

APPLICATION FOR CERTIFICATION
On Behalf of

RedOctane, Inc.

Guitar Hero World Tour - PS2 Wireless Guitar

Model Number: 95449.805

FCC ID: VFIBW95449805

Prepared for : RedOctane, Inc.
955 Benecia Avenue Sunnyvale, CA 94085, United States

Prepared By : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block,
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Report Number : ACS-F08324
Date of Test : Jun.23~24, 2008
Date of Report : Jul.08, 2008

TABLE OF CONTENTS

Description	Page
1. SUMMARY OF STANDARDS AND RESULTS	1-1
1.1. Description of Standards and Results.....	1-1
2. GENERAL INFORMATION	2-1
2.1. Description of Device (EUT)	2-1
2.2. Test Facility.....	2-2
2.3. Test Uncertainty	2-2
3. POWER LINE CONDUCTED EMISSION TEST	3-1
4. RADIATED EMISSION TEST	4-1
4.1. Test Equipment	4-1
4.2. Block Diagram of Test Setup	4-1
4.3. Radiated Emission Limit Standard: FCC 15.249	4-2
4.4. EUT Configuration on Test.....	4-2
4.5. Operating Condition of EUT.....	4-3
4.6. Test Procedure.....	4-3
4.7. Radiated Emission Test Results	4-3
5. BAND EDGE COMPLIANCE TEST	5-1
5.1. Test Equipment	5-1
5.2. Limit.....	5-1
5.3. Test Produce	5-1
5.4. Test Results	5-1
6. 20DB BANDWIDTH TEST	6-1
6.1. Test Equipment	6-1
6.2. Test Information	6-1
6.3. Test Results	6-1
7. DEVIATION TO TEST SPECIFICATIONS	7-1
8. PHOTOGRAPH.....	8-1
8.1. Photos of Radiated Emission Test (In Anechoic Chamber).....	8-1

TEST REPORT CERTIFICATION

Applicant : RedOctane, Inc.
 Manufacturer : Berway Technology Ltd.
 EUT Description : Guitar Hero World Tour - PS2 Wireless Guitar
 FCC ID : VFIBW95449805
 (A) MODEL NO. : 95449.805
 (B) SERIAL NO. : N/A
 (C) POWER SUPPLY : DC 3V
 (D) TEST VOLTAGE : DC 3V

Test Procedure Used:

FCC Rules and Regulations Part 15 Subpart C 2007

The device described above is tested by Audix Technology (Shenzhen) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits for radiated and conducted emissions. 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 tests. Also, this report shows that EUT is technically compliant with FCC requirements.

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.

Date of Test : Jun.23~24, 2008

Prepared by : YoYo Wang
YoYo Wang / Assistant

Reviewer : Jamy Yu
Jamy Yu / Senior Engineer



Approved & Authorized Signer : Ken Lu
Ken Lu / Deputy 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 C63.4-2003	N/A
Radiated Emission Test	FCC Part 15C: 15.249 ANSI C63.4-2003	PASS
Band Edge Compliance Test	FCC Part 15: 15.249	PASS
20dB Bandwidth Test	FCC Part 15: 15.215	PASS
N/A is an abbreviation for Not Applicable.		

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Product name	:	Guitar Hero World Tour - PS2 Wireless Guitar
Model Number	:	95449.805
FCC ID	:	VFIBW95449805
Operation frequency	:	2410MHz~2470MHz
Modulation	:	MSK
Power Supply	:	DC 3V (Note: New batteries were used for all test.)
Applicant	:	RedOctane, Inc. 955 Benecia Avenue Sunnyvale, CA 94085, United States
Manufacturer	:	Berway Technology Ltd. Unit 1301-03, 13/F., No.88 Kwai Cheong Road, Kwai Chung, N.T., H.K.
Date of Test	:	Jun.23~24, 2008
Date of Receipt	:	Jun.16, 2008
Sample Type	:	Prototype production

Note: This EUT has two parts, one is guitar, the other one is dongle. We test “guitar” in this report.

2.2. Test Facility

Site Description

- Name of Firm : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block, Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China
- 3m Anechoic Chamber : Jun. 13, 2006 File on Federal Communication Commission
Registration Number: 90454
- 3m & 10m Anechoic Chamber : Jan. 31, 2007 File on Federal Communication Commission
Registration Number: 794232
- EMC Lab. : Accredited by DATech, German
Registration Number: DAT-P-091/99-01
Dec. 20, 2007
- Accredited by NVLAP, USA
NVLAP Code: 200372-0
Apr.01, 2008

2.3. Test Uncertainty

No.	Item	MU	Remark
1.	Uncertainty for Conducted Emission Test	2.02dB	
2.	Uncertainty for Radiation Emission test in 3m chamber	3.44 dB	Polarize: V
		3.96 dB	Polarize: H
3.	Uncertainty for Radiation Emission test in 10m chamber	3.46 dB	Distance: 10m Polarize: V
		3.82 dB	Distance: 10m Polarize: H
		3.64 dB	Distance: 3m Polarize: V
		4.02 dB	Distance: 3m Polarize: H

3. POWER LINE CONDUCTED EMISSION TEST

According to Paragraph (f) of FCC Part 15 section 15.207, Tests to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines.

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	Jun 09,08	1/2 Year
2.	EMI Spectrum	Agilent	E7403A	MY42000106	May 10, 08	1 Year
3.	Test Receiver	Rohde & Schwarz	ESVS20	830350/005	May 10, 08	1 Year
4.	Amplifier	HP	8447D	2648A04738	Jan 09, 08	1/2 Year
5.	Bilog Antenna	Schaffner	CBL6112D	25237	Feb 21, 08	1 Year
6.	RF Cable	JINGCHENG	KLMR400	3# Chamber No.1	Jan 09, 08	1/2 Year
7.	RF Cable	JINGCHENG	JB400	3# Chamber No.2	Jan 09, 08	1/2 Year
8.	RF Cable	JINGCHENG	JB400	3# Chamber No.3	Jan 09, 08	1/2 Year
9.	RF Cable	JINGCHENG	JB400	3# Chamber No.4	Jan 09, 08	1/2 Year
10.	Coaxial Switch	Anritsu	MP59B	M73989	Jan 09, 08	1/2 Year

Frequency rang: above 1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	MY41440292	May 10, 08	1 Year
2.	Amp	HP	8449B	3008A00863	May 10, 08	1 Year
3.	Antenna	EMCO	3115	9607-4877	May 27, 08	1.5 Year
4.	Antenna	EMCO	3116	00060088	May 28, 07	1.5Year
5.	HF Cable	Hubersuhne	Sucoflex104	-	May 10, 08	1 Year

4.2. Block Diagram of Test Setup

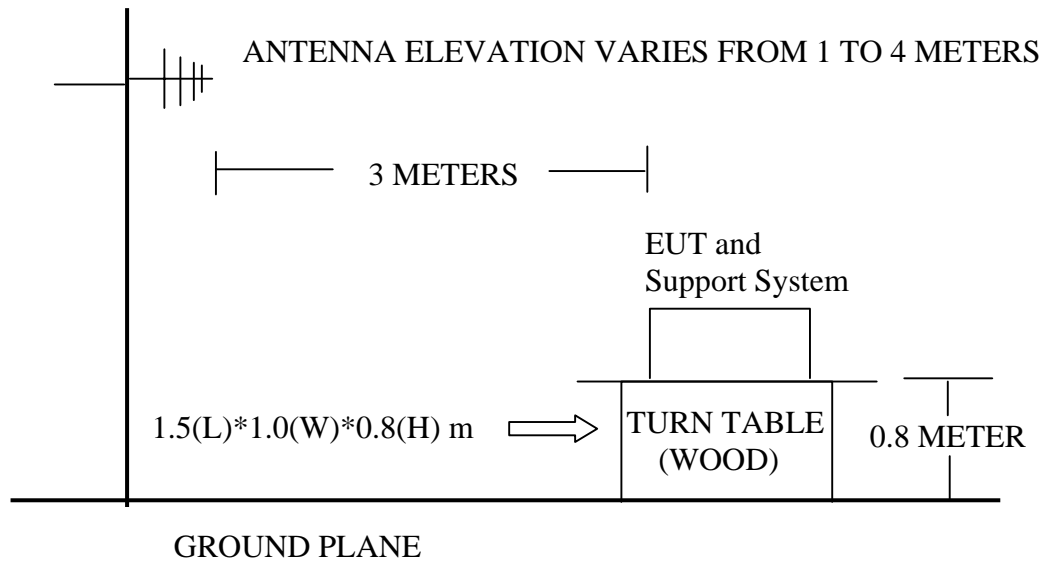
4.2.1. Block Diagram of connection between EUT and simulators



(EUT: Guitar Hero World Tour - PS2 Wireless Guitar)

4.2.2. Anechoic Chamber Setup Diagram

ANTENNA TOWER



4.3. Radiated Emission Limit Standard: FCC 15.249

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Local Oscillator:	3	114.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 94.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	
Above 1000	3	Other: 74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

- Remark :
- (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ 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.

4.4. 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.

4.4.1. Guitar Hero World Tour - PS2 Wireless Guitar (EUT)

Model Number : 95449.805
 Serial Number : N/A

4.4.2. Support Equipment: As Tested Supporting System Detail, in Section 2.2.

4.5. Operating Condition of EUT

4.5.1. Setup the EUT as shown in Section 4.2..

4.5.2. Let the EUT work in test modes (TX Mode) and test it.

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 C63.4-2003 on radiated emission Test.

This test was performed with EUT in X, Y, Z position, and the worse case was found when EUT in X position and this position was also the normal use position.

The bandwidth of the EMI test receiver (R&S ESVS20) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the VBW is set at 1MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW 10Hz VBW for average emission above 1GHz

The frequency range from 30MHz to 10th (25GHz) harmonic are checked.

4.7. Radiated Emission Test Results

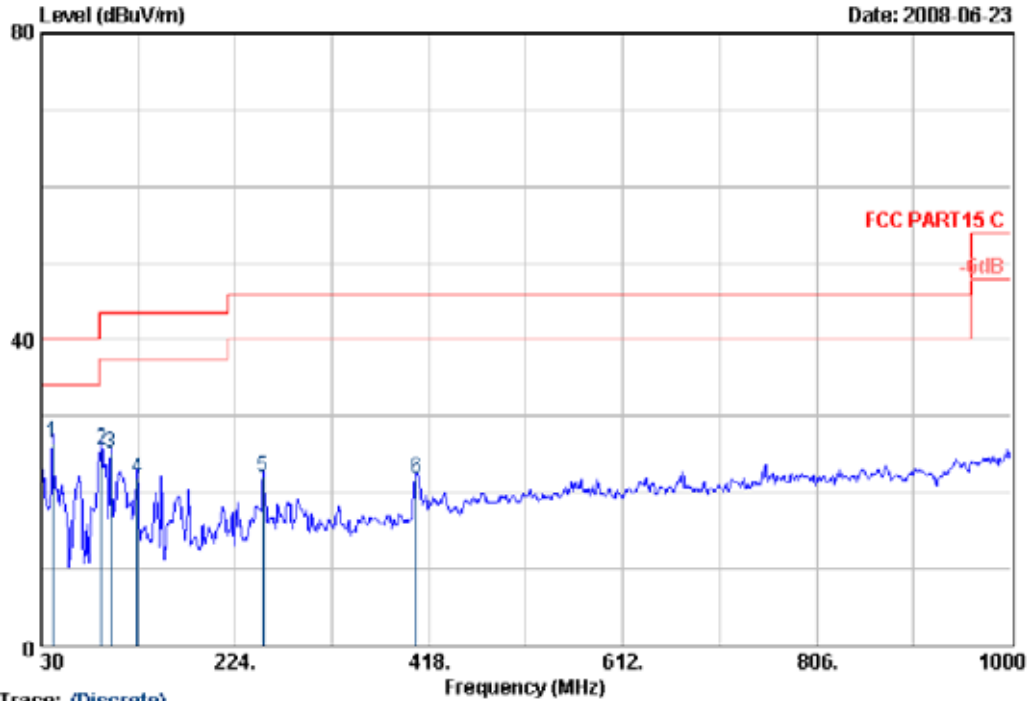
PASS.

All the emissions from 18GHz~25GHz are Peak measured and comply with Average limit.



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Data: 8 File: D:\2008 report data\R\RedOctane\ACS80H105-1.EMI (11)



Trace: (Discrete)
 Site no. : 3m chamber Data no. : 8
 Dis. / Ant. : 3m CBL6112D Ant. pol. : HORIZONTAL
 Limit : FCC PART15 C
 Env. / Ins. : 24°C/56% ESVS20 Engineer : Jany
 EUT : Guitar Hero World Tour-PS2 Wireless Guitar
 Power Rating: DC 3V
 Test Mode : Tx
 Model No. : 95449.805(Controllor)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	41.64	10.77	0.90	14.87	26.54	40.00	13.46	QP
2	90.14	9.10	1.31	15.26	25.67	43.50	17.83	QP
3	99.84	10.00	1.40	13.73	25.13	43.50	18.37	QP
4	126.03	10.20	1.52	10.16	21.88	43.50	21.62	QP
5	252.13	11.75	2.06	8.16	21.97	46.00	24.03	QP
6	405.39	15.30	2.70	3.76	21.76	46.00	24.24	QP

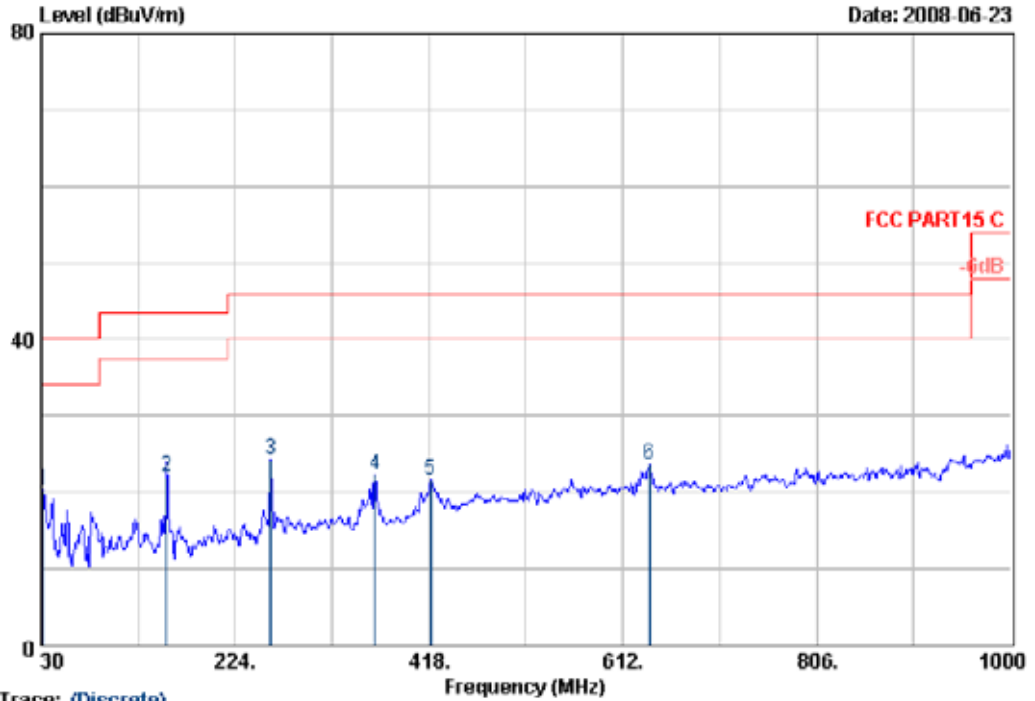
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 9 File: D:\2008 report data\R\RedOctane\ACS80H105-1.EMI (11)

Date: 2008-06-23



Trace: (Discrete)

Site no. : 3m chamber Data no. : 9
 Dis. / Ant. : 3m CBL6112D Ant. pol. : VERTICAL
 Limit : FCC PART15 C
 Env. / Ins. : 24°C/56% ESVS20 Engineer : Jamy
 EUT : Guitar Hero World Tour-PS2 Wireless Guitar
 Power Rating: DC 3V
 Test Mode : Tx
 Model No. : 95449.805(Controller)

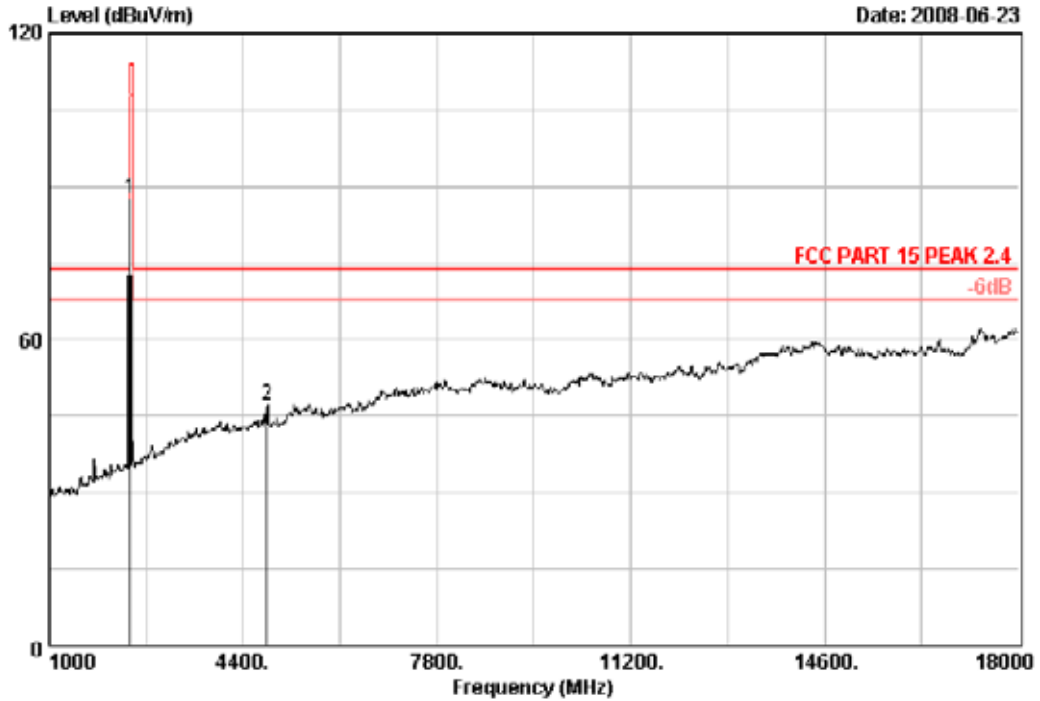
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.94	15.67	0.78	3.91	20.36	40.00	19.64	QP
2	155.13	10.20	1.55	10.37	22.12	43.50	21.38	QP
3	259.89	12.00	2.09	10.25	24.34	46.00	21.66	QP
4	363.68	14.76	2.44	5.12	22.32	46.00	23.68	QP
5	419.94	15.50	2.65	3.46	21.61	46.00	24.39	QP
6	638.19	19.48	3.18	0.97	23.63	46.00	22.37	QP

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



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Data: 1 File: D:\2008 report data\R\RedOctane\ACS80H105.EMI (52)



Site no. : 3# Chamber Data no. : 1
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Sunny
 EUT : Guitar Hero World Tour-PS2 Wireless Guitar
 Power Rating: DC 3V
 Test Mode : Tx CH Low 2410MHz
 Model No. : 95449.805(Controllor)

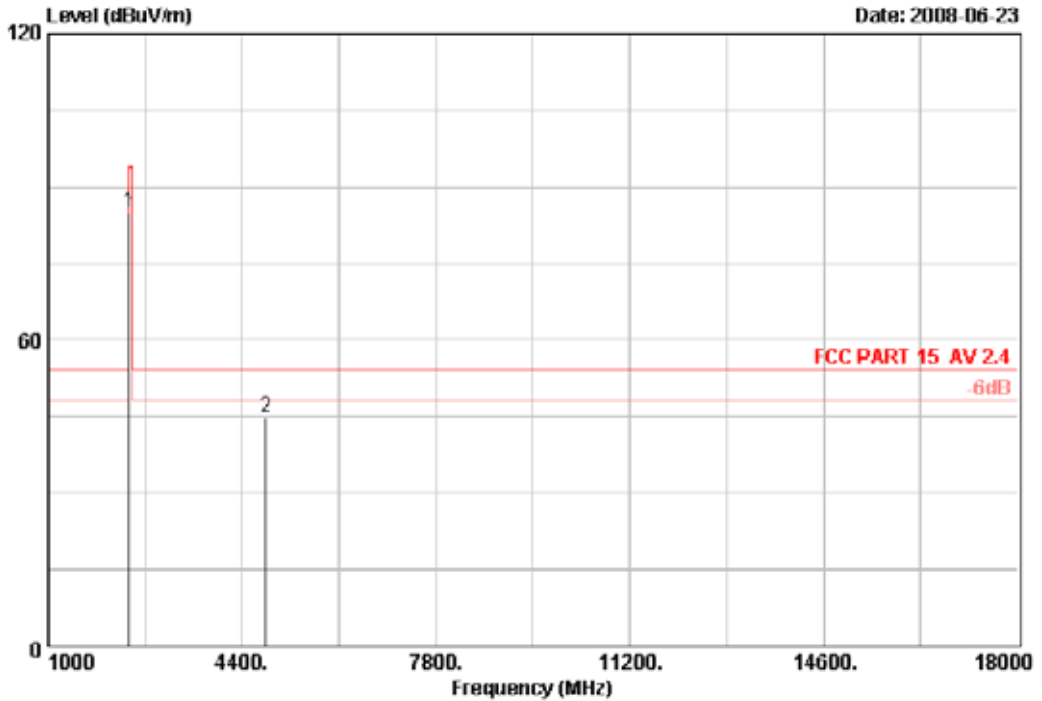
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2410.00	29.03	6.73	35.18	86.96	87.54	114.00	26.46	Peak
2	4820.00	34.02	10.54	34.49	37.05	47.12	74.00	26.88	Peak

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.



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Data: 2 File: D:\2008 report data\R\RedOctane\ACS80H105.EMI (52)



Site no. : 3# Chamber Data no. : 2
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 AV 2.4
 Env. / Ins. : 23°C/54% Engineer : Sunny
 EUT : Guitar Hero World Tour-PS2 Wireless Guitar
 Power Rating: DC 3V
 Test Mode : Tx CH Low 2410MHz
 Model No. : 95449.805(Controller)

	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	2410.00	29.03	6.73	35.18	84.27	84.85	94.00	9.15	Average
2	4820.00	34.02	10.54	34.49	34.85	44.92	54.00	9.08	Average

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.

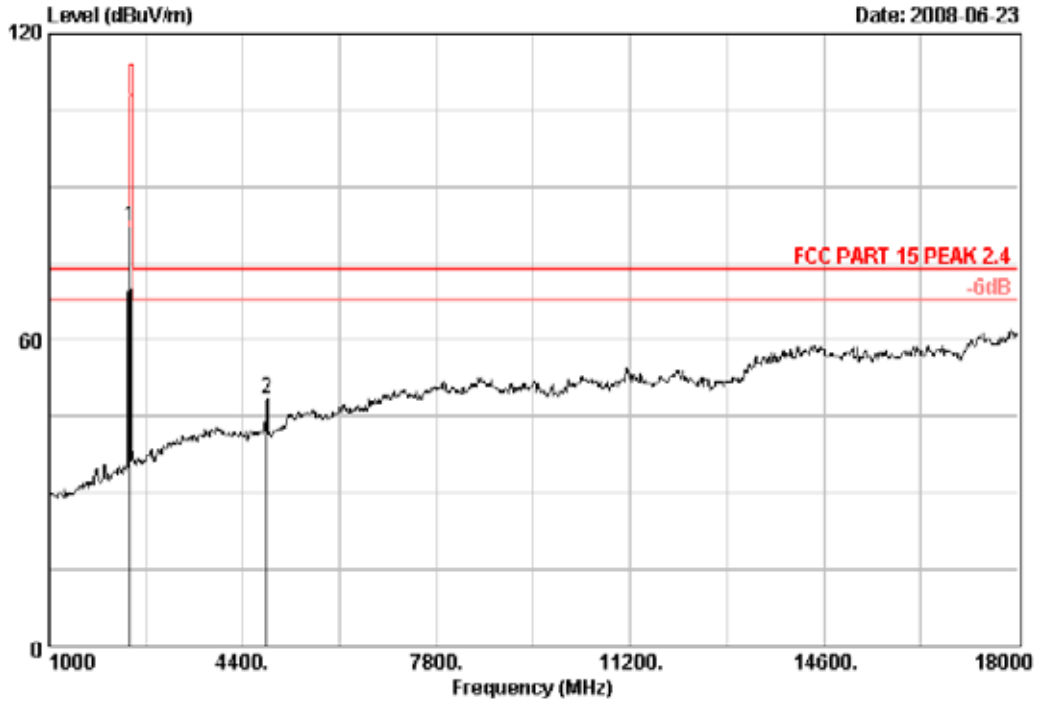


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Data: 3

File: D:\2008 report\data\Red\Octane\ACS8QH105.EMI (52)

Date: 2008-06-23



Site no. : 3# Chamber Data no. : 3
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Sunny
 EUT : Guitar Hero World Tour-PS2 Wireless Guitar
 Power Rating: DC 3V
 Test Mode : Tx CH Low 2410MHz
 Model No. : 95449.805(Controller)

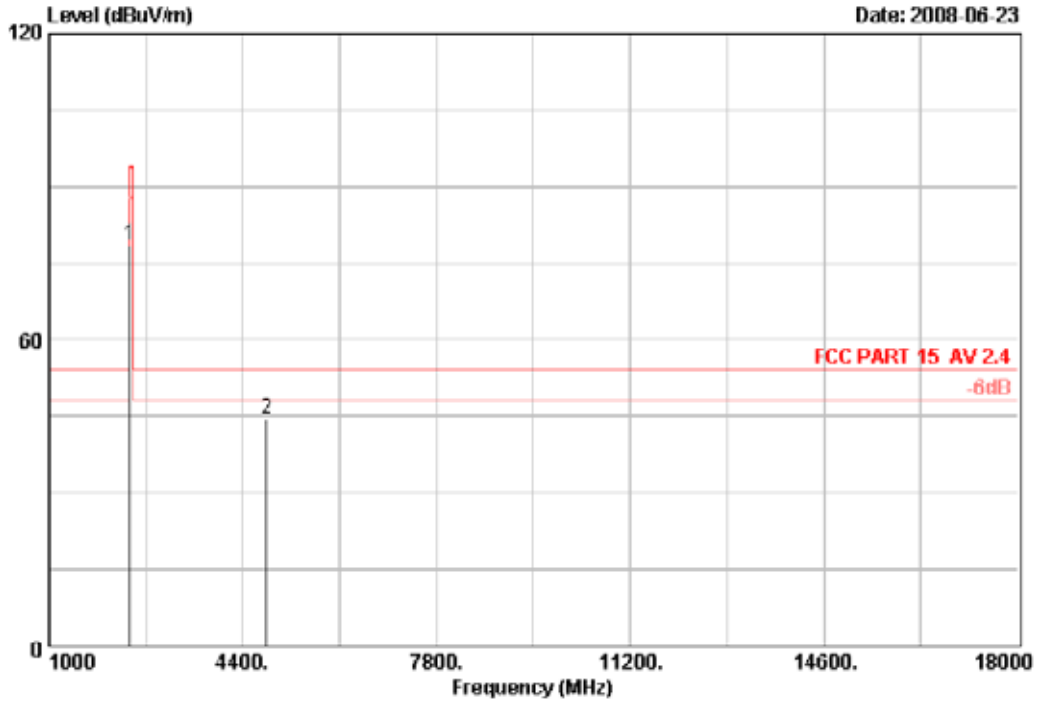
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2410.00	29.03	6.73	35.18	81.59	82.17	114.00	31.83	Peak
2	4820.00	34.02	10.54	34.49	38.44	48.51	74.00	25.49	Peak

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.



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Data: 4 File: D:\2008 report data\R\RetiOctane\ACS80H105.EMI (52)



Site no. : 3# Chamber Data no. : 4
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15 AV 2.4
 Env. / Ins. : 23°C/54% Engineer : Sunny
 EUT : Guitar Hero World Tour-PS2 Wireless Guitar
 Power Rating: DC 3V
 Test Mode : Tx CH Low 2410MHz
 Model No. : 95449.805(Controller)

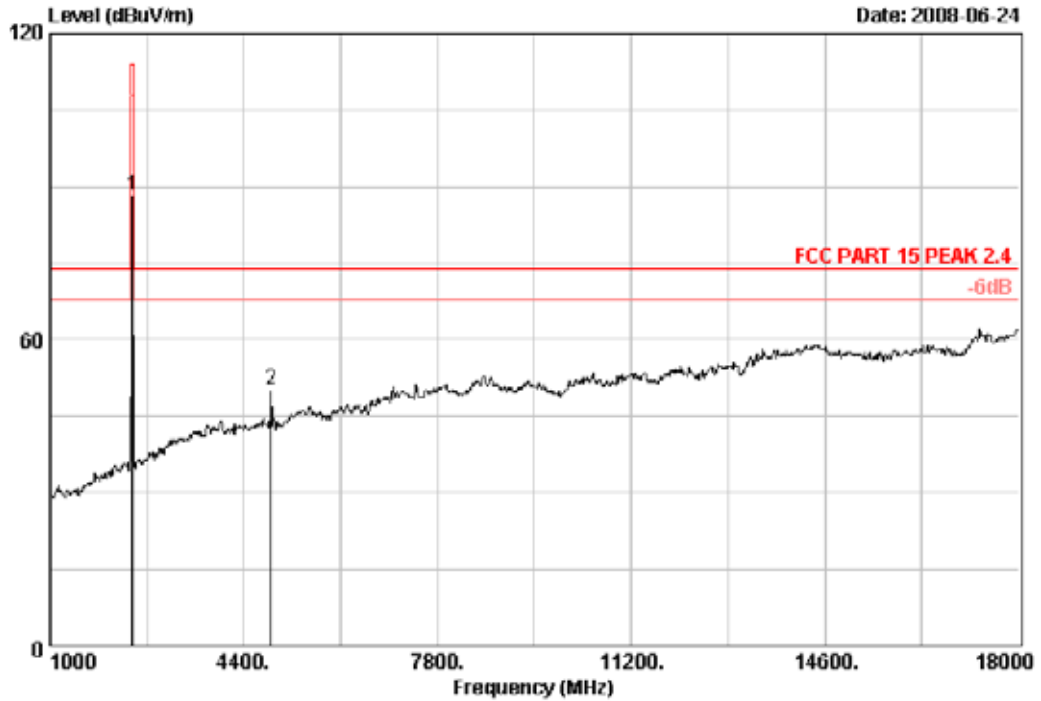
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2410.00	29.03	6.73	35.18	77.96	78.54	94.00	15.46	Average
2	4820.00	34.02	10.54	34.49	34.25	44.32	54.00	9.68	Average

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.



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Data: 7 File: D:\2008 report data\R\Red\Octane\ACS8QH105.EMI (52)



Site no. : 3# Chamber Data no. : 7
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Sunny
 EUT : Guitar Hero World Tour-PS2 Wireless Guitar
 Power Rating: DC 3V
 Test Mode : Tx CH Mid 2440MHz
 Model No. : 95449.805(Controller)

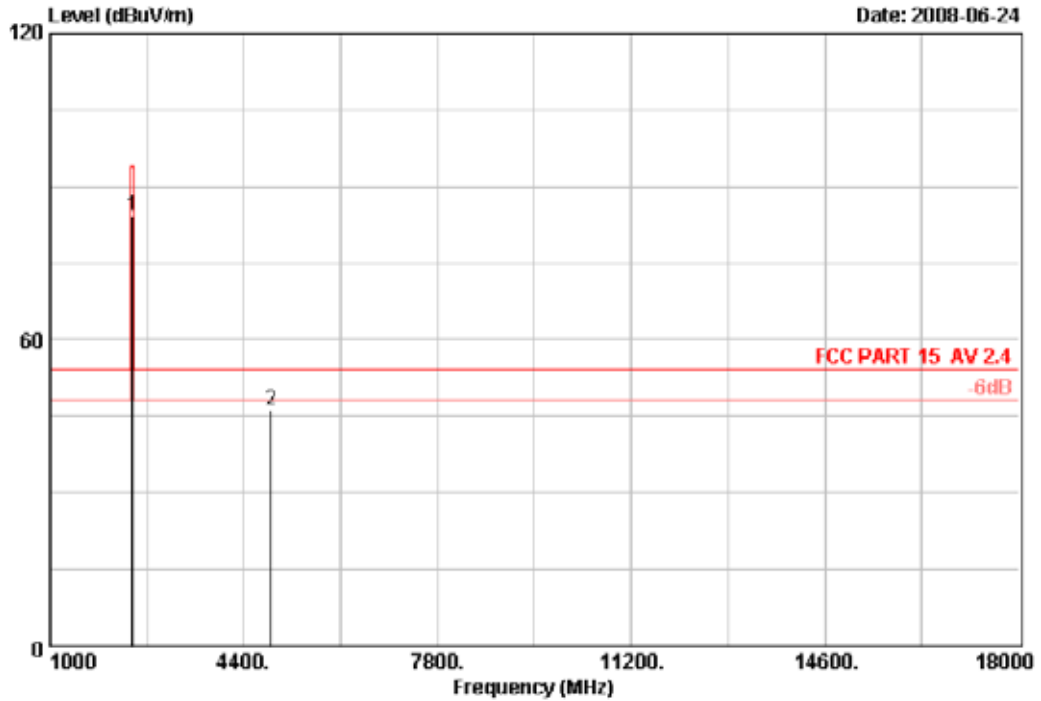
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2440.00	29.11	6.80	35.17	87.57	88.31	114.00	25.69	Peak
2	4876.00	34.16	10.56	34.48	39.84	50.08	74.00	23.92	Peak

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.



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Site no. : 3# Chamber Data no. : 8
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 AV 2.4
 Env. / Ins. : 23°C/54% Engineer : Sunny
 EUT : Guitar Hero World Tour-PS2 Wireless Guitar
 Power Rating: DC 3V
 Test Mode : Tx CH Mid 2440MHz
 Model No. : 95449.805 (Controller)

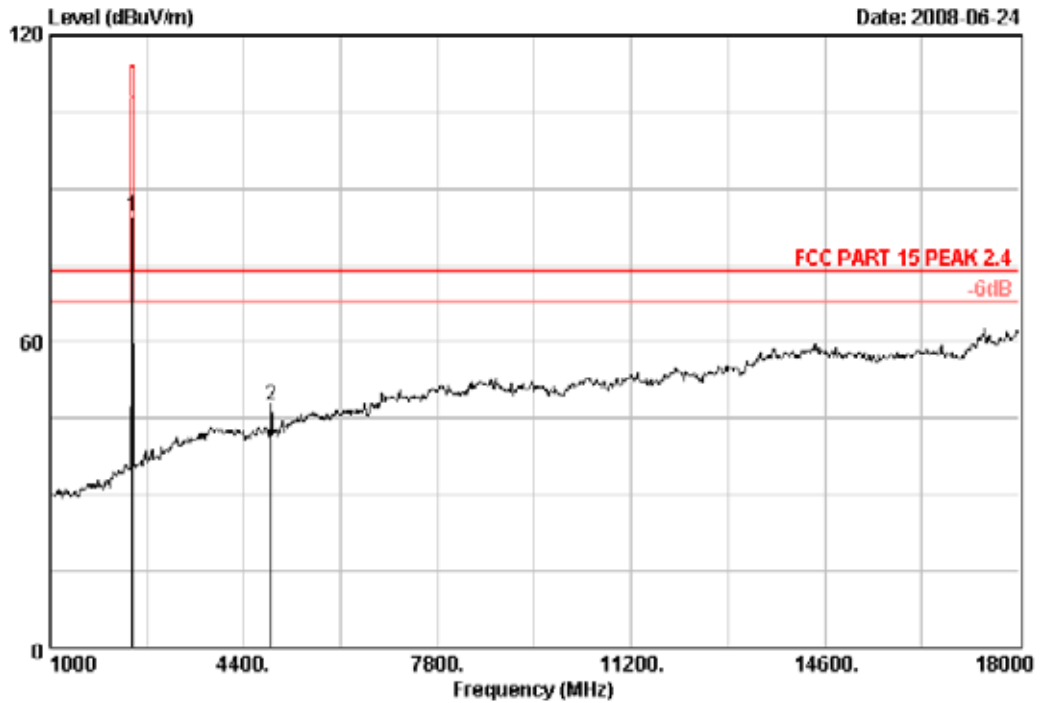
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Remark
					Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
1	2440.00	29.11	6.80	35.17	83.60	84.34	94.00	9.66	Average
2	4876.00	34.16	10.56	34.48	35.76	46.00	54.00	8.00	Average

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.



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Data: 5 File: D:\2008 report data\R\Red\Octane\ACS8QH105.EMI (52)



Site no. : 3# Chamber Data no. : 5
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Sunny
 EUT : Guitar Hero World Tour-PS2 Wireless Guitar
 Power Rating: DC 3V
 Test Mode : Tx CH Mid 2440MHz
 Model No. : 95449.805(Controller)

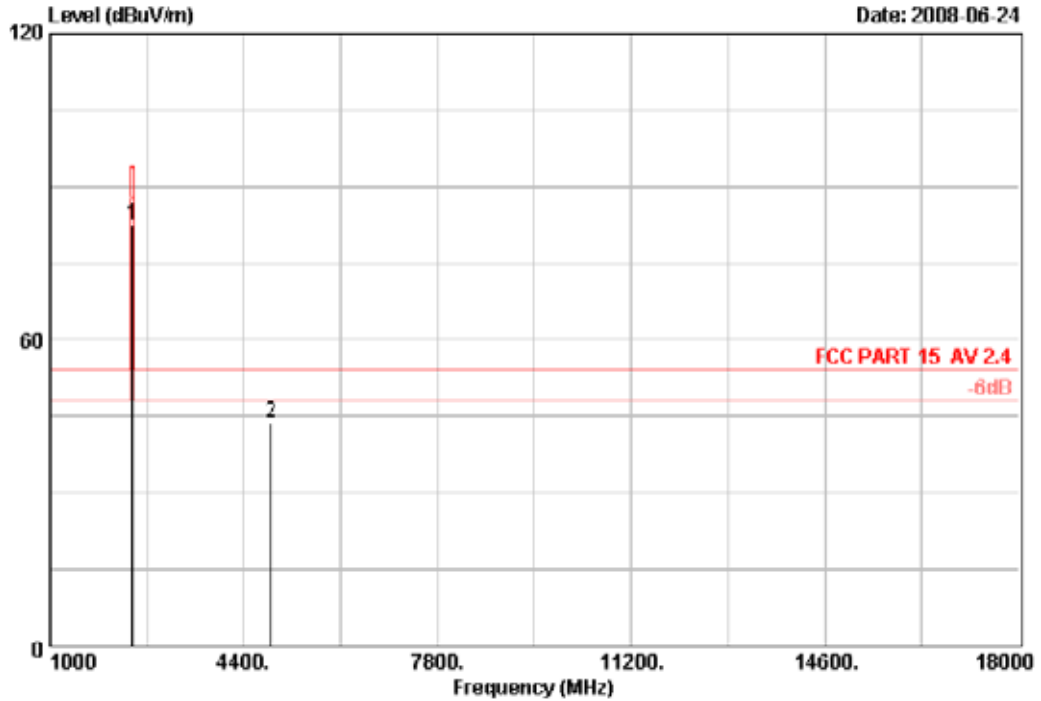
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission			Remark
						Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	2440.00	29.11	6.80	35.17	83.69	84.43	114.00	29.57	Peak
2	4880.00	34.16	10.56	34.48	37.34	47.58	74.00	26.42	Peak

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.



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Data: 6 File: D:\2008 report data\R\Red\Octane\ACS8QH105.EMI (52)



Site no. : 3# Chamber Data no. : 6
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15 AV 2.4
 Env. / Ins. : 23°C/54% Engineer : Sunny
 EUT : Guitar Hero World Tour-PS2 Wireless Guitar
 Power Rating: DC 3V
 Test Mode : Tx CH Mid 2440MHz
 Model No. : 95449.805(Controller)

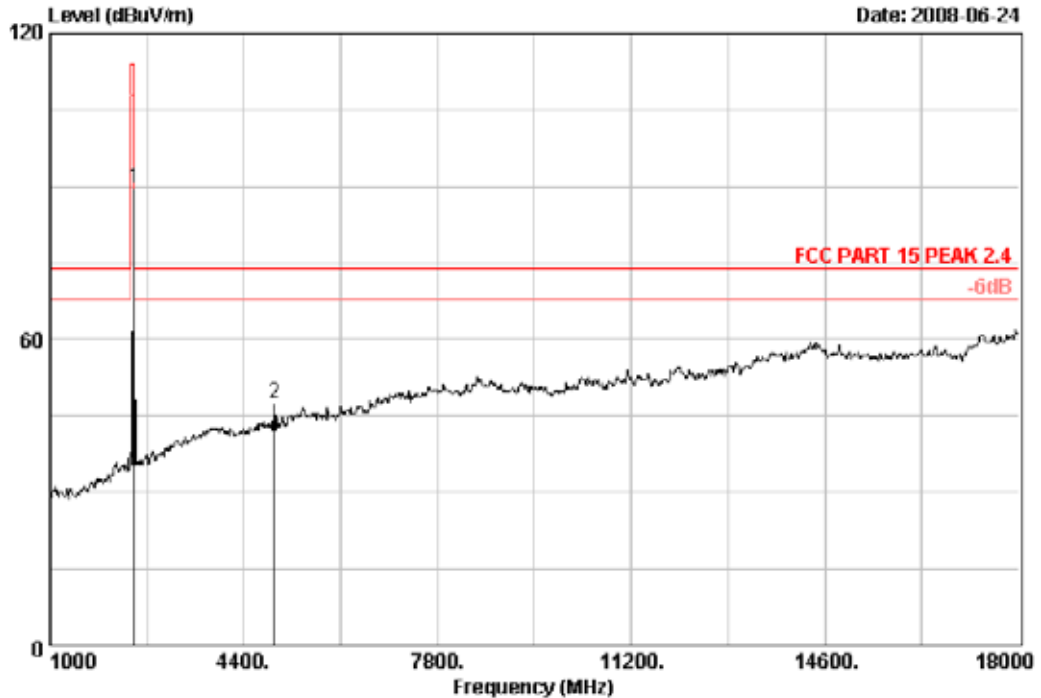
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Remark
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	2440.00	29.11	6.80	35.17	81.91	82.65	94.00	11.35	Average
2	4880.00	34.16	10.56	34.48	33.41	43.65	54.00	10.35	Average

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.



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Data: 9 File: D:\2008 report data\R\Red\Octane\ACS8QH105.EMI (52)



Site no. : 3# Chamber Data no. : 9
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Sunny
 EUT : Guitar Hero World Tour-PS2 Wireless Guitar
 Power Rating: DC 3V
 Test Mode : Tx CH High 2470MHz
 Model No. : 95449.805 (Controller)

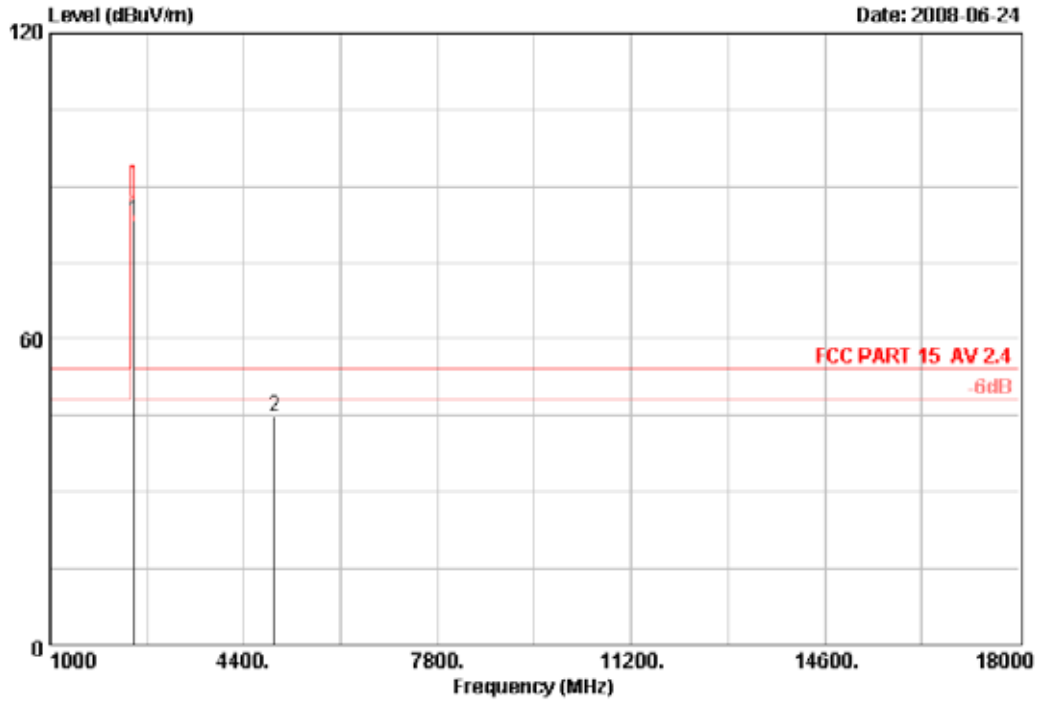
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2470.00	29.15	6.87	35.16	88.75	89.61	114.00	24.39	Peak
2	4940.00	34.34	10.58	34.46	37.15	47.61	74.00	26.39	Peak

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.



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Data: 10 File: D:\2008 report data\R\Red\Octane\ACS8QH105.EMI (52)



Site no. : 3# Chamber Data no. : 10
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 AV 2.4
 Env. / Ins. : 23°C/54% Engineer : Sunny
 EUT : Guitar Hero World Tour-PS2 Wireless Guitar
 Power Rating: DC 3V
 Test Mode : Tx CH High 2470MHz
 Model No. : 95449.805(Controller)

	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	2470.00	29.15	6.87	35.16	82.29	83.15	94.00	10.85	Average
2	4940.00	34.34	10.58	34.46	34.36	44.82	54.00	9.18	Average

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.

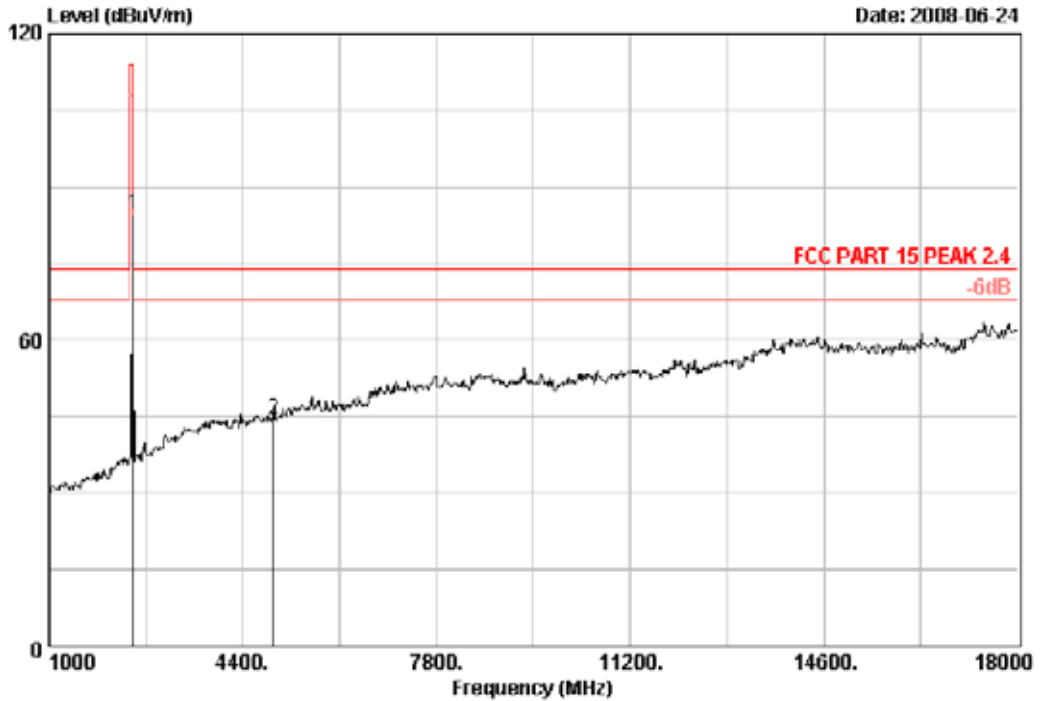


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Data: 11

File: D:\2008 report data\R\Red\Octane\ACS8QH105.EMI (52)

Date: 2008-06-24



Site no. : 3# Chamber Data no. : 11
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Sunny
 EUT : Guitar Hero World Tour-PS2 Wireless Guitar
 Power Rating: DC 3V
 Test Mode : Tx CH High 2470MHz
 Model No. : 95449.805(Controller)

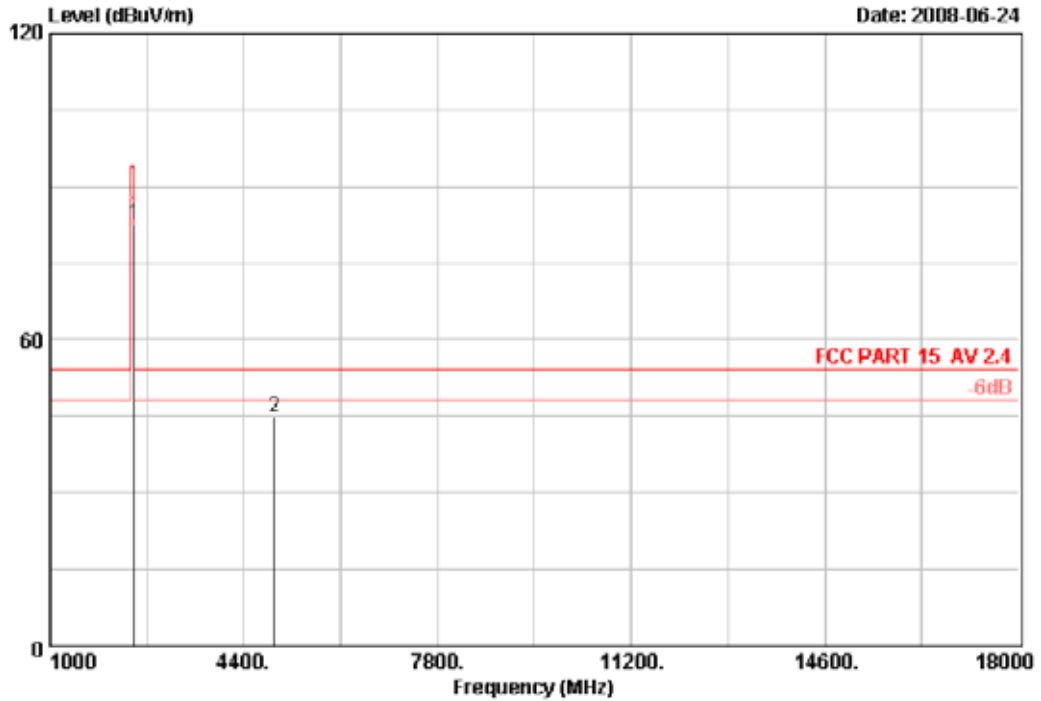
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission			Remark
						Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
1	2470.00	29.15	6.87	35.16	83.66	84.52	114.00	29.48	Peak
2	4940.00	34.34	10.58	34.46	34.06	44.52	74.00	29.48	Peak

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.



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Data: 12 File: D:\2008 report data\R\RedOctane\ACS80H105.EMI (52)



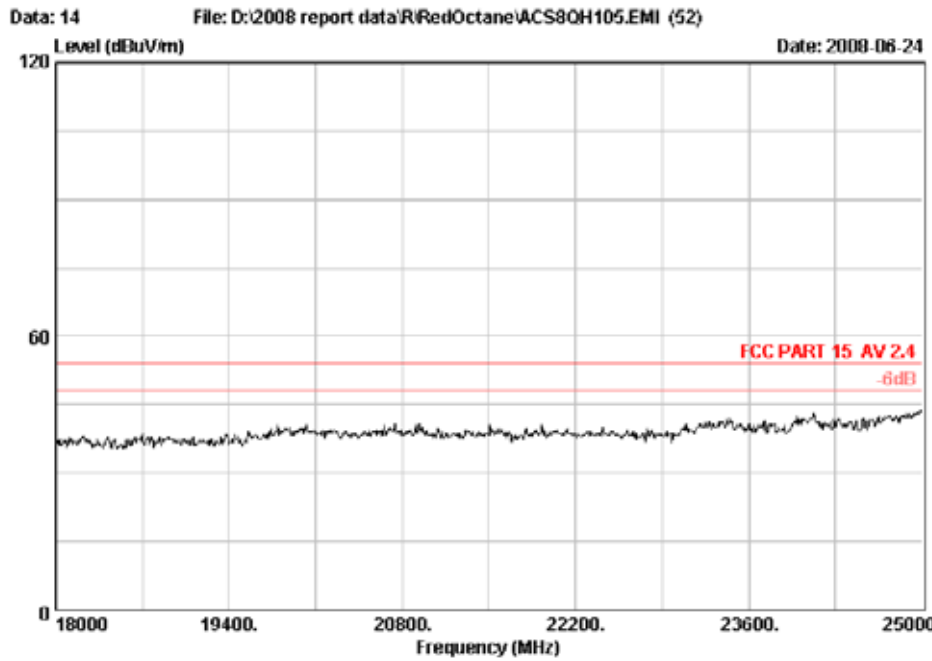
Site no. : 3# Chamber Data no. : 12
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15 AV 2.4
 Env. / Ins. : 23°C/54% Engineer : Sunny
 EUT : Guitar Hero World Tour-PS2 Wireless Guitar
 Power Rating: DC 3V
 Test Mode : Tx CH High 2470MHz
 Model No. : 95449.805 (Controller)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Remark
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	2470.00	29.15	6.87	35.16	81.72	82.58	94.00	11.42	Average
2	4940.00	34.34	10.58	34.46	34.21	44.67	54.00	9.33	Average

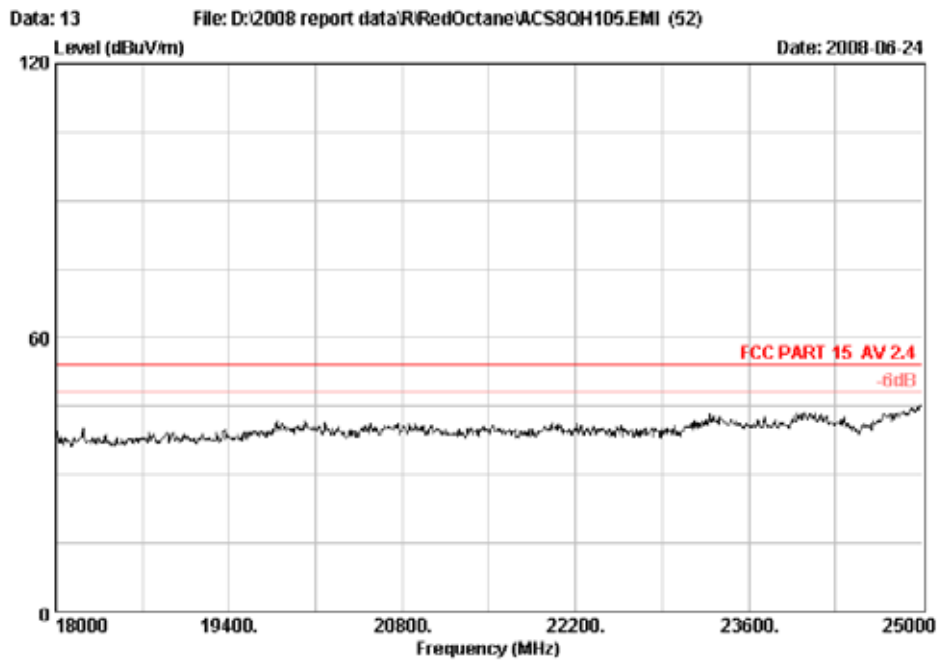
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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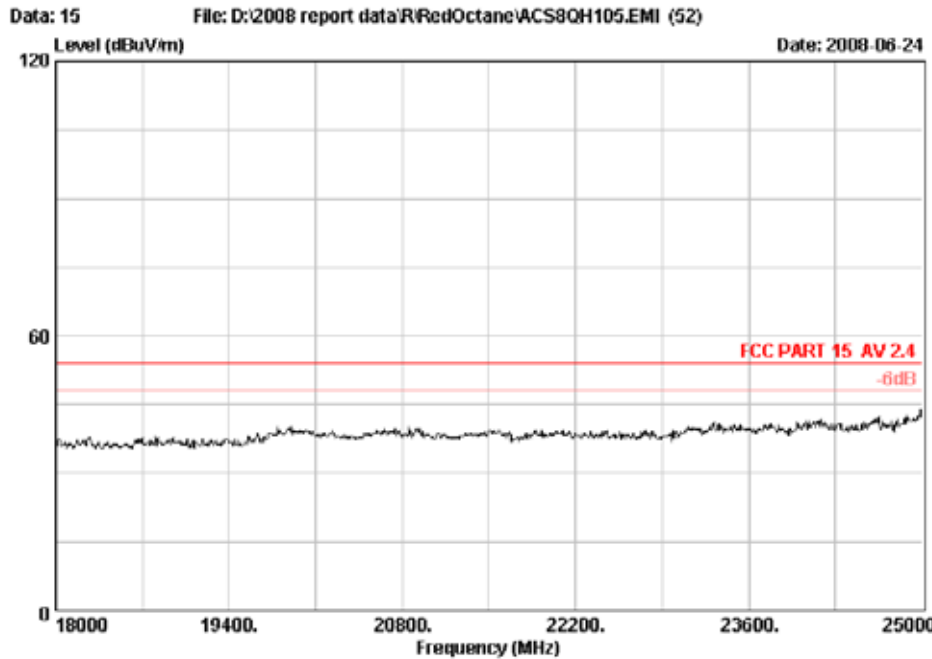
Site no. : 3# Chamber Data no. : 14
 Dis. / Ant. : 3m 3116 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 AV 2.4
 Env. / Ins. : 23°C/54% Engineer : Sunny
 EUT : Guitar Hero World Tour-PS2 Wireless Guitar
 Power Rating: DC 3V
 Test Mode : Tx CH Low 2410MHz
 Model No. : 95449.805(Controller)



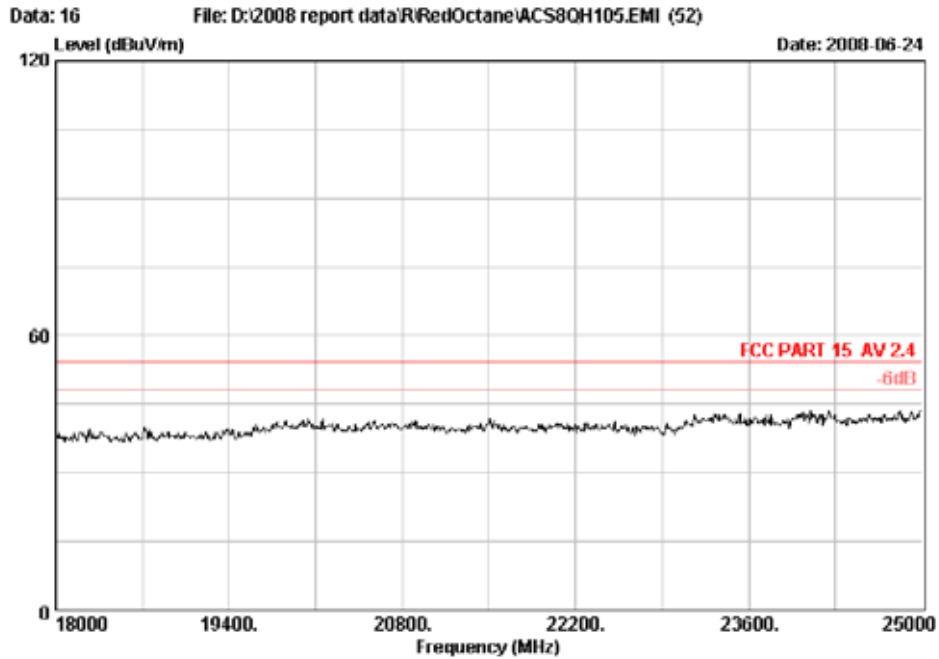
Site no. : 3# Chamber Data no. : 13
 Dis. / Ant. : 3m 3116 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15 AV 2.4
 Env. / Ins. : 23°C/54% Engineer : Sunny
 EUT : Guitar Hero World Tour-PS2 Wireless Guitar
 Power Rating: DC 3V
 Test Mode : Tx CH Low 2410MHz
 Model No. : 95449.805(Controller)



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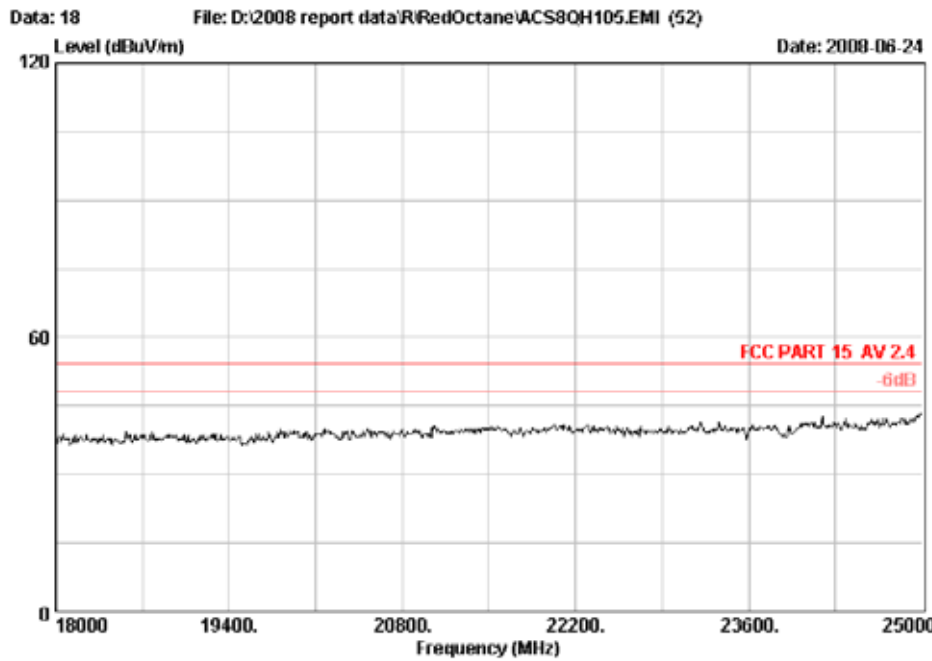
Site no. : 3# Chamber Data no. : 15
 Dis. / Ant. : 3m 3116 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 AV 2.4
 Env. / Ins. : 23°C/54% Engineer : Sunny
 EUT : Guitar Hero World Tour-PS2 Wireless Guitar
 Power Rating: DC 3V
 Test Mode : Tx CH Mid 2440MHz
 Model No. : 95449.805(Controller)



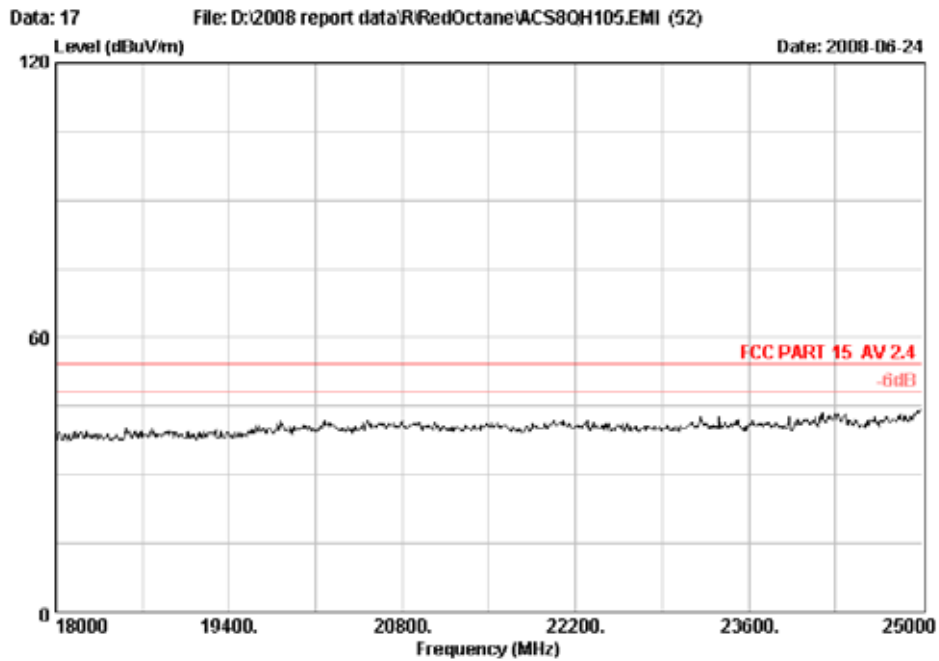
Site no. : 3# Chamber Data no. : 16
 Dis. / Ant. : 3m 3116 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15 AV 2.4
 Env. / Ins. : 23°C/54% Engineer : Sunny
 EUT : Guitar Hero World Tour-PS2 Wireless Guitar
 Power Rating: DC 3V
 Test Mode : Tx CH Mid 2440MHz
 Model No. : 95449.805(Controller)



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Site no. : 3# Chamber Data no. : 18
 Dis. / Ant. : 3m 3116 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 AV 2.4
 Env. / Ins. : 23°C/54% Engineer : Sunny
 EUT : Guitar Hero World Tour-PS2 Wireless Guitar
 Power Rating: DC 3V
 Test Mode : Tx CH High 2470MHz
 Model No. : 95449.805(Controller)



Site no. : 3# Chamber Data no. : 17
 Dis. / Ant. : 3m 3116 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15 AV 2.4
 Env. / Ins. : 23°C/54% Engineer : Sunny
 EUT : Guitar Hero World Tour-PS2 Wireless Guitar
 Power Rating: DC 3V
 Test Mode : Tx CH High 2470MHz
 Model No. : 95449.805(Controller)

5. BAND EDGE COMPLIANCE TEST

5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May,10, 08	1 Year
2	Horn Antenna	EMCO	3115	9607-4877	May,27, 08	1.5 Year
3	Amplifier	HP	8449B	3008A00863	May,10, 08	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX	182769/4	May,28, 08	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX	182768/4	May,28, 08	1 Year
6	RF Cable	Hubersuhner	SUCOFLEX	182771/4	May,28, 08	1 Year

5.2. Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in section 15.209, which is the lesser attenuation.

5.3. 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=VBW=1MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

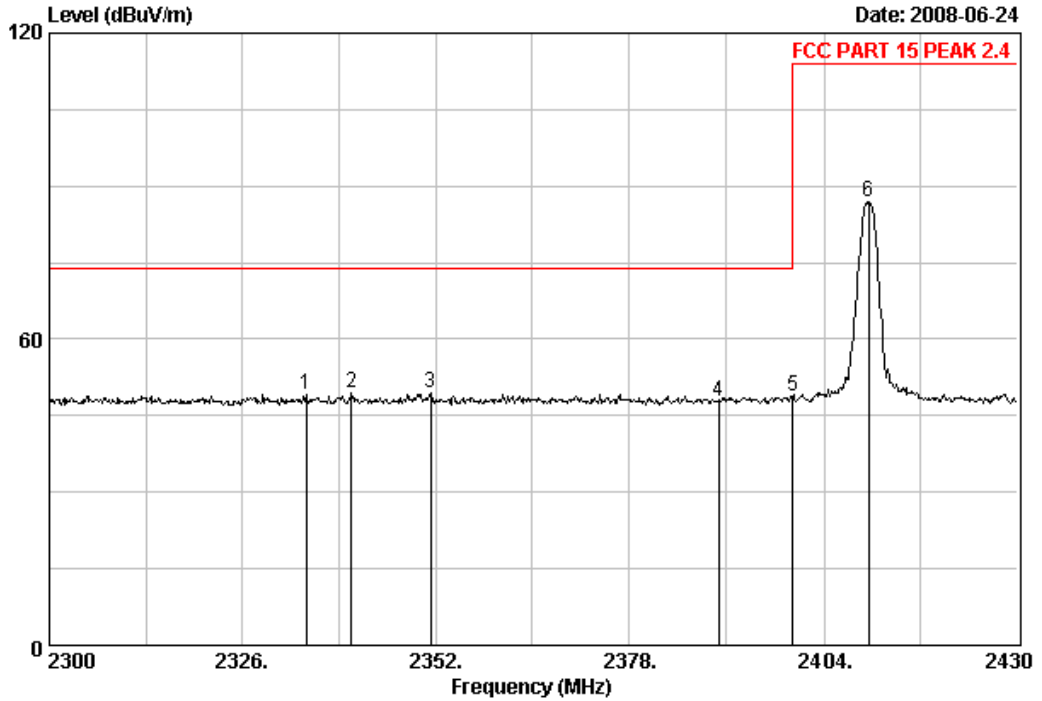
5.4. Test Results

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



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Data: 19 File: D:\2008 report data\R\RedOctane\ACS8QH105.EMI (52)



Site no. : 3# Chamber Data no. : 19
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Sunny
 EUT : Guitar Hero World Tour-PS2 Wireless Guitar
 Power Rating: DC 3V
 Test Mode : Tx CH Low 2410MHz
 Model No. : 95449.805(Controller)

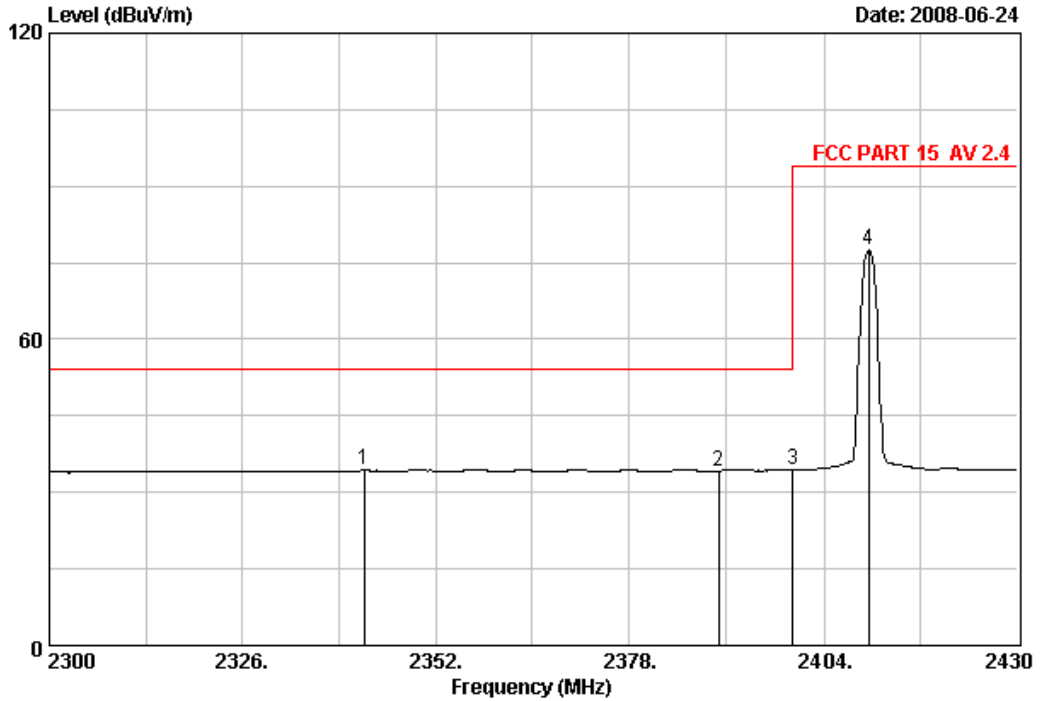
	Ant.	Cable	Amp	Emission			Margin	Remark
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	(dB)	
1	28.87	6.65	35.20	48.93	49.25	74.00	24.75	Peak
2	28.87	6.67	35.19	49.06	49.41	74.00	24.59	Peak
3	28.87	6.67	35.19	49.05	49.40	74.00	24.60	Peak
4	28.99	6.71	35.18	47.38	47.90	74.00	26.10	Peak
5	28.99	6.73	35.18	48.39	48.93	74.00	25.07	Peak
6	29.03	6.73	35.18	86.25	86.83	114.00	27.17	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.



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Data: 20 File: D:\2008 report data\R\RedOctane\ACS8QH105.EMI (52)



Site no. : 3# Chamber Data no. : 20
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15 AV 2.4
Env. / Ins. : 23°C/54% Engineer : Sunny
EUT : Guitar Hero World Tour-PS2 Wireless Guitar
Power Rating: DC 3V
Test Mode : Tx CH Low 2410MHz
Model No. : 95449.805(Controller)

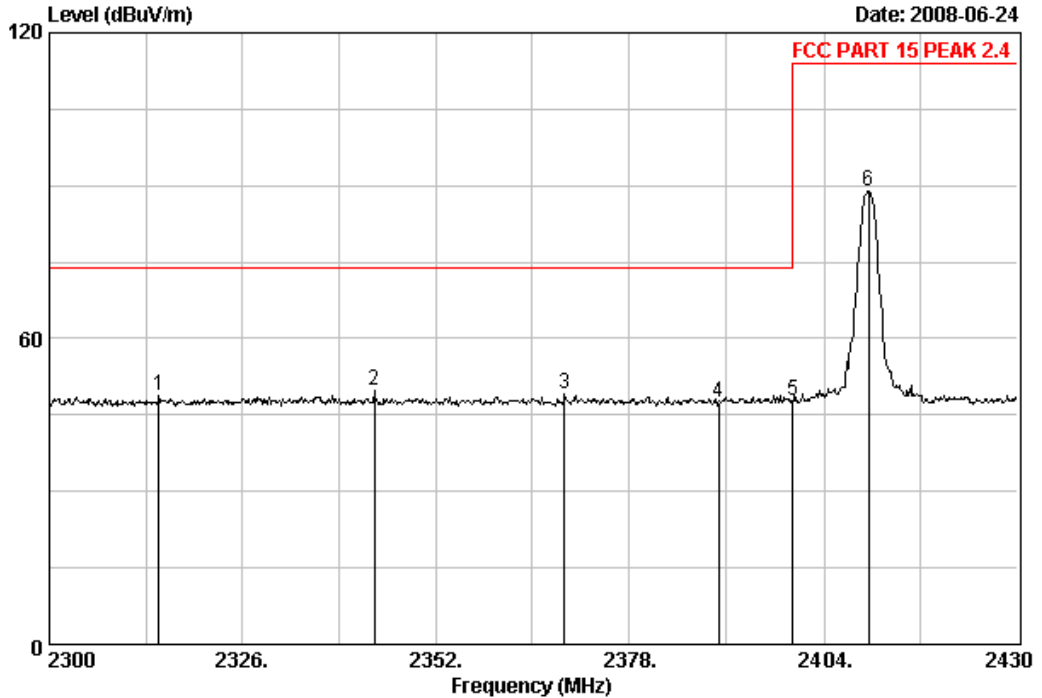
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2342.38	28.87	6.67	35.19	33.96	34.31	54.00	19.69	Average
2	2390.00	28.99	6.71	35.18	33.67	34.19	54.00	19.81	Average
3	2400.00	28.99	6.73	35.18	33.96	34.50	54.00	19.50	Average
4	2409.98	29.03	6.73	35.18	76.88	77.46	94.00	16.54	Average

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.



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Data: 21 File: D:\2008 report data\R\RedOctane\ACS8QH105.EMI (52)



Site no. : 3# Chamber Data no. : 21
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Sunny
 EUT : Guitar Hero World Tour-PS2 Wireless Guitar
 Power Rating: DC 3V
 Test Mode : Tx CH Low 2410MHz
 Model No. : 95449.805(Controller)

	Ant.	Cable	Amp	Emission			Margin	Remark
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	(dB)	
1	28.79	6.63	35.20	48.48	48.70	74.00	25.30	Peak
2	28.87	6.67	35.19	49.32	49.67	74.00	24.33	Peak
3	28.95	6.69	35.19	48.70	49.15	74.00	24.85	Peak
4	28.99	6.71	35.18	46.89	47.41	74.00	26.59	Peak
5	28.99	6.73	35.18	47.13	47.67	74.00	26.33	Peak
6	29.03	6.73	35.18	88.23	88.81	114.00	25.19	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.

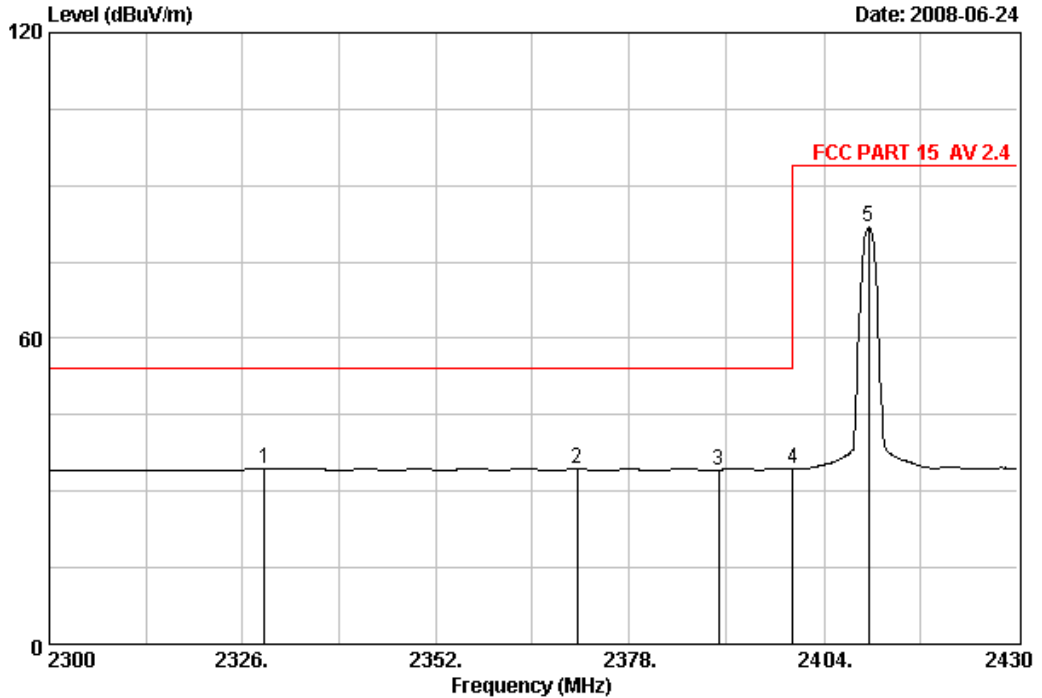


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Data: 22

File: D:\2008 report data\R\RedOctane\ACS8QH105.EMI (52)

Date: 2008-06-24



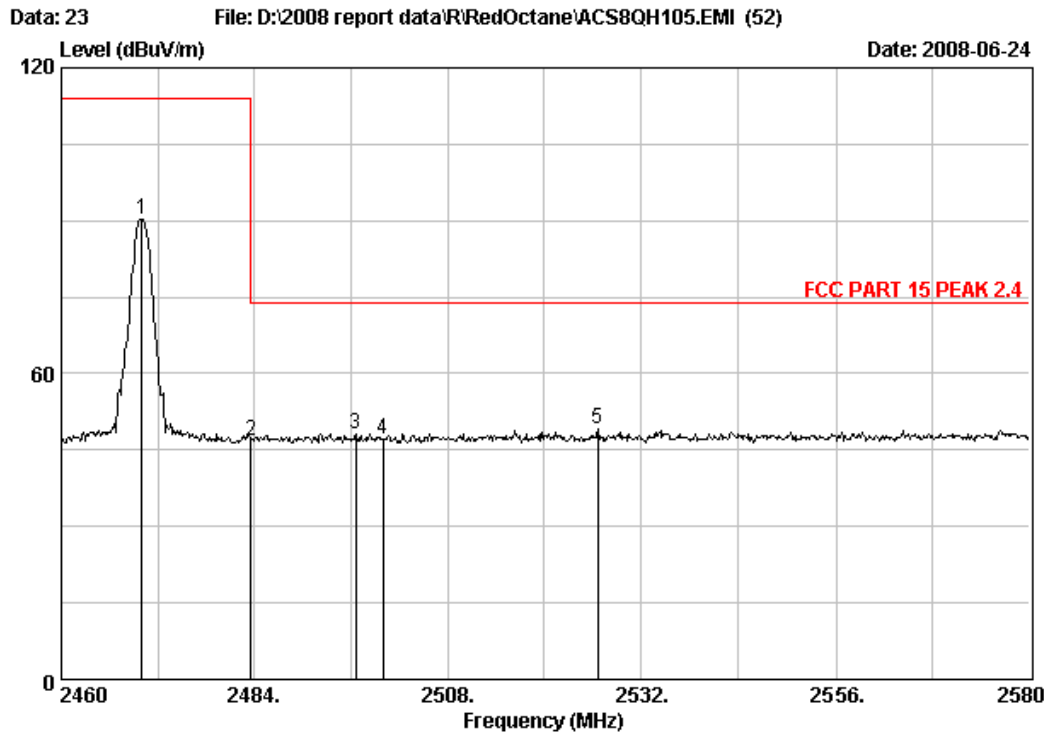
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 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 AV 2.4
 Env. / Ins. : 23°C/54% Engineer : Sunny
 EUT : Guitar Hero World Tour-PS2 Wireless Guitar
 Power Rating: DC 3V
 Test Mode : Tx CH Low 2410MHz
 Model No. : 95449.805(Controller)

	Ant.	Cable	Amp	Emission			Margin	Remark
Freq.	Factor	Loss	Factor	Reading	Level	Limits	(dB)	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)		
1	28.83	6.65	35.20	34.13	34.41	54.00	19.59	Average
2	28.95	6.69	35.19	33.91	34.36	54.00	19.64	Average
3	28.99	6.71	35.18	33.72	34.24	54.00	19.76	Average
4	28.99	6.73	35.18	33.99	34.53	54.00	19.47	Average
5	29.03	6.73	35.18	81.18	81.76	94.00	12.24	Average

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.



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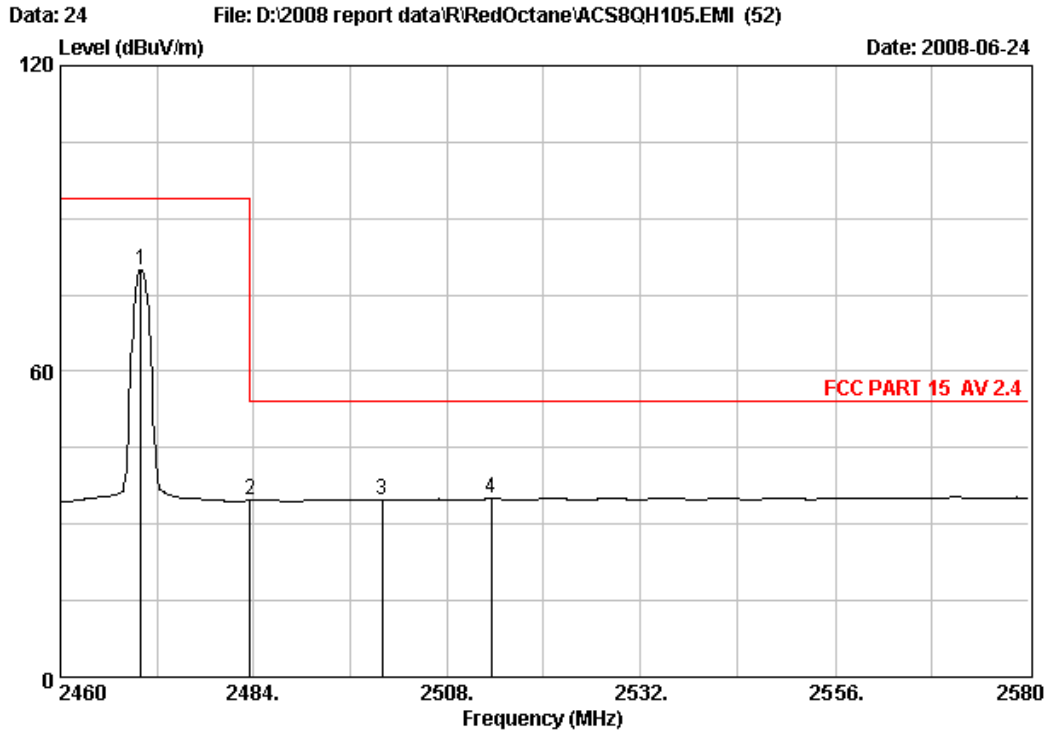
Site no. : 3# Chamber Data no. : 23
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Sunny
 EUT : Guitar Hero World Tour-PS2 Wireless Guitar
 Power Rating: DC 3V
 Test Mode : Tx CH High 2470MHz
 Model No. : 95449.805(Controller)

	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	2469.96	29.15	6.87	35.16	89.42	90.28	114.00	23.72	Peak
2	2483.50	29.19	6.87	35.16	45.82	46.72	74.00	27.28	Peak
3	2496.60	29.23	6.91	35.15	47.25	48.24	74.00	25.76	Peak
4	2500.00	29.23	6.91	35.15	46.17	47.16	74.00	26.84	Peak
5	2526.60	29.35	6.96	35.14	47.93	49.10	74.00	24.90	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.



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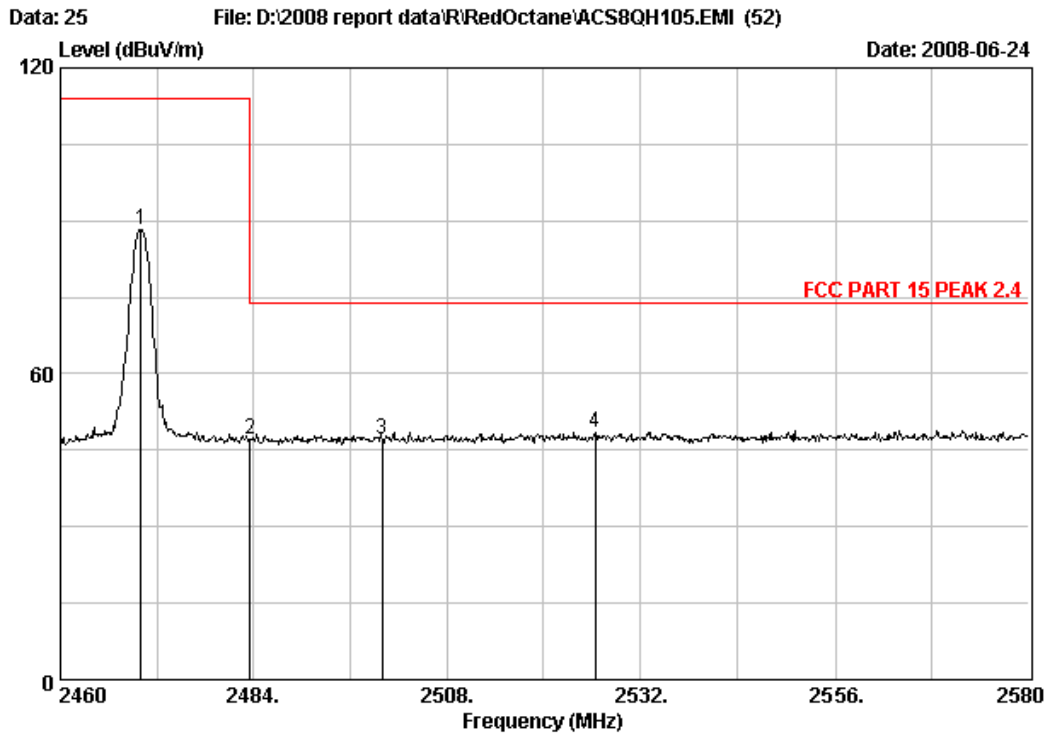
Site no. : 3# Chamber Data no. : 24
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 AV 2.4
 Env. / Ins. : 23°C/54% Engineer : Sunny
 EUT : Guitar Hero World Tour-PS2 Wireless Guitar
 Power Rating: DC 3V
 Test Mode : Tx CH High 2470MHz
 Model No. : 95449.805(Controller)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Remark
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	2469.96	29.15	6.87	35.16	79.17	80.03	94.00	13.97	Average
2	2483.50	29.19	6.87	35.16	33.75	34.65	54.00	19.35	Average
3	2500.00	29.23	6.91	35.15	33.91	34.90	54.00	19.10	Average
4	2513.52	29.29	6.93	35.14	33.89	34.97	54.00	19.03	Average

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.



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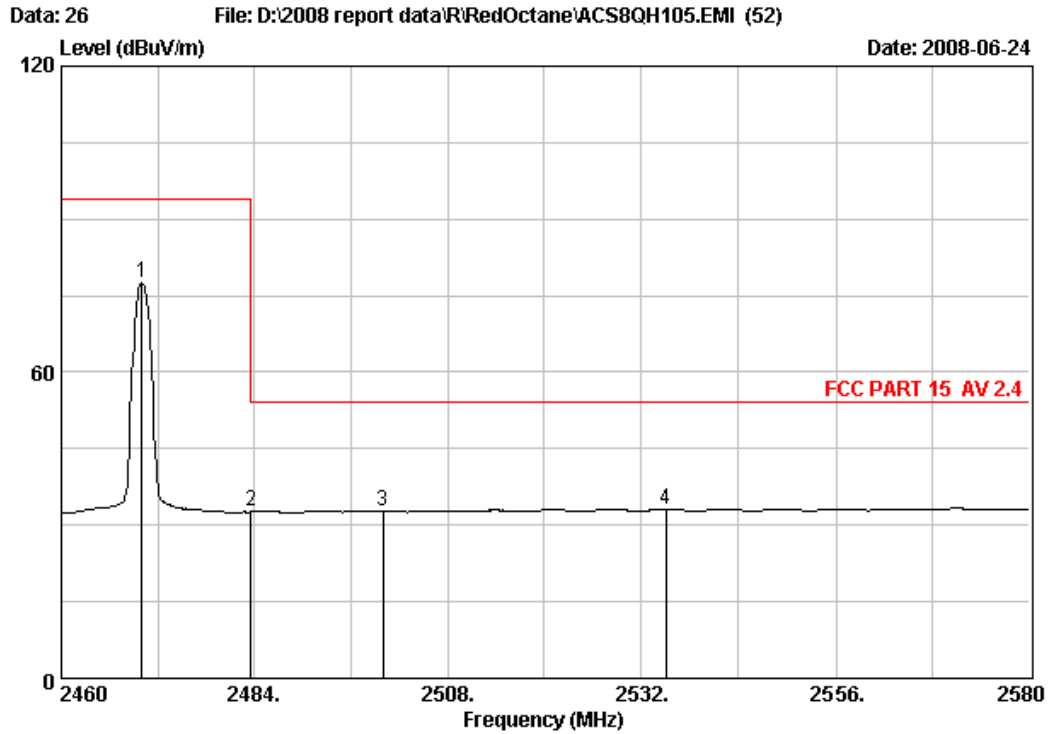
Site no. : 3# Chamber Data no. : 25
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Sunny
 EUT : Guitar Hero World Tour-PS2 Wireless Guitar
 Power Rating: DC 3V
 Test Mode : Tx CH High 2470MHz
 Model No. : 95449.805(Controller)

	Ant.	Cable	Amp	Emission			Margin	Remark
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	(dB)	
1	29.15	6.87	35.16	87.39	88.25	114.00	25.75	Peak
2	29.19	6.87	35.16	46.24	47.14	74.00	26.86	Peak
3	29.23	6.91	35.15	46.29	47.28	74.00	26.72	Peak
4	29.35	6.96	35.14	47.34	48.51	74.00	25.49	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.



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Site no. : 3# Chamber Data no. : 26
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
 Limit : FCC PART 15 AV 2.4
 Env. / Ins. : 23°C/54% Engineer : Sunny
 EUT : Guitar Hero World Tour-PS2 Wireless Guitar
 Power Rating: DC 3V
 Test Mode : Tx CH High 2470MHz
 Model No. : 95449.805(Controller)

	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	2469.96	29.15	6.87	35.16	76.53	77.39	94.00	16.61	Average
2	2483.50	29.19	6.87	35.16	31.73	32.63	54.00	21.37	Average
3	2500.00	29.23	6.91	35.15	31.86	32.85	54.00	21.15	Average
4	2535.12	29.35	6.96	35.14	31.97	33.14	54.00	20.86	Average

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.

6. 20DB BANDWIDTH TEST

6.1. Test Equipment

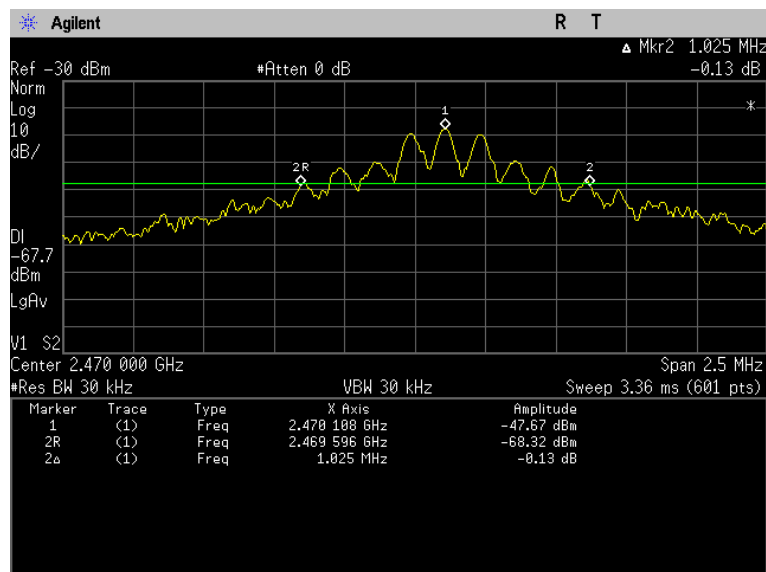
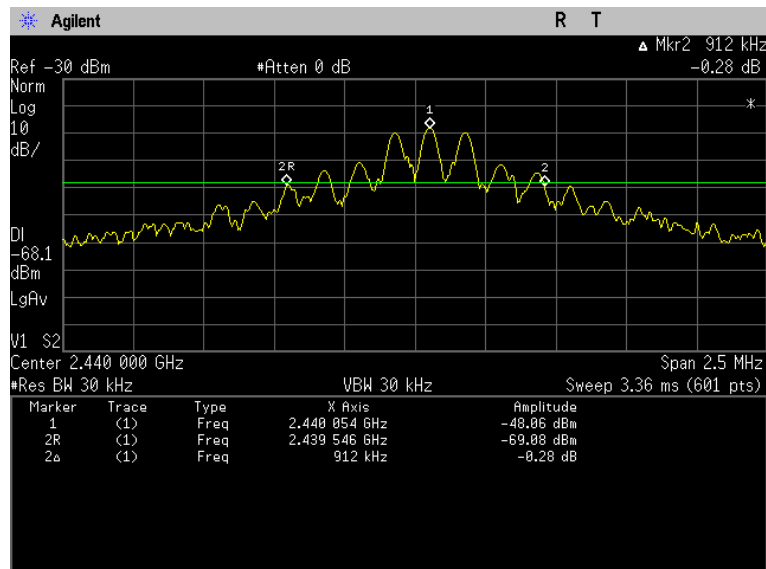
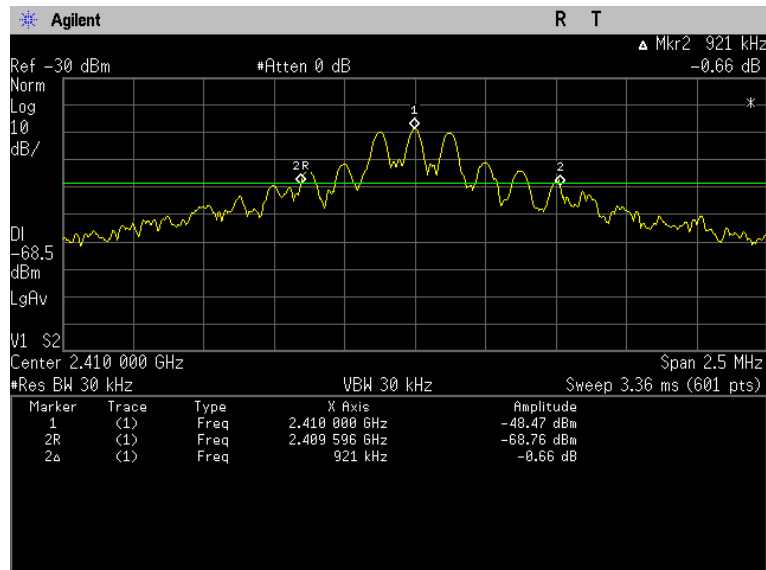
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May,10, 08	1 Year
2	Attenuator	Agilent	8491B	MY39262165	May,28, 08	1 Year
3	Bilog Antenna	Schaffner	CBL6112D	25238	Feb,21, 08	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX 102	2861812	May,28, 08	1Year
5	RF Cable	Hubersuhner	SUCOFLEX 102	28862212	May,28, 08	1 Year

6.2. Test Information

EUT:	Guitar Hero World Tour - PS2 Wireless Guitar
M/N:	95449.805
Test Date:	Jul.04, 2008
Ambient Temperature:	23°C
Relative Humidity:	54%
Test standard:	FCC PART 15C: 15.215
Test mode:	Transmitting
Test Frequency:	Low: 2410MHz Mid: 2440MHz High: 2470MHz
Test By:	Power

6.3. Test Results

CH	20dB Bandwidth (kHz)	Limit (kHz)	Conclusion
(Low)	921	---	PASS
(Mid)	912	---	PASS
(High)	1025	---	PASS



7. DEVIATION TO TEST SPECIFICATIONS

[NONE]