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Report No.: 1705RSU04201 Report Version: V01 Issue Date: 06-07-2017

# **MEASUREMENT REPORT**

# FCC PART 15.247 Bluetooth BLE

**FCC ID** : 2Al3G-A7210

**APPLICANT**: Pico Technology Co., Ltd.

**Application Type** : Certification

**Product** : VR All-In-One Headset

**Model No.** : A7210

Brand Name : OPICO

FCC Classification : Digital Transmission System (DTS)

FCC Rule Part(s) : Part 15 Subpart C (Section 15.247)

Test Procedure(s) : ANSI C63.10-2013, KDB 558074 D01v04

**Test Date** : May 20 ~ June 07, 2017

Reviewed By : Jane guar

( Jame Yuan )

Approved By : Marlinchen

(Marlin Chen)



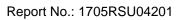


The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 558074 D01v04. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co.. Ltd.

FCC ID: 2Al3G-A7210 Page Number: 1 of 46





# **Revision History**

Report No.	Version	Description	Issue Date	Note
1705RSU04201	Rev. 01	Initial report	06-07-2017	Valid

FCC ID: 2Al3G-A7210 Page Number: 2 of 46



# **CONTENTS**

De	scriptic	on	Page
1.	INTR	ODUCTION	6
	1.1.	Scope	6
	1.2.	MRT Test Location	6
2.	PRO	DUCT INFORMATION	7
	2.1.	Feature of Equipment under Test	7
	2.2.	Product Specification Subjective to this Report	
	2.3.	Working Frequencies	
	2.4.	Device Capabilities	9
	2.5.	Test Configuration	9
	2.6.	EMI Suppression Device(s)/Modifications	9
	2.7.	Labeling Requirements	9
	2.8.	Test Software	9
3.	DESC	CRIPTION OF TEST	10
	3.1.	Evaluation Procedure	10
	3.2.	AC Line Conducted Emissions	10
	3.3.	Radiated Emissions	11
4.	ANTE	ENNA REQUIREMENTS	12
5.	TEST	FEQUIPMENT CALIBRATION DATE	13
6.	MEA	SUREMENT UNCERTAINTY	14
7.	TEST	TRESULT	15
	7.1.	Summary	15
	7.2.	6dB Bandwidth Measurement	16
	7.2.1.	Test Limit	16
	7.2.2.	Test Procedure used	16
	7.2.3.	Test Setting	16
	7.2.4.	Test Setup	16
	7.2.5.	Test Result	17
	7.3.	Output Power Measurement	18
	7.3.1.	Test Limit	18
	7.3.2.	Test Procedure Used	18
	7.3.3.	Test Setting	18
	7.3.4.	Test Setup	18
	7.3.5.	Test Result of Output Power	19
	7.4.	Power Spectral Density Measurement	20



7.4.1.	Test Limit	20
7.4.2.	Test Procedure Used	20
7.4.3.	Test Setting	20
7.4.4.	Test Setup	20
7.4.5.	Test Result	21
7.5.	Conducted Band Edge and Out-of-Band Emissions	22
7.5.1.	Test Limit	22
7.5.2.	Test Procedure Used	22
7.5.3.	Test Settitng	22
7.5.4.	Test Setup	23
7.5.5.	Test Result	24
7.6.	Radiated Spurious Emission Measurement	26
7.6.1.	Test Limit	26
7.6.2.	Test Procedure Used	26
7.6.3.	Test Setting	26
7.6.4.	Test Setup	28
7.6.5.	Test Result	30
7.7.	Radiated Restricted Band Edge Measurement	35
7.7.1.	Test Result	35
7.8.	AC Conducted Emissions Measurement	43
7.8.1.	Test Limit	43
7.8.2.	Test Setup	43
7.8.3.	Test Result	44
CONC	CLUSION	46

8.



# §2.1033 General Information

Applicant:	Pico Technology Co., Ltd.
Applicant Address:	Room 2101, Shining Tower, No.35 Xueyuan Road, HaiDian District,
	Beijing, The People's Republic of China
Manufacturer:	Pico Technology Co., Ltd.
Manufacturer Address:	Room 2101, Shining Tower, No.35 Xueyuan Road, HaiDian District,
	Beijing, The People's Republic of China
Test Site:	MRT Technology (Suzhou) Co., Ltd
Test Site Address:	D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong
	Economic Development Zone, Suzhou, China
MRT Registration No.:	809388
FCC Rule Part(s):	Part 15.247
Model No.:	A7210
FCC ID:	2AI3G-A7210
Test Device Serial No.:	N/A ☐ Production ☐ Pre-Production ☐ Engineering
FCC Classification:	Digital Transmission System (DTS)

# **Test Facility / Accreditations**

Measurements were performed at MRT Laboratory located in Tian'edang Rd., Suzhou, China.

- MRT facility is a FCC registered (MRT Reg. No. 809388) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules.
- MRT facility is an IC registered (MRT Reg. No. 11384A-1) test laboratory with the site description on file at Industry Canada.
- MRT facility is a VCCI registered (R-4179, G-814, C-4664, T-2206) test laboratory with the site description on file at VCCI Council.
- MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA) under the American Association for Laboratory Accreditation Program (A2LA Cert. No. 3628.01) in EMC, Telecommunications and Radio testing for FCC, Industry Canada, EU and TELEC Rules.



FCC ID: 2Al3G-A7210 Page Number: 5 of 46



# 1. INTRODUCTION

# 1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

#### 1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taihu Lake. These measurement tests were conducted at the MRT Technology (Suzhou) Co., Ltd. Facility located at D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2009 on September 30, 2013.



FCC ID: 2Al3G-A7210 Page Number: 6 of 46



# 2. PRODUCT INFORMATION

# 2.1. Feature of Equipment under Test

Product Name	VR All-In-One Headset	
Model No.	A7210	
Wi-Fi Specification	802.11b/g/n	
Bluetooth Version	v4.2 dual mode	
Components		
Adapter	M/N: HUUS090200-K00	
	INPUT: 100-240V ~ 50/60Hz, 0.5A	
	OUTPUT: 5Vdc, 2.0A OR 9Vdc, 2.0A	

# 2.2. Product Specification Subjective to this Report

Bluetooth Frequency	2402~2480MHz
Bluetooth Version	v4.2
Type of modulation	FHSS
Data Rate	1Mbps(GFSK)
Antenna Type	Stamping Antenna
Antenna Gain	2.4dBi

Note: For other features of this EUT, test report will be issued separately.

FCC ID: 2Al3G-A7210 Page Number: 7 of 46



# 2.3. Working Frequencies

Channel List for BLE

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				

FCC ID: 2Al3G-A7210 Page Number: 8 of 46



# 2.4. Device Capabilities

This device contains the following capabilities:

2.4GHz WLAN (DTS), Bluetooth (v4.2 Dual mode)

# 2.5. Test Configuration

The **VR All-In-One Headset FCC ID: 2Al3G-A7210** was tested per the guidance of KDB 558074 D01v04. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

# 2.6. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

# 2.7. Labeling Requirements

#### Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

#### 2.8. Test Software

The test utility software used during testing was "QRCT".

Test Mode	Test Channel No.	Test Frequency (MHz)	Power Parameter Value
	00	2402	7
BLE	19	2440	7
	39	2480	7

FCC ID: 2Al3G-A7210 Page Number: 9 of 46



# 3. DESCRIPTION OF TEST

#### 3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2013), and the guidance provided in KDB 558074 D01v04 were used in the measurement of the VR All-In-One Headset FCC ID: 2Al3G-A7210.

Deviation from measurement procedure......None

#### 3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 8'x4'x4' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz,  $50\Omega/50uH$  Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or data exchange speed, or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions were used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2013.

Line conducted emissions test results are shown in Section 7.8.

FCC ID: 2Al3G-A7210 Page Number: 10 of 46



#### 3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the Antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. A MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable. For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive Antenna height using a broadband Antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn Antennas were used. For frequencies below 30MHz, a calibrated loop Antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband Antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up for frequencies below 1GHz was placed on top of the 0.8 meter high, 1 x 1.5 meter table; and test set-up for frequencies 1-40GHz was placed on top of the 1.5 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive Antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn Antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive Antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive Antenna, whichever produced the worst-case emissions. According to 3dB Beam-Width of horn Antenna, the horn Antenna should be always directed to the EUT when rising height.

FCC ID: 2Al3G-A7210 Page Number: 11 of 46



# 4. ANTENNA REQUIREMENTS

# **Excerpt from §15.203 of the FCC Rules/Regulations:**

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 antenna of the VR All-In-One Headset is permanently attached.
- There are no provisions for connection to an external antenna.

#### Conclusion:

The VR All-In-One Headset unit complies with the requirement of §15.203.

FCC ID: 2Al3G-A7210 Page Number: 12 of 46



# 5. TEST EQUIPMENT CALIBRATION DATE

# Conducted Emissions - SR2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2017/06/20
Two-Line V-Network	R&S	ENV216	MRTSUE06002	1 year	2017/06/20
Two-Line V-Network	R&S	ENV216	MRTSUE06003	1 year	2017/06/20
Temperature/Humidity Meter	Yuhuaze	HTC-2	MRTSUE06181	1 year	2017/12/20
Shielding Anechoic Chamber	Mikebang	Chamber-SR2	MRTSUE06214	1 year	2018/05/10

# Radiated Emissions - AC1

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
MXE EMI Receiver	Agilent	N9038A	MRTSUE06125	1 year	2017/08/03
Microwave System Amplifier	Agilent	83017A	MRTSUE06076	1 year	2018/03/28
Loop Antenna	Schwarzbeck	FMZB1519	MRTSUE06025	1 year	2017/11/21
Bilog Period Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2017/11/19
Horn Antenna	Schwarzbeck	BBHA9120D	MRTSUE06023	1 year	2017/10/22
Broadband Horn Antenna	Schwarzbeck	BBHA9170	MRTSUE06024	1 year	2018/01/04
Temperature/Humidity Meter	Yuhuaze	HTC-2	MRTSUE06183	1 year	2017/12/20
Anechoic Chamber	TDK	Chamber-AC1	MRTSUE06212	1 year	2018/05/10

# Conducted Test Equipment - TR3

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
MXE EMI Receiver	Agilent	N9038A	MRTSUE06125	1 year	2017/08/03
Power Meter	Agilent	U2021XA	MRTSUE06030	1 year	2017/12/06
Temperature/Humidity Meter	Yuhuaze	HTC-2	MRTSUE06180	1 year	2017/12/22

Software	Version	Function
e3	V8.3.5	EMI Test Software

FCC ID: 2Al3G-A7210 Page Number: 13 of 46



# 6. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

#### AC Conducted Emission Measurement - SR2

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

150kHz~30MHz: 3.46dB

#### Radiated Emission Measurement - AC1

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

9kHz ~ 1GHz: 4.18dB 1GHz ~ 25GHz: 4.76dB

# Spurious Emissions, Conducted - SR1

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

0.78dB

# Output Power - SR1

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

1.13dB

# Power Spectrum Density - SR1

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

1.15dB

# Occupied Bandwidth - SR1

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

0.28%

FCC ID: 2Al3G-A7210 Page Number: 14 of 46



# 7. TEST RESULT

# 7.1. Summary

Company Name: <u>Pico Technology Co., Ltd.</u>

FCC ID: <u>2AI3G-A7210</u>

FCC Classification: <u>Digital Transmission System (DTS)</u>

Data Rate(s) Tested: 1Mbps(GFSK) (BLE)

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(2)	6dB Bandwidth	≥ 500kHz		Pass	Section 7.2
15.247(b)(3)	Output Power	≤ 1Watt	Conducted -	Pass	Section 7.3
15.247(e)	Power Spectral Density	≤ 8dBm / 3kHz		Pass	Section 7.4
15.247(d)	Band Edge / Out-of-Band Emissions	≥ 20dBc(Peak)		Pass	Section 7.5
15.205 15.209	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209	Radiated	Pass	Section 7.6 & 7.7
15.207	AC Conducted Emissions 150kHz - 30MHz	< FCC 15.207 limits	Line Conducted	Pass	Section 7.8

#### Notes:

- 1) All modes of operation and data rates were investigated. For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.

FCC ID: 2Al3G-A7210 Page Number: 15 of 46



# 7.2. 6dB Bandwidth Measurement

#### 7.2.1. Test Limit

The minimum 6dB bandwidth shall be at least 500 kHz.

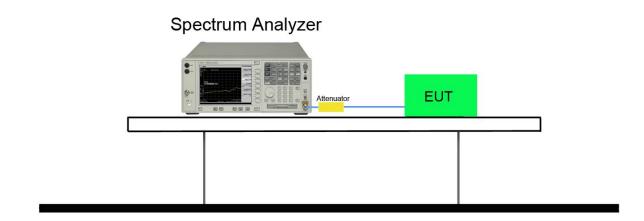
#### 7.2.2. Test Procedure used

KDB 558074 D01v04 - Section 8.2 Option 2

# 7.2.3. Test Setting

- The Spectrum's automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 6. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. Set RBW = 100 kHz
- 3. VBW ≥ 3 × RBW
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple
- 7. Allow the trace was allowed to stabilize

# 7.2.4. Test Setup



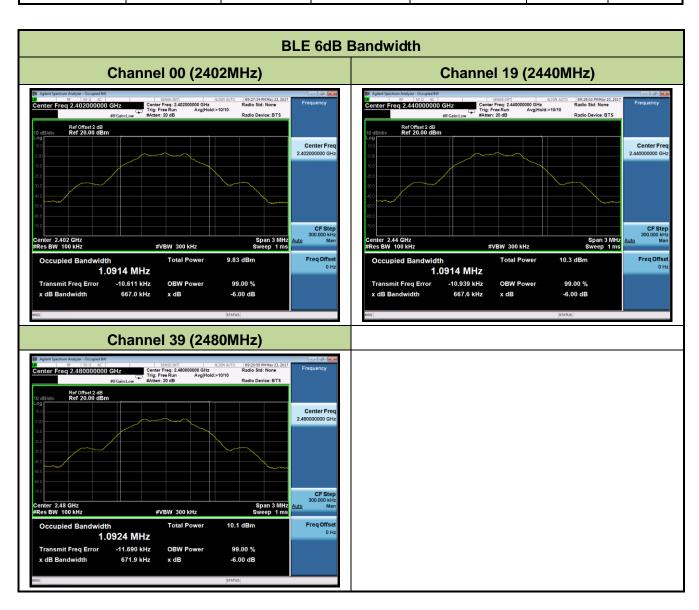
FCC ID: 2Al3G-A7210 Page Number: 16 of 46

Report No.: 1705RSU04201



#### 7.2.5. Test Result

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
BLE	1	00	2402	0.67	≥ 0.5	Pass
BLE	1	19	2440	0.67	≥ 0.5	Pass
BLE	1	39	2480	0.67	≥ 0.5	Pass



FCC ID: 2Al3G-A7210 Page Number: 17 of 46



# 7.3. Output Power Measurement

# 7.3.1. Test Limit

The maximum out power shall be less 1 Watt (30dBm).

#### 7.3.2. Test Procedure Used

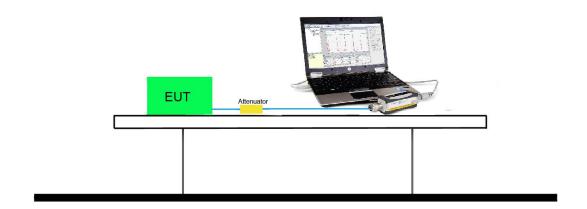
KDB 558074 D01v04 - Section 9.1.2 PKPM1 - Peak Power Method

# 7.3.3. Test Setting

# Method PKPM1 (Peak Power Measurement of Signals with DTS BW ≤ 50MHz)

Peak power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The pulse sensor employs a VBW = 50MHz so this method was only used for signals whose DTS bandwidth was less than or equal to 50MHz.

# 7.3.4. Test Setup



FCC ID: 2Al3G-A7210 Page Number: 18 of 46



# 7.3.5. Test Result of Output Power

# **Test Result of Peak Output Power**

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	Peak Power (dBm)	Limit (dBm)	Result
BLE	1	00	2402	2.56	≤ 30	Pass
BLE	1	19	2440	3.12	≤ 30	Pass
BLE	1	39	2480	3.05	≤ 30	Pass

# **Test Result of Average Output Power (Reporting Only)**

Test Mode	Data Rate	Channel No.	Frequency	Average	Limit	Result
	(Mbps)		(MHz)	Power (dBm)	(dBm)	
BLE	1	00	2402	0.51	≤ 30	Pass
BLE	1	19	2440	1.07	≤ 30	Pass
BLE	1	39	2480	1.03	≤ 30	Pass

FCC ID: 2Al3G-A7210 Page Number: 19 of 46



# 7.4. Power Spectral Density Measurement

# 7.4.1. Test Limit

The maximum permissible power spectral density is 8dBm in any 3 kHz band.

#### 7.4.2. Test Procedure Used

KDB 558074 D01v04 - Section 10.2 Method PKPSD

# 7.4.3. Test Setting

- 1. Analyzer was set to the center frequency of the DTS channel under investigation
- 2. Span = 1.5 times the DTS channel bandwidth
- 3. RBW = 3kHz
- 4. VBW = 10kHz
- 5. Detector = peak
- 6. Sweep time = auto couple
- 7. Trace mode = max hold
- 8. Trace was allowed to stabilize

# 7.4.4. Test Setup

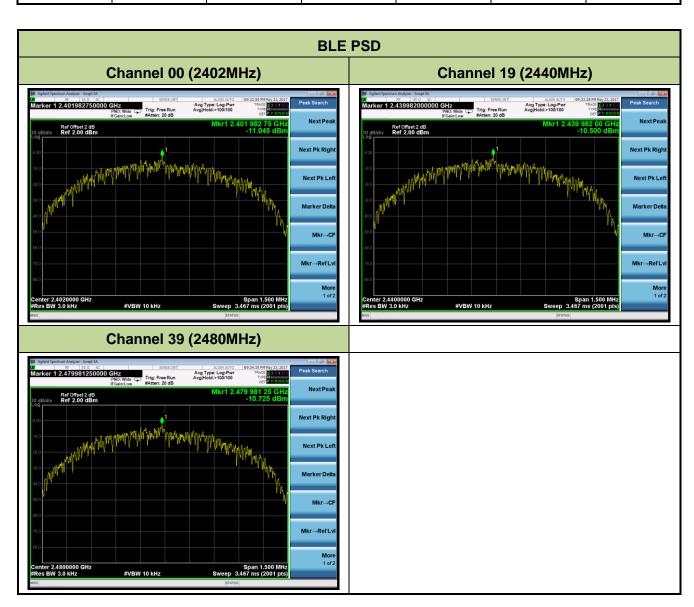
# Spectrum Analyzer Attenuator EUT

FCC ID: 2Al3G-A7210 Page Number: 20 of 46



#### 7.4.5. Test Result

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	PSD Result (dBm / 3kHz)	Limit (dBm / 3kHz)	Result
BLE	1	00	2402	-11.05	≤ 8	Pass
BLE	1	19	2440	-10.50	≤ 8	Pass
BLE	1	39	2480	-10.73	≤ 8	Pass



FCC ID: 2Al3G-A7210 Page Number: 21 of 46



# 7.5. Conducted Band Edge and Out-of-Band Emissions

#### 7.5.1. Test Limit

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the PSD procedure.

#### 7.5.2. Test Procedure Used

KDB 558074 D01v04 - Section 11.2 & Section 11.3

# 7.5.3. Test Settitng

#### 1. Reference level measurement

- (a) Set instrument center frequency to DTS channel center frequency
- (b) Set the span to ≥ 1.5 times the DTS bandwidth
- (c) Set the RBW = 100 kHz
- (d) Set the VBW  $\geq$  3 x RBW
- (e) Detector = peak
- (f) Sweep time = auto couple
- (g) Trace mode = max hold
- (h) Allow trace to fully stabilize

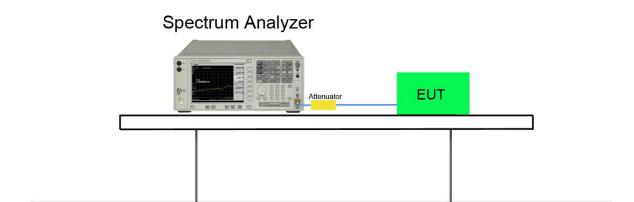
#### 2. Emission level measurement

- (a) Set the center frequency and span to encompass frequency range to be measured
- (b) RBW = 100kHz
- (c) VBW = 300kHz
- (d) Detector = Peak
- (e) Number of sweep points ≥ 2 x Span/RBW
- (f) Trace mode = max hold
- (g) Sweep time = auto couple
- (h) The trace was allowed to stabilize

FCC ID: 2Al3G-A7210 Page Number: 22 of 46



# 7.5.4. Test Setup



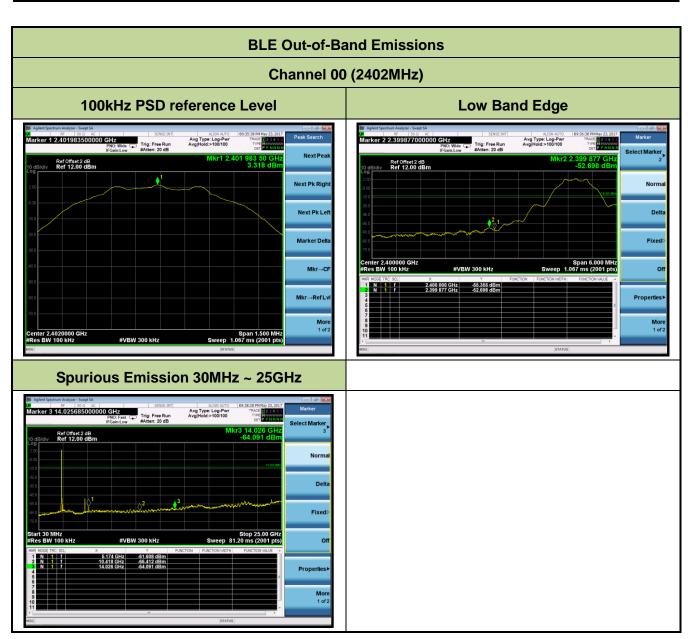
FCC ID: 2Al3G-A7210 Page Number: 23 of 46

Report No.: 1705RSU04201



# 7.5.5. Test Result

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	Limit	Result
BLE	1	00	2402	20dBc	Pass
BLE	1	19	2440	20dBc	Pass
BLE	1	39	2480	20dBc	Pass



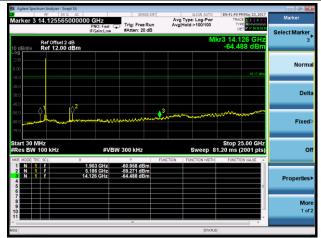
FCC ID: 2Al3G-A7210 Page Number: 24 of 46



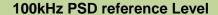
# Channel 19 (2440MHz) 100kHz PSD reference Level Spuri



# Spurious Emission 30MHz ~ 25GHz

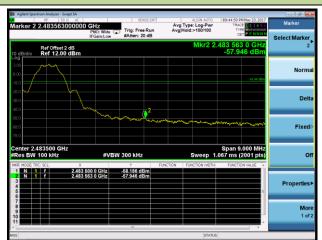


# Channel 39 (2480MHz)

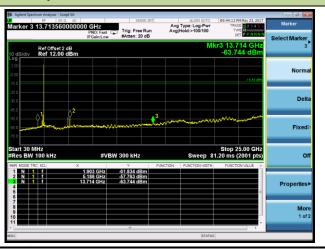




# **High Band Edge**



# Spurious Emission 30MHz ~ 25GHz



FCC ID: 2Al3G-A7210 Page Number: 25 of 46



# 7.6. Radiated Spurious Emission Measurement

#### 7.6.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209								
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]						
0.009 - 0.490	2400/F (kHz)	300						
0.490 - 1.705	24000/F (kHz)	30						
1.705 - 30	30	30						
30 - 88	100	3						
88 - 216	150	3						
216 - 960	200	3						
Above 960	500	3						

# 7.6.2. Test Procedure Used

KDB 558074 D01v04 - Section 12.2.3 (quasi-peak measurements)

KDB 558074 D01v04 - Section 12.2.4 (peak power measurements)

KDB 558074 D01v04 - Section 12.2.5 (average power measurements)

# 7.6.3. Test Setting

# Peak Field Strength Measurements per Section 12.2.4 of KDB 558074 D01v04

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = as specified in Table 1
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple

FCC ID: 2Al3G-A7210 Page Number: 26 of 46



- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

# Average Field Strength Measurements per Section 12.2.4 of KDB 558074 D01v04

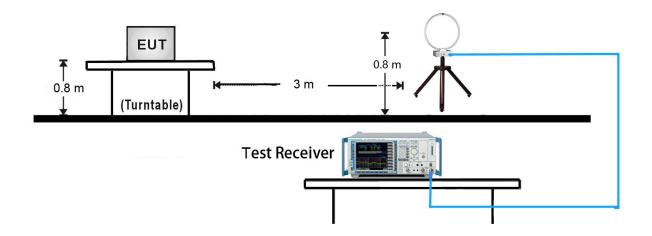
- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW ≥ 1/T
- 4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
- 5. Detector = Peak
- 6. Sweep time = auto
- 7. Trace mode = max hold
- 8. Allow max hold to run for at least 50 times (1/duty cycle) traces

FCC ID: 2Al3G-A7210 Page Number: 27 of 46

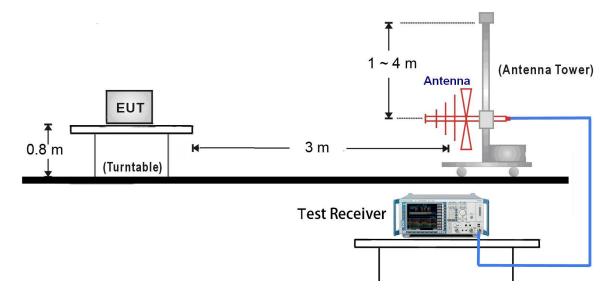


# 7.6.4. Test Setup

# 9kHz ~ 30MHz Test Setup:



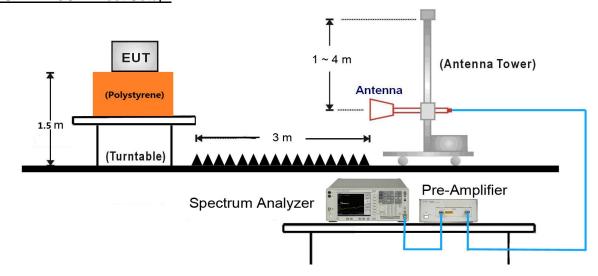
# 30MHz ~ 1GHz Test Setup:



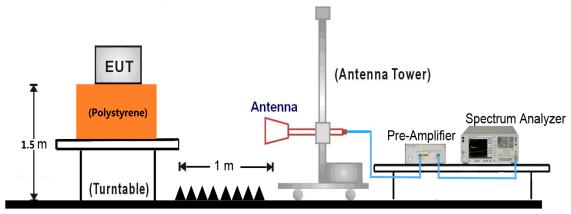
FCC ID: 2Al3G-A7210 Page Number: 28 of 46



# 1GHz ~ 18GHz Test Setup:



# 18GHz ~25GHz Test Setup:



FCC ID: 2Al3G-A7210 Page Number: 29 of 46



#### 7.6.5. Test Result

**Remark:** There are the ambient noise within frequency range 9 kHz  $\sim$  30 MHz and 18GHz  $\sim$  25GHz, the permissible value is not show in the report.

Test Mode:	BLE	Test Site:	AC1					
Test Channel:	00	Test Engineer:	Bruce Wang					
Remark:	Average measurement was not performed if peak level lower than average							
	limit.							
	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show							
	in the report.							

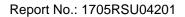
Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	3796.50	37.30	-0.23	37.07	74.00	-36.93	Peak	Horizontal
	4714.50	36.98	2.40	39.38	74.00	-34.62	Peak	Horizontal
*	6414.50	36.64	5.52	42.16	74.10	-31.94	Peak	Horizontal
*	9967.50	35.57	11.43	47.00	74.10	-27.10	Peak	Horizontal
	3745.50	37.50	-0.41	37.09	74.00	-36.91	Peak	Vertical
	4774.00	35.71	2.64	38.35	74.00	-35.65	Peak	Vertical
*	6661.00	35.87	5.96	41.83	74.10	-32.27	Peak	Vertical
*	10120.50	35.47	11.57	47.04	74.10	-27.06	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 20dBc of the fundamental emission level (94.1dBµV/m) or 15.209 which is higher.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

FCC ID: 2Al3G-A7210 Page Number: 30 of 46





Test Mode:	BLE	Test Site:	AC1					
Test Channel:	19	Test Engineer:	Bruce Wang					
Remark:	Average measurement was not performed if peak level lower than average							
	limit.							
	2. Other frequency was 20dB bel	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show						
	in the report.							

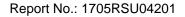
Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	3890.00	37.77	0.15	37.92	74.00	-36.08	Peak	Horizontal
	4850.50	36.71	2.68	39.39	74.00	-34.61	Peak	Horizontal
*	6559.00	35.54	5.96	41.50	75.20	-33.70	Peak	Horizontal
*	9882.50	34.78	11.59	46.37	75.20	-28.83	Peak	Horizontal
	3890.00	37.45	0.15	37.60	74.00	-36.40	Peak	Vertical
	4774.00	37.52	2.64	40.16	74.00	-33.84	Peak	Vertical
*	6703.50	35.92	5.80	41.72	75.20	-33.48	Peak	Vertical
*	9925.00	34.60	11.50	46.10	75.20	-29.10	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 20dBc of the fundamental emission level (95.2dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

FCC ID: 2Al3G-A7210 Page Number: 31 of 46





Test Mode:	BLE	Test Site:	AC1							
Test Channel:	39	Test Engineer:	Bruce Wang							
Remark:	Average measurement was not performed if peak level lower than average limit.									
	Other frequency was 20dB bel in the report.	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show								

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	3830.50	35.99	-0.06	35.93	74.00	-38.07	Peak	Horizontal
	4748.50	36.81	2.54	39.35	74.00	-34.65	Peak	Horizontal
*	6423.00	36.27	5.58	41.85	75.20	-33.35	Peak	Horizontal
*	9865.50	34.53	11.60	46.13	75.20	-29.07	Peak	Horizontal
	3847.50	34.90	0.03	34.93	74.00	-39.07	Peak	Vertical
	4765.50	36.31	2.61	38.92	74.00	-35.08	Peak	Vertical
*	6618.50	34.75	6.01	40.76	75.20	-34.44	Peak	Vertical
*	10044.00	34.63	11.58	46.21	75.20	-28.99	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 20dBc of the fundamental emission level (95.2dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

FCC ID: 2Al3G-A7210 Page Number: 32 of 46



# The worst case of Radiated Emission below 1GHz:

Worse Case Mode: Transmit by BLE at channel 2402MHz					
EUT: VR All-In-One Headset	Power: By Battery				
Probe: VULB9168_20-2000MHz	Polarity: Horizontal				
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang				
Site: AC1	Time: 2017/05/29 - 17:02				

Level(dBuV/m) -10 Frequency(MHz)

No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			48.915	15.497	1.400	-24.503	40.000	14.097	QP
2			167.740	19.406	4.937	-24.094	43.500	14.469	QP
3			287.535	25.634	11.649	-20.366	46.000	13.986	QP
4			436.915	25.202	7.700	-20.798	46.000	17.502	QP
5			477.655	24.798	6.658	-21.202	46.000	18.140	QP
6		*	831.220	27.088	3.598	-18.912	46.000	23.490	QP

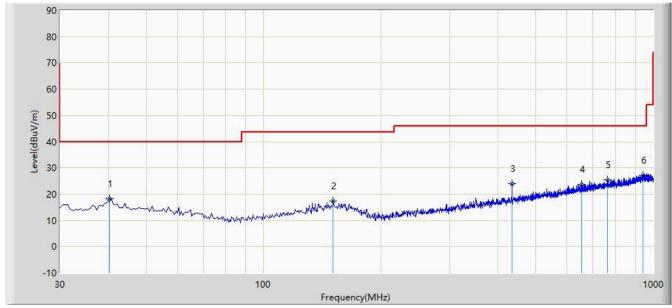
Note: Measure Level ( $dB\mu V/m$ ) = Reading Level ( $dB\mu V$ ) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

FCC ID: 2Al3G-A7210 Page Number: 33 of 46



Site: AC1	Time: 2017/05/29 - 17:04				
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang				
Probe: VULB9168_20-2000MHz	Polarity: Vertical				
EUT: VR All-In-One Headset	Power: By Battery				
Worse Case Mode: Transmit by BLE at channel 2402MHz					



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			40.185	18.298	3.795	-21.702	40.000	14.503	QP
2			150.765	17.249	2.067	-26.251	43.500	15.182	QP
3			434.005	24.105	6.678	-21.895	46.000	17.427	QP
4			653.225	23.848	2.435	-22.152	46.000	21.413	QP
5			762.835	25.583	2.699	-20.417	46.000	22.884	QP
6		*	941.800	27.270	2.417	-18.730	46.000	24.853	QP

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

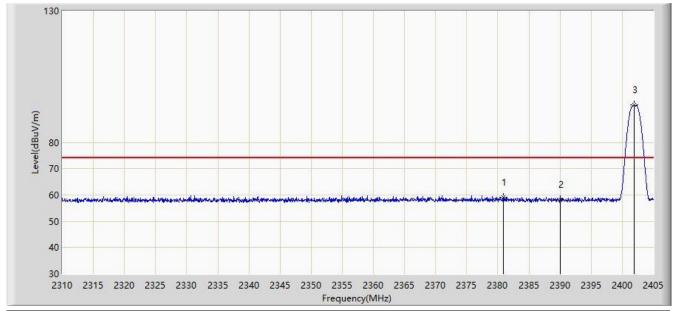
FCC ID: 2Al3G-A7210 Page Number: 34 of 46



# 7.7. Radiated Restricted Band Edge Measurement

# 7.7.1. Test Result

Site: AC1	Time: 2017/05/26 - 21:45					
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang					
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal					
EUT: VR All-In-One Headset	Power: By Battery					
Test Mode: Transmit by BLE at Channel 2402MHz						



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2380.917	59.174	27.955	-14.826	74.000	31.219	PK
2			2390.000	58.122	26.919	-15.878	74.000	31.203	PK
3		*	2401.960	94.134	62.950	N/A	N/A	31.184	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

FCC ID: 2Al3G-A7210 Page Number: 35 of 46



Site: AC1	Time: 2017/05/26 - 21:48					
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang					
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal					
EUT: VR All-In-One Headset	Power: By Battery					
Test Mode: Transmit by BLE at Channel 2402MHz						

130 2 2 30 2310 2315 2320 2325 2330 2335 2340 2345 2350 2355 2360 2365 2370 2375 2380 2385 2390 2395 2400 2405 Frequency(MHz)

No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2390.000	45.136	13.933	-8.864	54.000	31.203	AV
2		*	2402.008	76.675	45.491	N/A	N/A	31.184	AV

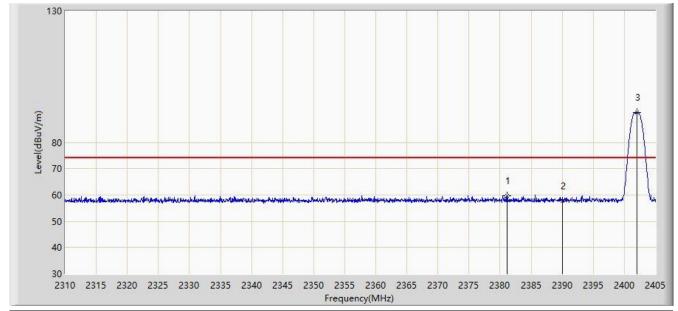
Note: Measure Level ( $dB\mu V/m$ ) = Reading Level ( $dB\mu V$ ) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

FCC ID: 2Al3G-A7210 Page Number: 36 of 46



Site: AC1	Time: 2017/05/26 - 21:48					
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang					
Probe: BBHA9120D_1-18GHz	Polarity: Vertical					
EUT: VR All-In-One Headset	Power: By Battery					
Test Mode: Transmit by BLE at Channel 2402MHz						



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2381.155	59.808	28.589	-14.192	74.000	31.219	PK
2			2390.000	57.624	26.421	-16.376	74.000	31.203	PK
3		*	2402.008	91.336	60.152	N/A	N/A	31.184	PK

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

FCC ID: 2Al3G-A7210 Page Number: 37 of 46



Site: AC1	Time: 2017/05/26 - 21:50			
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang			
Probe: BBHA9120D_1-18GHz	Polarity: Vertical			
EUT: VR All-In-One Headset	Power: By Battery			
Test Mode: Transmit by BLE at Channel 2402MHz				

130 (W) 80 50 40 30 2310 2315 2320 2325 2330 2335 2340 2345 2350 2355 2360 2365 2370 2375 2380 2385 2390 2395 2400 2405

No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			2390.000	45.192	13.989	-8.808	54.000	31.203	AV
2		*	2402.008	75.029	43.845	N/A	N/A	31.184	AV

Frequency(MHz)

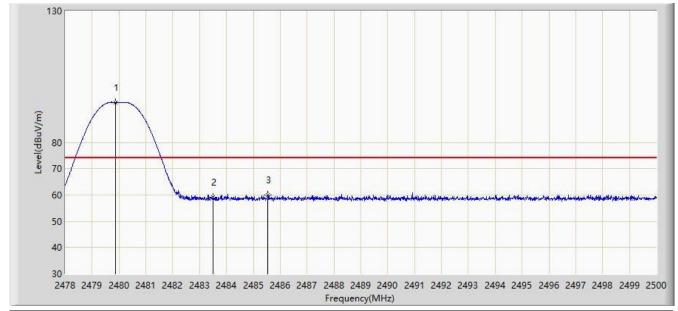
Note: Measure Level ( $dB\mu V/m$ ) = Reading Level ( $dB\mu V$ ) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

FCC ID: 2Al3G-A7210 Page Number: 38 of 46



Test Mode: Transmit by BLE at Channel 2480MHz				
EUT: VR All-In-One Headset	Power: By Battery			
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal			
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang			
Site: AC1	Time: 2017/05/26 - 21:51			



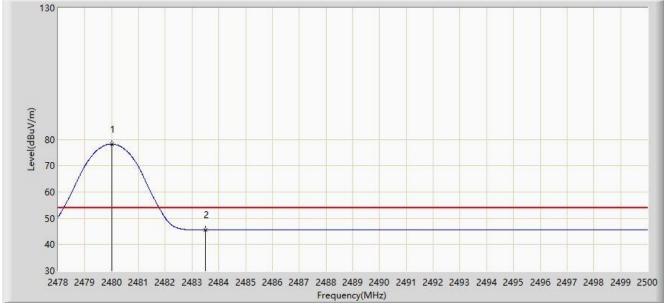
No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2479.870	95.223	64.039	N/A	N/A	31.184	PK
2			2483.500	59.158	27.965	-14.842	74.000	31.194	PK
3			2485.546	59.982	28.783	-14.018	74.000	31.198	PK

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

FCC ID: 2Al3G-A7210 Page Number: 39 of 46



Test Mode: Transmit by BLE at Channel 2480MHz				
EUT: VR All-In-One Headset	Power: By Battery			
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal			
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang			
Site: AC1	Time: 2017/05/26 - 21:54			



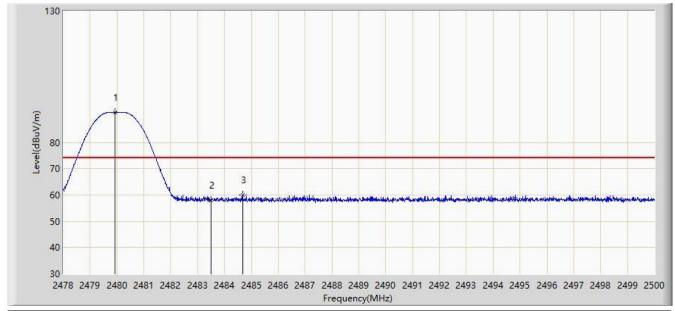
No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2480.002	78.214	47.030	N/A	N/A	31.184	AV
2			2483.500	45.519	14.326	-8.481	54.000	31.194	AV

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

FCC ID: 2Al3G-A7210 Page Number: 40 of 46



Site: AC1	Time: 2017/05/26 - 21:54			
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang			
Probe: BBHA9120D_1-18GHz	Polarity: Vertical			
EUT: VR All-In-One Headset	Power: By Battery			
Test Mode: Transmit by BLE at Channel 2480MHz				



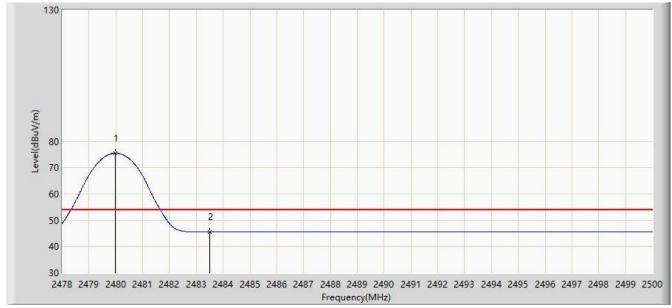
No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2479.936	91.487	60.303	N/A	N/A	31.184	PK
2			2483.500	58.010	26.817	-15.990	74.000	31.194	PK
3			2484.677	59.862	28.666	-14.138	74.000	31.197	PK

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

FCC ID: 2Al3G-A7210 Page Number: 41 of 46



Site: AC1	Time: 2017/05/26 - 21:55			
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang			
Probe: BBHA9120D_1-18GHz	Polarity: Vertical			
EUT: VR All-In-One Headset	Power: By Battery			
Test Mode: Transmit by BLE at Channel 2480MHz				



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	2479.969	75.461	44.277	N/A	N/A	31.184	AV
2			2483.500	45.499	14.306	-8.501	54.000	31.194	AV

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

FCC ID: 2Al3G-A7210 Page Number: 42 of 46



# 7.8. AC Conducted Emissions Measurement

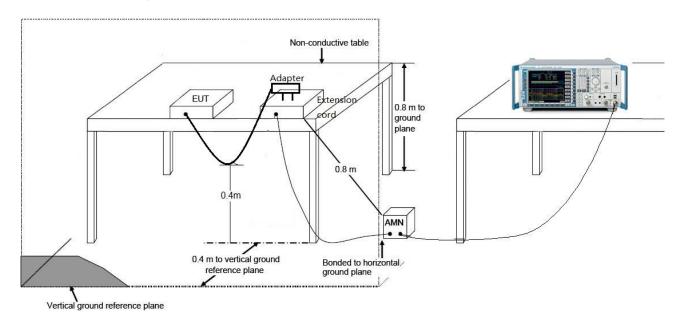
# 7.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits						
Frequency (MHz)	QP (dBuV)	AV (dBuV)				
0.15 - 0.50	66 - 56	56 - 46				
0.50 - 5.0	56	46				
5.0 - 30	60	50				

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

# 7.8.2. Test Setup

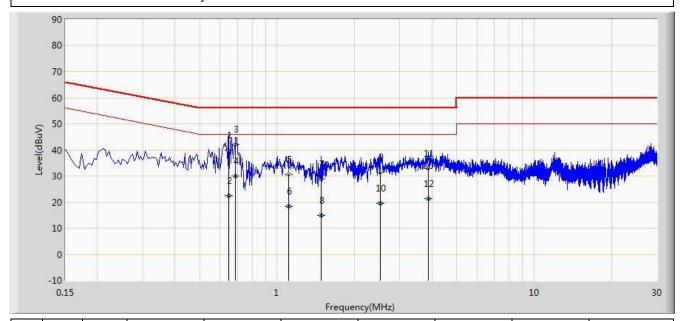


FCC ID: 2Al3G-A7210 Page Number: 43 of 46



# 7.8.3. Test Result

Site: SR2	Time: 2017/05/29 - 18:44			
Limit: FCC_Part15.207_CE_AC Power	Engineer: Vince Yu			
Probe: ENV216_101683_Filter On	Polarity: Line			
EUT: VR All-In-One Headset	Power: AC 120V/60Hz			
Worst Case Mode: Transmit by BLE at channel 2402MHz				



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV)	(dB)	
				(dBuV)	(dBuV)				
1			0.650	39.928	29.839	-16.072	56.000	10.089	QP
2			0.650	22.472	12.383	-23.528	46.000	10.089	AV
3		*	0.690	42.187	32.119	-13.813	56.000	10.068	QP
4			0.690	29.948	19.880	-16.052	46.000	10.068	AV
5			1.106	30.492	20.588	-25.508	56.000	9.904	QP
6			1.106	18.536	8.632	-27.464	46.000	9.904	AV
7			1.482	28.967	19.077	-27.033	56.000	9.890	QP
8			1.482	15.023	5.133	-30.977	46.000	9.890	AV
9			2.522	31.313	21.457	-24.687	56.000	9.856	QP
10			2.522	19.581	9.725	-26.419	46.000	9.856	AV
11			3.874	32.905	22.946	-23.095	56.000	9.959	QP
12			3.874	21.342	11.383	-24.658	46.000	9.959	AV

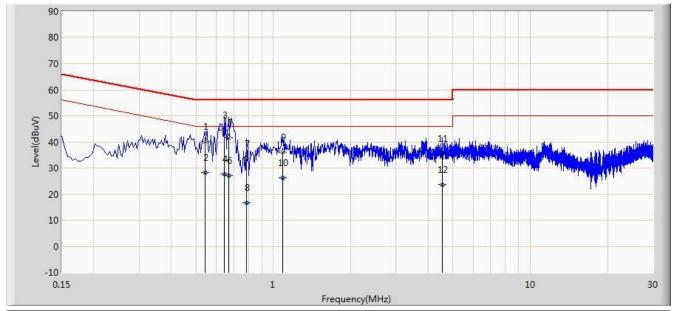
Note: Measure Level (dB $\mu$ V) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

FCC ID: 2Al3G-A7210 Page Number: 44 of 46



Worst Case Mode: Transmit by BLE at channel 2402MHz					
EUT: VR All-In-One Headset	Power: AC 120V/60Hz				
Probe: ENV216_101683_Filter On	Polarity: Neutral				
Limit: FCC_Part15.207_CE_AC Power	Engineer: Vince Yu				
Site: SR2	Time: 2017/05/29 - 18:51				



No	Flag	Mark	Frequency	Measure	Reading	Over Limit	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV)	(dB)	
				(dBuV)	(dBuV)				
1			0.542	40.198	30.035	-15.802	56.000	10.163	QP
2			0.542	28.279	18.116	-17.721	46.000	10.163	AV
3		*	0.642	44.355	34.247	-11.645	56.000	10.108	QP
4			0.642	27.770	17.663	-18.230	46.000	10.108	AV
5			0.670	41.499	31.407	-14.501	56.000	10.092	QP
6			0.670	27.196	17.104	-18.804	46.000	10.092	AV
7			0.786	33.525	23.497	-22.475	56.000	10.027	QP
8			0.786	16.779	6.752	-29.221	46.000	10.027	AV
9			1.086	36.218	26.313	-19.782	56.000	9.905	QP
10			1.086	26.206	16.301	-19.794	46.000	9.905	AV
11			4.546	35.556	25.554	-20.444	56.000	10.002	QP
12			4.546	23.738	13.736	-22.262	46.000	10.002	AV

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

FCC ID: 2Al3G-A7210 Page Number: 45 of 46



# 8. CONCLUSION

The data collected relate only the item(s) tested and show that the **VR All-In-One Headset** is in compliance with Part 15C of the FCC Rules.

FCC ID: 2Al3G-A7210 Page Number: 46 of 46

The End