



**FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of**

Goodbetterbest Limited

**Product: (1)EX-06 Wireless Gaming Foldable Headset 2.4G
(2)EX-05S Universal Wireless Stereo Headset**

Model Number: (1)EX6UNI-21(2)E5SUNI-21

FCC ID: VS9-EXUNI

**Prepared for : Goodbetterbest Limited
Suites 103-107, Devonshire Business Centre,
Works Road, Letchworth, SG6 1GJ, United Kingdom**

**Prepared By : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block,
Shenzhen Science & Industrial Park,
Nantou, Shenzhen, Guangdong, China**

Tel: (0755) 26639496

**Report Number : ACS-F13285
Date of Test : Aug.26~Sep.21, 2013
Date of Report : Oct.16, 2013**

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TEST REPORT CERTIFICATION

Applicant : Goodbetterbest Limited

EUT Description : (1)EX-06 Wireless Gaming Foldable Headset 2.4G
 (2)EX-05S Universal Wireless Stereo Headset

FCC ID : VS9-EXUNI

(A) MODEL NO. : (1)EX6UNI-21(2)E5SUNI-21
 (B) SERIAL NO. : N/A
 (C) POWER SUPPLY : DC 3.7V; DC 5V
 (D) TEST VOLTAGE : DC 5V From PC Input AC 120V/60Hz

Tested for comply with:
 FCC Rules and Regulations Part 15 Subpart C: 2012

Test procedure used:
 ANSI C63.10:2009

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC Part 15 Subpart C requirements.

The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. This report contains data that are not covered by the NVLAP accreditation. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Aug.26~ Sep.21, 2013 Report of date: Oct.16, 2013

Prepared by : Julia Zhu / Assistant
 Reviewed by : Sunny Lu / Assistant Manager

AUDIX 信華科技(深圳)有限公司
 Audix Technology (Shenzhen) Co., Ltd.
 EMC 部門報告專用章
 Stamp only for EMC Dept. Report
 Signature: David Jin 10.16

Approved & Authorized Signer : David Jin / Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Power Line Conducted Emission Test	FCC Part 15C: 15.207 ANSI C63.10-2009	PASS
Radiated Emission Test	FCC Part 15C: 15.209 FCC Part 15C: 15.249 ANSI C63.10-2009	PASS
Band Edge Compliance Test	FCC Part 15: 15.249 ANSI C63.10-2009	PASS
20dB Bandwidth Test	FCC Part 15: 15.215 ANSI C63.10-2009	PASS

2. GENERAL INFORMATION

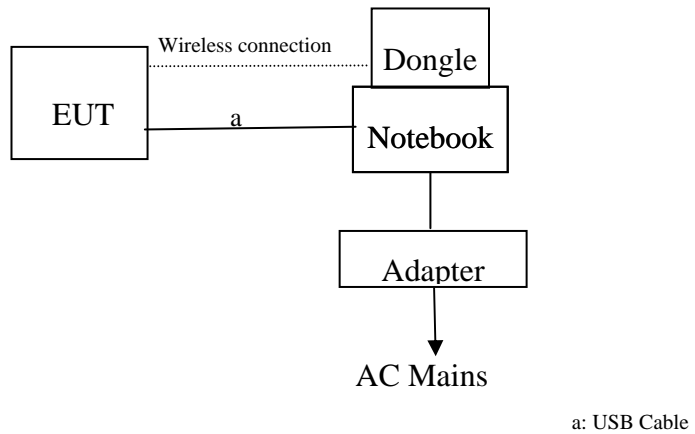
2.1. Description of Device (EUT)

Product Name	:	(1)EX-06 Wireless Gaming Foldable Headset 2.4G (2)EX-05S Universal Wireless Stereo Headset
Model Number	:	(1)EX6UNI-21(2)E5SUNI-21
FCC ID	:	VS9-EXUNI
Operation frequency	:	2405MHz-2478MHz
Antenna	:	Integrated PCB antenna, 0dBi gain
Modulation	:	GFSK
Applicant	:	Goodbetterbest Limited Suites 103-107, Devonshire Business Centre, Works Road, Letchworth, SG6 1GJ, United Kingdom
Audio Cable	:	Unshielded, Detachable, 1.0m
USB Cable	:	Unshielded, Detachable, 1.0m
AV In Cable	:	Unshielded, Detachable, 1.5m
Date of Test	:	Aug.26~Sep.21, 2013
Date of Receipt	:	Aug.25, 2013
Sample Type	:	Prototype production

2.2. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number	Approved type
1.	Notebook	Test PC R	DELL	D430	PP09S	<input checked="" type="checkbox"/> FCC DoC
		Power Cord: Unshielded, Detachable, 1.8m Power Adopter: Manufacture: DELL, M/N:LA65NS1-00 DVI Cable: Shielded, Detachable, 4.0m (Power Cord: Unshielded, Detachable, 1.8m)				

2.3. EUT Configuration and operation conditions for test.



**(EUT: (1)EX-06 Wireless Gaming Foldable Headset 2.4G
 (2)EX-05S Universal Wireless Stereo Headset)**

2.4. Test Facility

<p>Site Description Name of Firm</p>	<p>: Audix Technology (Shenzhen) Co., Ltd. No. 6, Ke Feng Rd., 52 Block, Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China</p>
<p>3m Anechoic Chamber</p>	<p>: Certificated by FCC, USA Registration Number: 90454 Valid Date: Feb.22, 2015</p>
<p>3m & 10m Anechoic Chamber</p>	<p>: Certificated by FCC, USA Registration Number: 794232 Valid Date: Dec.31, 2015</p>
<p>EMC Lab.</p>	<p>: Certificated by Industry Canada Registration Number: IC 5183A-1 Valid Date: Jun.13, 2014</p> <p>Certificated by DAkKS, Germany Registration No: D-PL-12151-01-01 Valid Date: Feb.01, 2014</p> <p>Accredited by NVLAP, USA NVLAP Code: 200372-0 Valid Date: Mar.31, 2014</p>

2.5. Measurement Uncertainty (95% confidence levels, k=2)

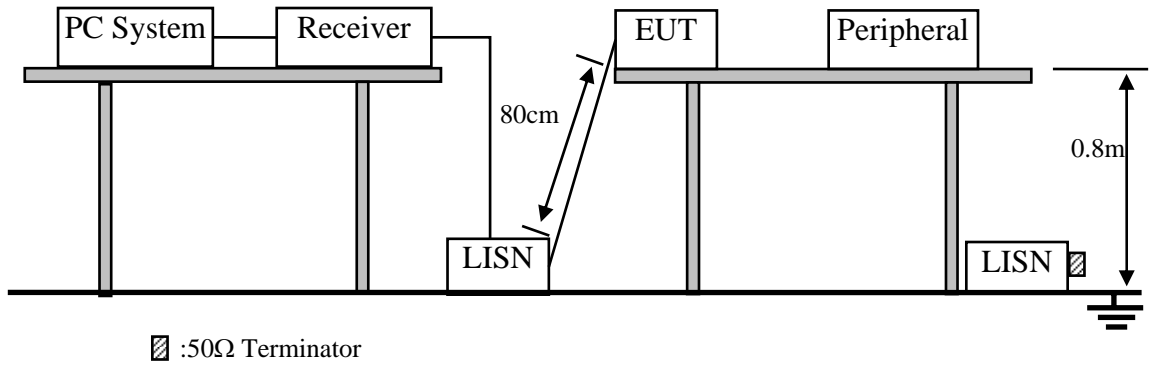
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.08dB(9KHz to 150KHz)
	3.1dB (150KHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	3.22 dB(30~200MHz, Polarize: H)
	3.23 dB(30~200MHz, Polarize: V)
	3.49 dB(200M~1GHz, Polarize: H)
	3.39 dB(200M~1GHz, Polarize: V)
Uncertainty for Radiation Emission test in 3m chamber (1GHz-18GHz)	5.04 dB(1~6GHz, Distance: 3m)
	5.06 dB(6~18GHz, Distance: 3m)
Uncertainty for Radiated Spurious Emission test in RF chamber	3.57dB
Uncertainty for Conduction Spurious emission test	2.00 dB
Uncertainty for Output power test	0.73 dB
Uncertainty for Power density test	2.00 dB
Uncertainty for Frequency range test	7×10^{-8}
Uncertainty for Bandwidth test	83 kHz
Uncertainty for DC power test	0.038 %
Uncertainty for test site temperature and humidity	0.6°C
	3%

3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Oct.31, 12	1 Year
2.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	834066/011	Oct.31, 12	1 Year
3.	L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	May.08, 13	1 Year
4.	Terminator	Hubersuhner	50Ω	No. 1	May.08, 13	1 Year
5.	Terminator	Hubersuhner	50Ω	No. 2	May.08, 13	1 Year
6.	RF Cable	Fujikura	3D-2W	No.1	May.08, 13	1Year
7.	Coaxial Switch	Anritsu	MP59B	M50564	May.08, 13	1 Year
8.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	May.08, 13	1 Year

3.2. Block Diagram of Test Setup



3.3. Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.
 2. The lower limit shall apply at the transition frequencies.

3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1. EX-06 Wireless Gaming Foldable Headset 2.4G (EUT)

Model Number : EX6UNI-21

Serial Number : N/A

3.4.2. Support Equipment: As Tested Supporting System Details, in Section 2.2.

3.5. Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown as Section 3.2.

3.5.2. Turned on the power of all equipment.

3.5.3. PC run test software to control EUT work in Tx mode.

3.6. Test Procedure

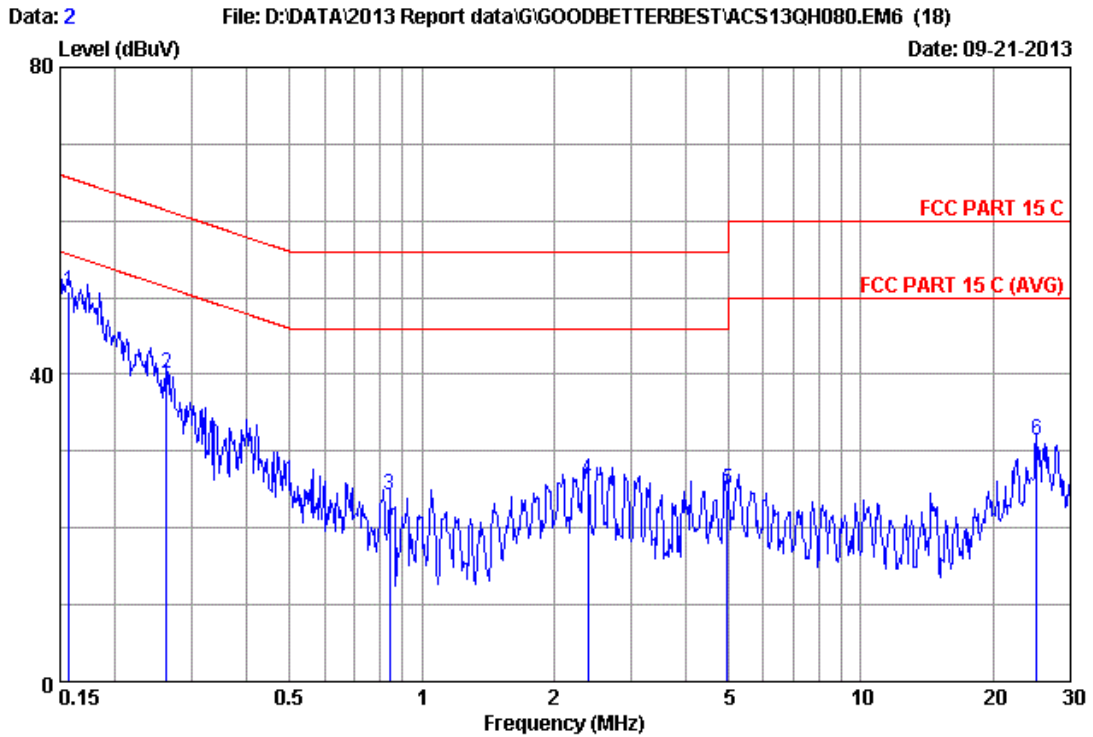
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via PC connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2009 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS10) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.7. Power Line Conducted Emission Test Results

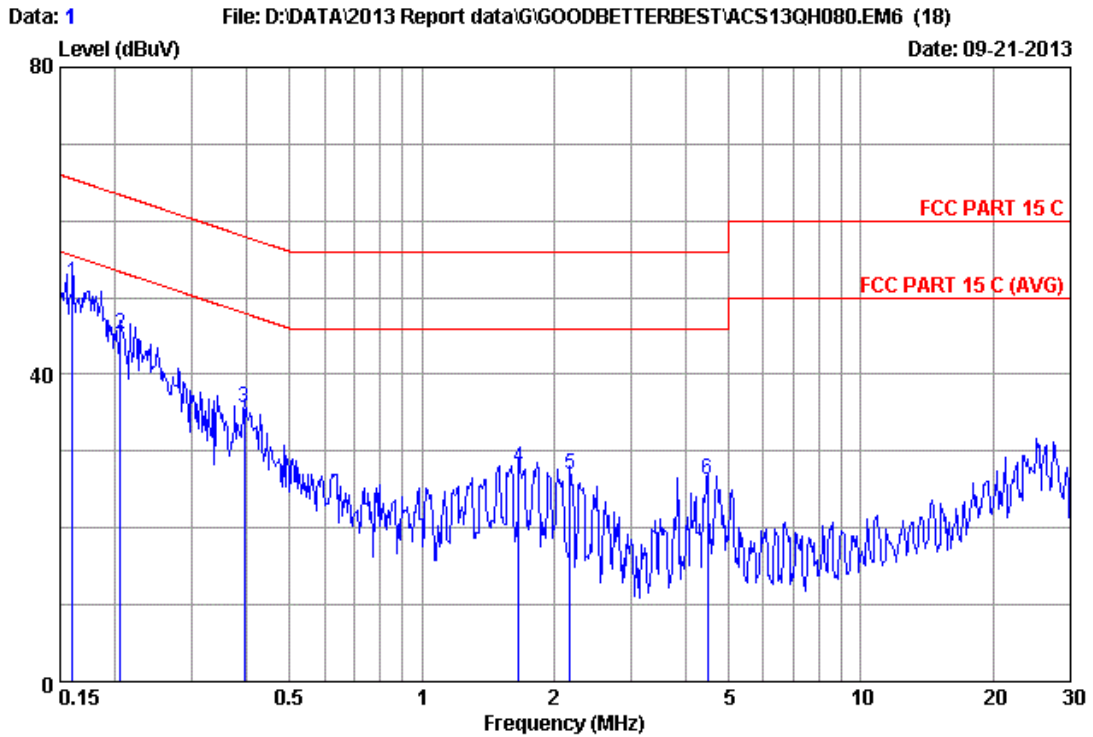
PASS. (All emissions not reported below are too low against the prescribed limits.)



Site no :1#conduction Data No :2
 Dis./Ant. **: 2012 ESH2-25 LINE
 Limit :FCC PART 15 C
 Env./Ins. :23.8*C/51% Engineer :Nick_Huang
 EUT :EX-06 Wireless Gaming Foldable Headset 2.4G
 Power Rating :DC 5V From PC Input AC 120V/60Hz
 Test Mode :Tx Mode
 M/N: EX6UNI-21

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15733	0.19	0.01	50.59	50.79	65.60	14.81	QP
2	0.26164	0.19	0.01	39.98	40.18	61.38	21.20	QP
3	0.84378	0.20	0.03	23.99	24.22	56.00	31.78	QP
4	2.384	0.25	0.04	25.99	26.28	56.00	29.72	QP
5	4.952	0.31	0.07	24.66	25.04	56.00	30.96	QP
6	25.188	1.36	0.16	29.80	31.32	60.00	28.68	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
 2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Site no :1#conduction Data No :1
 Dis./Ant. **: 2012 ESH2-25 NEUTRAL
 Limit :FCC PART 15 C
 Env./Ins. :23.8*C/51% Engineer :Nick_Huang
 EUT :EX-06 Wireless Gaming Foldable Headset 2.4G
 Power Rating :DC 5V From PC Input AC 120V/60Hz
 Test Mode :Tx Mode
 M/N: EX6UNI-21

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15985	0.21	0.01	51.63	51.85	65.47	13.62	QP
2	0.20614	0.21	0.01	44.91	45.13	63.36	18.23	QP
3	0.39344	0.22	0.02	35.43	35.67	57.99	22.32	QP
4	1.662	0.27	0.04	27.59	27.90	56.00	28.10	QP
5	2.178	0.29	0.04	26.68	27.01	56.00	28.99	QP
6	4.478	0.33	0.06	25.91	26.30	56.00	29.70	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
 2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

4. RADIATED EMISSION TEST

4.1. Test Equipment

Frequency rang: 30~1000MHz

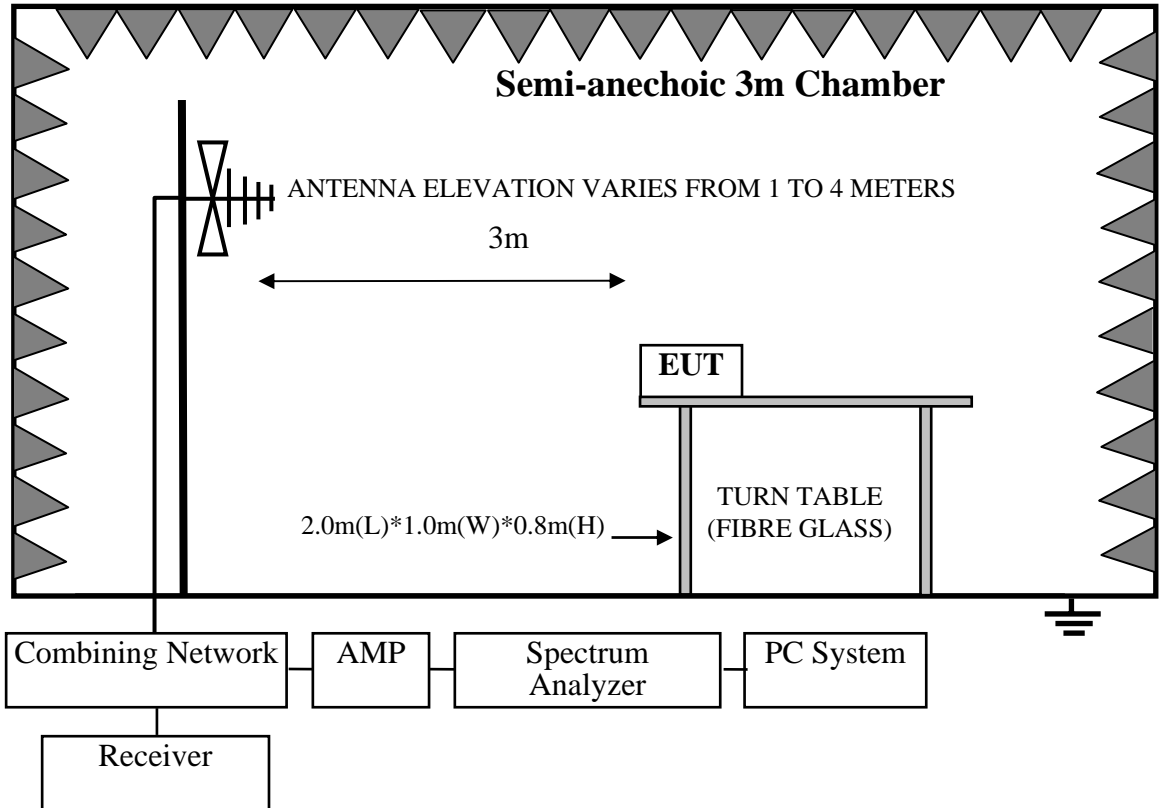
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Nov.24, 12	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 13	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 13	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 13	1 Year
5	Bilog Antenna	TESEQ	CBL6112D	35375	May.30, 13	1 Year
6	RF Cable	MIYAZAKI	CFD400-NL	3# Chamber No.1	May.08, 13	1 Year
7	Coaxial Switch	Anritsu	MP59B	M74389	May.08, 13	1 Year

Frequency rang: above 1000MHz

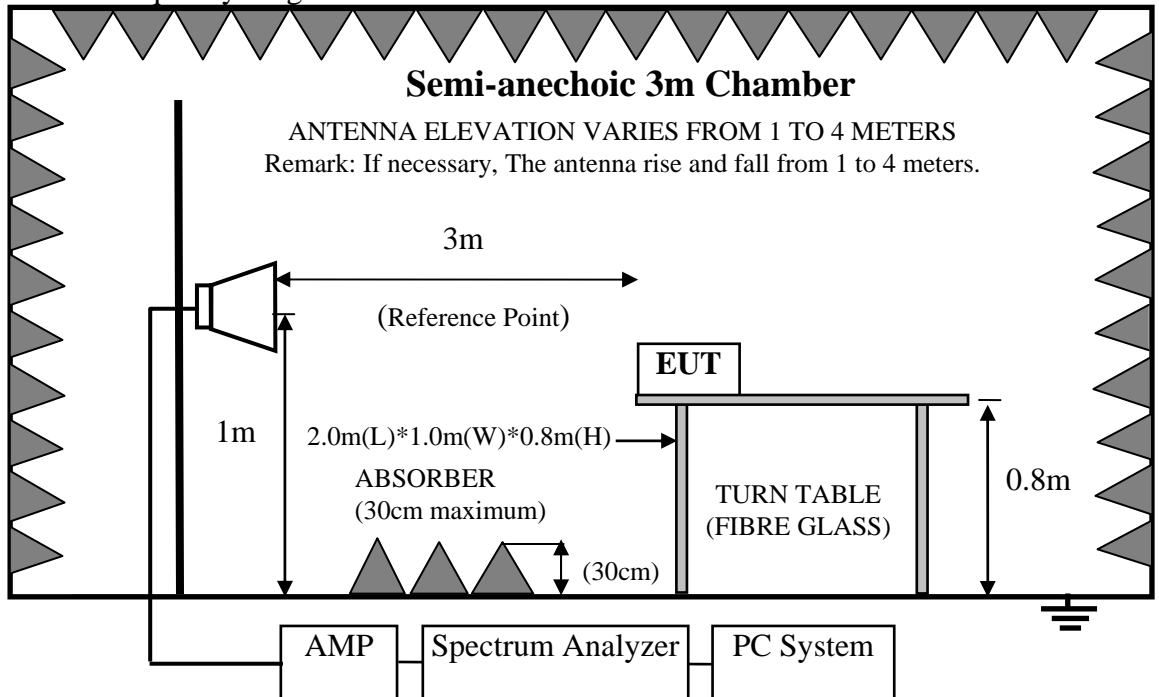
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4407B	MY41440292	May.08, 13	1 Year
2	Horn Antenna	EMCO	3115	9510-4580	May.28, 13	1 Year
3	Amplifier	Agilent	8449B	3008A00863	May.08, 13	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX106	77980/6	May.08, 13	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	May.08, 13	1 Year
6	Horn Antenna	EMCO	3116	00060089	Aug.28, 13	1 Year

4.2. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz



For frequency range above 1GHz



4.3. Radiated Emission Limit Standard: FCC 15.209 and 15.249

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000MHz	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	
Field Strength of fundamental emissions for 2.4GHz-2.4835GHz	3	114.0 dB(μV)/m (Peak) 94.0 dB(μV)/m (Average)	

- Remark :
- (1) Emission level $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V}/\text{m}$
 - (2) The smaller limit shall apply at the cross point between two frequency bands.
 - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.
 - (4) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

4.4.EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.5.Operating Condition of EUT

- 4.5.1. Setup the EUT and simulator as shown as Section 4.2.
- 4.5.2. Turned on the power of all equipment.
- 4.5.3. Let EUT work in Tx mode.

4.6.Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10-2009 on radiated emission Test.

During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions.

After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation show in the test setup photos.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's RBW is set at 1MHz and VBW is set at 3MHz for peak emissions measurement above 1GHz

This device is pulse modulated, a duty cycle factor was used to calculate average level based measured peak level.

The frequency range from 30MHz to 10th harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

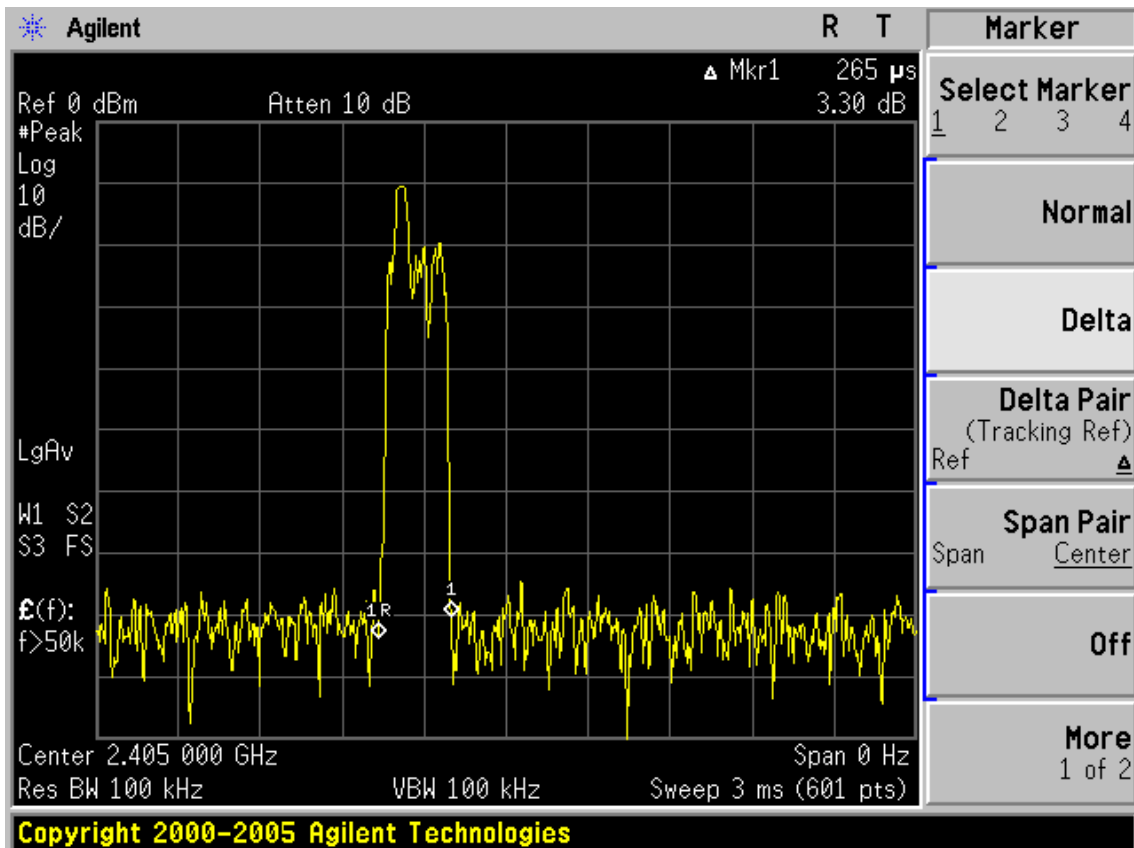
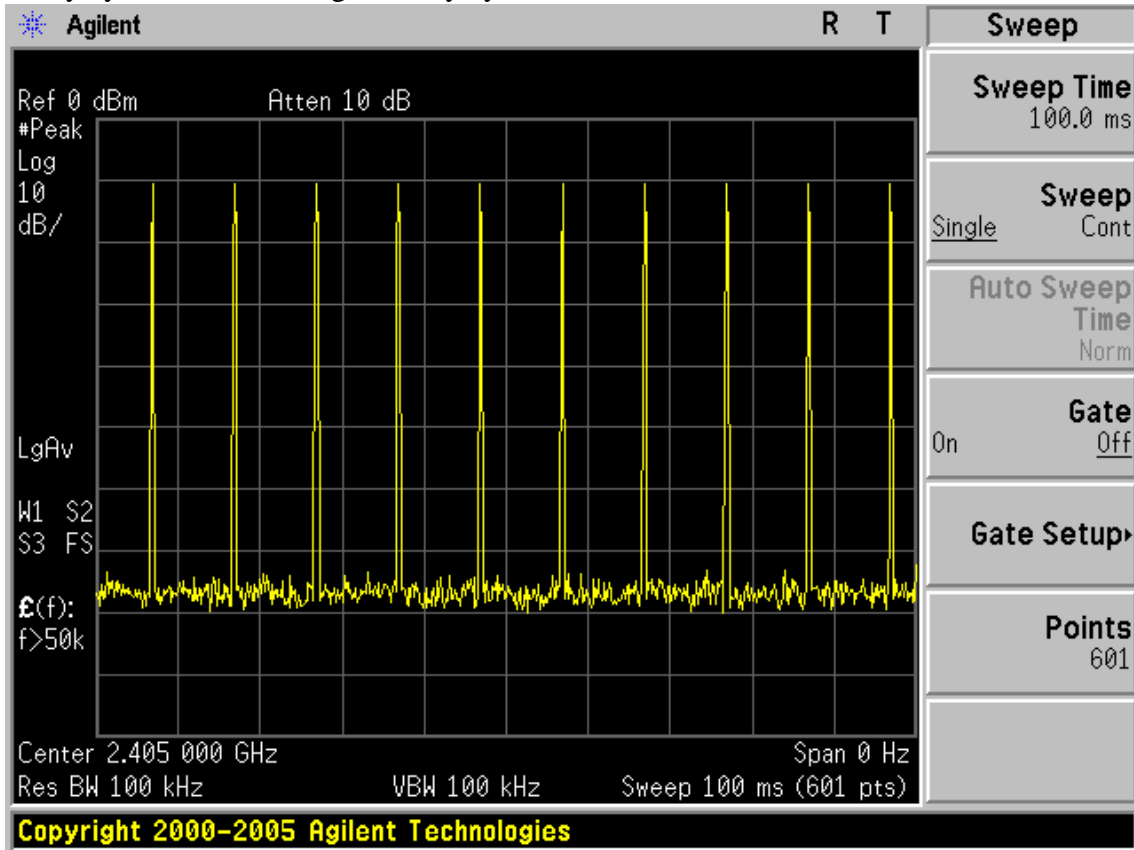
4.7.Radiated Emission Test Results

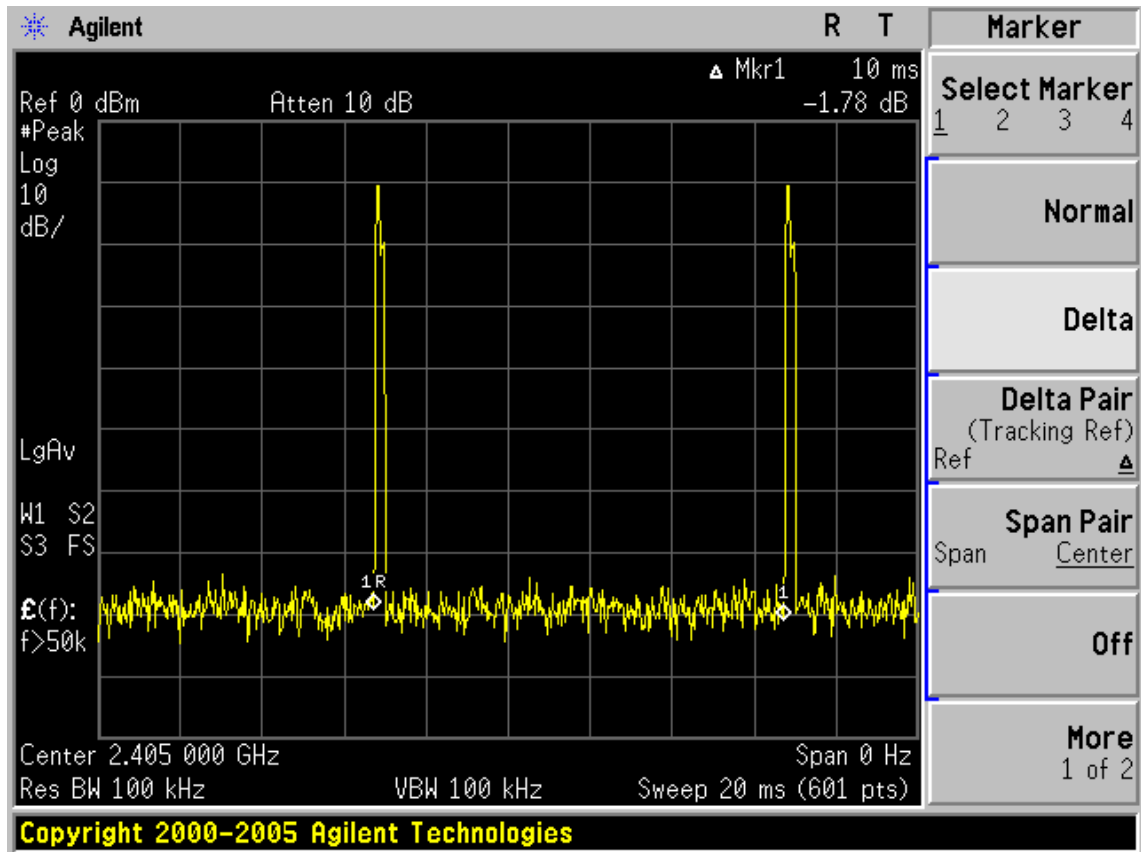
PASS.

All the emissions from 30MHz to 25GHz were comply with the 15.209 Limit.

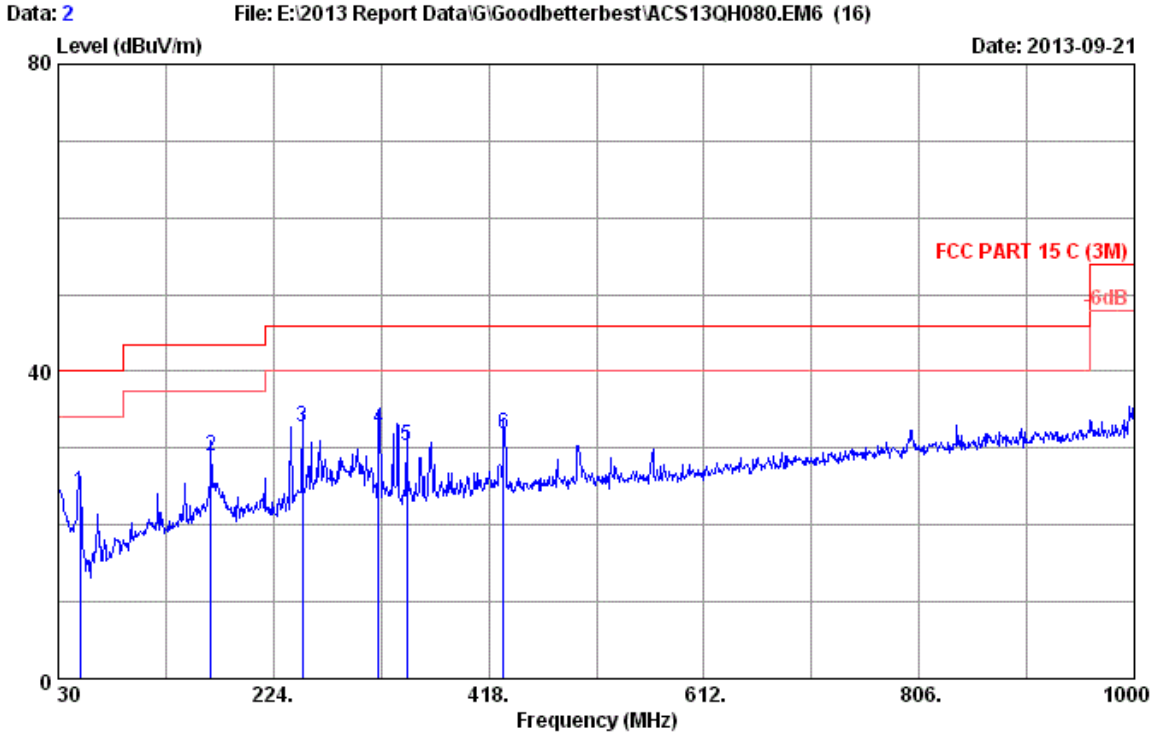
Note: The duty cycle factor for calculate average level is 51.53 dB, and average limit is 20dB below peak limit, so if peak measured level comply with peak limit, the average level was deemed to comply with average limit.

Duty cycle: $0.265\text{ms} \cdot 10\text{ms} / 100\text{ms} \cdot 100\% = 2.65\%$
 Duty cycle factor = $20\log(1/\text{duty cycle}) = 51.53$





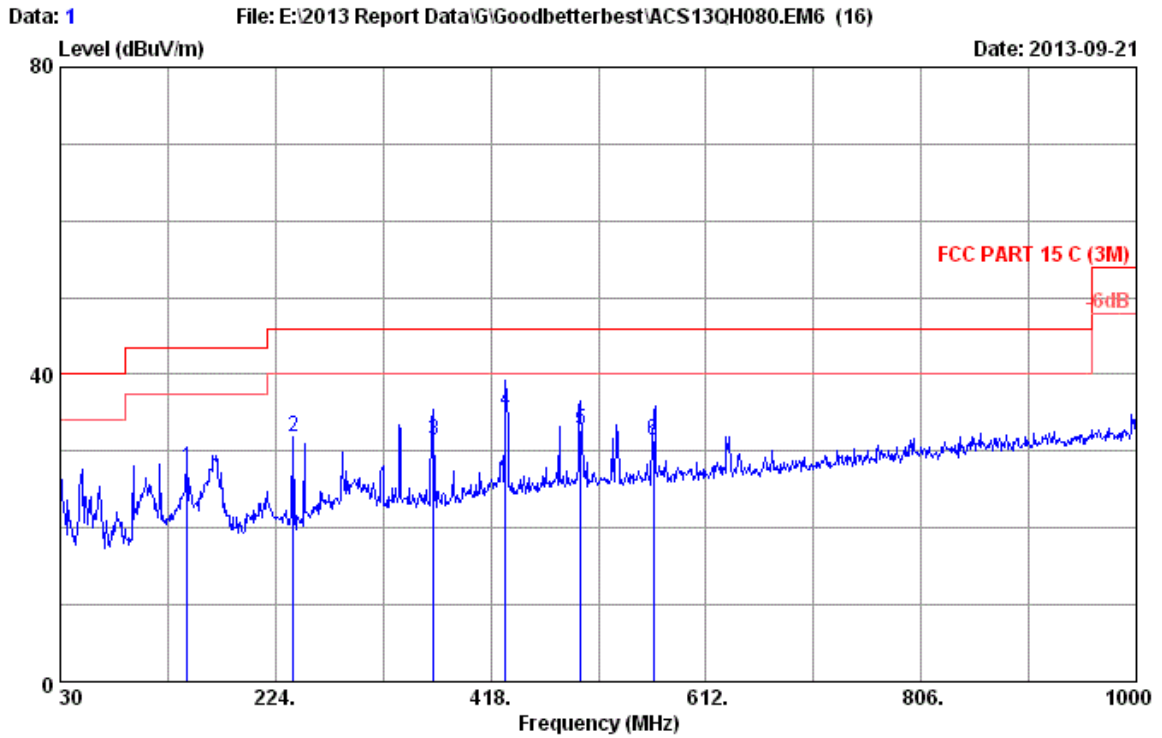
Frequency: 30MHz~1GHz



Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2013 CBL6112D 35375 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24°C/65% Engineer : Kevin
 EUT : EX-06 Wireless Gaming Foldable Headset 2.4G
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : Tx Mode
 M/N: EX6UNI-21

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	49.400	9.34	1.18	13.79	24.31	40.00	15.69	QP
2	167.740	10.41	1.67	16.79	28.87	43.50	14.63	QP
3	250.190	13.11	1.98	17.61	32.70	46.00	13.30	QP
4	319.060	14.38	2.23	15.94	32.55	46.00	13.45	QP
5	344.280	15.09	2.30	12.86	30.25	46.00	15.75	QP
6	431.580	17.07	2.55	12.35	31.97	46.00	14.03	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

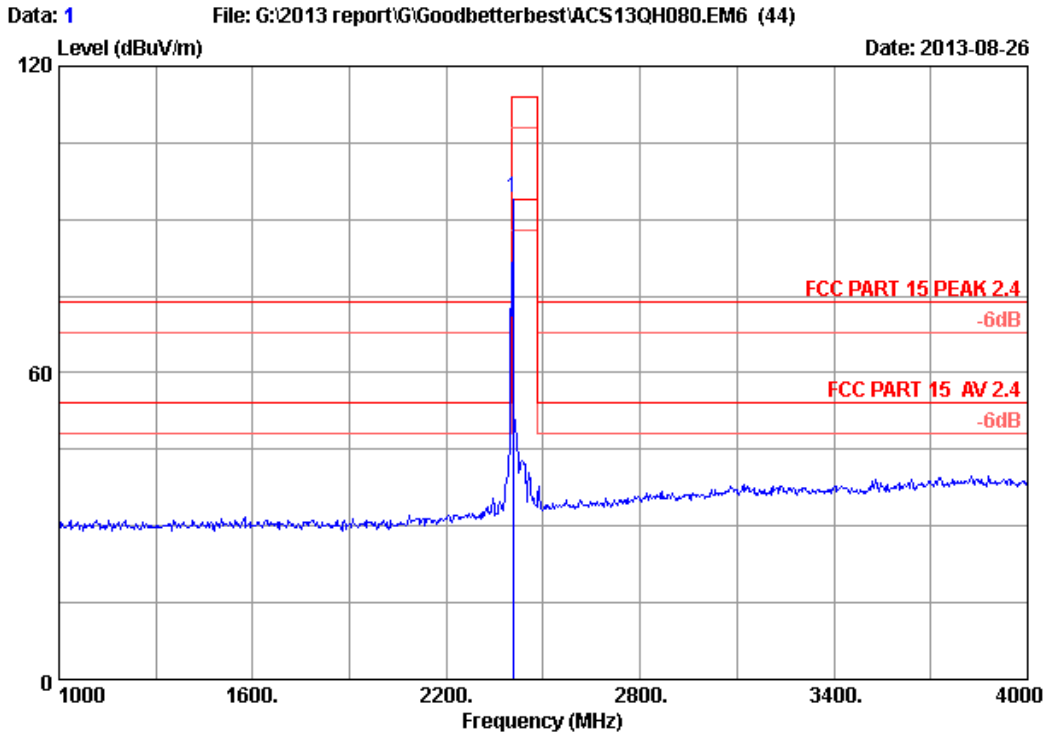


Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 2013 CBL6112D 35375 Ant. pol. : VERTICAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 24°C/65% Engineer : Kevin
 EUT : EX-06 Wireless Gaming Foldable Headset 2.4G
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : Tx Mode
 M/N: EX6UNI-21

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	144.460	11.65	1.58	14.68	27.91	43.50	15.59	QP
2	240.490	12.25	1.94	17.71	31.90	46.00	14.10	QP
3	366.590	15.70	2.36	13.28	31.34	46.00	14.66	QP
4	431.580	17.07	2.55	15.65	35.27	46.00	10.73	QP
5	499.480	17.99	2.75	11.91	32.65	46.00	13.35	QP
6	564.470	18.80	2.93	9.80	31.53	46.00	14.47	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Frequency: 1GHz~18GHz

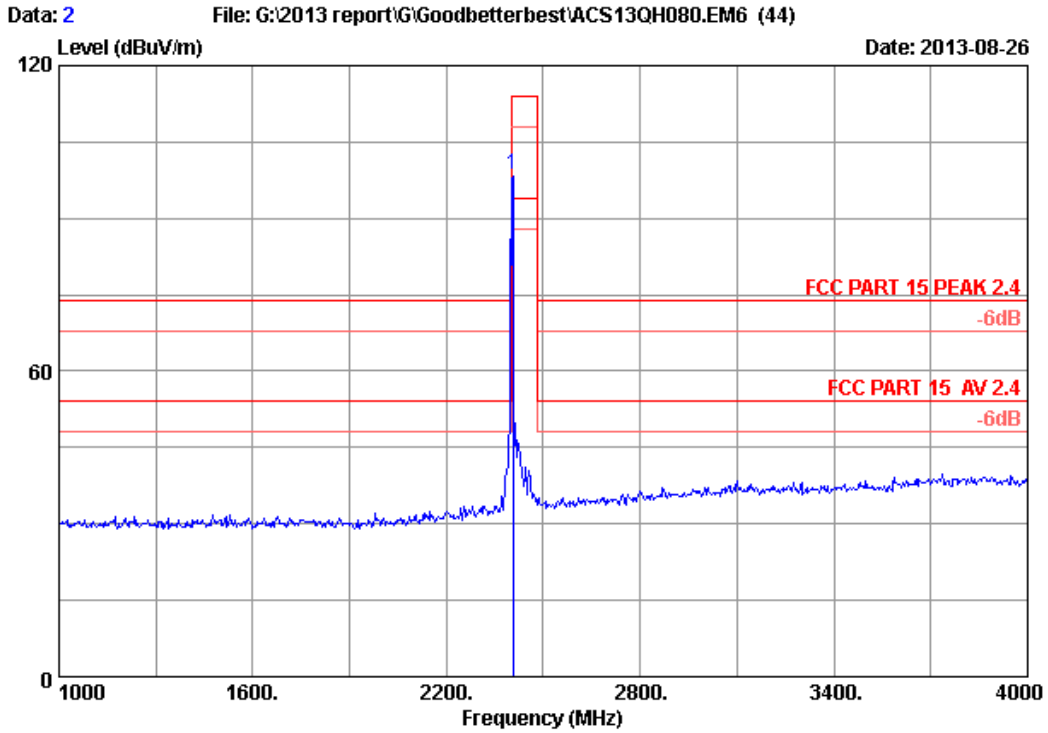


Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : EX-06 Wireless Gaming Foldable Headset 2.4G
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : 2405MHz Tx
 EX6UNI-21

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission			Remark
						Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	2405.000	26.79	5.80	35.70	97.34	94.23	114.00	19.77	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

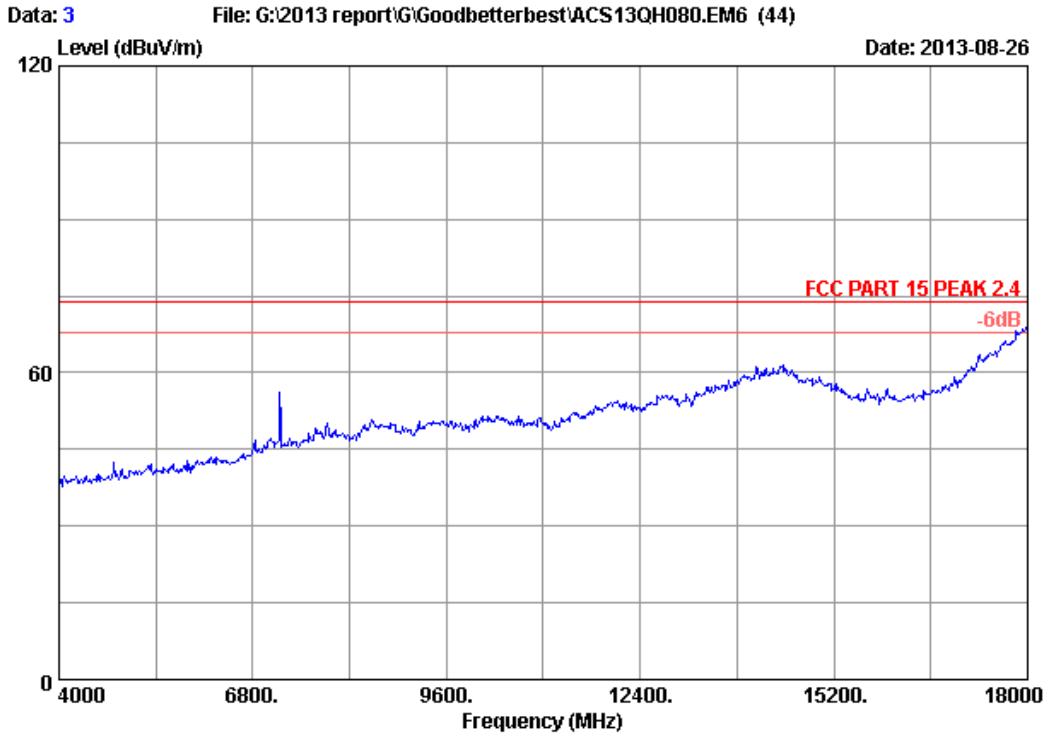


Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : EX-06 Wireless Gaming Foldable Headset 2.4G
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : 2405MHz Tx
 EX6UNI-21

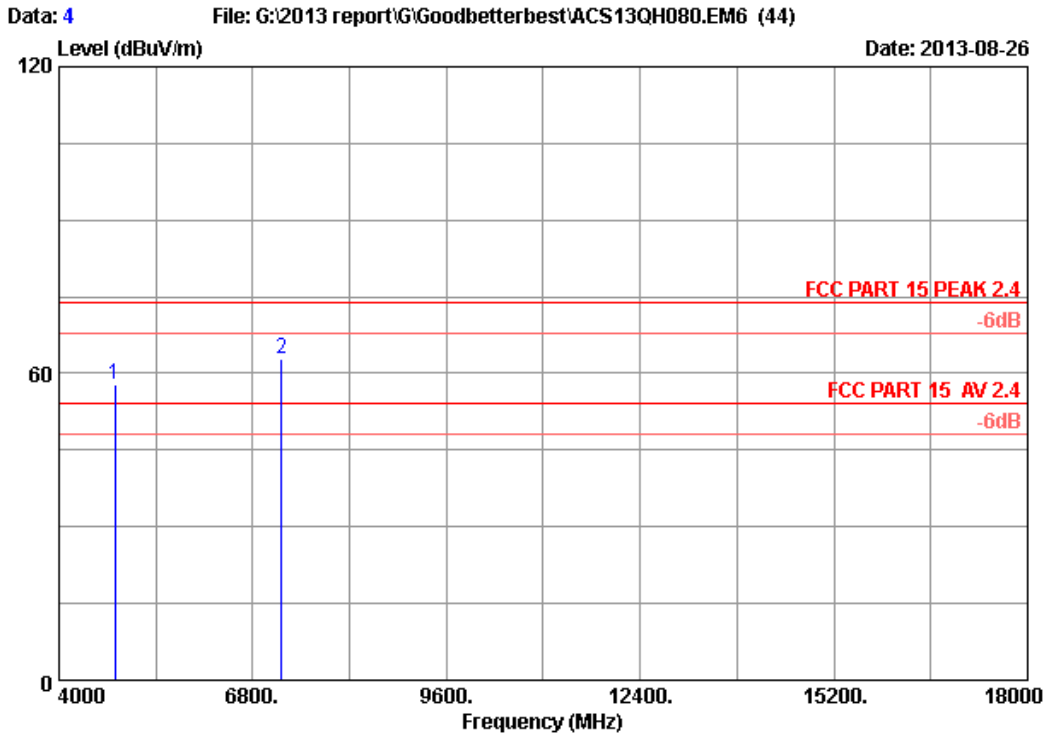
	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2405.000	26.79	5.80	35.70	101.85	98.74	114.00	15.26	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 3
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : EX-06 Wireless Gaming Foldable Headset 2.4G
Power supply : DC 5V From PC Input AC 120V/60Hz
Test mode : 2405MHz Tx
EX6UNI-21



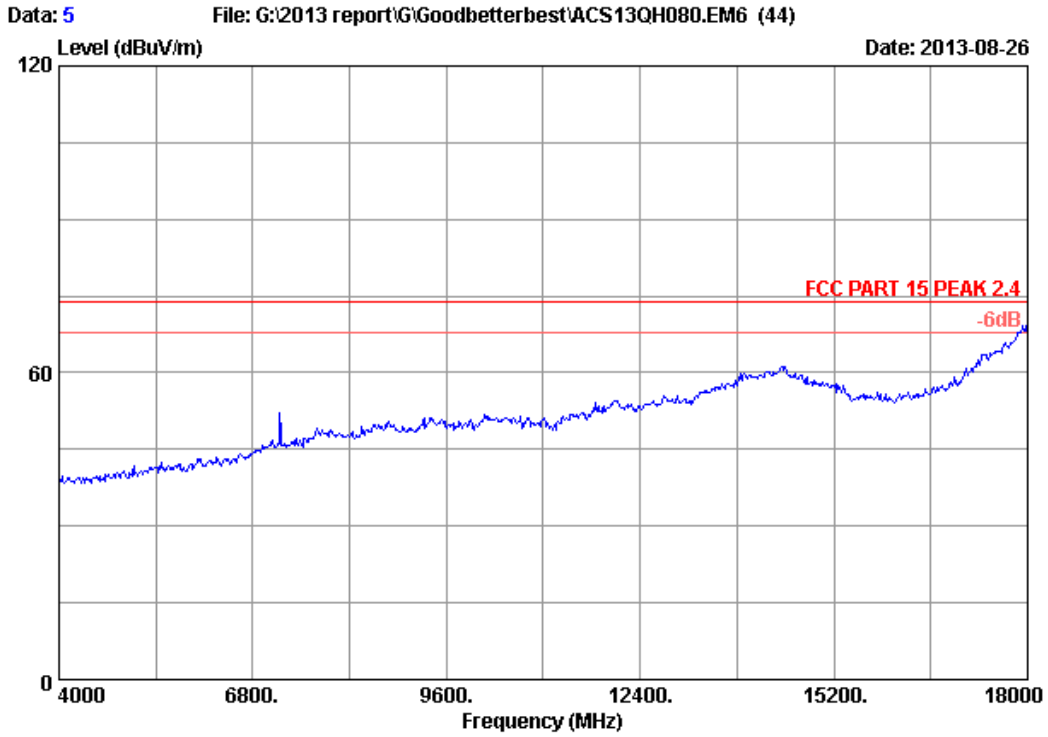
Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : EX-06 Wireless Gaming Foldable Headset 2.4G
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : 2405MHz Tx
 EX6UNI-21

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4810.000	32.48	8.57	35.70	52.35	57.70	74.00	16.30	Peak
2	7215.000	35.46	10.97	35.46	51.87	62.84	74.00	11.16	Peak

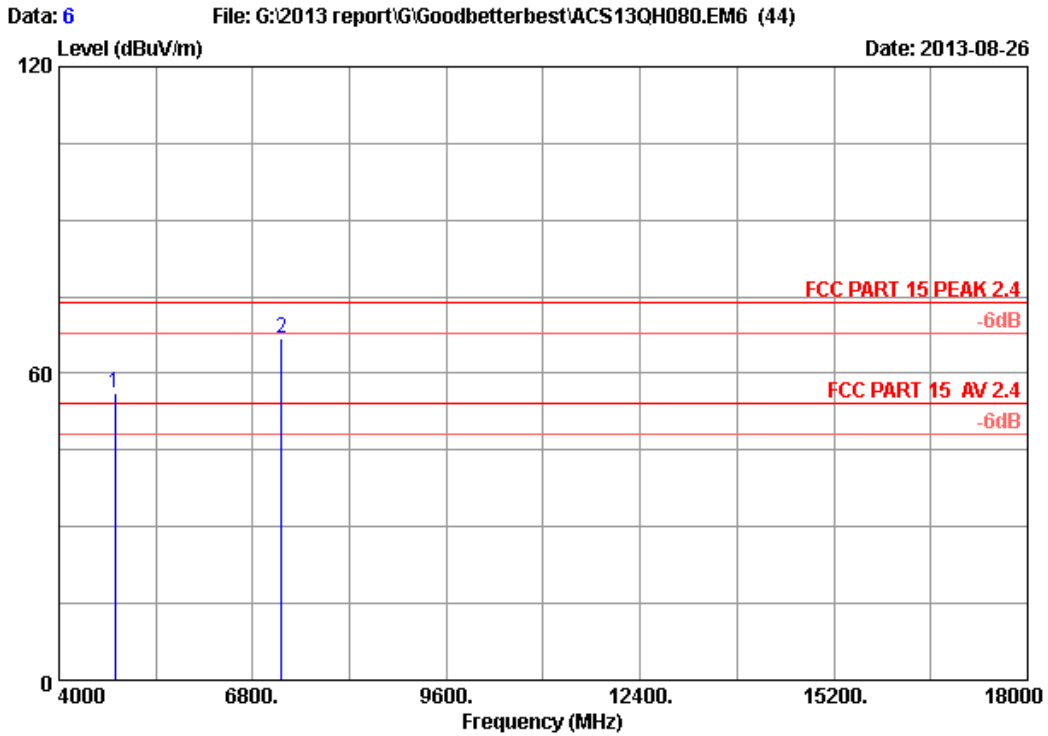
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
4810.000	57.70	51.53	6.17	54	Pass
7215.000	62.84	51.53	11.31	54	Pass



Site no. : 3m Chamber Data no. : 5
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : EX-06 Wireless Gaming Foldable Headset 2.4G
Power supply : DC 5V From PC Input AC 120V/60Hz
Test mode : 2405MHz Tx
EX6UNI-21



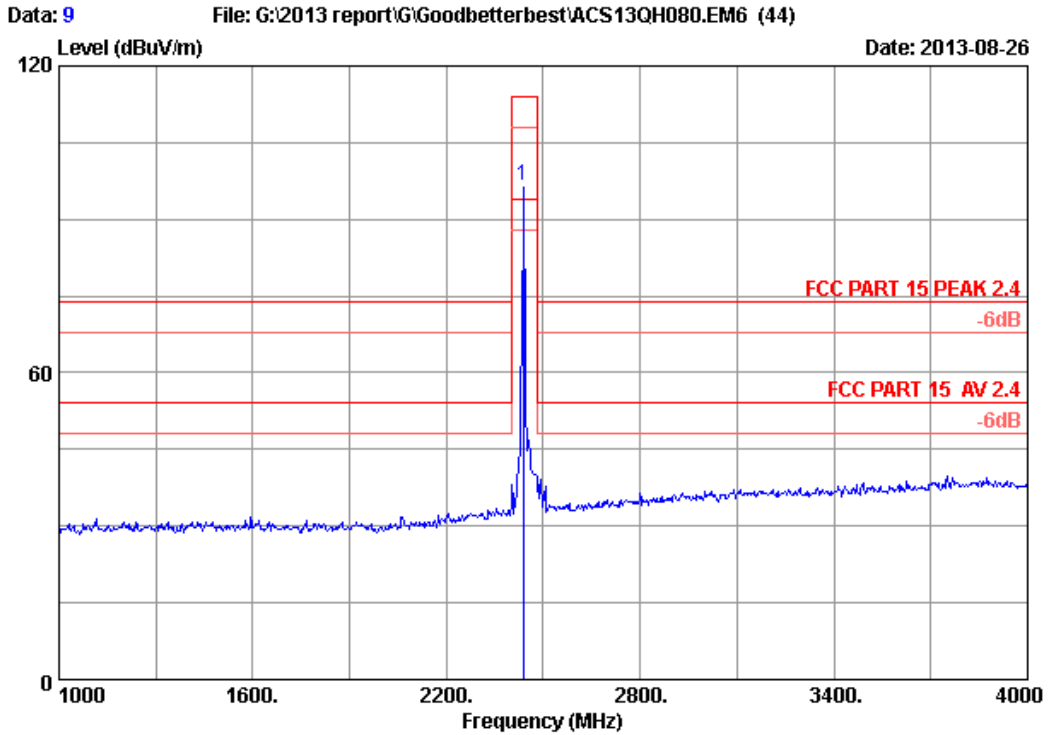
Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : EX-06 Wireless Gaming Foldable Headset 2.4G
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : 2405MHz Tx
 EX6UNI-21

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4810.000	32.48	8.57	35.70	50.74	56.09	74.00	17.91	Peak
2	7215.000	35.46	10.97	35.46	56.02	66.99	74.00	7.01	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
4810.000	56.09	51.53	4.56	54	Pass
7215.000	66.99	51.53	15.46	54	Pass

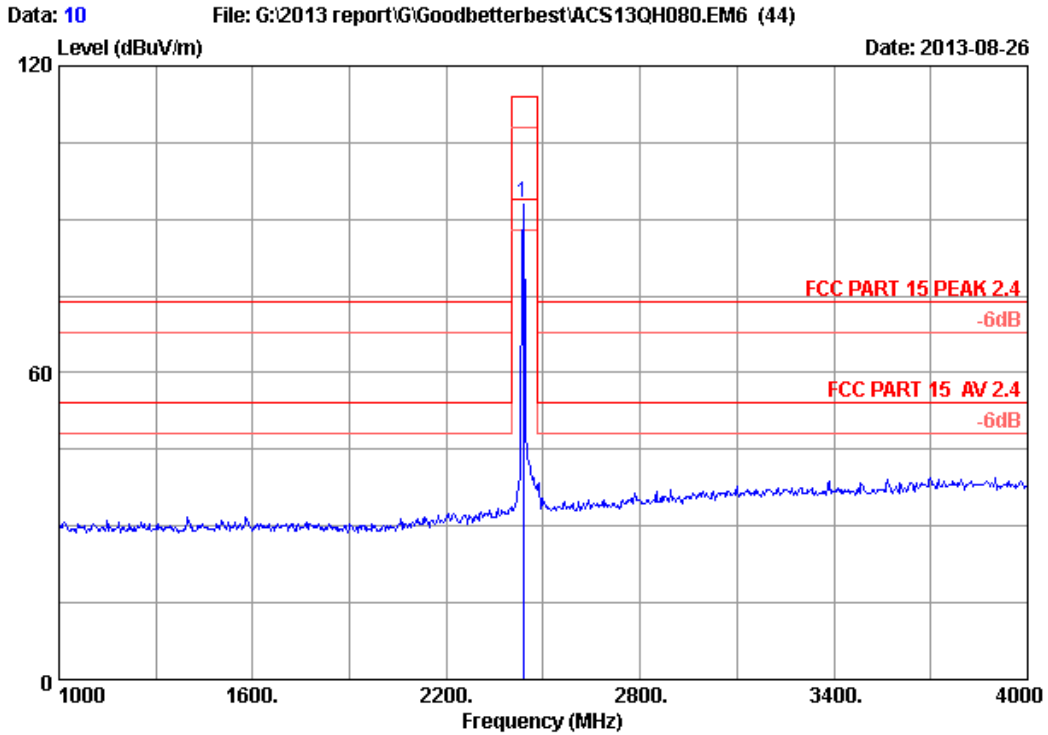


Site no. : 3m Chamber Data no. : 9
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : EX-06 Wireless Gaming Foldable Headset 2.4G
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : 2438MHz Tx
 EX6UNI-21

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission			Remark
					Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1 2438.000	27.00	5.85	35.70	99.38	96.53	114.00	17.47	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

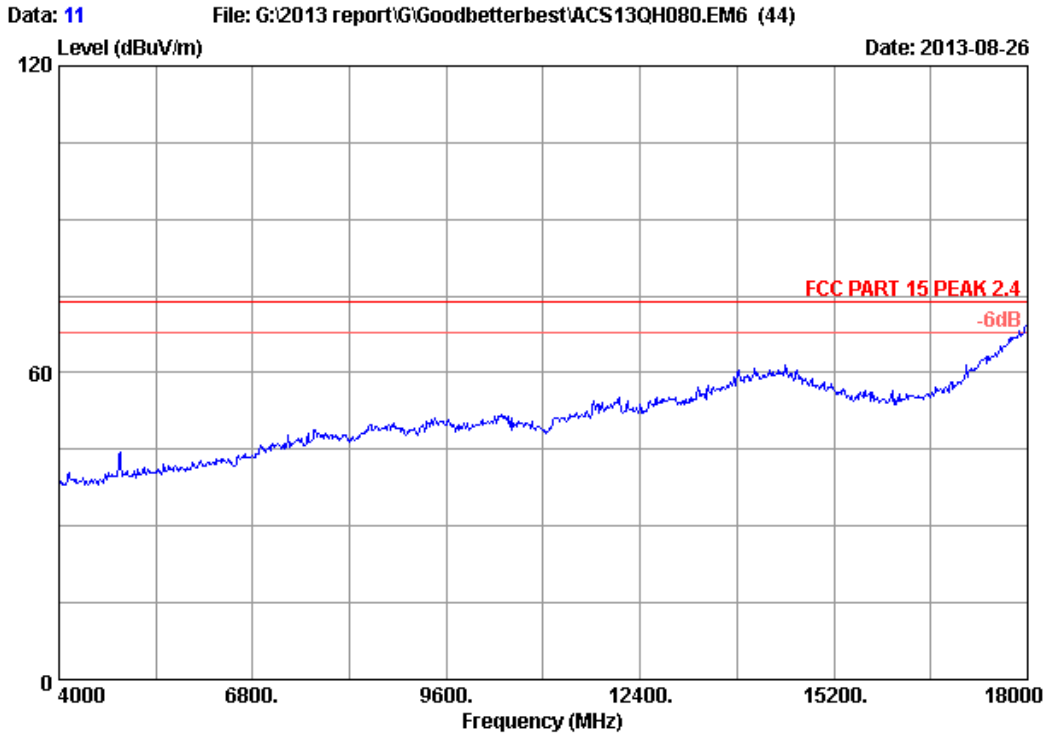


Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : EX-06 Wireless Gaming Foldable Headset 2.4G
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : 2438MHz Tx
 EX6UNI-21

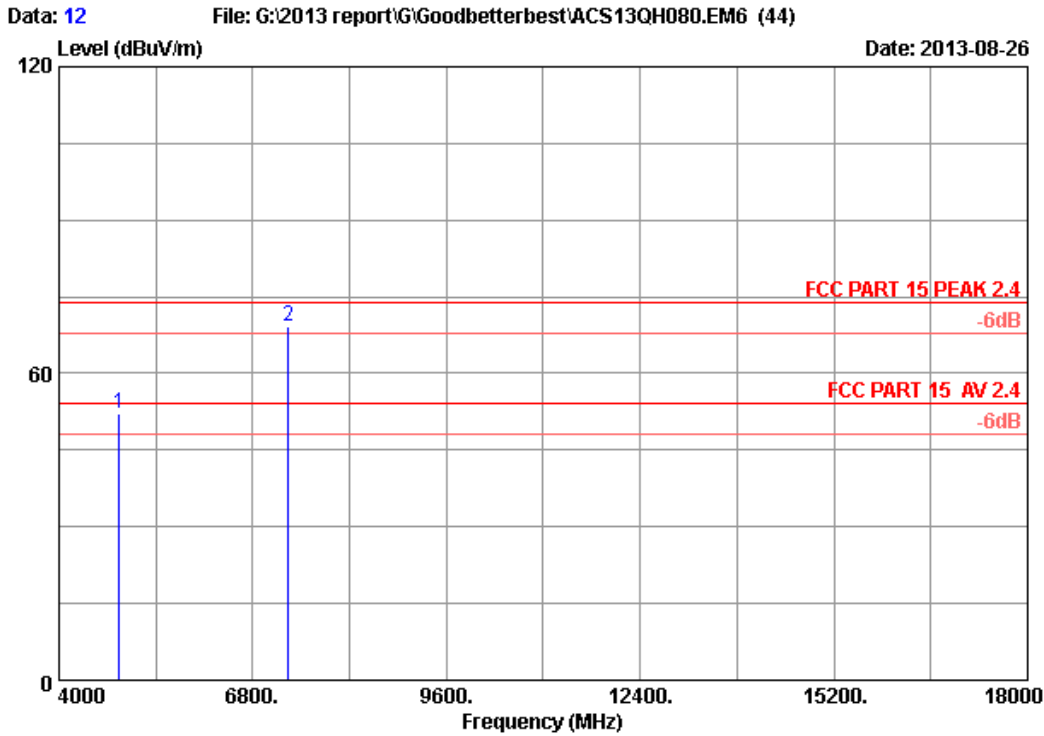
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission			Remark
					Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1 2438.000	27.00	5.85	35.70	96.21	93.36	114.00	20.64	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 11
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : EX-06 Wireless Gaming Foldable Headset 2.4G
Power supply : DC 5V From PC Input AC 120V/60Hz
Test mode : 2438MHz Tx
EX6UNI-21



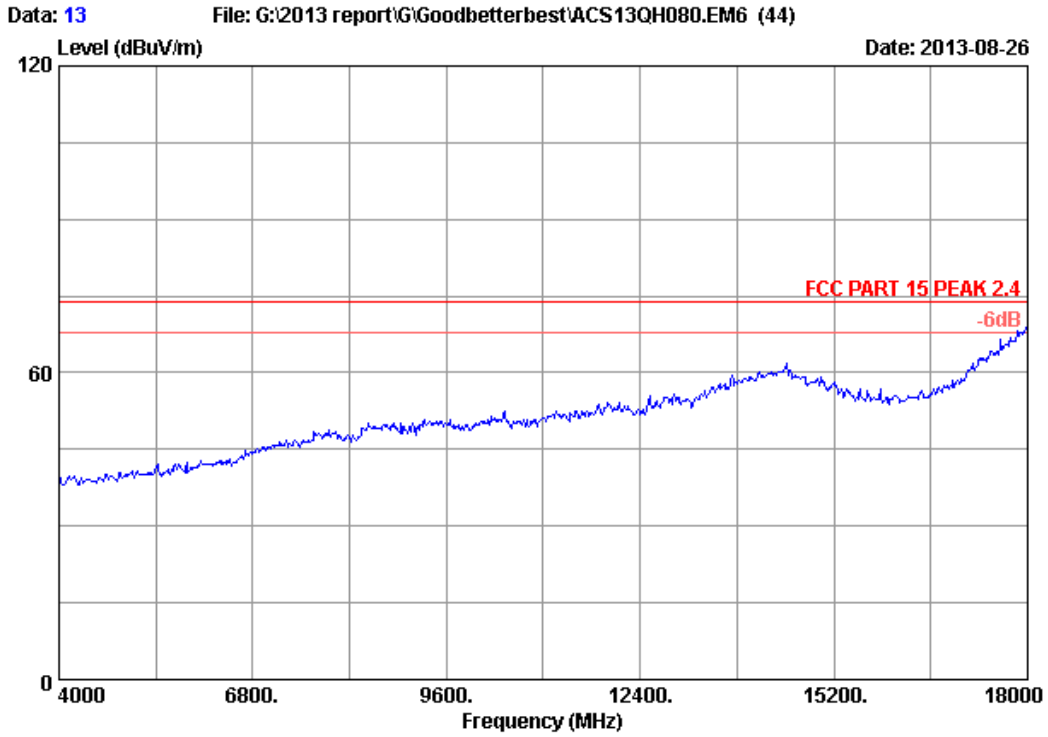
Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : EX-06 Wireless Gaming Foldable Headset 2.4G
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : 2438MHz Tx
 EX6UNI-21

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4876.000	32.63	8.64	35.70	46.49	52.06	74.00	21.94	Peak
2	7314.000	35.72	11.02	35.44	57.75	69.05	74.00	4.95	Peak

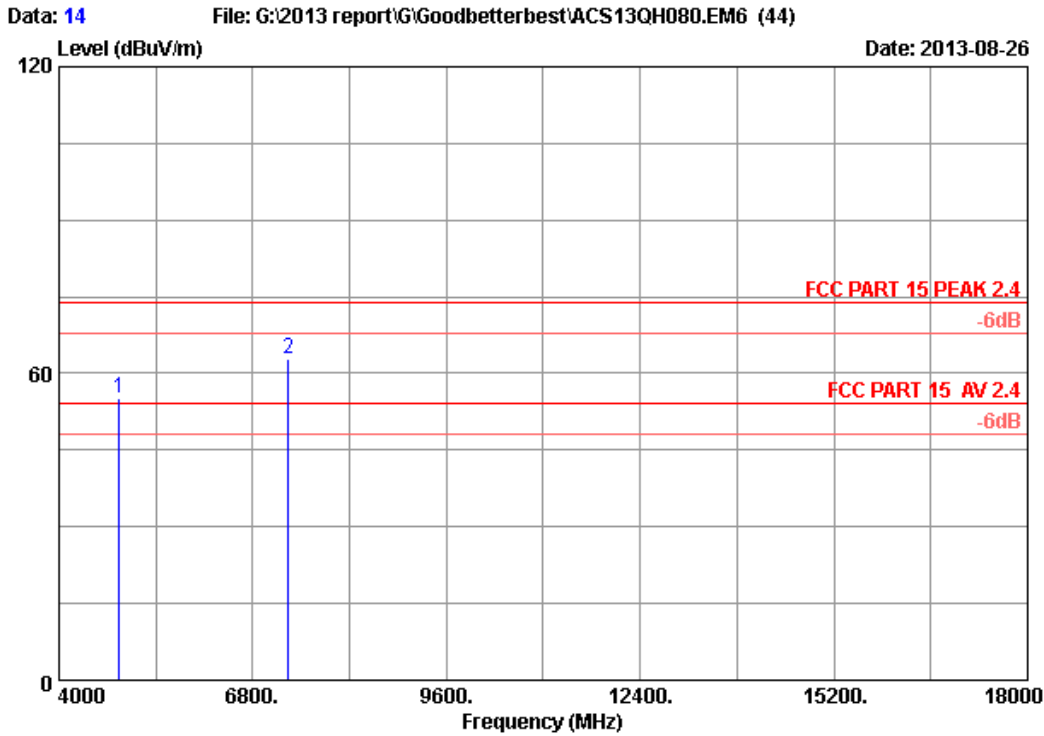
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
7314.000	69.05	51.53	17.52	54	Pass



Site no. : 3m Chamber Data no. : 13
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : EX-06 Wireless Gaming Foldable Headset 2.4G
Power supply : DC 5V From PC Input AC 120V/60Hz
Test mode : 2438MHz Tx
EX6UNI-21



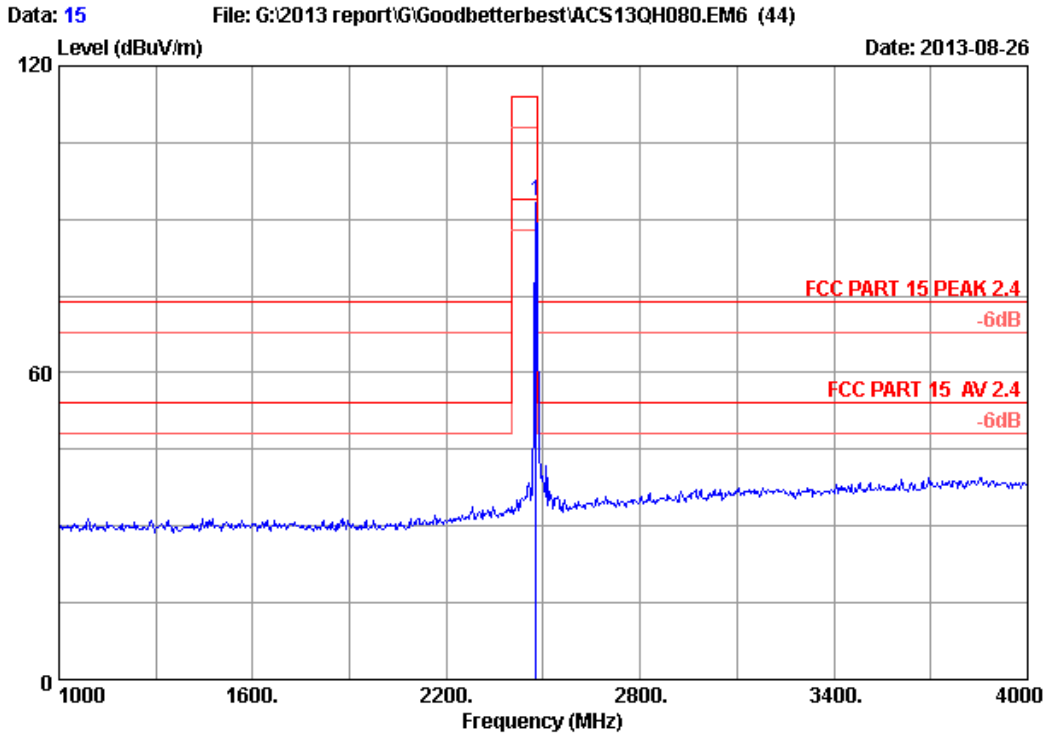
Site no. : 3m Chamber Data no. : 14
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : EX-06 Wireless Gaming Foldable Headset 2.4G
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : 2438MHz Tx
 EX6UNI-21

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4876.000	32.63	8.64	35.70	49.46	55.03	74.00	18.97	Peak
2	7314.000	35.72	11.02	35.44	51.67	62.97	74.00	11.03	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
4876.000	55.03	51.53	3.5	54	Pass
7314.000	62.97	51.53	11.44	54	Pass

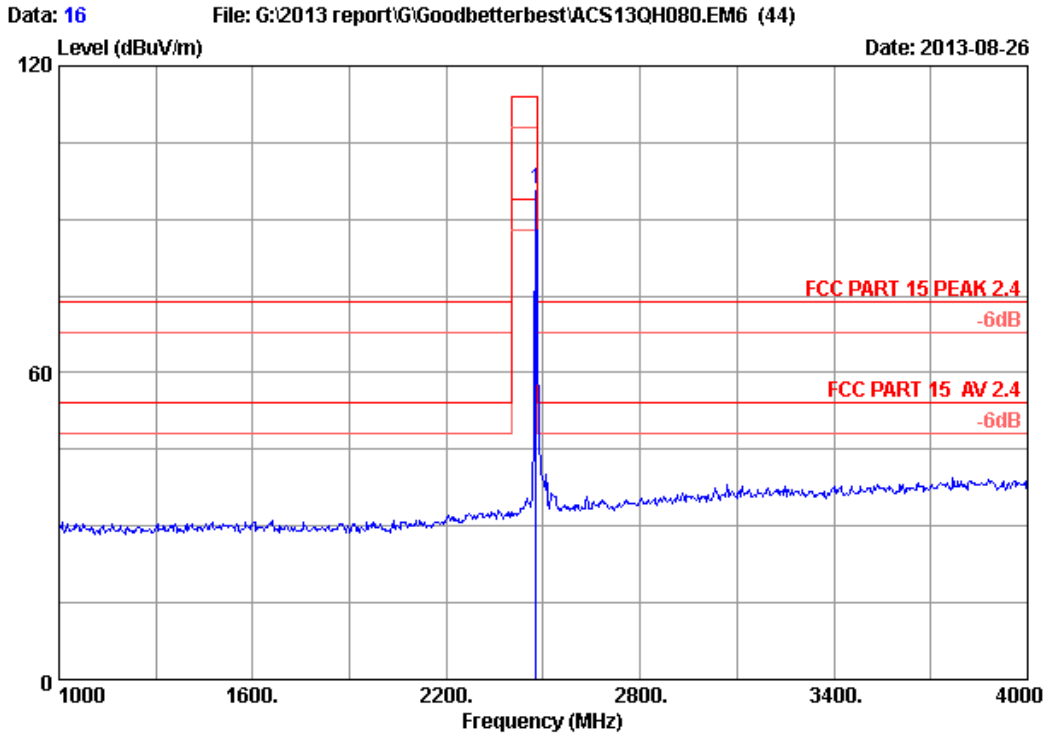


Site no. : 3m Chamber Data no. : 15
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : EX-06 Wireless Gaming Foldable Headset 2.4G
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : 2478MHz Tx
 EX6UNI-21

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission			Remark
					Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1 2478.000	27.26	5.91	35.70	96.08	93.55	114.00	20.45	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

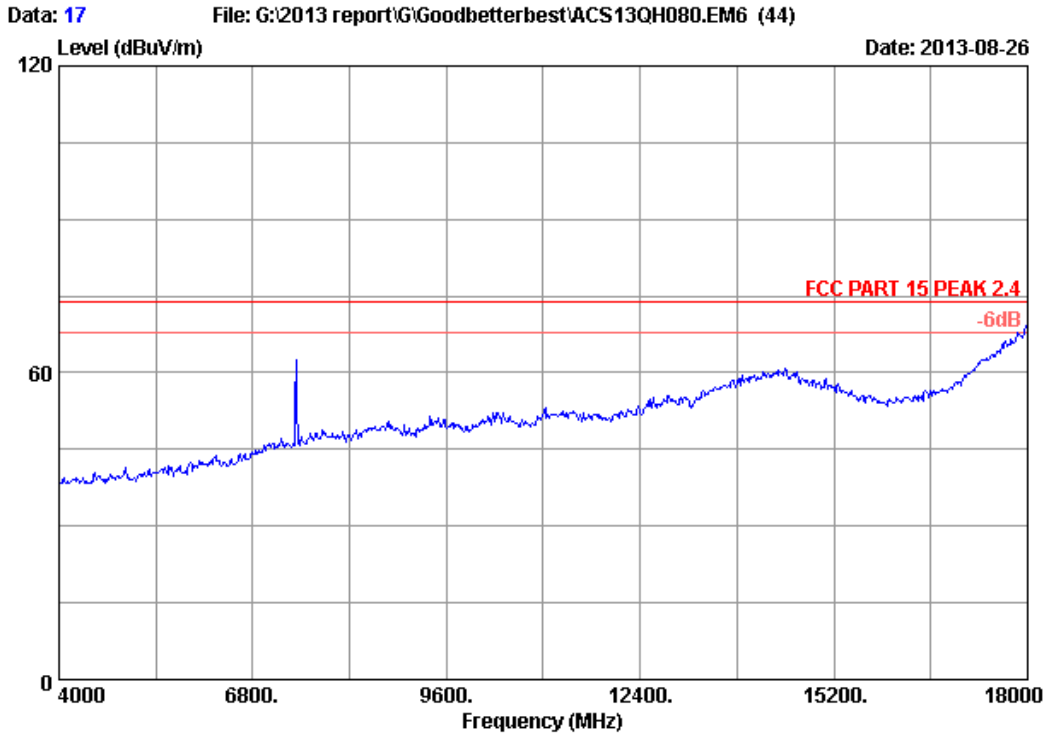


Site no. : 3m Chamber Data no. : 16
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : EX-06 Wireless Gaming Foldable Headset 2.4G
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : 2478MHz Tx
 EX6UNI-21

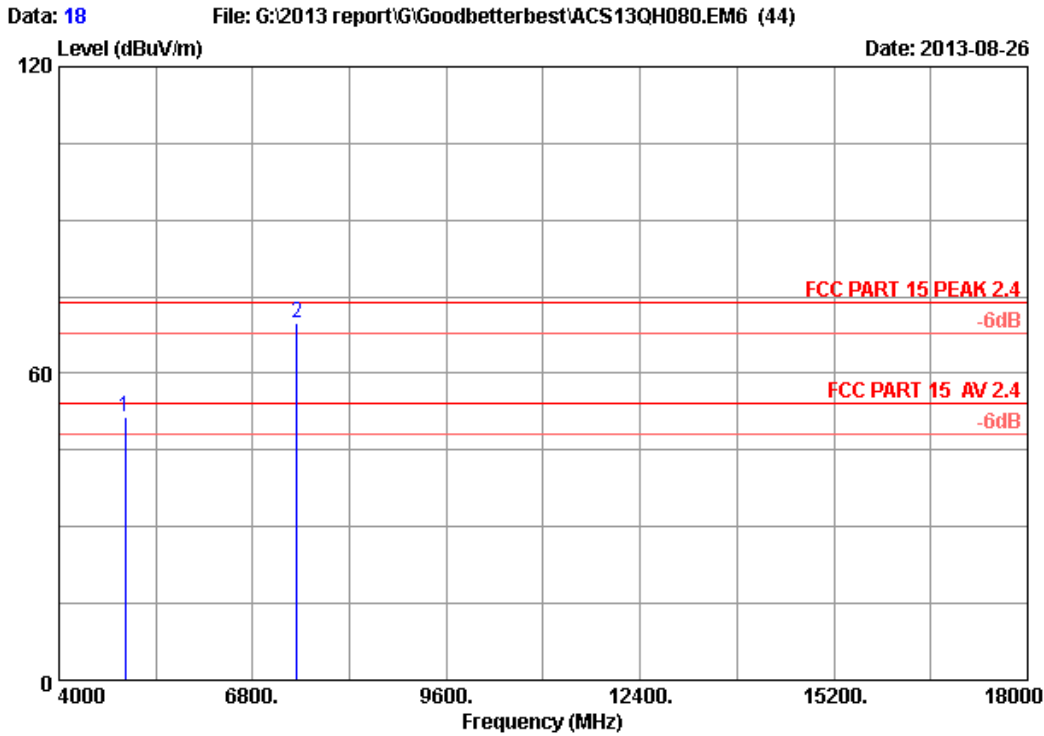
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2478.000	27.26	5.91	35.70	98.61	96.08	114.00	17.92	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 17
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : EX-06 Wireless Gaming Foldable Headset 2.4G
Power supply : DC 5V From PC Input AC 120V/60Hz
Test mode : 2478MHz Tx
EX6UNI-21



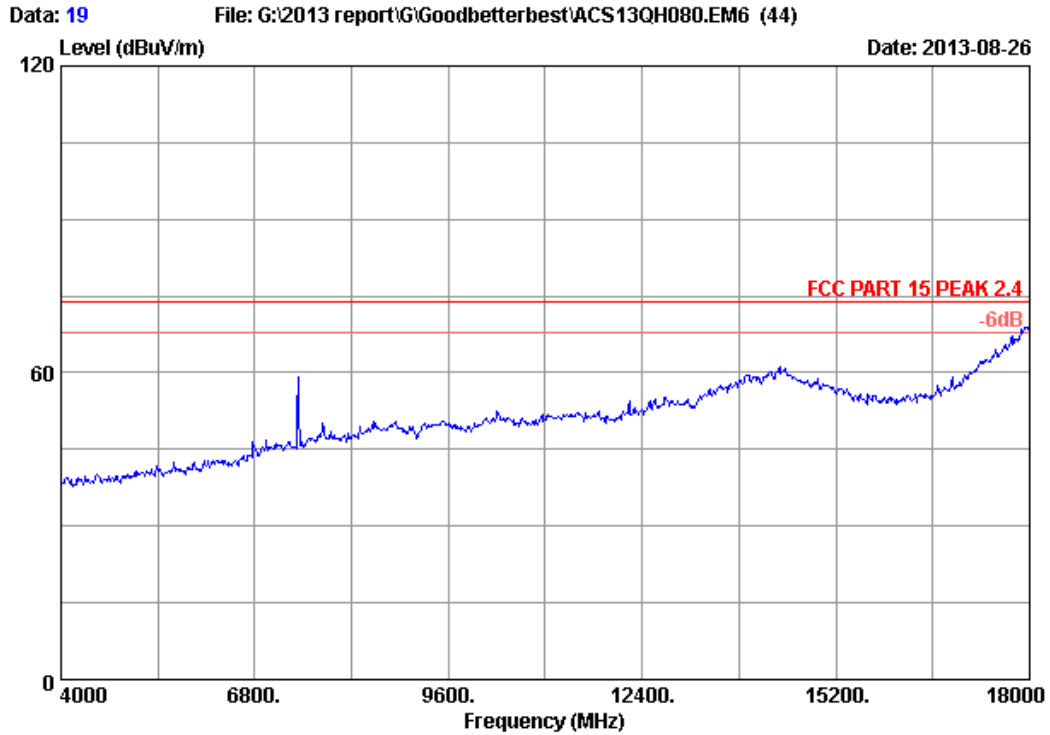
Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : EX-06 Wireless Gaming Foldable Headset 2.4G
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : 2478MHz Tx
 EX6UNI-21

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4956.000	32.80	8.72	35.70	45.72	51.54	74.00	22.46	Peak
2	7434.000	36.03	11.09	35.41	58.18	69.89	74.00	4.11	Peak

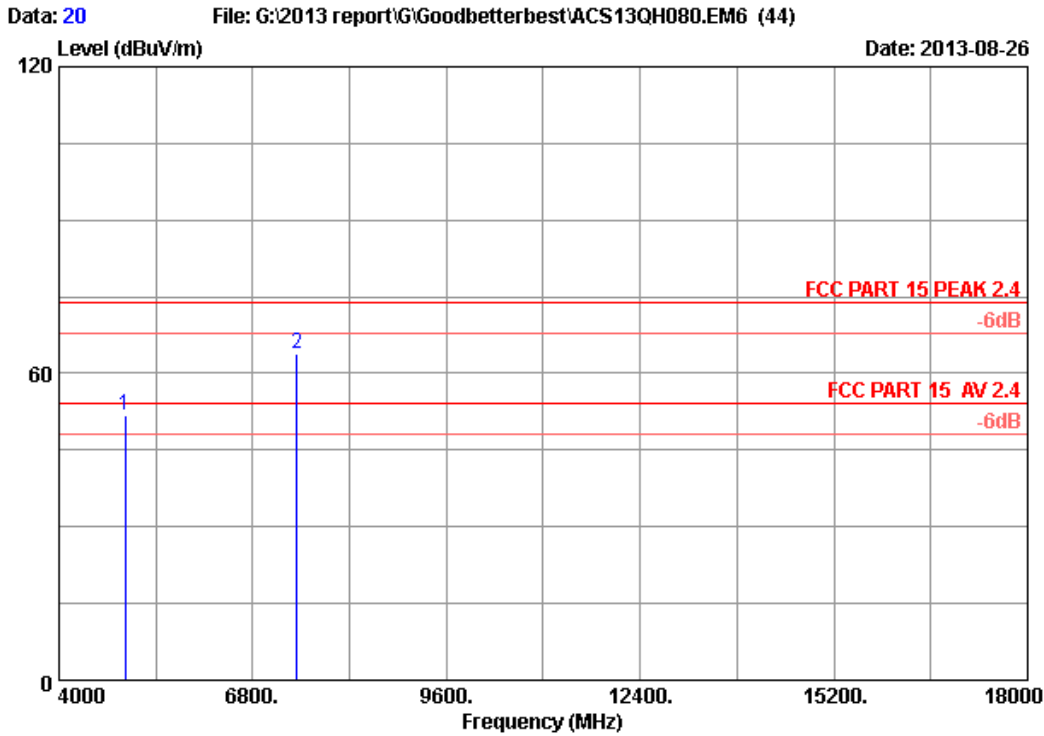
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
7434.000	69.89	51.53	18.36	54	Pass



Site no. : 3m Chamber Data no. : 19
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23*C/54% Engineer : Leo-Li
EUT : EX-06 Wireless Gaming Foldable Headset 2.4G
Power supply : DC 5V From PC Input AC 120V/60Hz
Test mode : 2478MHz Tx
EX6UNI-21



Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : EX-06 Wireless Gaming Foldable Headset 2.4G
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : 2478MHz Tx
 EX6UNI-21

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4956.000	32.80	8.72	35.70	45.96	51.78	74.00	22.22	Peak
2	7434.000	36.03	11.09	35.41	52.11	63.82	74.00	10.18	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
7434.000	63.82	51.53	12.29	54	Pass

5. 20 DB BANDWIDTH TEST

5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	May.08, 13	1 Year

5.2. Limit

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

5.3. Test Results

EUT: EX-06 Wireless Gaming Foldable Headset 2.4G		
M/N: EX6UNI-21		
Test date: 2013-09-10	Pressure: 101.4±1.0 kpa	Humidity: 53.4±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature : 23 .4±0.6°C

Cable loss: 1 dB	Attenuator loss: 10 dB	
Frequency	20dB bandwidth (KHz)	Limit (KHz)
2405	2664	N/A
2438	2965	N/A
2478	2611	N/A
Conclusion : PASS		

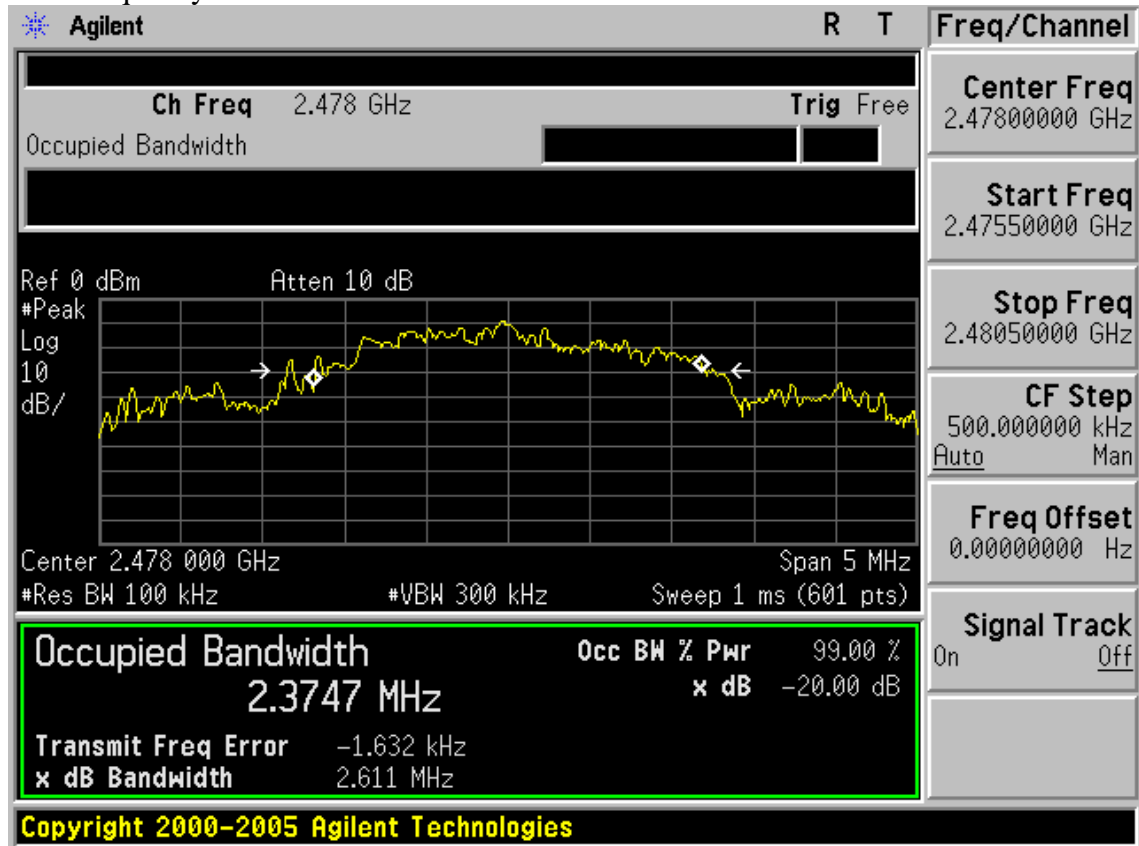
Test Frequency: 2405MHz



Test Frequency: 2438MHz



Test Frequency: 2478MHz



6. BAND EDGE COMPLIANCE TEST

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	May.08, 13	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 13	1 Year
3.	Antenna	EMCO	3115	9510-4580	May.08, 13	1Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 13	1 Year

6.2. Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

6.3. Test Produce

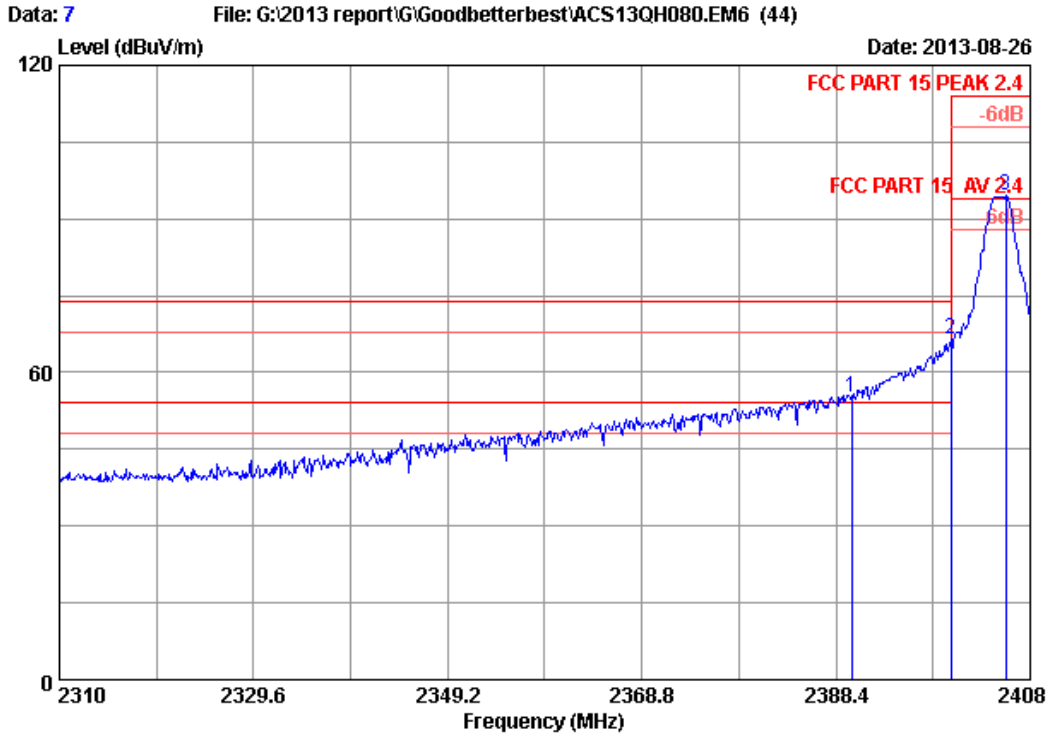
1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upperband-edges of the emission:
 - (a) PEAK: RBW=1MHz ;VBW=3MHz, PK detector, Sweep=AUTO
 - (b) This device is pulse modulated, a duty cycle factor was used to calculate average level based measured peak level

6.4. Test Results

Pass (The testing data was attached in the next pages.)

Note: If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

Note: The duty cycle factor for calculate average level is 51.53dB, and average limit is 20dB below peak limit, so if peak measured level comply with peak limit, the average level was deemed to comply with average limit.



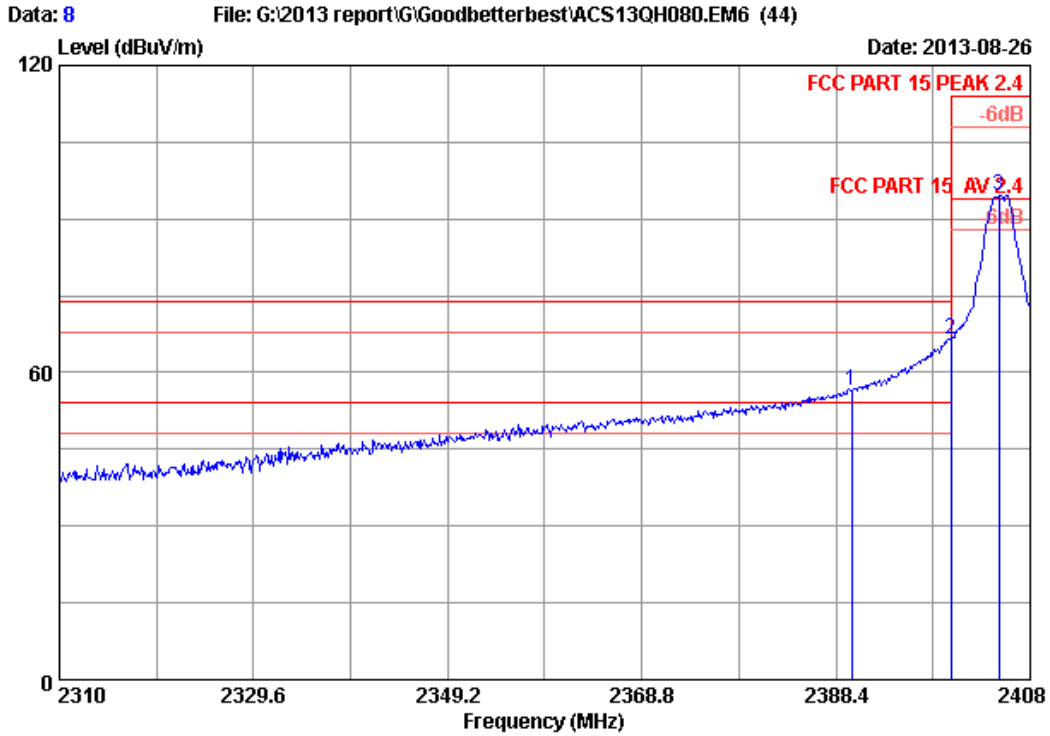
Site no. : 3m Chamber Data no. : 7
 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : EX-06 Wireless Gaming Foldable Headset 2.4G
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : 2405MHz Tx
 EX6UNI-21

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2390.000	23.80	5.78	35.70	61.28	55.16	74.00	18.84	Peak
2	2400.000	23.79	5.80	35.70	72.59	66.48	74.00	7.52	Peak
3	2405.550	23.79	5.81	35.70	100.53	94.43	114.00	19.57	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBUV/m)	Duty cycle factor (dB)	AV level (dBUV/m)	Limit(dBUV/m)	Conclusion
2390.000	55.16	51.53	3.63	54	Pass
2400.000	66.48	51.53	14.95	54	Pass



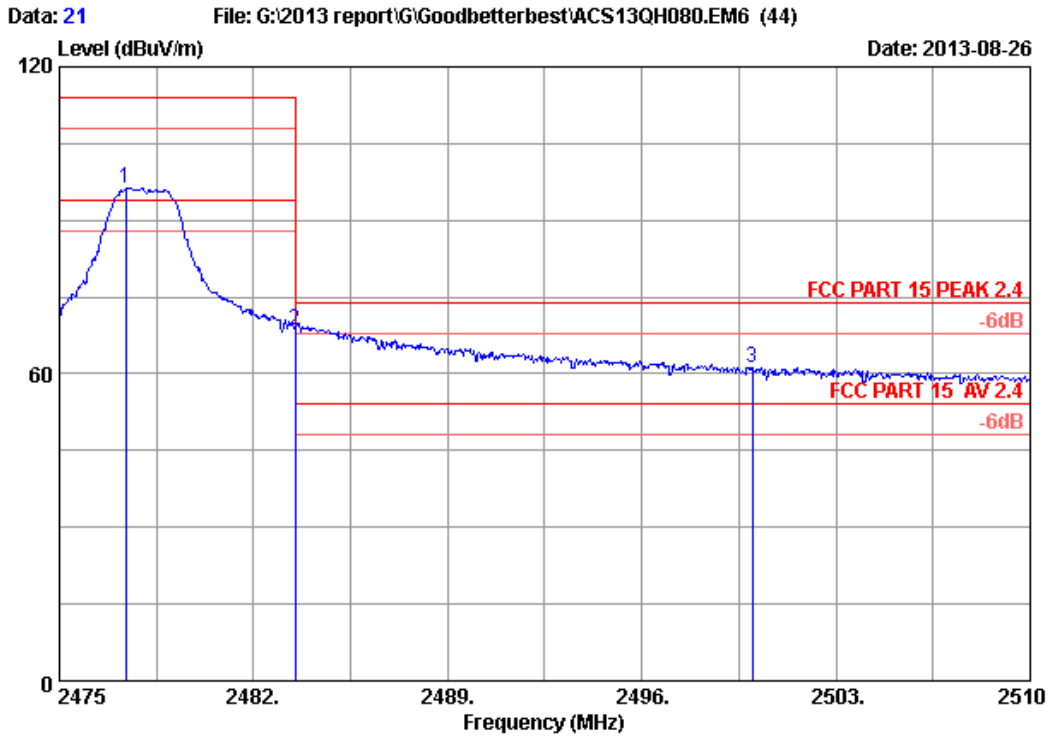
Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : EX-06 Wireless Gaming Foldable Headset 2.4G
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : 2405MHz Tx
 EX6UNI-21

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	23.80	5.78	35.70	62.63	56.51	74.00	17.49	Peak
2	2400.000	23.79	5.80	35.70	72.79	66.68	74.00	7.32	Peak
3	2404.864	23.79	5.80	35.70	100.73	94.62	114.00	19.38	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
2390.000	56.51	51.53	4.98	54	Pass
2400.000	66.68	51.53	15.15	54	Pass



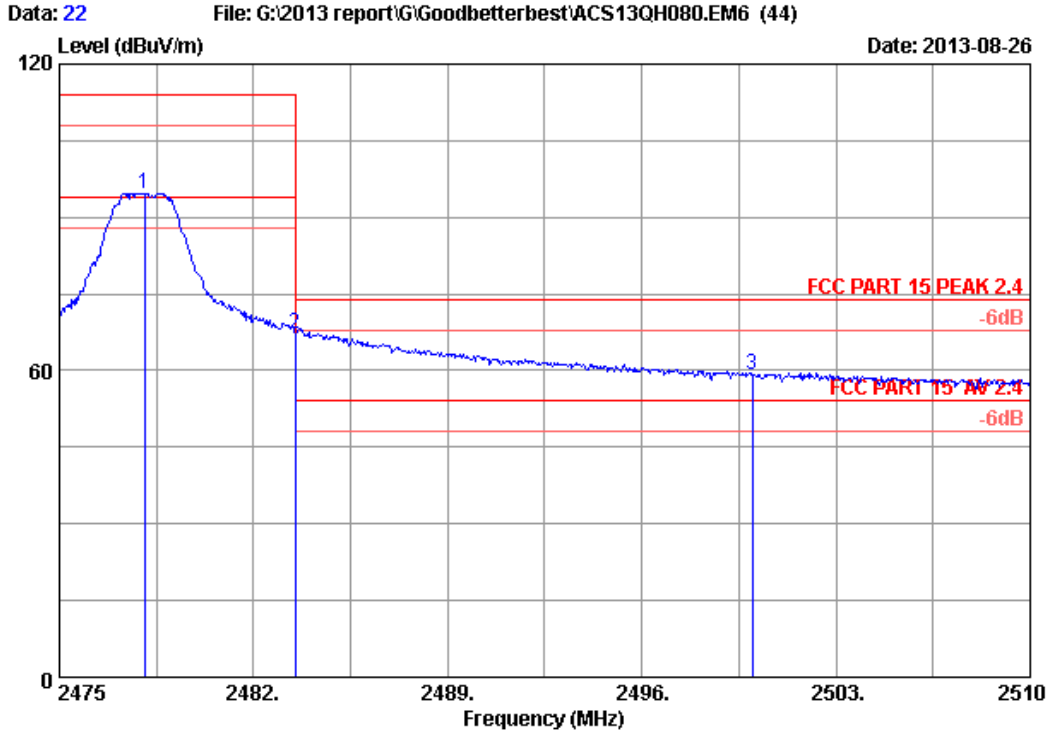
Site no. : 3m Chamber Data no. : 21
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : EX-06 Wireless Gaming Foldable Headset 2.4G
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : 2478MHz Tx
 EX6UNI-21

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2477.380	27.26	5.91	35.70	98.80	96.27	114.00	17.73	Peak
2	2483.500	27.29	5.92	35.70	71.07	68.58	74.00	5.42	Peak
3	2500.000	27.40	5.94	35.70	63.40	61.04	74.00	12.96	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
2383.000	68.58	51.53	17.05	54	Pass
2500.000	61.04	51.53	9.51	54	Pass



Site no. : 3m Chamber Data no. : 22
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : EX-06 Wireless Gaming Foldable Headset 2.4G
 Power supply : DC 5V From PC Input AC 120V/60Hz
 Test mode : 2478MHz Tx
 EX6UNI-21

	Freq.	Ant. Factor	Cable loss	Amp. Factor	Reading	Emission Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2478.080	27.26	5.91	35.70	97.23	94.70	114.00	19.30	Peak
2	2483.500	27.29	5.92	35.70	69.68	67.19	74.00	6.81	Peak
3	2500.000	27.40	5.94	35.70	61.61	59.25	74.00	14.75	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
2383.000	67.19	51.53	15.66	54	Pass
2500.000	59.25	51.53	7.72	54	Pass

7. ANTENNA REQUIREMENT

RESULT : **PASS**

Test Date : Aug.26~Sep.21, 2013

Test standard : FCC Part 15.203

Limit : the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 0dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply the provision.

8. RADIO FRREQUENCY EXPOSURE COMPLIANCE

RESULT : **PASS**

Test standard : FCC KDB Publication 447498 D01 V05

Since maximum peak output power of the transmitter is $<10\text{mW}$, i.e. $0.009346\text{mW} < 10\text{mW}$, hence the EUT is excluded from SAR evaluation according to FCC KDB Publication 447498 D01:General RF Exposure Guidance V05.

9. DEVIATION TO TEST SPECIFICATIONS

[NONE]