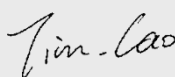
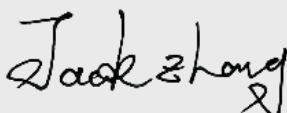


Test report No:
2250805R-RF-US-P06V04

FCC & ISED TEST REPORT

Product Name	VR All-In-One Headset
Trademark	
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 KDB 558074 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

INDEX

	page
General conditions	4
Environmental conditions	4
Possible test case verdicts	5
Abbreviations.....	5
Document History.....	6
Remarks and Comments	6
Used Equipment.....	7
Uncertainty	9
1 General Information	10
1.1 General Description of the Item(s).....	10
1.2 Antenna Information	11
1.3 Channel List.....	12
2 Description of Test Setup.....	13
2.1 Operating mode(s) used for tests	13
2.2 Auxiliary equipment / Test software for the EUT	13
2.3 Test Configuration / Block diagram used for tests.....	14
2.4 Testing process	15
3 Verdict summary section.....	16
3.1 Standards	16
3.2 Deviation(s) from the Standard(s) / Test Specification(s).....	16
3.3 Overview of results	17
3.4 Test Facility.....	18
4 Test Results	19
4.1 AC Power Line Conducted Emission.....	19
4.1.1 Limit	19
4.1.2 Test Setup	19
4.1.3 Test Procedure	19
4.1.4 Test Data	20
4.2 Emissions in restricted frequency bands	22
4.2.1 Limit	22
4.2.2 Test Setup	24
4.2.3 Test Procedure	25
4.2.4 Test Data	26
4.3 Emissions in non-restricted frequency band	42

4.3.1	Limit	42
4.3.2	Test Setup	42
4.3.3	Test Procedure	42
4.3.4	Test Data	43
4.4	Duty cycle	45
4.4.1	Limit	45
4.4.2	Test Setup	45
4.4.3	Test Procedure	45
4.4.4	Test Data	46
4.5	Band Edge	47
4.5.1	Limit	47
4.5.2	Test Setup	47
4.5.3	Test Procedure	47
4.5.4	Test Data	48
4.6	DTS Bandwidth	64
4.6.1	Limit	64
4.6.2	Test Setup	64
4.6.3	Test Procedure	64
4.6.4	Test Data	65
4.7	Fundamental emission output power	66
4.7.1	Limit	66
4.7.2	Test Setup	66
4.7.3	Test Procedure	67
4.7.4	Test Data	68
4.8	Power Density	69
4.8.1	Limit:	69
4.8.2	Test Setup	69
4.8.3	Test Procedure	69
4.8.4	Test Data	70
4.9	Antenna Requirement	72
4.9.1	Limit:	72
4.9.2	Antenna Connector Construction:	72
5	Test setup photo and EUT Photo	73

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.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

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)	Jun. 24, 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-P06V04	V1.0	Initial issue of report.	2022-07-13
2250805R-RF-US-P06V04	V1.1	Page1&10 modified the Applicant&Manufacturer address, and Page68 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 Analyzer	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 comply 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	± 1.27 dB
Radiated Emission Band Edge	± 3.9 dB
DTS Bandwidth	± 150 Hz
Occupied Bandwidth	± 1 kHz
Power Density	± 1.27 dB

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
Manufacturer	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 Development District, Weifang, Shandong, 261031, P.R.China

Wireless specification	BLE					
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					

Note: BLE is a customer defined protocol.

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	Left Antenna: 2.73dBi		
	Right Antenna: 2.73dBi		

Note: Antenna is divided into left and right antennas, we have conducted evaluation tests on both antennas.

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_2Mbps
-------------------------	-----------------------------

2.2 Accessories Information

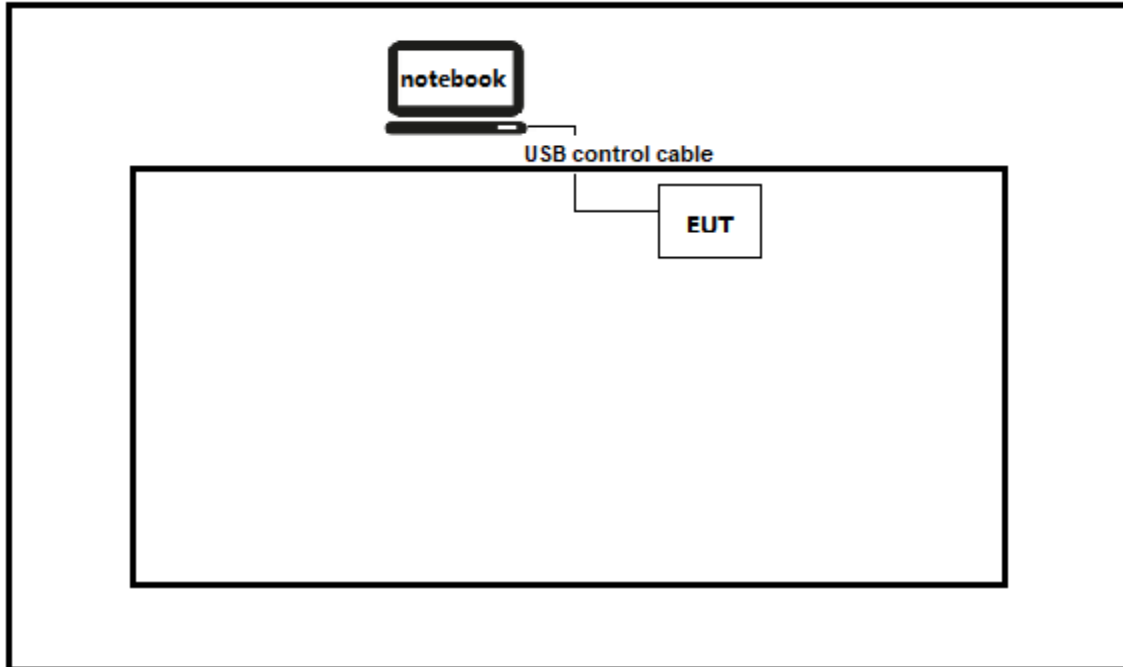
Accessories Information	Brand/model name	Cable		
		Length used during test [m]	Attached during test	Shielded
USB Cable	N/A	10	☒	☒
USB Cable	N/A	0.5	☒	☒

2.3 Auxiliary equipment / Test software for the EUT

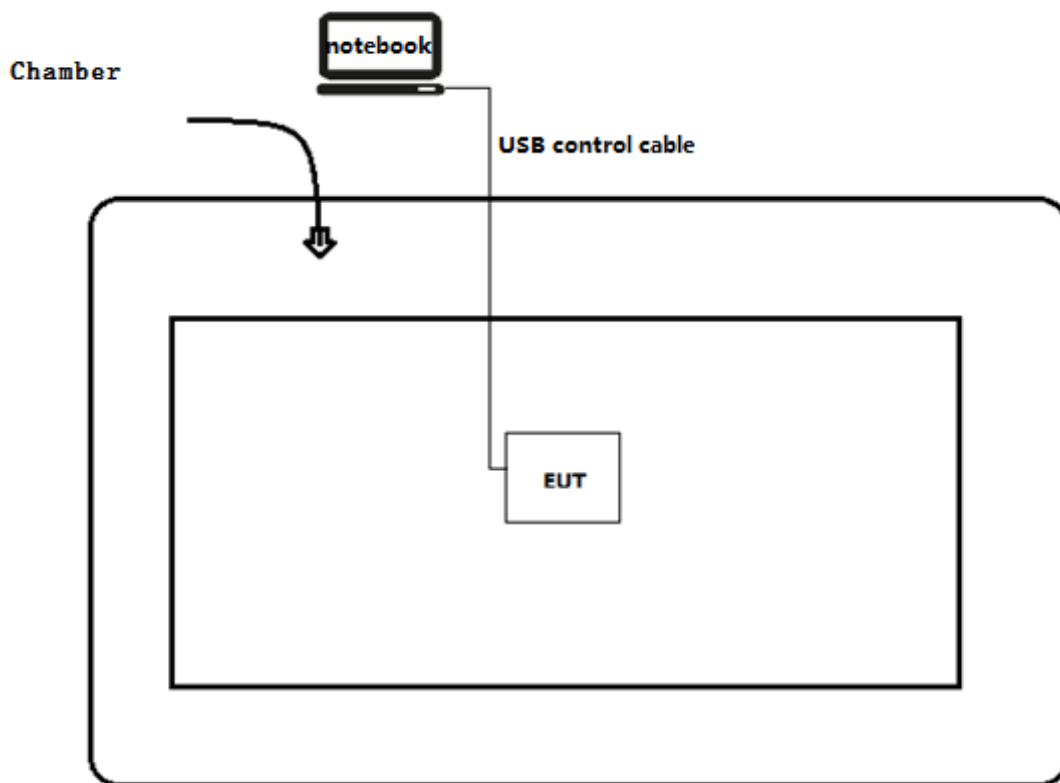
Auxiliary equipment	Type / Version	Manufacturer	Supplied by
Notebook	2526	Think Pad	N/A
Software	Type / Version	Manufacturer	Supplied by
sscom5	N/A	N/A	N/A

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 “sscom5” 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 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
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 for Compliance 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 5 Section 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

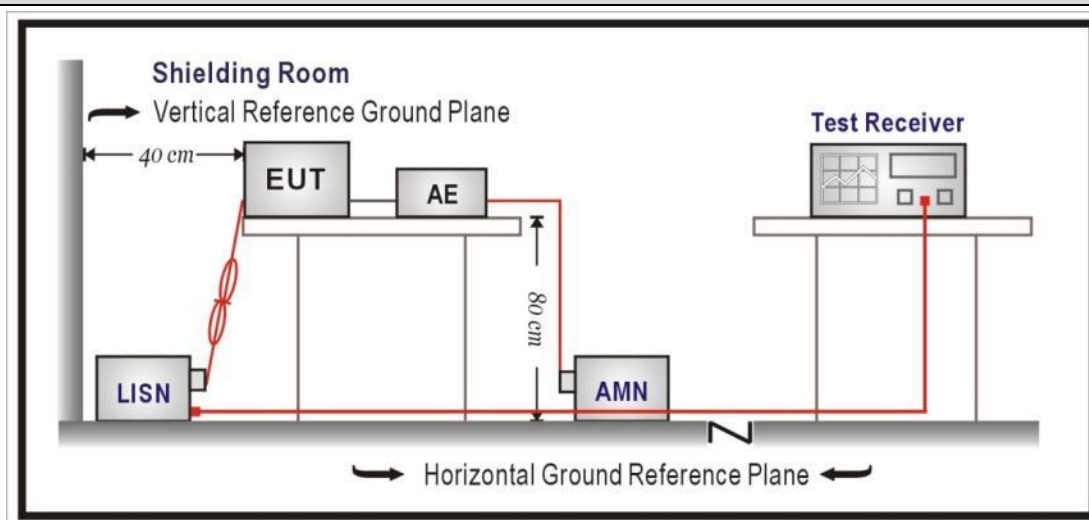
¹⁾ At the transition frequency, the lower limit applies.

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

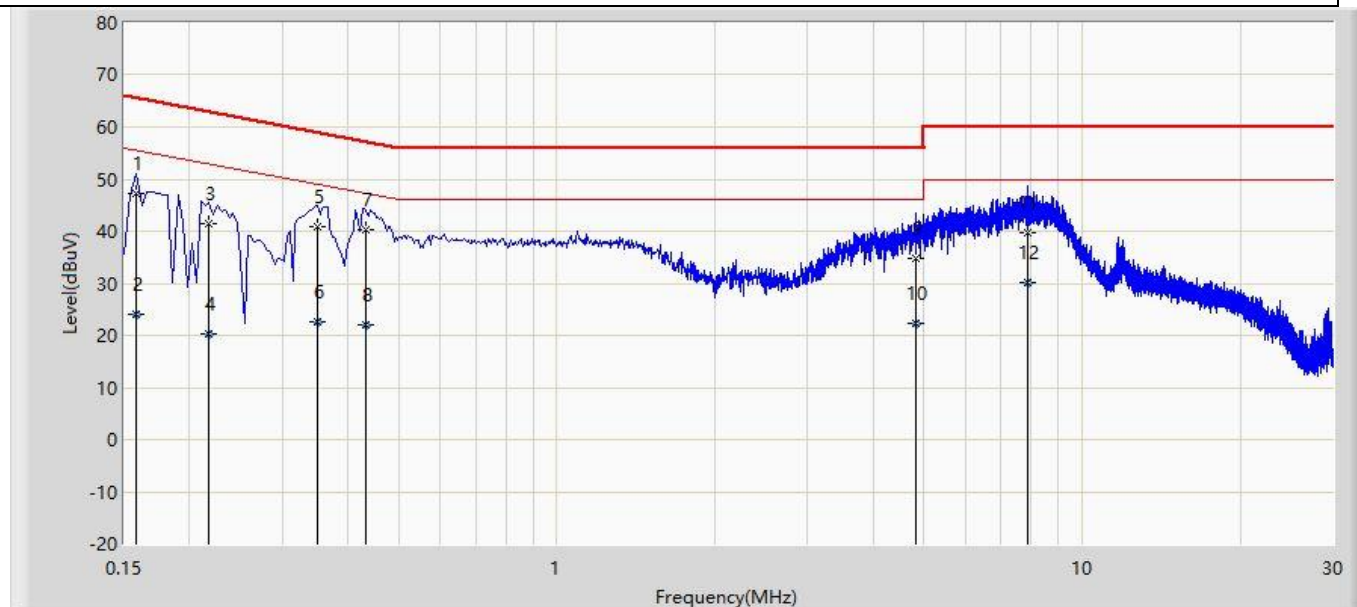


4.1.3 Test Procedure

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

4.1.4 Test Data

Profile: 2250805R	Page No.: 63
Engineer: YuLiu	
Site: TR1	Time: 2022/06/20 - 22:39
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	

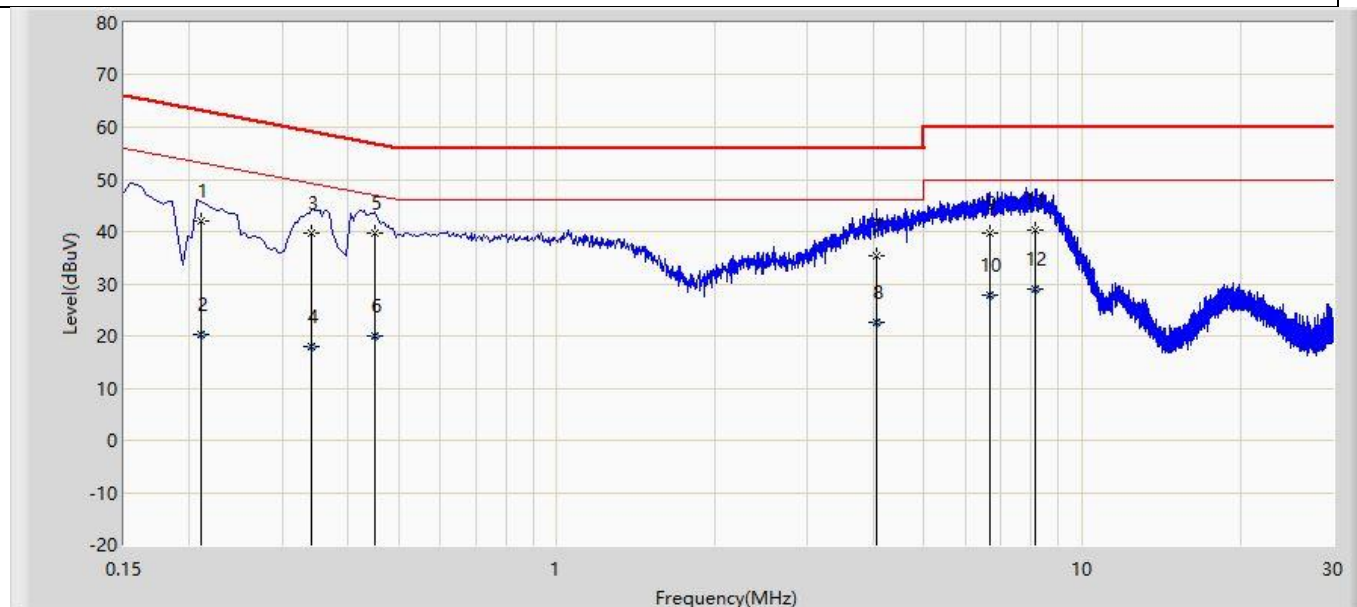


No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.158	47.111	37.531	-18.457	65.568	9.552	0.028	0.000	QP
2		0.158	24.117	14.537	-31.451	55.568	9.552	0.028	0.000	AV
3		0.218	41.523	31.935	-21.371	62.895	9.561	0.028	0.000	QP
4		0.218	20.382	10.794	-32.513	52.895	9.561	0.028	0.000	AV
5		0.350	40.736	31.138	-18.226	58.962	9.570	0.028	0.000	QP
6		0.350	22.606	13.008	-26.357	48.962	9.570	0.028	0.000	AV
7	*	0.434	40.243	30.625	-16.933	57.176	9.575	0.043	0.000	QP
8		0.434	22.135	12.517	-25.041	47.176	9.575	0.043	0.000	AV
9		4.834	34.866	25.057	-21.134	56.000	9.666	0.142	0.000	QP
10		4.834	22.322	12.514	-23.678	46.000	9.666	0.142	0.000	AV
11		7.898	39.813	29.873	-20.187	60.000	9.761	0.179	0.000	QP
12		7.898	30.165	20.225	-19.835	50.000	9.761	0.179	0.000	AV

Note:

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

Profile: 2250805R	Page No.: 63
Engineer: YuLiu	
Site: TR1	Time: 2022/06/20 - 22:40
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)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.210	41.931	32.354	-21.274	63.205	9.551	0.027	0.000	QP
2		0.210	20.221	10.644	-32.984	53.205	9.551	0.027	0.000	AV
3		0.342	39.779	30.184	-19.375	59.155	9.564	0.031	0.000	QP
4		0.342	17.877	8.282	-31.277	49.155	9.564	0.031	0.000	AV
5	*	0.450	39.722	30.109	-17.153	56.875	9.575	0.038	0.000	QP
6		0.450	19.945	10.332	-26.930	46.875	9.575	0.038	0.000	AV
7		4.054	35.246	25.480	-20.754	56.000	9.638	0.128	0.000	QP
8		4.054	22.584	12.818	-23.416	46.000	9.638	0.128	0.000	AV
9		6.674	39.571	29.689	-20.429	60.000	9.718	0.163	0.000	QP
10		6.674	27.905	18.024	-22.095	50.000	9.718	0.163	0.000	AV
11		8.146	40.296	30.352	-19.704	60.000	9.760	0.183	0.000	QP
12		8.146	29.097	19.153	-20.903	50.000	9.760	0.183	0.000	AV

Note:

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

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)

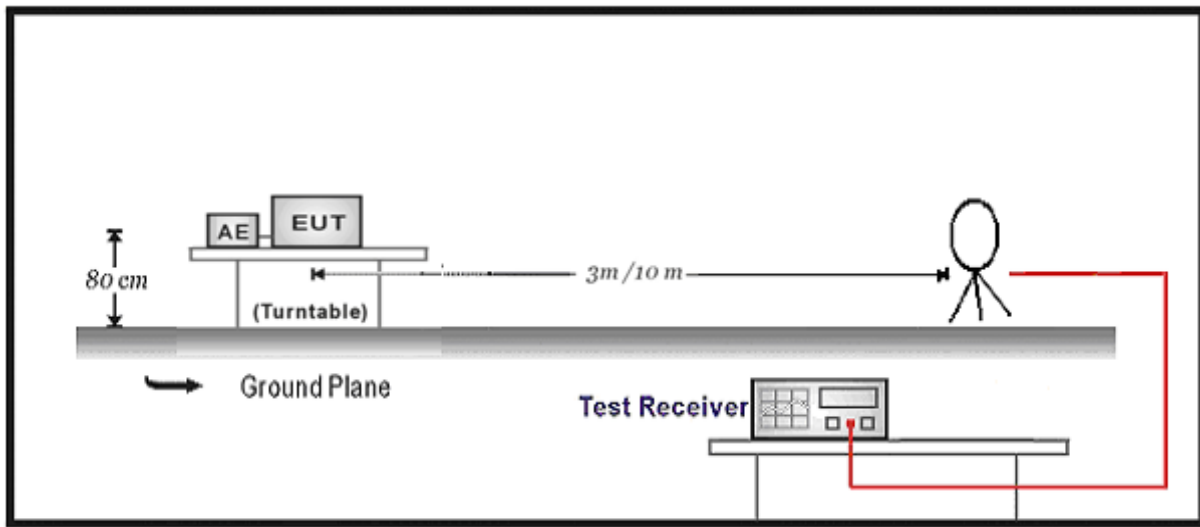
Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed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

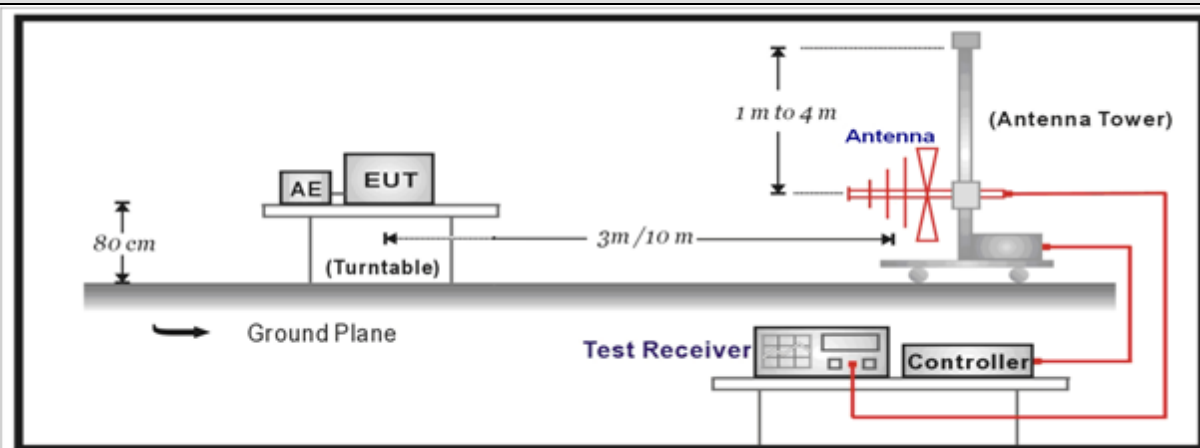
Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified 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

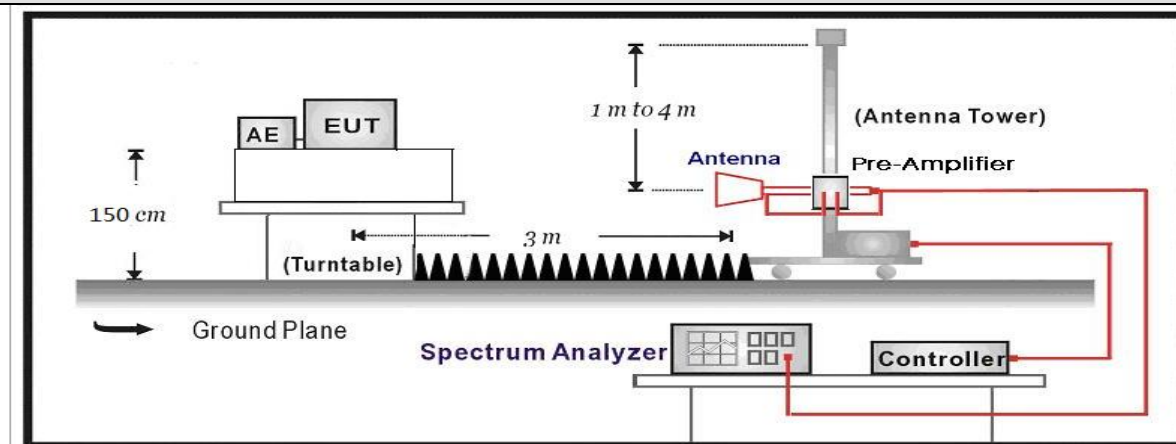
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



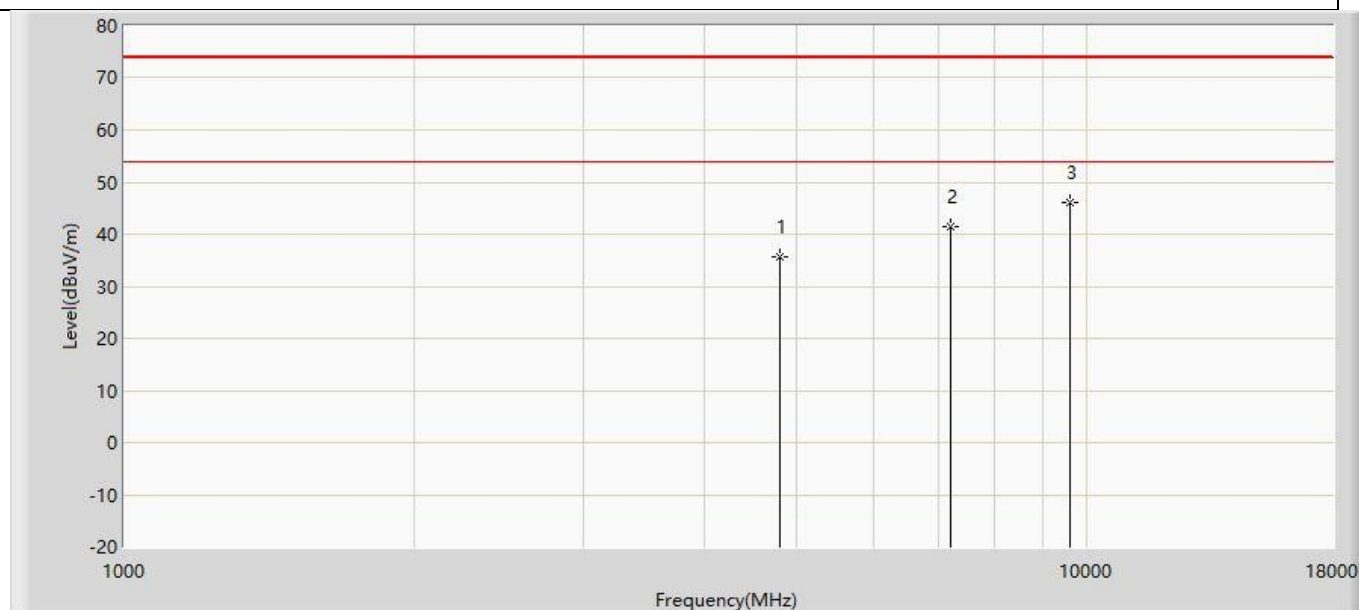
4.2.3 Test Procedure

	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

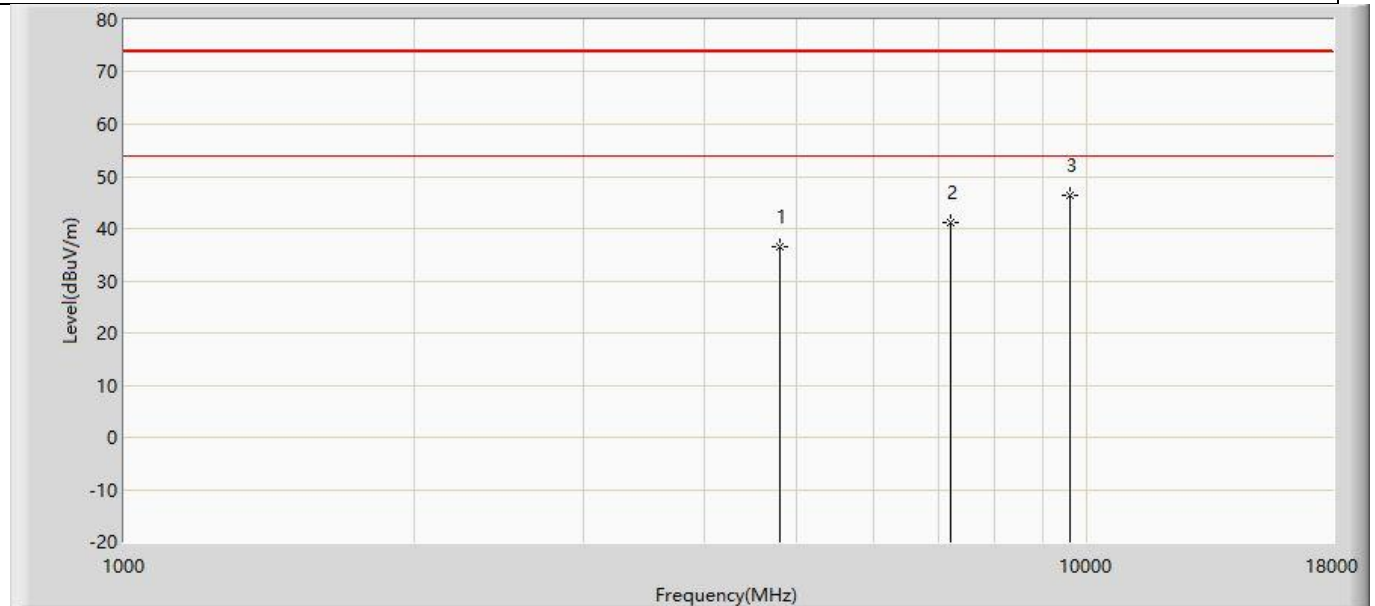
Left Antenna:

Profile: 2250805R	Page No.: 13
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 04:42
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	



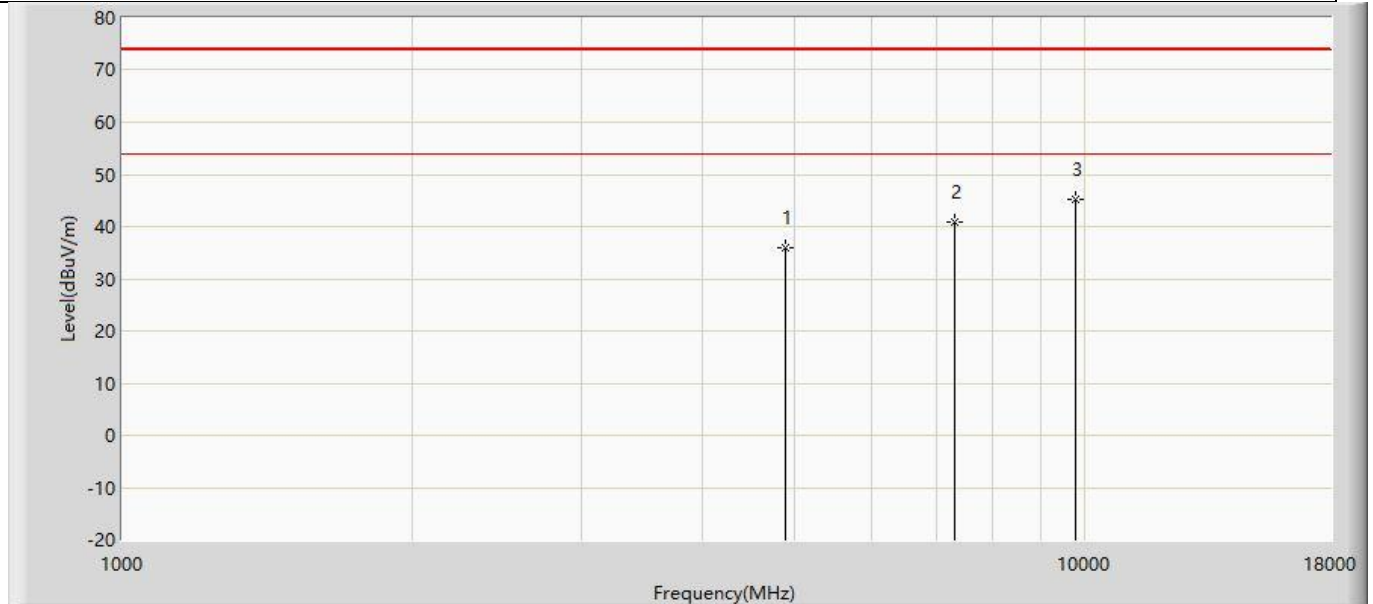
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	35.598	50.256	-38.402	74.000	-14.657	PK
2		7206.000	41.568	50.299	-32.432	74.000	-8.731	PK
3	*	9608.000	46.174	50.996	-27.826	74.000	-4.822	PK

Profile: 2250805R	Page No.: 14
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 04:42
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	



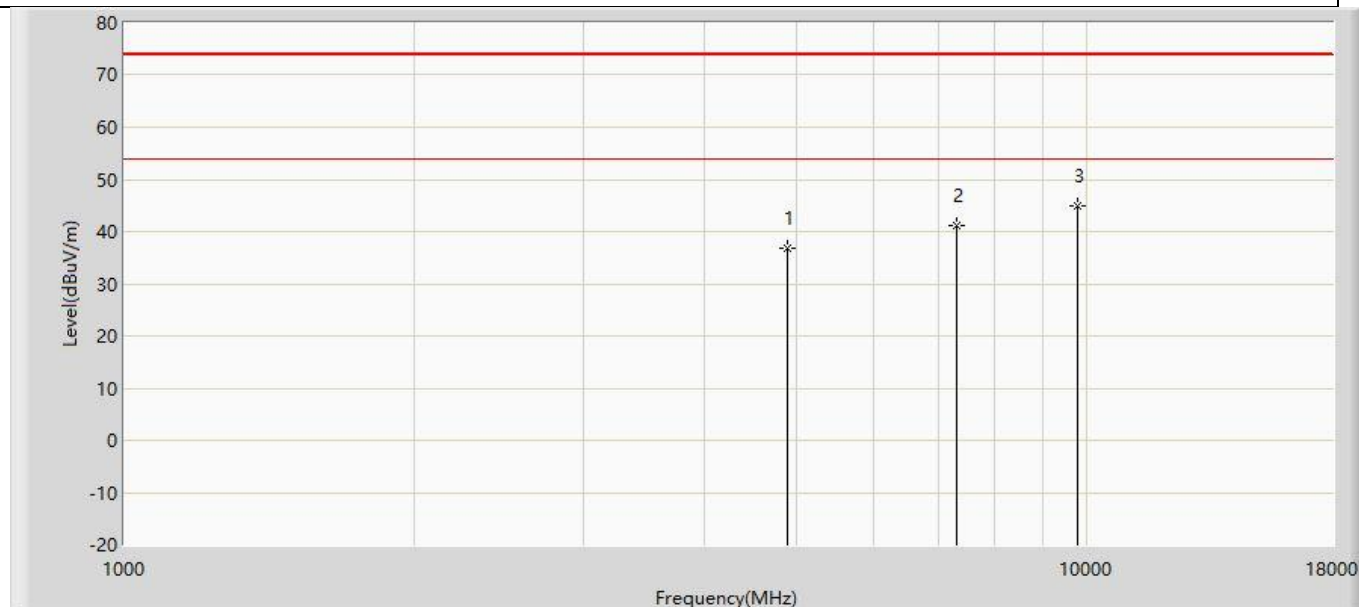
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	36.406	51.064	-37.594	74.000	-14.657	PK
2		7206.000	41.102	49.833	-32.898	74.000	-8.731	PK
3	*	9608.000	46.374	51.196	-27.626	74.000	-4.822	PK

Profile: 2250805R	Page No.: 15
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 04:42
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	



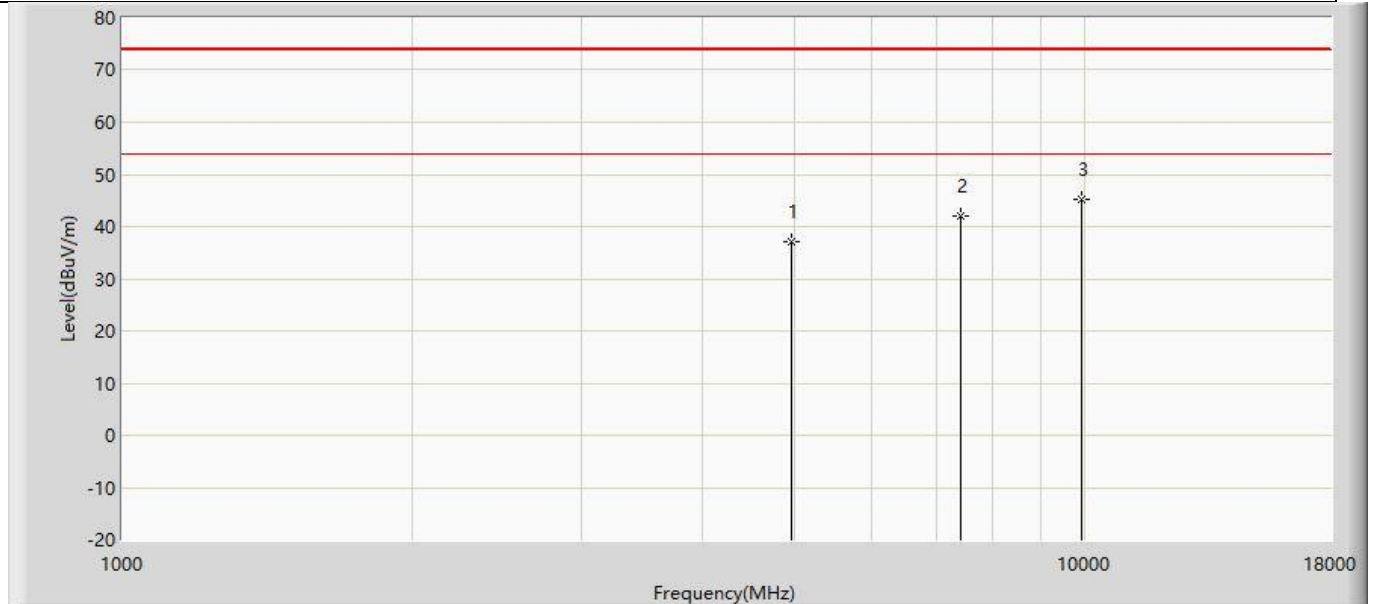
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4880.000	36.063	50.451	-37.937	74.000	-14.388	PK
2		7320.000	40.726	49.046	-33.274	74.000	-8.320	PK
3	*	9760.000	45.127	49.801	-28.873	74.000	-4.673	PK

Profile: 2250805R	Page No.: 16
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 04:43
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	



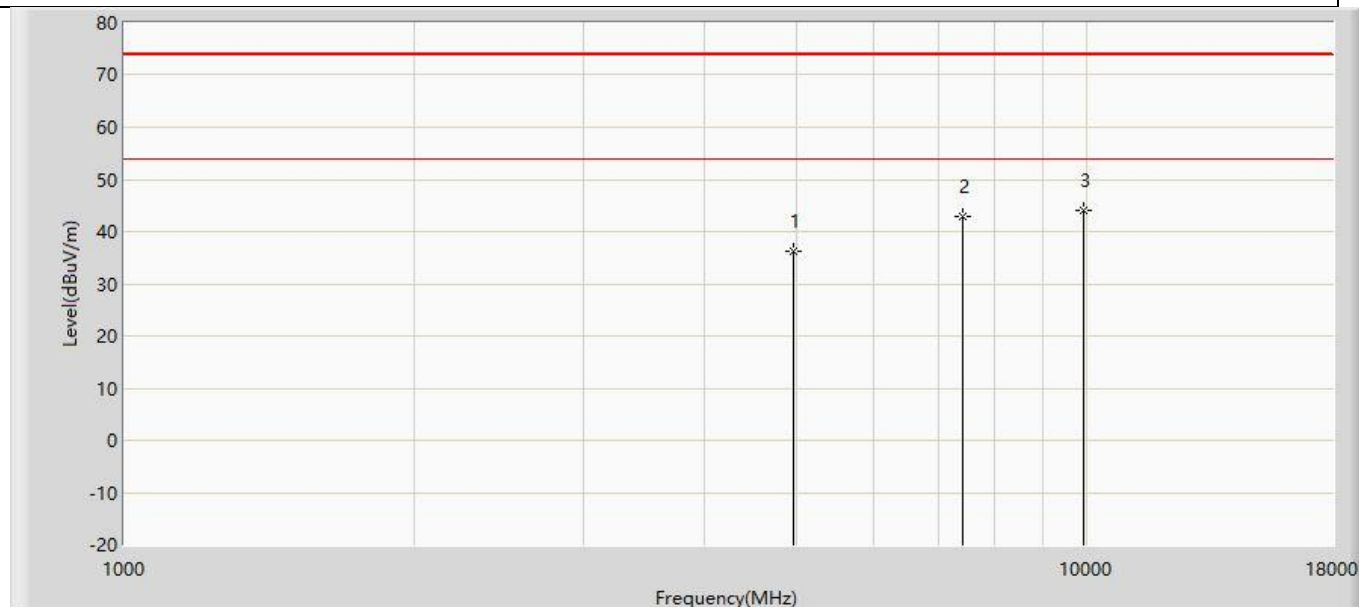
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4880.000	36.733	51.121	-37.267	74.000	-14.388	PK
2		7320.000	41.304	49.624	-32.696	74.000	-8.320	PK
3	*	9760.000	45.062	49.736	-28.938	74.000	-4.673	PK

Profile: 2250805R	Page No.: 17
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 04:43
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	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	37.184	51.304	-36.816	74.000	-14.120	PK
2		7440.000	42.158	49.993	-31.842	74.000	-7.834	PK
3	*	9920.000	45.201	49.272	-28.799	74.000	-4.071	PK

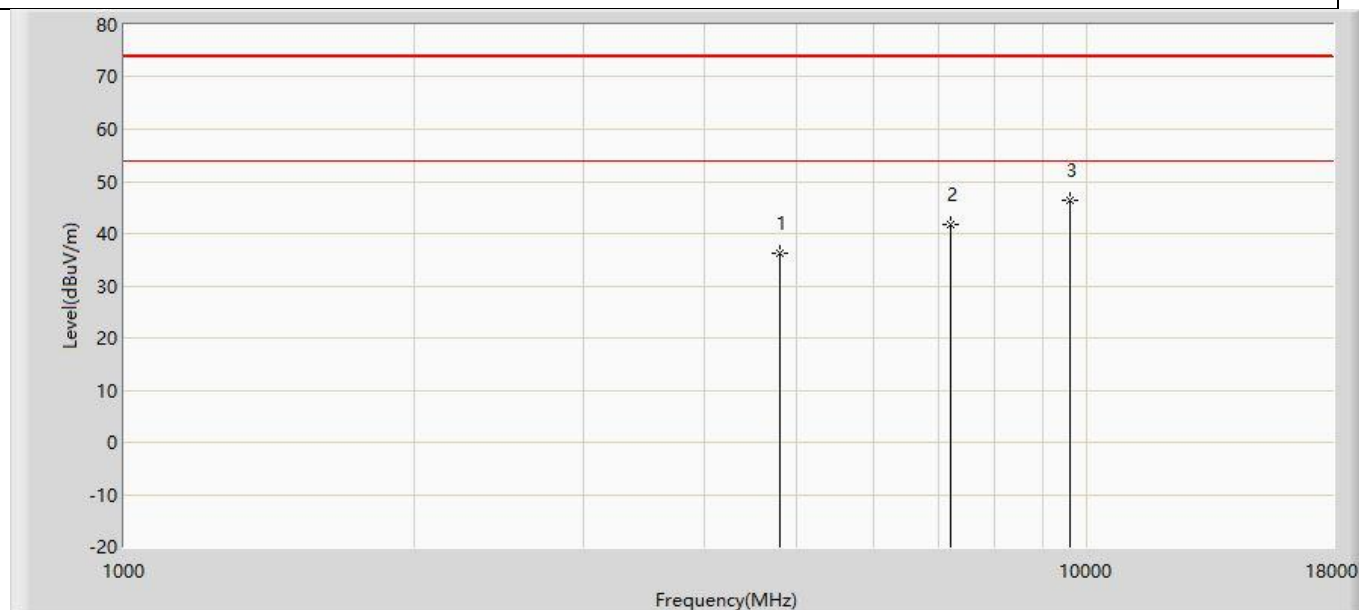
Profile: 2250805R	Page No.: 18
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 04:43
Limit: FCC-15.209	Margin: 0
Probe: FCC_ANT-1-18G	Polarity: Vertical
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2480MHz by BLE	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	36.162	50.282	-37.838	74.000	-14.120	PK
2		7440.000	42.835	50.670	-31.165	74.000	-7.834	PK
3	*	9920.000	44.158	48.229	-29.842	74.000	-4.071	PK

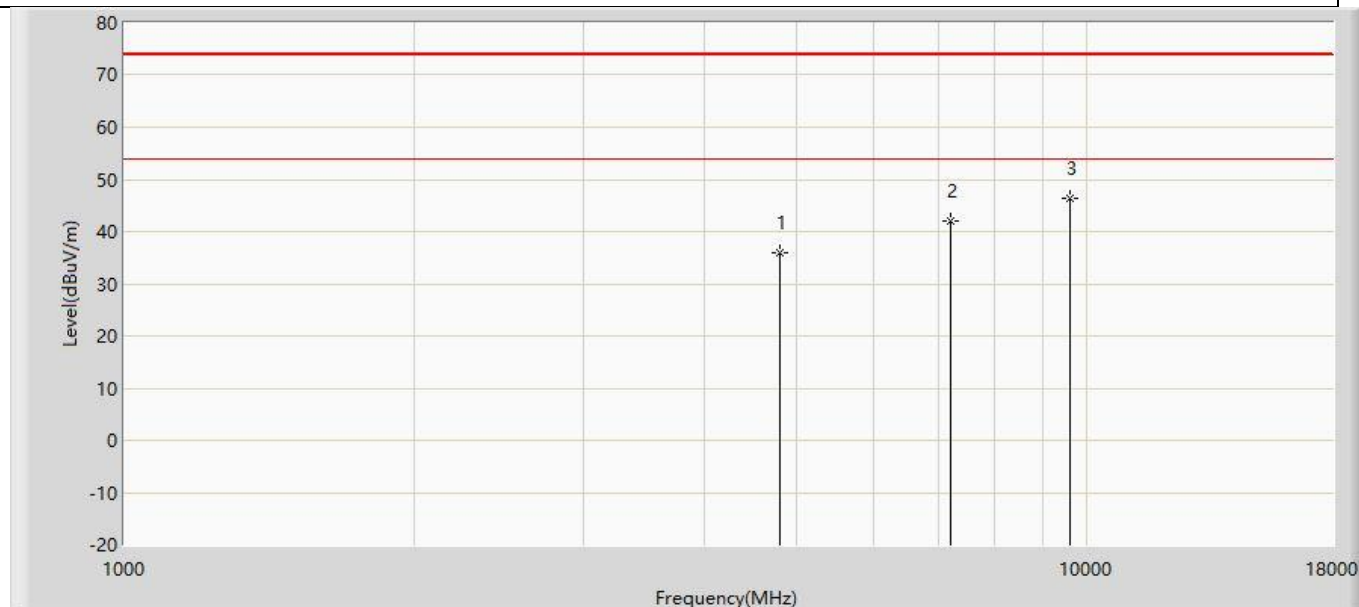
Right Antenna:

Profile: 2250805R	Page No.: 19
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 04:43
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	



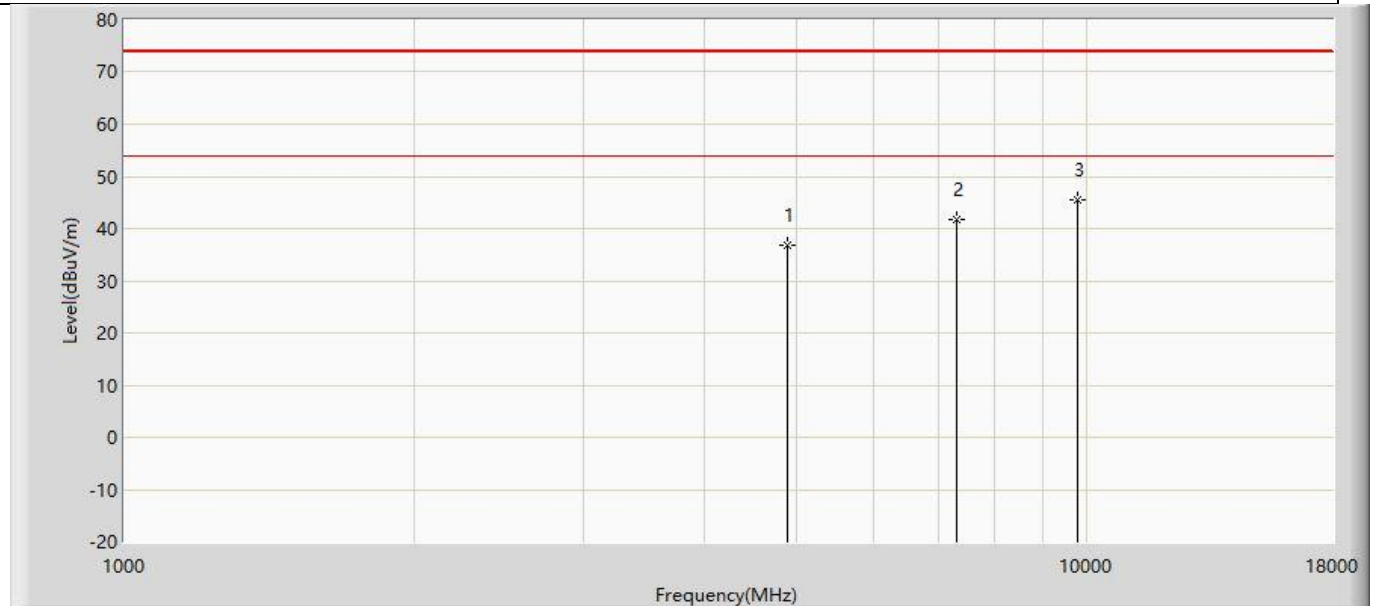
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	36.354	51.012	-37.646	74.000	-14.657	PK
2		7206.000	41.710	50.441	-32.290	74.000	-8.731	PK
3	*	9608.000	46.252	51.074	-27.748	74.000	-4.822	PK

Profile: 2250805R	Page No.: 20
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 04:43
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	



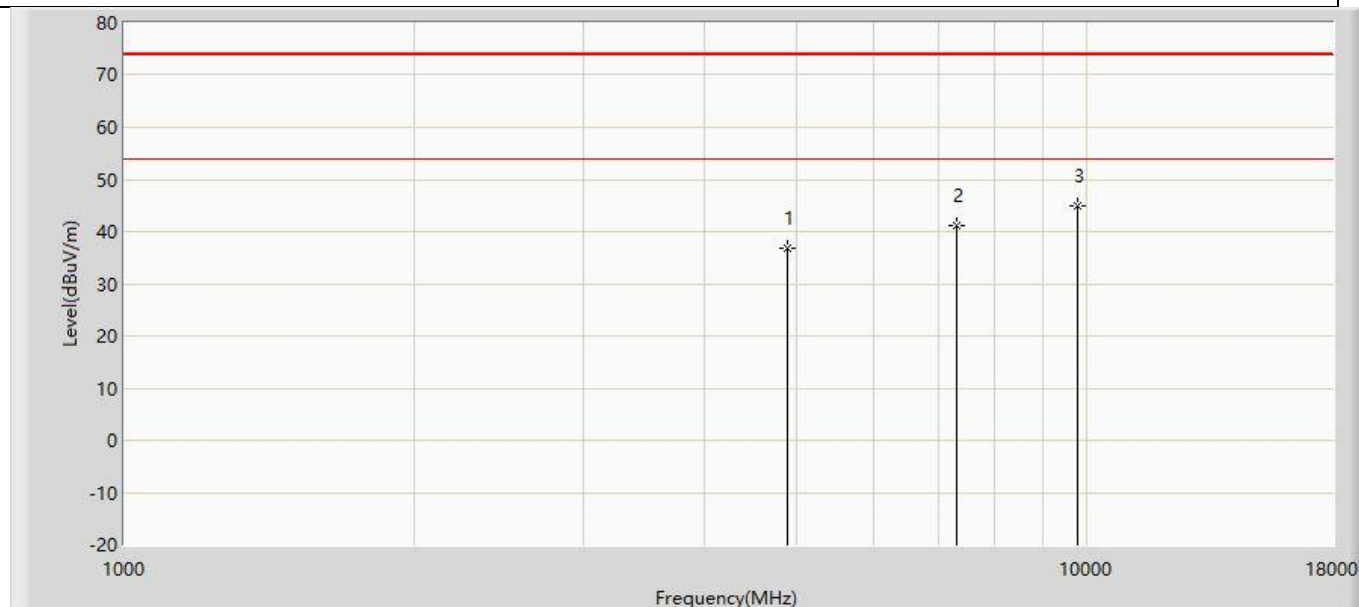
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	35.821	50.479	-38.179	74.000	-14.657	PK
2		7206.000	41.998	50.729	-32.002	74.000	-8.731	PK
3	*	9608.000	46.413	51.235	-27.587	74.000	-4.822	PK

Profile: 2250805R	Page No.: 21
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 04:43
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	



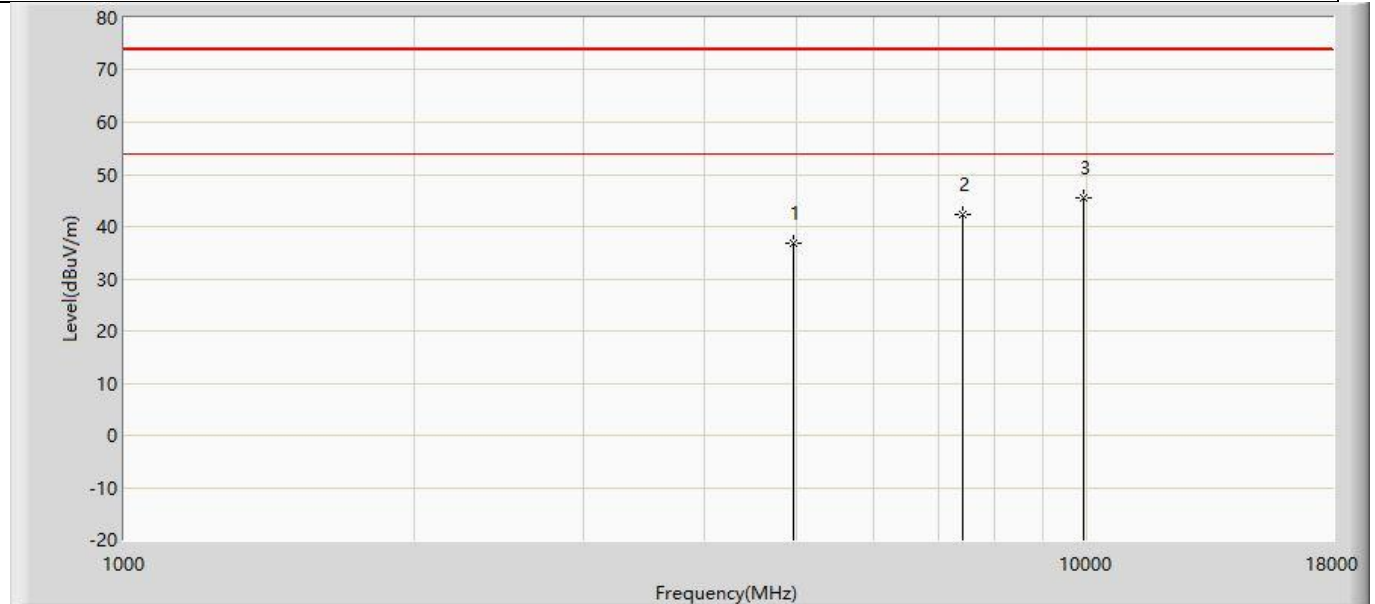
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4880.000	36.720	51.108	-37.280	74.000	-14.388	PK
2		7320.000	41.803	50.123	-32.197	74.000	-8.320	PK
3	*	9760.000	45.381	50.055	-28.619	74.000	-4.673	PK

Profile: 2250805R	Page No.: 22
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 04:43
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	



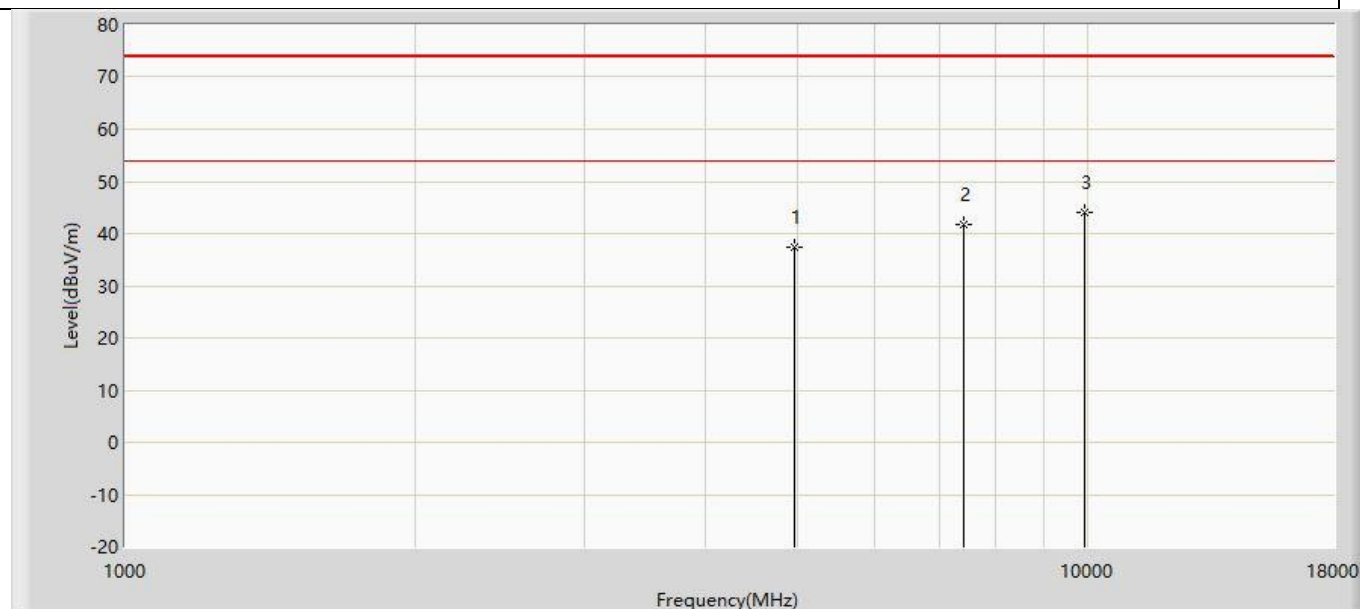
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4880.000	36.863	51.251	-37.137	74.000	-14.388	PK
2		7320.000	41.053	49.373	-32.947	74.000	-8.320	PK
3	*	9760.000	44.997	49.671	-29.003	74.000	-4.673	PK

Profile: 2250805R	Page No.: 23
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 04:43
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	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	36.954	51.074	-37.046	74.000	-14.120	PK
2		7440.000	42.393	50.228	-31.607	74.000	-7.834	PK
3	*	9920.000	45.511	49.582	-28.489	74.000	-4.071	PK

Profile: 2250805R	Page No.: 24
Engineer: YuLiu	
Site: AC5	Time: 2022/06/22 - 04:43
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	



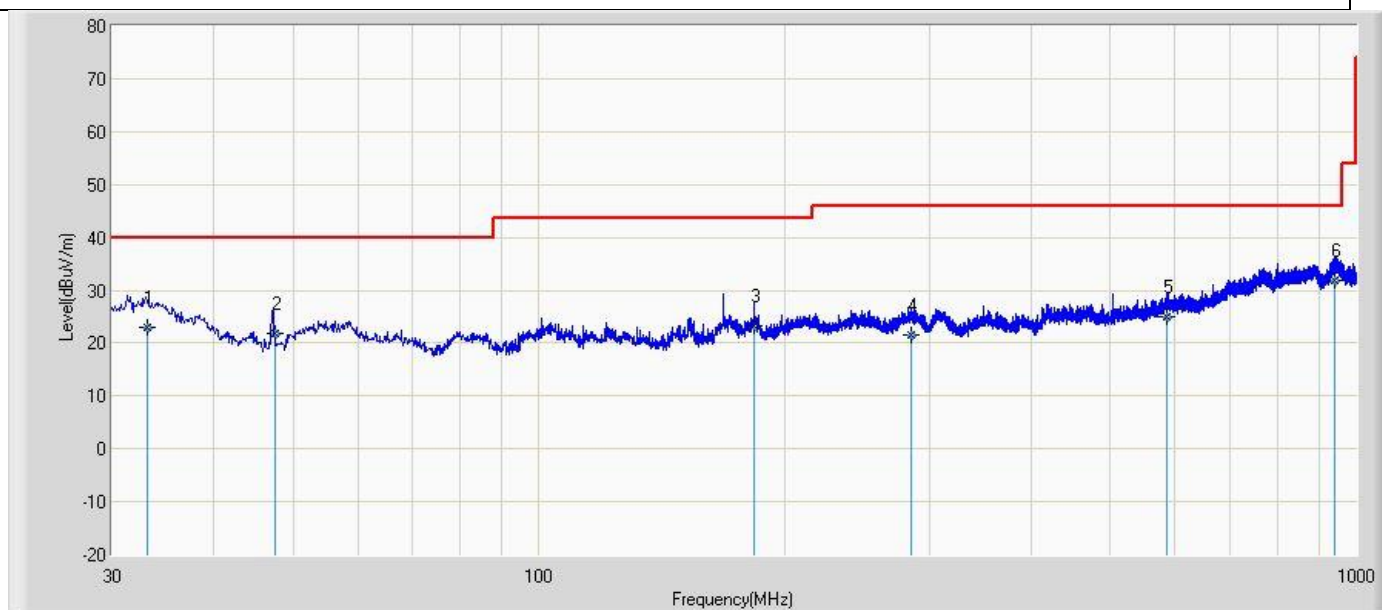
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4960.000	37.289	51.409	-36.711	74.000	-14.120	PK
2		7440.000	41.839	49.674	-32.161	74.000	-7.834	PK
3	*	9920.000	44.108	48.179	-29.892	74.000	-4.071	PK

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.: 41
Engineer: YuLiu	
Site: AC3	Time: 2022/06/20 - 20:51
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	

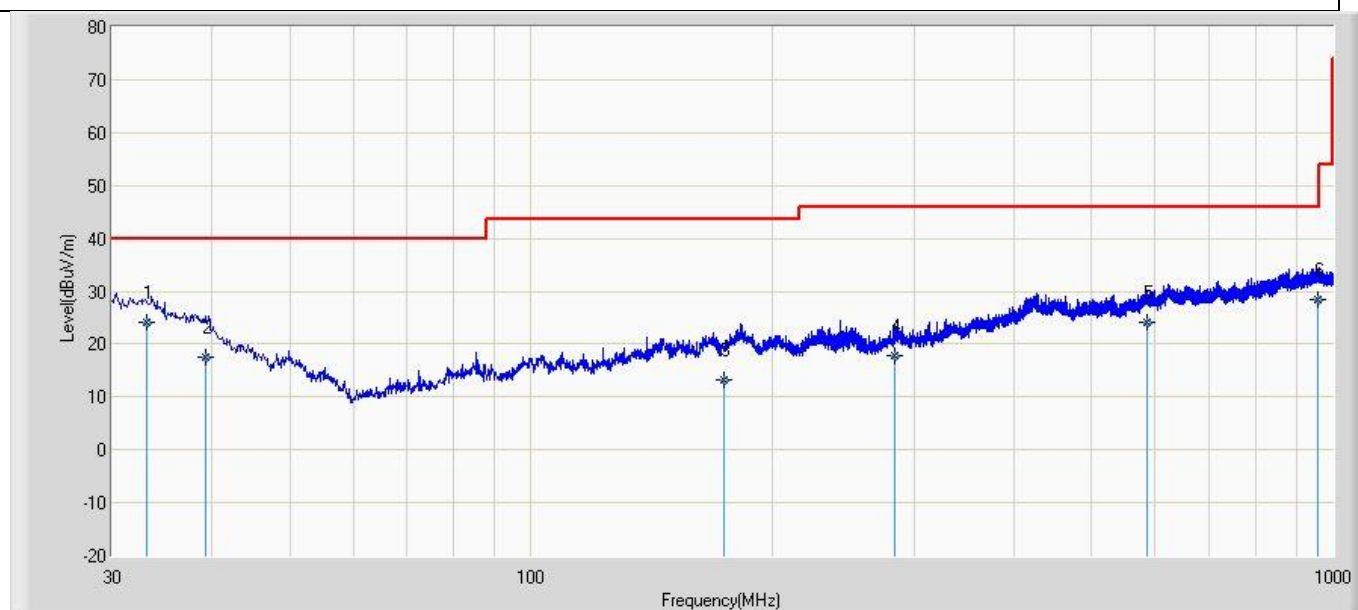


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		33.184	23.057	0.100	-16.943	40.000	16.603	6.354	0.000	158	265	QP
2		47.587	21.781	3.600	-18.219	40.000	11.722	6.459	0.000	265	224	QP
3		183.645	23.268	3.400	-20.232	43.500	12.762	7.106	0.000	102	223	QP
4		285.478	21.589	-3.100	-24.411	46.000	17.236	7.453	0.000	158	225	QP
5		586.875	25.031	-2.100	-20.969	46.000	18.869	8.263	0.000	158	265	QP
6	*	939.164	31.958	-2.100	-14.042	46.000	25.042	9.016	0.000	154	254	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.: 41
Engineer: YuLiu	
Site: AC3	Time: 2022/06/20 - 20:52
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	



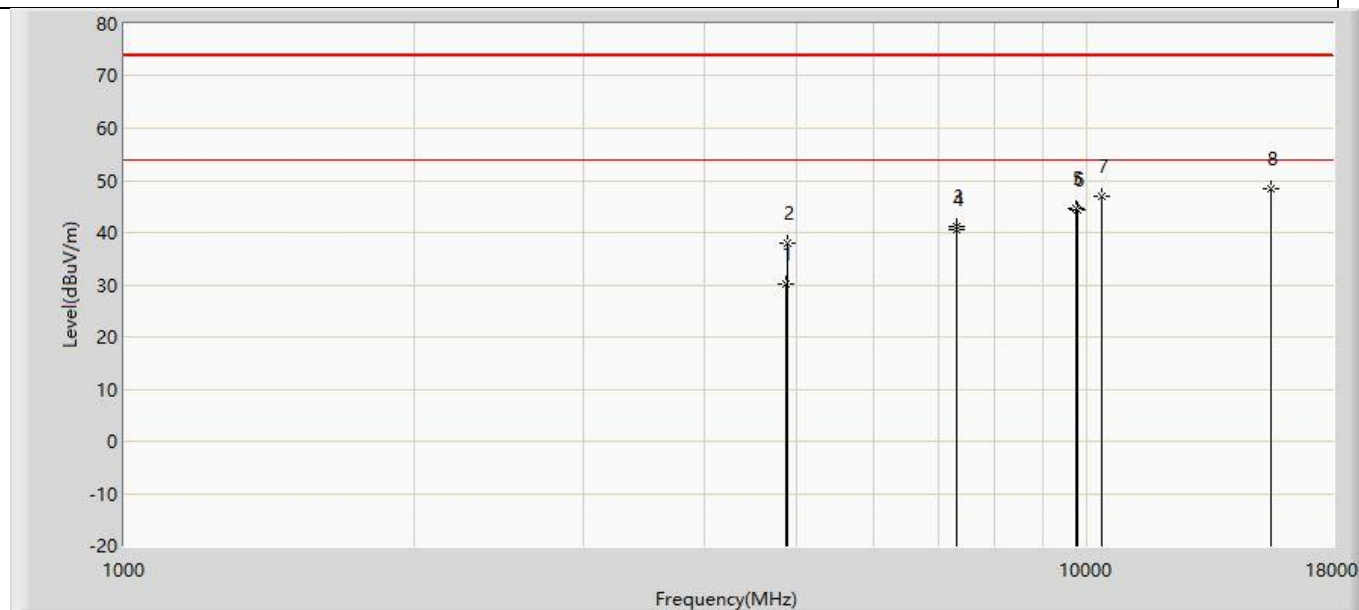
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1	*	33.158	24.056	-2.100	-15.944	40.000	19.803	6.354	0.000	116	228	QP
2		39.185	17.672	-5.100	-22.328	40.000	16.374	6.398	0.000	169	332	QP
3		174.258	13.333	-4.100	-30.167	43.500	10.363	7.070	0.000	126	284	QP
4		284.165	17.731	-3.200	-28.269	46.000	13.483	7.449	0.000	163	226	QP
5		586.365	24.130	-4.100	-21.870	46.000	19.970	8.260	0.000	165	223	QP
6		957.165	28.498	-4.100	-17.502	46.000	23.543	9.055	0.000	165	201	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).

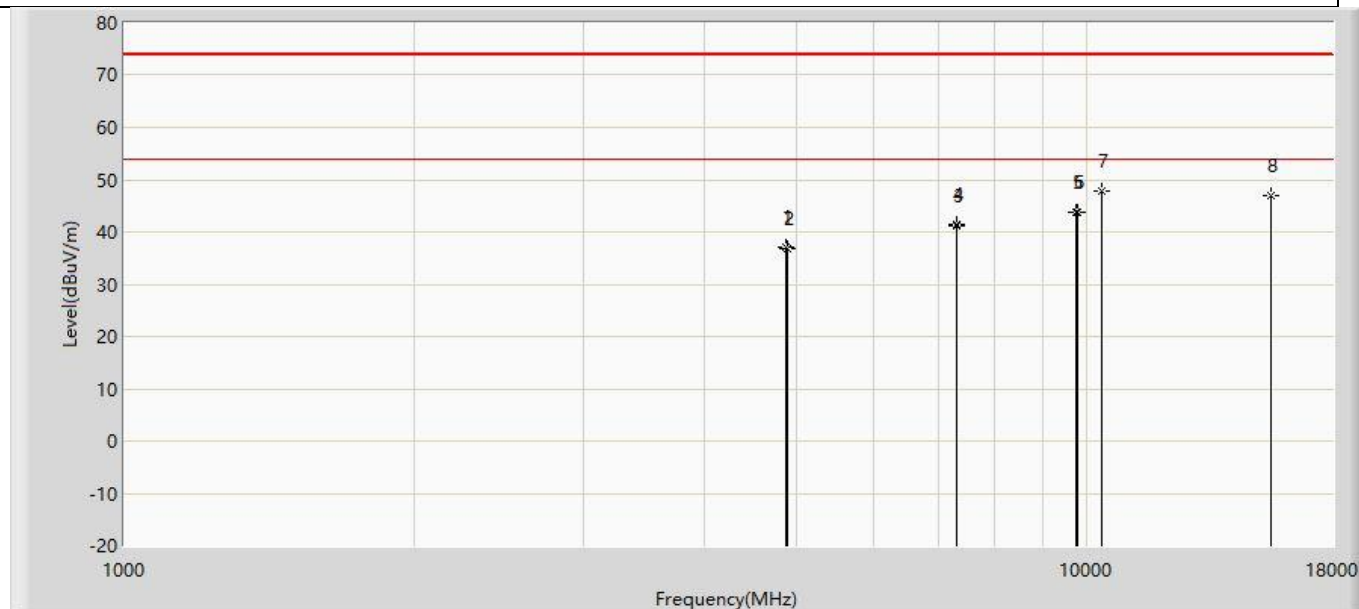
The worst case of Simultaneous Radiated Emission:

Profile: 2250805R	Page No.: 7
Engineer: YuLiu	
Site: AC5	Time: 2022/07/04 - 09:30
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 BLE 2440MHz+ WIFI 2437MHz+WIFI 5180MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	30.037	44.477	-43.963	74.000	-14.440	PK
2		4880.000	37.915	52.303	-36.085	74.000	-14.388	PK
3		7311.000	41.274	49.573	-32.726	74.000	-8.299	PK
4		7320.000	40.673	48.993	-33.327	74.000	-8.320	PK
5		9748.000	44.769	49.447	-29.231	74.000	-4.677	PK
6		9760.000	44.477	49.151	-29.523	74.000	-4.673	PK
7		10360.000	46.848	49.834	-27.152	74.000	-2.986	PK
8	*	15540.000	48.523	50.374	-25.477	74.000	-1.851	PK

Profile: 2250805R	Page No.: 8
Engineer: YuLiu	
Site: AC5	Time: 2022/07/04 - 09:30
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 BLE 2440MHz+WIFI 2437MHz+ WIFI 5180MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	37.069	51.509	-36.931	74.000	-14.440	PK
2		4880.000	36.869	51.257	-37.131	74.000	-14.388	PK
3		7311.000	41.201	49.500	-32.799	74.000	-8.299	PK
4		7320.000	41.476	49.796	-32.524	74.000	-8.320	PK
5		9748.000	43.765	48.443	-30.235	74.000	-4.677	PK
6		9760.000	43.737	48.411	-30.263	74.000	-4.673	PK
7	*	10360.000	47.694	50.680	-26.306	74.000	-2.986	PK
8		15540.000	47.079	48.930	-26.921	74.000	-1.851	PK

4.3 Emissions in non-restricted frequency band

VERDICT: PASS

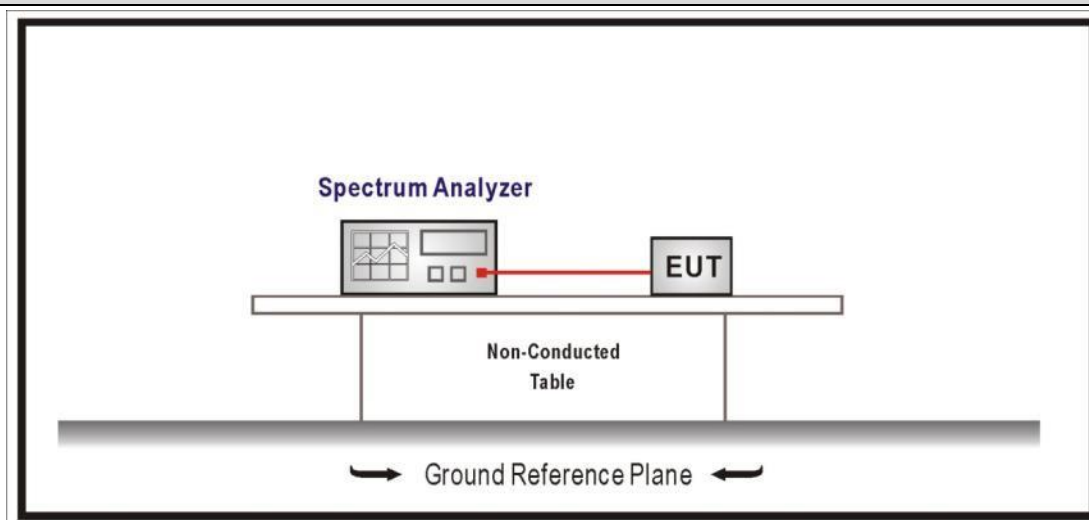
4.3.1 Limit

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

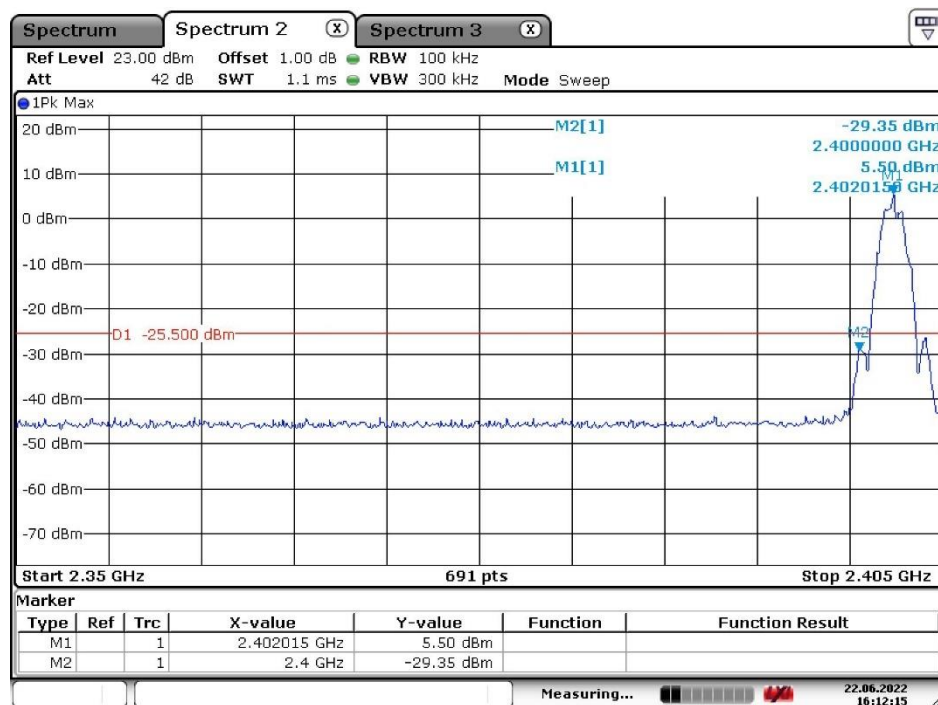
References Rule	Chapter	Description
☒ ANSI C63.10	11.11	Emissions in non-restricted frequency bands
☒ ANSI C63.10	11.11.1	General
☒ ANSI C63.10	11.11.2	Reference level measurement
☒ ANSI C63.10	11.11.3	Emission level measurement

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	5.50	2400	-29.35	34.85	≥30	Pass
	39	2480	3.68	2500	-46.04	49.72	≥30	Pass

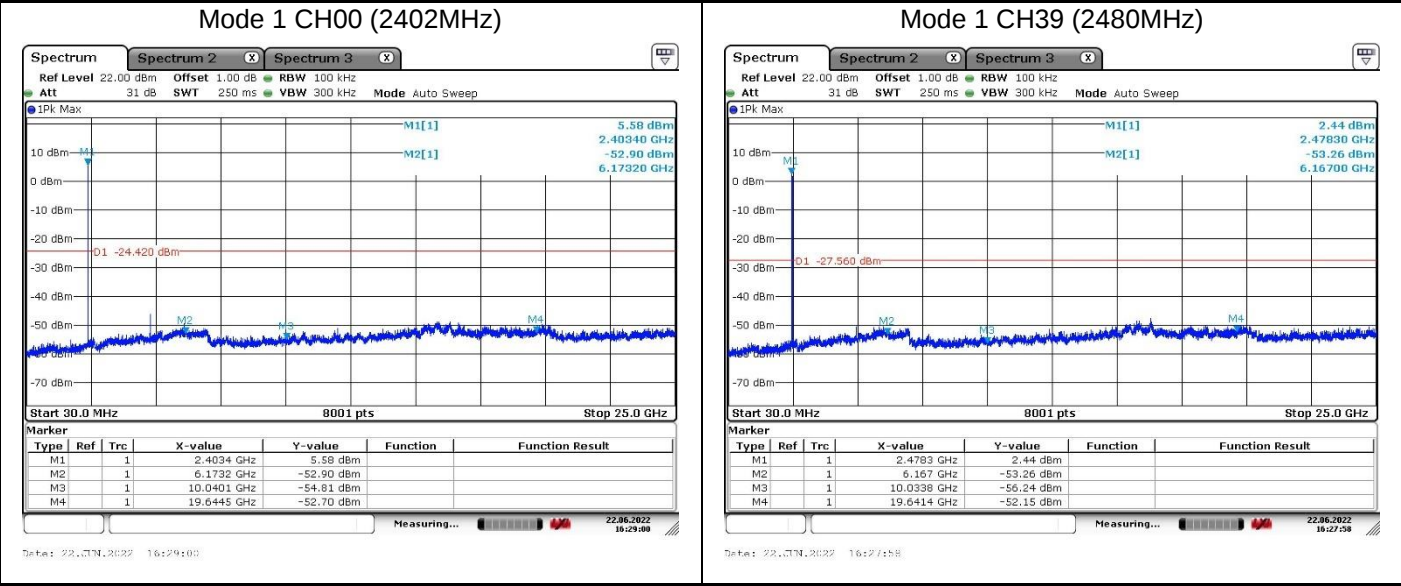
Note: The worst case of emissions in non-restricted frequency bands as below:

Mode 1 CH00(2402MHz)



Date: 22.JUN.2022 16:12:15

The data of entire corresponding spectrum:



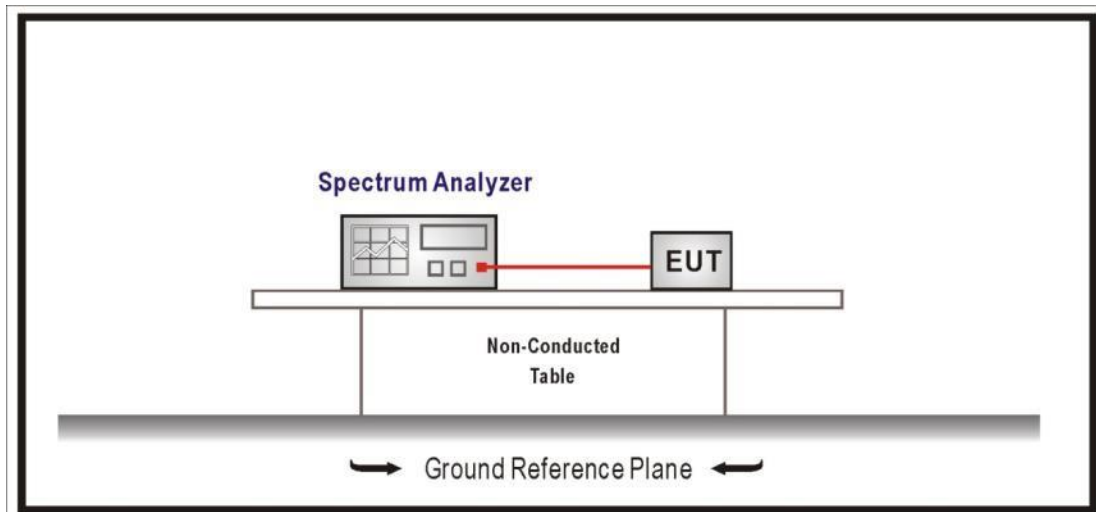
4.4 Duty cycle

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

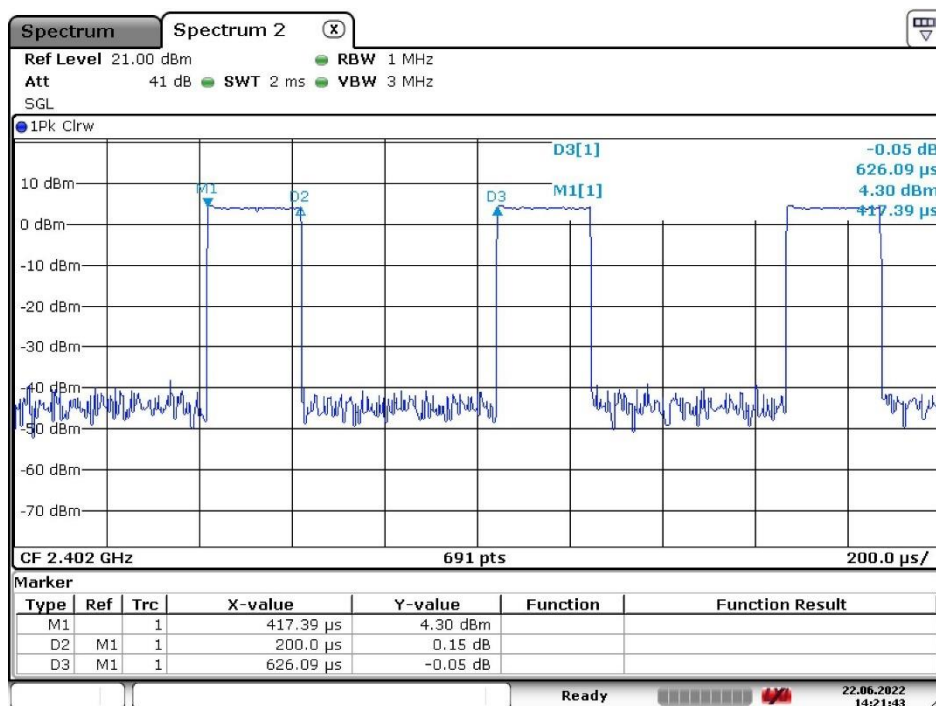
4.4.4 Test Data

Test Mode	Tx On (us)	Tx Off (us)	VBW (kHz)	Tx On + Tx Off (us)	Duty Cycle (%)
Mode 1	200	426.09	5	626.09	31.94

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: $VBW \geq 1/T$ will be used.

Mode 1 CH19 2440MHz

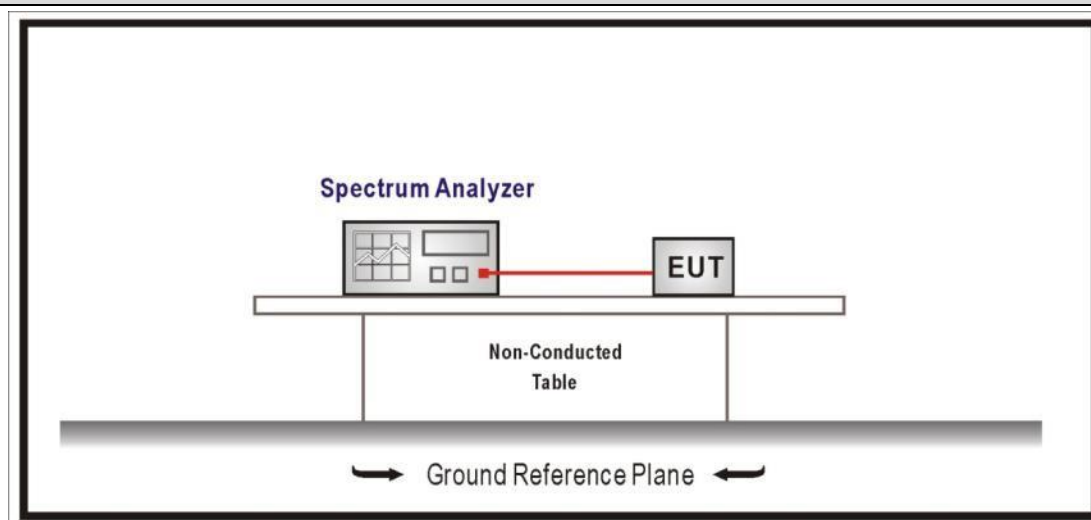


Date: 22.JUN.2022 14:21:44

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	PK	74	1	3
2483.5-2500	AV	54	1	3

Note: The field strength of emissions appearing within these frequency bands shall not exceed the limits.

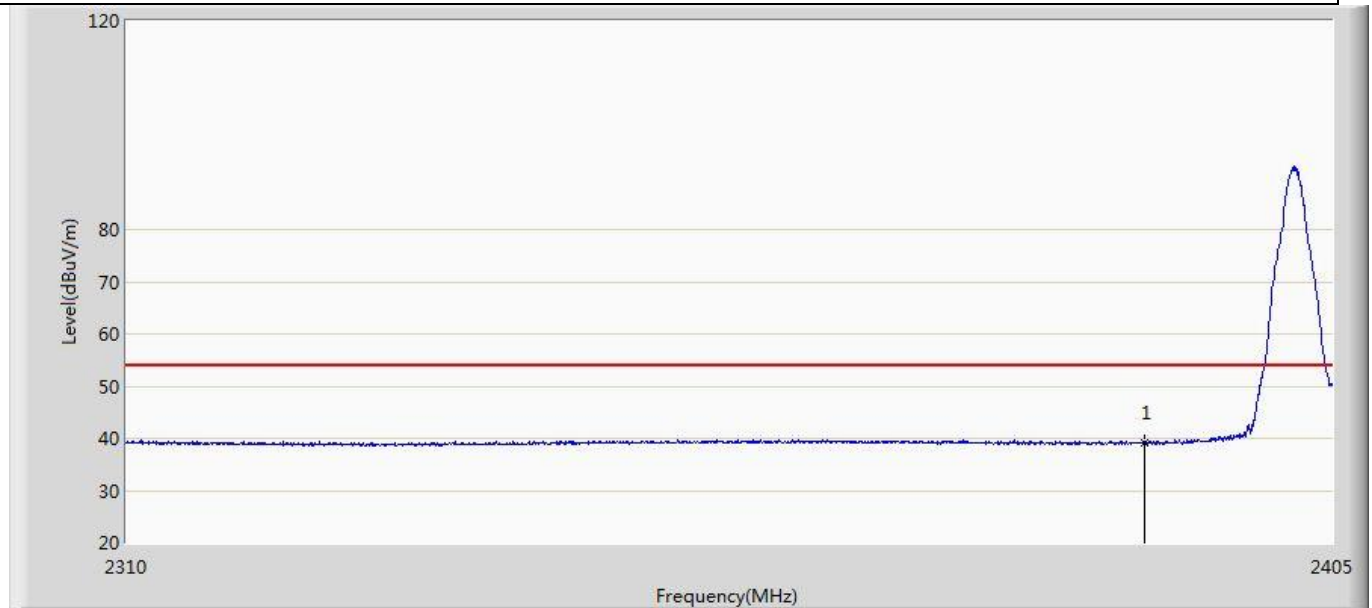
4.5.2 Test Setup**4.5.3 Test Procedure**

	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

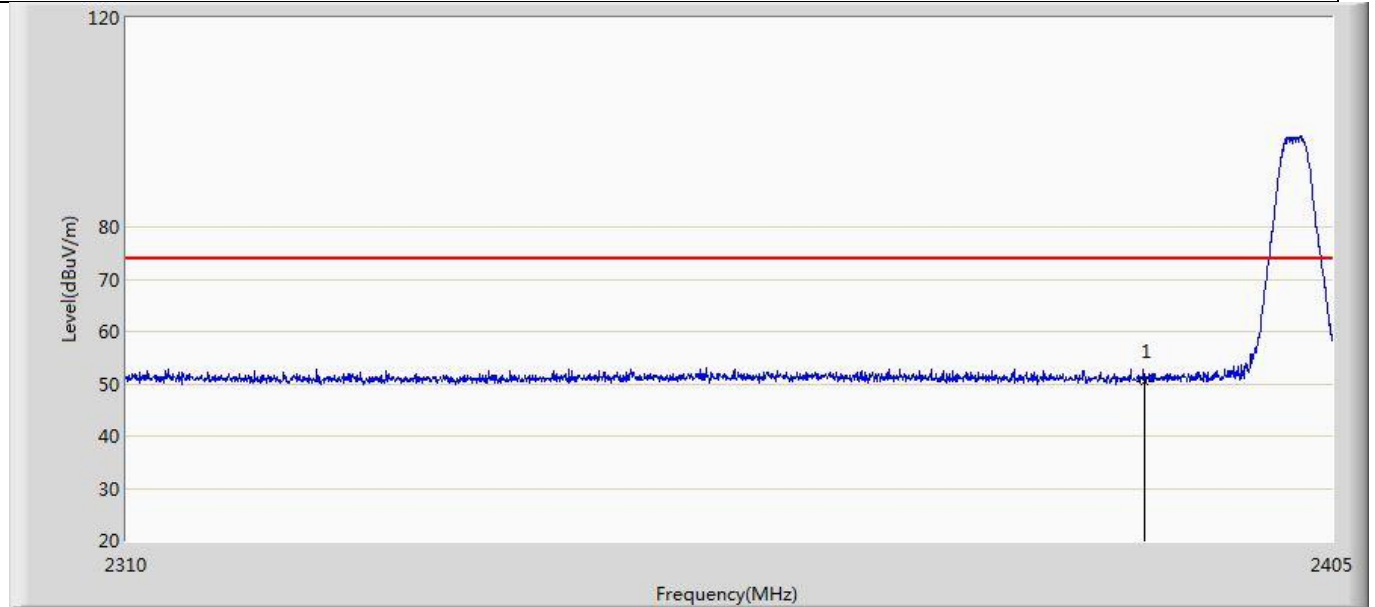
Left Antenna:

Profile: 2250805R	Page No.: 1
Engineer: YuLiu	
Site: AC5	Time: 2022/06/15 - 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 BLE_2M	



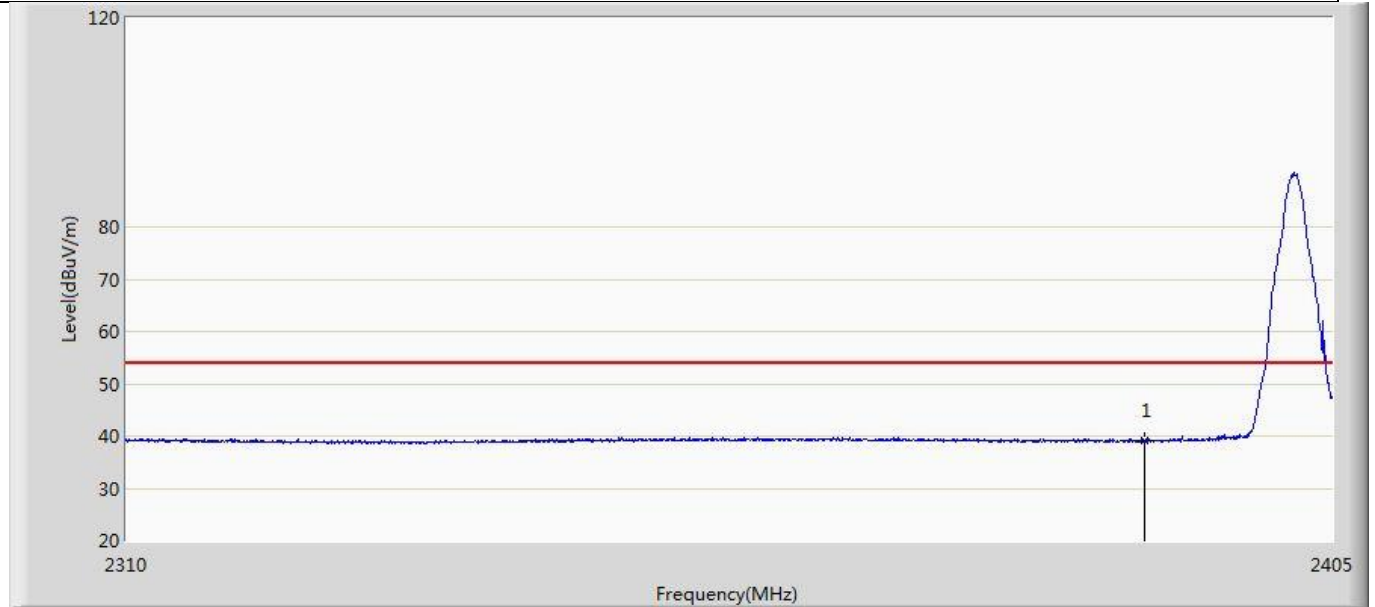
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	39.247	3.149	-14.753	54.000	36.098	AV

Profile: 2250805R	Page No.: 2
Engineer: YuLiu	
Site: AC5	Time: 2022/06/15 - 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 BLE_2M	



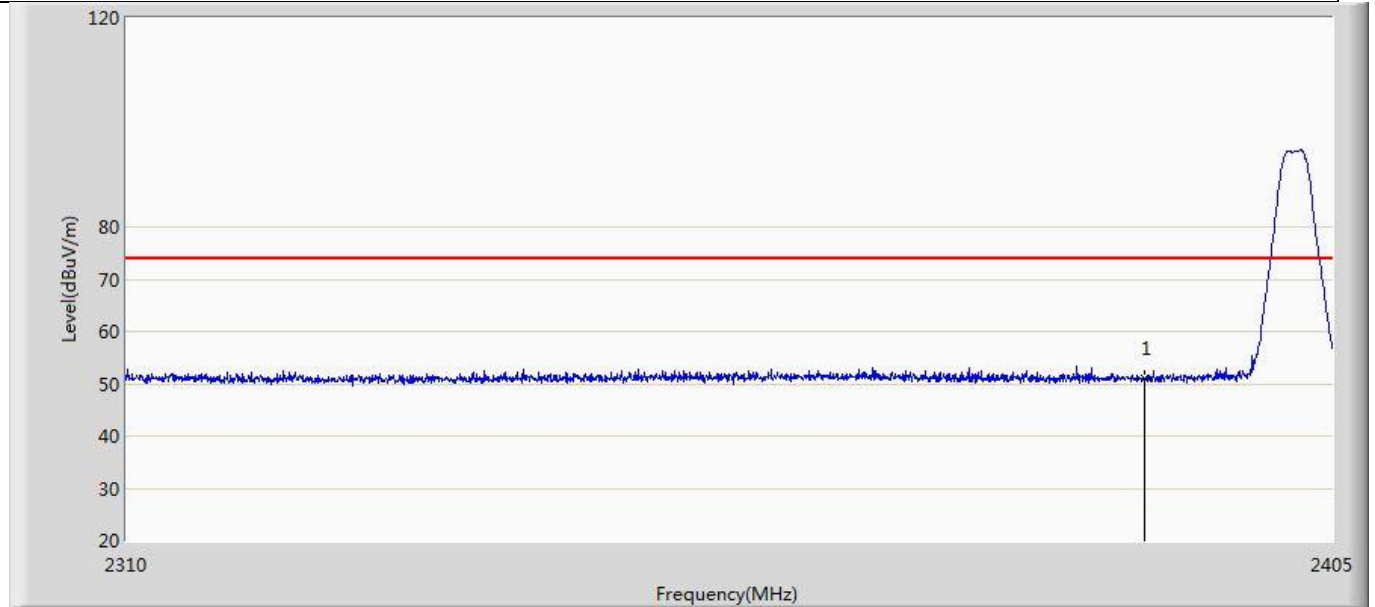
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	50.525	14.427	-23.475	74.000	36.098	PK

Profile: 2250805R	Page No.: 3
Engineer: YuLiu	
Site: AC5	Time: 2022/06/15 - 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 BLE_2M	



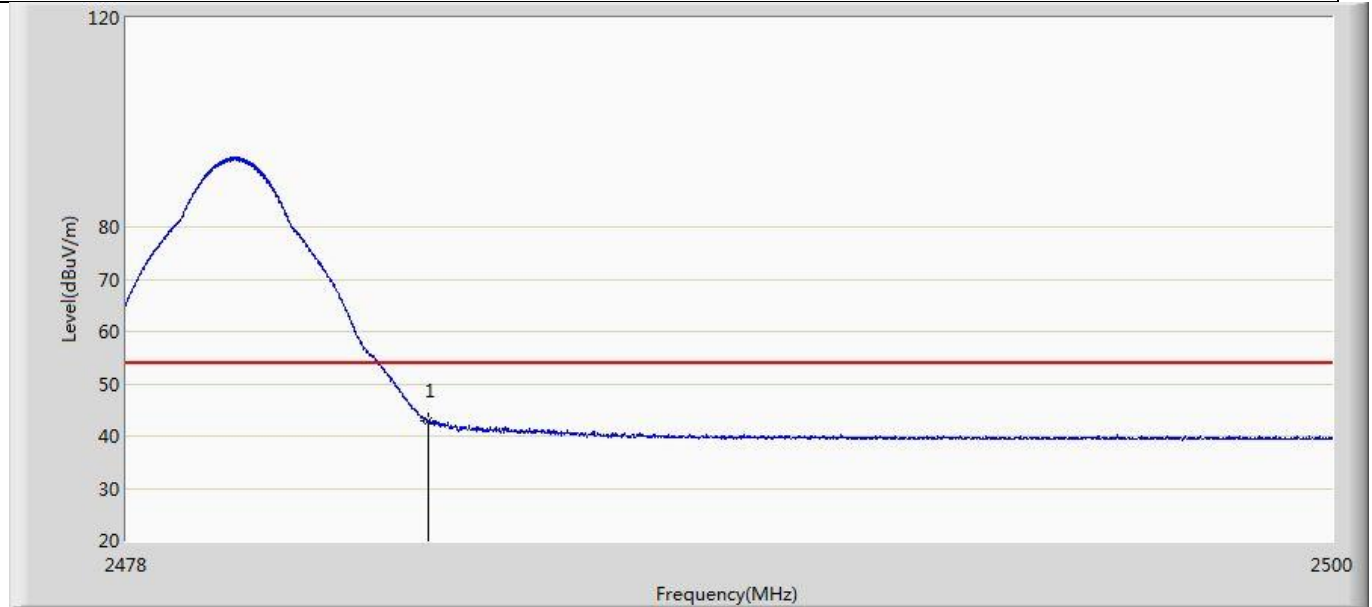
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	39.170	3.072	-14.830	54.000	36.098	AV

Profile: 2250805R	Page No.: 4
Engineer: YuLiu	
Site: AC5	Time: 2022/06/15 - 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 BLE_2M	



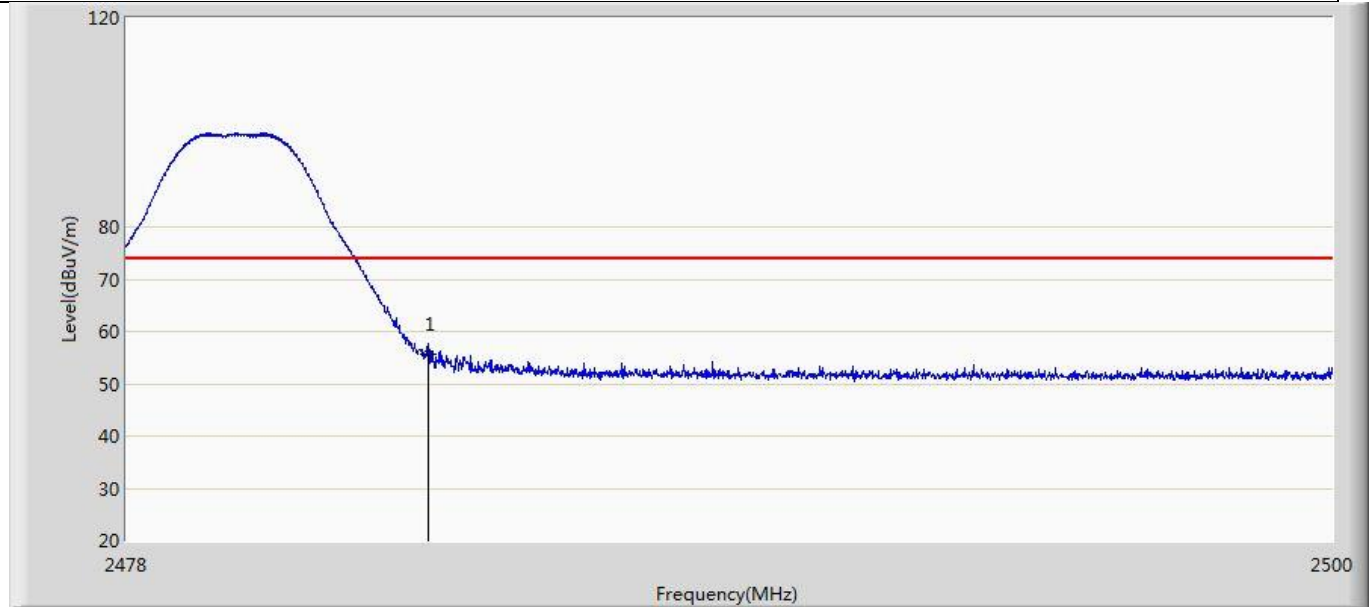
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	50.981	14.883	-23.019	74.000	36.098	PK

Profile: 2250805R	Page No.: 5
Engineer: YuLiu	
Site: AC5	Time: 2022/06/15 - 04:30
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 BLE_2M	



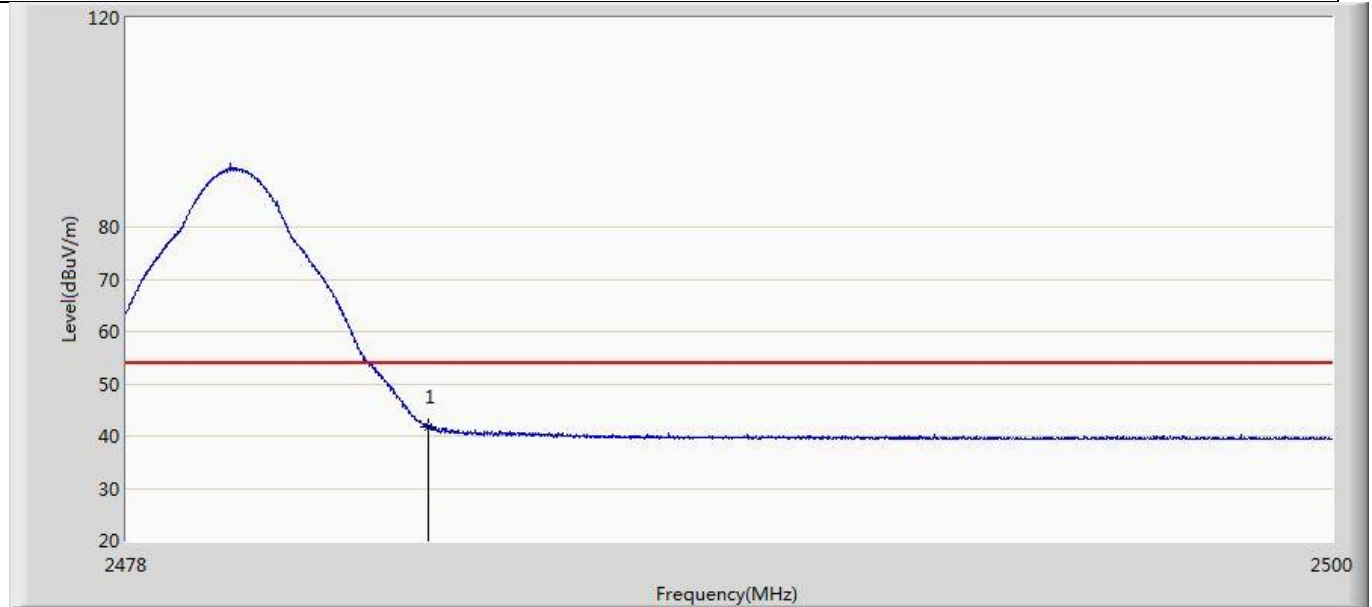
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	42.910	6.689	-11.090	54.000	36.220	AV

Profile: 2250805R	Page No.: 6
Engineer: YuLiu	
Site: AC5	Time: 2022/06/15 - 21:30
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 BLE_2M	



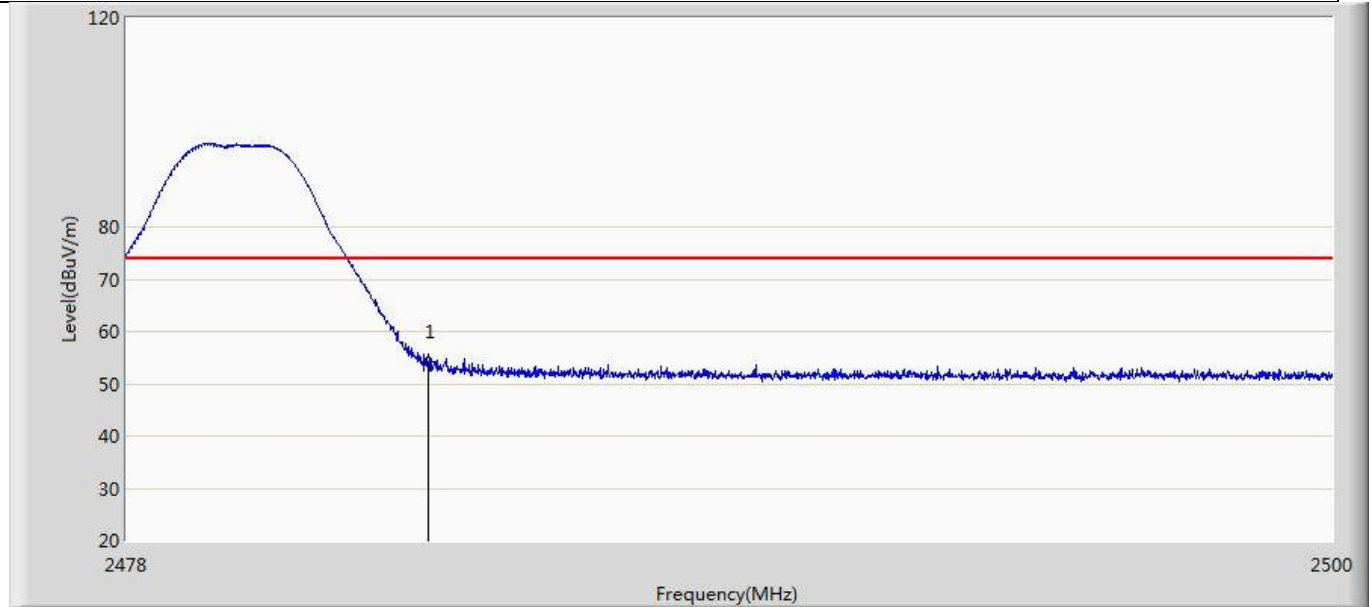
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	55.698	19.477	-18.302	74.000	36.220	PK

Profile: 2250805R	Page No.: 7
Engineer: YuLiu	
Site: AC5	Time: 2022/06/15 - 21:30
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 BLE_2M	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	41.646	5.425	-12.354	54.000	36.220	AV

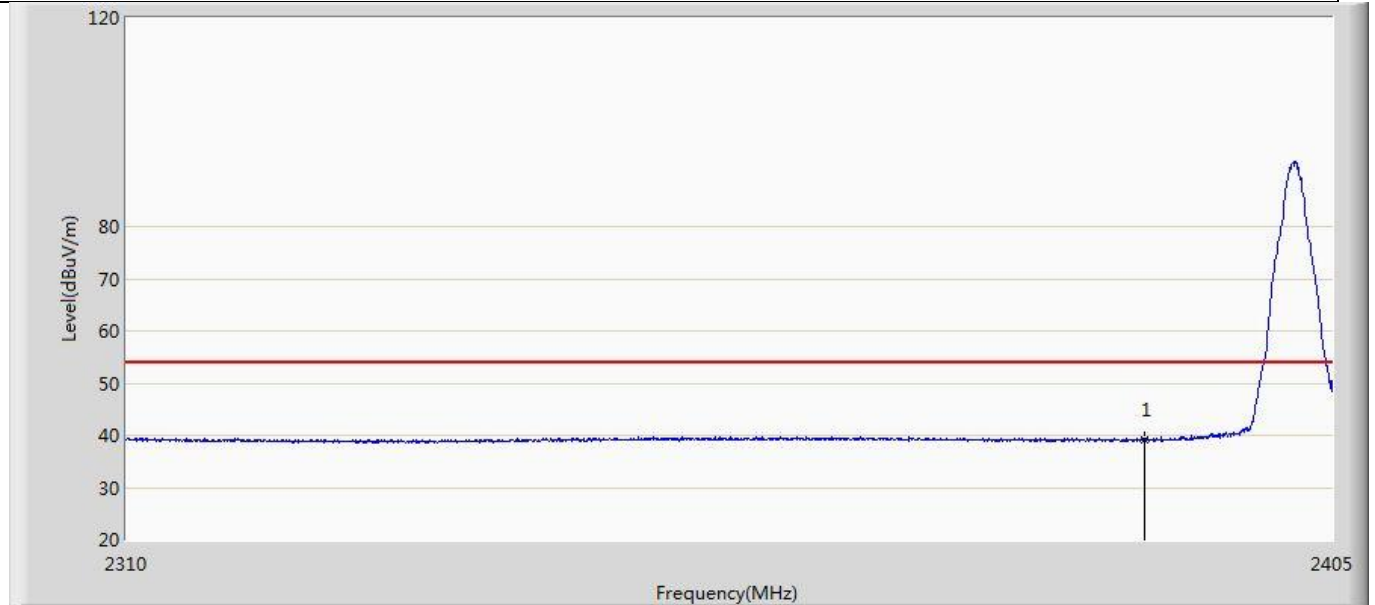
Profile: 2250805R	Page No.: 8
Engineer: YuLiu	
Site: AC5	Time: 2022/06/15 - 21:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: VR ALL-IN-ONE HEADSET	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2480MHz BLE_2M	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	54.066	17.845	-19.934	74.000	36.220	PK

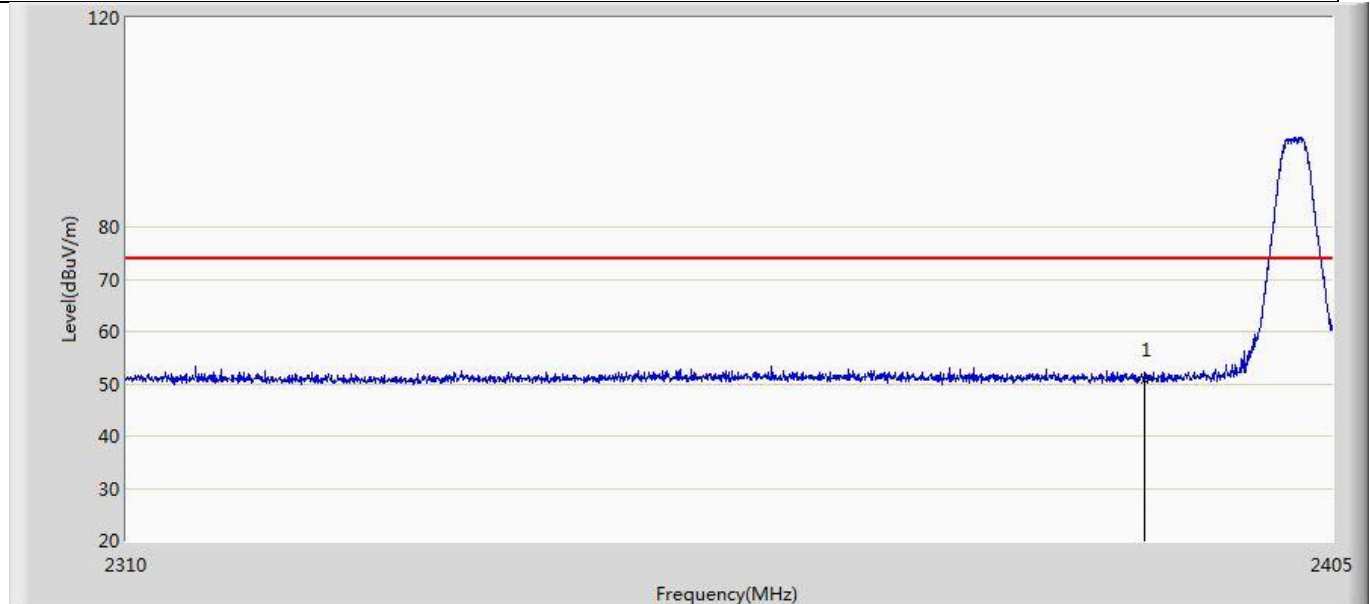
Right Antenna:

Profile: 2250805R	Page No.: 1
Engineer: YuLiu	
Site: AC5	Time: 2022/06/15 - 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 BLE_2M	



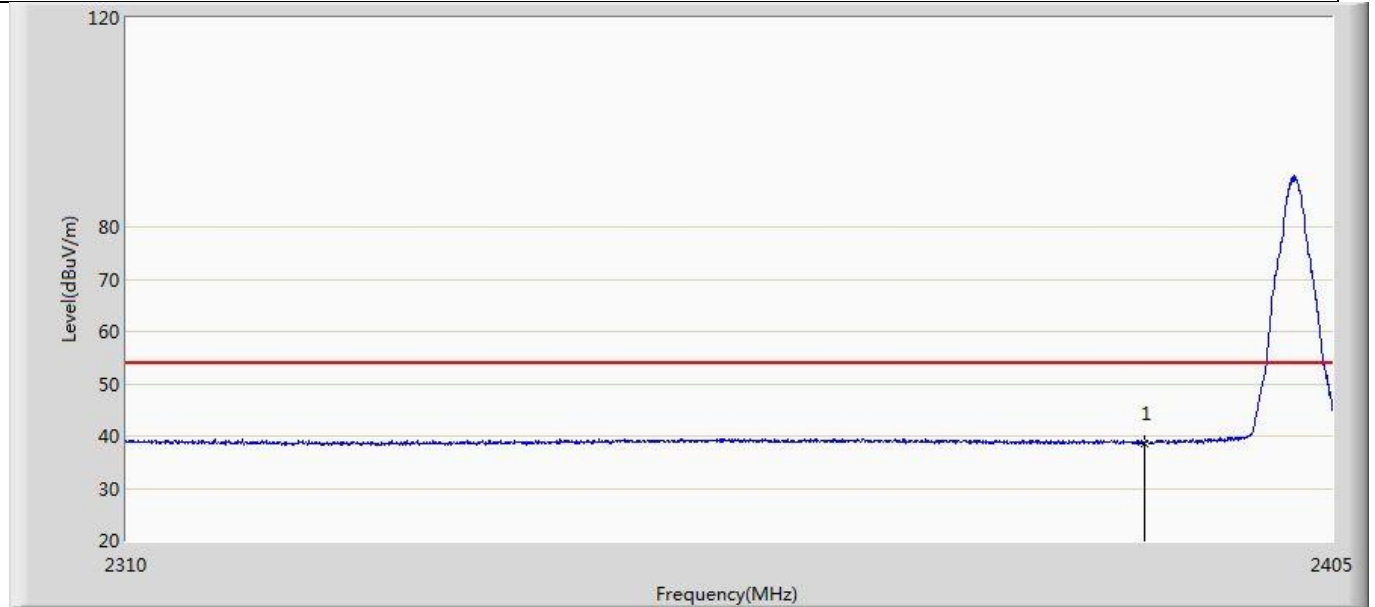
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	39.096	2.998	-14.904	54.000	36.098	AV

Profile: 2250805R	Page No.: 2
Engineer: YuLiu	
Site: AC5	Time: 2022/06/15 - 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 BLE_2M	



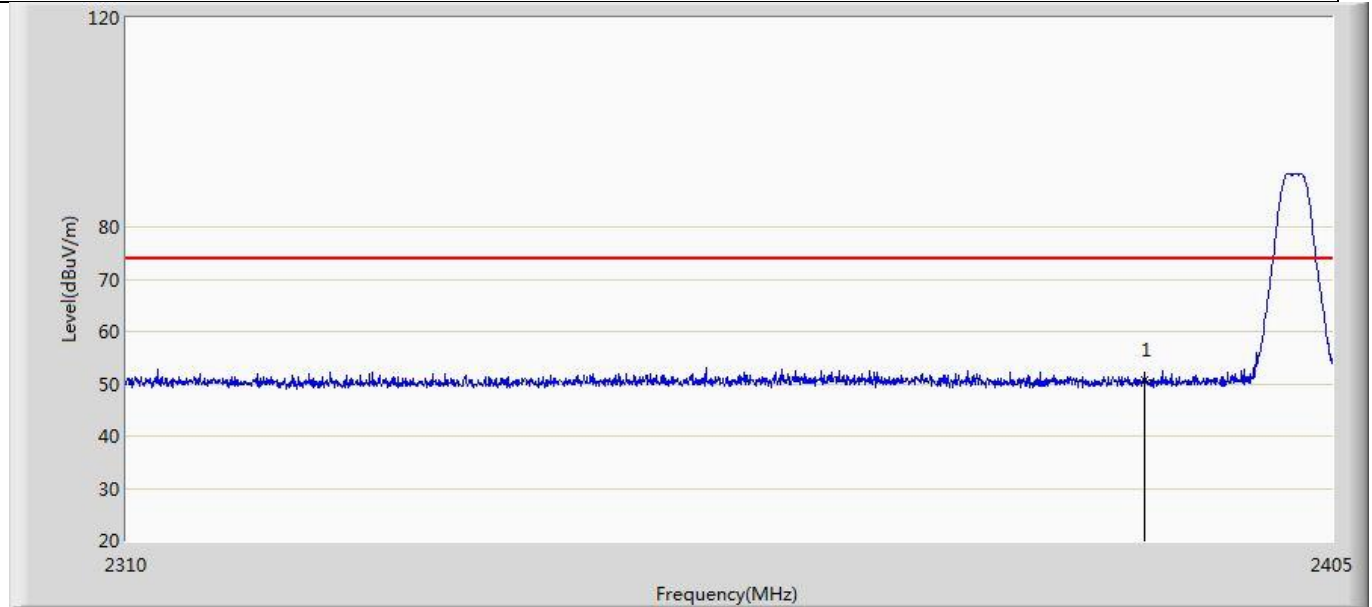
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	50.607	14.509	-23.393	74.000	36.098	PK

Profile: 2250805R	Page No.: 3
Engineer: YuLiu	
Site: AC5	Time: 2022/06/15 - 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 BLE_2M	



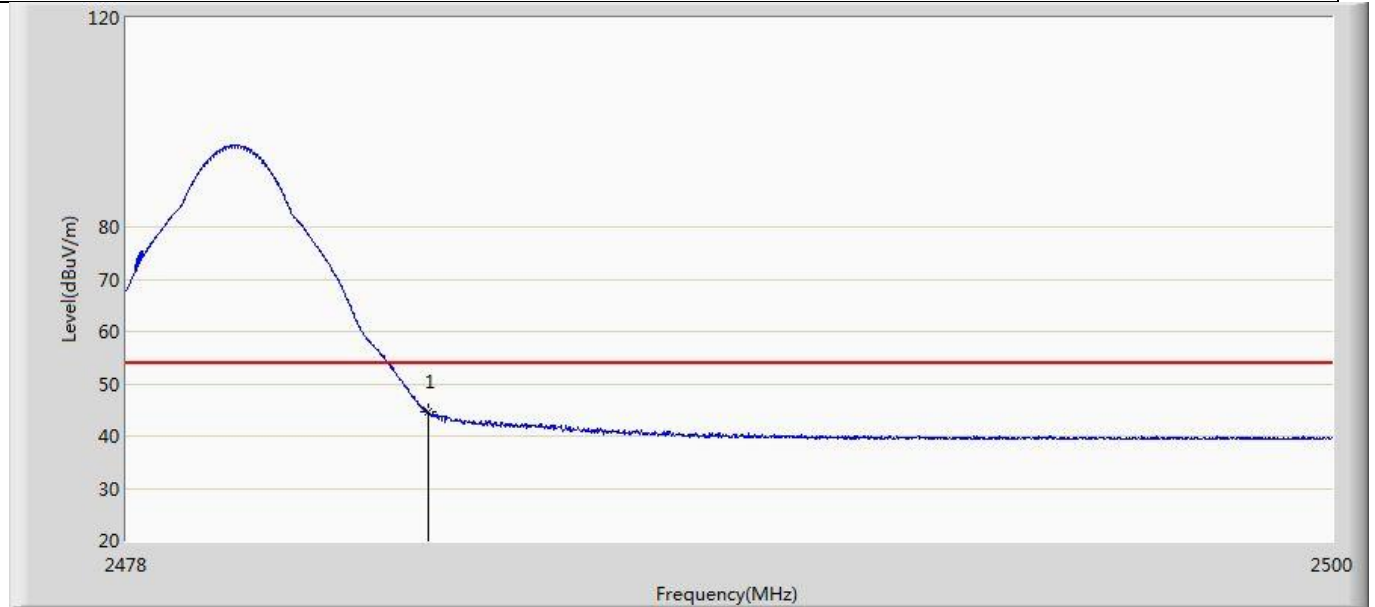
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	38.644	2.546	-15.356	54.000	36.098	AV

Profile: 2250805R	Page No.: 4
Engineer: YuLiu	
Site: AC5	Time: 2022/06/15 - 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 BLE_2M	



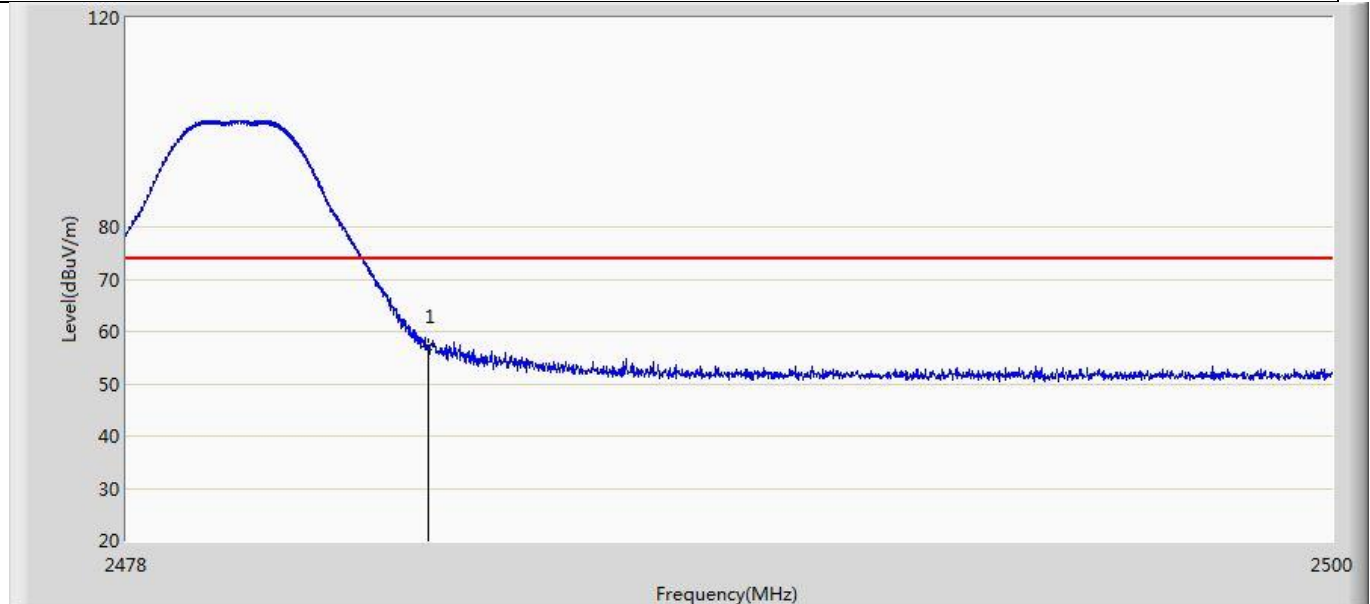
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	50.740	14.642	-23.260	74.000	36.098	PK

Profile: 2250805R	Page No.: 5
Engineer: YuLiu	
Site: AC5	Time: 2022/06/15 - 04:30
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 BLE_2M	



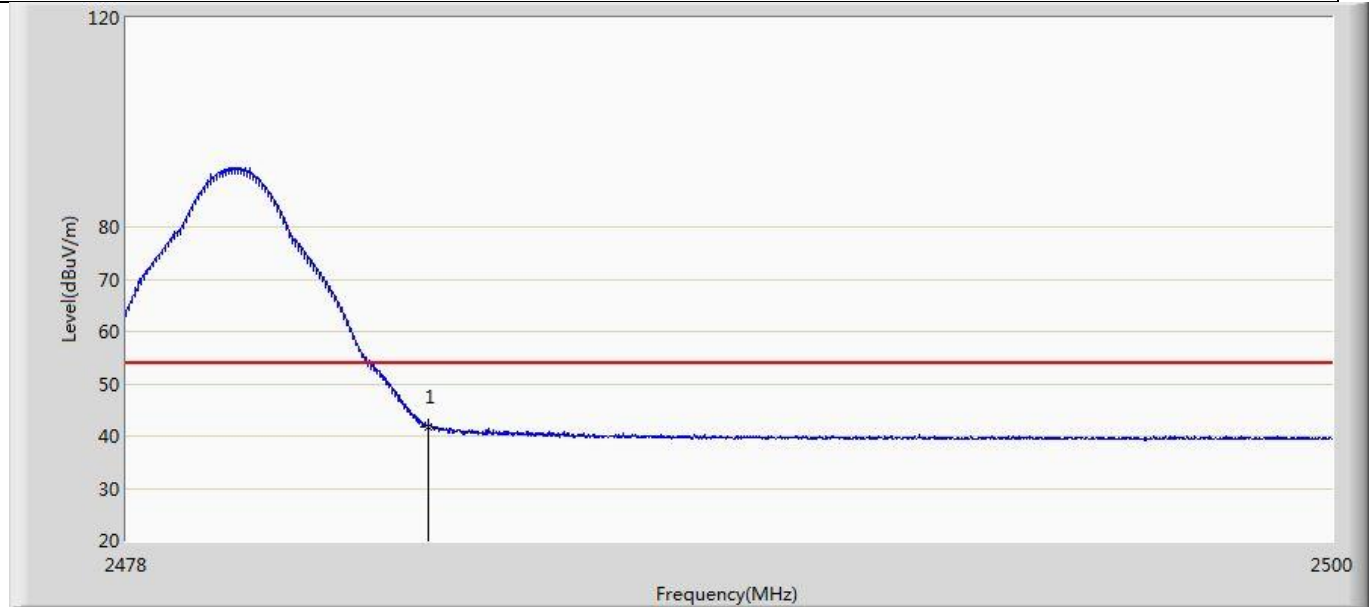
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	44.500	8.279	-9.500	54.000	36.220	AV

Profile: 2250805R	Page No.: 6
Engineer: YuLiu	
Site: AC5	Time: 2022/06/15 - 21:30
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 BLE_2M	



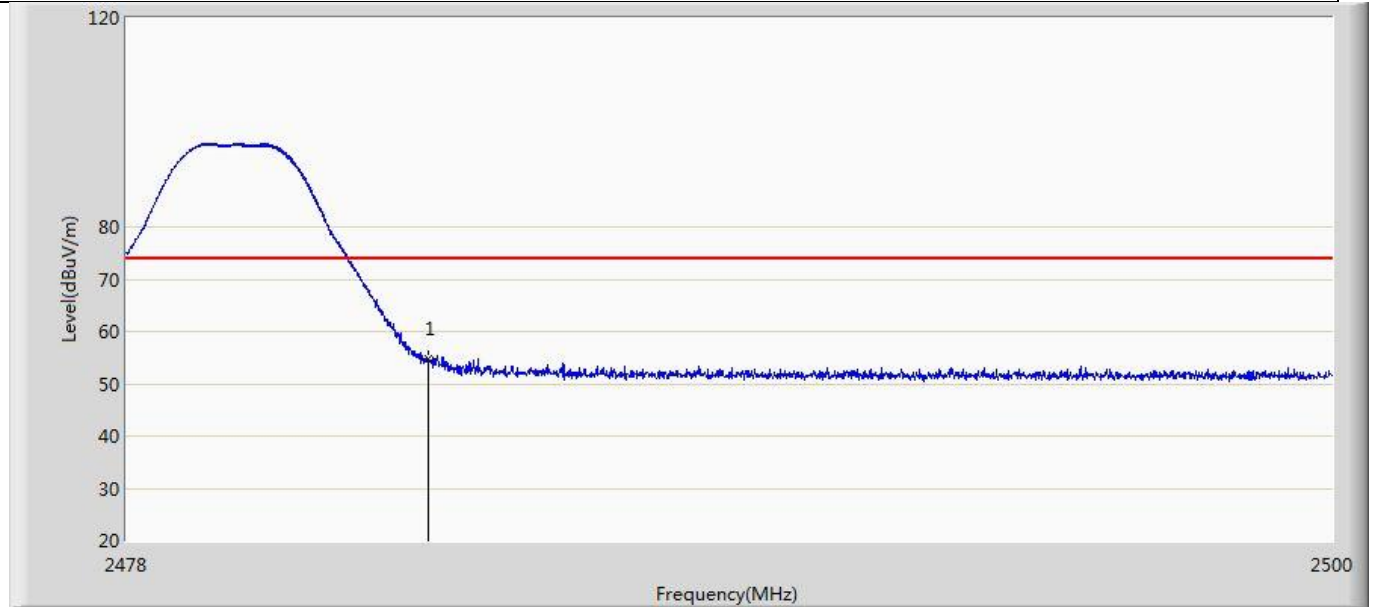
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	56.990	20.769	-17.010	74.000	36.220	PK

Profile: 2250805R	Page No.: 7
Engineer: YuLiu	
Site: AC5	Time: 2022/06/15 - 21:30
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 BLE_2M	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	41.622	5.401	-12.378	54.000	36.220	AV

Profile: 2250805R	Page No.: 8
Engineer: YuLiu	
Site: AC5	Time: 2022/06/15 - 21:30
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 BLE_2M	

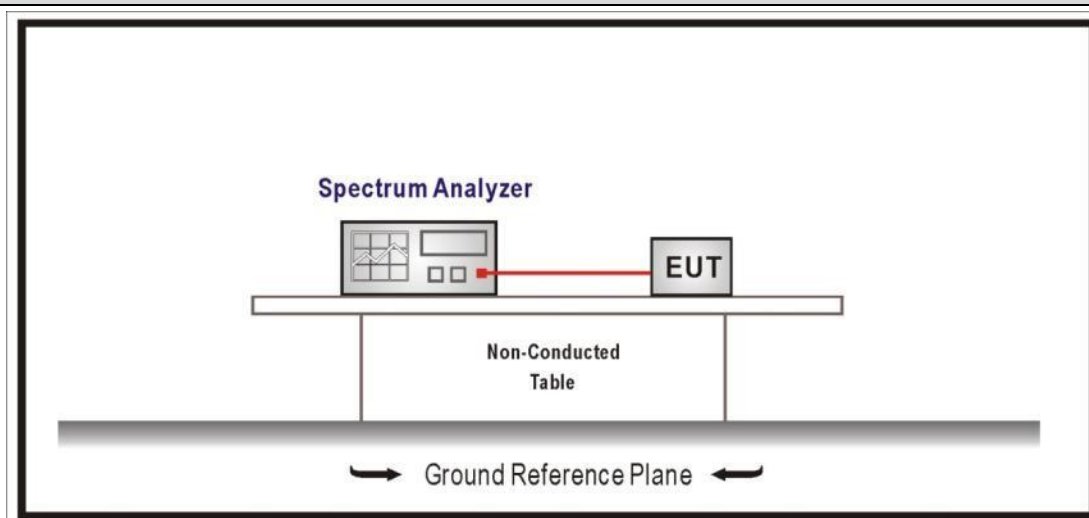


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	54.845	18.624	-19.155	74.000	36.220	PK

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 the 2400-2483.5 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

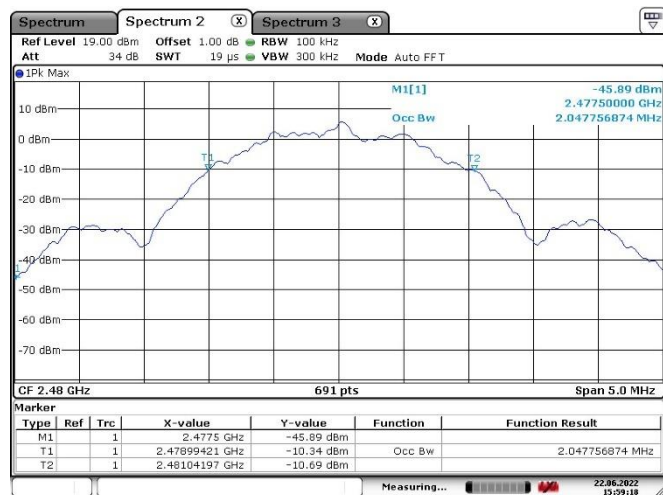
4.6.4 Test Data

Mode	CH.	Test Freq. (MHz)	99% Occupied Bandwidth (MHz)	6dB Occupied Bandwidth (MHz)	Limit (kHz)	Result
1	00	2402	2.04	1.15	>500	Pass
	19	2440	2.04	1.16	>500	Pass
	39	2480	2.05	1.15	>500	Pass

Note : The worst case of Occupied Bandwidth as below:

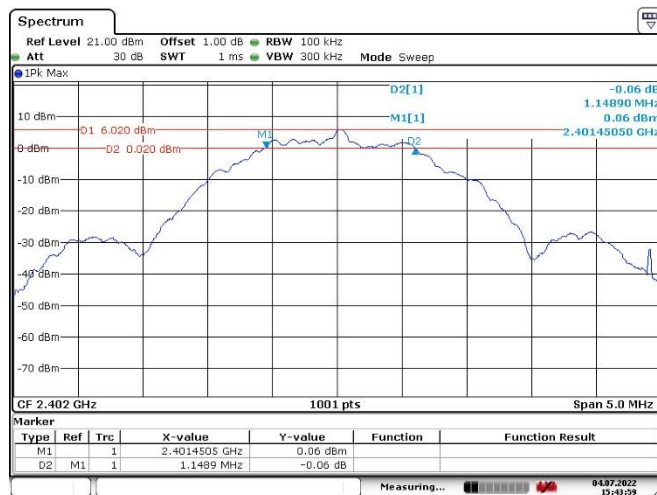
99% Occupied Bandwidth

Mode 1 CH39 (2480MHz)



6dB Occupied Bandwidth

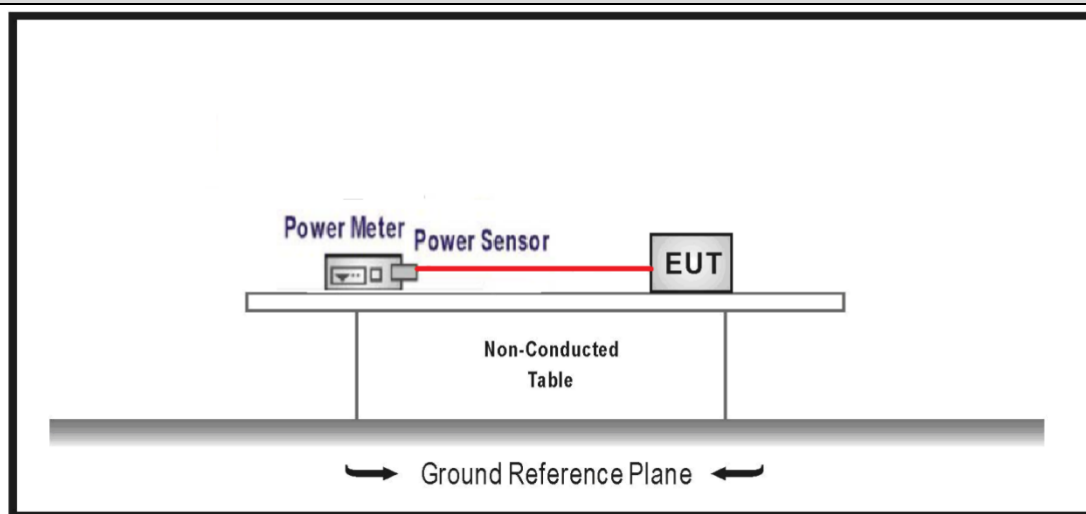
Mode 1 CH00(2402MHz)



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

Left Antenna:

Mode	Channel	Test Frequency (MHz)	Conducted Power (dBm)	EIRP (dBm)	Conducted Power Limit (dBm)	EIRP Limit (dBm)	Result
Mode 1	00	2402	5.53	8.26	≤30	≤36	Pass
	19	2440	5.71	8.44	≤30	≤36	Pass
	39	2480	5.74	8.47	≤30	≤36	Pass

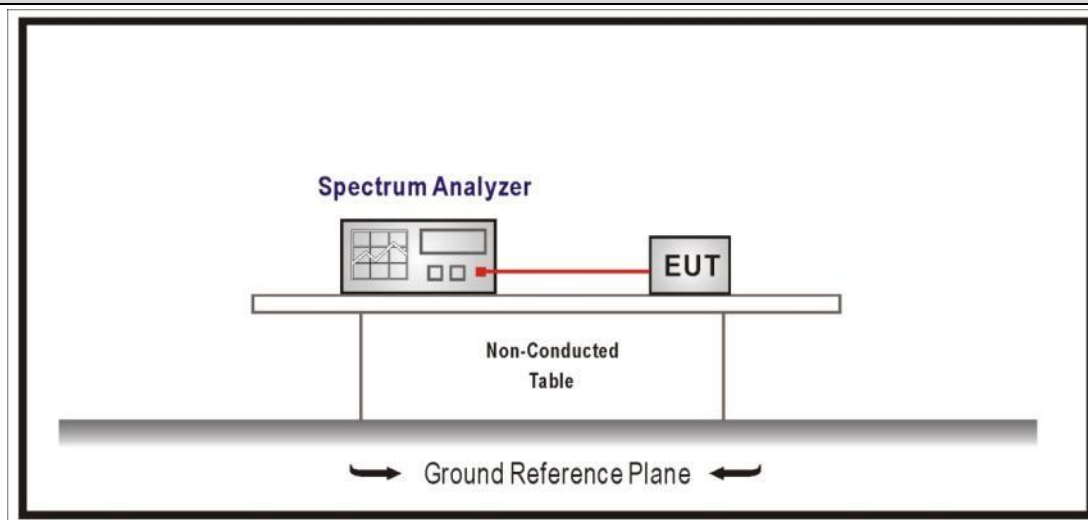
Right Antenna:

Mode	Channel	Test Frequency (MHz)	Conducted Power (dBm)	EIRP (dBm)	Conducted Power Limit (dBm)	EIRP Limit (dBm)	Result
Mode 1	00	2402	5.51	8.24	≤30	≤36	Pass
	19	2440	5.62	8.35	≤30	≤36	Pass
	39	2480	5.79	8.52	≤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 $\leq 8\text{dBm}/3\text{kHz}$ **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 $\geq 98\%$)
	☐	ANSI C63.10	11.10.4	Method AVGPSD-1A(Duty cycle $\geq 98\%$)
	☒	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

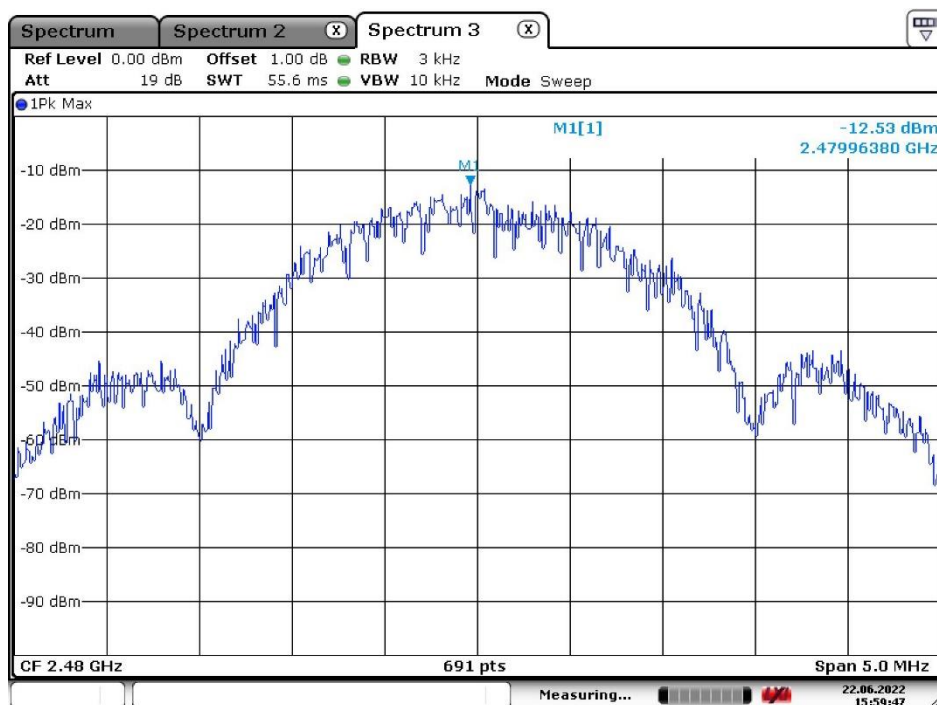
4.8.4 Test Data

Left Antenna:

Mode	Channel	Test Frequency (MHz)	Measurement PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
Mode 1	00	2402	-12.65	≤8	Pass
	19	2440	-12.67	≤8	Pass
	39	2480	-12.53	≤8	Pass

Note : The worst case of PSD as below:

Mode 1 CH39(2402MHz)



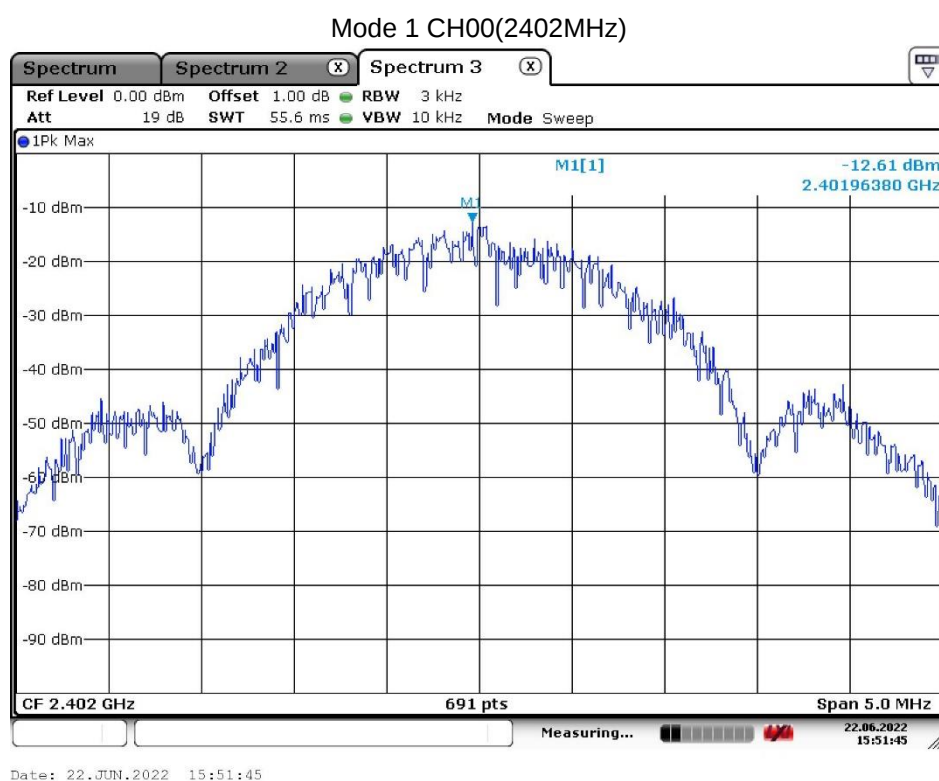
Date: 22.JUN.2022 15:59:47

Note: We used the peak detector test result below the limit of 20db, so did not use the RMS detector.

Right Antenna:

Mode	Channel	Test Frequency (MHz)	Measurement PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
Mode 1	00	2402	-12.61	≤8	Pass
	19	2440	-12.62	≤8	Pass
	39	2480	-12.77	≤8	Pass

Note : The worst case of PSD as below:



Note: We used the peak detector test result below the limit of 20db, 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 _____