

APPLICATION FOR CERTIFICATION
On Behalf of

Qmotions, Inc.

Wireless Skateboard Controller for PS3

Model Number: QM06PS300(Dongle)

FCC ID: Q76QM06PS300R

Prepared for : Qmotions, Inc.
871 Marlborough Ave. #100, Riverside, CA 92507 USA

Prepared By : Audix Technology (Shenzhen) Co., Ltd.
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Report Number : ACS-F08409
Date of Test : Sep.21~22, 2008
Date of Report : Sep.27, 2008

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TEST REPORT CERTIFICATION

Applicant : Qmotions, Inc.
 Manufacturer : Berway Technology Ltd.
 EUT Description : Wireless Skateboard Controller for PS3
 FCC ID : Q76QM06PS300R
 (A) MODEL NO. : QM06PS300(Dongle)
 (B) SERIAL NO. : N/A
 (C) POWER SUPPLY : DC 5V
 (D) TEST VOLTAGE : DC 5V From PS3 AC 120V/60Hz

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 : Sep.21-22, 2008

Prepared by : YoYo Wang
YoYo Wang / Assistant

Reviewer : Jamy Yu
Jamy Yu / Senior Engineer

Approved & Authorized Signer :



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	PASS
Radiated Emission Test	FCC Part 15C: 15.209 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

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Product name	:	Wireless Skateboard Controller for PS3
Model Number	:	QM06PS300(Dongle)
FCC ID	:	Q76QM06PS300R
Operation frequency	:	2410MHz~2470MHz
Modulation	:	MSK
Power Supply	:	DC 5V From PS3 (The supply voltage was varied between 85% and 115% of the nominal rated (120V/60Hz) supply voltage. And all the emissions include fundamental emissions had no change. So only the nominal power supply test data were recorded.)
Applicant	:	Qmotions, Inc. 871 Marlborough Ave. #100, Riverside, CA 92507 USA
Manufacturer	:	Berway Technology Ltd. Unit 1301-03, 13/F., No.88 Kwai Cheong Road, Kwai Chung, N.T., H.K.
Date of Test	:	Sep.21~22, 2008
Date of Receipt	:	Sep.20, 2008
Sample Type	:	Prototype production

Note: This EUT has two parts, one is Skateboard, the other one is Dongle. We test "Dongle" in this report.

2.2. Tested Supporting System Details

2.2.1.TV

EMC CODE : ACS-EMC-TV01T
 M/N : 1419A
 Manufacturer : TCL
 Power cord : Unshielded,Undetachabled, 1.8m

2.2.2.PS3

Manufacturer : SONY
 M/N : CECHC04

2.3. 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

2.4. 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	3.86dB	Distance: 10m Polarize: V
		4.18dB	Distance: 10m Polarize: H
		4.02dB	Distance: 3m Polarize: V
		4.36dB	Distance: 3m Polarize: H

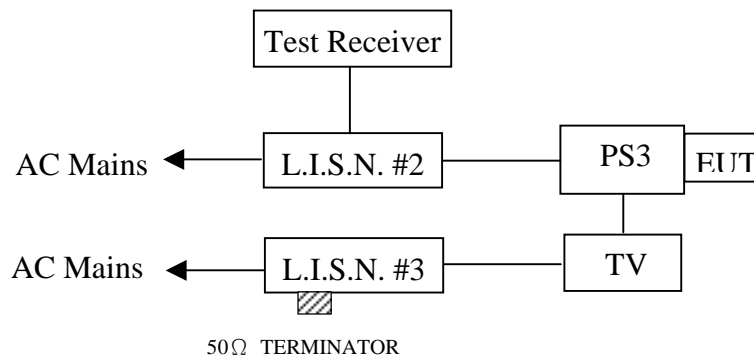
3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	844077/020	Mar.07, 08	1 Year
2.	L.I.S.N.#2	Kyoritsu	KNW-407	8-1636-1	May 10,08	1 Year
3.	L.I.S.N.#3	EMCO	3825/2	9006-1660	May 10,08	1 Year
4.	Terminator	Hubersuhner	50Ω	No. 1	May 10,08	1 Year
5.	RF Cable	Fujikura	3D-2W	LISN Cable 1#	Jul.08, 08	1/2 Year
6.	Coaxial Switch	Anritsu	MP59B	M55367	Jul.08, 08	1/2 Year
7.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100340	Jul.08, 08	1/2 Year

3.2. Block Diagram of Test Setup

3.2.1. Block diagram of connection between the EUT and simulators



(EUT: Wireless Skateboard Controller for PS3)

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. Wireless Skateboard Controller for PS3 (EUT)

Model Number : QM06PS300(Dongle)

Serial Number : N/A

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

3.5. Operating Condition of EUT

3.5.1. Setup the EUT as shown in Section 3.2..

3.5.2. Let the EUT work in test modes (Running Mode) and test it.

3.6. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via PS3 connected to the power mains through a line impedance stabilization network (L.I.S.N. 2#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#3). Power on the PS3 and let it work normally, we use a test software, let EUT working in test mode, then test it. Both sides of 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 C63.4: 2003 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS10) is set at 10kHz.

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

The test result are reported on Section 3.7.

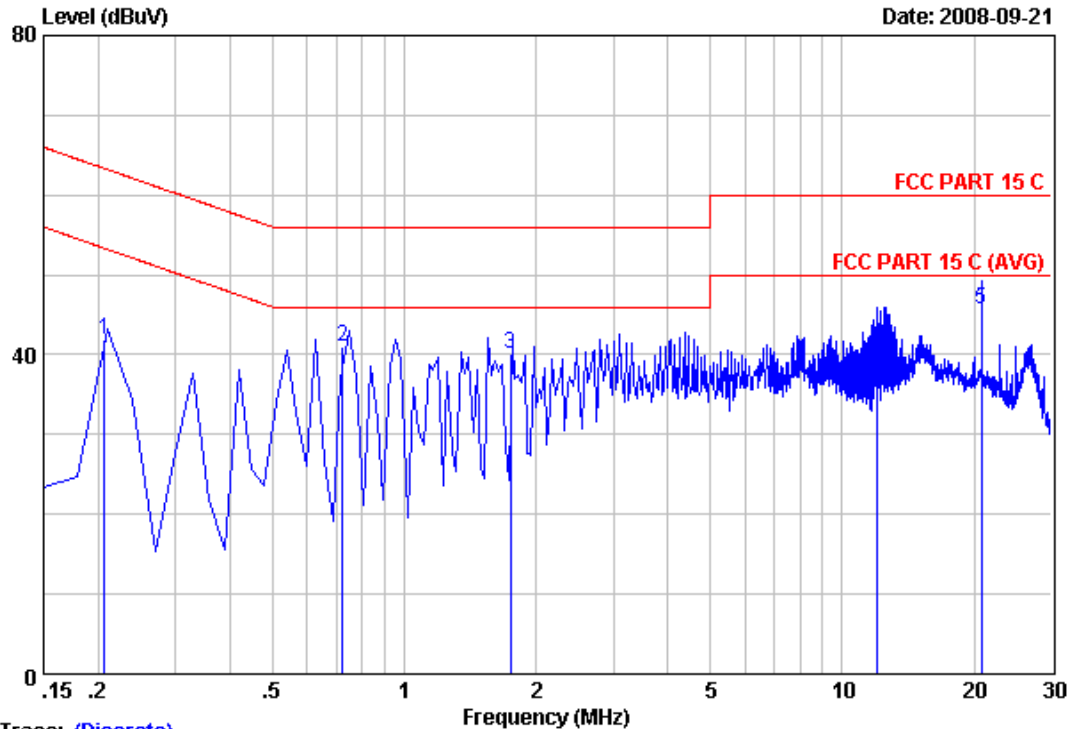
3.7. Power Line Conducted Emission Test Results

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



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Data: 2 File: D:\DATA\2008 Report\skateboard\ACS8QH180.EMI (2)



Trace: (Discrete)
 Site no : Audix No.1 Conduction Data no : 2
 Dis./Ant. : -- KNW407 1# VA LISN phase:
 Limit : FCC PART 15 C
 Env./Ins. : 29.5*C/55% ESHS 10 Engineer : LEO
 EUT : SKATEBOARD M/N: QM06PS300R
 Power Rating : DC 5V from PS3 AC 120V/60Hz
 Test Mode : RUNNING
 Memo :

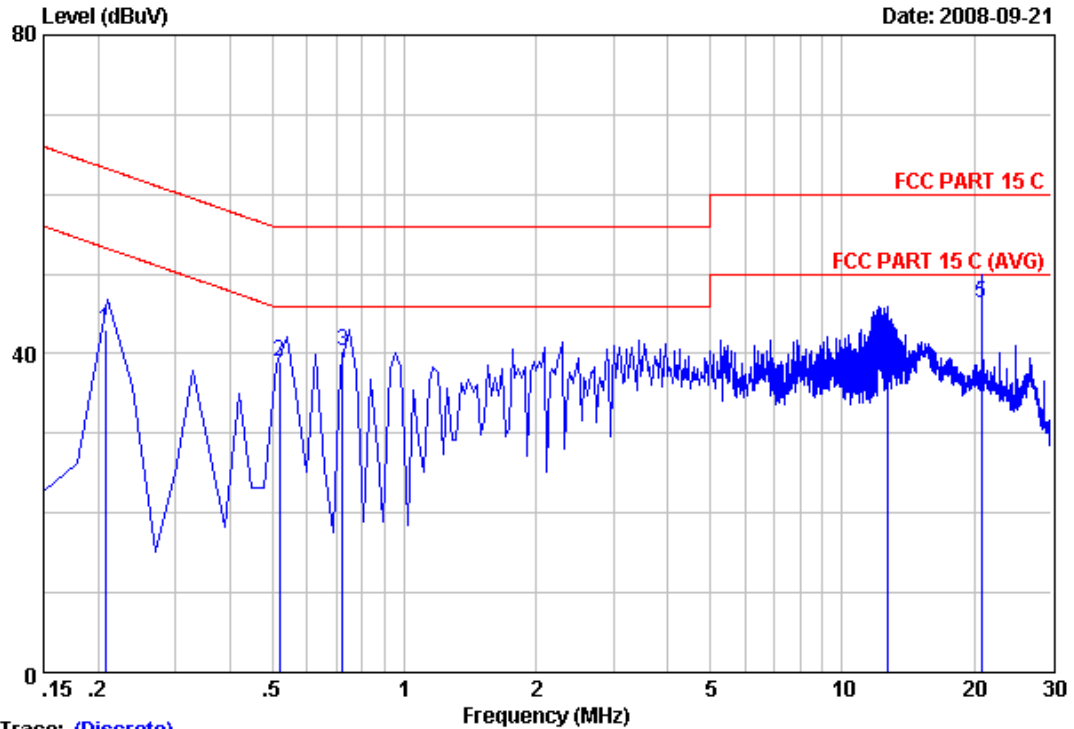
No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.21	0.30	10.15	31.50	41.95	63.32	21.37	QP
2	0.72	0.19	10.14	30.60	40.93	56.00	15.07	QP
3	1.75	0.10	10.15	29.80	40.05	56.00	15.95	QP
4	11.99	0.24	10.26	30.21	40.71	60.00	19.29	QP
5	20.83	0.45	10.38	34.80	45.63	60.00	14.37	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.



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Data: 1 File: D:\DATA\2008 Report\skateboard\ACS8QH180.EMI (2)



Trace: (Discrete)
 Site no :Audix No.1 Conduction Data no :1
 Dis./Ant. :-- KNW407 1# VB LISN phase:
 Limit :FCC PART 15 C
 Env./Ins. :29.5*C/55% ESHS 10 Engineer :LEO
 EUT :SKATEBOARD M/N:QMO6PS300R
 Power Rating :DC 5V from PS3 AC 120V/60Hz
 Test Mode :RUNNING
 Memo :

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.21	0.10	10.15	32.80	43.05	63.28	20.23	QP
2	0.52	0.19	10.14	28.60	38.93	56.00	17.07	QP
3	0.72	0.10	10.14	30.20	40.44	56.00	15.56	QP
4	12.72	0.19	10.27	30.40	40.86	60.00	19.14	QP
5	20.83	0.44	10.38	35.50	46.32	60.00	13.68	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.

4. RADIATED EMISSION TEST

4.1. Test Equipment

Frequency rang: 30~1000MHz

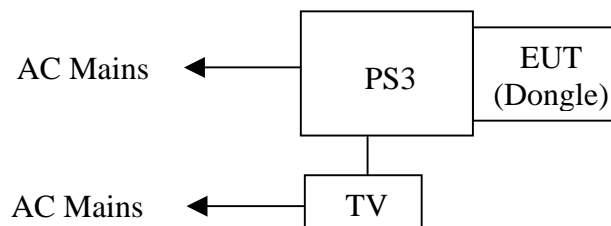
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Jun.09, 08	1/2 Year
2.	EMI Spectrum	Agilent	E7403A	MY42000106	May 10, 08	1 Year
3.	Test Receiver	Rohde & Schwarz	ESVS20	830350/005	May 10, 08	1 Year
4.	Amplifier	HP	8447D	2648A04738	Jul.08.08	1/2 Year
5.	Bilog Antenna	Schaffner	CBL6112D	25237	Feb.21, 08	1 Year
6.	RF Cable	JINGCHENG	KLMR400	3# Chamber No.1	Jul.08.08	1/2 Year
7.	RF Cable	JINGCHENG	JB Y400	3# Chamber No.2	Jul.08.08	1/2 Year
8.	RF Cable	JINGCHENG	JB Y400	3# Chamber No.3	Jul.08.08	1/2 Year
9.	RF Cable	JINGCHENG	JB Y400	3# Chamber No.4	Jul.08.08	1/2 Year
10.	Coaxial Switch	Anritsu	MP59B	M73989	Jul.08.08	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

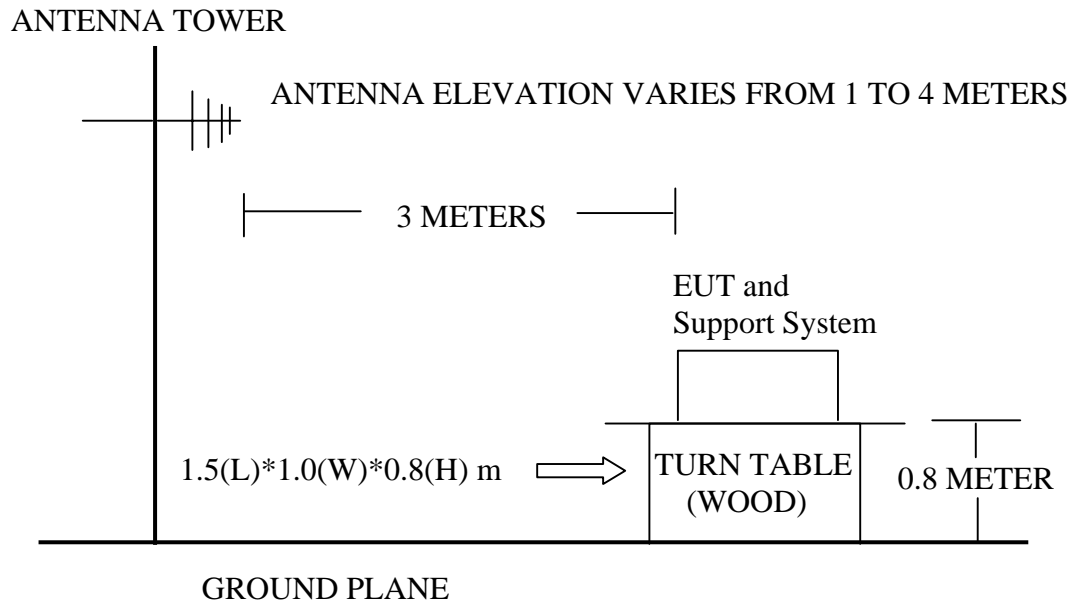
4.2. Block Diagram of Test Setup

4.2.1. Block Diagram of connection between EUT and simulators



(EUT: Wireless Skateboard Controller for PS3)

4.2.2. Anechoic Chamber Setup Diagram



4.3. Radiated Emission Limit Standard: FCC 15.209 and 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
Above 960MHz	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	
Field Strength of Fundamental emission for 2.4GHz-2.4835GHz	3	94.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average) 114.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak)	
Field Strength of Harmonics	3	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) 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.

4.4.1. Wireless Skateboard Controller for PS3 (EUT)

Model Number : QM06PS300(Dongle)

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,PK detector for peak emissions measurement above 1GHz.

This product is pulse modulated, pulse desensitization correction factor was used to determine the average level.

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

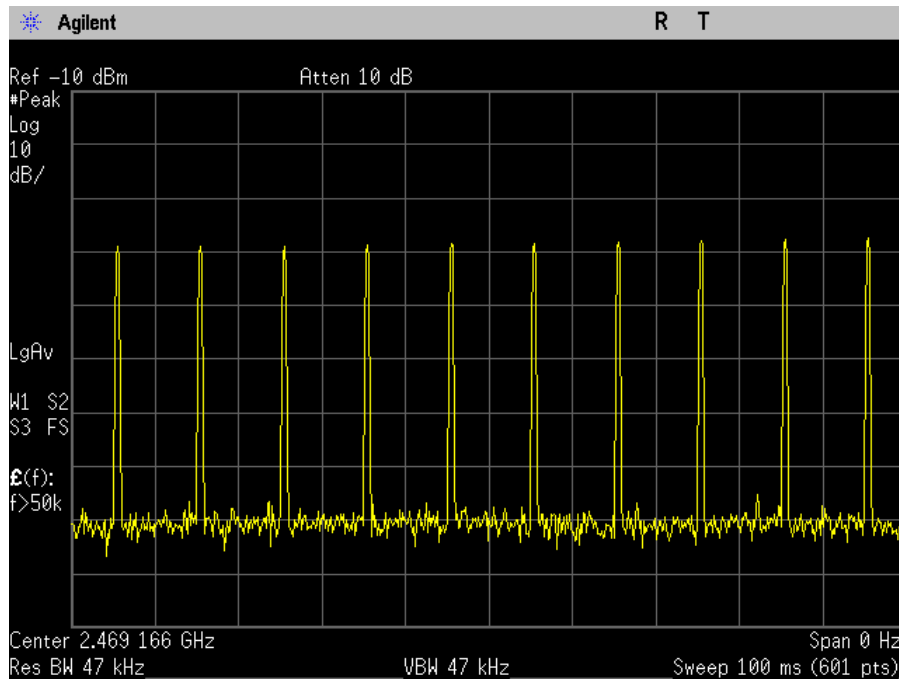
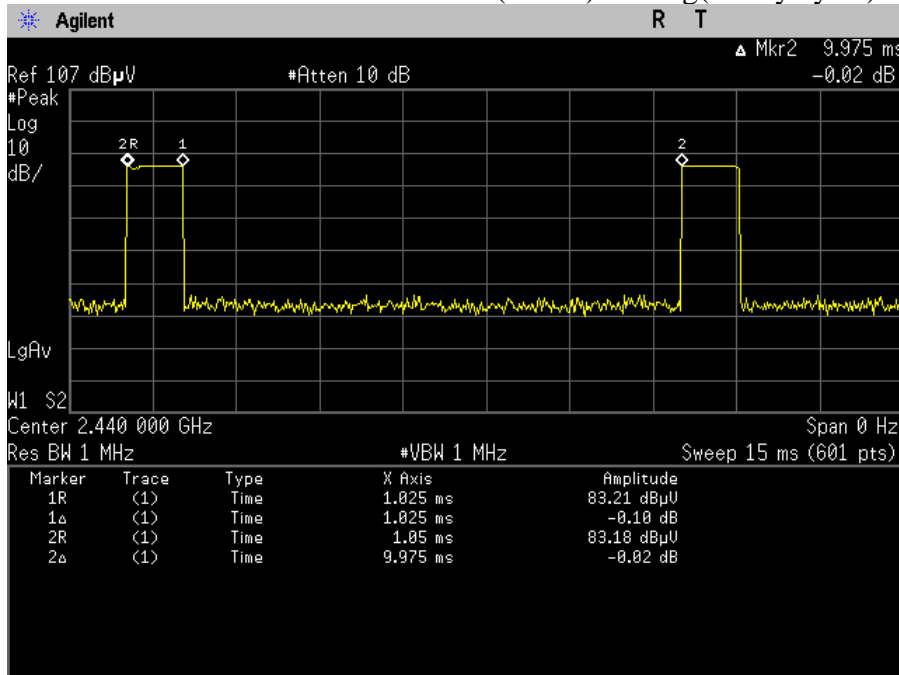
PASS.

All the emissions from 30MHz to 25GHz were comply with the 15.209 and 15.249 Limit.

Pulse desensitization correction factor:

Duty cycle = $(1.025/9.975) * 100\% = 10.27\%$

Pulse desensitization correction factor (PDCF) = $20 \log(1/\text{duty cycle}) = 19.76$

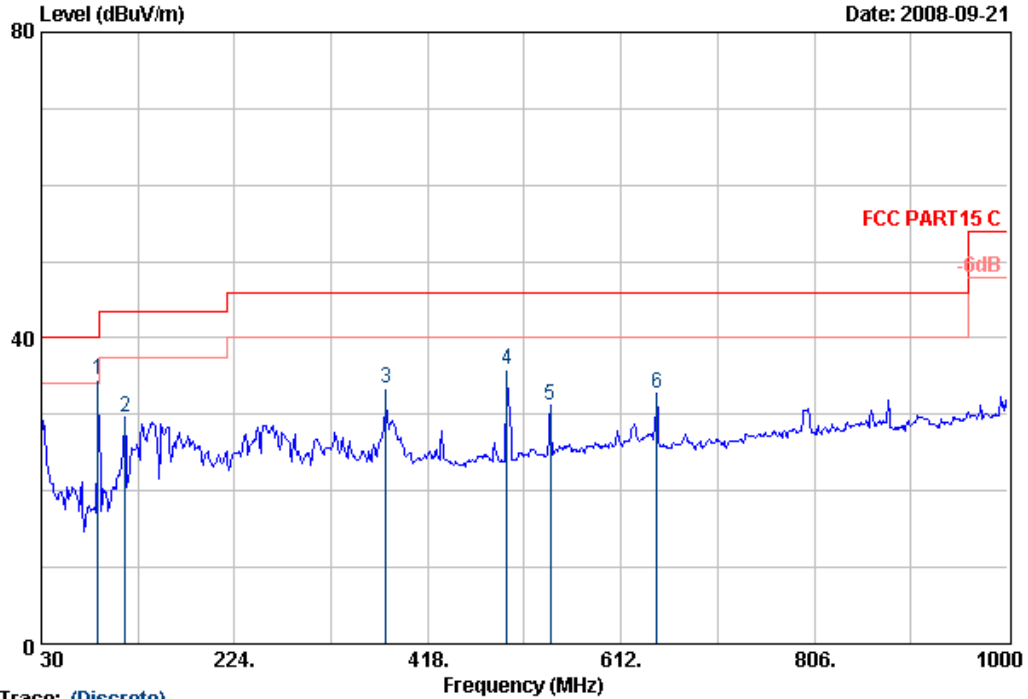




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Data: 1 File: D:\2008 Test Data\S\SKATEBOARD.EMI (4)

Date: 2008-09-21



Trace: (Discrete)

Site no. : 3# Chamber Radiation Data no. : 1
 Dis. / Ant. : 3m CBL6112D Ant. pol. : HORIZONTAL
 Limit : FCC PART15 C
 Env. / Ins. : 24*C/56% ESVS20 Engineer : Power
 EUT : Skateboard M/N:QMO6PS300R
 Power Rating : DC 5V from PS3 AC 120V/60Hz
 Test Mode : Tx Mode
 Memo :

	Ant.	Cable	Emission				Margin	Remark
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	(dB)		
1	6.49	1.01	27.10	34.60	40.00	5.40	QP	
2	10.83	1.06	17.71	29.60	43.50	13.90	QP	
3	13.51	1.78	18.13	33.42	46.00	12.58	QP	
4	15.63	2.04	18.28	35.95	46.00	10.05	QP	
5	16.22	2.09	12.89	31.20	46.00	14.80	QP	
6	17.25	2.20	13.24	32.69	46.00	13.31	QP	

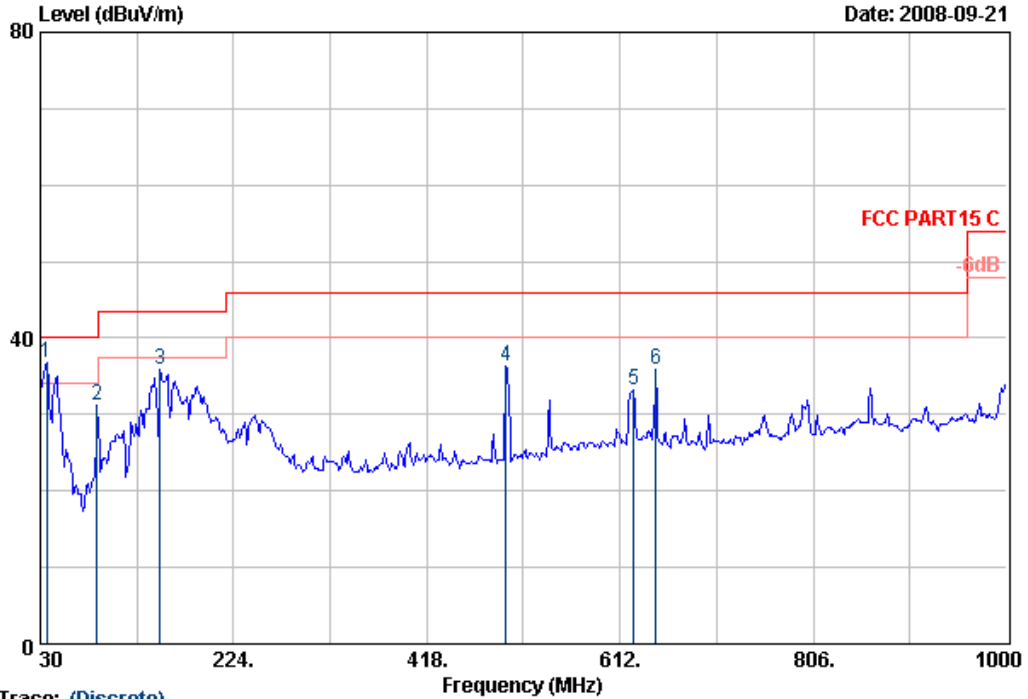
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 2 File: D:\2008 Test Data\S\SKATEBOARD.EMI (4)

Date: 2008-09-21



Trace: (Discrete)

Site no. : 3# Chamber Radiation Data no. : 2
 Dis. / Ant. : 3m CBL6112D Ant. pol. : VERTICAL
 Limit : FCC PART15 C
 Env. / Ins. : 24*C/56% ESVS20 Engineer : Power
 EUT : Skateboard M/N:QMO6PS300R
 Power Rating : DC 5V from PS3 AC 120V/60Hz
 Test Mode : Tx Mode
 Memo :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission				Remark
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	36.79	15.37	0.76	20.72	36.85	40.00	3.15	QP
2	87.23	6.49	1.01	23.77	31.27	40.00	8.73	QP
3	150.28	9.15	1.21	25.59	35.95	43.50	7.55	QP
4	497.54	15.63	2.04	18.56	36.23	46.00	9.77	QP
5	625.58	17.10	2.37	13.82	33.29	46.00	12.71	QP
6	647.89	17.25	2.20	16.38	35.83	46.00	10.17	QP

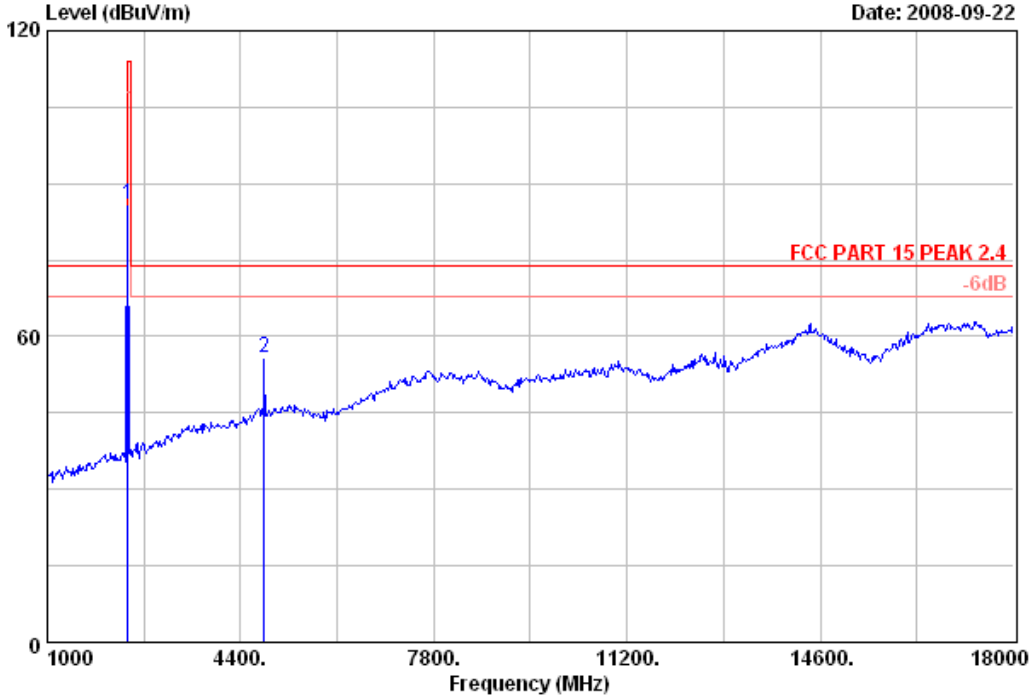
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 1 File: E:\2008 report data\B\Berway\ACS80H180.EMI (20)

Date: 2008-09-22



Site no. : 3# Chamber Data no. : 1
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Power
EUT : Skateboard M/N:QMO6PS300R
Power Rating: DC 5V from PS3 AC120V/60Hz
Test mode : Tx 2410MHz

	Ant. Freq. (MHz)	Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2410.00	28.48	6.73	35.18	85.80	85.83	114.00	28.17	Peak
2	4820.00	34.47	10.54	34.49	45.34	55.86	74.00	18.14	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.

Average emissions Level

Freq (MHz)	Ant. Plo.	Peak Level (dBuV/m)	PDCF (dB)	AV Level (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2410.00	H	85.83	19.76	66.07	94	27.93
4820.00	H	55.86	19.76	36.10	54	17.9

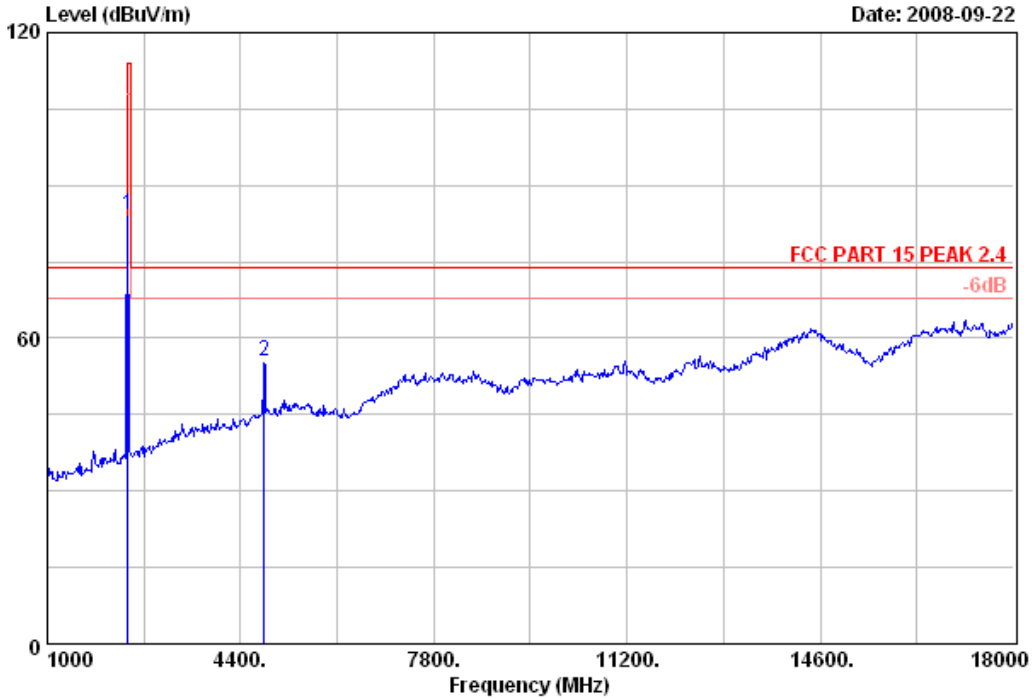
Note: AV Level= Peak Level – PDCF



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Data: 2 File: E:\2008 report data\B\Berway\ACS80H180.EMI (20)

Date: 2008-09-22



Site no. : 3# Chamber Data no. : 2
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Power
 EUT : Skateboard M/N:QMO6PS300R
 Power Rating: DC 5V from PS3 AC120V/60Hz
 Test mode : Tx 2410MHz

	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	28.48	6.73	35.18	84.24	84.27	114.00	29.73	Peak
2	34.47	10.54	34.49	45.08	55.60	74.00	18.40	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.

Average emissions Level

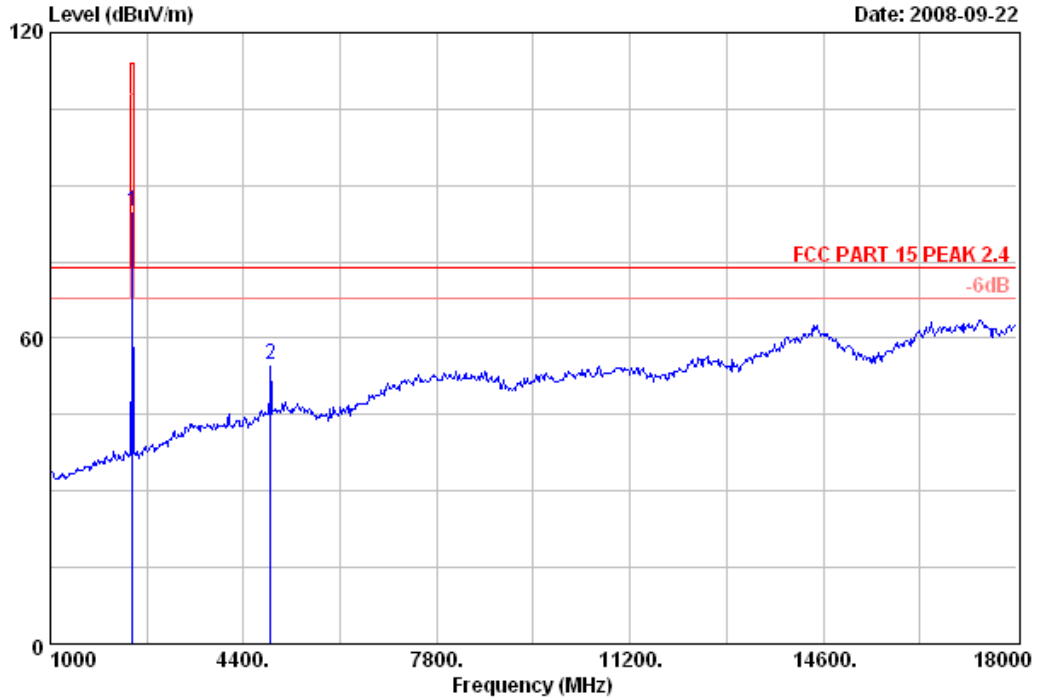
Freq (MHz)	Ant. Plo.	Peak Level (dBuV/m)	PDCF (dB)	AV Level (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2410.00	V	84.27	19.76	64.51	94	29.49
4820.00	V	55.60	19.76	35.84	54	18.16

Note: AV Level= Peak Level – PDCF



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Data: 3 File: E:\2008 report data\B\Berway\ACS80H180.EMI (20)



Site no. : 3# Chamber Data no. : 3
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Power
 EUT : Skateboard M/N:QMO6PS300R
 Power Rating: DC 5V from PS3 AC120V/60Hz
 Test mode : Tx 2440MHz

	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	28.53	6.80	35.17	84.88	85.04	114.00	28.96	Peak
2	34.78	10.56	34.48	44.02	54.88	74.00	19.12	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.

Average emissions Level

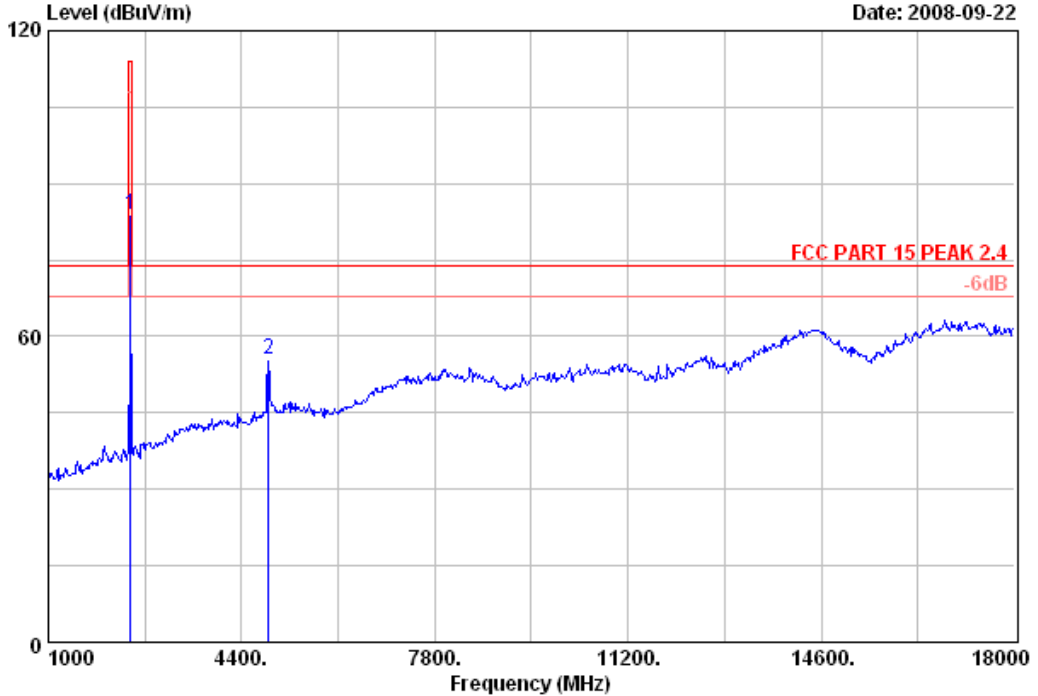
Freq (MHz)	Ant. Plo.	Peak Level (dBuV/m)	PDCF (dB)	AV Level (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2440.00	H	85.04	19.76	65.28	94	28.72
4880.00	H	54.88	19.76	35.12	54	18.88

Note: AV Level= Peak Level – PDCF



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Data: 4 File: E:\2008 report data\B\Berway\ACS8QH180.EMI (20) Date: 2008-09-22



Site no. : 3# Chamber Data no. : 4
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Power
EUT : Skateboard M/N:QMO6PS300R
Power Rating: DC 5V from PS3 AC120V/60Hz
Test mode : Tx 2440MHz

	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	28.53	6.80	35.17	83.60	83.76	114.00	30.24	Peak	
2	34.78	10.56	34.48	44.56	55.42	74.00	18.58	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.

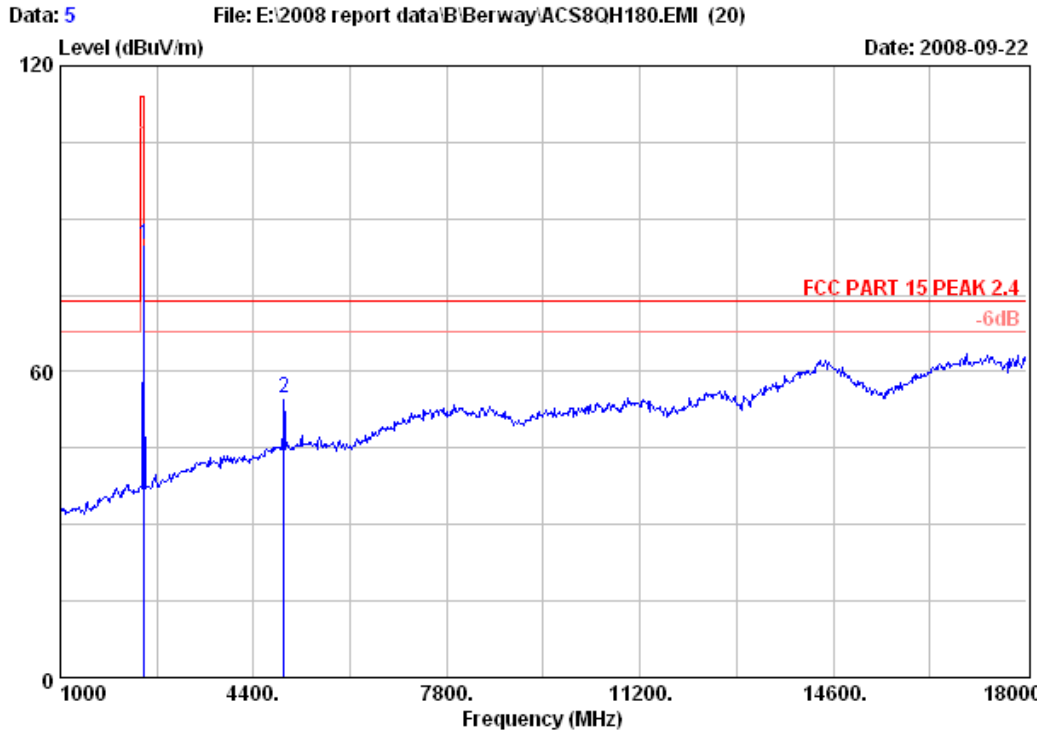
Average emissions Level

Freq (MHz)	Ant. Plo.	Peak Level (dBuV/m)	PDCF (dB)	AV Level (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2440.00	V	83.76	19.76	64	94	30
4880.00	V	55.42	19.76	35.66	54	18.34

Note: AV Level= Peak Level - PDCF



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Site no. : 3# Chamber Data no. : 5
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Power
EUT : Skateboard M/N:QMO6PS300R
Power Rating: DC 5V from PS3 AC120V/60Hz
Test mode : Tx 2469.2MHz

	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	2469.20	28.55	6.84	35.16	84.51	84.74	114.00	29.26	Peak
2	4938.40	35.19	10.58	34.46	43.35	54.66	74.00	19.34	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.

Average emissions Level

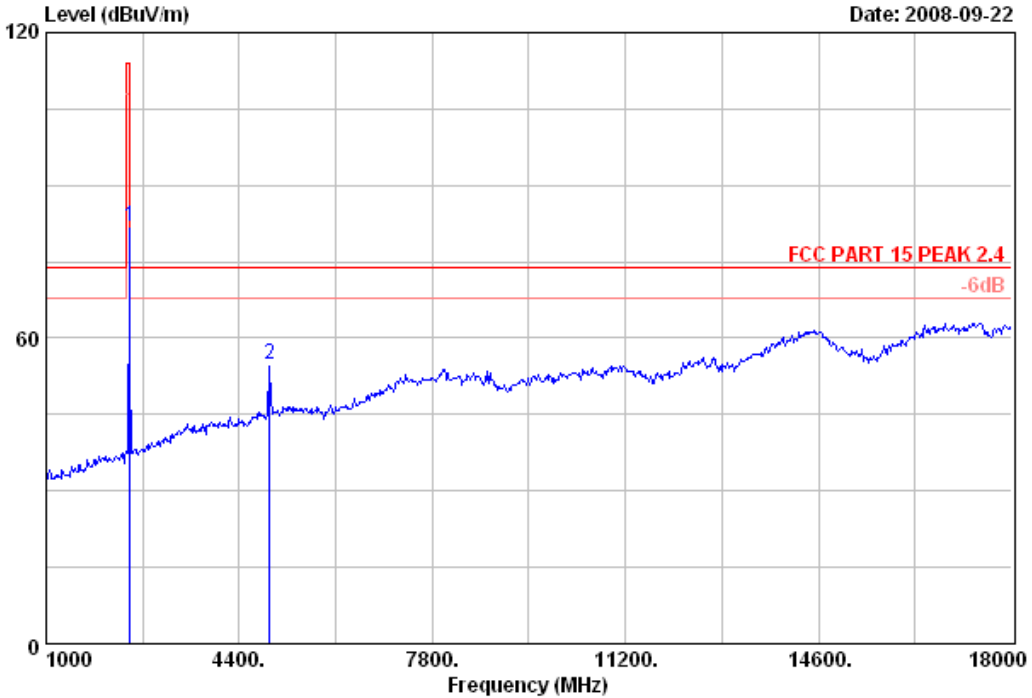
Freq (MHz)	Ant. Plo.	Peak Level (dBuV/m)	PDCF (dB)	AV Level (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2469.20	H	84.74	19.76	64.98	94	29.02
4938.40	H	54.66	19.76	34.9	54	19.1

Note: AV Level= Peak Level – PDCF



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Data: 6 File: E:\2008 report data\B\Berway\ACS8QH180.EMI (20) Date: 2008-09-22



Site no. : 3# Chamber Data no. : 6
Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Power
EUT : Skateboard M/N:QMO6PS300R
Power Rating: DC 5V from PS3 AC120V/60Hz
Test mode : Tx 2469.2MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1 2469.20	28.55	6.84	35.16	81.81	82.04	114.00	31.96	Peak
2 4938.40	35.19	10.58	34.46	43.48	54.79	74.00	19.21	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.

Average emissions Level

Freq (MHz)	Ant. Plo.	Peak Level (dBuV/m)	PDCF (dB)	AV Level (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2469.20	H	82.04	19.76	62.28	94	31.72
4938.40	H	54.79	19.76	35.03	54	18.97

Note: AV Level= Peak Level - PDCF

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, PK detector, Sweep=AUTO

5.4. Test Results

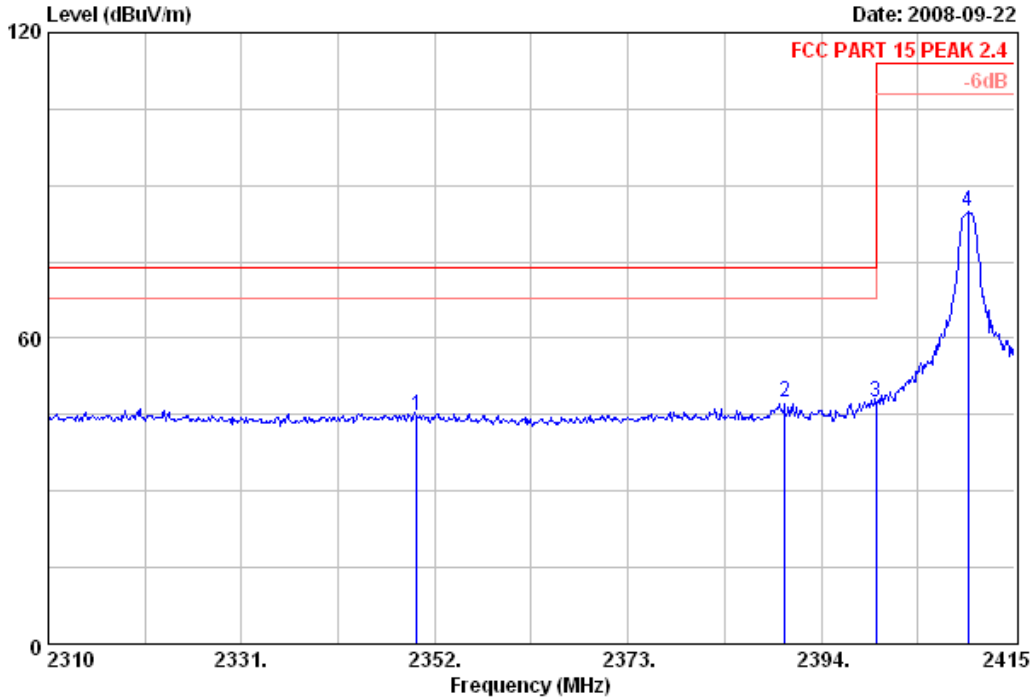
Pass (The testing data was attached in the next pages.)



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Data: 7 File: E:\2008 report data\B\Berway\ACS8QH180.EMI (20)

Date: 2008-09-22



Site no. : 3# Chamber Data no. : 7
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Power
 EUT : Skateboard M/N:QMO6PS300R
 Power Rating: DC 5V from PS3 AC120V/60Hz
 Test mode : Tx 2410MHz

	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	28.38	6.67	35.19	44.93	44.79	74.00	29.21	Peak	
2	28.46	6.71	35.18	47.36	47.35	74.00	26.65	Peak	
3	28.46	6.73	35.18	47.61	47.62	74.00	26.38	Peak	
4	28.48	6.73	35.18	84.73	84.76	114.00	29.24	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.

Average emissions Level

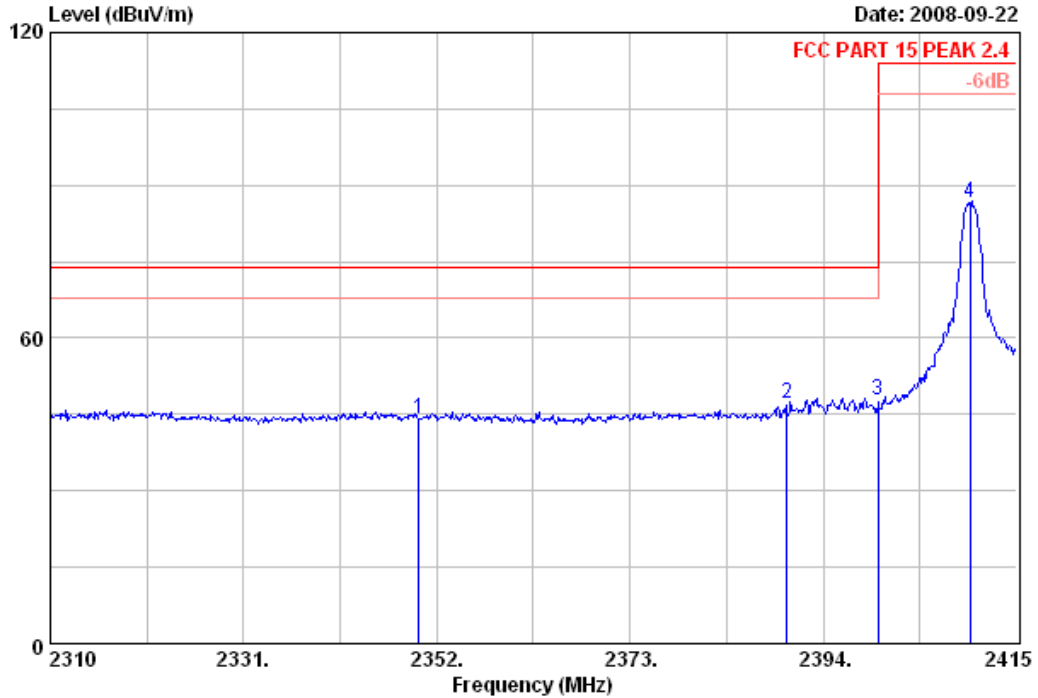
Freq (MHz)	Ant. Plo.	Peak Level (dBuV/m)	PDCF (dB)	AV Level (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2350.00	V	44.79	19.76	25.03	54	28.97
2390.00	V	47.35	19.76	27.59	54	26.41
2400.00	V	47.62	19.76	27.86	54	26.14

Note: AV Level= Peak Level – PDCF



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Data: 8 File: E:\2008 report data\B\Berway\ACS80H180.EMI (20)



Site no. : 3# Chamber Data no. : 8
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Power
 EUT : Skateboard M/N:QMO6PS300R
 Power Rating: DC 5V from PS3 AC120V/60Hz
 Test mode : Tx 2410MHz

	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	2350.00	28.38	6.67	35.19	44.22	44.08	74.00	29.92	Peak
2	2390.00	28.46	6.71	35.18	47.21	47.20	74.00	26.80	Peak
3	2400.00	28.46	6.73	35.18	47.69	47.70	74.00	26.30	Peak
4	2410.00	28.48	6.73	35.18	86.66	86.69	114.00	27.31	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.

Average emissions Level

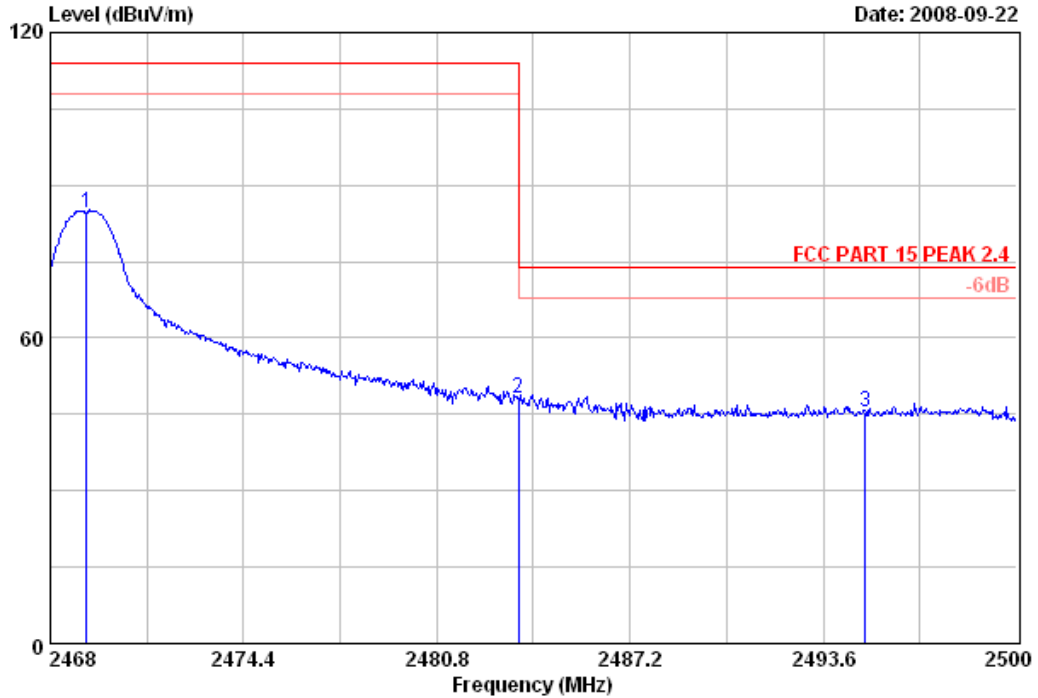
Freq (MHz)	Ant. Plo.	Peak Level (dBUV/m)	PDCF (dB)	AV Level (dBUV/m)	AV Limit (dBUV/m)	Margin (dB)
2350.00	H	44.08	19.76	24.32	54	29.68
2390.00	H	47.2	19.76	27.44	54	26.56
2400.00	H	47.7	19.76	27.94	54	26.06

Note: AV Level= Peak Level – PDCF



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Data: 9 File: E:\2008 report data\B\Berway\ACS80H180.EMI (20)



Site no. : 3# Chamber Data no. : 9
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : 23°C/54% Engineer : Power
 EUT : Skateboard M/N:QMO6PS300R
 Power Rating: DC 5V from PS3 AC120V/60Hz
 Test mode : Tx 2469.2MHz

	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	2469.20	28.55	6.84	35.16	84.49	84.72	114.00	29.28	Peak
2	2483.50	28.58	6.87	35.16	47.86	48.15	74.00	25.85	Peak
3	2495.00	28.60	6.91	35.15	44.97	45.33	74.00	28.67	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.

Average emissions Level

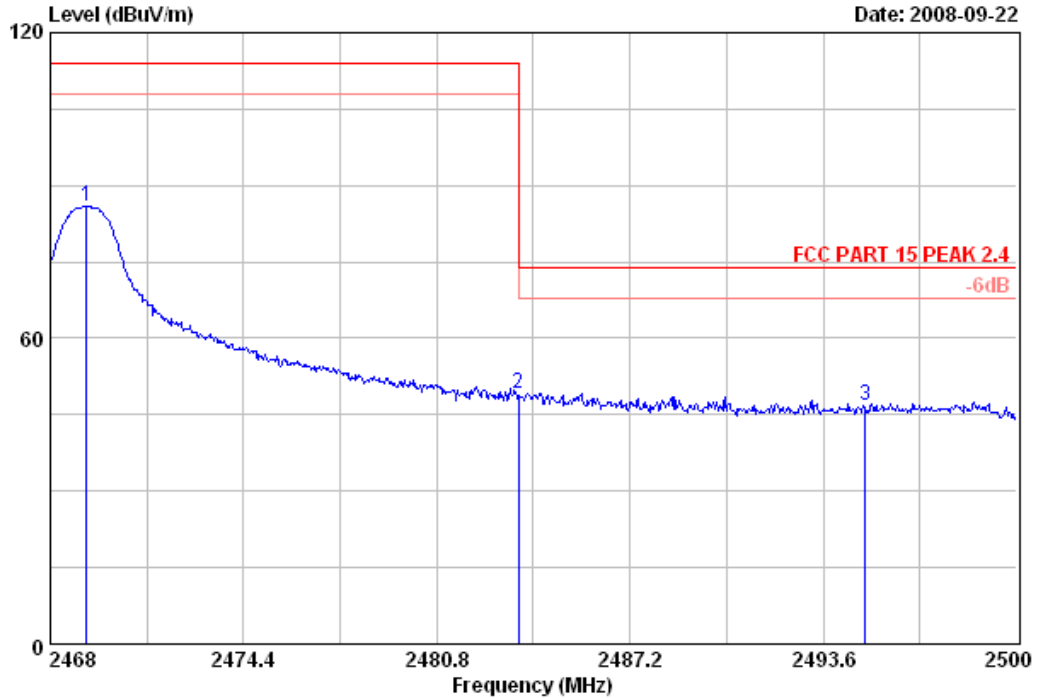
Freq (MHz)	Ant. Plo.	Peak Level (dBUV/m)	PDCF (dB)	AV Level (dBUV/m)	AV Limit (dBUV/m)	Margin (dB)
2483.50	V	48.15	19.76	28.39	54	25.61
2495.00	V	45.33	19.76	25.57	54	28.43

Note: AV Level= Peak Level - PDCF



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Data: 10 File: E:\2008 report data\B\Berway\ACS80H180.EMI (20)



Site no. : 3# Chamber Data no. : 10
Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Power
EUT : Skateboard M/N:QMO6PS300R
Power Rating: DC 5V from PS3 AC120V/60Hz
Test mode : Tx 2469.2MHz

	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	2469.20	28.55	6.84	35.16	85.73	85.96	114.00	28.04	Peak
2	2483.50	28.58	6.87	35.16	48.89	49.18	74.00	24.82	Peak
3	2495.00	28.60	6.91	35.15	46.44	46.80	74.00	27.20	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.

Average emissions Level

Freq (MHz)	Ant. Plo.	Peak Level (dBuV/m)	PDCF (dB)	AV Level (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2483.50	H	49.18	19.76	29.42	54	24.58
2495.00	H	46.8	19.76	27.04	54	26.96

Note: AV Level= Peak Level - PDCF

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	Horn Antenna	EMCO	3115	9607-4877	May,27, 08	1.5 Year
4	RF Cable	Hubersuhner	SUCOFLEX 102	2861812	May,28, 08	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX 102	28862212	May,28, 08	1 Year

6.2. Test Information

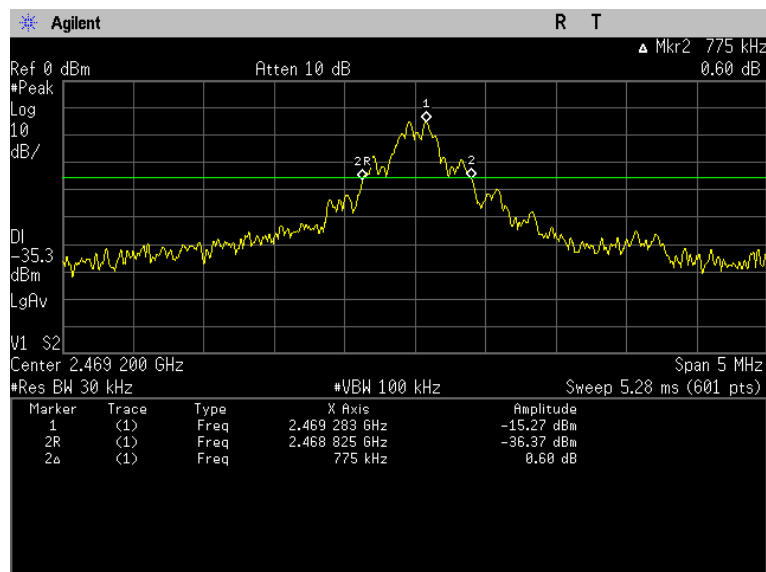
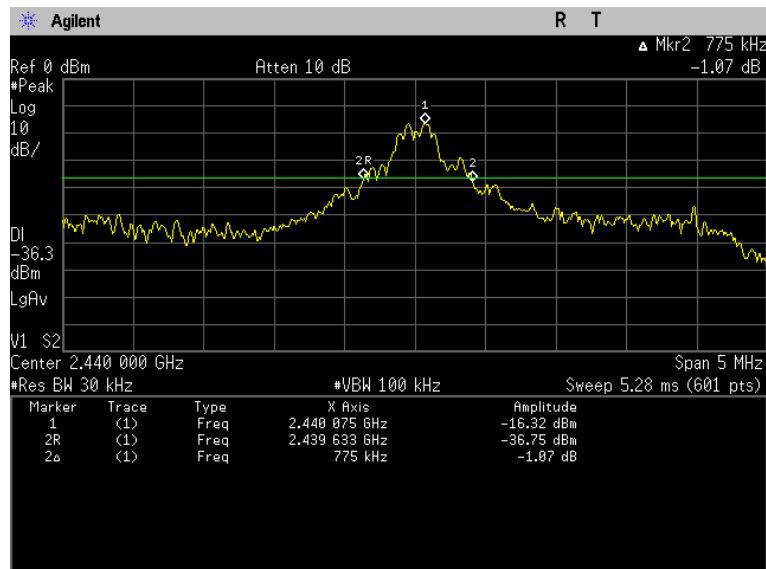
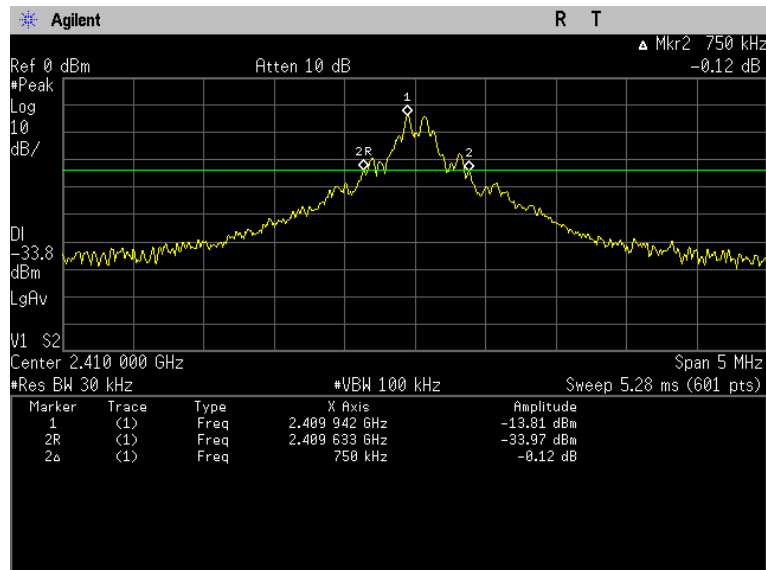
EUT:	Wireless Skateboard Controller for PS3
M/N:	QM06PS300(Dongle)
Test Date:	Sep.22, 2008
Ambient Temperature:	23°C
Relative Humidity:	54%
Test standard:	FCC PART 15C: 15.215
Test mode:	TX Mode
Test Frequency:	Low: 2410MHz Mid: 2440MHz High: 2470MHz
Test By:	Power feng

6.3. 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.

6.4. Test Results

Pass



7. DEVIATION TO TEST SPECIFICATIONS

[NONE]