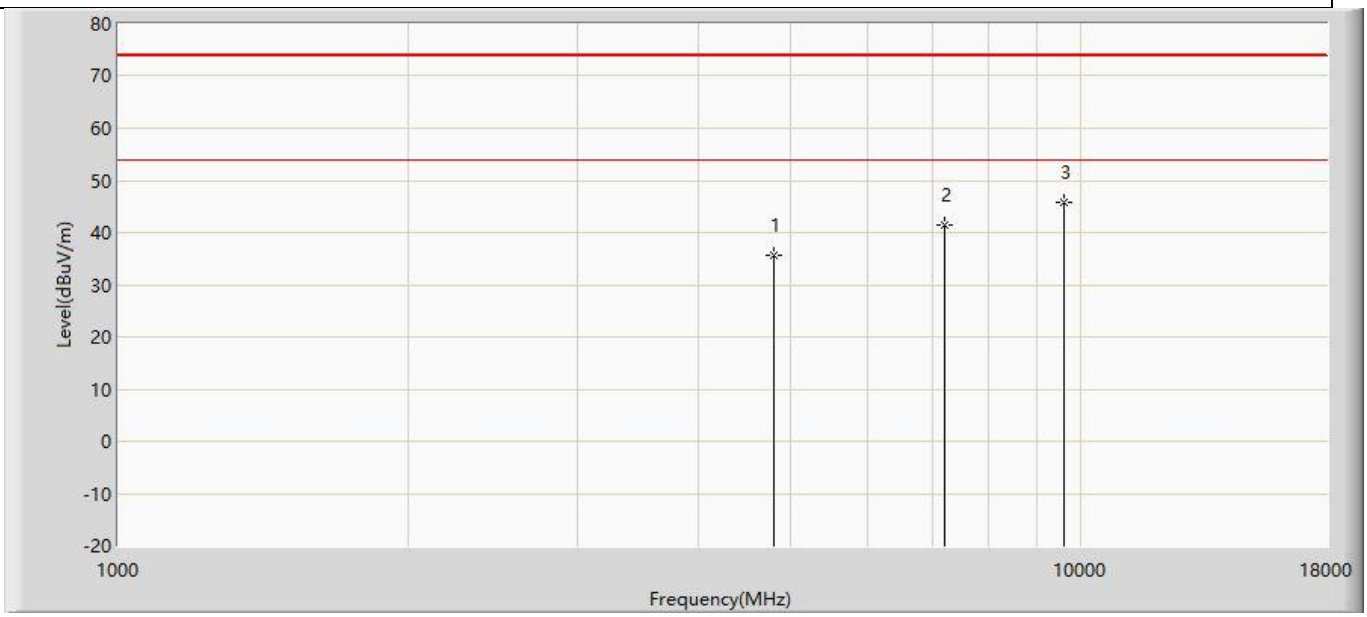
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	37.137	51.257	-36.863	74.000	-14.120	PK
2		7440.000	42.411	50.246	-31.589	74.000	-7.834	PK
3	*	9920.000	44.312	48.383	-29.688	74.000	-4.071	PK

Profile: 2250805R	Page No.: 43
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 03:51
Limit: FCC-15.209	Margin: 0
Probe: FCC_ANT-1-18G	Polarity: Horizontal
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2402MHz by BLE_Coded8	



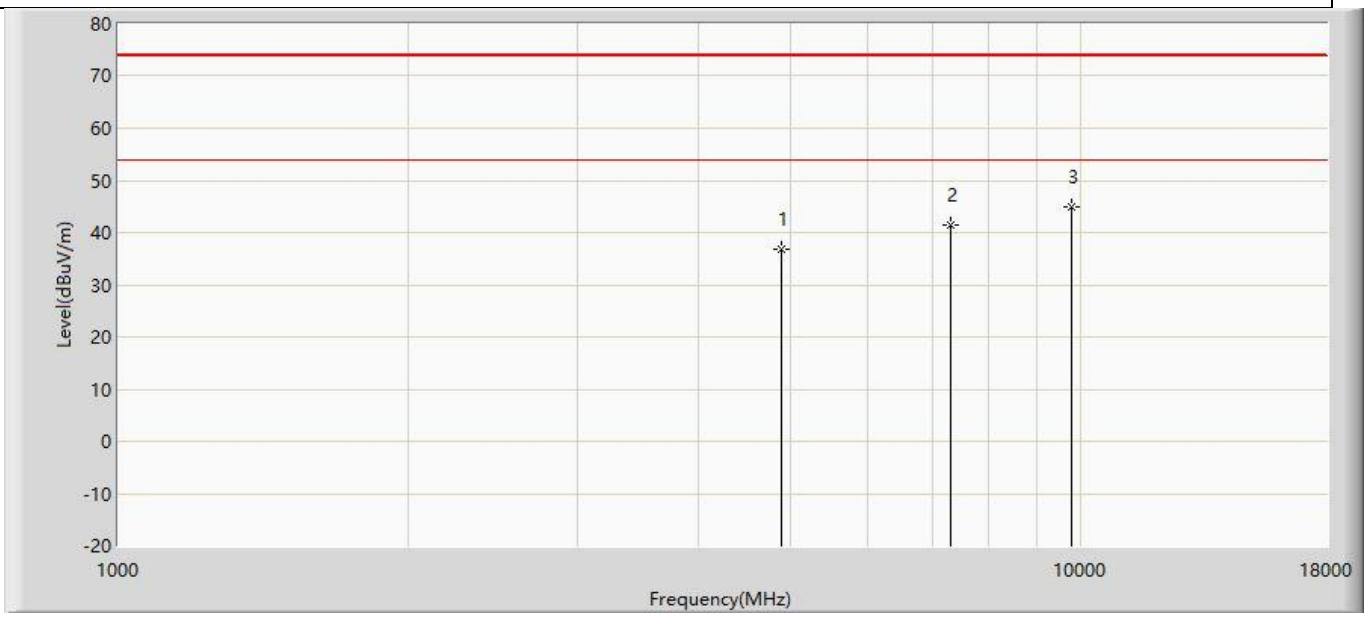
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	36.443	51.101	-37.557	74.000	-14.657	PK
2		7206.000	41.163	49.894	-32.837	74.000	-8.731	PK
3	*	9608.000	46.872	51.694	-27.128	74.000	-4.822	PK

Profile: 2250805R	Page No.: 44
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 03:51
Limit: FCC-15.209	Margin: 0
Probe: FCC_ANT-1-18G	Polarity: Vertical
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2402MHz by BLE_Coded8	



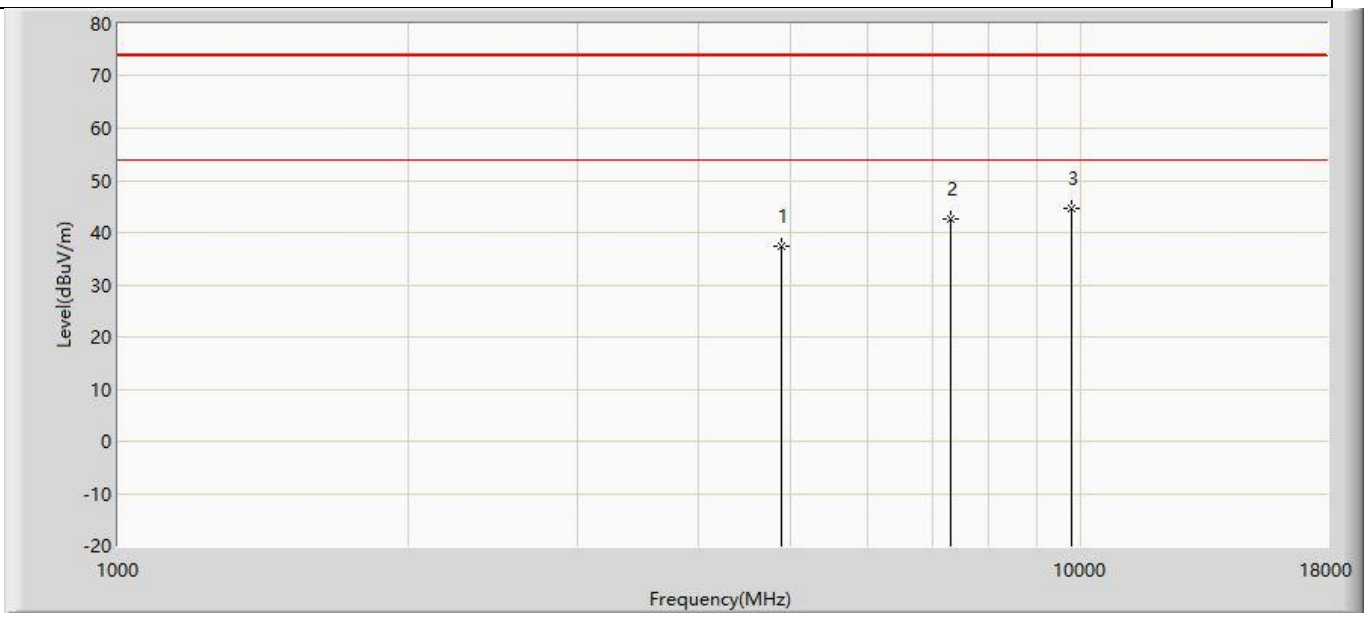
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	35.673	50.331	-38.327	74.000	-14.657	PK
2		7206.000	41.548	50.279	-32.452	74.000	-8.731	PK
3	*	9608.000	45.839	50.661	-28.161	74.000	-4.822	PK

Profile: 2250805R	Page No.: 45
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 03:51
Limit: FCC-15.209	Margin: 0
Probe: FCC_ANT-1-18G	Polarity: Horizontal
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2440HHz by BLE_Coded8	



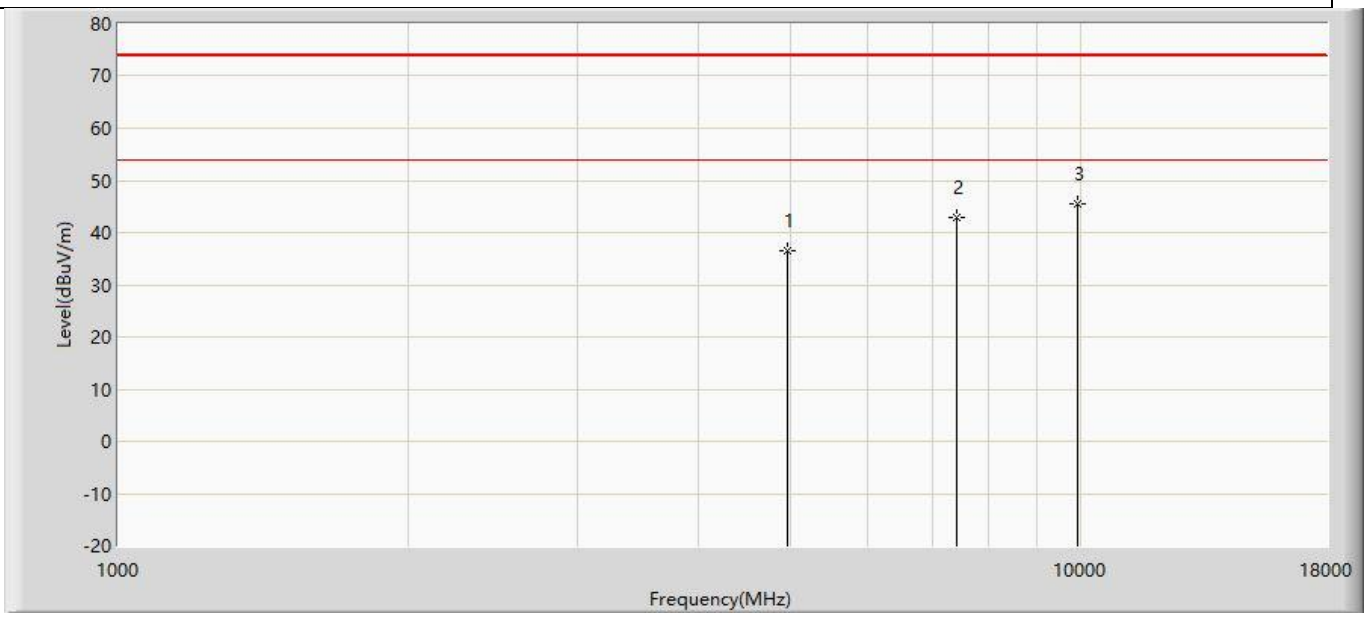
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4880.000	36.710	51.098	-37.290	74.000	-14.388	PK
2		7320.000	41.457	49.777	-32.543	74.000	-8.320	PK
3	*	9760.000	44.808	49.482	-29.192	74.000	-4.673	PK

Profile: 2250805R	Page No.: 46
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 03:51
Limit: FCC-15.209	Margin: 0
Probe: FCC_ANT-1-18G	Polarity: Vertical
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2440HHz by BLE_Coded8	



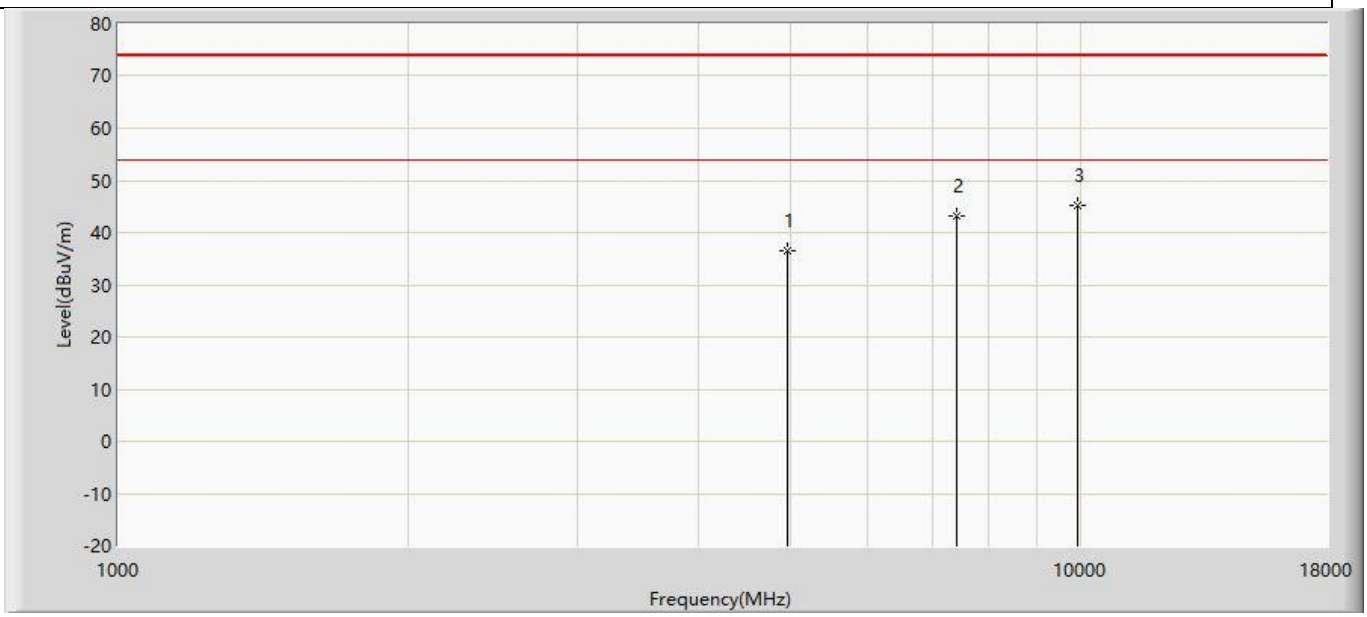
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4880.000	37.456	51.844	-36.544	74.000	-14.388	PK
2		7320.000	42.472	50.792	-31.528	74.000	-8.320	PK
3	*	9760.000	44.666	49.340	-29.334	74.000	-4.673	PK

Profile: 2250805R	Page No.: 47
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 03:51
Limit: FCC-15.209	Margin: 0
Probe: FCC_ANT-1-18G	Polarity: Horizontal
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2480HHz by BLE_Coded8	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	36.590	50.710	-37.410	74.000	-14.120	PK
2		7440.000	42.970	50.805	-31.030	74.000	-7.834	PK
3	*	9920.000	45.382	49.453	-28.618	74.000	-4.071	PK

Profile: 2250805R	Page No.: 48
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 03:51
Limit: FCC-15.209	Margin: 0
Probe: FCC_ANT-1-18G	Polarity: Vertical
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2480HHz by BLE_Coded8	

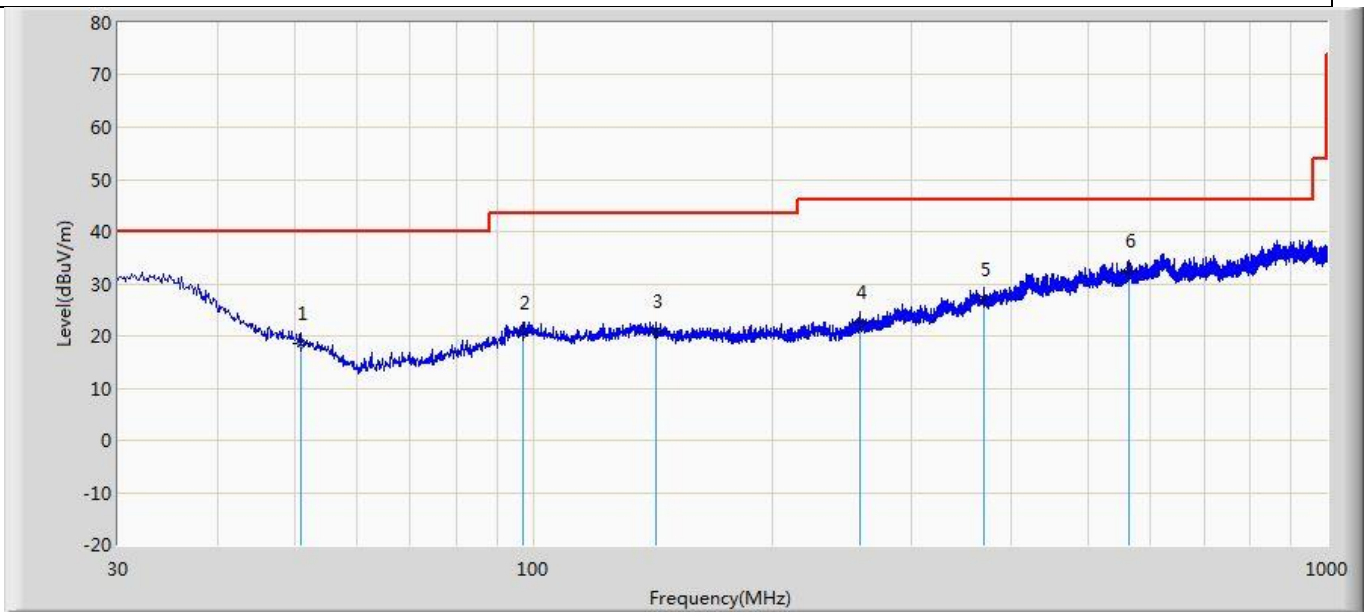


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	36.484	50.604	-37.516	74.000	-14.120	PK
2		7440.000	43.218	51.053	-30.782	74.000	-7.834	PK
3	*	9920.000	45.292	49.363	-28.708	74.000	-4.071	PK

Note:
1. Measured Level = Reading Level + Factor.
2. The test frequency range, 9kHz~30MHz, worst case are at least 20dB below the limits, therefore no data appear in the report.
3. 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.
4. 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.
5. As the radiated emission was performed, so conducted emission was not tested.

The worst case of Radiated Emission below 1GHz:

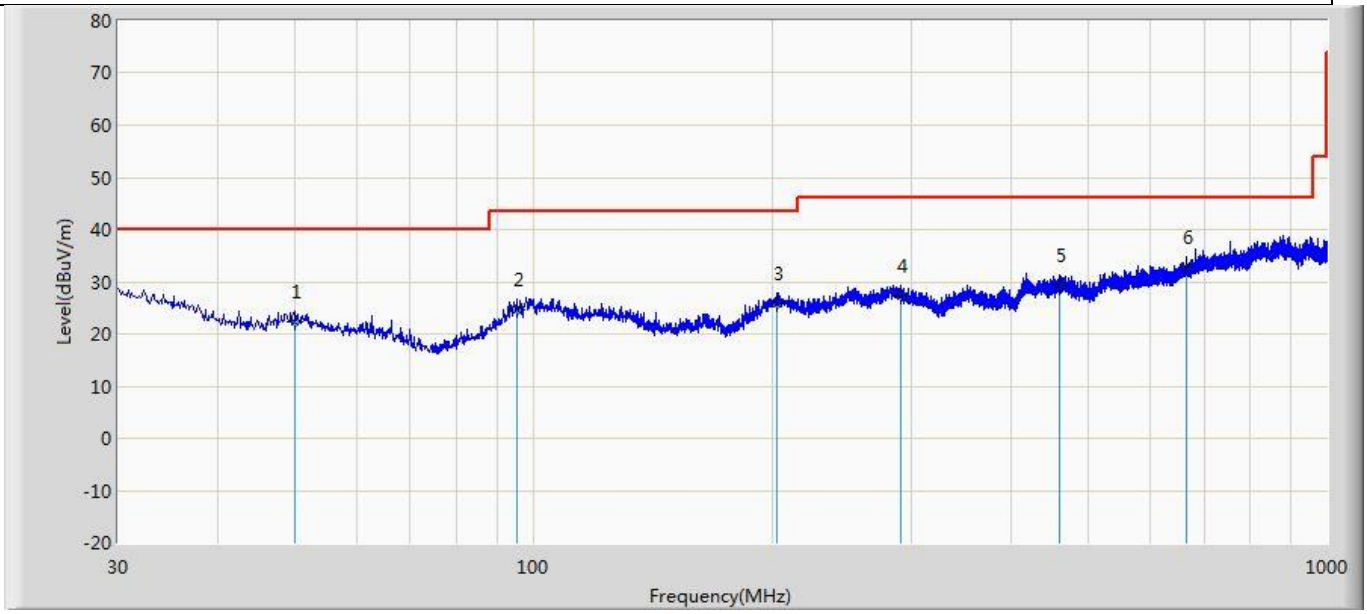
Profile: 2250805R	Page No.: 39
Engineer: YuLiu	
Site: AC3	Time: 2022/06/20 - 20:43
Limit: FCC_Part15.209_RE(3m)_ClassB	Margin: 0
Probe: AC2_3M(30-1000M)	Polarity: Horizontal
EUT: VR All-In-One Headset	Power: 120V/60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		50.976	18.545	3.162	-21.455	40.000	15.383	QP
2		96.930	20.723	4.925	-22.777	43.500	15.798	QP
3		143.126	20.730	3.560	-22.770	43.500	17.170	QP
4		257.586	22.609	3.796	-23.391	46.000	18.814	QP
5		369.621	27.066	2.928	-18.934	46.000	24.138	QP
6	*	563.864	32.366	3.580	-13.634	46.000	28.786	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)

Profile: 2250805R	Page No.: 40
Engineer: YuLiu	
Site: AC3	Time: 2022/06/20 - 20:45
Limit: FCC_Part15.209_RE(3m)_ClassB	Margin: 0
Probe: AC2_3M(30-1000M)	Polarity: Vertical
EUT: VR All-In-One Headset	Power: 120V/60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		50.006	22.404	2.962	-17.596	40.000	19.442	QP
2		95.475	24.533	4.506	-18.967	43.500	20.027	QP
3		202.417	25.766	2.283	-17.734	43.500	23.483	QP
4		290.809	27.275	2.655	-18.725	46.000	24.621	QP
5		461.044	29.149	2.752	-16.851	46.000	26.397	QP
6	*	666.199	32.744	3.591	-13.256	46.000	29.153	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).

4.3 Emissions in non-restricted frequency band	VERDICT: PASS

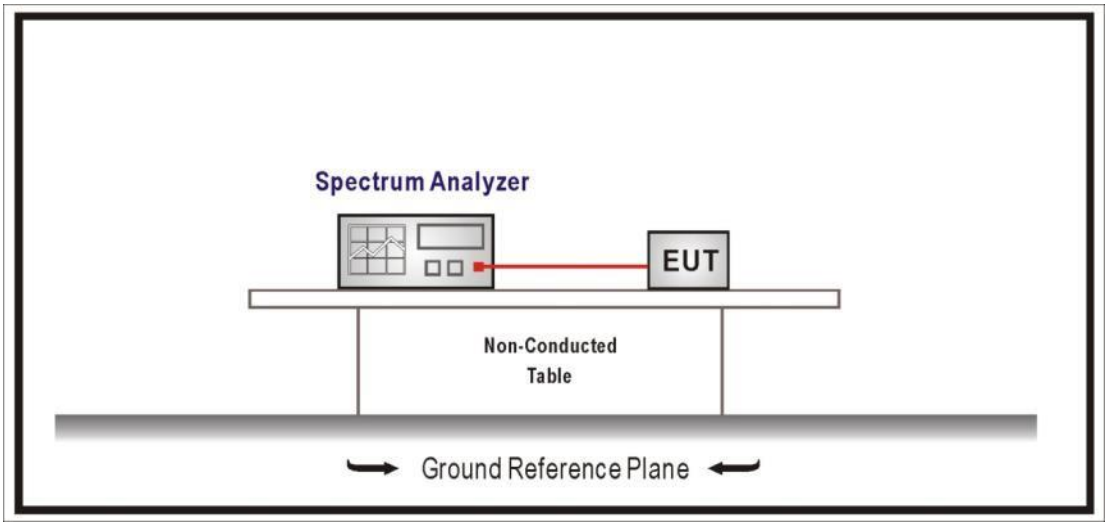
4.3.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.247(d)
RF Output power (Detection methods)	Limit(dB)
RF Output power(Average detector)	30dBc(Note1)
RF Output power(PK detector)	20dBc(Note2)

Note 1: If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).

Note 2: If the maximum peak conducted output power procedure was used, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).

4.3.2 Test Setup



4.3.3 Test Procedure

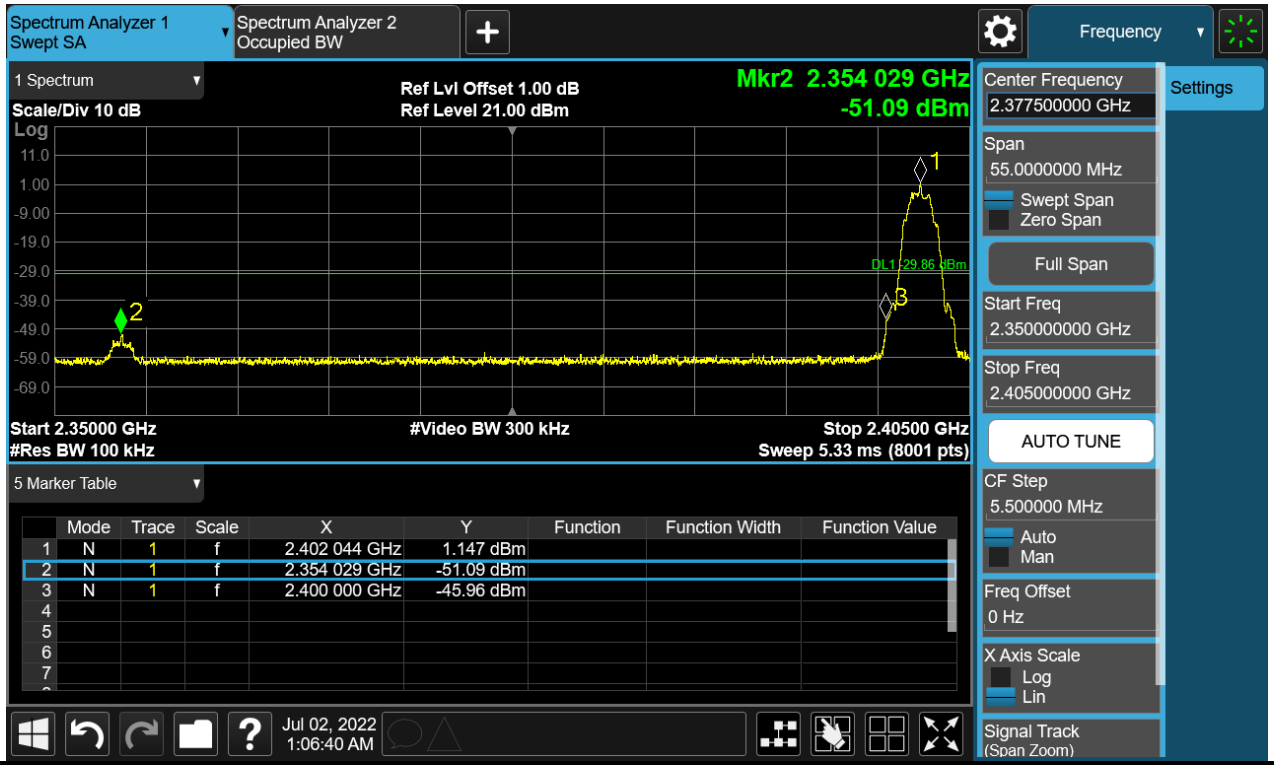
References Rule			Chapter	Description
☒	ANSI C63.10		11.11	Emissions in non-restricted frequency bands
	☒	ANSI C63.10	11.11.1	General
	☒	ANSI C63.10	11.11.2	Reference level measurement
	☒	ANSI C63.10	11.11.3	Emission level measurement

4.3.4 Test Data

Mode	Channel	Test Frequency (MHz)	Maximum In-Band PSD[a] (dBm/100kHz)	Frequency (MHz)	Out-Band PSD[b] (dBm/100kHz)	[a]-[b] (dB)	Limit (dB)	Result
1	00	2402	1.163	2354.063	-50.69	51.853	≥30	Pass
	39	2480	1.504	2528.281	-50.89	52.394	≥30	Pass
2	00	2402	1.147	2400	-45.96	47.107	≥30	Pass
	39	2480	1.530	2528.063	-51.34	52.870	≥30	Pass
3	00	2402	1.443	2353.774	-51.30	52.743	≥30	Pass
	39	2480	1.799	2528.031	-51.33	53.129	≥30	Pass
4	00	2402	-0.105	2354.022	-52.51	52.405	≥30	Pass
	39	2480	-0.247	2528.313	-52.84	52.593	≥30	Pass

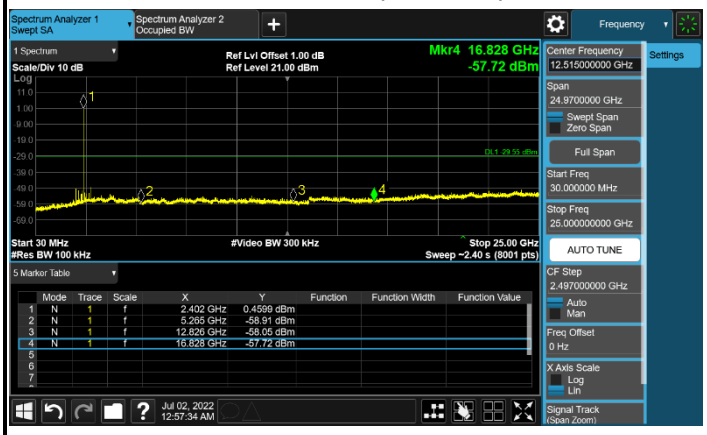
Note: The worst case of emissions in non-restricted frequency bands as below:

Mode 2 CH00(2402MHz)

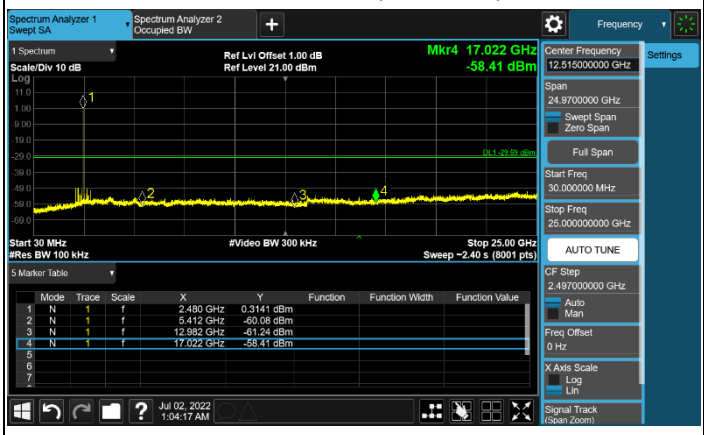


The data of entire corresponding spectrum:

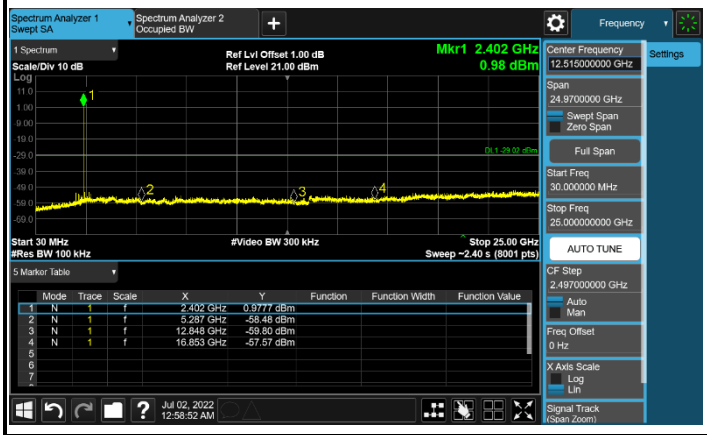
Mode 1 CH00 (2402MHz)



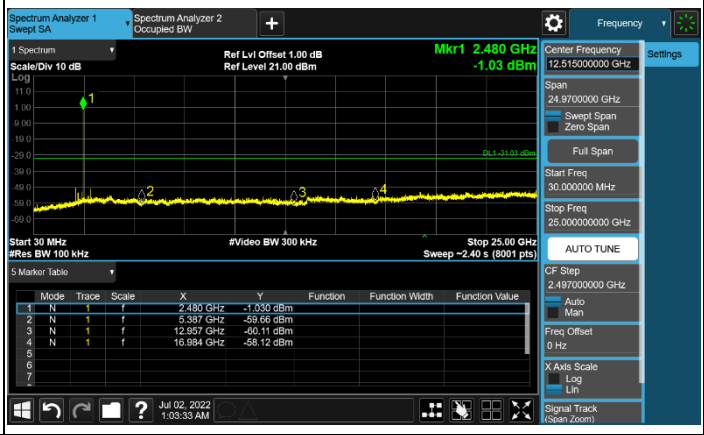
Mode 1 CH39 (2480MHz)



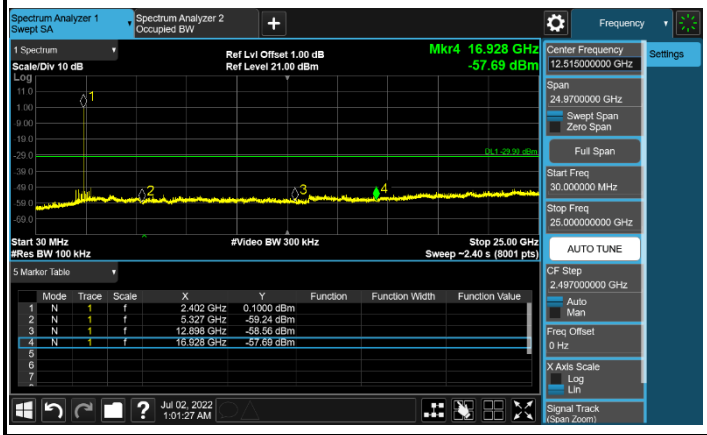
Mode 2 CH00 (2402MHz)



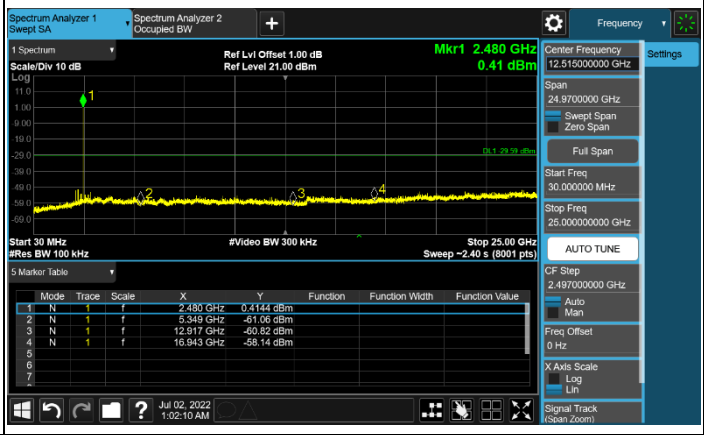
Mode 2 CH39 (2480MHz)



Mode 3 CH00 (2402MHz)

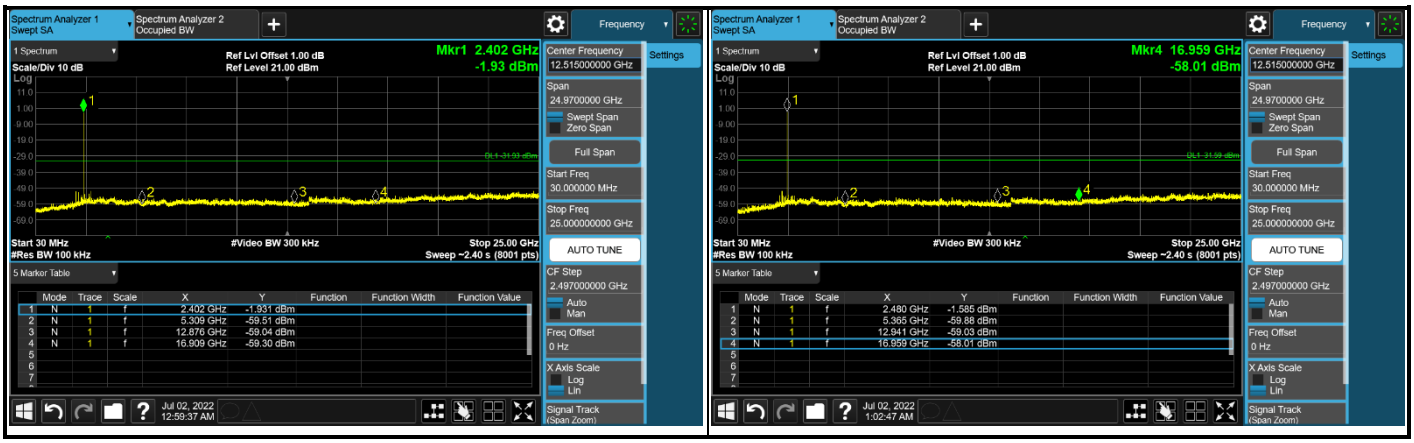


Mode 3 CH39 (2480MHz)



Mode 4 CH00 (2402MHz)

Mode 4 CH39 (2480MHz)

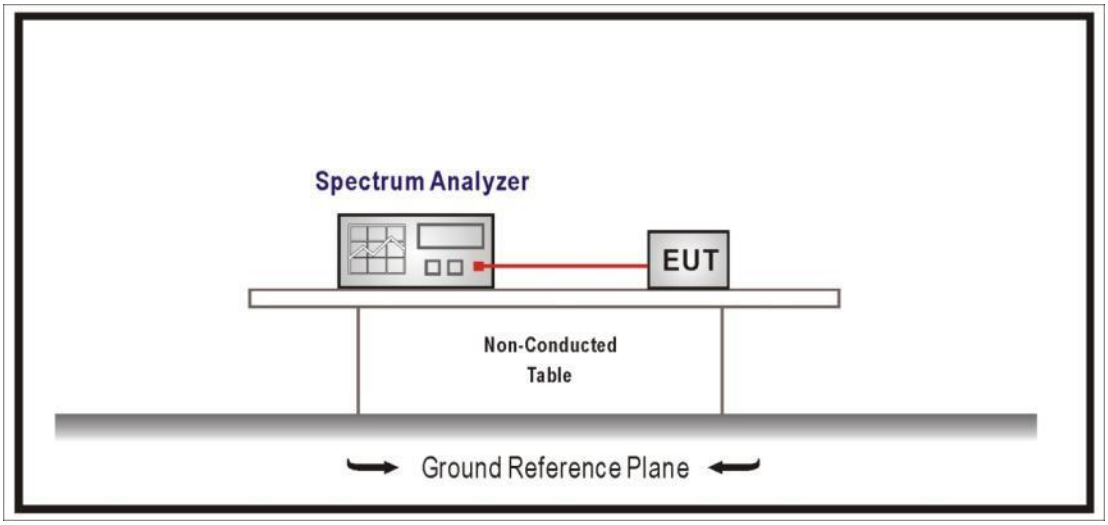

Spectrum Analyzer 1
Swept SA
Spectrum Analyzer 2
Occupied BW
Frequency
1 Spectrum
Ref Lvl Offset 1.00 dB
Ref Level 21.00 dBm
Mkr1 2.402 GHz
-1.93 dBm
Scale/Div 10 dB
Start 30 MHz
#Res BW 100 kHz
#Video BW 300 kHz
Stop 25.00 GHz
Sweep ~2.40 s (8001 pts)
5 Marker Table
Mode Trace Scale X Y Function Function Width Function Value
1 N 1 f 2.402 GHz -1.931 dBm
2 N 1 f 5.309 GHz -59.51 dBm
3 N 1 f 12.876 GHz -59.04 dBm
4 N 1 f 16.909 GHz -59.30 dBm
Jul 02, 2022
12:59:37 AM
Center Frequency
12.515000000 GHz
Span
24.9700000 GHz
Swept Span
Zero Span
Full Span
Start Freq
30.000000 MHz
Stop Freq
25.000000000 GHz
AUTO TUNE
CF Step
2.497000000 GHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
Settings
Spectrum Analyzer 1
Swept SA
Spectrum Analyzer 2
Occupied BW
Frequency
1 Spectrum
Ref Lvl Offset 1.00 dB
Ref Level 21.00 dBm
Mkr4 16.959 GHz
-58.01 dBm
Scale/Div 10 dB
Start 30 MHz
#Res BW 100 kHz
#Video BW 300 kHz
Stop 25.00 GHz
Sweep ~2.40 s (8001 pts)
5 Marker Table
Mode Trace Scale X Y Function Function Width Function Value
1 N 1 f 2.480 GHz -1.585 dBm
2 N 1 f 5.365 GHz -59.88 dBm
3 N 1 f 12.941 GHz -59.03 dBm
4 N 1 f 16.959 GHz -58.01 dBm
Jul 02, 2022
1:02:47 AM
Center Frequency
12.515000000 GHz
Span
24.9700000 GHz
Swept Span
Zero Span
Full Span
Start Freq
30.000000 MHz
Stop Freq
25.000000000 GHz
AUTO TUNE
CF Step
2.497000000 GHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
Settings

4.4 Duty cycle	VERDICT: PASS

4.4.1 Limit

N/A

4.4.2 Test Setup



4.4.3 Test Procedure

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

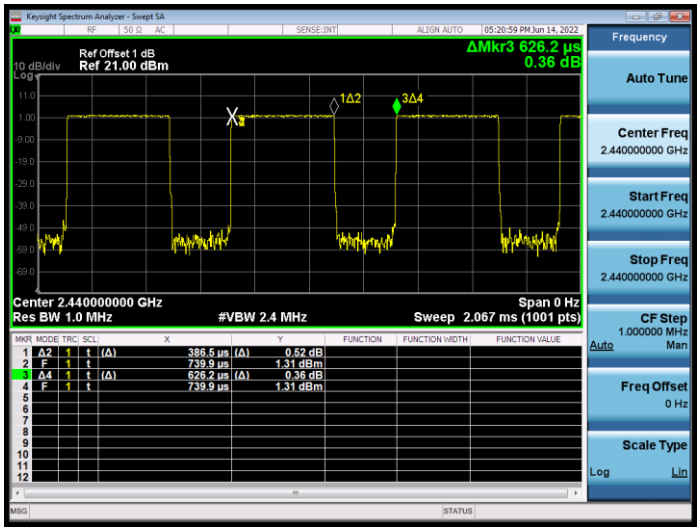
4.4.4 Test Data

Test Mode	Tx On (us)	Tx Off (us)	VBW (kHz)	Tx On + Tx Off (us)	Duty Cycle (%)
Mode 1	386.5	239.7	3	626.2	61.72
Mode 2	200	424	5	624	32.05
Mode 3	1065	810	1	1875	56.80
Mode 4	3090	660	0.4	3750	82.40

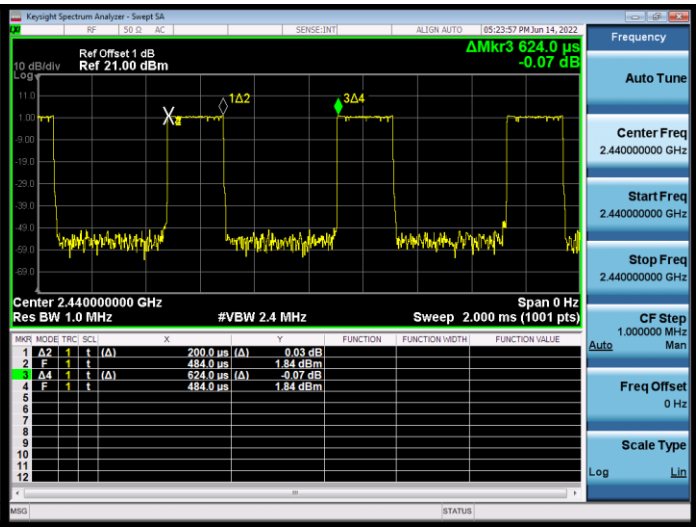
Note 1: T means the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Note 2: According to KDB 558074, when test for Radiated Emission Band Edge and Radiated Emission, for average detector set: VBW ⩾ 1/T will be used.

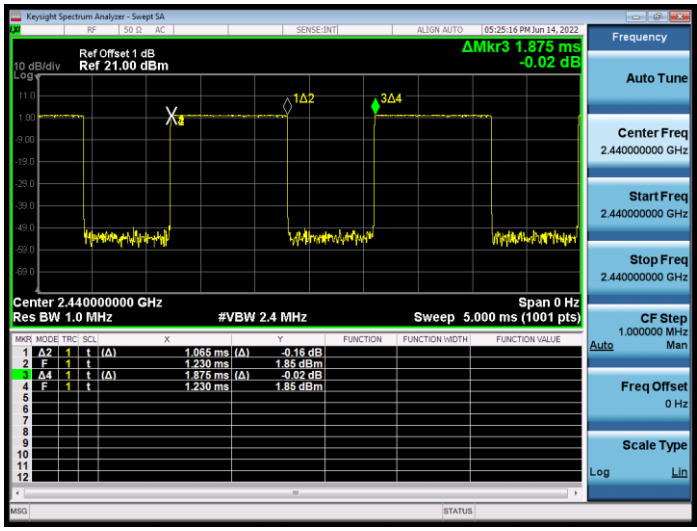
Mode 1 CH19 2440MHz



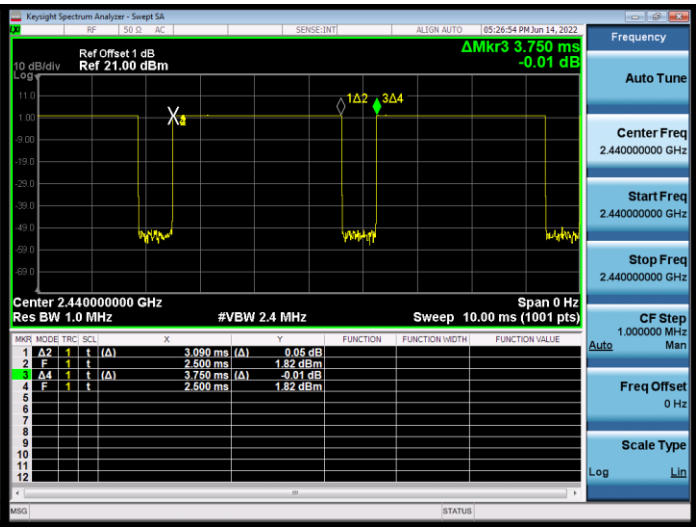
Mode 2 CH19 2440MHz



Mode 3 CH19 2440MHz



Mode 4 CH19 2440MHz

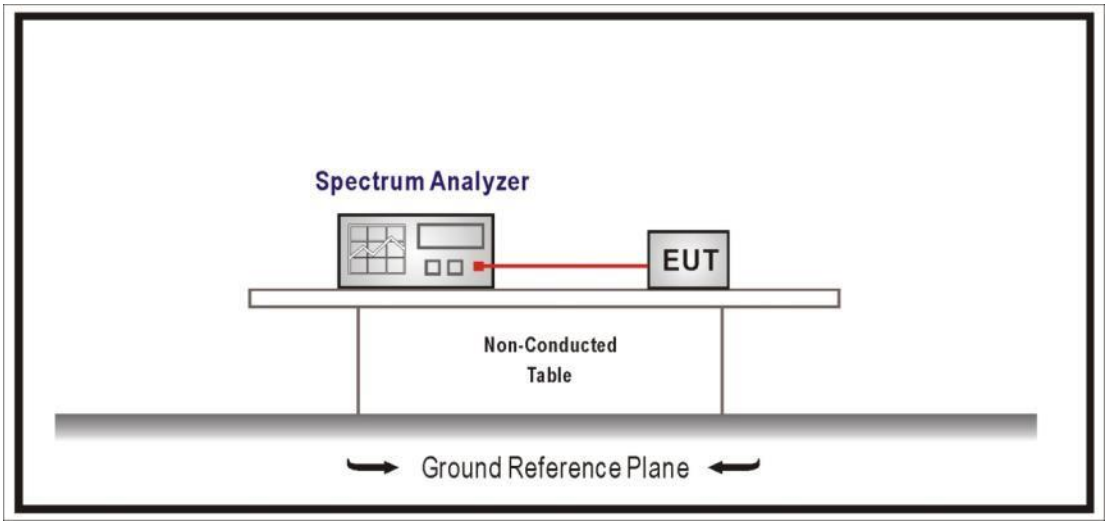


4.5 Band Edge — VERDICT: PASS

4.5.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.247(d) ,15.209			
Frequency bands (MHz)	Detector	Limit (dB μ V/m)	RBW (MHz)	Distance (m)
2310-2390 2483.5-2500	PK	74	1	3
	AV	54	1	3
Note: The field strength of emissions appearing within these frequency bands shall not exceed the limits.				

4.5.2 Test Setup

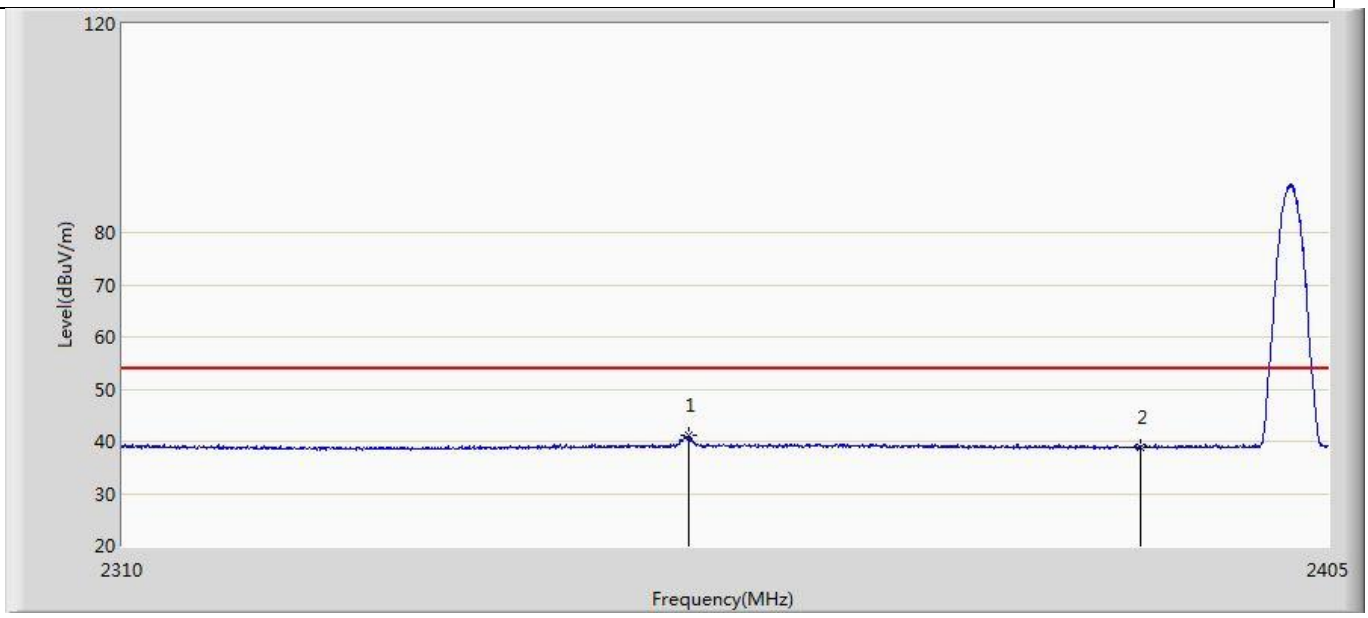


4.5.3 Test Procedure

	References Rule		Chapter	Description
☒	ANSI C63.10		6.10	Band-edge testing
	☒ ANSI C63.10		6.10.5	Restricted-band band-edge measurements
	☐ ANSI C63.10		6.10.6	Marker-delta method
☒	ANSI C63.10		11.12	Emissions in restricted frequency bands
	☒ ANSI C63.10		11.12.2	Antenna-port conducted measurements
		☐ ANSI C63.10	11.12.2.3	Quasi-peak measurement procedure
		☒ ANSI C63.10	11.12.2.4	Peak power measurement procedure
		☒ ANSI C63.10	11.12.2.5	Average power measurement procedures

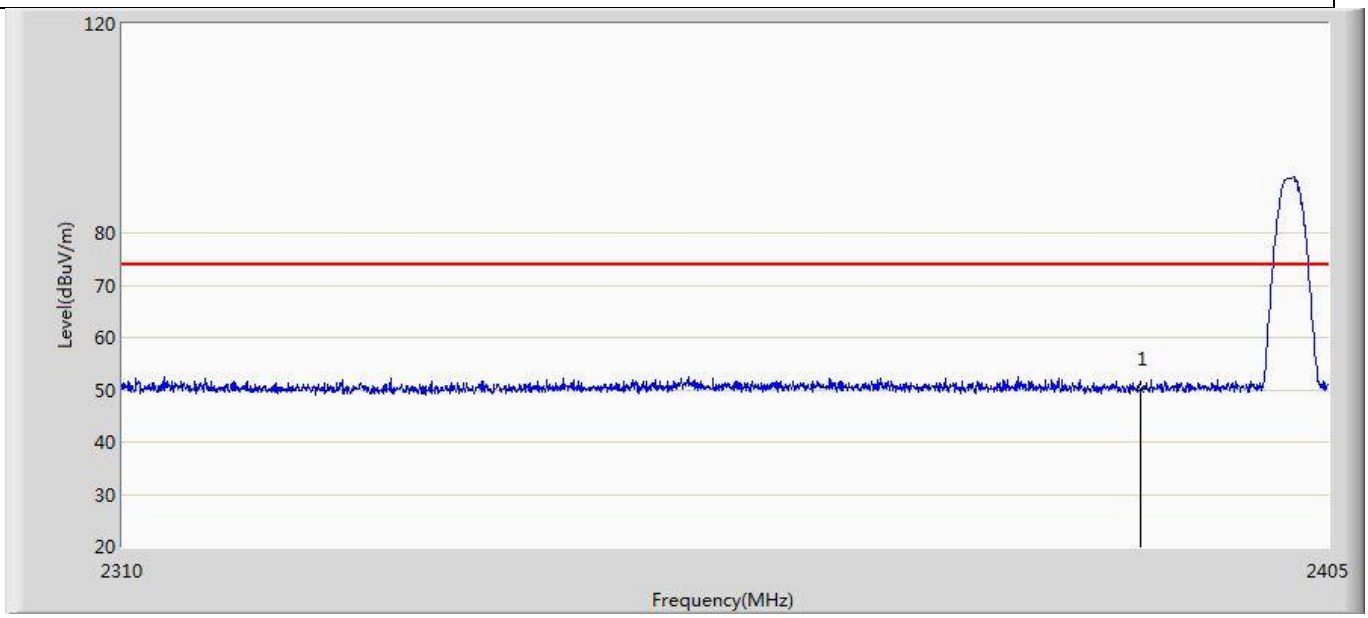
4.5.4 Test Data

Profile: 2250805R	Page No.: 1
Engineer: YuLiu	
Site: AC5	Time: 2022/06/12 - 22:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2402MHz by ble1M	



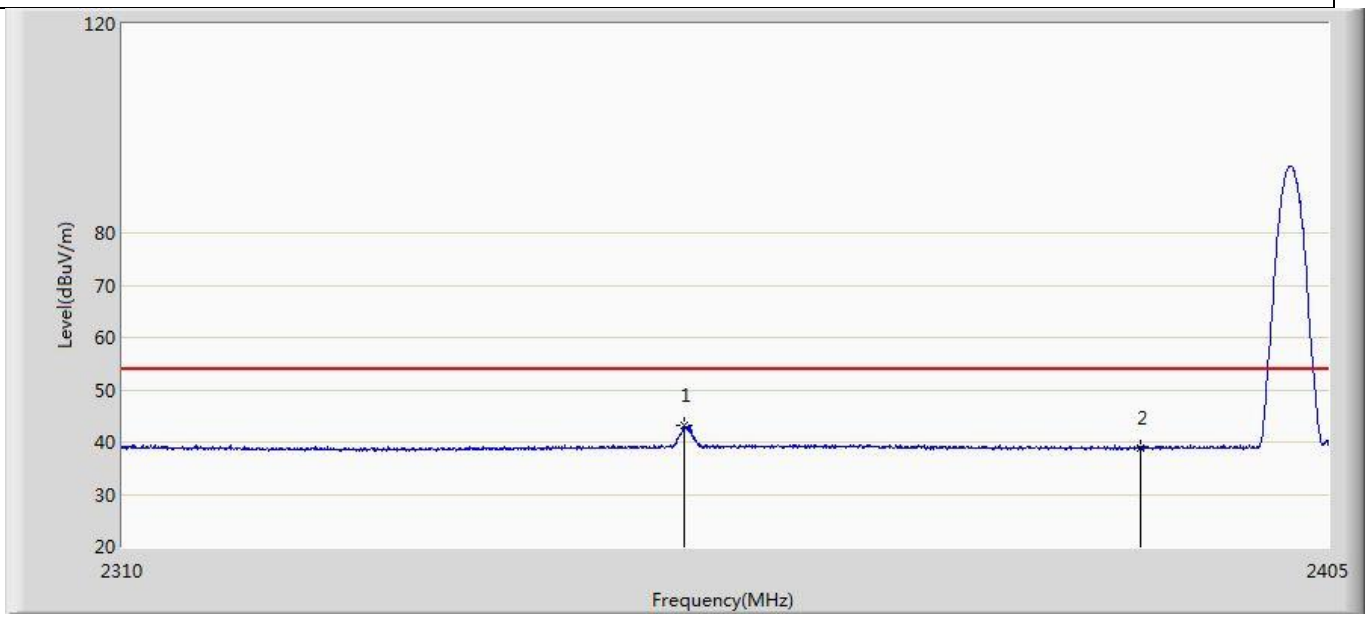
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2354.222	41.075	5.145	-12.925	54.000	35.929	AV
2		2390.000	38.770	2.672	-15.230	54.000	36.098	AV

Profile: 2250805R	Page No.: 2
Engineer: YuLiu	
Site: AC5	Time: 2022/06/12 - 23:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2402MHz by ble1M	



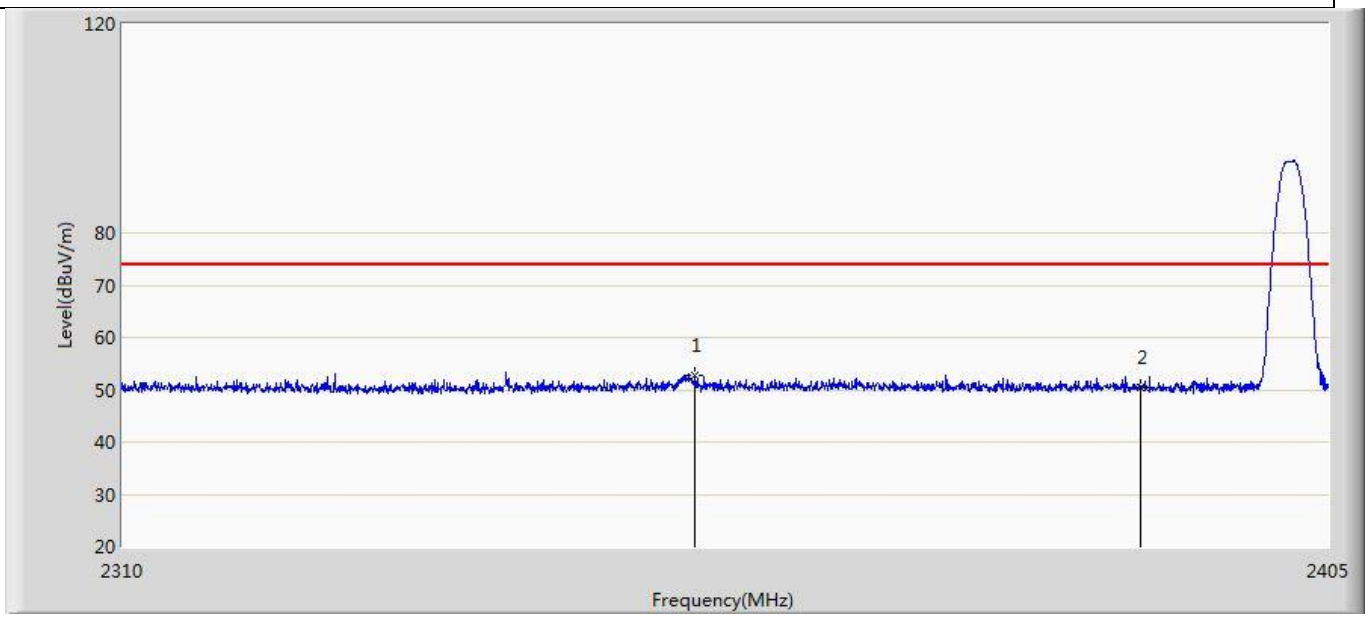
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	50.112	14.014	-23.888	74.000	36.098	PK

Profile: 2250805R	Page No.: 3
Engineer: YuLiu	
Site: AC5	Time: 2022/06/12 - 23:03
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2402MHz by ble1M	



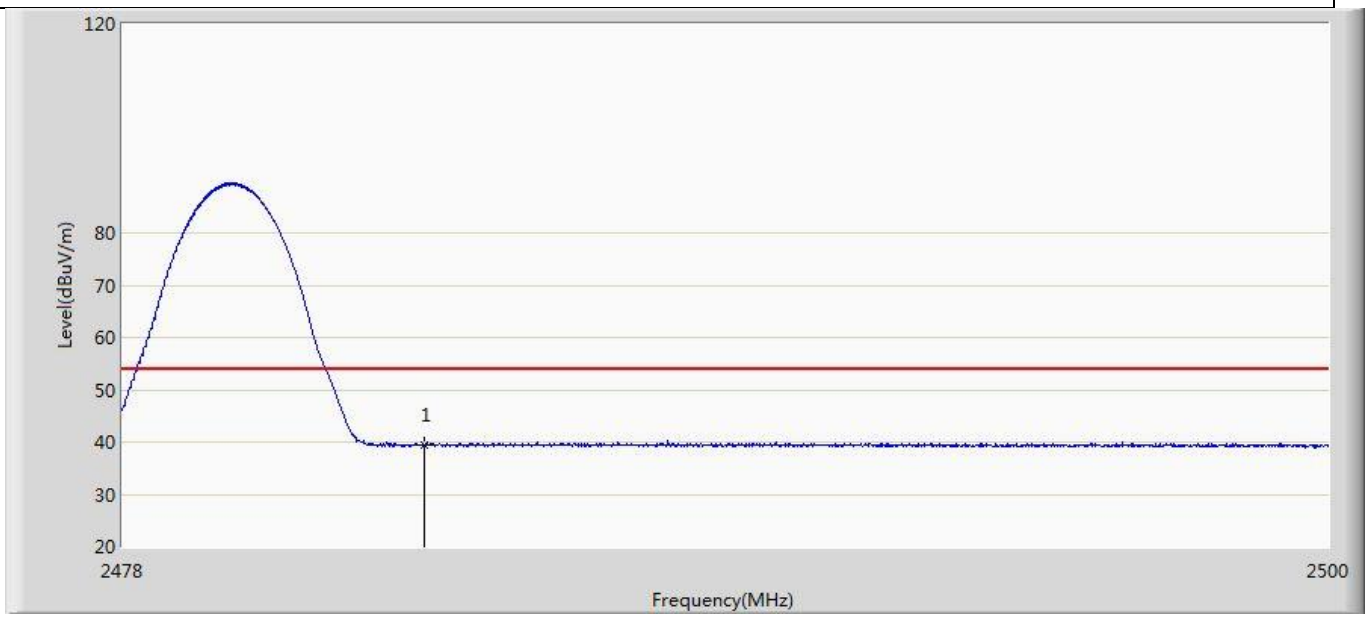
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2353.795	43.192	7.261	-10.808	54.000	35.931	AV
2		2390.000	38.825	2.727	-15.175	54.000	36.098	AV

Profile: 2250805R	Page No.: 4
Engineer: YuLiu	
Site: AC5	Time: 2022/06/12 - 23:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2402MHz by ble1M	



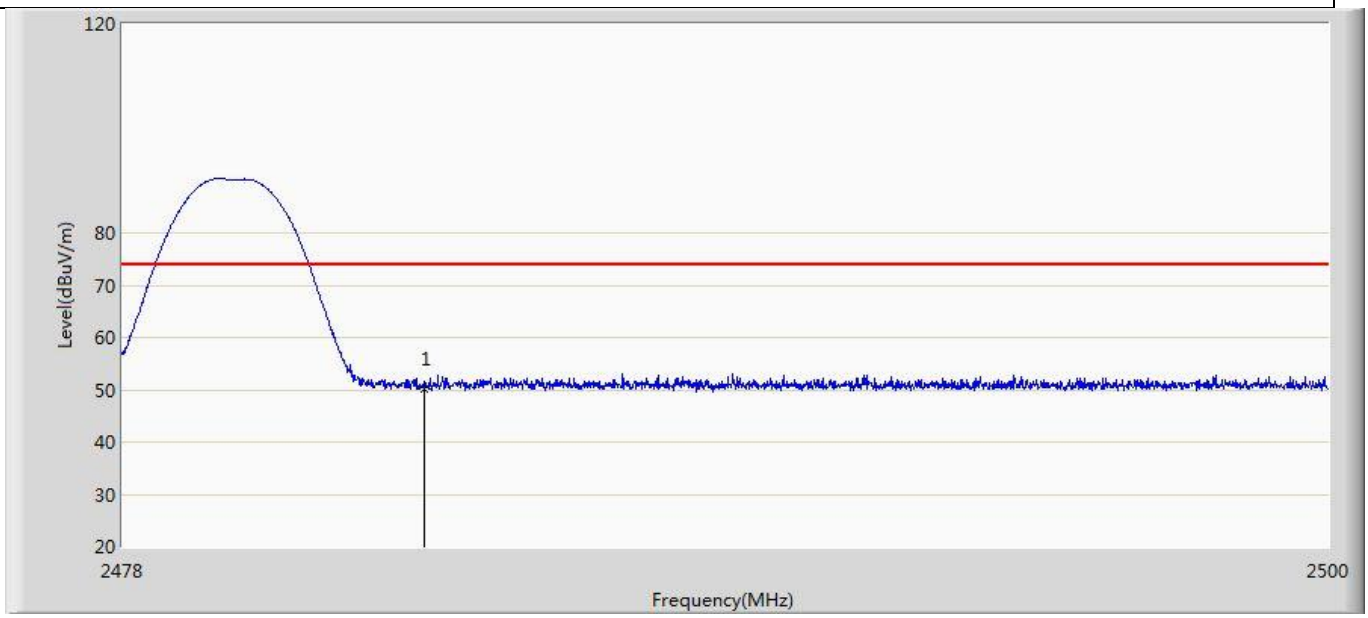
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2354.650	52.856	16.928	-21.144	74.000	35.928	PK
2		2390.000	50.453	14.355	-23.547	74.000	36.098	PK

Profile: 2250805R	Page No.: 5
Engineer: YuLiu	
Site: AC5	Time: 2022/06/12 - 20:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2480MHz by ble1M	



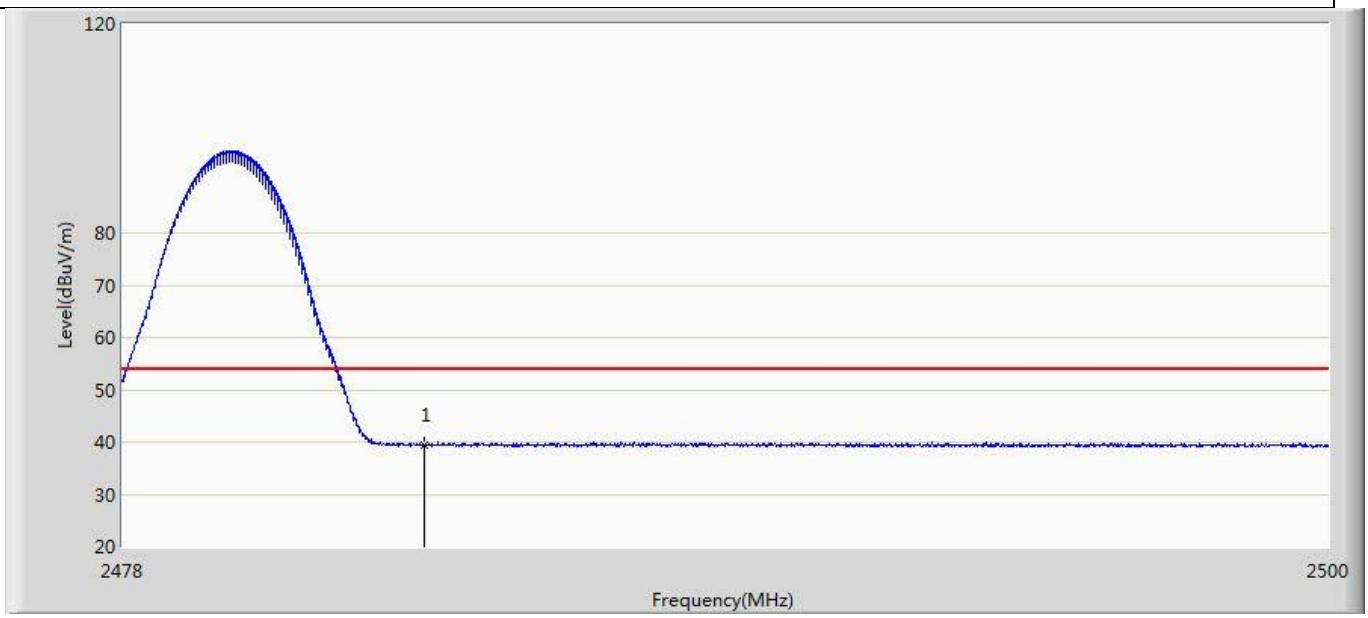
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	39.276	3.055	-14.724	54.000	36.220	AV

Profile: 2250805R	Page No.: 6
Engineer: YuLiu	
Site: AC5	Time: 2022/06/12 - 20:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2480MHz by ble1M	



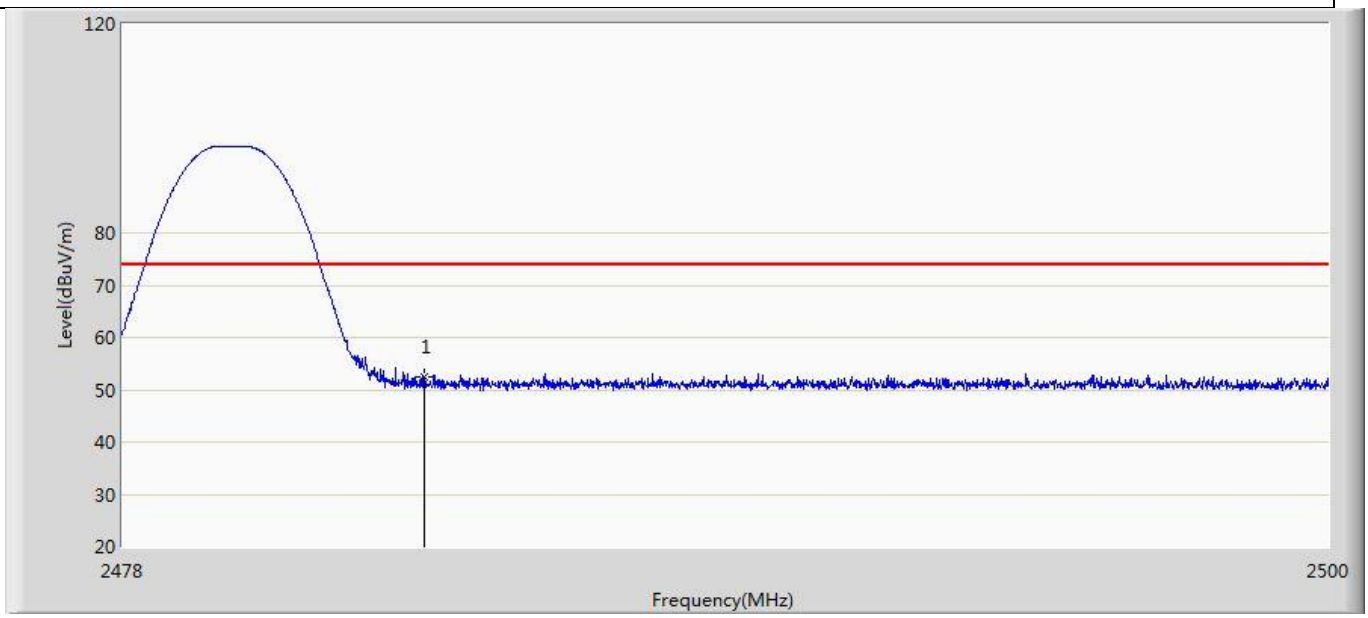
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	50.138	13.917	-23.862	74.000	36.220	PK

Profile: 2250805R	Page No.: 7
Engineer: YuLiu	
Site: AC5	Time: 2022/06/12 - 20:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2480MHz by ble1M	



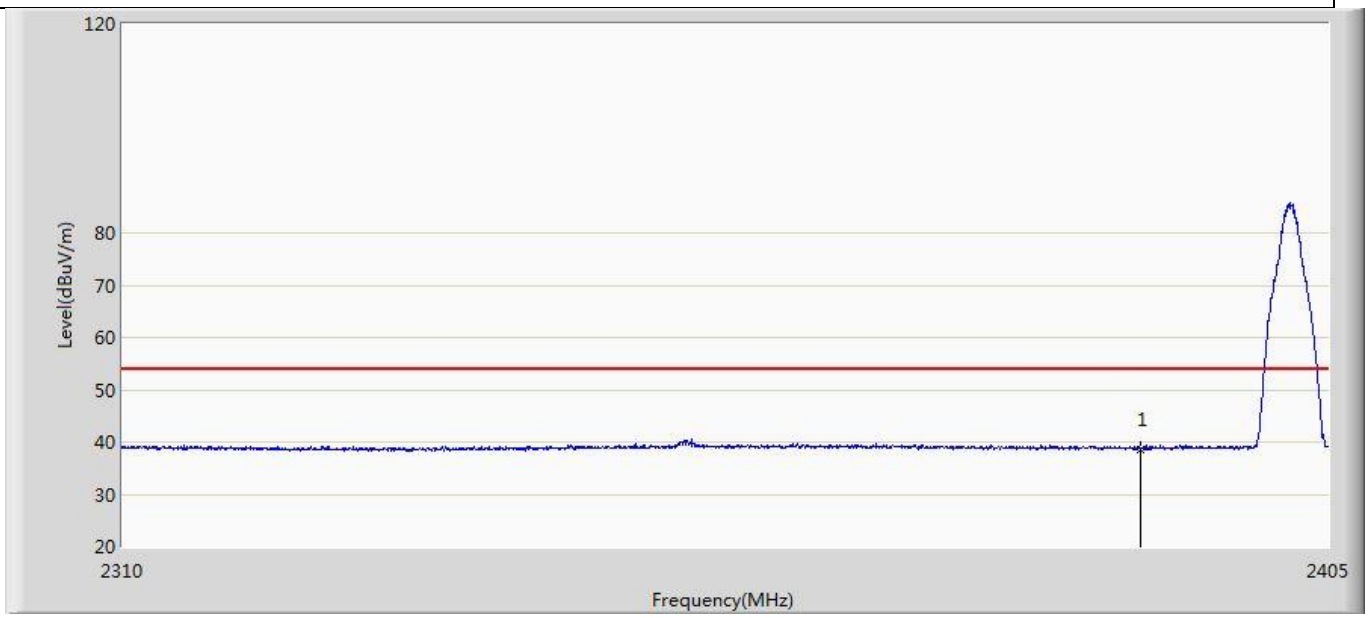
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	39.543	3.322	-14.457	54.000	36.220	AV

Profile: 2250805R	Page No.: 8
Engineer: YuLiu	
Site: AC5	Time: 2022/06/12 - 20:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2480MHz by ble1M	



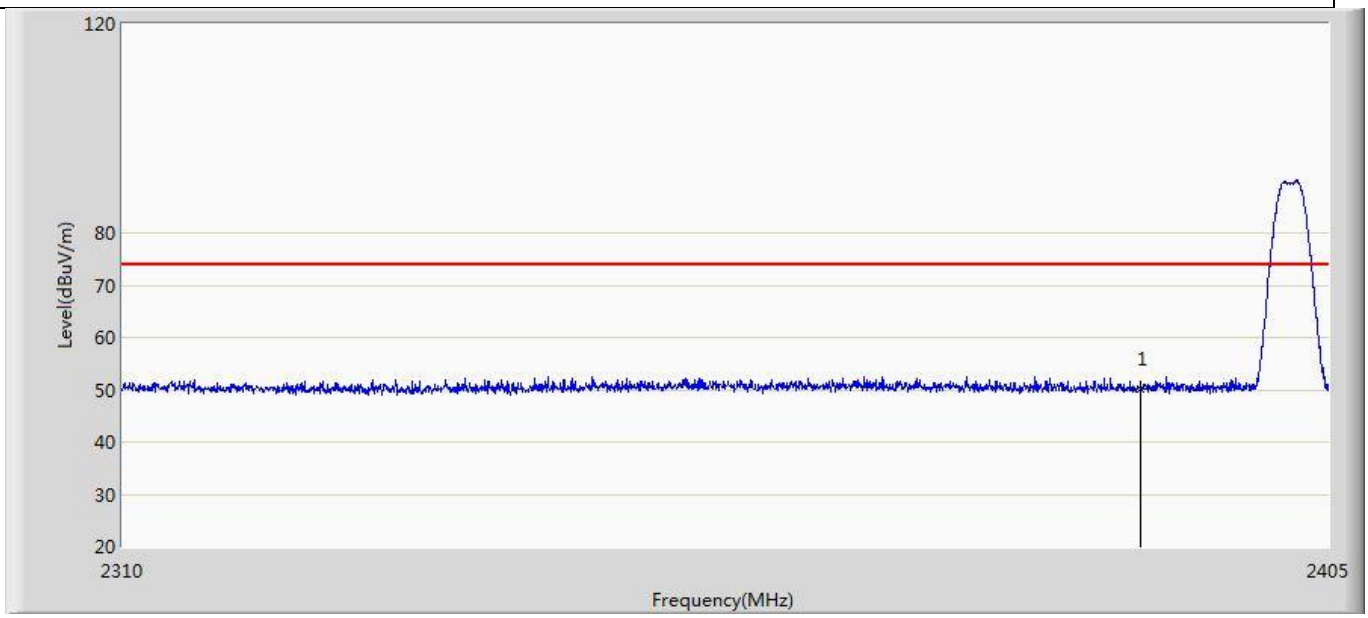
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	52.498	16.277	-21.502	74.000	36.220	PK

Profile: 2250805R	Page No.: 9
Engineer: YuLiu	
Site: AC5	Time: 2022/06/12 - 21:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2402MHz by ble2M	



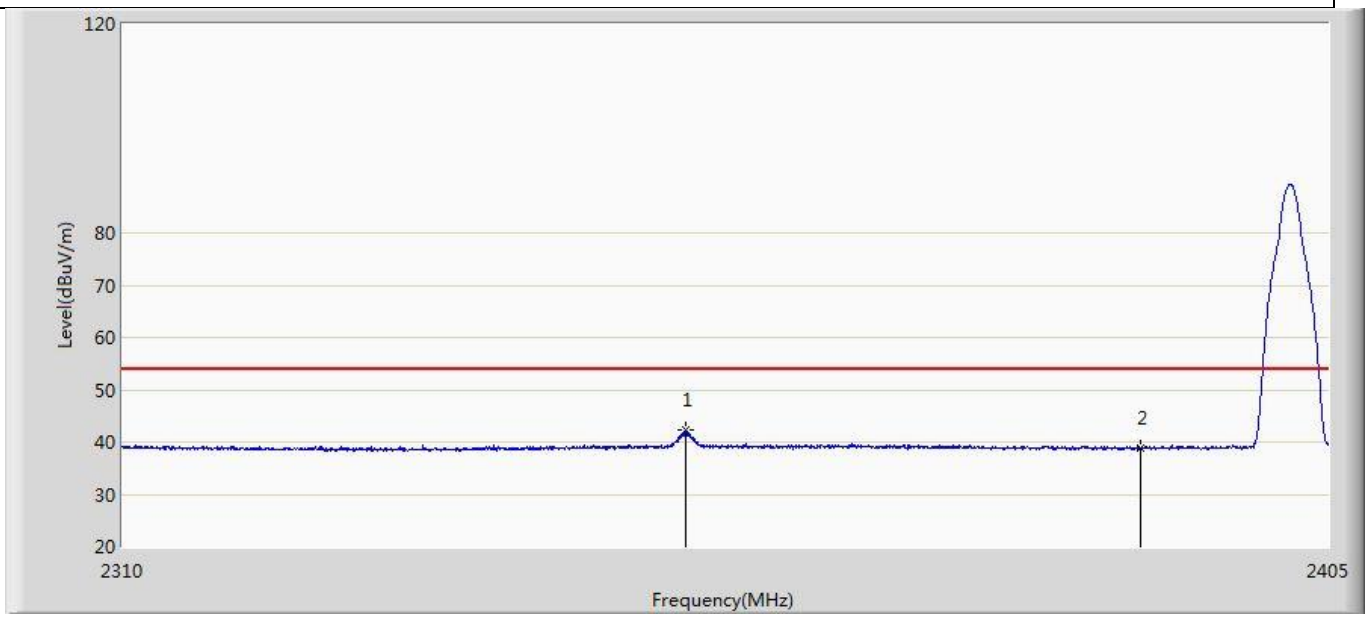
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	38.641	2.543	-15.359	54.000	36.098	AV

Profile: 2250805R	Page No.: 10
Engineer: YuLiu	
Site: AC5	Time: 2022/06/12 - 21:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2402MHz by ble2M	



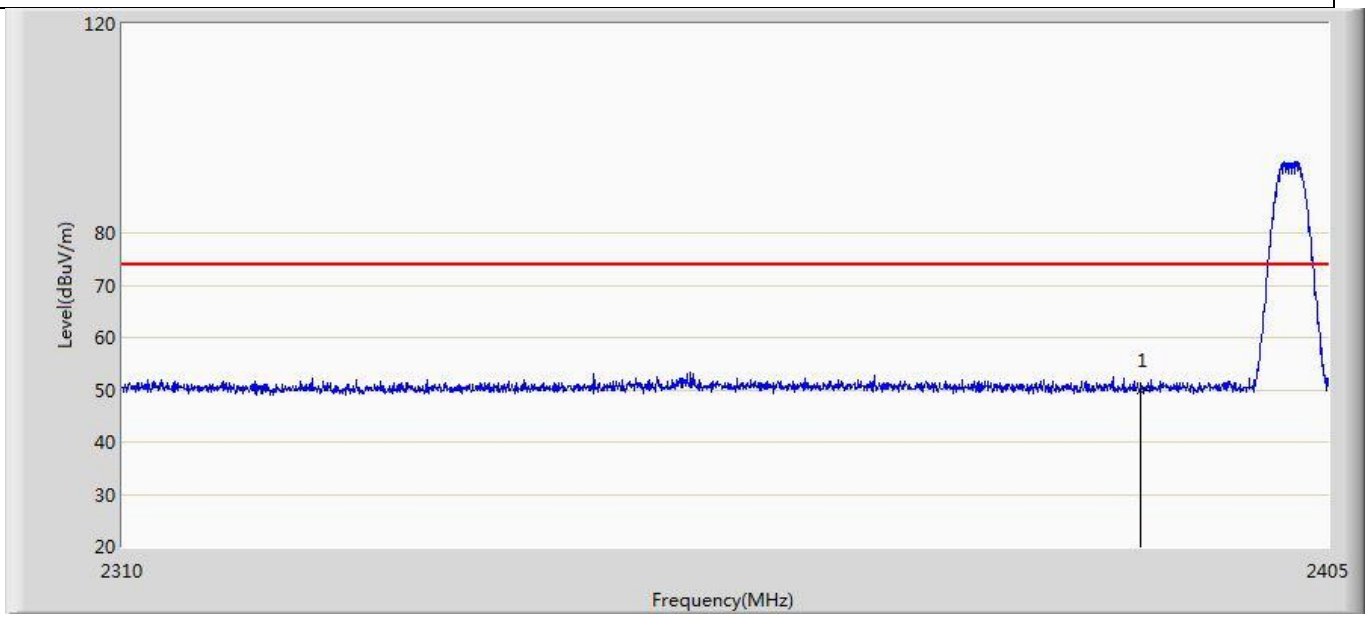
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	50.146	14.048	-23.854	74.000	36.098	PK

Profile: 2250805R	Page No.: 11
Engineer: YuLiu	
Site: AC5	Time: 2022/06/12 - 21:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2402MHz by ble2M	



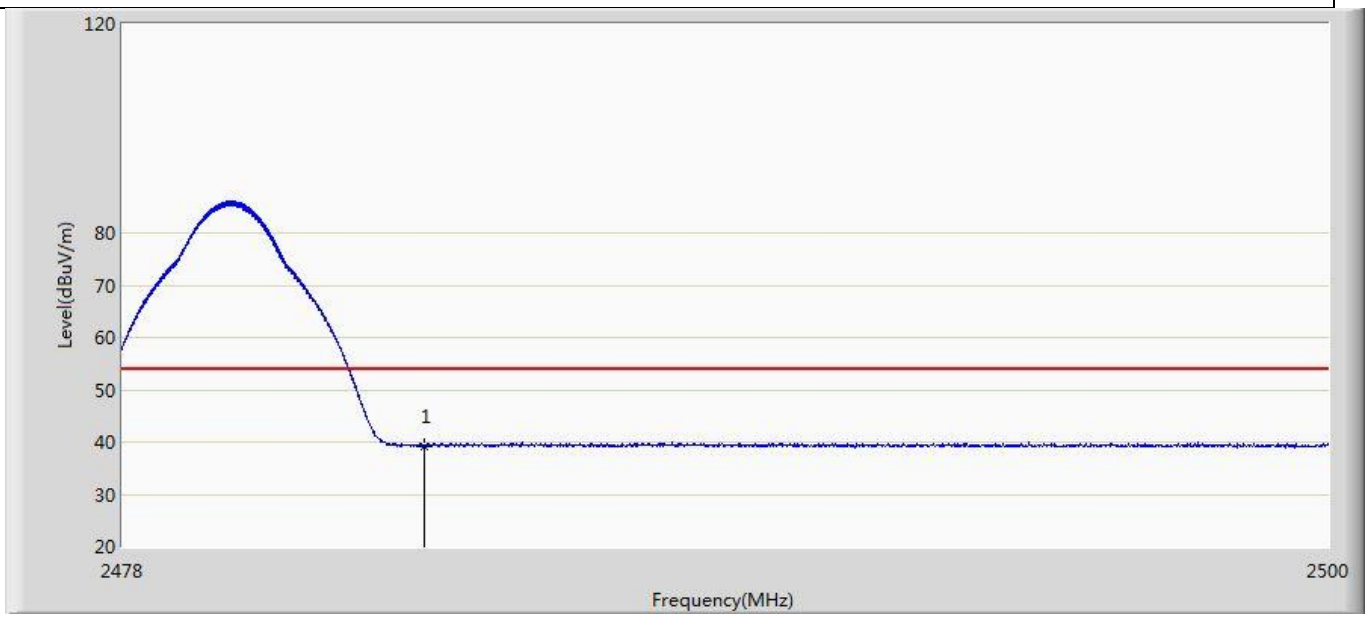
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2353.937	42.363	6.432	-11.637	54.000	35.930	AV
2		2390.000	38.755	2.657	-15.245	54.000	36.098	AV

Profile: 2250805R	Page No.: 12
Engineer: YuLiu	
Site: AC5	Time: 2022/06/12 - 21:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2402MHz by ble2M	



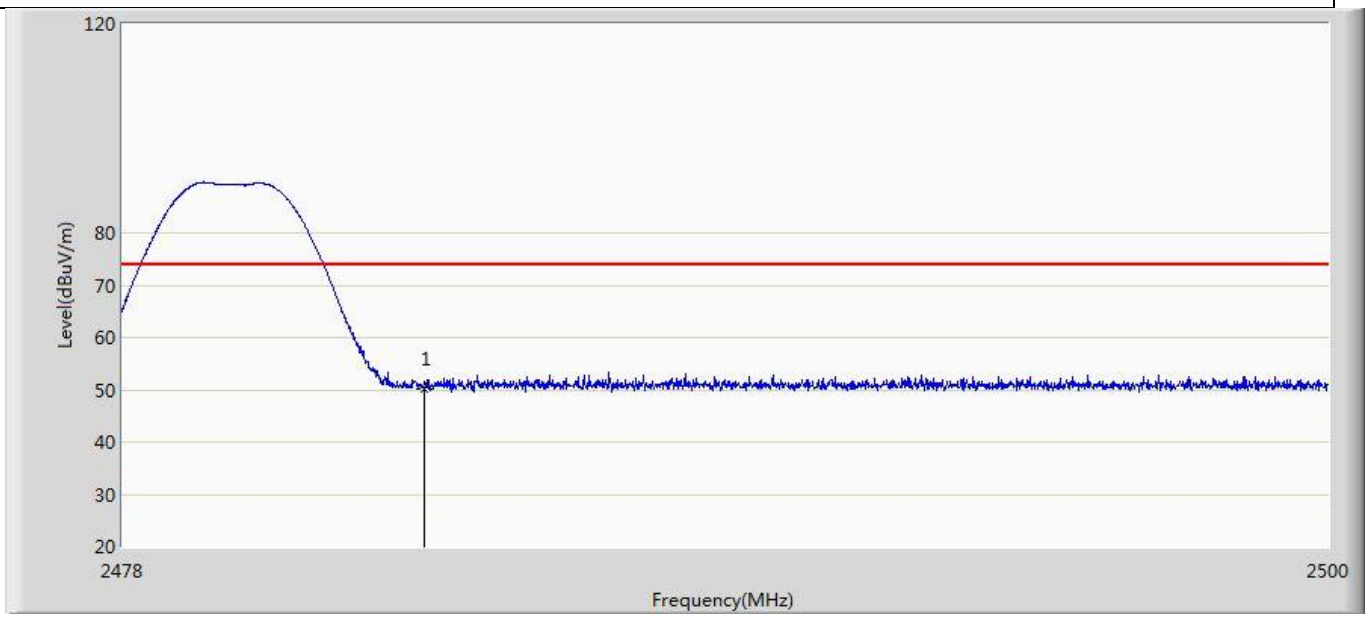
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	49.797	13.699	-24.203	74.000	36.098	PK

Profile: 2250805R	Page No.: 13
Engineer: YuLiu	
Site: AC5	Time: 2022/06/12 - 21:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2480MHz by ble2M	



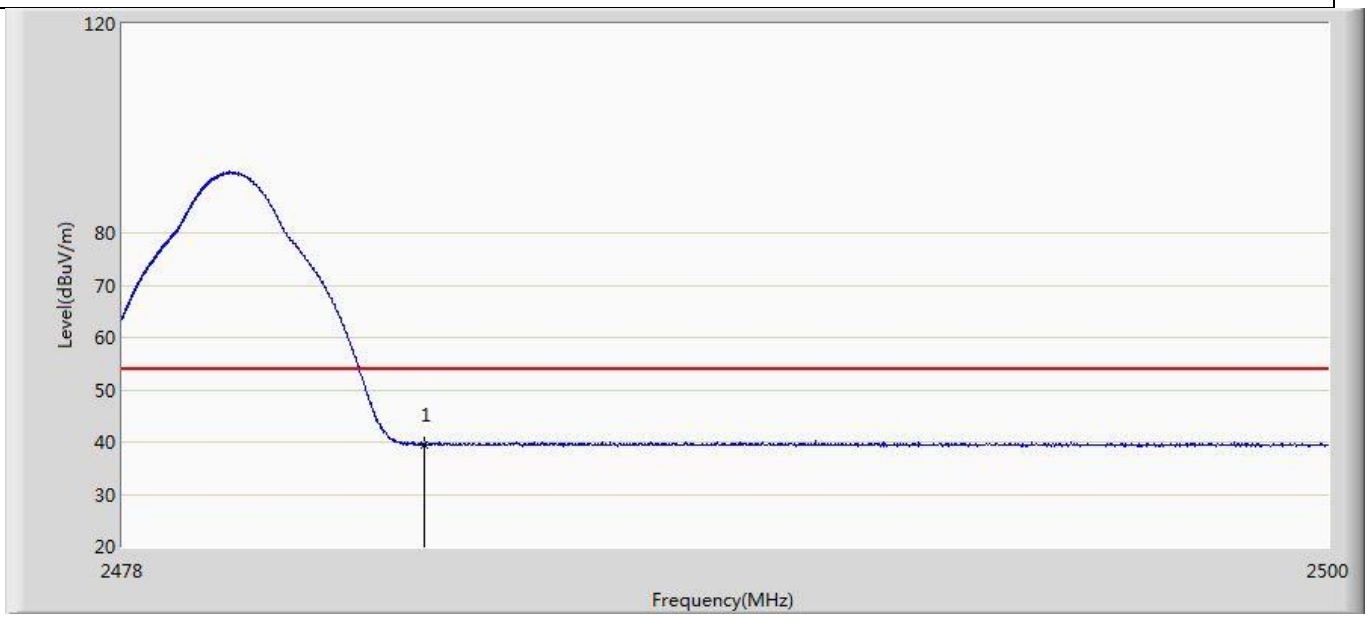
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	39.263	3.042	-14.737	54.000	36.220	AV

Profile: 2250805R	Page No.: 14
Engineer: YuLiu	
Site: AC5	Time: 2022/06/12 - 21:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2480MHz by ble2M	



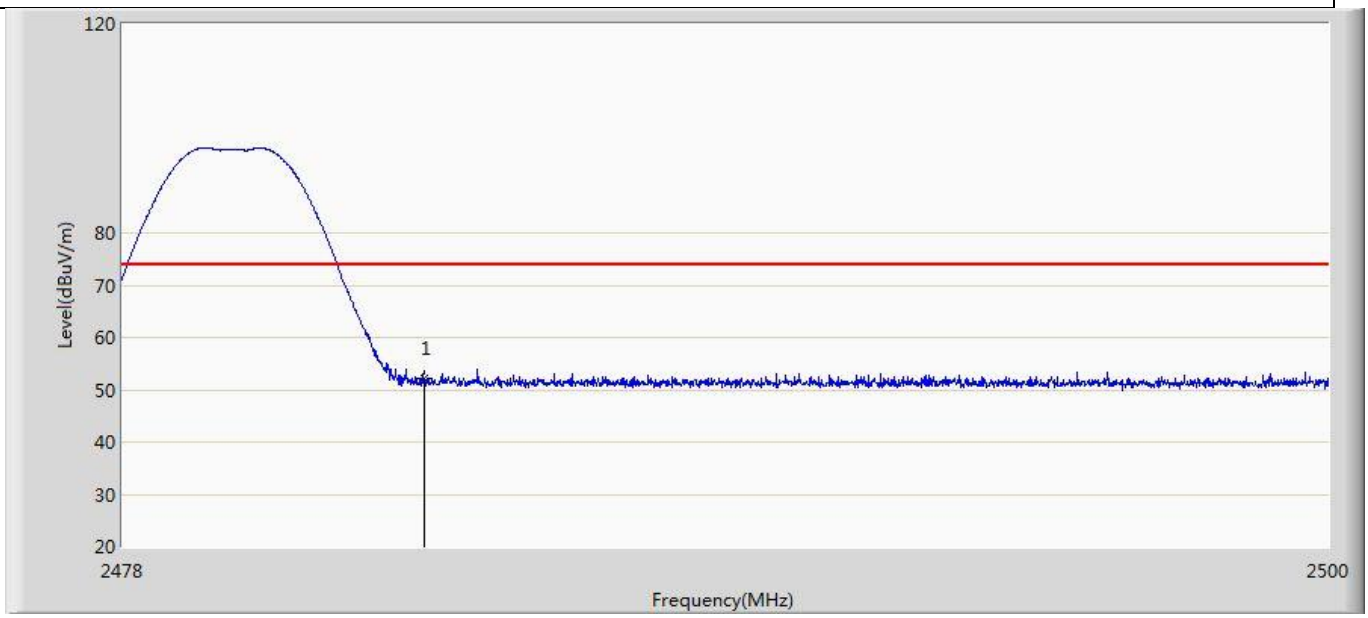
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	50.215	13.994	-23.785	74.000	36.220	PK

Profile: 2250805R	Page No.: 15
Engineer: YuLiu	
Site: AC5	Time: 2022/06/12 - 21:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2480MHz by ble2M	



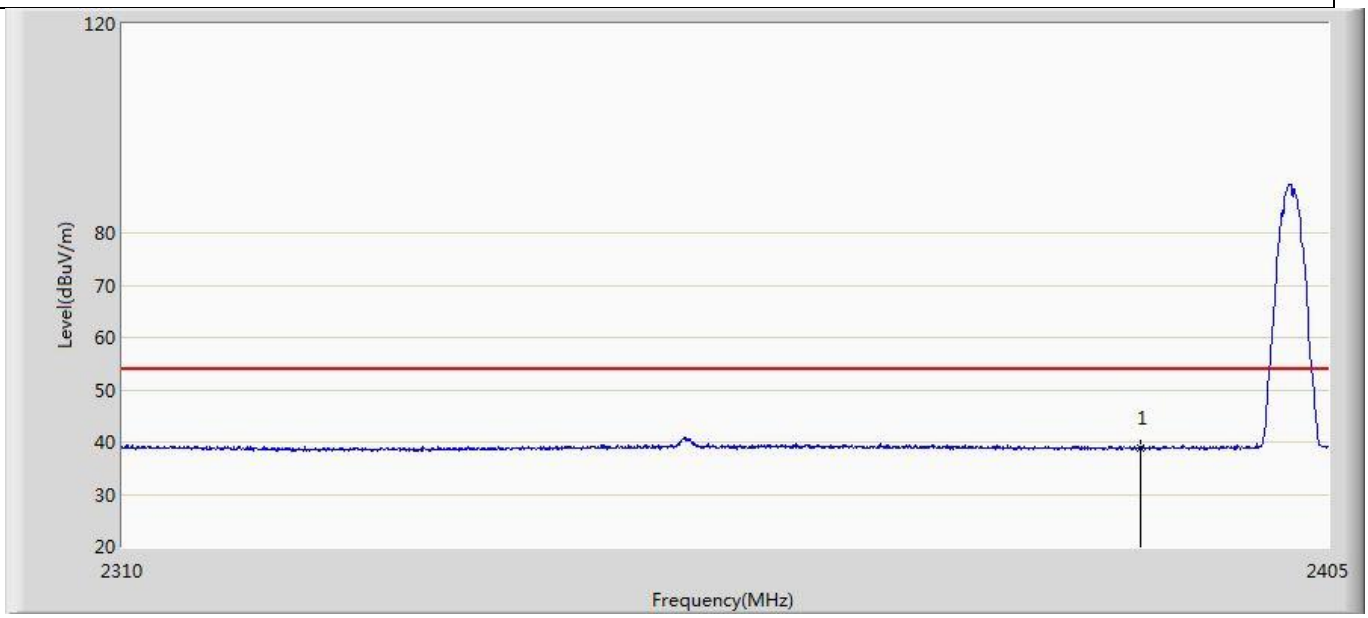
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	39.451	3.230	-14.549	54.000	36.220	AV

Profile: 2250805R	Page No.: 16
Engineer: YuLiu	
Site: AC5	Time: 2022/06/12 - 21:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2480MHz by ble2M	



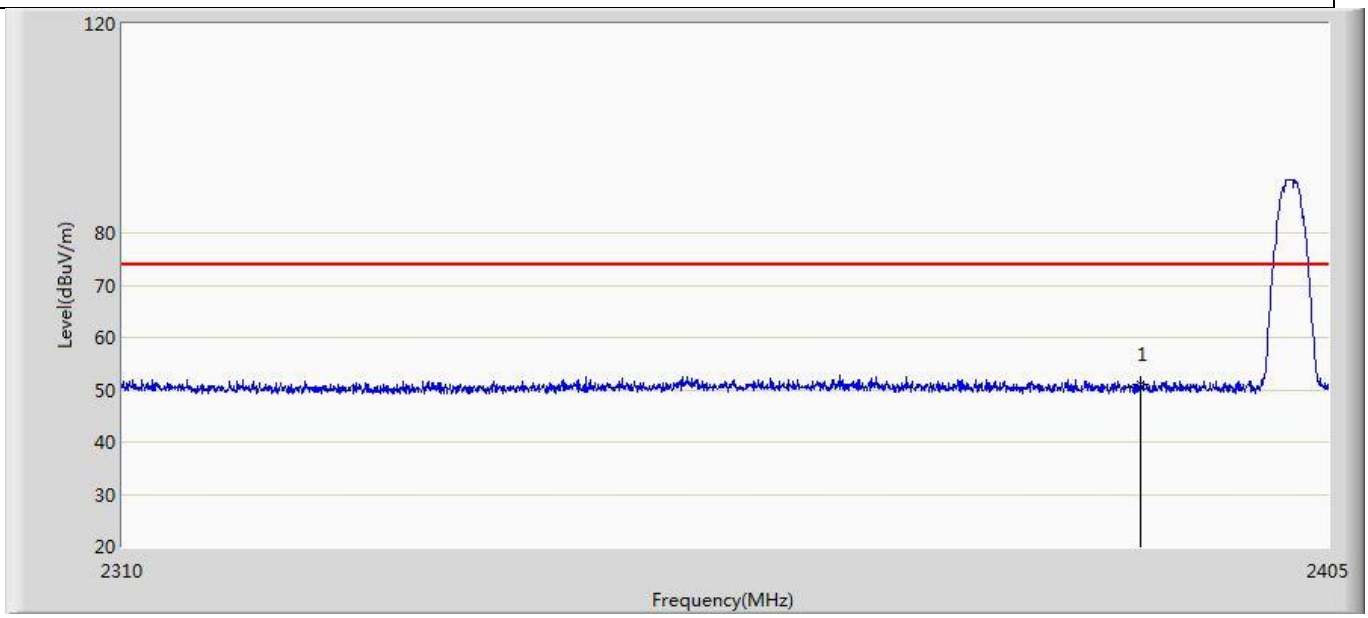
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	52.224	16.003	-21.776	74.000	36.220	PK

Profile: 2250805R	Page No.: 17
Engineer: YuLiu	
Site: AC5	Time: 2022/06/12 - 02:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2402MHz by ble Coded2	



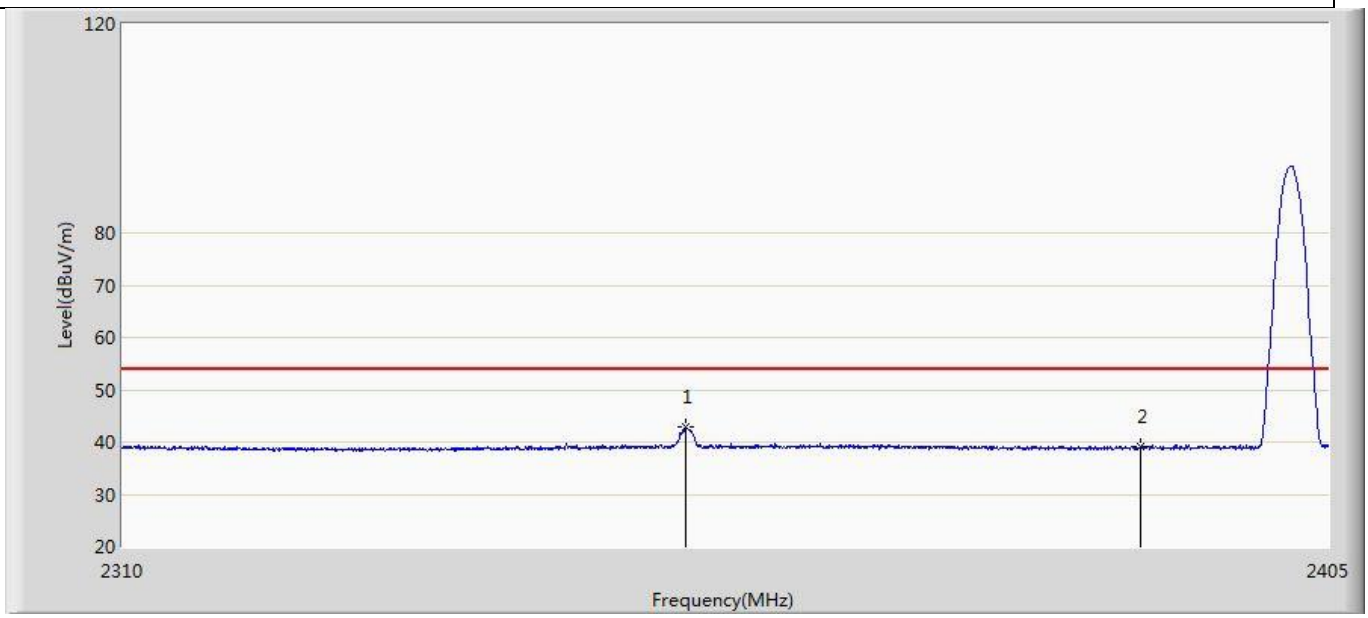
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	38.876	2.778	-15.124	54.000	36.098	AV

Profile: 2250805R	Page No.: 18
Engineer: YuLiu	
Site: AC5	Time: 2022/06/12 - 02:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2402MHz by ble Coded2	



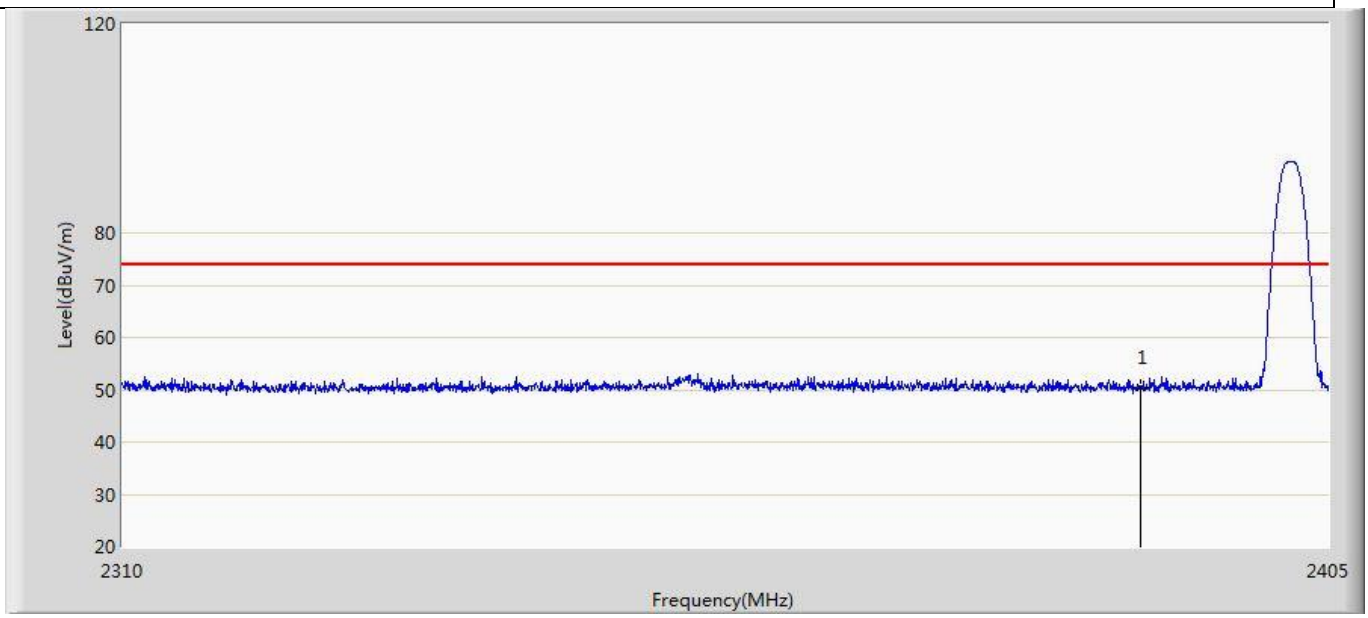
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	51.153	15.055	-22.847	74.000	36.098	PK

Profile: 2250805R	Page No.: 19
Engineer: YuLiu	
Site: AC5	Time: 2022/06/12 - 02:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2402MHz by ble Coded2	



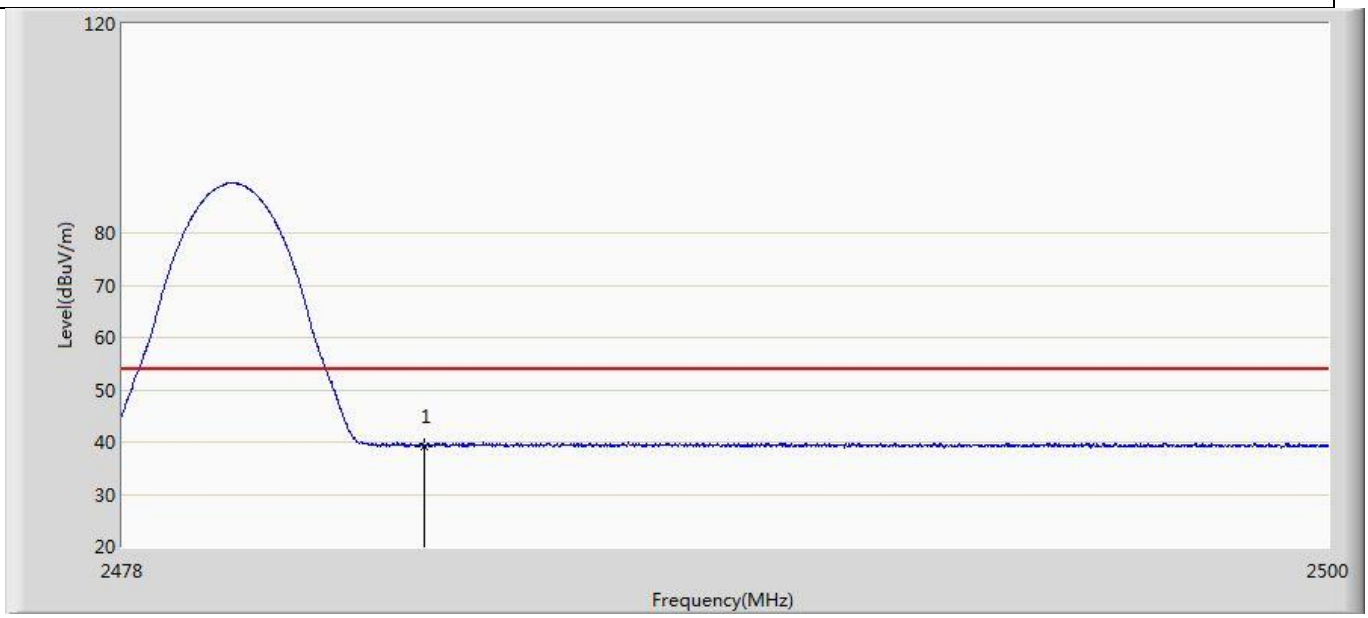
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2353.890	42.952	7.021	-11.048	54.000	35.931	AV
2		2390.000	38.994	2.896	-15.006	54.000	36.098	AV

Profile: 2250805R	Page No.: 20
Engineer: YuLiu	
Site: AC5	Time: 2022/06/12 - 02:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2402MHz by ble Coded2	



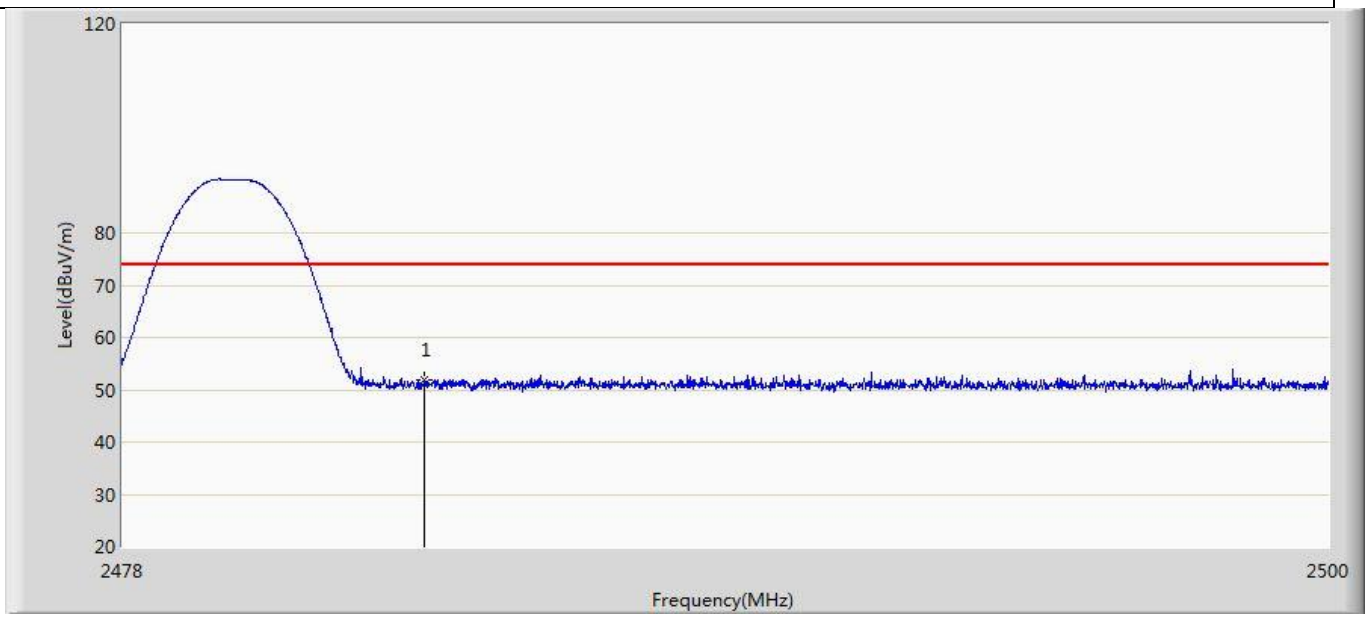
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	50.535	14.437	-23.465	74.000	36.098	PK

Profile: 2250805R	Page No.: 21
Engineer: YuLiu	
Site: AC5	Time: 2022/06/12 - 02:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2480MHz by ble Coded2	



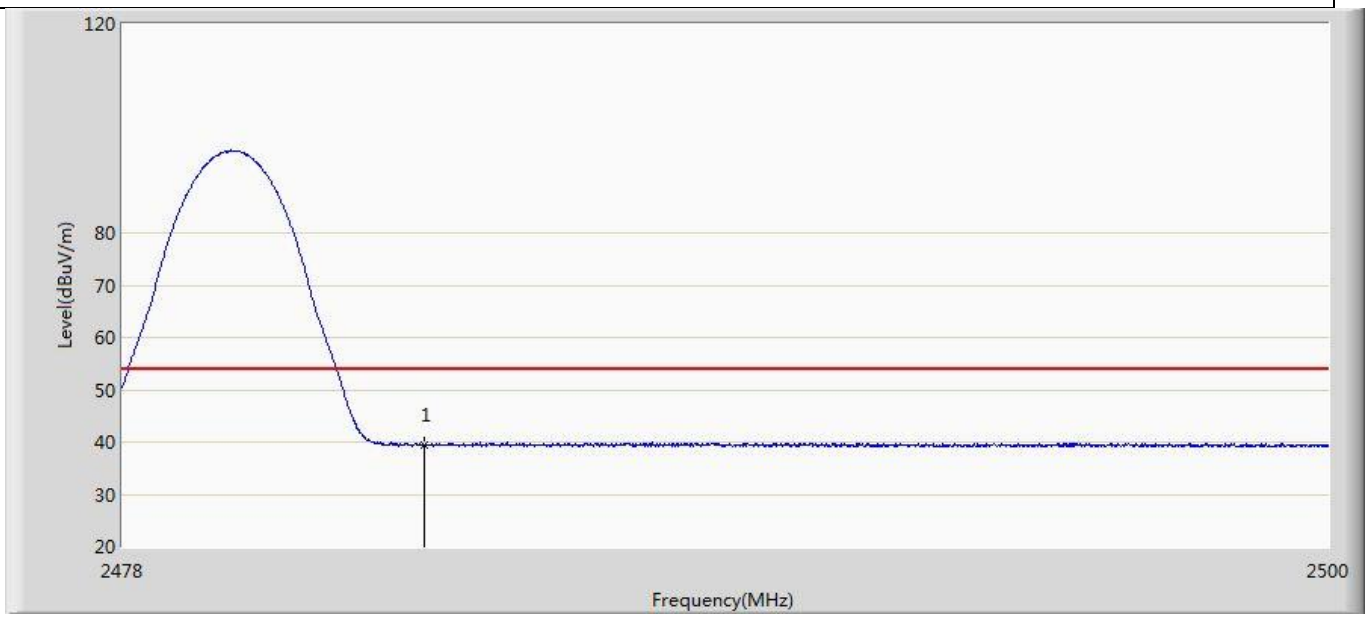
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	39.172	2.951	-14.828	54.000	36.220	AV

Profile: 2250805R	Page No.: 22
Engineer: YuLiu	
Site: AC5	Time: 2022/06/12 - 02:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2480MHz by ble Coded2	



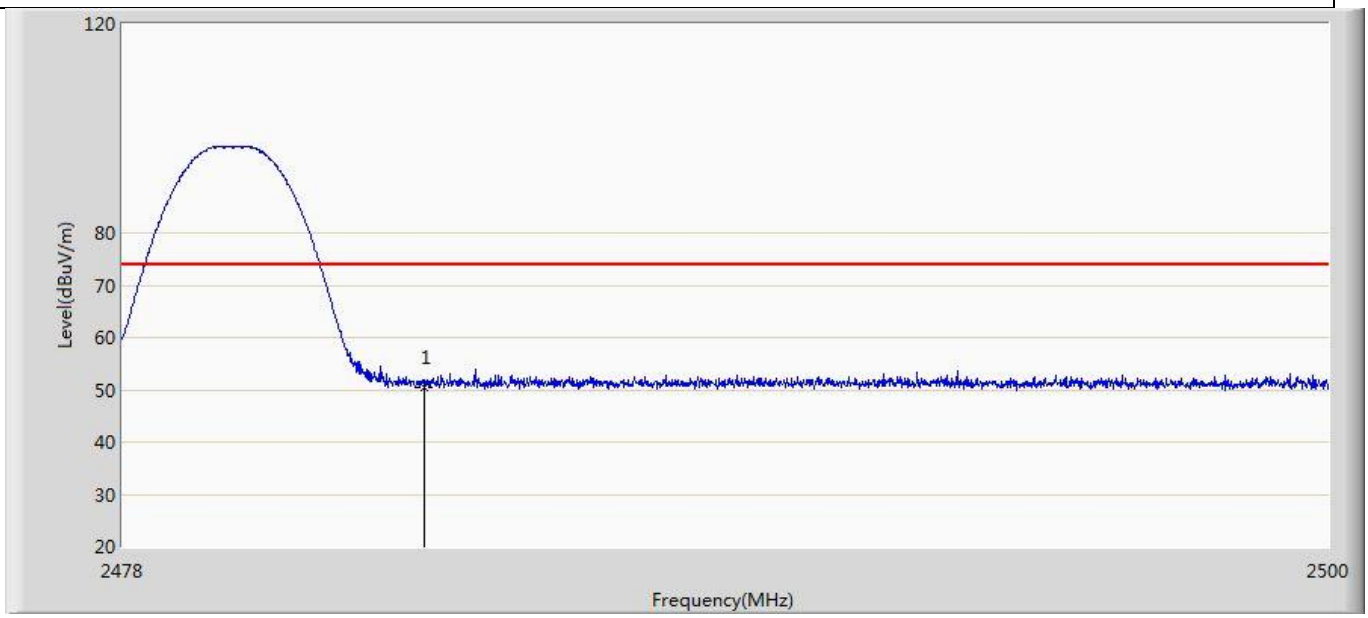
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	52.020	15.799	-21.980	74.000	36.220	PK

Profile: 2250805R	Page No.: 23
Engineer: YuLiu	
Site: AC5	Time: 2022/06/12 - 02:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2480MHz by ble Coded2	



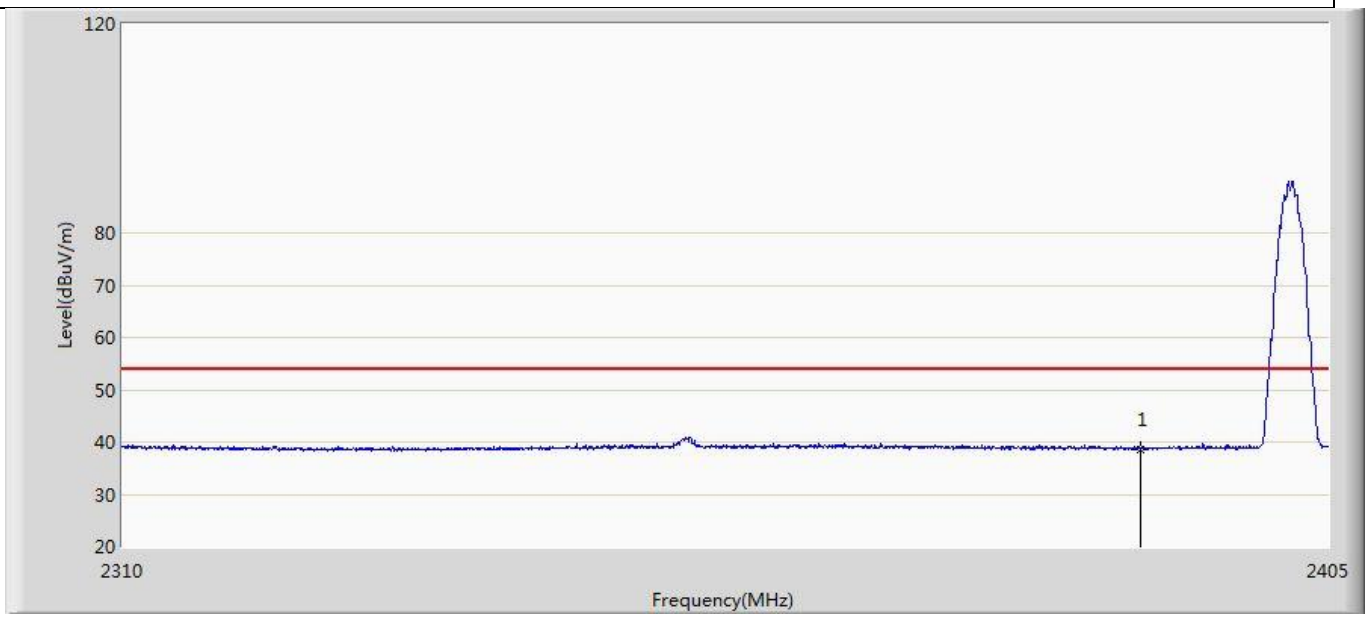
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	39.456	3.235	-14.544	54.000	36.220	AV

Profile: 2250805R	Page No.: 24
Engineer: YuLiu	
Site: AC5	Time: 2022/06/12 - 02:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2480MHz by ble Coded2	



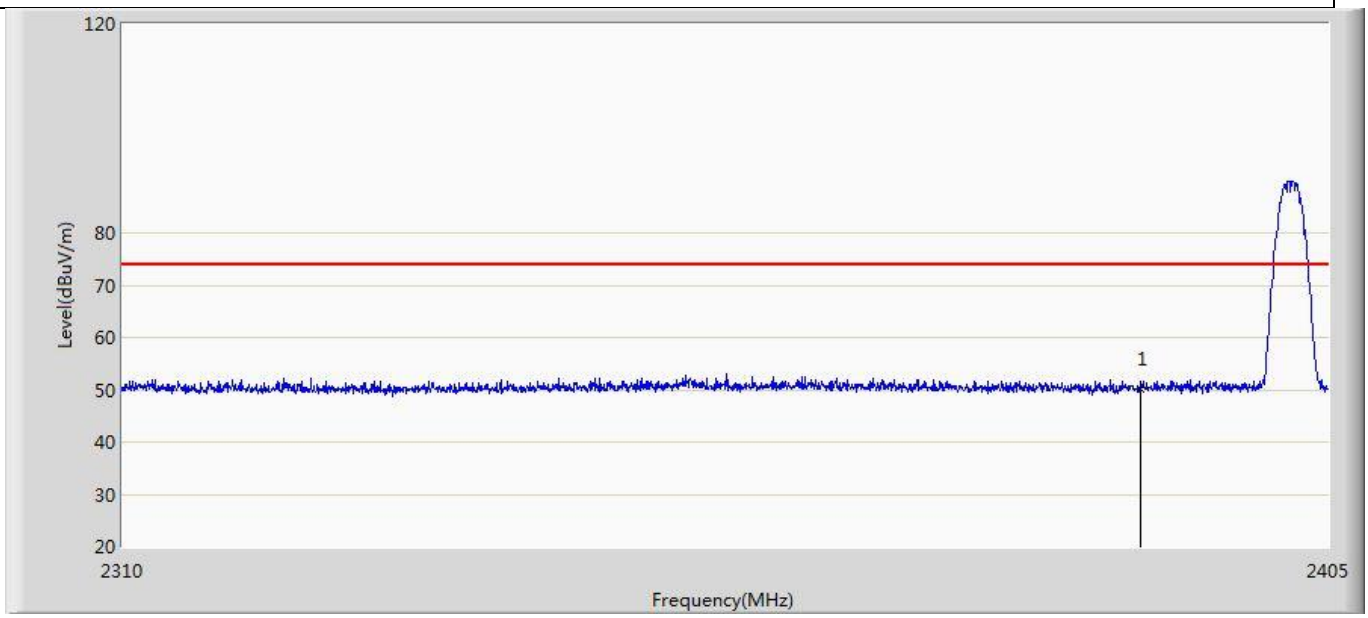
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	50.434	14.213	-23.566	74.000	36.220	PK

Profile: 2250805R	Page No.: 25
Engineer: YuLiu	
Site: AC5	Time: 2022/06/12 - 03:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2402MHz by ble Coded8	



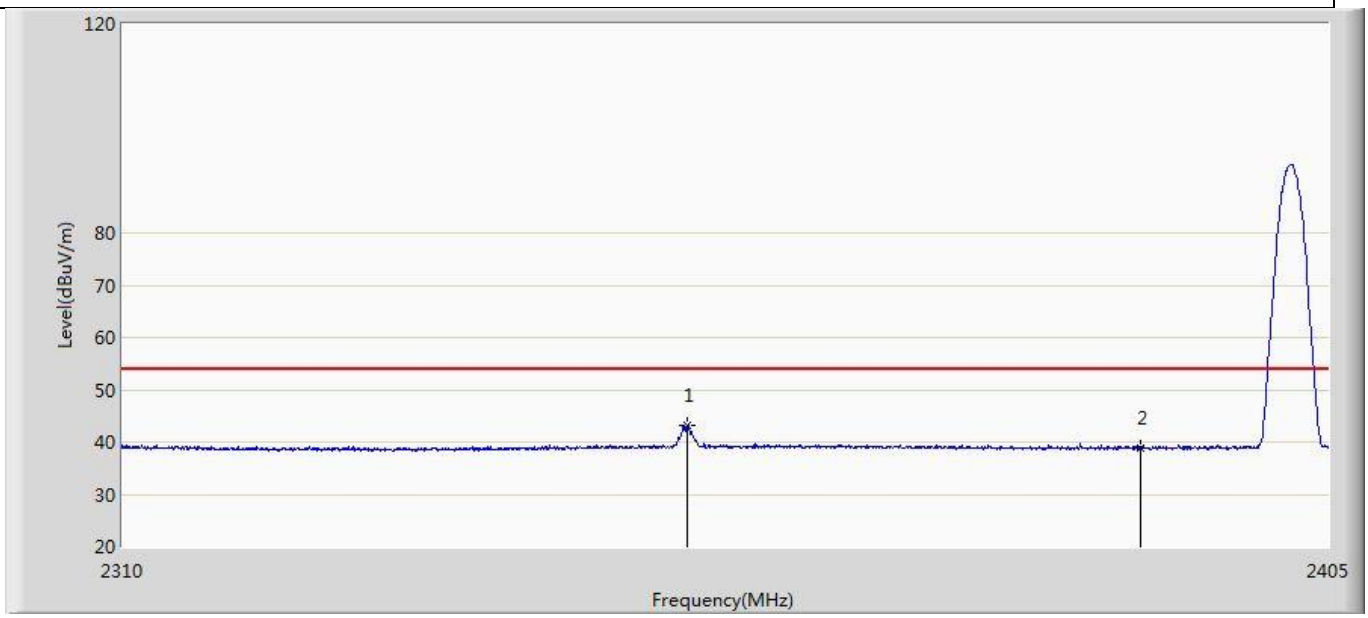
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	38.645	2.547	-15.355	54.000	36.098	AV

Profile: 2250805R	Page No.: 26
Engineer: YuLiu	
Site: AC5	Time: 2022/06/12 - 03:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2402MHz by ble Coded8	



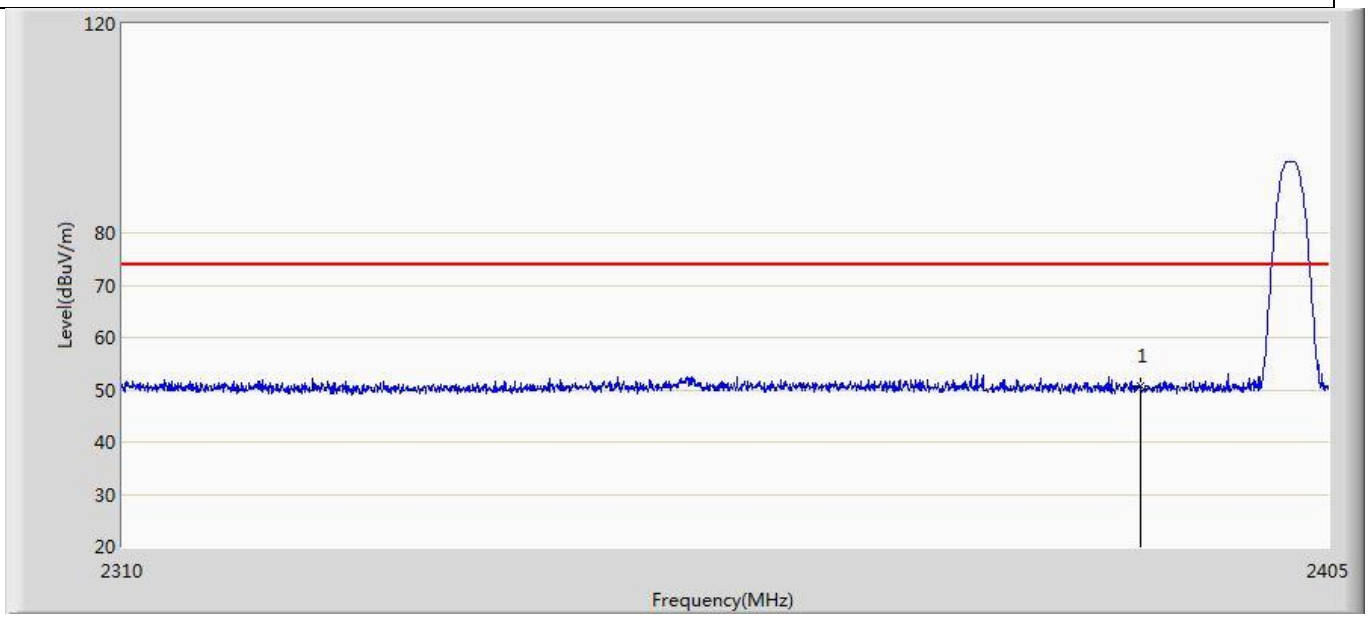
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	50.151	14.053	-23.849	74.000	36.098	PK

Profile: 2250805R	Page No.: 27
Engineer: YuLiu	
Site: AC5	Time: 2022/06/12 - 03:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2402MHz by ble Coded8	



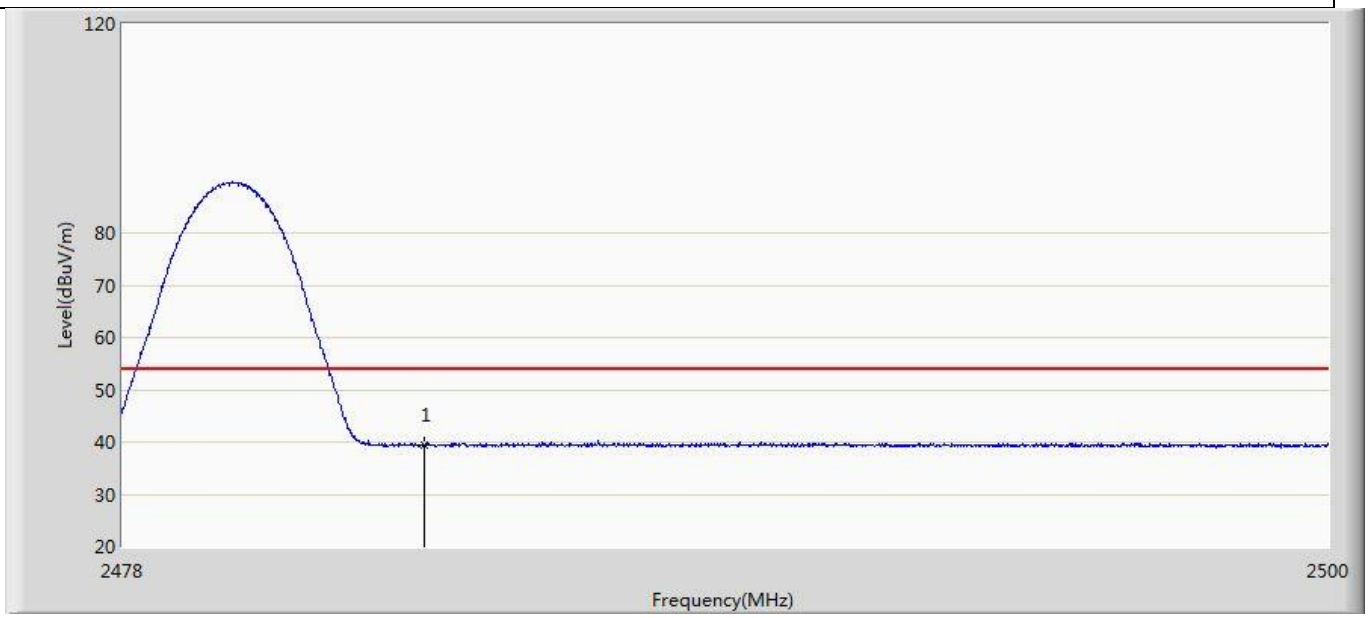
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2354.080	43.255	7.325	-10.745	54.000	35.930	AV
2		2390.000	38.898	2.800	-15.102	54.000	36.098	AV

Profile: 2250805R	Page No.: 28
Engineer: YuLiu	
Site: AC5	Time: 2022/06/12 - 03:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2402MHz by ble Coded8	



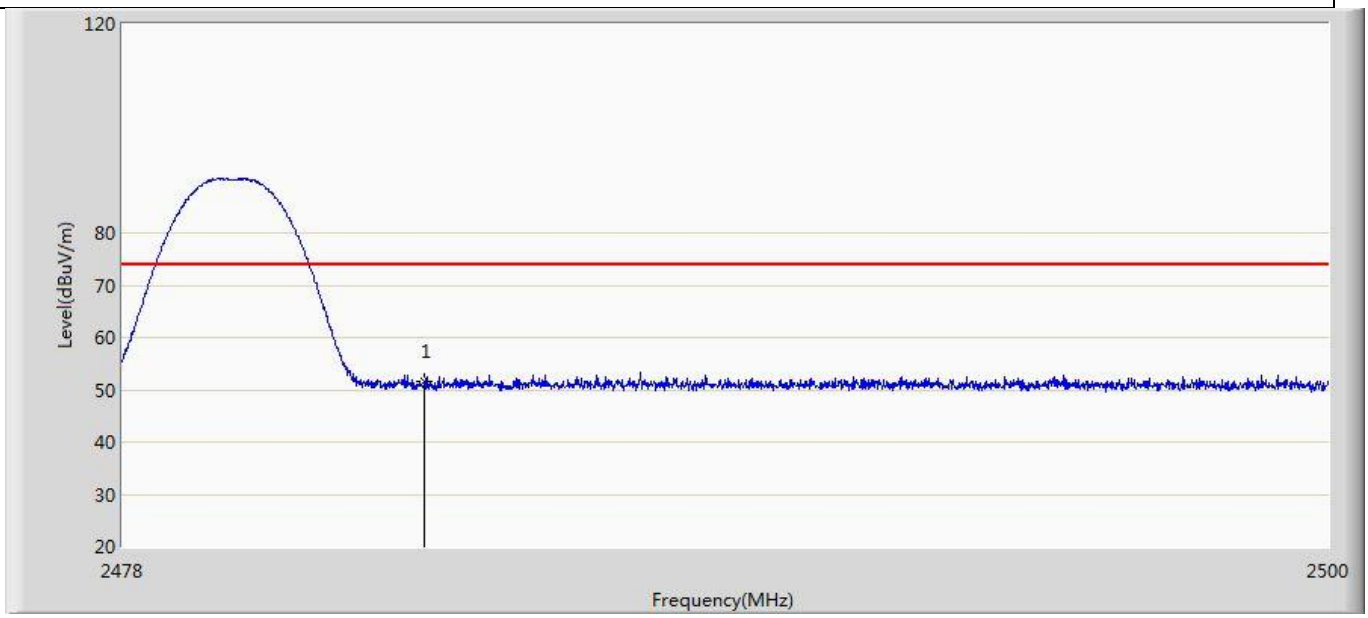
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	50.641	14.543	-23.359	74.000	36.098	PK

Profile: 2250805R	Page No.: 29
Engineer: YuLiu	
Site: AC5	Time: 2022/06/12 - 03:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2480MHz by ble Coded8	



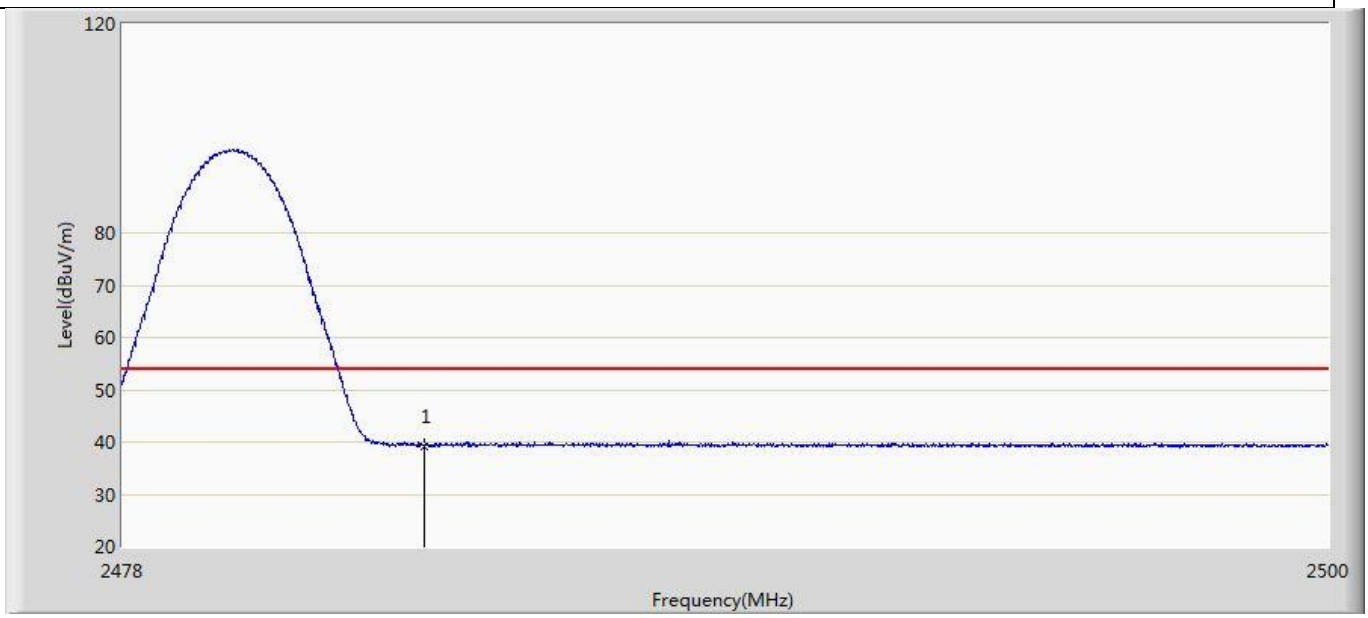
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	39.384	3.163	-14.616	54.000	36.220	AV

Profile: 2250805R	Page No.: 30
Engineer: YuLiu	
Site: AC5	Time: 2022/06/12 - 03:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2480MHz by ble Coded8	



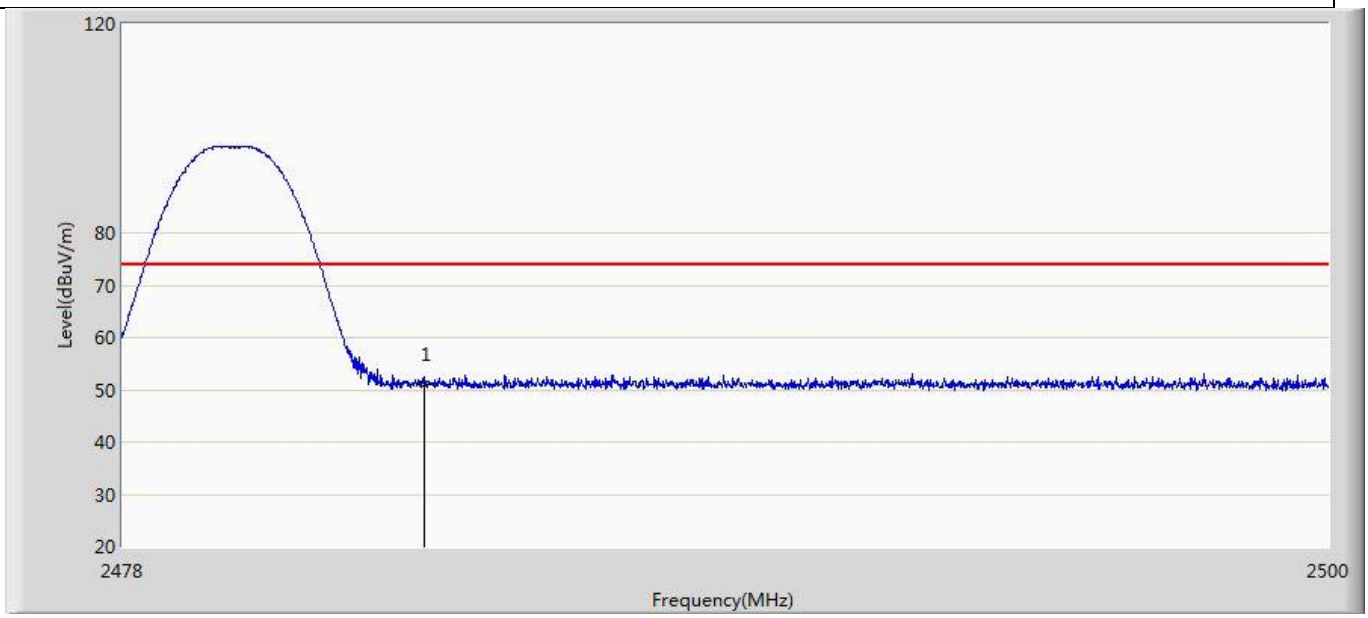
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	51.516	15.295	-22.484	74.000	36.220	PK

Profile: 2250805R	Page No.: 31
Engineer: YuLiu	
Site: AC5	Time: 2022/06/12 - 03:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2480MHz by ble Coded8	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	39.196	2.975	-14.804	54.000	36.220	AV

Profile: 2250805R	Page No.: 32
Engineer: YuLiu	
Site: AC5	Time: 2022/06/12 - 03:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 4:Transmit at 2480MHz by ble Coded8	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	51.003	14.782	-22.997	74.000	36.220	PK

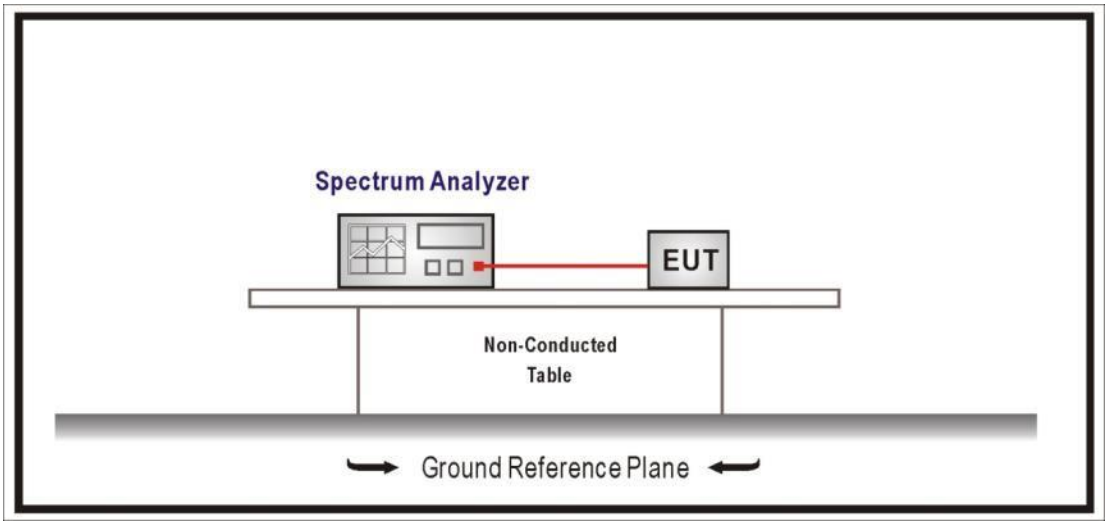
4.6 DTS Bandwidth — VERDICT: PASS

4.6.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.247 (a)(2)

Systems using digital modulation techniques operate in the2400-2483.5 MHz .The minimum 6 dB bandwidth shall be at least 500 kHz

4.6.2 Test Setup



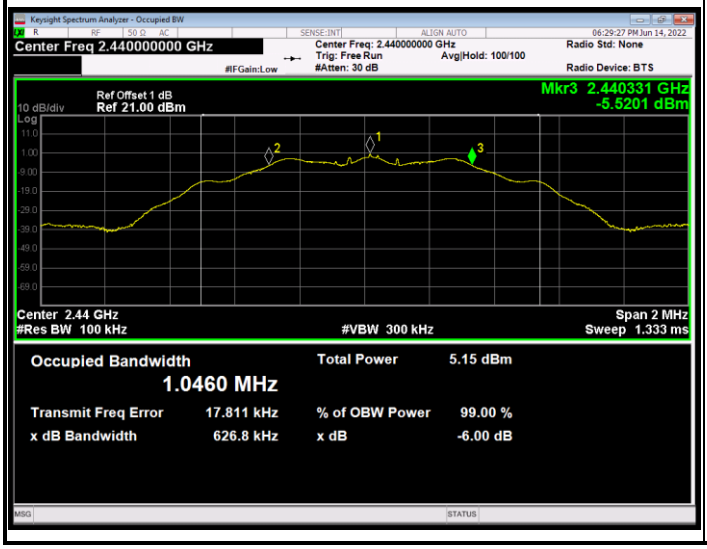
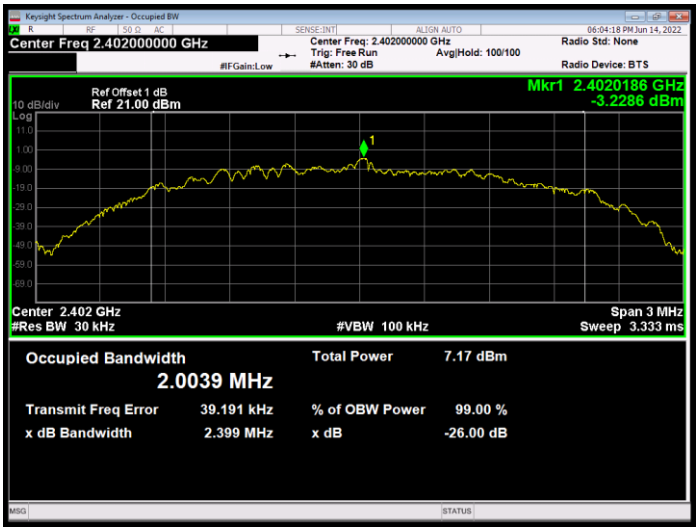
4.6.3 Test Procedure

	Reference Rule		Chapter	Description
☒	ANSI C63.10		11.8	DTS bandwidth
	☐	ANSI C63.10	11.8.1	Option 1
	☒	ANSI C63.10	11.8.2	Option 2

4.6.4 Test Data

Mode	CH.	Test Freq. (MHz)	99% Occupied Bandwidth (MHz)	6dB Occupied Bandwidth (MHz)	Limit (kHz)	Result
1	00	2402	0.666	1.028	>500	Pass
	19	2440	0.671	1.023	>500	Pass
	39	2480	0.669	1.027	>500	Pass
2	00	2402	1.124	2.004	>500	Pass
	19	2440	1.141	2.000	>500	Pass
	39	2480	1.124	1.998	>500	Pass
3	00	2402	0.649	1.011	>500	Pass
	19	2440	0.644	1.007	>500	Pass
	39	2480	0.653	1.014	>500	Pass
4	00	2402	0.651	1.046	>500	Pass
	19	2440	0.627	1.044	>500	Pass
	39	2480	0.629	1.046	>500	Pass

Note : The worst case of Occupied Bandwidth as below:

99% Occupied Bandwidth	6dB Occupied Bandwidth
Mode 4 CH19 (2440MHz)	Mode 2 CH00(2402MHz)
	

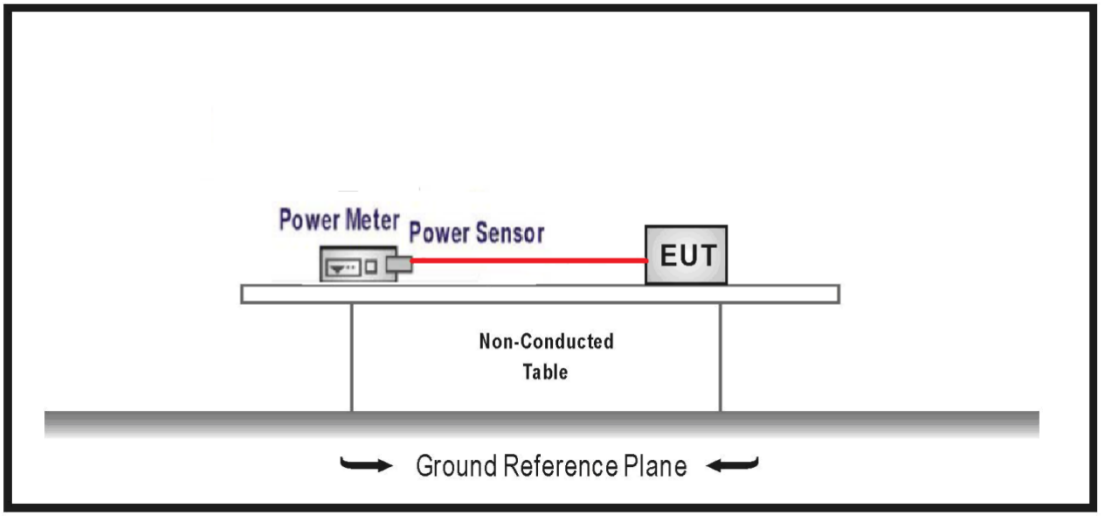
4.7 Fundamental emission output power	VERDICT: PASS

4.7.1 Limit

Standard			FCC Part 15 Subpart C Paragraph 15.247 (b)(3)
☒	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 .

4.7.2 Test Setup



4.7.3 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

4.7.4 Test Data

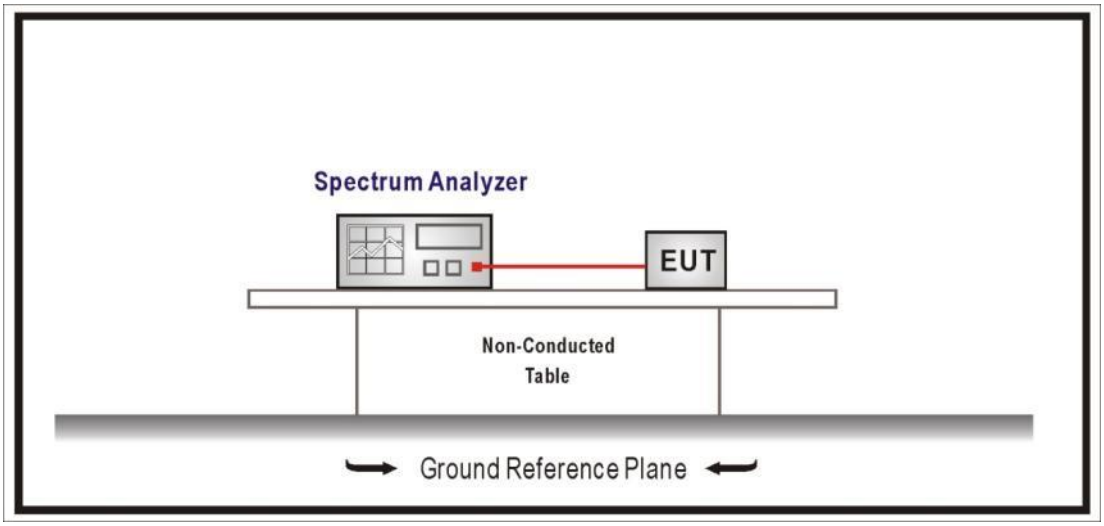
Mode	Channel	Test Frequency (MHz)	Conducted Power (dBm)	EIRP (dBm)	Conducted Power Limit (dBm)	EIRP Limit (dBm)	Result
Mode 1	00	2402	1.57	4.22	⩽30	⩽36	Pass
	19	2440	1.82	4.47	⩽30	⩽36	Pass
	39	2480	2.08	4.73	⩽30	⩽36	Pass
Mode 2	00	2402	1.31	3.96	⩽30	⩽36	Pass
	19	2440	1.60	4.25	⩽30	⩽36	Pass
	39	2480	1.85	4.50	⩽30	⩽36	Pass
Mode 3	00	2402	1.58	4.23	⩽30	⩽36	Pass
	19	2440	1.85	4.50	⩽30	⩽36	Pass
	39	2480	2.10	4.75	⩽30	⩽36	Pass
Mode 4	00	2402	1.55	4.20	⩽30	⩽36	Pass
	19	2440	1.82	4.47	⩽30	⩽36	Pass
	39	2480	2.05	4.70	⩽30	⩽36	Pass

Power Setting：power setting is default.

4.8 Power Density	VERDICT: PASS

4.8.1 Limit:	
Standard	FCC Part 15 Subpart C Paragraph 15.247 (b)(3)
Power Spectral Density≤8dBm/3kHz	

4.8.2 Test Setup



4.8.3 Test Procedure

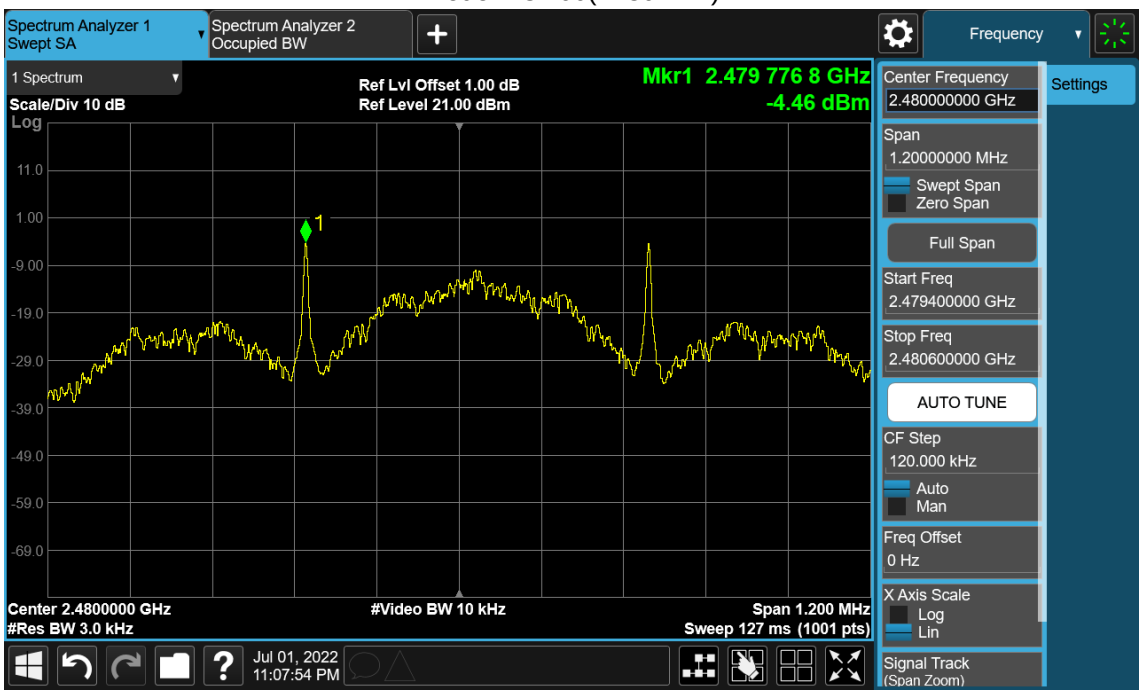
	References Rule		Chapter	Description
☒	ANSI C63.10		11.10	Maximum power spectral density level in the fundamental emission
	☐	ANSI C63.10	11.10.2	Method PKPSD (peak PSD)
	☐	ANSI C63.10	11.10.3	Method AVGPSD-1(Duty cycle≥98%)
	☐	ANSI C63.10	11.10.4	Method AVGPSD-1A(Duty cycle≥98%)
	☒	ANSI C63.10	11.10.5	Method AVGPSD-2(Duty cycle＜98%)
	☐	ANSI C63.10	11.10.6	Method AVGPSD-2A(Duty cycle＜98%)
	☐	ANSI C63.10	11.10.7	Method AVGPSD-3
	☐	ANSI C63.10	11.10.8	Method AVGPSD-3A

4.8.4 Test Data

Mode	Channel	Test Frequency (MHz)	Measurement PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
Mode 1	00	2402	-13.33	≤8	Pass
	19	2440	-13.04	≤8	Pass
	39	2480	-12.91	≤8	Pass
Mode 2	00	2402	-16.28	≤8	Pass
	19	2440	-15.87	≤8	Pass
	39	2480	-15.84	≤8	Pass
Mode 3	00	2402	-4.90	≤8	Pass
	19	2440	-4.51	≤8	Pass
	39	2480	-4.60	≤8	Pass
Mode 4	00	2402	-4.82	≤8	Pass
	19	2440	-4.49	≤8	Pass
	39	2480	-4.46	≤8	Pass

Note : The worst case of PSD as below:

Mode 4 CH00(2480MHz)



Note：We used the peak detector test result below the limit of 12db, so did not use the RMS detector.

4.9 Antenna Requirement	VERDICT: PASS

4.9.1 Limit:	
Standard	FCC Part 15 Subpart C Paragraph 15.203
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.	

4.9.2 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.

The End